COUNTY OF ESSEX
COUNTY PURCHASING DEPARTMENT
Essex County Government Center
P.O. Box 217
7551 Court Street
Elizabethtown, New York 12932

Amendment No. 2

Reconstruction/Rehabilitation of Old Military Road (CR 35) – Phase I
Village of Lake Placid and Town of North Elba
Essex County, New York
P.I.N. 1754.96

To ALL HOLDERS OF BIDDING DOCUMENTS:

This Addendum, issued to bid document holders of record, indicates changes to the bid documents for P.I.N. 1754.96 - Reconstruction/Rehabilitation of Old Military Road (CR 35). All changes described herein shall be incorporated into the Contractor's bid proposal. This amendment is hereby made part of the Contract Documents. All other requirements of the Contract Documents remain in full force and effect.

CONTRACT DOCUMENTS AND SPECIFICATIONS BOOK

1. The following Item has been added to the contract:

Item 207.22 M – Geotextile Drainage

2. The following Item has been deleted from the contract:

Item 210.481301 M – Removal and Disposal of Miscellaneous ACM (BV 14).

3. The Estimate of Quantities for the Pay Items listed below is hereby revised.

ITEM NUMBER	PAGE NUMBER	OLD EST. QUANT.	NEW EST. QUANT.
207.20	121	20,518	2,648
207.22	-	0	17,000
210.481301	125	NEC	Deleted
663.2001	191	600	100
663.2002	193	3,720	650
697.03	195A1	346,398	344,386

THE BIDDER IS TO INSERT AND RETURN THE ATTACHED PAGES 121A1, 123A1, 125A1, 191A1, 193A1 AND 195A2 WITH YOUR BID.

If the bidder fails to make the above Unit Price and Estimate of Quantities changes, the County will do so and adjust the AMOUNT BID and the TOTAL BID accordingly.

CONTRACT PLANS

4. On Sheet No. 4, Drawing EQ-1 and on Sheet 8, Drawing EQ-8 the bidder is to cross out and revise the Quantities for the following Items.

Note: Item 207.22 M has been added to the contract.
Item 210.481301 M has been deleted from the contract

ITEM NUMBER	UNIT OF PAYMENT	TOTAL ESTIMATED QUANTITY EXISTING	NEW	HIGHWAY QUANT.	BRIDGE QUANT.
207.20	SQM	20518	2648	1947	701
207.22	SQM	0	17000	17000	0
210.481301	LS	NEC	0	0	0
663.2001	KG	600	100	100	0
663.2002	KG	3720	650	650	0
697.03	DC	346398	344386	292728.10	51657.90

5. On Sheet No.'s 12 and 13, Drawings TS-4 and TS-5 change all occurrences on these Drawings of Item 207.20 M – Geotextile Bedding to Item 207.22 M – Geotextile Drainage.

6. On Sheet No. 14, Drawing GN-1 add the following Notes:

GEOTEXTILE MATERIAL CLASS
Item 207.20 M – Class 2A
Item 207.22 M – Class 2B

7. ITEM 664.9408 08 – PVC SEWER PIPE & FITTINGS 8NPS (GRAVITY)
This Item is to be used at various new storm sewer crossings as directed, AOBE, between Sta. 4+370 to 4+720.

8. On Sheet No.'s 37 and 38, Drawings MTD-7 and MTD-8 change all occurrences on these Drawings of Item 207.20 M – Geotextile Bedding to Item 207.22 M – Geotextile Drainage.

9. On Sheet No.'s 46 to 54, Drawings DRT-1 to DRT-9 change all occurrences on these Drawings of Item 207.20 M – Geotextile Bedding to Item 207.22 M – Geotextile Drainage.

10. On Sheet No. 58, Drawing ARCH-2 of the Contract Plans, add the following Note as Note No. 11 under ARCHAEOLOGICAL EXCAVATION –SUGGESTED SEQUENCE OF WORK:

Note 11. The contractor shall provide and maintain all traffic control devices, excavation, trench box, backfill, subbase, and any other items necessary for the archaeologist to complete the work. Please note; the archaeologist will be provided by Essex County.

11. On Sheet No. 87, Drawing GP-15 of the Contract Plans, revise the Item Number for the temporary concrete barrier at the Historic Highway Excavation Pit, Site B from Item 619.1701M to Item 619.1702M.

12. On Sheet No. 158, Drawing WA-7 of the Contract Plans, make the following revisions:

REFER TO SECTION A-A
As shown 24 NPS OD STEEL CASING
Change to: 24NPS OD STEEL AND/OR 36 NPS OD STEEL CASING

REFER TO TITLE OF WATER MAIN TRENCHLESS INSTALLATION SECTION
As shown: Item 650.1024M
Change to: Item 650.1024 and Item 650.2136M

REFER TO NOTES TOP RIGHT OF SHEET:
Revise Note 2: AS READS ….UNDER IITEM 650.1024M" TO READ ….UNDER ITEM 650.1204M AND ITEM 650.2136M
Delete Note 4.

13. On Sheet No. 168, Drawing ST-3 of the Contract Plans, add the following Note as Note No. 4 under REINFORCEMENT NOTES:

Note 4: The bar reinforcement for the structural slab, safety walk, sidewalk, approach slab, wingwalls shall be paid for as shown in the contract documents under Items 556.0201 or 556.0202.

14. On Sheet No. 170, Drawing ST-5 and as shown in Amendment No. 1 the bidder is to cross out and revise the Quantities for the following Items.

Item 210.481301 – Removal and Disposal of Miscellaneous ACM has been deleted from the contract.

ITEM NUMBER	UNIT OF PAYMENT	BRIDGE ESTIMATED QUANTITY EXISTING	NEW
210.481301	LS	NEC	ITEM DELETED
697.03	DC	51959.70	51,657.90

PLEASE BE GOVERNED ACCORDINGLY WHEN SUBMITTING BIDS

SECTION 00370-4
BID
RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
206.05	8	TEST PIT EXCAVATION FOR …… ……EACH				
207.20	2,648	GEOTEXILE BEDDING FOR …… ……PER SQUARE METER				
207.22	17,000	GEOTEXILE DRAINAGE FOR …… ……PER SQUARE METER				
207.23	60	GEOTEXTILE SLOPE PROTECTION FOR …… ……PER SQUARE METER				
207.27	225	PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN FOR …… ……PER SQUARE METER				

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BID
RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
209.1003	22,000	SEED AND MULCH - TEMPORARY FOR …… ……PER SQUARE METER				
209.110102	110	CHECK DAM (DITCH BOTTOM WIDTH > 1.0 TO 2.0 M), STONE-TEMPORARY FOR …… ……EACH				
209.13	2,540	SILT FENCE-TEMPORARY FOR …… ……PER METER				
209.140201	1	SEDIMENT TRAP, SAND BAG - TEMPORARY FOR …… ……EACH				
209.140202	1	SEDIMENT TRAP, SAND BAG - TEMPORARY FOR …… ……EACH				

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RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
209.1501	120	TURBIDITY CURTAIN FOR …… ……PER METER				
209.1702	56	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BEG - TEMPORARY FOR …… ……PER CUBIC METER				
209.200201	5,000	ROLLED EROSION CONTROL PRODUCT, CLASS III TYPE B, PERMANENT FOR …… ……PER SQUARE METER				
209.22	490	CONSTRUCTION ENTRANCE FOR …… ……PER SQUARE METER				
304.12	10,750	SUBBASE COURSE, TYPE 2 FOR …… ……PER CUBIC METER				

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RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
663.1301	1	HYDRANT FOR …… ……EACH				
663.1302	1	HYDRANT FOR …… ……EACH				
663.1303	1	HYDRANT FOR …… ……EACH				
663.1304	1	HYDRANT FOR …… ……EACH				
663.2001	100	IRON WATER MAIN FITTINGS (3 NPS - 8 NPS) FOR …… ……PER KILOGRAM				

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SECTION 00370-4
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RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
663.2002	650	IRON WATER MAIN FITTINGS (10 NPS - 16 NPS) FOR …… ……PER KILOGRAM				
663.2504	20	WATER SERVICE CONNECTION, 1 NPS FOR …… ……EACH				
663.33	18	ADJUST EXISTING VALVE BOX ELEVATION FOR …… ……EACH				
663.34	2	ADJUST EXISTING HYDRANT ELEVATION FOR …… ……EACH				
663.35	5	ADJUST EXISTING CURB BOX ELEVATION FOR …… ……EACH				

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SECTION 00370-4
BID
RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
663.40	2	DISCONNECT AND CAP EXISTING WATER MAIN FOR …… ……EACH				
663.4112	50	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 12 NPS FOR …… ……PER METER				
663.46	3	REMOVE AND STORE EXISTING HYDRANT FOR …… ……EACH				
664.9408 08	50	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 8 NPS (GRAVITY) FOR …… ……PER METER				
697.03	344,386	FIELD CHANGE PAYMENT FOR …… ……PER DOLLARS CENTS	$1	00	$344,386	00

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COUNTY OF ESSEX
COUNTY PURCHASING DEPARTMENT
Essex County Government Center
P.O. Box 217
7551 Court Street
Elizabethtown, New York 12932

Amendment No. 1

Reconstruction/Rehabilitation of Old Military Road (CR 35) – Phase I
Village of Lake Placid and Town of North Elba
Essex County, New York
P.I.N. 1754.96

To ALL HOLDERS OF BIDDING DOCUMENTS:

This Addendum, issued to bid document holders of record, indicates changes to the bid documents for P.I.N. 1754.96 - Reconstruction/Rehabilitation of Old Military Road (CR 35). All changes described herein shall be incorporated into the Contractor's bid proposal. This amendment is hereby made part of the Contract Documents. All other requirements of the Contract Documents remain in full force and effect.

CONTRACT DOCUMENTS AND SPECIFICATIONS BOOK

1. The letting (bid opening) for this contract has been rescheduled for **April 17, 2012**.

2. Bidders are authorized to change Page 7 and Page 17 of the Contract Documents and Specifications to read; on Page 7 "Sealed bids will be received at the Office of the Purchasing Agent, County Complex, 7551 Court Street, Elizabethtown, New York until **April 17, 2012** at 2:00 P.M. at which time bids will be publicly opened and read aloud".

On Page 17 Letting (Bid Date): **April 17, 2012**

3. On Page 83 of the Contract Documents and Specifications, Section 00160 Special Notes, **OFF SITE DETOUR** under Item No.1 add the following between the first and second sentence.

The Contractor is complete the Archaeological Investigation at Sta. 4+150 prior to May 25, 2012 utilizing a short off site detour as shown on Sheets 57 and 58 of the Contract Plans. The Contractor has the option of opening the off site detour for the "Ricky Hill" work on August 15, 2012 and have the work completed no later than October 1, 2012. The Contractor is cautioned that no work shall be done on "Ricky Hill" in the area of the Archeological Site Sta.2+710, until the Archaeological work is completed.

4. The Unit Price for the Pay Items listed below is hereby revised.

ITEM NUMBER	PAGE NUMBER	OLD UNIT PRICE	NEW UNIT PRICE	AMOUNT BID
402.011912	127	0	$65.00	$21,580.00
402.126212	127	0	$65.00	$9,555.00
402.196912	129	0	$65.00	$11,895.00
402.376912	129	0	$65.00	$23,400.00
608.020112	163	0	$65.00	$1,300.00

5. The Estimate of Quantities for the Pay Items listed below is hereby revised.

ITEM NUMBER	PAGE NUMBER	OLD EST. QUANT.	NEW EST. QUANT.	AMOUNT BID
697.03	195	343,258	346,398	$346,398.00
698.04	197	100	40,000	$40,000.00
698.05	197	100	23,000	$23,000.00

THE BIDDER IS TO INSERT AND RETURN THE ATTACHED PAGES 127A1, 129A1,163A1, 195A1, AND 197A1WITH YOUR BID.

If the bidder fails to make the above Unit Price and Estimate of Quantities changes, the County will do so and adjust the AMOUNT BID and the TOTAL BID accordingly.

CONTRACT PLANS

5. On Sheet No. 8, Drawing EQ-5 the bidder is to cross out and revise the Quantities for the following Items.

ITEM NUMBER	UNIT OF PAYMENT	TOTAL ESTIMATED QUANTITY		HIGHWAY QUANT.	BRIDGE QUANT.
		EXISTING	NEW		
697.03	DC	343258	346398	294438.30	51959.70
698.04	DC	100	40000	40000	0
698.05	DC	100	23000	19550	3450

6. On Sheet No. 15, Drawing TCP-1 of the Contract Plans, add the following after Note 2 under **Old Military Road Detour**

The Contractor is complete the Archaeological Investigation at Sta. 4+150 prior to May 25, 2012 utilizing a short off site detour as shown on Sheets 57 and 58 of the Contract Plans. The Contractor has the option of opening the off site detour for the “Ricky Hill” work on August 15, 2012 and have the work completed no later than October 1, 2012.

The Contractor is cautioned that no work shall be done on “Ricky Hill” in the area of the Archeological Site Sta.2+710, until the Archaeological work is completed.

7. On Sheet No. 170, Drawing ST-5 the bidder is to cross out and revise the Quantities for the following Items.

ITEM NUMBER	UNIT OF PAYMENT	BRIDGE ESTIMATED QUANTITY EXISTING	NEW
697.03	DC	51488.70	51959.70
698.05	DC	100	3450

PLEASE BE GOVERNED ACCORDINGLY WHEN SUBMITTING BIDS

SECTION 00370-4
BID
RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
402.011902	6,625	TYPE 2 F9, ASPHALT-TREATED PERMEABLE BASE COURSE FOR …… ……PER METRIC TON				
402.011912	332	PLANT PRODUCTION ADJUSTMENT TO 402.011902 FOR …… ……PER QUALITY UNIT	$65	00	$21,580	00
402.126202	2,950	12.5MM F2 TOP COURSE HMA, 60 SERIES COMPACTION FOR …… ……PER METRIC TON				
402.126212	147	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202 FOR …… ……PER QUALITY UNIT	$65	00	$9,555	00
402.196902	3,675	19MM F9 BINDER COURSE HMA, 60 SERIES COMPACTION FOR …… ……PER METRIC TON				

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RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
402.196912	183	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902 FOR …… ……PER QUALITY UNIT	$65	00	$11,895	00
402.376902	7,210	37.5MM F9 BASE COURSE HMA, 60 SERIES COMPACTION FOR …… ……PER METRIC TON				
402.376912	360	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902 FOR …… ……PER QUALITY UNIT	$65	00	$23,400	00
407.0101	15,650	TACK COAT FOR …… ……PER LITER				
520.5014 08	1,025	SAW CUTTING, ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OR ASPHALT OVERLAY ON CONCRETE FOR …… ……PER METER				

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BID
RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
608.020112	20	PLANT PRODUCTION QUALITY ADJUSTMENT TO 608.020102 FOR …… ……PER QUALITY UNIT	$65	00	$1,300	00
608.21	9	EMBEDDED DETECTABLE WARNING UNITS FOR …… ……PER SQUARE METER				
608.9401 07	156	IMPRINTING AND COLORING OF ASPHALT CONCRET PAVEMENT FOR …… ……PER SQUARE METER				
609.0201	580	STONE CURB, GRANITE, (TYPE A) FOR …… ……PER METER				
609.0209 01	70	GRANITE CURB, TYPE T100 FOR …… ……PER METER				

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BID
RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
663.40	2	DISCONNECT AND CAP EXISTING WATER MAIN FOR …… ……EACH				
663.4112	50	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 12 NPS FOR …… ……PER METER				
663.46	3	REMOVE AND STORE EXISTING HYDRANT FOR …… ……EACH				
664.9408 08	50	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 8 NPS (GRAVITY) FOR …… ……PER METER				
697.03	346,398	FIELD CHANGE PAYMENT FOR …… ……PER DOLLARS CENTS	$1	00	$346,398	00

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RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
698.04	40,000	ASPHALT PRICE ADJUSTMENT FOR …… ……PER DOLLARS CENTS	$1	00	$40,000	00
698.05	23,000	FUEL PRICE ADJUSTMENT FOR …… ……PER DOLLARS CENTS	$1	00	$23,000	00
699.040001	NEC	MOBILIZATION (NO MORE THEN 4% OF SUBTOTAL AMOUNT) FOR …… ……PER LUMP SUM				

TOTAL PRICE BID IN WORDS	TOTAL AMOUNT
	$_____

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CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

PIN 1754.96

RECONSTRUCTION/REHABILITATION OF OLD MILITARY ROAD (CR 35) – PHASE I

VILLAGE OF LAKE PLACID AND TOWN OF NORTH ELBA ESSEX COUNTY, NEW YORK

FEBRUARY 2012

PREPARED BY:
FOIT-ALBERT ASSOCIATES, P.C.
HANOVER SQUARE
435 NEW KARNER ROAD
ALBANY, NEW YORK 12205

STATE OF NEW YORK
WARREN T. SHAW
077011
LICENSED PROFESSIONAL ENGINEER

NO ALTERNATION PERMITTED HEREIN EXCEPT
AS PROVIDED UNDER SECTION 7209 SUBDIVISION
2 OF THE NEW YORK STATE EDUCATION LAW.

CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

PIN 1754.96

RECONSTRUCTION/REHABILITATION OF OLD MILITARY ROAD (CR 35) – PHASE I

VILLAGE OF LAKE PLACID AND TOWN OF NORTH ELBA ESSEX COUNTY, NEW YORK

FEBRUARY 2012

PREPARED BY:
FOIT-ALBERT ASSOCIATES, P.C.
HANOVER SQUARE
435 NEW KARNER ROAD
ALBANY, NEW YORK 12205

NO ALTERNATION PERMITTED HEREIN EXCEPT
AS PROVIDED UNDER SECTION 7209 SUBDIVISION
2 OF THE NEW YORK STATE EDUCATION LAW.

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for

RECONSTRUCTION/REHABILITATION OF OLD MILITARY ROAD (CR 35) – PHASE 1

PIN 1754.96

VILLAGE OF LAKE PLACID AND TOWN OF NORTH ELBA
ESSEX COUNTY, NEW YORK

ADDENDA, if any, as identified in Section 00100

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SECTION 00050 QUANTITIES FOR CANVASS OF BIDS

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-.01 Location of Work
-.02 Description of the Work
-.03 Commencement and Completion of the Work
-.04 Collateral Work and Conditions of Work
-.05 Receipt and Opening of Bids
-.06 Informalities, Waivers and Withdrawals
-.07 Bid Preparation
-.08 Addenda and Interpretations
-.09 Qualifications of Bidders
-.10 Obligations of Bidders
-.11 Bid Security
-.12 Liquidated Damages for Failure to Execute Contract
-.13 Discrepancy in Bids
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-.02 Posting Minimum Wage Rates & Keeping Records
-.03 Non-Discrimination and Labor Practices
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-.03 Non-Collusive Bidding Certification
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-.07 Requirements Regarding Histoplasmosis
-.08 Insurance
-.09 Estimated Quantities
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-.12 Laws & Regulations
-.13 Contract Drawings
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-.17 Payments
-.18 Permits
-.19 Clean Up
-.20 Protection and Restoration of Adjacent Lands
-.21 Indemnification
-.22 Remedy For Breach
-.23 Special Notes/Specification Changes

DIVISION 00[3&4] BIDDING & CONTRACT REQUIREMENTS
(SECTION WITH * TO BE SUBMITTTED WITH BID)

SECTION 00301 BIDDER'S CHECKLIST*
SECTION 00370 BID PRICES*
SECTION 00371 DISCLOSURE OF LOBBYING ACTIVITIES*
SECTION 00480 NON-COLLUSIVE BIDDING & CERTIFICATION*
SECTION 00481 STATEMENT OF SURETY'S INTENT*
SECTION 00489 DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION GOALS*
SECTION 00490 EQUAL EMPLOYMENT OPPORTUNITY UTILIZATION REQUIREMENTS*
SECTION 00499 BID SECURITY*

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SECTION00620 LABOR & MATERIAL BOND
SECTION00650 CERTIFICATE OF INSURANCE

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- -.01 Intent of Plans and Specifications
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- -.01 New York State Standard Specifications
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- -.01 Special Notice to Bidders
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- .-03 Contract Requirements for Locally Administered Federal Aid Construction Projects (Package A)
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ESSEX COUNTY PROVISIONS

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555.72----16 M	ARCHITECTURAL PATTERING OF CONCRETE SURFACES
559.1696--18M	PROTECTIVE SEALING OF STRUCTURAL CONCRETE
559.1896--18M	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS
603.6706--08M	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 730 RISE X 1150 SPAN
604.50190108M TO 604.50191208M	OFFSET CATCH BASIN
604.51020215M	STORMWATER TREATMENT SYSTEM (SWTS)
604.5109--10M	FLEXIBLE CHECK VALVE – 450mm DIAMETER
605.2502--07M	PRECAST CONCRETE HEADWALLS FOR 100mm LATERAL OUTLET PIPES
605.98101818M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455mm DIAMETER
606.50----06M	DECORATIVE TIMBER BARRIER
607.91----01M	ORNAMENTAL METAL FENCE
607.97----08M	REMOVE AND RESET EXISTING FENCE
608.9401--07 M	IMPRINTED AND COLORING OF ASPHALT CONCRETE PAVEMENT
609.0209--01 M	GRANITE CURB, TYPE T100
610.02030106M	WETLAND SEEDING
613.01----01M	WETLAND TOPSOIL
613.04----01M	STOCKPILING AND PLACING STREAMBED MATERIALS
615.0402--08 M	TREE/VEGETATION PROTECTION BARRIER
616.08----24M	LIVE STAKE PLANTING (26 TO 50 mm)
621.51----15M	GRADING CLEANING AND RESHAPING EXISTING DITCHES
664.9408--08M	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 8 NPS (GRAVITY)

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1.	Federal Wage Rates
2.	State Wage Rates
3.	Borings
4.	Historic Roadway Scope of Work
5.	Permits, ACOE, NYSDEC, APA

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SECTION 00020

NOTICE TO BIDDERS

NOTICE IS HEREBY GIVEN, that the Undersigned, on behalf of the Essex County Board of Supervisors, will accept sealed bids until **April 6, 2012 at 2:00 P.M**. for the Reconstruction of Old Military Road (CR 35) – Phase I.

Specifications are available by contacting the Office of the Purchasing Agent, Linda M. Wolf, Government Center, Elizabethtown, New York 12932 or by calling 518-873-3330. Bid specifications are also available on line at www.co.essex.ny.us. Sealed bids will be received at the Office of the Purchasing Agent, County Complex, 7551 Court Street, Elizabethtown, New York until **April 6, 2012** at **2:00 P.M.** at which time bids will be publicly opened and read aloud.

All bids submitted in response to this notice shall be marked **"SEALED BID – RECONSTRUCTION/ REHABILITATION OF OLD MILITARY ROAD (CR 35) – PHASE 1, PIN 1754.96"** clearly on the outside of the envelope. All bids shall be submitted on the bid sheets included in the package, and no other forms shall be accepted.

The Disadvantaged Business Enterprise (DBE) Utilization Goal for this project is 9%.

In addition to bid sheets, the bidder shall submit executed non-collusion bid certificates signed by the bidder or one of its officers as required by the General Municipal Law Sec. 103d.

Each proposal will be accompanied by a bid security in the amount 5 percent (5%) of the gross amount of the bid. The Bidder to whom the Contract is awarded will be required to furnish performance, payment, and guarantee bonds from an acceptable Surety Company for an amount not less than 100% of the accepted bid.

Essex County reserves the right to reject any and all bids not considered to be in the best interest of Essex County, and to waive any technical or formal defect in the bids which is considered by Essex County to be merely irregular, immaterial, or unsubstantial.

PLEASE TAKE FURTHER NOTICE that Essex County affirmatively states that in regard to any contract entered into pursuant to this notice, without regard to race, color, sex, religion, age, national origin, disability, sexual preference or Vietnam Era veteran status, disadvantaged and minority or women-owned business enterprises will be afforded equal opportunity to submit bids in response hereto.

Dated: March 8, 2012
Linda M. Wolf, CPA
Purchasing Agent
Essex County Government Center
P.O. Box 217, 7551 Court Street
Elizabethtown, New York 12932
(518) 873-3330

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SECTION 00050

QUANTITIES FOR CANVASS OF BIDS

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
201.06	CLEARING AND GRUBBING	LS	NEC
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	NEC
202.19	REMOVAL OF SUBSTRUCTURES	CM	60
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	32400
203.03	EMBANKMENT IN PLACE	CM	3900
203.07	SELECT GRANULAR FILL	CM	6675
203.21	SELECT STRUCTURE FILL	CM	250
206.01	STRUCTURE EXCAVATION	CM	2185
206.02	TRENCH AND CULVERT EXCAVATION	CM	1200
206.04	TRENCH AND CULVERT EXCAVATION - O.G.	CM	10750
206.05	TEST PIT EXCAVATION	EACH	8
207.20	GEOTEXILE BEDDING	SQM	20518
207.23	GEOTEXTILE SLOPE PROTECTION	SQM	60
207.27	PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN	SQM	225
209.1003	SEED AND MULCH - TEMPORARY	SQM	22000
209.110102	CHECK DAM (DITCH BOTTOM WIDTH > 1.0 TO 2.0 M), STONE-TEMPORA Y	EACH	110
209.13	SILT FENCE-TEMPORARY	M	2540
209.140201	SEDIMENT TRAP, SAND BAG - TEMPORARY	EACH	1
209.140202	SEDIMENT TRAP, SAND BAG - TEMPORARY	EACH	1
209.1501	TURBIDITY CURTAIN	M	120
209.1702	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BEG - TEMPORARY	CM	56
209.200201	ROLLED EROSION CONTROL PRODUCT, CLASS III TYPE B, PERMANENT	SQM	5000
209.22	CONSTRUCTION ENTRANCE	SQM	490
210.481301	REMOVAL AND DISPOSAL OF MISCELLANEOUS ACM (BV14)	LS	NEC
304.12	SUBBASE COURSE, TYPE 2	CM	10750
402.011902	TYPE 2 F9, ASPHALT-TREATED PERMEABLE BASE COURSE	MT	6625
402.011912	PLANT PRODUCTION ADJUSTMENT TO 402.011902	QU	332
402.126202	12.5MM F2 TOP COURSE HMA, 60 SERIES COMPACTION	MT	2950
402.126212	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202	QU	147
402.196902	19MM F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT	3675
402.196912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902	QU	183
402.376902	37.5MM F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT	7210
402.376912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902	QU	360
407.0101	TACK COAT	L	15650
520.5014 08	SAW CUTTING, ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OR ASPHALT OVERLAY ON CONCRETE PAVEMENT	M	1025
551.11	CAST-IN-PLACE CONCRETE PILES	M	260

SECTION 00050

QUANTITIES FOR CANVASS OF BIDS

551.13	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC
551.14	DYNAMIC PILE TESTING	EACH	3
552.13	TEMPORARY STEEL SHEETING	SQM	287
552.16	EXCAVATION PROTECTION SYSTEM	SQM	9000
553.020001	COFFERDAMS (TYPE 2)	EACH	1
553.020002	COFFERDAMS (TYPE 2)	EACH	1
554.40	FILL TYPE RETAINING WALL (0 - 1.8M)	SQM	114
554.41	FILL TYPE RETAINING WALL (GREATER THAN 1.8M - 3.7M)	SQM	561
554.42	FILL TYPE RETAINING WALL (GREATER THAN 3.7M - 5.5M)	SQM	127
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CM	20
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CM	120
555.72 16	ARCHITECTURAL PATTERNING OF CONCRETE SURFACES	SQM	102
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG	2507
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	KG	19761
557.0109	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM F ORMWORK REQUIRED - TYPE 9 FRICTION	SQM	292
557.2009	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYP E 9 FRICTION	SQM	185
557.30	SIDEWALKS AND SAFETY WALKS	SQM	121
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SQM	340
559.1696 18	PROTECTIVE SEALING OF STRUCTURAL CONCRETE	SQM	152
559.1896 18	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SQM	440
563.02	PRESTRESSED CONCRETE BOX BEAMS UNITS	SQM	143
565.30	RUBBER IMPREGNATED WOVEN COTTON-POLYESTER FABRIC	EACH	18
568.52	STEEL BRIDGE RAILING (FIVE RAIL)	M	59
568.70	TRANSITION BRIDGE RAILING	M	39
603.0101	CULVERT-END SAFETY GRATE	SQM	13
603.171116	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 375 MILLIMETER DIAMETER, 16 GAUGE	EACH	2
603.171216	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 450 MILLIMETER DIAMETER, 16 GAUGE	EACH	3
603.171614	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 750 MILLIMETER DIAMETER, 14 GAUGE	EACH	2
603.171814	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 900 MILLIMETER DIAMETER, 14 GAUGE	EACH	1
603.6004	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	15
603.6701	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HEIII, 365 MILLIMETER RISE, 575 MILLIMETER SPAN	M	26
603.6704	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE,CLASS HE III, 610 MILLIMETER RISE, 960 MILLIMETER SPAN	M	11
603.6706	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HE III 730 MILLIMETER RISE, 1150 MILLIMETER SPAN	M	13
603.6706 08	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE ENDSECTION, CLASS HE III 730 MM RISE X 1150 MM SPAN	EACH	2

SECTION 00050

QUANTITIES FOR CANVASS OF BIDS

603.7304	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EACH	1
603.77	CONCRETE COLLARS	EACH	2
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIAMETER	M	20
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIAMETER	M	500
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIAMETER	M	760
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIAMETER	M	555
603.9830	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIAMETER	M	10
604.070101	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	1
604.070102	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	1
604.070103	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	1
604.070104	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	5
604.300611	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M	115
604.300673	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M	35
604.301111	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR #11 WELDED FRAME	M	3
604.301172	RECTANDULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M	3
604.311132	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION FOR ROUND MH FRAME	M	7
604.4048	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M	11
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M	5
604.500101	SPECIAL DRAINAGE STRUCTURE	M	2
604.50190108	OFFSET CATCH BASIN	M	3
604.50190208	OFFSET CATCH BASIN	M	2
604.50190308	OFFSET CATCH BASIN	M	2
604.50190408	OFFSET CATCH BASIN	M	2
604.50190508	OFFSET CATCH BASIN	M	3
604.50190608	OFFSET CATCH BASIN	M	3
604.50190708	OFFSET CATCH BASIN	M	3
604.50190808	OFFSET CATCH BASIN	M	3
604.50190908	OFFSET CATCHBASIN	M	2
604.50191008	OFFSET CATCHBASIN	M	2
604.50191108	OFFSET CATCHBASIN	M	2
604.50191208	OFFSET CATCHBASIN	M	2
604.51020215	STORMWATER TREATMENT SYSTEM (SWTS) (MAXIMUM FLOW CAPACITY OF 80 L/SEC)	EACH	1
604.5109 10	FLEXIBLE CHECK VALVE - 450 MM DIAMETER	EACH	2
605.1001	UNDERDRAIN FILTER TYPE 2	CM	1750

SECTION 00050

QUANTITIES FOR CANVASS OF BIDS

605.1701	OPTIONAL UNDERDRAIN PIPE, 100 MILLIMETER DIAMETER	M	6525
605.2502 07	PRECAST CONCRETE HEADWALLS FOR 100 mm LATERAL OUTLET PIPES	EACH	22
605.98101818	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MILLIMETERS DIAMETER	M	610
606.10	BOX BEAM GUIDE RAILING	M	204
606.120102	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE I	EACH	4
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	4
606.50 06	DECORATIVE TIMBER BARRIER	M	55
607.91 01	ORNAMENTAL METAL FENCE	M	81
607.97 08	REMOVE AND RESET EXISTING FENCE	M	142
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CM	43
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS ,AND VEGETATION CONTROL STRIPS	MT	400
608.020112	PLANT PRODUCTION QUALITY ADJUSTMENT TO 608.020102	QU	20
608.21	EMBEDDED DETECTABLE WARNING UNITS	SQM	9
608.9401 07	IMPRINTING AND COLORING OF ASPHALT CONCRET PAVEMENT	SQM	156
609.0201	STONE CURB, GRANITE, (TYPE A)	M	580
609.0209 01	GRANITE CURB, TYPE T100	M	70
609.0302	STONE CURB - BRIDGE (TYPE F1)	M	35
610.0110	APPLYING FERTILIZER	KG	500
610.0203	ESTABLISHING TURF	SQM	20150
610.02030106	WETLAND SEEDING	SQM	350
610.03	ESTABLISHING WILDFLOWERS	SQM	285
611.020133	PLANTING MINOR DECIDUOUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 1.25 METER HEIGHT BALLED & BURLAPPED,NURSERY GRWN	EACH	42
611.020142	PLANTING MINOR DECIDUOUS TREES, 1.5 M HEIGHT, BARE ROOT, NURSERY GROWN, SPRING PLANT	EACH	58
611.030155	PLANTING CONIFEROUS TREE SPECIES, SEE CONTRACT DOCUMENTS, 1.5 METER HEIGHT, CONTAINER GROWN	EACH	23
611.030165	PLANTING CONIFEROUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 1.80 METER HEIGHT, CONTAINER GROWN	EACH	24
611.040123	PLANTING DECIDUOUS SHRUBS SPECIES, SEE CONTRACT DOCUMENTS, 0.4 M HEIGHT/SPREAD, CONTAINER/POT GROWN	EACH	104
611.040142	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.60 METER HEIGHT/SPREAD BALLED & BURLAPPED	EACH	59
611.040143	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.60 METER HEIGHT/SPREAD CONTAINER/POT	EACH	148
611.040152	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.90 METER HEIGHT/SPREAD BALLED & BURLAPPED	EACH	115
613.01 01	WETLAND TOPSOIL	CM	4750
613.02	PLACING TOPSOIL-TYPE A	CM	860
613.04 01	STOCKPILING AND PLACING STREAMBED MATERIAL	CM	70
614.0313	TREE REMOVAL, UP TO 150 MM DIAMETER, BREAST HIGH, STUMPS CUT 150 MM BELOW GRADE	EACH	2

SECTION 00050

QUANTITIES FOR CANVASS OF BIDS

614.0323	TREE REMOVAL OVER 150 MM TO 300 MM DIAM. BREAST HIGH STUMP CUT 150 MM BELOW GRADE	EACH	2
614.0333	TREE REMOVAL OVER 300 MM TO 450 MM DIAM. BREAST HIGH STUMP CUT 150 MM BELOW GRADE	EACH	11
614.0343	TREE REMOVAL OVER 450 MM TO 600 MM DIAM. BREAST HIGH STUMP CUT 150 MM BELOW GRADE	EACH	2
615.0402 08	TREE/VEGETATION PROTECTION BARRIER	M	4100
616.08 24	LIVE STAKE PLANTINGS 26MM TO 50MM	EACH	200
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	NEC
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	25
619.0801	REMOVE EXISTING PAVEMENT MARKING STRIPES	M	500
619.100101	INTERIM PAVEMENT MARKINGS, STRIPES (TRAFFIC PAINT)	M	5000
619.110204	PORTABLE, VARIABLE MESSAGE SIGN (PVMS) (LED) (CELLULAR COMMUNICATIONS AND RADAR)	EACH	4
619.1702	TEMPORARY CONCRETE BARRIER, (UNPINNED) WITH WARNING LIGHTS	M	100
619.1704	TEMPORARY CONCRETE BARRIER, (PINNED) WITH WARNING LIGHTS	M	420
619.27	MAILBOXES	EACH	60
620.03	STONE FILLING (LIGHT)	CM	600
620.04	STONE FILLING (MEDIUM)	CM	1750
620.05	STONE FILLING (HEAVY)	CM	405
621.51 15	GRADING CLEANING AND RESHAPING EXISTING DITCHES	M	28
623.11	CRUSHED GRAVEL (IN-PLACE MEASURE)	CM	580
623.12	CRUSHED STONE, (IN-PLACE MEASURE)	CM	10
624.0109	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS TYPE BB	SQM	2152
625.01	SURVEY OPERATIONS	LS	NEC
625.05	STEEL PIN AND CAP RIGHT-OF-WAY MARKER	EACH	36
637.03	CONCRETE CYLINDER CURING BOX	EACH	1
637.12	ENGINEER'S FIELD OFFICE - TYPE 2	MNTH	19
637.21	MOBILE TELEPHONE	DC	2500
637.26	RAIN GAUGE	EACH	1
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	13000
640.20	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES - 0.51 MM	M	6400
640.21	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES - 0.51 MM	M	5280
640.22	WHITE PAINT REFLECTORIZED PAVEMENT LETTERS - 0.51 MM	EACH	4
645.5102	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 2.78 SM WITH Z-BARS	SQM	20
645.5202	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 2.78 SM WITH Z-BARS, HIGH-VISIBILITY SHEETING	SQM	10
645.81	TYPE A SIGN POSTS	EACH	50
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EACH	20
647.01	REMOVAL OF SIGNS - SIZE A (0.0-1.0 SQUARE METERS)	EACH	60

SECTION 00050

QUANTITIES FOR CANVASS OF BIDS

650.1024	TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 600MM (600 MM)	M	60
650.2136	TRENCHLESS INSTALLATION OF CASING UNDER RAILROAD WITH A DIAMETER > THAN 600MM AND < OR EQUAL TO 1060MM (900 MM)	M	34
655.0705	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EACH	1
655.0706	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EACH	12
655.1111	WELDED FRAME AND RETICULINE GRATE 11	EACH	59
655.1202	MANHOLE FRAME AND COVER	EACH	22
663.0106	DUCTILE IRON CEMENT LINED WATER PIPE, 6 NPS	M	22
663.0108	DUCTILE IRON CEMENT LINED WATER PIPE, 8 NPS	M	110
663.0112	DUCTILE IRON CEMENT LINED WATER PIPE, 12 NPS	M	505
663.0604	COPPER WATER SERVICE PIPE 1 NPS	M	175
663.1006	RESILIENT WEDGE VALVE & VALVE BOX, 6 NPS	EACH	4
663.1008	RESILIENT WEDGE VALVE & VALVE BOX, 8 NPS	EACH	2
663.1012	RESILIENT WEDGE VALVE & VALVE BOX, 12 NPS	EACH	5
663.1301	HYDRANT	EACH	1
663.1302	HYDRANT	EACH	1
663.1303	HYDRANT	EACH	1
663.1304	HYDRANT	EACH	1
663.2001	IRON WATER MAIN FITTINGS (3 NPS - 8 NPS)	KG	600
663.2002	IRON WATER MAIN FITTINGS (10 NPS - 16 NPS)	KG	3720
663.2504	WATER SERVICE CONNECTION, 1 NPS	EACH	20
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EACH	18
663.34	ADJUST EXISTING HYDRANT ELEVATION	EACH	2
663.35	ADJUST EXISTING CURB BOX ELEVATION	EACH	5
663.40	DISCONNECT AND CAP EXISTING WATER MAIN	EACH	2
663.4112	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 12 NPS	M	50
663.46	REMOVE AND STORE EXISTING HYDRANT	EACH	3
664.9408 08	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 8 NPS (GRAVITY)	M	50
697.03	FIELD CHANGE PAYMENT	DC	343258
698.04	ASPHALT PRICE ADJUSTMENT	DC	100
698.05	FUEL PRICE ADJUSTMENT	DC	100
699.040001	MOBILIZATION	LS	NEC

BIDDING AND CONTRACT REQUIREMENTS

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SECTION 00100
INFORMATION FOR BIDDERS

00100.01 PROJECT LOCATION AND IDENTIFICATION

The work under this project is located along Old Military Road from approximately 200 meters northwest of Carolyn Road and ending at a point approximately 600 meters southeast of Averyville Road and Station Street intersections in Essex County, New York.

Letting (Bid Date): April 6, 2012
Title: Reconstruction/Rehabilitation of Old Military Road (CR 35) – Phase 1

Engineer: Foit-Albert, Associates P.C.
435 New Karner Road
Essex, New York 12205
Phone (518) 452-1037
Fax (518) 452-3639

00100.02 DESCRIPTION OF THE WORK

The items of work under Project Title Reconstruction/Rehabilitation of Old Military Road (CR 35) – Phase 1 include, but are not necessarily limited to the following:

Implementation of a traffic control plan; reconstruction of approximately 2600 meters of asphalt highway; drainage improvements along 3000 meters of highway through both open and closed drainage systems; intersection improvements. All new pavements will be hot mix asphalt. Construction of new sidewalks and curbs. Construction of stormwater and wetland mitigation areas. Installation of approximately 505 meters of new 12 NPS and 110 meters of new 8" ductile iron water main. Traffic will be maintained through a combination of an off site detour and on site phased construction. A new prestressed concrete bridge will be constructed over the Chubb River. Construction of 5 precast modular retaining walls.

00100.03 COMMENCEMENT AND COMPLETION OF THE WORK

Upon execution of the Contract including delivery of the Performance Bond, Labor & Materials Payment Bond and insurance policies and certificates by the Contractor to the Owner and the approval thereof by the Owner's attorney, the Contractor will be notified to proceed with the work. Such notification will be in the form of a letter to proceed from the Engineer.

All work items of the Contract shall be substantially completed by September 30, 2013 unless such period is extended by the Owner as provided herein.

SECTION 00100
INFORMATION FOR BIDDERS

00100.03 COMMENCEMENT AND COMPLETION OF THE WORK - Continued

In amplification of Section 108-03 of the New York State Department of Transportation Standard Specifications, Construction and Materials of May 4, 2006, for each calendar day, or any portion thereof, that any work remains uncompleted after the contract completion date specified above, Liquidated Damages from the contract completion date to the final date of completion of the work will be assessed against the Contractor. Liquidated Damages will be in the amount specified in Table 108-01 *Schedule of Liquidated Damages* as follows.

TABLE 108-01 SCHEDULE OF LIQUIDATED DAMAGES		
Original Total Contract Bid Price		Liquidated Damages Per Calendar Day
From More Than	To and Including	
$0	$100,000	$500
$100,000	$500,000	$1,000
$500,000	$2,000,000	$1,500
$2,000,000	$5,000,000	$2,000
$5,000,000	$10,000,000	$2,500
$10,000,000	$20,000,000	$4,000
$20,000,000		$7,000

00100.04 COLLATERAL WORK AND CONDITIONS OF WORK

Each Bidder shall inform himself fully of the conditions relating to the construction of the Project and the employment of labor thereon. Failure to do so will not relieve a successful Bidder, as Contractor, of his obligation to furnish all material and labor necessary to carry out the provisions of his Contract. Insofar as possible, the Contractor, in carrying out the work, shall employ such methods or means as will not cause any interruption of or interference with the work of any other Contract.

Each Contractor will be required to coordinate his work with the work of other Contracts. Each Contractor will be required to adjust his schedule accordingly.

00100.05 RECEIPT AND OPENING OF BIDS

The County of Essex (herein called the Owner) invites Bids on the attached forms. Bids will be received by the Owner until the time and at the place stated in the attached Notice To Bidders. Bids must be in an opaque sealed envelope and accompanied by the Bid Security and other required documents. If the Bid is sent through the mail or other delivery system, the sealed envelope shall be enclosed in a separate envelope with the notation "Bid Enclosed" on the face thereof.

Submit Bid to:

Linda M. Wolf, CPA
Purchasing Agent
Essex County Government Center
P.O. Box 217, 7551 Court Street
Elizabethtown, New York 12932

SECTION 00100
INFORMATION FOR BIDDERS

00100.05 RECEIPT AND OPENING OF BIDS - Continued

The outside of the envelope shall bear the name and address of the Bidder and shall be labeled to clearly show the Contract designation for which the Bid is submitted as follows:

RECONSTRUCTION/REHABILITATION OF OLD MILITARY ROAD (CR 35) – PHASE 1
PIN #1754.96
ESSEX COUNTY

00100.06 INFORMALITIES, WAIVERS AND WITHDRAWALS

The Owner may consider informal any Bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities in or reject any or all Bids. Bids which do not contain a price for every numbered item contained in the Bid form will not be accepted.
Any Bid may be withdrawn prior to the scheduled deadline for receipt of Bids or authorized postponement thereof, but no Bid may be withdrawn within ninety (90) days after the actual date of the opening thereof. Any Bid received after the time and date specified will not be considered, and will be returned unopened.

If within 24 hours after Bids are opened, any Bidder files a duly signed written notice with the County of Essex and promptly thereafter demonstrates to the reasonable satisfaction of the County that there was a material and substantial mistake in the preparation of his Bid, that Bidder may withdraw his Bid and the Bid security will be returned. Thereafter, that Bidder will be disqualified from further bidding on the work.

00100.07 BID PREPARATION

Complete sets of the Bidding Documents may be obtained or examined as stated in the Notice to Bidders.

Complete sets of Bidding Documents shall be used in preparing Bids. Neither the County of Essex nor the Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

The County of Essex and the Engineer in making copies of Bidding Documents available on the above terms, do so only for the purpose of obtaining Bids on the work and do not confer a license or grant for any other use.

The Bid Form is attached hereto; additional copies may be obtained from the County Engineer.
Only the County supplied Bid Form will be accepted. Substitutions will not be accepted.

Bid Forms must be completed in ink or by Typewriter. The Bid price form must be stated in words and numerals; in case of a conflict, words will take precedence.

SECTION 00100
INFORMATION FOR BIDDERS

00100.07 BID PREPARATION - Continued

Bids by corporations must be executed in the corporate name by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown below the signature.

Bid by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.

All names must be typed or printed below the signature.

The Bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which shall be filled in on the Bid Form).

The address to which communications regarding the Bid are to be directed must be shown.

All Contract Documents, except the Contract Drawings, the Performance Bond, Labor & Materials Payment Bond, Certificate of Insurance and any Addenda, are contained in this binder. The Contract Drawings are bound separately. All Contract Documents, except the Contract Drawings, Performance Bond and Labor & Materials Payment Bond, and Certificate of Insurance must be submitted with the Bid. The Contract Documents are defined in the Agreement.

Any bidder may modify his Bid by telegraphic or facsimile communication at any time prior to the scheduled closing time for receipt of Bids, provided such telegraphic or facsimile communication is received by the Owner prior to the closing time, and, provided further, the Owner is satisfied that a written confirmation of the telegraphic or facsimile modification over the signature of the Bidder was mailed prior to the closing time. The telegraphic or facsimile communication should not reveal the Bid price but should provide: the addition or subtraction or other modification so that the final prices or terms will not be known by the Owner until the sealed Bid is opened. If written confirmation is not received within three days from the closing time, no consideration will be given to the telegraphic or facsimile modification.

00100.08 ADDENDA AND INTERPRETATIONS

No verbal interpretation of the intent of any of the Contract Documents will be made before receipt of Bids. Requests for interpretations prior to receipt of Bids must be presented in writing to the Engineer, Foit-Albert Associates, P.C., 435 New Karner Road, Essex, New York 12205, and to be given consideration must be received by the Engineer at least seven (7) days prior to the date set for the opening of Bids.

Any interpretation, and any additional information or instruction will, if issued, be in the form of a written Addendum or Addenda sent by certified mail to all holders of Contract Documents at the addresses furnished therefore, at least five (5) days prior to the date of the opening of Bids.

SECTION 00100
INFORMATION FOR BIDDERS

00100.08 ADDENDA AND INTERPRETATIONS - Continued

Facsimile ('Fax") communication may be issued in advance of any written Addendum or Addenda without diminishing any part of this Section.

Failure of any Bidder to receive any such Addendum or interpretation shall not relieve such Bidder from any obligation under this Bid as submitted. All Addenda so issued shall become a part of the Contract Documents

00100.09 QUALIFICATIONS OF BIDDERS

All Bidders shall submit the Bidder's Qualification Questionnaire as part of the Bid. The low Bidder shall have constructed at least three (3) projects of the same nature, type of construction, size, scope, and dollar value as this project, within the past three years.

The Owner reserves the right to make such investigation as he may deem necessary or advisable to determine any Bidder's ability to do the work, and the Bidder shall furnish to the Owner on request all data and information pertinent thereto. The Owner reserves the right to reject any Bid if such investigation fails to satisfy the Owner that the Bidder is fully qualified to do the work.

Conditional Bids will be considered informal and will be rejected.

Immediately following the Canvass of Bids the Low Bidder, if so requested, shall furnish the Owner a sworn and notarized financial statement, and a statement of his qualifications and experience.

Within ten (10) days of receipt of the Bid, the low bidder and proposed subcontractors must have a complete New York State Uniform Contracting Questionnaire on file with the New York State Department of Transportation (NYSDOT) in conformance with Article 00840.02, or may be subject to forfeiture of the amount of the bid deposit.

00100.10 OBLIGATIONS OF BIDDERS

At the time of the opening of Bids, each Bidder will be presumed to have inspected the Site, to have informed himself fully of the conditions relating to the work and labor required for the work, and to have read and acquainted himself with all the Contract Documents. Failure to do so will not relieve the Bidder who is awarded the Contract of his obligation to complete the work for the price or prices bid, or of any other obligation under the Contract. The failure or omission of any Bidder to receive or examine any Contract Documents shall in no way relieve him from any obligation in respect to his Bid.

SECTION 00100
INFORMATION FOR BIDDERS

00100.11 BID SECURITY

Each Bid must be accompanied by a certified check or Bid Bond in an amount not less than five percent (5%) of the Bid drawn upon a national or state bank or trust company, to the order of the Director of Finance, Essex County. A Bid Bond fully executed by the Bidder as principal, and having as surety thereon a surety company approved by the Owner and authorized to do business in New York State will be accepted in lieu of a certified check. The Bid Bond shall be in the form of the sample shown in Section 102 of the New York State Department of Transportation Standard Specifications, Construction and Materials of May 4, 2006, with all appropriate modifications, or in a form approved by the Owner.

Such checks or Bid Bonds will be returned to all except the three lowest Bidders within seven working days after the opening of Bids. The remaining deposits will be returned to the three lowest Bidders within three working days after execution of the Contract, or, if no Contract is executed within 90 calendar days after opening of Bids, upon demand of the Bidder at any time thereafter so long as he has not been notified of the acceptance of his Bid.

00100.12 LIQUIDATED DAMAGES FOR FAILURE TO EXECUTE CONTRACT

Should the successful Bidder refuse or fail to execute the Contract and Bond within fifteen (15) working days after receipt of notice of the acceptance of his Bid, the security deposited with his Bid shall be forfeited to the Owner as liquidated damages for such refusal or failure.

00100.13 DISCREPANCY IN BIDS

In the event a discrepancy exists in any Bid between the prices written in words and the prices written in figures, the prices written in words shall govern. If a discrepancy exists in any bid between unit prices and the extended totals therefore, the unit prices shall govern. In either of the above cases, the extended totals, and the total of all extensions, shall be corrected, if necessary, and the Bid may not be considered informal.

00100.14 LOWEST BIDDER

Bids will be compared on the basis of the totals for the Contract, corrected as necessary in conformance with Article 00100.13, given at the bottom of the schedule of quantities, prices and extensions. Such total in each Bid shall be the sum of all lump sum prices, plus the sum of all the extensions produced by multiplying the unit price in each case by the corresponding listed quantity.

SECTION 00100
INFORMATION FOR BIDDERS

00100.15 AWARD OF CONTRACT

The Contract will be awarded to that responsible bidder whose Bid, after corrections and adjustments, totals the least number of dollars.

The Owner reserves the right to reject any and all Bids.

If the Contract is to be awarded, the County of Essex will give the successful Bidder a Notice of Award within 90 days after the day of the Bid opening.

When the County gives a Notice of Award to the successful Bidder, it will be accompanied by at least three unsigned counterparts of the Agreement and all other Contract Documents. Within 15 days thereafter, Contractor shall sign and deliver at least three counterparts of the Agreement to the County with all other Contract Documents attached. Within 20 days thereafter, the County will deliver all fully signed counterparts to the Contractor. The Engineer will identify those portions of the Contract Documents not fully signed by the County and Contractor and such identification shall be binding on all parties.

END OF SECTION

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SECTION 00150
LABOR AND EMPLOYMENT

00150.01 GENERAL

The Contractor and every Subcontractor on public works contracts shall comply with Article 8 of the State Labor Law, as amended.

00150.02 POSTING MINIMUM WAGE RATES & KEEPING RECORDS

The Contractor and every Subcontractor on public works contracts shall post in a prominent and accessible place on the Site a legible statement of all wage rates and supplements as specified in the Contract to be paid or provided, all redeterminations of such schedules as the case may be, for the various classes of mechanics, workmen and laborers employed on the work. Other notices to be posted are the Workers' Compensation Law Section 51 notice, the Department of Labor notice that this project is a public work project on which each worker is entitled to receive the prevailing rate of wages and supplements for the occupation at which he or she is working, and all other notices required by law to be posted at the site. The Contractor 'shall maintain such notices in a legible manner, written in plain English in lettering no smaller, than two inches in height and two inches in width, weatherproof, and shall replace any notice or schedule which is damaged, defaced, illegible or removed for any reason.

The Contractor and every Subcontractor shall keep original payrolls or verified transcripts thereof showing the hours and days worked by each workman, mechanic' or laborer, the occupation at which he worked, the hourly wage rate paid and the supplements paid or provided, on the Site, when the Contractor or Subcontractor maintains no regular place of business in New York State and where the amount of the Contract is in excess of $25,000. All other Contractors and Subcontractors shall produce within five days on the Site and upon formal order of the Commissioner of Labor or his designated representative such original payrolls or verified transcripts thereof, as may be deemed necessary to adequately enforce the provisions of this Section.

Notwithstanding the aforementioned requirements, every Contractor and Subcontractor shall submit to the Owner within thirty days after issuance of its first payroll, and every thirty days thereafter, a transcript of the original payroll record, as provided by Article 8 of the Labor Law, subscribed and affirmed as true under penalties of perjury. The original payrolls or transcripts shall be preserved for three years from the completion of the work.

SECTION 00150
LABOR AND EMPLOYMENT

00150.03 NON-DISCRIMINATION AND LABOR PRACTICES

In accordance with Section 220-e of Article 8 of the State Labor Law, the Contractor agrees:

A. That in the hiring of employees for the work of this Contract or any Subcontract, neither he nor any Subcontractor, nor any person acting on behalf of the Contractor, or any Subcontractor, shall by reasons of race, creed, color, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which his employment relates; and

B. That neither the Contractor, nor any Subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee hired for the performance of work under this Contract on account of race, creed, color, sex, disability or national origin; and

C. That there may be deducted from the amount payable to the Contractor by the Owner, a penalty of Fifty Dollars for each person for each calendar day during which such person was discriminated against or intimidated in violation of the provisions of this Contract; and

D. That this Contract may be cancelled or terminated by the Owner, and all monies due or to become due hereunder may be forfeited, for a second or any subsequent violation of the terms or conditions of this Section of the Contract; and

E. That the aforesaid provisions of this Section covering contracts for the manufacture, sale or distribution of materials, equipment or supplies shall be limited to operations performed within the territorial limits of the State of New York.

F. During the performance of this Contract, the Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, sex, color, disability or national origin, and will take affirmative action to insure that they are afforded equal employment opportunities without discrimination because of race, creed, sex, color or national origin. Such action shall be taken with reference, but not be limited to: recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of pay or other forms of compensation, and selection for training or retraining, including apprenticeship and on-the-job training.

SECTION 00150
LABOR AND EMPLOYMENT

00150.03 NON-DISCRIMINATION AND LABOR PRACTICES - Continued

2. The Contractor will send to each labor union or representative of workers with which he has or is bound by a collective bargaining or other agreement or understanding, a notice to be provided by the State Division of Human Rights, advising such labor union or representative of the Contractor's agreement under subparagraphs (1) through (7) (hereinafter called "non-discrimination clauses"). If the Contractor was directed to do so by the contracting agency as part of the Bid or negotiation of this Contract, the Contractor shall request such labor union or representative to furnish him with a written statement that such labor union or representative either will affirmatively cooperate, within the limits of its legal and contractual authority, in the implementation of the policy and provisions of these non-discrimination clauses or that it consents and agrees that recruitment, employment and the terms and conditions of employment under this Contract shall be in accordance with the purposes and provisions of these non-discrimination clauses. If such labor union or representative fails or refuses to comply with such a request that it furnish such a statement, the Contractor shall promptly notify the State Division of Human Rights of such failure or refusal.

3. The Contractor will post and keep posted in conspicuous places, available to employees and applicants for employment, notices to be provided by the State Division of Human Rights setting forth the substance of the provisions of subparagraphs (1) and (2) and such provisions of the State's laws against discrimination as the State Commissioner of Human Rights shall determine.

4. The Contractor will state, in all solicitations, or advertisements for employees placed by or on behalf of the Contractor, that all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, sex, color, disability or national origin.

5. The Contractor will comply with the provisions of Sections 291-299 of the Executive Law and the Civil Rights Law, will furnish all information and reports deemed necessary by the State Commissioner of Human Rights under these non-discrimination clauses and such sections of the Executive Law, and will permit access to his books, records and accounts by the State Commissioner of Human Rights, the Attorney General. and the Commissioner of Labor for purposes of investigation to ascertain compliance with these nondiscrimination clauses and such sections of the Executive Law and Civil Rights Law.

6. This Contract may be forthwith cancelled, terminated or suspended, in whole or in part, by the contracting agency upon the basis of a finding made by the State Commissioner of Human Rights that the Contractor has not complied with these non-discrimination clauses, and the Contractor may be declared ineligible for future contracts made by or on behalf of the State or a public authority or agency of the State, until he satisfies the State Commissioner of Human Rights that he has established and is carrying out a program in conformity with the provisions of these non-discrimination clauses. Such finding shall be made by the State Commissioner of Human Rights after conciliation efforts by the State Division of Human Rights have failed to achieve compliance with these nondiscrimination clauses and after verified complaint has been filed with the State Division of Human Rights, notice thereof has been given to the Contractor and an opportunity has been afforded him to be heard publicly before the State Commissioner of Human Rights or his designee. Such sanctions may be imposed and remedies otherwise provided by law.

7. The Contractor will include the provisions of sub-paragraph (1) through (7) of this paragraph A and in every Subcontract or purchase order in such a manner that such provisions will be binding upon each Subcontractor or vendor as to operations to be performed within the State of New York. The Contractor will take such action in enforcing such provisions of such Subcontract or purchase order as the contracting agency may direct, including sanctions or remedies for non-compliance. If the Contractor becomes involved in or is threatened with litigation with a Subcontractor or vendor as a result of such direction by the contracting agency, the Contractor shall promptly so notify the Attorney General, requesting him to intervene and protect the interest of the State of New York.

G. It is hereby agreed that all applicable provisions of the Labor Law of the State of New York shall be carried out in the performance of this Contract.

H. This agreement shall be void and of no effect unless the Contractor shall secure compensation insurance for the benefit of, and keep insured during the life of this agreement, such employees engaged therein as are required to be insured by the provisions of the Worker's Compensation Law of the State of New York.

00150.04 LEGAL DAY'S WORK

In accordance with Section 220 (2) of Article 8 of the State Labor Law, no laborer, workman or mechanic employed by the Contractor, a Subcontractor or other person doing or contracting to do any part of the work shall be permitted or required to work more than eight hours in any one calendar day or more than five days in any week except in cases of extraordinary emergency including fire, flood or danger to life or property, or in case of national emergency when so proclaimed by the President of the United States.

SECTION 00150
LABOR AND EMPLOYMENT

00150.05 WAGE RATES

In accordance with Section 220 of Article 8 of the State Labor Law, the wages to be paid for a legal day's work, as hereinbefore defined, to laborers, workmen or mechanics employed by the Contractor or Subcontractors, shall be not less than the prevailing rate of wages as hereinafter defined. Each laborer, workman or mechanic employed by the Contractor, Subcontractors, or other person upon or about the work, shall be paid not less than the wages and supplements herein provided.

Any person or corporation that willfully pays or provides less than the stipulated wage scale or supplements shall be guilty of a misdemeanor and upon conviction shall be punished as provided by law.

It shall be the duty of the Commissioner of Labor, or, if the Owner is a city, the comptroller or other analogous officer of such city, to make a determination of the schedule of wages to be paid all laborers, workmen and mechanics employed on the Project (if it is a public works project) including supplements for welfare, pension, vacation and other benefits. These supplements include hospital, surgical or medical insurance or benefits, life insurance or death benefits, accidental death or dismemberment insurance, and pension or retirement benefits. If the amount of supplements provided by the employer is less than the total supplements shown on the wage schedule, the difference shall be paid in cash to employees.

The supplements to be provided shall be in accordance with prevailing practices in the locality. The amount for wages and for supplements, listed in the schedule in these Contract Documents does not necessarily include all types of prevailing wages and supplements in the locality, and a future determination by the Commissioner of Labor may require the Contractor to pay increased wages or provide additional supplements.

00150.06 VERIFICATION OF AMOUNTS DUE FOR WAGES AND SUPPLEMENTS

In accordance with Section 220-a of Article 8 of the State Labor Law, the New York State schedule of prevailing wages and supplements, as included in this Contract or as subsequently redetermined by the New York State Department of Labor, shall be specifically included in each and every Subcontract, regardless of tier, awarded by the Contractor or his Subcontractors.

Subcontractors, regardless of tier, shall provide to the Contractor a verified statement attesting that the Subcontractor has received and reviewed the prevailing wage rate and supplement schedule and agreeing that it will pay its employees the applicable wages and will pay or provide the supplements specified therein. The Contractor shall submit to the Owner copies of all such verified statements.

The Owner will not make final payment to the Contractor unless and until the Contractor submits the following:

- verified statements as described in the preceding paragraph

SECTION 00150
LABOR AND EMPLOYMENT

00150.06 VERIFICATION OF AMOUNTS DUE FOR WAGES AND SUPPLEMENTS - Continued

- certification to the amounts then due from the Contractor to any and all laborers for wages for supplements on account of labor performed upon the work under the Contract

- certification to the amounts then due from any Subcontractor, regardless of tier, for wages and supplements, on account of labor performed upon the work under the Contract, or shall certify that the Contractor has no knowledge of such amounts owing to or on behalf of any laborers of its Subcontractors.

In the event it is determined by the New York State Commissioner of Labor that the wages and/or supplements of any employees of the Contractor's Subcontractors, regardless of tier, have not been paid or provided pursuant to the appropriate schedule of wages and supplements, the Contractor shall be responsible for payment of such wages or supplements.

00150.07 MINIMUM RATES

Federal and New York State Department of Labor wage rates will be in effect on this Project.

The minimum Federal wage rates and those designated by the Commissioner of Labor of the State of New York are attached; the Contractor is responsible for the higher of the Federal and State rates (from each County). These minimum rates and supplements may be modified during the life of the Contract. If the prevailing wage rates should subsequently be legally modified or increased by any means other than by the action of the Owner, the Contractor shall assume full responsibility for the payment of said increases without recourse to the Owner.

END OF SECTION

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.01 BORINGS AND SUBSURFACE DATA

Subsurface borings were taken at this site as indicated on the General. Plan. Soil samples taken at the time of borings were classified by the Driller's geologist and recorded in boring log form. The boring logs have been attached to the back of this Specification Booklet for the Contractor's convenience. This additional information is not part of the Contract Documents.

00160.02 PRE-CONSTRUCTION CONFERENCE

A pre-construction conference will be held after award of the Contract, but prior to commencement of construction, and the Contractor shall have an authorized representative of his firm present at this meeting.

00160.03 NON-COLLUSIVE BIDDING CERTIFICATION

A Non-Collusive Bidding Certification form as bound in these documents must be executed and accompany the Bid.

00160.04 MACBRIDE PRINCIPLES

In the case of a Contract which must be let by competitive sealed bidding, whenever the lowest Bidder has not agreed to stipulate to the conditions set forth in this Section, and another Bidder who has agreed to stipulate to such conditions has submitted a Bid within five percent (5%) of the lowest Bid for a Contract to supply goods, services or construction of comparable quality, the contracting entity shall refer the Contract to the County Legislature, which shall determine whether the lowest Bidder is responsible. In making such determination, the County Legislature may consider, as a factor bearing on responsibility, whether the lowest Bidder discriminates in employment in Northern Ireland,

As used in the Section, the term "Contract" shall not include Contracts with government and non-profit organizations, Contracts awarded pursuant to an emergency procurement procedure of Contracts, resolutions, indentures, declarations of trust or other instruments of authorizing or relating to the authorization, issuance, award, sale or purchase or bonds, certificates of indebtedness, notes or other fiscal obligations of the County, provided that the policies of this Section shall be considered when selecting managing underwriters in connection with such activities.

The provisions of this Section shall not apply to Contracts for which the County receives funds administered by the United States Department of Transportation, except to the extent Congress has directed that the Department of Transportation not withhold funds from States and localities that choose to implement selective purchasing policies based on agreement to comply with the MacBride Principles, or to the extent that such funds are not otherwise withheld by the Department of Transportation.

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.05 SPECIFICATIONS FOR CONTRACT

The Specifications covering work on this Contract are the General Requirements and Specifications enclosed herein and the "New York State Department of Transportation Standard Specifications, Construction and Materials" of May 4, 2006 with current additions and modifications.

When references are made in these Specifications to the "New York State Department of Transportation Standard Specifications, Construction and Materials "of May 4, 2006, and terms in these Specifications refer to the State, Department, Commissioner, Executive Deputy Commissioner, Comptroller, Division, Bureau, Regional Director or Chief Engineer, it shall be assumed that the Owner is implied; reference to the Engineer or Inspector shall mean that the Engineer representing the Owner is implied.

The Specifications, Plans and Contract documents provided by the Owner, shall govern over those of other agencies, but where the method of work, requirement of materials, and method of payment are not included in the Contract Documents provided by the Owner, the "New York State Department of Transportation Standard Specifications, Construction and Materials" of May 4, 2006, and any modifications and addenda, mentioned above shall govern.

The "New York State Department of Transportation Standard Specifications, Construction and Materials" of May 4, 2006, and all modifications and addendums may be obtained from the Plans Sales Section, 50 Wolf Road, 1st Floor, Suite 1PS, Albany, New York 12232

00160.06 CONTRACT BONDS

In amplification of the requirements of Section 103 of the New York State Department of Transportation Standard Specifications, Construction and Materials of May 4, 2006, the Contractor shall provide the Owner with a Faithful Performance Bond and a Libor and Materials Payment Bond from a Surety Company listed on the U.S. Department of the Treasury listing of Approved. Sureties (Treasury Department Circular 570) and licensed to do business in New York State, and with a minimum rating by AM . Best of (A-) in the "Best's Key Rating Guide",

The Contractor shall provide a Faithful Performance Bond and a Labor. and Materials Payment Bond in the form of the samples shown in Section 103 of the New York State Department of Transportation Standard Specifications, Construction and Materials of May 4, 2006, with all appropriate modifications, or in a form approved by the Owner.

00160.07 REQUIREMENTS REGARDING HISTOPLASMOSIS

The Bidder's attention is called to the "Requirements Regarding Histoplasmosis in Federal and State Contracts" as included at the end of this Section,

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.08 INSURANCE

In addition to the requirements of Section 1.07-06 of the New York State Department of Transportation Standard Specifications, Construction and Materials of May 4, 2006, the following insurance requirements will be in effect for this project,

A. CONTRACTOR'S LIABILITY INSURANCE

The limits of liability for the insurance required shall provide coverage for not less than the following amounts or greater, where required by law:

COMPREHENSIVE OR COMMERCIAL GENERAL LIABILITY- - Single Limit Occurrence Form with limits not less than:

Each Occurrence	$ 1,000,000
Aggregate - Personal Injury,	$ 1,000,000
Aggregate - Products/Complex Operations	$ 1,000,000
General Aggregate	$ 2,000,000

The policy shall include products and completed operations coverage, which shall be maintained and evidenced for at least two years after completion of' the contract.

Property Damage Liability insurance shall provide coverage for: Explosion; Collapse; and Underground.

Personal Injury liability shall he included with Employment Exclusion deleted.

The policy shall include Contractual liability, covering all obligations imposed on the contractor under the Agreement.

BUSINESS AUTO POLICY - Covering all owned, hired and non-owned vehicles, with. limits not less than:

Bodily Injury & Property Damage – $ 1,000,000
Combined Each Accident
The Policy Shall Include, P.I.P. $ 50,000
or "No Fault" Benefits – Each Person
Uninsured Motorist Each Accident $ 20,000

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.08 INSURANCE - Continued

UMBRELLA EXCESS LIABILITY - Occurrence Form with limits not less than:

Each Occurrence	$ 2,000,000
Aggregate	$ 2,000,000
Maximum Retention	$ 25,000

Any restrictions in Umbrella eliminating coverage's included in Primary Auto and General Liability, must be brought to the attention of the County Attorney's office and the County Engineer's office.

WORKERS COMPENSATION AND EMPLOYER'S LIABILITY

1. New York State — Statutory Benefits

2. Employer's Liability:

Each Accident	$ 100,000
Disease – Policy Limit	$ 500,000
Disease – Each Employee	$ 100,000
New York State Disability Benefits	Statutory Benefits
Applicable Federal Liability (e.g. Longshoremen's)	Statutory Benefits

ADDITIONAL INSURANCE REQUIREMENTS:

1. The following shall be named as additional insured's under the Automobile Liability and Umbrella Excess Liability policies:

   A. County of Essex, all officers and employees of the County of Essex and its agents and consultants.

   B. The Commissioner of Transportation and all employees of the New York State Department of Transportation.

   C. Foit-Albert Associates, P.C.

   D. The Town of North Elba

   E. The Village of Lake Placid

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.08 INSURANCE - Continued

2. In the event that claims in excess of the amounts provided by insurance are filed by reason of any operations under the contract, the amount of excess of such claims, or any portion thereof, may be withheld from payment due or to become due the contract, until such time as the contractor shall furnish such additional security covering such claims as may be determined by the owner.

3. Insurance coverage shall not be canceled, materially reduced or allowed to terminate at expiration until 30 days after written notice thereof shall have been sent by Certified Mail addressed to:

A. Linda M. Wolf, CPA
Purchasing Agent
Essex County Government Center
P.O. Box 217, 7551 Court Street
Elizabethtown, New York 12932

B. Essex County Department of Public Works
7551 Court Street
PO Box 217
Elizabethtown, NY 12932

C. Foit-Albert Associates, P.C.
435 New Karner Road
Essex, New York 12205
(518)452-1037

D. The Town of North Elba
2693 Main Street
Lake Placid, NY 12946

E. The Village of Lake Placid
2693 Main Street
Lake Placid, NY 12946

B. OWNERS LIABILITY INSURANCE

The Contractor shall purchase and pay the premium on an Owner's Protective Liability policy covering as named insured's, the County of Essex, the Town of Colonie and its officers, employees, agents and consultants, with limits not less than:

Each Occurrence	$1,000,000
Annual Aggregate	$2,000,000

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.08 INSURANCE - Continued

This policy shall apply to this project only. The policy shall be written with a carrier licensed to do business in New York State, with a rating in Best's Insurance Guide of A+, A or A (excellent). Prior to the commencement of work under the contract, the original policy shall be delivered to the owner.

C. ACCEPTANCE OF INSURANCE

All insurance policies providing contractor's required overages shall be issued by insurance carriers licensed to do business in New York State, with a rating in Best's Insurance Guide of A+, A or A- (excellent). If the insurance carrier for any policy is declared bankrupt or becomes insolvent or its right to do business within New York State is terminated, contractor shall, within five days thereafter, substitutes another insurance policy and carrier, both of which must be acceptable to the owner.

D. CONTRACTOR'S CERTIFICATES OF INSURANCE

Certificates of Insurance acceptable to the owner shall he filed with the owner prior to commencement of the work. "ACORD" Certificates of Insurance are preferred. If other forms are used, the certificate must include all of the information shown on ACORD Certificates of Insurance, These certificates shall contain a provision that coverage afforded under the policies will not be canceled, materially changed or lapsed at expiration until at lest 30 days prior written notice has been given to the County Attorney's office and the County Engineer's office.

Contractor's insurance agent shall furnish a signed and notarized statement certifying that he has reviewed the insurance requirements specified rot' this project, and that the insurance coverage's provided equal, meet or exceed those specified.

00160.09 ESTIMATED QUANTITIES

The contractor is to base his unit price bids on the dimensions and limits indicated in the Contract Documents. In the event additional work beyond those limits is required, the respective unit price as posted by the contractor in the bid documents shall. be used for payment of the additional work.

00160.10 SALES TAX EXEMPTION

Purchases for Essex County are not subject to any Federal, State or City sales tax. Exemption certificates will be executed upon request

00160.11 POWER OF ATTORNEY

Attorneys in-fact who sign Contract; Bonds must file with each bond a certified and effectively dated copy of their power of attorney.

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.12 LAWS & REGULATIONS

The Bidder's attention is directed to the fact that all applicable Federal and State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written out in full.

00160.13 CONTRACT DRAWINGS

It should be noted that the New York State Department of Transportation Standard Detail Sheets are considered as part of the Contract Drawings although they are not attached to the Contract Drawings.

00160.14 SPECIAL CONDITIONS

The Contractor shall maintain at all times a safe and adequate ingress and egress to and from all residences and private and public places of business for both vehicular and pedestrian traffic.

00160.15 INSPECTION AND TESTING

It is the intent of the Specifications that materials of construction shall be obtained from approved sources of the New York State Department of Transportation.

Tests made by this agency are acceptable to the Owner. This shall in no way preclude the Owner from requiring retesting or additional tests if in the opinion of the Engineer it is in the best interests of the Owner to do so.

When inspections, tests, analyses, etc., are required by the Plans or Specifications or ordered by the Engineer in accordance with the Plans or Specifications they shall be performed by the Engineer or an independent commercial testing facility at the expense of the Owner. When such work is to be done by a commercial testing facility or at a laboratory the Engineer will coordinate with the testing facility. The Contractor shall notify the Engineer a minimum of two (2) days prior to completing any work which will require field or laboratory testing (i.e., concrete pours, compaction of fill, etc.). The Contractor shall furnish at his own expense, the construction materials required for field tests (i.e. concrete, fill, etc.) and reasonable labor to assist the Engineer in conducting the tests.

The materials which will require additional testing in the field or a laboratory include but are not necessary limited to:

A. Embankments, Subgrade Areas, Subbases and Backfill Areas

B. Fine Aggregates, Coarse Aggregates, Sands, Mineral Filler, Stone, Gravel, Slag

C. Concrete

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.15 INSPECTION AND TESTING - Continued

The Contractor shall submit a written certification by the concrete supplier that all concrete supplied for the Project is in accordance with the approved mix design. Only concrete from sources approved by the New York State Department of Transportation shall be used.

D. Precast Concrete

The material and quality requirements for precast concrete items in Section 704.03 shall be adhered to by the precast concrete manufacturer and shall be monitored and inspected at the manufacturing facility in accordance with NYSDOT quality assurance procedures.

Precast concrete units shall be separated into specific identifiable lots in accordance with NYSDOT Quality Assurance Procedures. Precast units shall be sampled and tested to assure that the concrete is in conformance with specification requirements. Production Testing and End Product Testing will be performed according to Section 704.03.

All plant testing will be coordinated and completed by the Engineer.

E. Prestressed Concrete

Material and fabrication requirements for prestressed concrete units shall be in accordance with the previous precast concrete requirements and Section 718.01 of the Standard Specifications with the following exceptions:

1. References made to the Deputy Chief Engineer for Structures Design and Construction (D.C.E.S) in Section 718.01 shall be changed to the Engineer.

F. Structural Steel

Material and fabrication requirements for structural steel units shall be in accordance with Section 715.01 of the Standard Specifications with the following exceptions:

1. References to the Deputy Chief Engineer for Structural design and Construction (D.C.E.S.) in Section 715.01 shall be changed to Engineer.

00160.16 PAYROLL RECORDS

The Contractor and any subcontractors shall submit weekly to the Engineer, payroll records which shall cover all days from the commencement of construction to the date of completion.

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.17 PAYMENTS

Prior to payment, the items furnished and or work performed will be inspected by the Purchasing Agent or his/her designee to determine their conformity to the Specifications. No payment will be made for items not meeting specifications.

The Contractor will be required to submit a completed Essex County Claim form in order to receive payment for the work completed.

00160.18 PERMITS

Within the project area there are APA and federal regulated wetlands. These wetlands are protected under Section 401 – Water Quality of the New York State Department of Environmental Conservation Law and Section 404 of the Federal Rules and Regulations. The project will impact these wetlands and wetland mitigation is included in this contract. The project will be progressed under the following permits:

NYSDEC Article 15 Title 5 Stream Disturbance
NYSDEC Article 15 Title 5 Excavation and Fill in Navigable Waters
NYSDEC 401 Water Quality Certification
NYSDEC SPDES Permit
ACOE – Nationwide Permit NW-23
APA Permit(s)

Said permits will be obtained by the owner prior to the start of construction, and the Contractor shall perform all work in strict accordance with the terms and requirements of these permits. A copy of the permit conditions will be made available to the contractor prior to the start of work.

The contractor shall permit access for representatives of the NYSDEC, ACOE, and APA at any time and undertake without cause any remedial action deemed necessary by these Agencies.

00160.19 CLEAN UP

The Contractor shall remove and dispose of all construction and demolition debris from the site and leave the site in a neat condition. The Contractor shall thoroughly clean the work and leave in a new condition.

00160.20 PROTECTION AND RESTORATION OF ADJACENT LANDS

The Contractor shall perform all work with care so as not to damage any private property (mailboxes, fences, plantings, driveways, etc.) during construction. Any private property damaged by the Contractor's operations during construction shall be repaired or replaced in kind, at no additional cost to the property owner of the County.

SECTION 00160
ADDITIONAL INSTRUCTIONS

00160.21 INDEMNIFICATION

The successful Bidder shall defend, indemnify and save harmless the County, Town of North Elba, and Village of Lake Placid, their employees, and agents from and against all claims, damages, losses and expenses (including, without limitation, reasonable attorney's fees) arising out of, or in consequence of, any negligent or intentional act or omission of the successful Bidder, its employees or agents, to the extent of its or their responsibility for such claims, damages, losses and expenses.

00160.22 REMEDY FOR BREACH

In the event of a breach by the Contractor, the Contractor shall pay to the County all direct and consequential damages caused by such breach, including, but not limited to, all sums expended by the County to procure a substitute Contractor to satisfactorily complete the Contract work, together with the County's own costs incurred in procuring a substitute Contractor.

00160.23 SPECIAL NOTES/SPECIFICATIONS

The following Special Notes and New York State Specification Changes attached hereto on the following pages shall be incorporated into the Contract Documents and current New York Sate Standard Specifications.

SECTION 00160
SPECIAL NOTE

EMERGENCY CONTACTS

The Contractor shall employ, for the duration of the Contract a telephone answering service to meet the requirements stated in Section 107-05 of the Standard Specifications.

The answering service shall be equipped to receive calls on a 24-hour basis and promptly contact contractor personnel with the authority and capacity to mobilize forces to respond to an emergency.

The following action shall be taken after an emergency call is received.

A. During Normal Work Hours:

1. The Contractor's responsible person shall respond to the person or agency that initiated the call within 20 minutes from the time the answering service received the call.

2. Immediately following the return call to the initiator, he should contact the Engineer advising of the situation and what action he plans to take. If the Engineer is not reachable at the Project Field Office, he should leave a message on the Engineer's answering machine and contact the County Highway Department at (518) 873-6326 with the same information.

3. The Contractor shall respond to the emergency and make the follow-up confirmatory calls as directed by the Engineer or the County Highway Department.

B. During Non-Working Hours:

1. The Contractor's responsible person shall respond to the person or agency that initiated the call within 20 minutes from the time his answering service received the call. If the call initiated from a person or agency other than the County Highway Department, immediately notify the Engineer of the situation and the action he plans to take by contacting Foit-Albert Associates, P.C. at (518)452-1037 and leave a message.

2. If work is required at the project site, the Contractor's responsible person shall be at the site within one hour from the time of the initiator's original call.

3. Follow-up call within two hours of the original call shall be made to the original caller, the County Highway Department and to Foit-Albert Associates, P.C. advising the status of the emergency and the actions taken. At the same time, a message shall be left on the Engineer's field office answering machine with the same information.

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SECTION 00160
SPECIAL NOTE

CONSTRUCTION SCHEDULE

WORK REQUIRED FOR UTILITY RELOCATIONS

The Contractor must coordinate his schedule of operations with the various Utility owners involved with the project and shall verify utility information found in the contract documents. All Utilities are anticipated to be relocated prior to the start of Construction. Any utility relocations that are not completed by the start of construction will require coordination with the Utility company involved with this project.

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SECTION 00160
GENERAL SPECIAL NOTES

Reconstruction/Rehabilitation of Old Military Road (CR 35) – Phase 1
P.I.N. 1754.96

A. EXISTING PRIVATE PROPERTY MARKERS:

The Contractor's attention is directed to the fact that any existing iron pins, stakes, survey monuments or other markers defining property lines which may be disturbed during construction, shall be properly tied into fixed reference points before being disturbed and accurately reestablished to their proper position upon completion of the work.

The cost of survey to tie and reestablish property marker locations shall be included in the lump sum price bid for item 625.01 – Survey Operations.

B. ITEM 625.01 – SURVEY OPERATIONS

In addition to the proposed work required under Item 625.01 – Survey Operations, the Contractor may also be required to provide for the specific layout of curblines, sidewalks, drainlines, and existing and proposed roadway boundaries for use by the utility companies performing utility relocations within the Contract limits. The nature and extent of this additional survey and stakeout is indicated within Special Notes, "Coordination with the Utility Schedule". The price bid for Item 625.01 – Survey Operations, shall include all work necessary for the survey and stakeout required for the utility relocations.

The Contractor shall perform an existing and post construction profile survey of both rails of the railroad track as outlined in the Special Note – Requiring Coordination with Adirondack Railway Preservation Society. The Contractor shall provide the Engineer with the appropriate profiles as outlined within the special notes.

The Contractor shall perform an As-Built survey of the Wetland Mitigation area in accordance with the provision of Section 00160 – Special Notes – Wetlands. The Contractor shall provide the Engineer with the indicated survey and sections as outlined within the Wetlands Special Notes.

C. COORDINATION WITH EMERGENCY RESPONSE SERVICES:

The State Police, Village of Lake Placid Police Department, Essex County Sheriff's Department, Fire Departments and Ambulance units servicing this area shall be given a minimum of two (2) weeks advance notice of changes in all traffic patterns, including lane closures, necessary to meet construction requirements. Such other agencies including school districts, disaster relief, etc. shall be notified by published notice prior to the inception of any changes in the traffic patterns. The Contractor shall notify the Engineer in a timely manner of any changes in the traffic patterns so the Engineer can make advance notifications.

SECTION 00160
GENERAL SPECIAL NOTES

D. COORDINATION WITH OTHER CONSTRUCTION CONTRACTS

The Contractor shall be aware of any other construction contracts within the area which may be occurring along local Village, Town, or State highways. The Engineer will maintain contact those projects. The Engineer shall coordinate closures between the projects. If the Engineer deems it necessary to suspend work at various times due to traffic issues the Contractor shall comply. Any cost due to work modifications shall be include in other items of work.

E. WINTER SHUTDOWN

In anticipation of the winter shutdown period the contractor shall ensure the following work as a minimum is completed as directed by the engineer and the County.

1. Set all drainage structure top of frames in the proposed pavement to binder course elevations prior to winter shutdown. Structures shall be set to top course pavement elevations during final construction. Alteration of structures from binder course to top course elevations shall be completed in conformance with Section 604 of the Standard Specifications during final construction. Payment for these alterations shall be included under Item 619.01M – Work Zone Traffic Control.

2. Provide asphalt wedges, with suitable bond breakers at all locations there is a difference in the elevation between asphalt courses. Payment shall be included under Item 619.01 M – Work Zone Traffic Control.

3. No delineation devices (i.e. Reflectorized plastic drums, traffic cones, etc.) shall be left in place during winter shutdown. All drop-offs shall be graded to 1 on 4 slopes or as directed by the Engineer.

4. Provide full pavement delineation using Reflectorized pavement marking paint, conforming to Section 640 of the Standard Specifications. Payment shall be included under Item 619.01 M – Work Zone Traffic Control.

All miscellaneous work required to prepare the roadway for winter shutdown shall be included in the price bid for Item 619.01 M – Work Zone Traffic Control.

F. WETLAND BARRIER PROTECTION

Wetlands under the jurisdiction of the U.S. Army Corps of Engineers and APA are located throughout the project. Wetlands will be disturbed by work associated with construction, to the extent indicated on the plans. See general plans GP-1 to GP-19 for the work limits.

SECTION 00160
GENERAL SPECIAL NOTES

The Contractor shall erect a barrier (orange plastic fence with a silt fence installed on the bottom) as shown in the contract documents or as directed by the Engineer to separate the wetland and associated vegetation from the work area. See the General Plans for the location of these barrier locations. This installation shall be done prior to beginning any work at these sites. The work area shall be construed to be the minimum area necessary to construct the project. The actual limits shall be as noted on the plans or as determined by the Engineer. The Contractor shall not dispose of surplus excavated material within the wetlands indicated not to be disturbed or in portions of the disturbed wetlands beyond the toe of slope or as determined by the engineer. The cost for this work shall be paid under Item 615.0402—08 – Tree/Vegetation Protection Barrier.

G. MATERIAL STOCKPILES

The Contractor shall not stockpile earth or other materials in a manner conducive to erosion, or in areas likely to cause high turbidity runoff during storm events. All exposed soils shall be re-vegetated in a timely manner to further reduce potential effects in accordance with the SWPPP.

H. MATERIAL DISPOSAL

The Contractor is advised there are no disposal sites within project available for disposal of excess material. The Contractor shall remove all excess material form the site. Any material stockpiled awaiting disposal shall be stockpiled in upland areas, and be suitably stabilized so that it cannot re-enter any waterway or wetland.

I. EROSION CONTROL DEVICES

The Contractor shall ensure that all synthetic erosion control devices, which are intended for temporary use during construction, are completely removed and properly disposed of after site stabilization has occurred in accordance with the SWPPP. Only natural fiber materials, which will degrade over time, may be used as permanent measures, or if used temporally, may be abandoned in place.

J. ITEM 619.110204 – PORTABLE, VARIABLE MESSAGE SIGN (PVMS)

This contract includes the use of Portable, Variable Message Signs. All Variable Message Signs have a default mode that the signs revert to when the power supply drops below the manufacturer's specified threshold. The default mode on most signs is a preprogrammed static message that is stored in the unit's memory. This stored preprogrammed message can be changed. For purposes of this contract, the default message shall read **"PLEASE DRIVE SAFELY".** The Contractor is responsible for insuring that the default message is preprogrammed as specified before the Message Signs are delivered to the work site. In addition, any inappropriate or nonrelated transportation messages shall be removed from the unit's memory. Failure to comply shall result in the Contractor being assessed one day's liquidated damages for the Work Zone

SECTION 00160
GENERAL SPECIAL NOTES

Traffic Control violations, for each day or portion thereof that the violation occurs within.

K. ITEM 209.1003 – SEED AND MULCH –TEMPORARY

The temporary seed mix shall not include Annual Ryegrass, Cereal Rye or Winter Wheat. The seed mix shall be 100% Perennial Ryegrass. The price bid for Item 209.1003 – Seed and Mulch – Temporary shall include the materials for a seed mix that is 100% Perennial Ryegrass. Mulch shall be as specified in the NYSDOT Standard Specifications under Section 713-11 Wood Fiber or 713-19 straw. The use of 713-18 Hay will not be allowed as mulch.

Seeding is required for long term stabilization as determined by the Engineer.

The Contractor's attention is alerted to the added requirements and stipulations of this Item. The price per square meter of Seed and Mulch – Temporary, includes all cost associated with being able to provide a quality mulch cover, spread in a uniform layer to protect the existing soil layer. Mulching of areas larger than 100 square meters must be completed using mechanical spreaders or blowers, and tacking of the mulch will be required to hold it in place.

Under no condition shall any area of unprotected erodible earth material exposed by clearing and grubbing, excavation, fill or other work within the ROW be left in an unprotected condition for a period greater than 2 days unless according to the Contractor's schedule submitted to the Engineer, the Contractor plans to resume work on that portion of the area within 14 days from which the activity temporarily ceased. However, any portion of an area on which clearing and grubbing, excavation, fill or other work within the ROW had permanently ceased shall be stabilized by either temporary or permanent means. The Contractor will also be aware of impending weather conditions and the need to apply mulch on areas that work is progressing in order to meet the requirements of Section 209 of the Standard Specifications.

Mulching on this project is the primary erosion prevention method to be used. It is included to satisfy permit conditions and other Regulations needed to complete the work proposed in this project. Mulching plays a major role in maintaining the water quality of water bodies and wetlands.

Under no conditions shall the area of unprotected earth material to be exposed at one time by clearing and grubbing, excavation or fill within the right of way exceed 10,000 square meters.

The exception to the mulching requirements shall be proposed mitigation areas. Mulch shall not be used within the limits of the proposed mitigation areas.

SECTION 00160
GENERAL SPECIAL NOTES

L. ITEM 206.05 – TEST PIT EXCAVATION

Test pits shall be utilized when necessary to locate existing underground utilities. An estimated quantity of two (2) for this item is included in the contract for use to locate the signal and gate wires near the Railroad tracks. This work shall be conducted in accordance with the Special Note – Work requiring Coordination with Adirondack Railway Preservation Society. The price bid for locating existing underground utilities shall be included under Item 206.05 M – Test Pit Excavation. Additional test pit may be required by the engineer during installation of the stormwater system.

M. REGISTERED LANDSCAPE ARCHITECT (RLA)

Due to the complexities of the wetland mitigation proposed for this project, the contractor shall employ the services of a Registered Landscape Architect, at the Contractor's cost, to ensure the existing wetlands are protected, identify invasive plants and the wetland mitigation areas are constructed in accordance with the contract documents and the APA, U.S. Army Corps of Engineers, and the NYSDEC permits. The RLA shall be have experience with wetland mitigation and provide proof thereof. The RLA shall provide the Engineer with a written report during the mitigation area construction and shall on a weekly basis inspect the progression of the areas and provide a written report. The RLA shall be available if the necessary arises to meet with representatives of the APA, U.S. Corps of Engineers, and NYSDEC to discuss the mitigation areas. If remedial action is necessary the RLA shall prepare a written report as to the remedial measures necessary and how the measures are to be implemented by the Contractor. The RLA shall also be required to perform the additional special notes as indicated in Section 00160 – Wetlands.

N. TOPSOIL STRIPPING AND USE

The Contractor at their option and with the Engineer's approval, will strip, stockpile and reuse the existing topsoil from those areas with the work limits. Topsoil shall not be stripped for reuse from any area containing Phragmites, Purple Loosestrife, Japanese Knotweed and any other noxious/invasive plants. These areas shall be identified by the Contractor's RLA and approved by the Engineer. The topsoil stripping shall be limited to the "A" soil horizon, the depth to be determined by the Engineer in consultation with the Contractor's RLA. The stripping of the topsoil shall be paid for under Item 203.02 M – Unclassified Excavation and Disposal all other costs associated with this work shall be included in the price bid for Items 613.02 M- Placing Topsoil Type A and 613.0101 M – Wetland Topsoil.

O. UNPAVED ROAD SURFACE

Traffic shall not be allowed to travel on an unpaved roadway surface (gravel) for more than 15 calendar days. The contractor shall place hot mix asphalt, type to be approved by the engineer, on the roadway.

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SECTION 00160
SPECIAL NOTE

INSTALLATION SEQUENCE FOR NEW 300 MM (12") Water Main

Following is the sequence of work the contractor is to follow for installation of the new 300 mm (12") water main. The contractor shall provide the Engineer and the Village of Lake Placid Water Department for approval a sequence of work prior to beginning the installation.

The sequence calls for restraining the existing water main. The contractor shall propose a method of restraint to the Engineer and Village of Lake Placid Water Department for approval. The cost of the restraints necessary to include, the cost of labor, materials and equipment shall be included in the price bid for other items of the contract.

WORK SHALL NOT BEGIN ON THE NEW WATER MAIN INSTALLTION UNTIL THE DEPARTMENT OF HEALTH PERMIT IS RECEIVED.

Sequence

1. Install the new 12 NPS DIP water main and casing as shown on the utility water main plans. Stop short of new connection on the north and south limits of the new water main.

2. Install all new hydrants as the main is installed.

3. Flush the new main utilizing the two new hydrants installed in accordance with the Village of Lake Placid Water and Sewer Department guidelines.

4. Make any necessary service connections to the new main.

5. Shut down the existing water main at location to be determined by the Lake Placid Water and Sewer Department. Make new connections @ Sta WM 5+000 and WM 5+265.

6. Once work has started on the new water main, work shall continue until the main is installed and the new services are connected.

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SECTION 00160
SPECIAL NOTES

WATER MAINS AND APPURTENANCES

DESCRIPTION:

Water main facilities and/or appurtenances shall be constructed or altered as shown on the Plans or where directed by the Engineer. Where "AWWA" or "ANSI" specifications are noted, the most recent revision of that specification shall apply.

MATERIAL

The pipe used shall be Class 52 ductile iron, centrifugally cast pipe conforming with ANSI A21.51 (AWWA C151), and shall have a rated working pressure designated by the size of the pipe.

Fittings shall conform with ANSI/AWWA C110/A21.11 or ANSUAWWA C153/A21.53 or as approved by owner.

All pipe and fittings shall be lined with cement-mortar on the inside and shall have a petroleum asphaltic coating on the outside. The cement-mortar lining shall conform with ANSI A21.4 (AWWA C104). The thickness of the lining shall be double the standard thickness required by this specification, but in no case less than 3 mm thick for all pipes. Asphaltic coating shall conform to ANSI A21.51.

Fitting joints shall be rubber-gasket joints, mechanical type, and shall conform with ANSI A21.11 (AWWA C111).

Pipe joints shall be push-on in conformance with ANSUAWWA C111/A21.22. Where thrust restraint is required, pipe joints shall be mechanical joints in conformance with ANSUAWWA C111/A21.22.

All valves shall be resilient wedge valves and be manufactured in accordance with AWWA C509. They shall have mechanical joint ends. The direction of turning to open the valves shall be to the left.

Valve boxes shall be adjustable type. The adjustment shall be sufficient for any depth of water main which may occur. The covers shall have the word "WATER" cast in the top and have an arrow indicating the direction of valve opening.

OWNER:
MUNICIPALITY: VILLAGE OF LAKE PLACID WATER AND SEWER DEPARTMENT
ADDRESS: 2693 MAIN STREET
CITY, STATE, ZIP: LAKE PLACID, NY 12946
PHONE #: (518) 523-3612
CONTACT
WATER DEPT.: BRAD HATHAWAY, SUPERINTENDENT

SECTION 00160
SPECIAL NOTES

WATER MAINS AND APPURTENANCES

Pipe:

Type of Material: 12 NPS Ductile Iron Pipe - Class 52
8 NPS Ductile Iron Pipe - Class 52
6 NPS Ductile Iron Pipe - Class 52

Pressure/Thickness Class :

Lining: Cement Mortar-Lined
Type of Joint: Rubber gasket push-on joint
Bedding Requirements: 4" Sand or 4" Stone (in wet conditions)

Fittings: (Compact Ductile Iron (C153) required unless otherwise noted)
Tee bolts and nuts shall be manufactured by Mueller or equal

Thrust Restraint Type:

Horizontal Bends:
Vertical Bends: All Joints shall be harnessed.
Tees And Crosses: Use Megalug or Field Lok harnessed joints.
Valves: Length to be determined using DIPRA harnessing calculations.
Hydrants:
Reducers

Valves:

Manufacturer: Mueller
Type: AWWA C509 - Resilient Wedge Gate Valve
Open Direction: Right - w/ 2" Opening Nut
Valves may be operated by either or under the direct supervision of the City Lake Placid
*All valve body and bonnet bolts must be ASTM A320 Grade B8 Stainless Steel

Valve Boxes: (Slide type adjustable required unless otherwise noted)
Type: _____

Hydrants:

Manufacturer: Mueller
Model: Super Centurion w/ 5 1/2" Main Valve
Pumper Nozzle (Qty, Thread, and Size): (1) 5" Nominal Stortz Quick Connect
Hose Nozzle (Qty, Thread, and Size): (2) 2 1/2"
Size/ Shape of Operating Nut: 1 1/2" Pentagon Operating Nut
Depth of Bury: 5'-6"
Color: Red

SECTION 00160
SPECIAL NOTES

WATER MAINS AND APPURTENANCES

Service Connection Materials: - All services to be Type K Copper

Corporation Stop:

Type:	Oriseal Type Compression Joint
Manufacturer:	Mueller
Connection Size:	As Required

Curb Stop:

Type:	Oriseal Type Compression Joint
Manufacturer:	Mueller
Connection Size:	As Required

Curb Box:

Type:	Screw Type w/ 2-Hole Caps
Manufacturer:	Mueller
Connection Size:	As Required

Water Meters:

Type:	Not required
Manufacturer:	Not required
Connection Size:	Not required
Remote Sensing:	Not required

SECTION 00160
SPECIAL NOTES

WATER MAINS AND APPURTENANCES

CONSTRUCTION DETAILS:

General. All work shall be done in accordance with the Plans and the specifications, and shall be completed to the satisfaction of the Engineer and the owners of the water system.

The contractor shall make all necessary arrangements, obtain all permits, and pay all charges as required to satisfy the requirements and regulations of the owner of the water system.

Prior to the start of work, the Contractor shall prepare and submit for approval to the Engineer, schedules of the proposed sequence of work, and drawings or catalog cuts of the water pipes and appurtenances comprising the work.

The locations of the existing mains as shown on the Contract Plans are approximate. The Contractor shall determine the exact locations of such pipes and submit details for connecting the existing pipe to the proposed main for the Engineer's approval before ordering new pipe.

Damage to existing facilities due to the Contractor's operations shall be repaired or replaced at the Contractor's expense.

Shutdowns. A shutdown of any portion of water service to make connections to existing mains shall be made only by the owner of the water system. The Contractor shall provide a minimum of twenty-four (24) hours notice to the owner of the water system prior to each shutdown. The local fire department shall be advised by the Contractor when water service is to be shut down, as well as all affected consumers.

When service is interrupted to relocate a water main, the Contractor shall, when ordered by the Engineer, provide temporary service connections.

When existing water mains are replaced with new mains, necessary building reconnections shall be made in accordance with the details as shown on the Plans or as ordered by the Engineer. The Contractor shall give at least forty-eight (48) hours notice to each consumer prior to interruptions of service.

Excavation and Backfill. Installation details and payment lines shall be as shown in the contract plans.

SECTION 00160
SPECIAL NOTES

WATER MAINS AND APPURTENANCES

Lines and Grades. Subsection 603-3 of the Standard Specifications shall apply.

In addition, pipes shall be laid so that the centers form a straight line parallel to the required grade. Pipes shall be laid to a grade required to pass under drains, ducts, etc., as directed by the Engineer, and at an elevation below the frost line as determined by the Engineer and owner of the water system.

Hydrants and valve box castings are also to be set to grade and location as directed by the Engineer.

Valves shall be installed where shown on the Plans or where ordered by the Engineer during the progress of the pipe laying. Valve boxes shall be set plumb over the center of the valve and to the proper grade. Any valve box which has moved sufficiently from the original position so as to prevent the application of the valve key, shall be satisfactorily reset by the Contractor at his expense.

Hydrants. All hydrant assemblies shown on the Plans to be removed or replaced shall be carefully dismantled, cleaned and stored in locations designated by the Engineer within the job site for pick-up by Village Of Lake Placid Water and Sewer Department. The Contractor shall take special precautions to prevent damage to the hydrant assembly in disconnecting, moving and re-assembling. Any component part damaged due to the Contractor's operations shall be replaced at his own expense.

Hydrants shall be installed during the laying of pipe. The hydrants shall be set at the proper locations, plumb, and to the correct grade and height as specified by the owner. They shall be carefully checked and placed in first class operating condition before installation and painting. Crushed stone shall be placed around the hydrant at the hydrant drip location to drain the hydrant. The hydrant drainage material shall meet the specifications of Section 501-2.02, Table 501-2, Type CA2 of the NYS Standard Specifications.

Alternate hydrant location layout shown on NYSDOT Standard Sheet M663-5 may be use only with permission of Village of Lake Placid Water and Sewer Department. Concrete collars shall not be placed around the barrel of the hydrant. The distance between the watermain and the valve box is preferred to be as close as possible.

Payment for removal, relocation or installation of hydrant assemblies shall be made under their appropriate items.

Plugs. The Contractor is prohibited from laying any pipes, fitting, or other appurtenances except under direct supervision of the Engineer. At times when pipe laying is not in progress, the open ends of the pipe shall be kept plugged and watertight with rubber and metal pipe stoppers or other means approved by the Engineer.

SECTION 00160
SPECIAL NOTES

WATER MAINS AND APPURTENANCES

Thrust Restraints. All fittings, hydrants, valves, etc., shall be restrained as shown on the Plans and as approved by the Engineer and the owner of the water system. The method or combination of methods shall be approved by the Engineer and accepted by the owner. All methods of thrust restraint shall be designed and installed to resist the maximum pressure on the system.

Pipe Installation. Excess coating, blister, etc., shall be removed from the bell and spigot end of each pipe, and the outside of the spigot and the inside of the bell shall be wire brushed and wiped clean and dry before the pipe is laid.

Every precaution shall be taken to prevent foreign material from entering the pipe while it is being placed. All pipe connections shall be made in the trench. No joining of pipes will be allowed before lowering and setting in the trench. Pipe shall be placed with bell ends facing in the direction of laying. The spigot end shall be centered in the bell and the pipe forced home and brought to correct line and grade.

Hydrostatic Testing. Hydrostatic pressure and leakage test shall be performed in accordance with AWWA C600. Prior to formal testing, the mains shall be thoroughly flushed and an air blow off installed at the water main high point. Hydrostatic pressure and leakage tests shall be made on services (water mains, valves, fittings, etc.) having diameters larger than 50 mm. 'The total leakage per day shall not exceed the amounts allowable under AWWA C600. The system shall be subjected to the pressure/leakage test with water under a hydrostatic pressure of 1379 kPa, unless otherwise specified, for two (2) hours.

Disinfection. Upon completion of all water supply related construction, all mains, valves, hydrants and other appurtenances built under this contract shall be disinfected, flushed and tested for bacteriological quality in accordance with AWWA C601, except that tablets shall not be used for chlorination. The Contractor shall furnish the Engineer with favorable test results before any water is to be consumed.

BASIS OF PAYMENT:

Unless otherwise specified, the contract prices shall include the furnishing of all labor, material and equipment required to complete the work. No separate payment will be made for the temporary supporting of existing mains or other utilities encountered, permits, shut-offs, testing, disinfecting, thrust restraints, temporary connections, hauling, loading, storing, temporary bulkheads, and cutting existing water main to install any fittings, but the costs shall be included in the contract prices for the various watermain items.

Unless otherwise specified, excavation and backfill will be paid for separately under Item 206.02M or 206.04 M, Trench and Culvert Excavation and Item 203.07M, Select Granular Fill, respectively.

SECTION 00160
SPECIAL NOTES

Wetlands

Wetland Disturbance – The contractor will construct the new, re-aligned portion of Old Military Road in the vicinity of the bridge over the Chubb River prior to the construction of the Wetland Mitigation area. During the construction of the new road alignment, the contractor will remove and stockpile the soils in the area identified as Wetland A in accordance with Item 613.01 01 – Wetland Topsoil.

Stream Disturbance – The areas around the existing bridge over the Chubb River will be excavated to allow for the construction of the new bridge. The materials disturbed and/or excavated in this area of the project shall be done so in accordance with Item 613.04 01 – Stockpiling and Placing Streambed Materials.

The area along the new roadway where mitigation will take place will be done in accordance with Wetland Mitigation shown in the Contract Plans.. The mitigation area construction will not begin until the construction of the new portion of roadway has been completed.

The contractor shall take all reasonable precautions to comply with current federal, state, and local requirements to prevent the spread of any invasive plant species. Specifically, the Contractor shall actively work to prevent the spread of *Phragmites australis* (common reed), *Lythrum salicaria* (purple loosestrife), *Polygonum cuspidatum* (Japanese knotweed) and any other noxious or invasive plants identified. Such actions shall include but are not limited to the cleaning of all equipment suspected of containing the roots, seeds, or other viable parts of the invasive plant species; such equipment might include excavators and trucks used for transportation and movement of excavated soil or topsoil, stone, organic matter, trees, shrubs or other similar material. Cleaning shall be accomplished prior to equipment arriving at the work site and before each piece of equipment leaves the site. This equipment cleaning will help to prevent the propagation and movement of invasive species from one project site to another. This is especially critical in areas where no invasive species currently exist and the habitat is pristine regulated wetland. Spoil areas, if required, shall be approved by the APA for the disposal of soil suspected of including invasive species.

Construction of the mitigation will begin after issuance of the USACE permit and in accordance with the notification requirements of the permit. Although most of the vegetation in the mitigation wetland is shrub/scrub, any required tree clearing will be in accordance with the date restrictions identified in the permit.

As-built plans with the new wetland boundary delineations and cross-sections will be prepared and submitted with a report to the USACE New York Field Office. The as-built report will be submitted following completion of construction and survey noted below.

A survey will be will be conducted as soon as practical after all the mitigation has been completed. The survey will be done to locate the as-built mitigation and restoration wetland boundaries of the scrub/shrub, emergent wetland and shallow open water

excavations, with elevation features, and to determine their surface area. Surface elevations will be taken along the edge of the areas and at 10 foot intervals along cross sections. The as-built conditions will be shown in both plan and section views as appropriate.

Prior to construction, a visual recheck of Wetland A will be made by a Wetland Specialist to determine if any of the undesirable invasive species listed above occur in the existing wetland. If invasive species are encountered care will be taken during construction to limit the potential spread of seed, roots, or topsoil containing the invasive species into the mitigation wetland.

Historic Highway

The reconstruction of Old Military Road contains a New York State Office of Parks, Recreation, and Historic Preservation (NYS OPRHP) component where an investigation to determine the potential for the historic Old Military Road being beneath the existing roadway must be conducted prior to any major construction disturbance. The investigation will include the excavation of test pits at various locations along the construction alignment. The purpose of the investigation is to determine if the original historic roadway is beneath the existing Old Military Road and to determine the construction methods used during that period. The approved Old Military Road Historic Highway Investigation Plan (Plan) has been submitted to the NYS OPRHP. This Plan will be the basis of the investigation and the contractor will be required to allow for this work to take place prior to major roadway disturbance. The Plan is provided as an attachment to the Bid Documents. Work under this Item shall be in accordance with and paid for under the various contract Items as shown in the contract plans. Prior to the work beginning there will be a conference with the County, Engineer, Archeologist and contractor. The contractor shall provide all assistance necessary, including but not limited to; traffic control, placement of the detour for the excavation area at Averyville Road, excavation, trench protection, backfilling of the trench, and placement of pavement, removal of traffic control devices and the detour. The method used at the Averyville Road location will be the same as for Rickii Hill location.

SECTION 00160

HISTORIC HIGHWAY

1. THE RECONSTRUCTION OF OLD MILITARY ROAD CONTAINS A NEW YORK STATE OFFICE OF PARKS, RECREATION, AND HISTORIC PRESERVATION (NYS OPRHP) COMPONENT WHERE AN INVESTIGATION TO DETERMINE THE POTENTIAL FOR THE HISTORIC OLD MILITARY ROAD BEING BENEATH THE EXISTING ROADWAY MUST BE CONDUCTED PRIOR TO ANY MAJOR CONSTRUCTION DISTURBANCE. THE INVESTIGATION WILL INCLUDE THE EXCAVATION OF TEST PITS AT VARIOUS LOCATIONS ALONG THE CONSTRUCTION ALIGNMENT. THE PURPOSE OF THE INVESTIGATION IS TO DETERMINE IF THE ORIGINAL HISTORIC ROADWAY IS BENEATH THE EXISTING OLD MILITARY ROAD AND TO DETERMINE THE CONSTRUCTION METHODS USED DURING THAT PERIOD.

2. THE APPROVED OLD MILITARY ROAD HISTORIC HIGHWAY INVESTIGATION PLAN (PLAN) HAS BEEN SUBMITTED TO THE NYS OPRHP. THIS PLAN WILL BE THE BASIS OF THE INVESTIGATION AND THE CONTRACTOR WILL BE REQUIRED TO ALLOW FOR THIS WORK TO TAKE PLACE PRIOR TO MAJOR ROADWAY DISTURBANCE. THE PLAN IS PROVIDED AS AN ATTACHMENT TO THE BID DOCUMENTS FOR CONTRACTOR'S REFERENCE ONLY. REFER TO SHEETS ARCH-1 AND ARCH-2 IN THE CONTRACT DOCUMENTS. THERE WILL BE A MEETING BETWEEN THE ENGINEER, COUNTY, CONTRACTOR, RESIDENT ENGINEER, AND ARCHAEOLOGIST PRIOR TO BEGINNING THE EXCAVATIONS.

3. THE FIRST HISTORIC INVESTIGATION WILL BE CONDUCTED AT THE APPROVED LOCATION ALONG OLD MILITARY ROAD NEAR THE INTERSECTION OF AVERYVILLE ROAD. THE SECOND HISTORIC INVESTIGATION WILL BE CONDUCTED AT THE APPROVED LOCATION ALONG OLD MILITARY ROAD ON RIKKI HILL AFTER THE DETOUR IS IN PLACE AND THE ROAD HAS BEEN CLOSED.

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SECTION 00160
SPECIAL NOTE – UTILITY DISPOSITION
"COORDINATION WITH THE UTILITY SCHEDULE"

P.I.N. 1754.96

The contractor shall coordinate his schedule of operations with the various Utility owners involved with the project and shall verify utility information found in the contract documents. The following utility relocation work to be performed by the respective utility companies may occur concurrently with the Contractor's operation on this project. However, the respective utility companies are expected to have their utilities relocated before the contractor mobilizes at the site. An on-site meeting will be held approximately two (2) weeks after the contract letting to finalize any remaining utility coordination, if necessary.

Lake Placid Municipal Electric, Inc. (LPME) – existing utility poles and overhead lines. Lake Placid Municipal Electric has existing utility poles and overhead utility lines throughout the project. The utility lines have been relocated except for 2 poles in the vicinity of the new Chubb River structure.

Prior to performing any work on private property, Lake Placid Municipal Electric will obtain all necessary easements. Any clearing necessary for relocation of the last tow poles will be completed by the contractor is the poles are not relocated prior to the beginning of the contractor's operations.

Lake Placid Municipal requires 2 weeks notification of when the actual relocation work can begin. Lake Placid Municipal facilities will be relocation in 6 weeks following verification of the pole stakeout. The Essex County Department of Public Works anticipates that the Lake Placid Municipal Electric relocation work will be completed in advance of the Notice to Proceed to the contractor.

Lake Placid Municipal Electric contact is:

Peter C. Kroha, Electrical Superintendent
2693 Main Street
Lake Placid, NY 12946
Tel (518) 523-2021
Fax: (518) 523-9910
Cel: (518) 523-2021
electric1@lpvillage.org

SECTION 00160
SPECIAL NOTE – UTILITY DISPOSITION
"COORDINATION WITH THE UTILITY SCHEDULE"

P.I.N. 1754.96

Time Warner Cable – existing overhead lines. Time Warner has overhead lines throughout the project which require relocation. Underground fiber is also present along the road corridor up to Sta 2+000 ±. The existing utility lines and have been relocated to new utility poles installed by Lake Placid Municipal Electric.

Time Warner Cable requires 10 working days advance notice if work needs to be done and their relocation to be completed 6 weeks after Lake Placid Municipal Electric has set the poles and completed all relocations of their facilities including primary and secondary wires to the new poles, with 10 working days advanced notice.

Time Warner Cable contact is:

Bill Rogers
Project Coordinator
277 Andrew St., PO Box 180
Massena, NY 13662
Tel: (315) 769-5209 ext 48501
Fax: (315) 764-1494
Bill.Rogers@twcable.com

Verizon Telephone – existing service poles and overhead lines. Verizon has overhead lines have been relocated throughout the project. The existing utility lines and poles have been relocated to new utility poles installed by both Lake Placid Municipal Electric and Verizon.

Verizon expects their relocation to be complete 90 days after Time Warner Cable has moved their lines, with 10 working days advanced notice.

Verizon contact is:

Larry D. Bose
Tel: (518)-563-9864
Larry.D.Bose@verizon.com

In addition to the above itemized revisions, other relocations may become necessary during the construction phase as a result of more precise location data or other changes that might develop. Theses relocations are to be performed by the Utility owners with coordination by the Contractor.

SECTION 00160
SPECIAL NOTES

All applicable Engineering Instructions and Engineering Bulletins which have been issued by the NYSDOT to modify the "New York Standard Specifications of May 4, 2006 are made part of the Contract although they are not included with the Contract Documents. They are available to be viewed and downloaded at the New York State Department of Transportation website at (www.dot.ny.gov). It shall be the Contractors responsibility to implement the most current and complete Standard Specifications.

UPDATES AND MODIFICATIONS TO 2006 STANDARD SPECIFICATIONS (NYSDOT)

Prospective bidders are hereby notified that the NYSDOT Standard Specifications for Construction and Materials dated May 4, 2006, has been updated multiple times by NYSDOT. The NYSDOT's website contains an unofficial copy of updated Standard Specifications. It is located at:

https://www.dot.ny.gov/portal/page/portal/main/business-center/engineering/specifications/updated-standard-specifications

The responsibility of maintaining an up-to-date copy of the Standard Specifications lies solely with the prospective bidders and as such, the references provided herein are for informational purposes only. In order to obtain all updates and modifications to the Standard Specifications, prospective bidders should consult the NYSDOT's Engineering Information Issuance System, which is located at:

https://www.dot.ny.gov/portal/page/portal/main/business-center/consultants/forms-publications-and-instructions/engineering-information-issuance-system

Prospective bidders who do not have a copy of the Standard Specifications may download a copy from the following website:

https://www.dot.ny.gov/portal/page/portal/main/business-center/engineering/specifications

Alternatively, prospective bidders who do not have a copy of the Standard Specifications may order a copy by contacting the NYSDOT Plan Sales Unit at:

NYSDOT Plan Sales Section
50 Wolf Road, 1st Floor
Albany, New York 12232
tel. (518)-457-2124
fax. (518)-457-2642

SECTION 00160
SPECIAL NOTES
EI – EB LIST

All applicable Engineering Instructions and Engineering Bulletins which have been issued by the NYSDOT to modify the "New York Standard Specifications of May 4, 2006 are made part of the Contract although they are not included with the Contract Documents. They are available to be viewed and downloaded at the New York State Department of Transportation website at (www.dot.ny.gov). It shall be the Contractors responsibility to implement the most current and complete Standard Specifications. The following list is through December 27, 2011. The Contractor is responsible to obtain and incorporate any revisions after this date.

Type	Document Number	Title	Issue Date
EB	11-038	Procedures for Locally Administered Federal-Aid Projects (PLAFAP) Manual Chapter 4, State-Local Agreements, and Chapter 4 Appendices and Forms	11/30/2011
EB	11-040	Fuel, Asphalt & Steel Price Adjustments (December 2011)	11/30/2011
EB	11-025	Revised Standard Sheets - Water Main (Horizontal and Vertical) Thrust Restraint Details 663-02, M663-2R1, 663-03, and M663-3R1	11/01/2011
EB	11-034	Standard Sheet Revision: Heavy Post Block-Out (HPBO) Corrugated Beam Guide Railing and Median Barrier Height Change	10/11/2011
EI	11-014	Electronic Professional Seals	10/11/2011
EI	11-020	Deletion of Standard Specifications Sections 303, 403, 618 and 703-09	10/03/2011
EI	11-019	Section 737 - Geosynthetics	10/03/2011
EB	11-035	The Environmental Manual (TEM) 4.4.16.3 Congestion Mitigation and Air Quality	09/28/2011
EI	11-016	Standard Specifications - Section 619 Work Zone Traffic Control	09/21/2011
EI	11-017	Standard Specifications - Section 727 Pavement Marking Materials	09/21/2011
EI	11-018	Standard Specifications - Section 729 Temporary Traffic Control Devices	09/21/2011
EB	11-032	Procedures for Blasting (GEM-22)	09/16/2011
EI	11-015	107-05 Safety and Health Regulations	09/16/2011
EB	11-033	Index Prices for Use With Quality Adjustment Items	09/07/2011
EB	11-030	Traffic Monitoring Standards for Contractual Agreements	08/22/2011
EB	11-029	NYSDOT CADD Software Standards	08/10/2011
EI	11-013	Statewide Emergency Bridge Contract: Guidance	08/02/2011

EB	11-028	Procedures for Locally Administered Federal Aid Projects (PLAFAP) Manual, Chapter 15, Administer Construction Contracts, Related Appendices and Forms	07/27/2011
EI	11-011	Revision to Standard Specification 733-20 Underdrain Filter Material	07/26/2011
EI	11-012	Revisions to Standard Specifications 555 - Structural Concrete & 582 - Removal and Replacement of Structural Concrete	07/25/2011
EB	11-026	Removal of Prospec Blendcrete from the NYSDOT Approved List	07/22/2011
EB	11-024	Addendum #2 to the 2008 NYSDOT Bridge Manual - US Customary	07/06/2011
EI	11-008	Revisions to Standard Specifications Section 551 Piles and Pile Driving Equipment, 720-04 Steel H-Piles and 720-06 Mechanical Pile Splices	07/06/2011
EI	11-009	New Standard Specification Section 709-15 Grouted Reinforcing Bar Splice Sleeves	07/06/2011
EB	11-021	Procedures for Locally Administered Federal Aid Projects (PLAFAP) Manual, Chapter 10 Railroads and Utilities,Chapter 10 Appendices and Forms	06/24/2011
EB	11-022	Procedures for Locally Administered Federal-Aid Projects Manual, Chapter 1 Introduction and Overview	06/22/2011
EB	11-013	Standard Sheet Revisions	06/21/2011
EI	11-010	Release to Perform Contract Work on Private Land	06/21/2011
EI	11-005	Revision to Hot Mix Asphalt Section 401 - Plant Production	06/07/2011
EB	11-020	Procedures for Locally Administered Federal-Aid Projects (PLAFAP) Chapter 17 State-Local Agreement Close-out, Chapter 17 Appendices and Forms	06/01/2011
EB	11-017	Bridge Diving Inspection Manual Revision	05/26/2011
EI	11-007	Revision to Standard Specifications Section 100 - Appendix A	05/26/2011
EI	11-006	Revisions to Standard Specification - Section 502, 555 and 711-07	05/25/2011
EB	11-018	The Environmental Manual (TEM) 4.4.18 Noise Analysis Policy and Procedures	05/20/2011
EI	11-004	Revisions to Standard Specification 562 - Reinforced Concrete Three-Sided Structures and 706-17 Precast Concrete Box Culverts	05/19/2011
EB	11-015	Highway Design Manual Revision No. 63 - Chapter 19 - Reinforced Concrete Box Culverts and Similar Structures	05/19/2011
EB	11-016	The Environmental Manual (TEM) 4.4.3 Wild, Scenic, and Recreational Rivers	05/16/2011
EI	11-003	New Specification for Asphaltic Plug Joints for Bridges	04/28/2011
EB	11-011	Elimination of Paper Forms for Construction Civil Rights	04/20/2011

EB	11-010	Highway Design Manual Revision No. 62 - Chapter 21 - Contract Plans, Specifications and Estimate and Chapter 5 - Basic Design	04/13/2011
EB	11-012	Eliminate the Overload Vulnerability Assessment Procedure and Rescind the Overload Vulnerability Manual	04/11/2011
EI	11-002	Revisions to Standard Specifications 602 - Rehabilitation of Culvert and Storm Drain Pipe	04/02/2011
EB	11-008	Highway Design Manual Revision No. 61 - Chapter 8 - Design Guidelines for Rehabilitation of Culvert and Storm Drain Pipe	03/25/2011
EB	11-006	Standard Sheets for 646: Delineators, Reference Markers and Snowplowing Markers	03/14/2011
EB	11-007	Procedures for Locally Administered Federal-Aid Projects Manual, Chapter 9 Design Standards and Construction Specifications	03/02/2011
EB	11-004	Procedure for Taking Random Samples of Backfill Material for Mechanically Stabilized Earth Systems- Geotechnical Control Procedure (GCP-20)	02/28/2011
EI	11-001	Mechanically Stabilized Earth System Backfill Material	02/28/2011
EB	11-003	Production and Distribution of Construction Contract Bid Documents	02/09/2011
EI	10-041	Use of Off-site Detours for Rural Work Zone Traffic Control During Construction	01/31/2011
EB	10-050	Changes to Procedures for Advertisement of Solicitations in the New York State Contract Reporter (NYSCR)	01/03/2011
EB	10-051	Procedures for Locally Administered Federal-Aid Projects Manual, New Internet Web Page Location	01/03/2011
EB	10-052	Project Development Manual Appendix 7 - Exhibit 7-1 Revisions	12/31/2010
EI	10-039	Section 704 - Masonry Units	12/29/2010
EI	10-038	Section 552 - Externally Stabilized Cut Structures	12/29/2010
EI	10-037	New Standard Specification Section Numbers	12/21/2010
EI	10-035	Standard Specifications - 637, Engineers Field Office, Laboratory and Equipment	11/12/2010
EI	10-034	Section 552 - Externally Stabilized Cut Structures	11/12/2010
EI	10-033	Section 715 - Castings, Forgings, and Metals	11/03/2010
EI	10-028	Guidance for Complying with US Army Corps of Engineers Regional Conditions for Nationwide Permits	11/01/2010
EI	10-031	Section 554 - Fill Type Retaining Walls	10/29/2010
EB	10-042	Highway Design Manual (HDM) Revision No. 60 Chapter 9 - Soils, Walls, and Foundations	10/29/2010

EB	10-041	Standard Sheets for Section 554 - Fill Type Retaining Walls	10/28/2010
EB	10-048	Programmatic Executive Order 11990 Wetland Finding Guidance	10/27/2010
EI	10-032	Revision to Standard Specification 728-06 Sheet Gasket (Treated Both Sides)	10/22/2010
EB	10-045	Prime Contractor Prompt Payment Reporting Requirements for their Subcontractors and Material Suppliers Including Certified DBE Firms on All FHWA Funded Local Construction Projects	09/30/2010
EB	10-029	Addendum #1 to the NYSDOT Steel Construction Manual, 3rd Edition	09/20/2010
EB	10-043	Interpretive Guidance for the NEPA Assessment Checklist	09/16/2010
EI	10-027	Revision to Section 608 - Sidewalks, Driveways and Bicycle Paths	09/03/2010
EB	10-031	Highway Design Manual Revision No. 58 - Chapter 27 - Highway Rest Areas and Roadside Parking Areas	09/01/2010
EB	10-037	Standard Sheets 649-01 and M649-01 - Audible Roadway Delineators	08/31/2010
EI	10-030	Rumble Strips - Centerline Audible Roadway Delineators (CARDS) - Guidance and Policy	08/31/2010
EB	10-034	Box Beam Stiffening of Temporary Concrete Barrier	08/31/2010
EI	10-029	New Standard Specification Section 649 - Audible Roadway Delineators	08/31/2010
EB	10-038	Index Prices for Use With Quality Adjustment Items	08/27/2010
EB	10-039	Standard Sheets 606-04 and M606-55R1	08/26/2010
EB	10-036	The Environmental Manual (TEM) 4.4.6 Coastal Resources	08/12/2010
EI	10-024	NYSDEC Wetlands Permit Application Fee Guidance for NYSDOT Actions	08/12/2010
EI	10-025	Section 737 - Geosynthetics	08/10/2010
EB	10-030	Micropile Inspector Guidelines - Geotechnical Engineering Manual (GEM-25)	08/10/2010
EB	10-033	MURK Part 1A Contract Administration Manual (CAM) Subcontractor Insurance Requirements	08/09/2010
EB	10-032	Procedures for Locally Administered Federal-Aid Projects (PLAFAP) Manual, Chapter 16 Federal and State Single Audit Requirements	08/06/2010
EB	10-006	Project Development Manual Revisions to Appendix 9, Value Engineering in Design	07/30/2010
EB	10-035	Highway Design Manual Revision No. 59 - Revision to Chapters 2,5,7,8, and 19	07/30/2010
EB	10-028	The Environmental Manual (TEM) 4.4.19 Asbestos Management	07/28/2010
EI	10-022	Standard Specifications - 704 Masonry Units	07/22/2010
EI	10-023	Section 605 - Underdrains	07/21/2010

EB	10-020	Standard Sheets for 646: Delineators, Reference Markers and Snowplowing Markers	07/20/2010
EI	10-020	Revisions to Standard Specification - Section 646	07/20/2010
EB	10-026	Data Compliance Review for Final Payment for American Recovery and Reinvestment Act (ARRA) Projects	07/12/2010
EB	10-025	Estimator Version 2.7a Software Upgrade	07/02/2010
EI	10-026	Standard Specification Changes for New Box Beam End Assembly Type IIA, Disapproval of Type II End Assembly, and A588 Rail Components	07/02/2010
EB	10-021	Highway Design Manual Revision No. 57 - Chapter 10- Roadside Design, Guide Rail, and Appurtenances	06/28/2010
EB	10-024	Update to the USC and Metric Substructure Bridge Detail Sheets	06/28/2010
EI	10-019	Transition to the 2009 Manual on Uniform Traffic Control Devices (MUTCD) Part 6 Temporary Traffic Control	06/25/2010
EB	10-019	Adoption of the 2009 National Manual on Uniform Traffic Control Devices	06/25/2010
EB	10-018	Safe Clearance Distances Between Traffic Signal Equipment & Utility Lines	06/11/2010
EI	10-017	Revisions to Standard Specifications Section 100 - Electronic Plans and Amendments	06/08/2010
EI	10-016	Inspection Flagging Procedure for Bridges	06/02/2010
EI	10-015	Section 620 - Bank and Channel Protection	05/17/2010
EI	10-014	Special Specification for Subbase Course, Type 1011-2	05/05/2010
EI	10-008	Utility Trench Excavation	05/05/2010
EI	10-013	NYSDOT LRFD Bridge Design Specifications - US Customary - 2010	04/22/2010
EB	10-012	Addendum #1 to the US Customary NYSDOT Bridge Manual	04/19/2010
EI	10-009	Revision to Section 402 - Hot Mix Asphalt (HMA) Pavements	04/16/2010
EI	10-010	Standard Specification Section 654 - Impact Attenuators - Permanent	04/14/2010
EI	10-012	Shoulder Edge Wedge for Hot Mix Asphalt (HMA) Pavements	04/14/2010
EI	10-011	Design Guidance for Section 654 Impact Attenuators - Permanent	04/14/2010
EI	10-007	Diesel Emissions Reduction Act (DERA) Regulatory Compliance	03/09/2010
EI	10-006	Insurance Requirements for Construction Contracts	02/25/2010
EI	09-036	Revision to 713-07- Rolled Erosion Control Products and Soil Stabilizers	02/09/2010
EI	09-035	Revised Specification Section 209- Soil Erosion and Sediment Control	02/09/2010
EI	10-001	Special Specification for Thin Polymer (Epoxy) Overlays for Structures	02/05/2010
EI	10-002	Section 212 - Rock Slope Reinforcement and Catchment Systems	01/27/2010

EI	10-003	New Standard Specification 710-06 Rock Slope Net and Wire Mesh Assemblies	01/27/2010
EI	10-005	New Standard Specification 731-03 Rock Bolt Assembly	01/27/2010
EI	10-004	New Standard Specification 710-27 Rock Slope Wire Ropes	01/27/2010
EI	09-029	Revision to 105-03 Methods and Equipment, Revision to 107-01 Laws, Rules, Regulations and Permits	01/12/2010
EI	09-028	Special Specification for Subsurface Settlement Gauge	12/21/2009
EI	09-027	Section 733- Earthwork Materials	12/21/2009
EI	09-026	Section 621 - Cleaning Culverts, Drainage Structures, and Existing Roadside Sections	12/21/2009
EI	09-024	Section 203 - Excavation and Embankment	12/21/2009
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EB	09-035	ARRA Reporting - Actual Work Completion Date	12/19/2009
EI	09-003	Standard Specification 711-08 - Admixtures - Non- Chloride Accelerators	12/17/2009
EI	09-031	Revision to Standard Specifications: Section 625 Survey Operations	12/15/2009
EI	09-032	Section 709 - Stainless Steel Reinforcement	12/10/2009
EI	09-030	Revision to Standard Specifications: 105-10 Survey and Stakeout	12/03/2009
EI	09-022	Revised Standard Specification - 557-3.12 Provisions for Concreting in Cold Weather	11/18/2009
EB	09-031	NYSDOT CADD Software Standards	11/11/2009
EI	09-021	Revisions to Standard Specifications - Section 100, 107-06 Insurance and 107-09 Damage	10/26/2009
EB	09-026	Highway Design Manual Revision No. 56 - Chapter 8 - Highway Drainage	10/22/2009
EB	09-003	Payment for Box Beam Guide Rail Type 0 End Terminal	10/14/2009
EI	09-005	Elimination of the Pay Factor for Box Beam Guide Rail End Terminal Posts Installed in Rock and References to Rustic Rail	10/14/2009
EB	09-025	U.S. Customary Standard Sheet Revisions	10/05/2009
EB	09-008	Revisions to Materials Method NY 6 - Approval and Quality Assurance of Class 1 and Class 2 Structural Steel Paints	10/01/2009
EB	09-024	Whistleblower Protections Under the Recovery Act (ARRA)	09/25/2009
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EI	09-020	Special Specifications for Bioretention and Dry Swale Soil and Soil Phosphorus Testing	08/14/2009
ED	09-002	Stop Order- American Recovery and Reinvestment Act (ARRA) Signs	07/17/2009

ED	09-001	New York State Ban on the Planting of Ash (Fraxinus sp.) Trees	07/07/2009
EI	09-019	New York State Rider for Recovery Act Funded Contracts	06/26/2009
EB	09-002	Materials Procedure MP 08-02: Procedure for Obtaining Approved List Acceptance - 729-15 Arrow Panels and 729-16 Portable Variable-Message Signs (PVMS)	06/03/2009
EI	09-014	New Standard Specification Section Numbers	05/14/2009
EB	09-017	Procedures for Locally Administered Federal Aid Projects (Vol. 1 - Guidelines) (PLAFAP) Revised Chapter 12 Construction Contract Requirements Procedures for Locally Administered Federal Aid Projects (Vol. 2-Appendices) (PLAFAP) Revised Chapter 12 Appendices Construction Contract Requirements	04/29/2009
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EI	09-010	Traffic Signals - Light Emitting Diode (LED) Modules	04/22/2009
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EB	09-016	U.S. Customary Unit Projects with Plans	04/03/2009
EB	09-014	MURK Part 1A Contract Administration Manual (CAM) Revision No. 2	04/02/2009
EI	09-009	Green Construction Practices	03/27/2009
EI	09-002	Special Specifications For Invasive Plant Species Control	03/25/2009
EI	09-001	Design Guidance for Removal of Invasive Plant Species	03/25/2009
EB	09-012	Right of Way Mapping Procedure Manual	03/23/2009
EB	09-011	Land Surveying Standards and Procedures Manual	03/11/2009
EB	09-009	Construction Inspection Manual (CIM), MURK Part 1B, Revision 1	03/04/2009
EB	09-010	Fuel, Asphalt & Steel Price Adjustments (March 2009)	02/25/2009
EB	09-007	Materials Method 9.1 - Plant Inspection of Portland Cement Concrete	02/23/2009
EB	09-006	Estimator Version 2.6a Software Upgrade	02/12/2009
EB	09-005	Quality Control and Quality Assurance Procedures for Hot Mix Asphalt (HMA) Production	02/11/2009
EI	09-006	Revision To Hot Mix Asphalt Section 401 - Plant Production	02/11/2009
EB	09-004	Highway Design Manual Revision No. 55 - Chapter2, Chapter7, and Comprehensive Pavement Design Manual Revision No. 3 - Chapter 3	02/06/2009

EB	09-001	Fuel, Asphalt & Steel Price Adjustments (February 2009)	01/22/2009
EI	09-004	Standard Specifications 730-12 and 730-13	01/20/2009
EB	08-052	Fuel, Asphalt & Steel Price Adjustments (January 2009)	12/23/2008
EB	08-049	Revision of Standard Sheets for Measurement of Frames, Grates & Covers	12/19/2008
EI	08-040	Design Guidance for Sign Panel Dimensions	12/19/2008
EB	08-050	Scaling of Rock Slopes and Removal of Spoil	12/19/2008
EI	08-048	Revisions to Standard Specifications 655 - Measurement of Frames, Grates, and Covers	12/19/2008
EI	08-045	Design Guidance for Hot Mix Asphalt (HMA) Pavement Ride Quality Projects	12/06/2008
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EB	08-048	Design and Construction Guidelines for a Soil Nail Wall System-Geotechnical Engineering Manual (GEM-21)	12/06/2008
EI	08-044	Special Specifications for Hot Mix Asphalt (HMA) Pavement Ride Quality Levels 1 and 2	12/06/2008
EB	08-045	Pole-Mounted Sign Support Standard Sheets	11/25/2008
EB	08-051	Fuel, Asphalt & Steel Price Adjustments (December 2008)	11/25/2008
EI	08-043	Revision to Standard Specifications - 645 Pole-Mounted Sign Support Systems	11/25/2008
EB	08-047	Amendments For Engineering Instructions (EI) 08-027 and 08-032	11/24/2008
EB	08-044	MURK Part 1A (Contract Administration Manual) Sections 91 & 93	11/17/2008
EB	08-042	Project Development Manual - Revisions to Chapters 2 and 4 to Improve Project SEQRA Determinations and Documentation	11/12/2008
EB	08-043	Highway Design Manual Revision No. 54 - Chapter 20 and Chapter 22	11/10/2008
EI	08-041	Special Specification for Full Depth Reclamation of Asphalt Pavement	11/05/2008
EB	08-046	Fuel, Asphalt & Steel Price Adjustments (November 2008)	10/23/2008
EB	08-036	U.S. Customary Standard Sheets	10/16/2008
EI	08-031	Revised Special Specification for Launched Soil Nail Shallow Slough Treatment	10/01/2008
EB	08-041	Fuel, Asphalt & Steel Price Adjustments (October 2008)	09/26/2008
EI	08-034	Section 204- Controlled Low Strength Material (CLSM)	09/24/2008
EB	08-039	Highway Design Manual 2008 Edition	09/18/2008

EI	08-036	Truck Mounted and Trailer Mounted Impact Attenuators	09/12/2008
EB	08-038	Green LITES Project Design Certification Program	09/10/2008
EI	08-030	Work Zone Speed Limit Reductions	09/09/2008
EI	08-027	Specification Revisions: Section 501 Portland Cement Concrete General and 711-11 Microsilica, New Specification: Section 711-14 High Reactivity Pozzolan	09/08/2008
EB	08-032	Procedures for Blasting - Geotechnical Engineering Manual (GEM-22)	09/08/2008
EB	08-035	Fuel, Asphalt & Steel Price Adjustments (September 2008) - Correction	09/05/2008
EI	08-033	Transition to the National Manual on Uniform Traffic Control Devices	09/03/2008
EB	08-033	2008 Standard Specifications for Construction and Materials (US Customary Units)	08/26/2008
EB	08-034	Fuel, Asphalt & Steel Price Adjustments (September 2008)	08/25/2008
EI	08-029	Revision to Standard Specifications - 109-07 Prompt Payments by the Contractor	08/07/2008
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EI	08-025	Standard Specifications Section 629 - Petroleum Storage Tank Closure	07/22/2008
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EI	08-024	Worker Safety Training	07/01/2008
EB	08-027	Fuel, Asphalt & Steel Price Adjustments (July 2008)	06/25/2008
EB	08-025	Elimination of Paper Form AAP-21 for Civil Rights Reporting	06/17/2008
EB	08-026	Federal-Aid Highway Construction Contractors Annual EEO Report	06/17/2008
EB	08-024	Procedure for the Control and Quality Assurance of Granular Materials-Geotechnical Control Procedure (GCP-17)	06/17/2008
EI	08-021	Special Specification for Crib Walls and Bin Walls	06/05/2008
EB	08-020	Revisions to 632 Standard Sheets	06/05/2008
EI	08-022	Standard Specifications- Section 696 Contractor Charges	06/03/2008
EB	08-023	Fuel, Asphalt & Steel Price Adjustments (June 2008)	05/23/2008
EB	08-022	Revised Construction Inspection and Contract Administration Forms	05/23/2008

EI	08-018	Lightweight, High-Performance Concrete for Superstructure Slabs, Sidewalks and Thin Structural Applications	05/23/2008
EB	08-021	Enviromental Procedures Manual Chapter 1.3 "Asbestos Management"	05/21/2008
EB	08-019	Standard Sheets M680-2R2 and M680-3R3 for Traffic Signal Head Reinforcement Plate Requirement	05/19/2008
EB	08-017	List of Current Materials Bureau Publications	05/19/2008
EB	08-006	Standard Sheets-M619-10,M619-11, M619-12, M619-13, M619-20, M619-21, M619-22, M619-23, M619-24, M619-30, M619-31, M619-32, M619-33, M619-34, M619-40, M619-41, M619-50, M619-51, M619-60, M619-61, M619-62,M619-63,M619-64,M619-65,M619-66,M619-70, and M619-71	05/16/2008
EB	08-018	Standard Sheet M402-1R1 Hot Mix Asphalt Overlay Splice (Pavement Termination Detail)	05/16/2008
EB	08-016	Fuel, Asphalt & Steel Price Adjustments (May 2008)	04/28/2008
EB	08-001	SAFETE-LU Design Related Approval Matrix	04/23/2008
EB	08-015	NYS Steel Construction Manual, 3rd Edition	04/21/2008
EB	08-002	US Customary Bridge Detail (BD) Sheets and Dual Unit NYSDOT Overhead Sign Structure Design Manual, 2008	04/21/2008
EB	08-014	Performance Graded (PG) Binder Requirements for On-Going Contracts	04/16/2008
EI	08-017	Usage of Portable Phones and Personal Entertainment Devices	04/15/2008
EI	08-015	Elimination of Weathering Steel Bridge Rail	04/02/2008
EB	08-013	Revised Bridge Detail Sheets for Excavation and Embankment Details and Revisions to the Bridge Manual	04/02/2008
EI	08-014	Revised Special Specification for Expanded Polystyrene Fill	03/31/2008
EB	08-011	Expanded Polystyrene Sampling and Specimen Preparation Procedure (GTP-7)	03/31/2008
EB	08-012	Guidelines for Design and Construction of Expanded Polystyrene Fill as a Lightweight Soil Replacement (GEM-24)	03/31/2008
EI	08-013	Revisions to Standard Specifications - Planting	03/28/2008
EB	08-010	Fuel, Asphalt & Steel Price Adjustments (April 2008)	03/25/2008
EI	08-012	Anchoring Materials- Chemical Curing, NTSB Safety Recommendations	03/18/2008
EI	08-011	Revised Special Specifications for 6.3-mm Polymer-Modified Hot Mix Asphalt (HMA)	03/14/2008
EI	08-009	Typical Bird/Bat Waste Information	03/13/2008
EI	08-010	Revised Standard Specifications Section 637- Engineer's Field Office, Laboratory and Equipment	03/06/2008

EB	08-009	Fuel, Asphalt & Steel Price Adjustments (March 2008)	02/25/2008
EB	08-008	Replacement Pages for Comprehensive Pavement Design Manual (CPDM) Chapter 6 - Pages 6-5 Through 6-12 and Appendix 6A	02/15/2008
EI	08-006	Standard Specifications Section 207- Geosynthetics, Standard Specifications Section 209 - Soil Erosion and Sediment Control	02/14/2008
EI	08-007	Special Specifications Involving Geosynthetics	02/14/2008
EI	08-008	23 CFR 630 - Subpart J Work Zone Safety and Mobility Section 630.1010 Significant Projects	02/11/2008
EI	08-004	Revisions to Standard Specifications Section 100- Civil Rights Reporting	02/08/2008
EB	08-005	Project Development Manual- Appendix 7 Format & Content of Scoping and Design Approval Documents	02/05/2008
EB	08-004	Addendum #1 to the NYSDOT Bridge Manual 4th Edition and First US Customary Edition	02/01/2008
EB	08-007	Highway Design Manual Revision No. 53 - Chapter 11, Appendix 11B Decorative Community Gateway Signing and/or Landscaping on New York State Highway Right of Way	02/01/2008
EB	08-003	Fuel, Asphalt & Steel Price Adjustments (February 2008)	01/25/2008
EI	08-001	Policy on Professional Seals and Signatures	01/11/2008
EB	07-028	Standard Sheets - M619-4R2 and M619-5R2; M685-1R1, M685-2R3	01/09/2008
EB	07-041	Fuel, Asphalt & Steel Price Adjustments (January 2008)	01/02/2008
EB	07-040	Standard Sheets - M645-25R1, M645-50R1, M645-52R1, M645-55R1, M645-56R1, M645-70R1, M645-76R1 and M645-80R1	12/28/2007
EB	07-039	Geotechnical Engineering Bureau Manuals	12/26/2007
EB	07-038	Air Quality Monitoring (AQM) During Work Within Class A Containment	12/14/2007
EB	07-037	Fuel, Asphalt & Steel Price Adjustments (December 2007)	11/27/2007
EB	07-035	Procedures for Locally Administered Federal Aid Projects (Vol. 1- Guidelines) (PLAFAP) Revised Chapter 15 Administer Construction Contracts	11/27/2007
EB	07-036	Guidance for Addressing HMA Pavements Exhibiting Atypical Flushing	11/26/2007
EI	07-034	Standard Specifications - Section 205 Contaminated Soil	11/14/2007
EI	07-035	Design Guidance - Contaminated Soil	11/14/2007
EB	07-034	Fuel, Asphalt & Steel Price Adjustments (November 2007)	10/26/2007
EI	07-033	Stormwater Outfall Mapping Inventory Guidance for Regional Data Exchange	10/26/2007
EB	07-033	Index Prices for Use With Quality Adjustment Items	10/22/2007

EB	07-032	Fuel, Asphalt & Steel Price Adjustments (October 2007)	09/27/2007
EI	07-032	Maintenance Cleaning and Washing of Bridges- US Customary	09/12/2007
EB	07-030	Metric Units to U.S. Customary Units Conversion Information	09/04/2007
EB	07-031	Procedures for Locally Administered Federal Aid Projects (Vol. 1-Guidelines) (PLAFAP) Revised Chapter 11-Right of Way, Procedures for Locally Administered Federal Aid Projects (Vol. 2-Appendices) (PLAFAP) Revised Appendices 11- Right of Way	08/31/2007
EI	07-031	Department Approved Civil Rights Reporting Software	08/28/2007
EI	07-030	NYSDOT LRFD Bridge Design Specifications- US Customary	08/24/2007
EB	07-029	Fuel, Asphalt & Steel Price Adjustments (September 2007)	08/23/2007
EI	07-025	Special Specification for Root Product Method (RPM) Plant Material	08/09/2007
EB	07-027	Revisions to Materials Method 28 and Materials Method 29	08/06/2007
EB	07-026	Fuel, Asphalt & Steel Price Adjustments (August 2007)	08/02/2007
EB	07-024	Cable Median Barrier (New Standard Sheets M606-52, M606-53, & M606-54)	07/10/2007
EI	07-027	Construction Contract Record Keeping Review Standards	07/09/2007
EB	07-023	Estimator Version 2.4a Software Upgrade	06/28/2007
EB	07-025	Fuel, Asphalt & Steel Price Adjustments (July 2007)	06/22/2007
EB	07-022	Standard Sheets - M619-4R1 and M619-5R1; M680-1R1, M680-2R1, M680-3R2, and M680-8R3; M685-1R1, M685-2R2, M685-3R2, and M685-4R2	06/20/2007
EI	07-022	Revisions to Standard Specification 107-05A High-Visibility Apparel	06/04/2007
EI	07-020	Revised Standard Specifications for Sections 407-Tack Coat, 618-Bituminous Material, and 702- Bituminous Materials	06/01/2007
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EI	07-019	Standard Specification Changes for the Adoption of the National Manual on Uniform Traffic Control Devices (FHWA) and the New York State Supplement	05/25/2007
EB	07-021	Fuel, Asphalt & Steel Price Adjustments (June 2007)	05/23/2007
EB	07-020	Revised Bridge Detail Sheets for Box Culverts/Three-Sided Structures	05/16/2007
EB	07-019	Asphalt and Fuel Price Adjustment Conversion Factors	05/14/2007
EI	07-018	Elimination of Contract Plans Without Reinforcing Bar Lists	05/11/2007
EI	07-016	Revised Section 650 - Trenchless Installation of Casing	05/04/2007
EI	07-015	Repair of Aluminum Overhead Sign Structures Using Fiber Reinforced Polymers - Design/Inspection Guidance	04/26/2007

EB	07-018	Fuel, Asphalt & Steel Price Adjustments (May 2007)	04/20/2007
EB	07-017	Construction Inspection Manual (CIM), MURK Part 1B, Section 691	04/11/2007
EI	07-014	NYSDOT LRFD Bridge Design Specifications - 2007	04/06/2007
EB	07-012	Department-Approved List of Traffic Analysis Software Programs	04/05/2007
EB	07-016	Reissuance of US Army Corps of Engineers Nationwide Permits	04/05/2007
EI	07-012	Statewide Emergency Bridge Contract: Guidance	03/23/2007
EB	07-015	Fuel, Asphalt & Steel Price Adjustments (April 2007)	03/22/2007
EB	07-013	Prestressed Concrete Beam Replacement BD Sheets	03/19/2007
EB	07-014	Adoption of the National Manual on Uniform Traffic Control Devices and the New York State Supplement	03/15/2007
EI	07-011	Revision to Standard Specifications- 209 Erosion and Sediment Control, 610 Turf and Wildflower Establishment and 713 Landscape Development Materials	03/13/2007
EI	07-010	Special Specification 637.4000nn20 Webcam System	03/12/2007
EI	07-009	Policy for the Operation of Webcam Systems on Construction Contracts	03/12/2007
EB	07-009	Highway Design Manual (HDM) Revision No. 52 Chapter 9- Soils, Walls, and Foundation, Chapter 20.00 - Cantilever and Gravity Walls	03/02/2007
EI	07-008	Revision to Standard Specifications Section 570 Paint Removal Operations	03/02/2007
EB	07-009	Highway Design Manual (HDM) Revision No. 52 Chapter 9 - Soils, Walls, and Foundations, Chapter 20.00 - Cantilever and Gravity Walls	03/02/2007
EB	07-011	NYSDOT Overhead Sign Structure Design Manual and NYSDOT Standard Design Specifications for Overhead Sign Structures, 2007	03/01/2007
EB	07-008	Construction Program Employee Safety Manual	02/28/2007
EB	07-010	Fuel, Asphalt & Steel Price Adjustments (March 2007)	02/27/2007
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EI	07-004	Revisions to Standard Specifications Section 730 Signs and Delineators	02/21/2007
EI	07-005	Revisions to Standard Specifications - 704-05 Precast Concrete Barrier	02/21/2007
EI	07-006	Standard Specifications - Section 619 Work Zone Traffic Control	02/16/2007
EB	07-005	Approach Slabs and Mechanically Stabilized Earth Systems (MSES) Moment Slabs - Replacement/New BD Sheets	02/16/2007
EB	07-007	Priority Traffic Signal Poles (Additional Standardized Base Plates)	02/13/2007
EB	07-006	Changes to the Approved List of Materials and Equipment	02/01/2007
EB	07-004	Fuel, Asphalt & Steel Price Adjustments (February 2007)	01/26/2007

EB	07-002	Revision to Standard Sheets M606-20, M606-22, M606-26, M606-27, M606-28, M606-30	01/25/2007
EB	07-003	Revised Construction Inspection and Contract Administration Forms	01/23/2007
EB	07-001	FWHA/NYSDOT SAFETEA-LU AGREEMENT	01/04/2007
EB	06-057	2006 Standard Specifications for Construction and Materials (Metric)	12/26/2006
EB	06-058	Fuel, Asphalt & Steel Price Adjustments (January 2007)	12/22/2006
EI	06-035	Revisions to Standard Specifications 606, 704-03, 704-04 and 706-17	12/12/2006
EB	06-056	Metric Units to U.S. Customary Units Conversion Announcement	12/12/2006
EB	06-055	Revisions to Standard Sheet M604-5R1 Drainage Structure Details, Rectangular Structures with Top Slabs	12/12/2006
EB	06-044	Right of Way Mapping Procedure Manual	12/08/2006
EB	06-053	Fuel, Asphalt & Steel Price Adjustments (December 2006)	11/30/2006
EB	06-052	Use of Median Barriers In Wide Medians - Extension of ED 05-001	11/30/2006
EB	06-054	Highway Design Manual 2006 Edition	11/30/2006
EB	06-051	Standard Sheets, M608-10 Sidewalk Curb Ramps Dimensions (Dimensions, Details and Geometry)- Sheet 1 of 4, M608-11 Sidewalk Curb Ramps Configurations- Sheet 2 of 4, M608-12 Sidewalk Curb Ramps Configurations- sheet 3 of 4, M608-13 Detectable Warning Detail	11/29/2006
EB	06-050	USDOT Adoption Of New Accessibility Standards for Transportation Facilities	11/29/2006
EB	06-049	Topsoil Request Form	11/03/2006
EB	06-048	Fuel, Asphalt & Steel Price Adjustments (November 2006)	10/25/2006
EB	06-047	Revised Bridge Detail Sheets For Superstructure Slabs	10/23/2006
EB	06-046	Index Prices For Use With Quality Adjustment Items	10/19/2006
EB	06-043	Cable Guide Railing Standard Sheets M606-1R2 and M606-2R2	10/18/2006
EI	06-034	Special Specification For Micropiles (Design Provided)	10/10/2006
EI	06-033	Special Specification For Micropiles (Contractor Designed)	10/10/2006
EI	06-031	Special Specification For Static Pile Load Test	10/10/2006
EB	06-045	Static Pile Load Test Manual (GCP-18 Revision #1)	10/10/2006
EI	06-032	Special Specification For Permanent Casing For Micropiles	10/10/2006
EB	06-042	Fuel, Asphalt & Steel Price Adjustments (October 2006)	10/02/2006
EB	06-041	Highway Design Manual Revision No. 51 - Revisions to Chapter 8 Highway Drainage	09/22/2006

EB	06-038	Project Development Manual - Appendix 14 Project Data Management	09/15/2006
EB	06-039	Rock Core Evaluation Manual (GEM-23)	08/29/2006
EI	06-016	Revisions To Standard Specifications Section 619 - Construction Signs	08/29/2006
EI	06-023	Design Guidance For Allowable Modifications Of Section 713-01 Topsoil, And Placing Topsoil Pay Items	08/28/2006
EI	06-024	Revisions To Standard Specifications - Section 613 Placing Topsoil, 713-01 Topsoil and 713-15 Organic Material	08/28/2006
EI	06-025	Revision To Standard Specifications 107-05B. Project Safety And Health Plan - Workplace Violence	08/28/2006
EI	06-026	Revised Standard Specifications Section 697 Field Change Payment	08/28/2006
EB	06-040	Fuel, Asphalt & Steel Price Adjustments (September 2006)	08/28/2006
EB	06-036	Highway Design Manual Revision No. 50 - Revisions to Chapter 5 Basic Design	08/23/2006
EB	06-037	Dedicated State Police Services - Documentation and Processing	08/22/2006
EI	06-022	Revised Standard Specifications Section 637 - Engineer's Field Office, Laboratory and Equipment	08/22/2006
EB	06-035	Electronic New York State Prevailing Wage Rate Schedules	08/17/2006
EI	06-018	Special Specification 691.03----Training Requirements	08/14/2006
EB	06-034	Fuel, Asphalt & Steel Price Adjustments (August 2006)	07/27/2006
EI	06-017	Revised Special Specifications for 6.3-mm Polymer-Modified Hot Mix Asphalt (HMA) and Deletion of Miscellaneous Patching HMA	07/19/2006
EB	06-033	Bridge Safety Assurance Vulnerability Rating Revisions	07/19/2006
EB	06-032	Revised Bridge Detail Sheet For Integral Abutments - NEBT & AASHTO I-Beams	07/02/2006
EB	06-031	Fuel, Asphalt & Steel Price Adjustments (July 2006)	06/23/2006
EB	06-030	Construction Seat Management Initiative	06/22/2006
EB	06-029	Steel Girder Detail Replacement/New BD Sheets	06/14/2006
EI	06-014	Culvert-End Safety Grates (Revised Section 603 Standard Items)	06/06/2006
EB	06-027	Interim Design Guidance for Mast Arm Traffic Signal Poles	06/06/2006
EB	06-028	Correction to EB 06-026	06/06/2006
EB	06-025	Culvert-End Safety Grates (New Standard Sheet M603-6)	06/06/2006
EB	06-026	Highway Design Manual Revision No. 48 - Replacement Pages for EB 06-004	06/02/2006
EB	06-024	Fuel, Asphalt, & Steel Price Adjustments (June 2006)	05/30/2006

EI	06-013	Revisions to Standard Specifications - Section 100 - Phase 5F - Lobbying	05/26/2006
EB	06-023	MURK Part 1A - Contract Administration Manual (CAM) Revision No. 1	05/22/2006
EI	06-008	Special Specification 688.10XX--18 Preformed, Wet-Reflective Tape (Grooved Pavement Method)	05/12/2006
EB	06-020	Revision to Materials Method (MM) 5.16, Superpave Hot Mix Asphalt Mixture Design and Mixture Verification Procedures	05/05/2006
EI	06-012	Revision to Hot Mix Asphalt (HMA) Mixture Design Requirements in Standard Specifications Section 401	05/05/2006
EB	06-019	NYSDOT Structures Design and Construction Division Bridge Manual, 4th Edition	05/04/2006
EB	06-021	Materials Details for Section 730-24, Type A Sign Supports	05/02/2006
EI	06-011	Interim Implementation of Work Zone Safety Act of 2005	05/01/2006
EB	06-022	Estimator Version 2.3a Software Upgrade	04/28/2006
EB	06-016	Design Guidance for the use of Crack Sealants	04/13/2006
EB	06-015	Highway Design Manual Revision No. 49 - Revisions to Chapter 17 Bicycle Facility Design and Chapter 18 Pedestrian Facility Design	03/30/2006
EI	06-006	HBRRP Funding of Preventive Bridge Maintenance Activities	03/26/2006
EB	06-014	Fuel, Asphalt, & Steel Price Adjustments (April 2006)	03/23/2006
EB	06-013	Replacement Page for EI 06-004	03/17/2006
EI	06-003	Diaphragms for Prestressed Concrete Beams	03/07/2006
EB	06-012	Design and Construction Guidance for Amended New York State Asbestos Regulations (12 NYCRR Part 56)	03/02/2006
EB	06-011	Operating Cost Adjustments for Force Accounts	02/24/2006
EB	06-007	Correction to EI 05-030 - Special Specification 619.21XX--14 Portable, Variable-Message Signs (PVMSs)	02/07/2006
EB	06-009	New product Evaluation Committee (NPEC) Favorable Determination for FlexKrete	02/06/2006
EB	06-001	Changes to the Approved List of Materials and Equipment	02/03/2006
EB	06-008	NYSDOT CADD Software Standards	02/02/2006
EB	06-006	Highway Design Manual Revision No. 48 - Replacement Pages for EB 06-004	01/30/2006
EB	06-003	Department-Approved List of Traffic Analysis Software Programs	01/23/2006
EB	06-004	Highway Design Manual Revision No. 48 - Chapter 16 Maintenance and Protection of Traffic in Highway Work Zones	01/20/2006
EI	06-002	Lead-Free Pavement Marking Materials	01/18/2006

00032

EI	05-046	Special Specification for Item 595.50----18 Sheet-Applied Waterproofing Membrane	01/06/2006
EB	06-002	Materials Procedure 05-04: Precast Concrete Fabrication Drawings	01/05/2006

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OFF SITE DETOUR

1. The proposed off-site detour must be removed prior to the start of the Memorial Day Weekend Holiday (May 25, 2012). The Phase I section of the roadway must be opened to traffic by this date. Failure to complete this work will result in Liquidate Damages accessed per Section 00100.03 of the proposal and Table 108-1 of the Standard Specifications.

2. Prior to the opening of Phase I to traffic, the new Highway must be completed to the extent that public traffic will be safely accommodated. This includes drainage improvements, pavement up to the binder course, pavement markings, and traffic signs.

3. The Contractor agrees in undertaking this project that all consideration have been taken and allowances made for all ordinary delays and hindrances to such work, such as weather, securing material and labor, and conditions or restrictions at the project site.

4. There is mo direct payment for the work described by this special note. All costs shall be included in the price bid of the various items in the contracts.

WORK ZONE TRAFFIC CONTROL

1. During the lane closure restrictions as outlined in the general plans, no lane closures will be permitted along the limits of construction. During these time frames restrictions, all construction areas along the project limits shall be completed to safely accommodate vehicular, bicycle, and pedestrian traffic. This work shall include providing positive roadway drainage, pavement courses up to binder, pavement markings, and traffic signs. In no case shall the travel lanes or shoulders be left unpaved during these time frames.

2. The Contractor agrees in undertaking this project that all consideration have been taken and allowances made for all ordinary delays and hindrances to such work, such as weather, securing material and labor, and conditions or restrictions at the project site.

3. Failure to comply with the provision of the Work Zone Traffic Control Provisions will result in Liquidated Damages accessed per Section 00100.03 of the Proposal and Table 108-1 of the Standard Specifications.

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SECTION 00160
SPECIAL NOTE

HISTOPLASMOSIS

This note contains policy and procedures for working in areas where pigeons have nested, usually for long periods. It is based on New York State Department of Transportation Safety Bulletin SB-94-4. Such conditions are often found in bridge structures and cold storage facilities. This nesting results in a substantial build-up of pigeon droppings, a condition which can be harmful to humans if the material is disturbed and made airborne.

Histoplasmosis is a fungal infection resulting from exposure to pigeon droppings. Infectious material enters the body usually by inhalation into the lungs, but in some cases by ingestion through the mouth into the gastrointestinal tract. Pigeons do not carry the organism that causes histoplasmosis. Histoplasmosis is caused by soil organism that requires the moist, nutrient rich environment that large masses of droppings offer. Areas with small amounts of dried droppings pose minimal hazard.

This note is intended to alert the contractor of this potential health hazard and establish procedures o minimize exposure.

PROCEDURES

Prior to work in any area where pigeons nest, a thorough inspection should be made to determine if, and to what extent there is a build-up of material. Inspection itself requires minimum precautions such as the use of personal protective equipment, which may include gloves, rubber boots, rain suit components, goggles and a dust/nuisance respirator. Questions regarding proper equipment for this activity should be directed to the Regional Safety Representative or Employee Safety & Health Section.

If substantial material is found in the immediate work area, cleaning must be performed. Employees engaged in cleaning activity shall wear all of the personal protective equipment specified above. A high powered water hose is an effective means to remove material. If the material is to be scraped away, it must be kept wet during the entire process. Application of a cleaning agent (bleach, for example), before removal may help dissolve the material, and may be applied as a disinfectant upon the affected surfaces after the droppings have been removed. Compressed air shall not be used to remove pigeon droppings because it increases the potential for inhalation and ingestion of airborne particles and the area of potential exposure.

When cleaning has been successfully completed, the personal protective equipment specified above is no longer required. All other personal protective equipment appropriate for the task and/or location shall be used, such as fall protection, hard hat, etc.

Employees engaged in cleaning, or any other activity which involves exposure to pigeon droppings, should observe a high degree of personal hygiene, even if the exposure is casual. Special care must be taken to wash hands thoroughly before eating or smoking.

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SECTION 00160

SPECIAL NOTE

CASING MATERIALS

All steel casing materials incorporated in this project shall be new materials and shall meet the Buy America Provisions of the Standard Specifications.

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SPECIAL NOTE

For Work requiring Coordination with Adirondack Railway Preservation Society.

- The contractor shall note that this project requires close coordination with the **Adirondack Railway Preservation Society**. It is anticipated that the **Adirondack Railway Preservation Society** will provide their own personnel to perform flagging and inspection services while certain construction operations take place adjacent to, over or under **Adirondack Railway Preservation Society** Railroad's tracks, facilities, right-of-way and property. The flag or inspection person must be present, as determined prior to the start of construction, to insure the safe operation of trains, prevent the delay of trains and insure the safety of all property and personnel on the project site. However, the contractor is advised that the **Adirondack Railway Preservation Society** may not be able to provide flag persons on a daily basis due to the railroad's operational necessities.

- The contractor shall coordinate and schedule his construction activities with the **Adirondack Railway Preservation Society** project engineer no later than two weeks prior to the start of the work, in consultation with the Project Sponsor's Engineer-in-Charge, so that a workable schedule can be formulated and agreed upon.

Contact: Adirondack Railway Preservation Society
Att: David Vanpelt, Track Supervisor
PO Box 84
Forge Street
Thendara, NY 13472
(P) 315-369-8211
(F) 315-369-2479

- The contractor shall conduct both an existing and post construction profile survey of both rails of the track which shall be in conformance with the Land Surveying Standard and Procedures Manual, latest edition Chapter 14. This survey should extend for 10 meters on either side of the highway horizontal control line. These profiles shall be plotted at 1:250 scale (Full Size) and three (3) copies shall be provided to the Engineer. Payment will be made under Contract Item 625.01M – Survey Operations. Any indication of damages to the track caused by the Contractor operations shall be repaired at the Contractors expense and the track restored to its pre-existing condition.

- Two test pits will be required in each side of the Railroad crossing to locate the signal and gate wires prior to commencing any work in this area. These test pits shall be performed under the inspection of a railroad representative. Cost of these test pits shall be included under Item 206.05M – Test Pit Excavation.

00090

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SPECIAL NOTE

RAILROAD DATA

1. NAME OF RAILROAD(S)

   a) OWNER: NEW YORK STATE DEPARTMENT OF TRANSPORTATION

   b) PERMITEE: ADIRONDACK RAILWAY PRESERVATION SOCIETY

2. LINE NAME: ADIRONDACK RAILWAY PRESERVATION SOCIETY

3. RR MILEPOST NO.: LP0 TO LP1

4. NUMBER OF TRACKS: ONE (1)

5. NUMBER AND FREQUENCY OF TRAINS:

   a) FREIGHT: NONE

   b) PASSENGER: SEASONAL – MAXIMUM SIX (6) TRAINS DAILY MAY THROUGH OCTOBER

6. MAXIMUM AUTHORIZED TRAIN SPEED: 30 MPH

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SPECIAL NOTES ON RAILROADS
PROTECTIVE LIABILITY INSURANCE INCLUDING AMENDED LIMITS

1. Each policy of railroad protective liability insurance shall be issued with limits of:

   BODILY INJURY LIABILITY PROPERTY DAMAGE LIABILITY

   Single limit of $ 2,000,000* combined Bodily Injury Liability and/or Property Damage Liability for each occurrence with a $ 6,000,000 Aggregate limit applying separately to each annual period.

2. Before any work is started on the railroad company's right-of-way, the contractor shall furnish:

   Owner: NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT)
   Permitee: ADIRONDACK RAILWAY PRESERVATION SOCIETY (ARPS) [MAY 1 TO NOV 30]
   Permitee: NEW YORK STATE SNOWMOBILE ASSOCIATION (NYSSA) [DEC 1 TO APR 30]

   with a policy of railroad protective liability insurance taken out singularly in the name of the railroad company identified as an owner/operator above. Each policy shall also name the railroad company(s) listed as having trackage rights. Said policy(s) shall be subject to the approval of each named railroad company identified as owner/operator, and the contractor shall also furnish each named railroad company identified as owner/operator with a copy of the Certificate of Insurance for Construction and Reconstruction of Highway, Bridge and Related Projects.

   This Railroad Protective Liability Insurance Policy issued to the Company shall be in accordance with the U.S. Department of Transportation; Federal Highway Administration, Federal-Aid Policy Guide, 23 CFR Part 646 Subpart A dated July 6, 2005.

   The Contractor shall procure and maintain at his/her own expense, and without expense to the Sponsor or Railroad, the above captioned Railroad Protective Liability Insurance. The policies shall not be changed or canceled until thirty (30) days written notice has been given to the Sponsor's Representative and the above listed Railroad(s).

   Because of railroad involvement, the Contractor's attention is directed to Section 105-09, WORK AFFECTING RAILROADS, in the current "Standard Specifications, Construction and Material Publication of the New York State Department of Transportation".

   Information and/or correspondence regarding insurance shall be directed to:

NYSDOT	**ARPS**	**NYSSA**
UTICA STATE OFFICE BUILDING	UNION STATION	PO BOX 612
207 GENESEE STREET	321 MAIN STREET	LONG LAKE, NY 12847
UTICA, NY 13501	UTICA, NY 13501	

* Amounts may vary according to each Railroad or project circumstances. Values noted are maximum coverages allowed to be eligible for federal reimbursement.

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RAILROAD CERTIFICATE OF INSURANCE

CERTIFICATE OF INSURANCE

Municipality:
Address:

NAME AND ADDRESS OF INSURED CONTRACTOR:	ADDITIONAL INSURED:
LOCATION AND DESCRIPTION OF WORK:	CONTRACT #

The subscribing insurance company, authorized to do business in the State of New York, certifies that insurance of the kinds and types and for limits of liability herein stated, covering the work herein designated, has been procured by and furnished on behalf of the insured contractor and is in full force and effect for the period listed below.

KIND OF INSURANCE	POLICY NUMBER	EFFECTIVE DATE	EXPIRATION DATE	LIMITS OF LIABILITY (In thousands)	
				Each Occurrence	Aggregate
(a) Contractor's Liability					
(b) Contractor's Protective Liability					
(c) Completed Operations Liability					
(d) Protective liability furnished by general contractor in the name of the Municipality and their employees, and any construction inspection engineer or inspector and such others as specified in Section 107-06 of the Standard Specifications.					
(e) Commercial general liability (Premises, Existence, Hazard) in the name of theMunicipality and their employees, and any construction inspection engineer or inspector and such others as specified in Section 107-06 of the Standard Specifications.					
(f) Railroad Protective Liability					

RAILROAD CERTIFICATE OF INSURANCE CONT.

(g) Professional Liability					
(h) Worker's Compensation					Limits as required by law.
(i) Disability Benefits					Limits as required by law.
(j) Excess Umbrella					
(k) Automobile Liability					Limits as required by law.
(l) Other					

This is to certify that _____ (hereinafter called Company) of _____
(Name of Company) (Home, Office Address of Company)
has issued to _____ of _____ a policy or policies of
(Name of Contractor) (Address of Insured Contractor)

insurance effective from the dates listed on the front of this certificate at 12:01 standard time at the address of the insured stated in said policy or policies and continuing until canceled as provided herein to provide liability insurance covering the obligations imposed upon such contractor by the provisions of the laws of the State of New York, regulations promulgated therewith and the terms and provisions of Contract _____.

Such insurance as is herein certified (1) applies to all operations of said insured in connection with the work required by the provisions of the documents forming the contract, (2) also applies on the effective date stated above, whether or not the contract documents between the insured contractor and the municipality have been executed, and (3) is written in accordance with the company's regular policies and endorsements, subject to the company's applicable manuals or rules and rates in effect, as modified and amended by this certificate and the insurance provisions of the contract.

This Certificate is furnished in accordance with the specifications of the New York State of Department of Transportation for the construction and reconstruction of municipal highways, bridges and related projects, covering the operations herein described.

These certificates described herein may not be canceled without cancellation of a policy to which it is attached. Such cancellation may be issued by the company or the insured giving thirty (30) days' notice in writing to the Municipality, such thirty (30) days' notice to commence to run from the date notice is actually received by the municipality at _____. No policy referred to herein shall be changed, canceled or
(address)
coverage terminated for any reason including expiration of the policy or nonpayment of premiums until thirty (30) days written notice has been received by the Responsible Local Official. Such notice shall be mailed via certified mail or registered mail.

Policy coverage MUST agree with coverage stated on this Certificate. False statements of coverage are punishable under Section 117 of the New York State Insurance Law. As indicated in Section 107-06 of the NYSDOT Standard Specifications, limits of coverage NOT to be amended with deductible clauses of any kind.

_____
_____
_____
_____

(Name and Address of Insurance Company)

By: _____
(Signature of Authorized Representative)

Dated: _____ RUBBER STAMP NOT ACCEPTABLE

Agency Name and Address:

_____
_____
_____

Dated: _____

Telephone Number: _____

Certificate of Insurance
REVERSE 8/99

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ASPHALT PRICE ADJUSTMENT

ASPHALT PRICE ADJUSTMENT CONVERSION FACTORS		
MATERIAL DESCRIPTION	**CONVERSION FACTOR**	*** ITEM NUMBER**
Bituminous Stabilized Course	0.085 t PGB/m³	302.01, .0102
Asphalt Treated Permeable Base Type 1	0.030 t PGB/t	402.010901
Asphalt Treated Permeable Base Type 2	0.035 t PGB/t	402.011901
True & Leveling	See Note 5	402.017901, 402.018901
Shim Course	0.0825 t PGB/t	402.058901
Type 10FX Top	0.055 t PGB/t	402.200401 RR
6.3 mm SUPERPAVE HMA	0.067 t PGB/t	402.067x01 RR
9.5 mm SUPERPAVE HMA	0.062 t PGB/t	402.09xx01, 402.09xx01 RR
12.5 mm SUPERPAVE HMA	0.055 t PGB/t	402.12xx01, 402.12xx01 RR
19 mm SUPERPAVE HMA	0.049 t PGB/t	402.19xx01
25 mm SUPERPAVE HMA	0.045 t PGB/t	402.25xx01
37.5 mm SUPERPAVE HMA	0.040 t PGB/t	402.37xx01
Asphaltic Sealants (ASTM 6690)	0.00072 t PGB/L	402.75XX RR
Paver Placed Surface Treatment Types A, B and C	0.0016 t PGB/m²	402.918x02 RR, .928x02 RR, .938x02 RR
Tack Coat (Asphalt Emulsion)	0.00031 t PGB/L	407.01 RR
Bituminous Material (Pavement, Shoulders)	0.00065 t PGB/L	410.07
Micro-Surfacing, Type II	0.090 t PGB/t	410.102102 RR
Micro-Surfacing, Type III and Rut Filling	0.075 t PGB/t	410.103102 RR, .104102 RR
Quick-Set Slurry, Type II	0.115 t PGB/t	410.202302 RR
Quick-Set Slurry, Type III	0.100 t PGB/t	410.203302 RR
Asphalt Sidewalks, Driveways	See Note 5	608.02xx RR
Miscellaneous Asphalt 702-07	0.00106 t PGB/L	618.07
Asphalt Emulsion 702-3001	0.00055 t PGB/L	618.3001, 407.02 RR
Asphalt Emulsion 702-3101, 702-3102	0.00063 t PGB/L	618.3101, 618.3102
Asphalt Emulsion 702-3201, 702-3301, 702-3401, 702-3402	0.00065 t PGB/L	618.3201, 618.3301, 618.3401, 618.3402
Asphalt Emulsion 702-3501, 702-3601	0.00057 t PGB/L	618.3501, 618.3601
Cationic Asphalt Emulsion 702-4001	0.00060 t PGB/L	618.4001, 407.02 RR
Cationic Asphalt Emulsion 702-4101, 702-4201, 702-4301	0.00065 t PGB/L	618.4101, 618.4201, 618.4301
Cationic Asphalt Emulsion 702-4401, 702-4501	0.00057 PGB/L	618.4401, 618.4501

Notes:

1. In accordance with Standard Specification §698-3.01, the index value for the asphalt price adjustment is the average posted price of Performance Graded Binder (PGB) for the month of bid letting.

ASPHALT PRICE ADJUSTMENT

2. A two digit suffix (RR) at the end of a contract pay item indicates a special specification.

3. Quality Adjustment Items (402/608) are not eligible for fuel or asphalt price adjustment.

4. The conversion factors for HMA mixed with slag shall be increased by 25%.

5. The conversion factor for True & Leveling, Driveways, or other items that allow mix options will be based on the actual mixtures used.

* Item Number: This is the contract pay item number (M is omitted in the table) under which these materials are most frequently paid. Unless indicated otherwise, materials similar to those indicated under the column entitled "Material Description" are also eligible for adjustment using the factor listed for a similar material with the same pay units regardless of the actual contract pay item number. Contact the Regional Materials Engineer with any questions regarding applicability of contract pay items that are not listed.

t = metric ton = 1,000 kg

FUEL PRICE ADJUSTMENT

FUEL PRICE ADJUSTMENT USAGE FACTORS		
MATERIAL DESCRIPTION	**USAGE FACTOR**	*** ITEM NUMBER**
Excavation & Embankment	2.23 L/m^3	203.05, 203.06, 203.07, 203.08, 203.20, 203.21 and 203.25
Excavation	1.73 L/m^3	203.02
Embankment	0.50 L/m^3	203.03
Controlled Low Strength Material	4.95 L/m^3	204.01, 204.02
Structure/Trench/Culvert Excavation	2.48 L/m^3	206.01, 206.02, and 206.04
Bituminous Stabilized Course	6.93 L/m^3	302.01
Subbase Course	4.70 L/m^3	All 304 Items
Hot Mix Asphalt	10.3 L/t	402 Items and 608.02xx RR
Cold Milling	0.50 L/m^2	All 490 Items
Portland Cement Concrete Pavement	4.95 L/m^3	502 Items
Footing Concrete & Concrete for Structures - All classes (A, F, G, HP, etc.)	4.95 L/m^3	555.xx
Approach Slabs and Structural Slabs with bottom formwork	0.98 L/m^2	557.xx
Structural Slabs - no bottom formwork	0.49 L/m^2	557.xx
Class D Concrete	0.24 L/m^2	557.13
Topsoil	0.50 L/m^3	613.02, 613.03

Notes:

1. In accordance with Standard Specification §698-3.02, the index value for the fuel price adjustment is the average posted price for the month of bid letting.

2. Quality Adjustment Items (402/502/608) are not eligible for fuel price adjustment.

* Item Number: This is the contract pay item number (M is omitted in the table) under which these materials are most frequently paid. Unless indicated otherwise, materials similar to those indicated under the column entitled "Material Description" are also eligible for adjustment using the factor listed for a similar material with the same pay units regardless of the actual contract pay item number. Contact the Regional Materials Engineer with any questions regarding applicability of contract pay items that are not listed.

t = metric ton = 1,000 kg

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SPECIAL NOTE

SECTION 637 - PAY ITEM QUANTITIES

Pay Item Description	Pay Item	Quantity of Pay Item to be included in Contract
Office Technology & Supplies	637.34	Laptop Computers 3 (including docking stations) Desk Top Computer 1 Printer/Scanner 1 High Speed Internet Connection 1 Digital Camera 2 LAN 1

All Office Technology and Supplies will remain the property of Contractor at the completion of the project.

The technical specifications for the desk top computer, laptop computer, printer, high speed internet connection, LAN and digital camera are shown below:

SPECIAL NOTE

TECHNICAL REQUIREMENTS FOR
ITEM 637.34 - OFFICE TECHNOLOGY & SUPPLIES

Equipment to be **Provided**:
('Quantity' refers to the number of units to be provided (1,2, 3, etc.). it is subject to change by the Engineer)

Laptop Computer(s)	**Quantity**	**3**
Desk Top Computer(s)	**Quantity**	**1**
LAN	**Quantity**	**1**
Laser Color Printer(s) (11 X 17)	**Quantity**	**1**
Digital Camera(s)	**Quantity**	**2**

Technical Specifications:
This pay item shall include all the components, peripherals, software, and accessories specified as follows:
[Note: If a specification is followed by "(minimum)" then the stated requirement or better is acceptable. Otherwise, only the stated requirement is acceptable]

COMPUTER (Desk Top / Laptop)
Provide the following general computer specifications:

- Operating System - Windows 7.0 Home Premium w/latest updates
- Processor – Intel Core i3 processor (or equivalent), 2.3 GHz (minimum)
- Memory - 6 GB RAM (minimum)
- Graphics - 256 MB Video RAM (minimum)
- Hard Drive - Internal 300GB (minimum)
- Optical Disc Drive - Internal DVD Writer (DVD-R/RW)
- Modem - Internal, 56k modem (minimum)
- Laptop Monitor - 17", color, flat panel (minimum)
- Desk Top Monitor - 24", color, flat panel (minimum)
- Network Card - 10/100 cable Ethernet or 54 Mbps (minimum) wireless
- Additional Hardware - Mouse, keyboard, sound card w/ speakers, 2 USB ports, 1 serial port, and 1 printer port (minimum)

LAN (NETWORK)

- 10/100 cabled Ethernet network or 54Mbps wireless network (minimum)
- Switch – 10/100 (or wireless), autosensing, capable of networking all computers, printers, and other hardware (minimum). The specific make/model switch to be provided must be approved by the Engineer.
- Cables – Category 5, UTP, network cables (unless wireless)

Reminder: Network Cards supplied must match the LAN requirements.

SPECIAL NOTE

TECHNICAL REQUIREMENTS FOR
ITEM 637.34 - OFFICE TECHNOLOGY & SUPPLIES

MULTIFUNCTION PRINTER or As Approved By The Engineer
Laser color printer (* must have scanning and fax capability)

- Paper Size - Capable of printing on 11" x 17" paper
- Resolution - 600 x 600 dpi, black (minimum)
- Memory - 16 MB (minimum)
- Print Speed - 15 ppm (minimum)
- w/ postscript level 2 emulation (minimum)
- Must be stand-alone wireless and ethernet ready

HIGH SPEED INTERNET
Must be stand-alone DSL or high speed equivalent, Dial-up over phone line is not acceptable

DIGITAL CAMERA

- Minimum 10.0 mega pixel resolution with minimum 3x optical zoom and auto focus operation
- 1-1/2 inch LCD screen and optical view finder
- Built-in intelligent flash (auto/on/off)
- Time/date stamp on each picture
- A total of two (2) rechargeable sets of batteries (Lithium-Ion or NiMH) and high-capacity (approximately 1 hour) charging unit
- *Two (2) 512 MB memory cards commercially available removable recording media
- Soft storage/carry case with-shoulder strap
- All necessary hardware, cables, operating manuals and other pertinent media required for the operation of the camera unit itself, including connecting the camera to the office computer system shall be provided.
- The camera must be able to download the images to a computer without any proprietary software having to be installed on a computer.
- The equipment shall be no more than one (1) year old. To verify the age of the equipment, the Contractor shall provide the Engineer with a dated copy of the receipt(s) for the purchase of the equipment.

[Notes: If a specification is followed by "(minimum)" then the stated requirement or better is acceptable. Otherwise, only the stated requirement is acceptable. For accessories proceeded by "(*)", the Contractor shall replenish these items, under the `Office Technology Supplies' pay item, as required by the Engineer and be of a type, size, quality, and capacity acceptable to the Engineer. These items shall remain the property of the Contractor.]

ACCESSORIES

- Printer cable to connect the printer to a computer or network
- *2 USB 2.0 Removable Storage Devices, 8 Gig storage Min.

SPECIAL NOTE

TECHNICAL REQUIREMENTS FOR
ITEM 637.34 - OFFICE TECHNOLOGY & SUPPLIES

SOFTWARE

[Note: For software versions followed by an "*", supply the most current version.]

Type of Software	NYSDOT Requirement/Standard
Office Suite	Office Home & Business 2010 or latest version (Microsoft)
Portable Document (.PDF) Reader	Acrobat Reader 10.1* (Adobe)
Virus Protection/Computer Utilities	Norton 360 Version 5* (Symantec)
Virus Definition Updates	For the virus protection software, it is required to maintain the virus definitions for the duration of contract, this typically requires a service subscription for the updates after the first year.
Firewall	included in Norton 360 listed above
Firewall Updates	For the firewall software, it is required to maintain the virus definitions for the duration of contract, this typically requires a service subscription for the updates after the first 1 or 2 years.
File Compression	WinZip 15.5* (WinZip Computing) [Note: must provide a licensed copy]
E-mail	Included in "Office Suite" above.
Off Site Data Backup	Carbonite (latest version)
CPM Schedule	AEC FastTrack Schedule 10 (Latest Version)

Software provided by others, which the computer must be capable of operating:

Type of Software	NYSDOT Standard
Construction Management	CEES (NYSDOT) and APPIA (web based)
CADD – drafting	None
CADD - file management	None

SECTION 00160

SPECIAL NOTE

CPM SCHEDULING

The purpose of the computerized CPM Schedule is to ensure timely completion of the contract and to establish a standard methodology for time adjustment analysis based on principles of the Critical Path Method of Scheduling. The CPM schedule shall be prepared based on the principles defined by the latest issue of the *Construction Planning & Scheduling Manual* published by the AGC of America.

PRE CONSTRUCTION MEETING

The contractor shall submit the Initial Baseline CPM Schedule for the project. This schedule shall include all work and activities necessary to complete the project by the completion date. The Initial Baseline CPM Schedule must be set up to conform with the phasing/staging defined in the contract. The Initial Baseline CPM Schedule shall meet all interim milestone dates and not extend beyond the completion date.

MINIMUM SCHEDULE REQUIREMENTS

The schedule network shall use the Precedence Diagram Method.

The calendar shall show workdays, holiday periods, and seasonal restrictions.

Each Activity shall indicate the duration, start, end, constraints & relationships.

A GANTT chart style shall be supplied for review and comment.

SCHEDULE UPDATES

The contractor shall submit the CPM update bi-weekly. The update shall detail progress based on actual dates and durations for activities for this period of time. An electronic file shall be submitted for each update.

CHANGES TO THE SCHEDULE

Changes to the schedule (Addition or deletion of activities, logic changes and durations) shall be submitted the Engineer for review and included in the Bi-Weekly Update. Changes to the contract milestones or contract mandated schedule provisions will not be permitted without written authorization from the Engineer.

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BIDDING AND CONTRACT REQUIREMENTS TO BE SUBMITTED WITH BID

00110

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SECTION 00301
BIDDER'S CHECKLIST

(All pages of this color to be completed by Bidder PRIOR to Bid Submission)

Bid Prices, Section 00370: All blanks appropriately filled in ink with both words and figures, and signed where applicable. ☐

State and Federal Requirements: Each of the following forms must be executed:

DISCLOSURE OF LOBBYING ACTIVITIES, Section 00371 Requires completion. ☐

NON-COLLUSIVE BIDDING CERTIFICATION, Section 00480 Requires Bidder's signature. ☐

STATEMENT OF SURETY'S INTENT, Section 00481 Requires completion and signature by Surety's Representative. ☐

DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION GOALS, Section 00489 Requires completion. ☐

EQUAL EMPLOYMENT OPPORTUNITY UTILIZATION REQUIREMENTS, Section 00490: Requires completion. ☐

BID SECURITY, Section 00499: Attach Bid Security to page labeled "BID SECURITY" (ATTACH HERE - CERTIFIED CHECK, CASH OR BID BOND). ☐

NOTE: To Bid all Contracts, the Bidder must fill in all pages this color.

END OF SECTION

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BID FOR THE RECONSTRUCTION/REHABILITATION OF
OLD MILITARY ROAD (CR 35) – PHASE 1
PIN 1754.96

BID FORM

TO ESSEX COUNTY

Pursuant to and in compliance with your Advertisement for Bids and the Information for Bidders relating thereto, the undersigned hereby offers to furnish all plant, labor, materials, supplies, equipment, allowances and other facilities and things necessary or proper for or incidental to the construction and completion of the Reconstruction/Rehabilitation of Old Military Road (CR 35) – Phase 1, PIN 1754.96, required by and in strict accordance with the applicable provisions of all Contract Documents for the following lump sum prices:

SECTION 00370

BID FOR THE RECONSTRUCTION/REHABILITATION OF
OLD MILITARY ROAD (CR 35) – PHASE 1
PIN 1754.96

The signer of this Proposal as Bidder declares that the only person, persons, company or parties interested in the proposal are named in this Proposal; that the Bid is made without any connection with any person making another Bid for the same Contract; that the Bid is in all respects fair and without collusion or fraud; that no officer, agent or employee of the Owner is directly or indirectly interested in the Bid; and that he has carefully examined the annexed form of Contract and Contract Documents.

In accordance with Section 139-d of the State Finance Law, Section 103-d of the General Municipal Law, or Section 2878 of the Public Authorities Law, the Bidder further certifies that: (a) the Bid has been arrived at by the Bidder independently and has been submitted without collusion with any other vendor of materials, supplies or equipment of the type described in the invitation for Bids; and (b) the contents of the Bid have not been communicated by the Bidder nor, to its best knowledge and belief, by any of its employees or agents, to any person not an employee or agent of the Bidder or its surety on any bond furnished herewith prior to the official opening of the Bid. Section 620 of the Penal Law makes violation of this statute a crime punishable as perjury.

If written notice of the acceptance of this Bid is mailed, telegraphed or delivered to the undersigned within forty-five (45) days after the date of opening of the Bids, or any time thereafter before this Bid is withdrawn, the undersigned will, within five (5) days after the date of such mailing, telegraphing, or delivering of such notice, execute and deliver a contract in the form of Contract attached hereto.

The undersigned hereby designates as his office to which such notice of acceptance may be mailed, telegraphed or delivered:

_____

_____

The undersigned further agrees to comply with the requirements as to conditions of employment, wage rates and hours of labor set forth in the Contract Documents.

This bid may be withdrawn at any time prior to the scheduled time for the opening of bids or any authorized postponement thereof.

BID FOR THE RECONSTRUCTION/REHABILITATION OF OLD MILITARY ROAD (CR 35) – PHASE 1 PIN 1754.96

Accompanying this Bid, is a Bid security in the form of a certified check*, cash*, or a bid bond* for the sum of _____ ($_____) Dollars. In case this Bid is accepted by the Owners, and the undersigned shall fail to execute a contract with and give the required bonds to the Owner within five (5) days after the date of a written notice by the Owner to the undersigned so to do, this Bid security shall be forfeited and will be retained by the Owner as liquidated damages.

Dated_____, 20_____**_____

_____

_____

_____
Signature of Bidder

Print Name of Signer of Bid _____

Address _____

_____

* Cross out designations not applicable.

** Insert bidder's name; if a corporation, give the state of incorporation using the phrase "a corporation organized under the law of'; if a partnership, give the name of the partners, using also the phrase "co-partners trading and doing business under the firm name and style of'; if an individual using a trade name, give individual name, using also the phrase "an individual doing business under the firm name and style of".

END OF SECTION

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BID
RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96

BROUGHT FORWARD _____

ITEM NUMBER	ESTIMATED QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
201.06	NEC	CLEARING AND GRUBBING FOR ....PER LUMP SUM				
202.120001	NEC	REMOVING EXISTING SUPERSTRUCTURES FOR ....PER LUMP SUM				
202.19	60	REMOVAL OF SUBSTRUCTURES FOR ....PER CUBIC METER				
203.02	32,400	UNCLASSIFIED EXCAVATION AND DISPOSAL FOR ....PER CUBIC METER				
203.03	3,900	EMBANKMENT IN PLACE FOR ....PER CUBIC METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
203.07	6,675	SELECT GRANULAR FILL FOR ....PER CUBIC METER				
203.21	250	SELECT STRUCTURE FILL FOR ....PER CUBIC METER				
206.01	2,185	STRUCTURE EXCAVATION FOR ....PER CUBIC METER				
206.02	1,200	TRENCH AND CULVERT EXCAVATION FOR ....PER CUBIC METER				
206.04	10,750	TRENCH AND CULVERT EXCAVATION - O.G. FOR ....PER CUBIC METER				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
206.05	8	TEST PIT EXCAVATION FOR ....EACH				
207.20	20,518	GEOTEXILE BEDDING FOR ....PER SQUARE METER				
207.23	60	GEOTEXTILE SLOPE PROTECTION FOR ....PER SQUARE METER				
207.27	225	PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN FOR ....PER SQUARE METER				
209.1003	22,000	SEED AND MULCH - TEMPORARY FOR ....PER SQUARE METER				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
209.110102	110	CHECK DAM (DITCH BOTTOM WIDTH > 1.0 TO 2.0 M), STONE-TEMPORA Y FOR ....EACH				
209.13	2,540	SILT FENCE-TEMPORARY FOR ....PER METER				
209.140201	1	SEDIMENT TRAP, SAND BAG - TEMPORARY FOR ....EACH				
209.140202	1	SEDIMENT TRAP, SAND BAG - TEMPORARY FOR ....EACH				
209.1501	120	TURBIDITY CURTAIN FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
209.1702	56	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BEG - TEMPORARY FOR ....PER CUBIC METER				
209.200201	5,000	ROLLED EROSION CONTROL PRODUCT, CLASS III TYPE B, PERMANENT FOR ....PER SQUARE METER				
209.22	490	CONSTRUCTION ENTRANCE FOR ....PER SQUARE METER				
210.481301	NEC	REMOVAL AND DISPOSAL OF MISCELLANEOUS ACM (BV14) FOR ....PER LUMP SUM				
304.12	10,750	SUBBASE COURSE, TYPE 2 FOR ....PER CUBIC METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
402.011902	6,625	TYPE 2 F9, ASPHALT-TREATED PERMEABLE BASE COURSE FOR ....PER METRIC TON				
402.011912	332	PLANT PRODUCTION ADJUSTMENT TO 402.011902 FOR ....PER QUALITY UNIT				
402.126202	2,950	12.5MM F2 TOP COURSE HMA, 60 SERIES COMPACTION FOR ....PER METRIC TON				
402.126212	147	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202 FOR ....PER QUALITY UNIT				
402.196902	3,675	19MM F9 BINDER COURSE HMA, 60 SERIES COMPACTION FOR ....PER METRIC TON				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
402.196912	183	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902 FOR ....PER QUALITY UNIT				
402.376902	7,210	37.5MM F9 BASE COURSE HMA, 60 SERIES COMPACTION FOR ....PER METRIC TON				
402.376912	360	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902 FOR ....PER QUALITY UNIT				
407.0101	15,650	TACK COAT FOR ....PER LITER				
520.5014 08	1,025	SAW CUTTING, ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OR ASPHALT OVERLAY ON CONCRETE FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
551.11	260	CAST-IN-PLACE CONCRETE PILES FOR ....PER METER				
551.13	NEC	FURNISHING EQUIPMENT FOR DRIVING PILES FOR ....PER LUMP SUM				
551.14	3	DYNAMIC PILE TESTING FOR ....EACH				
552.13	287	TEMPORARY STEEL SHEETING FOR ....PER SQUARE METER				
552.16	9,000	EXCAVATION PROTECTION SYSTEM FOR ....PER SQUARE METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
553.020001	1	COFFERDAMS (TYPE 2) FOR ....EACH				
553.020002	1	COFFERDAMS (TYPE 2) FOR ....EACH				
554.40	114	FILL TYPE RETAINING WALL (0 - 1.8M) FOR ....PER SQUARE METER				
554.41	561	FILL TYPE RETAINING WALL (GREATER THAN 1.8M - 3.7M) FOR ....PER SQUARE METER				
554.42	127	FILL TYPE RETAINING WALL (GREATER THAN 3.7M - 5.5M) FOR ....PER SQUARE METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
555.0105	20	CONCRETE FOR STRUCTURES, CLASS A FOR ....PER CUBIC METER				
555.09	120	CONCRETE FOR STRUCTURES, CLASS HP FOR ....PER SQUARE METER				
555.72 16	102	ARCHITECTURAL PATTERNING OF CONCRETE SURFACES FOR ....PER SQUARE METER				
556.0201	2,507	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES FOR ....PER KILOGRAM				
556.0202	19,761	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES FOR ....PER KILOGRAM				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
557.0109	292	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM F ORMWORK REQUIRED - TYPE 9 FRICTION FOR ....PER SQUARE METER				
557.2009	185	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYP E 9 FRICTION FOR ....PER SQUARE METER				
557.30	121	SIDEWALKS AND SAFETY WALKS FOR ....PER SQUARE METER				
558.02	340	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE FOR ....PER SQUARE METER				
559.1696 18	152	PROTECTIVE SEALING OF STRUCTURAL CONCRETE FOR ....PER SQUARE METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
559.1896 18	440	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS FOR ....PER SQUARE METER				
563.02	143	PRESTRESSED CONCRETE BOX BEAMS UNITS FOR ....PER SQUARE METER				
565.30	18	RUBBER IMPREGNATED WOVEN COTTON-POLYESTER FABRIC FOR ....EACH				
568.52	59	STEEL BRIDGE RAILING (FIVE RAIL) FOR ....PER METER				
568.70	39	TRANSITION BRIDGE RAILING FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
603.0101	13	CULVERT-END SAFETY GRATE FOR ....PER SQUARE METER				
603.171116	2	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 375 MILLIMETER DIAMETER, 16 GAUGE FOR ....EACH				
603.171216	3	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 450 MILLIMETER DIAMETER, 16 GAUGE FOR ....EACH				
603.171614	2	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 750 MILLIMETER DIAMETER, 14 GAUGE FOR ....EACH				
603.171814	1	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 900 MILLIMETER DIAMETER, 14 GAUGE FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
603.6004	15	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER FOR ....PER METER				
603.6701	26	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HEIII, 365 MILLIMETER RISE, 575 MILLIMETER SPAN FOR ....PER METER				
603.6704	11	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE,CLASS HE III, 610 MILLIMETER RISE, 960 MILLIMETER SPAN FOR ....PER METER				
603.6706	13	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HE III 730 MILLIMETER RISE, 1150 MILLIMETER SPAN FOR ....PER METER				
603.6706 08	2	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE ENDSECTION, CLASS HE III 730 MM RISE X 1150 MM SPAN FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
603.7304	1	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER FOR ....EACH				
603.77	2	CONCRETE COLLARS FOR ....EACH				
603.9812	20	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIAMETER FOR ....PER METER				
603.9815	500	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIAMETER FOR ....PER METER				
603.9818	760	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIAMETER FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
603.9824	555	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIAMETER FOR ....PER METER				
603.9830	10	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIAMETER FOR ....PER METER				
604.070101	1	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES FOR ....EACH				
604.070102	1	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES FOR ....EACH				
604.070103	1	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
604.070104	5	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES FOR ....EACH				
604.300611	115	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME FOR ....PER METER				
604.300673	35	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME FOR ....PER METER				
604.301111	3	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR #11 WELDED FRAME FOR ....PER METER				
604.301172	3	RECTANDULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
604.311132	7	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION FOR ROUND MH FRAME FOR ....PER METER				
604.4048	11	ROUND PRECAST CONCRETE MANHOLE TYPE 48 FOR ....PER METER				
604.4060	5	ROUND PRECAST CONCRETE MANHOLE TYPE 60 FOR ....PER METER				
604.500101	2	SPECIAL DRAINAGE STRUCTURE FOR ....PER METER				
604.50190108	3	OFFSET CATCH BASIN FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
604.50190208	2	OFFSET CATCH BASIN FOR ....PER METER				
604.50190308	2	OFFSET CATCH BASIN FOR ....PER METER				
604.50190408	2	OFFSET CATCH BASIN FOR ....PER METER				
604.50190508	3	OFFSET CATCH BASIN FOR ....PER METER				
604.50190608	3	OFFSET CATCH BASIN FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
604.50190708	3	OFFSET CATCH BASIN FOR ....PER METER				
604.50190808	3	OFFSET CATCH BASIN FOR ....PER METER				
604.50190908	2	OFFSET CATCHBASIN FOR ....PER METER				
604.50191008	2	OFFSET CATCHBASIN FOR ....PER METER				
604.50191108	2	OFFSET CATCHBASIN FOR ....PER METER				

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ITEM NUMBER	ESTIMATED QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
604.50191208	2	OFFSET CATCHBASIN FOR ....PER METER				
604.51020215	1	STORMWATER TREATMENT SYSTEM (SWTS) (MAXIMUM FLOW CAPACITY OF 80 L/SEC) FOR ....EACH				
604.5109 10	2	FLEXIBLE CHECK VALVE - 450 MM DIAMETER FOR ....EACH				
605.1001	1,750	UNDERDRAIN FILTER TYPE 2 FOR ....PER CUBIC METER				
605.1701	6,525	OPTIONAL UNDERDRAIN PIPE, 100 MILLIMETER DIAMETER FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
605.2502 07	22	PRECAST CONCRETE HEADWALLS FOR 100 mm LATERAL OUTLET PIPES FOR ....EACH				
605.98101818	610	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MILLIMETERS DIAMETER FOR ....PER METER				
606.10	204	BOX BEAM GUIDE RAILING FOR ....PER METER				
606.120102	4	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE I FOR ....EACH				
606.120201	4	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA FOR ....EACH				

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SECTION 00370-4
BID
RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96

BROUGHT FORWARD _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
606.50 06	55	DECORATIVE TIMBER BARRIER FOR ....PER METER				
607.91 01	81	ORNAMENTAL METAL FENCE FOR ....PER METER				
607.97 08	142	REMOVE AND RESET EXISTING FENCE FOR ....PER METER				
608.0101	43	CONCRETE SIDEWALKS AND DRIVEWAYS FOR ....PER CUBIC METER				
608.020102	400	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS ,AND VEGETATION CONTROL STRIPS FOR ....PER METRIC TON				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
608.020112	20	PLANT PRODUCTION QUALITY ADJUSTMENT TO 608.020102 FOR ....PER QUALITY UNIT				
608.21	9	EMBEDDED DETECTABLE WARNING UNITS FOR ....PER SQUARE METER				
608.9401 07	156	IMPRINTING AND COLORING OF ASPHALT CONCRET PAVEMENT FOR ....PER SQUARE METER				
609.0201	580	STONE CURB, GRANITE, (TYPE A) FOR ....PER METER				
609.0209 01	70	GRANITE CURB, TYPE T100 FOR ....PER METER				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
609.0302	35	STONE CURB - BRIDGE (TYPE F1) FOR ....PER METER				
610.0110	500	APPLYING FERTILIZER FOR ....PER KILOGRAM				
610.0203	20,150	ESTABLISHING TURF FOR ....PER SQUARE METER				
610.02030106	350	WETLAND SEEDING FOR ....PER SQUARE METER				
610.03	285	ESTABLISHING WILDFLOWERS FOR ....PER SQUARE METER				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
611.020133	42	PLANTING MINOR DECIDUOUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 1.25 METER HEIGHT BALLED & BURLAPPED,NURSERY FOR ....EACH				
611.020142	58	PLANTING MINOR DECIDUOUS TREES, 1.5 M HEIGHT, BARE ROOT, NURSERY GROWN, SPRING PLANT FOR ....EACH				
611.030155	23	PLANTING CONIFEROUS TREE SPECIES, SEE CONTRACT DOCUMENTS, 1.5 METER HEIGHT, CONTAINER GROWN FOR ....EACH				
611.030165	24	PLANTING CONIFEROUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 1.80 METER HEIGHT, CONTAINER GROWN FOR ....EACH				
611.040123	104	PLANTING DECIDUOUS SHRUBS SPECIES, SEE CONTRACT DOCUMENTS, 0.4 M HEIGHT/SPREAD, CONTAINER/POT GROWN FOR ....EACH				

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RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
611.040142	59	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.60 METER HEIGHT/SPREAD BALLED & BURLAPPED FOR ....EACH				
611.040143	148	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.60 METER HEIGHT/SPREAD CONTAINER/POT FOR ....EACH				
611.040152	115	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.90 METER HEIGHT/SPREAD BALLED & BURLAPPED FOR ....EACH				
613.01 01	4,750	WETLAND TOPSOIL FOR ....PER CUBIC METER				
613.02	860	PLACING TOPSOIL-TYPE A FOR ....PER CUBIC METER				

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RECONSTRUCTION/REHABILIATION OF OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
613.04 01	70	STOCKPILING AND PLACING STREAMBED MATERIAL FOR ....PER CUBIC METER				
614.0313	2	TREE REMOVAL, UP TO 150 MM DIAMETER, BREAST HIGH, STUMPS CUT 150 MM BELOW GRADE FOR ....EACH				
614.0323	2	TREE REMOVAL OVER 150 MM TO 300 MM DIAM. BREAST HIGH STUMP CUT 150 MM BELOW GRADE FOR ....EACH				
614.0333	11	TREE REMOVAL OVER 300 MM TO 450 MM DIAM. BREAST HIGH STUMP CUT 150 MM BELOW GRADE FOR ....EACH				
614.0343	2	TREE REMOVAL OVER 450 MM TO 600 MM DIAM. BREAST HIGH STUMP CUT 150 MM BELOW GRADE FOR ....EACH				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
615.0402 08	4,100	TREE/VEGETATION PROTECTION BARRIER FOR ....PER METER				
616.08 24	200	LIVE STAKE PLANTINGS 26MM TO 50MM FOR ....EACH				
619.01	NEC	BASIC WORK ZONE TRAFFIC CONTROL FOR ....PER LUMP SUM				
619.04	25	TYPE III CONSTRUCTION BARRICADE FOR ....EACH				
619.0801	500	REMOVE EXISTING PAVEMENT MARKING STRIPES FOR ....PER METER				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
619.100101	5,000	INTERIM PAVEMENT MARKINGS, STRIPES (TRAFFIC PAINT) FOR ....PER METER				
619.110204	4	PORTABLE, VARIABLE MESSAGE SIGN (PVMS) (LED) (CELLULAR COMMUNICATIONS AND RADAR) FOR ....EACH				
619.1702	100	TEMPORARY CONCRETE BARRIER, (UNPINNED) WITH WARNING LIGHTS FOR ....PER METER				
619.1704	420	TEMPORARY CONCRETE BARRIER, (PINNED) WITH WARNING LIGHTS FOR ....PER METER				
619.27	60	MAILBOXES FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
620.03	600	STONE FILLING (LIGHT) FOR ....PER CUBIC METER				
620.04	1,750	STONE FILLING (MEDIUM) FOR ....PER CUBIC METER				
620.05	405	STONE FILLING (HEAVY) FOR ....PER CUBIC METER				
621.51 15	28	GRADING CLEANING AND RESHAPING EXISTING DITCHES FOR ....PER METER				
623.11	580	CRUSHED GRAVEL (IN-PLACE MEASURE) FOR ....PER CUBIC METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
623.12	10	CRUSHED STONE, (IN-PLACE MEASURE) FOR ....PER CUBIC METER				
624.0109	2,152	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS TYPE BB FOR ....PER SQUARE METER				
625.01	NEC	SURVEY OPERATIONS FOR ....PER LUMP SUM				
625.05	36	STEEL PIN AND CAP RIGHT-OF-WAY MARKER FOR ....EACH				
637.03	1	CONCRETE CYLINDER CURING BOX FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
637.12	19	ENGINEER'S FIELD OFFICE - TYPE 2 FOR ....PER MONTH				
637.21	2,500	MOBILE TELEPHONE FOR ....PER DOLLARS CENTS	$1	00	$2,500	00
637.26	1	RAIN GAUGE FOR ....EACH				
637.34	13,000	OFFICE TECHNOLOGY AND SUPPLIES FOR ....PER DOLLARS CENTS	$1	00	$13,000	00
640.20	6,400	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES - 0.51 MM FOR ....PER METER				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
640.21	5,280	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES - 0.51 MM FOR ....PER METER				
640.22	4	WHITE PAINT REFLECTORIZED PAVEMENT LETTERS - 0.51 MM FOR ....EACH				
645.5102	20	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 2.78 SM WITH Z-BARS FOR ....PER SQUARE METER				
645.5202	10	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 2.78 SM WITH Z-BARS, HIGH-VISIBILITY SHEETING FOR ....PER SQUARE METER				
645.81	50	TYPE A SIGN POSTS FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
646.22	20	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS FOR ....EACH				
647.01	60	REMOVAL OF SIGNS - SIZE A (0.0-1.0 SQUARE METERS) FOR ....EACH				
650.1024	60	TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 600MM (600 MM) FOR ....PER METER				
650.2136	34	TRENCHLESS INSTALLATION OF CASING UNDER RAILROAD WITH A DIAMETER > THAN 600MM AND < OR EQUAL TO 1060MM (900 MM) FOR ....PER METER				
655.0705	1	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2 FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
655.0706	12	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3 FOR ....EACH				
655.1111	59	WELDED FRAME AND RETICULINE GRATE 11 FOR ....EACH				
655.1202	22	MANHOLE FRAME AND COVER FOR ....EACH				
663.0106	22	DUCTILE IRON CEMENT LINED WATER PIPE, 6 NPS FOR ....PER METER				
663.0108	110	DUCTILE IRON CEMENT LINED WATER PIPE, 8 NPS FOR ....PER METER				

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
663.0112	505	DUCTILE IRON CEMENT LINED WATER PIPE, 12 NPS FOR ....PER METER				
663.0604	175	COPPER WATER SERVICE PIPE 1 NPS FOR ....PER METER				
663.1006	4	RESILIENT WEDGE VALVE & VALVE BOX, 6 NPS FOR ....EACH				
663.1008	2	RESILIENT WEDGE VALVE & VALVE BOX, 8 NPS FOR ....EACH				
663.1012	5	RESILIENT WEDGE VALVE & VALVE BOX, 12 NPS FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
663.1301	1	HYDRANT FOR ....EACH				
663.1302	1	HYDRANT FOR ....EACH				
663.1303	1	HYDRANT FOR ....EACH				
663.1304	1	HYDRANT FOR ....EACH				
663.2001	600	IRON WATER MAIN FITTINGS (3 NPS - 8 NPS) FOR ....PER KILOGRAM				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
663.2002	3,720	IRON WATER MAIN FITTINGS (10 NPS - 16 NPS) FOR ....PER KILOGRAM				
663.2504	20	WATER SERVICE CONNECTION, 1 NPS FOR ....EACH				
663.33	18	ADJUST EXISTING VALVE BOX ELEVATION FOR ....EACH				
663.34	2	ADJUST EXISTING HYDRANT ELEVATION FOR ....EACH				
663.35	5	ADJUST EXISTING CURB BOX ELEVATION FOR ....EACH				

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ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
663.40	2	DISCONNECT AND CAP EXISTING WATER MAIN FOR ....EACH				
663.4112	50	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 12 NPS FOR ....PER METER				
663.46	3	REMOVE AND STORE EXISTING HYDRANT FOR ....EACH				
664.9408 08	50	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 8 NPS (GRAVITY) FOR ....PER METER				
697.03	343,258	FIELD CHANGE PAYMENT FOR ....PER DOLLARS CENTS	$1	00	$343,258	00

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VILLAGE OF LAKE PLACID,TOWN OF NORTH ELBA, ESSEX COUNTY

PIN: 1754.96 **BROUGHT FORWARD** _____

ITEM NUMBER	ESTIMATE QUANTITIES	ITEMS WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT BID PRICE		AMOUNT BID	
			DOLLARS	CTS.	DOLLARS	CTS.
698.04	100	ASPHALT PRICE ADJUSTMENT FOR ....PER DOLLARS CENTS	$1	00	$100	00
698.05	100	FUEL PRICE ADJUSTMENT FOR ....PER DOLLARS CENTS	$1	00	$100	00
699.040001	NEC	MOBILIZATION (NO MORE THEN 4% OF SUBTOTAL AMOUNT) FOR ....PER LUMP SUM				

TOTAL PRICE BID IN WORDS	TOTAL AMOUNT
	$_____

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CERTIFICATION FOR FEDERAL AID CONTRACTS

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his/her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress, in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress, in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U. S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000.00 and not more than $100,000.00 for each such failure.

The prospective participant also agrees by submitting his/her bid or proposal that he/she shall require that the language of this certification be included in all lower tier subcontracts which exceed $100,000.00 and that such subrecipients shall certify and disclose accordingly.

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.

2. Identify the status of the covered Federal action.

3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.

4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants, and contract awards under grants.

5. If the organization filing the report in item 4 checks "Subawardee", then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.

6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.

7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001".

9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.

10. (a) Enter the full name, address, city, state and zip code for the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the Federal covered action.

(b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).

11. The certifying official shall sign and date the form; print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB Control Number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington D.C. 20503.

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DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 (See reverse for public burden disclosure.)

1. Type of Federal Action:	2. Status of Federal Action:	3. Report Type:
a. contract	a. bid/offer/application	a. initial filing
b. grant c. cooperative agreement d. loan	b. initial award c. post-award	b. material change **For Material Change Only:** year quarter
e. loan guarantee		date of last report
f. loan insurance		

4. Name and Address of Reporting Entity: ❑ Prime ❑ Subawardee Tier , *if known:*	**5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime:**
Congressional District, *if known:*	**Congressional District,** *if known:*
6. Federal Department/Agency:	**7. Federal Program Name/Description:** CFDA Number, *if applicable:*
8. Federal Action Number, *if known:*	**9. Award Amount,** *if known:* $
10. a. Name and Address of Lobbying Registrant *(if individual, last name, first name, MI):*	**b. Individuals Performing Services** *(including address if different from No. 10a) (last name, first name, MI):*
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.	Signature: Print Name: Title: Telephone No.: Date:
Federal Use Only:	Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)

REQUIREMENTS REGARDING LOBBYING ACTIVITIES ON FEDERAL AID CONTRACTS

DISCLOSURE OF LOBBYING ACTIVITIES

Continuation Sheet

Approved by OMB 0348-0046

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NON-COLLUSIVE BIDDING CERTIFICATIONS

REQUIRED BY SECTION 139-D, STATE FINANCE LAW and SECTION 103-D OF GENERAL MUNICIPAL LAW

"Section 139-d, SFL and Section 103-d, GML, "Statement of non-collusion in bids to the state."

1. Every bid hereafter made to the state or any public department, agency, or official thereof, where competitive bidding is required by statute, rule, or regulation, for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed by the bidder and affirmed by such bidder as true under the penalties of perjury:

Non-collusive bidding certification.

(a) By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his knowledge and belief:

(1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

(2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and

(3) No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a bid for the purpose of restricting competition.

(b) A bid shall not be considered for award nor shall any award be made where (a)(1)(2) and (3) above have not been complied with; provided however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefor. Where (a)(1)(2) and (3) above have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of the state, public department, or agency to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that the bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customers of proposed or pending publication of new or revised price lists for such items or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of subparagraph one (a).

2. Any bid hereafter made to the state or any public department, agency, or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, or regulation, and where such bid contains the certification referred to in subdivision one of this section, shall be deemed to have been authorized by the board of directors of the bidder and such authorization shall be deemed to have included the signing and submission of the bid and the inclusion therein of the certificate as to non collusion as the act and deed of the corporation."

REQUIRED BY TITLE 23, U. S. CODE, AND SECTION 112. A NON-COLLUSIVE BIDDING CERTIFICATION MUST BE INCLUDED IN EVERY BID PROPOSAL REGARDLESS OF WHETHER NYSDOT SPECIFICATIONS OR LOCAL SPECIFICATIONS ARE USED.

(A)2
"By submission of this bid, the bidder does hereby tender to the Owner this sworn statement pursuant to Section 1128 of Title 23, U. S. Code-Highways and does hereby certify, in conformance with said Section 112 of Title 23, U. S. Code-Highways that the said Contractor has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the above contract."

REQUIRED BY TITLE 49, CFR, VOLUME 1, SUBTITLE A, PART 29

"The signator to the proposal, being duly sworn, certifies that, EXCEPT AS NOTED BELOW, his/her company and any person associated therewith in the capacity of owner, partner, director, officer, or major stockholder (of five percent or more ownership):

1. Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal agency;

2. Has not been suspended, debarred, voluntarily excluded, or determined ineligible by any Federal agency within the past three years;

3. Does not have a proposed debarment pending; and

4. Has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.

EXCEPTIONS: The Contractor should list any relevant information, attaching additional sheets to the proposal if necessary. (Exceptions will not necessarily result in disapproval, but will be considered in determining responsibility. For any exception noted, the Contractor should indicate to whom it applies, the initiating agency, and the dates of actions. Providing false information may result in criminal prosecution or administrative sanctions).

THESE MUST BE INCLUDED IN ALL FEDERAL AID CONTRACTS. HOWEVER, THE NYS COLLUSIVE BIDDING CERTIFICATION AND MANY IN USE BY LOCAL GOVERNMENTS ARE ALMOST IDENTICAL AND ARE ACCEPTABLE.

THE FOLLOWING PAGES ARE THE REQUIRED CERTIFICATION REGARDING NON-COLLUSIVE BIDDING PROCEDURES AND THE CONTRACTOR'S ELIGIBILITY TO SUBMIT A BID UNDER FEDERAL LAW. THE LAST PAGE IS A GENERAL BIDDER INFORMATION FORM. ALL SHOULD BE INCLUDED IN THE CONTRACT DOCUMENTS, IMMEDIATELY FOLLOWING THE PAGE(S) WHICH CONTAINS THE NON-COLLUSIVE BIDDING REQUIREMENTS. BY SIGNING ONE OF THESE CERTIFICATIONS, THE CONTRACTOR CERTIFIES THAT HE UNDERSTANDS AND AGREES TO BE BOUND BY THE PROVISIONS OF THE FOLLOWING LAWS:

1. NEW YORK STATE FINANCE LAW, ARTICLE 9, SECTION 139-d

2. TITLE 49, CFR, PART 29

3. TITLE 23, U. S. CODE-HIGHWAYS, SECTION 112

THE CONTRACTOR SHOULD CHOOSE THE APPROPRIATE NOTARIZATION WHICH CORRESPONDS TO THE TYPE OF COMPANY (SOLE PROPRIETORSHIP, PARTNERSHIP, OR CORPORATION) THAT HE/SHE REPRESENTS OR IS AFFILIATED WITH. ALL BIDDERS SHOULD FILL OUT THE APPROPRIATE SECTION OF THE BIDDER INFORMATION SHEET.

BY EXECUTING THIS DOCUMENT, THE CONTRACTOR AGREES TO:

1. Perform all work listed in accordance with the Contract Documents at the unit prices bid; subject to the provisions of Section 104 -04, Standard Specifications, Construction and Materials, published by the New York State Department of Transportation, and dated May 4, 2006, if applicable;

2. All the terms and conditions of the non-collusive bidding certifications required by Section 139-d of the State Finance Law, and Section 112, Title 23, U.S. Code;

3. Certification of Specialty Items category selected, if contained in this proposal;

4. Certification of any other clauses required by this proposal and contained herein;

5. Certification, under penalty of perjury, as to the current history regarding suspensions, debarments, voluntary exclusions, determinations of ineligibility, indictments, convictions, or civil judgments required by 49 CFR Part 29.

Date:

(Legal Name of Person, Corporation, or Firm Which is Submitting Bid or Proposal)

BY: _____
(Signature of Person Representing Above)

AS: _____
(Official Title of Signator in Above Firm)

(Acknowledgment by Individual Contractor, If a Corporation)

STATE OF NEW YORK)
) SS:
COUNTY OF)

On this day of , 20 , before me personally

came _, to me known and known to me to be the person who

executed the above instrument, who being duly sworn by me, did depose and say that he/she resides at

, and that he/she is the

of the

corporation described in and which executed the above instrument, and that he/she signed his/her name

thereto on behalf of said Corporation by order of the Board of Directors of said Corporation.

Notary Public

(Acknowledgment by Co-Partnership Contractor)

STATE OF NEW YORK)
) SS:
COUNTY OF)

On this _____ day of _____, 20_____, before me
personally came _____, to me known and known to
me to be the person described in and who executed the above instrument, who, being duly sworn
by me, did for himself/herself depose and say that he/she is a member of the firm of
, consisting of himself/ herself and
, and that he/she executed the foregoing instrument in the firm name of
and that
he/she had authority to sign same, and did duly acknowledge to me that he/she executed same as
the act and deed of said firm of for the uses and
purposes mentioned herein.

_____

Notary Public

(Acknowledgment by Individual Contractor)

STATE OF NEW YORK)
) SS:
COUNTY OF)

On this _____ day of _____, 20_____,
before me personally came _____, to me known and
known to me to be described in and who executed the foregoing instrument, and that he/she
acknowledged that he/she executed the same.

_____
Notary Public

NON-COLLUSIVE BIDDING CERTIFICATION BIDDER INFORMATION

Bidder to provide information listed below:

Bidder Address: _____
Street or P. O. Box No.

_____
City

_____
State ZIP

Federal Identification No.: _____

Name of Contact Person: _____

Phone # of Contact Person: _____

If Bidder is a Corporation:

President's Name & Address:

_____

Secretary's Name & Address:

_____

Treasurer's Name & Address:

_____

If Bidder is a Partnership:

Partner's Name & Address:

_____

Partner's Name & Address:

_____

If Bidder is a Sole Proprietorship:

Owner's Name & Address:

_____

REPORTING VIOLATIONS OF NON-COLLUSIVE BIDDING PROCEDURES, MISCONDUCT, OR OTHER PROHIBITED CONTRACT ACTIVITIES

U. S. DEPARTMENT OF TRANSPORTATION HOTLINE. Persons with knowledge of bid collusion (i.e., contractors, suppliers, workers, etc.) or other questionable contract related practices (inadequate materials, poor workmanship, theft of materials, etc.) are encouraged to report such activities by calling the U. S. D. O. T. HOTLINE. The HOTLINE number is 1-800-424-9071 and calls will be answered from 8:00 A.M. to 5:00 P.M. EST, Monday thru Friday. This HOTLINE is under the direction of the U.S.D.O.T.'s Inspector General. All information will be treated confidentially and the caller's anonymity will be respected.

NEW YORK STATE INSPECTOR GENERAL HOTLINE. Reports of New York State Governmental Misconduct may be made in strict confidence to the New York State Inspector General on the Toll Free Statewide HOTLINE or by writing to the Office of the Inspector General. The Toll Free Statewide HOTLINE telephone number is 1-800-367-4448 and calls will be answered between 8:00 A.M. and 4:30 P.M., Monday through Friday. The address of the Office of the State Inspector General is the State Capitol, Executive Chamber, Albany, New York 12224.

THIS IS REQUIRED IN ALL FEDERAL AID CONTRACTS.

NON-COLLUSIVE BIDDING CERTIFICATION

1. By submission of this bid, the undersigned bidder and each person signing on behalf of such bidder certifies and in the case of a joint bid each party thereto certifies as to its own organization — UNDER PENALTY OF PERJURY, that to the best of the undersigned's knowledge and belief:

(a) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

(b) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and

(c) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

2. The undersigned acknowledges and agrees that a bid shall not be considered for award nor shall any award be made where any of the above have not been complied with; provided however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefor. Where one or more of the above has/have not been complied with, the bid shall not be considered for award nor shall any award be made unless the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

3. The undersigned also acknowledges and agrees that the fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customers of proposed or pending publication of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph 1 above.

4. The undersigned further acknowledges and agrees that any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a bidder which is a corporation or a limited liability company for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, or local law, and where such bid contains the certification referred to in paragraph 1 of this certificate, shall be deemed to have been authorized by the board of directors of the bidder, and such authorization shall be deemed to include the signing and submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation or limited liability company.

Name of Bidder: _____
(print full legal name)

Date Signed: _____ Signature: _____

Name of Person Signing Certificate: _____
(print full legal name of signer)

Bidder is (check one): □ an individual, □ a limited liability partnership, □ a limited liability company, □ other entity (specify): _____

CONTRACTOR'S ACKNOWLEDGEMENT
(If Corporation)

STATE OF NEW YORK) SS:
COUNTY OF ESSEX)

On this _____ day of _____ 20____, before me personally came _____ _____ to me known, and known to me to be the _____ of the Corporation described in and which executed the within instrument, who being duly sworn did depose and say that he, the said _____ reside at _____ and that he is _____ of said corporation and knows the corporate seal of the said corporation; that the seal affixed to the within instrument is such corporate seal and that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

_____
Notary Public

CONTRACTOR'S ACKNOWLEDGEMENT
(If Individual)

STATE OF NEW YORK) SS:
COUNTY OF ESSEX)

On this _____ day of _____ 20____, before me personally came _____ to me known, and known to me to be the same person described in and who executed the within instrument and he duly acknowledged to me that he executed the same for the purpose herein mentioned and, if operating under and trade name, that the certificate required by the New York State Penal Law, Sections 440 and 440-b has been filed with the County Clerk of Essex County.

_____
Notary Public

CONTRACTOR'S ACKNOWLEDGEMENT
(If Co-Partnership)

STATE OF NEW YORK) SS:
COUNTY OF ESSEX)

On this _____ day of _____ 20____, before me personally came _____ to me known, and known to me to be a member of the firm of and the person described in, and who executed the within instrument in behalf of said firm for the purposes herein mentioned and that the certificate required by the New York State Penal Law, Sections 440 and 440-b has been filed with the County Clerk of Essex County.

_____
Notary Public

SECTION 00481
STATEMENT OF SURETY'S INTENT

To: _____

We have reviewed the Bid of _____
(Contractor)

of _____
(Address)

for _____
(Project)

Bids for which will be received on _____
(Bid Opening Date)

and wish to advise that should this Bid of the Contractor be accepted and the Contract awarded to him, it is our present intention to become surety on the Performance Bond and Labor and Materials Payment Bond required by the Contract.

Any arrangement for the bonds required by the Contract is a matter between the Contractor and ourselves, and we assume no liability to you or third parties if for any reason we do not execute the requisite bonds.

We are duly authorized to transact business in the State of New York, and we appear on the U.S. Treasury Department's most current list (Circular 570 as amended).

Attest:

_____ _____

_____
Surety's Authorized Signature(s)

Attach Power of Attorney

(Corporate seal if any. If no seal, write "No Seal" across this place and sign.)

END OF SECTION

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ESSEX COUNTY

BID SECURITY FORM #1

CONSENT OF SURETY

Issued to: _____
(Name of Bidder)

CONTRACT NUMBER_____

In consideration of the premises and of one dollar to it in hand paid by the County of Essex the receipt whereof is hereby acknowledged, the undersigned contents and agrees that if the contract, for which the preceding estimate and proposal is made, be awarded to the corporation, person or persons making the same, it will become bound as surety and guarantor for its faithful performance, and will execute it as party of the third part thereto when required to do so by the said County of Essex and if the said corporation, person or persons shall omit or refuse to execute such contract if so awarded it will pay, on demand, to the said County of Essex, any difference between the sum bid by the corporation, person or persons and the sum which the said County may be obliged to pay the corporation, person or person to whom the contract may be afterwards awarded, the amount in each case to be determined by the bids for said contract.

In witness whereof, said Surety has set its seal and caused these presents to be signed by its duly authorized officers, this

_____day of _____20_____

BY: _____

(SEAL)

TITLE: _____

NOTE: Attach necessary Power of Attorney, Notarial Acknowledgment of Signature and Surety's Financial Statement.

ESSEX COUNTY

BID SECURITY FORM #2

Note: This form must be executed by your Surety and submitted with your bid if you choose to submit a bid bond instead of a certified check.

CONSENT OF SURETY AND BOND SUBSTITUTE
FOR BID GUARANTEE

Issued to: _____
(Name of Bidder)
(hereinafter the "Bidder")

Contract No: _____(hereinafter the "Contract")

In consideration of the premises and of ONE DOLLAR, paid in hand to it by The County of Essex ("County"), the receipt of which is hereby acknowledged, the undersigned Surety (hereinafter the "Surety") consents and agrees that if the Contract for which the preceding estimate and proposal is made, is awarded to the Bidder by the County, the Surety will become bound as Surety and guarantor for the faithful performance of the Contract, and will execute the Contract as party of the third part when required to do so by the Superintendent of Public Works of the County, and, in addition, if the Bidder shall, upon award of the Contract to the Bidder, fail or refuse to execute the Contract, the Surety shall, on demand by the County pay to the County, the difference between the amount bid and the amount for which such contract is thereafter awarded, and, in addition, the cost to the County of reletting said contract.

The Surety, for value received, the receipt of which is hereby acknowledged by the Surety, hereby stipulates and agrees that the obligation of the Surety and of its bond shall be in no way impaired, affected or discharged by an extension of time, mutually agreed to by the County and the bidder, within which the County may award said contract, and the Surety hereby waives notice of any such extension.

IN WITNESS WHEREOF, the Surety has set its hand and seal and caused these presents to be signed by its duly authorized officers this_____day of 20_____.

Name of Surety_____
(Please affix seal)

By_____

Title_____

Note: Attach necessary Power of Attorney, Notarial Acknowledgment of Signature, and Surety's Financial Statement.

+REQUIREMENTS FOR THE PARTICIPATION OF DISADVANTAGED BUSINESS ENTERPRISES IN FEDERAL AID CONTRACTS

DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION. It is the policy of the United States and of the State of New York that Disadvantaged Business Enterprises (DBE's) shall have the maximum opportunity to participate in the performance of State contracts for construction. The parties to this contract shall take all necessary and reasonable steps in accordance with the laws, rules, and regulations cited in this section to ensure that DBEs have the maximum opportunity to compete for and perform contracts. The Owner and its Contractors shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of any federal Aid contracts. This policy shall be made a part of all subcontracts and agreements entered into as a result of this contract.

The Congress of the United States, to this end, has enacted the Surface Transportation Assistance Act ("STAA") of 1982, Public Law 97-424, Section 105(f), the Surface Transportation and Uniform Relocation Assistance Act of 1987, Public Law 100-17, Section 106(c), the Intermodal Surface Transportation Efficiency Act of 1991 and Regulations have been promulgated under CFR 49 23. New York State, to this end, has enacted Section 85 of the Highway Law, Section 428 of the Transportation Law, and Chapter 1, Title 17 of the Official Compilation of Codes, Rules, and Regulations. The parties to this contract are required to comply with these laws, rules, and regulations and the following DBE Program requirements.

A. ELIGIBILITY OF DBEs. Only those DBE firms that are certified by the New York State Department of Transportation (NYSDOT) are eligible to be used for goal attainment on this contract. DBE certification is not an endorsement of the quality or performance of the business but simply an acknowledgment of the firm's status as a DBE. In the event that the apparent Low Bidder, in good faith, proposes to use a firm that is listed as a certified DBE in the project proposal, and that firm is later found by the Owner to be ineligible or unable to perform, then the apparent Low Bidder will be required to substitute another certified firm of the kind needed to meet the goal, before the award, at no additional cost to the Owner.

B. GOAL. The Owner has established a utilization goal for DBEs which is expressed as a percentage of the total contract price. This goal is stated in the proposal and remains in effect throughout the life of the contract. In executing the contract or bid documents the Bidder declares that he/she subscribes to the utilization goal and must meet or exceed the goal or demonstrate that he/she could not meet it despite his/her best efforts. The contract goal is then considered to be a target or a minimum figure to which the Contractor commits as a part of his/her bidding for a Federal-aid project. When the contract is awarded with DBE participation that is less than the contract goal, the Prime Contractor is required to continue good faith efforts, as defined in Section F, throughout the life of the contract in order to increase the DBE participation to meet or exceed the contract goal.

C. ZERO PERCENT GOAL. For contracts which have a 0% (zero percent) goal, the Bidder agrees to make good faith efforts to utilize certified DBEs for any subcontracts awarded by the Bidder in connection with the contract.

D. COUNTING DBE PARTICIPATION TOWARDS DBE GOALS. DBE participation shall be counted toward meeting the DBE goal in accordance with the following:

1. Subcontracting. If a firm is determined to be an eligible DBE, as defined in Section A, the total DBE agreed amount of the items of work to be performed by the DBE is counted toward the applicable DBE goal except as provided in paragraphs 2, 3, and 4 below.

2. Joint Ventures. Joint ventures between certified DBE firms and non-DBE firms as subcontractors will be counted toward the DBE goal in proportion to the percentage of ownership and control of each firm within the joint venture, subject to approval by the Owner of the joint venture agreement to be furnished by the Bidder before award of the contract. The joint venture agreement must include a detailed breakdown of the following:

a. Contract responsibility of the DBE for specific contract items of work,
b. Capital participation by the DBE,
c. Specific equipment to be provided to the joint venture by the DBE,
d. Specific responsibilities of the DBE in the control of the joint venture,
e. Specific staffing and skills to be provided to the joint venture by the DBE, and
f. Percentage distribution to the DBE of the projected profit or loss incurred by the joint venture.

In addition to these requirements, the DBE joint venture must perform a commercially useful function as a DBE subcontractor as defined in Section E.

3. Supplies (Regular Dealers), Manufacturers, and Fabricators. Count toward the DBE goal the expenditures for materials and supplies obtained from DBE suppliers (regular dealers) and manufacturers in the amount noted below. The DBE supplier or manufacturer must assume the actual and contractual responsibility for the provision of the materials and supplies.

a. Count the entire expenditure to a DBE manufacturer. A manufacturer is a firm that operates or maintains a factory or establishment that produces on the premises the materials or supplies obtained by the Contractor.

b. Count the entire expenditure to a DBE fabricator. A fabricator is a firm that substantially alters materials or supplies before resale.

c. Count 60% (sixty percent) of the expenditures to a DBE supplier. A supplier is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business. It is a firm that engages in, as its principal business, and in its own name, the purchase and sale of the products in question. One who deals in bulk items such as steel, cement, gravel, stone, and petroleum products need not keep such product in stock, if it owns or operates distribution equipment.

d. The Bidder must indicate in the form of an explanation on the AAPHC-890, DBE Utilization Worksheet, the item number(s) for the material supplied.

EXAMPLE:

ITEM NUMBER	NAME	LESS THAN 100%	AMOUNT
619M17	Supply Temp. Concrete Barrier	XX%	$ Value

4. Trucking Services. Count toward the DBE goal the expenditure for trucking services provided by certified DBEs in accordance with the following:

a. Count the pro-rated value of trucking services provided by trucks owned or leased on a long-term basis by the DBE trucking firm. For the purposes of this Section, a long-term lease is a lease of six (6) months or more. Also, trucks that are leased on a long-term basis are leased without an operator.

b. Count the pro-rated value of trucking services provided by trucks hired or rented from other certified DBE trucking firms by the DBE trucking firm.

c. No credit will be received for the value of trucking services that are provided by trucks that are not owned, leased on a long-term basis, hired, or rented from certified DBE trucking firms.

EXAMPLE:

Ten (10) trucks are needed to perform $50,000 of trucking services. The DBE who appears on the Utilization form will provide two (2) self-owned trucks and three (3) trucks hired from DBE trucking firms for a total of five (5) certified DBE trucks providing trucking services. The remaining five (5) trucks are not obtained from certified DBE trucking firms. In this situation, 50% (fifty percent), or $25,000, can be counted toward the DBE goal.

d. The Bidder must indicate in the form of an explanation the item number(s) for which the trucking services are to be performed, the type of trucking service to be performed (on-site vs. off-site), and the corresponding dollar value for those services (per item).

EXAMPLE:

ITEM NO.	NAME	LESS THAN 100%	AMOUNT
99.99	Off-site Trucking Services for Item 403.11	XX%	$ VALUE

e. The Bidder must provide, before award, the calculations and any pertinent documentation that support the dollar value or the proposed DBE trucking services. The Bidder must also provide before award a list of all proposed DBE trucking firms to be used on the project and the number of trucks to be provided by each proposed DBE trucking firm.

f. On-Site Trucking. For the purposes of this Section, on-site trucking is defined as: 1. Within the boundaries of the physical place where the construction will remain; (2) Off-site facilities that are dedicated exclusively to the performance of the contract and are so located in proximity to the actual construction location that it would seem reasonable to include them. Trucking services provided for on-site trucking are considered to be a subcontracting activity. The DBE trucking firm may not subcontract any portion of their on-site trucking operations.

g. Off-Site Trucking. For the purposes of this Section, off-site trucking is defined as: 1.

Outside of the boundaries of the physical place where the construction will remain; (2) Off-site facilities that were established by a commercial supplier or materialman prior to award of the project and used for multiple customers. Trucking services provided for off-site trucking are not considered to be a subcontracting activity; it is considered to be a service.

h. The DBE trucking firm that appears on the Utilization form must control the day-to-day trucking operations on the project. The DBE is responsible for:

1. Negotiating and executing rental/leasing agreements;
2. Hiring and firing the work force;
3. Coordinating the daily trucking needs with the Prime Contractor;
4. Scheduling and dispatching trucks.

a. The Bidder must explain in writing the scope of work to be performed by the DBE for all items indicated as partial items at the time the Low Bidder submits the Utilization Package.

6. A DBE that holds a contract may not count its own utilization in the contract toward the DBE contract goal.

E. CONDITIONS OF PARTICIPATION. DBE participation will be counted toward meeting the DBE contract goal, subject to all of the following conditions:

1. Commercially Useful Function. The Prime Contractor is responsible for ensuring that DBEs performing work on the contract perform a commercially useful function. A DBE is considered to perform a commercially useful function when it is responsible for the execution of a distinct element of work on a contract and carries out his/her responsibilities by actually performing, managing, and supervising the work involved in accordance with normal industry practice (except where such practices are inconsistent with the DBE regulations). Regardless of whether an arrangement between the Contractor and the DBE represents standard industry practice, if the arrangement erodes the ownership, control, or independence of the DBE or in any way does not meet the commercially useful function requirement, the Contractor shall receive no credit toward the goal.

2. Work Force. The DBE firm must employ a work force (including administrative and clerical positions), separate and apart from that employed by the Prime Contractor, other subcontractors on the project, or their affiliates. This does not preclude the employment by the DBE of an individual that has been previously employed by another firm involved in the contract, provided that the individual was independently recruited by the DBE in accordance with customary industry practice. The routine transfer of work crews from another employer to the DBE shall not be allowed.

3. Supervision. All work performed by the DBE must be controlled and supervised by the DBE without duplication of supervisory personnel from the Prime Contractor or other subcontractors. This does not preclude routine communication between the supervisory personnel of the DBE and other supervisors necessary to coordinate the work of the contract.

4. Equipment. DBE subcontractors may supplement their equipment by renting or leasing additional equipment in accordance with customary industry practice. However, no more than 50% of the equipment required to perform the work of the subcontractor may be obtained from the Prime Contractor, other subcontractors on the project, or their affiliates.

If the DBE obtains equipment from any of those sources, the Owner shall obtain from the DBE documentation demonstrating that similar equipment and terms could not be obtained at a lower cost from other customary sources of equipment. The required documentation shall include, but not be limited to, copies of the rental or leasing agreements, and the names, addresses, and terms quoted by other sources of equipment.

F. GOOD FAITH EFFORTS. To ensure that DBE firms are given the maximum practical opportunity to participate in the work of the contract, the Bidder must make good faith efforts to obtain DBE participation in order to fulfill the DBE contract goal. The Bidder's demonstration of good faith efforts must be at least extensive as, but not limited to, the following:

1. Efforts to utilize the services of minority and women community organizations; minority and women contractors groups; local, State, and Federal minority and women business assistance offices; and other organizations that provide assistance in the recruitment and placement of DBEs.

2. Attendance by a representative of the Bidder who is knowledgeable of the contract work at pre-bid, pre-award, and/or other meetings, if any, scheduled by the Owner to inform DBEs of subcontracting and other opportunities for participation in a specific contract. At these meetings, the Bidder's representative will explain the required contract work and solicit the interest of the DBE attendees in any specific portions of the work.

3. Efforts to secure participation by certified DBE firms. Only DBEs certified by the NYSDOT shall be used to fulfill goals on federally funded projects.

4. Written solicitation of DBEs. A written solicitation inquiry will be sent to all DBE firms and, when necessary, minority and women's business associations when necessary in order to meet DBE goals. Notification must be made in a timely fashion such that the DBEs contacted have a reasonable period of time in which to respond. The Bidder's solicitation will cover certified DBEs listed in the Registry of Disadvantaged Business Enterprises maintained by the Office of Civil Rights (OCR) of the NYSDOT. Such geographic limits are not acceptable as good faith efforts for work typically subcontracted to non-DBE firms on a statewide basis, e. g., pavement markings, guide rail, etc. It will be mandatory for the Bidder to contact all DBEs who have expressed interest in the specific contract to the Bidder and to document efforts taken to secure their participation in the contract and in any future work.

5. Efforts to select portions of the work proposed to be performed by DBEs in order to increase the likelihood of achieving the contract goal. Where certified DBEs have expressed interest to the Bidder in performing certain work that the Bidder normally performs with his/her own forces, and the contract goal has not otherwise been attained, the Bidder will be required to subcontract such work or portions of it in order to meet the goal.

6. Efforts to negotiate with DBEs for specific subcontracts. Price alone will not be an acceptable basis for rejecting DBE bids, unless it can be shown that no reasonable price can be obtained from a DBE.

7. Efforts to assist the DBEs contacted which needed assistance in obtaining bonding or insurance required by the Bidder or the Owner. Difficulties encountered by the DBE in obtaining bonding or insurance required by the Bidder will not be acceptable reasons for the Bidder's failure to meet the contract goal.

8. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract.

9. Record of solicitation efforts. All Bidders must keep records of efforts to solicit and negotiate with DBEs and a continuing record of pre- and post-letting activity. When submitting a D/M/WBE Schedule of Utilization to the Owner, the apparent Low Bidder will attach it together with the supplemental information specified in the instructions as evidence of good faith efforts. Such supplemental efforts must include at least the following:

a. All Solicitation Responses returned to the Bidder by DBEs;

b. All envelopes of solicitation inquiries that were returned as undeliverable; and
c. Any quotations submitted by DBEs that are not included in the D/M/WBE Schedule of Utilization with an explanation for the Bidder's action in each case.

G. DBE UTILIZATION PACKAGE. The Bidder shall submit a complete utilization package within seven (7) calendar days after the bid opening. The DBE Utilization Package consists of:

1. D/M/WBE Schedule of Utilization;

2. D/M/WBE Utilization Worksheet (Note: Schedule must be co-signed by both the Prime Contractor and the Subcontractor); and

3. All of the information listed in Section F.

H. BIDDER'S FAILURE TO COMPLY. The Owner's acceptance of the Bidder's proposal is conditioned upon the Bidder's fulfillment of the requirements of this Section. If the Bidder fails to submit a complete utilization package as defined in Section G by the seventh calendar day after the bid opening and/or fails to attain the DBE utilization goal, and to satisfactorily document his/her good faith efforts as defined in Section F above, the bid may be declared incomplete and the deposit may be subject to forfeiture.

I. DISADVANTAGED BUSINESS ENTERPRISE OFFICER. The Bidder shall designate a Disadvantaged Business Enterprise Officer who will have the responsibility to, and be capable of, effectively administering and promoting an active DBE program, and, who is assigned adequate authority to do so.

J. CONFORMANCE TO DBE SCHEDULE OF UTILIZATION. Following the award of the contract, the Contractor is required to enter into subcontracts or agreements with the DBEs identified on the approved D/M/WBE Schedule of Utilization, for the work of the kind and amount identified therein. The Owner will monitor the work of the contract to ensure that the DBEs identified perform the work in accordance with the D/M/WBE Schedule of Utilization. Any direction by the Owner to comply with the Schedule is a lawful direction under Article 8 of the contract. Where such direction is not complied with, the Contractor shall not be entitled to have any estimate made for the purpose of payment, nor shall any estimate be rendered on account of work done or material furnished.

K. REVISIONS IN DBE UTILIZATION. If, after the award of the contract, a subcontract or

purchase order held by a DBE or joint venture involving a DBE is modified or terminated, the Contractor shall immediately notify the Owner of such modification or termination and the reasons therefor or an alternative subcontract or purchase order for a commensurate dollar amount furnished by another DBE. Any change in DBE utilization must be approved by the Owner through submission of a revised Schedule of Utilization (Amended) signed by both parties. The Contractor must receive this approval prior to implementing any proposed change. Failure by the Contractor to obtain approval could result in appropriate sanctions. For the purposes of this Section, a revision in DBE utilization is considered to be any of the following modifications:

A. Reducing the dollar value of or eliminating the DBE's item(s) of work. In the event that this results in a shortfall in goal attainment, the Contractor will be required to make good faith efforts to backfill in accordance with Section F.

B. Removing one DBE and substituting another DBE for the same item(s) of work.

C. Increasing the dollar value of (an) item(s) of work or adding (a) new item(s) of work to a DBE already participating in the contract.

D. Adding a DBE to the contract.

L. MONITORING CONTRACTOR COMPLIANCE. The Contractor will allow authorized representatives of the Owner to conduct periodic inspections of the Contractor's DBE participation efforts during the performance of the contract. In order to determine whether the Contractor has complied with the requirements of this Section, the Owner may proceed by order to show cause, or may follow any other lawful procedure upon due notice in writing to the Contractor. When the Contractor has been found to have failed to meet the contract goals, to exert a good faith effort, or otherwise failed to comply with this Section, the contract may be canceled, terminated, or suspended in whole or in part in accordance with the contract and Section 40 of the Highway Law, and the Contractor may be referred to the USDOT for possible suspension or debarment as provided for in 49 CFR 29 and such other sanctions as may be imposed and remedies invoked as provided for under the authority of 49 CFR 29, or by rule, regulation, or order of the Owner, or as otherwise provided by law.

M. PROMPT PAYMENT. Failure by the Contractor to pay any subcontractor within seven calendar days of receipt of payment from the Owner for work performed that is accepted by the Owner, in violation of Section 139-F of the State Finance Law, could result in the withholding of future estimated payments by the Owner. The Contractor shall submit reports on payments made to subcontractors as required by the Owner. If it is determined by the Owner that a subcontractor has not received payment due and owing in accordance with Section 139-f of the State Finance Law, the Owner may direct the Prime Contractor to make such payment. Any such direction by the Owner is a lawful direction under Article 8 of the contract. Where such direction is not complied with, the Contractor shall not be entitled to have any estimate made for the purpose of payment nor shall any estimate be rendered on account of work done.

N. REQUIRED RECORDS. The Contractor shall keep records and documents for three years following performance of this contract to indicate compliance with this Section. These records and documents, or copies thereof, will be made available at reasonable times and places for inspection by any authorized representatives of the Owner and will be submitted to

the Owner upon request, together with other compliance information which may be required.

O. NON-DISCRIMINATION. The Contractor shall not use the requirements of this Section to discriminate against any qualified company or group of companies.

P. REPORTING VIOLATIONS OF PROGRAM RULES. The Contractor is responsible for ensuring that the DBE performs a commercially useful function on the contract as defined in Section E. If the Contractor becomes aware of any violation of this Section, the Contractor is required to promptly report the violation to the Owner.

Sample

FEDERAL AID PROJECT

DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION GOALS

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

DISADVANTAGED BUSINESS ENTERPRISE

UTILIZATION REQUIREMENTS

The Department has established the following Disadvantaged Business Enterprise (DBE) utilization goals for this contract. The goal is expressed as a percentage of the total bid price.

Disadvantaged Business Enterprise Utilization Goal __9___%

Information related to the current certification status of Disadvantaged Business Enterprises, can be obtained by contacting the:

NYS Department of Transportation
Office of Civil Rights
50 Wolf Road
POD 6-2
Albany, NY 12232
(518) 457-1128 or 457-1129

Disadvantaged Business Enterprise Officer

The Bidder shall designate and enter below the name of a Disadvantaged Business Enterprise Officer who will have the responsibility for and must be capable of effectively administering and promoting an active Disadvantaged Business Enterprise Program and who must be assigned adequate authority and responsibility to do so.

Bidder Designated DBE Officer _____
(Name, Title)
Telephone Number _____

RETURN THIS PAGE WITH BID

1 OF 1

REQUIRED IN ALL CONTRACTS OF $ 500,000 OR MORE. The DBE program is similar to, but different from, local or state programs which call for the participation of MBE's and WBE's. On Federal Aid projects, all participation shall be geared toward DBE's. The Office of Civil Rights (OCR) is responsible for certifying DBE firms in New York State. Local requirements for MBE/WBE participation shall be omitted from Federal Aid contracts.

IF NYSDOT SPECIFICATIONS ARE USED, THIS SECTION IS REFERENCED IN SECTION 102-12 AND DOES NOT HAVE TO BE CONTAINED IN THE BID PROPOSAL. IF THE PROJECT IS VALUED AT $ 500,000 OR MORE, THE GOAL PAGE, WITH A PERCENTAGE GOAL STATED, MUST BE PUBLISHED IN THE BID PROPOSAL.

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EQUAL OPPORTUNITY REQUIREMENTS FOR FEDERAL AID CONTRACTS

GENERAL. Title 23 USC Section 140(a) requires the Secretary of Transportation to ensure non-discrimination in employment generated by Federally-aided construction by the inclusion of Equal Employment Opportunity provisions in the contract specifications. Those provisions are found in the Required Contract Provisions for Federal-Aid Construction Contracts (FHWA 1273), which is incorporated into this proposal. Those provisions require the Contractor to comply with 41 CFR 60, the applicable portions of which are included in this contract. The New York State Department of Transportation is required to enforce those provisions on its Federally-aided construction contracts by 23 CFR, Part 230, Subparts A and D. Such enforcement shall include efforts on the part of the Department of Transportation to ensure that these provisions are included in, and enforced as part of, all contracts let by other agencies, including municipal subdivisions of the State, which are funded with Federal monies administered by or through the Department of Transportation. Such enforcement includes, but is not limited to, monitoring the Contractor's and Subcontractor's employment practices, requiring employment related reports to be filed by the Contractor in a timely manner on forms acceptable to the Sponsor and the Department, determining the Contractor's compliance with these provisions and taking such actions as authorized by law, rule, or regulation to enforce compliance by the Contractor. In the enforcement of those rules by the Department, the term Director means the Director of the Department's Office of Civil Rights.

Included in this contract are sections of 41 CFR 60 as required by regulation of the Office of Federal Contract Compliance Programs, and the US Department of Labor. The enforcement of those provisions is also the responsibility of the Office of Federal Contract Compliance Programs, separate and independent of the Department's enforcement responsibility.

TRAINING SPECIAL PROVISION. If this contract proposal includes the Training Special Provisions, the Contractor is required to comply with that provision as part of the Equal Employment Opportunity Requirements. The Training Special Provisions requires the Contractor to provide training to at least one minority or woman indentured apprentice or trainee. If the Contractor fails to meet the employment goals for minorities or women specified in these requirements, additional training of minorities and women will be required to satisfy the employment goals. No payment will be made for the training required of the Contractor under the Training Special Provision.

EQUAL EMPLOYMENT OPPORTUNITY OFFICER. The Contractor will designate and make known to the Sponsor and the Department an Equal Employment Opportunity Officer (EEO Officer) who will have the responsibility for, and must be capable of effectively administering and promoting, an active contractor program of Equal Employment Opportunity and who must be assigned adequate authority and responsibility to do so.

COMPLAINTS OF ALLEGED DISCRIMINATION. The Contractor will promptly investigate all complaints of alleged discrimination made to the Contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the Contractor will inform every complainant of all of his or her avenues of appeal.

ASSURANCE OF NON-DISCRIMINATION. The Sponsor, in accordance with Title VI of the Civil Rights Act of 1964, 78 Statute 252, 42 USC 2000d to 2000d-4, and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Non-Discrimination in Federally-Assisted Programs of the Department of Transportation issued pursuant to such Act, hereby notifies all Bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, or national origin in consideration for award.

"Code of Federal Regulations"

Title 41 - Public Contracts, Property Management

Chapter 60 - Office of Federal Contract Compliance Programs

PART 60-1, OBLIGATIONS OF CONTRACTORS AND SUBCONTRACTORS

Subpart A, Preliminary Matters; Equal Opportunity Clause; Compliance Reports

Sec. 60-1.1 Equal opportunity clause.

During the performance of this contract, the Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
3. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Contractor's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part, and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided for in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
7. The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraph (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor pursuant to Section

204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance: Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

PART 60-4, CONSTRUCTION CONTRACTORS, AFFIRMATIVE ACTION REQUIREMENTS

Sec. 60-4.2, Solicitations

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

(1) The Offerer's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.

(2) The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as set forth in the solicitations from which this contract resulted.

These goals are applicable to all the Contractor's construction work (whether or not it is federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor is also subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women on each of its projects. The transfer of minorities or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

(3) The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the Subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

(4) As used in this Notice, and in the contract resulting form this solicitation, the "covered

area" is the county where the contract is to be performed.

Sec. 60-4.3, Equal Opportunity Clauses

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

5. As used in these specifications:

a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;

b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;

c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U. S. Treasury Department Form 941.

d. "Minority" includes:

(i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);

(ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish Culture or origin, regardless of race);

(iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and

(iv) American Indian or Alaskan native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of $10,000.00 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U. S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or

Subcontractor's failure to make good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7(a) through (d) of these specifications. The goals set forth in the solicitations from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a federal or federally assisted construction contract shall apply the minority and female goals established for the geographic area where the work is being performed. Goals are published periodically in the FEDERAL REGISTER in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U. S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its efforts to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source, or community organization, and of what action was taken with respect to each such

individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union, or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7(b) above.

f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with on-site supervisory personnel such as superintendents, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

I. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students, and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment sources, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after-school, summer, and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments, and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are non-segregated except that separate or single user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers of subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7 (a) through (p)). The efforts of a contractor association, joint contractor union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under sections 7(a) through 7(p) of these specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's, and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's non-compliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goal for women generally, the Contractor may be in violation of the Executive Order if a specific group of minority women is underutilized).

10. The Contractor shall not use the goals and timetables of affirmative action standards to discriminate against any person because of race, color, religion, or national origin.

11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, an its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligation under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.3.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government, and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation, if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainer, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and location at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

Sec. 60-4.5, Hometown plans.

a. A contractor participating, either individually or through an association, in an approved Hometown Plan (including heavy highway affirmative action plans) shall comply with its affirmative action obligations under Executive Order 11246 by complying with its obligations under the Plan: Provided, that each contractor or subcontractor participating in an approved plan is individually required to comply with the equal opportunity clause set forth in 41 CFR 60-1.4; to make a good faith effort to achieve the goals for each trade participating in the plan in which it has employees; and that the overall good performance by other contractors or subcontractors toward a goal in an approved plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the plan's goals and timetables. If a contractor is not participating in an approved Hometown Plan it shall comply with the specifications set forth in ' 60-4.3 of this part, and with the goals and timetables for the appropriate area as listed in the notice required by 41 CFR 60-4.2 with regard to that trade. For the purposes of this part 60-4, a Contractor is not participating in a Hometown Plan for a particular trade if it:

1. Ceases to be signatory to a Hometown Plan covering that trade;
2. Is signatory to a Hometown Plan for that trade but is not party to a collective bargaining

agreement for that trade;
3. Is signatory to a Hometown Plan for that trade but is party to a collective bargaining agreement with labor organizations which are not or cease to be signatories to the same Hometown Plan for that trade;
4. Is signatory to a Hometown Plan for that trade and is party to a collective bargaining agreement with a labor organization for that trade but the two have not jointly executed a specific commitment to minority and female goals and timetables and incorporated the commitment in the Hometown Plan for that trade;
5. Is participating in a Hometown Plan for that trade which is no longer acceptable to the Office of Federal Contract Compliance Programs;
6. Is signatory to a Hometown Plan for that trade but is party to a collective bargaining agreement with a labor organization for that trade and the labor organization and the contractor have failed to make a good faith effort to comply with their obligations under the Hometown Plan for that trade.

b. Contractors participating in Hometown Plans must be able to demonstrate their participation and document their compliance with the provisions of the Hometown Plan.

Sec. 60-4.6, Goals and timetables

The Director, from time to time, shall issue goals and timetables for minority and female utilization which shall be based on appropriate workforce, demographic, or other relevant data and which shall cover construction projects or construction contracts performed in specific geographical areas. The goals, which shall be applicable to each construction trade in a covered contractor's or subcontractor's entire workforce which is working in the area covered by the goals and timetables, shall be published as notices in the FEDERAL REGISTER, and shall be inserted by the contracting officers and applicants, as applicable, in the Notice required by 41 CFR 60-4.2. Covered construction contractors performing construction work in geographical areas where they do not have a federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where work is being performed.

Sec. 60-4.8, Show cause notice

If an investigation or compliance review reveals that a construction contractor or subcontractor has violated the Executive Order, and contract clause, specification, or the regulations in this chapter, and if administrative enforcement is contemplated, the Director shall issue to the Contractor or Subcontractor a notice to show cause which shall contain the items specified in paragraphs (I) through (iv) of 41 CFR 60-2.2(c)(1). If the Contractor does not show good cause within 30 days, or in the alternative, fails to enter an acceptable conciliation agreement which includes, where appropriate, make up goals and timetables, back pay, and seniority relief for affected class members, the OFCCP shall follow the procedure in 41 CFR 60-1.26(b): Provided, that where a conciliation agreement has been violated, no show cause notice is required prior to the initiation of the enforcement proceedings.
Sec. 60-4.9, Incorporation by operation of the order.

By operation of the order, the equal opportunity clause contained in Sec. 60-1.4, the Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246) contained in Sec. 60-4.2 and the Standard Federal Equal Employment Opportunity

Construction Contract Specifications (Executive Order 11246) contained in Sec. 60-4.3 shall be deemed to be a part of every solicitation or of every contract and subcontract, as appropriate, required by the order and the regulations in this chapter to include such clauses whether or not they are physically incorporated in such solicitation or contract and whether or not the contract is written.

GOALS FOR MINORITY PARTICIPATION IN THE CONSTRUCTION INDUSTRY

COUNTY	% GOAL	COUNTY	% GOAL	COUNTY	% GOAL
Albany	3.2	Herkimer	2.1	Richmond	*
Allegany	6.3	Jefferson	2.5	Rockland	22.6
Broome	1.1	Kings	*	St. Lawrence	2.5
Bronx	*	Lewis	2.5	Saratoga	3.2
Cattaraugus	6.3	Livingston	5.3	Schenectady	3.2
Cayuga	2.5	Madison	3.8	Schoharie	2.6
Chautauqua	6.3	Monroe	5.3	Schuyler	1.2
Chemung	2.2	Montgomery	3.2	Seneca	5.9
Chenango	1.2	Nassau	5.8	Steuben	1.2
Clinton	2.6	New York	*	Suffolk	5.8
Columbia	2.6	Niagara	7.7	Sullivan	17.0
Cortland	2.5	Oneida	2.1	Tioga	1.1
Delaware	1.2	Onondaga	3.8	Tompkins	1.2
Dutchess	6.4	Ontario	5.3	Ulster	17.0
Erie	7.7	Orange	17.0	Warren	2.6
Essex	2.6	Orleans	5.3	Washington	2.6
Franklin	2.5	Oswego	3.8	Wayne	5.3
Fulton	2.6	Otsego	1.2	Westchester	22.6
Genesee	5.9	Putnam	22.6	Wyoming	6.3
Greene	2.6	Queens	*	Yates	5.9
Hamilton	2.6	Rensselaer	3.2		

*** The following goal ranges are applicable to the indicated trades in the Counties of Bronx, Kings, New York, Queens, and Richmond:**

Electricians.....9.0 to 10.2
Carpenters.....27.6 to 32.0
Steam Filters.....2.2 to 13.5
Metal Lathers.....26.0 to 28.6
Operating Engineers.....25.6 to 26.0
Plumbers.....12.0 to 14.5
Iron Workers (Structural)..... 25.9 to 32.0
Elevator Constructors..... 5.5 to 6.5
Bricklayers.....13.4 to 15.5
Asbestos Workers.....22.8 to 28.0
Roofers.....6.3 to 7.5
Iron Workers (Ornamental).....22.4 to 23.0
Cement Masons..... 23.0 to 27.0
Glaziers.....16.0 to 20.0
Plasterers.....15.8 to 18.0
Teamsters.....22.0 to 22.5
Boilermakers.....13.0 to 15.5
All Others.....16.4 to 17.5

GOALS FOR WOMEN

Female Goals - 6.9%

Goals for the utilization of women by Federal and Federally assisted construction contractors were last published on April 7, 1978 (43 CFR 4988, 149000). That April 7, 1978 publication included a 6.9% goal for the period from April 1, 1980 until March 31, 1981. Pursuant to 41 CFR 60-4.6, the 6.9% goal for female utilization is extended until further notice

THESE MUST BE INCLUDED IN EACH BID PROPOSAL REGARDLESS OF WHOSE SPECIFICATIONS ARE USED.

SECTION 00499
BID BOND

ATTACHED HERE – CERTIFIED CHECK, CASH OR BID BOND

END OF SECTION

00242

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SECTION 00570
AGREEMENT

This CONTRACT, in six (6) copies and entered into this _____ day of _____, 20___, by and between the County of Essex, a municipal corporation, organized and existing under the laws of the State of New York, with its principal office and place of business located at 8053 US Route 9, Elizabethtown, New York 12932, hereinafter designated as "Owner", Party of the First Part,

and_____

_____

_____ of _____

County of_____ State of _____

hereinafter designated as the Contractor, Party of the Second Part.

WITNESSETH: That the parties hereto, each in consideration of the Agreements on the part of the other herein contained, have mutually agreed, and hereby mutually agree, the Party of the First Part for itself and its successors, and the Party of the Second Part for itself, himself or themselves and its successors, his or their executors, administrators and assigns as follows:

Article 1. DESCRIPTION. Under this Agreement and Contract, the Contractor shall furnish all materials and perform all work required to furnish and install complete Project Titled Reconstruction/Rehabilitation of Old Military Road (CR 35) – Phase I; PIN 1754.96.

Article 2. In consideration of the payments to be made as hereinafter provided, and of the performance by the Owner of all matters and things to be performed by the Owner as hereinafter provided, the Contractor agrees, at his own sole cost and expense to perform all the labor and services, and to furnish all the labor and materials, plant and equipment necessary to complete, and to complete in good, substantial, workmanlike and approved manner, the work described under Article 1 hereof, within the time hereinafter specified and in accordance with the terms, conditions and provisions of this Contract and with the instructions, order and directions of the Engineer made in accordance with this Contract,

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SECTION 00570
AGREEMENT

Article 3, The Owner agrees to pay and the Contractor agrees to accept, as full compensation for all work done and materials furnished, and also for all costs and expense incurred, and loss or damages sustained by reason of the action of the elements or growing out of the nature of the work, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of every description connected with the work, and for all expenses incurred by, or in consequence of, the suspension or discontinuance of the work as herein specified, and for well and faithfully completing the work, and the whole thereof, as herein provided, and for maintaining the work in good condition until the final payment is made, the prices stipulated in the proposal hereto attached.

Article 4. CONTRACT DOCUMENTS. The following Documents shall constitute integral parts of the Agreement, the whole to be collectively known and referred to as the Contract: Advertisement For Bids, Information for Bidders, Wage Rates, Additional Instructions, Bid Documents, Agreement, Performance Bond, Labor & Materials Payment Bond, Insurance Certificates, General Conditions, General Requirements, Specifications, Contract Drawings, and all interpretations of, or addenda to the CONTRACT DOCUMENTS issued by the Owner or the Engineer with the approval of the Owner.

The Table of Contents, Indices, Headings, Titles contained herein and in said documents are solely to facilitate reference to various provisions of the Contract Documents and in no way affect, limit or cast light on the interpretations of the provisions to which they refer.

Article 5. Contractor agrees to comply with all requirements of the Contract Documents and with all provisions of law and implementing regulations. If the Contractor shall fail to comply with any of the terms, conditions, provisions, or stipulations of this Contract, then the Owner may make use of any or all remedies at law or in equity, or as provided in the Contract and shall have the right and power to proceed in accordance with the provisions thereof.

Article 6. The following alterations and addenda have been made and included in this Contract before it was signed by the parties hereto:

_____

_____

_____

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SECTION 00570
AGREEMENT

Article 7. This agreement shall be construed and enforced in accordance with the laws of the State of New York.

Article 8. The Contractor agrees;;

(a) He hereby voluntarily and irrevocably submits himself to the jurisdiction and venue of any court of competent jurisdiction over the subject matter of this Contract located within the State of New York in which any litigation is brought based on or arising out of this Contract.

(b) Any litigation brought by the Contractor based on or arising out of this Contract shall be brought only in the Supreme Court of the State of New York within the County in which the Owner is located.

(c) Any legal process or notice connected with any litigation may be served on the Contractor by United States registered mail, postage prepaid, addressed to the Contractor at his address stated in this Contract or at the Address stated in this Contract for the furnishing of notices to the Contractor or at the Contractor's last known address, and that service in such manner shall constitute good and valid service of process upon the Contractor.

(d) The Contractor hereby waives any defense which might be available to it in any such litigation based on or alleging lack of jurisdiction or venue, or, if process is served in the manner provided in Subparagraph (c) immediately above, invalid service of process, and that he will duly enter his appearance in any such action.

(e) This Contract maybe presented in court as conclusive evidence of the foregoing agreement.

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SECTION 00570
AGREEMENT

IN WITNESS WHEREOF, the parties to this Agreement have hereunto set their hands and seals and have executed this Agreement in six (6) copies the day and year first above written.

_____(OWNER)

By: _____

(Seal)

CONTRACTOR

_____

(Seal) By: _____

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SECTION 00570
AGREEMENT

(ACKNOWLEDGMENT OF OFFICER OF OWNER ATTESTING CONTRACT)

State of _____)
) SS:
County of _____)

On this _____ day of _____, 20_____, before me personally came and appeared

_____ to me known, who, being by me

duly sworn, did depose and say that he is the _____

of the _____described in and which executed the foregoing instrument; that he knows the seal of said Owner; that one of the impressions appearing on said instrument is a true and correct impression of such seal; and that he affixed it thereto and attested the same over his signature by virtue of the authority in him vested.

(ACKNOWLEDGMENT OF CONTRACTOR, IF A CORPORATION)

State of _____)
) SS:
County of _____)

On this _____ day of _____, 20_____, before me personally came and appeared

_____ to me known, who, being by me

duly sworn, did depose and say that he resides at _____;

that he is the _____

of _____, the corporation described in and which executed the foregoing instrument; that he knows the seal of said Corporation; that one of the seals affixed to said instrument is such seal; that it was so affixed by order of the directors of said corporation, and that he signed his name thereto by like order.

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SECTION 00570
AGREEMENT

(ACKNOWLEDGMENT OF CONTRACTOR, IF A PARTNERSHIP)

State of _____)
) SS:
County of _____)

On this _____ day of _____, 20_____, before me personally came and appeared

_____ to me known and known to me to

be one of the members of the firm of _____
described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same as and for the act and deed of said firm.

_____

(ACKNOWLEDGMENT OF CONTRACTOR, IF AN INDIVIDUAL)

State of _____)
) SS:
County of _____)

On this _____ day of _____, 20_____, before me personally came and appeared

_____ to me known and known to me to
be one of the person described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same.

_____

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SECTION 00570
AGREEMENT

(ACKNOWLEDGMENT OF CONTRACTOR, IF A LIMITED LIABILITY COMPANY)

State of _____)
) SS:
County of _____)

On this _____ day of _____, 20_____, before me personally came and appeared

_____ to me known, who being by me dully swown, did dispose and say that he resides at _____

_____; that he is the _____

of _____, the limited liability company described in and which executed the foregoing instrument; that he knows the seal of said limited liability company; that one of the seals affixed to said instrument is such seal; that is was so affixed by order of ht managing members of said limited liability company, and that he signed his name thereto by like order.

_____

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SECTION 00570
AGREEMENT

(Certification of Owner's Attorney)

I, the undersigned, the duly authorized and acting legal representative of _____

_____ do hereby certify as follows:

I have examined the foregoing Contract and surety bonds and the manner of execution thereof: and I am of the opinion that each of the aforesaid agreements has been duly executed by the proper parties thereto acting through their duly authorized representatives; that said representatives have full power and authority to execute said agreements on behalf of the respective parties named thereon: and that the foregoing agreements constitute valid and legally binding obligations upon the parties executing the same in accordance with the terms, conditions and provisions thereof.

By: _____
Owner's Attorney

_____
(Date)

END OF SECTION

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SECTION 00620
LABOR AND MATERIALS PAYMENT BOND

(ATTACH LABOR & MATERIALS PAYMENT BOND HERE)

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SECTION 00650
CERTIFICATE OF INSURANCE

(ATTACH INSURANCE CERTIFICATES HERE)

00262

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GENERAL CONDITIONS

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SECTION 00810

DEFINITIONS OF WORDS AND TERMINOLOGY

DEFINITIONS OF WORDS AND TERMS

Wherever the following words or corresponding pronouns are used in this Contract, they shall have the meaning given herein:

CONTRACT OR CONTRACT DOCUMENTS: each of the various documents referred to the Agreement, both severally and as a whole, including all additions, deletions, modifications and interpretations incorporated therein or appended thereto by or with approval of the Owner prior to the execution of the Contract.

OWNER: the party of the first part to this Contract, or any duly authorized agents or officers empowered to act therefor.

CONTRACTOR: the party of the second part to this Contract or the legal representatives or agents appointed by said party for the performance of the work.

ENGINEER: the firm of Foit-Albert Associates, Architecture, Engineering and Surveying, PC, engaged by the Owner to provide engineering services in connection with the work of this Contract, or its representatives duly authorized in writing to act therefor.

SURETY: the person, persons, firm or corporation who executed the Contractor' Performance Bond and Labor and Materials Payment Bond.

SUBCONTRACTOR: any person, other than employee of the contractor, or any firm or corporation who contracts to act for or in behalf of the Contractor in performing any part of the work in connection with the Contract, exclusive of one who furnishes only materials or equipment.

PROJECT: the entire facility or improvement to which the Contract relates.

SITE: the area or areas bounded by the property lines shown on the Plans, and other areas that may be similarly designated.

THE WORK: all labor, equipment and materials required, either expressly or by implication, to be furnished by the Contractor under this Contract or in connection with Change Orders or Supplemental Agreements thereto.

SUPPLEMENTAL AGREEMENT: an alteration or modification of the Contract Documents, made after execution of the Contract and agreed to in writing by the Contractor and the Owner.

DEFINITIONS OF WORDS AND TERMS - Continued

ORDER-ON-CONTRACT: a written order from the Owner to the Contractor directing an alteration or modification of the nature, scope or type of the work.

BOND OR PERFORMANCE BOND: the guarantee signed by the Surety, that the Contractor will complete all the work as required by the Contract.

LABOR AND MATERIALS PAYMENT BOND: the guarantee, signed by the Surety, that the Contractor will pay for all Labor and Material required by the Contract.

SECTION 00810

DEFINITIONS OF WORDS AND TERMINOLOGY

SPECIFICATIONS: also referred to as **DETAIL SPECIFICATIONS** or **TECHNICAL SPECIFICATIONS.** The written directions, requirements, descriptions of materials, equipment, construction systems, standards and workmanship as applied to the work and specifically including Division 1 – Division 16 of the Contract Documents.

PLANS, DRAWINGS OR CONTRACT DRAWINGS: only those drawings listed as such in the Contract Documents with all Addenda thereto.

SHOP DRAWINGS, SETTING DRAWINGS, WORKING DRAWINGS, CONSTRUCTION DRAWINGS: drawings prepared, or caused to be prepared, by the Contractor, Subcontractors, or by their equipment or material supplies in their behalf, including standard or stock equipment drawings, necessary to the performance of the work in addition to the Contract Drawings, or as may be required by the Engineer to be submitted for review.

ADDITIONAL DRAWINGS, SUPPLEMENTARY DRAWINGS: drawings, in addition to the Contract Drawings, which may be prepared and issued by the Engineer as part of the instructions to or requests of the Contractor in connection with the work of the Contract or appertaining to changes in the work.

ADDENDUM, ADDENDA: additional Contract provisions, deletions or changes issued by the Owner prior to the receipt of bids.

WRITTEN NOTICE: all written and authoritatively signed communications required in the normal conduct of the work or required to obtain compliance with the Contract provisions or preserve the rights of any party to the Contract. Written notice shall be considered as served when either delivered in person or deposited in a post-paid wrapper in a regularly maintained U.S. Mailbox and addressed to the person, firm or corporation intended to receive such notice, or to his appropriate agent, to the last business address of such known to the server. If mailed, the period of notice shall run from the time of the postal cancellation. It shall be incumbent upon each party to the Contract, and the Engineer, to advise the other parties to the Contract, and the Engineer, of any change in his business address until completion of the Contract and the expiration of all guarantee periods connected therewith.

DIRECTED, ORDERED, REQUIRED, DESIGNATED, PERMITTED, GRANTED, INSTRUCTED, CONSIDERED NECESSARY, APPROVED, SATISFACTORY, ACCEPTABLE: words referring to action or satisfaction of the Engineer, unless another meaning is specifically stated. The same shall apply to words of like import.

AS SHOWN, AS SHOWN ON THE PLANS: words referring to lines, numbers, or statements, or combinations thereof, on the Contract Drawings, unless another meaning is specifically stated.

ELEVATION: or any abbreviation of the "elevation", followed by figures, shall refer to the distance in feet above the datum established by the Engineer for the Project.

ACT OF GOD: an earthquake, flood, excessive wind or other unusual natural occurrence. Rain, snow, wind, flood, lightning or other natural phenomenon of normal intensity for the locality shall not be included in the meaning of the term.

DEFINITIONS OF WORDS AND TERMINOLOGY

APPROVED EQUAL, EQUAL: in the Contract Documents or Contract Drawings wherever brand names are specified and followed by the phase "or approved equal", this phrase shall be modified to read "or equal".

00810.02 REFERENCES TO OTHER SPECIFICATIONS AND CODES

REFERENCES TO OTHER SPECIFICATIONS AND CODES

References in these Specifications to published specifications and codes of private and governmental technical societies and agencies shall mean the latest specification for the item or operation involved. Abbreviations of these organizations used in these Specifications may include the following:

AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
ACPA	American Concrete Pipe Association
AGA	American Gas Association
AGCA	Associated General Contractors of America
AGMA	American Gear Manufacturers Association
AISC	American Institute of Steel Construction
AMCA	American Mechanical Contractors Association
ANSI	American National Standards Institute
APWA	American Public Works Association
ARI	American Refrigeration Institute
ASA	American Standards Association
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigeration & Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWPA	American Wood Preservers Association
AWS	American Welding Society
AWWA	American Water Works Association
CEMA	Conveyors Equipment Manufacturers Association
CIPRA	Cast-Iron Pipe Research Association
FM	Factory Mutual System
HEI	Heat Exchange Institute
HI	Hydraulics Institute
IEEE	Institute of Electrical and Electronics Engineers
IPCEA	Insulated Powers Cable Electric Association
NAFM	National Association of Fan Manufacturers
NBC	National Building Code
NBFPU	National Board of Fire Protection Underwriters
NBCA	National Bituminous Concrete Association
NCPI	National Clay Pipe Institute
NEC	National Electrical Code
NELA	National Electrical Lamp Association

SECTION 00810

DEFINITIONS OF WORDS AND TERMINOLOGY

00810.02 REFERENCES TO OTHER SPECIFICATIONS AND CODES - Continued

NEMA	National Electrical Manufacturers Association
NETA	National Electrical Testing Association
NFPA	National Fire Protection Association
NSWMA	National Solid Wastes Management Association
NYSDOT	New York State Department of Transportation, Standard Specifications (Construction and Materials)
NYSECC	New York State Energy Conservation Code
OSHA	Occupational, Safety and Health Act
PCA	Portland Cement Association
SAE	Society of Automotive Engineers
SMACNA	Sheet Metal & Air Conditioning Contractors National Association
SSPC	Steel Structures Painting Council
UL	Underwriters Laboratories, Inc.
USEPA	United States Environmental Protection Agency

END OF SECTION

SECTION 00820

DEFINITIONS OF WORDS AND TERMINOLOGY

00820.01 INTENT OF PLANS AND SPECIFICATIONS

The intent of the Plans, Specifications and other Contract Documents is to provide for the work outlined and delineated therein, complete in every detail for the purpose designated. The Contractor agrees to furnish everything necessary for the work as intended, any omission in the Plans or Specifications notwithstanding.

The Contractor shall furnish all materials, tools, plant equipment and labor, except those specifically set forth herein as to be furnished by the Owner, required to construct and place in complete and satisfactory working order the work contemplated by the Contract Documents. The mention in any part of the Specifications of any specific liability, duty or responsibility of the Contractor will not be construed as a restriction, limitation or waiver of any general liability, duty or responsibility of the Contractor, such mention being merely for explanatory purposes. The Contractor shall be solely responsible for the adequacy of his plant, tools and equipment, approval of the Engineer notwithstanding.

The Contractor shall do the work in a manner judged to best promote rapid construction consistent with due regard for the safety of life and the preservation of property, the satisfaction of the Engineer, and the intent of the Contract Documents.

The Contractor shall:

a) make all necessary excavations or embankments
b) do all clearing and grubbing
c) place all sheeting, shoring, bracing and supports
d) furnish all underdrains
e) provide draining, pumping bailing, ditching and diking for surface or below ground water
f) provide all things necessary to protect, support and maintain structures, utilities, drains, conduits, culverts, trees, fences, poles, walls, earth banks, shrubbery, sidewalks, railways, roadways and drives
g) repair all damage done to items in (f) above
h) do all fencing, lighting and watching
i) drive all piles and construct all foundations
j) construct all concrete, brick, stone, tile and timber work
k) place all iron and steel work and reinforcement
l) lay all water pipes, sewers, drains and conduits and make all connections to or between such
m) resurface and repave all streets, sidewalks, roads or drives open cut or damaged
n) refill all trenches and excavations
o) provide all fences, bridges, fills, detours and signs for maintenance of travel in public ways

SECTION 00820

DEFINITIONS OF WORDS AND TERMINOLOGY

00820.01 INTENT OF PLANS AND SPECIFICATIONS - Continued

p) make all connections to or between existing structures and utilities
q) construct all buildings and structures
r) furnish and install equipment
s) clean up and dispose of all rubbish and surplus materials

00820.02 INTERPRETATION OF PLANS & SPECIFICATIONS

The Engineer shall interpret the Plans and Specifications, and any Order-On-Contract or Supplemental Agreements. Anything shown on the plans but not included in the Specifications, or mentioned in the Specifications but not shown on the Plans, shall have the same effect as if set forth in both. In the event of a conflict between the Plans and Specifications, the Specifications shall govern.

00820.03 CONTRACT DRAWINGS

The location, nature and many details of the work are shown on the Contract Drawings. The work shall be constructed as shown on these Plans and such other drawings as may be issued during the life of the Contract by the Engineer, or furnished by the Contractor and approved by the Engineer.

The purpose of the Contract Drawings together with other Contract Documents, is to provide Bidders with sufficient information to prepare adequate and equitable Bids and to provide an adequate and equitable basis for the Agreement. The Contract Drawings may or may not provide sufficient detail for the actual construction of all segments of the work as shown and specified. The Contractor shall furnish Construction Drawings or other drawings, as specified or requested, or, as may be required to adequately delineate for his workmen all details necessary for the work.

The Contract Drawings were prepared on 11"x17" prints. Full-size prints may have been prepared for the convenience of Bidders and others. During construction, the Contractor shall obtain data and information from the 11"x17" prints in preference to full-size prints.

Unless otherwise stated in the Information For Bidders, the Contractor will be furnished, free of charge, three copies of the Contract Documents, including three sets of Contract Drawings. Any other copies of the Contract Documents which the Contractor may desire can be obtained by him from the Engineer at the cost of duplication thereof.

The Contractor shall keep at least one set of Specifications and one set of Plans on the Site, and shall at all times give the Engineer and the Owner access thereto.

The engineer may prepare Additional Drawings of Supplemental Drawings during the course of the work, in connection with minor changes, Order-On-Contracts, Supplemental Agreements, or to augment or amplify the Contract Drawings or other drawings, or as part of orders or instructions, and the Contractor shall abide by such drawings in the same manner as specified for the Contract Drawings.

END OF SECTION

GENERAL CONDITIONS

SECTION 00830

CONDITIONS & REQUIREMENTS

00830.01 NEW YORK STATE STANDARDS SPECIFICATIONS

This Contract shall be enforced by the general conditions and requirements stated in Section 100 of the New York State Department of Transportation Standard Specifications, Construction and Materials (Metric Unit) of May 4, 2006 and all Addenda in effect on the date of advertising for bids shall apply, except where modified in the Specifications. Although these Specifications were written with the New York State Department of Transportation (NYSDOT) as the contract managing agency, it is the intent that these conditions and requirements be managed by the Owner. The Owner or its representatives will be responsible for all interpretations and decisions regarding these Specifications for this project. Therefore, the project Owner is to be substituted for any and all references to the Department and State Officials. In addition, where the NYSDOT is mentioned in any capacity as an approving authority with regard to materials, shop drawings or other approvals, the approving authority shall be changed to the Owner. Where reference is made to the proposal in the NYSDOT Standard Specifications and Construction Materials, the proposal shall be substituted with the Contract Documents and Specifications.

The following subsections define the changes made to the NYSDOT Standard Specifications and made part thereof.

00830.02 ABBREVIATIONS AND DEFINITIONS OF TERMS

ABBREBIATIONS OF TERMS – Modify the following definitions:

Award -	Delete the word "Department" and substitute "OWNER".
Chief Engineer -	Delete "The Chief Engineer of the New York State Department of Transportation" and substitute "OWNER".
Commissioner -	Delete "The Commissioner of the New State Department of Transportation" and substitute "OWNER".
Comptroller -	Delete "The head of the New York State Office of the State Comptroller" and substitute "OWNER".
Contractor -	Delete the word "Department" and substitute "OWNER".
Department -	Delete entire Definition and substitute "OWNER".
Department Geotechnical Engineer -	Delete entire definition and substitute "OWNER'S ENGINEER".

GENERAL CONDITIONS

SECTION 00830

CONDITIONS & REQUIREMENTS

00830.02 ABBREVIATIONS AND DEFINITIONS OF TERMS - Continued

Department Engineering Geologist -	Delete entire definition and substitute "OWNER'S ENGINEER".
Director, Construction Division -	Delete entire definition and substitute "OWNER'S ENGINEER".
Engineer or Engineer-in-Charge -	Delete entire definition and substitute "The Engineer representing the Owner having direct supervision of the execution of the Contract under direction of the engineering firm representing the Owner".
Final Agreement -	Delete "State of New York Department of Transportation" and substitute "OWNER".
Geotechnical Engineering Bureau -	Delete.
Inspector -	Delete "The Department of Transportation" and substitute "THE OWNER".
Material -	Delete "Commissioner" and substitute "OWNER".
Materials Bureau -	Delete.
Order on Contract -	Delete "Commissioner" and substitute "OWNER".
Proposal Form -	Delete "Department" and substitute "OWNER".
Subcontractor -	Delete "Department" and substitute "OWNER".
Test -	Delete "Department" and substitute "OWNER".

00830.03 BIDDING REQUIREMENTS AND CONDITIONS

A. 102-02 EXAMINING THE CONTRACT DOCUMENTS AND WORK SITE: Delete the first paragraph and substitute "Detailed plans of the work, standard sheets and contract proposal may be examined at the office of the project Owner or its designee".

GENERAL CONDITIONS

SECTION 00830

CONDITIONS & REQUIREMENTS

00830.03 BIDDING REQUIREMENTS AND CONDITIONS - Continued

A. BASELINE DATA: Delete "Regional Office where the work is located" and substitute "Owner's Office".

B. 102-06 BID DEPOSIT: Delete this Section in its entirety and substitute, therefore, and refer to the requirements of Section 00100.11, Bid Security.

C. 102-07 MODIFICATION OR WITHDRAWAL OF PROPOSAL: Delete this Section in its entirety and substitute, therefore, the requirements of Section 00100.06, Informalities, Waivers and Withdrawals.

D 102-15 SAMPLE FORM OF BID BOND: Delete this Section in its entirety.

E. 102-16 SAMPLE CONTRACT PAY ITEM FORMAT: Delete this section in its entirety.

00830.04 CONTRACT AWARD AND EXECUTION

A. 103-01 CONTRACT AWARD: Delete this Section in its entirety and substitute, therefore, the requirements of Section 00100 - Information For Bidders.

B. 103-06 SAMPLE FORM OF CONTRACT AGREEMENT: Delete this Section in it entirety with the following exceptions: Articles 3, 5, 7, 8, 9 and 11 remain in effect as they are cross referenced in other sections of these Specifications. Reference is made to Section 00570 – Agreement for a copy of the Owner/Contracted Agreement.

00830.05 CONTROL OF WORK

A. 105-14 DISPUTED WORK AND DISPUTE RESOLUTION:

Delete 104-14D in its entirety and substitute the following:

D. **Review Time Periods for Disputes.** After providing written notice the Contractor shall, as soon as the information is available or ascertainable, provide the Engineer with summary of its dispute contentions in accordance with Section 105-14E of the NYSDOT Standard Specifications. The Engineer will make an initial response, in writing, within 15 work days after the Contractor provides the dispute submission.

GENERAL CONDITIONS

SECTION 00830

CONDITIONS & REQUIREMENTS

00830.05 CONTROL OF WORK - Continued

If a dispute is not resolved by the Engineer to the satisfaction of the Contractor within 10 work days or receipt of the Engineer's written decision, or the Engineer fails to reply within 15 days, the Contractor shall notify the Owner in writing, wit copies to the Engineer, of its contentions relative to the dispute, indicating the substance of previous communication on the issue with the Engineer and its rebuttal of their previous findings.

Delete 105.14H in its entirety and substitute the following:

H. **Contract Closeout Process**. A dispute, or a portion thereof, that has been previously submitted to the Owner or its representatives which remains unresolved to the satisfaction of the Contractor, may be submitted for the Owner's review in connection with the closeout process.

1. **Contract Closeout Meeting.** If requested by the Contractor, the Owner or its representatives will schedule a contract closeout meeting with the Owner at their office. The contract closeout meeting process involves meeting(s) with the Contractor and its representatives and the Owner's personnel and representatives to amicably resolve all remaining disputes of the Contract.

2. **Claims.** If any dispute or portion thereof remains unresolved following the meeting(s) or conference(s) and the payment of the final agreement, the Contractor may file a claim in accordance with New York State laws and the provisions of the Contract.

00830.06 TECHNICAL SPECIFICATIONS

The Technical Specifications covering work on this Contract are the Specifications covered under Division 2-16 of this Contract and those in the "NYSDOT Standard Specifications" of May 4, 2006 (including all modifications and addendums at the time of advertisement). As a guide to the Contractor, the following practice was generally used for the identification of Specifications by item number: Specification item numbers contained in the "NYSDOT Standard Specifications" of May 4, 2006, and Addenda remain the same. Item numbers of Specifications prepared by the Owner are included in the Specification Sections (Division 2-16). Payment for Special Specifications shall be based on either lump sum or unit price (as stated in the bid proposal) for the Contract.

GENERAL CONDITIONS

SECTION 00830

CONDITIONS & REQUIREMENTS

00830.06 TECHNICAL SPECIFICATIONS - Continued

The Specifications, Plans and Contract Documents provided by the Owner shall govern over those of other agencies but where the method of work, requirement of materials, and method of payment are not included in the Contract Documents provided by the Owner, the "NYSDOT Standard Specifications" of May 4, 2006, and Addenda mentioned above shall govern.

The Specification Section of these Contract Documents details the applicable item numbers of the NYSDOT Standard Specifications; However, the Contractor shall be aware that Contract Drawings and Specifications contained herein may contain modifications which they are responsible for in the performance of the Contract.

When references are made in these Specifications to the "NYSDOT Standard Specifications" of May 4, 2006, and Addenda and terms in these Specifications refer to the State, Department, Commissioner, Executive Deputy Commissioner, Comptroller, Division, Bureau, Regional Director, or Chief Engineer, it shall be assumed that the Owner is implied; reference to the Engineer or Inspector shall mean that the Engineer representing the Owner is implied. The "NYSDOT Standard Specifications" of May 4, 2006, and any Addenda may be obtained from the NYSDOT Plan Sales Section, 50 Wolf Road, 1st Floor, Albany, NY 12232.

00830.07 RETAINAGE

In amplification to NYSDOT Engineering Instruction 05-029, no retainage will be withheld on this Contract by the Owner. The provisions of EI 05-029 are made part of this Contract. In addition, the Contractor shall not withhold retainage from any of their Subcontractors or Suppliers in accordance with EI 05-029. All payments on this Contract shall be made against work approved in accordance with the terms and conditions of the Contract.

END OF SECITON

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BIDDING & CONTRACT REQUIREMENTS

SECTION 00840

FEDERAL AID REQUIREMENTS FOR TRANSPORTATION ENHANCEMENT PROJECTS

00840.01 SPECIAL NOTICE TO BIDDERS

This is a Federally-Aided Contract subject to approval of the New York State Department of Transportation (NYSDOT). Whenever municipal contract terms and requirements differ from Federal requirements, the Federal requirements will prevail.

00840.02 NEW YORK STATE UNIFORM CONTRACTING QUESTIONNAIRE

The NYSDOT requires that all low bidders and proposed subcontractors present evidence of ownership, experience, ability, and financial standing. All low bidders and proposed subcontractors must have a fully completed New York State Uniform Contracting Questionnaire on file with the Department to be considered for the award of a Contract or the approval of a Subcontract. The New York State Uniform Contracting Questionnaires are available in all plan sales offices, or can be obtained from the Contracting Management Bureau by calling (518) 457-1564; or from the Department's web site (www.dot.state.ny.us) by clicking on "Doing Business with DOT".

Any low bidder who does not have a completed New York State Contracting Questionnaire on file with ten (10) days of receipt of the Contract for execution ay be subject to forfeiture of the amount of bid deposit.

00840.03 CONTRACT REQUIREMENTS FOR LOCALLY ADMINISTERED FEDERAL AID CONTRACTION PROJECTS (APPENDIX 12-1)

The provisions as set forth in Appendix "1" as follows are hereby made part of this Agreement.

• Requirements Regarding Lobbying Activities	00840-3
• Non-Collusive Bidding Certifications	See Section 00480
• Reporting Violations of Non-Collusive Bidding Procedures, Misconduct, Etc.	See Section 00480
• Equal Opportunity Requirements	See Section 00480
• Required Contract Provisions for Federal Aid Projects –	00840-4
• Required Training Special Provisions	00840-25

BIDDING & CONTRACT REQUIREMENTS

SECTION 00840

FEDERAL AID REQUIREMENTS FOR TRANSPORTATION ENHANCEMENT PROJECTS

00840.04 FALL PROTECTION REQUIREMENTS

The provisions as set forth in Section 00840-34 as follows are hereby made a part of this Agreement.

00840.05 ELECTRICAL SAFETY

The provisions as set forth in Section 00840-36 as follows are hereby made a part of this Agreement.

END OF SECTION

CERTIFICATION FOR FEDERAL AID CONTRACTS

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his/her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress, in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress, in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U. S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000.00 and not more than $100,000.00 for each such failure.

The prospective participant also agrees by submitting his/her bid or proposal that he/she shall require that the language of this certification be included in all lower tier subcontracts which exceed $100,000.00 and that such subrecipients shall certify and disclose accordingly.

THESE MUST BE INCLUDED IN ALL FEDERAL AID CONTRACTS, AND MUST BE INCLUDED IN EACH BID PROPOSAL WHETHER NYSDOT SPECIFICATIONS OR LOCAL SPECIFICATIONS ARE USED.

REQUIRED CONTRACT PROVISIONS FOR FEDERAL AID PROJECTS- FHWA 1273

I. General .....
II. Nondiscrimination .....
III. Nonsegregated Facilities.....
IV. Payment of Predetermined Minimum Wage...
V. Statements and Payrolls .....
VI. Record of Materials, Supplies and Labor.....
VII. Subletting or Assigning the Contract.....
VIII. Safety & Accident Prevention.....
IX. False Statements Concerning Highway Projects.....
X. Implementation of Clean Air Act and Federal Pollution Control Act.....
XI. Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion.....
XII. Certification Regarding Use of Contract Funds for Lobbying .....

I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the Contractor's own organization and with the assistance of workers under the Contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the Contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The Prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided for in 29 CFR 5.12:

Section I, Paragraph 2;
Section IV, Paragraphs 1, 2, 3, 4, and 7
Section V, Paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U. S. Department of Labor (DOL) as set forth in 29 CFR 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its Subcontractors) and the contracting agency, the DOL, or the Contractor's employees or their

representatives.

6. Selection of Labor: During the performance of this contract, the Contractor shall not:

a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal Aid construction contracts and to all related subcontracts of $10,000.00 or more)

1. **Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal employment opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the Contractor's project activities under this contract. The Equal Employment Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American with Disabilities Act of 1990 (42 U.S.C. 12101 et. seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the Contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The Contractor will work with the Owner, the State Highway Agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b The Contractor will accept as his/her operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age, or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or other on-the-job training."

2. **EEO Officer:** The Contractor will designate and make known to the Owner's contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. **Dissemination of Policy:** All members of the Contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the

Contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less than once every six months, at which time the Contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the Contractor's EEO obligations within thirty days following their reporting for duty with the Contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the Contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the Contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment, and potential employees.

e. The Contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. **Recruitment:** When advertising for employees, the Contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The Contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the Contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the Contractor for employment consideration.

b. In the event that the Contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the Contractor's compliance with the EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the Contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The Contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5 **Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race,

color, religion, sex, national origin, age, or disability. The following procedures shall be followed:

a. The Contractor will conduct periodic inspection of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The Contractor will periodically evaluate the spread of wages within each classification to determine any evidence of discriminatory wage practices.

c. The Contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the Contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The Contractor will promptly investigate all complaints of alleged discrimination made to the Contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the Contractor will inform every complainant of all his avenues of appeal.

6. **Training and Promotion:**

a. The Contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the Contractor's work force requirements and as permissible under Federal and State regulations, the Contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The Contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The Contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the Contractor relies in whole or in part upon unions as a source of employees, the Contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the Contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The Contractor will use best efforts to develop, in cooperation with the unions, joint

training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The Contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age, or disability.

c. The Contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the Contractor, the Contractor shall so certify to the Owner and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the Contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the Contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the Contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the Contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such Contractor shall immediately notify the Owner.

5. Selection of Subcontractors, Procurement of Materials, and Leasing of Equipment: The Contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The Contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the Contractor enters into pursuant to this contract. The Contractor will use his best efforts to solicit bids from and use DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA and/or Owner personnel offices.

c. The Contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

6. Records and Reports: The Contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work, and shall be available at reasonable times and places for inspection by authorized representatives of, the Owner, the SHA, and the FHWA.

a. The records kept by the Contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

7. The Contractors will submit an annual report to the Owner and the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the Contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal Aid construction contracts and to all related subcontracts of $10,000.00 or more)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal Aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provision of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age, or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g., disabled parking).

c. The Contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of $10,000.00 or more and that it will retain such certification in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal Aid construction contracts exceeding $2,000.00 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. **General:**

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at the time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor or its Subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the Contractor and its Subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employee's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. **Classification:**

a. The Owner's contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rates, and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a

classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the Contractor or Subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D. C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. The event the Contractor or Subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representative, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. **Payment of Fringe benefits:**

a. Whenever the minimum wage rates prescribed in the contract for a class of laborers or mechanics include a fringe benefit which is not expressed as an hourly rate, the Contractor or subcontractors, as appropriate, shall either pay the benefits as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the Contractor or Subcontractor, as appropriate, does not make payments to a trustee or other third party person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. **Apprentice and Trainees (Programs of the U. S. DOL) and Helpers:**

a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire workforce under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage determination for the work actually performed. Where a Contractor or Subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the Contractor's or Subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor or Subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) Except as provided for in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a

training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the training program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than the full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the Contractor or Subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under an approved definition, shall be paid not less than the applicable wage rate determination for the classification of work actually performed.

Apprentices and Trainees (Programs of the U. S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with the Federal Aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. **Withholding:** The Owner shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the Contractor or subcontractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any Subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the Owner's contracting officer may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further

payment, advance, or guarantee of funds until such violations have ceased.

7. **Overtime Requirements:** No Contractor or Subcontractor contracting for any part of the contract which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraph 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any work week in which he/she is employed on such work, to work in excess of 40 hours in such work week unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such work week.

8. **Violations:** Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the Contractor and any Subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such Contractor or subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of $10.00 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. **Withholding for Unpaid Wages and Liquidated Damages:** The Owner shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the Contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or Subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENT AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. **Compliance with Copeland Regulations (29 CFR 3):**

The Contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. **Payrolls and Payroll Records:**

a. Payrolls and basic records relating thereto shall be maintained by the Contractor and each Subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates or contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types of described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the Contractor and each Subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the Owner's resident engineer or agent in charge of the project a payroll of wages paid each of its employees (including apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), US Government Printing Office, Washington DC 20402. The Prime Contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or Subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less than the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 USC 1001 and 31 USC 231.

g. The Contractor or Subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the Owner, the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Owner, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1 Effective May 22, 2007, FHWA no longer require the submission FHWA Form-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds."

2 At the Prime Contractor's option, either a single report covering all contract work or separate reports for the Contractor and for each Subcontractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The Contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a total percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the Owner. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the Contractor's own organization (23 CFR 635.116).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the Prime Contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The Contractor amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The Contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the

contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizations resources (supervision, management and engineering services) as the Owner's contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the Owner's contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the Owner has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the Contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635.108). The Contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the Owner's contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the Contractor enters into pursuant to this contract, that the Contractor and any Subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under Construction Safety and Health Standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 USC 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have the right of entry to any site of contract performance to inspect or investigate the matter of compliance with the Construction Safety and Health Standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 USC 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, supplies, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635.119) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY

PROJECTS

18 USC 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowing makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-Aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more that $10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid Construction contracts and to all related subcontracts of $100,000.00 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 USC 1857 et seq., as amended by Pub. L 91-604), and under the Federal Water Pollution Control Act, as amended (33 USC 1251 et seq., as amended by Pub. l. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed on the date of contract award, on the US Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the Owner of the receipt of any communication form the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1

through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions: (Applicable to all Federal-aid contracts and to all related subcontracts of $100,000.00 - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

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Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicated for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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2. Instructions for Certification - Lower Tier Covered Transactions: (Applicable to all subcontracts, purchase orders and other lower tier transactions of $25,000.00 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily exclude," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of these regulations.

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealing.

i. Except for transactions authorized under paragraph e of these instructions, if a

participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated my pursue available remedies, including suspension and/or debarment.

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Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 - 49 CFR 20)

1. The prospective participant certified, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying." in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 USC 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT PREFERENCE FOR APPALACHIAN CONTRACTS
(Applicable to Appalachian contracts only.)

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph 1c shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph 4 below.

The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which he estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, he shall promptly notify the State Employment Service.

2. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

3. If, within 1 week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph 1c above.

4. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work

REQUIRED IN ALL FEDERAL AID CONTRACTS, AND MUST BE INCLUDED IN EACH BID PROPOSAL REGARDLESS OF WHOSE SPECIFICATIONS ARE USED.

REQUIREMENTS REGARDING TRAINING IN FEDERAL AID CONTRACTS
TRAINING SPECIAL PROVISION

GENERAL. The primary objective of this Training Special Provision is to provide training opportunities to minority and disadvantaged persons and women in construction trades for two purposes:

1. To maintain a pool of qualified minority and disadvantaged persons and women to replace those journeyworkers who, in the natural course of events, will leave the workforce; and

2. To provide minority and disadvantaged persons and women as indentured apprentices or trainees in those geographic areas where shortages in minority and women journeyworkers are recognized because of the Contractor's inability to meet the Equal Employment Opportunity (EEO) goals set forth in this contract.

This work shall consist of the employment and meaningful and effective training of minority and disadvantaged persons and women in training programs approved by the N. Y. S. Department of Transportation leading to their qualifications as journeyworkers in the skilled trades required in highway construction. This Training Special Provision supplements the Equal Employment Opportunity requirements included elsewhere in this Proposal entitled either "Standard Federal Equal Employment Opportunity Construction Contract Specifications (Executive Order 11246) or "Equal Employment Opportunity Requirements." Each of the foregoing prescribes specific percentage goals for utilization of minorities and women in the performance of work for the geographic area location of the contract.

Each contract which contains this Training Special Provision shall require the training of at least one minority or woman indentured apprentice or trainee. Such individual shall be either approved or selected by the Owner with concurrence by the Department of Transportation. Other than this initial training obligation, to be undertaken and provided by the Contractor, no additional training obligations will exist under this Training Special Provision unless the goals for minority and women employment and training in the skilled workforce (exclusive of laborers) are not continuously met on the contract and generally distributed amongst the trades. In the five counties of New York City, the goals specified for each trade are applicable. Whenever the goals are not met, additional minority and/or women indentured apprentices and/or trainees will be assigned or approved in numbers necessary to meet the goals. Data necessary to determine if goals are being met will be provided on Contractor and Subcontractor Monthly Employment Utilization Reports (Form AAP 33LL) submitted by the Contractor on a monthly basis to the Engineer-in-Charge of the construction contract, or other agent of the Owner responsible for administering the contract, or other forms approved by the Department of Transportation.

The data will be verified by the visual observance of the Engineer-in-Charge, or designated project inspectors, or other agent of the Owner, and hours of employment reported on Contractor and Subcontractor certified weekly payrolls. The number of minority and women indentured apprentices and trainees required to be trained under this item shall not exceed the equivalent of 12 1/2% of the total journeyworker workforce on the contract (counted in hours worked), i.e., no more than 1 in 8 of the skilled workforce is required to be a minority or woman indentured apprentice or trainee. This limitation applies regardless of minority or women representation in the trades. However, this limit on required training in no way absolves the

Contractor of the responsibility to comply with the EEO contract requirements.

1/ Disadvantaged means a person who is either: (a) a member of a family that receives public assistance; or (b) a member of a family whose income during the previous six (6) months, on an annualized basis, was such that: (1) the family would have qualified for public assistance, if it had applied for such assistance; or (2) it does not exceed the poverty level. NOTE: The name, address, and social security number of candidates to be trained under the disadvantaged criteria must be submitted to the Owner accompanied by related economic documentation for approval prior to commencing training

2/ Journeyworker means a person who is capable of performing all the duties within a trade or a given work classification of a trade approval prior to commencing training, subject to concurrence by the Department of Transportation.

REQUIREMENTS REGARDING TRAINING ON FEDERAL AID CONTRACTS

PRECONSTRUCTION MEETING. Before the Contractor will be allowed to begin work, the Contractor shall attend a Preconstruction Meeting and shall submit for the Owner's use and acceptance, a Manpower and Training Utilization Schedule (Form AAP 35) which shall be correlated to the Contractor's work schedule. The Schedule shall include at least the following information:

1. A work schedule for the entire contract,

2. An estimate of the work force required to conform to the work schedule on a monthly basis including an estimate of the work force in each trade and/or work classification projected to be used,

3. Separate estimates of the number of minority and women indentured apprentices or trainees that would be required in each skilled trade to meet the contract EEO employment goals for that trade assuming no minority or women journeyworkers in the workforce,

4. The approved training programs to be used and the proposed starting dates for training in each trade and/or work classification,

5. An estimate of the availability of minority and women journeyworkers in numbers sufficient to meet the EEO contract goals, and

6. Any proposal by the Contractor to use trainees or indentured apprentices to make up for anticipated EEO goal shortfalls. Such proposals shall include the name and craft of any individual proposed by the Contractor as the required trainee or indentured apprentice. In the case of an indentured apprentice, evidence of indentureship and registration of the approved apprenticeship program must be included.

No contract work may be undertaken until the Owner has accepted the Schedule and obtained the concurrence of the Department of Transportation. The Contractor shall submit a revised Manpower and Training Utilization Schedule at such times as major changes in the contract work schedule or a significant workforce buildup occurs which substantially affect the previously submitted Schedule.

RECRUITMENT. Although the training requirements of this Training Special Provision are not intended, and shall not be used to discriminate against any applicant for training, whether a member of a protected class or not, it is recognized that non-minority males have traditionally been and continue to be trained, either formally or on-the-job in an informal manner, for work in the trades utilized in construction work. Therefore, until such time that representative numbers of minorities and women complete training and their utilization as journeyworkers is demonstrated to the extent of the participation goals set forth in the Department of Transportation's construction contracts, training required under this Training Special Provision will be primarily limited to minorities, women, and disadvantaged individuals.

Thus, the Contractor shall demonstrate compliance with the intent of this Training Special provision by affording the Owner, with the concurrence of the Department of Transportation's appropriate Regional Compliance Specialist (RCS), the opportunity to:

1. First, approve the use of a minority or woman indentured apprentice known to the Contractor through an existing Joint Apprenticeship Training Program, or

2. Second, provide a partially-trained minority or woman trainee who is currently enrolled in a New York State Department of Transportation approved training program, or

3. Third, work cooperatively with the Contractor in recruitment of new minority or women trainees, when needed.

In conformance with the foregoing, the Contractor should submit a Department of Transportation Form AAP-17, Request for Personnel, to the Owner at the Preconstruction Meeting, and the Owner should seek concurrence of that from Department of Transportation's Regional Compliance Specialist. The Contractor is responsible for ensuring that on-the-job orientation for approved indentured apprentices or assigned trainees is provided to such individuals within their first month of employment.

WORK HISTORY. No individual shall be employed as a trainee or indentured apprentice in any trade and/or work classification in which such person has successfully completed a training course providing journeyworker status in the same trade or work classification, or in which such person has been gainfully employed as a journeyworker by virtue of informal on-the-job training. Detection of individuals in the above categories may be accomplished by including appropriate questions on employee application forms, inquiries to the Department of Transportation Regional Compliance Specialist, checking personal references, or by other suitable means. Regardless of the method used, the Contractor shall document the findings for each indentured apprentice or trainee provided training under this requirement. A copy of the findings shall be given to the Owner's Engineer or agent in charge of the project, who shall request concurrence of the Department of Transportation. In the case of indentured apprentices, evidence of indentureship in a registered approved apprenticeship program shall also be provided.

SUBCONTRACTING. In the event the Contractor subcontracts a portion of the contract work, the Contractor shall ensure that the requirements of this Training Special Provision are physically incorporated into such subcontracts to ensure that the workforce utilized by the Subcontractor meets the goals for minority and women employment and training, either independently or in combination with the Contractor's workforce. The Contractor must determine the hours of training, if any, and in which trade or work classifications, minority or women indentured apprentices or trainees are to be trained by the Subcontractor(s). However, the Contractor shall retain the primary responsibility for meeting the training requirements of this Training Special Provision. Subcontractors are herewith advised that disregard of these requirements may result in the Department of Transportation either rescinding approval or disapproving their use on subsequent contracts let by the Department of Transportation or on contracts let by other agencies under agreement to the Department of Transportation.

TRAINING AND APPRENTICESHIP PROGRAMS. The minimum length, type of training, and rate of pay for the trade or the work classification of the trade will be specified in the training program approved or sanctioned by the New York State Department of Transportation with the concurrence of the Federal Highway Administration. Both of these agencies shall approve or sanction a training program if it meets the Equal Employment Opportunity obligation of the Contractor and qualifies the trainee for journeyworker status in the trade or work classification

concerned by the end of the training period. Furthermore, apprenticeship programs registered with the U. S. Department of Labor, Office of Manpower Development, Apprentice Training Section, and training programs approved, but not necessarily sponsored, by the U. S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training, shall also be considered acceptable provided they are administered in a manner consistent with the Equal Employment Opportunity obligations of New York State Department of Transportation construction contracts. A copy of the training programs approved by the NYSDOT will be made available by the NYSDOT upon request by the Owner or the Contractor. The Contractor shall provide a copy of the approved apprenticeship or training program to the indentured apprentice or trainee.

Where training is to be provided under this Training Special Provision, the Contractor shall obtain acceptance or approval of the training or apprenticeship program to be used, and the starting time for training, prior to commencing training. The Contractor shall provide on-the-job training directed toward developing journeyworkers in the trade, or work classification(s) of the trade, involved. To the extent that the work involved on the contract permits, such training should include all phases and facets of a trade, or work classification of a trade, to satisfy usual construction industry requirements for continued or future employment therein. Additionally, the Contractor shall provide a minimum of 144 hours per calendar year of related classroom training at an approved facility for each individual so enrolled, in accordance with Article 23 of the New York State Labor Law, Section 815.3.

WAGES. Indentured apprentices will be paid at least 60 percent of the appropriate prevailing wage rate specified in the contract for the same trade or work classification for which they are being trained for the first half of the training period, 75 percent for the third quarter of the training period, and 90 percent for the last quarter of the training period. Trainees will be paid the appropriate prevailing wage specified in the contract for the same trade or work classification for which they are being trained.

Indentured apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determinations for the applicable classification. On-the-job (OJT) trainees shall be paid fringe benefits in accordance with the provisions of the prevailing wage rates.

If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determinations unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyworker wage rate on the wage determination which provides for less than full benefits for apprentices.

DURATION OF TRAINING. Once an indentured apprentice is approved or a trainee is assigned to the contract under this Training Special Provision, that individual shall be trained in the designated trade throughout the duration of the contract whenever such trade is in use on the contract until the trainee or indentured apprentice has completed the approved training program. Where training is provided under a multi-phase apprenticeship or training program, it is expected that training will be provided continually through all phases to the extent that opportunities for such training exist in the work under contract. Upon satisfactory completion of a phase of training under a multi-phase apprenticeship or training program, if training in the

remaining phases is not available and work in the completed phase is available, the minority or woman indentured apprentice or trainee shall continue employment, and be compensated at the prevailing journey worker wage rate for such work. Hours of employment as a journey worker described above will not be credited toward training hours required by the approved training or apprenticeship program.

A trainee may be terminated at any time during training for excessive absenteeism, lack of punctuality, accident-proneness, lack of interest, poor attitude, and continued failure to conduct his/herself in a professional manner. However, termination will not occur prior to proper counseling, documentation, and notification in writing to the Owner's Engineer or agent in charge of the project, and to the Department of Transportation's Regional Compliance Specialist, and subsequently, the concurrence of the Owners' engineer or agent and the NYSDOT Regional Compliance Specialist, with that termination.

REQUIRED RECORDS. The Contractor shall provide each minority or woman trained under this provision with a certification showing the type and length of training satisfactorily completed. In addition, the Contractor shall keep records on the job site indicating the nature and hours of training provided to each trainee or indentured apprentice documenting performance under this Training Special Provision to the Owner's Engineer or agent in charge of the project and to the Department of Transportation's Regional Compliance Specialist. Form AAP-42a, Training Report, will be submitted once the trainee or indentured apprentice commences training, completes training, or is terminated and each December 31st that individual is in training. Form AAP-26a, Monthly Training Progress Report, will be submitted every month after the individual commences training. No measurement will be made of training provided to indentured apprentices or trainees for whom no work history has been provided to the Owner's Engineer or agent in charge of the project. In addition, no measurement will be made of the training provided to apprentices for whom no evidence of indentureship in a registered program has been provided to the Owner's Engineer or agent in charge of the project.

NO PAYMENT FOR TRAINING. No payment will be made to the Contractor for the training required by this Training Special Provision. The required training is a labor cost which is included in the unit prices bid by the Contractor for the items of work comprising the contract.

LISTS OF OJT & REGISTERED APPRENTICESHIP PROGRAMS. Effective April 1, 1992, the New York State Department of Transportation commenced a demonstration program in NYSDOT Regions 2, 3, 5, and 11 requiring the exclusive use of apprenticeship training to fulfill the Training Special Provision and supplement EEO goal attainment. In the remaining NYSDOT Regions, contractors will be allowed to use on-the-job training (OJT) programs during the period of the demonstration project. However, only OJT programs for crafts that have been deemed as apprenticeable occupations will be approved. In order to ease the transition from OJT to apprenticeship, it is required that all OJT participants receive related classroom instruction.

It is the policy of the New York State Department of Transportation to afford equal employment opportunity to traditionally socially and economically disadvantaged persons by providing training opportunities to minority and disadvantaged persons and women to improve their potential for construction employment. NYSDOT, therefore, provides training as a contract requirement on selected construction contracts, including those let by other agencies and local governments under an agreement with NYSDOT.

When OJT is to be provided under this Training Special Provision, the Contractor shall obtain acceptance from the Owner and NYSDOT for the OJT Program to be utilized and the starting time frame for training, prior to commencing training. Accordingly, the following is a listing of OJT programs which have been approved by the NYSDOT and the Federal Highway Administration (FHWA) for utilization in NYSDOT Regions 1, 4, 6, 7, 8, and 10.

NOTE: A contractor in these Regions may opt to use either OJT or apprenticeship programs. However, the use of apprenticeship programs is strongly encouraged.

REQUIREMENTS REGARDING TRAINING IN FEDERAL AID CONTRACTS

APPROVED OJT PROGRAMS

1. Carpenter
10.10 Carpenter Training Program (Highway and Bridge)

2. Mason
20.10 Concrete Finisher/Cement Mason Training Program

3. Operating Engineer
30.20 Roller & Bulldozer Operator Training Program
30.21 Crane, Clamshell, Derrick, and Dragline Operator Training Program (1 1/2 yd. under/over)
30.22 Roller and Front End Loader Operator Training Program (1 cu yd under/over)
30.23 Roller and Grader Operator Training Program
30.24 Roller and Scraper Pan Operator Training Program
30,25 Heavy Duty Mechanic Training Program

4. Ironworker
40.10 Ironworker (Reinforcing and Structural) Training Program

5. Rodman
50.10 Instrument person Training Program

6. Painter
60.10 Painter Training Program

7. Welder
90.10 Heavy Duty Welder Training Program

REQUIREMENTS REGARDING TRAINING IN FEDERAL AID CONTRACTS

Apprenticeship programs registered with the U. S. Department of Labor, Bureau of Apprenticeship and Training, or with the New York State Department of Labor, Office of Manpower Development, Apprentice Training Section, and training programs approved but not necessarily sponsored by the U. S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training, shall also be considered acceptable provided that they are being administered in a manner consistent with the Equal Employment Opportunity obligations of NYSDOT construction contracts.

APPROVED APPRENTICESHIP PROGRAMS

NYS Dept. of Labor #	NYSDOT #	TITLE
1. Carpenter		
860.381.022	10.01	Carpenter Apprentice Locals # 1093, 1379, 1772, 1292 & Carpenters JAC of Nassau County

842.361.010 10.02 Lather (Carpenter)
860.381.022 10.03 Carpenter Apprentice Open Shop Association

2. Mason
844.364.010 20.01 Cement Finisher Apprentice
861.381.018 20.02 Bricklayer & Mason Apprentice Locals #1, 9, 21, 30, 34, 37, & 41, and Bricklayer JAC of New York
844.364.010 20.03 Cement Mason Apprentice
844.364.010 20.04 Cement Mason Open Shop Association

4. Operating Engineer
859.683.010 30.01 Heavy Equipment Operator Apprentice Locals #138, 138A, 138B, & International Union of Operating Engineers
859.683.010 30.02 Equipment Operator Apprentice Locals #106, 410, 463, 545, & 832
620.261.022 30.03 Operating Engineer Apprentice-Heavy Duty Repairperson
859.683.010 30.04 Equipment Operator Apprentice Grade 7 Paving
859.683.010 30.05 Operating Engineer Open Shop Association
859.683.010 30.06 Operating Engineer Apprentice Program - Local 17
859.683.010 30.07 Operating Engineer Apprentice program - Local 825
859.683.010 30.08 Operating Engineer Universal Equipment Apprentice - Local 137
018.167.018 30.09 Field Engineer Surveyor Apprentice - Local 825
859.683.010 30.10 Heavy Equipment Operator Apprentice (International Union of Operating Engineers) - Locals 14 & 14B
5. Ironworker
801.361.014 40.01 Ornamental Ironworker Apprentice
801.361.014 40.02 Ironworker Apprentice

6. Technical Engineer
018.167.018 50.01 Technical Engineer Apprentice
018.167.018 50.02 Technical Engineer Surveyor Apprentice - Locals 106, 410, 463, 545, & 832
869.381.010 50.03 Rodperson Apprentice

7. Painter
840.381.010 60.01 Painter & Decorator Apprentice

8. Electrician
824.261.010 80.01 Electrician Apprentice Program - Locals 3 & 25

REQUIRED ON ALL FEDERAL AID CONTRACTS OF $1,000,000 OR MORE, AND MUST BE PUBLISHED IN THE BID PROPOSAL REGARDLESS OF WHOSE SPECIFICATIONS ARE USED.

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SPECIAL NOTE
FALL PROTECTION REQUIREMENTS

This project includes work that may require exposure of workers to risks associated with elevated work locations. By issuance of the Special Note, Contractors are on notice that the provision of fall protection for all workers, in full compliance with OSHA Part 1926, is mandatory on all municipal contracts, including this contract. The Contractor is further placed on notice that the proposed procedures to meet the fall protection requirements must be identified in the Project Safety and Health Plan, as required under Section 107-05 of the Standard Specifications and as amended by NYSDOT Engineering Bulletins and Engineering Instructions.

The requirements of all applicable OSHA regulations notwithstanding, the minimum fall protection requirements on this project shall include the following:

1. All fall protection systems must meet the requirements of Part 1926, Subpart M.

2. For situations where lifelines are interrupted, double lanyards are necessary to ensure that the work is continuously protected from falling by attaching one lanyard ahead of the discontinuity prior to unhooking the trailing lanyard.

3. Ladders or stairways are required at all points of personnel access where there is a change in elevation of 19 inches (483mm) or more, and no ramp, runway, sloped embankment or personnel hoist is provided. These devices must meet the requirements of Part 1926 Subpart X. Climbing on forms, falsework, or the structure to gain access to work areas is expressly prohibited. However, it is not intended to prohibit the use of ladders for access to work areas, provided the operation is in compliance with OSHA Part 1326 Subpart X and other relevant requirements.

4. Where scaffolds are necessary to provide temporary access to work areas, they must be in compliance with §1926.451. Scaffolds must include a top rail, mid rail, and toe board in compliance with §1926.451, on all open sides and ends. Personal fall arrest systems meeting the criteria of Part 1926 Subpart M are required to protect workers during installation and removal of the railings, and in situations where physical restrictions preclude installation of a standard railing.

5. Suspended scaffolds may be used for bridge painting or other purposes only if personnel lifts, scaffolds, or other means are not practical, and only if they meet the requirements of §1926.451. Specifically, the scaffold must be secured to the suspension cables at all times. All personnel working on a suspended scaffold must be provided fall protection by means of safety nets, personal fall arrest systems, or other means meeting the criteria of Part 1926 Subpart M.

6. Fall protection is required for open sides or ends of floors or bridge decks, and for opening in floors or bridge decks, as required in Part 1926 Subpart M. In no case shall a height of fall 6 feet (1,829mm) or greater from the side, end, or opening in a floor or bridge deck remain unprotected.

7. All workers in approved personnel aerial lifts must use a personal fall arrest system meeting the criteria of Part 1926 Subpart M, with the lanyard attached to the boom or basket, as required by OSHA §1926.556.

8. Because falls from structural members constitute a serious and clearly recognizable hazard, fall protection for all steel or concrete beams and other structural elements must be in place prior to erection to provide fall protection for workers involved in the initial erection and in subsequent operations until the deck forms are in place. This fall protection shall consist of personal fall arrest systems, safety nets or other means meeting the requirements of Part 1926 Subpart M. During the initial connection of structural elements, workers exposed to moving members shall be required to tie off only if they are not exposed to a greater risk from the moving member. Initial connection is

defined as that period during placement or removal of structural members when the member is supported by a crane or other lifting device.

9. During the installation of bridge deck forms, either wood or stay-in-place corrugated metal (SIP), all workers must be protected from falls 6 feet (1,829mm) or greater in height by means of personal fall arrest systems, safety nets, guardrail systems, or other means meeting the requirements of Part 1926 Subpart M. If the Contractor can demonstrate that using one of the conventional fall protection systems described in Subpart M would create a greater safety hazard or is infeasible, i.e., impossible to construct or would prevent the performance of the required work, an alternate system may be used. The Contractor must develop and implement a written fall protection plan meeting the requirements of §1926.502.

10. Instances in which it is impossible to provide fall protection for workers are rare. Where an individual worker must rig the fall protection system, and it cannot be accomplished from an aerial lift or by tying-off to the existing structure, momentary exposure to a fall hazard may be unavoidable. Likewise, ironworkers making initial connections during steel erection or removal may at times not be able to tie off, or otherwise be protected because they need to remain mobile. It is essential that adequate planning of construction procedures minimize such occurrence of unprotected exposure to fall hazards. It is equally essential that the fall protection systems utilized actually enhance safety, rather than creating a secondary hazard.

The following list summarizes commonly encountered situations where fall protection is required, the heights at which fall protection must be provided, type of protection, and provides the OSHA reference for that requirement:

SITUATION	HEIGHT REQUIRING FALL PROTECTION	OSHA REFERENCE
Scaffold	10 ft. (3,048mm)	Subpart L
Impalement Hazard	Any Exposure	1926.20(a)(1); P.L. 91-596 §5 (a)(1)
Bridge Decks, Unprotected Sides and Edges	6 ft (1,829mm)	1926.500(b)(1)
Bridge Decks, Form Installation	6 ft (1,829mm)	1926.500(b)(2)
Steel Bridges – Initial Connections	10 – 25 ft (3,048 – 7,620mm)	NYSDOT requirement
Steel Bridges – Initial Connections	Above 25 ft (7,620mm)	1926.105
Formwork and Reinforcing Steel	6 ft (1,829mm)	1926.501(b)(5)
Pre-cast Concrete Erection	6 ft (1,829mm)	1926.501(b)(12)
Ramps, Walkways and Runways	6 ft (1,829mm)	1926.501(b)(7)
Aerial Lifts	All Situations	1926.556(b)(2)(v); must satisfy criteria in 1926.502
Ladders	Varies	1926 Subpart X
Holes and Floor Openings	6 ft (1,829mm)	1926.501(b)(4)
Dangerous Equipment	All Situations	1926.501(b)(8)
Any situation with potential for tripping, impalement or other severe hazard	Any Height	1926.20(a)(1); 1926.28(a); P.L. 91-596 §5(a)(1)

SPECIAL NOTE
ELECTRICAL SAFETY

This proposal insert note contains policy and procedures for working near energized electrical systems. It is based on OSHA standards, the NYS High Voltage Proximity Act, and Highway Law. It applies to all operations in the contract that could cause employees or the vehicles or equipment they are operating to come into contact with or enter into dangerous proximity to energized electrical systems.

NYS High Voltage Proximity Act applies to electrical systems carrying 600 volts or more and requires employers to:

- Ensure employees are not placed in proximity to high voltage. Proximity is defined as within 10 feet (3,048mm) for voltages up to 50 kilovolts.

- Inform employees of the hazards and corresponding precautions when working near high voltage.

- Post warning decals on equipment regarding 10-foot (3,038mm) minimum clearance.

- Ensure that when an equipment operator is unable to assess clearances a "spotter" observes for clearance and directs the operator.

- Notify the utility at least five (5) working days before any work begins which requires the utility to identify voltages and clearances, or de-energize, insulate or relocate lines.

Failure to comply with any of these provisions is a violation of law and a serious breach of public safety policy and procedure and the Engineer will issue a stop work for any operation that is not in compliance.

PROCEDURES

GENERAL: Prior to the start of work where contact with energized electrical systems is possible, the Contractor shall identify energized lines or equipment and reference their location to prominent physical features. In addition, the Contractor shall mark the pavement beneath overhead lines with spray point, survey tape, or with high visibility markers and shall maintain all markings during the period they are required.

The owners of the utilities shall be called upon to decide the need to de-energize or insulate the lines or for the need to otherwise protect the lines against accidental contact. The actual work of protecting the lines shall be carried out by their owners. Protection provided at the request of the Owner, with respect to utility facilities located within the highway right-of-way shall be the sole financial responsibility of the utility. In addition, upon request, the utility at its sole expense shall provide necessary information concerning its high voltage facilities to the Owner and its contractors and subcontractors. Protection provided for the benefit of or at the request of a contractor or subcontractor of the Owner shall be the financial responsibility of the contractor or subcontractor.

The location of electrical lines and the precautions and safeguards to be taken shall be discussed at pre-work safety meetings with all employees on the job. New employees will be informed of electrical hazards and proper procedures at the work site.

The Contractor shall identify and reference all potential electrical hazards and document such actions as part of the Safety Plan for the project. Energized electrical lines or equipment shall be conspicuously marked and workers shall be reminded of their locations and the safeguards and precautions to be taken

SPECIAL NOTE
ELECTRICAL SAFETY

prior to beginning any nearby work that may cause the workers to approach electrical lines. New employees shall be informed of electrical hazards and proper precautions and procedures.

Requirements for specialized work shall be as follows:

1. Paving, Patching, Chip Sealing or Widening. Prior to the start of each workday high visibility markers or other devices approved by the Engineer shall be placed to mark the location of overhead wires. As an alternative, the pavement beneath overhead lines may be marked with spray paint or by other means approved by the Engineer. This requirement shall also apply to off-site areas used for contract purposes. The Contractor shall periodically patrol the worksite to ensure that the markings are in place and shall replace any that are missing and shall maintain all markings in good condition. Supervisors shall discuss electrical safety with appropriate crew members at tailgate safety talks.

   Spotters shall be positioned at the paver or widener to direct truck movement and observe for overhead wires. The spotter, drivers, operators, supervisors and all employees shall be alert for overhead wires.

   All trucks operating on the project, delivering materials, or delivering equipment to the site shall display warning decals regarding electrical contact. Independent truck drivers delivering materials or equipment shall be provided decals. Drivers shall be told about the presence and location of overhead electrical wires before beginning work, how they are marked, and the requirements for spotters. Trucks that have emptied their material shall not leave the paver until the box is in its full down position.

2. Aerial Lifts, Cranes, Boom Devices. Where there is potential for proximity or contact with energized lines or equipment, work shall not begin until a safety meeting is conducted and appropriate steps are taken to identify, mark and worn against accidental contact. The supervisor shall review operations daily to ensure compliance.

   Where the operator's visibility is impaired, spotters shall guide the operator. Hand signals shall be used and their meaning clearly understood between operator and spotter. When visual contact between the spotter and the operator is impaired, the spotter and operator shall be in two-way radio contact.

   Aerial lifts, cranes, and boom devices shall be appropriate warning decals.

3. Tree Work. Wires shall be treated as live and high voltage until verified by the utility. Branches touching wires shall be removed by the utility before work begins. Limbs and branches shall not be dropped onto overhead wires. If limbs or branches fall across electrical wires, all work shall stop immediately and the utility shall be called.

   When climbing or working in trees, pruners shall try to position themselves so that the trunks of the limbs are between their bodies and electrical wires. Pruners shall not work with their backs toward electrical wires. A bucket truck is the preferred method of pruning when climbing poses a greater electrical contact threat.

   Personal protective gear shall have appropriate de-electric characteristics needed for working near electricity.

SPECIAL NOTE
ELECTRICAL SAFETY

UNDERGROUND ELECTRICAL LINES AND EQUIPMENT

Before installation, excavation or subsurface exploration where there exists reasonable possibility of contracting any utility lines or equipment, the Underground Facilities Protective Organization (UFPO) shall be called and a request made for identifying/marking their location(s).

When UFPO is called, telephone operators will need:

- minimum of two (2) working days notice prior to work beginning,
- name of County, City, Village or Town,
- name and number of street or highway marker,
- nearest intersection at work site,
- type of work,
- date and time work is to begin,
- caller's name, Contractor/Department name and address,
- phone number of contact and special instructions.

Utilities that do not belong to UFPO (Dig Safely New York – 811) must be contacted separately. UFPO may not have a complete list of utility owners. The City is required to maintain this information and may have to be contacted.

Utilities discovered shall be marked before work begins. Supervisors shall periodically refer their location to all workers who are subject to exposure, including new employees.

EMERGENCY RESPONSE

When working near electrical lines or equipment, avoid direct or indirect contact. Direct contact is contact with any part of the body. Indirect contact occurs when part of the body touches or is in dangerous proximity to any object in contact with energized electrical equipment. Two assumptions should always be made: 1) that lines are "live" (energized); and 2) carry high voltage. Electrical lines can only be considered "dead" when verified by the utility.

When there is any question about voltage and safe distance, the owner of the lines or equipment must be called in advance of work. As voltages increase, minimum clearances increase. Through arcing, injuries or fatalities may occur even if actual contact with high voltage lines or equipment is not made. Potential for arcing increases as voltage increases. Weather and contract with conductors, such as tools, can increase the possibility of becoming energized without contact.

If an individual becomes energized, **DO NOT TOUCH** the individual or anything in contact with the person. Call for emergency medical assistance and the utility immediately. If the person is no longer in contact, CPR, rescue breathing or first aid should be administered immediately, but only by a trained person. It is safe to touch the victim once contact is broken or the source de-energized.

If the power line falls:

- keep everyone at least 10 feet (3,048mm) away,
- use flagging to protect motorists from fallen or low wires,
- call the utility, police or fire department immediately,
- place "guards" around the area,

SPECIAL NOTE
ELECTRICAL SAFETY

- do not attempt to move the wire(s),
- do not touch anything that is touching the wire(s).
- be alert to water or other conductors present.

Wires that contact vehicles or equipment will cause arcing, smoke, and possible fire. Occupants should remain in the cab and wait for the utility. If necessary to jump from a vehicle, leap with both feet as far away from the vehicle as possible, without touching the equipment. Jumping free of the vehicle is the last resort.

Crews shall have emergency numbers readily available. These numbers shall include local utility, police/fire and medical assistance.

ESSEX COUNTY PROVISIONS

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APPENDIX C

INSURANCE REQUIREMENTS - PUBLIC WORKS CONTRACTORS

I. The Contractor *and each of its subcontractors* shall procure and maintain during the entire term of the contract the following required insurance:

= ***Commercial General Liability Insurance***
$1,000,000 per occurrence/ $2,000,000 aggregate, including coverage for liability assumed by contract, completed operations, explosion, collapse, underground hazard and products liability.

= ***Automobile Liability***
$1,000,000 combined single limit for owned, hired and borrowed and non-owned motor vehicles.

= ***Workers' Compensation***
Statutory Workers' Compensation and Employers' Liability Insurance for all employees.

= ***Owners & Contractors Protective Liability Insurance***
$2,000,000 per occurrence / $2,000,000 aggregate.

= ***Excess/Umbrella Liability Insurance***
$1,000,000 per occurrence / $2,000,000 aggregate.

II. Notwithstanding any terms, conditions or provisions, in any other writing between the parties, the Contractor hereby agrees to name the County as:

= an *additional insured* on the Contractor's Commercial General Liability, Automobile Liability and Excess/Umbrella Liability insurance policies; and

= a *named insured* on the Owners & Contractors Protective Liability Insurance policy.

III. The policy/policies of insurance furnished by the Contractor shall:

= be from an A.M. Best rated "A" New York State licensed insurer; and

= contain a 30-day notice of cancellation

IV. The Contractor agrees to indemnify the County for any applicable deductibles.

V. Contractor acknowledges that failure to obtain such insurance on behalf of the County constitutes a material breach of contract and subjects it to liability for damages, indemnification and all other legal remedies available to the County. Prior to commencement of work or use of facilities, the Contractor shall provide to the County proof that such requirements have been met by furnishing certificate(s) of such insurance, and the declarations pages from the policies of such insurance. The failure of the County to object to the contents of the certificate(s) and/or declarations pages, or the absence of same, shall not be deemed a waiver of any and all rights held by the County.

VI. All certificates of insurance will provide 30 days notice to the county of cancellation or non-renewal.

VII. Contractor and subcontractor waives all rights of subrogation against the owner and will have the General Liability, Umbrella Liability Workers' Compensation policies endorsed setting forth this Waiver of subrogation.

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APPENDIX *D - STANDARD CLAUSES FOR ESSEX COUNTY CONTRACTS*

1. ***Independent Contractor Status***

The parties each acknowledge, covenant and agree that the relationship of the Contractor to the County shall be that of an independent contractor. The Contractor, in accordance with its status as an independent contractor, further covenants and agrees that it:

(a) will conduct itself in accordance with its status as an independent contractor;

(b) will neither hold itself out as nor claim to be an officer or employee of the County; and

(c) will not make any claim, demand or application for any right or privilege applicable to an officer or employee of the County, including but not limited to workers' compensation benefits, unemployment insurance benefits, social security coverage or retirement membership or credits.

2. ***Contractor To Comply With Laws/Regulations***

The Contractor shall at all times comply with all applicable state and federal laws, rules and regulations governing the performance and rendition of the services to be furnished under this agreement.

3. ***Licenses, Permits, Etc.***

The Contractor shall, during the term of this agreement, obtain and keep in full force and effect any and all licenses, permits and certificates required by any governmental authority having jurisdiction over the rendition and performance of the services to be furnished by the Contractor under this agreement.

4. ***Omitted***

OMITTED

5. ***Defense & Indemnification***

The Contractor shall defend, indemnify and hold harmless the County to the fullest extent allowed by law, and notwithstanding any insurance requirements, from and against any and all liability, losses, claims, actions, demands, damages, expenses, suits, judgments, orders, causes of action and claims, including but not limited to attorney's fees and all other costs of defense, by reason of any liability whatsoever imposed by law or otherwise upon the County for damages to person, property or of any other kind in nature, including by not limited to those for bodily injury, property damage, death arising out of or in connection with its officers, employees, agents, contractors, sub-contractors, guests or invitees negligence or

its/their performance or failure to perform this agreement.

6. ***Discrimination Prohibited***

The services to be furnished and rendered under this agreement by the Contractor shall be available to any and all residents of Essex County without regard to race, color, creed, sex, religion, national or ethnic origin, handicap, or source of payment; and under no circumstances shall a resident's financial ability to pay for the services provided be considered unless such consideration is allowed by State and/or Federal law, rule or regulation.

7. ***Non-Discrimination In Employment***

The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, national origin, age, disability or marital status. In the event that this is a contract to be performed in whole or in part within the State of New York for (a) the construction, alteration or repair of any public building or public work, (b) for the manufacture, sale or distribution of materials, equipment or supplies, (c) for building service, the Contractor agrees that neither it nor its subcontractors shall, by reason of race, creed, color, disability, sex or national origin:

(1) discriminate in hiring against any citizen who is qualified and available to perform the work; or

(2) discriminate against or intimidate any employee hired for the performance of work under this contract.

The Contractor agrees to be subject to fines of $50.00 per person per day for any violation of this paragraph, as well as to possible termination of this contract or forfeiture of all moneys due hereunder for a second or subsequent violation.

8. ***Damage/Injury To Persons & Property***

The Contractor shall promptly advise the County of all damages to property of the County or of others, or of injuries incurred by persons other than employees of the Contractor, in any manner relating, either directly or indirectly, to the performance of this agreement.

9. ***Records***

The Contractor shall establish and maintain complete and accurate books, records, documents, accounts and other evidence directly pertinent to performance under this contract (hereinafter collectively "the Records") in accordance with the following requirements:

(a) the Records must be kept for the balance of the calendar year in which they were made and for six (6) additional years thereafter;

(b) the County Auditor, State Comptroller, the Attorney General or any other person or entity authorized to conduct an examination, as well as the agency or agencies involved in this contract, shall have access to the Records during normal business hours at an office of the Contractor within the State of New York, or, if no such office is available, at a mutually agreeable and reasonable venue within the State, for the term specified above for the purposes of inspection, auditing and copying.

The County shall take reasonable steps to protect from public disclosure any of the records which are exempt from disclosure under Section 87 of the Public Officers Law (the "Statute") provided that: (i) the Contractor shall timely inform an appropriate County official, in writing, that said records should not be disclosed; and (ii) said records shall be sufficiently identified and designation of said records as exempt under the statute is reasonable. Nothing

contained herein shall diminish, or in any way adversely affect, the County's right to discovery in any pending or future litigation.

10. ***Claims For Payment***

All invoices or claims for which payment is sought from the County must be submitted in accordance with the following:

(a) each claim for payment must include
  (1) an invoice detailing the claim,
  (2) copies of all documentation supporting the claim,
  (3) a properly completed County standard voucher, which includes
    (i) the County contract number under which payment is being claimed, ***AND***
    (ii) the payee's Federal employer identification number or Federal social security number, or both such numbers when the payee has both such numbers. *[Failure to include this number or numbers will prevent and preclude payment by the County; except that where the payee does not have such number or numbers, the payee, on the invoice or County voucher, must give the reason or reasons why the payee does not have such number or numbers and such reasons constitute a valid excuse under law.]*

(b) Unless otherwise provided in this agreement, each claim for payment must be submitted to the County no later than 30 days after the work, labor, materials, and/or services for which payment is claimed were rendered or furnished.

(c) Notwithstanding any other provision of this agreement, no claim for payment shall be valid, and the County shall not be liable for payment thereof, unless it is submitted to the County within 30 days of the close of the calendar year in which the work, labor, materials, and/or services for which payment is claimed were rendered or furnished.

(d) Unless otherwise provided in this agreement, the requirements of this paragraph 10, and/or of any other provisions of this agreement which supersede the same, shall constitute conditions precedent to the County's payment obligation, and failure to comply with any or all of said requirements shall entitle the County to deny payment.

(e) As a further condition of payment, each claim of payment shall be accompanied by a Contractor and Sub-Contractor Progress Payment Waiver, Release and Discharge, and each Final Payment shall be accompanied by a Contractor and Sub-Contractor Final Payment, Waiver and Release form. As well as a Contractor Affidavit relative to Final Payment. Copies of these forms are attached and made a part hereof.

11. ***Consent***

In the event that State or Federal law requires the recipient of services to be furnished and rendered under this agreement to give his/her prior consent thereto, the contractor shall obtain such person's consent and furnish proof thereof to the County.

12. ***Executory Clause***

The County shall have no liability under this contract to the Contractor or to anyone else beyond the funds appropriated and available for this contract.

13. ***Public Work & Building Service Contract Requirements***

If this is a public work contract covered by Article 8 of the Labor Law or a building service contract covered by Article 9 thereof:

(a) neither the Contractor's employees nor the employees of its subcontractors may be required or permitted to work more than the number of hours or days stated in said

statutes, except as otherwise provided in the Labor Law and as set forth in prevailing wage and supplement schedules issued by the State Labor Department; and

(b) the Contractor and its subcontractors must pay at least the prevailing wage rate and pay or provide the prevailing supplements, including the premium rates for overtime pay, as determined by the State Labor Department in accordance with the Labor Law.

14. ***Public Work Contracts – Hazardous Substances***

If this is a contract for public work, the Contractor agrees as follows:

(a) the Contractor acknowledges that the County uses and/or produces various substances which may be classified as hazardous under OSHA's Hazard Communication Standard;

(b) the Contractor recognizes the use of said substances by the County and acknowledges that the County has provided, or upon request will provide, the Contractor with a description of such substances which may be present in the area of the County's facility/facilities to which the Contractor may have accessed during the performance of this contract;

(c) the Contractor acknowledges that the County has provided, or upon request will provide, suggestions for appropriate protective measures which should be observed when the Contractor is in the area of any such hazardous substances;

(d) the Contractor agrees to be solely responsible for providing training and information to its employees regarding any such hazardous substances, as well as of any protective measures suggested by the County;

(e) the Contractor agrees to be solely responsible to ensure that the Contractor's employees observe protective measures during the performance of their duties in the performance of the contract, and that all such protective measures will be at least as stringent as those suggested or which would have been suggested by the County;

(f) in the event that the Contractor's performance of the work under this contract requires the use of any hazardous substances, the Contractor shall notify the County in advance of bringing in and/or using such substances in or upon County property and suggest to the County appropriate measures to be observed by the County, its officers and employees, and/or the public; and

(g) in the event the Contractor fails in whole or in part to comply with the terms of this paragraph, the County shall have the right to interrupt the Contractor's work and/or terminate this contract, and the Contractor shall be prohibited from renewing such work until all applicable safety and health procedures and practices are implemented by the Contractor.

15. ***Disputes***

Disputes involving this contract, including the breach or alleged breach thereof, may not be submitted to binding arbitration, but must, instead, by heard in a court of competent jurisdiction within the State of New York.

16. ***Non-Assignment***

This agreement may not be assigned, subcontracted, transferred, conveyed, sublet or otherwise disposed of in whole or in part, by the Contractor, without the prior written consent of the County, and any attempts to assign the contract without the County's written consent are null and void.

17. ***No Collusion***

If this contract was awarded based upon the submission of bids, the Contractor

warrants, under penalty of perjury, that:

(a) its bid was arrived at independently and without collusion aimed at restricting competition; and

(b) at the time Contractor submitted its bid, an authorized and responsible person executed and delivered to the County a non-collusive bidding certification on Contractor's behalf.

18. ***International Boycott***

In accordance with Section 220-f of the Labor Law, if this contract exceeds $5,000.00, the Contractor agrees, as a material condition of the contract, that neither the Contractor nor any substantially owned or affiliated person, firm, partnership or corporation, has participated, is participating, or shall participate in an International boycott in violation of the federal Export Administration Act of 1979, or regulations thereunder. If such contractor, or any of the aforesaid affiliates of Contractor, is convicted, or is otherwise found to have violated said laws or regulations upon the final determination of the United States Commerce Department or any other appropriate agency of the United States subsequent to the contract's execution, such contract, amendment or modification thereto shall be rendered forfeit and void. The Contractor shall so notify the County Manager within five (5) business days of such conviction, determination or disposition of appeal.

19. ***County's Rights of Set-Off***

The County shall have all of its common law, equitable and statutory rights of set-off. These rights shall include, but not be limited to, the County's option to withhold for the purposes of set-off any moneys due to the Contractor under this agreement up to any amounts due and owing to the County with regard to this contract, any other contract with any County department or agency, including any contract for a term commencing prior to the term of this contract, plus any amounts due and owing to the County for any other reason, including, without limitation, tax delinquencies, fee delinquencies or monetary penalties relative thereto. The County shall exercise its set-off rights in accordance with normal County practices, including, in cases of set-off pursuant to an audit, the acceptance of such audit by the County Board of Supervisors or its designated representative.

20. ***Contractor Defined***

Whenever the term "Contractor" is used in this agreement, such term shall include and apply to all employees, all officers, directors and agents, if any, of the Contractor.

21. ***Amendment***

This agreement may not be amended, modified or renewed except by written agreement signed by the Contractor and the County.

22. ***Ownership Of Work Products***

All final and written or tangible work products completed by the Contractor shall belong to the County. In the event of premature discontinuance of performance, the Contractor agrees to deliver all existing products and data files to the County.

23. ***Executive Order Debarment/Suspension***

In the event that this contract involves the Contractor furnishing goods and services in excess of $100,000.00, or constitutes a subaward to subrecipients, under any Federal program, grant or other funding source, then by executing this agreement the Contractor certifies that neither it nor any of its principals are suspended or debarred within the scope or

meaning of Executive Orders 12549 and 12689, any Federal or State regulation implementing or codifying the same, or any other Federal or State law, rule or regulation.

24. ***Health Insurance Portability and Accountability Act of 1996 (HIPAA)***

In the event that this contract involves the use or disclosure of protected health information within the meaning or application of the Health Insurance Portability and Accountability Act of 1996 (HIPAA), and the regulations thereunder, the following provisions of this paragraph shall apply.

(a) *Definitions.* The terms used, but not otherwise defined, in this Agreement shall have the same meaning as given such terms in 45 CFR §160.103 and §164.501, as the same may be amended from time to time, including but not limited to the following.

(1) "Business Associate" shall mean the Contractor, its officers, employees, agents and subcontractors.

(2) "Covered Entity" shall mean Essex County (the "County"), its departments, agencies, officers and employees.

(3) "Individual" shall have the same meaning as given such term in 45 CFR §164.501 and shall also include a person who qualifies as a personal representative in accordance with 45 CFR §164.502(g).

(4) "Privacy Rule" shall mean the Standards for Privacy of Individually Identifiable Health Information at 45 CFR Part 160 and Part 164, subparts A and E.

(5) "Protected Health Information" shall have the same meaning as given such term in 45 CFR §164.501, limited to the information created or received by Contractor from or on behalf of the County.

(6) "Required by law" shall have the same meaning as given such term in 45 CFR §164.501.

(7) "Secretary" shall mean the Secretary of the Department of Health and Human Services or his/her designee.

(b) *Obligations and Activities of Contractor.*

Contractor agrees to:

(1) not use or disclose Protected Health Information other than as permitted or required by this Agreement or as required by law;

(2) use appropriate safeguards to prevent use or disclosure of the Protected Health Information other than as provided for by this Agreement;

(3) mitigate, to the extent practicable, any harmful effect that is known, should have been known, and/or discovered to/by Contractor of a use or disclosure of Protected Health Information by Contractor in violation of the requirements of this Agreement;

(4) report to the County any use or disclosure of the Protected Health Information not provided for by this Agreement of which it becomes aware;

(5) ensure that any agent, including a subcontractor, to whom it provides Protected Health Information received from, or created or received by Contractor on behalf of the County agrees to the same restrictions and conditions that apply through this Agreement to Contractor with respect to such information;

(6) provide access, at the request of the County, and in the time and manner designated by the County or the Secretary, to Protected Health Information in a Designated Record Set, to the County or, as directed by the County, to an Individual in order to meet the requirements under 45 CFR §164.524;

(7) make any amendment(s) to Protected Health Information in a Designated Record

Set that the County directs or agrees to pursuant to 45 CFR §164.526 at the request of the County or an Individual, and in the time and manner designated by the County or the Secretary;

(8) make internal practices, books, and records, including policies and procedures and Protected Health Information, relating to the use and disclosure of Protected Health Information received from, or created or received by Contractor on behalf of, the County available to the County, and/or to the Secretary, in a time and manner designated by the County or by the Secretary, for purposes of the Secretary determining the County's compliance with the Privacy Rule;

(9) document such disclosures of Protected Health Information and information related to such disclosures as would be required for the County to respond to a request by an Individual for an accounting of disclosures of Protected Health Information in accordance with 45 CFR §164.528;

(10) provide to the County or an Individual, in time and manner designated by the County or the Secretary, information collected in accordance with the above subparagraph (b)(9) of this Agreement, to permit the County to respond to a request by an Individual for an accounting of disclosures of Protected Health Information in accordance with 45 CFR §164.528.

(c) *Permitted Uses and Disclosures by Contractor.*

Except as otherwise limited in this Agreement, Contractor may use or disclose Protected Health Information on behalf of, or to provide services to, the persons entitled to services under this Agreement:

(1) solely for the purposes of performing Contractor's obligations under this Agreement, if such use or disclosure of Protected Health Information would not violate the Privacy Rule if done by the County or the minimum necessary policies and procedures of the County; or

(2) provided that such use or disclosures are required by law; or

(3) Contractor

(A) obtains written authorization(s) from the individual to which the information pertains permitting the specific uses or disclosures of such information to third persons,

(B) represents and agrees in writing with such individual that the information to be used and/or disclosed will remain confidential and used or further disclosed only as required by law or for the purposes specified in the written authorization(s), and

(C) such third persons agree in writing to notify the County as soon as practicable and in writing of any instances of which such third person(s) is/are aware in which the confidentiality of the information has been breached; or

(4) provide Data Aggregation services to the County as permitted by 42 CFR §164.504(e)(2)(i)(B); or

(5) report violations of law to appropriate Federal and State authorities, consistent with §164.502(j)(1).

(d) *County To Inform Contractor of Privacy Practices and Restrictions.*

The County agrees to notify the Contractor of any

(1) limitation(s) in its notice of privacy practices of the County in accordance with 45 CFR §164.520, to the extent that such limitation may affect the Contractor's use or disclosure of Protected Health Information;

(2) changes in, or revocation of, permission by Individual to use or disclose Protected Health Information, to the extent that such changes may affect the Contractor's use or disclosure of Protected Health Information; and/or

(3) restriction to the use or disclosure of Protected Health Information that the County has agreed to in accordance with 45 CFR §164.522, to the extent that such restriction may affect Contractor's use or disclosure of Protected Health Information.

(e) *Permissible Requests by County.*

The County shall not request Contractor to use or disclose Protected Health Information in any manner that would not be permissible under the Privacy Rule if done by the County; except that in the event that the services to be furnished by the Contractor under this Agreement requires data aggregation by the Contractor, the Contractor may use or disclose protected health information for such data aggregation or management and administrative activities of Contractor.

(f) *Survival of Provisions.*

The obligations of the Contractor under this paragraph 24 shall survive the expiration of the term of this Agreement and/or the termination of this Agreement, and said obligations shall remain effective and shall not terminate until all of the Protected Health Information provided by the County to Contractor, or created or received by Contractor on behalf of the County, is destroyed or returned to the County, or, if it is infeasible to return or destroy Protected Health Information, protections are extended to such information, in accordance with the termination provisions in subparagraph (g) below.

(g) *Return or Destruction of Protected Health Information.*

Except as otherwise provided below, upon termination of this Agreement for any reason, Contractor shall return or destroy all Protected Health Information received from the County, or created or received by Contractor on behalf of the County. This provision shall apply to Protected Health Information that is in the possession of subcontractors or agents of Contractor. Contractor shall retain no copies of the Protected Health Information.

In the event that Contractor determines that returning or destroying the Protected Health Information is infeasible, Contractor shall provide to the County notification of the conditions that make return or destruction infeasible. Upon determination by the County that return or destruction of Protected Health Information is infeasible, Contractor shall extend the protections of this Agreement to such Protected Health Information and limit further uses and disclosures of such Protected Health Information to those purposes that make the return or destruction infeasible, for so long as Contractor maintains such Protected Health Information.

(h) *Termination for Cause.*

Upon the County's knowledge of a material breach of this paragraph by Contractor, the County shall:

(1) either:

(A) provide an opportunity for Contractor to cure the breach or end the violation and terminate this Agreement within the time specified by the County, or

(B) immediately terminate this Agreement if cure is not possible; and

(2) report the violation to the Secretary.

(I) *Miscellaneous.*

(1) Regulatory References. A reference in this Agreement to a section in the Privacy

Rule means the section as in effect or as amended.

(2) Amendment. The Parties agree to take such action as is necessary to amend this Agreement from time to time as is necessary for the County to comply with the requirements of the Privacy Rule and the Health Insurance Portability and Accountability Act of 1996, Pub. L. No. 104-191.

(3) Survival. The respective rights and obligations of Contractor under this paragraph 24 of this Agreement shall survive the termination of this Agreement.

(4) Interpretation. Any ambiguity in this Agreement shall be resolved to permit the County to comply with the Privacy Rule.

25. ***Severability***

If any term or provision of this agreement or the application thereof to any person or circumstance shall to any extent be held invalid or unenforceable, the remainder of this agreement or the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected thereby and every other term and provision of this agreement shall be valid and be enforced to the fullest extent permitted by law.

26. ***Entire Agreement***

This agreement is the entire agreement between the parties, and the same shall be construed in accordance with the laws of the State of New York.

27. ***For Medicaid/Federal Health Care Related Work***

Excluded/Debarred Party Clause

The Vendor/Contractor represents and warrants that it, nor its employees or contractors, are not excluded from participation, and is not otherwise ineligible to participate, in a "federal health care program" as defined in 42 U.S.C. § 1320a-7b(f) or in any other government payment program.

In the event Vendor/Contractor, or one of it employees or contractors, is excluded from participation, or becomes otherwise ineligible to participate in any such program during the Term, Vendor/Contractor will notify Essex County in writing within three (3) days after such event. Upon the occurrence of such event, whether or not such notice is given to the Vendor/Contractor, Essex County reserves the right to immediately cease contracting with the Vendor/Contractor.

If Vendor/Contractor is an Employment Agency, the Vendor/Contractor represents and warrants that its employees and contractors are not excluded from participation in a "federal health care program" as defined in 42 U.S.C. § 1320a-7b(f) or debarred from participation in any federal or other program.

The Vendor/Contractor further represents and warrants it will, at a minimum, check monthly all of it employees and subcontractors against:

The General Services Administration's Federal Excluded Party List System (or any successor system,

The United States Department of Health and Human Service's Office of the Inspector General's Lists of Excluded Individuals and Entities or any successor list,

The New York State Department of Health's Office of the Medicaid Inspector General's

list of Restricted, Terminated or Excluded Individuals or Entities.
In the event an excluded party is discovered the Vendor/Contractor will notify Essex County in writing within three (3) days after such event. Upon the occurrence of such event, whether or not such notice is given to the Vendor/Contractor, Essex County reserves the right to immediately cease contracting with the Vendor/Contractor.

CONTRACTOR PROGRESS PAYMENT WAIVER, RELEASE AND DISCHARGE

PROJECT: _____

OWNER: ESSEX COUNTY

CONTRACTOR: _____

WITNESSETH:

The above-named Contractor, hereinafter referred to as the "Releasor", does, for and on behalf of itself, its' successors, assigns and all parties claiming any interest or right through the Releasor, hereby warrant, covenant and agree as follows:

1. Releasor is/was a Contractor relative to the above-referenced Project pursuant to a contract or other relationship for the performing and/or furnishing of work, labor, services, materials and/or equipment at the Project site or to be incorporated in said Project.

2 Whenever the term "Releasor" is used in this instrument such term shall mean: (a) the above-named Contractor, its, successors and assigns; (b) any and all sureties and all other guarantors of the Releasor on any payment, performance, labor and/or material bond or other undertaking; (c) all parties claiming any interest or right through the Releasor, including but not limited to subcontractors and suppliers; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

3. Whenever the term "Releasees" is used in this instrument such term shall mean: (a) the above-named Owner, its' successors and assigns; (b) the Project Architect/Engineer; and (c) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a) and (b).

4. For and in consideration of the sum of $_____, and other good and valuable consideration, which sum is acknowledged as being the full and total amount due or allegedly due or owing from the Releasees to the Releasor as of the date hereof, and the receipt of such payment being hereby acknowledged, the Releasor does waive, release and discharge the Releasees from any and all causes of action, suits, debts, claims, liens, accounts, bonds, contracts, damages, encumbrances, judgments and demands whatsoever and of every kind and nature, in law or in equity, which against the Releasees, jointly and/or severally, the Releasor ever had, now has, or might hereafter have, relating directly or indirectly to the work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or incorporated or to be incorporated in said Project, as of the date hereof, including but not in any manner limited to the right of the Releasor to assert, file or claim any lien or other security interest in or upon the real and/or personal property of the Releasees.

5. The Releasor hereby agree to defend, indemnify, and hold harmless the Releasees from any and all damages, costs, expenses, demands, suits, liens and legal fees, directly or indirectly relating to any claim for compensation by any other party for work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or which should have been so furnished or performed, or incorporated or to be incorporated in said Project, as of the date hereof, by the Releasor or by any other party claiming any interest or right through the

Releasor.

6. The Releasor hereby certifies and warrants that it has fully paid for all work, labor, services, materials and/or equipment provided to it in connection with the Project and/or any contract relating thereto.

7. The Releasor hereby grants to the Releasees the right to review and audit any and books and records of the Releasor at any time for verification.

IN WITNESS WHEREOF this instrument has been executed this ___ day of _____ _____, 20__.

_____
Releasor

By:_____

_____
(Print Name)

_____
(Title)

STATE OF NEW YORK)
) SS:
COUNTY OF_____)

I, _____, being duly sworn, depose and say that: I reside at _____ _____, and I hereby sign this instrument under penalty of perjury; I am the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of the Releasor; and I hereby affirm that the statements contained in this instrument are true and correct.

_____
Vendor/Releasor Agent Sign Here

Sworn to before me this ____
day of _____, 20__.

_____
Notary Public

CONTRACTOR FINAL PAYMENT WAIVER, RELEASE AND DISCHARGE

PROJECT: _____

OWNER: ESSEX COUNTY

CONTRACTOR: _____

W I T N E S S E T H :

The above-named Contractor, hereinafter referred to as the "Releasor", does, for and on behalf of itself, its' successors, assigns and all parties claiming any interest or right through the Releasor, hereby warrants, covenants and agrees as follows:

1. Releasor is/was a Contractor relative to the above-referenced Project pursuant to a contract or other relationship for the performing and/or furnishing of work, labor, services, materials and/or equipment at the Project site or to be incorporated in said Project.

2 Whenever the term "Releasor" is used in this instrument such term shall mean: (a) the above-named Contractor, its, successors and assigns; (b) any and all sureties and all other guarantors of the Releasor on any payment, performance, labor and/or material bond or other undertaking; (c) all parties claiming any interest or right through the Releasor, including but not limited to subcontractors and suppliers; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

3. Whenever the term "Releasees" is used in this instrument such term shall mean: (a) the above-named Owner, its' successors and assigns; (b) Essex County, its agencies and departments (including but not limited to its Office for the Aging); and (c) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a) and (b).

4. For and in consideration of the sum of $_____, and other good and valuable consideration, which sum is acknowledged as being the full, final and total amount due or allegedly due or owing from the Releasees to the Releasor as of the date hereof, and the receipt of such payment being hereby acknowledged, the Releasor does waive, release and discharge the Releasees from any and all causes of action, suits, debts, claims, liens, accounts, bonds, contracts, damages, encumbrances, judgments and demands whatsoever and of every kind and nature, in law or in equity, which against the Releasees, jointly and/or severally, the Releasor ever had, now has, or might hereafter have, relating directly or indirectly to the work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or incorporated or to be incorporated in said Project, as of the date hereof, including but not in any manner limited to the right of the Releasor to assert, file or claim any lien or other security interest in or upon the real and/or personal property of the Releasees.

5. The Releasor hereby agree to defend, indemnify, and hold harmless the Releasees from any and all damages, costs, expenses, demands, suits, liens and legal fees, directly or indirectly relating to any claim for compensation by any other party for work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or which should have been so furnished or performed, or incorporated or to be incorporated in said Project, as of the date hereof, by the

Releasor or by any other party claiming any interest or right through the Releasor.

6. The Releasor hereby certifies and warrants that it has fully paid for all work, labor, services, materials and/or equipment provided to it in connection with the Project and/or any contract relating thereto.

7. The Releasor hereby grants to the Releasees the right to review and audit any and books and records of the Releasor at any time for verification.

IN WITNESS WHEREOF this instrument has been executed this ____ day of _____, 20__.

_____
Contractor

By:_____

_____
(Print Name)

_____
(Title)

STATE OF NEW YORK)
) SS:
COUNTY OF ESSEX)

I, _____, being duly sworn, depose and say that: I reside at ____ _____, and I hereby sign this instrument under penalty of perjury; I am the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of the Releasor; and I hereby affirm that the statements contained in this instrument are true and correct.

_____
Vendor/Releasor Agent Sign Here

Sworn to before me this ____
day of _____, 20__.

_____
Notary Public

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CONTRACTORS AFFIDAVIT RELATIVE TO FINAL PAYMENT

PROJECT: _____

OWNER: ESSEX COUNTY

CONTRACTOR: _____

W I T N E S S E T H :

The herein below designated representative of the Contractor being duly sworn deposes and states:

1. He is duly authorized to sign this Affidavit on behalf of the Contractor.

2. That all payrolls, bills for materials and equipment, and other indebtedness connection with the work for which the County or the County's property might be responsible or encumbered have been paid or otherwise satisfied and there remain no further indebtedness or bills outstanding.

3. Attached hereto and made a part hereof is a valid certificate of insurance evidencing that insurance required by the contract documents will remain in full force after final payment is currently in effect and will not be cancelled or allowed to expire until at least 30 days prior written notice has been given to the owner.

4. Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the contract documents.

5. Attached hereto and made a part hereof at Schedule B is a detailed list of all sub-contractors and material suppliers.

6. Contractor warrants and represents that all sub-contractors, material suppliers and fringe benefit trust funds for employees of contractor and sub-contractors on the portion of the project encompassed by the work, as well as all workers and persons employed in connection therewith have been paid in full for all labor and work and materials furnished.

7. Contractor releases and waives any and all public improvement lien rights which contractor has against the County.

IN WITNESS WHEREOF, deponent has executed this document on ___ day of ____

_____, 20___.

_____
Contractor

By:_____

_____

(Print Name)

_____
(Title)

STATE OF NEW YORK)
) SS:
COUNTY OF ESSEX)

I, _____, being duly sworn, depose and say that: I reside at _____, and I hereby sign this instrument under penalty of perjury; I am the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of the Releasor; and I hereby affirm that the statements contained in this instrument are true and correct.

_____
Vendor/Releasor Agent Sign Here

Sworn to before me this ____
day of _____, 20___.

_____
Notary Public

00338

SUBCONTRACTOR/SUPPLIER PROGRESS PAYMENT WAIVER, RELEASE AND DISCHARGE

PROJECT: _____

OWNER: ESSEX COUNTY

CONTRACTOR: _____

SUBCONTRACTOR/SUPPLIER: _____

W I T N E S S E T H :

The above-named Subcontractor/Supplier, hereinafter referred to as the "Releasor", does, for and on behalf of itself, its, successors, assigns and all parties claiming any interest or right through the Releasor, hereby warrants, covenants and agrees as follows:

1. Releasor is/was a subcontractor/supplier to the Contractor above-named relative to the above-referenced Project pursuant to a contract or other relationship for the performing and/or furnishing of work, labor, services, materials and/or equipment at the Project site or to be incorporated in said Project.

2. Whenever the term "Releasor" is used in this instrument such term shall mean: (a) the above-named Subcontractor/Supplier, its' successors and assigns; (b) any and all sureties and all other guarantors of the Releasor on any payment, performance, labor and/or material bond or other undertaking; (c) all parties claiming any interest or right through the Releasor; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

3. Whenever the term "Releasees" is used in this instrument such term shall mean: (a) the above-named Contractor and all of its, sureties and other guarantors on any payment, performance, labor and/or material bond or other undertaking; (b) the abovenamed Owner, its, successors and assigns; (c) the Project Architect/Engineer; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

4. For and in consideration of the sum of $_____, and other good and valuable consideration, which sum is acknowledged as being the full and total amount due or allegedly due or owing from the Releasees to the Releasor as of the date hereof, and the receipt of such payment being hereby acknowledged, the Releasor does waive, release and discharge the Releasees from any and all causes of action, suits, debts, claims, liens, accounts, bonds, contracts, damages, encumbrances, judgments and demands whatsoever and of every kind and nature, in law or in equity, which against the Releasees, jointly and/or severally, the Releasor ever had, now has, or might hereafter have, relating directly or indirectly to the work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or incorporated or to be incorporated in said Project, as of the date hereof, including but not in any manner limited to the right of the Releasor to assert, file or claim any lien or other security interest in or upon the real and/or personal property of the Releasees.

5. The Releasor hereby agree to defend, indemnify, and hold harmless the Releasees from any and all damages, costs, expenses, demands, suits, liens and legal fees, directly or indirectly relating to any claim for compensation by any other party for work, labor, services, materials and/or

equipment furnished and/or performed at the Project site, or which should have been so furnished or performed, or incorporated or to be incorporated in said Project, as of the date hereof, by the Releasor or by any other party claiming any interest or right through the Releasor.

6. The Releasor hereby certifies and warrants that it has fully paid for all work, labor, services, materials and/or equipment provided to it in connection with the Project and/or any contract relating thereto.

7. The Releasor hereby grants to the Releasees the right to review and audit any and books and records of the Releasor at any time for verification.

IN WITNESS WHEREOF this instrument has been executed this ___ day of _____ _____, 20____.

_____
Releasor

By:_____

_____
(Print Name)

_____
(Title)

STATE OF NEW YORK)
) SS:
COUNTY OF ESSEX)

I, _____, being duly sworn, depose and say that: I reside at ____ _____, and I hereby sign this instrument under penalty of perjury; I am the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of the Releasor; and I hereby affirm that the statements contained in this instrument are true and correct.

_____
Vendor/Releasor Agent Sign Here

Sworn to before me this ____
day of _____, 20___

_____
Notary Public

SUBCONTRACTOR/SUPPLIER FINAL WAIVER, RELEASE AND DISCHARGE

PROJECT:_____

OWNER: ESSEX COUNTY

CONTRACTOR: _____

SUBCONTRACTOR/SUPPLIER: _____

W I T N E S S E T H :

The above-named Subcontractor/Supplier, hereinafter referred to as the "Releasor", does, for and on behalf of itself, its, successors, assigns and all parties claiming any interest or right through the Releasor, hereby warrants, covenants and agrees as follows:

1. Releasor is/was a subcontractor/supplier to the Contractor above-named relative to the above-referenced Project pursuant to a contract or other relationship for the performing and/or furnishing of work, labor, services, materials and/or equipment at the Project site or to be incorporated in said Project.

2. Whenever the term "Releasor" is used in this instrument such term shall mean: (a) the above-named Subcontractor/Supplier, its' successors and assigns; (b) any and all sureties and all other guarantors of the Releasor on any payment, performance, labor and/or material bond or other undertaking; (c) all parties claiming any interest or right through the Releasor; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

3. Whenever the term "Releasees" is used in this instrument such term shall mean: (a) the above-named Contractor and all of its, sureties and other guarantors on any payment, performance, labor and/or material bond or other undertaking; (b) the abovenamed Owner, its, successors and assigns; (c) the Project Architect/Engineer; and (d) the respective officers, directors, principals, shareholders, agents, employees and attorneys of (a), (b) and (c).

4. For and in consideration of the sum of $_____, and other good and valuable consideration, which sum is acknowledged as being the full, final and total amount due or allegedly due or owing from the Releasees to the Releasor as of the date hereof, and the receipt of such payment being hereby acknowledged, the Releasor does waive, release and discharge the Releasees from any and all causes of action, suits, debts, claims, liens, accounts, bonds, contracts, damages, encumbrances, judgments and demands whatsoever and of every kind and nature, in law or in equity, which against the Releasees, jointly and/or severally, the Releasor ever had, now has, or might hereafter have, relating directly or indirectly to the work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or incorporated or to be incorporated in said Project, as of the date hereof, including but not in any manner limited to the right of the Releasor to assert, file or claim any lien or other security interest in or upon the real and/or personal property of the Releasees.

5. The Releasor hereby agree to defend, indemnify, and hold harmless the Releasees from any and all damages, costs, expenses, demands, suits, liens and legal fees, directly or indirectly relating to any claim for compensation by any other party for work, labor, services, materials and/or equipment furnished and/or performed at the Project site, or which should have been so furnished or performed, or incorporated or to be incorporated in said Project, as of the date hereof, by the Releasor or by any other party claiming any interest or right through the Releasor.

6. The Releasor hereby certifies and warrants that it has fully paid for all work, labor, services, materials and/or equipment provided to it in connection with the Project and/or any contract relating thereto.

7. The Releasor hereby grants to the Releasees the right to review and audit any and books and records of the Releasor at any time for verification.

IN WITNESS WHEREOF this instrument has been executed this ___ day of ____ _____, _____.

_____
Releasor

By:_____

_____
(Print Name)

_____
(Title)

STATE OF NEW YORK)
) SS:
COUNTY OF ESSEX)

I, _____, being duly sworn, depose and say that: I reside at ____ _____, and I hereby sign this instrument under penalty of perjury; I am the of the Releasor identified herein; I am fully authorized to execute this instrument on behalf of the Releasor; and I hereby affirm that the statements contained in this instrument are true and correct.

_____
Vendor/Releasor Agent Sign Here

Sworn to before me this ____
day of _____, 20__.

_____
Notary Public

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ESSEX COUNTY

Office of the Purchasing Agent
7551 Court Street, P.O. Box 217
Elizabethtown, NY 12932
518-873-3330/Fax 518-873-3339

GENERAL SPECIFICATIONS FOR PROCUREMENT CONTRACTS

Adopted May 20, 1999.

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PART I
General Provisions

1. APPLICABILITY The terms and conditions set forth herein are expressly incorporated in and applicable to all procurements and resulting procurement contracts let by the Office of the Essex County Purchasing Agent where incorporated by reference in its Bid Documents. The provisions herein shall govern such procurement or contract unless expressly modified or amended by the terms of a Bid Specifications, or a negotiated Contract/Clarification document, if any. Captions are intended as descriptive and are not intended to limit or otherwise restrict the terms and conditions set forth herein.

2. GOVERNING LAW The laws of the State of New York shall govern and apply to the procurement, any resulting contract and for determinations in a court of competent jurisdiction in New York of any and all disputes, litigation or interpretations arising from or connected with the procurement or contract, except where expressly superseded in a specific contract letting or where the Federal supremacy clause requires otherwise. These specifications are modeled after and upon the specifications developed and used by the New York State Office of General Services for procurements by New York State.

3. APPENDIX A / INSURANCE The mandatory terms for all Essex County contracts are expressly incorporated herein and in all bid documents and/or resulting contracts, such terms being set forth in Appendix A *(Standard Clauses for Essex County Contracts).* Insurance requirements are also attached and incorporated herein.

4. ETHICS COMPLIANCE All Bidders/Contractors and their employees must comply with the requirements of the *General Municipal Law,* the *Public Officers Law,* and other State codes, rules and regulations establishing ethical standards for the conduct of business with New York State and/or municipalities. In signing the bid, Bidder certifies full compliance with those provisions for any present or future dealings, transactions, sales, contracts, services, offers, relationships, etc., involving Essex County and/or its employees. Failure to comply with those provisions may result in disqualification from the bidding process, termination of contract, and/or other civil or criminal proceedings as required by law.

5. CONFLICT OF CLAUSES Conflicts between procurement or contract documents shall be resolved in the following order of precedence:

(a) **Appendix A** *(Standard Clauses for Essex County Contracts)*

(b) **Contract/Clarification Documents** Writing(s) setting forth the final agreements, clarifications, terms, statement of work and/or modifications between the Bid Documents and Contractors Bid or Mini-bid.

(c) **Bid Documents** - Bid Specifications prepared by Essex County

(d) **Contractors Bid or Proposal**

6. DEFINITIONS

Terms used in this document shall have the following meanings:

AGENCY OR AGENCIES Essex County, New York, acting by or through one or more departments, boards, commissions, offices or institutions of Essex County.

ANCILLARY PRODUCT: Product which is purchased or licensed on a restricted use basis in conjunction with the principal manufacturers Product being acquired (e.g. may be used only in combination, or by educational institutions for research use).

AUTHORIZED USER(S) Agencies, or any other entity authorized by Essex County to participate in Essex County procurement contracts (including but not limited to political subdivisions, public authorities, school districts and public benefit corporations), provided that each such Agency or other entity shall be held solely responsible for liabilities or payments due as a result of its participation. The term "Authorized User" shall include "Licensees."

BID OR BID PROPOSAL An offer or proposal submitted by a Bidder to furnish a described product or a solution or means of achieving a practical end, at a stated price for the stated contract term.

BIDDER Any individual or other legal entity, (including but not limited to partnership, firm or corporation) which submits a bid in response to a Bid Solicitation. The term Bidder shall also include "offeror" and/or "contractor".

BID DOCUMENTS Writings setting forth the scope, terms, conditions and technical specifications for a procurement of Product. Such writings typically include, but are not limited to: Invitation for Bids (IFB), Request for Quotation (RFQ), Request for Proposals (RFP), addenda or amendments thereto, and terms and conditions which are incorporated by reference, e.g. Appendix A *(Standard Clauses for NYS Contracts),* Appendix B, *(General Specifications).* Where these General Specifications are incorporated in negotiated contracts which have not been competitively bid, the term "Bid Documents" shall be deemed to refer to the terms and conditions set forth in the negotiated contract.

BID SOLICITATION The notice or advertisement of an intent to purchase a specified Product by or on behalf of Authorized User(s).

BID SPECIFICATION A written description drafted by Essex County or an authorized user setting forth the specific terms of the intended procurement, which may include: physical or functional characteristics, the nature of a commodity or construction item, any description of the work to be performed, Products to be provided, the necessary qualifications of the Bidder, the capacity and capability of the Bidder to successfully carry out the proposed contract, or the process for achieving specific results and/or anticipated outcomes or any other requirement necessary to perform work. Where these *General Specifications* are incorporated in negotiated contracts which have not been competitively bid, the term "Bid Specifications" shall be deemed to refer to the terms and conditions set forth in the negotiated contract.

CONTRACT The writing(s) which contain the agreement of the Commissioner and the Bidder/Contractor setting forth the total legal obligation between the parties as determined by applicable rules of law.

CONTRACT AWARD NOTIFICATION An announcement to Authorized Users that a contract has been established.

CONTRACTOR Any successful Bidder(s) to whom a contract has been awarded by the Purchasing Agent. The term "Contractor" includes Licensors.

COUNTY Essex County, New York.

EMERGENCY An urgent and unexpected requirement where health and public safety or the conservation of public resources is at risk.

ERROR CORRECTIONS Machine executable software code furnished by Contractor which corrects the Product so as to conform to the applicable warranties, performance standards and/or obligations of the Contractor.

GROUP A classification of Product (commodities, services or technology).

INVITATION FOR BIDS (IFB) A type of Bid Document which is most typically used where requirements can be stated and award will be made to the lowest responsive bid submitted by the most responsible Bidder(s).

LATE BID For purposes of bid openings held and conducted by the Essex County Purchasing Agent, a bid not received in such place as may be designated on the Bid Specifications or in the Office of the Essex County Purchasing Agent, at or before the date and time established in the Bid Specifications for the bid opening.

LETTER OF ACCEPTANCE A letter to the successful Bidder(s) indicating acceptance of its bid in response to a solicitation. Unless otherwise specified, the issuance of a Letter of Acceptance forms a contract but is not an order for Product, and Contractor should not take any action with respect to actual contract deliveries except on the basis of Purchase Orders sent from Authorized User(s).

LICENSED SOFTWARE Software transferred upon the terms and conditions set forth in the Contract. "Licensed Software" includes ancillary products, error corrections, upgrades, enhancements or new releases, and any deliverables due under a maintenance or service contract (e.g. patches, fixes, PTFs, programs, code or data conversion, or custom programming).

LICENSEE The County, or one or more Agencies or Authorized Users who acquire Product from Contractor by execution of a license in accordance with the terms and conditions of the Contract; provided that, for purposes of compliance with an individual license, the term "Licensee" shall be deemed to refer separately to the individual Authorized User(s) on whose behalf the license was executed who took receipt of the Product, and who shall be solely responsible for performance and liabilities incurred.

LICENSOR A Contractor who transfers rights in proprietary Product to Authorized Users in accordance with the rights and obligations specified in the Contract.

MULTIPLE AWARD A determination and award of a contract in the discretion of the Purchasing Agent to more than one responsive and responsible Bidder who meets the requirements of a specification, where the multiple award is made on the grounds set forth in the Bid Document in order to satisfy multiple factors and needs of Authorized Users (e.g., complexity of items, various manufacturers, differences in performance required to accomplish or produce required end results, production and distribution facilities, price, compliance with delivery requirements, geographic location or other pertinent factors).

NEW PRODUCT RELEASES (Product Revisions) Any commercially released revisions to the version of a Product as may be generally offered and available to Authorized Users. New releases involve a substantial revision of functionality from a previously released version of the Product.

PROCUREMENT RECORD Documentation by the Essex County Purchasing Agent of the decisions made and approach taken during the procurement process.

PRODUCT A deliverable under any Bid or Contract which may include commodities (including printing), services and/or technology. The term "Product" includes Licensed Software.

PURCHASE ORDER The County's fiscal form or format which is used when making a purchase.

REQUEST FOR PROPOSALS (RFP) A type of Bid Document which is used for procurements where factors in addition to cost are considered and weighted in awarding the contract and where the method of award is "best value", as defined by the County's Procurement Policy and New York Law.

REQUEST FOR QUOTATION (RFQ) A type of Bid Document which can be used when a formal bid opening is not required (e.g. discretionary, sole source, single source or emergency purchases).

RESPONSIBLE BIDDER A Bidder that is determined to have skill, judgment and integrity, and that is found to be competent, reliable, experienced and qualified financially, as determined by the Purchasing Agent.

RESPONSIVE BIDDER A Bidder meeting the specifications or requirements prescribed in the Bid Document or solicitation, as determined by the Purchasing Agent.

SINGLE SOURCE A procurement where two or more offerors can supply the required Product, and the Purchasing Agent may award the contract to one Bidder over the other.

SOLE SOURCE A procurement where only one offeror is capable of supplying the required Product.

Bid Submission

7. BID LANGUAGE & CURRENCY All offers (tenders), and all information and Product documentation required by the solicitation or provided as explanation thereof, shall be submitted in English. All prices shall be expressed, and all payments shall be made, in United States Dollars ($ US). Any offers (tenders) submitted which do not meet the above criteria will be rejected.

8. BID OPENING Bids may, as applicable, be opened publicly. The Purchasing Agent reserves the right at anytime to postpone or cancel a scheduled bid opening.

9. BID SUBMISSION The submission of a bid will be construed to mean that the bidder is fully informed as to the extent and character of the supplies, material, or equipment required and a representation that the bidder can furnish the supplies, materials, or equipment satisfactorily in complete compliance with the specifications.

All bids shall comply with the following:

(a) Bids are to be packaged, sealed and submitted to the location stated in the Bid Specifications. Bidders are solely responsible for timely delivery of their bids to the location set forth in the Bid Specifications prior to the stated bid opening date/time.

(b) A bid return envelope, if provided with the Bid Specifications, should be used with the bid sealed inside. If the bid response does not fit into the envelope, the bid envelope should be taped onto the outside of the sealed box or package with the bid inside. If using a commercial delivery company which requires use of their shipping package or envelope, Bidders sealed bid, labeled as detailed below, should be placed within the shippers sealed envelope to ensure that the bid is not prematurely opened. All bids must have a label on the outside of the package or shipping container outlining the following information:

"BID ENCLOSED" (bold print, all capitals)
IFB or RFP Number
Bid Submission date and time

In the event that a Bidder fails to provide such information on the return bid envelope or shipping material, the County reserves the right to open the shipping package or envelope to determine the proper bid number or Product group, and the date and time of bid opening. Bidder shall have no claim against the receiving entity arising from such opening and such opening shall not affect the validity of the bid or the procurement. Notwithstanding the County's right to open a bid to ascertain the foregoing information, Bidder assumes all risk of late delivery associated with the bid not being identified, packaged or labeled in accordance with the foregoing requirements.

10. FACSIMILE SUBMISSIONS Unless specifically authorized by the terms of the Bid Specifications,

facsimile bids ARE PROHIBITED AND SHALL NOT BE ACCEPTED. Where the bid specifications are silent as to the submission of bids by facsimile, no fax bids shall be permitted or accepted. Where specifically authorized, the following rules and conditions apply:

(a) FAX number(s) indicated in the Bid Specifications must be used.

(b) Access to the facsimile machine(s) is on a "first come, first serve" basis, and the Purchasing Agent bears no liability or responsibility and makes no guarantee whatsoever with respect to the Bidders access to such equipment at any specific time.

(c) Bidders are solely responsible for submission and receipt of the entire facsimile bid by the Essex County Purchasing Agent prior to bid opening and must include on the first page of the transmission the total number of pages transmitted in the bid, including the cover page. Incomplete, ambiguous or unreadable transmissions in whole or in part may be rejected at the sole discretion of the Purchasing Agent.

(d) Facsimile bids are fully governed by all conditions outlined in the Bid Documents and must be submitted on forms or in the format required in the Bid Specifications, including the executed signature page and acknowledgment.

11. AUTHENTICATION OF FACSIMILE BIDS The act of submitting a bid by facsimile transmission, when, as and if specifically authorized, including an executed signature page, shall be deemed a confirming act by Bidder which authenticates the signing of the bid.

12. LATE BIDS Any bid received at the specified location after the time specified will be considered a late bid. A late bid shall not be considered for award unless acceptance of the late bid is in the best interests of Essex County and either (a) no timely bids meeting the requirements of the Bid Documents are received, or (b) in the case of a multiple award, an insufficient number of timely bids were received to satisfy the multiple award. Delays in United States mail deliveries or any other means of transmittal, including couriers or agents of Essex County, shall not excuse late bid submissions. Otherwise, all late bids will not be considered and will be returned unopened to the bidder. The bidder assumes the risk of any delay in the mail or in the handling of the mail by employees of the County. Whether sent by mail or by means of personal delivery, the bidder assumes responsibility for having his bid deposited on time at the place specified.

13. BID CONTENTS Bids must be complete and legible. All bids must be signed. All information required by the Bid Specifications must be supplied by the Bidder on the forms or in the format specified in the Bid Specifications. No alteration, erasure or addition is to be made to the Bid Documents. Changes may be ignored by the Purchasing Agent or may be grounds for rejection of the bid. Changes, corrections and/or use of white-out in the bid or Bidders response portion of the Bid Document must be initialed by an authorized representative of the Bidder. Bidders are cautioned to verify their bids before submission, as amendments to bids or requests for withdrawal of bids received by the Purchasing Agent after the time specified for the bid opening, may not be considered. All lines must have an indication of bidders response whether it be "o", "N/A" or a dollar figure. All lines must be filled in to indicate bidder acknowledgment of the request. Bids that do not have all applicable lines filled in on bid sheet may be disqualified as a non-responsive bid. The Purchasing Agent shall not assume there is "no charge" when lines are left empty.

Bidders must submit with bid detailed specifications, circulars, warranties and all necessary data on items he proposes to furnish. This information must show clearly that the item offered meets all detailed specifications herein. The Purchasing Agent reserves the right to reject any bid if its compliance with the specifications is not clearly evident. If item offered differs from the provisions contained in these specifications such differences must be explained in detail, and bid will receive careful consideration if such deviations do not depart from the intent of these specifications and are to the best interests of Essex County as interpreted by the Purchasing Agent of Essex County.

It is the responsibility of the bidder to offer a product that meets the specifications of the manufacturer model as listed.

All stock electrical items must be listed and approved by Underwriters' Laboratories, Inc.

14. EXTRANEOUS TERMS Bids must conform to the terms set forth in the Bid Documents, as extraneous terms or material deviations (including additional, inconsistent, conflicting or alternative terms) may render the bid non-responsive and may result in rejection of the bid.

Extraneous term(s) submitted on standard, pre-printed forms (including but not limited to: product literature, order forms, license agreements, contracts or other documents) which are attached or referenced with the submission shall not be considered part of the bid, but shall be deemed included for informational or promotional purposes only.

Only those extraneous terms which meet all the following requirements will be considered as having been submitted as part of the Bid:

(a) Each proposed extraneous term (addition, counter-offer, deviation, or modification) must be specifically enumerated in a writing which is not part of a pre-printed form; and

(b) The writing must identify the particular specification requirement (if any) which Bidder rejects or proposes to modify by inclusion of the extraneous term; and

(c) The Bidder shall enumerate the proposed addition, counteroffer, modification or deviation from the Bid Document, and the reasons therefore.

No extraneous term(s), whether or not deemed "material," shall be incorporated into a contract unless the Purchasing Agent expressly accepts each such term(s) in writing. Acceptance and/or processing of the Bid shall not constitute such written acceptance of Extraneous Term(s).

15. CONFIDENTIAL / TRADE SECRET MATERIALS Confidential, trade secret or proprietary materials as defined by the laws of the State of New York must be clearly marked and identified as such upon submission. Bidders/Contractors intending to seek an exemption from disclosure of these materials under the *Freedom of Information Law* must request the exemption in writing, setting forth the reasons for the claimed exemption, at the time of submission. Acceptance of the claimed materials does not constitute a determination on the exemption request, which determination will be made in accordance with statutory procedures.

16. PREVAILING WAGE RATES - Public Works and Building Services Contracts If any portion of work being bid is subject to the prevailing wage rate provisions of Labor Law, the following shall apply:

(a) "Public Works" and "Building Services" – Definitions

i. Public Works *Labor Law* Article 8 applies to contracts for public improvement in which laborers, workers or mechanics are employed on a "public works" project (distinguished from public "procurement" or "service" contracts). The State, a public benefit corporation, a municipal corporation (including a school district), or a commission appointed by law must be a party to the contract. The wage and hours provision applies to any work performed by contractor or subcontractors.

ii. Building Services *Labor* Law Article 9 applies to contracts for building service work over $1,500 with a public agency, which 1) involve the care or maintenance of an existing building, or 2) involve the transportation of office furniture or equipment to or from such building, or 3) involve the transportation and delivery of fossil fuel to such building, and 4) the principal purpose of which is to furnish services through use of building service employees.

(b) Prevailing Wage Rate Applicable to Bid Submissions A copy of the applicable prevailing wage rates to be paid or provided are attached to this solicitation. Bidders must submit bids which are based upon the prevailing hourly wages, and supplements in cash or equivalent benefits (i.e., fringe benefits and any cash or non-cash compensation which are not wages, as defined by law) that equal or exceed the applicable prevailing wage rate(s) for the location where the work is to be performed. Where the Bid Documents require the Bidder to enumerate hourly wage rates in the bid, Bidders may not submit bids based upon hourly wage rates and supplements below the applicable prevailing wage rates as established by the New York State Department of Labor. **Bids which fail to comply with this requirement will be disqualified.**

(c) Wage Rate Payments / Changes During Contract Term The wages to be paid under any resulting contract shall not be less than the prevailing rate of wages and supplements as set forth by law. It is required that the Contractor keep informed of all changes in the Prevailing Wage Rates during the contract term that apply to the classes of individuals supplied by the contractor on any projects which result from this contract which are subject to the provisions of the *Labor Law.* Contractor is solely liable for and must pay such required prevailing wage adjustments during the contract term as required by law.

(d) Public Posting & Certified Payroll Records In compliance with Article 8, Section 220 of the *Labor Law,* as amended by Chapter 565 of the Laws of 1997:

i. Posting The Contractor must publicly post on the work site, in a prominent and accessible place, a legible schedule of the prevailing wage rates and supplements.

ii. Payroll Records Contractors and sub-contractors must keep original payrolls or transcripts subscribed and affirmed as true under the penalties of perjury as required by law. For public works contracts over $25,000 where the contractor maintains no regular place of business in New York State, such records must be kept at the work site. For building services contracts, such records must be kept at the work site while work is being performed.

iii. Submission of Certified Payroll Transcripts for Public Works Contracts Only Contractors and sub-contractors on public works projects must submit monthly payroll transcripts to Essex County which has prepared or directs the preparation of the plans and specifications for a public works project, as set forth in the Bid Specifications. For mini-bid solicitations, the payroll records must be submitted to the entity preparing the agency mini-bid project specification. For "agency specific" bids, the payroll records should be submitted to the entity issuing the purchase order. For all other Essex County procurement contracts, such records should be submitted to the individual agency issuing the purchase order(s) for the work. Upon mutual agreement of the Contractor and Essex County, the form of submission may be submitted in a specified disk format acceptable to the Department of Labor so long as: 1) the contractor/subcontractor retains the original records; and, (2) an original signed letter by a duly authorized individual of the contractor or subcontractor attesting to the truth and accuracy of the records accompanies the disk. **This provision does not apply to building services contracts.**

iv. Records Retention Contractors and subcontractors must preserve such certified transcripts for a period of three years from the date of completion of work on the awarded contract.

(e) Days Labor - Defined for Article 8, Public Works (For Purposes of Article 8 of the *Labor Law)* No laborer, worker or mechanic in the employ of the contractor, subcontractor or other person doing or contracting to do all or part of the work contemplated by the contract shall be permitted or required to work more than eight hours in any one calendar day or more than five days in any one week except in cases of extraordinary emergency including fire, flood or danger to life or property. "Extraordinary emergency" shall be deemed to include situations in which sufficient laborers, workers and mechanics cannot be employed to carry on public work expeditiously as a result of such

restrictions upon the number of hours and days of labor and the immediate commencement or prosecution or completion without undue delay of the public work is necessary in the judgment of the Essex County Purchasing Agent for the preservation of the contract site or for the protection of the life and limb of the persons using the contract site.

17. TAXES

(a) Unless otherwise specified in the Bid Specifications or set forth in this clause, the quoted bid price includes all taxes applicable to the transaction.

(b) Purchases made by Essex County and certain non-County Authorized Users are exempt from New York State and local sales taxes and, with certain exceptions, federal excise taxes. To satisfy the requirements of the New York State Sales tax exemption, either the Purchase Order issued by a County Agency or the invoice forwarded to authorize payment for such items will be sufficient evidence that the sale by the Contractor was made to the County, an exempt organization under Section 1116 (a) (1) of the *Tax Law.* Non-County Authorized Users must offer their own proof of exemption where required. No person, firm or corporation is, however, exempt from paying the State Truck Mileage and Unemployment Insurance or Federal Social Security taxes, which remain the sole responsibility of the Bidder/Contractor. For tax free transactions under the Internal Revenue Code, the Essex County Registration Number is 14 6002889.

(c) Purchases by Authorized Users other than Essex County may be subject to such taxes, and in those instances the tax should be computed based on the bid price and added to the invoice submitted to such entity for payment.

18. EXPENSES PRIOR TO AWARD Essex County is not liable for any costs incurred by a Bidder in the preparation and production of a bid or for any work performed prior to contract award and/or issuance of an approved Purchase Order.

19. ADVERTISING BID RESULTS A Bidder in submitting a bid agrees not to use the results therefrom as a part of any commercial advertising without the prior written approval of the Purchasing Agent. In addition to any other sanctions or remedies available to it in law or equity, the Purchasing Agent may suspend from bidding on its requirements or terminate a contract of any Bidder/Contractor who violates the terms of this clause.

20. PRODUCT REFERENCES

(a) **"Or Equal"** On all Bid Specifications the words "or equal" are understood to apply where a copyright brand name, trade name, catalog reference, or patented Product is referenced. References to such specific Product are intended as descriptive, not restrictive, unless otherwise stated. Comparable Product will be considered if proof of compatibility is provided, including appropriate catalog excerpts, descriptive literature, specifications and test data, etc. The Purchasing Agents decision as to acceptance of the Product as equal shall be final.

(b) **Discrepancies in References** In the event of a discrepancy between the model number referenced in the Bid Specifications and the written description of the Products therein which cannot be reconciled, with respect to such discrepancy, then the written description shall prevail.

21. RECYCLED OR RECOVERED MATERIALS Upon the conditions specified in the Bid Specifications and in accordance with the laws of the State of New York, Contractors are encouraged to use recycled or recovered materials in the manufacture of Products and packaging to the maximum extent practicable without jeopardizing the performance or intended end use of the Product or packaging unless such use is precluded due to health, welfare, safety requirements or in the Bid

Specifications. Where such use is not practical, suitable, or permitted by the Bid Specifications, Contractor shall deliver new materials in accordance with the "Warranties & Guaranties" set forth below.

Refurbished or remanufactured components or items may only be accepted at the discretion of the Purchasing Agent, or upon the conditions set forth in the Bid Specifications.

Items with recycled, recovered, refurbished or remanufactured content must be identified in the bid or will be deemed new Product.

22. PRODUCTS MANUFACTURED IN PUBLIC INSTITUTIONS Bids offering Products which are manufactured or produced in public institutions will be rejected.

23. PRICING

(a) Unit Pricing If required by the Bid Specifications, the Bidder should insert the price per unit specified and the price extensions in decimals, not to exceed four places for each item, in the bid. In the event of a discrepancy between the unit price and the extension, the unit price shall govern unless, in the sole judgment of the Purchasing Agent, such unit pricing is obviously erroneous.

(b) Net Pricing Prices must be net, including transportation, customs, tariff, delivery and other charges fully prepaid by the Contractor to the destination(s) indicated in the Bid Specifications, subject only to the cash discount. If the award is to be made on another basis, transportation and other charges must be prepaid by the Contractor and added to the invoice as a separate item, unless otherwise required in the Bid Specifications.

(c) "No Charge" Bid When bids are requested on a number of Products as a group or Lot, a Bidder desiring to bid "no charge" on a Product in the grouping or Lot must clearly indicate such. Otherwise, such bid may be considered incomplete and be rejected, in whole or in part, at the discretion of the Purchasing Agent.

If a price is written in numbers and alpha, the alpha will govern.

Prices shall be net FOB any point in Essex County, New York. Price quoted shall include all delivery costs. Prices shall be net, including transportation and delivery charges fully prepaid by the successful bidder to destination indicated in the proposal. If award is made on any other basis, transportation charges must be prepaid by the successful bidder and added to the invoice as a separate item. In any case, title shall not pass until items have been delivered and accepted by the County.

24. DRAWINGS

(a) Drawings Submitted With Bid When the Bid Specifications require the Bidder to furnish drawings and/or plans, such drawings and/or plans shall conform to the mandates of the Bid Documents and shall, when approved by the Purchasing Agent, be considered a part of the bid and of any resulting contract. All symbols and other representations appearing on the drawings shall be considered a part of the drawing.

(b) Drawings Submitted During the Contract Term Where required by the Bid Specifications to develop, maintain and deliver diagrams or other technical schematics regarding the scope of work, Contractor shall be required to develop, maintain, deliver and update such drawings on an ongoing basis at no additional charge. Contractor shall be responsible for updating drawings and plans during the contract term to reflect additions, alterations, and deletions. Such drawings and diagrams shall be delivered to the Authorized

Users representative as required by the Bid Specifications. Where required, Contractor shall furnish to Authorized User in a timely manner the required drawings representing the then current, "as modified" condition of all product included in the scope of work.

(c) Accuracy of Drawings Submitted All drawings shall be neat and professional in manner and shall be clearly labeled as to locations and type of product, connections and components. Drawings and diagrams are to be in compliance with accepted drafting standards. Acceptance or approval of such plans shall not relieve the Contractor from responsibility for design or other errors of any sort in the drawings or plans, or from its responsibility for performing as required, furnishing product, services or installation, or carrying out any other requirements of the intended scope of work.

25. SITE INSPECTION Where Bidder is required by the Bid Specifications to deliver or install Product, or to service installed product(s) or equipment, Bidder shall be given an opportunity and shall be required to inspect the site prior to submission of the Bid, including environmental or other conditions or pre-existing deficiencies in the installed product, equipment or environment, which may affect Bidders ability to deliver, install or otherwise provide the required product. All inquiries regarding such conditions may only be made in writing. Bidder shall be deemed to have knowledge of any deficiencies or conditions which such inspection or inquiry might have disclosed, and to have included the costs of repair in its bid. Bidder must provide a detailed explanation of work intended to be performed under this clause. Bidder shall be required to remedy any pre-existing deficiencies or conditions at the commencement of the contract term. Reimbursement for the cost of repairing the conditions or deficiencies shall be separately enumerated in the bid.

26. SAMPLES

(a) Standard Samples Bid Specifications may indicate that the Product to be purchased must be equal to a standard sample on display in a place designated by the Purchasing Agent and such sample will be made available to the Bidder for examination prior to the opening date. Failure by the Bidder to examine such sample shall not entitle the Bidder to any relief from the conditions imposed by the Bid Documents.

(b) Bidder Supplied Samples The Purchasing Agent reserves the right to request from the Bidder/Contractor a representative sample(s) of the Product offered at any time prior to or after award of a contract. Unless otherwise instructed, samples shall be furnished within the time specified in the request. Untimely submission of a sample may constitute grounds for rejection of bid or cancellation of the Contract. Samples must be submitted free of charge and be accompanied by the Bidders name and address, any descriptive literature relating to the Product and a statement indicating how and where the sample is to be returned. Where applicable, samples must be properly labeled with the appropriate bid or Essex County contract reference.

A sample may be held by the Purchasing Agent during the entire term of the contract and for a reasonable period thereafter for comparison with deliveries. At the conclusion of the holding period the sample, where feasible, will be returned as instructed by the Bidder, at the Bidders expense and risk. Where the Bidder has failed to fully instruct the Purchasing Agent as to the return of the sample (i.e. mode and place of return, etc.) or refuses to bear the cost of its return, the sample shall become the sole property of the receiving entity at the conclusion of the holding period.

(c) Enhanced Samples When an approved sample exceeds the minimum specifications, all Product delivered must be of the same enhanced quality and identity as the sample. Thereafter, in the event of a Contractors default, the Purchasing Agent may procure a commodity substantially equal to the enhanced sample from other sources, charging the Contractor for any additional costs incurred.

(d) Conformance with Sample(s) Submission of a sample (whether or not such sample is tested by, or for, the Purchasing Agent) and approval thereof shall not relieve the Contractor from full compliance with all conditions and terms, performance related and otherwise, specified in the Bid Documents. If in the judgment of the Purchasing Agent the sample or product submitted is not in accordance with the specifications or testing requirements prescribed in the Bid Documents, the Purchasing Agent may reject the bid. If an award has been made, the Purchasing Agent may cancel the contract at the expense of the Contractor.

(e) Testing All samples are subject to tests in the manner and place designated by the Purchasing Agent, either prior to or after contract award. Unless otherwise stated in the Bid Specifications, Bidder Samples consumed or rendered useless by testing will not be returned to the Bidder.

27. ADDENDA / INTERPRETATION No verbal interpretation of the intent of any of the specifications or other Contract Documents will be made before receipt of bids. Requests for interpretations prior to receipt of bids must be presented, in writing, to the Purchasing Agent, 100 Court Street, P.O. Box 217, Elizabethtown, NY 12932, and to be given consideration must be received by the Purchasing Agent at least seven (7) days prior to the date set for the opening of bids.

Any interpretation, and any additional information or instruction will, if issued, be in the form of a written Addendum or Addenda sent to all holders of Contract Documents at the addresses furnished therefor, at least five (5) days prior to the date of the opening of bids.

Failure of any bidder to receive any Addenda shall not relieve such bidder from any obligation under this bid as submitted. All Addenda so issued shall become a part of the Contract Documents.

Bid Evaluation

28. BID EVALUATION The Purchasing Agent reserves the right to accept or reject any and all bids, or separable portions of offers, and waive technicalities, irregularities, and omissions if the Purchasing Agent determines the best interests of the County will be served. The Purchasing Agent, in his/her sole discretion, may accept or reject illegible, incomplete or vague bids and his/her decision shall be final. A conditional or revocable bid which clearly communicates the terms or limitations of acceptance may be considered and contract award may be made in compliance with the Bidders conditional or revocable terms in the offer.

Where a bidder is requested to submit a bid on individual items and/or on a total sum or sums, the right is reserved to award bids on individual items or on total sums. The County reserves the right to award in whole or in part based on the lowest responsible bid.

The following three items will automatically render a bid unacceptable to Essex County:

a. Failure to sign bid proposal page.
b. Failure to include necessary bid deposit (as required).
c. Failure to sign and submit non-collusive bidding certificate.

It shall be fully understood that any deviations from the inclusion of the above items will be grounds to see the bid as non-compliant and will not be considered for award.

The Purchasing Agent reserves the right to reject such bids, as in his opinion, are incomplete, conditional, obscure, or which contain irregularities of any kind including unbalanced bids. One in which the amount bid for one or more separate items is substantially out of line with the current market prices for the materials and/or work covered thereby.

29. CONDITIONAL BID Unless the Bid Specifications provides otherwise, a bid is not rendered non-responsive if the Bidder specifies that the award will be accepted only on all or a specified group of items or Product included in the specification. It is understood that nothing herein shall be deemed to change or alter the method of award contained in the Bid Documents.

30. CLARIFICATIONS / REVISIONS Prior to award, the Purchasing Agent reserves the right to seek clarifications, request bid revisions, or to request any information deemed necessary for proper evaluation of bids from all Bidders deemed to be eligible for contract award. Failure to provide requested information may result in rejection of the bid.

31. PROMPT PAYMENT DISCOUNTS While prompt payment discounts will not be considered in determining the low bid, the Purchasing Agent may consider any prompt payment discount in resolving bids which are otherwise tied. However, any notation indicating that the price is net, (e.g. net 30 days), shall be understood to mean only that no prompt payment discount is offered by the Bidder. The imposition of service, interest, or other charges, except pursuant to the provisions of Article 11_A of the *State Finance Law,* which are applicable in any case, may render the bid non-responsive and may be cause for its rejection.

32. EQUIVALENT OR IDENTICAL BIDS In the event two offers are found to be substantially equivalent, price shall be the basis for determining the award recipient. If two or more Bidders submit substantially equivalent bids as to pricing or other factors, the decision of the Purchasing Agent to award a contract to one or more of such Bidders shall be final.

33. PERFORMANCE QUALIFICATIONS The Purchasing Agent reserves the right to investigate or inspect at any time whether or not the Product, qualifications or facilities offered by the Bidder/Contractor meet the requirements set forth in the Bid Documents. Contractor shall at all times during the contract term remain responsible and responsive. A Bidder/Contractor must be prepared, if requested by the Purchasing Agent, to present evidence of experience, ability and financial standing, as well as a statement as to plant, machinery and capacity of the manufacturer for the production, distribution and servicing of the Product bid. If the Purchasing Agent determines that the conditions and terms of the Bid Documents or Contract are not complied with, or that items or Product proposed to be furnished do not meet the specified requirements, or that the qualifications, financial standing or facilities are not satisfactory, or that performance is untimely, the Purchasing Agent may reject such bid or terminate the contract. Nothing in the foregoing shall mean or imply that it is obligatory upon the Purchasing Agent to make an investigation either before or after award of a contract, but should such investigation be made, it in no way relieves the Bidder/Contractor from fulfilling all requirements and conditions of the contract.

34. DISQUALIFICATION FOR PAST PERFORMANCE Bidder may be disqualified from receiving awards if Bidder, or anyone in Bidders employment, has previously failed to perform satisfactorily in connection with public bidding or contracts.

35. QUANTITY CHANGES PRIOR TO AWARD The Purchasing Agent reserves the right, at any time prior to the award of a specific quantity contract, to alter in good faith the quantities listed in the Bid Specifications to conform with requirements. In the event such right is exercised, the lowest responsible Bidder meeting specifications will be advised of the revised requirements and afforded an opportunity to extend or reduce its bid price in relation to the changed quantities. Refusal by the low Bidder to so extend or reduce its bid price may result in the rejection of its bid and the award of such contract to the lowest responsible Bidder who accepts the revised requirements.

36. RELEASE OF BID EVALUATION MATERIALS Requests concerning the evaluation of bids may be submitted under the *Freedom of Information Law.* Information, other than the Bid Tabulation, shall be released as required by law after contract award. Written requests should be directed to the Purchasing Agent.

37. TIME FRAME FOR OFFERS The Purchasing Agent reserves the right to make awards within sixty (60) days after the date of the bid opening, during which period, bids must remain firm and cannot be withdrawn. If, however, an award is not made within the sixty (60) day period, bids shall remain firm until such later time as either a contract is awarded or the Bidder delivers to the Purchasing Agent written notice of the withdrawal of its bid. Any bid which expressly states therein that acceptance must be made within a shorter specified time, may at the sole discretion of the Purchasing Agent, be accepted or rejected.

TERMS & CONDITIONS

38. CONTRACT CREATION / EXECUTION Except as may be otherwise provided by law or by the Purchasing Agent, upon receipt of all required approvals a Contract shall be deemed executed and created with the successful Bidder(s) upon the Purchasing Agent's mailing or electronic communication to the address on the bid of (a) a Letter of Acceptance, (b) a fully executed contract, or (c) a Purchase Order authorized by the Purchasing Agent.

39. COMPLIANCE WITH LAWS, ETC. The Bidder shall comply with all the provisions of the laws of the State of New York and of the United States of America which affect municipalities and municipal contracts, and any and all State and Federal rules and regulation, and of amendments and additions thereto, insofar as the same shall be applicable to any contract awarded hereunder with the same force and effect as if set forth at length herein. The Bidder's special attention is called to the following laws: *General Municipal Law* Section 1 03-d, *State Finance* Law Section 167-b prohibiting the purchase of tropical hardwood products, and the New York State Public Employee Safety & Health Act of 1980.

40. MODIFICATION OF TERMS The terms and conditions set forth in the Contract shall govern all transactions by Authorized User(s) under this Contract. The Contract may only be modified or amended upon mutual written agreement of the Purchasing Agent and Contractor.

The Contractor may, however, offer Authorized User(s) more advantageous pricing, payment, or other terms and conditions than those set forth in the Contract. In such event, a copy of such terms shall be furnished to the Authorized User(s) and Purchasing Agent by the Contractor.

Other than where such terms are more advantageous for the Authorized User(s) than those set forth in the Contract, no alteration or modification of the terms of the Contract, including substitution of Product, shall be valid or binding against Authorized User(s) unless authorized by the Purchasing Agent or specified in the Contract Award Notification. No such alteration or modification shall be made by unilaterally affixing such terms to Product upon delivery (including, but not limited to, attachment or inclusion of standard pre-printed order forms, product literature, "shrink wrap" terms accompanying software upon delivery, or other documents) or by incorporating such terms onto order forms, purchase orders or other documents forwarded by the Contractor for payment, notwithstanding Authorized Users subsequent acceptance of Product, or that Authorized User has subsequently processed such document for approval or payment.

41. SCOPE CHANGES The Purchasing Agent reserves the right, unilaterally, to require, by written order, changes by altering, adding to or deducting from the contract specifications, such changes to be within the general scope of the contract. The Purchasing Agent may make an equitable adjustment in the contract price or delivery date if the change affects the cost or time of performance.

With respect to any specific quantity stated in the contract, the Purchasing Agent reserves the right after award to order up to 20% more or less (rounded to the next highest whole number) than the specific quantities called for in the contract. Notwithstanding the foregoing, the Purchasing Agent may purchase greater or lesser percentages of contract quantities should the Purchasing Agent and Contractor so agree.

42. ESTIMATED QUANTITY CONTRACTS Estimated quantity contracts are expressly agreed and

understood to be made for only the quantities, if any, actually ordered during the contract term. No guarantee of any estimated quantity(s) is implied or given. Unless otherwise set forth in the Bid Specifications, contracts for services and technology are completely voluntary as to use, and therefore no quantities are guaranteed.

43. BEST PRICING OFFER During the contract term, if substantially the same or a smaller quantity of a Product is sold by the Contractor outside of this contract vehicle upon the same or similar terms and conditions as that of this contract at a lower price, the price under this contract shall be immediately reduced to the lower price.

44. PURCHASE ORDERS Unless otherwise authorized in writing by the Purchasing Agent, no Products are to be delivered or furnished by Contractor until transmittal of an official Purchase Order from the Authorized User requiring the Product. Unless terminated or canceled pursuant to the authority vested in the Purchasing Agent, Purchase Orders shall be effective and binding upon the Contractor when placed in the mail or electronically transmitted prior to the termination of the contract period, addressed to the Contractor at the address set forth in the Contract for receipt of orders, or in the Contract Award Notification.

All Purchase Orders issued pursuant to contracts let by the Purchasing Agent must bear the appropriate contract number and, if necessary; required State approvals. Unless otherwise specified, all Purchase Orders against centralized contracts will be placed by Authorized Users directly with the Contractor and any discrepancy between the terms stated on the vendors order form, confirmation or acknowledgment, and the contract terms shall be
resolved in favor of the terms most favorable to the Authorized User.

If, with respect to an agency specific contract, a Purchase Order is not received within two weeks after the issuance of a Contract Award Notification, it is the responsibility of the Contractor to request in writing that the appropriate Authorized User forward a Purchase Order. If, thereafter, a Purchase Order is not received within a reasonable period of time, the Contractor shall promptly notify the appropriate purchasing officer in Essex County. Failure to timely notify such officer may, in the discretion of the Purchasing Agent and without cost to the State, result in the canceling of such requirement by the Purchasing Agent with, at the Purchasing Agents discretion, a corresponding reduction in the contract quantity and price.

45. PRODUCT DELIVERY It shall be understood that with respect to contract deliveries, time is of the essence. Delivery must be made as ordered and in accordance with the terms of the contract. Unless otherwise specified in the Bid Specifications, delivery shall be made within thirty calendar days after receipt of a purchase order by the Contractor. The decision of the Purchasing Agent as to compliance with delivery terms shall be final. The burden of proof for delay in receipt of Purchase Order shall rest with the Contractor. In all instances of a potential or actual delay in delivery, the Contractor shall immediately notify the Purchasing Agent and the Authorized User, and confirm in writing the explanation of the delay, and take appropriate action to avoid any subsequent late deliveries. Any extension of the time for delivery must be requested in writing by the Contractor and approved in writing by the Purchasing Agent. Failure to meet such time schedule may be grounds for cancellation of the order or, in the Purchasing Agents discretion, the Contract.

The County must be notified twenty-four (24) hours in advance of delivery. The County reserves the right to deny acceptance of delivery if this notice is not given, at no cost to the County.

The successful bidder shall be responsible for delivery of items in good condition at point of destination, and shall file with the carrier all claims for breakage, imperfections, and other losses, which will be deducted from invoices. The Purchasing Agent will note for the benefit of successful bidder when packages are not received in good condition. Carton shall be labeled with purchase order or contract number, successful bidders name and general statement of contents. Failure to comply with this condition shall be considered sufficient reason for refusal to accept the goods.

Unless otherwise stated in the specifications, all items must be delivered into and placed at a point within the building as directed by the shipping instructions or the Purchasing Agent. The successful bidder will be required to furnish proof of delivery in every instance.

Unloading and placing of equipment and furniture is the responsibility of the successful bidder, and the County accepts no responsibility for unloading and placing of equipment Any costs incurred due to the failure of the successful bidder to comply with this requirement will be charged to him. No help for unloading will be provided by the County, and suppliers should notify their truckers accordingly.

All deliveries shall be accompanied by delivery tickets or packing slips. Ticket shall contain the following information for each item delivered:

Contract Number and/or Purchase Order Number
Name of Article
Item Number (if applicable)
Quantity
Name of the Successful Bidder

46. SATURDAY & HOLIDAY DELIVERIES Unless otherwise specified in the Bid Specifications or by an Authorized User, deliveries will not be scheduled for Saturdays, Sundays or legal holidays observed by the State of New York except of Product for daily consumption or where an emergency exists or the delivery is a replacement or is late, in which event the convenience of the Authorized User shall govern.

47. SHIPPING / RECEIPT OF PRODUCT

(a) Packaging Tangible Product shall be securely and properly packed for shipment, storage and stocking in appropriate, clearly labeled shipping containers and according to accepted commercial practice, without extra charge for packing materials, cases or other types of containers. The container shall become and remain the property of the receiving entity unless otherwise specified in the contract documents.

(b) Shipping Charges Contractor shall be responsible for insuring that the Bill of Lading states "charges prepaid" for all shipments. Unless otherwise stated in the Bid Specifications, all deliveries shall be deemed to be FOB Destination tailgate delivery at the dock of the Authorized User. Unless otherwise agreed, items purchased at a price F.O.B. Shipping point plus transportation charges are understood to not relieve the contractor from responsibility for safe and proper delivery notwithstanding the Authorized Users payment of transportation charges.

(c) Receipt of Product The Contractor shall be solely responsible for assuring that deliveries are made to personnel authorized to accept delivery on behalf of the Authorized User. Any losses resulting from the Contractors failure to deliver Product to authorized personnel shall be borne exclusively by the Contractor.

48. TITLE AND RISK OF LOSS Notwithstanding the form of shipment, title and risk of loss shall not pass from the Contractor to the Authorized User until the Products have been received, inspected and accepted by the receiving entity. Acceptance shall occur within a reasonable time or in accordance with such other defined acceptance period as may be specified in the Bid Specifications. Mere acknowledgment by Authorized User personnel of the delivery or receipt of goods (e.g. signed bill of lading) shall not be deemed or construed as acceptance of the Products received. Any delivery of Product which is substandard or does not comply with the Contract terms, may be rejected or accepted on an adjusted price basis, as determined by the Purchasing Agent.

49. RE-WEIGHING PRODUCT Deliveries are subject to re-weighing at the point of destination by the receiving entity. If shrinkage occurs which exceeds that normally allowable in the trade, the receiving

entity shall have the option to require delivery of the difference in quantity, or to reduce the payment accordingly.

50. PRODUCT SUBSTITUTION In the event a specified manufacturers Product listed in the Contractors Bid becomes unavailable or cannot be supplied by the Contractor for any reason (except as provided for in the Force Majeure Clause below) a Product deemed by the Purchasing Agent to be the equal or better of the specified commodity or service must be substituted by the Contractor at no additional cost or expense to the Authorized User. Unless otherwise specified, any substitution of Product prior to the Purchasing Agents approval may be cause for cancellation of contract.

51. REJECTED PRODUCT When Products are rejected, they must be removed by the Contractor from the premises of the receiving entity within ten days of notification of rejection by Authorized User. Upon rejection notification, risk of loss of rejected or non-conforming Product shall remain on Contractor. Rejected items not removed by the Contractor within ten days of notification shall be regarded as abandoned by the Contractor, and the Authorized User shall have the right to dispose of the items as its own property. The Contractor shall promptly reimburse the Authorized User for any and all costs and expenses incurred in storage or effecting removal or disposition.

52. INSTALLATION Where installation is required, Bidder shall be responsible for placing and installing the equipment in the required locations. All materials used in the installation shall be of good quality and shall be free from any and all defects which would mar the appearance of the equipment or render it structurally unsound. Installation includes the furnishing of any equipment, rigging and materials required to install or replace the Product in the proper location. The Contractor shall protect the site from damage for all its work and shall repair damages or injury of any kind caused by the Contractor, its employees, officers or agents. If any alteration, dismantling or excavation, etc. is required to effect installation, the Contractor shall thereafter promptly restore the structure or site to its original condition. Work shall be performed so as to cause the least inconvenience to the Authorized User(s) and with proper consideration for the rights of other contractors or workers. The Contractor shall promptly perform its work and shall coordinate its activities with those of other contractors. The Contractor shall clean up and remove all debris and rubbish from its work as required or directed. Upon completion of the work, the building and surrounding area of work shall be left clean and in a neat, unobstructed condition, and everything in satisfactory repair and order.

53. REPAIRED OR REPLACED PRODUCT / COMPONENTS Where the Contractor is required to repair, replace or substitute Product or components under the Contract, the repaired, replaced or substituted Product shall be subject to all terms and conditions for new Product set forth in the contract, including product warranties.

54. ON-SITE STORAGE Materials, equipment or supplies may be stored at the County/s or Authorized User's site at the Contractors sole risk and only with the approval of, as the case may be, the County or the Authorized User.

55. EMPLOYEES / SUBCONTRACTORS / AGENTS All employees, subcontractors or agents performing work under the contract must be trained technicians who meet or exceed the technical and training qualifications set forth in the Bid Specifications or the Bid, whichever is greater, and must comply with all rules and requirements of the Contract. The Purchasing Agent reserves the right to conduct a security background check or otherwise approve any employee or agent furnished by Contractor and to refuse access to or require replacement of any personnel for cause, including but not limited to, technical or training qualifications, quality of work or change in security status or non-compliance with Authorized Users security or other requirements. Such approval shall not relieve the Contractor of the obligation to perform all work in compliance with the contract terms. The Purchasing Agent reserves the right to reject and/or bar from the facility for cause any employee, subcontractor, or agents of the Contractor.

56. ASSIGNMENT / SUBCONTRACTORS The Contractor shall not assign, transfer, convey, sublet, or otherwise dispose of the contract or its right, title or interest therein, or its power to execute such contract to any other person, company, firm or corporation in performance of the contract, other than the assignment of the right to receive moneys due, without the prior written consent of Essex County. Prior to an assignment of the right to receive moneys becoming effective, Contractor shall file a written notice of such assignment simultaneously with Essex County and participating Authorized User(s).

The Purchasing Agent reserves the right to reject any proposed subcontractor, assignee or supplier for bona fide business reasons, which may include, but are not limited to: that the proposed transferee is on the Department of Labors list of companies with which New York State cannot do business; the Purchasing Agent determines that the company is not qualified; unsatisfactory contract performance or service has been previously provided; or attempts were not made to solicit minority and womens business enterprises (M/WBE) bidders for the subcontract.

57. PERFORMANCE / BID BOND Essex County reserves the right to require the Bidder/Contractor to furnish without additional cost, a performance, payment or bid bond or negotiable irrevocable letter of credit or other form of security for the faithful performance of the contract, whenever the Purchasing Agent in his/her sole discretion deems such bond or security to be in Essex County's best interest. Where required, such bond or other security shall be in the form prescribed by the Purchasing Agent.

58. STOP / SUSPENSION OF WORK

(a) Stop Work Order The Purchasing Agent reserves the right to stop the work covered by this contract at any time that the successful Contractor becomes unable or incapable of performing the work or meeting any requirements or qualifications set forth in the contract. In the event of such stopping, the Purchasing Agent shall have the right to arrange for the completion of the work in such manner as it may deem advisable and if the cost thereof exceeds the amount of the bid, the successful Contractor shall be liable for any such cost on account thereof.

(b) Suspension of Work Order The Purchasing Agent, in his/her sole discretion, reserves the right to suspend any or all activities under this contract, at anytime, in the best interests of the State or Issuing Entity. In the event of such suspension, the contractor will be given a formal written notice outlining the particulars of such suspension. Examples of the reason for such suspension include, but are not limited to, a budget freeze on County spending, declaration of emergency, or other such circumstances. Upon issuance of such suspension of work, the Contractor is not to accept any purchase orders, as specified in the Suspension Order. Activity may resume at such time as the Purchasing Agent issues a formal written notice authorizing a resumption of work.

59. CANCELLATION A contract may be canceled by the Purchasing Agent, and/or an Authorized User may cancel its participation, license or service order under the contract, at the Contractors expense upon non-performance, or upon a determination that Contractor is non-responsive, or non-responsible.

60. FORCE MAJEURE The Contractor shall not be responsible for delay resulting from its failure to perform if neither the fault nor negligence of the Contractor, its officers, employees or agents contributed to such delay and the delay is due directly to acts of God, wars, acts of public enemies, strikes, fires or floods, or other similar cause beyond the control of the Contractor, or for any of the foregoing which affect subcontractors or suppliers and no alternate source of supply is available to the Contractor. In such event, Contractor shall notify the Purchasing Agent, by certified or registered mail, of the delay or potential delay and the cause(s) thereof either (a) within ten (10) calendar days after the cause which creates or will create the delay first arose if the Contractor could reasonably foresee that a delay could occur by reason thereof, or (b), if delay is not reasonably foreseeable, within five (5) calendar days after the date the Contractor first had reason to believe a delay could result. The foregoing shall constitute the Contractors sole remedy or excuse with respect to such delay. In the

event performance is suspended or delayed, in whole or in part, by reason of any of the aforesaid causes or occurrences and proper notification is given the Purchasing Agent, any performance so suspended or delayed shall be performed by the Contractor at no increased cost, promptly after such disabilities have ceased to exist unless it is determined in the sole discretion of the Purchasing Agent that the delay will significantly impair the value of the contract to the County or to Authorized Users, whereupon the Purchasing Agent may:

(a) Accept allocated performance or deliveries from the Contractor. The Contractor, however, hereby agrees to grant preferential treatment to County Agencies with respect to Product subjected to allocation; and/or

(b) Purchase from other sources (without recourse to and by the Contractor for the costs and expenses thereof) to replace all or part of the Products which are the subject of the delay, which purchases may be deducted from the contract quantity; or

(c) Terminate the contract or the portion thereof which is subject to delivery delays, and thereby discharge any unexecuted portion of the contract or the relative part thereof.

61. CONTRACT BILLINGS Contractor shall provide complete and accurate billing invoices to each Authorized User in order to receive payment. Billings for Agencies must contain all information required by the County Treasurer and/or Auditor. The County Treasurer shall render payment for Agency purchases, and such payment shall be made in accordance with ordinary County procedures and practices. Payment of contract purchases made by Authorized Users other than Agencies shall be billed directly by Contractor on invoices/vouchers, together with complete and accurate supporting documentation as required by the Authorized User.

Submission of an invoice and payment thereof shall not preclude the Purchasing Agent from reimbursement or demanding a price adjustment in any case where the Product delivered is found to deviate from the terms and conditions of the bid and award documents.

62. DEFAULT - AUTHORIZED USER An Authorized Users breach shall not be deemed a breach of the centralized contract. In the event a participating Authorized User fails to make payment to the Contractor for Products delivered, accepted and properly invoiced, within 60 days of such delivery and acceptance, the Contractor may, upon 10 days advance written notice to both the Purchasing Agent and the Authorized Users purchasing official, suspend additional shipments of Product or provision of services to such entity until such time as reasonable arrangements have been made and assurances given by such entity for current and future contract payments.

Notwithstanding the foregoing, the Contractor shall, at least 10 days prior to declaring a breach of contract by any Authorized User, by certified or registered mail, notify both the Purchasing Agent and the purchasing official of the breaching Authorized User of the specific facts, circumstances and grounds upon which a breach will be declared. It is understood, however, that if the Contractors basis for declaring a breach is insufficient, the Contractors declaration of breach and failure to service an Authorized User shall constitute a breach of its contract and the County or Authorized User may thereafter utilize any remedy available at law or equity.

63. INTEREST ON LATE PAYMENTS

(a) County Agencies The payment of interest on certain payments due and owed by a County agency may be made in accordance with Section 3-a of the *General Municipal Law* at the rate of three percent (3%) per annum.

(b) By Non-County Agencies The terms of Article 11-A apply only to procurements by and the consequent payment obligations of the County. Neither expressly nor by any implication is the County responsible for payments on any purchases made by a Non-County Agency

Authorized User.

(c) By Contractor Should the Contractor be liable for any payments to the County hereunder, interest, late payment charges and collection fee charges will be determined and assessed pursuant to Section 18 of the *State Finance Law to* the same extent as though the contract was with the State of New York rather than the County.

64. REMEDIES FOR BREACH It is understood and agreed that all rights and remedies afforded below shall be in addition to all remedies or actions otherwise authorized or permitted by law:

(a) Cover / Substitute Performance Upon the failure of the Contractor to properly perform within the time specified, failure to provide acceptable service, to make immediate replacement of rejected Product when so requested, or upon the revocation of the Contract by the Purchasing Agent for cause, or upon repudiation of the contract by the Contractor, the Purchasing Agent may, with or without formally bidding same:

i. Purchase from other sources to replace the Product rejected, revoked, not timely delivered or repudiated; or

ii. If after making reasonable attempts, under the circumstances then existing, to timely provide acceptable service or acquire replacement product of equal or comparable quality, the Purchasing Agent is unsuccessful, the Purchasing Agent may acquire acceptable service or replacement product of lesser or greater quality.

Such purchases may, in the discretion of the Purchasing Agent, be deducted from the contract quantity.

(b) Withhold Payment In any case where a question of non-performance by Contractor arises, payment may be withheld in whole or in part at the discretion of the Purchasing Agent. Should the amount withheld be finally paid, a cash discount originally offered may be taken as if no delay in payment had occurred.

(c) Reimbursement of Costs Incurred The Contractor agrees to reimburse the County and/or Authorized User promptly for any and all additional costs and expenses incurred for acquiring acceptable services, and/or replacement Product. Should the cost of cover be less than the contract price, the Contractor shall have no claim to the difference. The Contractor covenants and agrees that in the event suit is successfully prosecuted for any default on the part of the Contractor, all costs and expenses expended or incurred by the County or Authorized User in connection therewith, including reasonable attorneys fees, shall be paid by the Contractor.

Where the Contractor fails to timely deliver pursuant to the guaranteed delivery terms of the contract, the Purchasing Agent may authorize an ordering Authorized User to rent substitute equipment temporarily. Any sums expended for such rental shall, upon demand, be reimbursed to the Authorized User promptly by the Contractor or deducted by the Authorized User from payments due or to become due the Contractor on the same or another transaction.

(d) Deduction / Credit Sums due as a result of these remedies may be deducted or offset by the County or Authorized User from payments due, or to become due, the Contractor on the same or another transaction. If no deduction or only a partial deduction is made in such fashion the Contractor shall pay to the County or Authorized User the amount of such claim or portion of the claim still outstanding, on demand. The Purchasing Agent reserves the right to determine the disposition of any rebates, settlements, restitution, liquidated damages, etc. which arise from the administration of the contract.

65. ASSIGNMENT OF CLAIM Contractor hereby assigns to the County any and all its claims for overcharges associated with this contract which may arise under the antitrust laws of the United States, 15 U.S.C. Section 1, *et seq.* and the antitrust laws of the State of New York, *General Business Law* Section 340, *et seq.*

66. TOXIC SUBSTANCES Each Contractor furnishing a toxic substance as defined by Section 875 of the *Labor Law,* shall provide such Authorized User with not less than two copies of a material safety data sheet, which sheet shall include for each such substance the information outlined in Section 876 of the *Labor Law.*

Before any chemical product is used or applied on or in any building, a copy of the product label and Material Safety Data Sheet must be provided to and approved by the user agency representative.

67. INDEPENDENT CONTRACTOR It is understood and agreed that the legal status of the Contractor, its agents, officers and employees under this Contract is that of an independent contractor, and in no manner shall they be deemed employees of the County or Authorized User, and therefore are not entitled to any of the benefits associated with such employment. The Contractor agrees, during the term of this contract, to maintain at Contractors expense those benefits to which its employees would otherwise be entitled by law, including health benefits, and all necessary insurance for its employees, including workers compensation, disability and unemployment insurance, and to provide the Authorized User with certification of such insurance upon request. The Contractor remains responsible for all applicable federal, state and local taxes, and all FICA contributions.

68. SECURITY / CONFIDENTIALITY Contractor warrants, covenants and represents that it will comply fully with all security procedures of the County and any Authorized User(s) in performance of the Contract.

Contractor further warrants, covenants and represents that any confidential information obtained by Contractor, its agents, subcontractors, officers, or employees in the course of performing its obligations, including without limitation, security procedures, business operations information, or commercial proprietary information in the possession of the County or any Authorized User hereunder or received from another third party, will not be divulged to any third parties. Contractor shall not be required to keep confidential any such confidential material which is publicly available through no fault of Contractor, independently developed by Contractor without reliance on confidential information of the County or Authorized User, or otherwise obtained under the Freedom of Information Act or other applicable New York State Laws and Regulations. This warranty shall survive termination of this Contract for a period of five (5) years. Contractor further agrees to take appropriate steps to instruct its personnel, agents, officers and any subcontractors regarding the obligations arising under this clause to insure such confidentiality.

69. COOPERATION WITH THIRD PARTIES The Contractor shall be responsible for fully cooperating with any third party agents, including but not limited to subcontractors of the Authorized User, relating to delivery of product or coordination of services.

70. CONTRACT TERM - EXTENSION In addition to any stated renewal periods in the Contract, any contract or unit portion thereof let by the Purchasing Agent may be extended by the Purchasing Agent for an additional period(s) of up to one year (cumulatively) with the written concurrence of the Contractor.

71. WARRANTIES & GUARANTEES Contractor hereby warrants and guarantees:

(a) To fully defend, indemnify and save harmless the County, Authorized Users and their respective officers, agents and employees from suits, actions, damages and costs of every name and description arising out of the acts or omissions of Contractor, its officers, employees,

subcontractors, partners, or agents, in any performance under this contract including: i) personal injury, damage to real or personal tangible or intangible property, without limitation; ii) negligence, either active or passive, without limitation, or iii) infringement of any law or of a United States Letter Patent with respect to the Products furnished, or of any copyright, trademark, trade secret or other third party intellectual proprietary rights, without limitation, provided that the County or Authorized User shall give Contractor: (a) prompt written notice of any action, claim or threat of infringement suit, or other suit, promptness of which shall be established by Authorized User upon the furnishing of written notice and verified receipt, (b) the opportunity to take over, settle or defend such action, claim or suit at Bidders sole expense, and (c) assistance in the defense of any such action at the expense of Contractor. Where a dispute or claim arises relative to a real or anticipated infringement, the County or Authorized User may require Bidder/Contractor, at its sole expense, to submit such information and documentation, including formal patent attorney opinions, as the Purchasing Agent shall require.

(b) Contractor warrants full ownership, clear title free of all liens, or perpetual license rights to any Products transferred to Authorized User under this Contract, and Contractor shall be solely liable for any costs of acquisition associated therewith without limitation. Contractor warrants that Authorized User will have undisturbed, peaceful use of the Products, including, without limitation, software, object or source codes, custom programming or third party intellectual property rights incorporated or embedded therein, and training modules or Documentation. Contractor fully indemnifies the County and Authorized User for any loss, damages or actions arising from a breach of said warranty without limitation.

(c) To pay, at its sole expense, all applicable permits, licenses, tariffs, tolls and fees and give all notices and comply with all laws, ordinances, rules and regulations of any governmental entity in conjunction with the performance of obligations under the contract.

(d) Unless recycled or recovered materials are available in accordance with the "Recycled & Recovered Materials" clause, Product offered shall be standard new equipment, current model of regular stock product with all parts regularly used with the type of equipment offered; and no attachment or part has been substituted or applied contrary to the manufacturers recommendations and standard practice. Every Product, including any substituted or replacement unit delivered, must be guaranteed against faulty material and workmanship for a period of one year from and after the date the unit is accepted unless otherwise specified by the County or Authorized User. Notwithstanding the foregoing, when the manufacturers standard guarantee for Product or any component thereof exceeds one year, the longer guarantee period shall apply to such unit or component thereof delivered under this contract. Furthermore, the Contractor agrees to extend its warranty period with regard to any Product delivered by the cumulative periods of time, after notification, during which the Product requires servicing or replacement (down time) or is in the possession of the Contractor, its agents, officers or employees. If during the regular or extended warranty periods faults develop, the Contractor shall promptly repair or, upon demand, replace the defective unit or component part affected. All costs for labor and material and transportation incurred to repair or replace defective goods during the warranty periods shall be borne solely by the Contractor, and the County or Authorized User shall in no event be liable or responsible therefore. This warranty shall survive any termination of the contract in accordance with the warranty term.

(e) Where the provision of services requires the replacement or repair of Product, any replaced or repaired component, part or Product shall be new and shall, if available, be replaced by the original manufacturers component, part or Product. All proposed substitutes for the original manufacturers installed Product must be approved by the Authorized User before installation. The Product or part shall be equal to or of better quality than the original Product being replaced. Any Product replaced by the Contractor under the contract shall be guaranteed for one (1) year from the date of replacement and replaced at no cost to the Authorized User if found defective during that time.

(f) Prior to award and during the Contract term and any renewals thereof, Contractor must establish to the satisfaction of the Purchasing Agent that it meets or exceeds all requirements of the bid and any applicable laws, including but not limited to, permits, insurance coverage, licensing, proof of coverage for workman's compensation, and shall provide such proof as required by the Purchasing Agent. Failure to do so may constitute grounds for the County to cancel or suspend this contract, in whole or in part, or to take any other action deemed necessary by the Purchasing Agent.

The Contractor further warrants and guarantees:

i. His/Her/Its products against defective material or workmanship and to repair or replace any damages or marring occasioned in transit.

ii. To furnish adequate protection from damage for all work and repair damages of any kind for which he or his workmen are responsible, to the building or equipment, to his own work, or to the work of other successful bidders.

iii. To carry adequate insurance to protect the County from loss in case of accident, fire, theft, etc.

iv. That all deliveries will be equal to the accepted bid sample.

v. That the equipment delivered is standard, new, latest model of regular stock product or as required by the specifications; also that no attachment or part has been substituted or applied contrary to manufacturer's recommendations and standard practice. Every unit delivered must be guaranteed against faulty material and workmanship for a period of at least one year from date of delivery. If during this period such faults develop, the successful bidder agrees to replace the unit or the part affected without cost to the County. Any merchandise provided under the contract which is or becomes defective during the guarantee period shall be replaced by the successful bidder free of charge with the specific understanding that all replacements shall carry the same guarantee as the original equipment The successful bidder shall make any such replacement immediately upon receiving notice from the County.

vi. That all manufacturers product warranties and guarantees shall be furnished to the County, and that the County's rights thereunder shall not be in any way impaired or limited.

72. YEAR 2000 WARRANTY The following Year 2000 warranty applies to procurements of:

A) **Product,** including: i) equipment incorporating embedded software or other technology (e.g. copiers, elevators, security systems), ii) software, or iii) other technology; or

B) **Services** including: i) consulting, integration, code or data conversion ii) maintenance or support services, iii) data entry or processing, or iv) contract administration services (e.g. billing, invoicing, claim processing).

This Year 2000 Warranty shall survive beyond termination or expiration of the Contract through: a) one year, b) December 31, 2000, or c) the Contractor or Third Party Manufacturers stated Year 2000 warranty term, whichever is longer. Nothing in this warranty statement shall be construed to limit any rights or remedies otherwise available under this Contract for breach of warranty.

(a) **Definitions** For purposes of this warranty, the following definitions shall apply:

i. **"Product"** shall include, without limitation: any piece or component of equipment, hardware, firmware, middleware, custom or commercial software, or internal

components or subroutines therein which perform any date/time data recognition function, calculation, comparing or sequencing. Where services are furnished (e.g., maintenance, consulting, systems integration, code or data conversion, data entry) the term "Product" shall include resulting deliverables.

ii. "Contractors Product" shall include all Product delivered under this Contract by Contractor other than Third Party Products.

iii. "Third Party Product" shall include product manufactured or developed by a corporate entity independent from Contractor and provided by Contractor on a non-exclusive licensing or other distribution agreement with the third party manufacturer. "Third Party Product" does not include product where Contractor is: (a) a corporate subsidiary or affiliate of the third party manufacturer/developer; and/or (b) the exclusive re-seller or distributor of product manufactured or developed by said corporate entity.

(b) Warranty Disclosure At the time of bid for individual or agency specific contracts, or at the time of ordering Product or Product quote for Essex County centralized contracts, Contractor must disclose in writing to Authorized User:

i. For Contractor Product and Products (including, but not limited to, Contractor and/or Third Party Products and/or Authorized Users Installed Products) which have been specified to perform as a system: Compliance or non-compliance of the Products individually and as a system with the Warranty set forth below; and

ii. For Third Party Product not specified to perform as part of a system: compliance on the grounds that the Contractor has passed-through the third party manufacturer Year 2000 Warranty or non-compliance based upon the fact that a) Contractor indicates that they can not pass through the third party manufacturers Year 2000 Warranty or b) there is no third party manufacturers Year 2000 Warranty to pass through.

NOTE: AN ABSENCE OR FAILURE TO FURNISH THE REQUIRED WRITTEN WARRANTY DISCLOSURE SHALL BE DEEMED A STATEMENT OF COMPLIANCE BY THE CONTRACTOR OF THE PRODUCT(S) OR SYSTEM(S) IN QUESTION WITH THE YEAR 2000 WARRANTY STATEMENT SET FORTH BELOW.

(c) Year 2000 Warranty Year 2000 Warranty "compliance" shall be defined in accordance with the following warranty statement:

Warranty Statement: Contractor warrants that Product(s) furnished pursuant to this Contract shall, when used in accordance with the Product documentation, be able to accurately process date/time data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000, including leap year calculations. Where a purchase requires that specific Products must perform as a package or system, this warranty shall apply to the Products as a system.

In the event of any breach of this warranty, Contractor shall restore the Product to the same level of performance as warranted herein, or repair or replace the Product with conforming Product so as to minimize interruption to Authorized Users ongoing business processes, time being of the essence, at Contractors sole cost and expense. This warranty does not extend to correction of Authorized Users errors in data entry or data conversion.

(d) YEAR 2000 Warranty on Services Where Contractor is providing ongoing services,

including but not limited to: i)consulting, integration, code or data conversion ii) maintenance or support services, iii) data entry or processing, or iv) contract administration services (e.g. billing, invoicing, claim processing), in addition to the foregoing Year 2000 warranty on service deliverables, Contractor warrants that services shall be provided in an accurate and timely manner without interruption, failure or error due to the inaccuracy of Contractors business operations in processing date/time data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000, including leap year calculations. Contractor shall be responsible for damages resulting from any delays, errors or untimely performance resulting therefrom, including but not limited to the failure or untimely performance of such services.

GENERAL

73. APPLICABILITY In addition to the terms contained in **Part I** *(General - All Procurements),* the terms contained in **Part II** ***(Software & Technology Procurements)*** apply to software and technology procurements.

74. DEFINITIONS - Part II

DOCUMENTATION The complete set of manuals (e.g. user, installation, instruction or diagnostic manuals) in either hard or electronic copy, necessary to enable an Authorized User to properly test, install, operate and enjoy full use of the Product in accordance with the license rights.

ENTERPRISE The business operations in the United States of a Licensee or Enterprise Participant, without regard to geographic location where such operations are performed or the entity actually performing such operations on behalf of Licensee or Enterprise Participant. For the County of New York, "business operations" shall be defined as the business operations of all Agencies, as defined in Part I.

ENTERPRISE LICENSE A contract which grants Enterprise Participants unlimited license rights to access, use and/or execute Product within the Enterprise.

ENTERPRISE PARTICIPANTS One or more Licensees, as defined in Part I, participating in an Enterprise License.

LICENSE EFFECTIVE DATE The date Product is delivered to an Authorized User. Where a License involves Licensees right to copy a previously licensed and delivered Master Copy of a Program, the license effective date for additional copies shall be deemed to be the date on which the Purchase Order is executed.

LOGICAL PARTITION A subset of the processing power within a CEC which has been divided through hardware and/or software means (i.e. *Processor Resources/System Manager* [PR/SM]) so as to limit the total processing power which is accessible by an operating system image by individual users or individual software products.

OBJECT CODE The machine executable code that can be directly executed by a computers central processing unit(s).

PHYSICAL PARTITION A subset of the processing power within a CEC which has been derived through hardware means so as to limit the total processing power accessible by an operating system image by individual users or individual Products.

SITE The location (street address) where Product will be executed.

SOURCE CODE The programming statements or instructions written and expressed in any language

understandable by a human being skilled in the art which are translated by a language compiler to produce executable machine Object Code.

TERMS OF LICENSE The terms and conditions set forth in the Contract which are in effect and applicable to a Product order at the time of order placement, and only such additional terms as are consistent therewith or more advantageous to the Authorized User as are set forth on the individual Product order form executed and approved by both Authorized User and Contractor.

VIRUS Any computer code, whether or not written or conceived by Contractor, which disrupts, disables, harms, or otherwise impedes in any manner the operation of the Product, or any other associated software, firmware, hardware, or computer system (such as local area or wide-area networks), including aesthetic disruptions or distortions, but does not include security keys or other such devices installed by Product manufacturer.

TERMS AND CONDITIONS

75. SOFTWARE LICENSE GRANT *Unless otherwise set forth in the Bid Specifications or Contract, where Product is acquired on a licensed based the following shall constitute the license grant:*

(a) License Scope Licensee is granted a non-exclusive, perpetual license to use, execute, reproduce, display, perform, or merge the Product with other product within its business enterprise in the United States. Licensee shall ha\~e the right to use and distribute modifications or customizations of the Product to and for use by any Authorized Users otherwise licensed to use the product, provided that any modifications, however extensive, shall not diminish manufacturers proprietary title or interest. No license, right or interest in any trademark, trade name, or service mark is granted hereunder.

(b) License Term The license term shall commence upon the License Effective Date. Where the terms of license permit licensing on a non-perpetual basis, the license term stated in the Contract shall be extended by the time periods allowed for testing and acceptance.

(c) Licensed Documentation Contractor hereby grants to Licensee a perpetual license right to make, reproduce (including downloading electronic copies of the Product) and distribute, either electronically or otherwise, copies of Product Documentation as necessary to enjoy full use of the Product. If commercially available, Licensee shall have the option to require the Contractor to deliver, at Contractors expense: a) One (1) hard copy and One (1) Master Electronic Copy of the Documentation in diskette or CD-ROM format; or b) hard copies of the Product Documentation by type of license in the following amounts, unless otherwise mutually agreed:

- Individual/Named User License – 1 copy per License
- Concurrent Users – 8 copies per site
- Processing Capacity – 8 copies per site

(d) Product Use Product may be accessed, used, executed, reproduced, displayed, performed by Licensee to service all Authorized Users of the machine on which Product is installed, up to the capacity measured by the applicable licensing unit stated in the terms of license (i.e. payroll size, number of employees, CPU, MIPS, MSU, concurrent user, workstation).

(e) Permitted License Transfers As Licensee's business operations may be altered, expanded or diminished, licenses granted hereunder may be transferred or combined for use at an alternative or consolidated Authorized User site not originally specified in the license, including transfers between Agencies ("permitted license transfers"). Licensee(s) do not have to obtain the approval of Contractor for permitted license transfers, but must give thirty (30) days

prior written notice to Contractor of such move(s) and certify in writing that the Product is not in use at the prior site. There shall be no additional license or other transfer fees due Contractor, provided that: i) the maximum capacity of the consolidated machine is equal to the combined individual license capacity of all licenses running at the consolidated or transferred site. (e.g., named users, seats, or MIPS); and ii) that, if the maximum capacity of the consolidated machine is greater than the individual license capacity being transferred, a logical or physical partition or other means of restricting access will be maintained within the computer system so as to restrict use and access to the Product to that unit of licensed capacity solely dedicated to beneficial use for Licensee.

(f) Restricted Use By Outsourcers / Facilities Management, Service Bureaus / or Other Third Parties Outsourcers, facilities management or service bureaus retained by Licensee shall have the right to use the Product to maintain Licensee's business operations, including data processing, for the time period that they are engaged in such activities, provided that: 1) Licensee gives notice to Contractor of such party, site of intended use of the Product, and means of access; and 2) such party has executed, or agrees to execute, the Product manufacturers standard nondisclosure or restricted use agreement which executed agreement shall be accepted by the Contractor ("NonDisclosure Agreement"); and 3) if such party is engaged in the business of facility management, outsourcing, service bureau or other services, such third party will maintain a logical or physical partition within its computer system so as to restrict use and access to the program to that portion solely dedicated to beneficial use for Licensee. In no event shall Licensee assume any liability for third partys compliance with the terms of the Non-Disclosure Agreement, nor shall the Non-Disclosure Agreement create or impose any liabilities on the County or Licensee.

Any third party with whom a Licensee has a relationship for a state function or business operation, shall have the temporary right to use Product (using, for example, but not limited to, JAVA Applets), provided that such use shall be limited to the time period during which the third party is using the Product for the stated function or business activity.

(g) Archival Back-Up and Disaster Recovery Licensee may use and copy the Product and related Documentation in connection with: 1) reproducing a reasonable number of copies of the Product for archival backup and disaster recovery procedures in the event of destruction or corruption of the Product or disasters or emergencies which require Licensee to restore backup(s) or to initiate disaster recovery procedures for its platform or operating systems; 2) reproducing a reasonable number of copies of the Product and related documentation for cold site storage. "Cold Site" storage shall be defined as a restorable back-up copy of the Product not to be installed until and alter the declaration by the Licensee of a disaster; 3) reproducing a back-up copy of the Product to run for a reasonable period of time in conjunction with a documented consolidation or transfer otherwise allowed under paragraph (F) above. "Disaster Recovery" shall be defined as the installation and storage of Product in ready-to-execute, back-up computer systems prior to disaster or breakdown which is not used for active production or development.

(h) Confidentiality Restrictions The Product is a trade secret and proprietary product. Licensee and its employees will keep the Product strictly confidential, and Licensee will not disclose or otherwise distribute or reproduce any Product to anyone other than as authorized under the terms of license. Licensee will not remove or destroy any proprietary markings of Contractor.

(i) Restricted Use by Licensee Except as expressly authorized by the terms of license, Licensee shall not:

a. Copy the Product;

b. Cause or permit reverse compilation or reverse assembly of all or any portion of the Product;

c. Distribute, disclose, market, rent, lease or transfer to any third party any portion of the Product or the Documentation, or use the Product or Documentation in any service bureau arrangement;

d. Disclose the results of Product performance benchmarks to any third party who is not an Authorized User without prior notice to Contractor;

e. Export the Licensed Software in violation of any U.S. Department of Commerce export administration regulations.

76. ENTERPRISE LICENSE OPTION FOR SOFTWARE Multiple Authorized Users may license any Product offered under the Contract on behalf of their collective business operations. An Enterprise License shall incorporate the terms set forth in this Part II and the pricing set forth in the Contract, and additionally the following terms:

(a) Enterprise – Defined Any Authorized User may be an Enterprise Participant. Enterprise Participants will be enumerated in the Enterprise License, including: i) contact name, ship to and main billing address of each Enterprise Participant, ii) street address of the included End User sites of each Enterprise Participant. The originally defined Enterprise may be modified at any time thereafter, including deletion or addition of Enterprise Participants, sites ownership to" locations, provided that Contractor is given written notice and that any additional capacity required by such addition is licensed in accordance with the Enterprise License terms.

(b) Product Use Product licensed under this Enterprise Option shall be licensed with the rights set forth in this Part II, without reference to a specific designated system or Licensee, up to the maximum licensed capacity. Product may be used and freely transferable anywhere within the defined Enterprise, including higher or lower performance machines, and Enterprise Participants will not incur an increase in license, support or other charges provided that the aggregate utilization of the Product does not exceed the aggregate Enterprise Licensed capacity.

(c) Submission of Orders, Billing and Usage Reporting An Enterprise may be established for order placement and billing as either a "single" or "multiple" point of contact, at Licensees option. Where designated as a "single", one Enterprise Participant shall be designated as the lead agency and central point for submission of Purchase Orders, usage reporting and billing. Where designated as "multiple" point of contact, each designated Enterprise Participant shall be responsible for submission of Purchase Orders, reporting and billing with regard to its use of Enterprise Licensed Product. For either single or multiple point of contact Enterprises, a) Contractor agrees to hold each Enterprise Participant solely responsible for payment and performance; and b) Contractor shall be responsible for furnishing an annual report to each designated point of contact summarizing overall Enterprise License activity for the preceding twelve months.

(d) Shipping / Delivery Contractor shall be responsible for delivery of Master Copies of Enterprise Licensed Product and documentation to Enterprise Participants. Within either "Single" or "Multiple" Enterprise Licenses, shipping and delivery of Master Copies of Product and Documentation shall be the responsibility of Contractor to each "ship to" location specified on the Purchase Order(s). Distribution and installation of Enterprise Licensed Product to End Users at a site shall be the responsibility of the Licensee.

(e) Enterprise Operating Systems Unless otherwise specified by the parties, up to ten (10) hardware/operating system combinations for Product shall be included at no additional charge.

The initial ten hardware/operating systems may be specified at any time within five (5) years of the Enterprise License effective date. Additional hardware/operating systems beyond the initial ten (10) may be specified at anytime by the Enterprise, however if additional copies of Product are required for hardware/operating systems beyond the initial ten, the cost for such systems will be as mutually agreed between the parties.

(f) Product Acceptance Each Enterprise Participant shall have a right of acceptance, as set forth above in this Part II, only for the first copy of Product for its site(s).

(g) Enterprise Fees Enterprise License Fees shall be set forth in the Contract. Notwithstanding the foregoing, the Product license fees for additional copies or units of capacity for Enterprise licensed Product shall not increase by more than six percent (6%) annually each year during the Enterprise License term. Contractor may offer additional discounts/incentives for Enterprise Participants as may be mutually agreed between the parties. Enterprise Participants shall be entitled to aggregate the volume of all Enterprise Participants for purposes of establishing any applicable discounts under the Contract, and Enterprise Licensed Volume shall be aggregated with volume of non-Enterprise Licensed Product otherwise purchased under the centralized Contract. Upon termination of the Enterprise, Enterprise Participants have the right to acquire additional capacity or users at the Enterprise License price for twelve months after the termination of the Enterprise License.

(h) Technical Support Unless otherwise mutually agreed, technical support is optional and may be elected individually by Product by each Enterprise Participant. Where an Enterprise Participant is under a current maintenance or technical support contract, such Enterprise Participant shall be entitled to credit any support paid covering any portion of the Enterprise License Term to the fees due under the Enterprise license.

Enterprise Participants shall have the right to partially or wholly de-support a subset of unused Enterprise licensed capacity upon written notice to Contractor at the end of any then - current technical support term without penalty or charge. The capacity for a Program license which has been de-supported must remain inactive and may not be used within the Enterprise unless technical support for such capacity has been reinstated. In the event of de-support, Contractor reserves the right to reasonably determine compatibility of future releases or new programs prior to shipment.

(i) Merger of Two or More Enterprises Two or more Enterprises may be merged to form a larger Enterprise for the purpose of sharing and exchanging data at no additional license fee provided that participants give Contractor notice of such merger and that the combined capacity does not exceed the maximum capacity of the individual licenses.

(j) "Nested" Enterprises Individual Enterprise License participant(s) may license additional capacity or products for the specific use of a subset of the larger enterprise. Said participant(s) must certify in writing to Contractor that such use is only by the enumerated subset of participants.

(k) Default A default by any Enterprise Participant shall entitle the Contractor to the remedies against such participant under the Contract, but shall not be deemed a default by the remaining non-defaulting Enterprise Participants.

77. PRODUCT ACCEPTANCE Unless otherwise provided in the Bid Specifications, the County and/or Authorized User(s) shall have sixty (60) days from delivery to accept Product. Failure to provide notice of acceptance or rejection by the end of the period provided for under this clause would constitute acceptance by the County or Authorized User(s) as of the expiration of that period.

Unless otherwise provided in the Bid Specifications, The County or Authorized User shall have

the option to run acceptance testing on the Product prior to acceptance, such tests and data sets to be specified by User. Where using its own data or tests, The County or Authorized User must have the tests or representative set of data available upon delivery. This demonstration will take the form of a documented installation test, capable of observation by the County or Authorized User, and shall be made part of the Contractors standard documentation. The test data shall remain accessible to the County or Authorized User after completion of the test.

In the event that the documented installation test cannot be completed successfully within sixty (60) days from delivery, and the Contractor or Product is responsible for the delay, The County or Authorized User shall have the option to cancel the order in whole or in part, or to extend the testing period for another sixty (60) day increment. The County or Authorized User shall notify Contractor of acceptance upon successful completion of the documented installation test. Such cancellation shall not give rise to any cause of action against the County or Authorized User for damages, loss of profits, expenses, or other remuneration of any kind.

Costs and liabilities associated with a failure of the Product to perform in accordance with the functionality tests or product specifications during the acceptance period shall be borne fully by Contractor to the extent that said costs or liabilities shall not have been caused by negligent or willful acts or omissions of the The County or Authorized Users agents or employees. Said costs shall be limited to fees paid to Contractor, if any, or any liability for costs incurred at the direction or recommendation of Contractor.

78. AUDIT OF LICENSED PRODUCT USAGE Contractor shall have the right to periodically audit, at its expense, use of licensed Product at any site where a copy of the Product resides provided that: i) Contractor gives Licensee or Enterprise Participants at least thirty (30) days advance notice, ii) such audit is conducted during such party's normal business hours iii) each Licensee or Enterprise Participant is entitled to designate a representative who shall be entitled to participant and simultaneously review all information obtained by the audit, and shall be entitled to copies of all reports, data or information obtained by the Contractor; and iv) if the audit shows that such party is not in compliance such party shall be liable for the unlicensed capacity and shall be required to purchase the additional units or rights necessary to bring it into compliance.

79. OWNERSHIP / TITLE TO CUSTOM PRODUCTS OR PROGRAMMING Where contract deliverables include custom products or programming, title, rlghts and interests to such Product(s) shall be determined as follows:

(a) Definitions

Product For purposes of this section, the term "Product" shall have the meaning set forth in Part I of these *General Specifications,* which includes, but is not limited to: software applications or programming, programming tools, documentation ~including user or training manuals), modules, interfaces, templates, and other elements such as utilities, subroutines, algorithms, formulas, source code, object code, reports, drawings, or data.

"Existing Product" is defined as any proprietary material(s) existing or developed independently and not at the expense of Licensee.

"Custom Product" is defined as any material(s), exclusive of Existing Product, created, prepared, written, compiled or developed by Contractor, or anyone acting on his behalf for The County or Authorized User pursuant to the Contract.

(b) Contractor or Third Party Manufacturers Title to Existing Product Title to Existing Product(s) does not transfer. With respect to such Existing Product(s), whether embedded in or operating in conjunction with Custom Product, Contractor warrants: a) all right, title and interest in Contractors Existing Product(s); or b) all license rights, title and interest in third party Existing

Product(s), which include the right to grant to The County or Authorized User an irrevocable, non-exclusive, worldwide, paid-up license to use, execute, reproduce, display, perform, and distribute Existing Product(s). Contractor hereby grants a irrevocable, non-exclusive, worldwide, paid-up license to use, execute, reproduce, display, perform, and distribute Existing Product(s) embedded in or transferred for use in conjunction with Custom Product(s). The Licensee agrees to reproduce the copyright notice and any other legend of ownership on any copies made under the license granted under this paragraph prior to distribution or use.

(c) Title to Custom Product Title to Custom Product(s), excluding Existing Product, shall be deemed the sole and exclusive property of the County or Authorized User, who shall have all right, title and interest (including ownership and copyrights). For the purposes of the federal copyright law, execution of this contract shall constitute an assignment of all right, title and interest in the Custom Product(s) by Contractor to the County or Authorized User. The County or Authorized User, in its sole discretion, reserves the right to sell Custom Product or to license them on an exclusive or non-exclusive basis to Contractor or other Third Parties. Contractor hereby agrees to take all necessary and appropriate steps to ensure that Custom Product is protected against unauthorized use, execution, reproduction, display, performance, or distribution by or through Contractor, its partners or agents. Notwithstanding this reservation of title, Contractor shall not be precluded from using the related or underlying general knowledge, skills and experience developed in the course of providing the Custom Product in the course of Contractor's business.

(d) Acquisitions Funded By Tax Exempt Financing In addition to the foregoing rights under a, b and c, the sale or licensing of Custom Product or rights therein shall not occur until such Product or rights are or become useable, and shall be at fair market value which shall be determined at the time of sale or licensing. Any such transfer shall be pursuant to a separate written agreement. If the Contract deliverables are to be funded through tax exempt financing, the County or Authorized User may assign to a Trustee or other entity for security purposes County or Authorized Users ownership and license rights in Custom and Existing Products. Contractor will cooperate with the County or Authorized User to execute such other documents as may be appropriate to achieve the objectives of this paragraph.

(e) Other Acquisitions (Not Funded by Tax Exempt Financing) In addition to the rights set forth above (paragraphs "a", "b" and "c"), the County or Authorized User reserves the right to transfer any or all rights to Custom Materials on an exclusive or non-exclusive basis. Where such transfer (sale or licensing) is provided in the Bid Specifications, Contractor shall include a purchase price for such rights in its bid. Such price shall be offered as a deduction from Contractor's overall Bid or Project Bid price, and shall be weighted as set forth in the bid evaluation criteria, if any. Such rights shall transfer to the successful Bidder/Contractor upon successful completion and acceptance by the County or Authorized User of all contract deliverables. Contractor will cooperate with the County or Authorized User to execute such other documents as may be appropriate to achieve the objectives of this paragraph.

80. PROOF OF LICENSE The Contractor must provide to each Licensee who places a Product order either: a) the Product manufacturer's certified License Confirmation Certificates in the name of each such Licensee; or b) a written confirmation from the Product manufacturer accepting Contractors Product invoice as proof of license. Bidder or Contractor shall submit a sample manufacturers certificate, or alternatively such written confirmation from the manufacturer, with the Bid or Contract. Such certificates must be in a form acceptable to the Licensee.

81. PRODUCT VERSION Product orders shall be deemed to reference Manufacturers most recently released model or version of the Product at time of delivery, unless an earlier model or version is specifically requested in writing by the County or Authorized User and Contractor is willing to provide such version.

82. MIGRATION TO CENTRALIZED CONTRACT The County or Authorized User may obtain

additional Product authorized under this contract, (e.g., licensed capacity upgrades, new releases, documentation, maintenance, consulting or training) whether or not Product was initially obtained independently of this contract. The County or Authorized Users election to obtain additional Product shall not operate to diminish, alter or extinguish rights previously granted.

83. NOTICE OF PRODUCT DISCONTINUANCE In the event that a Product manufacturer proposes to discontinue maintenance or support for Product, Contractor shall (1) notify the County and each Authorized User in writing of the intended discontinuance, and (2) continue to provide maintenance and support for the greater of: a) the best terms offered by Contractor to any other customer, or b) not less than eighteen (18) months from the date of notice, and (3) at The County or Authorized Users option, either a) provided that the County or Authorized User is under maintenance, provide the County or Authorized User with either a Product replacement with equivalent functionality at no additional charge, or b) provide County or Authorized User with the source code for Licensed Product at no additional charge to enable it to continue use and maintenance of the Product.

84. REINSTATEMENT OF MAINTENANCE The County or Authorized User shall not be required to purchase maintenance for use of Product, and may discontinue maintenance at the end of any current maintenance term upon written notice to Contractor. In the event that The County or Authorized User discontinues maintenance of licensed Product, it may, at any time thereafter, reinstate maintenance for Product without any additional penalties or other charges, by paying Contractor at rates which would have been due under the contract for the period of time that such maintenance had lapsed, or for twelve months, whichever is less.

85. NO HARDSTOP / PASSIVE LICENSE MONITORING Contractor hereby represents, warrants and covenants that the Product and all Upgrades do not and will not contain any computer code that would disable the Product or Upgrades or impair in any way its operation based on the elapsing of a period of time, exceeding an authorized number of copies, advancement to a particular date or other numeral, or other similar self-destruct mechanisms (sometimes referred to as "time bombs", "time locks", or "drop dead" devices) or that would permit Contractor to access the Product to cause such disablement or impairment (sometimes referred to as a "trap door" device). Contractor agrees that in the event of a breach or alleged breach of this provision that The County or Authorized User shall not have an adequate remedy at law, including monetary damages, and that The County or Authorized User shall consequently be entitled to seek a temporary restraining order, injunction, or other form of equitable relief against the continuance of such breach, in addition to any and all remedies to which The County or Authorized User shall be entitled.

86. ADDITIONAL WARRANTIES / GUARANTEES Where Contractor or Product manufacturer offers additional or more advantageous warranties than set forth herein, Contractor shall offer or pass through any additional or more advantageous warranties to The County or Authorized Users. In addition to the 'Warranties/Guarantees" set forth in Part I, Contractor makes the following warranties.

(a) Product Performance Warranty Contractor represents and warrants that the Products delivered pursuant to this contract conform to the manufacturers specifications, performance standards, and documentation and that the documentation fully describes the proper procedure for using the Products in an efficient manner. Contractor does not warrant that software is error-free.

In the event that Contractor does not remedy a substantial breach of this warranty within the cure period, Licensee shall also have the right to terminate any payments due Contractor, with a refund of the any fees prospectively paid from the date of breach.

(b) Year 2000 Warranty For all procurements of Product, Contractor must furnish a warranty statement in accordance with the NYS Standard Year 2000 Warranty Compliance Statement set forth in Part I at the time of bid for agency specific contracts or product order for centralized contracts.

(c) Virus Warranty Contractor represents and warrants that Licensed Software contains no known viruses. Bidder is not responsible for viruses introduced at Licensees site. For purposes of this provision, "Virus" shall have the meaning set forth in Part II, "Definitions".

A breach of any of the foregoing shall be deemed a material breach of the Contract or any License granted thereunder. The defaulting party shall be given written notice of a warranty breach under this section and shall have a thirty (30) day period to cure such breach.

87. INDEMINIFICATION THE WARRANTIES SET FORTH IN THESE *GENERAL SPECIFICATIONS* (PARTS I and II) ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Contractor shall defend, indemnify and save harmless the County and Authorized Users from suits, actions, claims, damages and costs arising under or connected to Contractors actions, and except where express loss liabilities set forth elsewhere in the Contract provide for a higher loss limitation liability than as set forth in this paragraph, or where such express provisions impose Contractor liability on "without limitation", the total liability of Contractor for such claim(s), regardless of the nature and basis for the claim, shall not exceed two (2) times the fees paid for the applicable Product. For any suit, action, claim, damages or costs arising under or are connected to personal injury or property damage, or breach of the title, patent and copyright warranties, Contractor shall be fully liable without limitation.

The County or Authorized User may retain such moneys from the amount due Contractor as may be necessary to satisfy any claim for damages, costs and the like asserted by or against the County or Authorized User, provided however, that Contractor shall not indemnify each such entity to the extent that any claim, loss or damages arising hereunder is caused by the negligence act or failure to act of said entity.

88. SOURCE CODE ESCROW FOR LICENSED PRODUCTS If source code or source code escrow is offered by either Contractor or Product manufacturer/developer to any other commercial customers, Contractor either: i) will provide Licensee with the Source Code for the Product; or ii) place the Source Code in a third party escrow arrangement with a designated escrow agent who shall be named and identified to the County, and who shall be directed to release the deposited Source Code in accordance with a standard escrow agreement acceptable to the County, or iii) will certify to the County that the Product manufacturer/developer has named the County, and the Licensee, as a named beneficiary of an established escrow arrangement with its designated escrow agent who shall be named and identified to the County and Licensee, and who shall be directed to release the deposited Source Code in accordance with the terms of escrow. Source Code, as well as any corrections or enhancements to such source code, shall be updated for each new release of the Product in the same manner as provided above. Contractor shall identify the escrow agent upon commencement of the contract term and shall certify annually that the escrow remains in effect in compliance with the terms of this paragraph.

The County may release the Source Code to Licensees under this Contract who have licensed Product or obtained services, who may use such copy of the Source Code to maintain the Product.

MATERIAL AND PERFORMANCE SPECIFICATIONS

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ITEM 08520.5014 M - SAW CUTTING ASPHALT PAVEMENT, CONCRETE PAVEMENT AND ASPHALT OVERLAY ON CONCRETE PAVEMENT

DESCRIPTION:

Under this item, the contractor shall saw cut existing asphalt pavement, concrete pavement, asphalt surface course, or asphalt concrete overlay on concrete pavement at the locations indicated on the plans or where directed by the Engineer.

MATERIALS:

None specified.

CONSTRUCTION DETAILS:

Existing pavement and overlay shall be saw cut perpendicular to the roadway surface along neat lines, and to the depth indicated on the plans and typical sections. A power saw approved by the Engineer shall be used for cutting asphalt surface course and asphalt overlay. A power saw shall be used for cutting concrete pavement. After the existing asphalt pavement, concrete pavement, asphalt surface course or overlay has been saw cut through, the contractor may use pry bars, pneumatic tools or other methods approved by the Engineer, to pry loose the existing pavement from that pavement which is to remain. A pavement breaker, under the supervision of the Engineer, may be used to break up the pavement to be removed after the pavement has been completely saw cut through and completely free from the pavement to remain.

Any existing pavements and curbs not indicated to be removed that are damaged by the contractor's operations, shall be repaired by him to the satisfaction of the Engineer at no additional cost to the State.

METHOD OF MEASUREMENT:

The quantity to be measured will be the number of meters of saw cutting done in accordance with the plans, typical sections and the directions of the Engineer.

No saw cutting will be measured for payment under this item which the contractor may choose to do for his own convenience.

BASIS OF PAYMENT:

The unit price bid per meter of saw cutting shall include the cost of all labor, materials, and equipment necessary to complete the work.

Payment for removal and disposal of cut pavement shall be paid for under the appropriate excavation item.

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ITEM 16555.72 M - ARCHITECTURAL TREATMENT OF CONCRETE SURFACES

DESCRIPTION:

This work shall consist of forming architectural patterns within concrete surfaces at the locations indicated on the plans.

MATERIALS:

Any commercially produced form liner meeting the requirements of this subsection will be acceptable. The form liners shall:

1. Produce the pattern required by the plans.
2. Be composed of a material(s) that will not bond to concrete.
3. Be attachable to standard plywood, or steel, concrete forms, such that no distortion, or stray markings, occur within the concrete surfaces.

Form liners will be acceptable at the work site upon written certification that the requirements of this subsection have been met.

CONSTRUCTION DETAILS:

The requirements of subsection 555-3.03 shall apply except that no form release agents shall be applied to the installed form liner.

All attachments of form liner to concrete form shall be such that no distortion, or stray markings, occur within concrete surfaces exposed to view.

Special care shall be taken after installation to ensure that all form liner surfaces are thoroughly clean of all stray material of any nature. No concrete shall be placed prior to the Engineer's inspection and approval of form liner surfaces.

After form work removal, the Engineer will inspect architecturally patterned concrete surfaces. All such surfaces which do not exhibit the required architectural pattern shall be repaired in a manner satisfactory to the Engineer at no cost to the State. The repair shall match the concrete surface. Concrete repair material, if used, shall meet the requirements of Subsection 701-04.

METHOD OF MEASUREMENT:

The work will be measured as the number of square meters of architecturally patterned concrete produced. Measurement will be taken as the horizontal, or vertical plane projection of the architecturally patterned concrete. No measurement will be taken of actual concrete surfaces.

BASIS OF PAYMENT:

The unit price bid per square meter shall include the cost of all labor, material, and equipment necessary to complete the work.

Repair work shall be at the Contractor's expense.

Date Made Metric:
June 30, 1998

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ITEM 559.1696 18 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE

ITEM 559.1796 18 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE FOR EXISTING BRIDGE DECKS

DESCRIPTION. Under this work the Contractor shall furnish and apply, in accordance with this specification, a protective sealer to concrete surfaces, at locations indicated on the plans or where directed by the Engineer.

MATERIALS. The protective sealer used on concrete surfaces shall be one appearing on the Department's Approved List and shall meet the requirements of one of the following subsections:

717-03 - Penetrating Type Protective Sealers
717-04 - Coating Type Protective Sealers

CONSTRUCTION DETAILS.

A. **General.** Only penetrating type sealers shall be applied to walking or riding surfaces. The Contractor shall provide the Engineer with the sealer Manufacturer's written instructions for application and use, at least five (5) working days before the start of work. Only one (1) brand and specific type of sealer will be allowed for use on each individual element of a project (i.e. each pier, deck, abutment, etc.).

B. **Surface Preparation.**

1. **New Concrete.** All required surface texturing, and saw cut grooving, shall be completed before the surface is prepared. All concrete that is to be sealed shall air dry for fourteen (14) days after curing has been removed, or for the length of time specified in the manufacturer's written instructions, whichever is longer. If the concrete is subjected to rain or moisture from other project operations, the drying period shall be extended twenty-four (24) hours for every day the concrete is subjected to water. After the drying period has ended, the concrete surface shall be lightly sand or shot blasted, followed by vacuum cleaning, to remove loose particles.

2. **Existing Concrete.** Concrete surfaces to be sealed shall be thoroughly cleaned by light sand or shot blasting, followed by vacuum cleaning, to remove loose particles. If the concrete is subjected to rain or moisture from other project operations, the surface will be allowed to air dry for a minimum of forty-eight (48) hours before the sealer is applied.

Care shall be taken while blast cleaning that all dirt is removed with minimal exposure of coarse aggregate. After cleaning, no blasting residue, laitance, curing compounds, standing water, oil, dirt or other foreign particles shall be present, which may prevent penetration or adhesion of the sealer. All surface preparation work shall be completed and approved by the Engineer, before sealer application can commence.

C. **Weather Limitations.** Sealer materials shall not be applied during wet weather conditions or, if in the opinion of the Engineer, adverse weather conditions are anticipated within twelve (12) hours of the completion of sealer application. Ambient and surface temperatures shall be a minimum of 5_ C during application and until the sealed concrete is dry to the touch. Application by spray methods will not be permitted during windy conditions, if in the opinion of the Engineer unsatisfactory results will be obtained.

D. **Sealer Application.** The sealer shall be used as supplied by the Manufacturer without thinning or alteration, unless specifically required in the Manufacturer's instructions. Thorough mixing of

the sealer before and during its use shall be accomplished as recommended by the Manufacturer. Equipment for sealer application shall be clean of foreign materials and approved by the Engineer before use.

If a penetrating sealer is used, a minimum of two (2) coats of the sealer shall be applied to achieve uniform coverage. The total quantity of sealer applied by all coats shall be equal to the quantity required at the application rate specified in the Approved List. The second and each additional coat shall be applied perpendicular to the previous coat. Care shall be taken when applying each coat, such that running or puddling does not occur. Each coat shall be allowed to dry for a minimum of two (2) hours before the next coat is applied. The final coat shall be allowed to dry according to the manufacturer's instructions, before the removal of maintenance and protection of traffic.

On sloping and vertical concrete surfaces, sealer application shall progress from bottom to top. Care shall be taken to ensure that the entire surface of the concrete is covered and all pores filled.

METHOD OF MEASUREMENT. The work will be measured as the number of square meters of structural concrete sealed.

BASIS OF PAYMENT. The unit price bid per square meter shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work.

Payment will be made under:

Item No.	Item	Pay Unit
559.1696 18	Protective Sealing of Structural Concrete	Square Meter
559.1796 18	Protective Sealing of Structural Concrete for Existing Bridge Decks	Square Meter

ITEM 559.1896 18 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS

DESCRIPTION. Under this work the Contractor shall furnish and apply, in accordance with this specification, a protective sealer to concrete surfaces, at locations indicated on the plans or where directed by the Engineer.

MATERIALS. The protective sealer used on new concrete bridge decks shall be one appearing on the Department's Approved List, which does not contain an aqueous solvent/carrier and shall meet the requirements of the following subsection:

717-03 - Penetrating Type Protective Sealers

CONSTRUCTION DETAILS.

A. **General.** The Contractor shall provide the Engineer with the sealer manufacturer's written instructions for application and use, at least five (5) working days before the start of work. Only one (1) brand and specific type of sealer will be allowed for use on each deck.

B. **Surface Preparation.** All concrete bridge decks shall air dry for twenty-four (24) hours after the time of completion of saw cut grooving. If the concrete is subjected to rain or moisture from other project operations, the drying period shall be extended twenty-four (24) hours from the time that the concrete has stopped being wetted. All required surface texturing, saw cut grooving, barriers, parapets, sidewalks and safetywalks shall be completed, before the surface is cleaned. After the drying period has ended, the concrete surface shall be cleaned by vacuum methods, to remove loose particles.

After cleaning, no laitance, standing water, oil, dirt or other foreign particles shall be present, which may prevent penetration of the sealer. All surface preparation work shall be completed and approved by the Engineer before sealer application can commence.

C. **Weather Limitations.** Sealer materials shall not be applied during wet weather conditions or when adverse weather conditions are anticipated within twelve (12) hours of the completion of sealer application. Ambient and surface temperatures, during application, and until the sealed concrete is dry to the touch, shall be a minimum of 5_ C. Application by spray methods will not be permitted during windy conditions, if in the opinion of the Engineer, unsatisfactory results will be obtained.

D. **Sealer Application.** The protective sealer shall be used as supplied by the Manufacturer without thinning or alteration. Equipment for sealer application shall be clean of foreign materials and approved by the Engineer before use. The sealer shall be applied by brushing, spraying or rolling, as recommended by the Manufacturer.

A minimum of two (2) coats of the sealer shall be applied to achieve uniform coverage. The total quantity of sealer applied by all coats shall be equal to the quantity required at the application rate specified in the Approved List. The second and each additional coat shall be applied perpendicular to the previous coat. Care shall be taken when applying

each coat, such that running or puddling does not occur. Each coat shall be allowed to dry for a minimum of two (2) hours before the next coat is applied. The final coat shall be allowed to dry according to the Manufacturer's instructions, before the removal of maintenance and protection of traffic.

METHOD OF MEASUREMENT. The work will be measured as the number of square meters of concrete sealed.

BASIS OF PAYMENT. The unit price bid per square meter shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.

ITEM 08603.6701 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 365 mm RISE x 575 mm SPAN
ITEM 08603.6702 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 490 mm RISE x 770 mm SPAN
ITEM 08603.6704 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 610 mm RISE x 960 mm SPAN
ITEM 08603.6705 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 670 mm RISE x 1055 mm SPAN
ITEM 08603.6706 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 730 mm RISE x 1150 mm SPAN
ITEM 08603.6707 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 795 mm RISE x 1250 mm SPAN
ITEM 08603.6708 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 855 mm RISE x 1345 mm SPAN
ITEM 08603.6709 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 975 mm RISE x 1535 mm SPAN
ITEM 08603.6710 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 1095 mm RISE x 1730 mm SPAN
ITEM 08603.6711 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 1220 mm RISE x 1920 mm SPAN
ITEM 08603.6712 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 1340 mm RISE x 2110 mm SPAN
ITEM 08603.6713 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 1465 mm RISE x 2305 mm SPAN
ITEM 08603.6714 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 1585 mm RISE x 2495 mm SPAN
ITEM 08603.6715 M - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HE III 1705 mm RISE x 2690 mm SPAN

DESCRIPTION: This work shall consist of furnishing and installing reinforced concrete horizontal elliptical pipe end section in accordance with this specification, contract documents and appropriate standard sheets.

MATERIALS: All appropriate requirements of Section 603-2 shall apply.

CONSTRUCTION DETAILS: All requirements of Section 603-3 shall apply.

METHOD OF MEASUREMENT: Payment will be measured as each end section furnished and incorporated into the work in accordance with the plans and specifications.

BASIS OF PAYMENT: The unit price bid shall include the cost of all labor, materials and equipment necessary to complete the work as specified in the contract documents. The cost of the restraining devices and their installation, required for concrete pipe shall be included in the unit price bid for the end sections.

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ITEM 08604.5019nn M - OFFSET CATCH BASIN

DESCRIPTION: This work shall consist of the construction of offset catch basins as shown on the plans or in a manner approved by the Engineer.

MATERIALS: Subsection 604-2.01 shall apply with the following additions:

Sheet piling to be left in place shall conform to the requirements of Subsection 552-2.01. Sheet piling to be left in place need not be new.

CONSTRUCTION DETAILS: Subsections 604-3.01, 3.02, 3.03, 3.05, 3.06, 3.07 and 3.11 shall apply.

Sheet piling to be left in place shall be installed where shown on the plans and in accordance with Subsection 552-3.01.

METHOD OF MEASUREMENT: Subsection 604-4.01 shall apply.

BASIS OF PAYMENT: Subsection 604-5.01 shall apply with the following modifications and additions:

The unit price bid per meter shall include the cost of sheet piling left in place.

NOTE: "nn" denotes a serialized pay item, see Section 101-53.

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ITEM 604.5102nn15 - STORMWATER TREATMENT SYSTEM (SWTS)

DESCRIPTION:

This work shall consist of designing, furnishing and installing a Stormwater Treatment System (SWTS) in accordance with this specification, as shown in the contract documents and as directed by the Engineer. The system shall also be routinely inspected, cleaned, and maintained for the duration of the contract.

MATERIALS:

All precast concrete elements shall meet the requirements of Section 704-03 - *Precast Concrete - General,* of the Standard Specifications except the concrete shall have a minimum compressive strength of 35 Mpa at 28 days, unless otherwise noted on the approved fabrication drawing. Precast units shall be fabricated at facilities approved by the Department.

Manhole frames and covers shall comply with the requirements of Section 655 – *Frames, Grates and Covers.*

The stormwater treatment system components, inserted or cast into precast concrete units, shall be one of the following:

Vortechs™ as manufactured by	CONTECH Construction Products Inc. 9025 Centre Pointe Drive, suite 400 West Chester, OH 45069 1-800-925-5240
Downstream Defender™ as manufactured by	Hydro International 94 Hutchins Drive Portland, ME 04102 Phone (207) 756-6212
Stormvault™ as manufactured by	CONTECH Construction Products Inc. 9025 Centre Pointe Drive, suite 400 West Chester, OH 45069 1-800-925-5240

The contractor shall provide the manufacturer's standard sheets, installation details, and operations and maintenance manuals to the Engineer ten days prior to the installation. Units shall be designed to withstand an MS-18 highway loading. Design calculations and fabricator working drawings shall be stamped by a Professional Engineer licensed and registered to practice in New York State. Fabricator working drawings, prepared in accordance with the requirements of Section 704-03, *Precast Concrete - General,* of the Standard Specifications, shall be supplied to the Materials Bureau for approval prior to fabrication of the precast concrete units. The structure(s) must meet the following performance specifications: (1) the manufacturer must document a sediment removal efficiency of 80% for all particles entering the structure (as determined by third party independent scientific study) at the flow rate associated with the Water Quality Volume as indicated in the contract documents; (2) the manufacturer shall determine the rise in Hydraulic Grade Line (HGL) of the drainage system upstream of the SWTS. This shall

consist of a stage-discharge table indicating the water surface elevation at the entrance of the SWTS for the full range of flows that may pass through the system. Documentation of these performance standards must be submitted to the Engineer.

Sizing of the unit shall be determined by the manufacturer based on the maximum flow rate through the structure (i.e. the flow associated with water quality volume for 10-year, 24-hour storm event) as indicated in the contract documents and shown in Table 1. If units can not pass the 10-year, 24-hour storm event, the SWTS shall be installed off of the main drainage system (off-line installation). The configuration of the unit with respect to the drainage system (on-line vs. off-line) shall be as shown in the contract documents. Inlet, bypass, and outlet pipe diameters will be as required by the manufacturer and/or as indicated on the plans. All pipe sizes and invert elevations determined by the manufacturer shall be verified by the contractor prior to installation of pipes at the unit.

Table 1

Item Number	Maximum Flow Capacity (cfs)/(l/s)
604.51020115	1.6 (45)
604. 51020215	2.8 (80)
604. 51020315	4.5 (125)
604. 51020415	6.0 (170)
604. 51020515	8.5 (240)
604. 51020615	11.0 (315)
604. 51020715	14.0 (400)
604. 51020815	17.5 (495)
604. 51020915	25.0 (710)

CONSTRUCTION DETAILS:

The contractor shall follow the procedures established by the manufacturer for installation and field testing.

The contractor shall be responsible for cleaning the system when needed, maintaining performance / efficiency, and keeping a record of maintenance inspections for the duration of the contract. If the system is not functioning as outlined in the Operation and Maintenance Manual for the system, then the contractor, with the Engineer's approval, shall take the necessary steps to diagnose and correct problems at no additional cost to the State.

Final approval of the installation will be made by the Engineer verifying that the system has been installed, field tested and functioning as outlined in the Operation & Maintenance Manual for the system.

ITEM 604.5102nn15 - STORMWATER TREATMENT SYSTEM (SWTS)

METHOD OF MEASUREMENT:

This work will be measured as the number of Stormwater Treatment Systems installed in accordance with this specification, and approved by the Engineer.

BASIS OF PAYMENT:

The unit price bid for each Stormwater Treatment System shall include the cost of all labor, materials, equipment necessary to complete the work, including manhole frames and covers; all necessary excavation, backfill, sheeting; and necessary maintenance for the duration of the contract.

The cost of the outlet/inlet pipes will be paid for under their respective items.

Seventy-five percent of the price bid for this item will be paid upon satisfactory installation of the SWTS units. The remaining percentage will be paid after the SWTS is satisfactorily cleaned at the completion of the contract.

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ITEM 10604.5109 M - FLEXIBLE CHECK VALVE - 450 mm DIAMETER
ITEM 10604.5110 M - FLEXIBLE CHECK VALVE - 600 mm DIAMETER

DESCRIPTION

Work under this item shall consist of furnishing and installing a flexible check valve on a pipe of the type, size, and at the locations shown on the plans. The nominal diameter indicated for the flexible check valve in this specification is the inside diameter (I.D.) of the pipe to receive the valve. The valve shall be sized to fit the outside diameter of the pipe.

MATERIALS

The flexible check valve shall be a Series TF-2 Tideflex Check Valve as manufactured by the Red Valve Company, Inc., 700 North Bell Avenue, Carnegie, PA 15106 (Telephone (412)-279-0044; FAX (412)-279-7878), or approved equal.

CONSTRUCTION DETAILS

Prior to ordering the flexible check valve, field measurements shall be taken by the Contractor or the manufacturer's representative of the outside diameter of the existing or new pipe to receive the valve to assure a proper fit.

Valves shall be of the flow-operated check type with a slip-on connection. Inlet port areas shall be 100 percent of the mating pipe port size. The port area shall contour down to a duckbill which shall allow passage of flow in one direction while preventing reverse flow. The check valve shall close around debris with less than 6.9 kPa of backpressure. The check valve shall be designed to slip over the specified pipe outside diameter. The flexible duckbill sleeve shall be one-piece rubber construction with fabric reinforcement and a protective Neoprene exterior wrapping. Check valves shall be attached to the pipe outside diameter by two stainless steel straps as recommended by the manufacturer. Manufacturer must have a minimum of five years experience manufacturing check valves. Manufacturer must have available flow test data from an accredited hydraulics laboratory to confirm pressure drop data. Company name, plant location, valve size and serial number shall be bonded to the check valve.

All adjustments, repairs or replacement of damaged or defective valves shall be performed at no cost to the State.

METHOD OF MEASUREMENT

This work will be measured by the number of check valves of the appropriate size installed.

BASIS OF PAYMENT

The unit price bid for this item shall include the cost of all labor, materials and equipment necessary to complete the work.

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Rev. 11/14/92
Rev. 03/20/98
Rev. 5/02

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ITEM 07605.2502 M - PRECAST CONCRETE HEADWALLS FOR 100 mm LATERAL OUTLET PIPES

DESCRIPTION :

Furnish and install precast concrete headwalls at lateral outlet pipes where shown in the contract documents.

MATERIALS :

1. **Precast Headwall:** Notify the Engineer of the name and location of the precast headwall fabricator at least 30 days before the start of production. Supply precast headwalls meeting the requirements of §704-03, except as noted herein.

   Use the dimensions shown on page 2 of this specification. Proposed changes to these dimensions, other than minor changes approved by the Engineer, require submission of three complete sets of working drawings to the Engineer for review and approval.

   Mark the name or trademark of manufacturer, the date of manufacture, and the unit identification number on the units with permanent waterproof paint.

2. **Rodent Screen:** Use screens of #2 or #3 welded wire mesh, 16 gauge or heavier, made of Type 304 stainless steel wire or carbon steel wire, hot dipped galvanized in accordance with §719-01. A manufacturer's certification to these requirements will serve as the evidence of acceptability.

3. **Steel Bars**: Use 13 mm diameter, 600 mm long deformed or plain billet-steel bar meeting the requirements of ASTM A615 (such that it will fit in holes in head wall). The steel bar shall be either hot dipped galvanized in accordance with ASTM A123 or epoxy coated in accordance with 709-04. A manufacturer's certification to these requirements will serve as the evidence of acceptability.

CONSTRUCTION DETAILS :

Install each headwall with a rodent screen and two steel bars as specified. Install headwalls flush with the finished slope and orient to allow the headwall apron to drain. Extend outlet pipes into the headwall fitting until flush with the installed rodent screen. Install a steel bar in each of the two holes, driven to a minimum of 15 mm and a maximum of 50 mm below the top surface of the headwall.

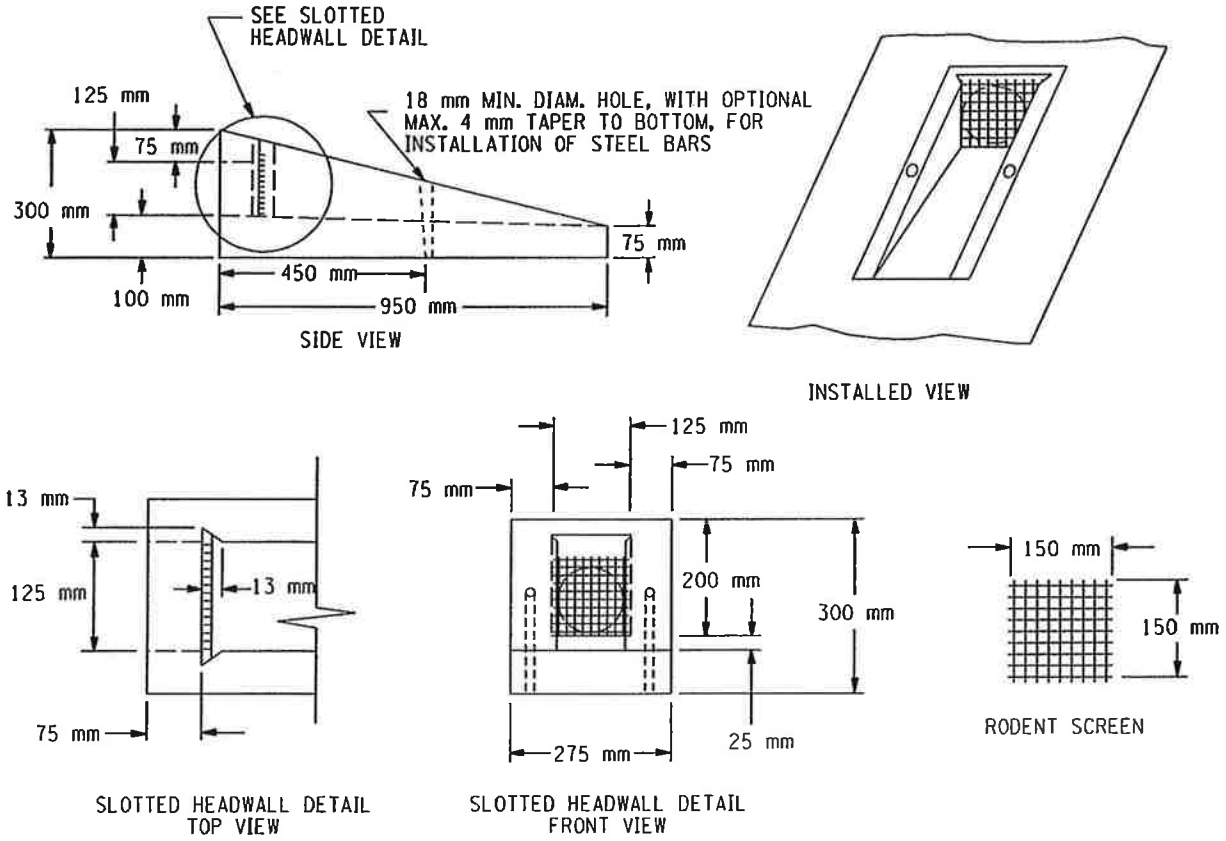
METHOD OF MEASUREMENT:

Headwalls will be measured by the number of units supplied and installed according to the contract documents.

BASIS OF PAYMENT :

ITEM 07605.2502 M - PRECAST CONCRETE HEADWALLS FOR 100 mm LATERAL OUTLET PIPES

Include the cost of labor, materials and equipment required to fabricate and install the headwalls in the unit price bid per headwall. Headwalls damaged during construction shall be replaced at contractor's expense.



PRECAST CONCRETE OUTLET HEADWALL

Metric Version

ITEM 18605.9810XX M - SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE

DESCRIPTION: The work shall consist of furnishing and installing Smooth Interior Perforated Corrugated Polyethylene Underdrain Pipe for drainage in accordance with this specification, the contract plans and the Standard Sheet entitled "Installation Details For Corrugated Metal and Structural Plate Pipe and Pipe-Arches".

MATERIALS: The Smooth Interior Perforated Corrugated Polyethylene Underdrain Pipe shall conform to the requirements of Subsection 706-12, Smooth Interior Corrugated Polyethylene Pipe, of the Standard Specifications. Underdrain filter materials shall consist of screened gravel, crushed stone, crushed gravel, or crushed slag meeting the requirements of Section 605-2.02 Granular Filter Materials.

End Sections. End sections shall be galvanized steel conforming to Subsection 707-10, Galvanized Steel End Sections, of the Standard Specifications. Metal end sections used with polyethylene pipe shall be sized as follows:

PE PIPE I. D.	Pe Pipe Wall Thick. (Approx.)	O. D. (Approx.)	End Section (Metal Pipe Size)
305 mm	25 mm	356 mm	400 mm
380 mm	36 mm	452 mm	450 mm
455 mm	41 mm	538 mm	600 mm
610 mm	46 mm	701 mm	700 mm
760 mm	53 mm	869 mm	900 mm
915 mm	64 mm	1041 mm	1200 mm

CONSTRUCTION DETAILS: The construction details of §605 shall apply.

In addition:

Excavation. The requirements specified in §206, Trench, Culvert and Structure Excavation, that apply to culverts and storm drains shall govern, except as modified herein. Width of excavation at trench bottom shall be measured as the nominal outside diameter of the pipe plus 300 mm or as show on the plans.

ITEM 18605.9810XX M - SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE

Laying Pipe. All pipe shall be laid in reasonably close conformity to line and grade and shall have a full, firm and even bearing at each joint and along the entire length of pipe. Joint misalignment shall not result in offsets, in the interior smooth liner, greater than 6 mm. Pipe laying shall begin at the downstream end and progress upstream or as ordered by the Engineer. Any single run of pipe, excluding end sections, shall consist wholly of the same type material unless otherwise directed by the Engineer. In a closed drainage application the upgrade end of a run need not be capped. End caps shall be used when deemed necessary by the Engineer.

Handling and Assembly of Pipe. All pipe shall be handled, stored and assembled in accordance with the Approved Materials Details except as modified on the plans or by the Engineer's written order. Two copies of Materials Details shall be provided by the supplier through the Contractor to the Engineer at least 10 days prior to shipment of the product to the job site. Joint assembly shall be made with manufactured ends. Field cuts shall be permitted only at the terminal ends and shall result in a minimum pipe length of one meter. Joint assemblies shall provide separations no greater than 13 mm between adjoining sections of pipe. Lateral connections shall be made with appropriate fittings, supplied by the pipe manufacturer and approved by the Engineer. For basin connections, installations shall be in accordance with the standard sheet entitled " Drainage Structure Details " except that the pipe end shall protrude 50 mm into the basin interior to provide for a 45° battered grout seal. The battered grout seal shall be applied to both interior and exterior faces of the basin.

Bedding and Backfilling Pipe. When using Smooth Interior Perforated Corrugated Polyethylene Underdrain pipe, the type of materials to be used in bedding and backfilling shall conform to the provisions of Section 605, Underdrains. Installation shall be in accordance with the Standard Sheet titled "Installation Details for Corrugated Metal and Structural Plate Pipe and Pipe-Arches" and as modified in this specification. The pipe after installation shall have a maximum deflection of 5% of its nominal inside diameter. The Engineer may order the Contractor to perform mandrel testing to determine the 5% specification compliance.

Damage. Pipe that is damaged or disturbed through any cause occurring prior to acceptance of the contract, shall be replaced or realigned as directed by the Engineer and at the Contractor's expense. Pipe that is defective from any cause, including damage caused by handling, will be unacceptable for installation and will be replaced as directed by the Engineer at no cost to the State. Pipe with damaged ends may be incorporated into the work at terminal locations and only if the damaged portion is totally removed by the field cut. Repair or replacement of pipe that is disturbed, damaged or misaligned shall provide the same product as a new pipe installation, as determined by the Engineer.

ITEM 18605.9810XX M - SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE

METHOD OF MEASUREMENT:

The provisions of §605-4 Method of Measurement shall apply.

BASIS OF PAYMENT:

End sections, Excavation, granular fill and backfill will be paid for separately under their appropriate items in §203 and §206 as applicable.

Payment will be made under:

Item 18605.981012 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 305 mm DIAMETER
Item 18605.981015 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 380 mm DIAMETER
Item 18605.981018 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 mm DIAMETER
Item 18605.981024 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 610 mm DIAMETER
Item 18605.981030 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 760 mm DIAMETER
Item 18605.981036 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 915 mm DIAMETER

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ITEM 606.50 06 - DECORATIVE TIMBER BARRIER

DESCRIPTION

Under this item the contractor shall furnish and erect wood timber barriers in accordance with the plans, specifications and as ordered by the Engineer.

MATERIALS

The timber posts and rails shall be pressure treated lumber of the size shown on the plans and conform to material specifications of § 712-13.

The posts and rails shall be treated with wood preservative conforming to § 708.31, Wood Preservative - Water Borne.

Fittings & Fasteners shall conform to the material requirements of § 719.01, Galvanized Coatings and Repair Methods, Type 2.

CONSTRUCTION DETAILS

The timber barriers shall be erected as shown on the plans or as directed by the Engineer true to line and grade on a firmly tamped base. The space around them shall be backfilled and tamped in 150 mm layers. The rails shall be attached as shown on the plans.

After erection of the timber barriers, one coat of brown stain as approved by the Engineer shall be applied to the posts and rails.

METHOD OF MEASUREMENT

This work will be measured by the actual number of linear meters erected in accordance with the contract documents.

BASIS OF PAYMENT

The unit price bid per linear meter shall include the cost of furnishing all labor, materials and equipment necessary to complete the work including the excavation and backfill.

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ITEM 01607.91 M - ORNAMENTAL METAL FENCE

DESCRIPTION

Under this item, the contractor shall furnish and install ornamental metal fence as shown in the contract documents or as directed by the Engineer.

MATERIALS

As indicated in the contract documents

CONSTRUCTION DETAILS

Prior to beginning work on this item, the contractor shall submit to the Engineer for approval catalog cuts, shop drawings or other details of the fence as indicated in the contract documents.

The ornamental metal fence shall be installed as indicated and at locations shown in the contract documents.

METHOD OF MEASUREMENT

Ornamental metal fence will be measured by the number of meters of fence measured along the top of the fence from center to center of the end posts, including all gates and hardware as indicated on the contract documents.

BASIS OF PAYMENT

The unit price bid for the ornamental metal fence shall include all labor, materials and equipment necessary to satisfactorily complete the work.

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ITEM 08607.97 M - REMOVE AND RESET EXISTING FENCE

DESCRIPTION:

Under this item the contractor shall remove and reset existing fencing where shown on the plans and as directed by the Engineer. All work shall be done in accordance with these specifications and the applicable Standard Sheets and in reasonably close conformity with the lines and grades shown on the plans or established by the Engineer. All excess or unusable fencing materials removed shall become the property of the contractor and shall be disposed of off the contract site.

All reference to "fencing" shall include existing gates, if any, to be reset.

MATERIALS:

The materials shall be the components salvaged from each of the various types and sizes of fences (metal, wood, wire, etc.) existing which are designated to be removed and reset. The contractor shall also furnish all such additional new material for the replacement of existing materials which are damaged or otherwise unsatisfactory, in the opinion of the Engineer for incorporation in the reset fence. All fence materials or component parts furnished shall conform in type, size, kind and shape to those existing which they replace and shall be acceptable to the Engineer.

The material requirements and composition of concrete used for footings shall comply with the specifications for Class "A" concrete in Section 501 of the Standard Specifications.

CONSTRUCTION DETAILS:

The Engineer will designate the particular locations and limits of existing fence to be removed and the locations and limits of the fence to be reset. The Engineer will determine the extent and condition of existing materials to be salvaged and those to be replaced with new fence by the contractor.

A. Fence Removal:

If a portion of the existing fence is to remain, and if deemed necessary by the Engineer, the remaining end section shall be modified to adequately secure the fencing. This modified section shall include all hardware necessary to secure the fencing in a manner similar to the existing end section or as directed by the Engineer.

The contractor shall carefully dismantle and remove the existing fence and salvage all materials determined satisfactory for incorporation in the reset fence. He shall provide for safe storage of all fence materials salvaged until such time as they are reset. Any concrete post footings shall be broken up and removed and the posts carefully cleaned and stored. All post holes shall be filled to meet existing grade.

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ITEM 08607.97 M - REMOVE AND RESET EXISTING FENCE

All work shall be done in a workmanlike manner with care taken not to disturb the surrounding area and existing fence to remain. Any damage done to the area or existing fence to remain, caused by the contractor's operations, shall be repaired to the original condition at no expense to the State.

B. Reset Fence:

The contractor shall clean and assemble the salvaged fence components, incorporate all required new materials and reset the fence plumb and true to the lines, grades and limits established. The contractor shall furnish and install concrete footings for the relocated fence when the existing fence in original position was of this type construction. Concrete footings shall be a minimum of 300 mm in diameter and 900 mm deep. All excavation and backfill shall conform to Section 203 "Excavation and Embankment".

METHOD OF MEASUREMENT:

This item will be measured by the number of meters of reset fencing, including gates. Measurement will be made along the top of fencing, center to center of end posts, properly installed in accordance with the requirements of the plans, specifications, standard sheets and directions of the Engineer. An allowance of 3 meters will be added for each end post, corner post and pull post installed in accordance with the applicable standard sheet, or as directed by the Engineer.

BASIS OF PAYMENT:

The unit price bid per meter shall include the cost of furnishing all labor, materials, tools and equipment necessary to satisfactorily complete the work, including removal and disposal of excess fencing not reset, excavation, backfill and concrete.

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ITEM 07608.9401 M - IMPRINTING AND COLORING OF ASPHALT CONCRETE PAVEMENT

DESCRIPTION

This work shall consist of imprinting asphalt concrete pavement, and applying both a coloring agent and a sealer at the locations shown on the contract plans or as directed by the Engineer.

MATERIALS

The contractor shall submit product literature to the Engineer for review and approval by the Regional Landscape Architect prior to performing any work under this item. The materials used in the coloring process shall conform to the following requirements:

Coloring Agent. The coloring agent shall consist of an integrally-colored acrylic polymer surfacing agent developed specifically for use over imprinted asphalt in higher traffic areas.

Sealer. The sealer shall be a clear, breathable, acrylic polymer product developed specifically for use over imprinted asphalt in higher traffic areas.

CONSTRUCTION DETAILS

Asphalt pavement shall be imprinted and colored at the locations shown on the drawings, and in accordance with the specifications and recommendations of the company whose imprinting and coloring products and processes are being utilized. The patterns and colors shall be as shown in the contract plans.

Imprinting shall begin once the asphalt has reached its final density and while there is still sufficient heat in the asphalt to permit imprinting. Imprinting shall be achieved using steel rollers and/or vibratory plates and shall be of consistent depth.

Neither the coloring agent nor the sealer shall be applied in temperatures below 7° C and rising, or when precipitation can be expected within 24 hours. The coloring agent shall be spray applied and broomed using a broom or brushes. Once the coloring agent is fully dried, the sealer shall be spray applied and broomed into the surface. Prior to its application, the sealer shall be tinted using the resin from the coloring agent. Care shall be taken to ensure that the entire surface is covered, including the imprinted surfaces. The contractor shall use sufficient masking to ensure that the coloring agent and sealer are applied only where specified.

METHOD OF MEASUREMENT

This work will be measured as the total number of square meters of asphalt concrete surface having been imprinted and colored in accordance with the plans, specifications, and directions of the Engineer.

BASIS OF PAYMENT

The unit price bid per square meter shall include the cost of all labor, materials, and equipment necessary to satisfactorily complete the work.

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ITEM 01609.0209 M - GRANITE CURB, TYPE T100

All the provisions Section 609 of the Standard Specifications regarding stone curbs shall apply.

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ITEM 610.02030106 - WETLAND SEEDING

DESCRIPTION.

Under this item the Contractor shall furnish all labor and materials necessary for seed placement/ broadcasting, hydro-seeding, liming, fertilizing, mulching, and maintenance in accordance with the Contract Documents.

MATERIALS.

Seed: These materials shall meet the requirements of § 713-04, Seeds. All seed species (except annual rye and perennial rye grasses) shall be native to New York State. All seed mixtures shall consist of varieties as specified in the Contract Documents. Substitutions must be approved by the Regional Landscape Architect (RLA).

Topsoil: Topsoil shall be as specified under §713-01 Topsoil unless otherwise specified in the Contract Documents.

Rolled Erosion Control Products and Soil Stabilizers: These materials shall meet the requirements of §713-07 Jute Mesh or Other Approved Erosion Control Materials and shall be of the Type and Class specified in the Contract Documents.

Lime: Lime shall be as specified under §713-02 Limestone unless otherwise specified in the Contract Documents. The need for lime and application rate shall be determined by the Regional Landscape Architect after the Contractor performs a soil pH test and supplies the results to NYSDOT.

Fertilizer: The requirement for fertilizer and application rate shall be determined per the individual needs of the site.

Water: Shall be clean, fresh, free of pollutants, and other substances or matter which could inhibit the vigorous germination and growth of seed.

CONSTRUCTION DETAILS.

Inspection: Contractor shall verify that the sub-grade is prepared in accordance with Section 203 of the Standard Specifications and that it is ready to receive the work of this section. The sub-grade shall be graded to the satisfaction of the Engineer and the Regional Landscape Architect, and as described in the Contract Documents. Upon acceptance of the sub-grade, work described in this section may begin.

Seed shall be incorporated into the bonded fiber matrix for application in accordance with the product manufacturers specifications and in accordance with the Contract Documents.

Placing Topsoil:

ITEM 610.02030106 - WETLAND SEEDING

Contractor shall place topsoil during dry weather and on unfrozen sub-grade.

Contractor shall spread topsoil to a minimum depth of 150 mm over all areas to be seeded, or as indicated on the Contract Documents.
Contractor shall grade topsoil to the lines and grades shown on the plans to provide drainage as specified above under "inspection". Topsoil placed in the wetland mitigation areas shall not be rolled or compacted. If the topsoil is rolled or compacted with smooth-wheeled equipment that results in a smooth, planar surface for the topsoil, the surface shall be scarified or disced.

Liming:

A. Contractor shall apply lime at an adequate rate (rate shall not exceed three 2500 kg per 4000 sq. meters) based on pH test results (pH testing is to be done by the Contractor) to achieve a pH of between 5.5 to 6.5.

B. Contractor shall broadcast lime prior to seeding. Lime shall be applied under low wind conditions to minimize the loss of lime.

C. Limestone shall be incorporated into the bonded fiber matrix for application in accordance with product manufacturers specifications and in accordance with the Contract Documents.

Seeding:

Any equipment used for seeding shall be cleaned by the Contractor prior to applying seed to the wetland construction areas.

Temporary seeding shall be applied to all immediate cover materials that will be exposed in excess of two weeks and to final cover materials only outside of the planting dates for the permanent seeding and pending prior approval of the Engineer. Contractor shall avoid application during periods of rain or within twenty four (24) hours preceding expected rainfall.

Swale and drainage courses within the wetland mitigation area shall be covered with erosion blanket that conforms to Section 713-07 Jute Mesh or other Approved Erosion Control Materials - Class II, Type B. Contractor shall avoid applications during periods of rain or within twenty four (24) hours preceding expected rainfall.

Temporary seeding shall be applied to all immediate cover materials that will be exposed in excess of two weeks: and to final cover materials only outside of the planting dates for the permanent seeding and pending prior approval of the Engineer. Temporary plant materials must be cut and removed, or otherwise killed back prior to the placement of final cover materials and permanent seeding. Temporarily seeded areas shall be covered with straw mulch applied uniformly at 1650 kg per 4050 sq. meters. Straw mulch shall be held in place by applying a chemical spray tackifier such

as Terra Tack II at a rate of 45 kgs./hectare or Aerospray 70 at 225 liters./4050 sq. meters according to manufacturer's instructions. Contractor shall avoid applications during periods of rain such that the bonded fiber matrix will have the opportunity to dry for up to 24 hours after installation.

A companion crop of annual ryegrass shall be broadcast seeded on all unconsolidated soil areas between wetland plants, (trees and shrubs). Contractor shall apply uniform straw mulch cover at a rate of 1650 kg per 4050 sq. meters over such seeded areas.

A. Contractor shall apply companion rye seed mixtures, as required at the manufacturers specified rates.

B. Contractor shall apply fertilizer for companion rye seed mixture, as required, at a rate of 500 kg per hectare.

C. Contractor shall not apply seed to ground during periods of saturation, during windy periods (wind force that is sufficient to carry seed "away" from its intended area of placement according to the plans specifications ad directions of the Engineer), or during periods of time when the ground surface is too dry for the seed to germinate and gain root-hold in the area of its intended placement according to the Contract Documents.

D. Contractor shall apply permanent wetland seed mixtures at the specified rates. The wetland seed mix shall be applied utilizing standard, hydraulic seeding equipment in successive layers so as to achieve 100% coverage of all exposed soil intended for coverage in accordance with the Contract Documents.

E. The Bonded Fiber Matrix (BFM) shall be applied by a contractor certified by the product manufacturer to have been trained in the proper procedures for the mixing and application of the product. The BFM shall be mixed according to the manufacturers specifications and the Contractor shall be able to demonstrate a "free-liquid test", as described in the manufacturer specifications, to the Engineer, and or the Regional Landscape Architect upon request. Bonded Fiber Matrix shall be spray applied at a rate of 2,250-3,000 kg /hectare, utilizing standard, hydraulic seeding equipment in successive layers so as to achieve 100% coverage of all exposed soil intended for coverage in accordance with the Contract Documents.

F. Contractor shall hydro-seed the Wetland Seeding Areas in the Spring between March 15 through June 15 or in the fall between September 15 and October 31.

G. Contractor shall maintain all seeded areas immediately after sowing/placement until vegetation is sufficiently established and exhibits a vigorous growing condition.

H. If adequate vegetative establishment is not attained within the first growing season following application to the satisfaction of the Engineer, the Engineer reserves the right to instruct the Contractor to hydroseed the face and top of the soil slopes with the same seed mixture during

the next consecutive planting season.

MAINTENANCE.

A. Contractor shall maintain all seeded areas immediately after sowing/placement until vegetation is sufficiently established and exhibits a vigorous growing condition.

B. Contractor shall supply and apply supplemental irrigation immediately following the installation of permanent seed mixtures. Contractor shall not irrigate when ground is frozen.

C. Irrigation shall be applied until a uniform and vigorous growth of herbaceous vegetation that is 100 mm minimum in height is established.

D. Contractor shall immediately repair any seeded areas damaged by erosion. The Contractor in repairing any seeded areas damaged by erosion shall reseed areas which failed to germinate and within the next consecutive specified planting date-range. All such work shall be completed a minimum of one month prior to the project close-out.

E. Contractor shall also maintain the wetland mitigation areas against invasion and growth of exotics (invasive non-native species). Purple loosestrife (*Lythrum salicaria*), Common reed (*Phragmities australis*), and Reed canary-grass (*Phalaris arundinacea*) shall be dug or carefully pulled, in order to get all the roots, when they are observed invading the site. Chemical treatment may be required if a large area becomes invaded with exotic species. Refer to the plans and specifications for the allowable percentage of total exotic species (cumulatively) in the migration area.

SUBMITTALS.

A. Contractor shall submit name, address and telephone number of manufacturer/suppliers of all seed, fertilizer and other agricultural products.

B. Contractor shall submit a Seedman's Certificate.

C. Contractor shall prepare a one-pound dry sample of the seed mixture as specified by the Engineer in the Seed Schedule of this Section. Sample shall be submitted to the Engineer in a sealed, waterproof bag and clearly marked with the proportions of each seed type in sample, date of sample, and names of seed suppliers.

METHOD OF MEASUREMENT.

The quantity of seeding to be paid for under this item will be the number of square meters seeded and maintained in accordance with the Contract Documents.

ITEM 610.02030106 - WETLAND SEEDING

BASIS OF PAYMENT.

The unit price bid per square meter of area seeded shall include the cost of all labor, materials, and equipment necessary or required to complete the work in accordance with the Contract Documents.

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ITEM 613.01---01 WETLAND TOPSOIL

DESCRIPTION:

This work shall consist of furnishing, stockpiling and placing wetland topsoil at the locations shown in the plans and in conformance with the lines, grades and thicknesses shown in the Contract Documents or as directed by the Engineer.

MATERIALS:

Wetland topsoil shall be obtained from either:

- existing impacted delineated wetlands shown on the plans
- existing impacted upland areas
- or manufactured from a commercial source

Prior approval must be obtained from the Engineer, in consultation with the Regional Landscape Architect, prior to excavating topsoil for stockpiling and eventual use as wetland topsoil. Any existing topsoil, whether in place prior to excavation or while stockpiled, which exhibits the presence of invasive species (such as common reed and purple loosestrife), as determined by the Engineer in consultation with the Regional Landscape Architect, shall not be used in the wetland mitigation areas.

Wetland topsoil shall comply with Subsection 713-01, Topsoil, of the Standard Specifications, except as noted herein:

Organic Granular Soil: The organic granular soil material shall be free from refuse, foreign materials, roots, hard dirt, stiff clay, cobbles, materials deleterious to plant growth, or others which will prevent the formulation of a uniform mixture when blended with pulverized, well composted leaf mulch or rotted manure meeting NYSDOT specification 713-15. The pH of the blended material shall not be less than 6.0 and not greater than 7.0. Any blended material that is stockpiled on site shall be located high and dry, outside of the stream channel and pond basin, protected from precipitation, and prevented from mingling with storm water runoff.

A) Granular soil shall be guaranteed clean fill material obtained from a commercial sand and gravel pit, not originating from reconstituted or recycled pavement materials. The granular soil portion shall constitute 80 to 85 percent of the mixture, and shall have the following gradation:

Sieve Size	Percentage Passing by Weight
No. 16	100%
No. 40	85-100%
No. 60	40-100%
No. 200	5-10%

B) The organic portion shall constitute 15-20% of the mixture, and be comprised of well pulverized and composted leaf mulch or rotted manure.

C) The Contractor shall blend the organic portion with the granular portion under dry conditions to produce a homogenous mixture. A one kilogram representative sample of the blend, for each 500 cubic meters of stockpiled material shall be submitted to the Engineer for approval prior to use. Any required testing of the soil materials shall be conducted at the Contractor's expense.

Sampling and testing shall be performed in accordance with section 713-01. The existing impacted delineated

ITEM 613.01—01 WETLAND TOPSOIL

wetland topsoil excavated for the wetland mitigation site(s) shall be exempt from the Sampling & Testing requirements of Section 713-01 – Topsoil.

If the existing impacted upland soil or the manufactured wetland soil mix fails the testing requirements of Section 713-01 - Topsoil, the Contractor shall amend the soil as necessary, by methods approved by the Engineer, to meet the above requirements.

CONSTRUCTION DETAILS:

1. Site Layout and Work Plan. The Contractor shall stake out the limits of the areas proposed for stripping and use as wetland topsoil. The Engineer, in consultation with the Regional Landscape Architect, will review the areas to determine suitability of soil and identify if invasive/non-desirable species are present. If the area is determined to be unacceptable, the contractor shall stakeout additional areas for review and use as wetland topsoil.

   Access routes and a work plan shall be submitted to the Engineer describing the methodology and equipment that will be utilized to complete this work and the stripping of the wetland topsoil.

   No work shall commence in the designated areas until the Engineer has reviewed and provided the Contractor with written acceptance of the stake out and work plan.

2. Stripping of Topsoil. Topsoil and existing wetland topsoil shall be stripped from the approved staked out areas to the designated depths prior to starting the general excavation in an area. After stripping, the wetland topsoil shall be immediately placed or stockpiled in a location approved by the Engineer.

3. Preparation of Areas to Receive Wetland Topsoil. The subsoil within the areas to be covered by wetland topsoil shall be graded so that the completed work after the wetland topsoil is placed shall conform to the specified lines and grades. The contractor shall scarify or till the surface of the subsoil to a depth of 150 mm before the wetland topsoil is placed to permit bonding the wetland topsoil with the subsoil. Tillage by disking, harrowing, raking or other approved methods shall be accomplished in such a manner that depressions and ridges formed by tillage shall be parallel to the contours.

4. Placing and Spreading of Wetland Topsoil. The placement of wetland topsoil shall occur such that the wetland plantings can be installed immediately thereafter, as practicable, as approved by the Engineer.

   Wetland topsoil in an unworkable condition due to excessive moisture, frost or other conditions shall not be placed until it is suitable for spreading. Wetland topsoil shall be placed on the designated area and spread to the specified thickness. After the wetland topsoil is spread all large stiff clods, rocks, roots and other foreign matter shall be cleared and disposed of by the Contractor so that the finished surface will be acceptable for subsequent work such as seeding, mulching or planting.

5. Restoration. The sites of all stockpiles and areas adjacent thereto which have been disturbed by the Contractor shall be graded if required and put into a condition acceptable for seeding. Surplus wetland topsoil shall be used to flatten embankment slopes or placed in other locations approved by the Engineer.

ITEM 613.01—01 WETLAND TOPSOIL

METHOD OF MEASUREMENT:

Wetland topsoil quantities will be measured as the number of cubic meters of in-place wetland topsoil within the wetland creation areas which meet the material requirements noted above. Quantities shall be computed based upon the area of the wetland creation sites at a depth as shown in the Construction Documents except where revised payment lines are established by the Engineer.

BASIS OF PAYMENT:

The unit price bid shall include the cost of furnishing all equipment, labor and materials necessary to complete the work to the satisfaction of the engineer, including the handling, stockpiling, placement, testing and soil amendments. Stripping (excavation) of the wetland topsoil shall be paid for under the appropriate excavation item as noted in the Contract Documents.

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ITEM 01613.04 M - STOCKPILING AND PLACING STREAMBED MATERIALS

DESCRIPTION

This work shall consist of stockpiling and placing streambed materials in conformance with the lines, grades and thickness shown in the Contract Documents or as directed by the Engineer.

MATERIALS

Streambed materials shall come from the existing streambed areas within the work limits as shown in the Contract Documents or as determined by the Engineer after consulting with the Regional Landscape Architect.

Streambed materials shall be the surface layer of the native streambed and shall be free of refuse and debris.

CONSTRUCTION DETAILS

1. Work Plan. The Contractor shall submit a work plan to the Engineer describing the methodology and equipment that will be utilized to complete the stripping, stockpiling, and placing of the streambed materials. The work plan shall also identify the Contractor's protection of all watercourses from water borne sediment or other pollutants.

   No work shall commence in the streambed until the Engineer has reviewed and provided the Contractor with written acceptance of the work plan.

2. Stripping of Existing Streambed Materials. Streambed materials shall be stripped from the areas and to the depth designated in the Contract Documents or as directed by the Engineer. The streambed materials shall be stripped prior to starting the general excavation in the area. After stripping, the streambed materials shall be immediately placed or stockpiled in a location approved by the Engineer.

3. Preparation of Areas to Receive Streambed Materials. The stone fill within the areas to be covered by streambed materials shall be graded so that the completed work after the streambed material is placed, shall conform to the specified lines and grades. The Contractor shall chink the voids between the stone fill in these areas to the satisfaction of the Engineer, prior to the placement of the streambed materials.

4. Placing and Spreading of Streambed Materials. The streambed materials shall be placed to the thickness and grade lines designated on the contract plan or as directed by the Engineer and in a manner consistent with the approved work plan, unless otherwise directed by the Engineer.

5. Restoration. The sites of all stockpiles and areas adjacent thereto which have been disturbed by the Contractor shall be graded as required by the Engineer and put into a condition acceptable for seeding. Surplus streambed materials shall be disposed of in accordance with the provisions of §203-3.08.

METHOD OF MEASUREMENT

Streambed material quantities shall be measured in cubic meters, computed from the final (in place) payment lines shown on the plans except where revised payment lines are established by the Engineer.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all equipment, labor, and materials necessary to complete the work as specified. The stripping (excavation) of the streambed materials shall be paid for under the appropriate excavation item as noted in the Contract Documents.

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ITEM 615.0402–08 M - TREE/VEGETATION PROTECTION BARRIER

DESCRIPTION:

This work shall consist of furnishing, installing, and maintaining tree or vegetation protection barriers of the type and at the locations shown in the plans or where directed by the Engineer.

MATERIALS:

Materials for tree/vegetation protection barriers shall conform to the following requirements and AOBE:

Plastic barrier fence (orange or green color)
Steel post (minimum length 1.8 meters)
#14 gauge steel wire

CONSTRUCTION DETAILS:

The tree or vegetation protection barriers shall be erected prior to moving construction equipment onto any site where the trees or vegetation designated for protection are located, as shown on plans or where directed by the Engineer.

Tree/vegetation barriers shall be not less than 1.2 meters in height. For protection of individual trees, lay out a square around the drip line of the tree canopy if practical with the trunk centered in the square and at least 1.5 meters away from any side. Drive a steel post normal to the ground at each corner, and at the midpoint of each side or at 1.8 meter intervals, whichever is less to a depth 1/3 of the total post length.

For vegetation protection barriers, lay out the line of barriers. Drive steel posts normal to the ground to a depth 1/3 of the total post length. Posts shall be spaced on 1.8 meter centers.

Place the plastic barrier fence along the side of all posts. Ends of fencing shall overlap a distance that is at least one half the fence height. Secure overlap with wire.

Secure fencing to post with wire at top, middle and bottom of post. Wire shall be tight enough to prevent the fencing from slipping down.

Barrier fence which is not orange in color shall be flagged at 1.8 meter intervals with red or orange florescent tape Maintenance shall commence immediately after erection of the tree/vegetation protection barrier and continue until one week prior to acceptance of the contract. The barrier shall not be temporarily removed to allow equipment access over a protected area, except as required for items of work specifically shown on the plans and approved by the Engineer in writing. Maintenance shall consist of replacing damaged post(s) and fencing, and

ITEM 615.0402--08 M - TREE/VEGETATION PROTECTION BARRIER

tightening fencing.

Warning signs reading "Protected Site" - "Keep Out" shall be mounted on the tree/vegetation protection barrier as required by the Engineer, but at no more than 30 meter intervals. Signs shall be 400mm by 600mm with 100mm black letters on a white background.

METHOD OF MEASUREMENT:

Tree/vegetation protection barriers will be measured as the number of meters of barrier erected, measured along the top of the barrier erected.

BASIS OF PAYMENT:

The unit price bid per meter shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work.

Relocation of a tree/vegetation barrier from one location to another as directed by the Engineer shall be considered as a new location and shall be separately paid.

Fifty percent (50%) of the price bid shall be paid after satisfactory installation of the tree/vegetation protection barrier. The remaining fifty percent shall be paid after complete removal of the tree/vegetation barrier except that any unit or length not properly maintained shall be deducted from the final payment on a prorated basis.

ITEM 24616.07 M -- LIVE CUTTING PLANTING
ITEM 24616.08 M -- LIVE STAKE PLANTING (26 to 50 mm)
ITEM 24616.09 M -- LIVE STAKE PLANTING (51 to 100 mm)

DESCRIPTION

Live cuttings and live stakes consist of branch cuttings from freshly cut dormant plants. Under this item the Contractor shall furnish and install live cuttings and/or live stakes in soil, in joint plantings (plantings located in joints in riprap and stone fill), and in other erosion control applications in accordance with the contract documents.

MATERIALS

Live cuttings shall be 12 to 25 mm in diameter and 0.3 to 1.2 m long.

Live stakes shall be 26 to 50 mm or 51 to100 mm in diameter and 1.5 to 1.8 m long.

No leaf buds shall have initiated growth beyond 6 mm and the cambium layer shall be moist, green, and healthy. All material shall be maintained in a continuously cool, covered, and moist state. All plant material shall be in good condition when installed. Materials harvested on site shall to be installed the same day they are prepared. Nursery grown material shall be soaked for 24 hours prior to installation.

The live cuttings/live stakes shall have side branches cleanly removed and with the bark intact. The basal ends shall be cut at an angle for easy insertion into the soil and the top cut square.

See contract documents for plant species, size, spacing, and planting season specifications.

Plant material substitutions shall be approved by the Engineer prior to delivery to the project site.

Water shall meet the requirements of § 712-01.

CONSTRUCTION DETAILS

Live cutting/live stakes shall be planted with the pointed end in the ground.

Live cuttings shall be inserted by hand into a pilot hole. Use a dead-blow hammer to drive live stakes into the ground. Care shall be taken not to damage live cutting/live stakes during installation. Use of a dibble, a bar, or similar tool for preforming holes and to work an access point through any rock layer is required to prevent damage to plant material during installation. Damaged plant material shall be left in place and supplemented with an intact live stake.

ITEM 24616.07 M -- LIVE CUTTING PLANTING
ITEM 24616.08 M -- LIVE STAKE PLANTING (26 to 50 mm)
ITEM 24616.09 M -- LIVE STAKE PLANTING (51 to 100 mm)

Live cuttings/live stakes shall be inserted at least two-thirds their length in soil. In joint plantings, live cuttings/live stakes shall be inserted to one-half their length into soil below stone fill with a minimum 50 mm to 100 mm and two buds exposed above the stone fill. When possible, upon insertion the soil around the live cutting/stake shall be tamped to insure contact with the soil.

Care of Planted Materials During Construction. The Contractor shall care for the planted materials until final acceptance of the contract. Care of planted material shall consist of keeping plant material in a healthy growing condition by watering.

When the Engineer determines that any area within the installation has failed, for any reason, to produce approximately 75% vegetative growth after a suitable period of time the Contractor shall repeat or rectify all the work required by the specification until the growth of vegetation has been established at no additional cost to the State.

METHOD OF MEASUREMENT

The quantity of live cuttings/live stakes will be measured as the number of live cuttings/live stakes of each kind or size as set forth in the contract documents satisfactorily installed and accepted.

BASIS OF PAYMENT

The unit price bid per live cuttings/live stakes shall include the cost of furnishing all labor, materials, and equipment necessary to complete the work including excavation, backfill and watering.

Description: This work shall consist of grading, cleaning and reshaping existing ditches so that adequate, unobstructed free flowing drainage is restored.

The Contractor shall:

A. Grade, clean and reshape the existing ditches including removal of excess material as ordered by the Engineer to restore drainage.

B. Shape the backslope in cut sections up to the final elevation of the nearest edge of pavement.

Materials: (Not Specified)

Construction Details: The grading, cleaning and reshaping of existing ditches shall consist of rendering the ditches free of obstructions including the removal of earth, sod, brush and debris.

Material removed from existing ditches shall be disposed of in conformance with the provisions of subsection 203-3.02 B. *Disposal of Surplus Excavated Materials*.

The Contractor shall exercise due care to protect all trees, fences, markers, culverts, underground structures, utilities and installations within and adjacent to the work area. Facilities damaged by the Contractors operation shall be replaced in kind at no expense to the State.

Method of Measurement: This work shall be measured as the number of linear meters of ditch along which such above described work is performed.

Basis of Payment: The unit price bid per linear meter for this work shall include the cost of furnishing all labor, material and equipment necessary to satisfactorily complete the described work except that the following items of work will be paid for under their respective pay items:

A. Seeding and mulching of disturbed areas within the ROW.

B. Cleaning of culverts.

C. Required shoulder excavation as ordered by the Engineer.

D. Required shoulder trimming and reshaping as ordered by the Engineer.

E. Slope excavation and shaping in cut sections required above the final elevation of the nearest edge of pavement.

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ITEM 664.9408 08 - POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS (GRAVITY)

DESCRIPTION

This work shall consist of furnishing, installing, and testing a polyvinyl chloride gravity sanitary sewer pipe and fittings and making necessary connections to the existing gravity sanitary sewer pipe and manholes with polyvinyl chloride couplings and adapters or special manufactured adapters for connecting unlike materials at the location indicated on the plans, or as directed by the Engineer.

MATERIALS

The Contractor shall be responsible for all material furnished under this item and shall replace, at his expense, all material found defective in manufacture or damaged in handling. Material shall be as follows:

Polyvinyl Chloride (PVC) Sewer Pipe

The pipe and fittings furnished shall meet the requirements of ASTM D3034-SDR35, ASTM F-679, ASTM F477 and ASTM D3212, which are current on the date of advertisement for bids for the class of pipe to be specified by the owning agency.

Fittings

All fittings and accessories shall be as manufactured and furnished by the pipe supplier and have bell and/or spigot configurations identical to that of the pipe to which they are connected.

Sanitary Sewer Marking Tape

The Contractor shall furnish and install an underground marking tape along all sewer lines, force main, and house connections. The material shall be PVC tape, green in color, 75 mm (3") minimum width, and be marked with the words "Caution - Sanitary Sewer." This marked warning shall be repeated on the tape every 400 mm to 900 mm.

CONSTRUCTION DETAILS

A. Excavation - Excavation shall conform to the requirements of Section 206, Trench, Culvert and Structure Excavation, except as modified herein and the limits as shown in the Contract Plans.

B. Backfilling - General - Backfilling shall conform to the requirements of Section 206, Trench, Culvert and Structure Excavation. No trench, pit or other excavation shall be backfilled until the pipe or appurtenant structures contained therein have been completely installed, inspected and approved by the Engineer and applicable municipality, as appropriate. In backfilling around and over pipes, stone bedding material shall be spread in layers not over 150mm in depth on both sides of the pipe and thoroughly spaded and tamped around the pipe so that no displacement of the pipe results. Backfill for a

minimum distance of 300 mm above the top of the pipe shall be of the same material and spread in layers not to exceed 150mm in thickness or depth. Each layer shall be thoroughly compacted by spading and tamping before further refilling is done. In all cases, the backfill above the top of the pipe shall be placed to a minimum of 300 mm before compaction is begun directly over the pipe. All backfill material adjacent to the pipe shall be compacted by hand.

After partially backfilling and leveling the trenches to a height of 450 mm to 600 mm above the crown of the pipe, the sanitary sewer marking tape shall be spread above the prepared surface as straight as possible. The tape shall be held in position by adding backfill with hand shovels before finishing the backfill. When a roll is finished, a second roll shall overlap the end of the first roll by not less than one meter. If the sewer line or house connection does not end into a manhole, the tape shall be extended at least one meter beyond the plugged end of line. Payment for the marking tape shall be included in the price bid for the pipe.

C. Laying Sewer Pine - The sewer pipe shall be bedded on a minimum of 150 mm of stone bedding material. Excavation of trenches for sewer pipe shall be made to line and grade established or as directed by the Engineer and shall be made straight and true with no deviations from a straight line or grade between manholes. The sewer pipe shall be laid upgrade on a continuous foundation and not on blocks.

The trench bottom shall be flat. Holes for bells or couplings shall be dug so that no portion of the bell or coupling will contribute to the support of the pipe. The barrel of the pipe shall be uniformly supported throughout the entire length. Should over digging occur, all loosened material shall be removed and the trench bottom brought back to grade with stone bedding material. Bedding material shall be according to specifications and shall be placed and tamped in a manner satisfactory to the Engineer. Bedding material in such instances shall be placed at the sole expense of the Contractor.

In areas where unstable trench bottoms are encountered, the trench shall be excavated to an additional depth below the layer of stone bedding material and a layer of stone foundation material placed and graded so as to properly support the bedding material, pipe, and backfill. The depth shall vary according to actual conditions. Payment for such foundation material shall be as hereinafter specified.

Before joining the pipes, the joints shall be coated, using a brush, with a lubricant recommended by the manufacturer. The spigot shall be positioned in the bell of the preceding pipe and pushed home by hand or with a metal bar. If a metal bar is used, the bell of the entering pipe shall be protected with a block of wood to prevent damage to the pipe. The pipe layer shall assure that the joint has been "pushed home." The inside of each pipe shall be inspected and all foreign matter, joint material that squeezed through, etc., shall be removed before backfilling. Care shall be taken in placing backfill so that the joints are not loosened or sprung. The backfill shall be packed

and tamped into place under the pipe. All loosened or broken joints shall be removed and replaced.

D. Continuity of Operation and Scheduling - It is essential that the work be performed so that continuity of service shall be maintained at all times. Interruption of normal flow shall be permitted only after approvals have been given in writing by the Engineer and applicable municipality as appropriate. Such interruptions shall extend over a minimum period of time; and overruns of the permitted time, as well as unauthorized interruptions, shall subject the Contractor to the payment of liquidated damages of $500 per day to compensate the applicable municipality for damages it may sustain as a result of such overruns or unauthorized interruptions.

The Contractor shall cooperate with the applicable municipality and shall coordinate all his or her activities to prevent interruptions in normal service and operating procedure. The Contractor is responsible for notifying the applicable municipality one week prior to the visual inspection and two weeks prior to testing.

It shall be mandatory that, except for any approved/scheduled interruption, the normal service shall be kept in continuous operation. This shall be accomplished by temporary bypass, pumping, etc as required by the Engineer and applicable municipality. Should the Contractor cause an unauthorized interruption of normal service or overrun the scheduled period for an authorized interruption, the Engineer shall deduct and retain out of such moneys as may be due or may become due and payable to the Contractor for the work, for damages the applicable municipality may sustain by reason of such overrun or unauthorized interruption of normal service. This amount/sum shall in no way be considered as a penalty.

E. Deflection Test - Each section of sewer line shall, unless otherwise directed by the Engineer, be tested for deflection and/or flattening. Such test shall be made by the Contractor only after backfilling operations have been completed.

The test shall be made by pulling a Go No-Go device of matching diameter, such as a sewer-cleaning bucket, through the pipe. Any section of pipe not able to pass the device shall be replaced and the test repeated until successful. The type of device used shall be previously approved by the Engineer and applicable municipality.

F. Leakage Tests - Unless otherwise directed by the Engineer, all sewers, service connections and sewer laterals shall be tested for leakage and shall satisfactorily meet the test requirements. No connections to existing sewer laterals shall be made until the leakage requirements are met. The Contractor shall furnish labor, materials, and equipment and shall perform the tests. The Contractor shall make all necessary repairs or replacements and shall repeat the final leakage test(s), until the minimum leakage requirements are met.

Leakage tests shall be made only after backfilling is completed. Three types of tests will be acceptable: (a) Exfiltration Test, (b) Infiltration Test, or (c) Low Pressure Air Test. The type of test used will depend upon the extent and type of installation and shall be as directed by the Engineer. Each sanitary sewer manholes, with the exception of doghouse manholes, shall successfully pass a vacuum test.

1. Exfiltration Test - In this test, the main sewer, sewer laterals, and manholes shall be filled with clear water to provide a head of at least 1.5 meters above the top of the pipe or 1.5 meters above the level of the groundwater table, whichever is higher, at the highest point of the sewer line under test. The loss of water from the line shall be measured as the amount, which must be added to maintain the original level. In this test, the line shall remain filled with water for at least 24 hours prior to taking measurements. The actual test period shall not be less than two hours.

   For purposes of determining the elevation of the top of the groundwater table, the Contractor shall furnish and install an open-end standpipe of perforated pipe. The stand-pipe shall be installed at least 24 hours before the line is filled with water. One stand-pipe shall be installed for each section of sewer line tested. A section of sewer shall be defined as the length of main sewer, including sewer laterals, between two consecutive manholes. Following successful completion of the leakage tests, the standpipe shall be filled with approved material and the top cut off at least 0.6 meters below finished grade.

   Exfiltration shall be measured by the drop of water level in a stand-pipe or in one of the sewer manholes. When a standpipe and plug arrangement is used in the upper manhole of a line under test, there shall be some positive method of releasing entrapped air in the sewer prior to taking measurements. In the case of sewers laid on steep grades, the length of line to be tested at any one time may be limited by the maximum allowable internal pressure on the pipe and joints at the lower end of the line. The recommendations of the pipe manufacturer shall be followed. When the level of the groundwater table is of such height that the manholes cannot be used for convenient measuring, or if the vertical distance between the top of the pipe and the manhole rim is less than 1.5 meters, the Contractor shall test the pipe separately from the manholes utilizing the stand-pipe method including plugs, hoses, etc., to establish the required head of water. Manholes shall then be tested separately.

   The total leakage of any section tested shall not exceed the rate of 235 liters per km per 24 hours per 25 mm of nominal pipe diameter. For purposes of determining the maximum allowable leakage, manholes shall be considered as sections of 1200 mm or 1500 mm diameter pipe, depending on the type manhole included in the test. The equivalent leakage allowance shall be 17 Liters per manhole per 24 hours for 1200 mm diameter manholes, and 22 Liters per manhole per 24 hours for 1500 mm diameter manholes.

2. Infiltration Test - This test shall be made on a section or sections of sewer as directed by the Engineer, after back-filling has been completed and after a sufficient interval of time has elapsed to permit the ground-water to rise up to its normal level.

   Normal ground water level, as herein referred to, shall be the elevation to which the groundwater rises when unaffected by any denaturing operations within the area of influence.

   The Contractor shall furnish and install an approved type low head measuring weir or other approved measuring device in the invert at the downstream end of the section together with all other necessary facilities required to properly perform the test. It is intended that the test shall be made as soon thereafter as the ground water has risen to its normal level to the satisfaction of the Engineer and all necessary facilities for conducting the test are in position.

   A continuous 24-hour test period shall be required except, when directed by the Engineer, a longer test period is necessary. The maximum allowable quantity of infiltration or leakage into the portion of sewer under test shall not exceed 235 liters per km per 24 hours per 25 mm of nominal pipe diameter. Tributary house connections shall not be included with the sewer pipe in determining infiltration allowances. There shall be no separate infiltration allowance for manholes except that manholes shall not be deducted from the length of pipe used in computing the total infiltration allowance for the section under test.

3. Low Pressure Air Test - This leakage test consists of plugging each section of sewer, pressurizing the line with air, and measuring the pressure drop time relationship.

   Each end of the section of line to be tested shall be sealed off with inflatable pneumatic or manual plugs, which shall hold against the air pressure without external bracing and without movement. Plugs shall have at least two valved connections opening into the pipe section, one for introducing low-pressure air and one for connecting an approved air gauge calibrated in 2 kPa increments. Air shall be introduced into the test section to a pressure of 28 kPa above the average pressure of any ground water that may be over the pipe. In such ground water areas, the Contractor shall install during the original installation a 13 mm capped pipe nipple through the manhole wall at a level of the top of the lowest pipe. The ground water level shall be determined by clearing the nipple with air and connecting a clear plastic hose to the same and measuring the water level in the hose. The height of the water level in meters above the pipe invert divided by 0.102 shall establish the kPa to be added to all readings.

   A minimum of two minutes shall be allowed for the pressure to stabilize during which time the pressure shall not drop more than 3.44 kPa. The air supply shall then be disconnected and the time in minutes shall be recorded for the pressure to drop no more than 6.89 kPa. Such time shall not be less than the following:

NOMINAL SIZE	MINUTES
4NPS	2.0
6NPS	3.0
8 NPS	4.0
10 NPS	5.0
12 NPS	5.5
15NPS	7.5
18 NPS	8.5
21 NPS	10.0
24NPS	11.5
27 NPS	13.0
30 NPS	14.5
33 NPS	16.0
36 NPS	17.5

4. Vacuum Test - The vacuum test is based upon the time, measured in seconds, for the vacuum within the manhole to decrease from 33.9 kPa (10 inches of mercury) to 30.5 kPa (9 inches of mercury). The testing gauge shall be calibrated prior to the testing with documentation of the calibration results provided to the Engineer. The acceptance for manholes is based upon:

MANHOLE DEPTH (M)	MAXIMUM TIME TO DROP 3.4 kPa (SECONDS)
3.0 AND LESS	120
3.0 TO 4.5	150
4.5 TO 7.6	180

Above times are based upon 1.2 m (4 ft) ID manholes. For 1.5 m (5 ft) ID manholes, increase the above times by 30 seconds. For 1.8 m (6 ft) ID manholes, increase the above times by 60 seconds.

G. Video Inspection - Prior to final acceptance of the sanitary sewer, video inspection of all sanitary sewer mains and laterals shall occur after an acceptable settlement period has occurred, as directed by the Engineer and applicable municipality. Two copies of the video (DVD format) shall be supplied to the Engineer along with route sheets or logs indicating location (station or manhole number) of where the video was taken.

METHOD OF MEASUREMENT

This work will be measured as the number of meters of new sewer pipe (including all necessary connections and fittings) furnished and installed in accordance with the plans, specifications and as directed by the Engineer.

BASIS OF PAYMENT

ITEM 664.9408 08 - POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS (GRAVITY)

The unit prices bid per meter for these items shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work including pipe, fittings, connections, testing, and maintaining the existing system. Excavation, sheeting and backfill material will be paid for separately under their respective items.

Payment will be made under:

ITEM NO.	ITEM DESCRIPTION	UNIT
664.9408--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 8 NPS (Gravity)	Meter
664.9410--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 10 NPS (Gravity)	Meter
664.9412--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 12 NPS (Gravity)	Meter
664.9415--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 15 NPS (Gravity)	Meter
664.9418--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 18 NPS (Gravity)	Meter
664.9420--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 20 NPS (Gravity)	Meter
664.9424--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 24 NPS (Gravity)	Meter
664.9427--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 27 NPS (Gravity)	Meter
664.9430--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 30 NPS (Gravity)	Meter
664.9433--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 33 NPS (Gravity)	Meter
664.9436--08	Polyvinyl Chloride (PVC) Sewer Pipe & Fittings, 36 NPS (Gravity)	Meter

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FEDERAL (DAVIS-BACON) WAGE RATES

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00445

General Decision Number: NY100006 12/23/2011 NY6

Superseded General Decision Number: NY20080006

State: New York

Construction Types: Heavy and Highway

Counties: Clinton and Essex Counties in New York.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes and apartments up to and including 4 stories), HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	03/12/2010
1	07/23/2010
2	09/24/2010
3	10/08/2010
4	10/15/2010
5	10/22/2010
6	11/12/2010
7	11/19/2010
8	12/03/2010
9	01/28/2011
10	05/20/2011
11	06/03/2011
12	06/10/2011
13	08/12/2011
14	09/02/2011
15	09/23/2011
16	12/23/2011

BRNY0002-013 07/01/2011

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 30.72	15.84

FOOTNOTE:

a. PAID HOLIDAYS: Memorial Day, July the 4th, Labor Day, and Thanksgiving Day (provided the employee is employed (1) day before and (1) day after the holiday.

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* CARP0290-004 07/01/2011

	Rates	Fringes
CARPENTER		
HEAVY & HIGHWAY CONSTRUCTION		
Carpenter	$ 27.65	15.86
Pile Driver	$ 27.65	15.86

ELEC0910-001 04/01/2011

	Rates	Fringes
ELECTRICIAN	$ 31.00	$15.05+3%

ELEC1249-003 01/01/2011

	Rates	Fringes
LINE CONSTRUCTION: Lineman		

(LIGHTING AND TRAFFIC SIGNAL
Including any and all Fiber
Optic Cable necessary for
Traffic Signal Systems,
Traffic Monitoring systems
and Road Weather information
systems)

Flagman	$ 23.28	15.00 + 6.5% +a
Groundman Truck Driver (tractor trailer unit)	$ 32.98	15.00 + 6.5% +a
Groundman Truck Driver	$ 31.04	15.00 + 6.5% +a
Lineman & Technician	$ 38.80	15.00 + 6.5% +a
Mechanic	$ 31.04	15.00 + 6.5% +a

FOOTNOTE:

a. New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, plus President's Day, Good Friday, Decoration Day, Election Day for the President of the United States and Election Day for the Governor of the State of New York, provided the employee works the day before or the day after the holiday.

ELEC1249-004 01/01/2011

	Rates	Fringes
Line Construction:		
Overhead and underground distribution and maintenance work and all overhead and underground transmission line work including any and all fiber optic ground wire, fiber optic shield wire or any other like product by any other name manufactured for the dual purpose of ground fault protection and fiber optic capabilities (where no other trades are or have been involved):		
Flagman	$ 24.79	15.00+6.5%+a
Groundman digging machine operator	$ 37.19	15.00+6.5%+a
Groundman truck driver (tractor trailer unit)	$ 35.12	15.00+6.5%+a
Groundman Truck driver	$ 33.06	15.00+6.5%+a
Lineman and Technician	$ 41.32	15.00+6.5%+a
Mechanic	$ 33.06	15.00+6.5%+a
Overhead transmission line work (where other trades are or have been involved):		
Flagman	$ 26.29	15.00+6.5%+a
Groundman digging machine operator	$ 39.44	15.00+6.5%+a
Groundman truck driver (tractor trailer unit)	$ 37.25	15.00+6.5%+a
Groundman truck driver	$ 35.06	15.00+6.5%+a
Lineman and Technician	$ 43.82	15.00+6.5%+a
Mechanic	$ 35.06	15.00+6.5%+a
Substation:		
Cable Splicer	$ 45.45	15.00+6.5%+a
Flagman	$ 24.79	15.00+6.5%+a
Ground man truck driver	$ 33.06	15.00+6.5%+a

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Groundman digging machine operator	$ 37.19	15.00+6.5%+a
Groundman truck driver (tractor trailer unit)	$ 35.12	15.00+6.5%+a
Lineman & Technician	$ 41.32	15.00+6.5%+a
Mechanic	$ 33.06	15.00+6.5%+a
Switching structures; railroad catenary installation and maintenance, third rail type underground fluid or gas filled transmission conduit and cable installations (including any and all fiber optic ground product by any other name manufactured for the dual purpose of ground fault protection and fiber optic capabilities), pipetype cable installation and maintenance jobs or projects, and maintenance bonding of rails; Pipetype cable installation		
Cable Splicer	$ 46.87	15.00+6.5%+a
Flagman	$ 25.57	15.00+6.5%+a
Groundman Digging Machine Operator	$ 38.35	15.00+6.5%+a
Groundman Truck Driver (tractor-trailer unit)	$ 36.22	15.00+6.5%+a
Groundman Truck Driver	$ 34.09	15.00+6.5%+a
Lineman & Technician	$ 42.61	15.00+6.5%+a
Mechanic	$ 34.09	15.00+6.5%+a
TELEPHONE, CATV FIBEROPTICS CABLE AND EQUIPMENT		
Cable splicer/Central Office Person	$ 23.07	3.05+3%
Cable splicer	$ 27.44	4.43 + 3%
Groundman	$ 13.81	4.43 + 3%
Installer Repairman-Teledata Lineman/Tecnician-Equipment Operator	$ 26.05	4.43 + 3%
TREE TRIMMER	$ 21.64	7.36+3%

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, Good Friday, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, and Election Day for the President of the United States and Election Day for the Governor of New York State, provided the employee works two days before or two days after the holiday.

b. New Years Day, Washington's Birthday, Good Friday, Decoration Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Day after Thanksgiving Day and Christmas Day.

ENGI0106-001 07/01/2011

HEAVY & HIGHWAY

	Rates	Fringes

Power equipment operators:

GROUP 1	$ 33.79	21.85+a
GROUP 2	$ 33.36	21.85+a
GROUP 3	$ 32.45	21.85+a
GROUP 4	$ 29.88	21.85+a
GROUP 5	$ 34.97	21.85+a
GROUP 6	$ 33.79	21.85+a
GROUP 7	$ 33.79	21.85+a

POWER EQUIPMENT OPERATOR CLASSIFICATIONS (HEAVY & HIGHWAY)

GROUP 1: Boom Truck (over 5 tons), Crane, Cherry Picker (over 5 ton capacity), Derricks (steel erection), Dragline, Overhead Crane (Gantry or Straddle type), Pile Driver, Truck Crane

GROUP 2: Automated Concrete Spreader (CMI), Automatic Fine Grader, Backhoe (Except Tractor Mounted, Rubber Tired), Backhoe Excavator Full Swing (CAT 212 or similar type), Belt Placer (CMI type), Black Top Plant (Automated), Boom Truck (5 tons and under), Cableway, Caisson Auger, Central Mix Concrete Plant (Automated), Concrete Pump (8" or over), Dredge, Dual Drum Paver, Excavator (All Purpose-Hydraulicly Operated) (Gradall or similar), Fork Lift (Factory Rated 15 ft. and over), Front End Loader (4 c.y. and over), Head Tower (Sauerman or equal), Hoist (2 or 3 Drum), Holland Loader, Mine Hoist, Mucking Machine or Mole, Pavement Breaker (SP) Wertgen; PB-4 and similar type, Power Grader, Profiler (over 105 H.P), Quad 9, Quarry Master (or equivalent), Scraper, Shovel, Side Boom, Slip Form Paver, Tractor Drawn Belt-Type Truck Crane, Truck or Trailer Mounted Log Chipper (Self-Feeder), Tug Operator (Except Manned Rented Equipment), Tunnel Shovel

GROUP 3: Asphalt Paver, Backhoe (Tractor Mounted, Rubber Tired), Bituminous Spreader and Mixer, Blacktop Plant (Non-Automated), Blast or Rotary Drill (Truck or Tractor Mounted), Boring Machine, Cage-Hoist, Central Mix Plant (Non-Automated) and All Concrete Batching Plants, Cherry Picker (5 Tons Capacity and Under), Compressors (4 or less) Exceeding 2000 C.F.M. Combined Capacity, Concrete Paver (over 16S), Concrete Pump (Under 8"), Crusher, Diesel Power Unit, Drill Rigs (Tractor Mounted), Front End Loader (under 4 c.y.), Hi-Pressure - Boiler (15 lbs. and over), Hoist (One Drum), Kolman Plant Loader and Similar Type Loaders, L.C.M. Work Boat Operator, Locomotive, Maintenance Engineer/Greaseman/ Welder, Mixer (For Stabilized Base Self-Propelled), Monorail Machine, Plant Engineer, Profiler (105 H.P. and under), Pug Mill, Pump Crete, Ready Mix Concrete Plant, Refrigeration Equipment (For Soil Stabilization), Road Widener, Roller (All Above Subgrade), Sea Mule, Self-contained Ride-on-Rock Drill, excluding Air-Track Type Drill, Skidder, Tractor with Dozer and/or pusher, Trencher, Tugger Hoist, Vermeer saw (ride on, any size or type), Winch, Winch Cat

GROUP 4: A-Frame Winch Hoist on Truck, Ballast Regulator (Ride- On), Compressors (4 not to exceed 2000 C.F.M. Combined Capacity, or 3 or less with more than 1200 C.F.M. but not to exceed 2000 C.F.M.), Directional Drill Machine Locator Dust Collectors, Generators, Pumps, Welding Machines, Light Plants (4 of Any Type Of Combination), Concrete Pavement Spreaders and Finishers, Conveyor, Drill Core, Drill Well, Electric Pump Used In Conjunction with Well Point System, Farm Tractor with Accessories, Fine Grade Machine, Fork Lift (under 15 ft.), Grout Pump, Gunite

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Machine, Hammers (Hydraulic-Self-Propelled), Hydra- Spiker (Ride-On), Hydro-Blaster Water, Post Hole Digger and Post Driver, Power Sweeper, Roller (Grade and Fill), Scarifier (Ride-On Spansaw (Ride-On), Skid Steer loader (Bobcat or similar), Submersible Electric Pump (When Used In Lieu Of Well Point System), Tamper (Ride-On), Tie Extractor (Ride-On), Tie Handler, Tie Inserter (Ride-On), Tie Spacer (Ride-On), Tire Repair, Track Liner, Tractor With Towed Accessories, Vibrator Compactor, Vibro Tamp, Well Point, Aggregate Plant, Boiler (Used In Conjunction With Production), Cement and Bin Operator, Compressors (3 or less not to Exceed 1200 C.F.M. Combined Capacity), Dust Collectors, Generators, Pumps, Welding Machines, Light Plants (3 or less of Any Type or Combination), Concrete or Mixer (16S and under), Concrete Saw (Self-Propelled), Fireman, Form Tamper, Hydraulic Pump (Jacking System), Light Plants, Mulching Machine, Oiler, Parapet-Concrete or Pavement Grinder, Power Broom (Towed), Power Heaterman, Revinius Widener, Shell Winder, Steam cleaner, Tractor

GROUP 5: Master Mechanic

GROUP 6: Crane Premium with Boom Length and Jib 150 Ft.- 199 Ft.

GROUP 7: Crane Premium with Boom Length and Jib 200 Ft. and over

Tower Crane Premium	.50
Hazmat Work Premium	2.50
Hydrographic	.50

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, Lincoln's Birthday, Washington's Birthday, Good Friday, Columbus Day, November Election Day and Veteran's Day

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IRON0012-002 05/01/2011

	Rates	Fringes
Ironworkers:		
SHEETER, BUCKER-UP	$ 25.78	17.96
SHEETER	$ 27.90	19.24
STRUCTURAL, ORNAMENTAL, MACHINERY MOVER & RIGGERS, FENCE ERECTOR, REINFORCING, STONE DERRICKMAN, WELDER	$ 27.65	19.24

LABO0186-004 07/01/2010

HEAVY & HIGHWAY

	Rates	Fringes
Laborers:		
GROUP 1	$ 22.54	15.38+a
GROUP 2	$ 22.74	15.38+a
GROUP 3	$ 22.94	15.38+a
GROUP 4	$ 23.14	15.38+a
GROUP 5	$ 24.54	15.38+a

LABORERS CLASSIFICATIONS (HEAVY & HIGHWAY)

00450

GROUP 1. Basic Rate, Flagman Outboard and Hand Boats.

GROUP 2. Bull Float, Chain Saw, Concrete Aggregate Bin, Concrete Bootman, Gin Buggy, Hand or Machine Vibrator, Jack Hammer, Mason Tender, Mortar Mixer Paverment Breaker, Handlers of all Steel Mesh, Small Generators of Laborers' tools, installation of bridge drainage pipe, Pipe Layers, Vibrator type rollers, tamper, Drill doctor, tail or screw operator on asphalt paver, water pump operator (1 1/2" and single diaphragm) nozzle (asphalt, gunite, seeding and sand blasting), Laborers on chain link fence erection, Rock splitter and power unit, pusher type concrete saw and all other gas, electric, oil and air tool operators, Wrecking Labor.

GROUP 3. All rock or drilling machine operators (except quarry master and similar type) Acetylene Torch operator, asphalt raker, powderman.

GROUP 4. Blaster, form setters, stone or granite curb setters.

GROUP 5. Hazardous Waste, Asbestos Abatement and Removal.

FOOTNOTE:
a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

PAIN0009-006 05/01/2011

	Rates	Fringes
Painters:		
Zone #2 All of ESSEX COUNTY		
Lead Abatement Workers, Structural Steel	$ 26.04	9.88
Painters, Drywall Finishers, Spray	$ 25.04	9.88
Zone #3 All of CLINTON COUNTY		
Lead Abtatement Workers, Structural Steel	$ 22.44	11.98
Painters, Drywall Finishers, Spray	$ 21.44	11.98

PAIN0806-003 10/01/2010

CLINTON AND ESSEX COUNTIES

	Rates	Fringes
Painters:		
Structural Steel and Bridge	$ 46.25	31.03

PLUM0773-001 05/01/2011

	Rates	Fringes
Plumber and Steamfitter		
CLINTON COUNTY	$ 30.25	20.53
ESSEX COUNTY	$ 31.25	20.53

SHEE0083-001 06/01/2011

	Rates	Fringes
Sheet metal worker	$ 29.78	20.21+a

00451

FOOTNOTE:
a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day. If any of these holidays fall on a Saturday or Sunday, either the preceding Friday or following Monday will be observed as the holiday.

TEAM0648-001 06/01/1991

	Rates	Fringes
Truck drivers:		
HEAVY & HIGHWAY CONSTRUCTION		
GROUP 1:.....	$ 16.18	4.44+a
GROUP 2:.....	$ 16.23	4.44+a
GROUP 3:.....	$ 16.28	4.44+a
GROUP 4:.....	$ 16.43	4.44+a
GROUP 5:.....	$ 16.58	4.44+a

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, provided the employee has worked the day before and the day after the holiday.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Pick-ups, panel trucks, flatboy materials trucks (straight jobs), single axle dump trucks, dumpsters and receivers, greasers, truck tireman.

GROUP 2: Tandems, batch truck, mechanics.

GROUP 3: Semi-trailers, low-boy trucks, asphalt distributor trucks, agitator, mixer trucks and dumpcrete type vehicles, truck mechanic and fuel truck.

GROUP 4: Specialized earth moving equipment - euclid type or similar off-highway equipment, where not self-loaded, straddle (ross) carrier, self-contained concrete unit.

GROUP 5: Off-highway tandem back dump, twin engine equipment and double hitched equipment where not self-loaded.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical

order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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STATE PREVAILING WAGE RATES

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Andrew M. Cuomo, Governor

Colleen C. Gardner, Commissioner

Essex County

Christopher Cornwell, Project Engineer
Foit-Albert Assocates
435 New Kamer Road
Albany NY 12205-5831

Schedule Year 2011 through 2012
Date Requested 08/20/2011
PRC# 2009007265

Location	Essex County
Project ID#	PIN 1754.96
Project Type	Implementation of a traffic control plan; Reconstruction of approximately 2600 meters of asphalt highway; Drainage improvements along 3000 meters of highway through both open and closed systems;

PREVAILING WAGE SCHEDULE FOR ARTICLE 8 PUBLIC WORK PROJECT

Attached is the current schedule(s) of the prevailing wage rates and prevailing hourly supplements for the project referenced above. A unique Prevailing Wage Case Number (PRC#) has been assigned to the schedule(s) for your project.

The schedule is effective from July 2011 through June 2012. All updates, corrections, posted on the 1st business day of each month, and future copies of the annual determination are available on the Department's website www.labor.state.ny.us. Updated PDF copies of your schedule can be accessed by entering your assigned PRC# at the proper location on the website.

It is the responsibility of the contracting agency or its agent to annex and make part, the attached schedule, to the specifications for this project, when it is advertised for bids and /or to forward said schedules to the successful bidder(s), immediately upon receipt, in order to insure the proper payment of wages.

Please refer to the "General Provisions of Laws Covering Workers on Public Work Contracts" provided with this schedule, for the specific details relating to other responsibilities of the Department of Jurisdiction.

Upon completion or cancellation of this project, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

NOTICE OF COMPLETION / CANCELLATION OF PROJECT

Date Completed: _____ Date Cancelled: _____

Name & Title of Representative: _____

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12240

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General Provisions of Laws Covering Workers on Article 8 Public Work Contracts

Introduction

The Labor Law requires public work contractors and subcontractors to pay laborers, workers, or mechanics employed in the performance of a public work contract not less than the prevailing rate of wage and supplements (fringe benefits) in the locality where the work is performed.

Responsibilities of the Department of Jurisdiction

A Department of Jurisdiction (Contracting Agency) includes a state department, agency, board or commission: a county, city, town or village; a school district, board of education or board of cooperative educational services; a sewer, water, fire, improvement and other district corporation; a public benefit corporation; and a public authority awarding a public work contract.

The Department of Jurisdiction (Contracting Agency) awarding a public work contract MUST obtain a Prevailing Rate Schedule listing the hourly rates of wages and supplements due the workers to be employed on a public work project. This schedule may be obtained by completing and forwarding a "Request for wage and Supplement Information" form (PW 39) to the Bureau of Public Work. The Prevailing Rate Schedule MUST be included in the specifications for the contract to be awarded and is deemed part of the public work contract.

Upon the awarding of the contract, the law requires that the Department of Jurisdiction (Contracting Agency) furnish the following information to the Bureau: the name and address of the contractor, the date the contract was let and the approximate dollar value of the contract. To facilitate compliance with this provision of the Labor Law, a copy of the Department's "Notice of Contract Award" form (PW 16) is provided with the original Prevailing Rate Schedule.

The Department of Jurisdiction (Contracting Agency) is required to notify the Bureau of the completion or cancellation of any public work project. The Department's PW 200 form is provided for that purpose.

Both the PW 16 and PW 200 forms are available for completion online.

Hours

No laborer, worker, or mechanic in the employ of a contractor or subcontractor engaged in the performance of any public work project shall be permitted to work more than eight hours in any day or more than five days in any week, except in cases of extraordinary emergency. The contractor and the Department of Jurisdiction (Contracting Agency) may apply to the Bureau of Public Work for a dispensation permitting workers to work additional hours or days per week on a particular public work project.

There are very few exceptions to this rule. Complete information regarding these exceptions is available on the "4 Day / 10 Hour Work Schedule" form (PW 30R).

Wages and Supplements

The wages and supplements to be paid and/or provided to laborers, workers, and mechanics employed on a public work project shall be not less than those listed in the current Prevailing Rate Schedule for the locality where the work is performed. If a prime contractor on a public work project has not been provided with a Prevailing Rate Schedule, the contractor must notify the Department of Jurisdiction (Contracting Agency) who in turn must request an original Prevailing Rate Schedule form the Bureau of Public Work. Requests may be submitted by: mail to NYSDOL, Bureau of Public Work, State Office Bldg. Campus, Bldg. 12, Rm. 130, Albany, NY 12240; Fax to Bureau of Public Work (518) 485-1870; or electronically at the NYSDOL website www.labor.state.ny.us.

Upon receiving the original schedule, the Department of Jurisdiction (Contracting Agency) is REQUIRED to provide complete copies to all prime contractors who in turn MUST, by law, provide copies of all applicable county schedules to each subcontractor and obtain from each subcontractor, an affidavit certifying such schedules were received. If the original schedule expired, the contractor may obtain a copy of the new annual determination from the NYSDOL website www.labor.state.ny.us.

The Commissioner of Labor makes an annual determination of the prevailing rates. This determination is in effect from July 1st through June 30th of the following year. The annual determination is available on the NYSDOL website www.labor.state.ny.us.

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. Payrolls must be maintained for at least three (3) years from the project's date of completion. At a minimum, payrolls must show the following information for each person employed on a public work project: Name, Address, Last 4 Digits of Social Security Number, Classification(s) in which the worker was employed, Hourly wage rate(s) paid, Supplements paid or provided, and Daily and weekly number of hours worked in each classification.

Every contractor and subcontractor shall submit to the Department of Jurisdiction (Contracting Agency), within thirty (30) days after issuance of its first payroll and every thirty (30) days thereafter, a transcript of the original payrolls, subscribed and affirmed as true under penalty of perjury. The Department of Jurisdiction (Contracting Agency) shall collect, review for facial validity, and maintain such payrolls.

In addition, the Commissioner of Labor may require contractors to furnish, with ten (10) days of a request, payroll records sworn to as their validity and accuracy for public work and private work. Payroll records include, by are not limited to time cards, work description sheets, proof that supplements were provided, cancelled payroll checks and payrolls. Failure to provide the requested information within the allotted ten (10) days will result in the withholding of up to 25% of the contract, not to exceed $100,000.00. If the contractor or subcontractor does not maintain a place of business in New York State and the amount of the contract exceeds $25,000.00, payroll records and certifications must be kept on the project worksite.

The prime contractor is responsible for any underpayments of prevailing wages or supplements by any subcontractor.

All contractors or their subcontractors shall provide to their subcontractors a copy of the Prevailing Rate Schedule specified in the public work contract as well as any subsequently issued schedules. A failure to provide these schedules by a contractor or subcontractor is a violation of Article 8, Section 220-a of the Labor Law.

All subcontractors engaged by a public work project contractor or its subcontractor, upon receipt of the original schedule and any subsequently issued schedules, shall provide to such contractor a verified statement attesting that the subcontractor has received the Prevailing Rate Schedule and will pay or provide the applicable rates of wages and supplements specified therein. (See NYS Labor Laws, Article 8 . Section 220-a).

Determination of Prevailing Wage and Supplement Rate Updates Applicable to All Counties

The wages and supplements contained in the annual determination become effective July 1st whether or not the new determination has been received by a given contractor. Care should be taken to review the rates for obvious errors. Any corrections should be brought to the Department's attention immediately. It is the responsibility of the public work contractor to use the proper rates. If there is a question on the proper classification to be used, please call the district office located nearest the project. Any errors in the annual determination will be corrected and posted to the NYSDOL website on the first business day of each month. Contractors are responsible for paying these updated rates as well, retroactive to July 1st.

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. To the extent possible, the Department posts rates in its possession that cover periods of time beyond the July 1st to June 30th time frame covered by a particular annual determination. Rates that extend beyond that instant time period are informational ONLY and may be updated in future annual determinations that actually cover the then appropriate July 1st to June 30th time period.

Withholding of Payments

When a complaint is filed with the Commissioner of Labor alleging the failure of a contractor or subcontractor to pay or provide the prevailing wages or supplements, or when the Commissioner of Labor believes that unpaid wages or supplements may be due, payments on the public work contract shall be withheld from the prime contractor in a sufficient amount to satisfy the alleged unpaid wages and supplements, including interest and civil penalty, pending a final determination.

When the Bureau of Public Work finds that a contractor or subcontractor on a public work project failed to pay or provide the requisite prevailing wages or supplements, the Bureau is authorized by Sections 220-b and 235.2 of the Labor Law to so notify the financial officer of the Department of Jurisdiction (Contracting Agency) that awarded the public work contract. Such officer MUST then withhold or cause to be withheld from any payment due the prime contractor on account of such contract the amount indicated by the Bureau as sufficient to satisfy the unpaid wages and supplements, including interest and any civil penalty that may be assessed by the Commissioner of Labor. The withholding continues until there is a final determination of the underpayment by the Commissioner of Labor or by the court in the event a legal proceeding is instituted for review of the determination of the Commissioner of Labor.

The Department of Jurisdiction (Contracting Agency) shall comply with this order of the Commissioner of Labor or of the court with respect to the release of the funds so withheld.

Summary of Notice Posting Requirements

The current Prevailing Rate Schedule must be posted in a prominent and accessible place on the site of the public work project. The prevailing wage schedule must be encased in, or constructed of, materials capable of withstanding adverse weather conditions and be titled "PREVAILING RATE OF WAGES" in letters no smaller than two (2) inches by two (2) inches.

The "Public Work Project" notice must be posted at the beginning of the performance of every public work contract, on each job site.

Every employer providing workers. compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers. Compensation Board in a conspicuous place on the jobsite.

Every employer subject to the NYS Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers, notices furnished by the State Division of Human Rights.

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the NYS Department of Labor.

Apprentices

Employees cannot be paid apprentice rates unless they are individually registered in a program registered with the NYS Commissioner of Labor. The allowable ratio of apprentices to journeyworkers in any craft classification can be no greater than the statewide building trade ratios promulgated by the Department of Labor and included with the Prevailing Rate Schedule. An employee listed on a payroll as an apprentice who is not registered as above or is performing work outside the classification of work for which the apprentice is indentured, must be paid the prevailing journeyworker's wage rate for the classification of work the employee is actually performing.

NYSDOL Labor Law, Article 8, Section 220-3, require that only apprentices individually registered with the NYS Department of Labor may be paid apprenticeship rates on a public work project. No other Federal or State Agency of office registers apprentices in New York State.

Persons wishing to verify the apprentice registration of any person must do so in writing by mail, to the NYSDOL Office of Employability Development / Apprenticeship Training, State Office Bldg. Campus, Bldg. 12, Albany, NY 12240 or by Fax to NYSDOL Apprenticeship Training (518) 457-7154. All requests for verification must include the name and social security number of the person for whom the information is requested.

The only conclusive proof of individual apprentice registration is written verification from the NYSDOL Apprenticeship Training Albany Central office. Neither Federal nor State Apprenticeship Training offices outside of Albany can provide conclusive registration information.

It should be noted that the existence of a registered apprenticeship program is not conclusive proof that any person is registered in that program. Furthermore, the existence or possession of wallet cards, identification cards, or copies of state forms is not conclusive proof of the registration of any person as an apprentice.

Interest and Penalties

In the event that an underpayment of wages and/or supplements is found:

- Interest shall be assessed at the rate then in effect as prescribed by the Superintendent of Banks pursuant to section 14-a of the Banking Law, per annum from the date of underpayment to the date restitution is made.
- A Civil Penalty may also be assessed, not to exceed 25% of the total of wages, supplements, and interest due.

Debarment

Any contractor or subcontractor and/or its successor shall be ineligible to submit a bid on or be awarded any public work contract or subcontract with any state, municipal corporation or public body for a period of five (5) years when:

- Two (2) willful determinations have been rendered against that contractor or subcontractor and/or its successor within any consecutive six (6) year period.
- There is any willful determination that involves the falsification of payroll records or the kickback of wages or supplements.

Criminal Sanctions

Willful violations of the Prevailing Wage Law (Article 8 of the Labor Law) may be a felony punishable by fine or imprisonment of up to 15 years, or both.

Discrimination

No employee or applicant for employment may be discriminated against on account of age, race, creed, color, national origin, sex, disability or marital status.

No contractor, subcontractor nor any person acting on its behalf, shall by reason of race, creed, color, disability, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates (NYS Labor Law, Article 8, Section 220-e(a)).

No contractor, subcontractor, nor any person acting on its behalf, shall in any manner, discriminate against or intimidate any employee on account of race, creed, color, disability, sex, or national origin (NYS Labor Law, Article 8, Section 220-e(b)).

The Human Rights Law also prohibits discrimination in employment because of age, marital status, or religion.

There may be deducted from the amount payable to the contractor under the contract a penalty of $50.00 for each calendar day during which such person was discriminated against or intimidated in violation of the provision of the contract (NYS Labor Law, Article 8, Section 220-e(c)).

The contract may be cancelled or terminated by the State or municipality. All monies due or to become due thereunder may be forfeited for a second or any subsequent violation of the terms or conditions of the anti-discrimination sections of the contract (NYS Labor Law, Article 8, Section 220-e(d)).

Every employer subject to the New York State Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers notices furnished by the State Division of Human Rights.

Workers' Compensation

In accordance with Section 142 of the State Finance Law, the contractor shall maintain coverage during the life of the contract for the benefit of such employees as required by the provisions of the New York State Workers' Compensation Law.

A contractor who is awarded a public work contract must provide proof of workers' compensation coverage prior to being allowed to begin work.

The insurance policy must be issued by a company authorized to provide workers' compensation coverage in New York State. Proof of coverage must be on form C-105.2 (Certificate of Workers' Compensation Insurance) and must name this agency as a certificate holder.

If New York State coverage is added to an existing out-of-state policy, it can only be added to a policy from a company authorized to write workers' compensation coverage in this state. The coverage must be listed under item 3A of the information page.

The contractor must maintain proof that subcontractors doing work covered under this contract secured and maintained a workers' compensation policy for all employees working in New York State.

Every employer providing worker's compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers' Compensation Board in a conspicuous place on the jobsite.

Unemployment Insurance

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the New York State Department of Labor.

Andrew M. Cuomo, Governor

Colleen C. Gardner, Commissioner

Essex County

Christopher Cornwell, Project Engineer
Foit-Albert Assocates
435 New Karner Road
Albany NY 12205-5831

Schedule Year 2011 through 2012
Date Requested 08/20/2011
PRC# 2009007265

Location Essex County
Project ID# PIN 1754.96
Project Type Implementation of a traffic control plan; Reconstruction of approximately 2600 meters of asphalt highway; Drainage improvements along 3000 meters of highway through both open and closed systems;

Notice of Contract Award

New York State Labor Law, Article 8, Section 220.3a requires that certain information regarding the awarding of public work contracts, be furnished to the Commissioner of Labor. One "Notice of Contract Award" (PW 16, which may be photocopied), **MUST** be completed for **EACH** prime contractor on the above referenced project.

Upon notifying the successful bidder(s) of this contract, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

Contractor Information

All information must be supplied

Federal Employer Identification Number: _____

Name: _____

Address: _____

_____

City: _____ State: _____ Zip: _____

Amount of Contract: $_____

Approximate Starting Date: ___/___/___

Approximate Completion Date: ___/___/___

Contract Type:

[ ] (01) General Construction
[ ] (02) Heating/Ventilation
[ ] (03) Electrical
[ ] (04) Plumbing
[ ] (05) Other : _____

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12240

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IMPORTANT NOTICE

FOR

CONTRACTORS & CONTRACTING AGENCIES

Social Security Numbers on Certified Payrolls

The Department of Labor is cognizant of the concerns of the potential for misuse or inadvertent disclosure of social security numbers. Identity theft is a growing problem and we are sympathetic to contractors' concerns with regard to inclusion of this information on payrolls if another identifier will suffice.

For these reasons, ***the substitution of the use of the last four digits of the social security number on certified payrolls submitted to contracting agencies on public work projects is now acceptable to the Department of Labor.***

NOTE: This change does not affect the Department's ability to request and receive the entire social security number from employers during the course of its public work / prevailing wage investigations.

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NEW LEGISLATION

Required Posting For Labor Law
Article 25-B § 861-d

Construction Industry
Fair Play Act

- Construction industry employers must post the "Construction Industry Fair Play Act" notice in a prominent and accessible place on the job site.

- Failure to post the notice can result in penalties of up to $1,500 for a first offense and up to $5,000 for a second offense.

- The posting is included as part of this wage schedule. Additional copies may be obtained from the NYS DOL website, www.labor.ny.gov.

If you have any questions concerning the Fair Play Act, please call the State Labor Department toll-free at 1-866-435-1499 or email us at: dol.misclassified@labor.state.ny.us .

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New York State Department of Labor
Required Notice under Article 25-B of the Labor Law

ATTENTION ALL EMPLOYEES, CONTRACTORS AND SUBCONTRACTORS: YOU ARE COVERED BY THE CONSTRUCTION INDUSTRY FAIR PLAY ACT

The law says that you are an employee unless:

- You are free from direction and control in performing your job AND
- You perform work that is not part of the usual work done by the business that hired you AND
- You have an independently established business

Your employer cannot consider you to be an independent contractor unless all three of these facts apply to your work.

IT IS AGAINST THE LAW FOR AN EMPLOYER TO MISCLASSIFY EMPLOYEES AS INDEPENDENT CONTRACTORS OR PAY EMPLOYEES OFF-THE-BOOKS.

Employee rights. If you are an employee:

- You are entitled to state and federal worker protections such as
  - unemployment benefits, if unemployed through no fault of your own, able to work, and otherwise qualified
  - workers' compensation benefits for on-the-job injuries
  - payment for wages earned, minimum wage, and overtime (under certain conditions)
  - prevailing wages on public work projects
  - the provisions of the National Labor Relations Act and
  - a safe work environment
- It is a violation of this law for employers to retaliate against anyone who asserts their rights under the law. Retaliation subjects an employer to civil penalties, a private lawsuit or both.

Independent Contractors: If you are an independent contractor:

- You must pay all taxes required by New York State and Federal Law.

Penalties for paying off-the-books or improperly treating employees as independent contractors:

- **Civil Penalty** — First Offense: up to $2,500 per employee.
  Subsequent Offense(s): up to $5,000 per employee.
- **Criminal Penalty** — First Offense: Misdemeanor - up to 30 days in jail, up to a $25,000 fine and debarment from performing Public Work for up to one year.
  Subsequent Offense(s): Misdemeanor - up to 60 days in jail, up to a $50,000 fine and debarment from performing Public Work for up to 5 years.

If you have questions about your employment status or believe that your employer may have violated your rights and you want to file a complaint, call the Department of Labor at 1(866)435-1499 or send an email to dol.misclassified@labor.state.ny.us. All complaints of fraud and violations are taken seriously and you can remain anonymous.

Employer Name:

IA 999 (09/10)

NEW LEGISLATION

Effective February 24, 2008

WORKER NOTIFICATION – A9052 – S6240

This provision is an addition to the existing prevailing wage rate law, Labor Law §220, paragraph a of subdivision 3-a. It requires contractors and subcontractors to provide written notice to all laborers, workers or mechanics of the *prevailing wage rate* for their particular job classification *on each pay stub**. It also requires contractors and subcontractors to *post a notice* at the beginning of the performance of every public work contract *on each job site* that includes the telephone number and address for the Department of Labor and a statement informing laborers, workers or mechanics of their right to contact the Department of Labor if he/she is not receiving the proper prevailing rate of wages and/or supplements for his/her particular job classification. The required notification will be provided with each wage schedule, may be downloaded from our website *www.labor.state.ny.us* or made available upon request by contacting the Bureau of Public Work at 518-457-5589.

* In the event that the required information will not fit on the pay stub, an accompanying sheet or attachment of the information will suffice.

New York State Department of Labor
Bureau of Public Work

Attention Employees

THIS IS A: **PUBLIC WORK PROJECT**

If you are employed on this project as a **worker, laborer, or mechanic** you are entitled to receive the **prevailing wage and supplements rate** for the classification at which you are working.

Chapter 629 of the Labor Laws of 2007:

These wages are set by law and must be posted at the work site. They can also be found at: www.labor.ny.gov

If you feel that you have not received proper wages or benefits, please call our nearest office.*

Albany	(518) 457-2744	Patchogue	(631) 687-4886
Binghamton	(607) 721-8005	Rochester	(585) 258-4505
Buffalo	(716) 847-7159	Syracuse	(315) 428-4056
Garden City	(516) 228-3915	Utica	(315) 793-2314
New York City	(212) 775-3568	White Plains	(914) 997-9507
Newburgh	(845) 568-5398		

* For New York City government agency construction projects, please contact the Office of the NYC Comptroller at (212) 669-4443, or www.comptroller.nyc.gov – click on Bureau of Labor Law.

Contractor Name: _____

Project Location: _____

PW 101 (1.11)

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NEW LEGISLATION

Effective July 18, 2008

OSHA 10-hour Construction Safety and Health Course – S1537-A

This provision is an addition to the existing prevailing wage rate law, Labor Law §220, section 220-h. It requires that on all public work projects of at least $250,000.00, all laborers, workers and mechanics working on the site, be certified as having successfully completed the OSHA 10-hour construction safety and health course. It further requires that the advertised bids and contracts for every public work contract of at least $250,000.00, contain a provision of this requirement.

NOTE: *The OSHA 10 Legislation does not apply to projects advertised for bid prior to July 18, 2008 AND only applies to workers on a public work project that are required under Article 8 to receive the prevailing wage.*

Rules and regulations will be promulgated and posted on the NYSDOL website www.labor.state.ny.us when finalized.

Where to find OSHA 10-hour Construction Course

1. NYS Department of Labor website for scheduled outreach training at:
   www.labor.state.ny.us/workerprotection/safetyhealth/DOSH_ONSITE_CONSULTATION.shtm

2. OSHA Training Institute Education Centers:

   Rochester Institute of Technology OSHA Education Center
   Rochester, NY
   Donna Winter
   Fax (585) 475-6292
   e-mail: dlwtpo@rit.edu
   (866) 385-7470 Ext. 2919
   www.rit.edu/~outreach/course.php3?CourseID=54

   Atlantic OSHA Training Center
   UMDNJ – School of Public Health
   Piscataway, NJ
   Janet Crooks
   Fax (732) 235-9460
   e-mail: crooksje@umdnj.edu
   (732) 235-9455
   https://ophp.umdnj.edu/wconnect/ShowSchedule.awp?~~GROUP~AOTCON~10~

   Keene State College
   Manchester, NH
   Leslie Singleton
   e-mail: lsingletin@keene.edu
   (800) 449-6742
   www.keene.edu/courses/print/courses_osha.cfm

3. List of trainers and training schedules for OSHA outreach training at:
   www.OutreachTrainers.org

Requirements for OSHA 10 Compliance

Chapter 282 of the Laws of 2007, codified as Labor Law 220-h will take effect on July 18, 2008. The statute provides as follows:

The advertised specifications for every contract for public work of $250,000.00 or more must contain a provision requiring that every worker employed in the performance of a public work contract shall be certified as having completed an OSHA 10 safety training course. The clear intent of this provision is to require that all employees of public work contractors receive such training "prior to the performing any work on the project."

The Bureau will enforce the statute as follows:

All contractors and sub contractors must attach a copy of proof of completion of the OSHA 10 course to the first certified payroll submitted to the contracting agency and on each succeeding payroll where any new or additional employee is first listed.

Proof of completion may include but is not limited to:

- copies of bona fide course completion card;
- training roster, attendance record of other documentation from the certified trainer pending the issuance of the card.
- other valid proof

**A certification by the employer attesting that all employees have completed such course is not sufficient proof that the course has been completed.

Any questions regarding this statute may be directed to the New York State Department of Labor, Bureau of Public Work at 518-485-5696.

WICKS Reform 2008

(For all contracts advertised or solicited for bid on or after 7/1/08)

- Raises the threshold for public work projects subject to the Wicks Law requiring separate specifications and bidding for the plumbing, heating and electrical work. The total project's threshold would increase from $50,000 to: $3 million in Bronx, Kings, New York, Queens and Richmond counties; $1.5 million in Nassau, Suffolk and Westchester counties; and $500,000 in all other counties.

- For projects below the monetary threshold, bidders must submit a sealed list naming each subcontractor for the plumbing, HVAC and electrical work and the amount to be paid to each. The list may not be changed unless the public owner finds a legitimate construction need, including a change in specifications or costs or use of a Project Labor Agreement (PLA), and must be open to public inspection.

- Allows the state and local agencies and authorities to waive the Wicks Law and use a PLA if it will provide the best work at the lowest possible price. If a PLA is used, all contractors shall participate in apprentice training programs in the trades of work it employs that have been approved by the Department of Labor (DOL) for not less than three years. They shall also have at least one graduate in the last three years and use affirmative efforts to retain minority apprentices. PLA's would be exempt from Wicks, but deemed to be public work subject to prevailing wage enforcement.

- The Commissioner of Labor shall have the power to enforce separate specification requirements on projects, and may issue stop-bid orders against public owners for non-compliance.

- Other new monetary thresholds, and similar sealed bidding for non-Wicks projects, would apply to certain public authorities including municipal housing authorities, NYC Construction Fund, Yonkers Educational Construction Fund, NYC Municipal Water Finance Authority, Buffalo Municipal Water Finance Authority, Westchester County Health Care Association, Nassau County Health Care Corp., Clifton-Fine Health Care Corp., Erie County Medical Center Corp., NYC Solid Waste Management Facilities, and the Dormitory Authority.

- Reduces from 15 to 7 days the period in which contractors must pay subcontractors.

IMPORTANT INFORMATION

Regarding Use of Form PW30R

"Employer Registration for Use of 4 Day / 10 Hour Work Schedule"

To use the '4 Day / 10 Hour Work Schedule':

There MUST be a *Dispensation of Hours (PW30)* in place on the project

AND

You MUST register your intent to work 4 / 10 hour days, by completing the PW30R Form.

REMEMBER...

The '4 Day / 10 Hour Work Schedule' applies ONLY to Job Classifications and Counties listed on the PW30R Form.

Do not write in any additional Classifications or Counties.

(**Please note** : For each Job Classification check the individual wage schedule for specific details regarding their 4/10 hour day posting.)

Instructions for Completing Form PW30R

"Employer Registration for Use of 4 Day / 10 Hour Work Schedule"

Before completing Form PW30R check to be sure ...

- There is a *Dispensation of Hours* in place on the project.
- The 4 Day / 10 Hour Work Schedule applies to the Job Classifications you will be using.
- The 4 Day / 10 Hour Work Schedule applies to the County / Counties where the work will take place.

Instructions (Type or Print legibly):

Contractor Information:

- Enter the Legal Name of the business, FEIN, Street Address, City, State, Zip Code; the Company's Phone and Fax numbers; and the Company's email address (if applicable)
- Enter the Name of a Contact Person for the Company along with their Phone and Fax numbers, and the personal email address (if applicable)

Project Information:

- Enter the Prevailing Rate Case number (PRC#) assigned to this project
- Enter the Project Name / Type (i.e. Smithtown CSD – Replacement of HS Roof)
- Enter the Exact Location of Project (i.e. Smithtown HS, 143 County Route #2, Smithtown,NY; Bldgs. 1 & 2)
- If you are a Subcontractor, enter the name of the Prime Contractor for which you work
- On the Checklist of Job Classifications -
  - Go to pages 2 and 3 of the form
  - Place a checkmark in the box to the right of the Job Classification you are choosing
  - Mark all Job Classifications that apply

    ****Do not write in any additional Classifications or Counties.****

Requestor Information:

- Enter the name of the person submitting the registration, their title with the company , and the date the registration is filled out

Return Completed Form:

- **Mail** the completed PW30R form (3 pages) to: NYSDOL Bureau of Public Work, SOBC – Bldg.12 – Rm.130, Albany, NY 12240 -***OR*** -
- **Fax** the completed PW30R form (3 pages) to: NYSDOL Bureau of Public Work at (518)485-1870

New York State Department of Labor
Bureau of Public Work
W. Averell Harriman State Office Campus
Building 12 - Room 130
Albany, New York 12240
Phone - (518) 457-5589 Fax - (518) 485-1870

Employer Registration for Use of 4 Day / 10 Hour Work Schedule

Before completing Form PW30R check to be sure ...
There is a *Dispensation of Hours* in place on the project.
The 4 Day / 10 Hour Work Schedule applies to the Job Classifications you will be using.
The 4 Day / 10 Hour Work Schedule applies to the County / Counties where the work will take place.

Please Type or Print the Requested Information

When completed ...
Mail to NYSDOL Bureau of Public Work, SOBC, Bldg. 12, Rm.130, Albany, NY 12240
-or-
Fax to NYSDOL Bureau of Public Work at (518) 485-1870

Contractor Information

Company Name: _____ FEIN: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone Number _____ Fax Number: _____ Email Address: _____

Contact Person: _____

Phone No: _____ Fax No: _____ Email: _____

Project Information

Project PRC#: _____ Project Name/Type: _____

Exact Location of Project: _____ County: _____

(If you are Subcontractor)
Prime Contractor Name: _____

Job Classification(s) to Work 4/10 Schedule: *(Choose all that apply on Job Classification Checklist - Pages 2 & 3)*
**** Do not write in any additional Classifications or Counties****

Requestor Information

Name: _____

Title: _____ Date : _____

Job Classification Checklist

(Place a checkmark by all classifications that will be using the 4/10 schedule)

****** Do not write in any additional Classifications or Counties******

Job Classification	Tag #	Applicable Counties	Check Box
Carpenter - Building	1042	Clinton, Essex, Franklin	☐
Carpenter - Building	370	Albany, Fulton, Greene, Montgomery, Rensselaer, Schenectady, Schoharie	☐
Carpenter - Building	370Z2	Hamilton, Warren, Washington	☐
Carpenter - Building	370Z3	Saratoga	☐
Carpenter - Heavy&Highway	370Saratoga	Saratoga	☐
Carpenter - Heavy&Highway	370/1042H/H	Clinton, Essex, Franklin, Hamilton	☐
Carpenter - Heavy&Highway	370H/H	Albany, Fulton, Montgomery, Rensselaer, Schenectady, Schoharie, Warren, Washington	☐
Carpenter - Building	85	Livingston, Monroe, Ontario, Wayne, Wyoming	☐
Carpenter - Building	281B	Cayuga, Seneca, Yates	☐
Carpenter - Heavy/Highway	281HH	Cayuga, Seneca, Yates	☐
Carpenter - Building/Heavy&Highway	280	Genesee, Niagara, Orleans, Wyoming	☐
Carpenter - Building/Heavy&Highway	9	Erie, Cattaraugus	☐
Carpenter - Heavy&Highway	66h	Allegany, Chautauqua, Cattaraugus	☐
Carpenter - Building	66	Allegany, Chautauqua, Cattaraugus	☐
Carpenter - Building	277 CST	Cortland, Schuyler, Tompkins	☐
Carpenter - Building	277 JLS	Jefferson, Lewis, St. Lawrence	☐
Carpenter - Building	277 On	Onondaga	☐
Carpenter - Building	277 Os	Oswego	☐
Carpenter - Heavy/Highway	277h CST	Cortland, Schuyler, Tompkins	☐
Carpenter - Heavy/Highway	277h JLS	Jefferson, Lewis, St. Lawrence	☐
Carpenter - Heavy/Highway	277h On	Onondaga	☐
Carpenter - Heavy/Highway	277h Os	Oswego	☐

Job Classification Checklist

(Place a checkmark by all classifications that will be using the 4/10 schedule)

**** Do not write in any additional Classifications or Counties****

Job Classification	Tag #	Applicable Counties	Check Box
Electrician	25m	Nassau, Suffolk	☐
Electrician	43	Cayuga, Chenango, Cortland, Herkimer, Madison, Oneida, Onondaga, Oswego, Otsego, Tompkins, Wayne	☐
Electrician	840Teledata and 840 Z1	Cayuga, Onondaga, Ontario, Seneca, Wayne, Yates	☐
Electrician	86	Genesee, Livingston, Monroe, Ontario, Orleans, Wayne, Wyoming	☐
Electrician Lineman	1049Line/Gas	Nassau, Suffolk	☐
Electrician Lineman	1249a	Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates	☐
Elevator Constructor	138	Columbia, Delaware, Dutchess, Greene, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester	☐
Elevator Constructor	14	Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Niagara, Orleans, Wyoming	☐
Elevator Constructor	27	Chemung, Livingston, Monroe, Ontario, Schuyler, Seneca, Steuben, Wayne, Yates	☐
Elevator Constructor	35	Albany, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamiliton, Herkimer, Montgomery, Oneida, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington	☐
Elevator Constructor	62.1	Broome, Cayuga, Chenango, Cortland, Delaware, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, St. Lawrence, Tioga, Tompkins	☐
Glazier	677.1	Jefferson, Lewis, Livingston, Monroe, Ontario, Seneca, St. Lawrence, Wayne, Yates	☐
Insulator - Heat & Frost	30-Syracuse	Broome, Cayuga, Chemung, Chenango, Cortland, Herkimer, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Otsego, Schuyler, Seneca, St. Lawrence, Tioga, Tompkins	☐

Job Classification Checklist

(Place a checkmark by all classifications that will be using the 4/10 schedule)

**** Do not write in any additional Classifications or Counties****

Job Classification	Tag #	Applicable Counties	Check Box
Laborers - Residential Deconstruction, Demolition	601	Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Cortland, Delaware, Essex, Franklin, Genesee, Jefferson, Lewis, Livingston, Monroe, Onondaga, Ontario, Orleans, Oswego, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Wayne, Wyoming, Yates	☐
Operating Engineer - Heavy& Highway	832H	Allegany, Chemung, Genesee, Livingston, Monroe, Ontario, Schuyler, Steuben, Wayne, Yates	☐
Painter	178 B	Broome, Chenango, Tioga	☐
Painter	178 E	Chemung, Schuyler, Steuben	☐
Painter	178 O	Delaware, Otsego	☐
Painter	31	Cayuga, Herkimer, Lewis, Madison, Oneida, Onondaga, Ontario, Oswego, Seneca	☐
Painter	38.O	Oswego	☐
Painter	4-Buf,Nia, Olean	Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Livingston, Niagara, Orleans, Steuben, Wyoming	☐
Painter	4-Jamestown	Cattaraugus, Chautauqua	☐
Sheetmetal Worker	46	Livingston, Monroe, Ontario, Seneca, Wayne, Yates	☐
Teamster - Heavy&Highway	294h/h	Albany, Columbia, Fulton, Greene, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington	☐
Teamster - Heavy&Highway	317a.hh	Allegany, Cayuga, Cortland, Seneca, Steuben, Tompkins, Wayne, Yates	☐
Teamster - Heavy&Highway	693.H/H	Broome, Chenango, Delaware, Otsego, Tioga	☐

Introduction to the Prevailing Rate Schedule

Information About Prevailing Rate Schedule

This information is provided to assist you in the interpretation of particular requirements for each classification of worker contained in the attached Schedule of Prevailing Rates.

Classification

It is the duty of the Commissioner of Labor to make the proper classification of workers taking into account whether the work is heavy and highway, building, sewer and water, tunnel work, or residential, and to make a determination of wages and supplements to be paid or provided. It is the responsibility of the public work contractor to use the proper rate. If there is a question on the proper classification to be used, please call the district office located nearest the project. District office locations and phone numbers are listed below.

Prevailing Wage Schedules are issued separately for "General Construction Projects" and "Residential Construction Projects" on a county-by-county basis.

General Construction Rates apply to projects such as: Buildings, Heavy & Highway, and Tunnel and Water & Sewer rates.

Residential Construction Rates generally apply to construction, reconstruction, repair, alteration, or demolition of one family, two family, row housing, or rental type units intended for residential use.

Some rates listed in the Residential Construction Rate Schedule have a very limited applicability listed along with the rate. Rates for occupations or locations not shown on the residential schedule must be obtained from the General Construction Rate Schedule. Please contact the local Bureau of Public Work office before using Residential Rate Schedules, to ensure that the project meets the required criteria.

Paid Holidays

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

Overtime

At a minimum, all work performed on a public work project in excess of eight hours in any one day or more than five days in any workweek is overtime. However, the specific overtime requirements for each trade or occupation on a public work project may differ. Specific overtime requirements for each trade or occupation are contained in the prevailing rate schedules.

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays.

The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Supplemental Benefits

Particular attention should be given to the supplemental benefit requirements. Although in most cases the payment or provision of supplements is for each hour worked, some classifications require the payment or provision of supplements for each hour paid (including paid holidays on which no work is performed) and/or may require supplements to be paid or provided at a premium rate for premium hours worked.

Effective Dates

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. The rate listed is valid until the next effective rate change or until the new annual determination which takes effect on July 1 of each year. All contractors and subcontractors are required to pay the current prevailing rates of wages and supplements. If you have any questions please contact the Bureau of Public Work or visit the New York State Department of Labor website (www.labor.state.ny.us) for current wage rate information.

Apprentice Training Ratios

The following are the allowable ratios of registered Apprentices to Journey-workers.

For example, the ratio 1:1,1:3 indicates the allowable initial ratio is one Apprentice to one Journeyworker. The Journeyworker must be in place on the project before an Apprentice is allowed. Then three additional Journeyworkers are needed before a second Apprentice is allowed. The last ratio repeats indefinitely. Therefore, three more Journeyworkers must be present before a third Apprentice can be hired, and so on.

Please call Apprentice Training Central Office at (518) 457-6820 if you have any questions.

Title (Trade)	Ratio
Boilermaker (Construction)	1:1,1:4
Boilermaker (Shop)	1:1,1:3
Carpenter (Bldg.,H&H, Pile Driver/Dockbuilder)	1:1,1:4
Carpenter (Residential)	1:1,1:3
Electrical (Outside) Lineman	1:1,1:2

Electrician (Inside)	1:1,1:3
Elevator/Escalator Construction & Modernizer	1:1,1:2
Glazier	1:1,1:3
Insulation & Asbestos Worker	1:1,1:3
Iron Worker	1:1,1:4
Laborer	1:1,1:3
Mason	1:1,1:4
Millwright	1:1,1:4
Op Engineer	1:1,1:5
Painter	1:1,1:3
Plumber & Steamfitter	1:1,1:3
Roofer	1:1,1:2
Sheet Metal Worker	1:1,1:3
Sprinkler Fitter	1:1,1:2

If you have any questions concerning the attached schedule or would like additional information, please contact the nearest BUREAU of PUBLIC WORK District Office or write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12240

District Office Locations:	Telephone #	FAX #
Bureau of Public Work - Albany	518-457-2744	518-485-0240
Bureau of Public Work - Binghamton	607-721-8005	607-721-8004
Bureau of Public Work - Buffalo	716-847-7159	716-847-7650
Bureau of Public Work - Garden City	516-228-3915	516-794-3518
Bureau of Public Work - Newburgh	845-568-5287	845-568-5332
Bureau of Public Work - New York City	212-775-3568	212-775-3579
Bureau of Public Work - Patchogue	631-687-4883	631-687-4904
Bureau of Public Work - Rochester	585-258-4505	585-258-4708
Bureau of Public Work - Syracuse	315-428-4056	315-428-4671
Bureau of Public Work - Utica	315-793-2314	315-793-2514
Bureau of Public Work - White Plains	914-997-9507	914-997-9523
Bureau of Public Work - Central Office	518-457-5589	518-485-1870

Essex County General Construction

Asbestos Worker 08/01/2011

JOB DESCRIPTION Asbestos Worker **DISTRICT** 9

ENTIRE COUNTIES
Albany, Clinton, Essex, Franklin, Fulton, Hamilton, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

WAGES
Per hour

	7/01/2011	
Asbestos Worker Removal & hazardous abatement Only	$ 17.50	plus additional $3.00*

Only for the removal of insulation materials from mechanical systems which are not going to be scrapped.

* To be allocated at a later time.

SUPPLEMENTAL BENEFITS
Per hour paid

Journeyman	$ 7.50

OVERTIME PAY
See (B, E, *Q, **T, V) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (2, 4, 6, 25) on HOLIDAY PAGE
*Code Q applies to 4,6,25.
**Code T applies to 2.

9-12a - Removal Only

Boilermaker 08/01/2011

JOB DESCRIPTION Boilermaker **DISTRICT** 1

ENTIRE COUNTIES
Albany, Broome, Chenango, Columbia, Delaware, Essex, Fulton, Greene, Hamilton, Herkimer, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Tioga, Warren, Washington

WAGES
Per hour

	07/01/2011
Boilermaker	$ 30.00

SUPPLEMENTAL BENEFITS
Per hour worked

Journeymen	$ 22.36

OVERTIME PAY
See (*B, **E, Q) on OVERTIME PAGE
*,** DOUBLE TIME AFTER TEN HOURS ON MON.-SAT.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE
Note: When a holiday falls on Sunday, the day observed by the State or Nation shall be observed, and when Christmas Day and New Year's fall on Saturday, Friday will be observed as the holiday.

REGISTERED APPRENTICES
Wages per hour
(1/2) year terms at the following percentage of Journeyman's wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
65%	65%	70%	75%	80%	85%	90%	95%

Supplemental Benefits per hour worked.

All Apprentices get same benefits as Journeyman.

1-197

Carpenter - Building 08/01/2011

JOB DESCRIPTION Carpenter - Building **DISTRICT** 1

ENTIRE COUNTIES
Clinton, Essex, Franklin

WAGES

Per hour:	07/01/2011	06/01/2012 An Additional	06/01/2013 An Additional	06/01/2014 An Additional
Carpenter	$ 23.41	$ 0.88**	$ 1.29**	$ 1.44**
Floor Coverer	23.41	0.88**	1.29**	1.44**
Carpet Layer	23.41	0.88**	1.29**	1.44**
Dry-Wall	23.41	0.88**	1.29**	1.44**
Lather	23.41	0.88**	1.29**	1.44**
Piledriver	23.66	0.88**	1.29**	1.44**
Diver-Wet Day	45.58	0.88**	1.29**	1.44**
Diver -Dry Day	24.41	0.88**	1.29**	1.44**
Diver Tender	24.41	0.88**	1.29**	1.44**

NOTE ADDITIONAL PREMIUMS PAID FOR THE FOLLOWING WORK LISTED BELOW:
- Certified welders shall receive $1.00 per hour over the journeyman's rate of pay when the employee is required to be certified and performs DOT or ABS specified welding work
- When an employee performs work within a contaminated area on a State and/or Federally designated hazardous waste site, and where relevant State and/or Federal regulations require employees to be furnished and use or wear required forms of personal protection, then the employee shall receive his regular hourly rate plus $1.50 per hour.
- Depth pay for Divers:
  0' to 80' no additional fee
  81'to 100' additional $.50 per foot per hour
  101'to 150' additional $1.00 per foot per hour
  151'and deeper additional $1.25 per foot per hour
- Penetration pay for Divers:
  0' to 50' no additional fee
  51' to 100' additional $.75 per foot per hour
  101' and deeper additional $1.00 per foot per hour

(**)To be allocated at a later date

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day.

NOTE - In order to use the '4 Day/10 Hour Work Schedule,' you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30R; additionally, there must be a dispensation of hours in place on the project.

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyman $ 15.67

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: Any holiday which occurs on Sunday shall be observed the following Monday.

REGISTERED APPRENTICES
Wages per hour

One year terms at the following percentage of Journeyman's base wage:

1st	2nd	3rd	4th
50%	60%	70%	80%

Supplemental Benefits per hour worked:

Carpenter	
1st year term	$ 8.25
2nd year term	8.25
3rd year term	10.75
4th year term	10.75

1-1042

Carpenter - Building / Heavy&Highway 08/01/2011

JOB DESCRIPTION Carpenter - Building / Heavy&Highway **DISTRICT** 1

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES
Wages per hour:

	07/01/2011
Carpenter - ONLY for Artificial Turf/Synthetic Sport Surface Installer	$ 26.50

Note - Does not include the operation of equipment. Please see Operating Engineers rates.

SUPPLEMENTAL BENEFITS
Per hour Paid:

	07/01/2011
Journeyman	$ 18.00

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (2, 17) on HOLIDAY PAGE
Overtime: See (6, 16, 27) on HOLIDAY PAGE
Note: When a holiday falls upon a Saturday, it shall be observed on the preceding Friday. Whan a holiday falls upon a Sunday, it shall be observed on the following Monday.

REGISTERED APPRENTICES
Wages per hour:

One year terms at the following percentage of Journeyman's wage:

1st	2nd	3rd	4th
50%	60%	70%	80%

Supplemental Benefits per hour paid:

	07/01/2011
Carpenter	
1st year term	$ 9.00
2nd year term	14.40
3rd year term	15.30
4th year term	16.20

1-42AtSS

Carpenter - Heavy&Highway 08/01/2011

JOB DESCRIPTION Carpenter - Heavy&Highway **DISTRICT** 1

ENTIRE COUNTIES
Clinton, Essex, Franklin, Hamilton

WAGES
Per hour:

	07/01/2011
Carpenter	$ 27.65
Millwright	29.15
Piledriver	27.65

Diver-Wet Day	43.95
Diver-Dry Day	28.65
Diver-Tender	28.65

State or Federal designated hazardous site, requiring propectivegear shall be an additional $1.50 per hour.
Certified welders when required to perform welding work will receive an additional $1.50 per hour.

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Friday, provided the project duration is more than forty (40) hours.

NOTE - In order to use the '4 Day/10 Hour Work Schedule,' you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30R; additionally, there must be a dispensation of hours in place on the project.

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyman	$ 16.05

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (2, 17) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
In the event a Holiday falls on a Saturday, the Friday before will be observed as a Holiday. If a Holiday falls on a Sunday, then Monday will be observed as a Holiday.

REGISTERED APPRENTICES
Wages per hour:

One year terms at the following percentage of Journeyman's base wage

1st	2nd	3rd	4th
50%	60%	70%	80%

Supplemental Benefits per hour worked:

1st year terms	$ 7.46
2nd year terms	12.01
3rd year terms	16.05
4th year terms	16.05

1-370/1042H/H

Electrician 08/01/2011

JOB DESCRIPTION Electrician **DISTRICT** 6

ENTIRE COUNTIES
Clinton, Essex, Franklin, Jefferson, Lewis, St. Lawrence

WAGES
Per hour:

	07/01/2011
Electrician	$ 31.00
Cable Splicer	32.50
Tunnel worker/welder	32.50

NOTE:

A) Shift Work: The following rates will apply on all Contracting Agency mandated shifts worked between the hours listed below. The employer may be permitted to adjust the starting hours of the shift by up to two (2) hours if required by the agency. If a shift begins outside of the stated shift hours, the rate paid would be determined by what shift period the majority of the hours were worked.

1st shift	8:00 AM to 4:30 PM	Regular wage rate
2nd shift	4:30 PM to 1:00 AM	Regular wage rate plus 17.3%
3rd shift	12:30 AM to 9:00 AM	Regular wage rate plus 31.4%

B) Additional $1.50 per hour for all underground and tunnel work working 35 feet or more on scaffolds, ladders, towers, steeples, structural steel, or over

65 feet from mechanical lifts.

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyman	$ 15.65 *plus 3% of gross wage

* NOTE: THE 3% IS BASED ON THE HOURLY WAGE PAID ON STRAIGHT TIME RATE OR PREMIUM TIME RATE.

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
(Hourly) terms at the following percentage of journeyman's wage.

	1-1000 40%	to 2000 45%	to 3500 50%	to 5000 60%	to 6500 70%	to 8000 80%
07/01/2011	$ 12.40	$ 13.95	$ 15.50	$ 18.60	$ 21.70	$ 24.80
Tunnel apprentices 07/01/2011	$ 13.90	$ 15.45	$ 17.00	$ 20.10	$ 23.20	$ 26.30

Supplemental Benefits per hour worked:

Appr 1st & 2nd term	$ 6.94 * plus 3% of gross wage
Appr All other terms	$ 15.65 * plus 3% of gross wage paid.

* NOTE: THE 3% IS BASED ON THE HOURLY WAGE PAID ON STRAIGHT TIME RATE OR PREMIUM TIME RATE.

6-910

Elevator Constructor 08/01/2011

JOB DESCRIPTION Elevator Constructor **DISTRICT** 1

ENTIRE COUNTIES
Albany, Clinton, Essex, Fulton, Hamilton, Herkimer, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

WAGES
Per hour

	07/01/2011	01/01/2012 An Additional
Mechanic	$ 38.94	$ 3.00**
Helper	70% of Mechanic Wage Rate	

(**)To be allocated at a later date

**** IMPORTANT NOTICE - EFFECTIVE 04/01/2009 ****
Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday.

NOTE - In order to use the '4 Day/10 Hour Work Schedule,' you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30R; additionally, there must be a dispensation of hours in place on the project.

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman/Helper	$ 21.785*

*Plus 6% of wages if less than 5 years service
*Plus 8% of wages if more than 5 years service

OVERTIME PAY
See (D, O) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 15, 16) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE
Note: When a paid holiday falls on Saturday, it shall be observed on Friday. When a paid holiday falls on Sunday, it shall be observed on Monday.

REGISTERED APPRENTICES
Wages per hour

1st 6mo	2nd 6mo	2nd yr	3rd yr	4th yr
50 %	55 %	65 %	70 %	80 %

Supplemental Benefits per hour worked

Apprentices $ 21.785 +6% of wage

1-35

Glazier 08/01/2011

JOB DESCRIPTION Glazier **DISTRICT** 1

ENTIRE COUNTIES
Albany, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

WAGES
Per hour

	07/01/2011	05/01/2012 An Additional	05/01/2013 An Additional
Glazier base wage	$ 23.60	$1.50**	$1.50**

+ additional $1.50 per hour for all hours worked

*High Work Base Wage 27.65
+ additional $3.30 per hour for all hours worked

(*)When working on Swing Stage or Lift 100 feet or more in height, measured from the ground level up.
(**)To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman $ 13.98
Journeyman High Work 19.18

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE
Premium is applied to the respective base wage only.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: If any of the holidays are designated by federal law to be celebrated on a day other than that on which they regularly fall, then the holiday shall be celebrated on the day set by said federal law as if the day on which the holiday is celebrated was actually the holiday date.

REGISTERED APPRENTICES
Wages per hour

Apprentice Glazier One Half Year (900 hr) terms at the following percentage of Journeyman's base wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
35%	45%	55%	65%	75%	85%	90%	95%

+ additional $1.50 per hour for all hours worked for all terms

Apprentice Glazier Hi-Work One Half Year (900 hr) terms at the following percentage of Journeyman's Hi-Work base wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
35%	45%	55%	65%	75%	85%	90%	95%

+ additional $3.30 per hour for all hours worked for all terms

Supplemental Benefits per hour worked

For apprentices indentured after 07/01/2009 the following supplemental benefit applies:

Apprentice	
1st-4th term	$12.63
5th-8th term	13.98
Apprentice High Work	
1st-4th term	$ 14.78
5th-8th term	19.18

For apprentices indentured prior to and including 07/01/2009, the following supplemental benefit applies:

Apprentice	$ 13.98
Apprentice High Work	19.18

1-201

Insulator - Heat & Frost 08/01/2011

JOB DESCRIPTION Insulator - Heat & Frost **DISTRICT** 1

ENTIRE COUNTIES
Albany, Columbia, Delaware, Essex, Fulton, Greene, Hamilton, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Sullivan, Ulster, Warren, Washington

WAGES

Wages per hour	07/01/2011	05/01/2012 An Additional
Asbestos Worker*	$ 28.83	$ 1.50**
Insulator*	28.83	1.50**
Firestopping Worker*	24.51	1.50**

(*)On Mechanical Systems only.
(**)To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman $ 18.26

OVERTIME PAY
See (*B1, **Q) on OVERTIME PAGE
*B1=Double time begins after 10 hours on Saturday
**Q=Triple time on Labor Day if worked.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
When a holiday falls on Sunday the following Monday shall be observed as the holiday.

REGISTERED APPRENTICES
Wages per hour

one year terms at the following percentage of Journeyman's wage.

1st	2nd	3rd	4th
60 %	70 %	80 %	90 %

Supplemental Benefits per hour worked:

Apprentices $ 18.26

1-40

Ironworker 08/01/2011

JOB DESCRIPTION Ironworker **DISTRICT** 1

ENTIRE COUNTIES
Albany, Clinton, Columbia, Delaware, Essex, Greene, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

PARTIAL COUNTIES
Fulton: Only the Townships of Broadalbin, Mayfield, Northampton,Bleecker and Johnstown.
Hamilton: Only the Townships of Hope, Benson and Wells.
Montgomery: Only the Townships of Florida, Amsterdam, Charleston,Glen, Mohawk and Root.
Otsego: Only the Towns of Unadilla, Butternut,Morris, Otego,Oneonta, Laurens, Millford, Maryland and Worchester.

WAGES

Per hour	07/01/2011
Ornamental	$ 27.65
Reinforcing	27.65
Rodman	27.65
Sheeter Bucker-up	27.90
Structural & Precast	27.65
Mover/Rigger	27.65
Fence Erector	27.65
Stone Derrickman	27.65
Sheeter	27.90
Curtain Wall Installer	27.65
Metal Window Installer	27.65

SUPPLEMENTAL BENEFITS
Per hour worked

JOURNEYMAN	$ 22.46

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: Any holiday which occurs on Sunday shall be observed the following Monday.

REGISTERED APPRENTICES
Wages per hour
ONE YEAR TERMS AT THE FOLLOWING WAGE RATES:

	07/01/2011
1st yr	$ 16.00
2nd yr	18.00
3rd yr	20.00
4th yr	22.00

Supplemental Benefits per hour worked	
1st year	$ 8.50
2nd year	16.83
3rd year	18.02
4th year	19.18

1-12

Laborer - Building 08/01/2011

JOB DESCRIPTION Laborer - Building **DISTRICT** 1

ENTIRE COUNTIES
Clinton, Essex, Warren

WAGES
GROUP #A:
Basic Rate, Multi Trade Tender, Pipe Layer (water, sewer & etc), Self-propelled equipment operator

GROUP #B:
Demolition and wrecking, Concrete or plaster pump.

GROUP #C:

Sandblaster on construction clean-up, Drilling equipment only where a separate air compressor unit supplies power, Metal formsetter (sidewalk) and Curb Setter, Asphalt Raker, and Tail/Screwman on paving machine.

GROUP #D:
Acetylene Burner on demolition and cutting of Pipe

GROUP #E:
Blaster

GROUP #F:
Workers in kilns, tanks, boilers etc., Asbestos & Hazardous Waste Work.

WAGES per hour

	07/01/2011	07/01/2012 An Additional
Group # A	$ 19.78	$ 0.95*
Group # B	19.93	
Group # C	20.08	
Group # D	20.23	
Group # E	20.28	
Group # F	20.78	

*To be allocated at a later date.

SUPPLEMENTAL BENEFITS
Per hour worked

Journeymen $ 15.67

OVERTIME PAY
See (B, E, *E2, Q) on OVERTIME PAGE
*Inclement weather makeup day may be provided November 15 to May 15.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour

Terms are at the following percentage of Group Rate A.

0-1,333 Hrs	1,334-2,666 Hrs	2,667-4,000 Hrs
70%	80%	90%

Supplemental Benefits per hour worked

Apprentices $ 15.67

1-186ew

Laborer - Heavy&Highway 08/01/2011

JOB DESCRIPTION Laborer - Heavy&Highway **DISTRICT** 1

ENTIRE COUNTIES
Clinton, Essex, Warren

WAGES
GROUP # A:
Basic Rate, Drill Helper, Flagman, Outboard and Hand Boats.

GROUP # B:
Chain Saw, Concrete Aggregate Bin, Concrete Bootman, Gin Buggy, Hand or Machine Vibrator, Jack Hammer, Mason Tender, Mortar Mixer, Pavement Breaker, Handlers of Steelmesh, Small Generators for Laborers' Tools, Installation of Bridge Drainage Pipe, Pipe Layers, Vibrator Type Rollers, Tamper, Drill Doctor, Water Pump Operator (1-1/2" and Single Diaphragm) Nozzle (Asphalt, Gunite, Seeding, and Sand Blasting) , Laborers on Chain Link Fence, Rock Splitter and Power Unit, Pusher Type Concrete Saw and all other Gas, Electric, Oil and Air Tool Operators, Wrecking Laborer.

GROUP # C:
Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power, Acetylene Torch Operators, Asphalt Raker, Powderman, Tail or Screw Operator on Asphalt Paver.

GROUP # D:
Blasters, Metal Form Setters (sidewalk), Stone or Granite Curb Setters.

GROUP # E:
Hazardous waste, Lead & Abestos abatement.

WAGES per hour	07/01/2011	07/01/2012 An Additional
Group # A	$ 22.94	$ 1.35*
Group # B	23.14	
Group # C	23.34	
Group # D	23.54	
Group # E	24.94	

All employees who work a single irregular shift starting between 5:00 pm and 1:00 am on governmental mandated night work shall be paid an additional $1.75 per hour.
(*)To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour worked

Journeymen $ 16.33

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: If a holiday falls on Sunday, it will be celebrated on Monday. In the event that men work on this Sunday holiday, they shall be paid double time. In the event that men work on Monday, they shall be compensated at double time plus the holiday pay. Accordingly, the Monday following the Sunday is treated as the holiday.

REGISTERED APPRENTICES
Wages per hour

Terms are at the following percentage of Group A rate.

0-1333 Hrs	1334-2666 Hrs	2667-4000 Hrs
70%	80%	90%

Supplements per hour worked
Apprentices $ 16.33

1-186/2h

Lineman Electrician 08/01/2011

JOB DESCRIPTION Lineman Electrician **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES
Per hour:

NOTE: Includes Teledata Work within Ten feet of High Voltage Transmission Lines

Below rates applicable on all Overhead and Underground Transmission line work & Fiber Optic Cable where other construction trades are or have been involved. This applies to transmission line work only, not other construction.

	07/01/2011	05/07/2012
Lineman/Tech./Welder	$ 44.52	$45.23
Cable splicer	44.52	45.23
Digging Machine Operator	40.07	40.71

Tractor Trailer Driver	37.84	38.45
Groundman/Truck Driver	35.62	36.18
Mechanic 1st Class	35.62	36.18
Flagman	26.71	27.14

Additional 1.00 per hr.for entire crew when a helicopter is used.

Below rates apply on Switching Structures, Maintenance projects, Railroad Catenary install/maint, Third rail installation, Bonding of Rails and pipe type cable and installation of Fiber Optic Cable.

Lineman/Technician/Welder	$ 43.31	$ 44.01
Digging Machine Operator	38.98	39.61
Tractor Trailer Driver	36.81	37.41
Groundman/Truck Driver	34.65	35.21
Mech. 1st Class	34.65	35.21
Flagman	25.99	26.41
Certified WelderPipe Type Cable	45.48	46.21
Cable Splicer pipe type cable	47.64	48.41

Additional 1.00 per hour for entire crew when a helicopter job.

Below rates applicable on all overhead and underground distribution and maintenance work, and all overhead and underground transmission line work and the installation of Fiber Optic Cable where no other construction trades are or have been involved.

Lineman /Techician	$ 42.02	$ 42.72
Welder/Cable Splicer	42.02	42.72
Digging Machine Operator	37.82	38.45
Tractor Trailer Driver	35.72	36.31
Groundman/Truck Driver	33.62	34.18
Mechanic 1st Class	33.62	34.18
Flagman	25.21	25.63

Additional 1.00 per.hr.for entire crew when a helicopter is used.

Below rates applicable on all electrical sub-stations, switching structures, fiber optic cable and all other work not defined as "Utility outside electrical work"

Lineman/Technician	$ 42.02	$ 42.72
Cable Splicer pipe type cable	46.22	46.99
Certified Welder pipe type	44.12	44.86
Digging Machine Operator	37.82	38.45
Tractor Trailer Driver	35.72	36.31
Mechanic 1st Class	33.62	34.18
Groundman/Truck Driver	33.62	34.18
Flagman	25.21	25.63

Additional $ 1.00 per hour for entire crew when a helicopter is used.

** IMPORTANT NOTICE - EFFECTIVE 04/01/2009 **
Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day.

NOTE - In order to use the '4 Day/10 Hour Work Schedule,' you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30R; additionally, there must be a dispensation of hours in place on the project.

SUPPLEMENTAL BENEFITS
Per hour worked including holidays listed below:

The following SUPPLEMENTAL benefits apply to all classification categories of CONSTRUCTION, TRANSMISSION and DISTRIBUTION.

$ 16.50 *plus 7% of hourly wage paid	$ 18.25 *plus 7% of hourly wage paid

OVERTIME PAY

See (B, E, Q,) on OVERTIME PAGE. Double time for all emergency work designated by the Dept. of Jurisdiction.

NOTE: THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED SHIFTS OF AT LEAST FIVE (5) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1st shift	8:00 AM to 4:30 PM REGULAR RATE
2nd shift	4:30 PM to 1:00 AM REGULAR RATE PLUS 17.3 %
3rd shift	12:30 AM to 9:00 AM REGULAR RATE PLUS 31.4 %

HOLIDAY

Paid	See (5, 6, 8, 13, 25) on HOLIDAY PAGE plus Gov. of NYS Election Day.
Overtime	See (5, 6, 8, 13, 25) on HOLIDAY PAGE plus Gov. of NYS Election Day.

SUPPLEMENTS for holidays paid at straight time

REGISTERED APPRENTICES

(1000) hr terms at the following percentage of Journeyman's wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked:

The following SUPPLEMENTAL benefits apply to all classification categories of CONSTRUCTION, TRANSMISSION and DISTRIBUTION.

$ 16.50	$ 18.25
*plus 7% of	*plus 7% of
hourly wage paid	hourly wage paid

*NOTE: The 7% is based on the hourly wage paid, straight time rate or premium rate.

6-1249a

Lineman Electrician - Teledata 08/01/2011

JOB DESCRIPTION Lineman Electrician - Teledata **DISTRICT** 6

ENTIRE COUNTIES

Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

Per hour:

FOR WORK OUTSIDE BUILDING PROPERTY LINES.

	07/01/2011
Cable Splicer	$ 27.44
Installer/Repairman	26.05
Teledata Lineman	26.05
Technician/Equip Oper	26.05
Groundman	13.81

NOTE: EXCLUDES Teledata work within ten feet of High Voltage (600 volts and over) transmission lines. For this work please see LINEMAN.

SUPPLEMENTAL BENEFITS

Per hour worked:

$ 4.43
*plus 3% of hourly
wage paid

*NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

OVERTIME PAY

See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16) on HOLIDAY PAGE

6-1249LT - Teledata

Lineman Electrician - Traffic Signal Lighting 08/01/2011

JOB DESCRIPTION Lineman Electrician - Traffic Signal Lighting **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Warren, Washington, Wayne, Wyoming, Yates

WAGES
Per hour:

	07/01/2011	05/07/2012
Lineman/Technician	$38.02	$38.25
Certified Welder	39.92	40.16
Digging Mach	34.22	34.43
Tractor trailer driver	32.32	32.51
Groundman Truck Driver	30.42	30.60
Mechanic 1st Class	30.42	30.60
Flagman	22.81	22.95

Above rates applicable on all Lighting and Traffic Signal Systems with the installation, testing, operation, maintenance and repair of all traffic control and illumination projects, traffic monitoring systems, road weather information systems and the installation of Fiber Optic Cable.

SUPPLEMENTAL BENEFITS
Per hour worked:

All classifications	$ 16.50 *plus 6.5% of hourly wage paid	$18.25 *plus 6.5% of hourly wage paid

NOTE: Additional $1.00 per hr. for entire crew when a helicopter is used.
*NOTE: The 6.5% is based on the hourly wage paid, straight time rate or premium rate.

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE
NOTE: DOUBLE TIME FOR ALL EMERGENCY WORK DESIGNATED BY THE DEPT. OF JURISDICTION.

NOTE: THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED SHIFTS OF AT LEAST FIVE (5) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM TO 4:30 PM	REGULAR RATE
2ND SHIFT	4:30 PM TO 1:00 AM	REGULAR RATE PLUS 17.3%
3RD SHIFT	12:30 AM TO 9:00 AM	REGULAR RATE PLUS 31.4%

HOLIDAY
Paid See (5, 6, 8, 13, 25) on HOLIDAY PAGE plus Gov of NYS Election Day.
Overtime See (5, 6, 8, 13, 25) on HOLIDAY PAGE plus Gov of NYS Election Day.

REGISTERED APPRENTICES
WAGES: (1000) hour terms at the following percentage of Journeymans Wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS: Same as Journeyman/Technician.

6-1249a-LT

Lineman Electrician - Tree Trimmer 08/01/2011

JOB DESCRIPTION Lineman Electrician - Tree Trimmer **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES
Per hour:

Applies to line clearance, tree work and right-of-way preparation on all new or existing energized overhead or underground electrical, telephone and CATV lines. This also would include stump removal near underground energized electrical lines, including telephone and CATV lines.

	07/01/2011	01/01/2012
Tree trimmer	$ 21.64	$ 22.08
Equip Operator	19.09	19.48
Mechanic	19.09	19.48
Truck Driver	16.14	16.46
Ground person	13.25	13.51
Flag person	9.44	9.62

SUPPLEMENTAL BENEFITS
Per hour worked:

	$ 7.36 *plus 3% of hourly wage paid	$ 7.88 *plus 3% of hourly wage paid

Supplements paid at STRAIGHT TIME rate for holidays.

*NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE

6-1249TT

Mason - Building 08/01/2011

JOB DESCRIPTION Mason - Building **DISTRICT** 1

ENTIRE COUNTIES
Clinton, Essex, Franklin

PARTIAL COUNTIES
Warren: Only the Townships of Chester, Hague, Horicon and Johnsburg.

WAGES
Per hour

	07/01/2011	05/01/2012 An Additional
Bricklayer	$ 26.27	$ 1.80**
Cement Finish	26.27	1.80**
Plasterer/Fireproofer*	26.27	1.80**
Pointer/Caulker/Cleaner	26.27	1.80**
Stone Mason	26.27	1.80**
Acid Brick	26.77	1.80**

(*)Fireproofer on Structural only.
(**)To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman $ 16.06

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: Any holiday which occurs on Sunday shall be observed the following Monday.

REGISTERED APPRENTICES
Wages per hour

750 hr terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
55%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked

0-500 Hours	$ 9.81
All others	16.06

1-2b.8

Mason - Building 08/01/2011

JOB DESCRIPTION Mason - Building **DISTRICT** 1

ENTIRE COUNTIES
Albany, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

WAGES
Per hour 07/01/2011

Tile/Marble/Terazzo

Setter	$ 28.53
Finisher	22.59

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman Setter	$ 16.63
Journeyman Finisher	13.93

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour

Hour Terms at the following percentage of Journeyman's wage

Setter:	
1st term 0-500 hours	60%
2nd term 501-1500 hours	70%
3rd term 1501-2500 hours	80%
4th term 2501-3500 hours	85%
5th term 3501-4500 hours	90%
6th term 4501-6000 hours	95%
Finisher:	
1st term 0-500 hours	70%
2nd term 501-1500 hours	80%
3rd term 1501-2500 hours	90%
4th term 2501-3700 hours	95%

Supplemental Benefits per hour worked

Setter:	
1st term 0-500 hours	$ 9.78
2nd term 501-1500 hours	9.78
3rd term 1501-2500 hours	13.205
4th term 2501-3500 hours	13.205
5th term 3501-4500 hours	14.918
6th term 4501-6000 hours	16.63

Finisher:	
1st term 0-500 hours	$ 9.28
2nd term 501-1500 hours	9.28
3rd term 1501-2500 hours	11.605
4th term 2501-3700 hours	11.605

1-2TS.1

Mason - Heavy&Highway 08/01/2011

JOB DESCRIPTION Mason - Heavy&Highway **DISTRICT** 1

ENTIRE COUNTIES
Albany, Cayuga, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Madison, Montgomery, Oneida, Oswego, Rensselaer, Saratoga, Schenectady, Schoharie, St. Lawrence, Warren, Washington

PARTIAL COUNTIES
Onondaga: For Heavy & Highway Cement Mason or Plaster Work in Onondaga County, refer to Mason-Heavy&Highway tag 1-2h/h on.

WAGES
Per hour

	07/01/2011	07/01/2012 An Additional
Mason & Bricklayer	$ 30.72	$ 2.00**

Additional $1.00 per hour for work on any swing scaffold or staging suspended by means of ropes or cables.

(**)To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman $ 16.34

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: If a holiday falls on Sunday, the Monday following shall constitute the day of the legal holiday.

REGISTERED APPRENTICES
Wages per hour

750 HR TERMS at the following percent of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th
55%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked

0-500 Hours	$ 9.74
All others	16.34

1-2hh.1

Millwright 08/01/2011

JOB DESCRIPTION Millwright **DISTRICT** 1

ENTIRE COUNTIES
Clinton, Essex, Franklin

WAGES
Per hour: 07/01/2011

Millwright $ 25.06

(*) WELDER/HAZMAT - A Certified Welder shall received $ 1.25 per hour in addition to the current journeyman's rate provided he/she is directed to perform certified welding. If a work site has been declared a hazardous site by the Owner and the use of protective gear (including, as a minimum, air purifying canister-type chemical respirators) are required, then that Employee shall receive a $ 1.25 premium per hour.

SUPPLEMENTAL BENEFITS
Supplement Benefits per hour worked:

Journeyman Millwright	$ 16.34

OVERTIME PAY
See (B, E, *E2, Q) on OVERTIME PAGE
*Saturday may be used as a make-up day and worked at the straight time rate of pay during a work week when conditions such as weather, power failure, fire or natural disaster prevent the performance of work on a regularly scheduled work day. If a make-up day is utilized, a minimun of eight hours must be scheduled.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: Any holiday that falls on Sunday shall be observed the following Monday. Any holiday that falls on Saturday shall be observed the preceding Friday.

REGISTERED APPRENTICES
Wages per hour:

1 year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th
60%	70%	80%	90%

Supplemental Benefits per hour worked:

Millwrights	
1st Year Term	$ 7.59
2nd Year Term	13.715
3rd Year Term	14.59
4th Year Term	15.465

1-1163b

Operating Engineer - Building 08/01/2011

JOB DESCRIPTION Operating Engineer - Building **DISTRICT** 1

ENTIRE COUNTIES
Albany, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

PARTIAL COUNTIES
Dutchess: Defined as north of the northern boundary line of City of Poughkeepsie then due east to Route 115 to Bedelt Road then east along Bedelt Road to VanWagner Road then north along VanWagner Road to Bower Road then east along Bower Road to Rte. 44 east to Route 343 then along Route 343 east to the northern boundary of Town of Dover Plains and east along the northern boundary of Town of Dover Plains to Connecticut.

WAGES
CLASS A1:
Crane, hydraulic cranes, tower crane, locomotive crane, piledriver, cableway, derricks,whirlies, dragline, boom trucks over 5 tons.

CLASS A:
Shovel, all Excavators (including rubber tire full swing), Gradalls, power road grader, all CMI equipment, front-end rubber tire loader, tractor-mounted drill (quarry master), mucking machine, concrete central mix plant, concrete pump, belcrete system, automated asphalt concrete plant, and tractor road paver, boom trucks 5 tons and under, maintenance engineer, self-contained crawler drill-hydraulic rock drill.

CLASS B:
Backhoes (rubber tired backhoe/loader combination), bulldozer, pushcat, tractor, traxcavator, scraper, LeTourneau grader, form fine grader, self-propelled soil compactor (fill roller), asphalt roller, blacktop spreader, power brooms, sweepers, trenching machine, Barber Green loader, side booms, hydro hammer, concrete spreader, concrete finishing machine, one drum hoist, power hoisting (single drum), hoist two drum or more, three drum engine, power hoisting (two drum and over), two drum and swinging engine, three drum swinging engine, hod hoist, A-L frame winches, core and well drillers (one drum), post hole digger, model CHB Vibro-Tamp or similar machine, batch bin and plant operator, dinky locomotive, skid steer loader, track excavator 5/8 cubic yard or smaller, front end rubber tired loader under four cubic yards, vac truck.

CLASS C:
Fork lift, high lift, all terrain fork lift: or similar, oiler, fireman and heavy-duty greaser, boilers and steam generators, pump, vibrator, motor mixer, air compressor, dust collector, welding machine, well point, mechanical heater, generators, temporary light plants, electric submersible pumps 4" and over, murphy type diesel generator, conveyor, elevators, concrete mixer, beltcrete power pack (belcrete system), seeding, and mulching machines, pumps.

* In the event that equipment listed above is operated by robotic control, the classification covering the operation will be the same as if manually operated.

WAGES per hour

	07/01/2011
Class # A1	$ 33.85
Class # A	33.41
Class # B	32.50
Class # C	29.93

Additional $0.50 per hr for Tower Cranes.
Additional $0.50 per hr for Cranes with Boom length & jib 150ft. and over.
Additional $1.00 per hr for Cranes with Boom length & jib 200ft. and over.
Additional $2.00 per hr over B rate for Nuclear Leader work.
Additional $0.40 per hr for tunnel or excavation of shaft 40' or more deep.
Additional $2.50 per hr. for hazardous waste removal work on State and/or Federally designated waste site which require employees to wear Level C or above forms of personal protection

SUPPLEMENTAL BENEFITS
Per hour paid

Journeyman $ 21.62

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: If a holiday falls on Sunday, it will be celebrated on Monday. If the holiday falls on Saturday, it will be celebrated on Friday. Employees who work a Saturday holiday shall be paid double time plus the holiday pay.

REGISTERED APPRENTICES
Wages per hour

1000 hours terms at the following percentage of Journeyman's wage Class B

1st	2nd	3rd	4th
60%	70%	80%	90%

Supplemental Benefits per hour paid

All terms $ 17.05

1-106b

Operating Engineer - Heavy&Highway 08/01/2011

JOB DESCRIPTION Operating Engineer - Heavy&Highway **DISTRICT** 1

ENTIRE COUNTIES
Albany, Broome, Chenango, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Montgomery, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Tioga, Warren, Washington

PARTIAL COUNTIES
Dutchess: Defined as north of the northern boundary line of City of Poughkeepsie then due east to Route 115 to Bedelt Road then east along Bedelt Road to VanWagner Road then north along VanWagner Road to Bower Road then east along Bower Road to Rte. 44 east to Route 343 then along Route 343 east to the northern boundary of Town of Dover Plains and east along the northern boundary of Town of Dover Plains to Connecticut.
Herkimer: East of a North/South line through the RailroadStation at Little Falls.

WAGES
MASTER MECHANIC

CLASSIFICATION 1A:
Boom Truck (over 5 tons, manufacturers rating), Crane, Cherry Picker (over 5 tons capacity), Derricks (steel erection), Dragline, Overhead Crane (Gantry or Straddle type), Pile Driver, Truck Crane

CLASSIFICATION A:

Automated Concrete Spreader (CMI Type), Automatic Fine Grader, Backhoe (Except Tractor Mounted. Rubber Tired), Backhoe Excavator Full Swing (CAT 212 or similar type), Back Filling Machine, Belt Placer (CM1 Type), Blacktop Plant (Automated), Boom truck (5 tons and under), Cableway, Caisson Auger, Central Mix Concrete Plant (Automated), Concrete Curb Machine (Self-Propelled, Slipform), Concrete Pump, Directional Drilling Machine, Dredge, Dual Drum Paver, Excavator (All Purpose Hydraulically Operated, Gradall or Similar), Front End Loader (4 cu. yd. and Over), Head Tower (Sauerman or Equal), Hoist (Two or Three Drum), Holland Loader, Maintenance Engineer, Mine Hoist, Mucking Machine or Mole, Pavement Breaker (SP Wertgen; PB-4 and similar type), Power Grader, Profiler (over 105 H.P.), Quad 9, Quarry Master (or equivalent), Scraper, Shovel, Side Boom, Slip Form Paver (If a second man is needed, he shall be an Oiler), Tractor Drawn Belt-Type Loader, Truck or Trailer Mounted Log Chipper (Self Feeder), Tug Operator (Manned Rented Equipment Excluded), Tunnel Shovel

CLASSIFICATION B:
Asphalt Paver, Backhoe (Tractor Mounted, Rubber Tired), Bituminous Recycler Machine, Bituminous Spreader and Mixer, Blacktop Plant (Non-Automated), Blast or Rotary Drill (Truck or Tractor Mounted), Boring Machine, Cage Hoist, Central Mix Plant (Non-Automated) and All Concrete Batching Plants, Cherry Picker (5 tons capacity and under), Concrete Paver (Over 16S), Crawler Drill (Self-contained), Crusher, Diesel Power Unit, Drill Rigs (Tractor Mounted), Front End Loader (Under 4 cu. yd.), Greaseman/Lubrication Engineer, Hi-Pressure Boiler (15 lbs. and over), Hoist (One Drum), Hydro-Axe, Kolman Plant Loader and Similar Type Loaders (If Employer requires another man to clean the screen or to maintain the equipment, he shall be an Oiler), L.C.M. Work Boat Operator, Locomotive, Mixer (for stabilized base self-propelled), Monorail Machine, Plant Engineer, Profiler (105 H.P. and under), Pug Mill, Pump Crete, Ready Mix Concrete Plant, Refrigeration Equipment (for soil stabilization), Road Widener, Roller (all above sub-grade), Sea Mule, Self-contained Ride-on Rock Drill (Excluding Air-Track Type Drill), Skidder, Tractor with Dozer and/or Pusher, Trencher, Tugger Hoist, Vermeer saw (ride on, any size or type),Welder, Winch, Winch Cat

CLASSIFICATION C:
A Frame Winch Hoist on Truck, Aggregate Plant, Ballast Regulator (Ride-on), Boiler (used in conjunction with production), Bituminous Heater (self-propelled), Cement and Bin Operator, Hands-Off Equipment (Compressors, Dust Collectors, Generators, Pumps, Welding Machines, Light Plants, Heaters), Concrete Pavement Spreader and Finisher, Concrete Paver or Mixer (16S and under), Concrete Saw (self-propelled), Conveyor, Directional Drill Machine Locator, Drill (Core), Drill (Well), Farm Tractor with accessories, Fine Grade Machine, Fireman, Fork Lift, Form Tamper, Grout Pump, Gunite Machine, Hammers (Hydraulic self-propelled), Hydra-Spiker (Ride-on), Hydraulic Pump (jacking system), Hydro-Blaster (Water), Mulching Machine, Oiler, Parapet Concrete or Pavement Grinder, Post Hole Digger and Post Driver, Power Broom (towed), Power Heaterman, Power Sweeper, Revinius Widener, Roller (Grade and Fill), Scarifier (Ride-on), Shell Winder, Skid steer loader (Bobcat or similar), Span-Saw (Ride-on), Steam Cleaner, Tamper (Ride-on), Tie Extractor (Ride-on), Tie Handler (Ride-on), Tie Inserter (Ride-on), Tie Spacer (Ride-on), Tire Repair, Track Liner (Ride-on), Tractor Tractor (with towed accessories), Vac Truck, Vibratory Compactor, Vibro Tamp, Well Point

*Note for all above classifications of Operating Engineer - In the event that equipment listed above is operated by robotic control, the classification covering the operation will be the same as if manually operated.

WAGES per hour

	07/01/2011
Master Mechanic	$ 34.97
Class 1A	33.79
Class A	33.36
Class B	32.45
Class C	29.88

Additional $2.00 per hour for All Employees who work a single irregular work shift starting from 5:00 PM to 1:00 AM that is mandated by the Contracting Agency.
Additional $0.50 per hr for Cranes with Boom length & jib 150ft. and over.
Additional $1.00 per hr for Cranes with Boom length & jib 200ft. and over.
Additional $0.50 per hr for Tower Cranes.
Additional $2.50 per hr. for hazardous waste removal work on State and/or Federally designated waste site which require employees to wear Level C or above forms of personal protection.

(**)To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour paid

Journeyman $ 21.85

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: If the holiday falls on Sunday, it will be celebrated on Monday. If the holiday falls on a Saturday, it will be celebrated on Saturday.

REGISTERED APPRENTICES

Wages per hour

1000 hours terms at the following percentage of Journeyman's wage Class B

1st	2nd	3rd	4th
60%	70%	80%	90%

Supplemental Benefits per hour paid

All Terms $ 17.25

1-106h

Operating Engineer - Marine Construction 08/01/2011

JOB DESCRIPTION Operating Engineer - Marine Construction **DISTRICT** 4

ENTIRE COUNTIES
Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES
Per Hour:

DREDGING OPERATIONS	07/01/2011
CLASS A Operator, Leverman, Lead Dredgeman	$ 32.89
CLASS A1 Dozer,Front Loader Operator	To Conform to Operating Engineer Prevailing Wage in Locality where Work is being Performed including Benefits.
CLASS B Spider/Spill Barge Operator, Tug Operator(over1000hp), OperatorII, Fill Placer, Derrick Operator, Engineer, Chief Mate, Electrician, Chief Welder, Maintenance Engineer	$ 28.49
Certified Welder, Boat Operator(licensed)	$ 26.84
CLASS C Drag Barge Operator, Steward, Mate, Assistant Fill Placer,	$ 26.14
Welder (please add)$ 0.06	
Boat Operator	$ 25.29
CLASS D Shoreman, Deckhand, Rodman, Scowman, Cook, Messman, Porter/Janitor	$ 21.09
Oiler(please add)$ 0.09	

SUPPLEMENTAL BENEFITS
Per Hour:
THE FOLLOWING SUPPLEMENTAL BENEFITS APPLY TO ALL CATEGORIES

	07/01/2011
All Classes A & B	$ 8.05 plus 7% of straight time

	wage overtime hours add $ 0.63
All Class C	$ 7.75 plus 7% of straight time wage overtime hours add $ 0.48
All Class D	$ 7.45 plus 7% of straight time wage overtime hours add $ 0.23

OVERTIME PAY
See (B, F, R) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 26) on HOLIDAY PAGE

4-25a-MarConst

Operating Engineer - Survey Crew 08/01/2011

JOB DESCRIPTION Operating Engineer - Survey Crew **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES
Dutchess: : The Northern portion of the county from the Northern boundry line of the City of Poughkeepsie North.
Genesee: Only that portion of the county that lies east of a line down the center of Route 98 to include all area that lies within the City of Batavia

WAGES
Per hour:

SURVEY CLASSIFICATIONS: Party Chief- One who directs a survey party. Instrument person- One who runs the instrument and assists the Party Chief. Rod person- One who holds the rods and, in general, assists the survey party.

	07/01/2011	06/01/2012
Survey Rates:		
Party Chief	$ 31.62	$ 32.62
Instrument/Rod person	28.85	29.85

Additional $3.00 per hr. for work in a Tunnel.
Additional $2.50 per hr. for EPA or DEC certified toxic or hazardous waste work

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyman	$ 20.50	$ 21.75

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
WAGES: (1 yr. or 1000 hrs.) terms at the following wage rates.

1st year 60%	$ 17.31	$ 17.91
2nd year 70%	20.19	20.89
3rd year 80%	23.08	23.88

SUPPLEMENTAL BENEFITS:

	$ 20.50	$ 21.75

6-545 D.H.H.

Operating Engineer - Survey Crew - Consulting Engineer 08/01/2011

JOB DESCRIPTION Operating Engineer - Survey Crew - Consulting Engineer **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES
Dutchess: The northern portion of the county from the northern boundry line of the City of Poughkeepsie north.
Genesee: Entire county except that portion of the county that lies west of a line down the center of Route 98 excluding that area that lies within the City of Batavia..

WAGES
Per hour:

Feasibility and preliminary design surveying, line and grade surveying for inspection or supervision of construction when performed under a Consulting Engineer Agreement.
SURVEY CLASSIFICATIONS: Party Chief- One who directs a survey party.
Instrument Man- One who runs the instrument and assists the Party Chief.
Rodman- One who holds the rods and in general, assists the survey party.

	07/01/2011	06/01/2012
Survey Rates:		
Party Chief	$ 31.62	$ 32.62
Instrument/Rodperson	28.85	29.85

Additional $3.00 per hr. for work in a Tunnel.
Additional $2.50 per hr. for EPA or DEC certified toxic or hazardous waste work

SUPPLEMENTAL BENEFITS
Per hour worked:

$ 20.50	$ 21.75

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

6-545 DCE

Painter 08/01/2011

JOB DESCRIPTION Painter **DISTRICT** 1

ENTIRE COUNTIES
Essex, Hamilton, Warren, Washington

WAGES
Per hour

	07/01/2011	05/01/2012 An Additional
Brush, Taping	$ 25.04*	$ 1.35**
Paperhanging	25.04*	1.35**
Spray Rate	25.04*	1.35**
Structural Steel***	26.04*	1.35**
Lead Abatement	26.04*	1.35**
Lead Abatement on Structural Steel	27.04*	1.35**

(*)PLUS additional $0.05 per hour for all hours worked added to the base wage for all above categories of Painter.
(**)To be allocated at a later date
(***)Employees working on objects with the use of swing stage, boatswain chair, pick and cables only will be paid at Structural Steel rate. Structural Steel rate also applies to tanks over 100,000 gallons or over 20 feet high or under 55 feet wall height, towers, smoke stacks, flag poles.

Bridge Painter
See Bridge Painter rates for the following work:
All Bridges, All Elevated Tanks and Shell Tanks over 55 feet wall height.

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman $ 9.72

OVERTIME PAY
See (B, E2, H) on OVERTIME PAGE
Premium is applied to base wage only.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: If any of the holidays herein are designated by federal law to be celebrated on a day other than that on which they regularly fall, then the holiday shall be celebrated on the day set by said federal law.

REGISTERED APPRENTICES
Wages per hour

1 year terms at the following percentage of Journeyman's wage.

1st year	2nd year	3rd year	4th year
40%	50%	60%	80%

PLUS additoinal $0.05 per hour for all hours worked for all terms added to the wage

Supplemental Benefits per hour worked

All terms $ 9.72

1-466-Z2

Painter - Bridge & Structural Steel 08/01/2011

JOB DESCRIPTION Painter - Bridge & Structural Steel **DISTRICT** 9

ENTIRE COUNTIES
Albany, Bronx, Clinton, Columbia, Dutchess, Essex, Franklin, Fulton, Greene, Hamilton, Kings, Montgomery, Nassau, New York, Orange, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Suffolk, Sullivan, Ulster, Warren, Washington, Westchester

WAGES
(Per Hour Worked)

		07/01/2011
STEEL:		
	Bridge Painting	$ 46.25
	Power Tool/Spray	$ 52.25

Shift Work: Where project specifications and/or contract provide for night work outside the regular hours of work, and said night work is performed on a second shift, which is separate from the first crew, the night shift employees shall be paid an additional 10% of the regular wage up to seven (7) hours, after which they shall be paid at time and one half the regular wage. If only a night shift is employed, the employees shall be paid at time and one half.

Note: For Bridge Painting Contracts, ALL WORKERS on and off the bridge (including Flagmen) are to be paid Painter's Rate; the contract must be ONLY for Bridge Painting.

SUPPLEMENTAL BENEFITS
Per Hour Worked:

	07/01/2011
Journeyworker	$ 31.04* $ 31.04**
Hourly Rate after 40 hours from May 1st to Nov. 15th	$ 6.75 only
Hourly Rate after 50 hours from Nov. 16th to April 30th	$ 6.75 only

*For the period of May 1st to November 15th:
This rate shall be paid up to maximum of forty (40) hours worked per week. For all hours exceeding 40, the hourly rate shall drop to the hourly rate shown above by date.
EXCEPT for the first and last week of employment on the project, and for the weeks of Memorial Day, Independence Day and Labor Day, this rate shall be paid for the actual number of hours worked.

**For the period of November 16th to April 30th:
This rate shall be paid up to a maximum of fifty (50) hours worked per week. For all hours exceeding 50, the hourly rate shall drop to the hourly rate shown above by date.

OVERTIME PAY
See (A, F, R) on OVERTIME PAGE
*Note: When calculating overtime pay for the Power Tool/ Spray classification, add Six dollars to the hourly overtime rate calculated for the "Bridge Painting" classification.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (4, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
(Wage per hour Worked):

(1) year terms at the following percentage of Journeyworkers wage.

Apprentices:	1st	2nd	3rd
07/01/2011	40%	60%	80%

Supplemental Benefits:

1st Term: Same percentage as used for wage

2nd and 3rd term: Same percentage as used for wage

9-DC-9/806/155-BrSS

Painter - Line Striping 08/01/2011

JOB DESCRIPTION Painter - Line Striping **DISTRICT** 9

ENTIRE COUNTIES
Albany, Bronx, Clinton, Columbia, Dutchess, Essex, Franklin, Fulton, Greene, Hamilton, Kings, Montgomery, Nassau, New York, Orange, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Suffolk, Sullivan, Ulster, Warren, Washington, Westchester

WAGES
Per hour:

Painter (Striping-Highway):	07/01/2011
Striping-Machine Operator*	$26.61
Linerman Thermoplastic	$31.87

Note: * Includes but is not limited to: Positioning of cones and directing of traffic using hand held devices. Excludes the Driver/Operator of equipment used in the maintenance and protection of traffic safety

SUPPLEMENTAL BENEFITS
Per hour paid: 07/01/2011
Journeyworker: $13.06

OVERTIME PAY
See (B, E, P, S) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 20) on HOLIDAY PAGE
Overtime: See (5, 8, 11, 12, 15, 16, 17, 20, 21, 22) on HOLIDAY PAGE

9-8A/28A-LS

Painter - Metal Polisher 08/01/2011

JOB DESCRIPTION Painter - Metal Polisher **DISTRICT** 9

ENTIRE COUNTIES
Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

07/01/2011

Metal Polisher	$ 25.60*

*Note: All workers shall be paid an additional premium in an amount equal to twenty (20%) percent of their basic straight time rate of pay for all time worked on hanging scaffolds and on standing scaffolds while working more than 34 feet off the ground. Such premium are to be paid on top of their straight time or overtime, whichever is applicable. This also applies to employees erecting scaffolding.

SUPPLEMENTAL BENEFITS

Per Hour:	07/01/2011
Journeyworker:	$ 11.12

OVERTIME PAY
See (B, E, Q, T) on OVERTIME PAGE

HOLIDAY

Paid:	See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE
Overtime:	See (5, 6, 9, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
55% of Basic Polisher Rate

9-8A/28A-MP

Plumber 08/01/2011

JOB DESCRIPTION Plumber **DISTRICT** 1

ENTIRE COUNTIES
Essex, Franklin

PARTIAL COUNTIES
Hamilton: The Townships of Long Lake and Indian Lake

WAGES
Per hour

	07/01/2011	05/01/2012 An Additional	05/01/2013 An Additional
Plumber & Steamfitter	$ 31.25	$ 2.80**	$ 2.80**

**To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman	$ 13.03 + 8.30*

* This portion of the benefit is subject to the SAME PREMIUM as shown for overtime.

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid:	See (1) on HOLIDAY PAGE
Overtime:	See (5, 6, 16, 23) on HOLIDAY PAGE

Note: Whenever a Holiday falls on a Saturday, the preceding day, Friday, shall be observed as the Holiday. If a Holiday falls on a Sunday, the following day, Monday shall be observed as the Holiday.

REGISTERED APPRENTICES
Wages per hour

One year terms at the following percentage of Journeyman's wage

1st yr	50%
2nd yr	60%
3rd yr	70%
4th yr	80%
5th yr	90%

Supplemental Benefits per hour worked

1st yr	$ 11.77 + 4.15*
2nd yr	12.02 + 4.98*
3rd yr	12.27 + 5.81*

4th yr	12.52 + 6.64*
5th yr	12.78 + 7.47*

* This portion of the benefit is subject to the SAME PREMIUM as shown for overtime.

1-773-SF

Roofer 08/01/2011

JOB DESCRIPTION Roofer **DISTRICT** 1

ENTIRE COUNTIES
Albany, Clinton, Columbia, Essex, Fulton, Greene, Hamilton, Montgomery, Rensselaer, Saratoga, Schenectady, Warren, Washington

WAGES
Per hour

	07/01/2011	06/01/2012 An Additional	06/01/2013 An Additional
Roofer/Waterproofer	$ 26.40	$ 1.50*	$ 1.50*
Pitch & Asbestos	28.40	$ 1.50*	$ 1.50*

(*)To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman $ 12.62

OVERTIME PAY
See (B, E*, Q) on OVERTIME PAGE.
* Saturday may be used as a make up day at straight time if employee misses 8 hrs or more during that week due to inclement weather.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: When any Holiday falls on Saturday, the Friday before such Holiday shall be recognized as the legal Holiday. When a Holiday falls on Sunday, it shall be observed the following Monday.

REGISTERED APPRENTICES
Wages per hour

(1/2) year terms at the following per cent of the Roofer/Waterproofer rate. For Pitch & Asbestos work, an additional $2.00 must be paid in wages.

1st yr 1st half	50%
1st yr 2nd half	58%
2nd yr 1st half	66%
2nd yr 2nd half	74%
3rd yr 1st half	82%
3rd yr 2nd half	90%

Supplemental Benefits per hour worked

1st yr 1st half	$ 10.85
1st yr 2nd half	11.04
2nd yr 1st half	11.27
2nd yr 2nd half	11.47
3rd yr 1st half	11.75
3rd yr 2nd half	11.95

1-241

Sheetmetal Worker 08/01/2011

JOB DESCRIPTION Sheetmetal Worker **DISTRICT** 1

ENTIRE COUNTIES
Albany, Clinton, Columbia, Essex, Franklin, Fulton, Greene, Hamilton, Montgomery, Rensselaer, Saratoga, Schenectady, Schoharie, Warren, Washington

WAGES
Per hour

07/01/2011

Sheetmetal Worker	$ 29.78

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman	$ 22.34

OVERTIME PAY
See (B,E*,Q,) on OVERTIME PAGE

* Double time after 8 hours on Saturdays.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
When any holiday falls on Saturday, the Friday before such holiday shall be recognized as the legal holiday. Any holiday falling on Sunday, the following Monday shall be recognized as the legal holiday.

REGISTERED APPRENTICES
Wages per hour

6 Month Terms at the following rate:

1st term	$ 15.60
2nd term	16.88
3rd term	17.51
4th term	18.15
5th term	18.46
6th term	19.36
7th term	20.85
8th term	22.34
9th term	23.82
10th term	25.31

Supplemental Benefits per hour worked

1st term	$ 14.57
2nd term	14.98
3rd term	15.19
4th term	15.41
5th term	18.61
6th term	18.91
7th term	19.39
8th term	19.89
9th term	20.38
10th term	20.87

1-83

Sprinkler Fitter 08/01/2011

JOB DESCRIPTION Sprinkler Fitter **DISTRICT** 1

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Wyoming, Yates

WAGES
Per hour

	07/01/2011	01/01/2012	04/01/2012	01/01/2013
Sprinkler Fitter	$ 30.15	$ 30.15	$ 31.05	$ 31.05

SUPPLEMENTAL BENEFITS
Per hour worked

Journeyman	$ 19.00	$ 19.15	$ 19.15	$ 19.30

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

REGISTERED APPRENTICES

Wages per hour

For Apprentices Hired Prior To 04/01/2010:

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
50%	50%	55%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked

	07/01/2011	01/01/2012	04/01/2012	01/01/2013
1st & 2nd terms	$ 8.15	$ 8.15	$ 8.15	$ 8.15
3rd & 4th terms	14.00	14.15	14.15	14.30
All others	19.00	19.15	19.15	19.30

For Apprentices Hired On Or After 04/01/2010:

One Half Year terms at the following percentage of Journeyman's wage

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
45%	50%	55%	60%	65%	70%	75%	80%	85%	90%

Supplemental Benefits per hour worked

	07/01/2011	01/01/2012	04/01/2012	01/01/2013
1st & 2nd terms	$ 8.15	$ 8.15	$ 8.15	$ 8.15
3rd & 4th terms	14.00	14.15	14.15	14.30
All others	14.75	14.90	14.90	15.05

1-669

Teamster - Building 08/01/2011

JOB DESCRIPTION Teamster - Building **DISTRICT** 7

ENTIRE COUNTIES

Clinton, Essex, Franklin, Jefferson, St. Lawrence

PARTIAL COUNTIES

Lewis: Only the Townships of Croghan, Denmark, Diana, New Bremen,Harrisburg, Montague, Osceola and Pinckney.
Oswego: Only the Towns of Boylston, Redfield, and Sandy Creek.
Warren: Only the Townships of Hague, Horicon, Chester and Johnsburg.

WAGES

GROUP # 1: Fuel Trucks, Fork Lift (Warehouse & Storage Area Only), Bus, Warehouse, Yardman, Truck Helper, Pickups, Panel Truck, Flatbody Material Trucks (straight Jobs), Single axle Dump Trucks, Dumpsters, Material Checkers & Receivers, Greasers, Tiremen, Mechanic Helpers and Parts Chasers.
GROUP # 2: Tandems, Mechanics & Batch Trucks.
GROUP # 3: Semi Trailers, Low Boys, Asphalt Distributor Trucks, and Agitator Mixer Truck, Dump Crete Type Vehicles and 3 axle Dump trucks.
GROUP # 4: Asbestos Removal, Special earth moving Euclid type or similar off highway equip.(non self load.) Articulated and all-track dump trucks.

Wages per hour

	07/01/2011	06/01/2012	06/01/2013	06/01/2014
Building:		Additional	Additional	Additional
Group #1	$ 19.71	$ 19.58	$1.70	$ 1.80
Group #2	19.71	19.58	1.70	1.80
Group #3	19.81	19.68	1.70	1.80
Group #4	19.96	19.84	1.70	1.80

SUPPLEMENTAL BENEFITS

Per hour worked:

	07/01/2011	06/01/2012
All groups	$ 17.44	$ 19.17

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

7-687B

Teamster - Heavy&Highway 08/01/2011

JOB DESCRIPTION Teamster - Heavy&Highway **DISTRICT** 7

ENTIRE COUNTIES
Clinton, Essex, Franklin, Jefferson, St. Lawrence

PARTIAL COUNTIES
Lewis: Only the Townships of Croghan, Denmark, Diana, New Bremen,Harrisburg, Montague, Osceola and Pinckney.
Oswego: Only the Towns of Boylston, Redfield, and Sandy Creek.
Warren: Only the Townships of Hague, Horicon, Chester and Johnsburg.

WAGES
GROUP 1: Warehousemen, Yardmen, Truck Helpers, Pickups, Panel Trucks, Flatboy Material Trucks(straight jobs), Single Axle Dump Trucks, Dumpsters, Material Checkers and Receivers, Greasers, Truck Tiremen, Mechanics Helpers and Parts Chasers. Fork Lift (storage & warehouse areas only) Tandems and Batch Trucks, Mechanics, Dispatcher. Semi-Trailers, Low-boy Trucks, Asphalt Distributor Trucks, and Agitator, Mixer Trucks and dumpcrete type vehicles, Truck Mechanic,Fuel Truck.

GROUP 2: Specialized Earth Moving Equipment, Euclid type, or similar off-highway where not self-loading, Straddle (Ross) Carrier, and self-contained concrete mobile truck. Off-highway Tandem Back-Dump, Twin Engine Equipment and Double-Hitched Equipment where not self-loading.

Per hour:

	07/01/2011	06/01/2012	06/01/2013
Heavy/Highway:			Additional
Group #1	$ 22.74	$ 22.46	$ 1.70
Group #2	22.96	22.68	1.70

Additional $2.50 per hr for hazardous waste removal work on a City, County, and/or Federal Designated waste site and regulations require employee to use or wear respiratory protection. For work bid on or after April 1, 1982 there shall be a 12 month carryover of the negotiated rate in effect at the time of the bid.

SUPPLEMENTAL BENEFITS
Per hour worked:

	07/01/2011	06/01/2012
All classes	$ 18.75	$ 20.63

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

7-687

Welder 08/01/2011

JOB DESCRIPTION Welder **DISTRICT** 1

ENTIRE COUNTIES
Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES
Per hour 07/01/2011

Welder (To be paid the same rate of the mechanic performing the work)

OVERTIME PAY

HOLIDAY

1-As Per Trade

Overtime Codes

Following is an explanation of the code(s) listed in the OVERTIME section of each classification contained in the attached schedule. Additional requirements may also be listed in the HOLIDAY section.

(A)	Time and one half of the hourly rate after 7 hours per day
(AA)	Time and one half of the hourly rate after 7 and one half hours per day
(B)	Time and one half of the hourly rate after 8 hours per day
(B1)	Time and one half of the hourly rate for the 9th & 10th hours week days and the 1st 8 hours on Saturday. Double the hourly rate for all additional hours
(B2)	Time and one half of the hourly rate after 40 hours per week
(C)	Double the hourly rate after 7 hours per day
(C1)	Double the hourly rate after 7 and one half hours per day
(D)	Double the hourly rate after 8 hours per day
(D1)	Double the hourly rate after 9 hours per day
(E)	Time and one half of the hourly rate on Saturday
(E1)	Time and one half 1st 4 hours on Saturday Double the hourly rate all additional Saturday hours
(E3)	Between November 1st and March 3rd Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather, provided a given employee has worked between 16 and 32 hours that week
(E2)	Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
(E4)	Saturday and Sunday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
(F)	Time and one half of the hourly rate on Saturday and Sunday
(G)	Time and one half of the hourly rate on Saturday and Holidays
(H)	Time and one half of the hourly rate on Saturday, Sunday, and Holidays
(I)	Time and one half of the hourly rate on Sunday
(J)	Time and one half of the hourly rate on Sunday and Holidays
(K)	Time and one half of the hourly rate on Holidays
(L)	Double the hourly rate on Saturday
(M)	Double the hourly rate on Saturday and Sunday
(N)	Double the hourly rate on Saturday and Holidays
(O)	Double the hourly rate on Saturday, Sunday, and Holidays
(P)	Double the hourly rate on Sunday
(Q)	Double the hourly rate on Sunday and Holidays
(R)	Double the hourly rate on Holidays
(S)	Two and one half times the hourly rate for Holidays, if worked
(S1)	Two and one half times the hourly rate the first 8 hours on Sunday or Holidays One and one half times the hourly rate all additional hours.
(T)	Triple the hourly rate for Holidays, if worked

(U) Four times the hourly rate for Holidays, if worked

(V) Including benefits at SAME PREMIUM as shown for overtime

(W) Time and one half for benefits on all overtime hours.

NOTE:BENEFITS are PER HOUR WORKED,for each hour worked, unless otherwise noted

Holiday Codes

PAID Holidays:

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

OVERTIME Holiday Pay:

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays. The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Following is an explanation of the code(s) listed in the HOLIDAY section of each classification contained in the attached schedule. The Holidays as listed below are to be paid at the wage rates at which the employee is normally classified.

(1)	None
(2)	Labor Day
(3)	Memorial Day and Labor Day
(4)	Memorial Day and July 4th
(5)	Memorial Day, July 4th, and Labor Day
(6)	New Year's, Thanksgiving, and Christmas
(7)	Lincoln's Birthday, Washington's Birthday, and Veterans Day
(8)	Good Friday
(9)	Lincoln's Birthday
(10)	Washington's Birthday
(11)	Columbus Day
(12)	Election Day
(13)	Presidential Election Day
(14)	1/2 Day on Presidential Election Day
(15)	Veterans Day
(16)	Day after Thanksgiving
(17)	July 4th
(18)	1/2 Day before Christmas
(19)	1/2 Day before New Years
(20)	Thanksgiving
(21)	New Year's Day
(22)	Christmas
(23)	Day before Christmas
(24)	Day before New Year's
(25)	Presidents' Day
(26)	Martin Luther King, Jr. Day
(27)	Memorial Day

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New York State Department of Labor - Bureau of Public Work
State Office Building Campus
Building 12 - Room 130
Albany, New York 12240

REQUEST FOR WAGE AND SUPPLEMENT INFORMATION

As Required by Articles 8 and 9 of the NYS Labor Law

Fax (518) 485-1870 or mail this form for new schedules or for determination for additional occupations.

This Form Must Be Typed

Submitted By: (Check Only One) ☐ Contracting Agency ☐ Architect or Engineering Firm ☐ Public Work District Office Date:

A. Public Work Contract to be let by: (Enter Data Pertaining to Contracting/Public Agency)

1. Name and complete address ☐ (Check if new or change)

Telephone: ( ) Fax: ( )
E-Mail:

2. NY State Units (see Item 5)

- ☐ 01 DOT
- ☐ 02 OGS
- ☐ 03 Dormitory Authority
- ☐ 04 State University Construction Fund
- ☐ 05 Mental Hygiene Facilities Corp.
- ☐ 06 OTHER N.Y. STATE UNIT
- ☐ 07 City
- ☐ 08 Local School District
- ☐ 09 Special Local District, i.e., Fire, Sewer, Water District
- ☐ 10 Village
- ☐ 11 Town
- ☐ 12 County
- ☐ 13 Other Non-N.Y. State (Describe)

3. SEND REPLY TO (☐ check if new or change)
Name and complete address:

Telephone:( ) Fax: ( )
E-Mail:

4. SERVICE REQUIRED. Check appropriate box and provide project information.

☐ New Schedule of Wages and Supplements.

APPROXIMATE BID DATE :

☐ Additional Occupation and/or Redetermination

PRC NUMBER ISSUED PREVIOUSLY FOR THIS PROJECT :

OFFICE USE ONLY

B. PROJECT PARTICULARS

5. Project Title _____

Description of Work _____

Contract Identification Number _____

Note: For NYS units, the OSC Contract No. _____

6. Location of Project:
Location on Site _____

Route No/Street Address _____

Village or City _____

Town _____

County _____

7. Nature of Project - Check One:

- ☐ 1. New Building
- ☐ 2. Addition to Existing Structure
- ☐ 3. Heavy and Highway Construction (New and Repair)
- ☐ 4. New Sewer or Waterline
- ☐ 5. Other New Construction (Explain)
- ☐ 6. Other Reconstruction, Maintenance, Repair or Alteration
- ☐ 7. Demolition
- ☐ 8. Building Service Contract

8. OCCUPATION FOR PROJECT :

- ☐ Construction (Building, Heavy Highway/Sewer/Water)
- ☐ Tunnel
- ☐ Residential
- ☐ Landscape Maintenance
- ☐ Elevator maintenance
- ☐ Exterminators, Fumigators
- ☐ Fire Safety Director, NYC Only
- ☐ Guards, Watchmen
- ☐ Janitors, Porters, Cleaners, Elevator Operators
- ☐ Moving furniture and equipment
- ☐ Trash and refuse removal
- ☐ Window cleaners
- ☐ Other (Describe)

9. Has this project been reviewed for compliance with the Wicks Law involving separate bidding? YES ☐ NO ☐

10. Name and Title of Requester

Signature

SEE PAGE TWO FOR LAWS RELATING TO PUBLIC WORK CONTRACTS

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NEW YORK STATE DEPARTMENT OF LABOR
Bureau of Public Work - Debarment List

LIST OF EMPLOYERS INELIGIBLE TO BID ON OR BE AWARDED ANY PUBLIC WORK CONTRACT

Under Article 8 and Article 9 of the NYS Labor Law, a contractor, sub-contractor and/or its successor shall be debarred and ineligible to submit a bid on or be awarded any public work or public building service contract/sub-contract with the state, any municipal corporation or public body for a period of five (5) years from the date of debarment when:

- Two (2) final determinations have been rendered within any consecutive six-year (6) period determining that such contractor, sub-contractor and/or its successor has WILLFULLY failed to pay the prevailing wage and/or supplements
- One (1) final determination involves falsification of payroll records or the kickback of wages and/or supplements

NOTE: The agency issuing the determination and providing the information, is denoted under the heading 'Fiscal Officer'. DOL = NYS Dept. of Labor; NYC = New York City Comptroller's Office; AG = NYS Attorney General's Office; DA = County District Attorney's Office.

A list of those barred from bidding, or being awarded, any public work contract or subcontract with the State, under section 141-b of the Workers' Compensation Law, may be obtained at the following link, on the NYS DOL Website:

https://dbr.labor.state.ny.us/EDList/searchPage.do

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NYSDOL Bureau of Public Work Debarment List 08/03/2011

Article 8

AGENCY	Fiscal Office	SSN/FEIN	EMPLOYER NAME	EMPLOYER DBA NAME	ADDRESS	DEBARMENT START DATE	DEBARMENT END DATE
DOL	AG	*****1355	4-A GENERAL CONSTRUCTION CORP.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	*****7478	A & T GENERAL CONSTRUCTION INC.		3 ALAN B SHEPARD PLACE YONKERS NY 10705	12/11/2006	12/11/2011
DOL	NYC		A & T IRON WORKS INC		25 CLIFF STREET NEW ROCHELLE NY 10801	06/15/2010	06/15/2015
DOL	DOL	*****0711	A ULIANO & SON LTD		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	DOL		A ULIANO CONSTRUCTION		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	NYC	*****5804	AAR CO ELECTRIC INC		5902 AVENUE N BROOKLYN NY 11234	03/20/2009	03/20/2014
DOL	DOL	*****9095	ABDO TILE CO		6179 EAST MOLLOY ROAD EAST SYRACUSE NY 13057	06/25/2010	06/25/2015
DOL	DOL	*****9095	ABDO TILE COMPANY		6179 EAST MOLLOY ROAD EAST SYRACUSE NY 13057	06/25/2010	06/25/2015
DOL	DOL	*****0635	ABOVE ALL PUMP REPAIR CORP		360 KNICKERBOCKER AVENUE BATAVIA NY 11716	10/20/2008	10/20/2013
DOL	NYC	*****5022	ACE DRYWALL SYSTEMS INC.		194 ASHLAND PLACE BROOKLYN NY 11217	03/06/2008	03/06/2013
DOL	AG	*****8219	ACTIVE CABLING INC		C/O FRANK DECAPITE 7 SYCAMORE ROAD DRWOODBURY NY 11797	10/02/2008	10/01/2013
DOL	DOL		ADAM A CEMERYS		2718 CURRY ROAD SCHENECTADY NY 12303	07/08/2010	07/08/2015
DOL	DOL	*****3012	ADAM DECKMAN	DECKMAN PAINTING	154 POND VIEW PARKWAY ROCHESTER NY 14612	04/16/2007	04/16/2012
DOL	DOL		ADAM'S FLOOR COVERING LLC		2718 CURRY ROAD SCHENECTADY NY 12303	07/08/2010	08/08/2015
DOL	DOL		AFFORDABLE PAINTING PLUS		367 GREEVES ROAD NEW HAMPTON NY 10958	10/01/2010	10/01/2015
DOL	DOL		ALL TOWNS MECHANICAL	BARRY MORRIS	18 EAST SUNRISE HIGHWAY FREEPORT NY 11758	01/21/2008	01/21/2013
DOL	DOL	*****3101	ALLSTATE CONCRETE CUTTING, INC.		635 MIDLAND AVENUE GARFIELD NJ 07026	07/09/2007	07/09/2012
DOL	DOL	*****8534	ALPHA INTERIORS INC		513 ACORN STREET/ SUITE C DEER PARK NY 11729	05/27/2010	05/27/2015
DOL	DOL	*****8291	AMIR'S VISION INC		230 PRATT STREET BUFFALO NY 14204	09/17/2008	09/17/2013
DOL	AG		ANASTASIA ANTHOULIS	AKA STACEY GOUZOS	131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	NYC		ANDERSON LOPEZ		670 SOUTHERN BLVD BRONX NY 10455	06/14/2011	06/14/2016
DOL	DOL	*****0860	ANDREA STEVENS	STEVENS TRUCKING	2458 EAST RIVER ROAD CORTLAND NY 13045	01/23/2008	01/23/2013
DOL	AG		ANTHONY BRANCA		700 SUMMER STREET STAMFORD CT	11/24/2009	11/24/2014
DOL	DOL		ANTHONY POSELLA		30 GLEN HOLLOW ROCHESTER NY 14622	10/19/2009	10/19/2014
DOL	DOL		ANTHONY TAORMINA		215 MCCORMICK DRIVE BOHEMIA NY 11716	05/20/2009	05/20/2014
DOL	DOL		ANTHONY ULIANO		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	AG	*****7327	ANTHOS CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	*****2725	ARAGONA CONSTRUCTION CORP		5755 NEWHOUSE ROAD EAST AMHERST NY 14051	10/10/2007	10/10/2012
DOL	DOL	*****8688	ARC MECHANICAL CORP		215 MCCORMICK DRIVE BOHEMIA NY 11716	05/20/2009	05/20/2014
DOL	DOL	*****8482	ARGO CONTRACTING CORP		5752 WEST WEBB ROAD YOUNGSTOWN OH 44515	05/21/2008	05/21/2013
DOL	NYC	*****5804	ARIE BAR	C/O AAR CO ELECTRIC INC	5902 AVENUE N BROOKLYN NY 11234	03/20/2009	03/20/2014
DOL	DOL		ARTHUR C OSUORAH		PO BOX 1295 BUFFALO NY 14215	02/15/2008	02/15/2013
DOL	DOL	*****8027	ARTHUR DESIGN ENGINEERS & ASSOCIATES		PO BOX 1295 BUFFALO NY 14215	02/15/2008	02/15/2013
DOL	DOL	*****9336	ARTIERI SPECIALTIES LLC	SWITZER SALES	107 STEVENS STREET LOCKPORT NY 14094	11/04/2009	11/04/2014
DOL	DOL	*****2993	AST DRYWALL & ACOUSTICS INC		46 JOHN STREET - STE 711 NEW YORK NY 10038	12/16/2008	12/16/2013
DOL	DA	*****5761	AZTEC PLUMBING & HEATING CORP		153 BAYWOODS LANE BAY SHORE NY 11706	03/19/2007	03/19/2012

NYSDOL Bureau of Public Work Debarment List 08/03/2011

Article 8

DOL	DOL	*****7828	BALLAGH GENERAL CONTRACTING INC		250 KNEELAND AVENUE YONKERS NY 10705	07/09/2007	07/09/2012
DOL	NYC		BASIL ROMEO		243-03 137TH AVENUE ROSEDALE NY 11422	03/25/2010	03/25/2015
DOL	DOL		BEATRICE ORTEGA		764 BRADY AVE - APT 631 BRONX NY 10462	05/21/2008	05/21/2013
DOL	DOL		BENNY VIGLIOTTI		C/O LUVIN CONSTRUCTION CO P O BOX 357CARLE PLACE NY 11514	03/15/2010	03/15/2015
DOL	DOL		BERNADETTE GORMALLY		250 KNEELAND AVENUE YONKERS NY 10705	07/09/2007	07/09/2012
DOL	NYC		BERNARD COHNEN		193 HARWOOD PLACE PARAMUS NJ 07652	05/14/2008	05/14/2013
DOL	DOL	*****6999	BEST ROOFING OF NEW JERSEY LLC		30 MIDLAND AVENUE WALLINGTON NJ 07057	11/05/2010	11/05/2015
DOL	DOL	*****9890	BETTY JOE FRAZIER	NOBLE CONSTRUCTION GROUP	23960 WHITE ROAD WATERTOWN NY 13601	02/14/2008	02/14/2013
DOL	DOL		BIAGIO CANTISANI		200 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL	*****0818	BLASTEC INC	MILLER SANDBLASTING & PAINTING	121 LINCOLN AVENUE ROCHESTER NY 14611	02/21/2008	02/21/2013
DOL	DOL	*****8501	BLOCKHEAD CONCRETE & PAVING INC		P O BOX 71 CHEEKTOWAGA NY 14225	09/03/2008	09/03/2013
DOL	NYC	*****8377	BOSPHORUS CONSTRUCTION CORPORATION		3817 KINGS HIGHWAY-STE 1D BROOKLYN NY 11234	07/08/2010	07/08/2015
DOL	DOL		BRIAN HOXIE		2219 VALLEY DRIVE SYRACUSE NY 13207	12/04/2009	12/04/2014
DOL	DOL	*****4311	C & F SHEET METAL CORP		201 RICHARDS STREET BROOKLYN NY 11231	02/25/2009	02/24/2014
DOL	DOL	*****9286	CALI BROTHERS INC		1223 PARK STREET PEEKSKILL NY 10566	09/12/2007	09/12/2012
DOL	DOL		CANTISANI & ASSOCIATES LTD		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY CONCRETE CORP		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY ENTERPRISES LTD		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY MASONRY CORP		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		CARMODY"2" INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL	*****9721	CATENARY CONSTRUCTION CORP		112 HUDSON AVENUE ROCHESTER NY 14605	02/14/2006	10/20/2014
DOL	DOL	*****7924	CBI CONTRACTING INCORPORATED		2081 JACKSON AVENUE COPIAGUE NY 11726	06/03/2010	06/03/2015
DOL	DOL		CHARLES MURDOUGH		203 KELLY DRIVE EAST AURORA NY 14052	03/26/2008	03/26/2013
DOL	DOL		CHARLES OKRASKI		67 WARD ROAD SALT POINT NY 12578	01/21/2011	01/21/2016
DOL	DOL		CHARLES RIBAUDO		513 ACORN ST - SUITE C DEER PARK NY 11729	05/27/2010	05/27/2015
DOL	DOL	*****1416	CHEROMINO CONTROL GROUP LLC		61 WILLET ST - SUITE 14 PASSAIC NJ 07055	12/03/2009	07/09/2015
DOL	DOL		CHESTER A BEDELL		1233 WALT WHITMAN ROAD MELVILLE NY 11747	04/29/2008	04/29/2013
DOL	DOL		CHRIST R PAPAS		C/O TRAC CONSTRUCTION INC 9091 ERIE ROADANGOLA NY 14006	02/03/2011	02/03/2016
DOL	DOL		CHRISTOPHER NICHOLSON		91 NEWMAN PLACE BUFFALO NY 14210	10/19/2006	10/19/2011
DOL	DOL		CITY GENERAL BUILDERS INC		131 MELROSE STREET BROOKLYN NY 11206	03/02/2010	03/02/2015
DOL	DOL	*****7086	CITY GENERAL IRON WORKS INC		131 MELROSE STREET BROOKLYN NY 11206	03/02/2010	03/02/2015
DOL	DOL	*****5329	CNY MECHANICAL ASSOCIATES INC		P O BOX 250 EAST SYRACUSE NY 13057	11/06/2008	11/06/2013
DOL	NYC	*****1768	COFIRE PAVING CORPORATION		120-30 28TH AVENUE FLUSHING NY 11354	01/14/2011	01/14/2016
DOL	DOL	*****6866	COMMERCIAL SYSTEM CONSTRUCTION		91 NEWMAN PLACE BUFFALO NY 14210	10/19/2006	10/19/2011

NYSDOL Bureau of Public Work Debarment List 08/03/2011

Article 8

DOL	DOL	*****5740	CORTLAND GLASS COMPANY INC		336 TOMPKINS STREET CORTLAND NY 13045	02/02/2010	10/21/2015
DOL	NYC	*****8777	CROSSLAND ELECTRICAL SYSTEMS INC		846 EAST 52ND STREET BROOKLYN NY 11203	12/19/2008	12/29/2013
DOL	DOL	*****0115	CROW AND SUTTON ASSOCIATES INC		949 GROVESIDE ROAD BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL	*****4266	CRYSTAL INTERIOR CONTRACTING INC		922 CRESCENT STREET BROOKLYN NY 11208	05/21/2008	05/21/2013
DOL	DOL	*****1804	CUSTOM GARDEN LANDSCAPING INC		283 NORTH MIDDLETOWN ROAD PEARL RIVER NY 10965	09/28/2009	09/28/2014
DOL	DOL	*****9453	D & D MASON CONTRACTORS INC		158-11 96TH STREET HOWARD BEACH NY 11414	06/25/2009	06/25/2014
DOL	DOL	*****6339	D J FLOORS INC		9276 VIA CIMATO DRIVE CLARENCE CENTER NY 14032	08/29/2007	08/29/2012
DOL	DOL		D JAMES SUTTON		949 GROVESIDE ROAD BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL		DANIEL CELLUCCI ELECTRIC		17 SALISBURY STREET GRAFTON MA 01519	06/02/2010	06/02/2015
DOL	DOL	*****7129	DANIEL T CELLUCCI	DANIEL CELLUCCI ELECTRIC	17 SALISBURY STREET GRAFTON MA 01519	06/02/2010	06/02/2015
DOL	DOL		DARIN ANDERSON		134-25 166 PLACE #5E JAMAICA NY 11434	08/07/2008	08/07/2013
DOL	DOL		DARREN MAYDWELL		115 LEWIS STREET YONKERS NY 10703	05/12/2009	05/12/2014
DOL	DOL		DEANNA J REED		5900 MUD MILL RD-BOX 949 BREWERTON NY 13029	09/02/2008	09/02/2013
DOL	DOL	*****3012	DECKMAN PAINTING		154 POND VIEW PARKWAY ROCHESTER NY 14612	04/16/2007	04/16/2012
DOL	DOL	*****2311	DELCON CONSTRUCTION CORP		220 WHITE PLAINS ROAD TARRYTOWN NY 10591	08/27/2009	08/27/2014
DOL	DOL	*****6971	DELPHI PAINTING AND DECORATING INC		1445 COMMERCE AVENUE BRONX NY 10461	10/09/2007	10/09/2012
DOL	DOL	*****3538	DELTA CONTRACTING PAINTING AND DESIGN INC		75 MCCULLOCH DRIVE DIX HILLS NY 11746	10/19/2010	10/19/2015
DOL	DOL		DESMOND CHARLES		922 CRESCENT STREET BROOKLYN NY 11208	05/21/2008	05/21/2013
DOL	DOL	*****7157	DG PIPELINE INC		312 HALSEYVILLE ROAD ITHACA NY 14850	09/06/2006	09/06/2011
DOL	DOL		DIMITEIUS KASSIMIS		152-65 11TH AVENUE WHITESTONE NY 11357	05/22/2008	05/22/2013
DOL	DOL		DONALD NOWAK		10 GABY LANE CHEEKTOWAGA NY 14227	10/15/2009	10/15/2014
DOL	DOL		DONALD SCHWENDLER		9276 VIA CIMATO DRIVE CLARENCE CENTER NY 14032	08/29/2007	08/29/2012
DOL	DOL	*****6148	DOT CONSTRUCTION OF NY INC		765 BRADY AVE - APT 631 BRONX NY 10462	05/21/2008	05/21/2013
DOL	DOL		DOUGLAS MCEWEN		121 LINCOLN AVENUE ROCHESTER NY 14611	02/21/2008	02/21/2013
DOL	DOL		DOUGLAS S GRIFFEN		312 HALSEYVILLE ROAD ITHACA NY 14850	09/06/2006	09/06/2011
DOL	DOL		DRAGOLJUB RADOJEVIC	61 WILLET ST - SUITE 14	PASSAIC NJ 07055	12/03/2009	07/09/2015
DOL	NYC	*****6176	E N E L ELECTRICAL CORP		1107 MCDONALD AVENUE BROOKLYN NY 11230	07/30/2010	07/30/2015
DOL	NYC	*****8074	ECONOMY IRON WORKS INC		670 SOUTHERN BLVD BRONX NY 10455	06/14/2011	06/14/2016
DOL	DOL		EDWARD SUBEH		1 CHELSEA COURT ATLANTIC CITY NJ 08401	10/06/2008	10/06/2013
DOL	DOL	*****3554	ELITE BUILDING ENTERPRISES INC		34-08 PARKWAY DRIVE BALDWIN NY 11510	07/01/2008	07/21/2013
DOL	AG	*****3233	EMEIS & EMEIS GENERAL CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	*****0780	EMES HEATING & PLUMBING CONTR		5 EMES LANE MONSEY NY 10952	01/20/2002	01/20/3002
DOL	DOL	*****6101	ENHANCED DATA COM INC		75 SHERBROOK ROAD NORTH BABYLON NY 11704	07/01/2010	07/01/2015
DOL	DOL		ERROL L ALLEN		134-25 166 PLACE #5E JAMAICA NY 11434	08/07/2008	08/07/2013
DOL	DOL		ESCO INSTALLERS LLC		1 CHELSEA COURT ATLANTIC CITY NJ 08401	10/06/2008	10/06/2013
DOL	DOL	*****0329	FAULKS PLUMBING HEATING & AIR CONDITIONING INC		3 UPTON STREET HILTON NY 14468	06/10/2008	06/10/2013
DOL	DOL		FERNANDO GOMEZ		201 RICHARDS STREET BROOKLYN NY 11231	02/25/2009	02/25/2014

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DOL	DOL	*****0768	FISHER CONCRETE INC		741 WELSH ROAD JAVA CENTER NY 14082	04/08/2009	04/08/2014
DOL	DOL	*****0115	FOXCROFT NURSERIES INC		949 GROVESIDE ROAD BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL		FRANCIS (FRANK) OSCIER		3677 SENECA STREET WEST SENECA NY 14224	09/03/2008	09/03/2013
DOL	NYC		FRANK (FRANCIS) OSCIER		3677 SENECA STREET WEST SENECA NY 14224	09/03/2008	09/03/2013
DOL	NYC	*****5498	FRANK ACOCELLA		68 GAYLORD ROAD SCARSDALE NY 10583	02/16/2011	02/16/2015
DOL	NYC		FRANK BAKER		24 EDNA DRIVE SYOSSET NY 11791	05/14/2008	05/14/2013
DOL	DOL		FRANK J MERCANDO	C/O MERCANDO CONTRACTIN G CO INC	134 MURRAY AVENUE YONKERS NY 10704	11/22/2008	11/22/2013
DOL	DOL		FRANK J MERCANDO		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	12/11/2014
DOL	DOL	*****0128	FRANK J TUCEK & SON INC		92 NORTH ROUTE 9W CONGERS NY 10920	01/29/2007	01/29/2012
DOL	DOL		FRANK ORTIZ		75 SHERBROOK ROAD NORTH BABYLON NY 11704	07/01/2010	07/01/2015
DOL	DOL		FRED ABDO	ABDO TILE COMPANY AKA ABDO TILE CO	6179 EAST MOLLOY ROAD EAST SYRACUSE NY 13057	06/25/2010	06/25/2015
DOL	DOL	*****9202	G & M PAINTING ENTERPRISES INC		13915 VILLAGE LANE RIVERVIEW MI 48192	02/05/2010	02/05/2015
DOL	DOL	*****9832	G A FALCONE CONSTRUCTION INC		253 COMMONWEALTH AVENUE BUFFALO NY 14216	08/07/2007	08/07/2012
DOL	DOL	*****7088	GBA CONTRACTING CORP		4015 21ST AVENUE ASTORIA NY 11105	01/11/2008	01/11/2013
DOL	DOL	*****6826	GBE CONTRACTING CORPORATION		12-14 UTOPIA PARKWAY WHITESTONE NY 11357	02/10/2010	02/10/2015
DOL	NYC		GELSOMINA TASSONE		25 CLIFF STREET NEW ROCHELLE NY 10801	06/15/2010	06/15/2015
DOL	DOL		GEORGE A PATTI III		P O BOX 772 JAMESTOWN NY 14701	08/13/2010	08/13/2015
DOL	AG		GEORGE BEGAKIS		57-16 157TH STREET FLUSHING NY 11355	10/04/2006	10/04/2011
DOL	NYC		GEORGE LUCEY		150 KINGS STREET BROOKLYN NY 11231	01/19/1998	01/19/2998
DOL	DOL		GEORGE SHINAS		12-14 UTOPIA PARKWAY WHITESTONE NY 11357	02/10/2010	02/10/2015
DOL	DOL		GERALD A POLLOCK		336 TOMPKINS STREET CORTLAND NY 13045	06/29/2010	10/21/2015
DOL	DOL		GERALD F POLUCH JR		2085 BRIGHTON HENRIETTA TOWN LINE ROADROCHESTER NY 14623	11/04/2010	11/04/2015
DOL	AG		GERARD IPPOLITO		563 MUNCEY ROAD WEST ISLIP NY 11795	07/14/2008	07/14/2013
DOL	AG		GERASIMO ANDRIANIS		22-15 47TH STREET ASTORIA NY 11105	08/03/2006	08/03/2011
DOL	DOL		GREG SURACI		364 BLEAKER ROAD ROCHESTER NY 14609	10/25/2007	10/25/2012
DOL	DOL		GRIOGORIOS BELLOS		4015 21ST AVENUE ASTORIA NY 11105	01/11/2008	01/11/2013
DOL	DOL	*****9985	GROUND LEVEL CONSTRUCTION		10 GABY LANE CHEEKTOWAGA NY 14227	10/15/2009	10/15/2014
DOL	DOL	*****8904	HALLOCKS CONSTRUCTION CORP	P O BOX 278	YORKTOWN HEIGHTS NY 10598	12/01/2008	12/01/2013
DOL	DOL		HARALAMBOS KARAS		80-12 ASTORIA BOULEVARD EAST ELMHURST NY 11370	11/22/2008	10/22/2013
DOL	DOL	*****0080	HI-AMP ELECTRICAL CONTRACTING CORP		265-12 HILLSIDE AVENUE FLORAL PARK NY 11004	02/15/2008	02/15/2013
DOL	DOL	*****4331	HIDDEN VALALEY EXCAVATING INC		225 SEYMOUR STREET FREDONIA NY 14063	02/08/2011	02/08/2016
DOL	DOL	*****9893	HOXIE'S PAINTING CO INC		2219 VALLEY DRIVE SYRACUSE NY 13207	12/04/2009	12/04/2014
DOL	DOL	*****6429	IDM ENTERPRISES INC		60 OUTWATER LANE GARFIELD NJ 07026	05/09/2009	05/09/2014
DOL	DOL	*****6293	IMPRESSIVE CONCRETE CORP		264A SUBURBAN AVENUE DEER PARK NY 11729	12/18/2007	12/18/2012
DOL	DOL	*****8898	IN-TECH CONSTRUCTION INC		8346 BREWERTON ROAD CICERO NY 13039	07/06/2007	07/06/2012

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DOL	DOL	*****7561	INDUS GENERAL CONSTRUCTION		33-04 91ST STREET JACKSON HEIGHTS NY 11372	04/28/2010	04/28/2015
DOL	NYC	*****7728	INTEGRITY CONSTRUCTION & CONSULTING SERVS		7615 MYRTLE AVENUE GLENDALE NY 11385	02/15/2007	02/15/2012
DOL	DOL	*****0488	INTERWORKS SYSTEMS, INC.		1233 WALT WHITMAN ROAD MELVILLE NY 11747	04/29/2008	04/29/2013
DOL	DOL		ISRAEL MONTESINOS		517 MILES SQUARE ROAD YONKERS NY 10701	02/15/2008	02/15/2013
DOL	DOL		IVAN D MARKOVSKI		60 OUTWATER LANE GARFIELD NJ 07026	05/09/2009	05/09/2014
DOL	DOL		IVAN TORRES		11 PLYMOUTH ROAD DIX HILLS NY 11746	02/15/2008	02/15/2013
DOL	DOL	*****0579	J & I CONSTRUCTION CORP		110 FOURTH STREET NEW ROCHELLE NY 10801	02/15/2008	02/15/2013
DOL	DOL		J & N LEASING AND BUILDING MATERIALS		154 EAST BOSTON POST ROAD MAMARONECK NY 10543	08/11/2009	08/11/2014
DOL	DOL	*****1584	J M TRI STATE TRUCKING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	DOL		JAMES SICKAU		3090 SHIRLEY ROAD NORTH COLLINS NY 14111	04/19/2011	04/19/2016
DOL	AG	*****1562	JANS GENERAL CONSTRUCTION CORP.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		JASON ASBURY		22562 SEA BASS DRIVE BOCA RATON FL 33428	10/10/2007	10/10/2012
DOL	DOL		JAY MEYER		239 MARSH DRIVE DEWITT NY 13214	02/20/2007	02/20/2012
DOL	DOL		JEANETTE CALICCHIA		1223 PARK STREET PEEKSKILL NY 10566	09/12/2007	09/12/2012
DOL	DOL		JEFFREY ARTIERI		107 STEVENS STREET LOCKPORT NY 14094	11/04/2009	11/04/2014
DOL	DOL		JOHN B DUGAN		121 LINCOLN AVENUE ROCHESTER NY 14611	02/21/2008	02/21/2013
DOL	DA		JOHN BIAS		153 BAYWOODS LANE BAY SHORE NY 11706	03/19/2007	03/19/2012
DOL	DOL		JOHN BUONADONNA		283 NORTH MIDDLETOWN ROAD PEARL RIVER NY 10965	09/28/2009	09/28/2014
DOL	DOL		JOHN DESCUL		75 MCCULLOCH DRIVE DIX HILLS NY 11746	10/19/2010	10/19/2015
DOL	NYC		JOHN DITURI		1107 MCDONALD AVENUE BROOKLYN NY 11230	07/30/2010	07/30/2015
DOL	NYC		JOHN FICARELLI		120-30 28TH AVENUE FLUSHING NY 11354	01/14/2011	01/14/2016
DOL	DOL		JOHN JIULIANNI		222 GAINSBORG AVENUE E WEST HARRISON NY 10604	05/10/2010	05/10/2015
DOL	NYC		JOHN MARI JR		278 ROBINSON AVENUE NEW YORK NY 10312	04/06/2008	04/06/2013
DOL	NYC		JOHN O'SHEA		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	DOL	*****5970	JOHN PREVETE FRAMING AND JOHN PREVETE FRAMING INC	JOHN PREVETE	320 RIDGE ROAD WEST MILFORD NJ 07480	03/26/2008	03/26/2013
DOL	DOL	*****2701	JOHN SMYKLA	AFFORDABLE PAINTING PLUS	367 GREEVES ROAD NEW HAMPTON NY 10958	10/01/2010	10/01/2015
DOL	DOL		JOSE DOS SANTOS JR		85-08 60TH AVENUE ELMHURST NY 11373	11/21/2008	11/21/2013
DOL	DOL		JOSEPH CALICCHIA		1223 PARK STREET PEEKSKILL NY 10566	09/12/2007	09/12/2012
DOL	DOL		JOSEPH MONETTE		C/O JOHN MONETTE 140 ARMSTRONG AVENUESYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	DOL	*****1763	JR RESTORATION & ROOFING INC		152-65 11TH AVENUE WHITESTONE NY 11357	05/22/2008	05/22/2013
DOL	DOL		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL	*****9422	JUNKYARD CONSTRUCTION CORP.		2068 ANTHONY AVENUE BRONX NY 10457	12/26/2007	12/26/2012
DOL	DOL	*****3810	K M MARTELL CONSTRUCTION, INC.		57 CROSS ROAD MIDDLETOWN NY 10940	06/25/2007	06/25/2012
DOL	DOL	*****9993	K M R ENTERPRISES		10 STUFFLE STREET CROPSEYVILLE NY 12052	12/20/2006	12/20/2011
DOL	DOL		K NELSON SACKOOR		16 JOY DRIVE NEW HYDE PARK NY 11040	01/05/2010	01/05/2015
DOL	DOL	*****8648	K-STAR CONSTRUCTION CORP		42 48 161ST STREET FLUSHING NY 11358	12/11/2006	12/11/2011

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DOL	NYC		KAMIL OZTURK		3715 KINGS HWY - STE 1D BROOKLYN NY 11234	07/08/2010	07/08/2015
DOL	NYC		KAZIMIERZ KONOPSKI		194 ASHLAND PLACE BROOKLYN NY 11217	03/06/2008	03/06/2013
DOL	AG		KEFCAL CONSTRUCTION, INC.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	NYC	*****4923	KELLY'S SHEET METAL, INC.		1426 ATLANTIC AVENUE BROOKLYN NY 11216	12/28/2007	12/28/2012
DOL	DOL		KEMPTON MCINTOSH		8531 AVENUE B BROOKLYN NY 11236	12/16/2008	12/16/2013
DOL	DOL		KEVIN MARTELL		57 CROSS ROAD MIDDLETOWN NY 10940	06/25/2007	06/25/2012
DOL	DOL	*****5941	KINGSVIEW ENTERPRISES INC		7 W FIRST STREET P O BOX 2LAKEWOOD NY 14750	01/14/2011	01/14/2016
DOL	AG	*****3318	KOSMAR CONTRACTING CORP.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		KRIS CLARKSON		2484 CATON ROAD CORNING NY 14830	06/20/2007	06/20/2012
DOL	NYC	*****8816	LAKE CONSTRUCTION AND DEVELOPMENT CORPORATION		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL	*****9628	LANCET ARCH INC		112 HUDSON AVENUE ROCHESTER NY 14605	02/14/2006	10/19/2014
DOL	DOL		LANCET SPECIALTY CONTRACTING CORP		C/O CATENARY CONSTRUCTION 112 HUDSON AVENUEROCHESTER NY 14605	10/19/2009	10/19/2014
DOL	DOL		LARRY FRANGOS		5752 WEST WEBB ROAD YOUNGSTOWN OH 44515	05/21/2008	05/21/2013
DOL	DOL	*****7907	LEEMA EXCAVATING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	AG	*****5102	LIBERTY TREE SERVICE, INC.		563 MUNCEY ROAD WEST ISLIP NY 11795	07/14/2008	07/14/2013
DOL	DOL	*****8453	LINPHILL ELECTRICAL CONTRACTORS INC		523 SOUTH 10TH AVENUE MOUNT VERNON NY 10553	01/07/2011	01/07/2016
DOL	DOL		LINVAL BROWN		523 SOUTH 10TH AVENUE MOUNT VERNON NY 10553	01/07/2011	01/07/2016
DOL	DOL	*****5953	LPD CONTRACTING INC		1205 MCBRIDE AVENUE WEST PATTERSON NJ 07424	08/27/2007	08/27/2012
DOL	DOL	*****5171	LUVIN CONSTRUCTION CORP		P O BOX 357 CARLE PLACE NY 11514	03/15/2010	03/15/2015
DOL	DOL	*****9875	M & S STRIPING INC		73 INDUSTRIAL PARK BLVD ELMIRA NY 14901	01/10/2007	01/10/2012
DOL	DOL	*****9688	M K PAINTING INC		4157 SEVENTH STREET WYANDOTT MI 48192	05/14/2007	05/14/2012
DOL	AG		MANNS CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	NYC		MANUEL P TOBIO		150 KINGS STREET BROOKLYN NY 14444	08/19/1998	08/19/2998
DOL	NYC		MANUEL TOBIO		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		MARIO R ECHEVERRIA JR		588 MEACHAM AVE-SUITE 103 ELMONT NY 11003	08/24/2010	08/24/2015
DOL	DOL		MARK LINDSLEY		355 COUNTY ROUTE 8 FULTON NY 13069	08/08/2009	08/14/2014
DOL	DOL		MASONRY CONSTRUCTION INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		MASONRY INDUSTRIES INC		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL	*****6826	MATSOS CONTRACTING CORPORATION		12-14 UTOPIA PARKWAY WHITESTONE NY 11357	02/10/2010	02/10/2015
DOL	AG	*****9970	MAY CONSTRUCTION CO INC		700 SUMMER STREET STAMFORD CT	11/24/2009	11/24/2014
DOL	DOL		MCI CONSTRUCTION INC		975 OLD MEDFORD AVENUE FARMINGDALE NY 11738	08/24/2009	08/24/2014
DOL	DOL	*****5936	MCSI ADVANCED AV SOLUTIONS LLC		2085 BRIGHTON HENRIETTA TOWN LINE ROADROCHESTER NY 14623	11/04/2010	11/04/2015
DOL	DOL	*****4259	MERCANDO CONTRACTING CO INC		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	12/11/2014
DOL	DOL	*****0327	MERCANDO INDUSTRIES LLC		134 MURRAY AVENUE YONKERS NY 10704	12/11/2009	12/11/2014
DOL	DOL	*****0241	MERIT FENCE CO INC		130 OLD ROUTE 6 CARMEL NY 10512	08/06/2003	02/02/2012

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DOL	DOL		MICHAEL L. KRIVITZA	NORTHEAST TECHNOLOGIES	105 PINE STREET - APT 2 EAST ROCHESTER NY 14445	05/14/2007	05/14/2012
DOL	DOL		MICHAEL STEVENS	STEVENS TRUCKING	2458 EAST RIVER ROAD CORTLAND NY 13045	01/23/2008	01/23/2013
DOL	DOL	*****0860	MICHAEL STEVENS	STEVENS TRUCKING	2458 EAST RIVER ROAD CORTLAND NY 13045	01/23/2008	01/23/2013
DOL	DOL		MICHAEL TAYLOR		66 RYBKA ROAD STUYVESANT FALLS NY 12174	03/02/2007	03/02/2012
DOL	DOL	*****5517	MILLENNIUM PAINTING INC		67 WARD ROAD SALT POINT NY 12578	01/21/2011	01/21/2016
DOL	DOL	*****0818	MILLER SANDBLASTING AND PAINTING		121 LINCOLN AVENUE ROCHESTER NY 14611	02/21/2008	02/21/2013
DOL	NYC		MOHAMMAD SELIM		73-12 35TH AVE - APT F63 JACKSON HEIGHTS NY 11372	03/04/2010	03/04/2015
DOL	DA		MOHAMMED SALEEM		768 LYDIG AVENUE BRONX NY 10462	08/18/2009	05/25/2015
DOL	NYC	*****2690	MONDOL CONSTRUCTION INC		11-27 30TH DRIVE LONG ISLAND CITY NY 11102	05/25/2011	05/25/2016
DOL	DOL	*****2357	MUNICIPAL MILLING & MIX-IN-PLACE		9091 ERIE ROAD ANGOLA NY 14006	02/03/2011	02/03/2016
DOL	DOL	*****2251	MURDOUGH DEVELOPMENT CO., INC.		203 KELLY DRIVE EAST AURORA NY 14052	03/26/2008	03/26/2013
DOL	DA	*****9642	MUTUAL OF AMERICAL GENERAL CONSTRUCTION & MANAGEMENT CORP		768 LYDIG AVENUE BRONX NY 10462	08/18/2009	05/25/2015
DOL	DOL		N PICCO AND SONS CONTRACTING INC		154 EAST BOSTON POST ROAD MAMARONECK NY 10543	08/11/2009	08/11/2014
DOL	DOL	*****4133	NASDA ELECTRICAL ENTERPRISES INC		134-25 166 PLACE - #5E JAMAICA NY 11434	08/07/2008	08/07/2013
DOL	DOL	*****9445	NASDA ENTERPRISES INC		134-25 166 PLACE #5E JAMAICA NY 11434	08/07/2008	08/07/2013
DOL	DOL		NAT PICCO		154 EAST BOSTON POST ROAD MAMARONECK NY 10543	08/22/2009	08/22/2014
DOL	DOL	*****2213	NEUSS CONSTRUCTION, INC.		1191 ROUTE 9W - SUITE #C6 MARLBORO NY 12542	09/06/2006	09/06/2011
DOL	DOL		NICK NITIS		3 ALAN B SHEPARD PLACE YONKERS NY 10705	12/11/2006	12/11/2011
DOL	DOL		NICOLE SPELLMAN		2081 JACKSON AVENUE COPIAGUE NY 11726	06/03/2010	06/03/2015
DOL	DOL	*****9890	NOBLE CONSTRUCTION		23960 WHITE ROAD WATERTOWN NY 13601	02/14/2008	02/14/2013
DOL	DOL	*****7771	NORTHEAST TECHNOLOGIES		105 PINE STREET APT. 2 EAST ROCHESTER NY 14445	05/14/2007	05/14/2012
DOL	DOL	*****1833	NORTHEASTERN SUPREME FLOOR CO.,INC		66 BENEDICT STREET CASTLETON NY 12033	03/02/2007	03/02/2012
DOL	DOL	*****7041	NYCOM SERVICES CORP		80-12 ASTORIA BOULEVARD EAST ELMHURST NY 11370	11/22/2008	11/22/2013
DOL	DOL	*****0797	O GLOBO CONSTRUCTION CORP		85-06 60TH AVENUE ELMHURST NY 11373	11/21/2008	11/21/2013
DOL	DOL	*****1803	OMNI CONTRACTING COMPANY, INC.		3 ALAN B. SHEPARD PLACE YONKERS NY 10705	12/11/2006	12/11/2011
DOL	NYC	*****6176	ORSOGRIL NEW YORK INC		25 CLIFF STREET NEW ROCHELLE NY 10801	06/15/2010	06/15/2015
DOL	NYC	*****3855	OT & T INC		36-28 23RD STREET LONG ISLAND CITY NY 11106	01/15/2008	05/14/2013
DOL	NYC	*****9833	PARADISE CONSTRUCTION CORP		6814 8TH AVENUE BROOKLYN NY 11220	12/03/2007	12/03/2012
DOL	DOL	*****3039	PARAGON PLATE GLASS, INC.		210 FACTORY STREET WATERTOWN NY 13601	11/07/2006	11/07/2011
DOL	DOL	*****5226	PASCARELLA & SONS		459 EVERDALE AVENUE WEST ISLIP NY 11759	01/10/2010	01/10/2015
DOL	DOL		PATRICK BURNS		19 E. CAYUGA STREET OSWEGO NY 13126	05/15/2008	05/15/2013
DOL	DOL		PATRICK SHAUGHNESSY		88 REDWOOD DRIVE ROCHESTER NY 14617	05/16/2008	05/16/2013
DOL	DOL		PEDRO RINCON		131 MELROSE STREET BROOKLYN NY 11206	03/02/2010	03/02/2015
DOL	AG		PETER GOUZOS		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		PETER J LANDI		249 MAIN STREET EASTCHESTER NY 10709	10/05/2009	10/05/2014
DOL	DOL	*****7229	PETER J LANDI INC		249 MAIN STREET EASTCHESTER NY 10709	10/05/2009	10/05/2014

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DOL	DOL	*****1136	PHOENIX ELECTRICIANS COMPANY INC		540 BROADWAY P O BOX 22222ALBANY NY 12201	03/09/2010	03/09/2015
DOL	DOL	*****5419	PINE VALLEY LANDSCAPE CORP		RR 1, BOX 285-B BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL		PRECISION DEVELOPMENT CORP		115 LEWIS STREET YONKERS NY 10703	05/12/2009	05/12/2014
DOL	DOL	*****9359	PRECISION STEEL ERECTORS INC		P O BOX 949 BREWERTON NY 13029	09/02/2008	09/02/2013
DOL	DOL	*****6895	PROLINE CONCRETE OF WNY INC		3090 SHIRLEY ROAD NORTH COLLINS NY 14111	04/19/2011	04/19/2016
DOL	DOL	*****2326	PUTMAN CONSTRUCTION COMPANY OF WESTERN NY		29 PHYLLIS AVENUE BUFFALO NY 14215	09/03/2008	09/03/2013
DOL	DOL	*****7438	R & H COMMERCIAL FLOORING, INC.		102 WILLOW AVENUE WATKINS GLEN NY 14891	06/20/2007	06/20/2012
DOL	DOL	*****1596	R & T SUPREME SPORTS FLOORING, LLC		66 RYBKA ROAD STUYVESANT FALLS NY 12174	03/02/2007	03/02/2012
DOL	DOL	*****1629	R S CONSTRUCTION COMPANY LLC		571 MILES SQUARE ROAD YONKERS NY 10701	04/04/2007	04/04/2012
DOL	AG	*****2626	RAINBOW RENOVATIONS, INC.		35-44 CRESCENT STREET LONG ISLAND CITY NY 11106	08/03/2006	08/03/2011
DOL	DOL		RAMON BONILLA		938 E 232ND STREET #2 BRONX NY 10466	05/25/2010	05/25/2015
DOL	DOL	*****7294	REDWOOD FLOORING, INC.		88 REDWOOD DRIVE ROCHESTER NY 14617	05/16/2008	05/16/2013
DOL	NYC	*****6978	RISINGTECH INC		243-03 137TH AVENUE ROSEDALE NY 11422	03/25/2010	03/25/2015
DOL	DOL		ROBBYE BISSESAR		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	01/11/2003	01/11/3003
DOL	DOL		ROBERT DIMARSICO		1233 WALT WHITMAN ROAD MELVILLE NY 11747	04/29/2008	04/29/2013
DOL	NYC		ROBERT FICARELLI		120-30 28TH AVENUE FLUSHING NY 11354	01/14/2011	01/14/2016
DOL	DOL		ROBERT O'HANLON		635 MIDLAND AVENUE GARFIELD NJ 07026	07/09/2007	07/09/2012
DOL	DOL		ROBERT STEVENSON		571 MILES SQUARE ROAD YONKERS NY 10701	04/04/2007	04/04/2012
DOL	DOL	*****1721	ROBERTS CONSTRUCTION OF UPSTATE NEW YORK INC		5 SANGER AVENUE NEW HARTFORD NY 13413	01/28/2009	01/28/2014
DOL	DOL	*****3467	ROCKERS AND NOCKERS LLC		207 RIVERVIEW ROAD REXFORD NY 12148	10/23/2007	10/23/2012
DOL	DOL	*****9025	ROJO MECHANICAL LLC		938 E 232ND STREET #2 BRONX NY 10466	05/25/2010	05/25/2015
DOL	DOL		RONALD R SAVOY	C/O CNY MECHANICAL ASSOCIATES INC	P O BOX 250 EAST SYRACUSE NY 13057	11/06/2008	11/06/2013
DOL	DOL		ROSARIO CARRUBBA		5755 NEWHOUSE ROAD EAST AMHERST NY 14051	10/10/2007	10/10/2012
DOL	DOL	*****5905	ROSE PAINTING CORP		222 GAINSBORG AVENUE EAST WEST HARRISON NY 10604	05/10/2010	05/10/2015
DOL	NYC		ROSS J HOLLAND		120-30 28TH AVENUE FLUSHING NY 11354	01/14/2011	01/14/2016
DOL	DOL		RUDOLPH NEUSS		8 FAR HORIZONS DRIVE NEWBURGH NY 12550	09/06/2006	09/06/2011
DOL	DOL		RUSSELL TUPPER		8346 BREWERTON ROAD CICERO NY 13039	07/06/2007	07/06/2012
DOL	DOL		RUTH H SUTTON		939 GROVESIDE ROAD BUSKIRK NY 12028	08/27/2008	08/27/2013
DOL	DOL		S & M CONTRACTING LLC		30 MIDLAND AVENUE WALLINGTON NJ 07057	11/05/2010	11/05/2015
DOL	DOL	*****2585	S B WATERPROOFING INC		SUITE #3R 2167 CONEY ISLAND AVENUEBROOKLYN NY 11223	11/04/2009	11/04/2014
DOL	DOL	*****9066	SAMAR PAINTING & DECORATING INC		137 E MAIN STREET ELMSFORD NY 10523	12/01/2008	12/01/2013
DOL	NYC	*****0987	SCHWARTZ ELECTRIC CONTRACTORS INC		89 WALKER STREET NEW YORK NY 10013	01/04/2008	01/04/2013
DOL	DOL	*****6348	SEABURY ENTERPRISES LLC		22562 SEA BASS DRIVE BOCA RATON FL 33428	10/10/2007	10/10/2012
DOL	NYC	*****4020	SERVI-TEK ELEVATOR CORP		2546 EAST TREMONT AVENUE BRONX NY 10461	07/16/2009	07/16/2014
DOL	NYC	*****8252	SEVERN TRENT ENVIRONMENTAL SERVICES INC		16337 PARK ROW HOUSTON TX 77084	06/12/2007	06/12/2012

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DOL	NYC		SHAFIQUL ISLAM		11-27 30TH DRIVE LONG ISLAND CITY NY 11102	05/25/2011	05/25/2016
DOL	DOL		SHAIKF YOUSUF		C/O INDUS GENERAL CONST 33-04 91ST STREETJACKSON HEIGHTS NY 11372	04/28/2010	04/28/2015
DOL	DOL	*****0256	SIERRA ERECTORS INC		79 MADISON AVE - FL 17 NEW YORK NY 10016	04/16/2009	04/16/2014
DOL	DOL	*****0415	SIGNAL CONSTRUCTION LLC		199 GRIDER STREET BUFFALO NY 14215	11/14/2006	02/25/2015
DOL	DOL	*****8469	SIGNATURE PAVING AND SEALCOATING		P O BOX 772 JAMESTOWN NY 14701	08/13/2010	08/13/2015
DOL	DOL	*****8469	SIGNATURE SEALCOATING AND STRIPING SERVICE		345 LIVINGSTON AVENUE P O BOX 772JAMESTOWN NY 14702	04/04/2007	08/13/2015
DOL	DOL	*****9397	SKY COMMUNICATIONS, INC.		PO BOX 278 DEWITT NY 13214	02/20/2007	02/20/2012
DOL	AG		SN CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	AG	*****7480	SNA CONTRACTING CORP		131 47TH STREET BROOKLYN NY 11232	01/26/2007	01/25/2012
DOL	AG	*****2738	SNA CONTRACTING CORP.		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		SPASOJE DOBRIC		61 WILLET STREET - SUITE PASSAIC NJ 07055	07/09/2010	07/09/2015
DOL	DOL	*****0918	SPECTRUM CONTRACTING GROUP INC		875 THIRD AVENUE NEW YORK NY 10022	12/11/2006	12/11/2011
DOL	AG	*****1355	SPIRIDON ANTHOULIS		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	AG		STACEY GOUZOS		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL	*****3496	STAR INTERNATIONAL INC		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	08/11/2003	08/11/3003
DOL	NYC	*****6650	START ELEVATOR CONSTRUCTION, INC.		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	NYC	*****3896	START ELEVATOR MAINTENANCE, INC.		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	NYC	*****1216	START ELEVATOR REPAIR, INC.		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	NYC	*****2101	START ELEVATOR, INC.		4350 BULLARD AVENUE BRONX NY 10466	01/28/2008	01/28/2013
DOL	DOL		STEED GENERAL CONTRACTORS INC		1445 COMMERCE AVENUE BRONX NY 10461	10/09/2007	10/09/2012
DOL	DOL		STEFANIE MCKENNA		30 MIDLAND AVENUE WALLINGTON NJ 07057	11/05/2010	11/05/2015
DOL	DOL		STEPHEN BALZER		34-08 PARKWAY DRIVE BALDWIN NY 11510	07/01/2008	07/01/2013
DOL	DOL		STEVE PAPASTEFANOU		1445 COMMERCE AVENUE BRONX NY 10461	10/09/2007	10/09/2012
DOL	DOL	*****4081	STS CONSTRUCTION OF WNY		893 EAGLE STREET BUFFALO NY 14210	06/09/2009	06/09/2014
DOL	DOL	*****5966	SUPREME SPORT SURFACES, INC.		66 BENEDICT STREET CASTLETON NY 12033	03/02/2007	03/02/2012
DOL	DOL	*****2036	SURACI ENTERPRISES INC		364 BLEAKER ROAD ROCHESTER NY 14609	10/25/2007	10/25/2012
DOL	AG		TAO GENERAL CONTRACTORS INC		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		THEODORE F FAULKS		18 FIREWEED TRAIL HILTON NY 14468	06/10/2008	06/10/2013
DOL	DOL		THOMAS ASCHMONEIT		79 MADISON AVENUE - FL 17 NEW YORK NY 10016	04/16/2009	04/16/2014
DOL	DOL		THOMAS DEMARTINO		158-11 96TH STREET HOWARD BEACH NY 11414	06/25/2009	06/25/2014
DOL	DOL		THOMAS E. MOONEY		164 WINSLOW STREET WATERTOWN NY 13601	11/07/2006	11/07/2011
DOL	DOL		THOMAS GORMALLY		250 KNEELAND AVENUE YONKERS NY 10705	07/09/2007	07/09/2012
DOL	DOL		TIMOTHY P SUCH		893 EAGLE STREET BUFFALO NY 14210	06/09/2009	06/09/2014
DOL	DOL		TNT DEMOLITION AND ENVIRONMENTAL INC		355 COUNTY ROUTE 8 FULTON NY 13069	08/08/2009	08/19/2014
DOL	DOL	*****3315	TOTAL DOOR SUPPLY & INSTALLATION INC		16 JOY DRIVE NEW HYDE PPARK NY 11040	01/05/2010	01/05/2015
DOL	DOL	*****3315	TOTAL DOOR SUPPLY & INSTALLATION INC		16 JOY DRIVE NEW HYDE PPARK NY 11040	01/05/2010	01/05/2015
DOL	DOL	*****2357	TRAC CONSTRUCTION INC	MUNICIPAL MILLING & MIX -IN- PLACE	9091 ERIE ROAD ANGOLA NY 14006	02/03/2011	02/03/2016

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DOL	DOL		TRI STATE TRUCKING INC		140 ARMSTRONG AVENUE SYRACUSE NY 13209	10/21/2009	10/21/2014
DOL	NYC	*****5184	UDDIN USA CORP		663 DEGRAW STREET BROOKLYN NY 11217	05/17/2007	05/17/2012
DOL	DOL		ULIANO AND SONS INC		22 GRIFFEN COURT MILLER PLACE NY 11746	10/26/2010	10/26/2015
DOL	DOL	*****8663	URBAN-SUBURBAN RECREATION INC		3 LUCON DRIVE DEER PARK NY 11728	06/20/2007	06/20/2012
DOL	DOL	*****0854	VANESSA CONSTRUCTION INC		588 MEACHAM AVE/STE 103 ELMONT NY 11003	08/24/2010	08/24/2015
DOL	DA		VASILIOS TSIMITRAS		235 91ST STREET BROOKLYN NY 11209	11/27/2006	11/27/2011
DOL	DOL		VIRGINIA L CAPONE		137 E MAIN STREET ELMSFORD NY 10523	12/01/2008	12/01/2013
DOL	NYC	*****9936	VISHAL CONSTRUCTION INC		73-12 35TH AVE - APT F63 JACKSON HEIGHTS NY 11272	03/04/2010	03/04/2015
DOL	DOL	*****0329	WET PAINT CO. OF OSWEGO, INC		19 E. CAYUGA STREET OSWEGO NY 13126	05/15/2008	05/15/2013
DOL	DOL		WHITE PLAINS CARPENTRY CORP		220 FERRIS AVENUE WHITE PLAINS NY 10603	12/04/2009	12/04/2014
DOL	DOL		WILLIAM PUTNAM		50 RIDGE ROAD BUFFALO NY 14215	09/03/2008	09/03/2013
DOL	DOL		WILLIAM SCRIVENS		30 MIDLAND AVENUE WALLINGTON NJ 07057	11/05/2010	11/05/2015
DOL	DA		WILLIAM TSIMITRAS		235 91ST STREET BROOKLYN NY 11209	11/27/2006	11/27/2011
DOL	DOL		WILLIAM W FARMER JR		112 HUDSON AVENUE ROCHESTER NY 14605	10/19/2009	10/19/2014
DOL	NYC	*****5498	XAVIER CONTRACTING LLC		68 GAYLORD ROAD SCARSDALE NY 10583	02/16/2011	02/16/2015
DOL	AG		YANG GENERAL CONTRACTING LTD		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	AG	*****0288	YIN CONSTRUCTION LTD		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	AG		YULY ARONSON		700 SUMMER STREET STAMFORD CT	11/24/2009	11/24/2014
DOL	AG	*****1564	ZARBEN GENERAL CONSTRUCTION INC		131 47TH STREET BROOKLYN NY 11232	01/25/2007	01/25/2012
DOL	DOL		ZEPHENIAH DAVIS		2068 ANTHONY AVENUE BRONX NY 10457	12/26/2007	12/26/2012

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AGENCY	Regional Office	SSN/FEIN	EMPLOYER NAME	EMPLOYER DBA NAME	ADDRESS	DEBARMENT START DATE	DEBARMENT END DATE
DOL	DOL		EMMANUEL ODIGIE		837 OUTLOOK AVENUE WEST BABYLON NY 11704	09/10/2010	09/10/2015
DOL	NYC	*****8356	JETSTREAM MAINTENANCE CORP		7156 ROCKAWAY BLVD WOODHAVEN NY 11421	04/28/2011	04/28/2016
DOL	DOL	*****0817	NORTH EAST SECURITY-GUARD SERVICE INC		837 OUTLOOK AVENUE WEST BABYLON NY 11704	09/10/2010	09/20/2015
DOL	NYC		SAE KEON WON		7156 ROCKAWAY BLVD WOODHAVEN NY 11421	04/28/2011	04/28/2016
DOL	NYC	*****8212	VELOX CLEANING CORP		32 ESSEX LANE WILLINGBORO NJ 08046	07/09/2010	07/09/2015

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GEOTECHNICAL EVALUATION FOR OLD MILITARY ROAD RECONSTRUCTION TOWN OF NORTH ELBA, NEW YORK FILE NO. FDE-06-98

PREPARED FOR:
Essex County DPW
8053 Route 9
Elizabethtown, New York 12932

PREPARED BY:
Dente Engineering, P.C.
594 Broadway
Watervliet, New York 12189

August 2006

www.dente-engineering.com

Important Information About Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

The following information is provided to help you manage your risks.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

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APPENDIX A Site Location Maps

APPENDIX B Subsurface Boring Logs

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GEOTECHNICAL EVALUATION FOR OLD MILITARY ROAD RECONSTRUCTION TOWN OF NORTH ELBA, NEW YORK FILE NO. FDE-06-098

I. INTRODUCTION

This report presents the results of our Geotechnical Evaluation completed for the planned reconstruction of Old Military Road (Essex County Route 35) in the Town of North Elba, New York. Our services have been provided in general accord with our term agreement and included:

- Stakeout, utility clearance and completion of 14 conventional exploratory test borings along the road alignment.
- Evaluation of the data collected and the preparation of this report which presents the information with respect to pavement design requested by Foit-Albert Asociates in their letter to the Essex County DPW dated April 18, 2006.

This report and the recommendations contained within it were developed for specific application to the site and construction planned, as we currently understand it. Corrections in our understanding, changes in the road alignment, grades, etc. should be brought to our attention so that we may evaluate their effect, if any, upon the recommendations offered.

A sheet entitled *"Important Information about your Geotechnical Engineering Report"* prepared by the Association of Engineering Firms Practicing in the Geosciences is presented following the title page of this report. This sheet should never be separated from this report and be carefully reviewed as it sets the only context within which this report should be used.

This report was prepared for informational purposes only and should not be considered part of the contract documents. It should be made available to interested parties in its entirety only. Should the data contained in this report not be adequate for the contractor's purposes, the contractor may make their own investigations, tests and analyses for use in bid preparation.

II. PROJECT AND SITE DESCRIPTION

The project entails reconstruction of Old Military Road (Essex County Route 35) which extends from NYS Route 86 southeast 6.7 kilometers to NYS Route 73 in the Town of North Elba, New York. Portions of the USGS topographic maps for the Saranac Lake and Lake Placid quadrangles are provided in Appendix A which highlight the section of Old Military Road which is the subject of this report.

Based upon the Alternative 2 - General Profiles for the project prepared by Foit-Albert Associates, it is our understanding that the reconstruction will generally require cut and fill work less than one meter. The only exception occurs where the road will be realigned and a new bridge constructed over the Chubb River where one to two meter fills will be required for the approaches to the bridge. Our Geotechnical Evaluation for the bridge replacement was submitted in July 2006.

III. SUBSURFACE CONDITIONS

The subsurface conditions were explored through the completion of 14 exploratory test borings along the existing road at the approximate locations depicted on the Soil Boring Location Plans prepared by Foit-Albert Associates. The boring locations were established in the field by our personnel relative to existing site features shown on the plans. We understand that the final boring locations will be surveyed by Foit-Albert Associates. All borings except two were located in the existing pavement. The two borings, DAH-5 and DAH-8, were located in the unpaved shoulder of the road.

A standard rotary drill rig equipped with hollow stem augers was used to complete the borings. As the augers were advanced, the overburden soils were sampled and their relative density determined through the procedures of ASTM D-1586. Subsurface logs were prepared for the test borings based on a visual classification of the recovered soil samples by a Geotechnical Specialist. The logs are presented in Appendix D, together with sheets which explain the terms used in their preparation.

The Subsurface Logs should be reviewed for the specific conditions encountered at the investigated locations. It should be noted that conditions are only known at the investigated locations and at the depths sampled, and that conditions at locations and depths other than those investigated may or may not be similar. It should also be understood that conditions may change with time and be seasonally influenced.

Subsurface Profile

As tabulated below, the borings first penetrated through a pavement section consisting of about 5 to 12 inches (12 to 30 centimeters) of asphalt followed by a sand and gravel base about 6 to 10 inches (15 to 25 centimeters) thick. In general, the subgrade soils consisted of fill and/or indigeneous materials comprised of sand or sand and gravel with trace to little silt and occasional cobbles and boulders. The gradation of the sand varied between fine and fine to coarse size particles as noted on the logs. These soils were generally of a firm to very compact relative density with occasional thin loose layers.

The only noticeable exceptions to the general conditions occurred in three locations. In test boring DAH-6, the native soils below a depth of 6 feet (1.8 meters) consisted of alternating layers of loose to firm fine sand and/or silt. In boring DAH-10, the fill materials between depths of about 3 to8 feet (1 to 2.4 meters) were relatively loose to very loose and consisted of silt with trace organics over fine to medium sand with some silt, trace organics and concrete. Finally, in boring DAH-12 a thin layer of loose silt and fine sand with some gravel and trace wood was present beneath fill materials between depths of about 4 and 5 feet (1.2 and 1.5 meters) below grade.

SUMMARY OF EXISTING PAVEMENT SECTIONS
Old Military Road Reconstruction

Boring No.	Approx. Station (meters)	Asphalt Thickness (inches)	Sand & Gravel Base Thickness (inches)
DAH-1	1 + 297	5.0	8.0
DAH-2	1 + 338	5.5	10.0
DAH-3	1 + 643	5.0	10.0
DAH-4	2 + 061	8.5	10.0
DAH-5	2 + 757	Road Shoulder	Road Shoulder
DAH-6	2 + 957	11.5	10.0
DAH-7	3 + 188	6.0	6.0
DAH-8	?	Road Shoulder	Road Shoulder
DAH-9	4 + 101	7.5	8.0
DAH-10	4 + 217	7.5	8.0
DAH-11	?	7.5	8.0
DAH-12	4 + 901	7.0	8.0
DAH-13	5 + 952	5.5	8.0
DAH-14	6 + 377	6.0	8.0

Note: The Stations tabulated above are approximate and should be confirmed by survey.

One half of the test borings were ended at their planned maximum depth of 10 feet (3 meters) below grade. The remaining borings were terminated when sample spoon refusal was met at depths of 7.6 to 9.7 feet (2.3 to 2.95 meters) below grade.

Groundwater Conditions

No measurable groundwater was present in the augers upon completion of drilling and the recovered soil samples were moist, not wet, in all boring locations except two. On this basis, it appears that groundwater was below the depths explored in the majority of the test boring locations.

In boring DAH-9, groundwater was measured 9.0 feet (2.74 meters) below grade at completion of drilling and the recovered soil samples became wet about 7 feet (2.13 meters) below grade. Similar conditions were encountered in boring DAH-10. Based on these observations, it appears groundwater was present in these locations between depths of about 7 to 9 feet (2.13 to 2.74 meters) below grade at the time of investigation.

No groundwater or wet soil samples were encountered in test boring DAH-1, however the soils were mottled at a depth of about 8 feet (2.44 meters) which may indicate the seasonal high groundwater level at this location. Mottling of the soils was not readily apparent in the remaining test borings.

IV. GEOTECHNICAL RECOMMENDATIONS

Based on our evaluation of the conditions disclosed through the site exploration, the following comments and recommendations were prepared to address the items requested by Foit-Albert Associates in their letter to the Essex County:

Condition, Makeup and Depth of Existing Pavement Section

As previously discussed, the pavement section generally consists of about 5 to 12 inches (12 to 30 centimeters) of asphalt over a 6 to 10 inch (15 to 25 centimeters) thick base of sand and gravel. The actual conditions at each boring location are provided on the individual subsurface logs and are tabulated above.

Depth of Water Table

Groundwater was not present within the depths explored at the time of investigation in all borings except DAH-9 and DAH-10. In these locations, it appeared that groundwater was present about 7 to 9 feet (2.13 to 2.74 meters) below grade at the time of investigation. Evidence of a seasonal high groundwater level was noted in boring DAH-1 at a depth of about 8 feet (2.44 meters) below grade. Evidence of seasonal high groundwater levels in the remaining borings was not readily apparent to us based on our observation of the recovered soil samples. It should be understood that the groundwater levels may fluctuate with seasonal variations in precipitation and runoff.

Depth of Rock Under Pavement

One-half of the test borings penetrated to their planned maximum depth of 10 feet (3 meters) without finding bedrock. The remaining borings were terminated when sample spoon refusal was met at depths of 7.6 to 9.7 feet (2.3 to 2.95 meters) below grade. No coring was performed to determined whether the refusal was due to the presence of boulders or bedrock. We note that boulders were present in some of the borings locations and should be anticipated in site excavations.

Suitability of the Subgrade Material

In general, the subgrade soils beneath the pavement sections are comprised primarily of sand or sand and gravel which is relatively firm and suitable for pavement reconstruction. In some locations, DAH-10 and DAH-12, loose to very loose soil layers were encountered

about 3 to 4 feet (0.9 to1.2 meters) below grade. The suitability of these areas and others which may be present between the boring locations can best be determined by a thorough proof-rolling of the subgrade at the time of construction.

A vibratory drum roller with a static weight of at least ten tons should be used for the proof-rolling. The roller should complete at least 3 passes over the subgrade surface. Any soft areas should be investigated to determine the cause and stabilized accordingly. Based solely on the widely spaced test borings, no over-excavation of unsuitable materials is recommended at this time.

Subgrade Resilient Modulus

Assuming the subgrade surface is proof-rolled and stabilized as previously recommended, the effective subgrade resilient modulus may be assumed equal to 8000 pounds per square inch (55 Mpa). This modulus was selected for a silty fine sand subgrade which was found in several of the borings, and may be present between the borings where sand and gravel was present. The use of a higher modulus, which is typical for a sand and gravel subgrade, is not recommended unless more closely spaced explorations are made to confirm the conditions between the existing boring locations.

Permanent Cut and Fill Slopes

Permanent cut and fill slopes without the need for stabilization should be inclined no steeper than one vertical on three horizontal. A thick vegetative growth should be established on the slopes to inhibit erosion.

Construction Monitoring

Dente Engineering should be retained to observe proof-compaction of the pavement subgrades to validate the actual site conditions are similar to those assumed for development of the recommendations contained in this report.

V. CLOSURE

This report was prepared for specific application to planning for reconstruction of Old Military Road as discussed herein. We request the opportunity to review plans and specifications applicable to this report to assure our recommendations have been interpreted as intended. This report was prepared using Geotechnical Engineering methods and practices generally in use at the time of its preparation. No other warranty, expressed or implied, is made.

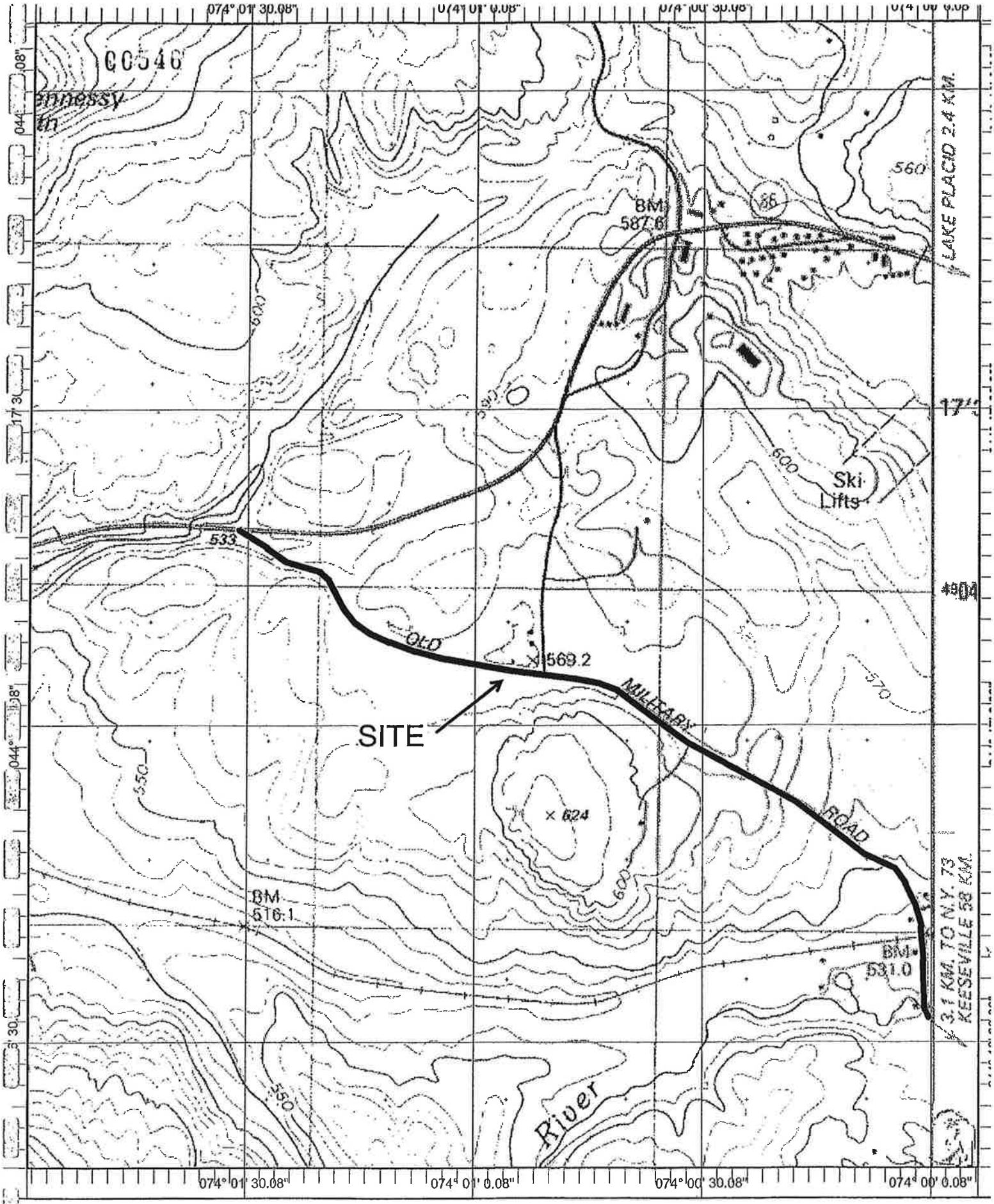
We appreciate the opportunity to be of service. Should questions arise or if we may be of any other service, please contact us at your convenience.

Yours Truly,
Dente Engineering, P.C.

Edward C. Gravelle, P.E.
Vice President

Fred A. Dente, P.E.
President

APPENDIX A



Name: SARANAC LAKE
Date: 7/5/106
Scale: 1 inch equals 1142 feet

Location: 044° 17' 12.3" N 074° 00' 56.2" W
Caption: OLD MILITARY ROAD (CR 35), MAP 1
NORTH ELBA, NY 1979
FDE-06-98

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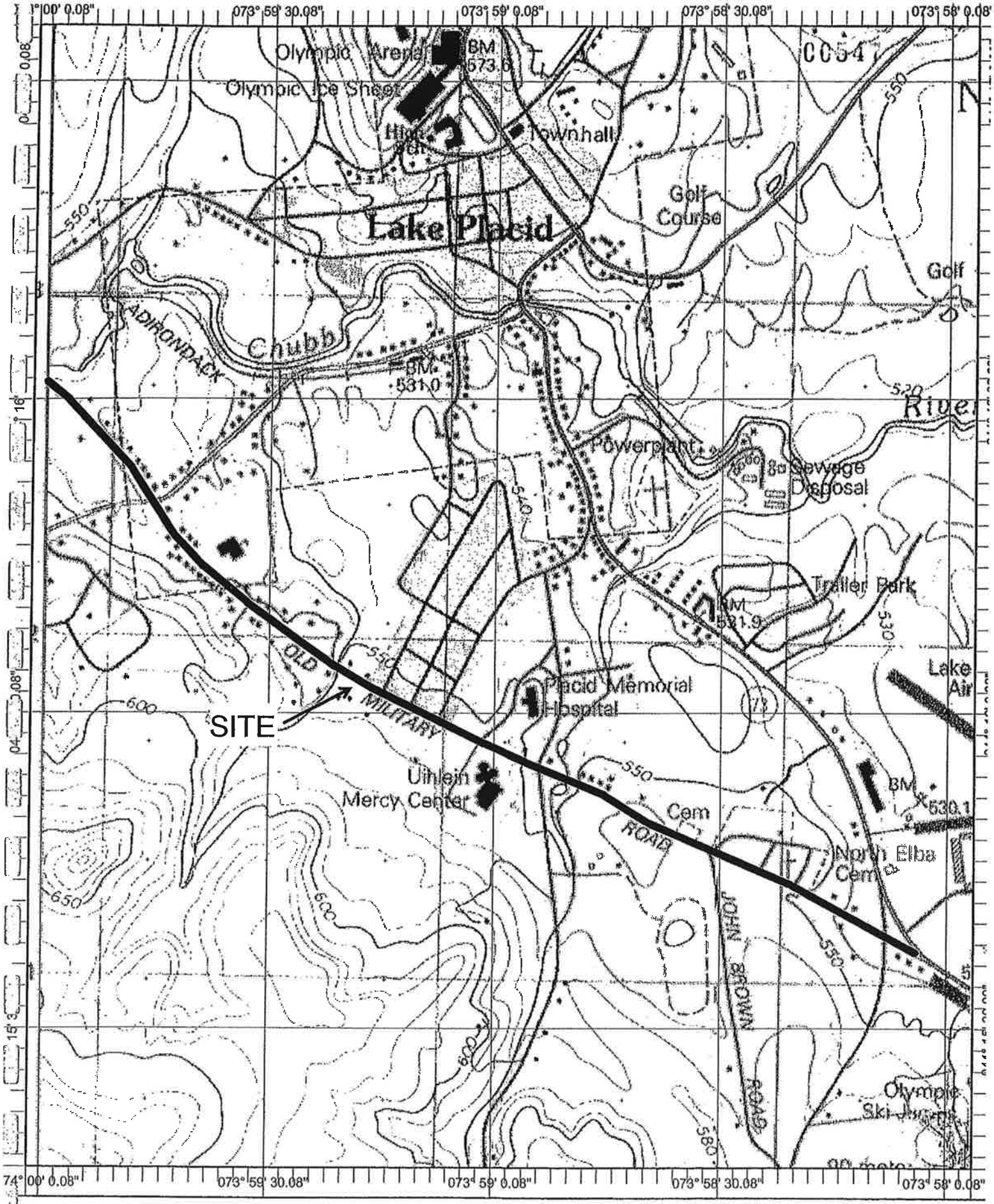

Name: LAKE PLACID
Date: 7/5/106
Scale: 1 inch equals 1142 feet

Location: 044° 16' 11.1" N 073° 58' 59.1" W
Caption: OLD MILITARY ROAD (CR 35), MAP 2
NORTH ELBA, NY 1979
FDE-06-98

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APPENDIX B

INTERPRETATION OF SUBSURFACE LOGS

The Subsurface Logs present observations and the results of tests performed in the field by the Driller, Technicians, Geologists and Geotechnical Engineers as noted. Soil/Rock Classifications are made visually, unless otherwise noted, on a portion of the materials recovered through the sampling process and may not necessarily be representative of the materials between sampling intervals or locations.

The following defines some of the terms utilized in the preparation of the Subsurface Logs.

SOIL CLASSIFICATIONS

Soil Classifications are visual descriptions on the basis of the Unified Soil Classification ASTM D-2487 and USBR, 1973 with additional comments by weight of constituents by BUHRMASTER. The soil density or consistency is based on the penetration resistance determined by ASTM METHOD D1586. Soil Moisture of the recovered materials is described as DRY, MOIST, WET or SATURATED.

SIZE DESCRIPTION		RELATIVE DENSITY/CONSISTENCY (basis ASTM D1586)			
SOIL TYPE	PARTICLE SIZE	GRANULAR SOIL		COHESIVE SOIL	
BOULDER	> 12	DENSITY	BLOWS/FT.	CONSISTENCY	BLOWS/FT.
COBBLE	3" - 12"	LOOSE	< 10	VERY SOFT	< 3
GRAVEL-COARSE	3" - 3/4"	FIRM	11 - 30	SOFT	4 - 5
GRAVEL - FINE	3/4" - #4	COMPACT	31 - 50	MEDIUM	6 - 15
SAND - COARSE	#4 - #10	VERY COMPACT	50 +	STIFF	16 - 25
SAND - MEDIUM	#10 - #40			HARD	25 +
SAND - FINE	#40 - #200				
SILT/NONPLASTIC	< #200				
CLAY/PLASTIC	< #200				

SOIL STRUCTURE		RELATIVE PROPORTION OF SOIL TYPES	
STRUCTURE	DESCRIPTION	DESCRIPTION	% OF SAMPLE BY WEIGHT
LAYER	6" THICK OR GREATER	AND	35 - 50
SEAM	6" THICK OR LESS	SOME	20 - 35
PARTING	LESS THAN 1/4" THICK	LITTLE	10 - 20
VARVED	UNIFORM HORIZONTAL PARTINGS OR SEAMS	TRACE	LESS THAN 10

Note that the classification of soils or soil like materials is subject to the limitations imposed by the size of the sampler, the size of the sample and its degree of disturbance and moisture.

ROCK CLASSIFICATIONS

Rock Classifications are visual descriptions on the basis of the Driller's, Technician's, Geologist's or Geotechnical Engineer's observations of the coring activity and the recovered samples applying the following classifications.

CLASSIFICATION TERM	DESCRIPTION
VERY HARD	NOT SCRATCHED BY KNIFE
HARD	SCRATCHED WITH DIFFICULTY
MEDIUM HARD	SCRATCHED EASILY
SOFT	SCRATCHED WITH FINGERNAIL
VERY WEATHERED	DISINTEGRATED WITH NUMEROUS SOIL SEAM
WEATHERED	SLIGHT DISINTEGRATION, STAINING, NO SEAMS
SOUND	NO EVIDENCE OF ABOVE
MASSIVE	ROCK LAYER GREATER THAN 36" THICK
THICK BEDDED	ROCK LAYER 12" - 36"
BEDDED	ROCK LAYER 4" - 12"
THIN BEDDED	ROCK LAYER 1" - 4"
LAMINATED	ROCK LAYER LESS THAN 1"
FRACTURES	NATURAL BREAKS AT SOME ANGLE TO BEDS

Core sample recovery is expressed as percent recovered of total sampled. The ROCK QUALITY DESIGNATION (RQD) is the total length of core sample pieces exceeding 4" length divided by the total core sample length for N size cored.

GENERAL

- Soil and Rock classifications are made visually on samples recovered. The presence of Gravel, Cobbles and Boulders will influence sample recovery classification density/consistency determination.
- Groundwater, if encountered, was measured and its depth recorded at the time and under the conditions as noted.
- Topsoil or pavements, if present, were measured and recorded at the time and under the conditions as noted.
- Stratification Lines are approximate boundaries between soil types. These transitions may be gradual or distinct and are approximated.

DENTE ENGINEERING, P.C. — SUBSURFACE LOG DAH- 1

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-14-06	FINISH: 6-14-06
LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:**		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 5" ASPHALT / ± 8" SAND AND GRAVEL
	1	5	10				Brown to Light Brown F-C SAND and GRAVEL,
				15	23	25	trace silt, Mild petroleum odor noted **(MOIST, FIRM)**
	2	15	17				Light Brown F-M SAND, Little Coarse Sand and
5'				15	13	32	Gravel, trace silt, boulder noted
	3	9	12				Grades Little Gravel
				12	9	24	
	4	8	16				Similar with Little Grey Mottling
				37	64	53	
10'	5	50/.3				REF	NO RECOVERY **(MOIST, FIRM TO COMPACT)**
							End of Boring at 9.3' depth with split spoon refusal.
							No measurable groundwater inside augers upon
							completion.
15'							
20'							
25'							
30'							

0055

DENTE ENGINEERING, P.C.

SUBSURFACE LOG DAH- 2

PROJECT: Old Military Road - CR 35

DATE START: 6-14-06 FINISH: 6-14-06

LOCATION: North Elba, New York

METHODS: 2 1/4" HSAC with ASTM D 1586

CLIENT: Essex County DPW

JOB NUMBER: FDE-06-98

SURFACE ELEVATION:

DRILL TYPE: CME 55

CLASSIFICATION: O. Burns

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 5.5" ASPHALT / ± 10" SAND AND GRAVEL
	1	12	35				**POSSIBLE FILL:** Light Brown / Grey F-C SAND,
				50/.2		85	Some Gravel, trace silt, boulders noted **(MOIST)**
	2	15	17				Grades Little Silt
				24	50/.2	41	
5'	3	10	20				Grades trace gravel
				30	36	50	
	4	51	50/.3				Grades Some Gravel
						50	**(MOIST, COMPACT TO VERY COMPACT)**
10'							End of Boring at 7.8' depth with split spoon refusal. No measurable groundwater in augers upon completion.
15'							
20'							
25'							
30'							

DENTE ENGINEERING, P.C. — SUBSURFACE LOG DAH- 3

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-14-06	FINISH: 6-14-06
LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 575.0 *m*		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 5" ASPHALT / ± 10" SAND AND GRAVEL
	1	18	14				**POSSIBLE FILL:** Brown Fine SAND, Some Coarse
				20	24	34	Sand, Little Gravel, trace silt **(MOIST)**
	2	25	25				Grades Light Brown F-M SAND, Some Coarse Sand,
				33	55	58	Little Gravel, trace silt
5'	3	35	27				Grades trace coarse sand and gravel
				28	25	55	
	4	30	48				Grades Some Coarse Sand and Gravel
				50/.3		98	**(MOIST, FIRM TO VERY COMPACT)**
10'							End of Boring at 8.3' depth with split spoon refusal.
							No measurable groundwater in augers upon
							completion.
15'							
20'							
25'							
30'							

C0554

DENTE ENGINEERING, P.C.	SUBSURFACE LOG DAH- 4

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-14-06	FINISH: 6-14-06

LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586
CLIENT: Essex County DPW	
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 571.5' m
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 8.5" ASPHALT / ± 10" SAND AND GRAVEL
	1	17	20				Brown to Light Brown Fine SAND, Little Gravel, trace
				22	14	42	silt **(MOIST)**
	2	9	10				Grades Brown, trace coarse sand
				10	20	20	
5'	3	15	15				Grade Brown Fine SAND, trace gravel
				20	24	35	
	4	28	24				
				27	23	51	
	5	13	16			16	**(MOIST, FIRM, COMPACT AND VERY COMPACT)**
10'							End of Boring at 10.0' depth.
							No measurable groundwater inside augers upon completion.
15'							
20'							
25'							
30'							

DENTE ENGINEERING, P.C. — SUBSURFACE LOG DAH- 5

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-13-06	FINISH: 6-13-06
LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 583.0'm		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	7	5				Brown / Dark Brown F-C SAND, Some Silt, Little Gravel
				7	9	12	
	2	17	16				Grades Brown Fine SAND, Little Coarse Sand, Gravel and Silt
				16	13	32	
	3	10	15				Grades Some Coarse Sand and Gravel
5'				30	50	45	
	4	22	23				
				28	30	51	
	5	34	40				
				42	27	82	**(MOIST, FIRM TO VERY COMPACT)**
10'							End of Boring at 10.0' depth.
							No measurable groundwater inside augers upon completion.
15'							
20'							
25'							
30'							

00556

DENTE ENGINEERING, P.C. — SUBSURFACE LOG DAH- 6

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-14-06	FINISH: 6-14-06
LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 565.5 m		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 11.5" ASPHALT / ± 10" SAND AND GRAVEL
	1	4	7				Brown F-C SAND, Little Gravel, trace silt, mild
				12	12	19	petroleum odor noted **(MOIST)**
	2	8	8				Grades Brown Fine SAND, Some Coarse Sand, trace
				9	9	17	gravel, mild petroleum odor noted
5'	3	5	8				**(MOIST, FIRM)**
				7	6	15	Brown SILT and Fine SAND
	4	5	8				**(MOIST, MEDIUM)**
				6	8	14	
	5	11	10			10	Brown Fine SAND, trace silt **(MOIST, FIRM)**
10'							Brown SILT, Some Fine Sand **(MOIST, MEDIUM)**
							End of Boring at 10.0' depth.
							No measurable groundwater inside augers upon
							completion.
15'							
20'							
25'							
30'							

DENTE ENGINEERING, P.C.

SUBSURFACE LOG DAH- 7

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-13-06	FINISH: 6-13-06
LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 547.5 m		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 6" ASPHALT / ± 6" SAND AND GRAVEL
	1	12	11				Brown F-M SAND, Some Coarse Sand and Gravel,
				12	12	23	trace silt **(MOIST)**
	2	5	4				No RECOVERY: cobble noted
5'				4	4	8	
	3	7	19				Grades Little Coarse Sand and Gravel
				19	17	38	
	4	16	17				Grades Brown / Light Brown Fine SAND, Little
				20	22	37	Gravel, trace coarse sand
	5	28	50/.2			50	Grades Brown Fine SAND, trace gravel and silt
10'							**(MOIST, LOOSE TO VERY COMPACT)**
							End of Boring at 9.7' depth with split spoon refusal.
							No measurable groundwater in augers upon
							completion.
15'							
20'							
25'							
30'							

DENTE ENGINEERING, P.C.

SUBSURFACE LOG DAH- 8

PROJECT: Old Military Road - CR 35

DATE START: 6-13-06 FINISH: 6-13-06

LOCATION: North Elba, New York

METHODS: 2 1/4" HSAC with ASTM D 1586

CLIENT: Essex County DPW

JOB NUMBER: FDE-06-98

SURFACE ELEVATION: ± 531.5' m

DRILL TYPE: CME 55

CLASSIFICATION: O. Burns

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	6	7				Brown F-C SAND, Little Gravel, trace silt
				8	6	15	**(MOIST)**
	2	7	6				Grades Light Brown F-M SAND, Occasional coarse
				7	5	13	Sand Seams noted
	3	5	6				
5'				7	6	13	
	4	4	5				
				5	6	10	
	5	7	6				
				5	8	11	**(MOIST, FIRM TO LOOSE)**
10'							End of Boring at 10.0' depth.
							No measurable groundwater inside augers upon completion.
15'							
20'							
25'							
30'							

DENTE ENGINEERING, P.C. — SUBSURFACE LOG DAH- 9

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-14-06	FINISH: 6-14-06
LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 537.5 m		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 7.5" ASPHALT / ± 8" SAND AND GRAVEL
	1	9	17				**POSSIBLE FILL:** Light Brown F-C SAND and GRAVEL, trace silt **(MOIST)**
				29	35	46	
	2	48	29				Grades Light Brown / Grey, Little Silt, boulders noted **(MOIST, COMPACT TO VERY COMPACT)**
5'				43	37	72	
	3	27	25				Brown F-C SAND, Some Silt, Little Gravel, cobble noted
				32	55	57	
	4	20	28				Grades F-M SAND, Little Silt, gravel and cobble noted **(WET)**
				22	30	50	
	5	19	20			20	Grades trace silt **(MOIST TO WET, COMPACT TO FIRM)**
10'							End of Boring at 10.0' depth. Groundwater measured at 9.0' depth upon completion.
15'							
20'							
25'							
30'							

00560

DENTE ENGINEERING, P.C.

SUBSURFACE LOG DAH- 10

PROJECT: Old Military Road - CR 35

DATE START: 6-15-06 FINISH: 6-15-06

LOCATION: North Elba, New York

METHODS: 2 1/4" HSAC with ASTM D 1586

CLIENT: Essex County DPW

JOB NUMBER: FDE-06-98

SURFACE ELEVATION: ± 540.0

DRILL TYPE: CME 55

CLASSIFICATION: O. Burns

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 7.5" ASPHALT / ± 8" SAND AND GRAVEL
	1	6	9				**FILL:** Dark Brown / Orange F-C SAND and GRAVEL,
				7	8	16	Little Silt, trace asphalt **(MOIST, FIRM)**
	2	4	3				**FILL:** Dark Brown SILT, trace organics noted
5'				3	3	6	**(MOIST, MEDIUM)**
	3	1/12					**FILL:** Brown / Orange F-M SAND, Little Silt
				1/12		1	Grades Some Silt, trace organics noted
	4	1	3				Similar with trace concrete **(WET)**
				5	7	8	**(MOIST TO WET, LOOSE)**
	5	6	7			7	Brown Fine SAND, trace silt
10'							Grades Brown / Orange **(SATURATED)**
							(WET TO SATURATED, LOOSE)
							End of Boring at 10.0' depth.
							Groundwater measured at 8.5' depth upon
15'							completion.
20'							
25'							
30'							

DENTE ENGINEERING, P.C. — SUBSURFACE LOG DAH- 11

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-15-06	FINISH: 6-15-06
LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 546.5 m		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 7.5" ASPHALT / ± 8" SAND AND GRAVEL
	1	5	7				Brown to Light Brown Fine SAND, trace gravel and
				11	12	18	silt **(MOIST)**
	2	7	10				Grades trace coarse sand
				10	11	20	
5'	3	10	12				Grades trace gravel
				14	16	26	
	4	17	14				Grades F-M SAND, trace gravel with Occasional
				17	21	31	Coarse Sand Partings
	5	37	22			22	Grades Light Brown F-C SAND, trace silt and gravel
10'							to Light Brown F-M SAND, trace silt at 9.5' depth **(MOIST, FIRM)**
							End of Boring at 10.0' depth.
							No measurable groundwater inside augers upon
15'							completion.
20'							
25'							
30'							

00562

DENTE ENGINEERING, P.C. — SUBSURFACE LOG DAH- 12

PROJECT: Old Military Road - CR 35

DATE START: 6-15-06 FINISH: 6-15-06

LOCATION: North Elba, New York

METHODS: 2 1/4" HSAC with ASTM D 1586

CLIENT: Essex County DPW

JOB NUMBER: FDE-06-98

SURFACE ELEVATION: ± 550.5' m

DRILL TYPE: CME 55

CLASSIFICATION: O. Burns

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 7" ASPHALT / ± 8" SAND AND GRAVEL
	1	10	12				**FILL:** Light Brown / Grey Fine SAND, trace silt and gravel **(MOIST) (MOIST, FIRM TO LOOSE)**
				16	16	28	
	2	12	4				
				4	6	8	Dark Brown Fine SAND and SILT, Some Gravel, trace wood **(MOIST, MEDIUM)**
5'	3	12	17				
				20	22	37	Brown Fine SAND, trace silt **(MOIST, COMPACT)**
	4	39	49				Brown F-C SAND and GRAVEL, trace silt **(MOIST, VERY COMPACT)**
				29	55	78	
10'	5	50/.4				REF	POOR RECOVERY: Brown / Grey ROCK FRAGMENTS, Some Dark Brown Fine Sand and Silt **(MOIST, VERY COMPACT)**
15'							End of Boring at 9.4' depth with split spoon refusal. No measurable groundwater in augers upon completion.
20'							
25'							
30'							

DENTE ENGINEERING, P.C. — SUBSURFACE LOG DAH- 13

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-15-06	FINISH: 6-15-06
LOCATION: North Elba, New York	**METHODS:** 2 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 558.0 m		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 5.5" ASPHALT / ± 8" SAND AND GRAVEL
	1	12	7				Light Brown Fine SAND, Little Coarse Sand and
				15	20	22	Gravel, trace silt **(MOIST)**
	2	16	17				Grades trace coarse sand and gravel
				20	28	37	
5'	3	15	23				
				23	24	46	
	4	36	75/.1			REF	Grades Little Gravel, boulder noted **(MOIST, FIRM TO VERY COMPACT)**
10'							End of Boring at 7.6' depth with split spoon refusal. No measurable groundwater inside augers upon completion.
15'							
20'							
25'							
30'							

00564

DENTE ENGINEERING, P.C.

SUBSURFACE LOG DAH- 14

PROJECT: Old Military Road - CR 35

DATE START: 6-15-06 FINISH: 6-15-06

LOCATION: North Elba, New York

METHODS: 2 1/4" HSAC with ASTM D 1586

CLIENT: Essex County DPW

JOB NUMBER: FDE-06-98

SURFACE ELEVATION: ± 550.0 m

DRILL TYPE: CME 55

CLASSIFICATION: O. Burns

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	± 6" ASPHALT / ± 8" SAND AND GRAVEL
	1	7	8				Brown Fine SAND, Little Silt, trace gravel **(MOIST)**
				5	9	13	
	2	10	12				
				20	20	32	
5'	3	23	38				Grades Brown / Light Brown
				75	77	113	
	4	75	85				Grades Brown / Light Brown F-M SAND, trace silt
				50/.1		135	and gravel **(MOIST, FIRM TO VERY COMPACT)**
10'							End of Boring at 8.1' depth with split spoon refusal. No measurable groundwater inside augers upon completion.
15'							
20'							
25'							
30'							

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GEOTECHNICAL EVALUATION FOR ESSEX CR 35 BRIDGE OVER CHUBB RIVER TOWN OF NORTH ELBA, NEW YORK FILE NO. FDE-06-98

PREPARED FOR:
Essex County DPW
8035 Route 9
Elizabethtown, NY 12932

PREPARED BY:
Dente Engineering, P.C.
594 Broadway
Watervliet, New York 12189

July 2006

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GEOTECHNICAL EVALUATION FOR ESSEX CR 35 BRIDGE OVER CHUBB RIVER TOWN OF NORTH ELBA, NEW YORK FILE NO. FDE-06-098

I. INTRODUCTION

This report presents the results of our Geotechnical Evaluation completed for the planned replacement of the Old Military Road (Essex County Route 35) bridge over the Chubb River in the Town of North Elba, New York. Our services have been provided in general accord with our term agreement and included:

- Reconnaissance of the bridge site by a Geotechnical Engineer.
- Stakeout, utility clearance and completion of two conventional exploratory test borings at the site.
- Evaluation of the data collected and the preparation of this report which presents our conclusions and recommendations concerning the geotechnical aspects of the planned bridge replacement.

This report and the recommendations contained within it were developed for specific application to the site and construction planned, as we currently understand it. Corrections in our understanding, changes in the structure locations, grades, loads, etc. should be brought to our attention so that we may evaluate their effect, if any, upon the recommendations offered.

A sheet entitled *"Important Information about your Geotechnical Engineering Report"* prepared by the Association of Engineering Firms Practicing in the Geosciences is presented following the title page of this report. This sheet should never be separated from this report and be carefully reviewed as it sets the only context within which this report should be used.

This report was prepared for informational purposes only and should not be considered part of the contract documents. It should be made available to interested parties in its entirety only. Should the data contained in this report not be adequate for the contractor's purposes, the contractor may make their own investigations, tests and analyses for use in bid preparation.

II. PROJECT AND SITE DESCRIPTION

The project site is located at the Old Military Road (Essex County Route 35) crossing over the Chubb River in the Town of North Elba, New York, as shown on the Site Location Map in Appendix A. The existing bridge is single-span structure located along a curve in the road. It is our understanding that the road will be realigned and the new bridge located downstream (east) from the existing bridge.

The new bridge will be approximately 20 meters in length and designed with pile supported concrete abutments or non-pile supported abutments with permanent sheet-piling installed for scour protection. Approximately one to two meters of fill material will be required to establish the planned approaches to the bridge. Conceptual abutment loads for the new bridge were not provided to us.

As shown on the photographs in Appendix B, the existing site grades are relatively level and gently sloping along either side of the stream where the new bridge is planned for construction. The north side of the stream is an open field and the south side is wooded. No bedrock outcrops were observed in the immediate area of the proposed bridge.

III. SUBSURFACE CONDITIONS

The subsurface conditions were explored through the completion of two exploratory test borings at the approximate locations depicted on the Subsurface Exploration Plan in Appendix C. The boring locations shown on the plan are approximate - we understand that their actual locations will be surveyed by others.

A standard rotary drill rig equipped with hollow stem augers was used to complete the borings. As the augers were advanced, the overburden soils were sampled and their relative density determined through the procedures of ASTM D-1586. Subsurface logs were prepared for the test borings based on a visual classification of the recovered soil samples by a Geotechnical Specialist. The logs are presented in Appendix D, together with sheets which explain the terms used in their preparation.

The Subsurface Logs should be reviewed for the specific conditions encountered at the investigated locations. It should be noted that conditions are only known at the investigated locations and at the depths sampled, and that conditions at locations and depths other than those investigated may or may not be similar. It should also be understood that conditions may change with time and be seasonally influenced.

The test borings penetrated through approximately three to four feet of fill material composed primarily of loose sand. This was followed by a thin layer of silt and organic matter which may be remnants of the original topsoil layer over which the fill material was placed. Beneath the organic rich soils, beginning about six feet below grade, were deep deposits of sand and gravel with occasional cobbles and boulders. On the north side of the stream (boring DAB-1) the soils were of a loose to firm density to a depth of about 30 feet

where they became very compact. The boring was ended in the very compact soils at a depth of 37 feet below grade. On the south side of the stream (boring DAB-2) the soils were relatively firm to compact from a depth of six feet to termination of the boring at 21 feet below grade.

Based on the recovery of "wet" soil samples and measurement of water in the augers at completion of drilling, it appears that groundwater was present about 1.5 to 3 feet below grade at the time of exploration. It should be expected that the groundwater level will vary by several feet with seasonal fluctuations in precipitation, runoff and changes in the stream water level.

IV. GEOTECHNICAL RECOMMENDATIONS

A. GENERAL

Based on our evaluation of the conditions disclosed through the site exploration, it is our opinion that both of the proposed design options may be considered, that is: (1) a shallow spread foundation system with scour protection provided by steel sheet-piles; or (2) a deep pile foundation system to transmit the bridge loads below the potential scour zone. For these two options we have the following general comments which should be considered in planning for design and construction:

1. Sheet-piles may be considered as means of scour protection for the spread foundation option, although it should be understood that cobbles and boulders may exist within both the fills and the natural soils at this site and they may interfere with the sheet piles reaching design penetration depths. Steel H piles, used as boulder busters, may be required to break up these cobbles and boulders where, or if, they are encountered.

2. A driven closed-end pipe pile is the recommended deep foundation option for the project site. It should be understood that it may be necessary to add piles if boulders prevent some piles from being driven to their required depth, and the bid documents should therefore request a unit price for additional piles if they are required.

Based on the available subsurface information and our knowledge of the general geology of the project area, the site is considered a Soil Profile Type I in accordance with the AASHTO Standard Specifications for Highway Bridges. Therefore, a Site Coefficient, S, of 1.0 is recommended to determine seismic loads, if required.

To assist in further evaluation of the deep pile and shallow spread foundation options, guideline recommendations for each are provided in the following report sections.

B. SITE DEVELOPMENT AND EARTHWORK

Excavation

Construction will require excavation through the existing fill materials and indigenous soils to reach bearing surfaces for the spread foundations or pile caps. It is expected that the excavations can be completed using normal earth moving equipment.

The design of temporary excavations at the site should meet the requirements of 29 CFR Part 1926 Occupational Safety and Health Administration (OSHA) Standards - Excavations for Type C Soils above and below the stream level. Appropriate groundwater control measures should be implemented for excavations extending below the stream level.

The design of any temporary earth support that may be required should be performed by the contractor and submitted for review. The submittal should include assumptions made regarding soil properties, geometry of the excavation, lateral pressure diagrams, locations and magnitudes of all surcharge loads and wall design calculations. The temporary earth support should be designed and stamped by a Professional Engineer licensed in the State of New York. Each component of the excavation support system should be designed to support the maximum combination of loading that can occur.

Construction Dewatering

Dependent upon stream levels during construction, the excavations planned may penetrate saturated soils and groundwater, which will coincide with the stream levels in the immediate project area. Common sump and pump techniques from within cofferdam sheets and behind sheetpile walls should be capable of limited depression and control of the water table at this site. The dewatering system must be designed and operated to assure that the system does not fail and allow groundwater to rise, possibly creating "quick" conditions at the bearing grades within the cofferdam or buoyant forces upon partially completed structures. Actual design of the dewatering plan and it's operation should be performed by the contractor based on the depth of the excavations and means of bracing, if any.

Foundation Subgrade Preparation

If a non-pile supported spread foundation is used, all existing fill and underlying organic matter should be removed from beneath the foundation. Removal of the existing fill and organic material should extend laterally beyond each side of the foundation a distance at least equal to the depth of undercut below the final subgrade elevation. A minimum 18-inch thick base of crushed stone (No.1 and No. 2 size aggregate) is recommended beneath the pile caps or spread foundations. The stone will establish a more stable working surface and facilitate dewatering should it be required. The stone should be placed over a geotextile fabric (Mirafi 600X or equivalent) and chinked together using a walk-behind vibratory roller to form a relatively firm and unyielding surface. Dewatering should be performed to lower water levels at least one foot below the bearing surface. Final bearing grades should be firm, stable and free of loose soil, mud, water and frost.

Approach Embankment Subgrade Preparation

Prior to placing fill material to construct the approach embankments, the site should be cleared and stripped of topsoil and surficial organic matter. The exposed subgrade should be proof-rolled using a minimum seven ton smooth drum roller. The roller should operate in its vibratory mode and complete at least five passes over all areas to receive fill material. Any soft areas identified by the proof-rolling should be investigated to determine the cause and stabilized accordingly.

Fill and Backfill

Structural Fill required to backfill the abutments and retaining walls, and to construct the approach embankments, should consist of NYSDOT Section 304, Type 4 Sand and Gravel material. All fill materials beneath roadways or foundations should be placed in loose layers no more than one foot thick and compacted to not less than 95 percent of the maximum dry density for the material determined through the procedures of ASTM D-1557, the Modified Proctor Compaction test.

* need to use a material to provide a 1 on 2 Slope.

Permanent Slopes

Permanent site slopes composed of Structural Fill should be constructed no steeper than about one vertical on three horizontal. All bridge approach embankment slopes should be thickly vegetated or otherwise protected against erosion.

cannot provide 1 on 3

C. CLOSED-END PIPE PILES

Closed-end pipe piles will develop their capacity through a combination of side friction and end bearing. The pipe pile should meet ASTM A 252 requirements, and have a minimum wall thickness of 0.375 inches and diameter of 16 inches. A flat steel plate at least 1.5 inches thick should be welded to the tip of the pile to close it. Assuming that the pile length is limited to 30 to 35 feet below the existing site grades, we estimate a total allowable capacity of 80 kips for the 16-inch diameter pile. The allowable capacity was determined using empirical analysis and applying a factor of safety equal to 3.0 for end bearing and 2.0 for side friction. The piles should be spaced at least three feet center to center, and at this spacing no reduction in the vertical allowable capacities is necessary. Battered piles should be installed as required to resist lateral loads.

The piles should be driven with a hammer producing a minimum rated energy of at least 15,000 foot-pounds. For preliminary planning purposes, it should be assumed that the piles must be driven to a minimum resistance of five hammer blows per inch for three consecutive inches. A wave equation analysis should be conducted by the contractor to refine the pile driving criteria and to confirm that the hammer and cushioning, actually proposed for use, will not over-stress the pile as it is driven. The contractor should determine the minimum thickness for the pipe casing required for driving, however, in no case should the minimum thickness be less than the 0.375 inches recommended above.

Based upon our static analysis, it is expected that the pile lengths may range from about 30 to 35 feet as measured from the existing ground surface. It should be noted that actual

pile lengths can only be established after driving. It is not uncommon for two piles that are separated by only a few feet to have driven lengths that vary by several feet. As such, an allowance should be carried for pile splicing and unit prices requested for piles driven past the estimated lengths. We also note that cobbles and boulders may be encountered when driving the piles, and it may be necessary to add piles if these obstructions damage piles or prevent them from being driven to their required depth. The bid documents should therefore request a unit price for additional piles should they be required.

Piles will settle upon loading through elastic shortening of the piles and semi-elastic compression of the bearing soils. We anticipate the compression of the soil and elastic shortening of the pile sections may result in the total and differential settlement of less than one-half inch. Pile settlements will occur as loads are imposed and should cease within days at the design loadings recommended.

D. SPREAD FOUNDATIONS

Non-pile supported spread foundations should be seated at least five feet below the final adjacent grades for frost protection. If sheet-piles or other acceptable scour protection is not provided, the foundations should be seated below the expected scour zone. The appropriate means for scour protection should be selected based on a scour analysis by a river specialist. The foundation bearing grades should be prepared as specified in Section IV.B of this report.

Assuming that the bearing grades are prepared as recommended, the foundations may be designed for a maximum net allowable bearing pressure of 4,000 pounds per square foot. The foundations should settle within a few hours to days after construction is completed and loads are applied. It should be understood that actual settlements will be dependent in great part upon the care exercised during bearing grade preparation. Assuming the bearing grades are prepared as recommended, the total foundation settlement is expected to be less than one inch and differential settlement less than one-half inch.

E. RETAINING WALL DESIGN

The abutments and wingwalls should be designed to resist lateral loads imposed by the soil backfill and all applicable surcharges. Abutment walls should be designed to restrain lateral earth pressures calculated for the At-Rest Condition. Wingwalls and temporary cofferdams may be designed to resist Active Lateral Earth Pressures. Assuming the walls are backfilled with compacted Structural Fill, as specified in Section IV.B, the following parameters may be used to determine the lateral earth pressures for the fill material and native sand and gravel soils:

	Active	At-Rest	Passive
Coefficient of Lateral Earth Pressure	0.33	0.50	3.00
Equivalent Fluid Weight of Soil (pcf)	40	60	360

To assist in evaluating sliding stability, a coefficient of sliding friction equal to 0.55 may be assumed where a crushed stone base is placed. This should be reduced to 0.40 if no stone base is placed.

Weep holes should be provided through the walls or a foundation drain installed to limit the potential for water to become trapped behind the walls. Hydrostatic pressures should be included in determining the loads acting on the walls for that height of exposed wall below the invert of the weep holes or foundation drain.

F. PLAN REVIEW & CONSTRUCTION MONITORING

The Geotechnical Engineer should be retained to review plans and specifications related to foundations and earthwork prior to their release for bidding. The Geotechnical Engineer should be also retained to observe installation of piles or to observe bearing grades if a non-pile supported foundation system is used. The presence of the Geotechnical Engineer during construction will serve to validate the conditions assumed to exist, and to confirm that the foundations are installed in accordance with project specifications and the recommendations contained herein.

V. CLOSURE

This report was prepared for specific application to the site, project and loadings as discussed herein. We request the opportunity to review plans and specifications applicable to this report to assure our recommendations have been interpreted as intended. This report was prepared using Geotechnical Engineering methods and practices generally in use at the time of its preparation. No other warranty, expressed or implied, is made.

We appreciate the opportunity to be of service. Should questions arise or if we may be of any other service, please contact us at your convenience.

Yours Truly,
Dente Engineering, P.C.

Edward C. Gravelle, P.E.
Vice President

Fred A. Dente, P.E.
President

Important Information About Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

The following information is provided to help you manage your risks.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. *Do not rely on an executive summary.* Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, *do not rely on a geotechnical engineering report that was:*

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

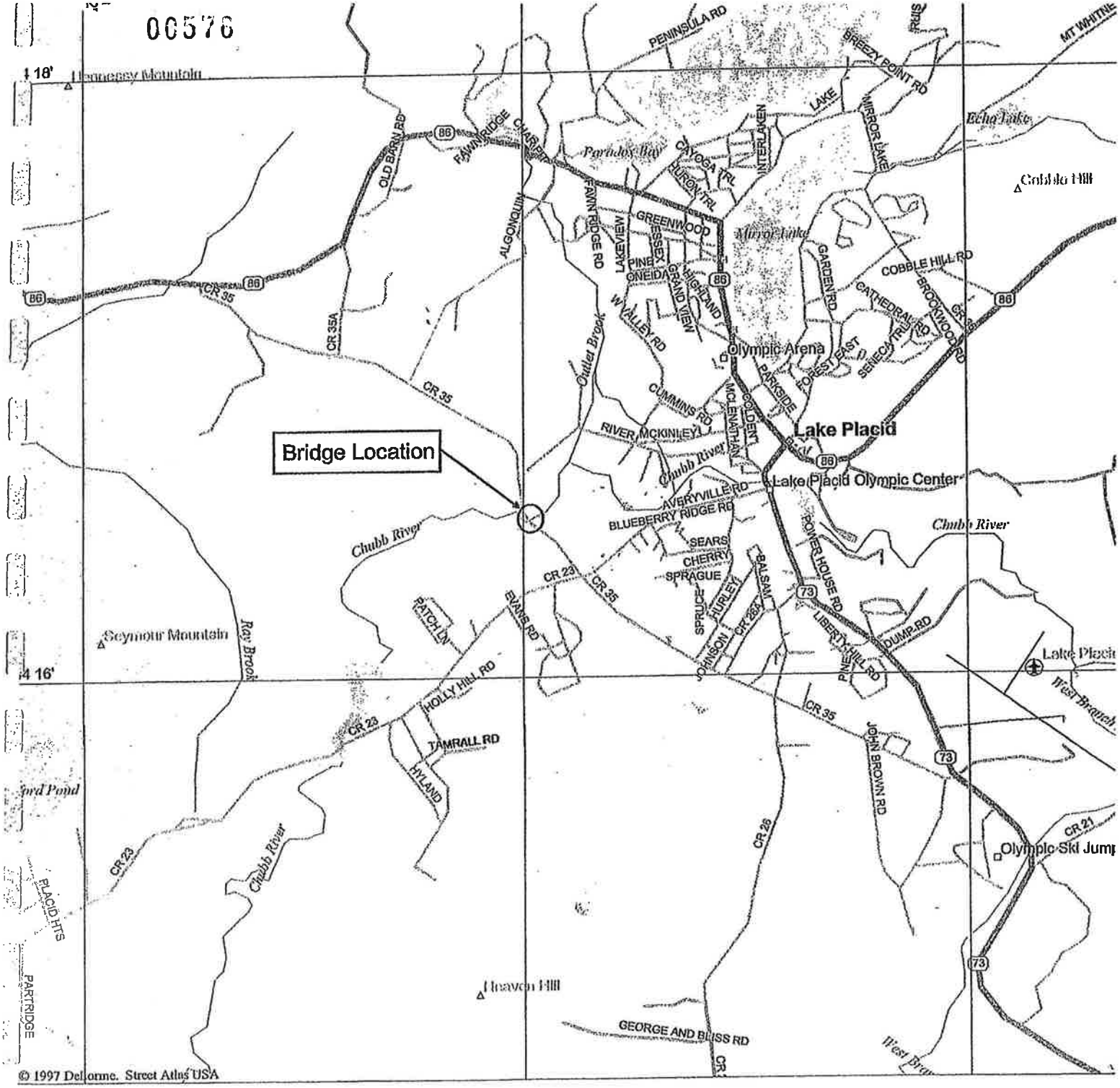
Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

APPENDIX A

00576



Mag 14.00
Wed Jul 12 07:47 2006
Scale 1:31,250 (at center)

2000 Feet

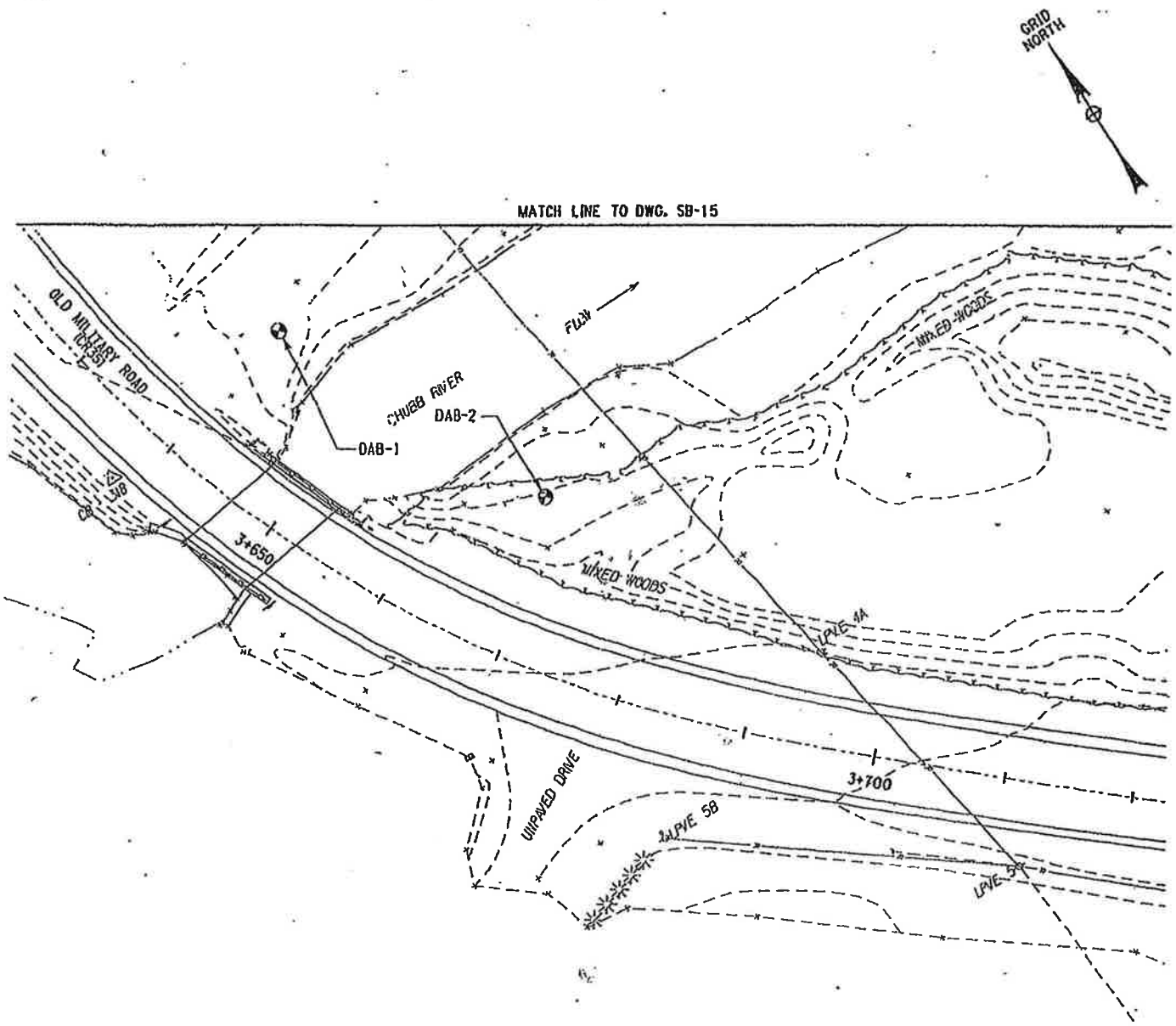
1000 Meters

- Local Road
- Primary State Route
- Trail
- Railroad
- Point of Interest
- Small Town
- Airfield
- Summit
- Public Airport
- Cemetery
- Water
- Woodland
- River/Canal

SITE LOCATION MAP
ESSEX CR 35 BRIDGE OVER CHUBB RIVER
TOWN OF NORTH ELBA, NEW YORK

APPENDIX B

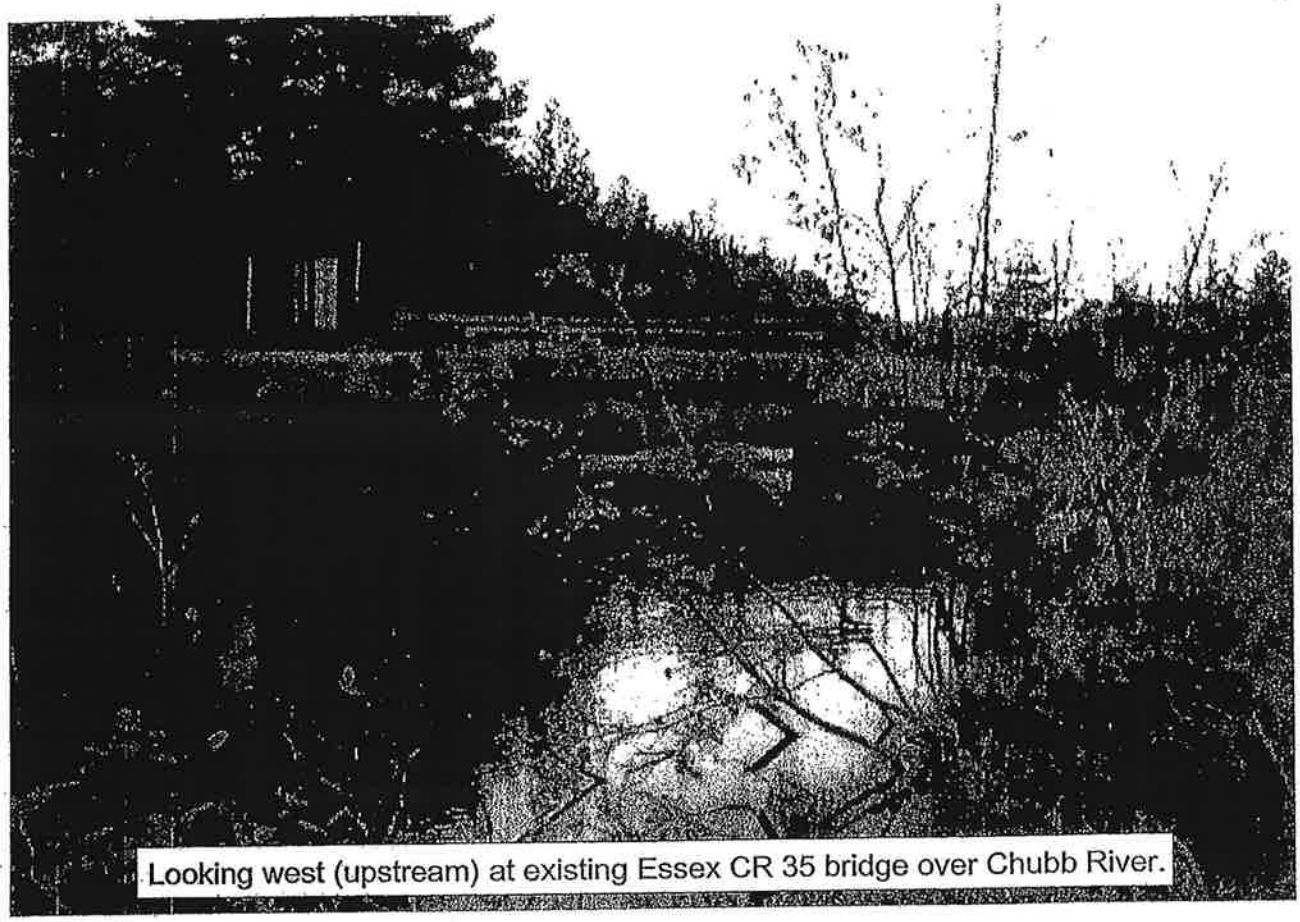
00578



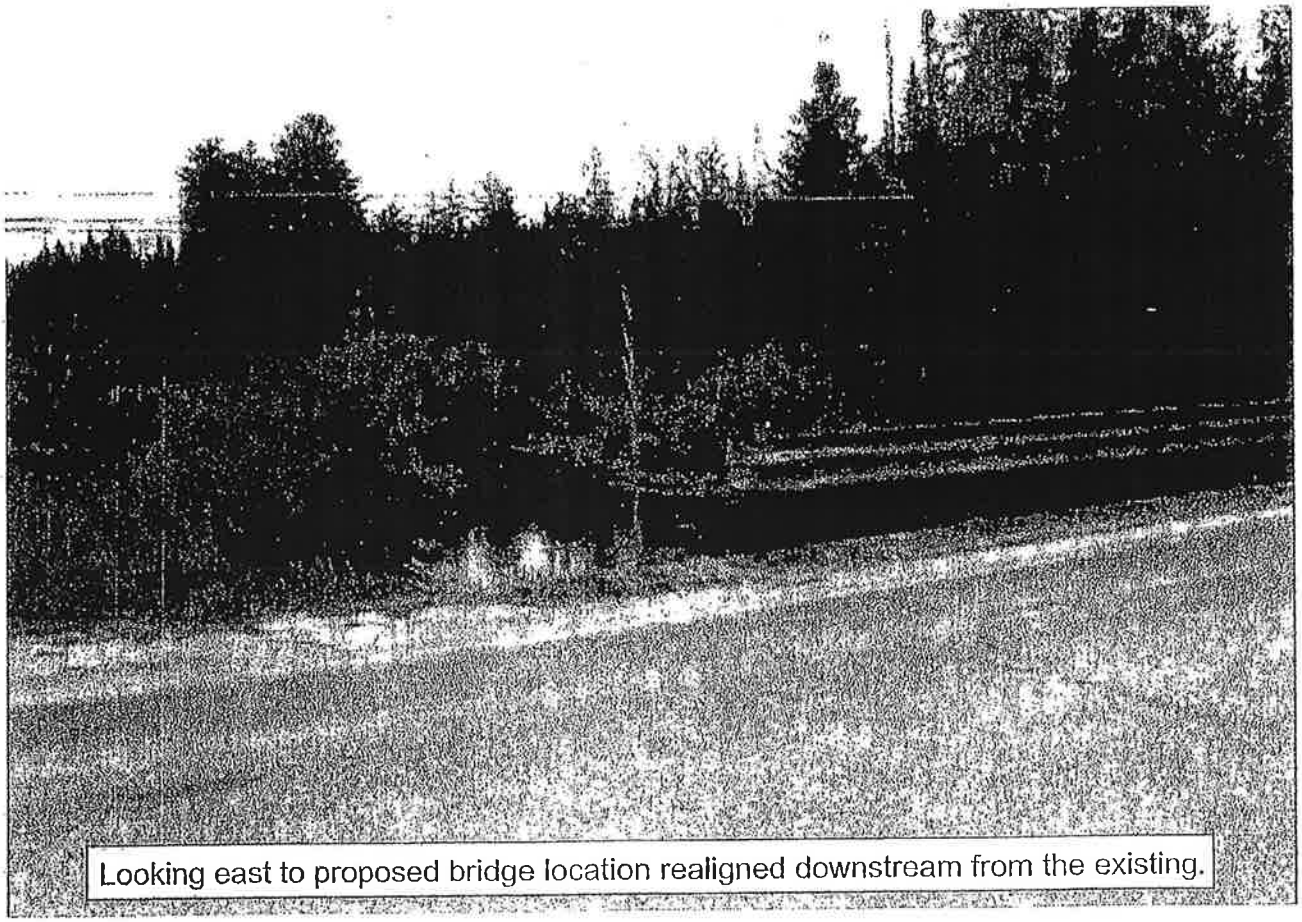
Legend: ⊕ Approximate Boring Location (actual field location to be surveyed by others)

DENTE ENGINEERING, P.C. 594 Broadway - Watervliet, New York 12189 Voice 518-266-0310 Fax 518-266-9238		
Scale: 1:500 ±	**SUBSURFACE EXPLORATION PLAN** *Essex CR 35 Bridge over Chubb River* *Town of North Elba, New York*	Drawn By: -
Date: 07/11/2006		Drawing No. 1

APPENDIX C



Looking west (upstream) at existing Essex CR 35 bridge over Chubb River.



Looking east to proposed bridge location realigned downstream from the existing.

APPENDIX D

INTERPRETATION OF SUBSURFACE LOGS

The Subsurface Logs present observations and the results of tests performed in the field by the Driller, Technicians, Geologists and Geotechnical Engineers as noted. Soil/Rock Classifications are made visually, unless otherwise noted, on a portion of the materials recovered through the sampling process and may not necessarily be representative of the materials between sampling intervals or locations.

The following defines some of the terms utilized in the preparation of the Subsurface Logs.

SOIL CLASSIFICATIONS

Soil Classifications are visual descriptions on the basis of the Unified Soil Classification ASTM D-2487 and USBR, 1973 with additional comments by weight of constituents by BUHRMASTER. The soil density or consistency is based on the penetration resistance determined by ASTM METHOD D1586. Soil Moisture of the recovered materials is described as DRY, MOIST, WET or SATURATED.

SIZE DESCRIPTION		RELATIVE DENSITY/CONSISTENCY (basis ASTM D1586)			
SOIL TYPE	PARTICLE SIZE	GRANULAR SOIL		COHESIVE SOIL	
BOULDER	> 12	DENSITY	BLOWS/FT.	CONSISTENCY	BLOWS/FT.
COBBLE	3" - 12"	LOOSE	< 10	VERY SOFT	< 3
GRAVEL-COARSE	3" - 3/4"	FIRM	11 - 30	SOFT	4 - 5
GRAVEL - FINE	3/4" - #4	COMPACT	31 - 50	MEDIUM	6 - 15
SAND - COARSE	#4 - #10	VERY COMPACT	50 +	STIFF	16 - 25
SAND - MEDIUM	#10 - #40			HARD	25 +
SAND - FINE	#40 - #200				
SILT/NONPLASTIC	< #200				
CLAY/PLASTIC	< #200				

SOIL STRUCTURE		RELATIVE PROPORTION OF SOIL TYPES	
STRUCTURE	DESCRIPTION	DESCRIPTION	% OF SAMPLE BY WEIGHT
LAYER	6" THICK OR GREATER	AND	35 - 50
SEAM	6" THICK OR LESS	SOME	20 - 35
PARTING	LESS THAN 1/4" THICK	LITTLE	10 - 20
VARVED	UNIFORM HORIZONTAL PARTINGS OR SEAMS	TRACE	LESS THAN 10

Note that the classification of soils or soil like materials is subject to the limitations imposed by the size of the sampler, the size of the sample and its degree of disturbance and moisture.

ROCK CLASSIFICATIONS

Rock Classifications are visual descriptions on the basis of the Driller's, Technician's, Geologist's or Geotechnical Engineer's observations of the coring activity and the recovered samples applying the following classifications.

CLASSIFICATION TERM	DESCRIPTION
VERY HARD	NOT SCRATCHED BY KNIFE
HARD	SCRATCHED WITH DIFFICULTY
MEDIUM HARD	SCRATCHED EASILY
SOFT	SCRATCHED WITH FINGERNAIL
VERY WEATHERED	DISINTEGRATED WITH NUMEROUS SOIL SEAM
WEATHERED	SLIGHT DISINTEGRATION, STAINING, NO SEAMS
SOUND	NO EVIDENCE OF ABOVE
MASSIVE	ROCK LAYER GREATER THAN 36" THICK
THICK BEDDED	ROCK LAYER 12" - 36"
BEDDED	ROCK LAYER 4" - 12"
THIN BEDDED	ROCK LAYER 1" - 4"
LAMINATED	ROCK LAYER LESS THAN 1"
FRACTURES	NATURAL BREAKS AT SOME ANGLE TO BEDS

Core sample recovery is expressed as percent recovered of total sampled. The ROCK QUALITY DESIGNATION (RQD) is the total length of core sample pieces exceeding 4" length divided by the total core sample length for N size cored.

GENERAL

- Soil and Rock classifications are made visually on samples recovered. The presence of Gravel, Cobbles and Boulders will influence sample recovery classification density/consistency determination.
- Groundwater, if encountered, was measured and its depth recorded at the time and under the conditions as noted.
- Topsoil or pavements, if present, were measured and recorded at the time and under the conditions as noted.
- Stratification Lines are approximate boundaries between soil types. These transitions may be gradual or distinct and are approximated.

00534

DENTE ENGINEERING, P.C.	SUBSURFACE LOG DAB-1.1

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-7-06	FINISH: 6-7-06

LOCATION: North Elba, New York	**METHODS:** 4 1/4" HSAC with ASTM D 1586
CLIENT: Essex County DPW	
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 527.0 meters
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	NO TOPSOIL
	1	1	2				**FILL:** Brown F-M SAND, Little Coarse Sand,
				4	5	6	Gravel and Silt **(WET)**
							(WET, LOOSE)
							Dark Brown SILT, trace F-C Sand, roots and
5'	2	1	4				organics noted **(WET, MEDIUM)**
				7	9	11	Brown F-C SAND and GRAVEL
10'	3	2	1				
				2	4	3	
							(WET, FIRM TO LOOSE)
15'	4	3	7				Brown F-C SAND with a gravel seam noted at
				13	14	20	16.5' - 17.0' depth, trace silt
20'	5	4	5				Grades trace gravel **(SATURATED)**
				4	8	9	
25'	6	11	11				Grades Grey F-M SAND with Occasional Coarse
				10	10	21	Sand Partings, Little Gravel and Silt
	Rock Core Run #1 29.0' - 31.0'						Boulder noted
30'	REC = 50% RQD = N/A						

DENTE ENGINEERING, P.C.

SUBSURFACE LOG DAB-1.2

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-7-06	FINISH: 6-7-06
LOCATION: North Elba, New York	**METHODS:** 4 1/4" HSAC with ASTM D 1586		
CLIENT: Essex County DPW			
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 527.0 meters		
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns		

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	NO TOPSOIL
	7	5	10				Grey F-M SAND with Occasional Coarse Sand
				63	54	73	Partings, Some Silt and Gravel **(WET)**
							(WET AND SATURATED, LOOSE TO V. COMPACT)
35'	8	3	23				Grey Fine SAND and SILT with Occasional F-C
				48	56	71	Sand Seams, gravel and cobble noted
							(WET, VERY COMPACT)
							End of Boring at 37.0' depth.
							Groundwater measured at 1.5' depth upon completion.
40'							
45'							
50'							
55'							
60'							

00586

DENTE ENGINEERING, P.C.	SUBSURFACE LOG DAB-2

PROJECT: Old Military Road - CR 35	**DATE**	START: 6-8-06 / FINISH: 6-8-06

LOCATION: North Elba, New York	**METHODS:** 4 1/4" HSAC with ASTM D 1586
CLIENT: Essex County DPW	
JOB NUMBER: FDE-06-98	**SURFACE ELEVATION:** ± 527.0 meters
DRILL TYPE: CME 55	**CLASSIFICATION:** O. Burns

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	NO TOPSOIL
	1	WH	1				**FILL:** Brown F-M SAND, trace coarse sand and
				3	4	4	gravel, roots noted **(MOIST)**
							(MOIST, LOOSE)
5'	2	WH	18				Dark Brown SILT and PEAT, trace f-m sand
				22	25	40	
10'	3	3	9				Brown F-C SAND, some gravel, trace silt,
				28	10	37	boulders noted at 11.0' - 14.0' depth
15'	4	22	22				Grades Brown / Grey with Some Orange
				12	17	34	Mottling, Little Silt
							Cored boulder 17.5' to 19'
20'	5	5	12				Grades Brown F-C SAND **(SATURATED)**
				16	6	28	**(WET TO SATURATED, COMPACT)**
							End of Boring at 21.0' depth.
							Groundwater measured at 2.8' depth after
							Sample # 3
25'							
30'							

GEOTECHNICAL EVALUATION
PROPOSED RETAINING WALLS
OLD MILITARY ROAD RECONSTRUCTION
ESSEX COUNTY, NEW YORK

DENTE FILE NO. FDE-09-073

Prepared For:

ESSEX COUNTY DPW
8053 Route 9
Elizabethtown, New York 12932

Prepared By:

DENTE ENGINEERING, P.C.
Watervliet, New York

May 29, 2009

Important Information About Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

The following information is provided to help you manage your risks.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. No one except you should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one — not even you* — should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, do not rely on a geotechnical engineering report that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final,* because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual

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APPENDICES

APPENDIX A Subsurface Investigation Plans
APPENDIX B Subsurface Logs and Key (English Units)
APPENDIX C Subsurface Logs and Key (SI Units)

DENTE
ENGINEERING

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GEOTECHNICAL EVALUATION
PROPOSED RETAINING WALLS
OLD MILITARY ROAD RECONSTRUCTION
ESSEX COUNTY, NEW YORK

I. INTRODUCTION

This report presents the results of a geotechnical evaluation completed by Dente Engineering, P.C. (Dente) for the retaining walls planned as part of the Old Military Road reconstruction project in Essex County, New York. The evaluation was completed in general accord with our proposal dated May 20,2009 which was authorized by the Essex County Department of Public Works. The geotechnical evaluation consisted of the following:

- Completion of 10 test borings along the proposed alignment of the retaining walls.
- Visual classification of soil samples obtained from the borings and preparation of subsurface logs by a Geotechnical Engineer.
- Preparation of this report to summarize the results of the site explorations, and present recommendations to assist in planning for the design and construction of the retaining walls.

This report and the recommendations contained within it were developed for specific application to the site and construction planned, as we currently understand it. Corrections in our understanding, changes in the structure locations, their grades, loads, etc. should be brought to our attention so that we may evaluate their effect upon the recommendations offered in this report.

It should be understood that this report was prepared, in part, on the basis of a limited number of site explorations. The explorations were made at discrete locations and the overburden soils sampled at specific depths. Conditions are only known at the locations and through the depths investigated. Conditions at other locations and depths may be different, and these differences may impact upon the conclusions reached and the recommendations offered.

A sheet entitled *"Important Information about your Geotechnical Engineering Report"* prepared by the Association of Engineering Firms Practicing in the Geosciences is presented following the title page of this report. This sheet should never be separated

from this report and be carefully reviewed as it sets the only context within which this report should be used.

This report was prepared for informational purposes only and should not be considered part of the contract documents. It should be made available to interested parties in its entirety only. Should the data contained in this report not be adequate for the contractor's purposes, the contractor may make their own investigations, tests and analyses for use in bid preparation.

The recommendations offered in this report concerning the control of surface and subsurface waters, moisture or vapor membranes address conventional Geotechnical Engineering aspects only and are not to be construed as recommendations for controlling or providing an environment that would prohibit or control infestations of the structure or its surroundings with mold or other biological agents.

II. SITE AND PROJECT DESCRIPTION

It is our understanding that the project will entail reconstruction of Old Military Road in Essex County, New York. As part of this reconstruction, 5 retaining walls are planned between Stations 2+110 to 4+295. The retaining wall plan and elevation views are shown on Drawings No. RW-3 through RW-7 dated April 2009 and prepared by Foit-Albert Associates. Reduced copies of these plans are presented in Appendix A with the approximate boring locations marked on them.

The walls will reportedly be gravity type systems such as Redi-Rock or similar structures. No filling will be done behind the walls, rather, cuts will be performed as required to widen the road and the new walls will retain the cut slopes. The walls will generally range in height from less than 1 to about 8 feet, with the exception of wall No. 3 which will have a maximum height of about 12 feet.

III. SUBSURFACE CONDITIONS

The subsurface conditions at the site were investigated through the completion of 10 test borings at or near locations staked in the field by Foit-Albert Associates. Our drillers moved several of the borings from the staked locations to avoid overhead power lines or overly steep slopes. The approximate actual boring locations are shown on the plans in Appendix A. Measurements obtained by our drillers from the staked to actual boring locations are noted on the logs in Appendices B and C.

The borings were completed using a standard rotary drill rig equipped with hollow stem augers. As the augers were advanced, the overburden soils were sampled and their relative density determined using split-spoon sampling techniques in general accord with ASTM D1586 procedures. Representative portions of the soil samples recovered from the test borings were transported to our office for visual classification by a Geotechnical Engineer. Individual subsurface logs, which were prepared based upon the visual classifications, are presented in Appendices B and C.

The individual subsurface logs should be referenced for the actual subsurface conditions at each boring location. It should be understood that the subsurface conditions may vary in an unknown manner between the boring locations. A summary of the conditions encountered is presented below.

In general, the borings disclosed variable native soil deposits ranging between silt, silty fine sand, and sand and gravel with cobbles and boulders. Fill and possible fill materials were encountered above the native soils in a few locations. Groundwater conditions also varied, with water found as shallow as 1.5 to 5.0 feet below grade along Wall No. 4 and greater than 22 feet below grade along Wall No. 1.

Wall No. 1

The surficial 3 to 8 feet of soil in this area consisted of brown fine to coarse sand with little to some gravel, little silt, and probable cobbles and boulders. These soils were of a loose to firm relative density in the upper 2 feet and very compact at greater depths. Beneath the surficial soils was a deposit of firm to compact, tan fine sand or fine to medium sand with trace to near equal proportions of silt and occasional thin seams of brown silt. These soils extended to the boring termination depth of about 22 feet. No groundwater was found within the depths explored.

Wall No. 2

About 4 to 5 feet or loose to firm fill material was found in this location. The fill generally consisted of fine to coarse sand with little to trace gravel and silt which graded to silt and fine sand. Thin inclusions of topsoil and pine needles were also found within the fill in boring B-3. Beneath the fill in boring B-3 was a brown silt with an interbedded layer of tan fine sand and silt between depths of 14 and 18 feet. In boring B-4, the native soils beneath the fill consisted of tan fine sand with variable amounts of silt and occasional thin seams and layers of brown silt. The borings were ended in these soils at depths of 22 and 18.6 feet. No groundwater was encountered within these depths.

Wall No. 3

Conditions varied along the alignment of this wall. Near the beginning of the wall, in test boring B-5, the soil profile consisted of a loose surficial layer of silt and fine sand that graded to firm to very compact, fine sand and fine to medium sand with trace to some silt and occasional thin seams of silt. A layer of compact sand and gravel was also found between depths of 13 and 16 feet. At the end of the wall, the soils in boring B-6 consisted of firm to very compact sand, gravel, cobbles and boulders with alternating layers of fine to medium sand and silt between depths of 4 and 7 feet. Auger refusal was met in boring B-6 at a depth of 9.5 feet. No groundwater was encountered within the 21.3 and 9.5 feet depths explored at the location.

Wall No. 4

Conditions also varied along the alignment of Wall No. 4. At the beginning of the wall, a loose surficial layer of sand with little gravel graded with depth to compact to very compact silty sand and gravel. Boring B-6 was ended in the silty sand and gravel when

auger refusal was met at a depth of 12.5 feet. Groundwater appeared to be present at this location about 1.5 feet below grade based on the recovery of wet soil samples. At the end of the wall, a loose surficial layer of fine sand and silt graded with depth to firm to very compact silt with occasional seams of sand. Beginning about 11 feet below grade, the soils transition to very compact varved silt which extended to the boring termination depth of 30.9 feet. Groundwater appeared to be about 3 to 5 feet below grade at the boring B-7 location based on the recovery of wet soil samples.

Wall No. 5

Borings B-9 and B-10 were made in the asphalt surfaced sidewalk along the alignment of Wall No. 5. The surficial 5 to 7 feet of soil consisted of fine to medium sand and fine to coarse sand with varying amounts of gravel, cobbles and boulders. At the end of the wall in boring B-10, the surficial 7 feet may consist of fill material, although this could not be determined with certainty based on our examination of the recovered soil samples. In boring B-9, near the beginning of the wall, the soils graded to relatively firm fine sand with little to trace silt at a depth of 5 feet and to very compact varved silt at 16 feet. At the end of the wall, the soils below a depth of 7 feet consisted of very compact fine to medium sand with some to trace gravel and little to trace silt. Groundwater was encountered about 8 to 10 feet below grade in this location based on the recovery of wet soil samples.

IV. GEOTECHNICAL RECOMMENDATIONS

A. GENERAL

The subsurface investigation disclosed variable subsurface conditions exist along the alignments of the proposed retaining walls. Bearing grades for the walls, and the soils they will retain, ranged between silt, silt and fine sand, sand and gravel with cobbles and boulders, and fills consisting of mixtures of the various native soils. Bedrock was not encountered within the depths explored at the discrete test boring locations, although cobbles and large boulders may be found in some areas.

Assuming a flexible type gravity wall is used, such as a Redi-Rock structure or segmental block wall, the variable subgrade conditions should generally be suitable for support of the walls provided that bearing surfaces are adequately prepared as recommended in the following report sections.

Groundwater is not expected to impact planning for design and construction of Walls No. 1, 2, 3, and 5. However, groundwater may be encountered at or near the base elevation for portions of Wall No. 4, and it may be necessary to place a drainage layer of clean crushed stone in this area to stabilize the subgrade for construction and assist in dewatering if it is required. Groundwater levels may vary seasonally by several feet, and during dry times of the year groundwater may not impact construction. In all cases, proper drainage should be provided for the wall's backfill soils as is generally recommended for the various wall types expected to be constructed.

In general, the excavated sand and sand/gravel soils should be suitable for reuse as fill and backfill provided that over-size cobbles and boulders are sorted out. Excavated soils comprised primarily of silt should not be reused as fill directly behind the walls.

B. SEISMIC DESIGN CONSIDERATIONS

For seismic design purposes, we have evaluated the site conditions in accord with Sections 1615 and 1616 of the New York State Building Code. On this basis, we have determined that Seismic Site Class "D - Stiff Soil Profile" is applicable to this project.

C. SUBGRADE PREPARATION & EARTHWORK

Excavations for the walls should be made in accord with OSHA requirements assuming the soils are Type C material with a maximum allowable temporary slope of 1V:1.5H. It should be possible to complete the excavations using standard excavation equipment, although it should be understood that large boulders may be encountered in some areas. If these boulders extend above the subgrade elevation for the wall it will be necessary to remove them in their entirety or use pneumatic hammers to remove them to at least 12 inches below the plan subgrade for the wall foundations.

Existing fill materials may be present in some locations and extend below the subgrade elevations for the walls. For planning purposes, it can be assumed that the fill may remain in place provided that the surface is heavily proof-compacted and stabilized as deemed necessary by a Geotechnical Engineer observing the work. A unit cost for under-cutting of unsuitable subgrade soils and their replacement with Structural Fill should be requested in contract documents.

The proof-compaction should be performed over all subgrades, except as noted below, using a vibratory roller with a static weight of at least 5 tons. The roller should operate in its vibratory mode, travel at a speed of about three feet per second (two miles per hour), and complete at least 3 passes over all subgrade areas. Soft areas should be investigated to ascertain the cause and, where determined to be necessary by the Geotechnical Engineer, undercut and stabilized with Structural Fill material.

If groundwater is encountered at of near the subgrade elevation, possibly along portions of Wall No. 4, the proof-compaction may be deleted as recommended by the Geotechnical Engineer. Rather, it may be necessary to place a minimum 12-inch thick base of clean No. 1 and No. 2 crushed stone to stabilize the subgrades for construction and assist in dewatering, if necessary. The stone should be placed over a filter fabric such as Mirafi 140N or equivalent.

Structural Fill material used as backfill for the walls and undercuts of unsuitable materials from below the subgrade elevations should consist of suitable on-site sand or sand and gravel soils. Suitable on-site soils should have no particles larger than 4 inches and less than 15 percent, by weight, of material finer than a No. 200 mesh sieve. A Geotechnical Engineer should observe the site excavations and confirm the suitability of the on-site materials for reuse as Structural Fill.

The Structural Fill should be placed in uniform loose layers no more than about one foot thick where heavy vibratory compaction equipment is used. Smaller lifts should be used where hand operated equipment is required for compaction. Each lift placed to backfill subgrade undercuts should be compacted to not less than 95 percent of the maximum dry density for the soil which is established by the Modified Proctor Compaction Test, ASTM D1557. Structural Fill used as backfill for the walls should be compacted to at least 90 percent of the maximum dry density.

D. RETAINING WALL DESIGN PARAMETERS

The retaining walls should be designed to resist lateral earth pressures together with any applicable surcharge loads. Active earth pressures may be assumed for walls assuming that they are free to deflect as the backfill is placed and surcharge loads applied.

The following design parameters are provided to assist in determining the lateral wall loads, whichever apply. The listed design parameters include no factor of safety. They assume that the walls are backfilled with Structural Fill and drainage is provided for the backfill soils as detailed below. The design parameters also assume that the wall backfill is level. If sloping backfill conditions exist, the lateral earth pressure coefficients must be adjusted accordingly in the wall design.

Soils Angle of Internal Friction	30 degrees
Coefficient of At-Rest Earth Pressure	0.50
Coefficient of Active Earth Pressure	0.33
Coefficient of Passive Earth Pressure	3.00
Total Unit Weight of Soil	120 pcf (1900 kg/m^3)
Coefficient of Sliding Friction	0.45 (Walls 1, 3, & 5)
Coefficient of Sliding Friction	0.35 (Walls 2 & 4)

The foundations for the walls can be designed for a maximum net allowable bearing pressure equal to 4,000 pounds per square foot (190 kN/m^2). The subgrades for the foundations should be prepared as recommended in Section IV.C of this report, and in accord with any specific requirements for the proprietary walls that may be used.

A drain should be installed to prevent water from becoming trapped in the backfill soils and creating hydrostatic pressures on the walls. The drain should be as recommended by the wall manufacturer, and may typically consist of a nominal 4-inch diameter perforated PVC pipe embedded at the base of a minimum 12-inch wide column of clean crushed stone (Nos. 1 and 2 sized aggregates). The stone should be wrapped in a filter fabric (Mirafi 140N or equivalent) to inhibit siltation. Backfill soils behind the crushed stone drainage layer should consist of Structural Fill.

E. CONSTRUCTION MONITORING

The Geotechnical Engineer should be retained to monitor earthwork and bearing grade preparations for the retaining walls. It should be understood that the actual subsurface

conditions that exist across this site will only be known when the site is excavated. The presence of the Geotechnical Engineer during the earthwork and foundation construction phases will allow validation of the subsurface conditions assumed to exist for this study and the design recommended in this report.

We believe this construction sequence observation and testing should be provided by the Geotechnical Engineer of record as a consultant to the Owner, Architect or Construction Manager. We do not believe these services should be provided through the general or earthwork contractor. Dente Engineering should be retained to monitor earthwork and bearing grade preparations for foundations and floor slabs.

V. CLOSURE

This report was prepared for the Essex County DPW for specific application to the project site and construction planned based on a limited number of explorations at discrete locations. Dente Engineering should be retained during construction to validate that the actual site conditions are similar to those assumed for development of the recommendations contained in this report. Dente Engineering should also review plans and specifications related to foundations and earthwork prior to their release for bidding to confirm that the recommendations were properly interpreted and applied.

This report was prepared using methods and practices common to Geotechnical Engineering, no other warranties expressed or implied are made.

We appreciate the opportunity to be of service. Should questions arise or if we may be of any other service, please contact us at your convenience.

Yours Truly,
Dente Engineering, P.C.

Edward C. Gravelle, P.E.
Vice President

Fred A. Dente, P.E.
President

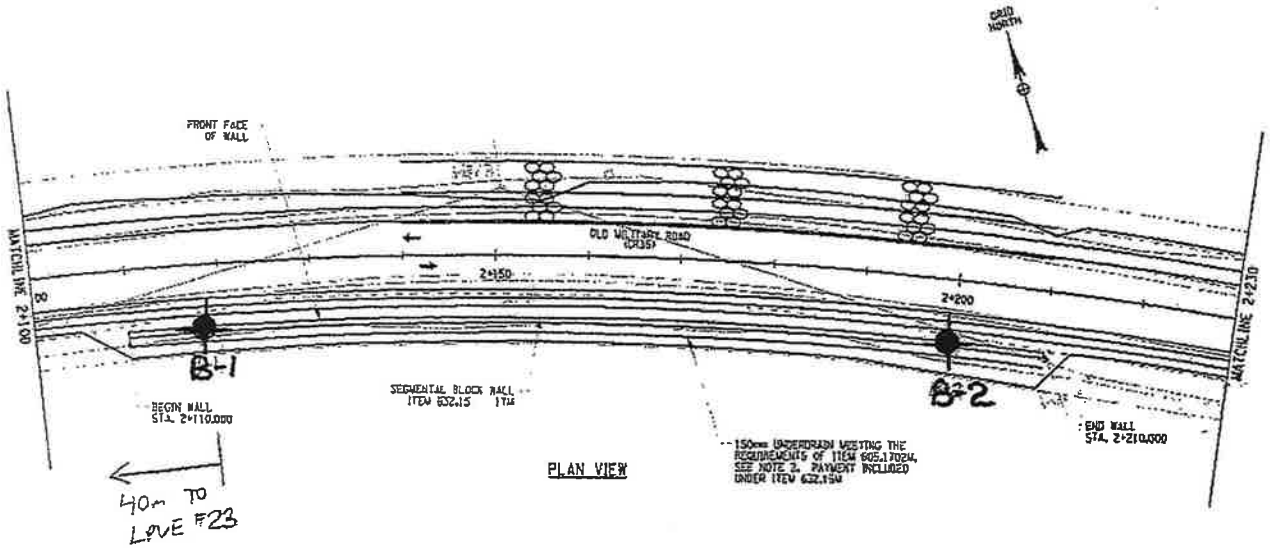
APPENDIX A
SUBSURFACE INVESTIGATION PLANS

Proposed Retaining Walls
Old Military Road Reconstruction
Essex County, New York

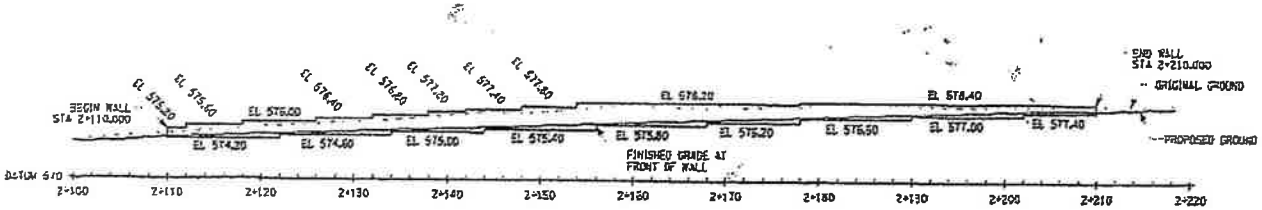
00598

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

P.I.N. 1754.96
OLD MILITARY ROAD (CR 351)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW



PROFILE VIEW

SEGMENTAL WALL NO. 1
AREA = 188 SQM

5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CORRECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL SYSTEM PROFILE DRAWING ASSUMES 200mm HIGH x 1000mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR THIS CHANGE.

AS BUILT REVISIONS

ADP SUBMISSION

SIGNATURE DATE

SEGMENTAL BLOCK RETAINING WALL NO. 1
PLAN AND ELEVATION

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Halcyon Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

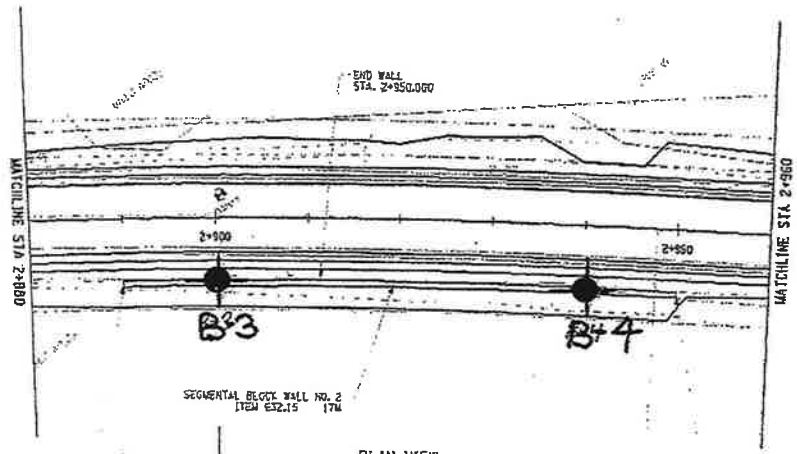
DOCUMENT NAME	REGION	DATE	DRAWING NO.
P_PROJRET_WALL.01	ONE	APRIL 2009	RW-3

DESIGN SUPERVISOR M. SHAW JOB MANAGER S. COBURNELL DESIGNED BY CHECKED BY ESTIMATED BY DRAFTED BY CHECKED BY

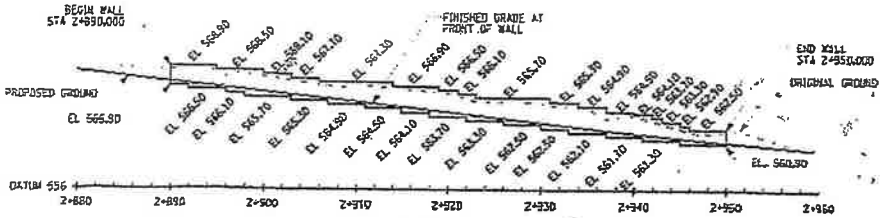
FILE NAME
DATE/TIME
USED

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TO SHEETS
I	N.Y.			

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW



PROFILE VIEW

SEGMENTAL WALL NO. 2
AREA = 149 SQM

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL SYSTEM PROFILE DRAWING ASSUMES 200mm HIGH x 1000mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR THIS CHANGE.

5 0 5 10 15 20 25
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

ADP SUBMISSION

SIGNATURE DATE

SEGMENTAL BLOCK RETAINING WALL NO. 2
PLAN AND ELEVATION

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hudson Square, 438 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING
*_PRO_RET_WALL_02	ONE	APRIL 2009	RW-4

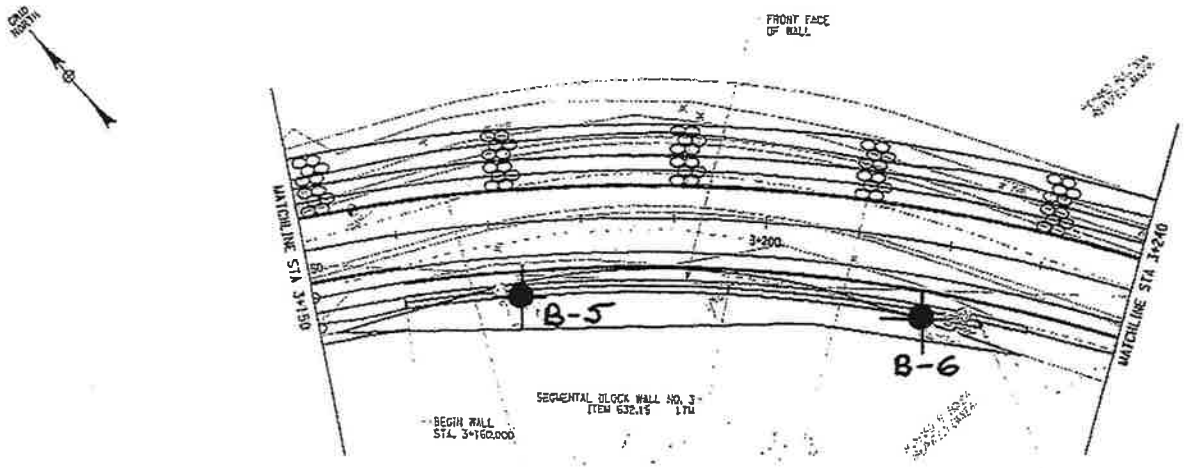
DESIGN SUPERVISOR B. SHAW — JOB MANAGER G. CUMMELLA — DESIGNED BY — CHECKED BY — ESTIMATED BY — DRAFTED BY — CHECKED BY

FILE NAME :
DATE/TIME :
USER :

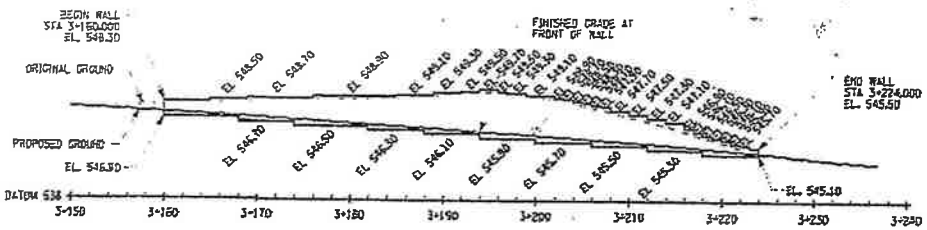
00533

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TO SHE
1	N.Y.			

P.I.N. 1754.56
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW



PROFILE VIEW

SEGMENTAL WALL NO. 3
AREA = 206 SQM

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL SYSTEM PROFILE DRAWING ASSUMES 200mm HIGH x 1000mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR THIS CHANGE.

SCALE 5 0 5 10 15 20 25

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

ADP SUBMISSION

SIGNATURE DATE

SEGMENTAL BLOCK RETAINING WALL NO. 3
PLAN AND ELEVATION

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 638 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

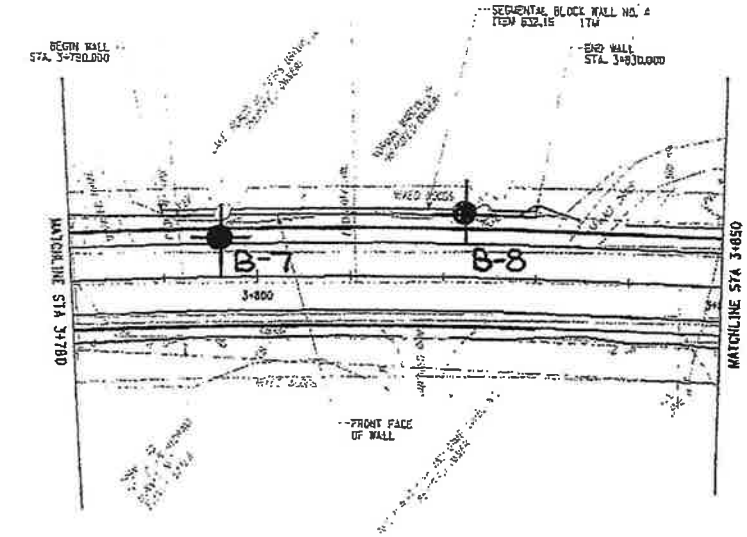
DOCUMENT NAME	REGION	DATE	DRAWING
P_PROJ_RET_WALL.DS	ONE	APRIL 2009	RW-5

DESIGN SUPERVISOR R. SHAW JOB MANAGER C. CORNWELL DESIGNED BY CHECKED BY ESTIMATED BY DRAFTED BY CHECKED BY

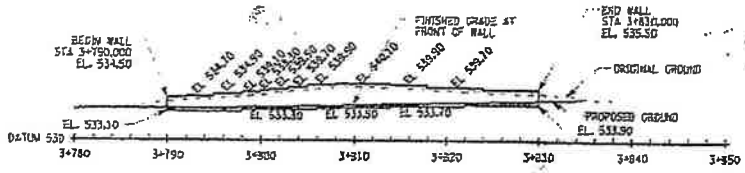
FILE NAME =
DATE/TIME =
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TO SHE
1	N.Y.			

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW



PROFILE VIEW

SEGMENTAL WALL NO. 4
AREA = 81 SQM

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL SYSTEM PROFILE DRAWING ASSUMES 200mm HIGH x 1000mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR THIS CHANGE.

5 0 5 10 15 20 25
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED
AS BUILT REVISIONS

ADP SUBMISSION

SIGNATURE DATE

SEGMENTAL BLOCK RETAINING WALL NO. 4
PLAN AND ELEVATION

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING
*_PRO_RET_WALL_04	ONE	APRIL 2009	RW-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER D. DOINWELL DESIGNED BY CHECKED BY ESTIMATED BY DRAFTED BY CHECKED BY

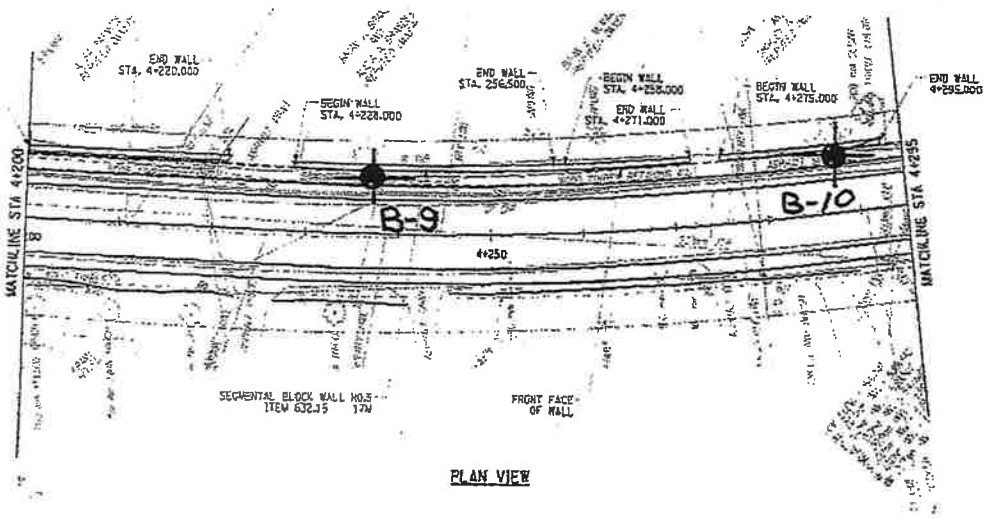
FILE NAME :
DATE/TIME :
USER :

00601

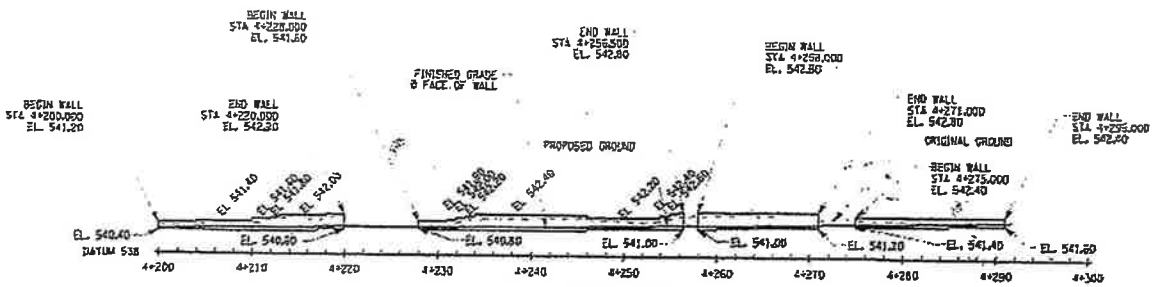
00602

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

P.I.N. 1754.95
OLD MILITARY ROAD RR 351
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW



PROFILE VIEW

SEGMENTAL WALL NO. 5
AREA = 98 SQM

5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL SYSTEM PROFILE DRAWING ASSUMES 200mm HIGH x 1000mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR THIS CHANGE.

AS BUILT REVISIONS

ADP SUBMISSION

SIGNATURE DATE

SEGMENTAL BLOCK RETAINING WALL NO. 5
PLAN AND ELEVATION

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Fort-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 408 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_PRO_RET_WALL.DS	ONE	APRIL 2009	RW-7

DESIGN SUPERVISOR R. SHAW JOB MANAGER C. COLUMBELL DESIGNED BY CHECKED BY ESTIMATED BY DRAFTED BY CHECKED BY

FILE NAME :
DATE/TIME :
USER :

APPENDIX B
SUBSURFACE LOGS & KEY
(English Units)

Proposed Retaining Walls
Old Military Road Reconstruction
Essex County, New York

ROCK CLASSIFICATIONS

Rock Classifications are visual descriptions on the basis of the Driller's, Technician's, Geologist's or Geotechnical Engineer's observations of the coring activity and the recovered samples applying the following classifications.

CLASSIFICATION TERM	DESCRIPTION
VERY HARD	NOT SCRATCHED BY KNIFE
HARD	SCRATCHED WITH DIFFICULTY
MEDIUM HARD	SCRATCHED EASILY
SOFT	SCRATCHED WITH FINGERNAIL
VERY WEATHERED	DISINTEGRATED WITH NUMEROUS SOIL SEAM
WEATHERED	SLIGHT DISINTEGRATION, STAINING, NO SEAMS
SOUND	NO EVIDENCE OF ABOVE
MASSIVE	ROCK LAYER GREATER THAN 36" THICK
THICK BEDDED	ROCK LAYER 12" - 36"
BEDDED	ROCK LAYER 4" - 12"
THIN BEDDED	ROCK LAYER 1" - 4"
LAMINATED	ROCK LAYER LESS THAN 1"
FRACTURES	NATURAL BREAKS AT SOME ANGLE TO BEDS

Core sample recovery is expressed as percent recovered of total sampled. The ROCK QUALITY DESIGNATION (RQD) is the total length of core sample pieces exceeding 4" length divided by the total core sample length for N size cored.

GENERAL

- Soil and Rock classifications are made visually on samples recovered. The presence of Gravel, Cobbles and Boulders will influence sample recovery classification density/consistency determination.
- Groundwater, if encountered, was measured and its depth recorded at the time and under the conditions as noted.
- Topsoil or pavements, if present, were measured and recorded at the time and under the conditions as noted.
- Stratification Lines are approximate boundaries between soil types. These transitions may be gradual or distinct and are approximated.

INTERPRETATION OF SUBSURFACE LOGS

The Subsurface Logs present observations and the results of tests performed in the field by the Driller, Technicians, Geologists and Geotechnical Engineers as noted. Soil/Rock Classifications are made visually, unless otherwise noted, on a portion of the materials recovered through the sampling process and may not necessarily be representative of the materials between sampling intervals or locations.

The following defines some of the terms utilized in the preparation of the Subsurface Logs.

SOIL CLASSIFICATIONS

Soil Classifications are visual descriptions on the basis of the Unified Soil Classification ASTM D-2487 and USBR, 1973 with additional comments by weight of constituents by BUHRMASTER. The soil density or consistency is based on the penetration resistance determined by ASTM METHOD D1586. Soil Moisture of the recovered materials is described as DRY, MOIST, WET or SATURATED.

SIZE DESCRIPTION		RELATIVE DENSITY/CONSISTENCY (basis ASTM D1586)			
SOIL TYPE	PARTICLE SIZE	GRANULAR SOIL		COHESIVE SOIL	
BOULDER	> 12	DENSITY	BLOWS/FT.	CONSISTENCY	BLOWS/FT.
COBBLE	3" - 12"	LOOSE	< 10	VERY SOFT	< 3
GRAVEL-COARSE	3" - 3/4"	FIRM	11 - 30	SOFT	4 - 5
GRAVEL - FINE	3/4" - #4	COMPACT	31 - 50	MEDIUM	6 - 15
SAND - COARSE	#4 - #10	VERY COMPACT	50 +	STIFF	16 - 25
SAND - MEDIUM	#10 - #40			HARD	25 +
SAND - FINE	#40 - #200				
SILT/NONPLASTIC	< #200				
CLAY/PLASTIC	< #200				

SOIL STRUCTURE		RELATIVE PROPORTION OF SOIL TYPES	
STRUCTURE	DESCRIPTION	DESCRIPTION	% OF SAMPLE BY WEIGHT
LAYER	6" THICK OR GREATER	AND	35 - 50
SEAM	6" THICK OR LESS	SOME	20 - 35
PARTING	LESS THAN 1/4" THICK	LITTLE	10 - 20
VARVED	UNIFORM HORIZONTAL PARTINGS OR SEAMS	TRACE	LESS THAN 10

Note that the classification of soils or soil like materials is subject to the limitations imposed by the size of the sampler, the size of the sample and its degree of disturbance and moisture.

00606

DENTE ENGINEERING, P.C.	SUBSURFACE LOG B-1

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/13/09	FINISH: 05/13/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	1	1				Brown Fine to Coarse SAND, Little Fine
				2	4	3	Gravel, Little Silt
	2	6	8				**(MOIST, LOOSE)**
				12	18	20	Tan Fine SAND, Some Silt, Little to trace
	3	17	15				gravel
5'				19	19	34	
	4	13	12				Grades no gravel
				11	11	23	
	5	8	11				Similar
				12	17	23	
10'	6	11	15				Similar
				21	25	36	
15'	7	13	19				Similar
				21	26	40	
20'	8	17	15				Grades Little Silt
				21	37	36	**(MOIST, FIRM TO COMPACT)**
							Boring Ended at 22.0'
25'							No measurable groundwater in augers at
							completion of drilling and sampling.

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-2**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/13/09	FINISH: 05/13/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	1	1				Brown Fine to Coarse SAND, Little Silt
				10	12	11	
	2	27	23				Similar, with Cobbles/Boulders noted by the driller
				40	50/.3'	63	
	3	37	50				Similar
5'				50/.4		100/.9	
	4	70	36				Similar
				27	19	63	**(MOIST, FIRM TO VERY COMPACT)**
	5	7	9				Tan Fine to Medium SAND, trace silt
				11	9	20	
10'	6	10	12				Grades Tan Fine SAND, Some Silt with Occasional Seams Brown SILT
				15	17	27	
15'	7	15	17				Grades Tan Fine SAND and SILT, with Thin Seams Brown SILT
				24	39	41	
20'	8	23	40				Grades Some Silt
				50/.4'		90/.9'	**(MOIST, FIRM TO VERY COMPACT)**
							Boring Ended at 21.4'
25'							No measurable groundwater in augers at completion of drilling and sampling.
							Boring was moved 57' from staked location towards B-1 to avoid overhead power lines.

00608

DENTE ENGINEERING, P.C.	SUBSURFACE LOG B-3

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/14/09	FINISH: 05/14/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	1	1				**FILL:** Brown Fine to Coarse SAND, Little
				2	2	3	Silt with Topsoil Layer at 1.0' to 1.2'
	2	5	9				Grades Brown SILT and Fine SAND, Little
				6	8	15	Gravel, Pine Needle Layer at ± 2.5'
	3	4	8				**(MOIST, LOOSE TO FIRM)**
5'				17	20	25	Brown SILT, Some Roots at ± 5'
	4	13	12				
				13	13	25	
	5	7	8				Similar
				10	8	18	
10'	6	9	11				Similar
				15	24	26	
	7	14	20				Similar, with Occasional Partings Tan Fine
				17	21	37	SAND **(MOIST, FIRM TO COMPACT)**
	8	20	20				Tan Fine SAND and SILT with Occasional
15'				20	25	40	Thin Seams Brown SILT
	9	26	24				Grades Some Silt
				26	36	50	**(MOIST, COMPACT)**
	10	14	24				Brown Varved SILT with Partings Tan Fine
				30	30	54	SAND
20'	11	32	32				Similar
				43	46	75	**(MOIST, VERY COMPACT)**
							Boring Ended at 22.0'
							No measurable groundwater in augers at
25'							completion of drilling and sampling.

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-4**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/14/09	FINISH: 05/14/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	1	10				**POSSIBLE FILL:** Brown Fine to Medium
				6	4	16	SAND, Little Gravel, trace silt **(MOIST)**
	2	5	2				Grades Fine SAND and SILT, Some Gravel
				2	6	4	**(VERY MOIST, FIRM)**
	3	8	16				Tan Fine SAND, Some Silt with Thin Seams
5'				20	27	36	Brown SILT
	4	27	43				Similar
				30	53	73	
	5	12	29				Grades Brown SILT with Occasional Thin
				29	36	58	Seams Tan Fine SAND, Some Silt
10'	6	15	24				Grades Brown SILT with Occasional
				27	50	51	Partings Tan Fine SAND
	7	50	48				Similar
				50/.4'		98/.9'	
15'	8	33	50/.4			50/.4'	Grades Tan Fine SAND, Little Silt
							Boulders noted by driller at ± 17'
							(MOIST, COMPACT TO VERY COMPACT)
	9	50/.1'				REF	Gray Rock Fragments **(DRY)**
20'							Boring Ended at 18.6'
							No measurable groundwater in augers at completion of drilling and sampling.
25'							Auger refusal met at 18.5' and sample spoon refusal at 18.6'.

00610

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-5**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/15/09	FINISH: 05/15/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	1	1/12"				Brown Fine SAND and SILT, Some Organic
				-	1	1	Matter, Poor Sample Recovery Noted
							(MOIST, LOOSE)
5'							
	2	9	11				Brown Fine to Medium SAND, trace silt with
				13	15	24	Occasional Thin Seams Brown SILT
	3	17	17				Similar
				15	15	32	
10'							
	4	14	16				Grades Tan Fine SAND, Some Silt with
				18	20	34	Occasional Thin Seams Brown SILT
	5	17	24				**(MOIST, FIRM TO COMPACT)**
				20	23	44	Brown Fine to Coarse SAND and GRAVEL,
	6	16	23				trace silt with Seams Brown SILT
15'							
				23	24	46	**(MOIST, COMPACT)**
	7	22	50/.4'			50/.4'	Tan Fine to Medium SAND, trace silt with
							Seams Brown SILT
	8	31	36				Grades Tan Fine SAND, Some Silt with
				48	50/.4'	84	Occasional Seams Brown SILT
20'							
	9	38	65				Similar
				50/.3'		115/.8'	**(MOIST, VERY COMPACT)**
							Boring Ended at 21.3'
25'							No measurable groundwater in augers at
							completion of drilling and sampling.
							Boring was moved 6' from staked location
							towards B-6 and 1.5' further from road to
							avoid overhead power lines.

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-6**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/15/09	FINISH: 05/15/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	4	6				Brown Fine to Coarse SAND and GRAVEL,
				11	11	17	trace silt, Cobbles/Boulders noted by the
	2	20	50/.4'			50/.4'	driller
	3	43	50/.2'			50/.2'	Grades Brown Fine to Medium SAND
5'	4	47	60				Grades Brown SILT with Partings Tan Fine
				40	50/.4'	100	to Medium SAND
	5	50/.4'				REF	Grades Brown Fine to Coarse SAND, Some
							Gravel, trace silt **(MOIST, VERY COMPACT)**
10'							Boring Ended at 9.5' with Auger Refusal
							No measurable groundwater in augers at
							completion of drilling and sampling.
15'							
							Boring was moved 18' from staked location
							towards B-5 and about 2' lower in elevation
							to avoid overhead power lines.
20'							Auger refusal was initially met at 7.0'. The
							boring was then moved 6' towards B-5 and
							continued to auger refusal and termination
							of the boring at 9.5'.
25'							

00612

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-7**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/19/09	FINISH: 05/19/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	1	2				Dark Brown Fine to Medium SAND, Little Gravel, trace silt
				3	4	5	
							(MOIST TO WET, LOOSE)
5'							
	2	35	30				Brown Fine to Coarse SAND and GRAVEL, Little to Some Silt
				32	35	62	
	3	27	20				Similar
				23	30	43	
	4	27	43				Similar
10'				50/.2'		93/.7'	
	5	50/.1'					**(WET, VERY COMPACT TO COMPACT)**
							Boring Ended at 12.5' with Auger Refusal
15'							
							Groundwater first encountered at a depth of about 1.5' based on recovery of wet soils.
							Boring was moved from staked location to the edge of pavement due to steep hill. The boring was about 3' lower in elevation than the staked location.
20'							
							Sample spoon refusal was met at 12.1' and auger refusal at 12.5'.
25'							

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-8.1**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/19/09	FINISH: 05/19/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	1	WH	1				Dark Orangish Brown Fine SAND and SILT,
				4	5	5	trace organic matter
							(MOIST, LOOSE)
5'	2	6	11				Brown SILT with Seams Brown Fine to
				12	15	23	Medium SAND
	3	14	14				Grades No Sand Seams
				17	21	31	
	4	28	30				Grades Grayish Brown SILT with Occasional
10'				32	34	62	Seams Brown Fine to Medium SAND
	5	23	36				Grades Grayish Brown Varved SILT
				48	50/.3'	84	
15'	6	32	38				Similar
				50		88	
20'	7	22	30				Similar
				50/.3		80/.8'	
25'	8	37	50/.4'			50/.4'	Similar
							(WET, FIRM TO VERY COMPACT)

00614

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-8.2**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/19/09	FINISH: 05/19/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
	9	33	50/.4'			50/.4'	Grayish Brown Varved SILT **(WET)**
							Boring Ended at 30.9'
							Groundwater first encountered at about 3' to 5' below grade based on recovery of wet soils.
35'							
							Boring was moved 5' from staked location towards B-7 and 2' nearer to the road. The actual boring location was about 1' lower in elevation than the staked location.
40'							
45'							
50'							
55'							

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-9**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/18/09	FINISH: 05/18/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
							4.5" ASPHALT SIDEWALK
	1	1	2				Tan Fine to Medium SAND, Little Gravel,
				4	5	6	trace silt
	2	8	20				Grades Some Gravel
				21	50/.2'	41	
5'	3	15	50/.4'			50/.4'	Grades Tan Fine SAND, Little to trace silt
	4	4	7				Similar, Becomes **WET** at ± 8'
				9	11	16	
	5	9	10				Similar
10'				11	14	21	
	6	10	9				Similar
				12	13	21	
							(MOIST TO WET, LOOSE TO COMPACT)
15'	7	9	14				
				25	35	39	Brown Varved SILT
20'	8	7	18				Similar
				40	55	58	**(MOIST, VERY COMPACT)**
							Boring Ended at 22.0'
							Groundwater first encountered about 8'
25'							below grade based on recovery of wet soils.

00616

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-10**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/18/09	FINISH: 05/18/09

LOCATION: Essex County, New York	**METHODS:** 2-1/4" I.D. Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH	#	6"	12"	18"	24"	N	
							4" ASPHALT SIDEWALK
	1	1	2				**POSSIBLE FILL:** Brown Fine to Medium
				4	5	6	SAND, Little Silt
	2	25	50/.4'			50/.4'	Grades Fine to Coarse SAND and GRAVEL,
5'							trace silt with Cobbles/Boulders noted by
	3	18	33				the driller
				29	38	62	**(MOIST, LOOSE TO VERY COMPACT)**
	4	50/.4'				REF	Brown Fine to Medium SAND, Little Silt,
							trace organic matter
	5	27	47				Grades Brown Fine to Medium SAND, Some
10'				44	63	91	Gravel, trace silt
	6	19	29				Grades trace gravel, Becomes **WET**
				36	50	65	
15'	7	67	50				Grades Some Gravel
				50/.4'		100/.9'	
							(MOIST TO WET, VERY COMPACT)
20'	8	33	50/.4'			50/.4'	Grades trace gravel
							Boring Ended at 20.9'
25'							Groundwater in augers at 10.5' below grade at completion of drilling and sampling.

APPENDIX C
SUBSURFACE LOGS & KEY
(SI Units)

Proposed Retaining Walls
Old Military Road Reconstruction
Essex County, New York

ROCK CLASSIFICATIONS

Rock Classifications are visual descriptions on the basis of the Driller's, Technician's, Geologist's or Geotechnical Engineer's observations of the coring activity and the recovered samples applying the following classifications.

CLASSIFICATION TERM	DESCRIPTION
VERY HARD	NOT SCRATCHED BY KNIFE
HARD	SCRATCHED WITH DIFFICULTY
MEDIUM HARD	SCRATCHED EASILY
SOFT	SCRATCHED WITH FINGERNAIL
VERY WEATHERED	DISINTEGRATED WITH NUMEROUS SOIL SEAM
WEATHERED	SLIGHT DISINTEGRATION, STAINING, NO SEAMS
SOUND	NO EVIDENCE OF ABOVE
MASSIVE	ROCK LAYER GREATER THAN 36" THICK
THICK BEDDED	ROCK LAYER 12" - 36"
BEDDED	ROCK LAYER 4" - 12"
THIN BEDDED	ROCK LAYER 1" - 4"
LAMINATED	ROCK LAYER LESS THAN 1"
FRACTURES	NATURAL BREAKS AT SOME ANGLE TO BEDS

Core sample recovery is expressed as percent recovered of total sampled. The ROCK QUALITY DESIGNATION (RQD) is the total length of core sample pieces exceeding 4" length divided by the total core sample length for N size cored.

GENERAL

- Soil and Rock classifications are made visually on samples recovered. The presence of Gravel, Cobbles and Boulders will influence sample recovery classification density/consistency determination.
- Groundwater, if encountered, was measured and its depth recorded at the time and under the conditions as noted.
- Topsoil or pavements, if present, were measured and recorded at the time and under the conditions as noted.
- Stratification Lines are approximate boundaries between soil types. These transitions may be gradual or distinct and are approximated.

INTERPRETATION OF SUBSURFACE LOGS

The Subsurface Logs present observations and the results of tests performed in the field by the Driller, Technicians, Geologists and Geotechnical Engineers as noted. Soil/Rock Classifications are made visually, unless otherwise noted, on a portion of the materials recovered through the sampling process and may not necessarily be representative of the materials between sampling intervals or locations.

The following defines some of the terms utilized in the preparation of the Subsurface Logs.

SOIL CLASSIFICATIONS

Soil Classifications are visual descriptions on the basis of the Unified Soil Classification ASTM D-2487 and USBR, 1973 with additional comments by weight of constituents by BUHRMASTER. The soil density or consistency is based on the penetration resistance determined by ASTM METHOD D1586. Soil Moisture of the recovered materials is described as DRY, MOIST, WET or SATURATED.

SIZE DESCRIPTION		RELATIVE DENSITY/CONSISTENCY (basis ASTM D1586)			
SOIL TYPE	PARTICLE SIZE	GRANULAR SOIL		COHESIVE SOIL	
BOULDER	> 12	DENSITY	BLOWS/FT.	CONSISTENCY	BLOWS/FT.
COBBLE	3" - 12"	LOOSE	< 10	VERY SOFT	< 3
GRAVEL-COARSE	3" - 3/4"	FIRM	11 - 30	SOFT	4 - 5
GRAVEL - FINE	3/4" - #4	COMPACT	31 - 50	MEDIUM	6 - 15
SAND - COARSE	#4 - #10	VERY COMPACT	50 +	STIFF	16 - 25
SAND - MEDIUM	#10 - #40			HARD	25 +
SAND - FINE	#40 - #200				
SILT/NONPLASTIC	< #200				
CLAY/PLASTIC	< #200				

SOIL STRUCTURE		RELATIVE PROPORTION OF SOIL TYPES	
STRUCTURE	DESCRIPTION	DESCRIPTION	% OF SAMPLE BY WEIGHT
LAYER	6" THICK OR GREATER	AND	35 - 50
SEAM	6" THICK OR LESS	SOME	20 - 35
PARTING	LESS THAN 1/4" THICK	LITTLE	10 - 20
VARVED	UNIFORM HORIZONTAL PARTINGS OR SEAMS	TRACE	LESS THAN 10

Note that the classification of soils or soil like materials is subject to the limitations imposed by the size of the sampler, the size of the sample and its degree of disturbance and moisture.

00620

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-1**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/13/09	FINISH: 05/13/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
	1	1	1				Brown Fine to Coarse SAND, Little Fine
				2	4	3	Gravel, Little Silt
	2	6	8				**(MOIST, LOOSE)**
				12	18	20	Tan Fine SAND, Some Silt, Little to trace
	3	17	15				gravel
1.5				19	19	34	
	4	13	12				Grades no gravel
				11	11	23	
	5	8	11				Similar
				12	17	23	
3.0	6	11	15				Similar
				21	25	36	
4.5	7	13	19				Similar
				21	26	40	
6.0	8	17	15				Grades Little Silt
				21	37	36	**(MOIST, FIRM TO COMPACT)**
							Boring Ended at 6.71m
7.5							No measurable groundwater in augers at completion of drilling and sampling.

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-2**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/13/09	FINISH: 05/13/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60cm	N	
	1	1	1				Brown Fine to Coarse SAND, Little Silt
				10	12	11	
	2	27	23				Similar, with Cobbles/Boulders noted by
				40	50/9	63	the driller
	3	37	50				Similar
1.5				50/12		100/2	
	4	70	36				Similar
				27	19	63	**(MOIST, FIRM TO VERY COMPACT)**
	5	7	9				Tan Fine to Medium SAND, trace silt
				11	9	20	
3.0	6	10	12				Grades Tan Fine SAND, Some Silt with
				15	17	27	Occasional Seams Brown SILT
4.5	7	15	17				Grades Tan Fine SAND and SILT, with Thin
				24	39	41	Seams Brown SILT
6.0	8	23	40				Grades Some Silt
				50/12		90/27	**(MOIST, FIRM TO VERY COMPACT)**
							Boring Ended at 6.52m
7.5							No measurable groundwater in augers at completion of drilling and sampling.
							Boring was moved 17.4m from stake towards B-1 to avoid overhead power lines.

00022

DENTE ENGINEERING, P.C.	SUBSURFACE LOG B-3		
PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/14/09	FINISH: 05/14/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
	1	1	1				**FILL:** Brown Fine to Coarse SAND, Little
				2	2	3	Silt with Topsoil Layer at 0.30m to 0.36m
	2	5	9				Grades Brown SILT and Fine SAND, Little
				6	8	15	Gravel, Pine Needle Layer at ± 0.76m
	3	4	8				**(MOIST, LOOSE TO FIRM)**
1.5				17	20	25	Brown SILT, Some Roots at ± 1.5 m
	4	13	12				
				13	13	25	
	5	7	8				Similar
				10	8	18	
3.0	6	9	11				Similar
				15	24	26	
	7	14	20				Similar, with Occasional Partings Tan Fine
				17	21	37	SAND **(MOIST, FIRM TO COMPACT)**
	8	20	20				Tan Fine SAND and SILT with Occasional
4.5				20	25	40	Thin Seams Brown SILT
	9	26	24				Grades Some Silt
				26	36	50	**(MOIST, COMPACT)**
	10	14	24				Brown Varved SILT with Partings Tan Fine
				30	30	54	SAND
6.0	11	32	32				Similar
				43	46	75	**(MOIST, VERY COMPACT)**
							Boring Ended at 6.71m
7.5							No measurable groundwater in augers at completion of drilling and sampling.

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-4**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/14/09	FINISH: 05/14/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
	1	1	10				**POSSIBLE FILL:** Brown Fine to Medium
				6	4	16	SAND, Little Gravel, trace silt **(MOIST)**
	2	5	2				Grades Fine SAND and SILT, Some Gravel
				2	6	4	**(VERY MOIST, FIRM)**
	3	8	16				Tan Fine SAND, Some Silt with Thin Seams
1.5				20	27	36	Brown SILT
	4	27	43				Similar
				30	53	73	
	5	12	29				Grades Brown SILT with Occasional Thin
				29	36	58	Seams Tan Fine SAND, Some Silt
3.0	6	15	24				Grades Brown SILT with Occasional
				27	50	51	Partings Tan Fine SAND
	7	50	48				Similar
				50/12		98/27	
4.5	8	33	50/12			50/12	Grades Tan Fine SAND, Little Silt
							Boulders noted by driller at ± 5.2m
							(MOIST, COMPACT TO VERY COMPACT)
	9	50/3				REF	Gray Rock Fragments **(DRY)**
6.0							Boring Ended at 5.67m
							No measurable groundwater in augers at completion of drilling and sampling.
7.5							Auger refusal met at 5.64m and sample spoon refusal at 5.67m.

00624

DENTE ENGINEERING, P.C.	SUBSURFACE LOG B-5

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/15/09	FINISH: 05/15/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
	1	1	1/30				Brown Fine SAND and SILT, Some Organic
				-	1	1	Matter, Poor Sample Recovery Noted
							(MOIST, LOOSE)
1.5	2	9	11				Brown Fine to Medium SAND, trace silt with
				13	15	24	Occasional Thin Seams Brown SILT
	3	17	17				Similar
3.0				15	15	32	
	4	14	16				Grades Tan Fine SAND, Some Silt with
				18	20	34	Occasional Thin Seams Brown SILT
	5	17	24				**(MOIST, FIRM TO COMPACT)**
				20	23	44	Brown Fine to Coarse SAND and GRAVEL,
	6	16	23				trace silt with Seams Brown SILT
4.5				23	24	46	**(MOIST, COMPACT)**
	7	22	50/12'			50/12	Tan Fine to Medium SAND, trace silt with
							Seams Brown SILT
	8	31	36				Grades Tan Fine SAND, Some Silt with
6.0				48	50/12	84	Occasional Seams Brown SILT
	9	38	65				Similar
				50/9		115/2	**(MOIST, VERY COMPACT)**
							Boring Ended at 6.49m
7.5							No measurable groundwater in augers at completion of drilling and sampling.
							Boring was moved 2m from staked location towards B-6 and 0.5m further from road to avoid overhead power lines.

DENTE ENGINEERING, P.C.	SUBSURFACE LOG B-6

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/15/09	FINISH: 05/15/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
	1	4	6				Brown Fine to Coarse SAND and GRAVEL,
				11	11	17	trace silt, Cobbles/Boulders noted by the
	2	20	50/12			50/12	driller
	3	43	50/6			50/6	Grades Brown Fine to Medium SAND
1.5	4	47	60				Grades Brown SILT with Partings Tan Fine
				40	50/12	100	to Medium SAND
	5	50/12				REF	Grades Brown Fine to Coarse SAND, Some
							Gravel, trace silt **(MOIST, VERY COMPACT)**
3.0							Boring Ended at 2.9m with Auger Refusal
							No measurable groundwater in augers at
							completion of drilling and sampling.
4.5							Boring was moved 5.5m from stake
							towards B-5 and about 0.6m lower in
							elevation to avoid overhead power lines.
6.0							Auger refusal was initially met at 2.13m. The
							boring was then moved 2m towards B-5 and
							continued to auger refusal and termination
							of the boring at 2.9m.
7.5							

00626

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-7**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/19/09	FINISH: 05/19/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
	1	1	2				Dark Brown Fine to Medium SAND, Little
				3	4	5	Gravel, trace silt
							(MOIST TO WET, LOOSE)
1.5							
	2	35	30				Brown Fine to Coarse SAND and GRAVEL,
				32	35	62	Little to Some Silt
	3	27	20				Similar
				23	30	43	
	4	27	43				Similar
3.0				50/6		93/21	
	5	50/3					**(WET, VERY COMPACT TO COMPACT)**
							Boring Ended at 3.81m with Auger Refusal
4.5							
							Groundwater first encountered at a depth of about 0.46m based on recovery of wet soils.
							Boring was moved from staked location to the edge of pavement due to steep hill. The boring was about 1m lower in elevation than the staked location.
6.0							
							Sample spoon refusal was met at 3.69m and auger refusal at 3.81m.
7.5							

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-8.1**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/19/09	FINISH: 05/19/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
	1	WH	1				Dark Orangish Brown Fine SAND and SILT,
				4	5	5	trace organic matter
							(MOIST, LOOSE)
1.5	2	6	11				Brown SILT with Seams Brown Fine to
				12	15	23	Medium SAND
	3	14	14				Grades No Sand Seams
				17	21	31	
	4	28	30				Grades Grayish Brown SILT with Occasional
3.0				32	34	62	Seams Brown Fine to Medium SAND
	5	23	36				Grades Grayish Brown Varved SILT
				48	50/9	84	
4.5	6	32	38				Similar
				50		88	
6.0	7	22	30				Similar
				50/9		80/24	
7.5	8	37	50/12			50/12	Similar
							(WET, FIRM TO VERY COMPACT)

00623

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-8.2**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/19/09	FINISH: 05/19/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
	9	33	50/12			50/12	Grayish Brown Varved SILT **(WET)**
							Boring Ended at 9.42m
							Groundwater first encountered at about to 1.5m below grade based on recovery of wet soils.
10.5							
							Boring was moved 1.5m from stake location towards B-7 and 0.6m nearer to the road. The actual boring location was about 0.3m lower in elevation than the staked location.
12.0							
13.5							
15.0							
16.5							

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-9**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/18/09	FINISH: 05/18/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
							11.5cm ASPHALT SIDEWALK
	1	1	2				Tan Fine to Medium SAND, Little Gravel,
				4	5	6	trace silt
	2	8	20				Grades Some Gravel
				21	50/6	41	
1.5	3	15	50/12			50/12	Grades Tan Fine SAND, Little to trace silt
	4	4	7				Similar, Becomes **WET** at ± 2.44m
				9	11	16	
	5	9	10				Similar
3.0				11	14	21	
	6	10	9				Similar
				12	13	21	
							(MOIST TO WET, LOOSE TO COMPACT)
4.5	7	9	14				
				25	35	39	Brown Varved SILT
6.0	8	7	18				Similar
				40	55	58	**(MOIST, VERY COMPACT)**
							Boring Ended at 6.71m
							Groundwater first encountered about 2.44m
7.5							below grade based on recovery of wet soils.

00630

DENTE ENGINEERING, P.C.	SUBSURFACE LOG **B-10**

PROJECT: Old Military Road Retaining Walls	**DATE**	START: 05/18/09	FINISH: 05/18/09

LOCATION: Essex County, New York	**METHODS:** 60 mm ID.Hollow Stem Augers
CLIENT: Essex County DPW	with ASTM D1586 Sampling
JOB NUMBER: FDE-09-073	**SURFACE ELEVATION:**
DRILL TYPE: CME 55 ATV Mounted Drill Rig	**CLASSIFICATION:** E. Gravelle, P.E.

SAMPLE		BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
DEPTH (Meter)	#	15 cm	30 cm	45 cm	60 cm	N	
							11.5cm ASPHALT SIDEWALK
	1	1	2				**POSSIBLE FILL:** Brown Fine to Medium
				4	5	6	SAND, Little Silt
	2	25	50/12			50/12	Grades Fine to Coarse SAND and GRAVEL,
1.5							trace silt with Cobbles/Boulders noted by
	3	18	33				the driller
				29	38	62	**(MOIST, LOOSE TO VERY COMPACT)**
	4	50/12				REF	Brown Fine to Medium SAND, Little Silt,
							trace organic matter
	5	27	47				Grades Brown Fine to Medium SAND, Some
3.0				44	63	91	Gravel, trace silt
	6	19	29				Grades trace gravel, Becomes **WET**
				36	50	65	
4.5	7	67	50				Grades Some Gravel
				50/12		100/2	
							(MOIST TO WET, VERY COMPACT)
6.0	8	33	50/12			50/12	Grades trace gravel
							Boring Ended at 6.37m
7.5							Groundwater in augers at 3.2m below grade at completion of drilling and sampling.

HISTORIC ROADWAY SCOPE OF WORK

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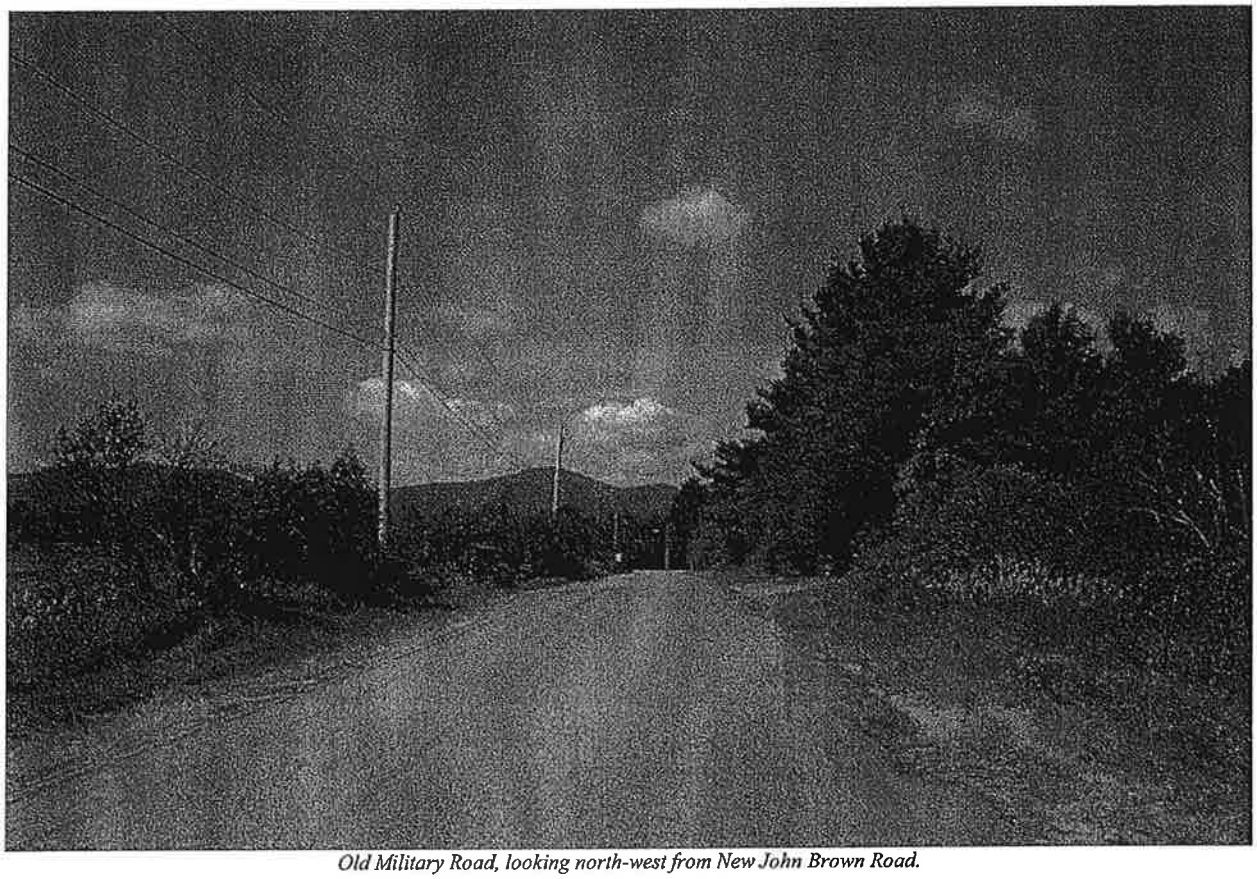
Reconstruction/Rehabilitation of Old Military Road (CR35) from Rt. 86 to John Brown Road, Village of Lake Placid and Town of North Elba, Essex County, NY

Historic Roadway Scope-of-Work
2009
OPRHP 06PR03491



Old Military Road, looking north-west from New John Brown Road.

Prepared For: Essex County, New York
Sponsors: FHWA, NYSDOT, APA

Report Author(s): Dr. Ann Morton, Morton Archaeological Research Services
Date of Report: May 27, 2009

I. EXECUTIVE SUMMARY

Reconstruction/Rehabilitation of Old Military Road (CR35) from Rt. 86 to John Brown Road, Village of Lake Placid and Town of North Elba, Essex County, NY

Historic Roadway Scope-of-Work
2009

SHPO Project Review Number :	06PR003491
Involved State and Federal Agencies:	FHWA, NYSDOT, APA
Phase of Survey:	Historic Roadway Scope of Work (Phase III)

Location Information

Location:	Old Military Road (CR 35) between Carolyn Road and New John Brown Rd
Minor Civil Division:	Village of Lake Placid, and Town of North Elba
County:	Essex County, New York

Survey Area (Metric & English)

Length:	Alternative 2: 3.0 miles, 4857m, 15, 935 ft.
Width:	averages 15m, 50ft.; max. of 50m (165 ft.) at Chubb Bridge
Depth: (when appropriate):	N/A
Number of Acres Surveyed:	12.6

USGS 7.5 Minute Quadrangle Map: Lake Placid, Saranac Lake

Sensitivity Assessment (Phase IA)

Prehistoric:	Low to very low
Historic:	Low to moderate

Phase I Results

No prehistoric or historic sites identified by archaeological survey. No buildings identified as S/NR eligible. No buildings will be impacted by project. No further work recommended in regard to Old Military Road ROW or historic buildings.

Old Military Road is S/NR eligible. May be impacted by project. Monitoring during construction recommended in areas where depth of construction might potentially impact intact roadway.

OPRHP Recommendations (June-August 2008)

No concerns regarding impacts to non-archaeological resources. Recommends development of Historic Scope of Work for identification and data recovery of construction history of historic roadway, approved prior to construction and implemented as approved.

Historic Roadway Scope of Work Recommendations

Investigation of four sections of historic Old Military Road, two in each phase, prior to construction in those specific areas. Recommended areas (plus two alternates) listed below. Units to be approximately 5m x 2m, perpendicular to and across south travel lane. Depth to base of original roadway or to top of wooden roadway, if extant, with potential 2.5m (8 ft.).

Phase 1 Locations.

1a. 544 Old Military Road, between Sta. 2+695 and 2+725. From centerline to ROW edge on south side of road. Primary objective is identification of earlier roadway alignment, if possible. This location is in an area of vertical profile reduction and utilities relocation, and it is a primary location for potential identification of the earlier road. It is also relatively free of identified utilities on the south side, and has good visibility for traffic.

1b. 544 Old Military Road, between Sta. 2+880 and 2+900. From centerline to ROW edge on south side of road. Primary objective is identification of earlier roadway alignment, if possible. This location is an alternative to 1a—it is less desirable as it is on a steeper slope and has poorer visibility for traffic. This area will be reduced in vertical profile and have utilities relocated.

2. 12 Station Road/5Averyville Road, between Sta. 4+140 and 4+160. From centerline south to ROW edge on south side of road. Primary objective is potential recovery of organic remains as identified in DAH-10. Additionally, this area is at the junction of Old Military Road and Averyville Road and has historic interest for the early development of settlement in the area. This area will be reduced in vertical profile and have utilities relocated.

Phase 2 Locations.
3. 3 Stagecoach Way, between Sta. 4+835 and 4+855. From centerline south to ROW edge on south side of road. Primary objective is potential recovery of organic remains as identified in DAH-12. Additionally this area has historic interest as location of early inn for travelers. This area is relatively free of existing utilities and has significant potential archaeological interest.

4a. 132 Old Military Road, between Sta. 5+870 and 5+940. From centerline south to ROW edge on south side of road. Primary objective is identification of road construction phases in a "dryer" location. This location is relatively free of utilities, and will have vertical profile reduction and utilities relocation.

4b. 293 Old Military Road, between Sta. 4+540 and 4+560. From centerline south to ROW edge on south side of road. Primary objective is identification of road construction phases in a "dryer" location. Location also has interest as site of early settlement along Old Military Road (293 Old Military Road c. 1875, 288 Old Military Road probably M Brewster, 1876, post office c. 1858). This location has good visibility for traffic.

Timing for archaeological excavation of units in Phase 1 and Phase 2 project areas will be coordinated with construction requirements. It is anticipated that the archaeological investigations will be part of the overall sequence of construction phasing, but that construction work in areas designated for archaeological investigation will not be undertaken until the Data Recovery report has been reviewed by OPRHP.

The final report will be in the format of a Data Recovery report, as specified in the NYSED-NYSDOT Cultural Resource Investigations Work Scope, 2004. It is anticipated that the final report will be complete within a month of the end of fieldwork. Dependent on construction phasing and timing needs, the final report may be submitted in two parts, to correspond with the two project phases. It is anticipated that each part can be reviewed and approved separately.

II. MANAGEMENT SUMMARY—From Phase 1 Report (March 29, 2008).

Old Military Road (County Road 35) Reconstruction, Lake Placid,
North Elba, Essex County, NY

SHPO Project Review Number (if available):	06PR003491
Involved State and Federal Agencies:	FHWA, NYSDOT, APA
Phase of Survey:	Phase 1

Location Information

Location:	Old Military Road (CR 35) between Carolyn Road and New John Brown Rd
Minor Civil Division:	Village of Lake Placid, and Town of North Elba
County:	Essex County, New York

Survey Area (Metric & English)

Length:	3.0 miles, 4857m, 15, 935 ft.
Width:	averages 15m, 50ft.; max. of 50m (165 ft.) at Chubb Bridge
Depth: (when appropriate):	N/A
Number of Acres Surveyed:	12.6
Number Square Meters & Feet Excavated (Phase II, III only):	N/A
Percentage of Site Excavated (Phase II, Phase III only):	N/A

USGS 7.5 Minute Quadrangle Map: Lake Placid, Saranac Lake

Sensitivity Assessment (Phase IA)

Prehistoric:	Low to very low
Historic:	Low to moderate

Archaeological Survey Overview

Number & Interval of Shovel Tests:	118 shovel tests, at 15m (50 ft.) intervals
Number & Size of Units:	N/A
Width of Plowed Strips:	N/A
Surface Survey Transect Interval:	N/A

Results of Archaeological Survey

Number & name of prehistoric sites identified:	NONE
Number & name of historic sites identified:	NONE
Number & name of sites recommended for Phase II/Avoidance:	NONE

Results of Architectural Survey (Phase IA)

Number of buildings/structures/cemeteries within/adjacent to the project area	106
Number of MDS identified within/adjacent to the project area	8
Number of known SR/NR listed/eligible buildings/structures within/adjacent to the project area	9
Number of historic buildings/structures/cemeteries identified within the project area	41
Number of SR/NR recommended eligible buildings/structures/cemeteries	NONE
Number of SR/NR recommended eligible/listed structures etc.. to be impacted	NONE

Report Author(s):	Dr. Ann Morton
Date of Report:	March 29, 2008

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Old Military Road Reconstruction/Rehabilitation Project Description

The Old Military Road (CR35) Reconstruction Project includes Old Military Road from Carolyn Road to New John Brown Road in the Village of Lake Placid and Town of North Elba, Essex County. The reconstruction will be divided into two phases: Phase 1 beginning at Sta. 1+800, approximately 660 Old Military Road, at the north-west project limit just to the west of Carolyn Road, and ending just east of Averyville Road at Sta. 4+190, 346 Old Military Road, and phase 2 adjoining Phase 1 and continuing to the south-east project limit at Sta. 6+650, 42 Old Military Road at New John Brown Road. This assessment is being conducted on behalf of Essex County, in response to requirements of the Federal Highway Administration (FHWA), the New York State Department of Transportation (NYSDOT) and the Adirondack Park Agency (APA).

The project is a full depth road reconstruction with the installation or replacement of curbing, sidewalks and some utilities. Some straightening of existing curves both horizontally and vertically, and realignment of intersections is also anticipated. The project has an APE length of 3.0 miles total including short stretches of Averyville Road, John Brown Road, and several small side roads. The width of potential impacts is mainly within the existing ROW of Old Military Road (20m, 66 ft.), with the exception of the Chubb River, where impacts with will be approximately 50m and Averyville Rd. where impact width will be approximately 35 m. There will be minor impacts beyond the ROW associated with horizontal and vertical straightening of curves at 491 Old Military Road (starting at sta. 3+150 and continuing along south side to sta. 3+230.000, and again approx. sta. 3+275.000 and continuing along south side of road to approx. sta. 3+320.000). At Bear Cub Lane, a portion of the southeast quadrant of intersection will also be taken for turn radius.

Impact depth, based on section profiles will be 25cm or less over the majority of the project area. Some sections will include reconstruction depths of 50cm, and a few, notably at the Chubb River Bridge replacement, will have depths of 1m or more. Soil borings indicate that the current asphalt and substrate average 40cm in depth, so the majority of road impacts will be within the existing (most recent) road surface and base.

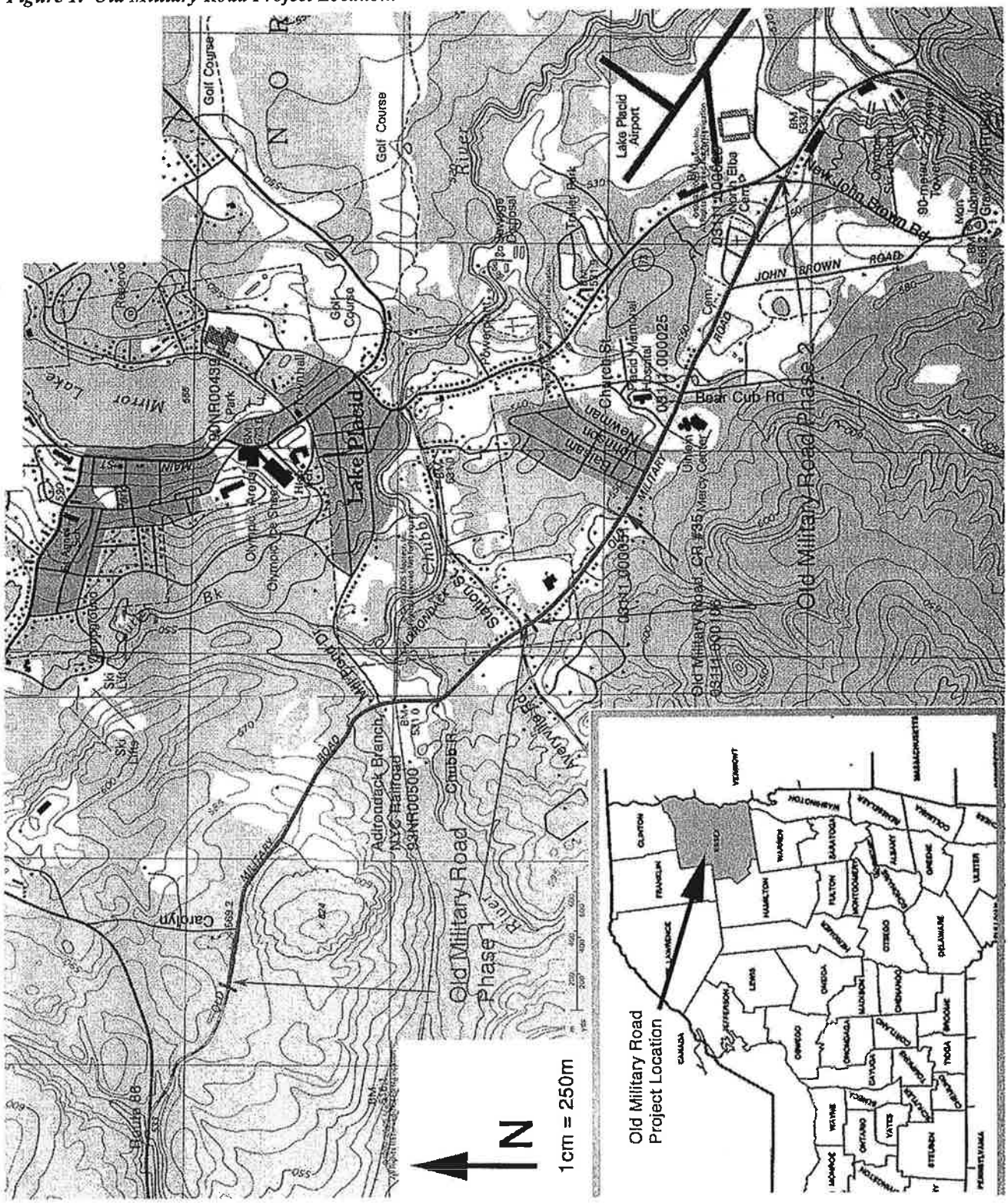
Historic Roadway Scope of Work Introduction

A Phase I archaeological and architectural survey was conducted in August 2006. Background research indicated that the potential for prehistoric sites within the project area was low to very low, and the potential for historic sites was low to moderate. Archaeological survey was conducted in the ROW, including surface survey and subsurface testing. The survey recovered no prehistoric period artifacts, and a small number of historic artifacts, primarily of recent (mid-late 20th century) time period. There were no significant concentrations of artifacts recovered, and no structures or other features were encountered. Based on these findings, no archaeological sites, either prehistoric or historic, were identified. No further work was recommended with regard to the project ROW.

The architectural background investigation identified nine S/NR listed or eligible resources within or adjacent to the project area. Architectural field survey did not identify any additional potentially S/NR eligible structures. No historic resources will be directly impacted by the project. Modifications to the historic viewshed appear limited to the installation of curbs and sidewalks. Total impacts to the historic viewshed were judged to be minimal, and no further work was recommended.

The Old Military Road itself is a S/NR eligible structure. Archaeological surface survey and subsurface testing did not identify any features, structures, deposits or artifacts related to the construction or use of the Old Military Road in the ROW, nor was any evidence of this nature identified or recovered by previous surveys. Consultation with the NYSM-CRPS indicated that it is likely the earlier period road is narrower than the existing road, and thus it is unlikely to encounter evidence of the earlier road in the present ROW. Soil borings taken along the length of the Old Military Road were generally negative with regard to any early road surface located beneath the present pavement. Two borings -- DAH-10 and DAH-12, indicated dark brown silt with traces of organics or possibly wood, at a depth of 3 to 4.5 ft (0.9 – 1.4m) below ground surface. Both locations are near to wetland areas, with seasonal or perpetual streams, and at relatively lower topography. It is possible that the original construction of the c. 1810-1817 road incorporated wood planking or corduroy road construction techniques in these areas, to deal with wet conditions. It is also possible that these deposits are the result of natural remains common to wetlands.

Figure 1. Old Military Road Project Location.



If portions of the original road still exist below the present road surface, impacts of approximately 1m (3 ft.) in depth or greater pose a potential threat. Three sections of the project currently anticipate impacts with depths of 1m or greater: south of 544 Old Military Road (between survey markers 2+870 and 2+970), from the Adirondack Rail crossing to beyond the Chubb River Bridge replacement (survey markers 3+420 to 3+750) and adjacent to 132 Old Military Road and North County Properties to the junction with Old John Brown Road (survey markers 5+860 to 6+050). Archaeological monitoring during construction was recommended in these areas.

These recommendations were submitted to the SHPO for review and comment in March 2008. Based on its review the SHPO determined that the project will have "No Adverse Effect" on historic properties in or eligible for inclusion in the S/NR with the condition that a Historic Roadway Scope of Work be approved prior to construction and implemented as approved (see Correspondence, Appendix A). This scope should include testing in several locations in the 1804 and the post-1804 road. Additional consultation in May 2009 indicated that the scope should be sufficient to define all phases of historic road construction that can be identified.

Old Military Road Historic Background

The Old Military Road began as a wagon track sometime in the 1790's, taking pioneer settlers westward from Lake Champlain across the Adirondacks. Originally designated the Northwest Bay Road-Hopkinton Road, the trail began in Northwest Bay (now Westport) on the west side of Lake Champlain, and wound west though Elizabethtown to Keene, where it crossed the east branch of the Ausable, and then westward along the Old Mountain Pass to North Elba. Here it crossed the west branch of the Ausable, and traveled north and west to Ray Brook, then on to Saranac Lake, Mecham's Corners and into the "50-mile woods," leading finally to Santa Clara, and then to St. Regis Falls and ending in Hopkinton.

It first appears on Stephen Thorn's survey map of 1804-5, although following a substantially different course through the town of North Elba (and in many other places) than it does today. Its present course seems to have been determined by an act of the New York State Legislature in 1810, appropriating $1000 for the "repair and improvement of the Northwest Bay-Hopkinton Road." This act seems to have been precipitated by a number of events--the spring flooding of 1809, which washed out the bridge at Saranac Lake, the desire of State Comptroller Archibald McIntyre to have a passable road between his Elba Ironworks in Lake Placid and outside markets, and the desire of state legislator Roswell Hopkins to have a decent road to travel from his home in Hopkinton to Albany. Hopkins and McIntyre sponsored the act, and Benjamin Hopkins, Roswell's son, was appointed as one of the commissioners to oversee the work.

1810 Act of the State Legislature "...An Act to establish and improve a road from northwest bay on Lake Champlain to Hopkinton in the county of St. Lawrence. Passed April 5th, 1810...inspect and examine the said road and to make such alterations thereof as he shall find expedient...shall cause a map and survey of said road to be delivered to the clerks of each town and county through which the same shall run....and that immediately thereafter the said road shall be deemed and taken to be a legal and public highway....it shall be the duty of the said commissioner to keep the said road in repair and to remove any obstructions that may fall into the same....[1]"

Further Act of 1810, "...and in opening said road on the state lands, in the old military tract...the public lands have been greatly enhanced in their value by the said road; and the expenses heretofore laid out on said road will be ill rendered unless the said bridge should be rebuilt and the said road repaired: Therefore...the surveyor-general...is hereby directed to sell...lots, which are unappropriated in townships number eleven and twelve, in the old military tract...within two years thereafter, account for the expenditure of the said sum in building a bridge over the river Saranac...and in making repairs on the said road in such a way and manner as they shall judge proper....[2]

The present day route of the Old Military Road through the North Elba-Lake Placid area "...cuts off to the left as a bypass around the village of Lake Placid, departing from Route 73 and resuming the name "Old Military Road" for a few miles. This section intersects with first the southerly, and the northerly, end of the half-circular John Brown Road, passes along the west side of the North Elba Cemetery, intersects with Bear Cub Road, passes the Stagecoach Inn on the west side of the road and the original site of the old White Church on the east side, crosses Averyville Road, crosses the railroad tracks and the Chubb River, and passes through the old Ruisseaumont Club golf course on

[1] L 1810, Chapter CLXXVII, New York State Legislature.
[2] L1810, Chapter CLXX, New York State Legislature.

the old Chubb Hill, to rejoin the main highway between Lake Placid and Ray Brook, which has changes its number in the meantime from Route 73 to 86.[3]"

Figure 2. Old Military Road Project Area on Thorn's 1804-1805 Map.

Showing Original Alignment of Northwest Bay—Hopkinton Road. Scale is approx. 1cm = 540m.

Thorn's 1804 and 1805 maps show a different route, with the original road located north and east of the present road. "...Thorn's map of 1804...traces the primitive wagon track as it then existed in North Elba. [It] struck out abruptly north, apparently over the airport, almost to the Chubb River, then veered northwest, crossing the Chubb probably in the vicinity of the railroad station, and kept veering northwest until it reached the present road about at the Rodzinski house on the top of Chubb Hill. It then made its only real contact with the present road, following it all the way from Rodzinski's to today's junction with the Saranac Road, Route 86. This all seems pretty crazy because most of the first colony farms seem to have bordered on the road as it exists today or on the Bear Cub Road

[3] National Register District Nomination form, Draft 8/28/1991, in Archives and Collections, Lake Placid Library.

and Averyville Road branching off from it. There were a few exceptions. Elijah Bennet lived close to the Mill Pond and the road did skirt it. The Elba Ironworks properties were situated on the Lower Mill Pond and some of the present airport, close to Thorn's road. And of course Joseph Chubb lived on that stretch of Carolyn Road and therefore had direct access to the road.[4]"

The next map showing a road through North Elba is John Richard's map of 1832. Richard's map shows the Old Military Road through North Elba following the same trajectory as the present route. "...Thorn's old diverging wagon track had ceased to be a main road. So, between 1804-5 and 1832 the road through North Elba had been almost entirely rerouted... the State took over the 'repair and improvement' of the Northwest Bay-Hopkinton road beginning in 1810, it probably did an enormous lot of straightening and shortening.... Most of these first settlers came in right after the Thorn survey, which allowed patents to be issued for lands in Township 11 and the north half of 12. Could it be possible that the first settlers themselves relocated the road for easy access to their land, and that the State in 1810 naturally selected this new route simply because it went through the area of habitation?[5] Both Thorn's and Richard's maps are unpublished, with the originals in the NYS Archives, and copies in the Lake Placid Historian's archives.

The original work of laying the road was probably completed about 1817, after several fits and starts. An additional $3000 in State funds was appropriated in 1812, with a tax placed on private adjoining lands of 2-5 cents per acre. Inspection of progress in the summer of 1814 showed some land "cleared and bridged from the 41 mile tree westward." This location should be just beyond the western Old Military Road Project limit, on Route 86 west. Presumably the road was "completed" to this point. In 1816, Hopkins was replaced as commissioner, and an additional $4000 was appropriated to finish the project. The completed highway was 92 miles long and four rods (or 66 feet) wide. Although a number of minor alterations have been made over the years, there have been no substantial changes in the route since the original was completed.

The Northwest Bay-Hopkinton Road was the main track westward until the railroad was completed in the 1890's. As settlement grew around Mirror Lake and Lake Placid, it became increasingly cumbersome to travel down and around to Old Military Road, and in 1883 or 1884 a road was constructed from the upper end of Main Street over to Old Military Road, just east of where it joins Route 86 (now Saranac Avenue to Carolyn Road).

Sometime after the War of 1812, it became known as the "Old Military Road." There is no clear chain of evidence connecting the name "Old Military Road" with any military purpose, however. MacKenzie states in her notes that the most likely explanation for the name is the connection with the Old Military Tract through which the road passes. However, there are also two notes explaining a possible military connection. One is a set of military orders, a copy of which MacKenzie includes in her "History of the Old Military Road," which directs Major General Henry Dearborn to take the "route by Elizabeth" to bring troops from Lake Champlain to Lake Ontario in 1813. MacKenzie notes that this is supported by the discovery of numerous military objects "...in the form of gun barrels, buttons, bayonets, canteens and canister shot unearthed over the years at several points in the town of Santa Clara." In 1939 a New York State Historical was erected to mark the connection, and local tradition holds that unmarked graves in Jennings Clearing, along the line of the road, are of soldiers who died there, perhaps of a measles epidemic.

Maintenance of the Old Military Road was the responsibility of the Town of North Elba, who required local inhabitants to provide labor to keep the road clear and serviceable. When the Essex County Highway Department was created in 1909 it took over road maintenance for the portion of the road from River Street (Mill Pond Road) to Old John Brown Road that was designated as a County road. The portion from River Street (Mill Pond Road) north to Route 86 remained a local road until 1972 when it was taken over by the County. County records indicate that Old Military Road was "paved" with an application of gravel mix asphalt, known as "...roll over mix. Roll over mix was screened bank run gravel spread over an unimproved dirt road with asphalt applied by a distributor. The asphalt is then raked and rolled. This was the most common means of surfacing a road in Essex County due to its remoteness. The Chubb Hill portion of the road remained a gravel surface until the mid 1950's.[6]"

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[4] Hoteling, Mary, correspondence, Oct. 10, 1991, in Archives and Collections, Lake Placid Library.

[5] Ibid.

[6] LaVigne correspondence, Essex County DPW, 2/8/2007.

The first asphalt overlay was applied in 1974 and 1976. This was periodically renewed and improved (Charles Smith Sr., *pers comm.* 2006). Mr. Smith, who was a resident from the 1940's also remembered the road being "oiled" prior to the first paving. Documented roadway reconstruction projects include work on the CR35 and Rt. 73 intersection in 1931 and again in 1974, and the CR35 and Rt. 86 intersection in 1953[7]. The section between Bear Cub Road and the Uliehn Mercy Center entrance, approximately 0.25 miles, was reconstructed in 1986. The roadway was excavated to full width and to a depth of 3 feet. A blind vertical curve was eliminated, and a French drain was installed on the south side of the road. During excavation a 4 inch run of bank gravel on top of natural soil was identified. The Essex County DPW believes that the current road grades were established in the 1800's and have remained basically unchanged.

Development of Settlement along Old Military Road

Maps prior to 1858 show the outline of the Old Military Road, but do not indicate settlement locations. The 1858 Map of Essex County, New York is the first to show settlement in the project area. At this time Old Military Road, Old John Brown Road (leading to the John Brown Farm), Church Street (actually Newman Road—the present Church Street bends south) and Averyville Road are present. One house "A. Washburn," is visible beyond the eastern end of the project area; Dean has identified this as being the present residence at 7 Old Military Road.[8] The North Elba Cemetery is present, and the Osgood Inn is identified opposite Church Street. Currently the residence at 15 Bear Cub Road is in this location, although the Town Assessors' data suggests that this house is too recent to be Osgood's Inn. M. Lyon's Inn is located to the west on the same side of Old Military Road—this is the present "Stagecoach Inn" at 3 Stagecoach Lane. Between the Stagecoach Inn and Averyville Road 3 structures show—a Post Office on the north side of Old Military Road (which may be in the same location at "M. Brewster" on the 1876 map) and two houses labeled "W.C. Wiles" and "L.S. Straw." There are no buildings or structures indicated west of Averyville Road on Old Military Road.

Averyville Road is likely contemporary with Old Military Road. "Averyville Road itself probably made its debut as a primitive wagon track shortly before 1804. In that year there were a number of 'squatters' on State land in Averyville, including one on the Prescott lot and one to the west of it. The first to settle permanently in Averyville was Simeon Avery in 1819. There was little or no further pioneering until the 1840's.[9]"

The 1876 Grey map shows the Old Military Road, John Brown Road, Church Street, Averyville Road and the North Elba Cemetery; Bear Cub Road is now also present. The residence "A. Washburn" is still present, but two houses now show between John Brown Road and Bear Cub Road, on the south side of Old Military Road, labeled "M. Huntington" and "Wells." "Wells" may be the Osgood Inn, "M. Huntington" is approximately in the location of the Spring Brook Historic Site. The Old White Church is indicated on the North Side of Old Military Road. There is also a school located on Church Street. "M. Lyon's" Stagecoach Inn is shown, and now additionally labeled "North Elba Hotel and P.O." "M. Brewster" is located on the north side of Old Military Road, between Church Street and Averyville Road—this is approximately the location of the present "Blue Moon B&B," 288 Old Military Road, and is probably the same residence. "B. Brewster" is shown on Averyville Road and is probably the current residence at 23 Averyville Road. No other buildings are indicated to the west of Averyville Road.

The 1898 and 1904 USGS maps are at too small a scale to give much detail for settlement patterns. Station Street, opposite Averyville Road is present on the 1898 USGS as is Carolyn Road. Documents in the Lake Placid Library indicate that it was constructed about 1883-84[10]. The 1953 USGS maps show a considerable expansion in residential and municipal development. All the current roads are present at this time with the exception of Snowberry Lane (not built until the 1990's) and an additional road links John Brown Road and Bear Cub Road—this appears to have been the road leading to the farm at the Spring Brook Historic Site, and traces of this are still visible on the 1994 aerial photographs. Church Street has changed its orientation, bending south of the hospital and connecting to Bear Cub Lane, and the older road to the north has been renamed Newman.

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[7] NYSDOT SH1907, 8390 (1931), SH1177, 1178 (1953) RCR74-180 (1974).
[8] Dean, 1994: 17.
[9] Correspondence to Hon. Jack Shee, Jan. 15, 1970, Lake Placid Library Archives.
[10] Old Military Road files, Lake Placid Library Archives.

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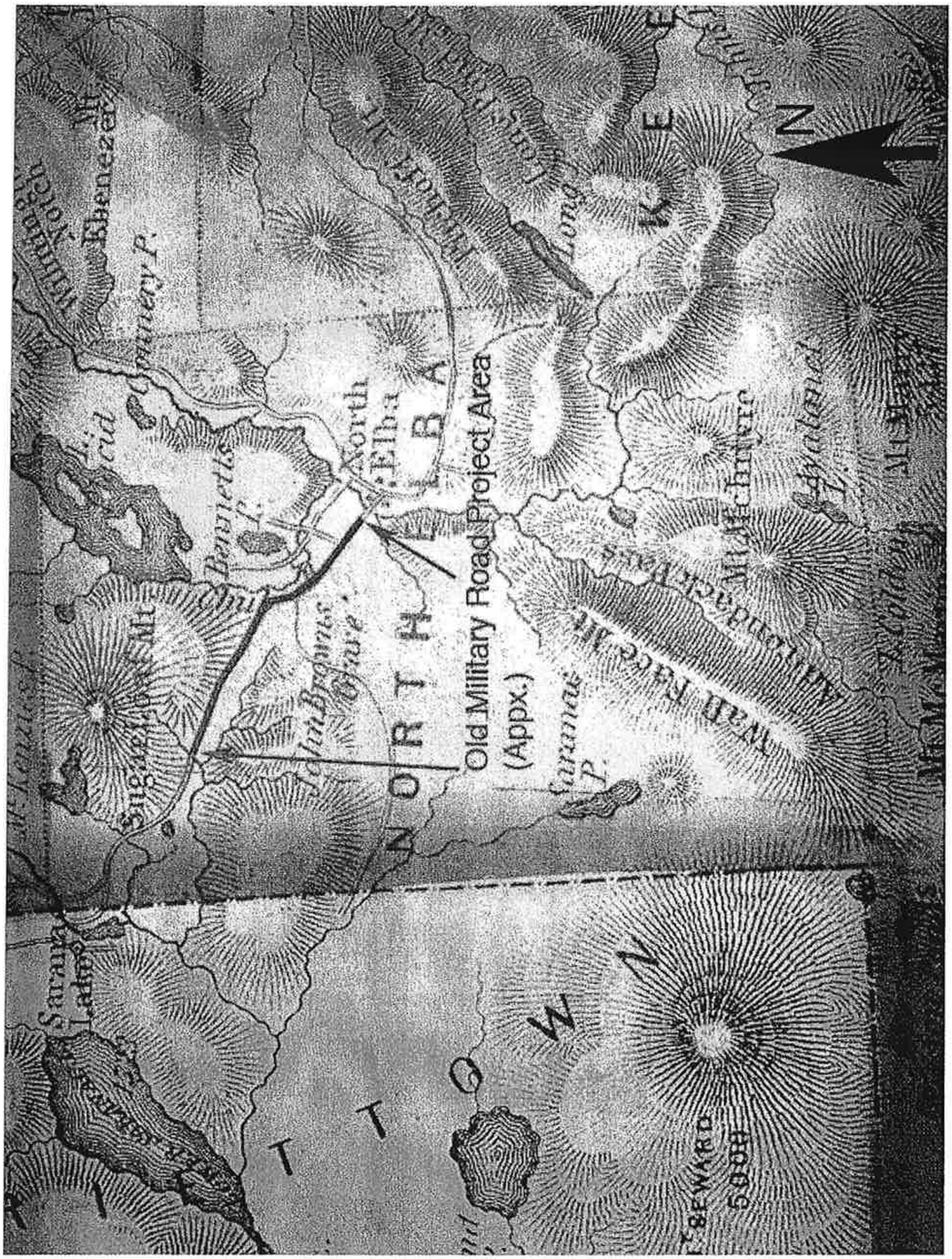
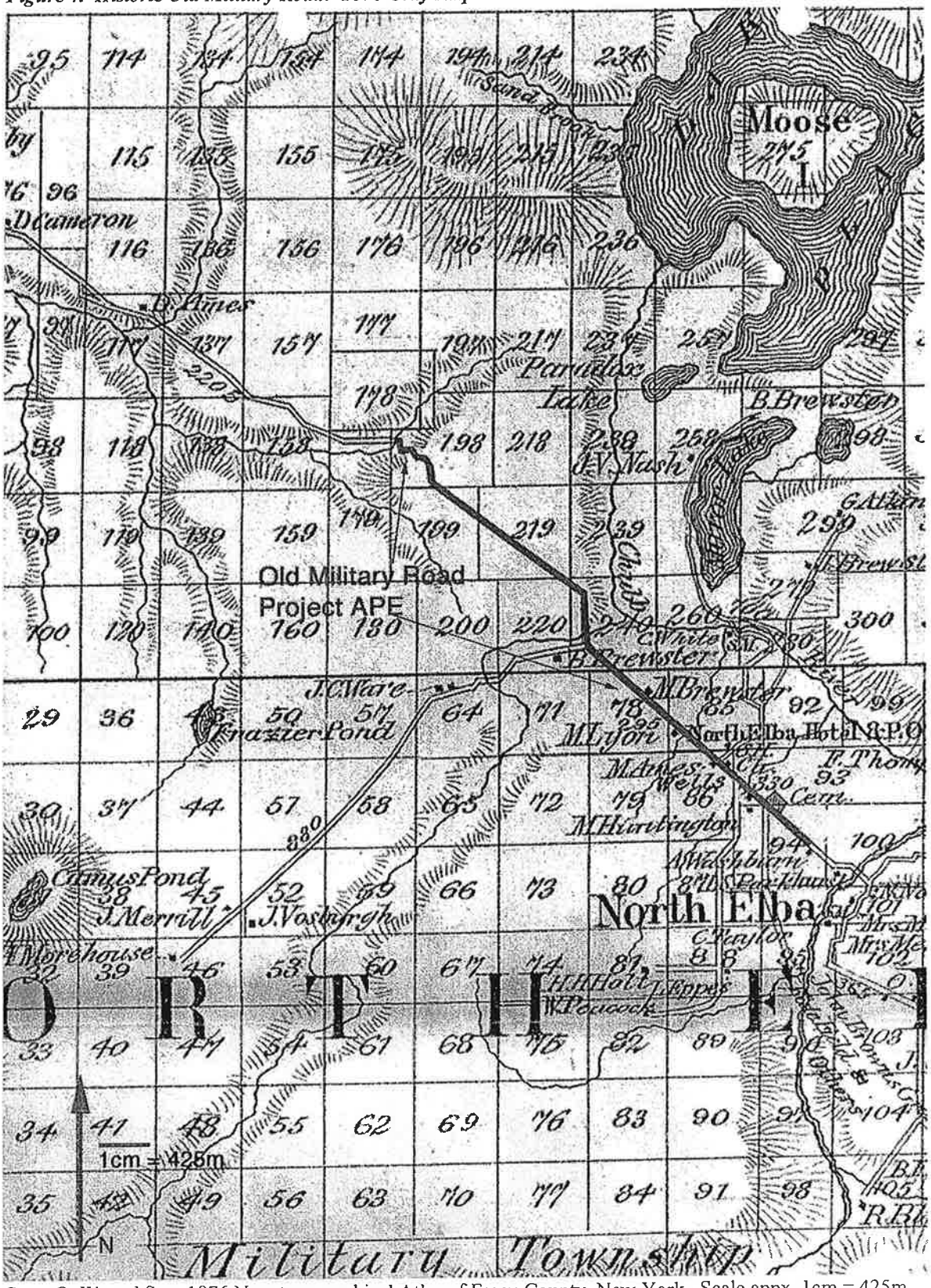


***Figure 3.** Historic Old Military Road: 1858 Map of Essex County, New York. Scale 1 ½" = 1 mile appx.*

Figure 4. Historic Old Military Road: 1876 Gray Map.



Gray, O. W. and Son, 1876 New topographical Atlas of Essex County, New York. Scale appx. 1cm = 425m

Table 1. Roadway Construction Dates, Old Military Road and Adjacent Roads

Roadway Name(s)/ Map Dates	1804	1858	1876	1898	1953	1981
Old Military Road, CR35	X	X	X	X	X	X
Cascade Road, Rt. 73	X	X	X	X	X	X
Old John Brown Road		X	X	X	X	X
New John Brown Road					X	X
Unnamed road, New John Brown to Bear Cub					X	
Church Street					X	X
Newman Road		X	X	X	X	X
Newman Road south of CR35					X	
Johnson Avenue					X	X
Balsam Avenue					X	X
Snowberry Lane						
Averyville Road	(X)	X	X	X	X	X
Station Road				X	X	X
Mill Pond Road (River Street)					X	X
Carolyn Road				X	X	X

Figure 5. Historic Old Military Road: 1898 Lake Placid and 1904 Saranac Lake USGS 15' Quads.

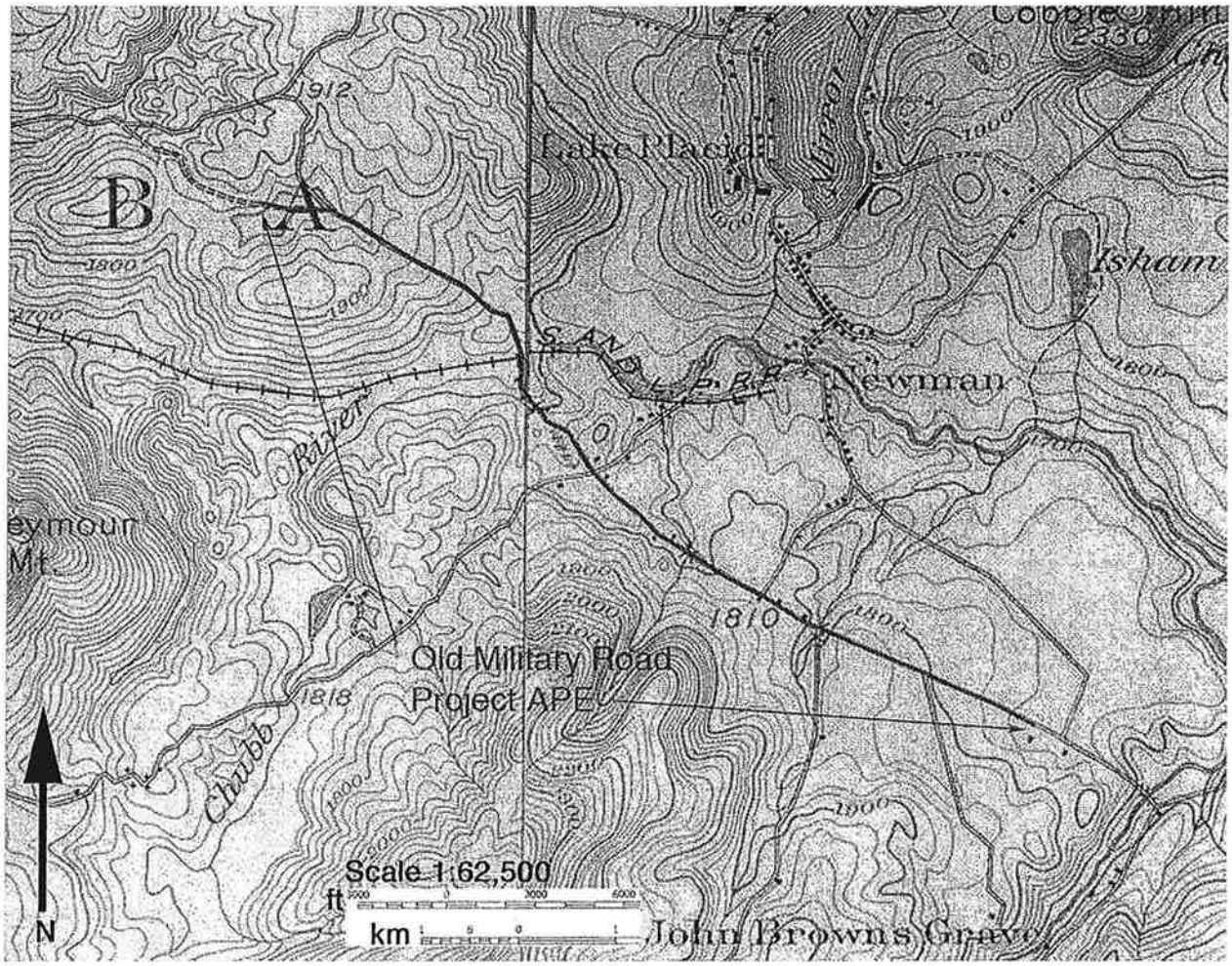
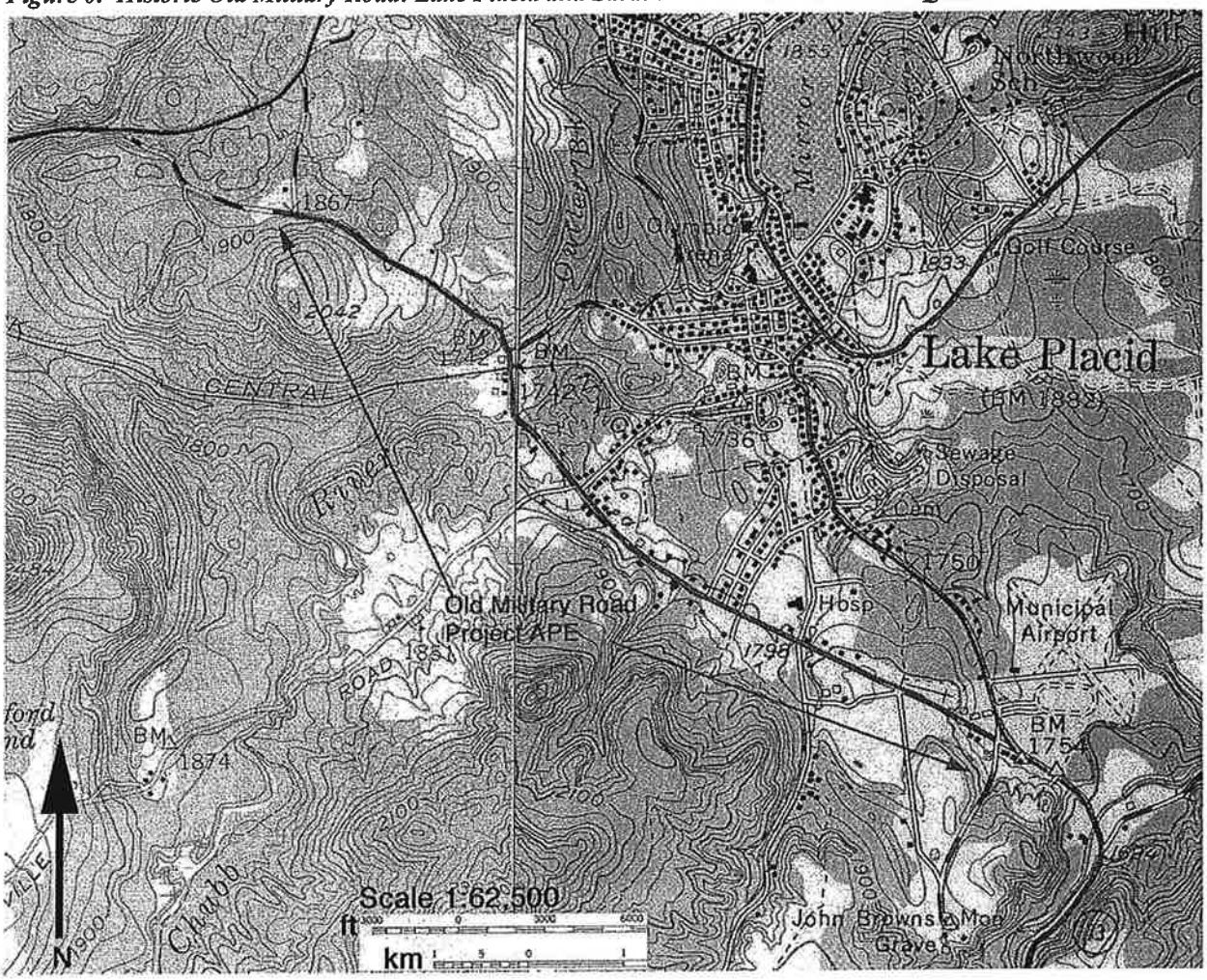


Figure 6. Historic Old Military Road: Lake Placid and Saranac Lake 1953 USGS 7.5' Quads.



The three suburban development tracts—Newman Road (the old Church Street), Johnson Avenue, and Balsam Street, on the north side of Old Military Road are present. Six residences and several outbuildings are present between the eastern project limit and Bear Cub Road. Between Bear Cub Lane and Station Street/Averyville Road there are 18 residences, including the present configuration at the corners of Station and Averyville. Another 7 residences show between Averyville Road and Mill Pond Lane (River Street), and then two residences (Chubb Hill and one house on Carolyn Road) between Mill Pond and the western project limit.

Review of Historic Roadway Construction

Historic Background

It is generally acknowledged that the earliest roads in the United States were Native American trails. Rarely more than two feet in width these routes followed the path of least resistance originally selected by either game animals or human feet, and over time became pounded earth paths generally one-human wide. Wixom in his *"Pictorial History of Roadbuilding"* says "...the first phase of road-making (if it can be dignified by such a title) was the broadening of the Indian path by the mere passing of wider loads over it.... The heavier the freight tied on either side of the pack-horse, the more were the bushes bruised and worn away and the more the bed of the trail was tracked and trampled....[11]

[11] Wixom, 7.

Formal road building began shortly after the founding of the various colonies, as the earliest settlers provided for streets in their settlements. Early Acts in Virginia, Massachusetts, New York and Pennsylvania laid out the basics of construction, ownership and jurisdiction. Interconnections were important, to industrial sites and between settlements. The "Old Mine Road" is probably the oldest highway on the continent. Built by the Dutch in 1620 to carry copper ore from inland mines to the Hudson, it covered 104 miles from Sussex County, New Jersey to Kingston, New York. As early as 1639 Plymouth was linked to Boston by a path, part of which became the "Boston Post Road." By 1673 the Boston Post Road extended to New York City. Military needs during the French and Indian Wars period (1750-1760's) resulted in the widening, straightening and "improving" of military roads, including the fist extensive use of "corduroy" roads. "To corduroy a road, men cut timbers and laid them contiguously side by side to provide a firm foundation over soft or boggy spots."[12] General Edward Braddock's forces cut a 12-foot-wide wagon and artillery road to attack the French at Fort Duquesne in 1755.

Photo 1. Corduroy Road, Stafford County, Virginia, 1912.

In and near the largest cities, roads might be "artificial," ditched and sometimes surfaced with gravel or "pounded stones." Under colonial laws, road making and upkeep were responsibilities of the local governments. Elected town officials, including a surveyor of highways were charged with the upkeep of highways and bridges, authorized to remove obstructions, to dig for stone, gravel, clay and marl on any land not enclosed, and to command the labor of persons over the age of sixteen for work on the roads. For many years this "statute labor" was the principal resource available to local governments for roadwork.

In 1797, the New York State Legislature recognized the need to provide for the construction and maintenance of a road system throughout the State. Chapter 43 of the Laws of 1797 and the amendments thereto provided for the town commissioners of highways to: regulate the roads already laid out, cause roads not already described to be ascertained, described and recorded, and to lay out, describe and record new roads. All public roads to be laid out

[12] Op.cit., 12.

by the Commissioners shall not be less that four rods wide, and all private road shall not be more than four or less than two rods wide.[13]

By 1790, the population of the new United States exceeded 3 million, of which about 1 million lived in New England, and approximately 550,000 in New York State. There were 1800 miles of post routes in the U.S. and mail moved five times a week between New York and Philadelphia. The use of wheeled vehicles, however, developed slowly. Earlier settlements generally arose along waterways, but as settlers moved inland, improved means of overland travel, especially for crops and goods, was desirable. In the countryside, wheels usually meant wagons. A revolution in land transportation occurred in 1750 in Lancaster County, Pennsylvania—the Conestoga wagon—26 feet long, 11 feet high with four inch wide wheels, capable of hauling 3 tons. The wagoner was positioned on the left side of the wagon, and preferred if it was possible to keep to the right to have a clear view of the road ahead. Wixom states that this "wagoner's choice" was the beginning of right-hand driving.

Turnpike roads were a partial solution to the need for better roads, at least in terms of providing finance to pay for road improvements. Contracts were awarded to turnpike companies, who in turn sold stock to raise capital for road improvements. Tolls were collected for travel along the completed roads. Turnpike and toll roads were popular in the late 18th and early 19th centuries. After 1800, most states adopted toll financing to pay for main roads, while retaining the old statute labor system for local improvements. In New York, 67 companies were chartered before 1807 to build 3110 miles of turnpike roads, costing $8,000,000[14]. By 1830 New York had 278 turnpike companies capitalized at $11,000,000 and operating about 4000 miles of roads. "The toll roads were built by contractors or by hired laborers supervised by trained road-builders. Usually the roads were well located and well built in order to meet the standards of their charters. Their construction was far better than that of the roads built by inefficient statute labor directed by amateur supervisors.[15]"

Paving of the early turnpikes conformed to the recommendations of J.P.M. Trésaguet, Director General of France's roads from 1775-1785, whose work was familiar to many well-informed Americans. Trésaguet's plans included adequate right-of-way and generous side ditches to carry away surface water. "On a crowned and rolled subgrade, his roadbuilders placed a layer of heavy foundation stones, laid on edge, with the interstices packed solidly with smaller stones rammed into place by hammering. Above this course, they placed successive layers of broken stone, compacted and filled so that the stones interlocked with each other. The top 3 inches were of hard, specially selected stone, broken with hammers to walnut-size and placed on the road to form the surface course. The carriageways for these roads were 18 feet wide and about 10 inches thick.[16]

After about 1820, the ideas of two Scots, Thomas Telford and John Louden McAdam, came to dominate roadbuilding. Telford developed the concept of heavy stone foundations with smaller stones for the upper layers of the road. McAdam recognized the load bearing capacities of soils when kept dry and compact. He said that a road with an impervious surface, along with proper crowing for drainage, would suffice to carry normal traffic. Macadam roads were composed of clean, broken stones of a fairly small, uniform size, layered about 6-10 inches thick. Traffic packed the stones together and added a binding dust, increasing the resistance to water penetration.

Use of roads for hauling goods had significant competition in the 19th century, first from canals and then about 1840 from railroads. Throughout the nation as the building of railroads advanced at a hectic pace in the 1850s – 1880s, roads fell into disrepair and disuse. Serving now as mainly feeders for the railroad, there were described by one writer as "large clouds of dust in summer and streams of mud in winter.[17]" Turnpikes provided the best-paved roads in the early 18th century but with economic competition began to deteriorate. Some were surfaced with gravel, others were "paved" with shell and others corduroyed. At the same time, many were surfaced with planks. Armstrong states "the years between 1850 and 1900 have been called the dark age of the rural road. Yet during this period well over 1.5 million miles of rural road were built, primarily by counties. Most of them were unimproved, at best only ditched and graded....[18]

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[13] Moroney, 1976: 5.
[14] Armstrong, 1976, 58.
[15] Ibid.
[16] op cit, 59.
[17] Wixom, 39.
[18] Op. cit., 65.

The first plank roads in North America were constructed in Canada from 1835 to 1836. In 1847 the first plank road in New York State was completed near Syracuse. Plank roads were made of wood, a readily available raw material in the forested areas of eastern North America. Hardwoods, such as hemlock and white pine, were preferred because of their durability. Softer woods, such as yellow pine, were less satisfactory. In time maple and beach were also used.

If the plank road was to be built on an old road, it did not need to be graded. If, however, it was a new road, drainage was important and the roadbed was often built up or crowned in the center, with ditches built along the sides so water would not accumulate on the road bed. Once the base of the road was prepared, planks were added. Plank roads were built by laying two long boards, or two pairs of long boards (stringers), 4 to 5 ft (1.2-1.5 m) apart down the length of the road. Planks 8 or 9 feet (2.4 - 2 7 m) long were then placed across the stringers, at right angles to them. Dirt was filled in around the stringers, holding them in place. Surfaces of the planks were sprinkled with sand to prevent wear from wagon tires and horses' feet. The planks provided a travel surface for the wagon traffic that was believed to be more efficient than the earlier dirt road, permitting horses to pull heavier loads with less effort. Wood was abundant in the area, so the cost of constructing the roads was relatively low. However, maintenance of the roads required frequent inspection as the planks wore out and had to be replaced.

In 1847, the New York State Legislature had passed an act providing for the "incorporation of companies to construct plank roads and to construct turnpike roads."[19] Some 2000 miles of plank roads were built in New York State at an average cost of $1833 per mile.

Maintenance of roads was often carried out by individual farmers, using horse-drawn drags and scarifires—toothed harrows and other type drags to break up the surface. The surface would then sometimes be dragged and scraped into a crown and smoothed over. The need for better surfacing materials was apparent. Brick and wood block pavers were tried, but had little success outside major cities. Asphalt paving, which had been in use in Europe since 1849, was first tried in the United States in 1871. E.J. De Smedt, a Belgian chemist working in the United States received a patent for asphalt mastic pavement in 1870. It was made from asphalt mixed with sand and limestone dust, and combined by fluxing with petroleum residue. This material was applied in Newark, New Jersey in 1871, and then on Pennsylvania Avenue, Washington D.C. in 1872. Omaha and Buffalo paved their streets with asphalt in 1882, and by 1900 there were 2600 miles of asphalt in the U.S., almost all in and around major cities[20].

By the beginning of the twentieth century, although city dwellers could expect some measure of road improvements, rural roads were largely dirt tracks. The first complete inventory of public road mileage was made in the 1904. This inventory showed 2.2 million miles of road outside of incorporated cities, of which only 153,663 miles were improved with some surface other than dirt. With a few exceptions, all these roads were under county or township control. Until the early 1900's the main sources of road funds were taxes on property, poll taxes and statute labor. "Unquestionably the bitterest controversies in counties and townships in connection with the subject of road improvement are over proposed increases in the rates of property taxation for road purposes." Very few rural residents had adequate roads, directly affecting both the loads a farmer could haul with his teams, and the cost of farm produce. This was effectively a tax on both farmers and city dwellers. It was possible in 1901 to pay less for fruit from California shipped to Raleigh, North Carolina by rail, than for fruit grown less than 15 miles away[21].

Several groups pushed the improvement of roads—bicyclists, railroads and farmers, all of whom gradually came to see the advantages of good roads. In 1892 the National League for Good Roads was formed, with the support of the National Grange, and held its first "Good Roads Convention" in Washington D.C. a year later. The same year, the Office of Road Inquiry (eventually the FHWA) was established as an agency of the Department of Agriculture. The Federal interest in roads was augmented by the authorization of Rural Free Delivery in 1893, made contingent on the existence of improved—gravel or macadam—roads. The Office of Road Inquiry began a program of building "object lesson roads" in 1898 to demonstrate the value of good roads and provide local authorities with road building experience[22].

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[19] Cowan, 1992.
[20] Armstrong, 68.
[21] Ibid.
[22] Wixom, 54.

The Office of Road Inquiry advised improvements for earth roads—longitudinal grades should be kept to one foot in thirty, with a one to twenty slope from crown to side. The road should be harrowed or scarified before rolling, and then rolled and re-rolled a number of times to make a smooth surface. In level areas and with narrow roads, enough material may be excavated to raise the roadway above the subgrade in forming the side ditches. Mechanization was strongly encouraged--graders, rollers and other equipment were hauled around the country for demonstration on "Good Road Trains." Gravel roads and macadamized roads were preferred over earth. Gravel was usually carried in dump carts and wheelbarrows and then spread in even layers with rakes, although mechanized equipment was available.

A substantive change in road construction and maintenance was coming in the early 20th century, with the appearance of the automobile. Good roads of the nineteenth century had been designed for horse-drawn steel tired traffic, traveling six to eight miles per hour. By 1905 there were 50,000 automobiles, primarily in cities, by 1918, there were 6.2 million. Automobiles damaged macadam and gravel roads. Increasingly, owners of automobiles began using them on country roads, raising clouds of dust, and creating a rural road crisis which began to be seriously felt about 1910. The object lesson roads were utilized to test various surfaces. An important experiment in 1900 was oil treatment—at that time road oiling was practically unknown outside of Los Angeles County, California. Building up tar or asphalt wearing courses over macadam and slag or gravel bases gave good results and led to a general adoption of bituminous surfaces wherever automobiles were an appreciable portion of the traffic.

The number of horses and mules in the nation peaked at 26 million in 1918 and by 1929 was decreasing rapidly. A great obstacle in adjusting the streets and highways to the automobile age was the scarcity of basic information on how highways should be developed to meet economic and social needs and constructed to withstand the increasing volume and weight of traffic. Much of the twentieth century was concerned with establishing new roadway standards. Improvements in mechanized equipment, including pneumatic tires and diesel engines, and specialized paving (e.g. the road mix machine in 1929 and the bituminous paver in 1932) provided more rapid construction of improved asphalt pavements at lower cost. Federal aid to highways, beginning with the 1916 Federal-Aid Road Act established the concept of a cooperative federal-state program. This pushed the establishment of both state and local highway departments, as proper roadway maintenance became a requirement for participation in federal aid. Maintenance of state highways was not generally considered to require special skills until about the middle of the twentieth century, however, and highway maintenance crews were replaced with a change in administration, qualifications being political party affiliation[23].

Investigations of Historic Roadways in New York State

Although the New York state and local highway system encompasses over 110,000 miles (177,000 km) of highway, very few roads themselves have been investigated archaeologically. Those that have are primarily corduroy or plank roads or some form of paved surface common in larger towns and cities (for example brick or cobblestone). Rural dirt roads, the most common form of roadway in the U.S. into the 1960's, remain almost undocumented.

Review of project files at the OPRHP and numerous conversations with other archaeologists identified two reports in which the documentation of a historic road was the specific objective. These were the *Replacement of the NYS Route 3, Bridges over Salmon River, Town of Richland, Oswego County* (Dean, 2001) and the *Reconstruction and Replacement of NY Route 130 (Broadway) between Harlem Road and Union Road, Town of Cheektowaga, Erie County* (Herold, 2001). Additionally, as part of the documentation of the Ballston Archaeological District for the *Middle Line Road (Route 59) Reconstruction in Ballston, Saratoga County*, a historic dirt road was identified as part of the Christianson Site (Reith, 2001).

The NYS Route 3, Bridges over the Salmon River in Richland involved monitoring the removal of the modern roadbed and data recovery of the Port Ontario Wooden Roadway (NYSM #11097) beneath. The roadway was identified during construction approximately 1.5-2m below the present road surface. The Port Ontario Wooden Roadway is a hewn plank road or modified corduroy road built c. 1830, crossing the Salmon River between the hamlets of Port Ontario and Bethel Corners in the Town of Richland. This type of road construction was common in seasonally or perennially wet areas. The Salmon River, located between the two hamlets, is traversed by two bridges connected by an island. The surface of the island is just several feet above the level of the river during winter, and seasonally flooded during the remainder of the year.

[23] Armstrong, 1976: 103.

The Port Ontario Wooden Roadway is approximately 6m (20 ft.) wide and extends for probably 198m (650 ft.). Widths of logs ranged from 35 to 90 cm (1-3 ft.). The tops of the logs had been hewn to create a level surface, while bark was still present on the bottom of some of the logs. The logs, which were hemlock, were laid side by side, in a single layer, on top of the clay subsoil, and had seen considerable wear.

Monitoring of the site was conducted at the north, middle and south ends of the island. Three trenches were investigated during monitoring, each approximately 2m x 5m, excavated to the depth of approximately 2m. Trenches were mechanically excavated to the depth of the wooden roadway, then cleaned by hand, planned, profiled and photographed. Below the modern asphalt road a layer of sandy fill was encountered, then a bituminous macadam roadway, approximately 1m (3.3 ft.) above the wooden roadway. The macadam roadway, constructed in the early 20th century, consisted of a layer of cobble stones, covered with a fill layer of sandy loam and clay, then a gravel foundation and finally the bituminous top course. Between the macadam road and the wooden roadway was a layer of grey clay approximately 10cm (4 inches) thick. In some areas a single layer of shale and flat cobbles was placed on top of this clay.

The majority of the wooden roadway was left intact below or beyond the modern construction. Exposed portions were recovered with natural marsh soils and returned to wetland environment. No further work was recommended.

The reconstruction and replacement of NY Route 130 (Broadway) between Harlem Road and Union Road, Town of Cheektowaga, Erie County involved the monitoring of an earlier plank road (c. 1847) located beneath 1911 brick paving, both of which would be removed by a full-depth roadway reconstruction. Core borings done by Region 5 DOT in 1976 had indicated the presence of a brick pavement, underlain by a Portland cement concrete pavement, and at a depth of 20 – 40 inches traces of organic material. Sear-Brown took additional cores in 1993, and identified wood fragments in one core at a depth of approximately 20 inches. Consequently, a monitoring plan was submitted, and monitoring was conducted in 1996-2000.

Because Broadway is a major thoroughfare for traffic, the roadway was divided lengthwise and reconstructed in two phases—the north half one year and the south half the second. The roadway was further divided into four sections and each section was investigated by test trench across the entire width of the roadway, dug in two separate phases to correspond to construction. Trenches were approximately 5m long by 2m wide, excavated to an average depth of 1m (3 ft.). Trenches were mechanically excavated to sterile soils to create standing profiles, and widened by hand to expose plan areas of the plank road.

General profiles revealed a layer of brick and concrete, underlain by a thin layer of gravel, and then a layer of grey soil including wood fibers. The brick road measured about 5.5m (18ft) in width, and the plank road about 2.7m (9 ft.) in width, offset from the brick road to the north. Wide drainage ditches were identified on either side of the road in one section.

Wood was identified in almost all sections investigated, and several wood samples were recovered, including parts of three stringers of hemlock and cedar. Other species included red pine, red oak and sugar maple. A number of historic artifacts, identified as domestic rubbish, were also recovered. The report noted that the best-preserved evidence of the plank road was located in areas which were drier. The plank road as a whole was not designated as a site, as evidence of it was noted for over 2.65m along Broadway, and could probably be found east and west of the project limits. No further work was recommended and the historic roadways were destroyed in the project area.

The investigation of the Ballston Archaeological District involved Phase 3 complete data recovery for approximately nine archaeological sites prior to the Middle Line Road (Route 59) reconstruction. The sites represented a small settlement on Middle Line Road between c. 1770 and early 20th century, including a blacksmith shop, early courthouse and jail, store, print shop, tavern and several residences. In the course of data recovery for the Christianson Site (NYSM #10603) a farm from c. 1796-1980, three features were uncovered that appeared to be associated with the construction and use of the original Federal period (c. 1796-1832) roadway through the settlement.

This feature produced a tightly packed layer of cobbles associated with the original late 18th/early 19th century surface of Middle Line Road. This feature was encountered at a variable depth of 15-70 cm (6-28 ins.)

below the ground surface and measured 10-20 cm (4-8 ins.) in thickness. Lodged in between the cobbles was a brown silt soil and late 18th/early 19th century artifacts including undecorated creamware (1762-1820) and pearlware (1780-1830), square nails, olive-green bottle fragments, unidentified bricks, bone, oyster and clam shell, and wood charcoal. Underneath Feature 7 was Feature 8, a layer of crushed shale that was placed underneath the roadway. This feature was fairly uniform measuring between 10 and 15 cm (4 and 6 ins.) in thickness. Like the previous soil layer, this layer produced a diverse array of artifacts dating to the late 18th and early 19th century including pearlware (1780-1830) and creamware (1762-1820), unidentified and square nails, unidentified bricks, miscellaneous iron and steel fragments, brown-glazed redware, unidentified earthenware and stoneware, horseshoe nails, bottle glass, shell, and animal bone.[24]

The feature is nearly 2 m (6.4 ft) wide within the project limits and extends up to and underneath the current pavement. The feature may also extend beyond the eastern boundary of the project area as evidenced by deposits identified in SMUs 34, 35, and 36. Further investigation of the feature in Units 6, 7, and 28 revealed that this Federal Period roadway was constructed on a fairly level surface that was prepared by laying a thick layer (approx. 8 cm) of crushed shale (Feature 8) across the ground surface. Intermixed within the shale layer were pieces of pearlware, shell, and bone fragments. In some areas, a layer of larger cobbles (approx. 8-12 ins in diameter) was placed on top of the layer of shale and may have been used to reinforce the structure of the roadway. The surface of the roadway appears to have been constructed by "packing" a layer of smaller cobbles against each other. The upper layer of cobbles is fairly uniform with most cobbles measuring 10-15 cms (4-6 ins) in diameter.

Although this feature generally parallels the existing roadway, this early roadway appears to move in a westerly direction near the northern boundary of the Christianson site. Evidence of the changing direction of the roadway is represented by the eastern edge of the roadway encountered in SMUs 29 and 29A. A shallow depression (Feature 6) measuring 13 cm wide was identified along the eastern side of the feature in SMU 29A and may represent a shallow drainage ditch or lining along the edge of the roadway. This depression produced a few pieces of wood charcoal, and 2 pieces of creamware. Portions of the roadway appear to have been unused during the mid-19th century as evidenced by the recovery of many mid-19th century artifacts on top of the feature.

The use of this roadway through this rural frontier community is important since it was not merely a transportation route but also required the participation from the community's residents for its construction and upkeep. As discussed in the historic background section, beginning around 1780, the occupants of Ballston selected a group of "pathmasters" to oversee the construction and maintenance of roadways. According to these records, most of these roads measured 3-4 rods (15-20 m) wide and were initially constructed on top of dirt paths. Although portions of Middle Line Road may have also been constructed from planks (Briaddy 1997), the area near the center of this community appears to have been constructed in the manor described above. This is not entirely surprising and as Kirkorian and Zerzanski (1981:5) indicate "the best constructed roads are generally located near town centers to facilitate the flow of traffic in these areas". Although the roadway was probably well constructed, there is evidence that repairs were regularly made to the road as evidenced by the recovery of several bricks found lodged in between cobbles (Figures 32 and 33) suggesting early attempts to "repair" ruts in the roadway.

Historical descriptions of other early roads indicate that the occupants of this rural frontier community probably constructed Middle Line Road according to established plans. According to J. P. M. Tresaquet's detailed specifications for the construction of early roads, late 18th century roads should be constructed on top of a 10 inch base of hammered or broken stone and should be sufficiently wide to allow early carriages to pass with ease. Albert Gallatin, outlined similar construction principles in his 1807 report to Congress which required that (1) roads not be constructed over hills that exceeding 6.12 percent, (2) that the stones that are used in the roadbed be of similar quality and size and not be more than three inches in diameter, and (3) that these stones be placed on top of a 12 inch pounded stone or 18 inch gravel base (Anonymous 1930:11 as cited in Kirkorian and Zeranski 1981:5). Jacob Hiltzheimer, describing roads near Philadelphia in 1793, indicated that many of these early roads were "24 feet wide and had a road surface of small stones that was 18 inches thick" (Parsons 1893 as cited in Parrington 1983:19).[25]

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[24] Reith, 2001: 161, 163.
[25] Op cit. 172-3.

All excavated sites in the Ballston Archaeological District were determined to be eligible for listing on the S/NR. Based on the data recovery, no further work was recommended within the project area, but it was noted that there was a high probability associated deposits extended beyond the current project boundaries.

Scope of Work

Background research suggests that Old Military Road (CR35) remained an unimproved dirt road into the early 20th century, and an unpaved (i.e. not asphalt) road over most of its length until the 1960's. Relatively few documented upgrades are known, and with the exception of the junctions with Route 73 at the southern project limit, Route 86 beyond the northern project limit, and a short stretch between Newman Road and Bear Cub Road, and it seems likely that the current alignment and grading are close to the "finished" c. 1817 road improvement. While utilities installation along the ROW on both shoulders has possibly caused significant disturbance to the original road edge, both available documents and informant interviews suggest that the original road surface may be intact below the present asphalt and sub-base. Additionally portions of the earlier trail, as shown on the Thorn maps 1804-5, may also exist in the northern project area.

Relatively few roads themselves have been examined archaeologically, and these excavations were reviewed above. Of these, and a few others for which reports were lacking, most are either wooden roads of some type (corduroy or plank roads) or paved (macadam, brick, Portland cement concrete, etc...). The construction history of rural unimproved roads, the single most common type of roadway in the United States until after World War II, appears to be undocumented in New York State, except perhaps as an aside (as for example at Ballston Archaeological District). It is likely therefore that any investigations of the construction history of Old Military Road will yield information important in history and that is associated with events that have made a significant contribution to the broad patterns of our history (NR Criteria D and A).

Potential research questions include:

1. What phases of roadway construction prior to the most recent can be identified and documented? This includes both the carriageway and the ROW structures (such as drainage ditches).

2. Can these be related to the established historical background? Can the different early phases (up to 1804, and c. 1817 alignments) be identified?

3. How accurate is the information obtained from soil borings? Can it be used as a guide to identify early roads?

4. Are there artifacts that may be related to the road construction? Are there other artifacts, and what is their relation to the road (e.g. travelers, residents)?

5. Given the lack of archaeological information about unimproved roads, can unimproved roads be documented, and if so, what evidence do they produce?

Location and Basis

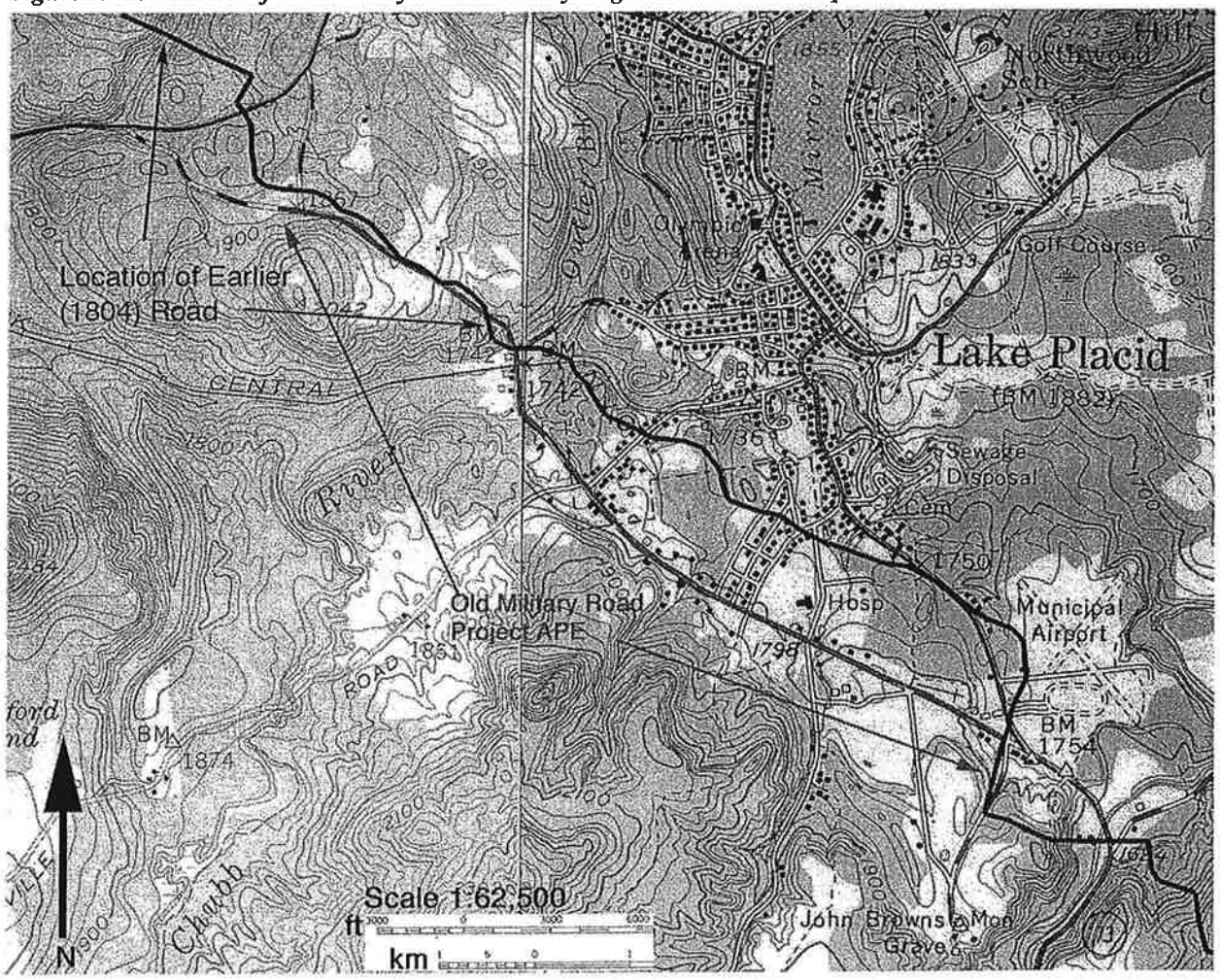
Criteria for selecting potential road segments include both archaeological and construction objectives. Archaeologically, the intent is to identify potential areas that will answer the research objectives, will document the alignments of the earlier, c. 1804 road and the later, c. 1817 road, and will identify if different types of construction were present in the potentially "wetter" and "dryer" areas. From a construction perspective, the areas selected must fit within the construction phasing, allow for continued use of a vital roadway with as little disruption as is possible, consider potential damage to underground utilities and the visibility and safety of crews. Additionally, it is hoped to select areas where the new grade will be substantially below the existing grade level or where utilities will be replaced or relocated, so as to contain subsurface disruption to areas that will be significantly disturbed, and to maintain the compaction in other areas.

Phase 1 of Old Military Road is expected to begin just west of Carolyn Road, at approximately Sta. 1+800 and end just east of Averyville Road, approximately Sta. 4+190. Phase 2 begins at this location, and ends at Old John Brown Road, approximately Sta. 6+650. Previously documented construction disturbance related to the CR35-Rt. 73 intersection reconstruction estimated to extend to Sta. 6+440 (Henry Karl property, 48 Old Military Road) based on

previous reports and informant interview. Informant interview also identified construction disturbance between Newman Road (Uihlein Mercy Center) and Bear Cub Road, approximately Sta. 5+190 to 5+540.

Historic map documentation suggests that the pre-1817 road alignment, as shown on the Thorn 1804-1805 map, probably coincided with the current road alignment in only a few locations. Figure 7 shows a "best guess" for the correlation of the earlier and later roadway alignments. The most likely segment for identifying the earlier roadway alignment is along Chubb Hill, in the vicinity of the Rodzinski property (544 Old Military Road). This is located in Phase 1 of construction.

Figure 7. Correlation of Old Military Road Roadway Alignment: 1804-5 and post-1817.



Soil borings DAH-10 and DAH-12 identified either organics or wood in the cores. Cores taken at the Broadway reconstruction in Cheektowaga, Erie County, also identified organic and wood remains in cores. Subsequent archaeological investigations uncovered remains of a plank road in those locations. Soil boring locations and notes are given in Table 2. Investigations near these locations seem likely to offer good possibilities for identifying wooden roadway construction, if such was present. Boring DAH-10 is located in Phase 1 of construction, just east of the Averyville Road junction, DAH-12 is located in Phase 2 of construction, near the Old Stagecoach Inn (M. Lyons Inn c. 1864).

Table 2. Soil Boring Locations.

No.	Sta.	Location	Depth (Ft.)	Asphalt	Sub Base	Notes
1	1+250	south shoulder	9.3	5"	8"	petroleum odor 3'
2	1+300	south travel lane	7.8	5.5"	10"	
3	1+605	north travel lane	8.3	5"	10"	possible fill to 2'
4	2+025	center	10.0	8.5"	10"	
5	2+740	south shoulder	10.0	--	--	
6	2+900	north travel lane	10.0	11.5"	10"	petroleum odor 2', 4'
7	3+155	north travel lane	9.7	6"	6"	cobble 4'
8	3+400	east travel lane	10.0	--	--	
9	4+045	center	10.0	7.5"	8"	gravel 3', cobble 6', 8'
10	4+170	north travel lane	10.0	7.5"	8"	sand & gravel fill 2', asphalt 3', organics 3-4.5', sand fill 5-6', organics 7', organics & concrete? 8'
11	4+485	north travel lane	10.0	7.5"	8"	
12	4+875	north travel lane	9.4	7"	8"	sand fill 4', wood 5', sand and gravel 7-9'
13	5+905	south travel lane	7.6	5.5"	8"	gravel 3'
14	6+335	north travel lane	8.1	6"	8"	
DAB-1	3+590	north of river	37.0	--	--	sand fill 2', gravel 3', organics 4-6', sand and gravel 6-15'
DAB-2	3+620	south of river	21.0	--	--	sand fill to 4', silt and peat 4-6'

Profile drawings identify a number of locations where the vertical profile will be reduced, or where existing utilities will be relocated or replaced. These locations are given in Table 3.

Table 3. Vertical Profile Reductions and Utility Relocations (DDR 2/08)

Sta. Begin	Sta. End	Action	Depth/Item	Plan Sheet
2+516		replace	450mm culvert	PRO-6
2+680	2+790	relocate	existing 8" DIP water main	PRO-7
2+700	2+800	reduce	grade c. 50cm	PRO-7
2+870	2+970	relocate	existing 8" DIP water main	PRO-8, 8B, 9
2+870	2+970	reduce	grade c. 1.5m	PRO-8, 8B, 9
3+060	3+120	relocate	existing 8" DIP water main	PRO-9, 16
3+150	3+210	relocate	existing 8" DIP water main	PRO-16
3+160	3+210	reduce	grade c. 50cm	PRO-16
3+420	3+810	relocate	existing 12" DIP water main	PRO-12, 13, 14
3+420	3+510	reduce	grade c. 1m	PRO-12
4+120	4+170	relocate	existing 12" DIP water main	PRO-22, 17
4+120	4+150	reduce	grade c. 50cm	PRO-22
4+183		replace	450mm culvert	PRO-17
4+460	4+590	relocate	existing 12" DIP water main	PRO-19
4+460	4+510	reduce	grade c. 50cm	PRO-19
4+780	4+820	replace	existing 12" DIP water main	PRO-21
4+859		replace	750mm culvert	PRO-21
4+880	4+920	replace	existing 12" DIP water main	PRO-21, 22
5+224		replace	450mm culvert	PRO-24
5+610	5+615	replace	twin 1.18m culverts	PRO-26
5+720	5+760	replace	existing 6" DIP water main	PRO-27
5+860	5+940	replace	existing 6" DIP water main	PRO-28

Sta. Begin	Sta. End	Action	Depth/Item	Plan Sheet
5+860	5+940	reduce	grade c. 1m	PRO-28
5+980	6+050	relocate	existing 12" DIP water main	PRO-29
5+990	6+040	reduce	grade c. 50cm	PRO-29
6+645		replace	540mm culvert	PRO-33

Based on this information, and on comparison with other projects seeking to identify roadway construction, four test locations, two in each construction phase, are recommended. The sections in Phase 1 should include the "best guess" location for the earlier roadway alignment, and a location in the vicinity of soil boring DAH-10, near the junction of Averyville Road, where possible remains of wooden roadway construction were identified, as preferred locations. Sections for Phase 2 should include locations near soil boring DAH-12 that again contained possible traces of wood, and a second section preferably near to older settlements along Old Military Road, but in a "dryer" location.

The following locations represent the preferred locations for examination (See Project Maps, Figures 8-13).

Phase 1 Locations.

1a. 544 Old Military Road, between Sta. 2+695 and 2+725. From centerline to ROW edge on south side of road. Primary objective is identification of earlier roadway alignment, if possible. This location is in an area of vertical profile reduction and utilities relocation, and it is a primary location for potential identification of the earlier road. It is also relatively free of identified utilities on the south side, and has good visibility for traffic.

1b. 544 Old Military Road, between Sta. 2+880 and 2+900. From centerline to ROW edge on south side of road. Primary objective is identification of earlier roadway alignment, if possible. This location is an alternative to 1a—it is less desirable as it is on a steeper slope and has poorer visibility for traffic. This area will be reduced in vertical profile and have utilities relocated.

2. 12 Station Road/5Averyville Road, between Sta. 4+140 and 4+160. From centerline south to ROW edge on south side of road. Primary objective is potential recovery of organic remains as identified in DAH-10. Additionally, this area is at the junction of Old Military Road and Averyville Road and has historic interest for the early development of settlement in the area. This area will be reduced in vertical profile and have utilities relocated.

Phase 2 Locations.

3. 3 Stagecoach Way, between Sta. 4+835 and 4+855. From centerline south to ROW edge on south side of road. Primary objective is potential recovery of organic remains as identified in DAH-12. Additionally this area has historic interest as location of early inn for travelers. This area is relatively free of existing utilities and has significant potential archaeological interest.

4a. 132 Old Military Road, between Sta. 5+870 and 5+940. From centerline south to ROW edge on south side of road. Primary objective is identification of road construction phases in a "dryer" location. This location is relatively free of utilities, and will have vertical profile reduction and utilities relocation.

4b. 293 Old Military Road, between Sta. 4+540 and 4+560. From centerline south to ROW edge on south side of road. Primary objective is identification of road construction phases in a "dryer" location. Location also has interest as site of early settlement along Old Military Road (293 Old Military Road c. 1875, 288 Old Military Road probably M Brewster, 1876, post office c. 1858). This location has good visibility for traffic.

Methods and Time

In previous archaeological investigations, test units were on average 2m wide by 5m long and varied in depth between c. 1.5 and 2 m, depending on the depth of deposits. Similar size units are recommended for Old Military Road. A general unit of 2m in width and approximately 5m in length—length being the distance from the road centerline to the edge of the ROW/project APE—is suggested. It is recommended that the existing asphalt and sub-base be removed mechanically over the entire unit. Soils along one side of the length of the unit should be

mechanically excavated to sterile subsoils or to wooden roadway if that can be identified, to create a standing profile (approximately 5m length across the roadway x 1m width). Soil borings suggest that this profile may be up to 8 ft. (2.5m) in depth. The unit should then be excavated by hand over the remaining width to create a series of plan areas to record identifiable stages of road construction. Depending on the depth and stability of soils, a stepped profile may need to be created, with a wider unit (3-4m) and "steps" of approximately 1m wide by 1m deep.

It is anticipated that each mechanical excavation will require 2-4 hours, depending on traffic and utilities, and the excavation and recording of each until will require 1-3 days dependent on the complexity of the profile encountered. Consultation with engineering staff will be required to determine appropriate excavation strategies dependent on soil conditions and utilities locations. Once data recovery is complete, units will be mechanically backfilled and temporarily surfaced to allow for traffic flow.

Timing for archaeological excavation of units in Phase 1 and Phase 2 project areas will be coordinated with construction requirements. It is anticipated that the archaeological investigations will be part of the overall sequence of construction phasing, but that construction work in areas designated for archaeological investigation will not be undertaken until the Data Recovery report has been reviewed by OPRHP.

Data Recovery

In addition to plan and profile drawings for each section and sub-sections thereof, data recovery will include standard archaeological recording techniques for each identified "layer/level" or feature within the unit (standardized forms, photographs, site notes, etc...) and the recovery of small artifacts through screening of all soils excavated by hand and at least a sample (10-15% minimum) of mechanically excavated soils. The Principal Investigator will exercise judgment over the screening of mechanically excavated soils based on visual inspection. A representative sample of construction materials identified will be retained. If large intact or substantially intact features are encountered (e.g. a wooden roadway) they will be left in situ and documented. Samples for analysis (float, wood, charcoal, concrete etc...) will be collected as relevant.

Analysis and Report

Standard archaeological analysis of soils, features and recovered materials will be performed by archaeological staff and specialists as required (e.g. faunal analysis, wood identification). A preliminary report in the format of an "end-of-fieldwork" letter will be prepared at the completion of data recovery. The final report will be in the format of a Data Recovery report, as specified in the NYSED-NYSDOT Cultural Resource Investigations Work Scope, 2004. It is anticipated that the final report will be complete within a month of the end of fieldwork. Dependent on construction phasing and timing needs, the final report may be submitted in two parts, to correspond with the two project phases. It is anticipated that each part can be reviewed and approved separately.

Appendices

Additional Bibliography

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Public Roads Administration 1949 Highway Practice in the United States of America, Federal Works Agency, Washington, D.C.

Raitz, Karl and Nancy O'Malley 2007 "Local-scale turnpike roads in nineteenth-century Kentucky," Journal of Historical Geography 33: 1-23.

Reith, Christina B. 2001 Cultural Resource Data Recovery Report, The Ballston Archaeological District (including The Ballston Blacksmith Shop site (NYSM # 10591), The D. Harlow I Site (NYSM # 10593), The Ballston Courthouse & Jail Site (NYSM # 10594), The Pearson Site (NYSM # 10600), The Leonard Store and Print Shop site (NYSM # 10601), The Ballston Tavern Site (NYSM # 10602), The Christianson Site (NYSM # 10603), and The Watrous Site (NYSM # 10604) and The Jennings Site (NYSM # 10605) for PIN 1753.50.121 Middle Line Road (Route 59) from Route 50 to Route 67, Town of Ballston, Saratoga County, New York (MCD 09101), New York State Museum, Program Year 1999-2000, OPRHP #97PRO748.

Wixom, Charles W. ARBA Pictorial History of Roadbuilding, American Road Builders' Association, Washington, D.C.

Project Maps

The legend for all project maps is contained on this page.

Legend

Project APE--
Cut
Fill

Soil Borings
Positive ST
Negative ST

Utilities Locations

Excessive Slope
Previous Disturbance
or Other
Wetlands

Property/Residence Nos. 13 Carolyn Road
OPRHP#, MDS# or Other Historic MDS #1

Photo Angle 4

Figure 8. Phase 1—Location 1A. 544 Old Military Road.

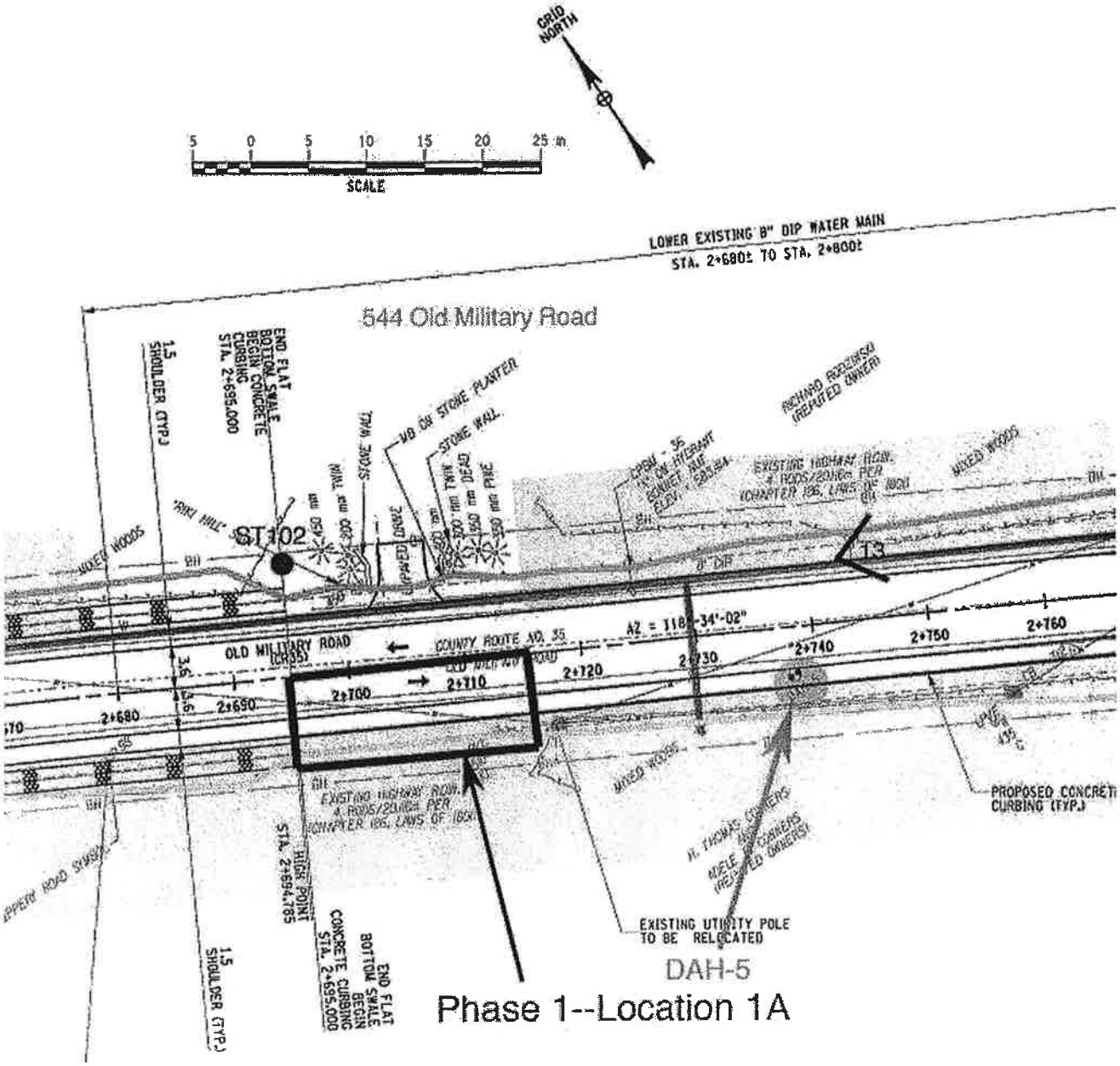


Figure 9. Phase 1—Location 1B. 544 Old Military Road.

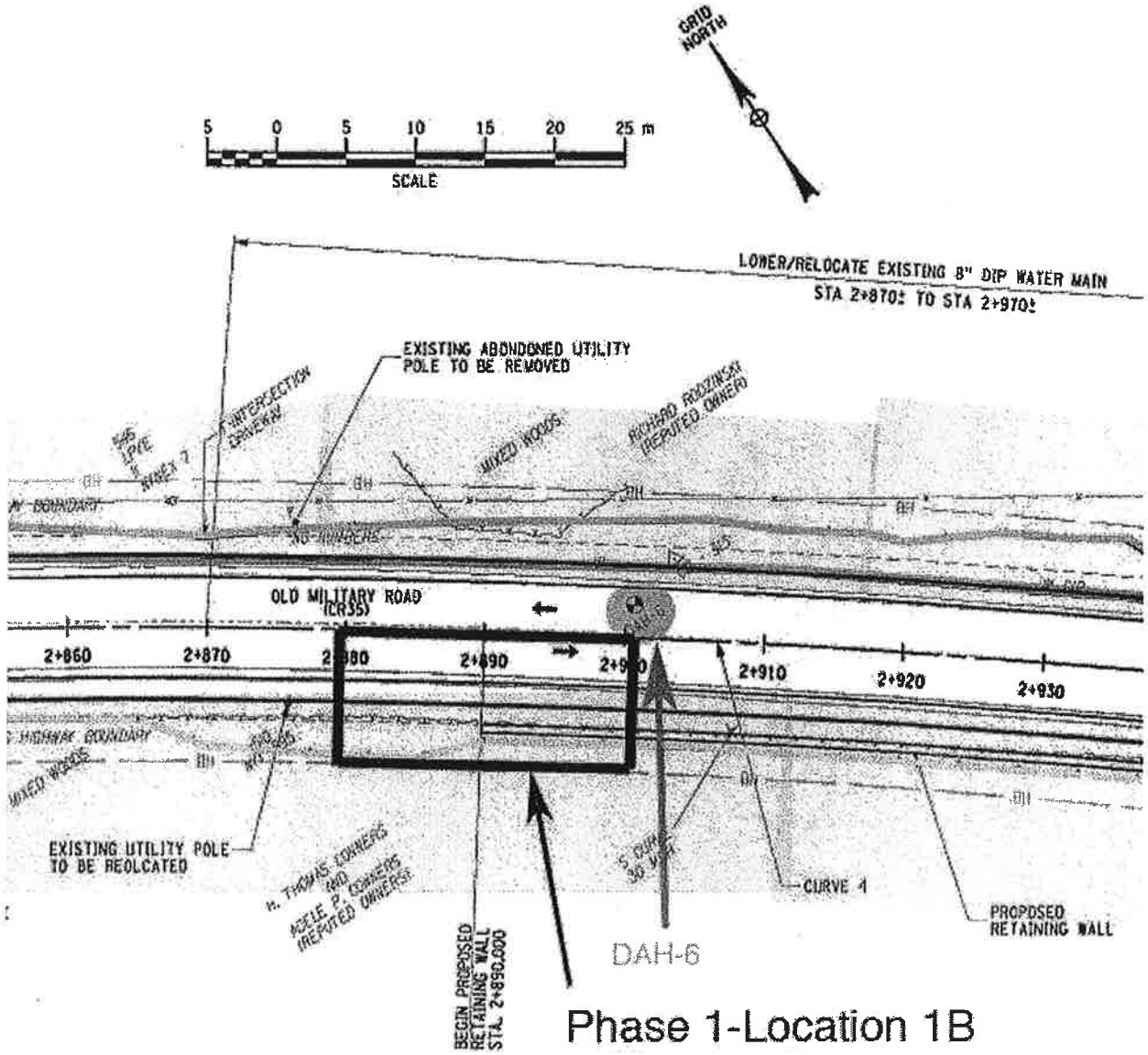


Figure 10. Phase 1—Location 2. Junction of Old Military Road and Averyville Road.

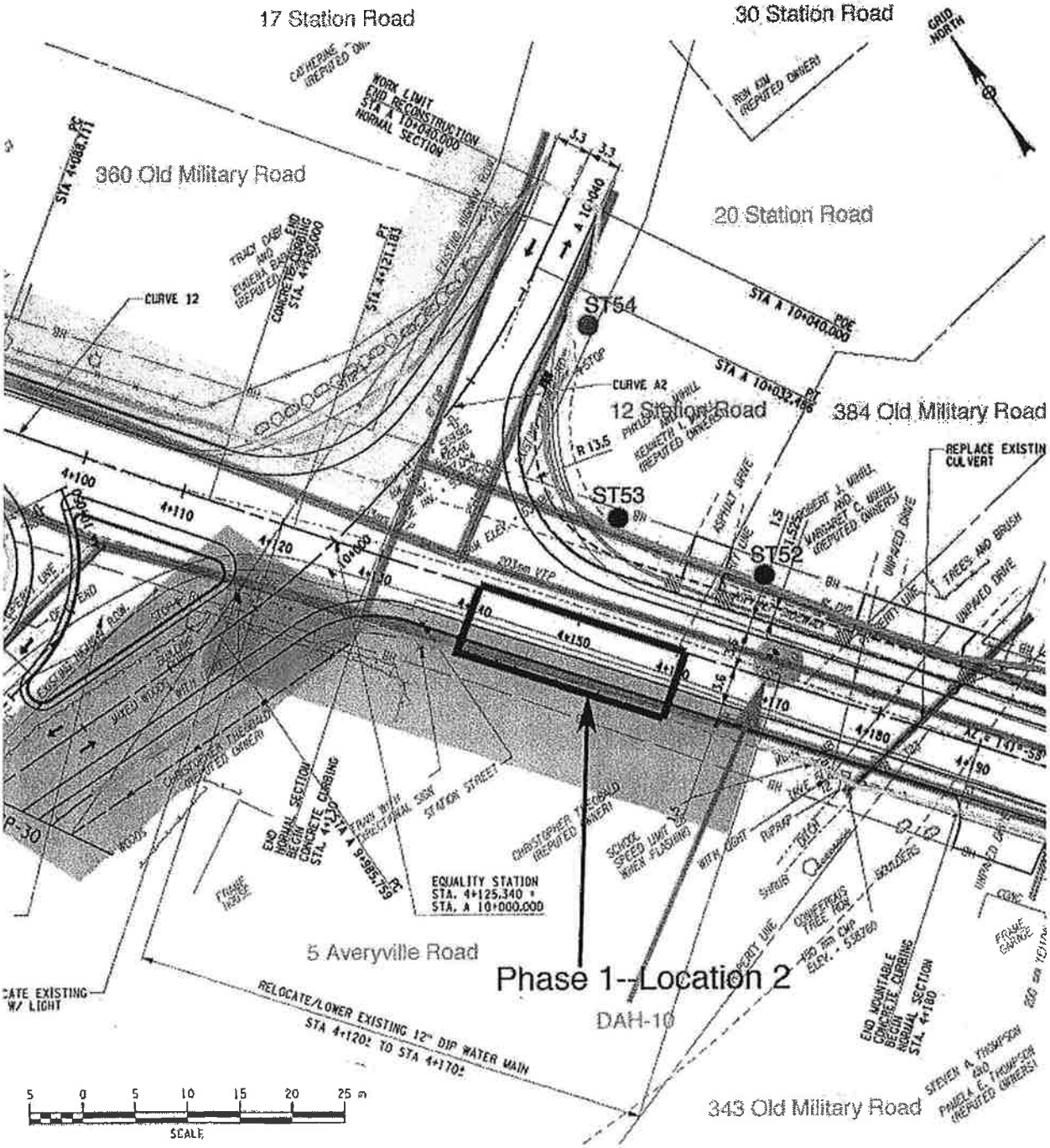


Figure 11. Phase 2—Location 3. Old Stagecoach Inn, Old Military Road.

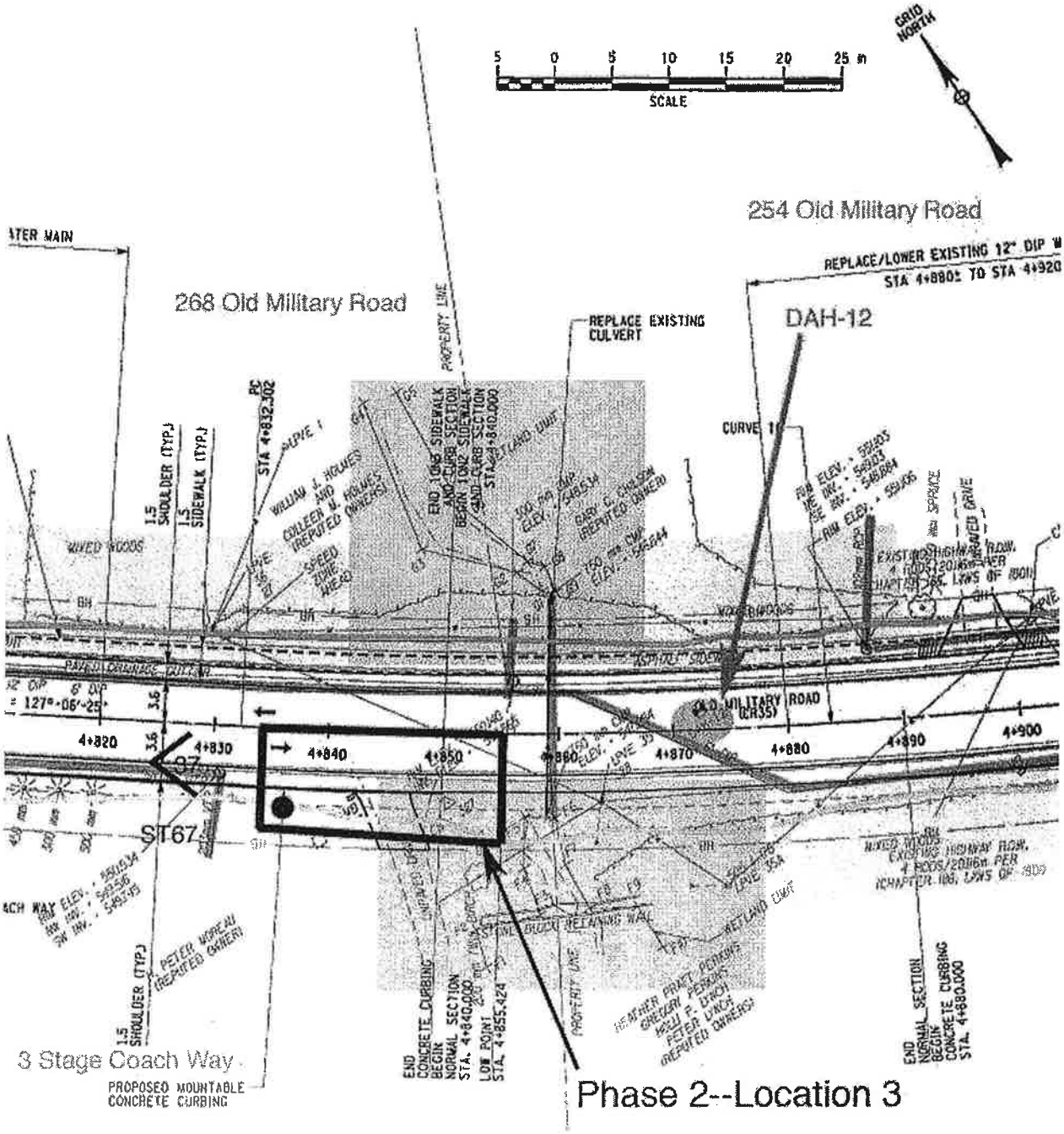


Figure 12. Phase 2—Location 4a. 132 Old Military Road new John Brown Road.

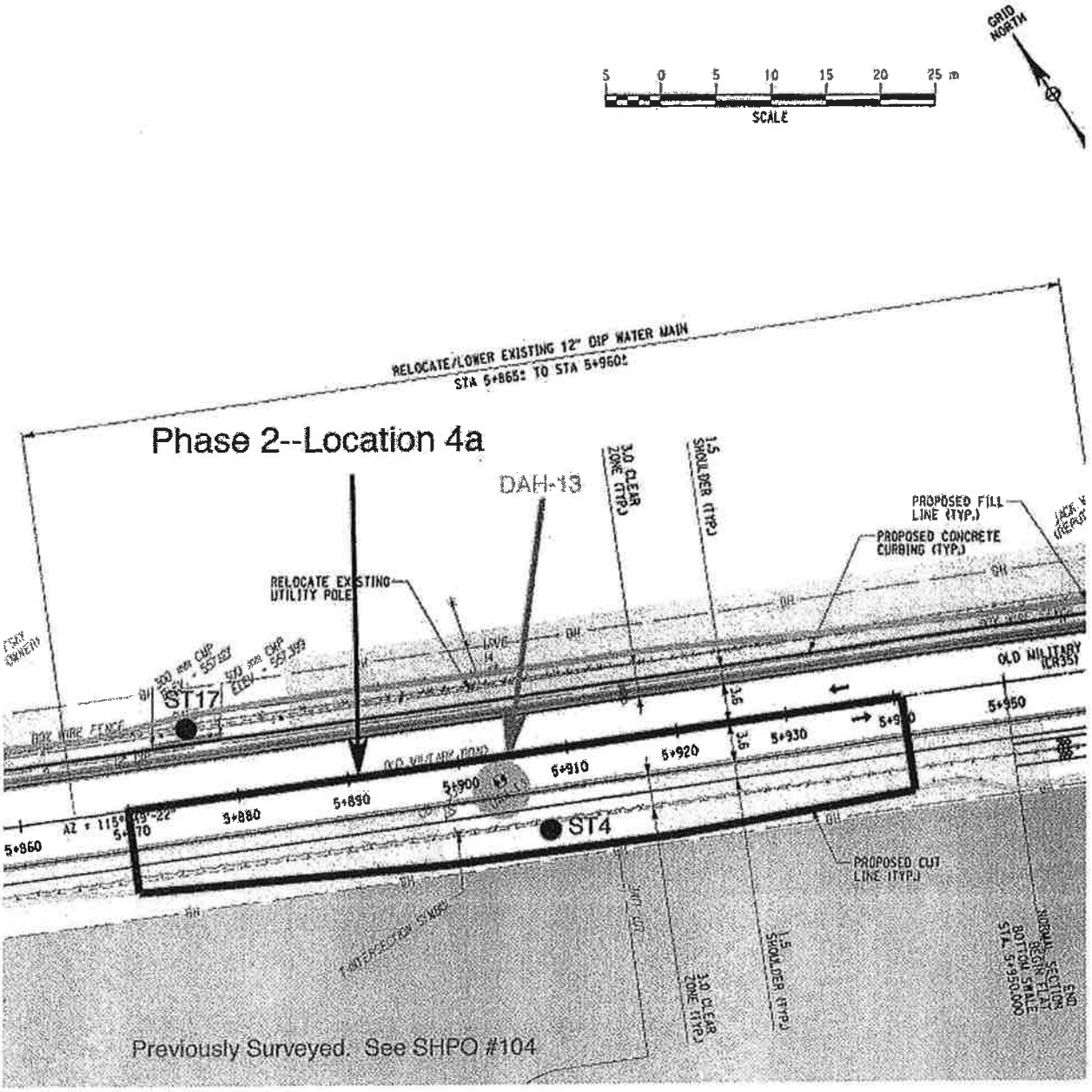
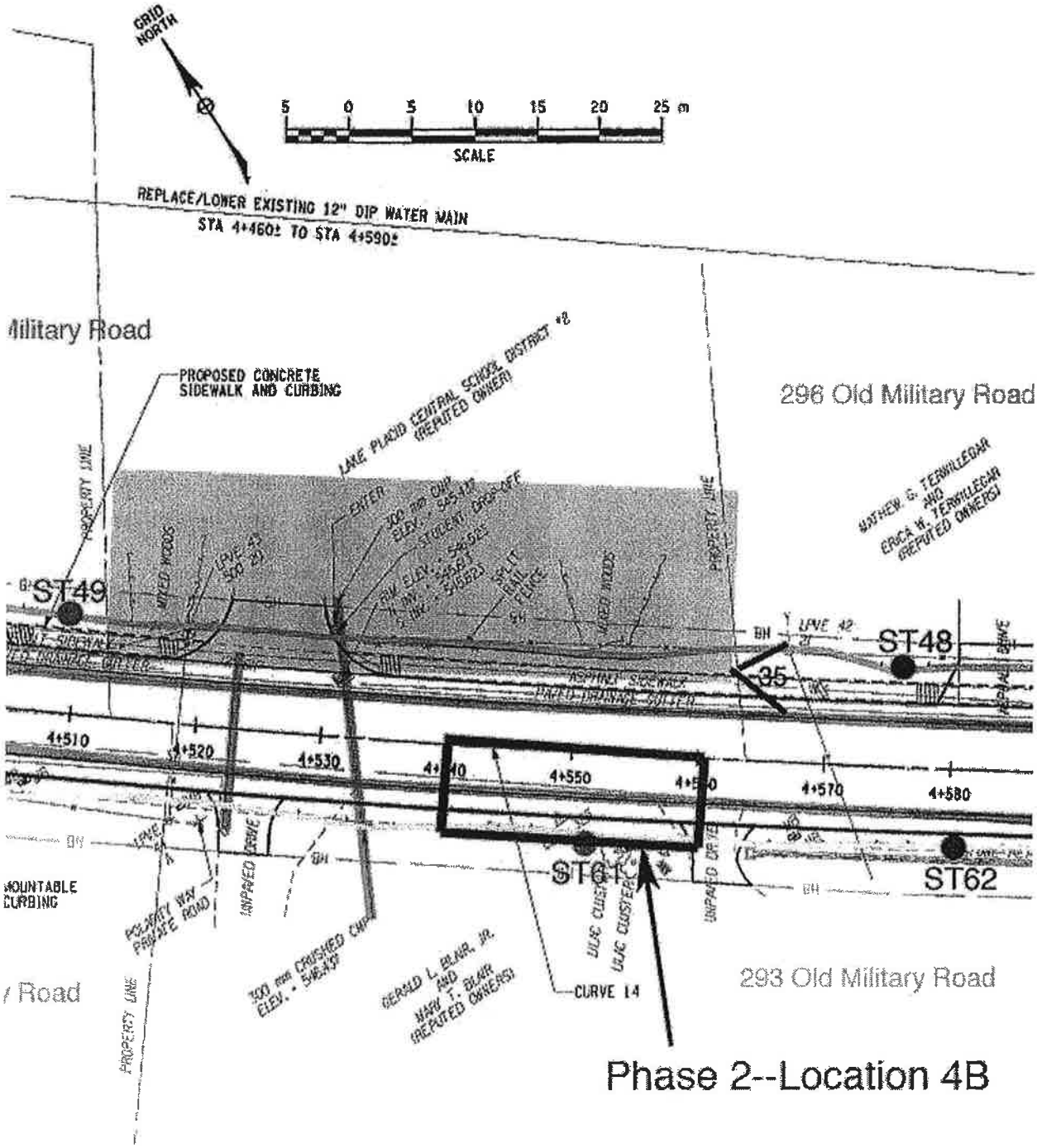


Figure 13. Phase 2—Location 4B. 293 Old Military Road.



Correspondence

1. ***OPRHP to Essex County DPW, June 30, 2008***
2. ***Essex County DPW to OPRHP, July 22, 2008***
3. ***OPRHP to Essex County DPW, August 12, 2009***
4. ***Essex County DPW (A. LaVigne) to Foit Albert, Feb. 8, 2007.***

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PERMITS

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APA Form (3rd Public Notice Letter)
May 2004

00671

NEW YORK STATE
Adirondack
parkagency

Received
SEP 26 2011
Project No.
File
Foit-Albert Associates

MAJOR PROJECT PUBLIC NOTICE
APPLICATION DETERMINED
APA PROJECT No. 2010-161

Date: September 23, 2011

The purpose of this notice is to inform you that on **September 23, 2011,** the Agency conditionally approved the project and issued Permit **2010-161.**

The project is located in the Town of **North Elba, Essex** County, on or near **Old Military Road.** The project involves **alignment, roadway, and shoulder improvements involving a greater than 25% expansion on Old Military Road from Carolyn Road to the railroad crossing near Mill Pond Drive and replacement of the bridge over the Chubb River on a new roadway alignment involving wetlands.**

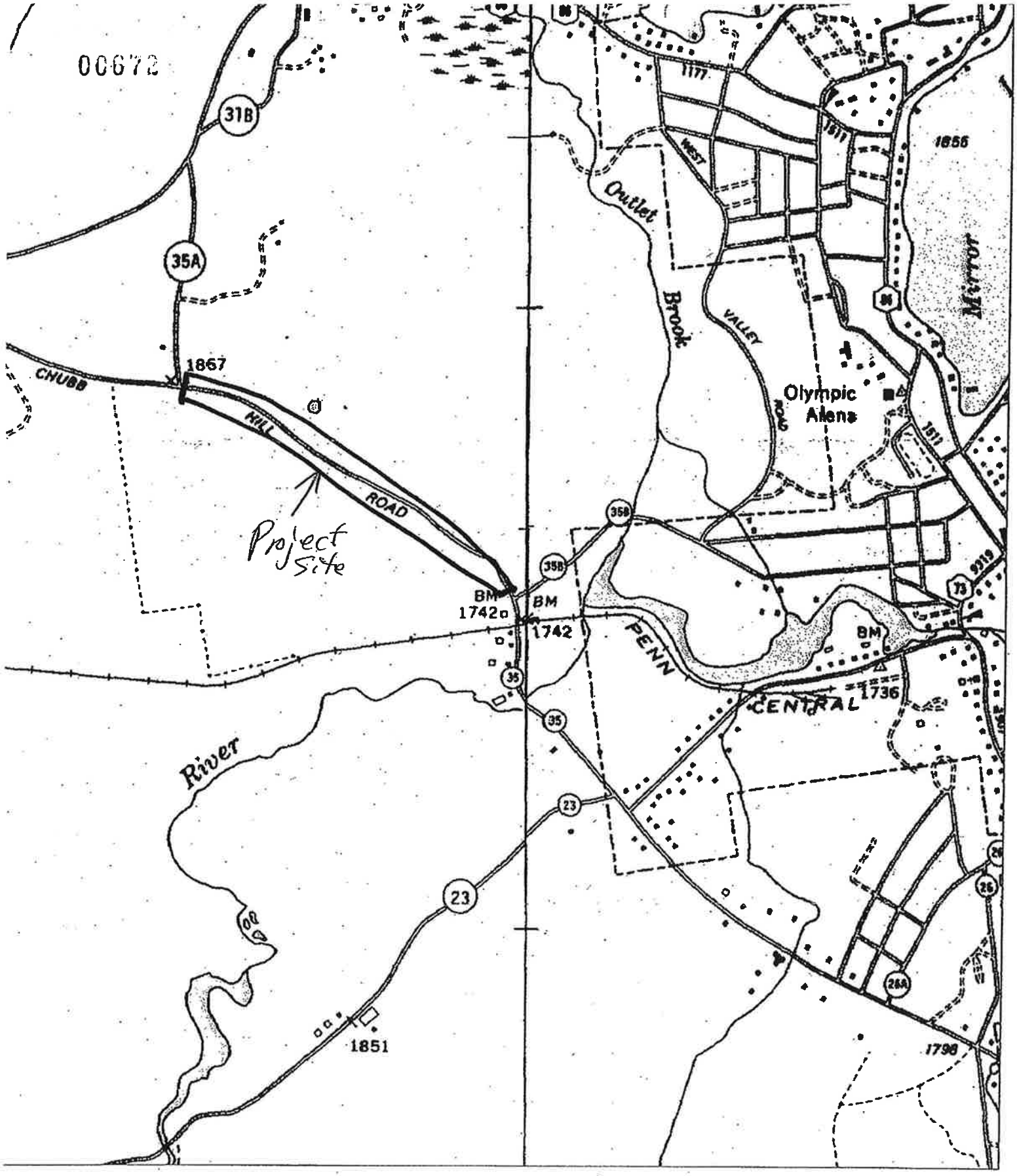
Please contact **Virginia Yamrick,** the assigned Environmental Program Specialist, if you should have any questions.

9/23/11
Date

Richard E. Weber, III
Deputy Director, Regulatory Programs

REW:VY:slp

cc: Essex County DPW, Frederick H. Buck
J. Joseph Dorety, Fisher Associates



s map is advisory only and should not be used to confirm the exact presence or location of wetlands, nor any exact boundary for determining Agency jurisdiction.

New York State
Adirondack
Park
Agency
Geographic
Information
System

C245E

2010 - 161

xxwestwinghp093209.eps 07/21/09 Scale 1:15911

THIS IS A TWO-SIDED DOCUMENT

NEW YORK STATE
Adirondack parkagency
P.O. Box 99 · Ray Brook, New York 12977 · (518) 891-4050

COPY

APA Project Permit
2010-161

Date Issued: September 23, 2011

In the Matter of the Application of

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

for a permit pursuant to §809 of the Adirondack Park Agency Act and 9 NYCRR Part 578

To the County Clerk: This permit must be recorded on or before November 22, 2011. Please index this permit in the grantor index under the following names:

1. **Essex County Department of Public Works**

SUMMARY AND AUTHORIZATION

Essex County Department of Public Works (DPW) is granted a permit, on conditions, authorizing alignment, roadway, and shoulder improvements involving a greater than 25% expansion of Old Military Road; and replacement of an existing bridge over the Chubb River and roadway improvements involving wetlands on a new roadway alignment, in areas classified as Rural Use and Hamlet by the Official Adirondack Park Land Use and Development Plan Map in the Town of North Elba, Essex County.

This project may not be undertaken, and no transfer deed shall be recorded, until this permit is recorded in the Essex County Clerk's Office. This permit shall expire unless so recorded on or before November 22, 2011 in the names of all persons listed on the first page hereof and in the names of all owners of record of any portion of the project site on the recordation date.

This project shall not be undertaken or continued unless the project authorized herein is in existence within four years from the date the permit is recorded. The Agency will consider the project in existence when proposed reconstruction and realignment of Old Military Road and bridge replacement over the Chubb River have been completed.

Nothing contained in this permit shall be construed to satisfy any legal obligations of the applicant to obtain any governmental approval or permit from any entity other than the Agency, whether federal, State, regional or local.

AGENCY JURISDICTION

The project consists of a greater than 25% expansion of an existing county highway in a Rural Use land use area; bridge replacement and roadway improvements involving wetlands in a Hamlet land use area. The project is a Class A regional project requiring an Agency permit pursuant to §810(1)(d)(20), §810(1)(a)(1), and §810(1)(a)(7) and of the Adirondack Park Agency Act; and is a regulated activity requiring a wetlands permit pursuant to 9 NYCRR Sections 578.2 and 578.3(n)(1)(iv).

PROJECT SITE

The portions of the project subject to Agency jurisdiction involve Old Military Road from the vicinity of Carolyn Road to the railroad crossing near Mill Pond Drive in a Rural Use land use area. In addition, the project involves those portions of Old Military Road associated with roadway improvements involving wetlands, and bridge replacement over the Chubb River involving wetlands on a new roadway alignment in a Hamlet land use area. The project is located in the Town of North Elba and the Village of Lake Placid, Essex County within the land use areas designated above, and as shown on the Adirondack Park Land Use and Development Plan Map.

PROJECT DESCRIPTION AS PROPOSED

The project as proposed and conditionally approved herein is summarized as follows:

- The first portion of the project includes reconstruction and realignment of Old Military Road from Station 1+785± to Station 3+405±. The second portion of the project involves roadway improvements involving wetlands (as outlined in Table 2 of the Wetland Mitigation and Monitoring Plan), and replacement of the bridge over the Chubb River involving wetlands from Station 3+593± to Station 3+627±.
- The replacement bridge will be 13.2± meters wide, and will incorporate a 3 meter wide shared use lane for pedestrians and bicycles. The new bridge is approximately 15 meters (centerline to centerline) east (downstream) of its current location. The bridge will have a 34± meter span which represents an increased hydraulic opening compared to the existing bridge.
- Proposed roadway realignment will improve non-standard horizontal and vertical alignments to the maximum extent practicable along the project site. This will improve sight distance and rideability.
- Bridge replacement will result in approximately 3,273± square feet of wetland area to be impacted by the project. This impact is to be offset by the creation of a total of 4,910± square feet of wetland area. The wetland mitigation areas to be created are located adjacent to both sides of the Chubb River.

The portions of the project described above are part of a much larger reconstruction and rehabilitation project for the Town of North Elba and the Village of Lake Placid that is contained within a set of plans (173± sheets) entitled "Reconstruction/Rehabilitation of Old Military Road (C.R. 35) – Phase I in the Village of Lake Placid and the Town of North Elba, P.I.N. 1754.96" prepared by Foit-Albert Associates, Architecture, Engineering, and Surveying, P.C. and is dated July 2010 (except as specifically noted herein). Proposed wetland mitigation and monitoring is described in a March 2011 "Wetland Mitigation and Monitoring Plan for Reconstruction of Old Military Road (CR-35) – Carolyn Road to John Brown Road"; prepared by Fischer Associates and received on April 4, 2011.

Contained within the application materials is the Stormwater Pollution Prevention Plan (SWPPP). The SWPPP is entitled "SWPPP Report for Rehabilitation and Reconstruction of Old Military Road (County Road 35)" for the Village of Lake Placid and the Town of North Elba, Essex County; P.I.N. 1754.96. The report was prepared by Fisher Associates, and is dated July 2010.

Reduced-scale copies of the following project plans, which are a portion of the larger set of project plans, are attached as a part of this permit for easy reference. These include:

Sheets GP-1 through GP-10 (dated July 2010), and Sheets GP-12, GP-12A, and GP-13 (dated May 2011); are entitled General Plans.

Sheets WP-1, WP-1A, WP-ADD1, WP-3, WP-4, and WP-5 (dated May 2011), and Sheets WP-2, WP-6, WP-7, WP-8, and WP-9 (dated February 2011); are entitled Wetland/Stormwater Mitigation Plans.

The original, full-scale maps and plans referenced in this permit are the official plans for the project.

CONDITIONS

BASED UPON THE FINDINGS BELOW, THE PROJECT IS APPROVED WITH THE FOLLOWING CONDITIONS:

1. The project shall be undertaken as described in the completed application, the Project Description as Proposed and Conditions herein. In the case of conflict, the Conditions control. Failure to comply with the permit is a violation and may subject the applicant, successors and assigns to civil penalties and other legal proceedings, including modification, suspension or revocation of the permit.

2. This permit is binding on the applicant(s), all present and future owners of the project site and all contractors undertaking all or a portion of the project. Copies of this permit and the site plan map(s) referred to herein shall be furnished by the applicant to all subsequent owners or lessees of the project site prior to sale or lease, and by the applicant or any subsequent owner or lessee undertaking construction to any contractors undertaking any

portion of this project. All deeds conveying all or a portion of the lands subject to this permit shall contain references to this permit as follows: "The lands conveyed are subject to Adirondack Park Agency Permit 2010-161 issued September 23, 2011, the terms and conditions of which are binding upon the heirs, successors and assigns of the grantors and all subsequent grantees."

3. The Agency may conduct such on-site investigations, examinations, tests and evaluations as it deems necessary to ensure compliance with the terms and conditions hereof. Such activities shall take place at reasonable times and upon advance notice where possible.

Road Reconstruction and Realignment/Bridge Replacement

4. This permit authorizes the reconstruction and realignment of a section of Old Military Road, roadway improvements involving wetlands, and the replacement of the bridge over the Chubb River involving wetlands only as shown on the project plans. Any deviation from what is shown on the project plans shall require prior Agency review and approval in the form of a new or amended permit.

Waste Disposal

5. No waste material generated by the project shall be disposed of on the project site. At least 30 days prior to disposing of any debris generated by the project authorized herein, the contractor shall obtain either a new or amended permit or letter of non-jurisdiction from the Adirondack Park Agency for the disposal of the waste material generated by the project. Per 6NYCRR Part 360, "Solid Waste Management Facilities" October 9, 1993, by New York State Department of Environmental Conservation, debris means vegetative matter, soil and rock resulting from activities such as land clearing and grubbing, utility line maintenance or seasonal or storm related cleanup such as trees, stumps, brush and leaves and including wood chips generated from these materials. If the waste generated by the project is disposed of at a County Transfer Station approved to accept construction debris or at an Agency-approved or non-jurisdictional waste disposal area, or is located outside of the Adirondack Park boundary, no further Agency approval is required.

6. No construction debris or surplus excavated materials shall be disposed of off-site in or within 100 feet of wetlands or surface water bodies, including permanent and intermittent streams, other than those waste disposal areas that have been approved by the Agency or in waste disposal areas determined to be non-jurisdictional. There shall be no waste disposal on Forest Preserve lands.

7. On the project site, temporary material stockpiles, material storage, and temporary equipment storage shall be allowed within the Old Military Road right-of-way provided there is no tree clearing

and no wetlands are located within 100 feet of any temporary stockpile or storage area. Upon completion of that part of the work related to the temporary stockpiles and/or storage, these areas shall be completely restored to pre-construction conditions.

Erosion Control/Storm Water Management

8. All erosion and sediment control measures in the contract documents shall be properly installed and maintained and these practices shall be installed in accordance with the Agency approved plans.

9. All disturbed areas shall be temporarily mulched to eliminate off-site impacts to wetlands and water quality or the immediate permanent re-establishment of turf shall be accomplished by the contractor. Within 100 feet of any water body, river or stream or any wetlands, temporary mulch shall be installed immediately following any earth disturbance. In no event shall any other areas on the project site exposed by clearing and grubbing be left in an unprotected condition for longer than two days.

Invasive Species Management

10. All equipment, including but not limited to trucks, excavators, tractors, etc., and hand excavation tools such as shovels, rakes and picks, to be used on the site shall be clean and free of soil, mud or other similar material that may contain invasive plant materials, seed or other propagules. All equipment shall be pressure washed with hot water prior to being brought on the site. The contractor shall thoroughly clean all construction equipment and vehicles operating in infested areas prior to moving to non-infested areas. If washed on the project site, equipment shall be washed in one location to prevent the distribution of propagules among different wash sites. The intent of this condition is to insure invasive plant species are not spread to the construction site. This condition does not apply to pavement grinders, paving equipment, dump trucks used to transport hot asphalt or other equipment, including hand tools, used solely to resurface the highway or to remove/install signs or guide rail.

11. Essex County DPW shall identify priority invasive plant species determined through consultation with the Adirondack Park Invasive Plant Program (Adirondack PRISM) throughout the project site. The invasive plant species populations shall be evaluated to determine if it is reasonable and practical to eradicate or control the population(s) considering the species of concern and the environmental setting. If so, Essex County DPW shall direct its contractors to successfully remove the invasive species according to best management practices. If not, Essex County DPW shall consult with Agency staff regarding any additional appropriate courses of action. The project site shall be monitored annually for a period of two years after the treatment activity to ensure successful removal and control of the targeted invasive species.

12. Essex County DPW shall monitor for invasive species on the site until the end of the construction contract, and shall consult with Agency staff regarding the management of other invasive plant species not originally targeted and appear on the site during the course of monitoring.

13. Essex County DPW shall monitor all fill and topsoil imported to the project site to ensure invasive species are not introduced to the project site.

Shoreline Cutting

14. With regard to the shoreline of the Chubb River, no shoreline vegetation other than that shown on the project plans and referred to in the Wetland Mitigation and Monitoring Plan shall be cut, culled, trimmed or pruned without prior Agency review and approval in the form of a new or amended permit. This condition shall not be deemed to prevent the removal of dead or diseased vegetation or of rotten or damaged trees or of other vegetation that presents a safety or health hazard.

Wetlands/Water Resources

15. Silt fencing and turbidity curtains shall be installed and maintained in accordance with manufacturers' specifications as shown on the project plans to prevent disturbance of or sediment from entering the Chubb River and wetlands. Silt fencing shall be removed once all upslope areas are reclaimed and stabilized by successful establishment of uniform grass ground cover.

16. All exposed soil areas created by the project shall be promptly stabilized and successfully re-vegetated with uniform perennial, indigenous grass ground cover.

17. Proposed wetland mitigation shall be completed in strict compliance with the approved wetland mitigation and monitoring plan referenced herein. Mitigation shall be completed no later than 60 days after completion of the new bridge. A wetland mitigation report shall be submitted to the Agency no later than 12 months after the wetland mitigation has been completed and then again in the second and fifth years. The reports shall be prepared in compliance with the Agency's "Compensatory Wetland Mitigation Guidelines" and shall include a detailed inventory of growing vegetation, including any invasive species, and a description of the hydrology and photographs of the mitigation areas, at a minimum. After review of the monitoring reports and a site investigation, if necessary, Agency staff will determine whether the wetland mitigation is successful. If not, corrective action shall be taken as directed by the Agency until the wetland mitigation goals are met.

18. The wetland mitigation areas shall be kept free of invasive plants. If any invasive plants are found throughout the monitoring period, they shall be removed and monitoring shall continue until they are eradicated.

19. Beyond that specifically authorized herein, no "regulated activity" as defined in the Agency's Freshwater Wetland Regulations (9 NYCRR Part 578) shall occur on the project site without prior Agency approval. Such activities include, but are not limited to, new land use or development in, subdivision of, clearcutting more than three acres within, or dredging or filling of a wetland, or any other activity, whether or not occurring within the wetland, which pollutes it or substantially impairs its functions, benefits or values.

20. As shown on the project plans and as contained in the wetland mitigation and monitoring plan, the edge of Wetland Mitigation Area 3 shall be modified such that it provides a hydrologic connection to the wetland mitigation area previously authorized in Agency Permit 2007-148 and 2007-148R. This will result in one continuous wetland with a hydrologic connection to the Chubb River.

Visual/Open Space Protection

21. Vegetative clearing for the proposed project shall be limited to only that shown on the project plans within the Old Military Road right-of-way and for the bridge replacement over the Chubb River. Any additional clearing beyond those limits will require prior Agency review and approval in the form of a new or amended permit. This condition shall not be deemed to prevent the removal of dead or diseased vegetation or of rotten or damaged trees or of other vegetation that presents a safety or health hazard.

Visual Resource Mitigation

22. Upon completion of the project, Essex County Department of Public Works shall contact the Agency and a site investigation shall be conducted to determine whether additional vegetation should be planted in the vicinity of the retaining walls and bridge constructed on the project site to mitigate visual impacts created by the removal of the existing forested vegetation and roadway realignments. If necessary, a landscaping plan shall be submitted to the Agency for review and approval within 60 days of the site investigation. Any landscaping plan shall be planted the first growing season after approval. All vegetation that is part of the landscaping plan for this project that does not survive shall be re-planted until successfully established in a healthy growing condition.

23. As shown on Note #2 in the Retaining Wall Notes on Sheet RW-1, the block color for the proposed retaining walls shall be submitted to Essex County for approval. Prior to installation of the retaining

wall, color samples for the retaining wall blocks shall also be submitted to the Agency for prior Agency review and approval. Approval may be granted in the form of a letter of permit compliance, new or amended permit - as deemed appropriate by the Agency.

Legal Interests of Others

24. This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to undertake the authorized project or subdivision, nor does it authorize the impairment of any easement, right, title or interest in real or personal property held or vested in any person.

Review of Future Development

25. No further land use and development shall occur on the project site without first obtaining a jurisdictional determination and, if necessary, a permit from the Agency.

FINDINGS OF FACT

Background/Prior History

1. Old Military Road is a town-maintained, two-lane town highway with an asphalt driving surface. The existing bridge over the Chubb River has been determined to be structurally deficient and in need of replacement.

Existing Environmental Setting

2. The lands in the immediate vicinity and adjacent to the project corridor generally consist of hamlet, rural, residential, vacant and commercial areas. Lands of the State of New York classified as Wild Forest, which are part of the Saranac Lake Wild Forest Area, adjoins the project site to the north.

3. Generally deep, well-drained fine sandy loam soils are present at the location of the road realignment area. However, the wetland portions of the project site have very poorly drained and saturated soils.

4. Slopes vary from 0 to greater than 25% throughout the project site. Steep (25%) slopes are generally found along road embankments along the highway corridor. More moderate slopes exist elsewhere within the project site. Existing and proposed roadway profiles are shown on the project plans.

5. The Chubb River, in the vicinity of the proposed bridge replacement is a permanent, non-navigable water body that traverses the project site, and flows in a west to east orientation. Wetlands are located along the shoreline, and

consist of a mix of palustrine emergent and scrub-shrub swamp covertype wetlands, having an overall value rating of 2 pursuant to 9NYCRR 578.6. These wetlands are present within the Chubb River and along the shoreline of the project site.

6. As part of the proposed project, there are multiple retaining walls proposed along the Old Military Road highway corridor for that portion of the project subject to Agency jurisdiction. In particular, there is a proposed retaining wall between Stations 3+160± to 3+224± which requires modifications to both the horizontal and vertical roadway alignments. Agency Permit 2000-133 issued to Richard Boyer (for a new commercial use) contained a permit condition (Condition #13) that imposed a 100 foot no-cut vegetative buffer from the centerline of Old Military Road. As a result of the proposed horizontal and vertical realignments, approximately 45 to 50 feet of that no-cut buffer will be eliminated. In order to mitigate the loss of that vegetation, Richard Boyer (the landowner of Town of North Elba Tax Map Parcel 42.056-1-1) has consented to amend Agency Permit 2000-133 to implement a new 50 foot no-cut vegetative buffer which originates from immediately behind the newly established taking line for the project authorized herein on the Boyer property. In the event there is existing forested vegetation which is removed on Boyer's property to complete final construction and grading of that retaining wall, Boyer and Essex County have agreed to work cooperatively to plant native coniferous vegetation (such as white pine, hemlock, balsam, etc.) for re-vegetation behind the retaining wall and in the new location comprising the 50 foot no-cut buffer subject to Agency Permit 2000-133A. The Agency anticipates issuance of the amended permit (2000-133A) for Boyer will happen concurrently with issuance of this permit.

7. Agency Project 2007-148 and 2007-148R authorized a shared use recreation path involving wetlands on State-owned lands designated Travel Corridor. As part of that recreation path project, a wetland mitigation area was authorized in that permit on lands owned by the Town of North Elba. To date, that project has not been undertaken, but it is anticipated that a portion of the project will be started within the next calendar year. That mitigation area is immediately adjacent to the mitigation area authorized herein for the proposed project. As part of the mitigation, the Agency has coordinated with the applicant to connect the two wetland mitigation areas such that the hydrologic connection will result in one larger wetland to provide for increased water and wetland quality.

Public Notice and Comment

8. The Adirondack Park Agency notified all adjoining property landowners and those parties as statutorily required by §809 of the Adirondack Park Agency Act and published a Notice of Complete

Permit Application in the Environmental Notice Bulletin. No comments have been received.

Local Government Comment

9. In a completed Local Government Notice Form dated June 16, 2009, the Zoning Administrator for the Town of North Elba advised that the applicant has been granted a municipal permit for the proposed project.

Other Regulatory Permits and Approvals

10. The New York State Department of Environmental Conservation has advised that this project can occur under the terms of a Municipal General Permit relating to ECL Article 15 (pursuant to Excavation and Fill in Navigable Waters; and Stream Disturbance). Additionally, Section 401 approval, pursuant to the Clean Water Act for Water Quality Certification is also required.

11. The U.S. Army Corps of Engineers advised that this project can occur under the terms of Army Nationwide General Permit 23.

PROJECT IMPACTS

Wetlands/Water Resources

12. Proper installation and maintenance of proposed silt fencing and turbidity curtains as shown on the project plans and prompt reclamation by successful re-vegetation of disturbed soil areas on road slopes will adequately protect the Chubb River and its associated wetlands from sedimentation.

13. Prompt and successful completion of the compensatory wetland mitigation area as proposed will adequately offset the loss of wetland area and function resulting from the project.

14. Wetlands shown on the project plans and as described herein are intended to alert landowners and others that wetlands are present on the project site. However, this may not identify all wetlands on or adjacent to the project site. Landowners and others contemplating development activities apart from those approved based on the plans referenced in this permit should contact the Agency for a further delineation of wetlands.

15. New land use or development in or proximate to wetlands on the project site will likely result in adverse impacts to wetlands. Prior Agency review of any such development would, however, evaluate the potential for impacts to ensure that they can be avoided or, if they cannot be avoided, they will be limited and adequately mitigated.

16. Proper disposal of waste materials such as soils, rock, stumps, slash and other similar material generated by site clearing and grading and of other wastes generated by the project in accordance the applicant's proposal will avoid adverse impacts to water and wetland resources from contamination and soil erosion and sedimentation.

17. Any temporary material and equipment storage within the Old Military Road right-of-way should be done in a manner that avoids impacts to wetlands and the need for additional clearing. Also, any such storage areas should be fully restored to their pre-construction conditions.

Open Space/Aesthetics

18. Retention of existing trees and vegetation along Old Military Road to the maximum extent practicable will assist in maintaining the existing forested character of the highway corridor and mitigate adverse impacts to open space and aesthetic resources.

19. In order to avoid the potential for adverse open space impacts as a result of construction of the retaining wall between Station 3+160± to Station 3+224±, vegetative cutting and subsequent re-planting should be implemented to screen the existing commercial use as seen when travelling south on Old Military Road.

Historic Sites or Structures

20. In a letter dated August 12, 2008, the New York State Office of Parks, Recreation and Historic Preservation (SHPO) advised that the project (OPRHP File: 06PR03491) will have No Adverse Effect upon historic properties in or eligible for inclusion in the State and National Registers of Historic Places with the condition that the Historic Roadway Scope-of-Work is approved prior to construction and implemented as approved.

In a letter dated July 22, 2009, SHPO reviewed the Historic Roadway Scope-of-Work and requested an overview map which shows locations of trenches to be excavated. If the overview map identifies historic roadways, then SHPO should be contacted to determine whether archeological monitoring is warranted for additional areas. In addition, a final report must be prepared within one year from the date of the EOF letter.

The project as proposed and authorized herein will not cause any change in the quality of "registered," "eligible," or "inventoried" property as those terms are defined in 9 NYCRR Section 426.2 for the purposes of implementing §14.09 of the New York State Historic Preservation Act of 1980.

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CONCLUSIONS OF LAW

The Agency has considered all statutory and regulatory criteria for project approval as set forth in §809(10) of the Adirondack Park Agency Act (Executive Law, Article 27) and 9 NYCRR Part 574; §24-0801(2) of the NYS Freshwater Wetlands Act (ECL, Article 24, Title 8) and 9 NYCRR Section 578.10. The Agency hereby finds that the project is approvable and complies with the above criteria, provided it is undertaken in compliance with the conditions herein.

PERMIT issued this 23rd day of September, 2011

ADIRONDACK PARK AGENCY

BY: Holly E. Kneeshaw
Holly E. Kneeshaw
Assistant Director (Regulatory Programs)

STATE OF NEW YORK)
) ss.:
COUNTY OF ESSEX)

On the 23rd day of September in the year 2011, before me, the undersigned, a Notary Public in and for said State, personally appeared Holly E. Kneeshaw, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that they executed the same in their capacity, and that by their signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

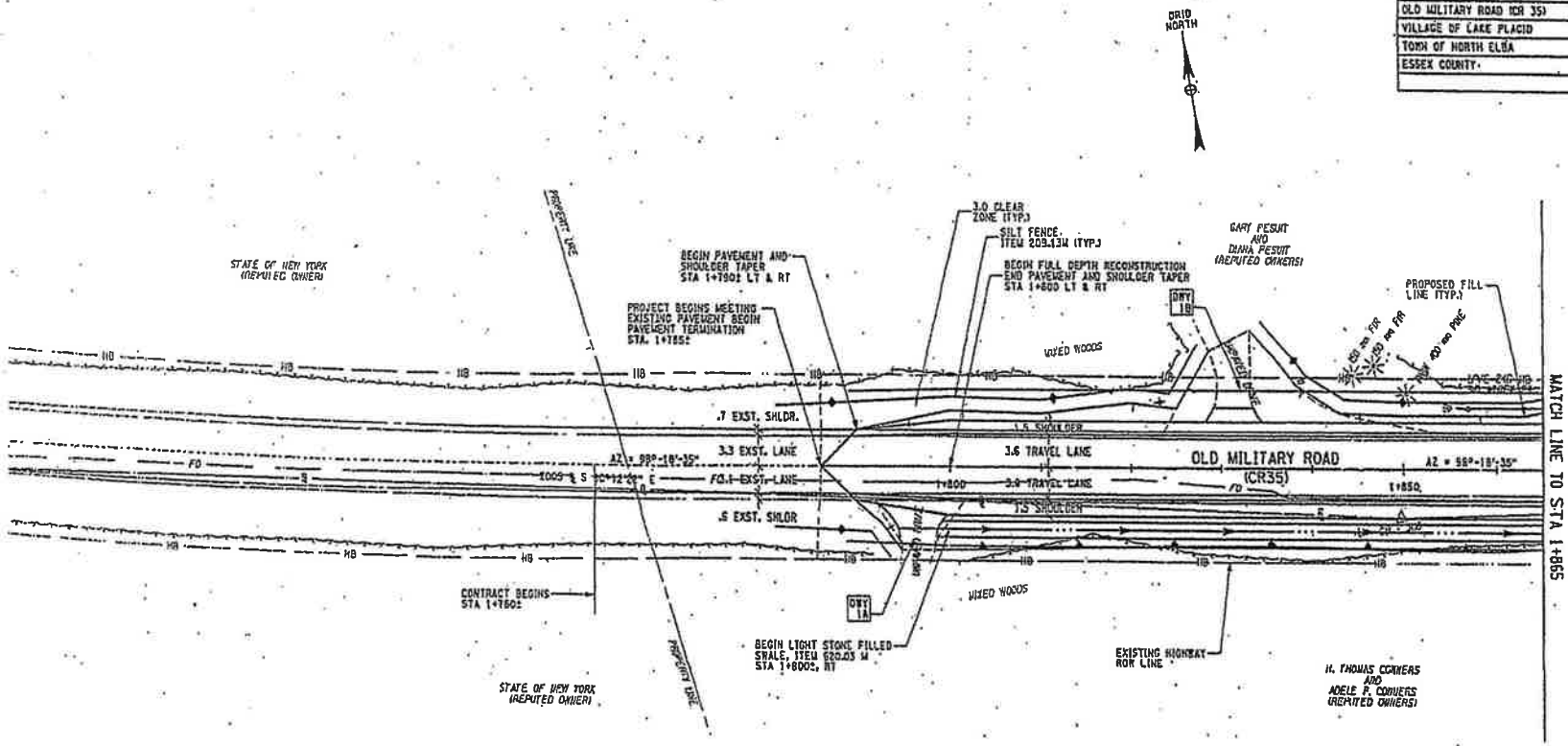
Mary B. Palmer
Notary Public

HEK:VY:SEL:MAO:slp

MARY B. PALMER
Notary Public - State of New York
Qualified in Franklin County
No. 01PA6128439
Commission Expires, June 13, 2013

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		54	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FINAL PLANS
ADIRONDACK PARK AGENCY
P. 2010 - 161
DATE: 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

RECEIVED
MAY 27 2011
ADIRONDACK PARK AGENCY

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 1 OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hagaman Square, 438 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_esh_gnp_01	ONE	JULY 2010	GP-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAN

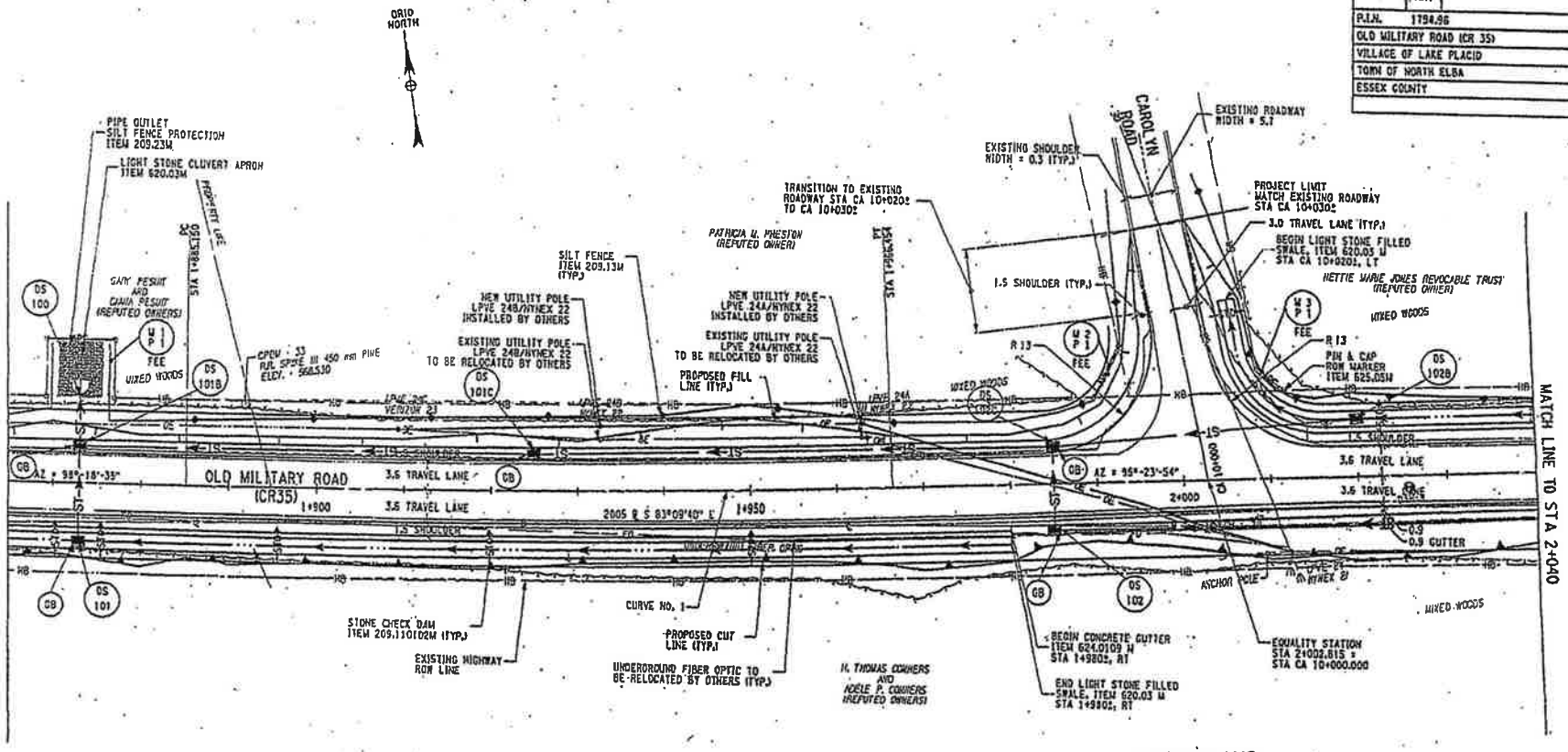
FILE NAME = DATE/TIME = USER =

00685

00636

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		55	173

P.I.N. 1794.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FINAL PLANS
ADIRONDACK PARK AGENCY
P 2010 - 161
DATE: 9-15-11

CURVE NO. 1
R = 1600.000 m L = 81.304 m e = -2.0% LT Δ = 2°-54'-41" T = 40.611 m
PC STA. 1+885.150 N: 605528.946 E: 188696.712
PI STA. 1+925.810 N: 605523.069 E: 188736.946
PT STA. 1+966.454 N: 605519.244 E: 188777.426

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DRY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

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MAY 27 2011
ADIRONDACK PARK AGENCY

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 433 New Karner Road
Albany, New York 12206

GENERAL PLANS
(SHEET 2 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

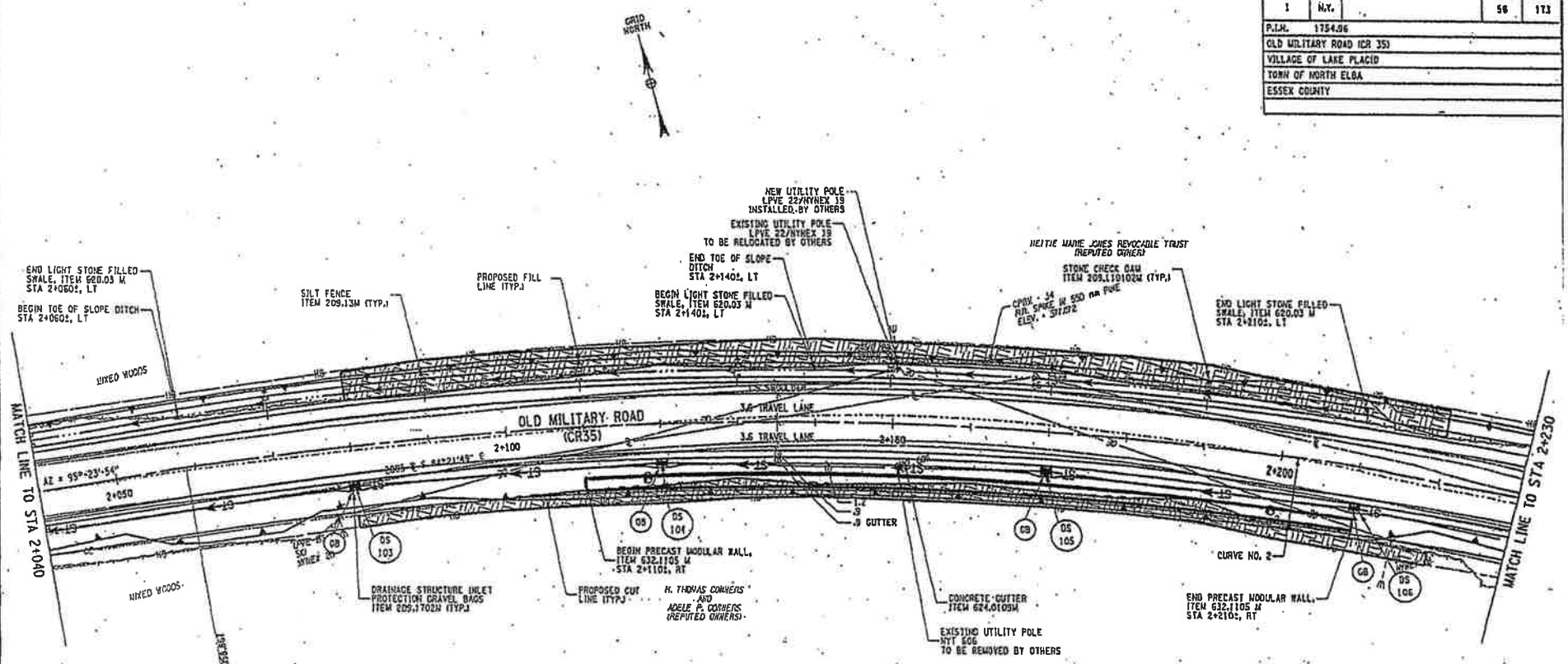
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.gno.02	ONE	JULY 2010	GP-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAN

FILE NAME =
DATE/TIME =
USER =

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		56	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FINAL PLANS
ADIRONDACK PARK AGENCY
P. 2010 - 161
DATE: 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 2
R = 475.000 m L = 297.111 m e = -5.0% RT Δ = 33°-29'-56" T = 142.554 m
PC STA. 2+059.867 N: 605510.550 E: 188869.429
PI STA. 2+201.821 N: 605497.100 E: 189011.749
PT STA. 2+336.583 N: 605.407.336 E: 189123.006

LEGEND:

- DS # = PROPOSED DRAINAGE STRUCTURE
- ◇ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY # = DRIVEWAY NUMBER
- CB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

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MAY 27 2011
ADIRONDACK PARK AGENCY

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 433 New Karner Road
Albany, New York 12205

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SIGNATURE DATE

GENERAL PLANS
(SHEET 3 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gna_03	ONE	JULY 2010	GP-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER E. BALDWIN DESIGNED BY E. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY R. PARKER DRAFTED BY R. PARKER CHECKED BY D. FARNAN

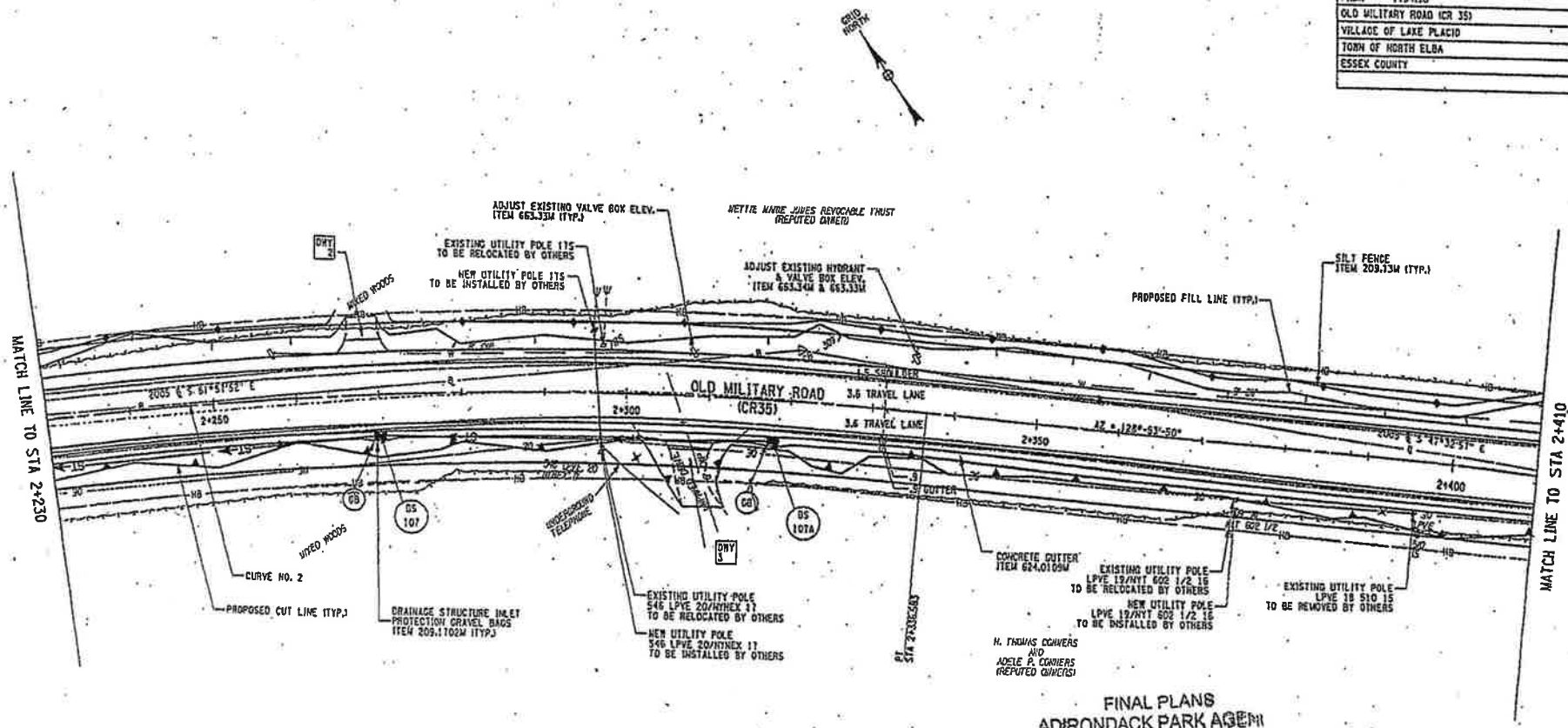
FILE NAME =
DATE/TIME =
USER =

00637

00668

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TO SH
1	N.Y.		57	1

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FINAL PLANS
ADIRONDACK PARK AGENCY
P 2010 - 161
DATE: 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 2
R = 475.000 m L = 277.717 m e = -5.0%-RT Δ = 33°-29'-56" T = 142.954 m
PC STA. 2+058.867 Ny 605510.550 Ex 188869.429
PI STA. 2+201.821 Ny 605497.100 Ex 189011.749
PT STA. 2+336.583 Ny 605407.336 Ex 189123.006

LEGEND:

- DS # = PROPOSED DRAINAGE STRUCTURE
- ◇ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY # = DRIVEWAY NUMBER
- CB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO+ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

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GENENERAL PLANS
(SHEET 4 OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

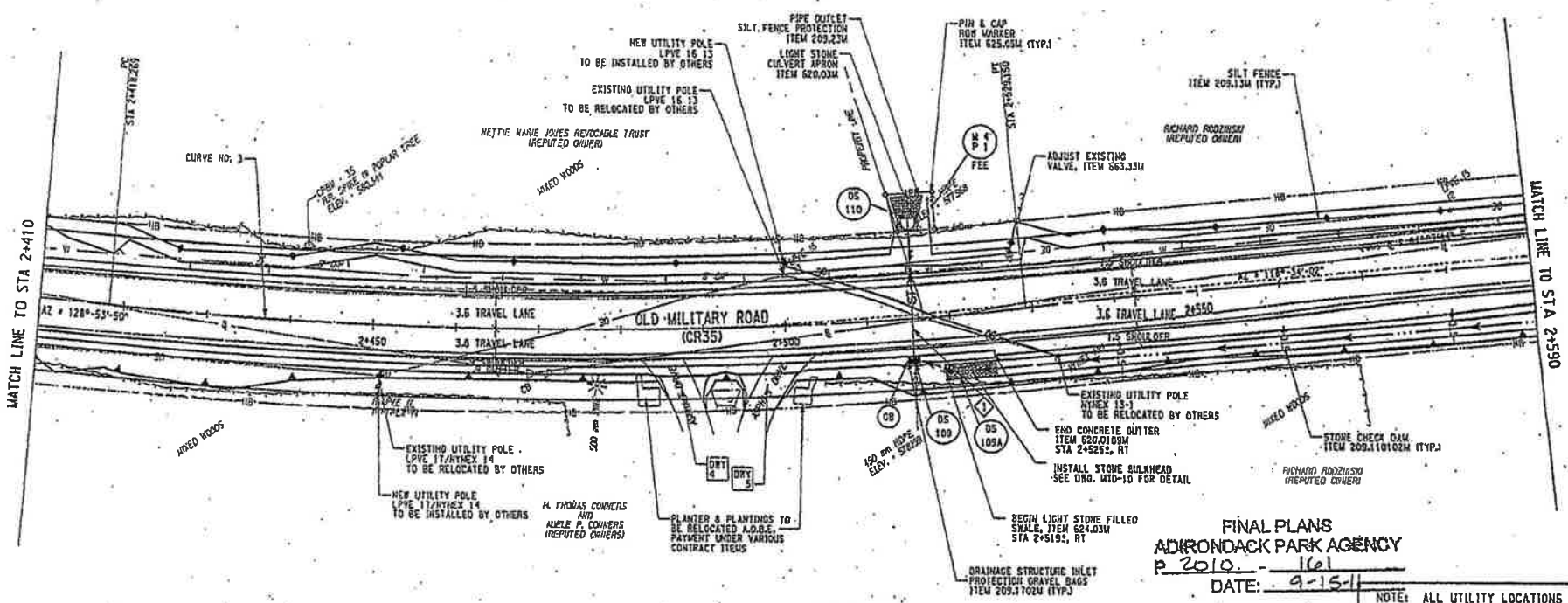
DOCUMENT NAME	REGION	DATE	DRAWING
*.cpt.gnd.04	ONE	JULY 2010	CP-4

DESIGN SUPERVISOR M. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAM ESTIMATED BY R. PARKER DRAFTED BY R. PARKER CHECKED BY D. FARNAM

FILE NAME =
DATE/TIME =
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1.	N.Y.		58	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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R = 615.000 m L = 110.881 m e = -4.2% LT Δ = 10°-19'-48" T = 55.591 m
PC STA. 2+418.269 N: 605356.043 E: 189136.580
PI STA. 2+473.860 N: 605321.136 E: 189229.845
PT STA. 2+529.150 N: 605294.553 E: 189278.668

LEGEND:

- DS # = PROPOSED DRAINAGE STRUCTURE
- ◇ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DRY # = DRIVEWAY NUMBER
- CB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STO# = STONE CHECK DAM

5 0 5 10 15 20 25 m.
SCALE

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FINAL PLANS
ADIRONDACK PARK AGENCY
P 2010 - 161
DATE: 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

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SIGNATURE DATE

GENERAL PLANS
(SHEET 5 OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 430 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cpn_gnp.05	ONE	JULY 2010	GP-5

FILE NAME =
DATE/TIME =
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY R. PARKER DRAFTED BY R. PARKER CHECKED BY D. FARNAN

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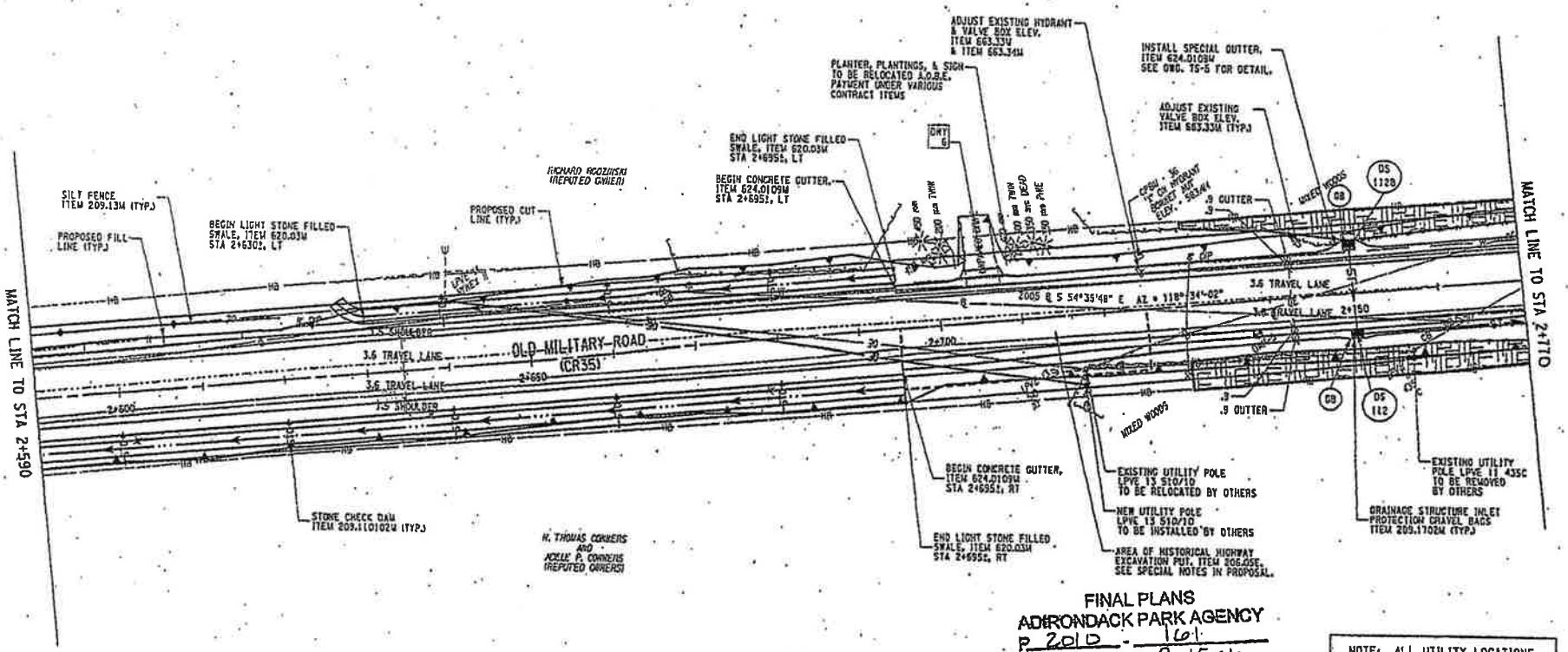
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		59	175

P.I.N. 1754.96
OLD MILITARY ROAD (CR 351
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FINAL PLANS
ADIRONDACK PARK AGENCY
P 2010 - 161
DATE: 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

LEGEND:

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- DWY # = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO— = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

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ADIRONDACK PARK AGENCY

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Hanover Square, 435 New Karner Road
Albany, New York 12205

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 6 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

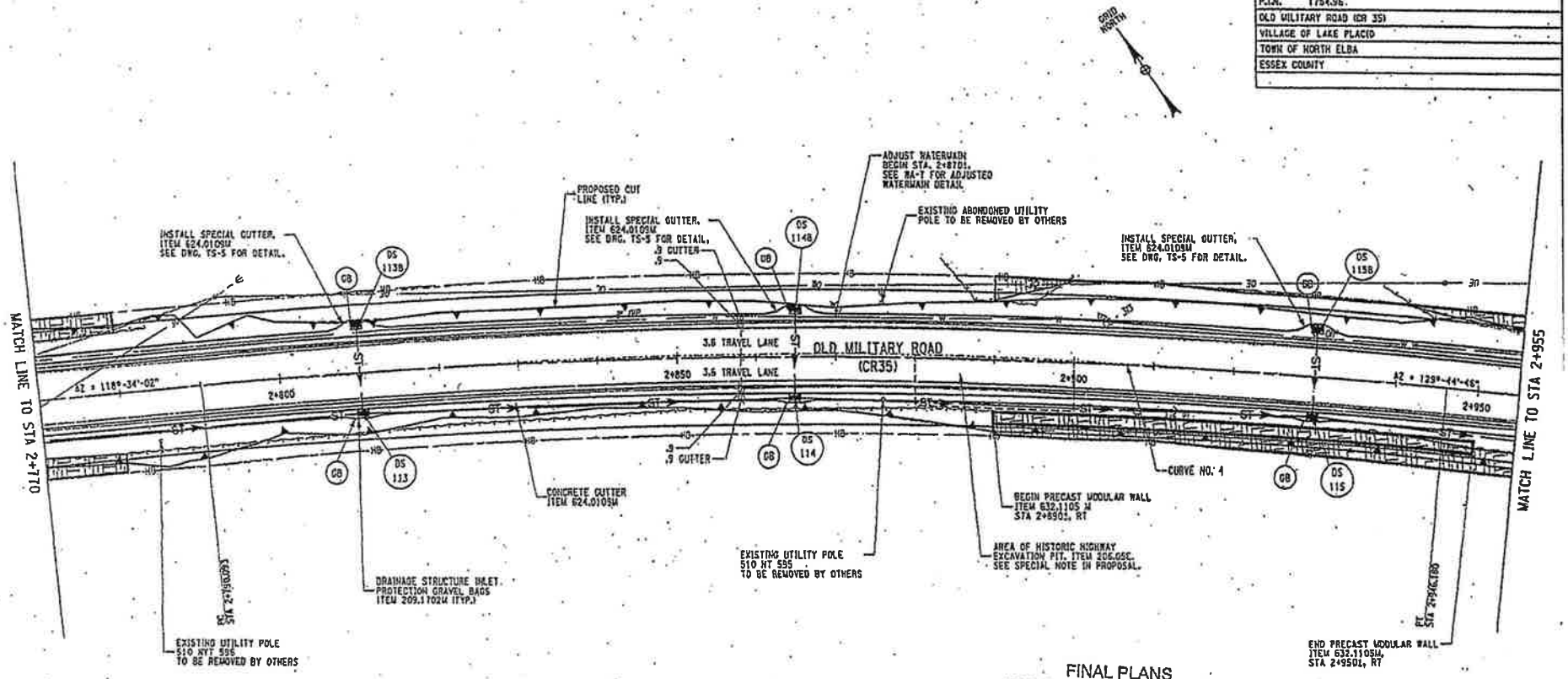
DOCUMENT NAME	REGION	DATE	DRAWING NO
*.coh.gnp.06	ONE	JULY 2010	GP-6

DESIGN SUPERVISOR K. SHAW JOB MANAGER E. BALDWIN DESIGNED BY E. BALDWIN CHECKED BY D. FARNAM ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAM

FILE NAME =
DATE/TIME =
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		60	113

P.I.N. 1754.96.
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FINAL PLANS
ADIRONDACK PARK AGENCY
P. 2010 - 161
DATE: 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 4
R = 800.000 m L = 156.087 m e = -3.4% RT Δ = 11°-10'-44" T = 78.292 m
PC STA. 2+790.093 N: 605169.713 E: 189507.844
PI STA. 2+868.385 N: 605132.334 E: 189576.604
PT STA. 2+946.180 N: 605082.276 E: 189636.802

LEGEND:

- DS # = PROPOSED DRAINAGE STRUCTURE
- # = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DRY # = DRIVEWAY NUMBER
- CB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STO = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

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MAY 27 2011
1
ADIRONDACK PARK AGENCY

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 7 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph:ore.07	ONE	JULY 2010	GP-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER B. BALDWIN DESIGNED BY B. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAN

FILE NAME = = = DATE/TIME USER

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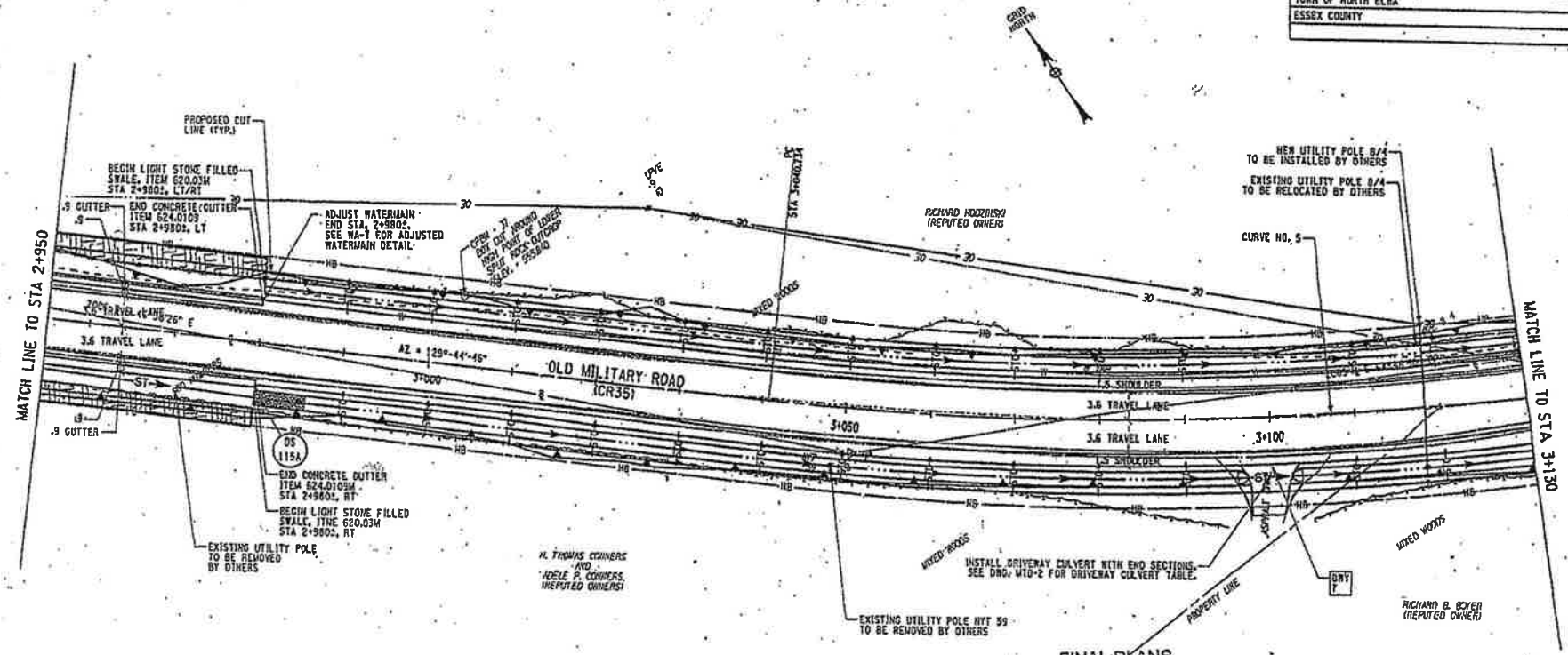
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1.	N.Y.		61	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FINAL PLANS
ADIRONDACK PARK AGENCY
P 2010 - 161
DATE: 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 5
R = 380.000 m L = 96.753 m e = -5.8% LT Δ = 14°-35'-18" T = 18.292 m
PC STA. 3+040.734 Ns 605021.819 Es 189709.503
PI STA. 3+089.373 Ns 604990.720 Es 189746.901
PT STA. 3+137.487 Ns 604970.842 Es 189790.326

LEGEND:

- DS # = PROPOSED DRAINAGE STRUCTURE
- ◇ # = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY # = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —S10→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

RECEIVED
MAY 27 2011
ADIRONDACK PARK AGENCY

Fob/Albert Associates
Architects, Engineers and Surveyors, P.C.
Hanover Square, 433 New Karner Road
Albany, New York 12205

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 8 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

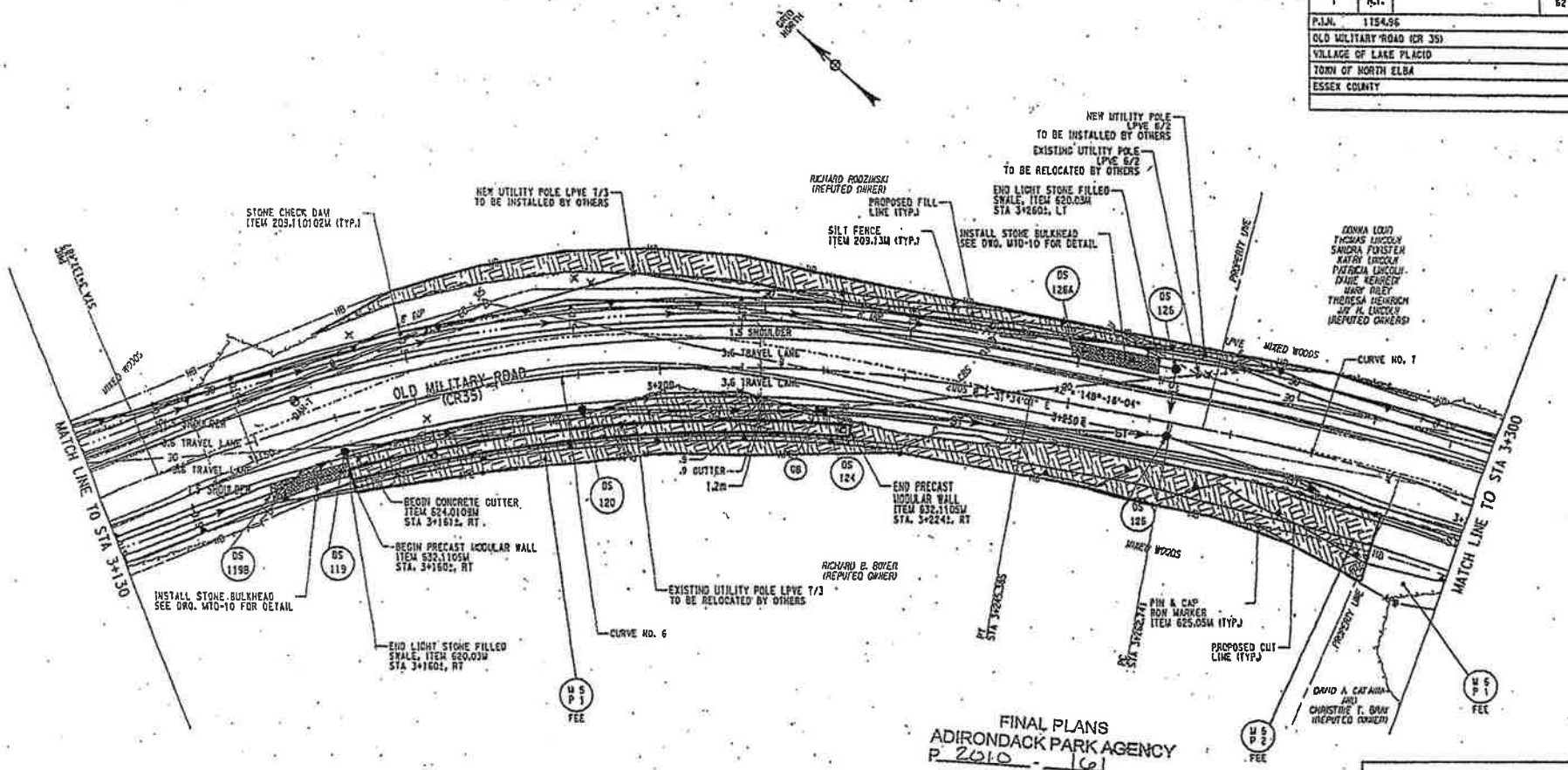
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cpt_grp_08	ONE	JULY 2010	GP-8

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAM ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAM

FILE NAME =
DATE/TIME =
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		62	173

P.I.N. 1154.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FINAL PLANS
ADIRONDACK PARK AGENCY
P 2010 - 161
DATE: 9-15-11

CURVE NO. 6	CURVE NO. 7
R = 186.526 m L = 101.398 m e = -1.9% RT Δ = 33°-58'-36" T = 55.505 m	R = 250.000 m L = 102.345 m e = -1.2% RT Δ = 23°-27'-21" T = 51.900 m
PC STA. 3+137.487 N: 604970.042 E: 189750.926	PC STA. 3+262.741 N: 604884.453 E: 189875.452
PI STA. 3+192.992 N: 604946.446 E: 189841.167	PI STA. 3+314.641 N: 604840.296 E: 189906.123
PT STA. 3+248.385 N: 604899.221 E: 189870.332	PT STA. 3+365.087 N: 604788.933 E: 189914.164

LEGEND:-

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- CB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STD→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

RECEIVED
MAY 27 2011
ADIRONDACK PARK AGENCY

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GENERAL PLANS
(SHEET 9 OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
s_csh_gen_09	ONE	JULY 2010	GP-9

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNUM ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNUM

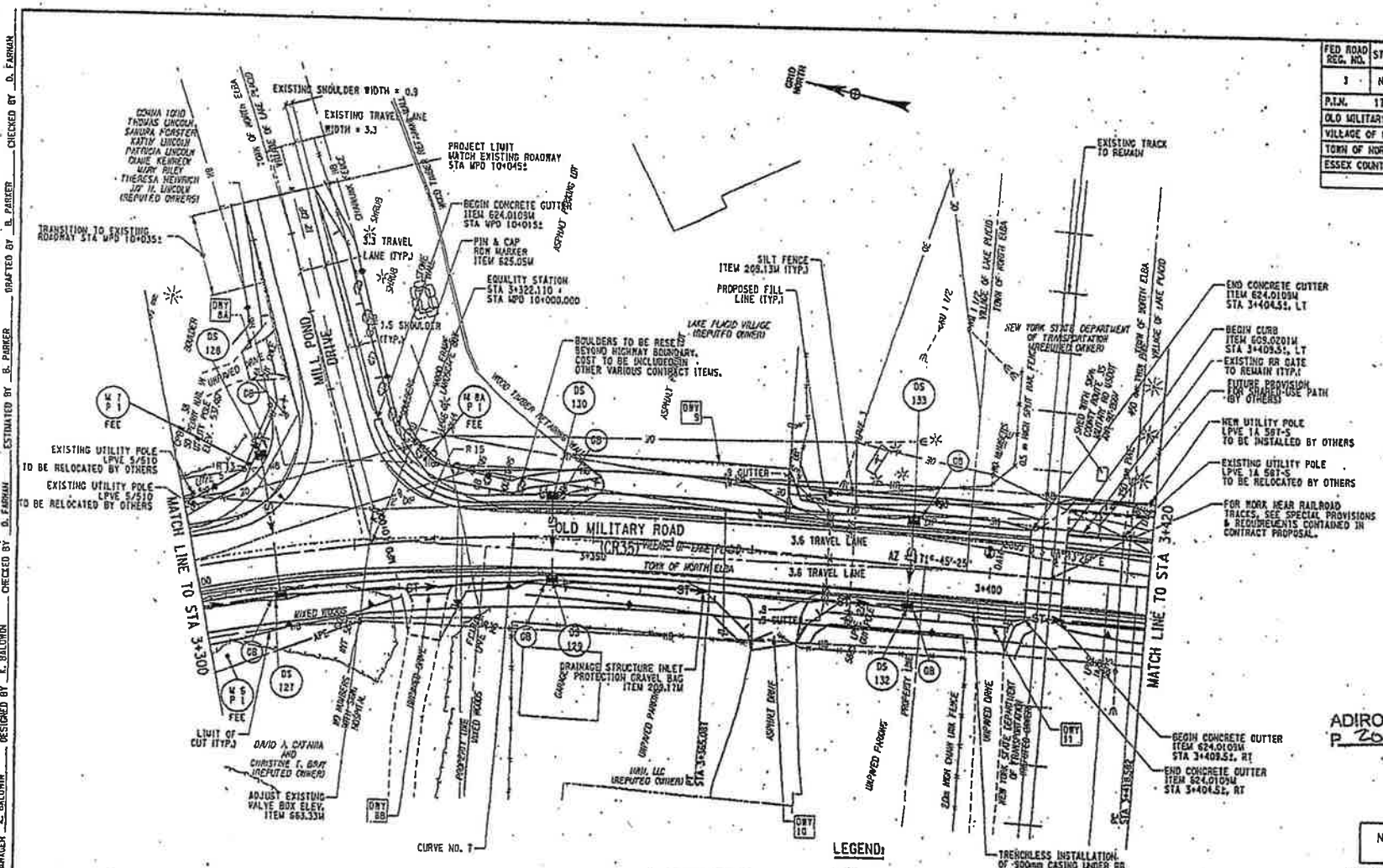
FILE NAME = DATE/TIME = USER =

00693

00694

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOT SHE
3	N.Y.		63	11

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



CURVE NO. 7
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PI STA. 3+314.641 N: 604840.296 E: 189906.723
PT STA. 3+365.087 N: 604788.933 E: 189914.164

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- ◇ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

FINAL PLANS
ADIRONDACK PARK AGENCY
P 2010 - 161
DATE: 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

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MAY 27 2011
ADIRONDACK PARK AGENCY

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Albany, New York 12205

GENERAL PLANS
(SHEET 10 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.gno.10	ONE	JULY 2010	CP-10

FILE NAME =
DATE/TIME =
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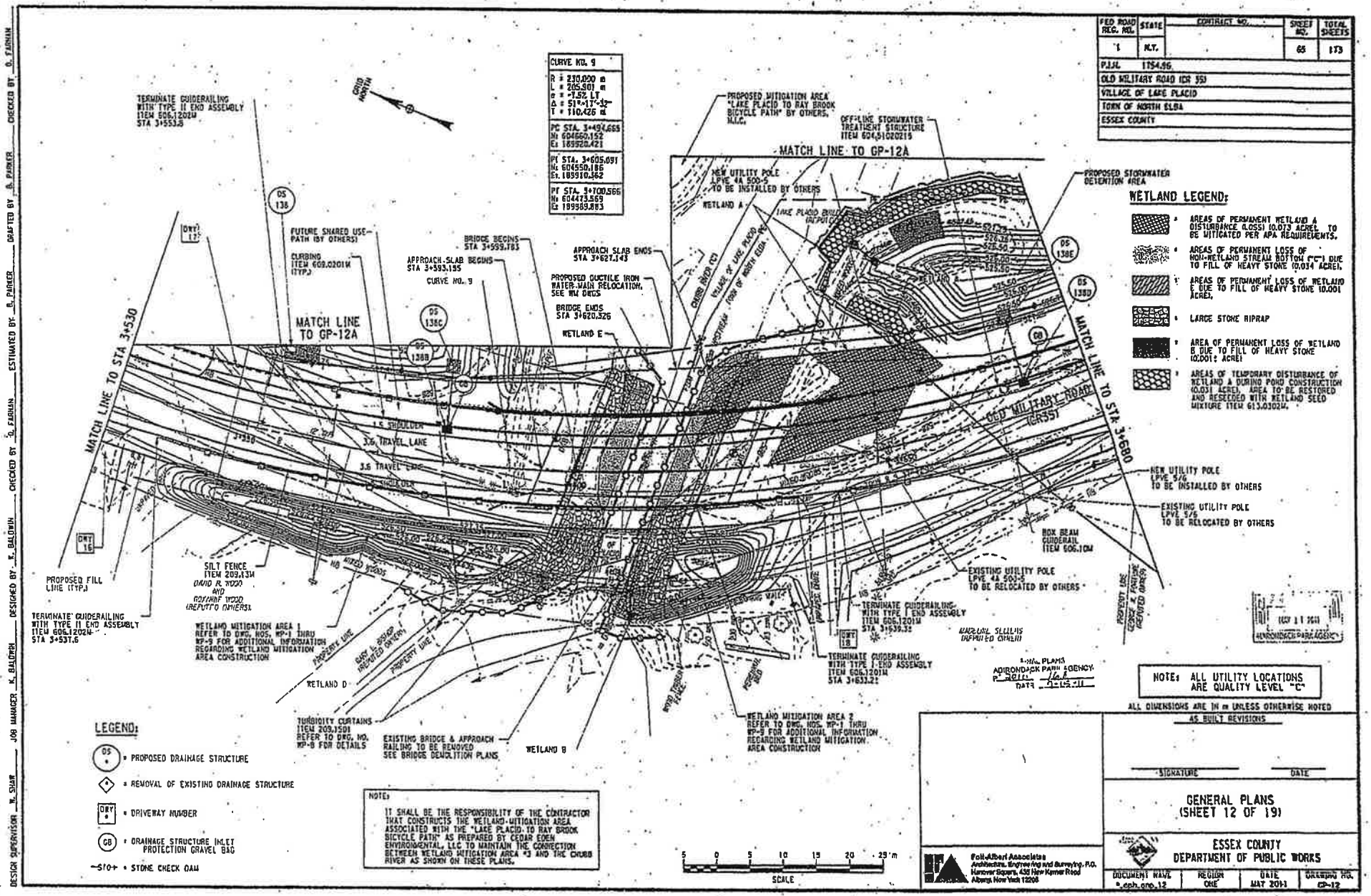
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		65	173

P.I.N. 1754.66
OLD MILITARY ROAD (CR 55)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



WETLAND LEGEND:

- AREAS OF PERMANENT WETLAND A DISTURBANCE (0.055) (0.073 ACRE) TO BE MITIGATED PER APA REQUIREMENTS.
- AREAS OF PERMANENT LOSS OF NON-WETLAND STREAM BOTTOM ("C") DUE TO FILL OF HEAVY STONE (0.034 ACRE).
- AREAS OF PERMANENT LOSS OF WETLAND E DUE TO FILL OF HEAVY STONE (0.001 ACRE).
- LARGE STONE RIPRAP
- AREA OF PERMANENT LOSS OF WETLAND B DUE TO FILL OF HEAVY STONE (0.001± ACRE)
- AREAS OF TEMPORARY DISTURBANCE OF WETLAND A DURING POND CONSTRUCTION (0.031 ACRE). AREA TO BE RESTORED AND RESEEDED WITH WETLAND SEED MIXTURE ITEM 613.03021M.

LEGEND:

- OS ◦ = PROPOSED DRAINAGE STRUCTURE
- ◇ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY ◦ = DRIVEWAY NUMBER
- CB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- ~S10+ = STONE CHECK DAM

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS (SHEET 12 OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 438 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
e_esh_gnp_12	ONE	MAY 2011	GP-12

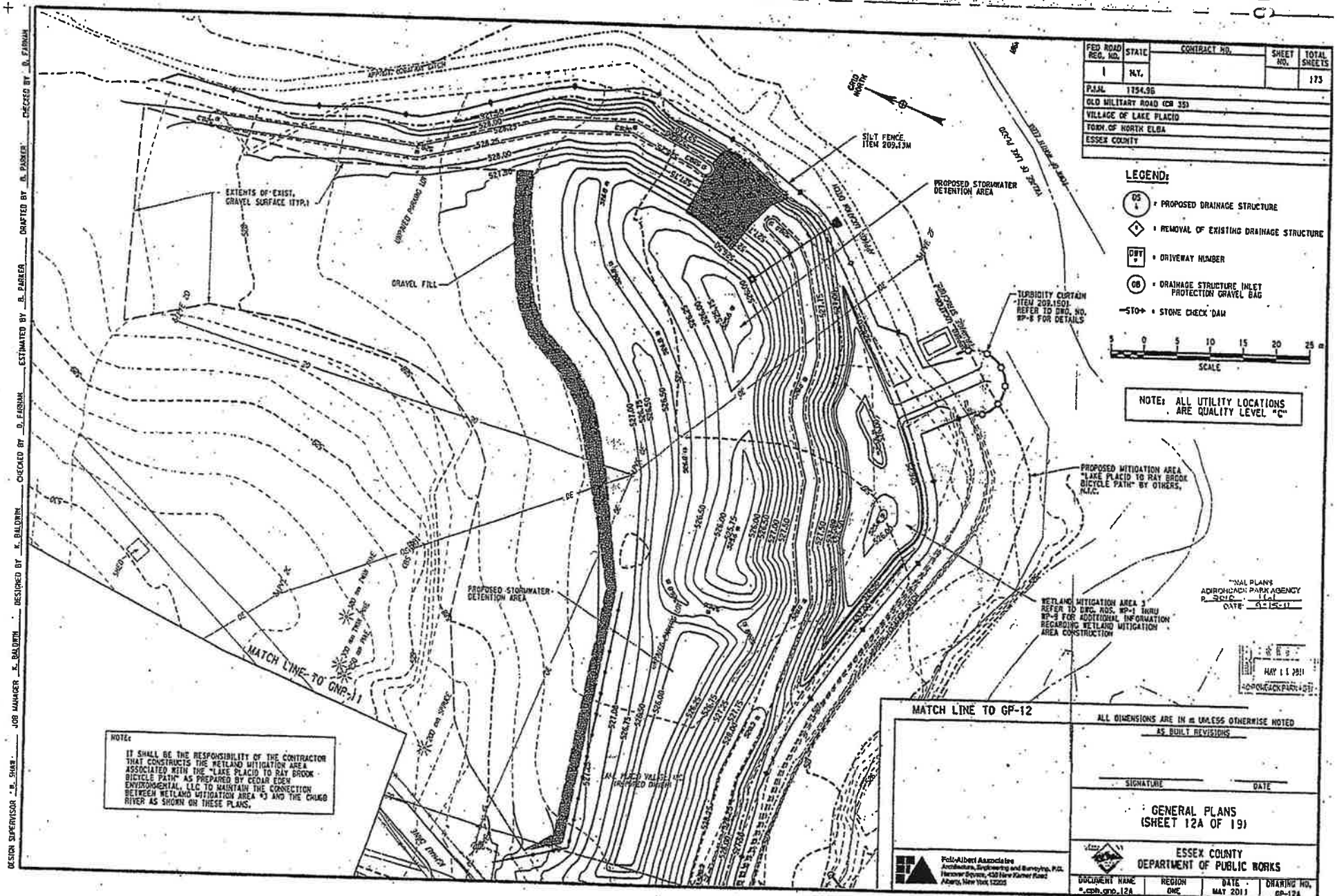
DESIGN SUPERVISOR R. SHARP — JOB MANAGER K. BALDWIN — DESIGNED BY K. BALDWIN — CHECKED BY D. FARNAN — ESTIMATED BY B. PARKER — DRAFTED BY B. PARKER — CHECKED BY D. FARNAN

FILE NAME
DATE/TIME
USER

00695

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUGG RIVER AS SHOWN ON THESE PLANS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 12A OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 430 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cpb.gno.12A	ONE	MAY 2011	GP-12A

DESIGN SUPERVISOR R. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAM ESTIMATED BY D. PARKER DRAFTED BY D. PARKER CHECKED BY D. FARNAM

FILE NAME
DATE/TIME
USER

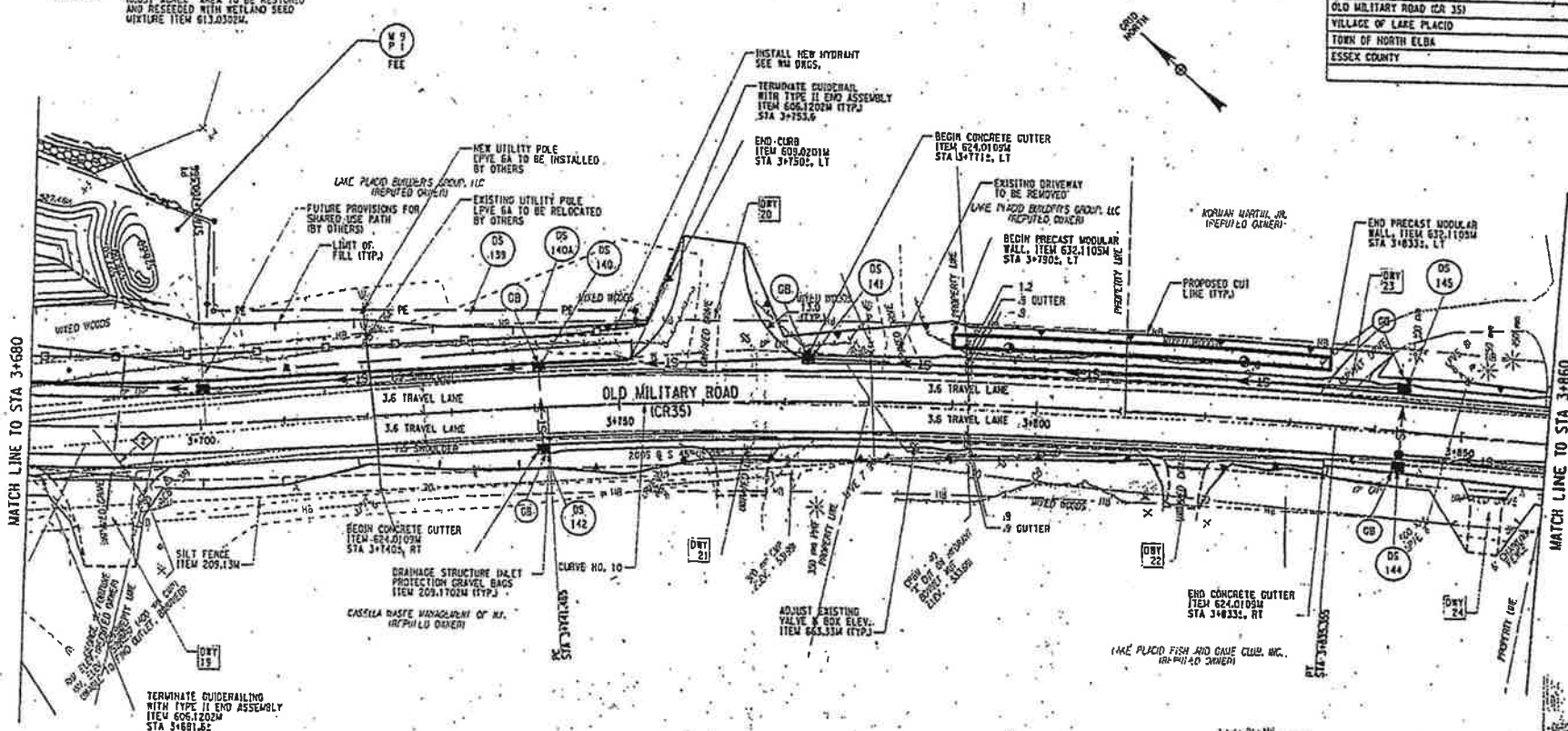
00600

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		60	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

WETLAND LEGEND:

AREAS OF TEMPORARY DISTURBANCE OF WETLAND A DURING POND CONSTRUCTION (0.03) ACRE. AREA TO BE RESTORED AND RESEEDED WITH WETLAND SEED MIXTURE ITEM 613.0302M.



CURVE NO. 10
R = 700.000 m L = 93.870 m e = -3.8% RT Δ = 07°-41'-00" T = 47.005 m
PC STA. 3+741.485 N: 604445.178 E: 190019.351
PI STA. 3+788.491 N: 604412.564 E: 190053.201
PT STA. 3+835.355 N: 604375.717 E: 190082.387

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- ◇ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STO = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 13 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Fort-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 455 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.gnp.13	ONE	MAY 2011	GP-13

FILE NAME =
DATE/TIME =
USER =

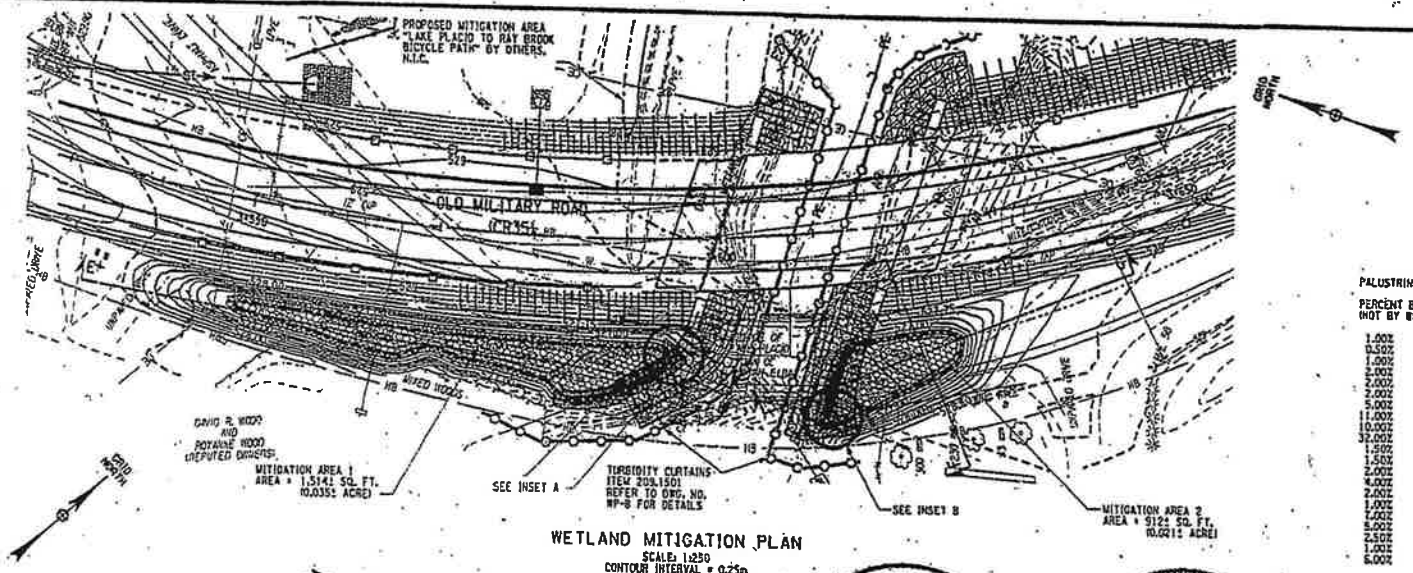
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAN

00697

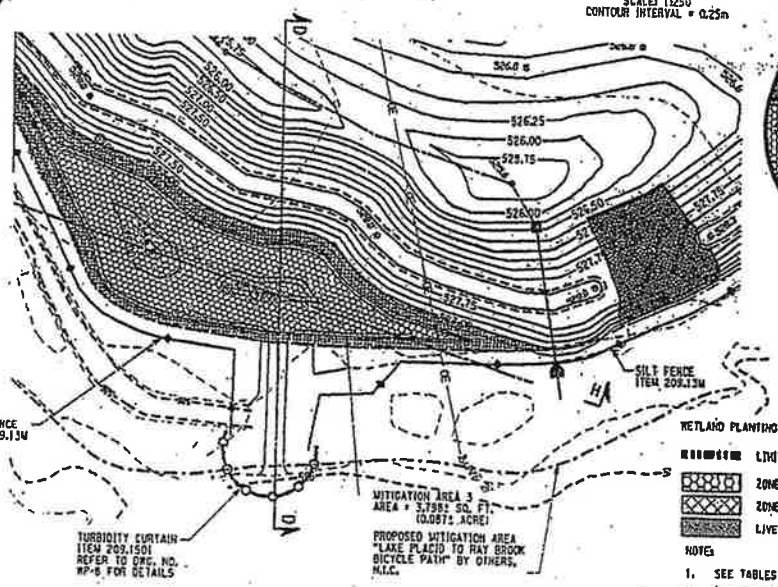
00638

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		46	173

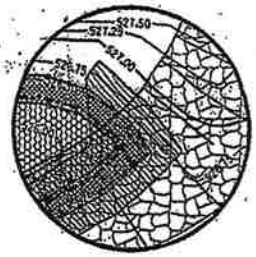
P.I.N. 1754.96
OLD MILITARY ROAD (CR 351)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



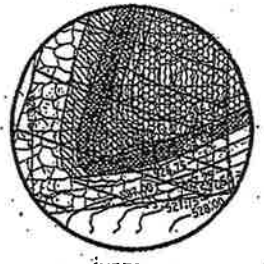
WETLAND MITIGATION PLAN
SCALE: 1:250
CONTOUR INTERVAL = 0.25m



WETLAND MITIGATION PLAN
SCALE: 1:250
CONTOUR INTERVAL = 0.25m



INSET A
SCALE: 1:75
CONTOUR INTERVAL = 0.25m



INSET B
SCALE: 1:75
CONTOUR INTERVAL = 0.25m

OVERALL MITIGATION AREA = 6,224± SQ. FT. (0.143± ACRE)

WETLAND PLANTING LEGEND

- LIMITS OF MITIGATION AREA
- ZONE 1 - LOWLAND AREA 610mm - 1.220m DEEP (ELEV 525.63 - 526.24)
- ZONE 2 - UPLAND AREA 0.0m - 0.610m DEEP (ELEV. 526.24 - 526.24)
- LIVE CUTTING/ LIVE STAKE JOINT PLANTING AREA

NOTES:

1. SEE TABLES 1 AND 2, THIS SHEET, FOR AREAS OF WETLAND SEEDING.
2. SEE DRAWING NO. WP-2 FOR CONSTRUCTION, PLANTING AND MAINTENANCE NOTES.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.

TABLE 2 - ZONE 1

PALUSTRINE EVERGREEN SEED MIX (PEM)

PERCENT BY NUMBER OF SEEDS (NOT BY WEIGHT)

1.00%	ALISMA PLANTAGO-AQUATICA	WAO PLANTAIN
0.50%	ASCLEPIAS INCARNATA	SWAMP MILKWEED
1.00%	ASTER NOVI-BELGII	NEW YORK ASTER
2.00%	BIDENS CERNUA	NODDING BUR MARIGOLD
2.00%	CAREX COMOSA	BRISTLY COSMOS SEDGE
2.00%	CAREX CRINITA	FRINGED SEDGE (NODDING)
5.00%	CAREX LUPULINA	HOP SEDGE
11.00%	CAREX LURIDA	LURID SEDGE (SHALLOW)
10.00%	CAREX SCOPARIA	BLUNT BROOM SEDGE
32.00%	CAREX VULPINOIDEA	FOX SEDGE
1.50%	EUPATORIUM MACULATUM	SPOTTED JOE PYE WEED
1.50%	EUPATORIUM PERFOLIATUM	BONESET
2.00%	GLYCERIA CANADENSIS	RATTLESNAKE GRASS
4.00%	GLYCERIA STRIATA	FOWL MANNAGRASS
2.00%	JUNCUS EFFUSUS	SOFT RUSH
1.00%	MIMULUS RINGENS	SQUARE STEMMED MONKEY FLOWER
7.00%	ONOCLEA SENSIBILIS	SENSITIVE FERN
5.00%	SCIRPUS ATROVIRENS	GREEN BULRUSH
2.50%	SCIRPUS CYPERINUS	WOOL GRASS
1.00%	SCIRPUS VALIDUS	SOFT STEM BULRUSH
6.00%	VERBENA HASTATA	BLUE VERVAIN

TABLE 1 - ZONE 2

NORTHEAST UPLAND WILDFLOWER/RESTORATION (NURREM) EROSION MIX

PERCENT BY NUMBER OF SEEDS GRASS PORTION 42 POUNDS (NOT BY WEIGHT)

60.8%	AGROSTIS ALBA	REDTOP
27.5%	FESTUCA RUBRA	RED FESCUE
11.7%	LOLIUM MULTIFLORUM	ANNUAL RYEGRASS

NUMBER OF SEEDS LEGUME PORTION (NOT BY WEIGHT) 4 POUNDS

100% LOTUS CORNICULATUS BIRDS-FOOT TREFOIL

NUMBER OF SEEDS WILDFLOWER PORTION 1 POUND

41.9%	ACHILLEA MILLEFOLIUM	COMMON YARROW
24.1%	RUDBECKIA HIRTA	BLACK-EYED SUSAN
9.8%	CHRYSANTHEMUM LEUCANTHEM	OX-EYE DAISY
8.6%	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER
6.5%	LOBELIA CARDINALIS	CARDINAL FLOWER
5.8%	DAUCUS CAROTA	QUEEN ANNE'S LACE
3.3%	POLYGONUM PENSYLVANICUM	PENNSYLVANIA SMARTWEED

FINAL PLANTING
ADIRONDACK PARK AGENCY
P. SOLDO 1/4/
DATE: 9/15/11

SCALE: 5 0 5 10 15 20 25 m

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WETLAND MITIGATION AREA (SHEET 1 OF 10)

Pott-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 430 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
9_cph_env_01	ONE	MAY 2011	WP-1

DESIGN SUPERVISOR R. SHAW JOB MANAGER R. BALDWIN DESIGNED BY R. BALDWIN CHECKED BY D. FARNHAM ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNHAM

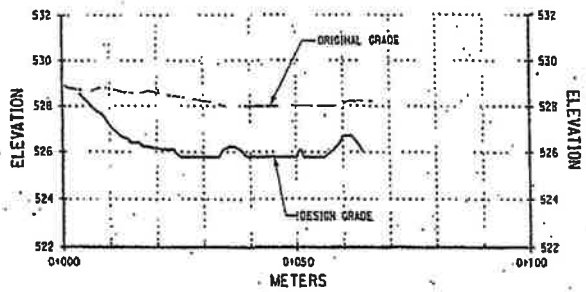
FILE NAME = DATE/TIME = USER =

00699

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		46	173

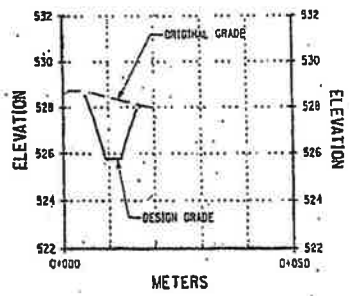
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

MITIGATION AREA 1
SECTION E-E



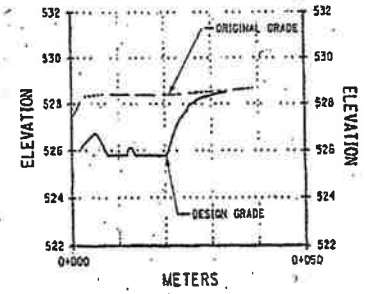
MITIGATION AREA 1
SCALE: HORIZ: 1:500
VERT: 1:100

MITIGATION AREA 2
SECTION F-F



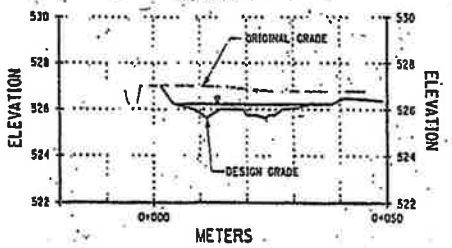
MITIGATION AREA 2
SCALE: HORIZ: 1:500
VERT: 1:100

MITIGATION AREA 2
SECTION G-G



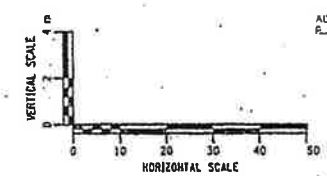
MITIGATION AREA 2
SCALE: HORIZ: 1:500
VERT: 1:100

MITIGATION AREA 3
SECTION H-H



MITIGATION AREA 3
SCALE: HORIZ: 1:500
VERT: 1:100

SEE SECTION D-D, DWG. NO. WP-5 FOR ADDITIONAL MITIGATION AREA 3 GRADE INFORMATION



NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

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SIGNATURE DATE

WETLAND MITIGATION AREA
PROFILES
(SHEET 2 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.env.01A	ONE	MAY 2011	WP-1A

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAN

FILE NAME =
DATE/TIME =
USER =

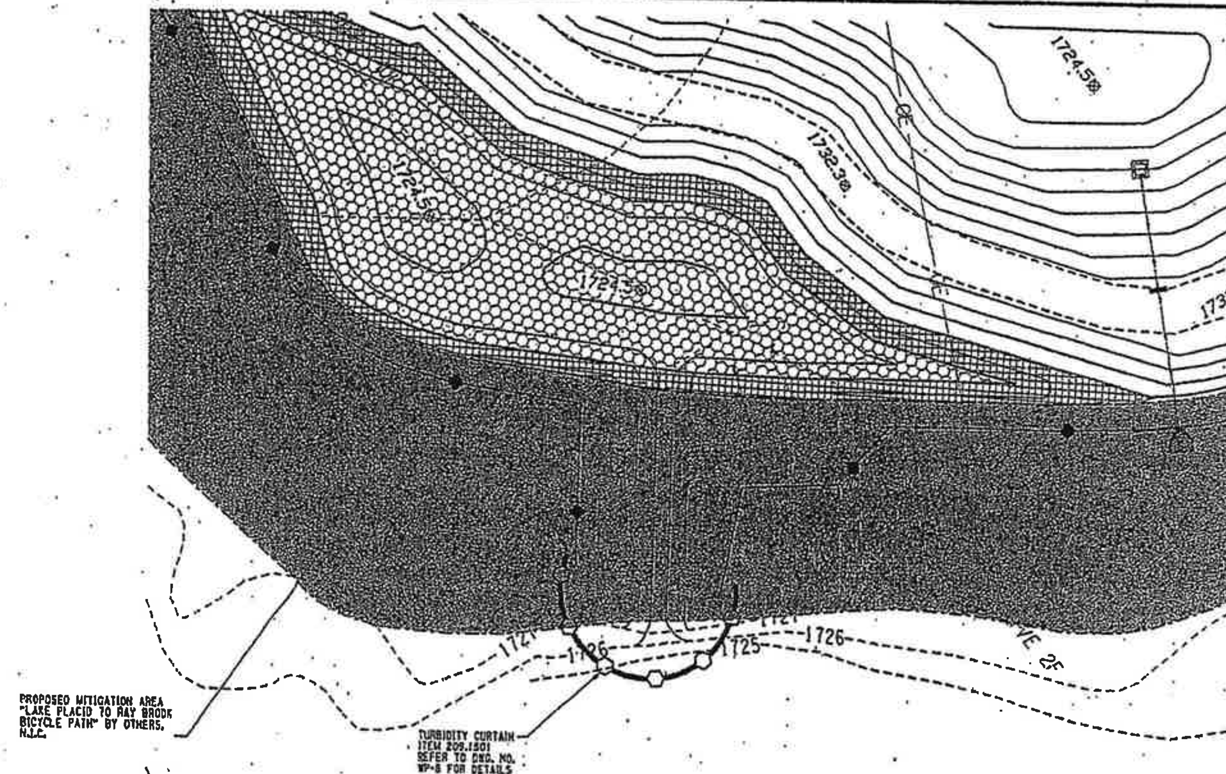
00700

FILE NAME =
DATE/TIME =
USER =

DESIGN SUPERVISOR W. SHAW | JOB MANAGER K. BALDWIN | DESIGNED BY K. BALDWIN | CHECKED BY D. FARNAN | ESTIMATED BY B. PARKER | DRAFTED BY B. PARKER | CHECKED BY D. FARNAN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		46	173

P.I.N. 1754.55
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



WETLAND 3 CONNECTION TO CHUBB RIVER PLAN
SCALE: 1 IN = 20 FT
CONTOUR INTERVAL = 1 FT

WETLAND PLANTING LEGEND

LIMITS OF MITIGATION AREA
ZONE 1 - LOWLAND AREA 2 FT - 4 FT DEEP (ELEV 1725.0 - 1726.5)
ZONE 2 - UPLAND AREA 0 FT - 2 FT DEEP (ELEV. 1724.5 - 1726.5)

NOTE:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.

FINAL PLANS
ADIRONDACK PARK AGENCY
P 2010 - 161
DATE 9-15-11

20 0 FT 20 40
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

AS BUILT REVISIONS

SIGNATURE DATE

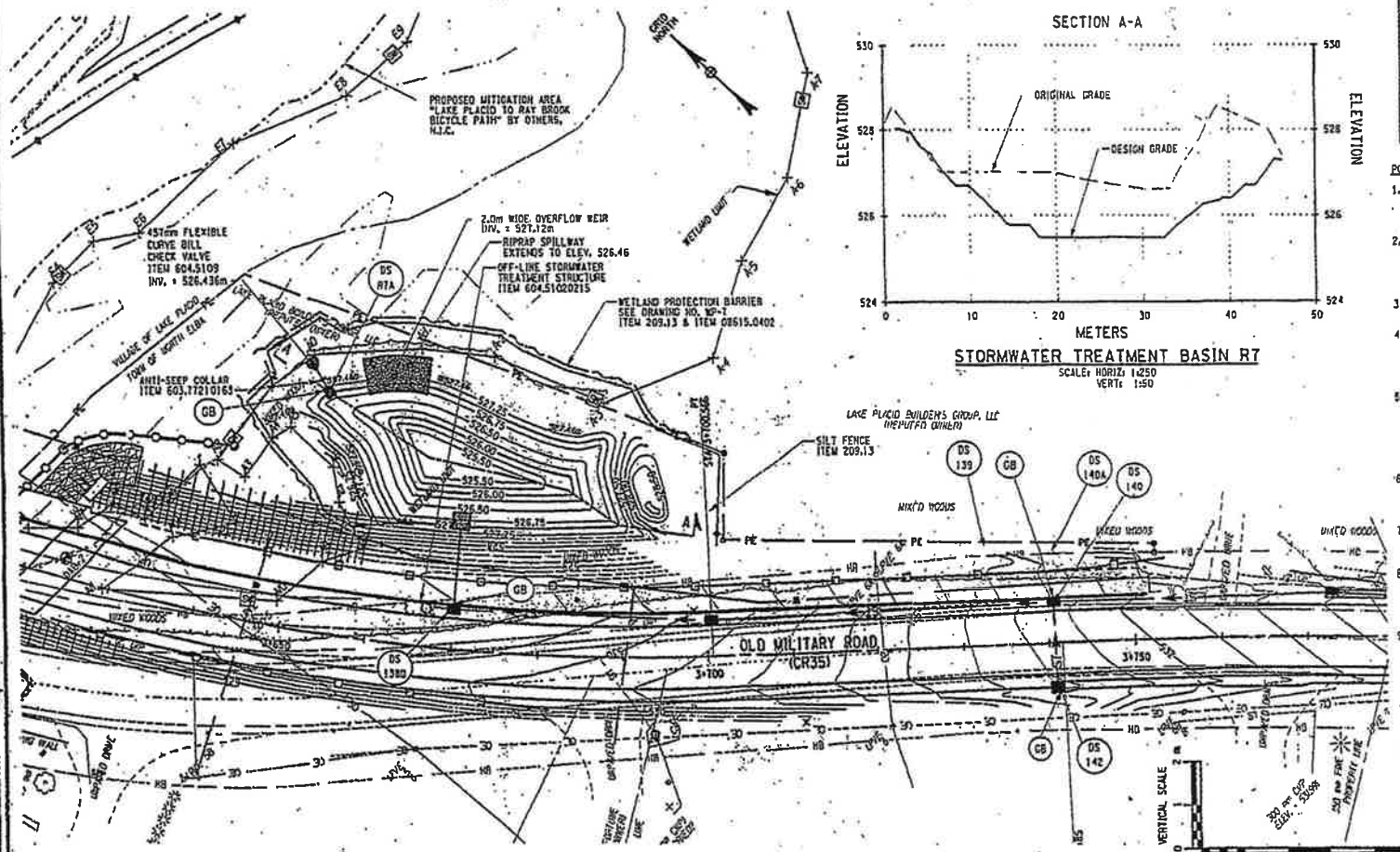
WETLAND MITIGATION PLAN
DETAIL

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env.ADD	ONE	MAY 2011	WP-A001

00701



STORMWATER TREATMENT BASIN R7

SCALE: HORIZ: 1:250
VERT: 1:50

STORMWATER TREATMENT BASIN R7

SCALE: 1:250
CONTOUR INTERVAL = 0.25m

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STO = STONE CHECK DAM
- WETLAND PROTECTION BARRIER ZONE
- TEMPORARY SILTATION CONTROL FENCE

NOTE:

1. SEE DRAWING NOS. WP-6 AND WP-7 FOR POND-RELATED DRAINAGE STRUCTURE DETAILS.

FINAL PLANS
ADIRONDACK PARK AGENCY
R. 2010 1/4
DATE: 9/14/11

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		48	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

POND CONSTRUCTION & MAINTENANCE NOTES:

1. AREAS UNDER EMBANKMENT AND HIGH WATER ELEVATION SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL. ALL OBJECTIONABLE MATERIAL TO BE REMOVED.
2. A CUTOFF TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF EARTH FILL EMBANKMENTS. TRENCH TO BE A MINIMUM 1.2m WIDE AND 0.6m DEEP AND DEWATERED DURING BACKFILLING/COMPACTION OPERATIONS.
3. EMBANKMENT FILL MATERIAL FOR THE POND SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
4. OUTLET STRUCTURE SHALL BE PLACED AS SHOWN ON DRAWING WP-6. FILL MATERIAL AROUND BARREL SHALL BE COMPACTED UNDER AND AROUND THE PIPE TO THE SAME DENSITY AS THE EMBANKMENT. ALL JOINTS TO BE WATERTIGHT.
5. EMERGENCY SPILLWAY SHALL BE INSTALLED IN UNDISTURBED GROUND. IF SPILLWAY IS TO BE CONSTRUCTED IN DISTURBED SOIL, IT IS TO BE LINED WITH FILTER CLOTH, JUTE MAT OR APPROVED EQUAL. LINER TO BE PINNED AND STRETCHED PAST THE SPILLWAY TO A SUFFICIENT LENGTH TO ELIMINATE UNDERPINNING.
6. STABILIZE EMBANKMENT AND EMERGENCY SPILLWAY PER THE PLANTING SPECIFICATIONS IN THESE PLANS. EMBANKMENT TO BE SEEDED WITHIN 7 DAYS OF OBTAINING FINAL GRADE.
7. ALL DAMAGES CAUSED BY SOIL EROSION AND CONSTRUCTION EQUIPMENT TO THE EMBANKMENT SHALL BE REPAIRED BEFORE THE END OF EACH WORKING DAY.
8. TEMPORARY SEDIMENT BASIN DEWATERING DEVICE AND POND BOTTOM SHALL HAVE SEDIMENT REMOVED WHEN THE SEDIMENT DEPTH EQUALS HALF THE HEIGHT OF THE OUTLET STRUCTURE. SEDIMENT TO BE DISPOSED OF IN ACCORDANCE WITH THE SWPPP.
9. TEMPORARY STRUCTURES TO BE REMOVED AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED. THE RESULTING SEDIMENT DEPOSITS TO BE REMOVED AND/OR LEVELED TO OBTAIN THE DESIGN POND VOLUME. ANY DISTURBED AREA WITHIN THE POND TO BE SEEDED IMMEDIATELY AFTER FINAL GRADING.
10. OWNER IS RESPONSIBLE FOR POND MAINTENANCE AFTER FINAL CONSTRUCTION SEQUENCES ARE COMPLETED IN ACCORDANCE WITH THE SWPPP.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

Fall-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hacomer Square, 437 Pennsylvania Road
Albany, New York 12206

STORMWATER QUALITY
(SHEET 4 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

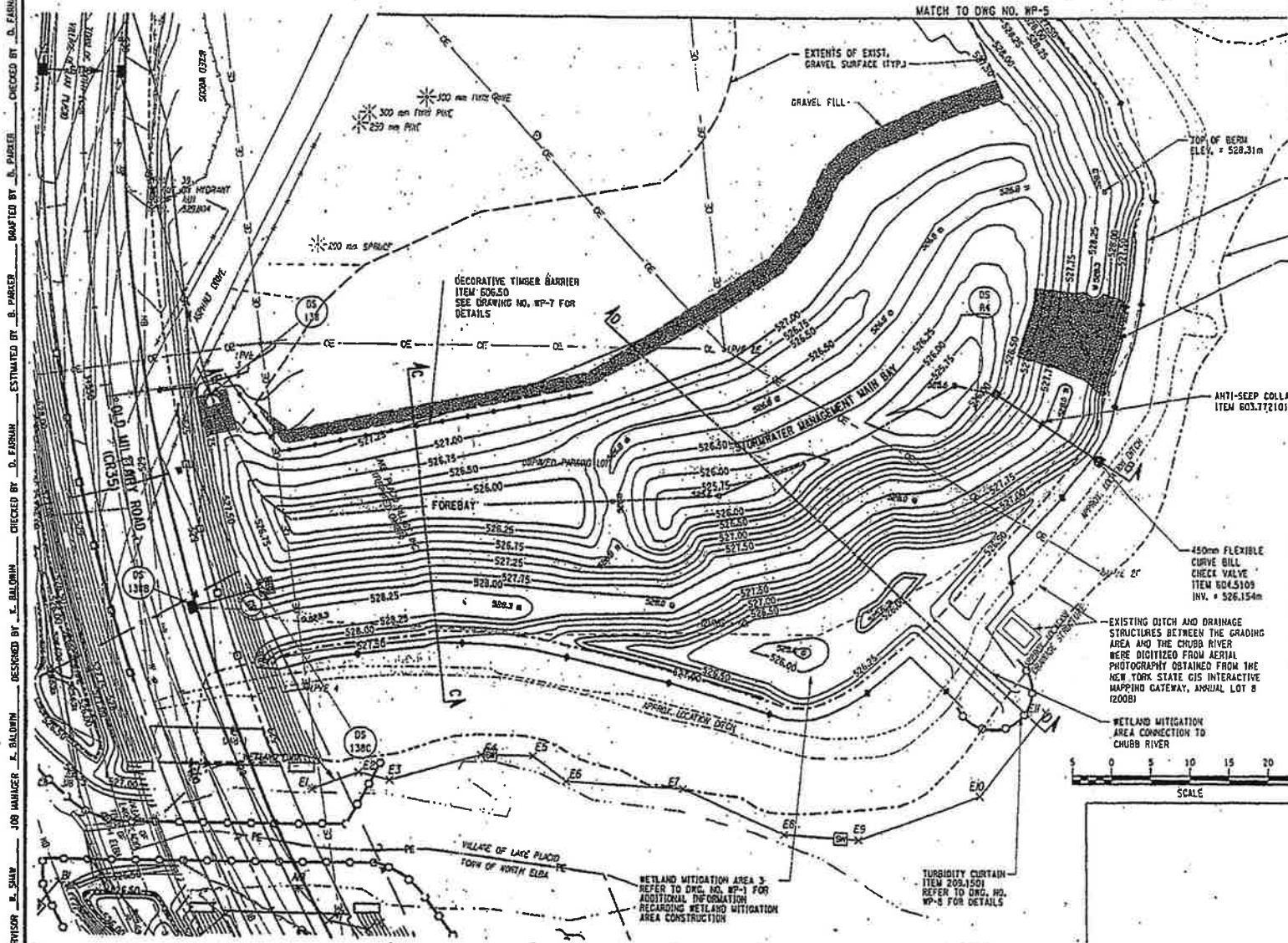
DOCUMENT NAME	REGION	DATE	DRAWING NO.
a_cph_any_03	ONE	MAY 2011	WP-3

DESIGN SUPERVISOR R. SHAW — JOB MANAGER E. BALDWIN — DESIGNED BY E. BALDWIN — CHECKED BY D. FARNUM — ESTIMATED BY R. PARKER — DRAFTED BY R. PARKER — CHECKED BY D. FARNUM

FILE NAME = DATE/TIME = USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		49	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM
- = WETLAND PROTECTION BARRIER ZONE
- = TEMPORARY SILTATION CONTROL FENCE
- = SWALE

NOTE:

1. SEE DRAWING NO. WP-3 FOR POND CONSTRICTION AND MAINTENANCE NOTES.
2. SEE DRAWING NO. WP-5 FOR POND R4 SECTION B-B.
3. SEE DRAWING NOS. WP-6 AND WP-7 FOR POND-RELATED DRAINAGE STRUCTURE DETAILS.
4. CONTOURS OF NORTHEAST PORTION OF POND BASED ON MAPPING DONE BY EDEN ENVIRONMENTAL, LLC.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

STORMWATER TREATMENT BASIN R4

SCALE: 1:250
CONTOUR INTERVAL = 0.25m

FINAL PLANS
ADIRONDACK PARK AGENCY
APPROVED 5-13-11

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 436 New Karner Road
Albany, New York 12205

STORMWATER QUALITY
(SHEET 5 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env_04	ONE	MAY 2011	WP-4

DESIGN SUPERVISOR R. SHAW | JOB MANAGER K. BALDWIN | DESIGNED BY K. BALDWIN | CHECKED BY D. FARNUM | ESTIMATED BY B. PARKER | DRAFTED BY B. PARKER | CHECKED BY D. FARNUM

FILE NAME
DATE/TIME
USER

00702

00703

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		50	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STD = STONE CHECK DAM
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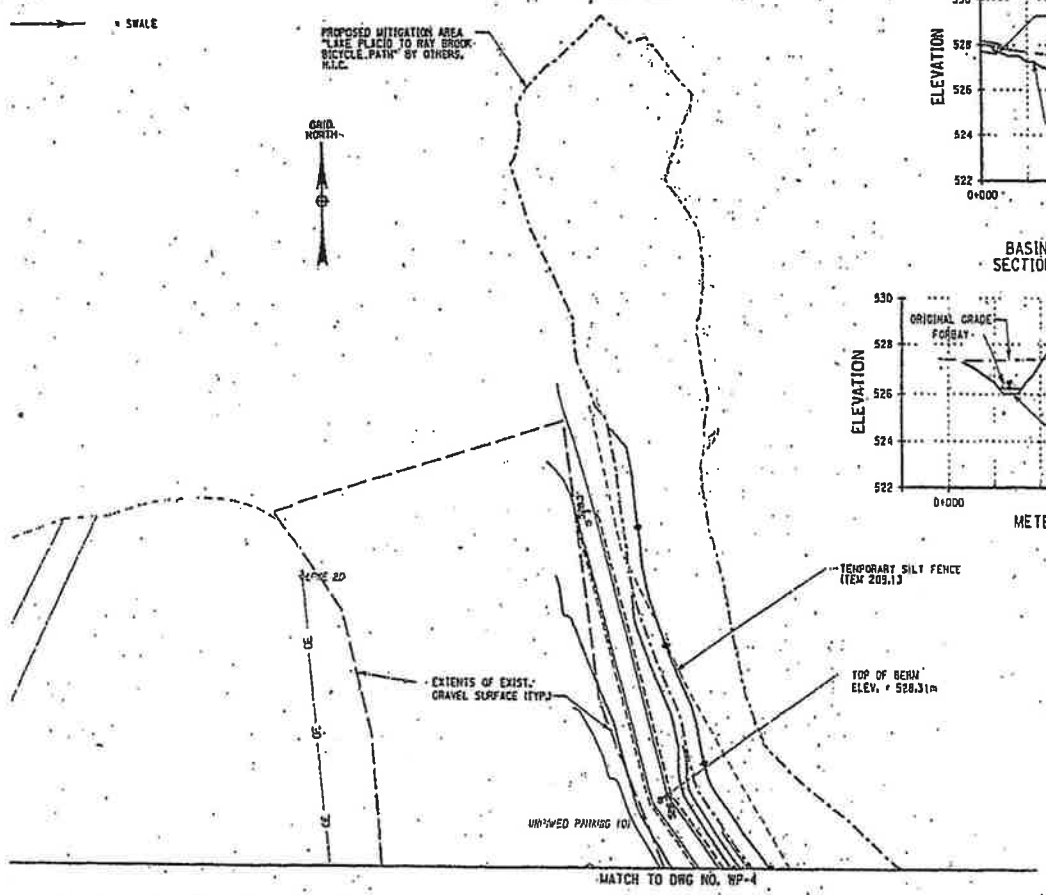
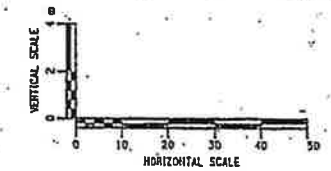
- = SWALE

NOTE:

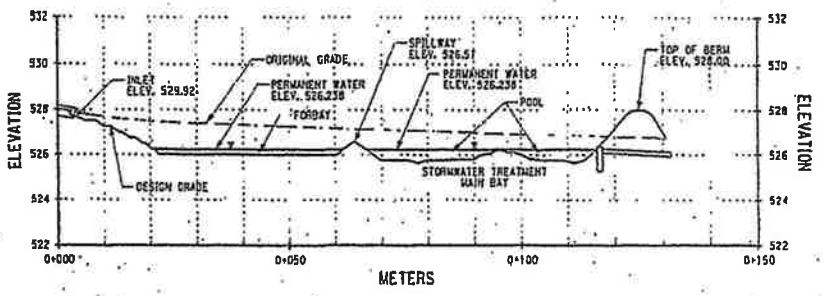
1. SEE DRAWING NO. WP-3 FOR POND CONSTRICTION AND MAINTENANCE NOTES.
2. SEE DRAWING NOS. WP-6 AND WP-7 FOR POND-RELATED DRAINAGE STRUCTURE DETAILS.
3. CONTOURS OF NORTHEAST PORTION OF POND BASED ON MAPPING DONE BY EDEN ENVIRONMENTAL, LLC.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.



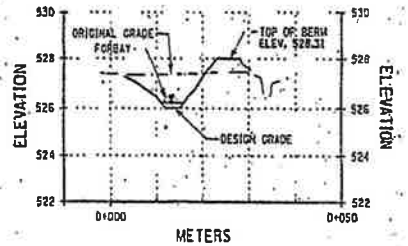
STORMWATER TREATMENT BASIN R4
SCALE: 1:250
CONTOUR INTERVAL = 0.25m



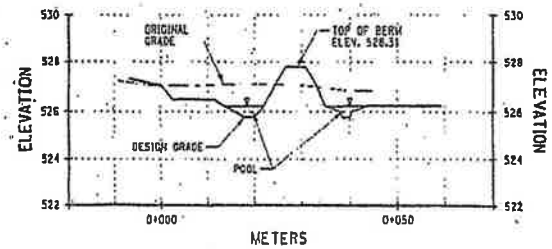
BASIN R4
SECTION B-B



BASIN R4
SECTION C-C



BASIN R4
SECTION D-D



STORMWATER TREATMENT BASIN R4
SCALE: HORIZ: 1:500
VERT: 1:100

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

STORMWATER QUALITY
(SHEET 6 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
4_cph_env_05	ONE	MAY 2011	WP-5

Fort-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 436 New Karner Road
Albany, New York 12205

FINAL PLANS
ADIRONDACK PARK AGENCY
9-15-11

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAM ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAM

FILE NAME = DATE/TIME = USER =

00704

FILE NAME = DATE/TIME = USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAN

EXCAVATION IN WETLAND CREATION AREAS

1. WETLAND DISTURBANCE - THE CONTRACTOR WILL CONSTRUCT THE NEW, REALIGNED PORTION OF OLD MILITARY ROAD IN THE VICINITY OF THE BRIDGE OVER THE CHUBB RIVER PRIOR TO THE CONSTRUCTION OF THE WETLAND MITIGATION AREA. DURING THE CONSTRUCTION OF THE NEW ROAD ALIGNMENT, THE CONTRACTOR WILL REMOVE AND STOCKPILE THE SOILS IN THE AREA IDENTIFIED AS WETLAND A IN ACCORDANCE WITH ITEM 613.0301 - WETLAND TOPSOIL.

2. STREAM DISTURBANCE - THE AREAS AROUND THE EXISTING BRIDGE OVER THE CHUBB RIVER WILL BE EXCAVATED TO ALLOW FOR THE CONSTRUCTION OF THE NEW BRIDGE. THE MATERIALS DISTURBED AND/OR EXCAVATED IN THIS AREA OF THE PROJECT SHALL BE DONE SO IN ACCORDANCE WITH ITEM 613.0401 - STOCKPILING AND PLACING STREAMBED MATERIALS.

3. WETLAND MITIGATION AREA CONSTRUCTION - THE AREA ALONG THE NEW ROADWAY AT THE NORTHEAST QUADRANT OF THE NEW BRIDGE OVER THE CHUBB RIVER WHERE MITIGATION WILL TAKE PLACE WILL BE DONE IN ACCORDANCE WITH ITEM 613.0302 - WETLAND MITIGATION. THE MITIGATION AREA CONSTRUCTION WILL NOT BEGIN UNTIL THE CONSTRUCTION OF THE NEW PORTION OF ROADWAY HAS BEEN COMPLETED. THE AREA OF THE WETLAND WILL BE EXCAVATED TO A DEPTH OF 0.15-METERS (0.5-FEET) BELOW THE WATER LEVEL IN THE CHUBB RIVER. THE AREA WILL THEN BE BACKFILLED WITH MATERIALS EXCAVATED AND STOCKPILED UNDER ITEM 613.0401 TO A DEPTH OF 0.15-METERS (6-INCHES) THICK.

4. CONSTRUCTION OF THE MITIGATION WILL BEGIN AFTER ISSUANCE OF THE NEW YORK STATE ADIRONDACK PARK AGENCY AND USACE PERMIT AND IN ACCORDANCE WITH THE NOTIFICATION REQUIREMENTS OF THE PERMIT. ALTHOUGH MOST OF THE VEGETATION IN THE MITIGATION WETLAND IS SHRUB/SCRUB, ANY REQUIRED TREE CLEARING WILL BE IN ACCORDANCE WITH THE DATE RESTRICTIONS IDENTIFIED IN THE PERMIT.

5. THIS WORK SHALL CONSIST OF THE EXCAVATION, STOCKPILING, AND PLACEMENT OF ORGANIC SOILS AS INDICATED ON THE CONTRACT PLANS AND AS DESIGNATED BY THE ENGINEER.

6. CONTRACTOR SHALL EXCAVATE, STOCKPILE, AND PLACE THE SOILS IDENTIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. EXCESS STOCKPILED MATERIAL SHALL BE DISPOSED OF, AS DIRECTED BY THE ENGINEER.

7. ALL GRADED SURFACES SHALL BE WITHIN 15 MM (3-IN.) OF THE GRADES AND LIMITS SHOWN ON THE PLANS.

8. ALL EARTH-MOVING EQUIPMENT SHALL BE WASHED PRIOR TO ARRIVAL AT THE SITE TO REMOVE ALL SOIL, ORGANIC MATTER, AND OTHER MATERIAL THAT MAY CONTAIN THE SEEDS AND OTHER PARTS OF UNDESIRABLE PLANT SPECIES. THE REQUIREMENT FOR EQUIPMENT WASHING SHALL BE RESTRICTED TO WORK WITHIN THE WETLAND CREATION AREAS AS WELL AS TOPSOIL DONOR AREAS.

9. EARTH-MOVING EQUIPMENT SHALL BE WASHED OUTSIDE THE WETLAND CREATION AND/OR TOPSOIL DONOR AREAS USING A HIGH-PRESSURE WATER HOSE. WATER PRESSURE SHALL BE SUFFICIENT TO REMOVE ALL SOIL, ORGANIC AND OTHER UNSUITABLE MATERIAL THAT MAY CONTAIN UNDESIRABLE PLANT SEEDS AND OTHER PLANT PARTS.

10. ALL EARTH-MOVING EQUIPMENT SHALL BE INSPECTED BY THE ENGINEER PRIOR TO USE IN THE WETLAND CREATION/TOPSOIL DONOR AREAS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE ENGINEER SHALL REJECT ANY EARTH-MOVING EQUIPMENT THAT APPEARS TO CONTAIN SOIL AND/OR PLANT MATERIAL OF UNKNOWN OR UNDESIRABLE ORIGIN, UNTIL SUCH EQUIPMENT HAS BEEN PROPERLY WASHED AND RE-INSPECTED BY THE ENGINEER.

CONTROL OF INVASIVE SPECIES

1. PRIOR TO CONSTRUCTION, A VISUAL RECHECK OF WETLAND A WILL BE MADE BY A WETLAND SPECIALIST TO DETERMINE IF ANY INVASIVE SPECIES OCCUR IN THE EXISTING WETLAND. IF INVASIVE SPECIES ARE ENCOUNTERED, CARE WILL BE TAKEN DURING CONSTRUCTION TO LIMIT THE POTENTIAL SPREAD OF SEED, ROOTS, OR TOPSOIL CONTAINING THE INVASIVE SPECIES INTO THE MITIGATION WETLAND.

2. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL REQUIREMENTS TO PREVENT THE SPREAD OF ANY INVASIVE PLANT SPECIES. SPECIFICALLY, THE CONTRACTOR SHALL ACTIVELY WORK TO PREVENT THE SPREAD OF PHRAGMITES AUSTRALIS (COMMON REED), LYTHRUM SALICARIA (PURPLE LOOSESTRIFE), POLYGONUM CUSPIDATUM (JAPANESE KNOTWEED) AND ANY OTHER NOXIOUS OR INVASIVE PLANTS IDENTIFIED.

3. SUCH ACTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO THE CLEANING OF ALL EQUIPMENT SUSPECTED OF CONTAINING THE ROOTS, SEEDS, OR OTHER VIABLE PARTS OF THE INVASIVE PLANT SPECIES; SUCH EQUIPMENT MIGHT INCLUDE EXCAVATORS AND TRUCKS USED FOR TRANSPORTATION AND MOVEMENT OF EXCAVATED SOIL OR TOPSOIL, STONE, ORGANIC MATTER, TREES, SHRUBS OR OTHER SIMILAR MATERIAL.

4. CLEANING SHALL BE ACCOMPLISHED PRIOR TO EQUIPMENT ARRIVING AT THE WORK SITE AND BEFORE EACH PIECE OF EQUIPMENT LEAVES THE SITE. THIS EQUIPMENT CLEANING WILL HELP TO PREVENT THE PROPAGATION AND MOVEMENT OF INVASIVE SPECIES FROM ONE PROJECT SITE TO ANOTHER. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE NO INVASIVE SPECIES CURRENTLY EXIST AND THE HABITAT IS PRISTINE REGULATED WETLAND.

5. SPOIL AREAS SHALL BE APPROVED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) FOR THE DISPOSAL OF SOIL SUSPECTED OF INCLUDING INVASIVE SPECIES.

UPLAND PLANTING

1. NO PLANTING SHALL BE DONE WHEN THE SOIL IS FROZEN OR OTHERWISE IN AN UNSATISFACTORY CONDITION FOR WORKING AS DETERMINED BY THE ENGINEER.

2. THE DEPTH OF ALL PLANT PITS SHALL ALLOW THE ROOT BALL TO SIT ON UNDISTURBED SUBGRADE UNLESS OTHERWISE SPECIFIED.

3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER NONMOVABLE OBSTRUCTIONS. WHERE NONMOVABLE OBSTRUCTIONS ARE ENCOUNTERED, THE PLANT PITS SHALL BE RELOCATED, AS DIRECTED BY THE ENGINEER.

4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST TWO FULL WORKING DAYS BEFORE INTENDED TRANSPLANTING OF PLANT MATERIALS TO THE SITE. THE CONTRACTOR SHALL FURNISH LEGIBLE COPIES OF THE CERTIFICATES OF INSPECTION OF SEED MATERIALS AND A COPY OF THE INVOICE FOR EACH SHIPMENT SHOWING POINT OF ORIGIN, QUANTITIES, AND KINDS OF MATERIALS SUPPLIED. SEED WHICH FAILS TO MEET THE SPECIFICATIONS, AS DETERMINED BY THE ENGINEER, SHALL BE REJECTED AND ALL REJECTED SEED SHALL BE PROMPTLY REMOVED FROM THE PROJECT SITE.

5. ALL PLANTS NOT TRANSPLANTED IMMEDIATELY SHALL BE PROPERLY PROTECTED FROM DAMAGE AND DRYING OUT. SUCH PROTECTION SHALL INCLUDE THE TIME WHEN THE PLANTS ARE BEING HANDLED OR IN TEMPORARY STORAGE. BARE ROOT PLANTS NOT TRANSPLANTED IMMEDIATELY SHALL BE PUDDLED AND HEELED IN. THE BUNDLES OF HEELED IN PLANTS SHALL BE OPENED AND THE PLANTS SHALL BE SPACED SEPARATELY. THE ROOTS OF THE PLANTS SHALL HAVE THEIR EARTH BALLS PROTECTED BY EARTH, MULCH OR STRAW, OR THEY MAY BE HEELED IN. ALL PLANTS NOT TRANSPLANTED IMMEDIATELY SHALL BE WATERED AS APPROVED BY THE ENGINEER.

6. LOCATIONS FOR PLANTS AND OUTLINES OF AREAS TO BE PLANTED SHALL BE STAKED OR MARKED OUT ON THE GROUND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER BEFORE ANY PLANT PITS OR PLANT BEDS ARE DUG.

7. THE MINIMUM PLANT PIT DIAMETER SHALL BE 2 TIMES THE DIAMETER OF THE ROOT SPREAD OR ROOT BALLS OF THE PLANTS TO BE PLANTED IN THEM OR AS DIRECTED BY THE ENGINEER.

8. ALL PLANTINGS SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AND DIRECTIONS OF THE ENGINEER.

WETLAND SOIL PREPARATION

(SHALL COMMENCE FOLLOWING SUCCESSFUL COMPLETION OF EROSION CONTROL WORK FOR SITE CONSTRUCTION)

1. ESTABLISH OR RE-ESTABLISH PROPOSED FINISHED GRADES WITHIN ALL POND AND WETLAND AREAS.

2. TOPSOIL PLACED IN THE WETLAND AREA SHALL HAVE AN ORGANIC CONTENT NOT LESS THAN 10% NOR GREATER THAN 20%.

3. TOPSOIL SHALL BE DISTRIBUTED IN THE WETLAND IMMEDIATELY PRIOR TO FINAL GRADING AND SEEDING.

4. AFTER FINAL GRADING IS COMPLETED, STABILIZE BY HYDROSEEDING WITH NATIVE/ NATURAL WILDFLOWER SEED MIX (SEE SEED MIX TABLES AND ZONE LEGEND).

5. WETLAND AND UPLAND SOIL SHALL CONFORM TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) REQUIREMENTS FOR TOPSOIL CONSISTENT WITH THE REQUIREMENTS 613.0301, WETLAND TOPSOIL.

6. THE SUBSOIL WITHIN THE AREAS TO BE COVERED BY TOPSOIL SHALL BE GRADED SO THAT THE COMPLETED WORK AFTER TOPSOIL IS PLACED SHALL CONFORM TO THE SPECIFIED LINES AND GRADES.

7. WHERE SPECIFIED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL SCARIFY OR TILL THE SURFACE OF THE SUBSOIL BEFORE THE TOPSOIL IS PLACED TO PERMIT BONDING THE TOPSOIL WITH THE SUBSOIL. TILLAGE BY DISKING, HARROWING, RAKING OR OTHER APPROVED METHODS SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT DEPRESSIONS AND RIDGES FORMED BY TILLAGE SHALL BE PARALLEL TO THE CONTOURS.

8. TOPSOIL IN AN UNWORKABLE CONDITION DUE TO EXCESSIVE MOISTURE, FROST OR OTHER CONDITIONS SHALL NOT BE PLACED UNTIL IT IS SUITABLE FOR SPREADING.

9. TOPSOIL SHALL BE PLACED ON THE DESIGNATED AREA AND SPREAD TO A THICKNESS OF 300 MM (12-INCHES). AFTER THE TOPSOIL IS SPREAD, ALL LARGE STIFF CLODS, ROCKS, ROOTS OR OTHER FOREIGN MATTER SHALL BE CLEARED AND DISPOSED OF BY THE CONTRACTOR AS APPROVED SO THAT THE FINISHED SURFACE WILL BE ACCEPTABLE FOR SUBSEQUENT WORK SUCH AS SEEDING, MULCHING OR PLANTING.

10. SEPARATE UPPER 12-IN. OF MUCK TOPSOIL FROM DEEPER MUCK AND STOCKPILE SEPARATELY. UPPER TOPSOIL WILL BE USED IN MITIGATION AREAS. COMPRESS PLACED SUBSOIL W/BUCKET OR TRUCKS.

11. CHIP THE TOPS AND STEMS OF SHRUBS IN THE IMPACT AREA AND LEAVE REMAINS ON GROUND. CUT TREES AND REMOVE STUMPS.

12. SPREAD WETLAND TOPSOIL 6-IN. DEEP LEAVING HUMMOCKS AND DEPRESSIONS 6-8 IN. HIGH/DEEP.

13. THE SOILS PLACED IN THE MITIGATION AREA WILL BE POPULATED WITH ROOT CUTTINGS FROM THE AREA OF WETLAND A EXCAVATION AND SEEDED WITH THE WETLAND SEED MIXTURE APPROVED BY THE ADIRONDACK PARK AGENCY (APA) - ITEM 613.0302M. THE SEEDING WILL BE CONDUCTED IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS.

WETLAND PLANT PREPARATION

1. ALLOW POND TO FILL TO NORMAL POOL ELEVATION. PROVIDE STANDING TIME OF SIX TO NINE MONTHS (OR UNTIL NEXT PLANTING SEASON).

2. DURING AND AFTER STANDING TIME, NOTE ANY DEPARTURES FROM DESIGNED DEPTH AND PLANTING ZONES.

3. AFTER STANDING TIME, PRIOR TO INITIAL PLANTING, SURVEY AND STAKE VERTICAL ELEVATIONS OF WETLAND FACILITY TO NEAREST INCH, DELINEATING PLANTING ZONES AS INDICATED ON THE PLAN AND IN THE PLANTING SCHEDULE. ADJUST LOCATIONS TO CORRESPOND WITH DEPTH ZONES AS SURVEYED.

WETLAND PLANTING

1. THE WETLAND POND SHALL BE FULLY DRAINED, USING PUMPING AS NEEDED AT LEAST THREE DAYS PRIOR TO PLANTING.

2. SEED SHALL BE APPLIED ACCORDING TO SUPPLIER'S INSTRUCTIONS AT THE RATES INDICATED IN THE PLANTING SCHEDULE OR AS RECOMMENDED BY THE SUPPLIER. SEED PRODUCTS AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL.

4. BEGIN REFILLING OF WETLAND PONDS SHORTLY AFTER SEED PLANTINGS GERMINATE AND GROW 3-IN. TO 6-IN. TALL.

WETLAND SEEDING NOTES

1. THE OPTIMUM TIME FOR SEEDING IS BETWEEN MAY 1ST AND JUNE 15TH OR BETWEEN AUGUST 15TH AND OCTOBER 1ST AS WEATHER PERMITS. MID SUMMER SEEDING DURING DRY PERIODS SHOULD BE AVOIDED UNLESS WATERING IS PROVIDED. IF WEATHER CONDITIONS TEMPORARILY PROHIBIT SEEDING, PROVIDE STRAW (OR HAY) MULCH AND ANCHORING AT THE RATE SPECIFIED FOR SEED MIX A UNTIL PROPER SEEDING TECHNIQUES CAN BE IMPLEMENTED.

2. PRIOR TO PERMANENT SEEDING, ADD LIME TO A PH OF 6.0 AND 5-5-10 FERTILIZER AT 14 LBS. PER 1000 SQUARE FEET (OR AS SPECIFIED BY THE MANUFACTURER).

3. THE WETLAND CROSS-SECTION, INCLUDING THE SHALLOW EXCAVATION BOTTOMS AND SIDE-SLOPES, TO (1-FT.) VERTICALLY AND/OR (1.5-FT.) HORIZONTALLY AS SHOWN ON DWGS. WP-2 AND WP-3 WILL BE SEEDED WITH WETLAND SEED MIX.

4. THE SEED MIXTURE SHALL BE APPLIED EITHER BY BROADCAST SPREADING OR BY HYDROSEEDING.

5. A LIGHT APPLICATION OF CELLULOSE-FIBER MULCH WILL BE APPLIED ONLY AT A RATE SUFFICIENT TO SEE WHERE SEED AND/OR MULCH IS APPLIED.

6. SEED DORMANCY WILL BE BROKEN, PRIOR TO SEEDING, AS PER THE RECOMMENDATIONS OF THE SEED SUPPLIER.

7. THE SEED SHALL BE APPLIED ON FRESHLY DISTURBED SOIL, AND PLACED IMMEDIATELY AFTER FINAL GRADING.

8. IN LIEU OF THE CUSTOM MIXES SPECIFIED IN THE SEED MIX TABLES ON DRAWING NO. WP-1; OBL/FACW PERENNIAL FOOD AND COVER MIX ERNMX-120 AVAILABLE FROM ERNST CONSERVATION SEEDS OR NORTHEAST WETLAND FOREST HERB MIX STCMX-11 FROM NE CONSULTANTS MAY BE USED.

9. THE SPECIES CONTENT OF THE WETLAND SEED MIX SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO PLACEMENT.

10. THE SEED MIX SHALL BE APPLIED AT A RATE OF 1.1 KG PER HECTARE (1.0 LBS. PER ACRE).

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		47	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ADIRONDACK PARK AGENCY
P ... DATE ...

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WETLAND MITIGATION AREA NOTES (SHEET 3 OF 10)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

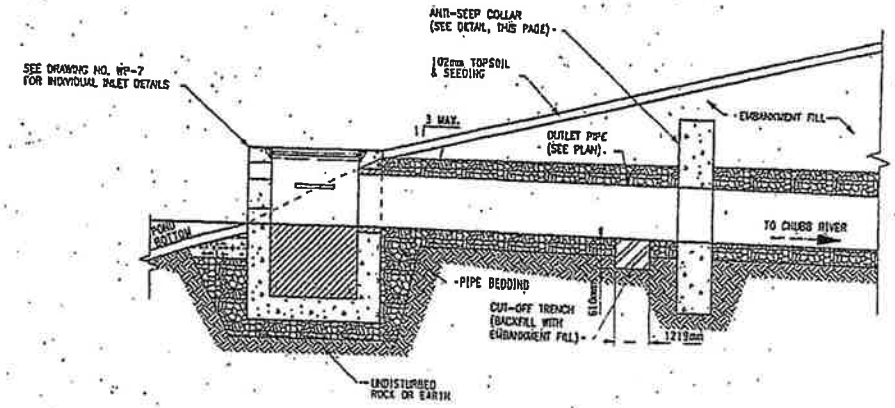
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env_02	ONE	FEB 2011	WP-2

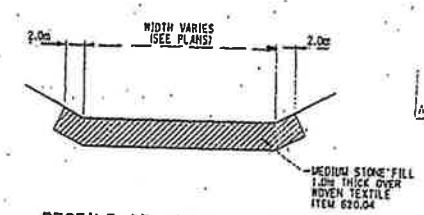
00705

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		51	173

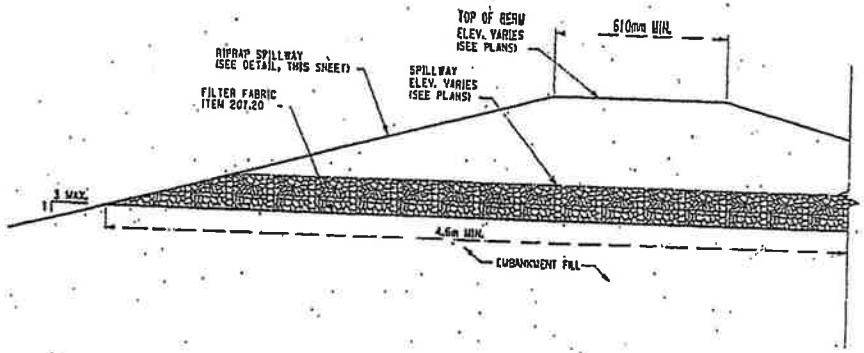
P.I.N. 1754.96
OLD MILITARY ROAD (CR 351)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



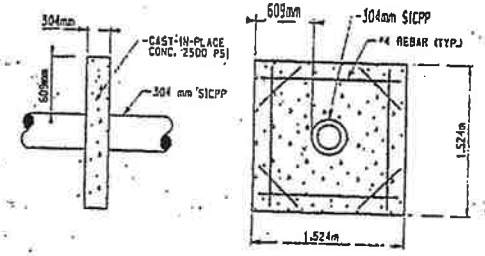
TYPICAL INSTALLATION, ANTI-SEEP COLLAR
NO SCALE



PROFILE OF RIPRAP SPILLWAY
ITEM 620.04
NO SCALE



TYPICAL SPILLWAY EMBANKMENT CROSS SECTION
NO SCALE



ANTI-SEEP COLLAR
ITEM 603.77210163
NO SCALE

FINAL PLANS
ADIRONDACK PARK AGENCY
P. 2010 161
DATE 9-15-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

STORMWATER QUALITY DETAILS
(SHEET 7 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Fort-Albert Associates
Architecture, Engineering and Surveying, P.O. Hanover Square, 433 New Karner Road Albany, New York 12205

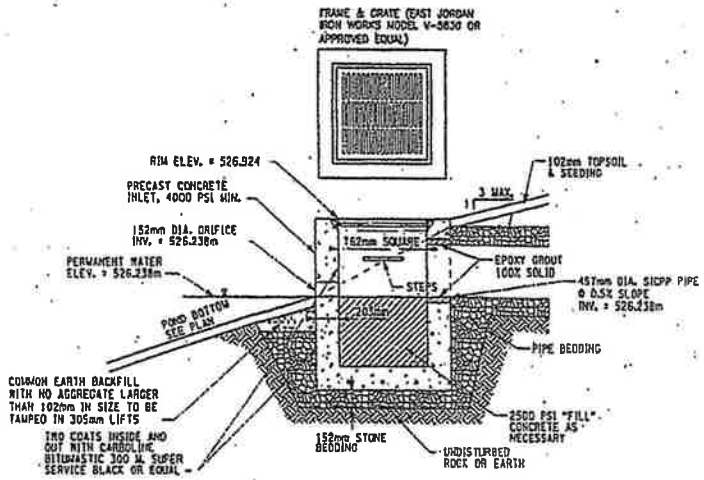
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.dat.env.05	ONE	FEB 2011	WP-6

FILE NAME :
DATE/TIME :
USER :

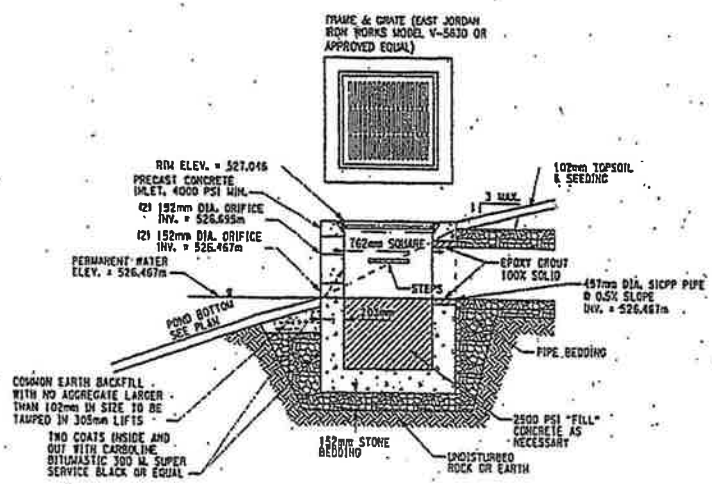
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAM ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAM

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		52	173

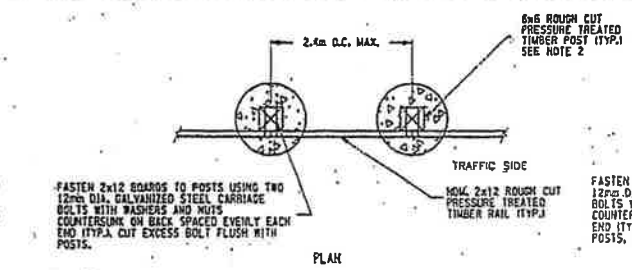
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

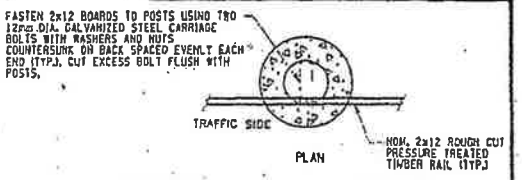


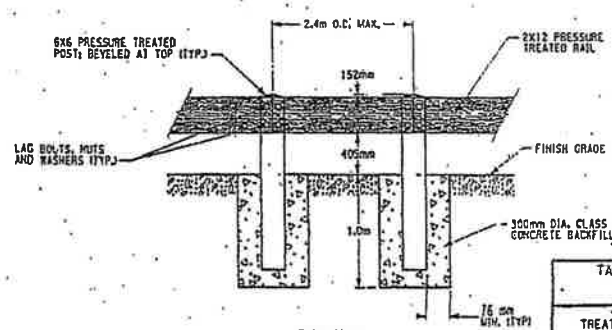
POND OUTLET "R4A" DETAIL
ITEM 604.500101
NO SCALE



POND OUTLET "R7A" DETAIL
ITEM 604.500101
NO SCALE







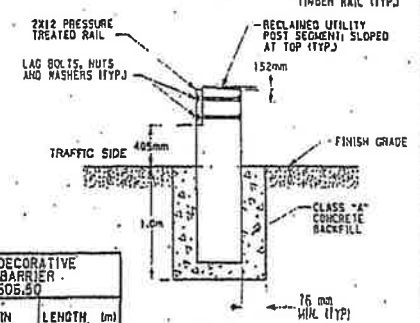


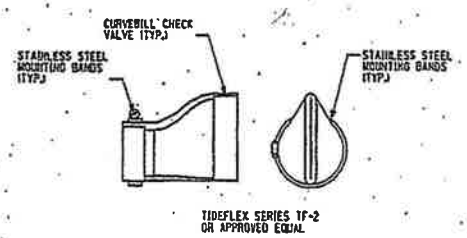
TABLE OF DECORATIVE TIMBER BARRIER
ITEM 606.50

TREATMENT BASIN	LENGTH, (m)
R4	54
R7	0
TOTAL	54

NOTES:

1. FINISH SHALL BE A DARK GRAY STAIN; PROVIDE COLOR SAMPLES TO THE ENGINEER AND OBTAIN APPROVAL BEFORE APPLYING.
2. SPACING FOR POSTS SHALL BE 2.4m O.C. MAX. FOR EITHER OPTION.
3. IF OPTION B IS CHOSEN, POSTS SHALL BE IN GOOD CONDITION AND BE OF A CONSISTENT DIAMETER, WITH NO MORE THAN 50mm DIFFERENCE BETWEEN THE LARGEST AND SMALLEST POST DIAMETERS. POLES OR POLE SECTIONS SHALL BE INSPECTED FOR RESIDUAL HARDWARE OR OTHER HAZARDS BEFORE USE.

DECORATIVE TIMBER BARRIER
ITEM 606.50
NO SCALE



CURVEBILL CHECK VALVE DETAIL
NO SCALE

FINAL PLANS
ADIRONDACK PARK AGENCY
DATE: 11/15/11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

Fall-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

STORMWATER QUALITY DETAILS
(SHEET 8 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
s_det_stw_01	ONE	FEB 2011	SP-7

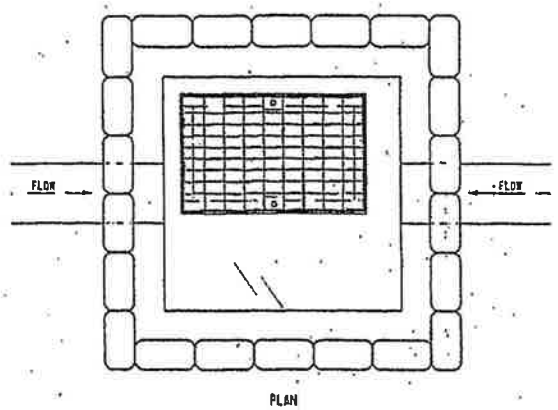
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAN ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAN

FILE NAME =
DATE/TIME =
USER =

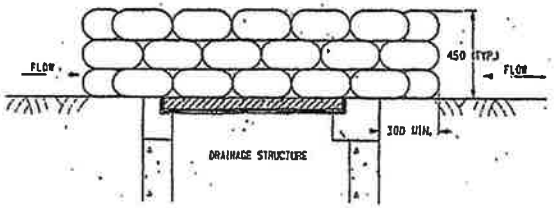
00703

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		53	173

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN

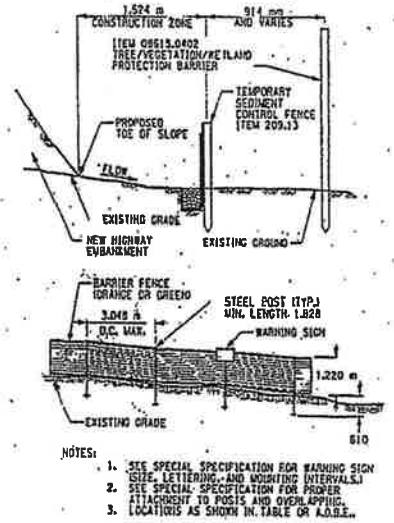


CROSS SECTION

DRAINAGE STRUCTURE INLET PROTECTION - TEMPORARY (GRAVEL BAG)

SYMBOL

TABLE INLET AND OUTLET PROTECTION - ITEM 209.23 M	
DS NO.	METERS
R49	8.0
TOTAL	8.0



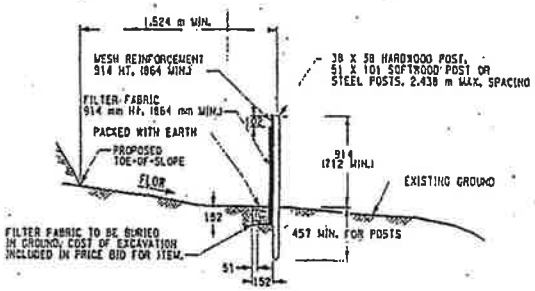
NOTES:
1. SEE SPECIAL SPECIFICATION FOR WARNING SIGN (SIZE, LETTERING, AND MOUNTING INTERVALS)
2. SEE SPECIAL SPECIFICATION FOR PROPER ATTACHMENT TO POSTS AND OVERLAPPING.
3. LOCATIONS AS SHOWN IN TABLE OR A.O.D.E.

ITEM 209.13 & 08615.0402
WETLAND PROTECTION BARRIER ZONE
NOT TO SCALE

SYMBOL

TABLE OF WETLAND PROTECTION BARRIER ZONE ITEM 209.13 & 08615.0402	
TREATMENT BASIN	LENGTH (m)
R4	28
R7	69
TOTAL	97

TABLE OF SILT FENCE ITEM 209.13	
TREATMENT BASIN	LENGTH (m)
R4	235
R7	34
TOTAL	269



ELEVATION

ITEM 209.13
TEMPORARY SEDIMENT CONTROL FENCING
NOT TO SCALE

SYMBOL

APR 04 2011

FINAL PLANS
ADIRONDACK PARK AGENCY
BY [illegible]
DATE 4-19-11

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SEDIMENTATION CONTROL DETAILS (SHEET 9 OF 10)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Harvey Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
4_det_env.08	ONE	FEB 2011	EP-8

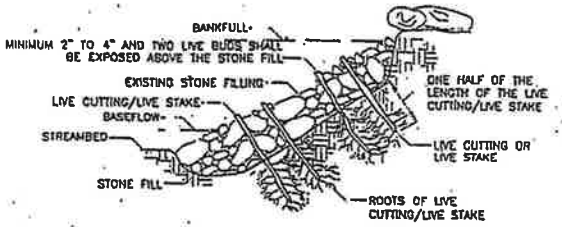
DESIGN SUPERVISOR M. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY D. FARNAM ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNAM

FILE NAME = DATE/TIME = USER =

00707

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		53	173

P.I.N. 1754.98
OLD MILITARY ROAD RTE 359
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



LIVE CUTTING/LIVE STAKE JOINT PLANTING CROSS SECTION
NOT TO SCALE

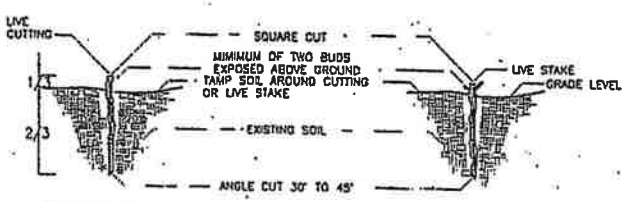
CONSTRUCTION SPECIFICATIONS

1. CARE SHALL BE TAKEN NOT TO DAMAGE THE LIVE CUTTINGS/LIVE STAKES DURING INSTALLATION. THOSE DAMAGED SHALL BE LEFT IN PLACE AND SUPPLEMENTED WITH AN INTACT LIVE CUTTING/LIVE STAKE.
2. THE LENGTHS OF LIVE CUTTINGS/LIVE STAKES DEPENDS UPON THE APPLICATION. THE LENGTH SHALL EXTEND THROUGH THE SURFACE OF THE STONE FILL. AT LEAST HALF THE LENGTH SHALL BE INSERTED IN TO THE SOIL, BELOW THE STONE FILL.
3. A PILOT HOLE IS REQUIRED TO ENSURE THAT THE LIVE CUTTING/LIVE STAKE IS NOT DAMAGED WHEN DRIVEN THROUGH THE STONE FILLING. ACCESS SHALL BE MADE THROUGH THE USE OF A DIBBLE BAR, OR SIMILAR TOOL TO WORK AN OPENING THROUGH THE ROCK LAYER.
4. MINIMUM 2" TO 4" AND TWO LIVE BUDS OF THE LIVE CUTTING/LIVE STAKE SHALL BE EXPOSED ABOVE THE STONE FILLING.

ITEM 616.08000024
LIVE STAKE PLANTING (26 TO 50 mm)

WOODY STEMS
GRAY DOGWOOD – CORNUS RACEMOSA
AMERICAN ELDER – SAMBUCUS CANADENSIS
MEADOWSWEET SPIREA – SPIREA ALBA

SEED
BIRDSFOOT TREFOIL – LOTUS CORNICULATUS
RED CLOVER – TRIFOLIUM PRATENSE
WHITE CLOVER – TRIFOLIUM REPENS



LIVE CUTTING CROSS SECTION
NOT TO SCALE

LIVE STAKE CROSS SECTION
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. LIVE CUTTINGS SHALL RANGE FROM 1/2" TO 1" IN DIAMETER AND BE FROM 1' TO 4' IN LENGTH.
2. LIVE STAKES SHALL RANGE FROM 1" TO 4" IN DIAMETER AND BE FROM 5' TO 8' IN LENGTH.
3. SEE CONTRACT DOCUMENTS FOR SPECIES, SIZE, SPACING, LOCATION, AND FINAL DETERMINATION ON USE OF CUTTINGS OR STAKES.
4. LIVE CUTTINGS/LIVE STAKES SHALL BE CUT TO A POINT ON THE BASAL END FOR INSERTION IN THE GROUND.
5. USE A DEAD BLOW HAMMER TO DRIVE STAKES INTO THE GROUND. (HAMMER HEAD FILLED WITH SHOT OR SAND.) A DIBBLE, IRON BAR, OR SIMILAR TOOL SHALL BE USED TO MAKE A PILOT HOLE TO PREVENT DAMAGING THE MATERIAL DURING INSTALLATION.
6. LIVE CUTTINGS SHALL BE INSERTED BY HAND INTO PILOT HOLES.
7. WHEN POSSIBLE, TAMP SOIL AROUND LIVE CUTTING/LIVE STAKES.
8. ANY LIVE CUTTING/LIVE STAKE THAT IS DAMAGED SHALL BE LEFT IN PLACE AND SUPPLEMENTED WITH AN INTACT LIVE CUTTING/LIVE STAKE.

FINAL PLANS
ADIRONDACK PARK AGENCY
DATE 10-15-01

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN ft UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WETLAND LIVE STAKE PLANTING DETAILS
(SHEET 10 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architects, Engineers and Surveyors, P.C.
Harvard Square, 420 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REVISION DATE	DATE	DRAWING NO.
9_697_Env_09	ONE	FEB 2001	WD-9

DESIGN SUPERVISOR R. SHAW JOB MANAGER R. BALDWIN DESIGNED BY R. BALDWIN CHECKED BY D. FARNHAM ESTIMATED BY B. PARKER DRAFTED BY B. PARKER CHECKED BY D. FARNHAM

FILE NAME = DATE/TIME = USER =

00703

DEPARTMENT OF THE ARMY
US Army Corps of Engineers, ATTN: CENAN-OP-RU
Upstate Regulatory Field Office
1 Buffington Street, Bldg 10, 3rd Fl. North
Watervliet, NY 12189-4000

REPLY TO
ATTENTION OF
Upstate New York Section

MAY 16 2011

SUBJECT: Permit Application No. NAN-2009-00881
by Essex County (PIN 1754.96)
for proposed improvements to County Rte 32 (Old Military Road), in the Village of Lake Placid and Town of North Elba, Essex County, New York

Anthony LaVigne
Essex County Department of Public Works
8053 U.S. Route 9
Elizabethtown, New York 12932

This office has reviewed your Joint Application for Permit dated June 17, 2009, as well as additional information submitted by letters dated February 23, 2010, and March 30, 2011. The information included revised drawings entitled "General Plans (Sheet 12 of 19)", drawing no. GP-12, "General Plans (Sheet 16 of 19)", drawing no. GP-16, and "Phase II Permit Plans", drawing nos. ADD-1 through ADD-3, all prepared by Foit-Albert Associates, and dated February 2011. In addition, the applicant submitted a letter dated September 25, 2008 from the Federal Highway Administration stating concurrence with project designation as a NEPA Class II, Programmatic Categorical Exclusion with Documentation. The submitted information describes a proposal that would consist of the following:

The discharge of fill material into waters of the United States to facilitate the replacement of an existing bridge over the Chubb River, and associated road improvements on Old Military Road. The bridge replacement and road improvements will result in permanent impacts to 0.084 acres of wetlands, 0.034 acres of the Chubb River, and 0.017 acres of various unnamed tributaries to the River. Temporary impacts include the discharge of fill for cofferdams and other construction-related impacts to 0.033 acres of wetlands and 0.002 acres of unnamed tributaries. All areas of temporary impact will be restored to pre-construction contours and reseeded upon completion of the project.

Based upon the information provided, it appears that your proposed work may be authorized under Department of the Army nationwide general permit number: 23.

Please refer to the enclosed material for information pertaining to the nationwide general permit program. The work may be performed without further authorization from this office provided the activity complies with the terms and conditions of the Nationwide Permits (NWP) and the permit conditions listed in Section B, No. 23, Section C, any applicable New York District regional conditions, and any applicable regional conditions added by the State of New York. Please note that NWP General Condition No. 12 requires the installation and maintenance of proper soil erosion and sediment controls during construction.

Please note that this nationwide permit (NWP) authorization is based on a preliminary jurisdictional determination (JD), a copy of which is enclosed. A preliminary JD is not appealable. If you wish, prior to commencement of the authorized work you may request an approved JD, which may

be appealed, by contacting the New York District, U.S. Army Corps of Engineers for further instruction. To assist you in this decision and address any questions you may have on the differences between preliminary and approved jurisdictional determinations, please review the U.S. Army Corps of Engineers Regulatory Guidance Letter (RGL) No. 08-02, which can also be found at:

http://www.usace.army.mil/cw/cecwo/reg/rgls/rgl08-02.pdf

Please note that this determination does not eliminate the need to obtain any other Federal, State or local authorizations required by law for the above described work, including any required permit from the NYSDEC. **The project requires an individual water quality certificate from the NYSDEC.**

Any inquiries can be directed to the undersigned at (518) 266-6357.

Sincerely,

John R. Connell
Senior Project Manager
Upstate New York Section

Enclosures

NWP 23
NWP General Conditions
Preliminary Jurisdictional Determination Form
NWP Compliance Certification and Report Form

Cf (w/o enclosures):
E. Burns - NYSDEC, Region 5 (Warrensburg) (via email)
J. Mondillo - FHWA, New York Division (via email)
T. Saehrig – APA (via email)
J. Doherty – Fisher Associates (via email)
Town of North Elba
Village of Lake Placid

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):

MAY 16 2011

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
Anthony LaVigne
Essex County Department of Public Works
8053 U.S. Route 9
Elizabethtown, New York 12932

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: NY District, Essex County / Old Military Rd (PIN 1754.96), NAN-2009-00881

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: Old Military Rd (Cty Rte 32), Lake Placid

State: NY County: Essex City: North Elba
Center coordinates of site (lat/long in degree decimal format):
Lat. 44.28° N, Long. -73.99° W.

Universal Transverse Mercator:

Name of nearest waterbody: Chubb River

Identify (estimate) amount of waters in the review area:

Non-wetland waters: linear feet: width (ft) and/or 0.06 acres.
Cowardin Class: Riverine
Stream Flow: Perennial
Wetlands: 0.117 acres.
Cowardin Class: Scrub-shrub

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal:
Non-Tidal: Chubb River

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:
☒ Field Determination. Date(s): July 27, 2009

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

applicant/consultant: "General Plans (Sheet 12 of 19)", drawing no. GP-12, "General Plans (Sheet 16 of 19)", drawing no. GP-16, and "Phase II Permit Plans", drawing nos. ADD-1 through ADD-3, all prepared by Foit-Albert Associates, and dated February 2011

00713

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
- ☒ Office concurs with data sheets/delineation report.
- ☐ Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps:

☐ Corps navigable waters' study:

☐ U.S. Geological Survey Hydrologic Atlas:
- ☐ USGS NHD data.
- ☐ USGS 8 and 12 digit HUC maps.

☒ U.S. Geological Survey map(s). Cite scale & quad name: Lake Placid, NY 7.5" quad .

☐ USDA Natural Resources Conservation Service Soil Survey.Citation:

☐ National wetlands inventory map(s). Cite name:

☐ State/Local wetland inventory map(s):

☐ FEMA/FIRM maps:

☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

☒ Photographs: ☐ Aerial (Name & Date):
or ☒ Other (Name & Date):photos from site visit 27 Jul 2009.

☐ Previous determination(s). File no. and date of response letter:

☐ Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

05/16/2011

Signature and date of
Regulatory Project Manager

Signature and date of
person requesting preliminary JD

CENAN-OP-R
00714

NATIONWIDE PERMIT COMPLIANCE CERTIFICATION AND REPORT FORM

Permittee: Essex County Permit No. NAN-2009-00881

Date Permit Issued: MAY 16 2011

Location: Village of Lake Placid and Town of North Elba, Essex County, New York

Within 30 days of the completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the address at the bottom of this form.

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

Fold this form into thirds, with the bottom third facing outward. Tape it together and mail to the address below **or FAX to (518) 266-6366.**

Place Stamp Here

Department of the Army
New York District Corps of Engineers
ATTN: CENAN-OP-RU
Upstate Regulatory Field Office
1 Buffington Street, Bldg. 10, 3rd Fl. North
Watervliet, New York 12189-4000

Activities undertaken, assisted, authorized, regulated, funded, or financed, in whole or in part, by another Federal agency or department where:

(a) That agency or department has determined, pursuant to the Council on Environmental Quality's implementing regulations for the National Environmental Policy Act (40 CFR part 1500 et seq.), that the activity is categorically excluded from environmental documentation, because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment; and

(b) The Office of the Chief of Engineers (Attn: CECW–CO) has concurred with that agency's or department's determination that the activity is categorically excluded and approved the activity for authorization under NWP 23.

The Office of the Chief of Engineers may require additional conditions, including pre-construction notification, for authorization of an agency's categorical exclusions under this NWP.

Notification: Certain categorical exclusions approved for authorization under this NWP require the permittee to submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 27). The activities that require pre-construction notification are listed in the appropriate Regulatory Guidance Letters. (Sections 10 and 404)

Note: The agency or department may submit an application for an activity believed to be categorically excluded to the Office of the Chief of Engineers (Attn: CECW–CO). Prior to approval for authorization under this NWP of any agency's activity, the Office of the Chief of Engineers will solicit public comment. As of the date of issuance of this NWP, agencies with approved categorical exclusions are the: Bureau of Reclamation, Federal Highway Administration, and U.S. Coast Guard. Activities approved for authorization under this NWP as of the date of this notice are found in Corps Regulatory Guidance Letter 05–07, which is available at: *http://www.usace.army.mil/inet/functions/cw/cecwo/reg/rglsindx.htm*. Any future approved categorical exclusions will be announced in Regulatory Guidance Letters and posted on this same Web site.

00716

GENERAL CONDITIONS FOR NATIONWIDE PERMITS 2007

C. Nationwide Permit General Conditions

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as appropriate, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP.

permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. *Aquatic Life Movements.* No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be installed to maintain low flow conditions.

3. *Spawning Areas.* Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. *Migratory Bird Breeding Areas.* Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. *Shellfish Beds.* No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48.

6. *Suitable Material.* No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. *Water Supply Intakes.* No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement

reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h–2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, explaining the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate to the permitted activity on historic properties.

19. *Designated Critical Resource Waters.* Critical resource waters include, NOAA-designated marine sanctuaries, National Estuarine Research Reserves, state natural heritage sites, and outstanding national resource waters or other waters officially designated by a state as having particular environmental or ecological significance and identified by the district engineer after notice and opportunity for public comment. The district engineer may also designate additional critical resource waters after notice and opportunity for comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, and 50 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 27, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

20. *Mitigation.* The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10 acre and require pre-construction notification, unless the district engineer determines in writing that some other form of mitigation would be more environmentally appropriate and provides a project-specific waiver of this requirement. For losses of 1/10 acre or less that require pre-construction notification, the district engineer may require compensatory mitigation to ensure that the activity results in minimal adverse effects on the aquatic environment. Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream restoration, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of ½ acre, it cannot be used to authorize any project resulting in the loss of greater than ½ acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland

comprises with the terms of the NWP. (Sketches usually clarify the project and when provided result in a quicker decision.);

(4) The PCN must include a delineation of special aquatic sites and other waters of the United States on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters of the United States, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45-day period will not start until the delineation has been submitted to or completed by the Corps, where appropriate;

(5) If the proposed activity will result in the loss of greater than ⅒ acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and

(7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) *Form of Pre-Construction Notification:* The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

(2) For all NWP 48 activities requiring pre-construction notification and for other NWP activities requiring pre-construction notification to the district engineer that result in the loss of greater than ½-acre of waters of the United States, the district engineer will immediately provide (e.g., via facsimile transmission, overnight mail, or other expeditious manner) a copy of the PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will then have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame, but will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the expedite agency coordination.

(5) For NWP 48 activities that require reporting, the district engineer will provide a copy of each report within 10 calendar days of receipt to the appropriate regional office of the NMFS.

(e) *District Engineer's Decision:* In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If the proposed activity requires a PCN and will result in a loss of greater than ⅒ acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The district engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed work are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the district engineer will notify the permittee and include any conditions the district engineer deems necessary. The district engineer must approve any compensatory mitigation proposal before the permittee commences work. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the district engineer to be minimal, the district engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP.

or water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

Practicable: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

Pre-construction notification: A request submitted by the project proponent to the Corps for confirmation that a particular activity is authorized by nationwide permit. The request may be a permit application, letter, or similar document that includes information about the proposed work and its anticipated environmental effects. Pre-construction notification may be required by the terms and conditions of a nationwide permit, or by regional conditions. A pre-construction notification may be voluntarily submitted in cases where pre-construction notification is not required and the project proponent wants confirmation that the activity is authorized by nationwide permit.

Preservation: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area.

Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: Re-establishment and rehabilitation.

streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a course substrate in riffles results in a rough flow, a turbulent surface, and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

Riparian areas: Riparian areas are lands adjacent to streams, lakes, and estuarine-marine shorelines. Riparian areas are transitional between terrestrial and aquatic ecosystems, through which surface and subsurface hydrology connects waterbodies with their adjacent uplands. Riparian areas provide a variety of ecological functions and services and help improve or maintain local water quality. (See general condition 20.)

Shellfish seeding: The placement of shellfish seed and/or suitable substrate to increase shellfish production. Shellfish seed consists of immature individual shellfish or individual shellfish attached to shells or shell fragments (i.e., spat on shell). Suitable substrate may consist of shellfish shells, shell fragments, or other appropriate materials placed into waters for shellfish habitat.

Single and complete project: The term "single and complete project" is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. A single and complete project must have independent utility (see definition). For linear projects, a "single and complete project" is all crossings of a single water of the United States (i.e., a single waterbody) at a specific location. For linear projects crossing a single waterbody several times at separate and distant locations, each crossing is considered a single and complete project. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Stormwater management: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse

limited to, stormwater retention and detention ponds and best management practices, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

Stream bed: The substrate of the stream channel between the ordinary high water marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the stream bed, but outside of the ordinary high water marks, are not considered part of the stream bed.

Stream channelization: The manipulation of a stream's course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

Tidal wetland: A tidal wetland is a wetland (i.e., water of the United States) that is inundated by tidal waters. The definitions of a wetland and tidal waters can be found at 33 CFR 328.3(b) and 33 CFR 328.3(f), respectively. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channelward of the high tide line, which is defined at 33 CFR 328.3(d).

Vegetated shallows: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

Waterbody: For purposes of the NWPs, a waterbody is a jurisdictional

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00721

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
ESSEX COUNTY
7551 COURT ST

PO BOX 217
ELIZABETHTOWN, NY 12932-0217
(518) 873-3353

Facility:
OLD MILITARY RD - CHUBB RIVER
OLD MILITARY RD - CO RTE 35|CAROLYN RD TO JOHN BROWN RD
LAKE PLACID, NY 12946

Facility Location: in NORTH ELBA in ESSEX COUNTY
Facility Principal Reference Point: NYTM-E: 579.806 NYTM-N: 4903.005
Latitude: 44°16'33.3" Longitude: 73°59'59.8"
Project Location: Chubb River and two tributaries to Chubb River
Authorized Activity: This permit authorizes instream work for the reconstruction of Old Military Road from Carolyn Road to John Brown Road, involving a bridge replacement and road realignment at the Chubb River crossing, with state/federal wetland mitigation areas along the Chubb River, and two small road culvert replacements within tributaries of the Chubb River. The new bridge at the Chubb River crossing consists of installation of two new concrete abutments, placed immediately east of the existing bridge, with installation of stone rip rap scour protection. The wetland mitigation areas were reviewed and approved by Adirondack Park Agency (APA permit #2010-161) and US Army Corps of Engineers (ACOE permit #NAN-2009-00881). All work shall be performed in accordance with approved plans attached to and made part of this permit.

Permit Authorizations

Excavation & Fill in Navigable Waters - Under Article 15, Title 5
Permit ID 5-1540-00358/00001
New Permit Effective Date: 11/15/2011 Expiration Date: 10/1/2016
Stream Disturbance - Under Article 15, Title 5
Permit ID 5-1540-00358/00003
New Permit Effective Date: 11/15/2011 Expiration Date: 10/1/2016
Water Quality Certification - Under Section 401 - Clean Water Act
Permit ID 5-1540-00358/00002
New Permit Effective Date: 11/15/2011 Expiration Date: 10/1/2016

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NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: MICHAEL J MCMURRAY, Regional Permit Administrator
Address: NYSDEC REGION 5 HEADQUARTERS
1115 NYS ROUTE 86
PO BOX 296
RAY BROOK, NY 12977 -0296

Authorized Signature: _____ Date 11/15/11

Permit Components

NATURAL RESOURCE PERMIT CONDITIONS

WATER QUALITY CERTIFICATION SPECIFIC CONDITION

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following Permits: EXCAVATION & FILL IN NAVIGABLE WATERS; STREAM DISTURBANCE; WATER QUALITY CERTIFICATION

1. **Notice of Intent to Commence Work** The permittee shall submit a Notice of Intent to Commence Work to NYS DEC's Natural Resources Office in Ray Brook at least 48 hours in advance of the time of commencement and shall also notify him/her promptly in writing of the completion of work.

2. **Post Permit Sign** The permit sign enclosed with this permit shall be posted in a conspicuous location on the worksite and adequately protected from the weather.

3. **Prohibition Period for Trout** All instream work, as well as any work that may result in the suspension of sediment is prohibited during the trout spawning and incubation period commencing October 1 and ending April 30.

4. **Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by Fisher Associates & Foit-Albert Associates dated August 2011 (Sheets GP-12, 12a & 13) and wetland mitigation plans Sheets WP-1 thru WP-10. Tributary crossing plans (Sheets ADD-1 &3) dated Feb 2011 prepared by Foit-Albert Assoc.

5. **Install, Maintain Erosion Controls** Erosion and siltation prevention measures such as straw bales, silt fencing, or filter fabric curtains (weighted at bottom and suspended on floats) shall be installed directly downslope or downstream of the work site prior to commencing work and shall be properly maintained during the project until all disturbed areas are successfully stabilized.

6. **Maintain Water Flow During Work** During periods of work activity, sufficient flow of water shall be maintained at all times to sustain aquatic life downstream.

7. **Concrete Leachate** During construction, no wet or fresh concrete or leachate shall be allowed to escape into any wetlands or waters of New York State, nor shall washings from ready-mixed concrete trucks, mixers, or other devices be allowed to enter any wetland or waters. Only watertight or waterproof forms shall be used. Wet concrete shall not be poured to displace water within the forms.

8. **Turbid Discharges** Visually turbid discharges from land clearing, grading or excavation activities, or dewatering operations shall not enter the stream. Prior to entry into any stream, any such discharge shall be:

a. retained in an appropriately maintained upland settling basin;

b. filtered through crushed stone, sand, straw bales, silt screening (maximum opening size of U.S. Sieve Number 20), etc., or

c. directed to a grassy upland area a sufficient distance from the stream to prevent change in turbidity of the receiving water.

9. **Sandbags** Sandbags shall be of the filter fabric type, double bagged and individually tied to prevent sand leakage. They shall be placed and removed manually to prevent spillage. Only clean sand, free of debris, silt, fine particles, or other foreign substances shall be used to fill the bags. All bags shall be filled at an upland site where spillage will not enter the water, and all sand stored on-site shall be surrounded by straw bales or covered with a tarp to prevent erosion of the sand into the water.

10. **Dewatering Within Cofferdam** Dewatering within the cofferdam shall be performed as to minimize siltation and turbidity. Water taken from the coffered area will be passed through settling basins, filter material or other accepted devices to prevent the discharge of turbid water into the receiving waterbody. All fish trapped within the cofferdam during the dewatering process shall be returned, alive and unharmed, to the water outside the confines of the cofferdam.

11. **Settling of Sediments within Cofferdam** The coffrerdam shall remain in place until the water clarity in the coffered area matches the open water.

12. **Clean Fill Only** All fill shall consist of clean soil, sand and/or gravel that is free of the following substances: asphalt, slag, flyash, broken concrete, demolition debris, garbage, household refuse, tires, woody materials including tree or landscape debris, and metal objects. The introduction of materials toxic to aquatic life is expressly prohibited.

13. **No Equipment in the Water** Heavy equipment operation in the water is prohibited. With backhoes and similar heavy equipment, the bucket may enter the water.

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14. **No Rock from Stream Bed** No rock from stream bed shall be used in construction.

15. **Materials Removed from Bed and Banks** Any debris or excess materials from construction of this project shall be immediately and completely removed from the bed and banks of all water areas to an appropriate upland area for disposal.

16. **Seed, Mulch Disturbed Areas** All areas of soil disturbance resulting from this project shall be seeded with an appropriate perennial grass, and mulched with straw immediately upon completion of the project, within two days of final grading, or by the expiration of the permit, whichever is first.

17. **Complete Erosion Controls Before End of Season** All erosion control measures intended to stabilize the work site shall be completed by October 1st of any calendar year. If work authorized by this permit cannot be completed by date specified above, or if seeding is impracticable due to the time of year, interim stabilization measures consisting of erosion control matting or mulching shall be installed by October 1st and maintained in an effective condition until such time as authorized work resumes in the spring or final seeding is performed (when weather conditions favor germination and growth).

18. **Precautions Against Contamination of Waters** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

19. **Human or Archaeological Remains** If any human remains or archaeological remains are encountered during excavation, the permittee must immediately cease, or cause to cease, all work in the area of the remains and notify

Regional Permit Administrator
NYSDEC REGION 5 HEADQUARTERS
1115 NYS ROUTE 86
PO BOX 296
RAY BROOK, NY 12977 -0296

Work shall not resume until written permission to do so has been received from the Department.

20. **No Interference With Navigation** There shall be no unreasonable interference with navigation by the work herein authorized.

21. **State Not Liable for Damage** The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

22. **State May Order Removal or Alteration of Work** If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without

expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.

23. **State May Require Site Restoration** If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may lawfully require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

WATER QUALITY CERTIFICATION SPECIFIC CONDITIONS

1. **Water Quality Certification** The NYS Department of Environmental Conservation hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306 and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. **Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. **Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. **Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

00726

Regional Permit Administrator
NYSDEC REGION 5 HEADQUARTERS
1115 NYS ROUTE 86
PO BOX 296
RAY BROOK, NY 12977 -0296

4. **Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Excavation & Fill in Navigable Waters, Stream Disturbance, Water Quality Certification.

5. **Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

a. materially false or inaccurate statements in the permit application or supporting papers;

b. failure by the permittee to comply with any terms or conditions of the permit;

c. exceeding the scope of the project as described in the permit application;

d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. **Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification
The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit
The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits
The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights
This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

00726

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00723

New York State Department of Environmental Conservation
Division of Water
Bureau of Water Permits, 4th Floor
625 Broadway, Albany, New York 12233-3505
Phone: (518) 402-8111 • **Fax:** (518) 402-9029
Website: www.dec.state.ny.us

Joe Martens
Commissioner

10/18/2011

ESSEX COUNTY
ANTHONY LAVIGNE
8053 U.S. ROUTE 9
ELIZABETHTOWN NY 12932-

RECEIVED
OCT 21 2011
FISHER ASSOCIATES

Re: ACKNOWLEDGMENT of NOTICE of INTENT for Coverage Under SPDES General Permit for Storm Water Discharges from CONSTRUCTION ACTIVITY General Permit No. GP-0-10-001

Dear Prospective Permittee:

This is to acknowledge that the New York State Department of Environmental Conservation (Department) has received a complete Notice of Intent (NOI) for coverage under General Permit No. GP-0-10-001 for the construction activities located at:

RECONST./REHAB OF OLD MILITARY ROAD CR
OLD MILITARY ROAD
NORTH ELBA NY 12946- **County: ESSEX**

Pursuant to Environmental Conservation Law (ECL) Article 17, Titles 7 and 8, ECL Article 70, discharges in accordance with GP-0-10-001 from the above construction site will be authorized **60** business days from **10/13/2011** which is the date we received your final NOI, unless notified differently by the Department.

The permit identification number for this site is: NYR10U836. Be sure to include this permit identification number on any forms or correspondence you send us. When coverage under the permit is no longer needed, you must submit a Notice of Termination to the Department.

This authorization is conditioned upon the following:

1. The information submitted in the NOI received by the Department on **10/13/2011** is accurate and complete.

2. You have developed a Stormwater Pollution Prevention Plan (SWPPP) that complies with GP-0-10-001 which must be implemented as the first element of construction at the above-noted construction site.

3. Activities related to the above construction site comply with all other requirements of GP-0-10-001.

4. Payment of the annual $100 regulatory fee, which is billed separately by the Department in the late fall. The regulatory fee covers a period of one calendar year. In addition, since September 1, 2004, construction stormwater permittees have been assessed an initial authorization fee which is now $100 per acre of land disturbed and $600 per acre of future impervious area. The initial authorization fee covers the duration of the authorized disturbance.

5. When applicable, project review pursuant to the State Environmental Quality Review Act (SEQRA) has been satisfied.

6. You have obtained all necessary Department permits subject to the Uniform Procedures Act (UPA). You should check with your Regional Permit Administrator for further information.

*Note: Construction activities cannot commence until project review pursuant to SEQRA has been satisfied, when SEQRA is applicable; and, where required, all necessary Department permits subject to the UPA have been obtained.

The Department has determined that your SWPPP must be submitted for review. Therefore, please submit a copy of your SWPPP to the NYS DEC Regional Office below within five (5) business days from the receipt of this letter. If the Regional Office determines that the SWPPP is not in conformance with the requirements of GP-0-10-001, they will notify you in writing prior to the permit coverage start date discussed above.

Tamara Venne
NYS Department of Environmental Conservation - Region 5R (E
Route 86, PO Box 296
Raybrook, NY 12977-0296

Should you have any questions regarding any aspect of the requirements specified in GP-0-10-001, please contact Dave Gasper at (518) 402-8114 or the undersigned at (518) 402-8109.

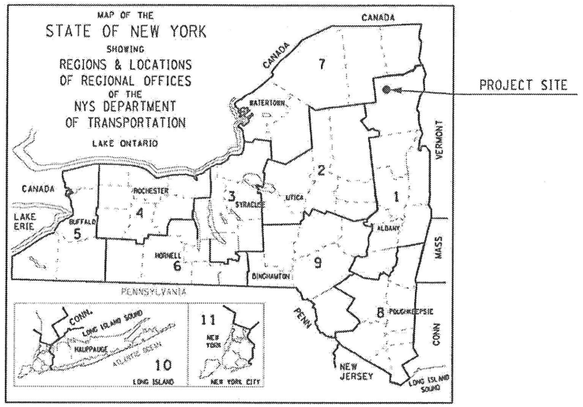
Sincerely,

Toni Cioffi

Toni Cioffi
Environmental Program Specialist 1

cc: RWE - 5R (
SWPPP Preparer

FISHER ASSOCIATES
YATES, RONALD
135 CALKINS ROAD
ROCHESTER NY 14623-



PROJECT LOCATION:

THIS PROJECT IS LOCATED ON OLD MILITARY ROAD (CR 35) IN THE TOWN OF NORTH ELBA AND VILLAGE OF LAKE PLACID, ESSEX COUNTY, NEW YORK, BEGINNING AT A POINT APPROXIMATELY 200 m NORTHWEST OF CAROLYN ROAD AND ENDING AT A POINT APPROXIMATELY 600 m SOUTHEAST OF AVERYVILLE ROAD AND STATION STREET INTERSECTIONS. THE PROJECT INCLUDES REPLACEMENT OF THE STRUCTURE OVER THE CHUBB RIVER. MAINTENANCE AND PROTECTION OF TRAFFIC WILL BE ACCOPMLISHED THROUGH A COMBINATION OFF-SITE DETOUR AND ON SITE STAGED CONSTRUCTION.

TOTAL PROJECT RECONSTRUCTION LENGTH = 2.6 km.

TOTAL PROJECT DRAINAGE IMPROVEMENT LENGTH = 3.0 km.

CONTRACTOR'S NAME _____

AWARD DATE _____

COMPLETION DATE _____

FINAL ACCEPTANCE DATE _____

ENGINEER IN CHARGE _____

FINAL COST TOTAL _____

essex county NY
CELEBRATING 205 YEARS 1789 2004

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

PIN 1754.96

RECONSTRUCTION/REHABILIATION OF
OLD MILITARY ROAD (CR 35) - PHASE I
IN THE VILLAGE OF LAKE PLACID AND
TOWN OF NORTH ELBA
ESSEX COUNTY

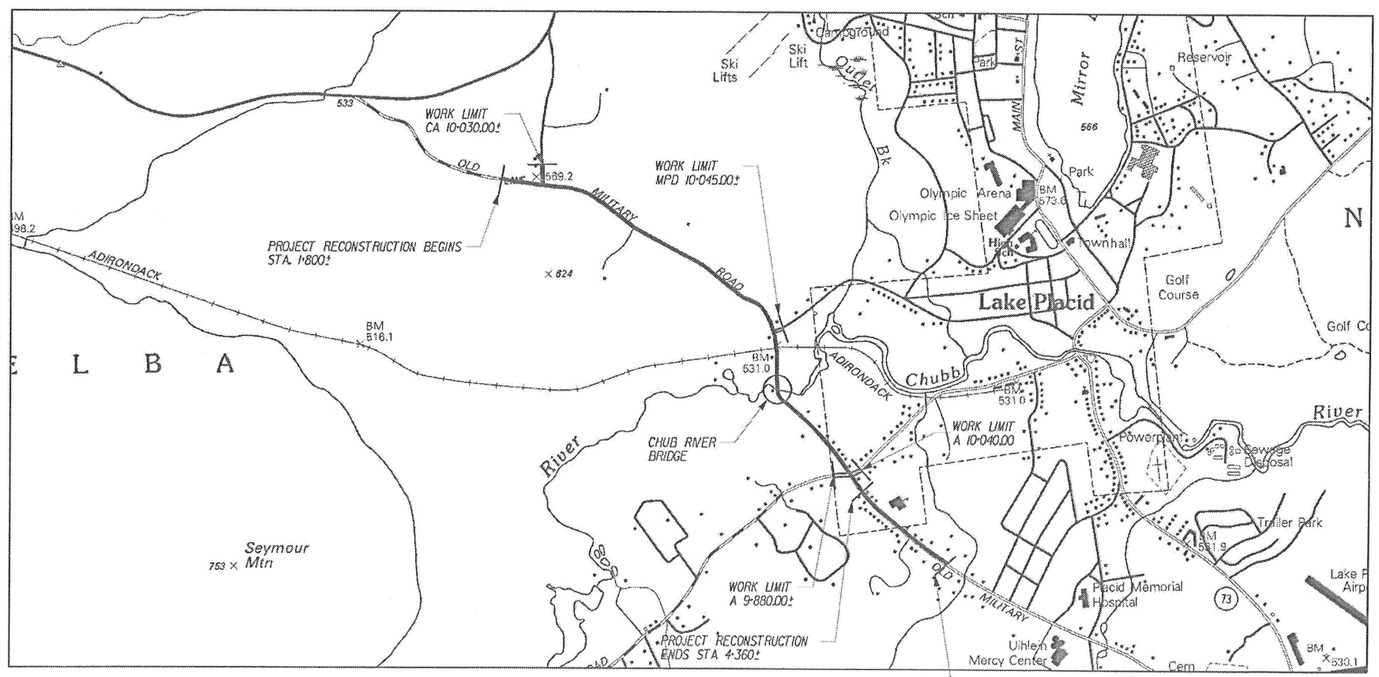
AUGUST 2011

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE NYSDOT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF MAY 4, 2006, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDELINES AND THE FINAL DESIGN REPORT APPROVED ON 11/4/2008.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



PROJECT LOCATION MAP
NOT TO SCALE

PREPARED AND
RECOMMENDED BY:

STATE OF NEW YORK
WARREN T. SHAW
077011
LICENSED PROFESSIONAL ENGINEER

FOIT-ALBERT ASSOCIATES
ARCHITECTURE, ENGINEERING, & SURVEYING, P.C.

RECOMMENDED BY

8-8-11
RANDALL T. DOUGLAS, CHAIRMAN — DATE
ESSEX COUNTY
BOARD OF SUPERVISORS

RECOMMENDED BY

8-8-11
DANIEL L. PALMER, COUNTY MANAGER — DATE
ESSEX COUNTY
BOARD OF SUPERVISORS

8-8-11
ANTHONY J. LaVIGNE, SUPERINTENDENT — DATE
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

OLD MILITARY ROAD (CR 35) - PHASE I			
VILLAGE OF LAKE PLACID			
TOWN OF NORTH ELBA			
ESSEX COUNTY			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	
FEDERAL AID PROJECT NO.			
CAPITAL PROJECT IDENTIFICATION NO.			

INDEX ON SHEET NO. 2

DESIGN SUPERVISOR W. SHAW ___ JOB MANAGER K. BALDWIN ___ DESIGNED BY K. BALDWIN ___ CHECKED BY W.SHAW ___ ESTIMATED BY K. BALDWIN ___ DRAFTED BY B. PARKER ___ CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME =
USER =

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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		2	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ALIGNMENT

ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
℄	BASELINE
BRG	BEARING
℄	CENTERLINE
CS	CURVE TO SPIRAL
e	SUPERELEVATION RATE (CROSS SLOPE)
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
E	CENTER CORRECTION OF VERTICAL CURVE
ML	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPING SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

TOPOGRAPHY (DRAINAGE)

ABBR.	DESCRIPTION
BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CIP	CAST IRON PIPE
℄ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DS	DRAINAGE STRUCTURE PIPE
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELEV	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
HW	HEADWALL
INV	INVERT
MH	MANHOLE
MHW	MEAN HIGH WATER
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE
SICPP	SMOOTH INTERIOR CORRUGATED PE

TOPOGRAPHY (MISCELLANEOUS)

ABBR.	DESCRIPTION
ABUT	ABUTMENT
AOBE	AS ORDERED BY ENGINEER
ASPH	ASPHALT
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
CC	CENTER TO CENTER
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
D	DEED DISTANCE
DM	DIRECT MEASUREMENT
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FEE	FEE ACQUISITION
FEE WO/A	FEE ACQUISITION WITHOUT ACCESS
FP	FENCE POST
FD	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
IP	IRON PIN OR IRON PIPE
MB	MAILBOX
MON	MONUMENT
N&W	NAIL AND WASHER
OG	ORIGINAL GROUND
O/H	OVERHEAD
P	PARCEL
PAV'T	PAVEMENT
PE	PERMANENT EASEMENT
PED POLE	PEDESTRIAN POLE
PL	PROPERTY LINE
POR	PORCH
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
SH	STATE HIGHWAY
SHLDR	SHOULDER
SPK	SPIKE
ST	STREET
STK	STAKE
STY	STORY
SW	SIDEWALK
TE	TEMPORARY EASEMENT
TO	TEMPORARY OCCUPANCY
U/G	UNDERGROUND
WW	WING WALL

UTILITIES

ABBR.	DESCRIPTION
OE	ELECTRIC
EMH	ELECTRIC MANHOLE
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE LINE)
GV	GAS VALVE (MAIN LINE)
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
PP	POWER POLE
SA	SANITARY SEWER
SMH	SANITARY MANHOLE
ST	STORM SEWER
OT	TELEPHONE
OE	OVERHEAD ELECTRIC
OT	OVERHEAD TELEPHONE
TCB	TRAFFIC CONTROL BOX

UTILITIES (CONT'D)

ABBR.	DESCRIPTION
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TMH	TELEPHONE MANHOLE
CTV	CABLE TELEVISION
W	WATER
WSB	WATER SERVICE BOX (HOUSE LINE)
WV	WATER VALVE (MAIN LINE)

SUBSURFACE EXPLORATION

ABBR.	DESCRIPTION
	REPLACE ABBREVIATION "AB" WITH:
AH	HAND AUGER
CP	CONE PENETROMETER
DA	60 mm CASED DRILL HOLE
DM	DRILLING MUD
DN	100 mm CASED DRILL HOLE
FH	HOLLOW FLIGHT AUGER
PA	POWER AUGER
PH	PROBE
PT	PERCOLATION TEST HOLE
RP	25 mm SAMPLER (RETRACTABLE PLUG)
TP	TO BE DEFINED AT THE TIME OF EXPLORATION
SP	SEISMIC POINT
	TEST PIT
	ABBREVIATION "C" IN CATAGORIES: DA, DM, DN, AND FH WITH:
B	BRIDGE
C	CUT
D	DAM
F	FILL
K	CULVERT
W	WALL
X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ETIMATE OF QUANITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
m	M	METER
m^2	SQM	SQUARE METER
m^3	CM	CUBIC METER
km	KM	KILOMETER
ha	HA	HECTARE
kg	KG	KILOGRAM
t OR Mg*	MT	METRIC TON
L	L	LITER
* THE METRIC TON IS EQUIVALENT TO ONE MEGAGRAM (Mg)		

INDEX

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ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INDEX AND ABBREVIATIONS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_IND	ONE	AUGUST 2011	IA-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		3	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED
SURVEY DATA		
COORDINATE GRID		
SPOT ELEVATION	+103.2	
WATER ELEVATION	W.E. + 102.5	
BENCH MARK	B.M. 12	
BASELINE POINT		
PERMANENT SURVEY MARKER		
POINT ON LINE (POL)		
NORTH ARROW (GRID)	NORTH GRID	
NORTH ARROW (MAGNETIC)		
BASELINE		
CENTERLINE		
CONTOURS		
MAJOR ELEVATION CONTOUR	160	160
MINOR ELEVATION CONTOUR		
DEPRESSION	210	
TOPOGRAPHY		
ROCK OUTCROP		
BOULDER		
CUT LIMITS		
FILL LIMITS		
BOUNDARIES		
NATIONAL	CANADA / U.S.A.	
STATE	NEW YORK / PENNSYLVANIA	
COUNTY	BROOME / CORTLAND	
TOWN	TOWN OF DICKINSON / TOWN OF FENTON	
CITY OR VILLAGE	CITY OF BINGHAMTON / PORT DICKINSON	
PUBLIC LAND		
HIGHWAY BOUNDARY		
PROPERTY LINE		
PROPERTY LINE MARKER	I.P.	
EASEMENT LINE		
RIGHT OF WAY LINE & MON.	MON.	MON.
ACCESS INFORMATION	ROW WO/A ROW W/A	ROW WO/A ROW W/A
ACQUISITION INFORMATION		
FEE WITH ACCESS	M-1 P-1 FEE W/A	
PERMANENT EASEMENT	M-1 P-1 PE	
TEMPORARY EASEMENT	M-1 P-1 TE	
TEMPORARY OCCUPANCY	M-1 P-1 TO	

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED
RAILROADS		
RAILROAD (@ > 500 SCALE)		
RAILROAD (@ ≤ 500 SCALE)		
RAILROAD (ABANDONED)		
RAILROAD W/ CATENARY		
RAILROAD W/ELECTRIC RAIL		
RAILROAD GRADE CROSSING GATE		
TREES AND BRUSH		
DECIDUOUS TREE		
CONIFEROUS TREE		
DECIDUOUS BUSH		
CONIFEROUS BUSH		
TREE TO BE REMOVED		
STUMP		
HEDGE		
BRUSH LINE		
WOODED AREA EDGE		
DECIDUOUS TREE ROW		
CONIFEROUS TREE ROW		
FOUNDATION PLANTING		
BUILDING AND SPECIAL SITES		
BUILDING		
BUILDING TO BE DEMOLISHED		
BUILDING UNDER CONSTRUCTION	UC	
UNDERPASS	UNDERPASS	
MAILBOX	MB	MB
POST, FLAGPOLE, PARKING METER	FP	FP
POLE (NON-UTILITY)		
WELL		
WATER LOCATIONS		
STREAM OR RIVER		
WATERFALLS OR RAPIDS		
INTERMITTENT STREAM		
SPRING		
MARSH OR SWAMP		
EDGE OF WATERWAY OR FEATURE		

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED
ROUTE MARKERS		
INTERSTATE	5	5
STATE	5	5
COUNTY	5	5
COUNTY TOURING ROUTE SHIELD	5	5
TOWN	5	5
U.S.	5	5
ROADS		
PAVED ROADWAY		
UNPAVED ROADWAY		
SIDEWALK	SW	SW
CURB/DROP CURB AS EOP		
CHANGE OF PAVEMENT		
FLUSH MEDIAN	FLUSH MEDIAN	
GUIDE RAIL OR BARRIER		
TRAFFIC ATTENUATOR		
BOX BEAM OR "W" BEAM RAIL		
BOX BEAM OR "W" BEAM MED. BARR.		
CABLE GUIDE RAIL		
CONCRETE BARRIER		
RETAINING WALL	RW	RW
FENCE		
GUIDE POSTS		
STONE WALL	0.5 m WALL	0.5 m WALL
BARRICADE		
TRAFFIC CONTROL		
TEMPORARY CONCRETE BARRIER		
TEMPORARY CONCRETE BARRIER LIGHTED		
CONSTRUCTION BARRICADE		
CONST. BARRICADE LIGHTED		
PLASTIC DRUM		
PLASTIC DRUM LIGHTED		
FLASHING ARROW BOARD		
CONE		
FLAGGER		
VARIABLE MESSAGE DISPLAY		VMD
SIGNS AND BILLBOARDS		
SIGN (GROUND MOUNTED)		
SIGN (OVERHEAD)		
BILLBOARD, TWO POST SIGN	BB	BB
NEW SIGN		
SIGN REMOVAL		
RELOCATE TO POSITION SHOWN		
TO REMAIN		

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED
DRAINAGE FACILITIES		
CULVERT		
DRAINAGE STRUCTURE	DS DS	DS DS
GRATE	GRATE	GRATE
DITCH LINE		
PAVED GUTTER	PAVED GUTTER	PAVED GUTTER
HEADWALL		
END SECTION		
RIP-RAP		
SANITARY SEWER	SA	SA
STORM SEWER	ST	ST
PROPOSED DRAINAGE STRUCTURE NUMBER		DS XX
REMOVAL OF EXISTING STRUCTURE		XX
EROSION & SEDIMENTATION CONTROL		
STATE WETLAND		
FEDERAL WETLAND		
STATE/FED WETLAND		
ADJACENT AREA		
HAYBALE/STRAW BALE		
SILT FENCE		
VEGETATION FENCE		
SILT/VEG FENCE		
TURBIDITY CURTAIN		T/C
SEDIMENT TRAP		
CHECK DAM (SILT FENCE)		S/F
CHECK DAM (HAYBALE/STRAWBALE)		H/S
CHECK DAM (STONE)		STO
UTILITY LINES		
UNDERGROUND ELECTRIC	UE	UE
OVERHEAD ELECTRIC	OE	OE
OVERHEAD ELECTRIC TRANSMISSION LINE	OETL	OETL
UNDERGROUND TELEPHONE	UT	UT
OVERHEAD TELEPHONE	OT	OT
UNDERGROUND CABLE T.V.	UCTV	UCTV
OVERHEAD CABLE T.V.	OCTV	OCTV
UNDERGROUND FIBER OPTIC	UFO	UFO
OVERHEAD FIBER OPTIC	OFO	OFO
GAS	G	G
OIL	O	O
WATER	W	W
GEOTECHNICAL		
BORING LOCATION	DNB-1	
SHEET PILING		

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED
UTILITIES ABOVE GROUND		
UTILITY POLE		
UTILITY POLE WITH LIGHT		
GUY WIRE W/ANCHOR		
TRANS. LINE AND TOWERS	OETL	OETL
TRANS. LINE AND POLES		
LIGHT POLE		
PULLBOX STREET LIGHTS	L	L
TRAFFIC SIGNAL POLE		
UTILITY BOX	UB	UB
PULLBOX TRAFFIC SIGNALS	T	T
RR SIGNALS	RR SIGNAL RR XG	RR SIGNAL RR XG
TRAFFIC SIGNAL		
CALL BOX POLICE, FIRE		
TELEPHONE BOOTH	P	P
PAPER BOX		
ELECTRIC METER	E	E
GAS METER	G	G
WATER METER	W	W
FIRE HYDRANT		
GAS LINE MARKER		
GUY WIRE		
WATER MANHOLE	W	W
SANITARY SEWER MANHOLE	S	S
TELEPHONE MANHOLE	T	T
GAS MANHOLE	G	G
MISC. MANHOLE		
WATER VALVE		
UTILITY VALVE		
GAS VALVE		

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SIGNATURE DATE

LEGEND

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPH.LEG	ONE	AUGUST 2011	L-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN CHECKED BY K. BALDWIN
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		4	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	HIGHWAY		BRIDGE		COMBINED	
			QUANTITY	FINAL	QUANTITY	FINAL	QUANTITY	FINAL
201.06	CLEARING AND GRUBBING	LS	NEC		NEC		NEC	
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS			NEC		NEC	
202.19	REMOVAL OF SUBSTRUCTURES	CM			60		60	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	31766		634		32400	
203.03	EMBANKMENT IN PLACE	CM	3900				3900	
203.07	SELECT GRANULAR FILL	CM	6675				6675	
203.21	SELECT STRUCTURE FILL	CM	89		161		250	
206.01	STRUCTURE EXCAVATION	CM	1950		235		2185	
206.02	TRENCH AND CULVERT EXCAVATION	CM	1200				1200	
206.04	TRENCH AND CULVERT EXCAVATION - O.G.	CM	10587		163		10750	
206.05	TEST PIT EXCAVATION	EACH	8				8	
207.20	GEOTEXILE BEDDING	SQM	19817		701		20518	
207.23	GEOTEXTILE SLOPE PROTECTION	SQM	60				60	
207.27	PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN	SQM			225		225	
209.1003	SEED AND MULCH - TEMPORARY	SQM	22000				22000	
209.110102	CHECK DAM (DITCH BOTTOM WIDTH >1.0 TO 2.0 M), STONE-TEMPORA Y	EACH	110				110	
209.13	SILT FENCE-TEMPORARY	M	2040		500		2540	
209.140201	SEDIMENT TRAP, SAND BAG - TEMPORARY	EACH			1		1	
209.140202	SEDIMENT TRAP, SAND BAG - TEMPORARY	EACH			1		1	
209.1501	TURBIDITY CURTAIN	M			120		120	
209.1702	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BEG - TEMPORARY	CM	56				56	
209.200201	ROLLED EROSION CONTROL PRODUCT, CLASS III TYPE B, PERMANENT	SQM	5000				5000	
209.22	CONSTRUCTION ENTRANCE	SQM	490				490	
210.481301	REMOVAL AND DISPOSAL OF MISCELLANEOUS ACM (BV14)	LS			NEC		NEC	
304.12	SUBBASE COURSE, TYPE 2	CM	10750				10750	
402.011902	TYPE 2 F9, ASPHALT-TREATED PERMEABLE BASE COURSE	MT	6625				6625	
402.011912	PLANT PRODUCTION ADJUSTMENT TO 402.011902	QU	332				332	
402.126202	12.5MM F2 TOP COURSE HMA, 60 SERIES COMPACTION	MT	2950				2950	
402.126212	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202	QU	147				147	
402.196902	19MM F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT	3675				3675	
402.196912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902	QU	183				183	
402.376902	37.5MM F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT	7210				7210	
402.376912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902	QU	360				360	
407.0101	TACK COAT	L	15650				15650	
520.5014 08	SAW CUTTING, ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OR ASPHALT OVERLAY ON CONCRETE PAVEMENT	M	1025				1025	
551.11	CAST-IN-PLACE CONCRETE PILES	M			260		260	
551.13	FURNISHING EQUIPMENT FOR DRIVING PILES	LS			NEC		NEC	
551.14	DYNAMIC PILE TESTING	EACH			3		3	
552.13	TEMPORARY STEEL SHEETING	SQM			287		287	
552.16	EXCAVATION PROTECTION SYSTEM	SQM	9000				9000	
553.020001	COFFERDAMS (TYPE 2)	EACH			1		1	

CPM SCHEDULING

THE PURPOSE OF THE COMPUTERIZED CPM SCHEDULE IS TO ENSURE TIMELY COMPLETION OF THE CONTRACT AND TO ESTABLISH A STANDARD METHODOLOGY FOR TIME ADJUSTMENT ANALYSIS BASED ON PRINCIPLES OF THE CRITICAL PATH METHOD OF SCHEDULING. THE CPM SCHEDULE SHALL BE PREPARED BASED ON THE PRINCIPLES DEFINED BY THE LATEST ISSUE OF THE CONSTRUCTION PLANNING & SCHEDULING MANUAL PUBLISHED BY THE AGC OF AMERICA.

PRE CONSTRUCTION MEETING:
THE CONTRACTOR SHALL SUBMIT THE INITIAL BASELINE CPM SCHEDULE FOR THE PROJECT. THIS SCHEDULE SHALL INCLUDE ALL WORK AND ACTIVITIES NECESSARY TO COMPLETE THE PROJECT BY THE COMPLETION DATE. THE INITIAL BASELINE CPM SCHEDULE MUST BE SET UBASELINE CPM SCHEDULE SHALL MEET ALL INTERIM MILESTONE DATES AND NOT EXTEND BEYOND THE COMPLETION DATE.

MINIMUM SCHEDULE REQUIREMENTS:
THE SCHEDULE NETWORK SHALL USE THE PRECEDENCE DIAGRAM METHOD.

THE CALENDAR SHALL SHOW WORKDAYS, HOLIDAY PERIODS, SEASONAL RESTRICTIONS.

EACH ACTIVITY SHALL INDICATE THE DURATION, START, END, CONSTRAINTS & RELATIONSHIPS.

A GANTT CHART STYLE SHALL BE SUPPLIED FOR REVIEW AND COMMENT.

SCHEDULE UPDATES:
THE CONTRACTOR SHALL SUBMIT THE CPM UPDATE BI-WEEKLY. THE UPDATE SHALL DETAIL PROGRESS BASED ON ACTUAL DATES AND DURATIONS FOR ACTIVITIES FOR THIS PERIOD OF TIME. AN ELECTRONIC FILE SHALL BE SUBMITTED FOR EACH UPDATE.

CHANGES TO THE SCHEDULE:
CHANGES TO THE SCHEDULE (ADDITION OR DELETION OF ACTIVITIES, LOGIC CHANGES AND DURATIONS) SHALL BE SUBMITTED THE ENGINEER FOR REVIEW AND INCLUDED IN THE BI-WEEKLY UPDATE. CHANGES TO THE CONTRACT MILESTONES OR CONTRACT MANDATED SCHEDULE PROVISIONS WILL NOT BE PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.

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SIGNATURE DATE

ESTIMATE OF QUANTITIES
SHEET 1 OF 5

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_EOQ	ONE	AUGUST 2011	EQ-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		5	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	HIGHWAY QUANTITY	HIGHWAY FINAL	BRIDGE QUANTITY	BRIDGE FINAL	COMBINED QUANTITY	COMBINED FINAL
553.020002	COFFERDAMS (TYPE 2)	EACH			1		1	
554.40	FILL TYPE RETAINING WALL (0 - 1.8M)	SQM	114				114	
554.41	FILL TYPE RETAINING WALL (GREATER THAN 1.8M - 3.7M)	SQM	561				561	
554.42	FILL TYPE RETAINING WALL (GREATER THAN 3.7M - 5.5M)	SQM	127				127	
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CM	20				20	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CM			120		120	
555.72 16	ARCHITECTURAL PATTERNING OF CONCRETE SURFACES	SQM			102		102	
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG			2507		2507	
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	KG			19761		19761	
557.0109	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM F ORMWORK REQUIRED - TYPE 9 FRICTION	SQM			292		292	
557.2009	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYP E 9 FRICTION	SQM			185		185	
557.30	SIDEWALKS AND SAFETY WALKS	SQM	121				121	
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SQM			340		340	
559.1696 18	PROTECTIVE SEALING OF STRUCTURAL CONCRETE	SQM			152		152	
559.1896 18	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SQM			440		440	
563.02	PRESTRESSED CONCRETE BOX BEAMS UNITS	SQM			143		143	
565.30	RUBBER IMPREGNATED WOVEN COTTON-POLYESTER FABRIC	EACH			18		18	
568.52	STEEL BRIDGE RAILING (FIVE RAIL)	M			59		59	
568.70	TRANSITION BRIDGE RAILING	M			39		39	
603.0101	CULVERT-END SAFETY GRATE	SQM	13				13	
603.171116	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 375 MILLIMETER DIAMETER, 16 GAUGE	EACH	2				2	
603.171216	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 450 MILLIMETER DIAMETER, 16 GAUGE	EACH	3				3	
603.171614	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 750 MILLIMETER DIAMETER, 14 GAUGE	EACH	2				2	
603.171814	GALVANIZED STEEL END SECTIONS-PIPE (68 MM X 13 MM CORRUGATIONS) 900 MILLIMETER DIAMETER, 14 GAUGE	EACH	1				1	
603.6004	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	15				15	
603.6701	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HEIII, 365 MILLIMETER RISE, 575 MILLIMETER SPAN	M	26				26	
603.6704	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE,CLASS HE III, 610 MILLIMETER RISE, 960 MILLIMETER SPAN	M	11				11	
603.6706	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HE III 730 MILLIMETER RISE, 1150 MILLIMETER SPAN	M	13				13	
603.6706 08	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE ENDSECTION, CLASS HE III 730 MM RISE X 1150 MM SPAN	EACH	2				2	
603.7304	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EACH	1				1	
603.77	CONCRETE COLLARS	EACH	2				2	
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIAMETER	M	20				20	
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIAMETER	M	500				500	
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIAMETER	M	760				760	
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIAMETER	M	555				555	
603.9830	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIAMETER	M	10				10	
604.070101	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	1				1	
604.070102	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	1				1	
604.070103	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	1				1	

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SIGNATURE DATE

ESTIMATE OF QUANTITIES
SHEET 2 OF 5

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_EOQ	ONE	AUGUST 2011	EQ-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
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USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		6	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	HIGHWAY		BRIDGE		COMBINED	
			QUANTITY	FINAL	QUANTITY	FINAL	QUANTITY	FINAL
604.070104	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	EACH	5				5	
604.300611	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M	115				115	
604.300673	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M	35				35	
604.301111	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR #11 WELDED FRAME	M	3				3	
604.301172	RECTANDULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M	3				3	
604.311132	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION FOR ROUND MH FRAME	M	7				7	
604.4048	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M	11				11	
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M	5				5	
604.500101	SPECIAL DRAINAGE STRUCTURE	M	2				2	
604.50190108	OFFSET CATCH BASIN	M	3				3	
604.50190208	OFFSET CATCH BASIN	M	2				2	
604.50190308	OFFSET CATCH BASIN	M	2				2	
604.50190408	OFFSET CATCH BASIN	M	2				2	
604.50190508	OFFSET CATCH BASIN	M	3				3	
604.50190608	OFFSET CATCH BASIN	M	3				3	
604.50190708	OFFSET CATCH BASIN	M	3				3	
604.50190808	OFFSET CATCH BASIN	M	3				3	
604.50190908	OFFSET CATCHBASIN	M	2				2	
604.50191008	OFFSET CATCHBASIN	M	2				2	
604.50191108	OFFSET CATCHBASIN	M	2				2	
604.50191208	OFFSET CATCHBASIN	M	2				2	
604.51020215	STORMWATER TREATMENT SYSTEM (SWTS) (MAXIMUM FLOW CAPACITY OF 80 L/SEC)	EACH	1				1	
604.5109 10	FLEXIBLE CHECK VALVE - 450 MM DIAMETER	EACH	2				2	
605.1001	UNDERDRAIN FILTER TYPE 2	CM	1750				1750	
605.1701	OPTIONAL UNDERDRAIN PIPE, 100 MILLIMETER DIAMETER	M	6525				6525	
605.2502 07	PRECAST CONCRETE HEADWALLS FOR 100 mm LATERAL OUTLET PIPES	EACH	22				22	
605.98101818	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MILLIMETERS DIAMETER	M	610				610	
606.10	BOX BEAM GUIDE RAILING	M	204				204	
606.120102	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE I	EACH	4				4	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	4				4	
606.50 06	DECORATIVE TIMBER BARRIER	M	55				55	
607.91 01	ORNAMENTAL METAL FENCE	M	81				81	
607.97 08	REMOVE AND RESET EXISTING FENCE	M	142				142	
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CM	43				43	
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS AND VEGETATION CONTROL STRIPS	MT	400				400	
608.020112	PLANT PRODUCTION QUALITY ADJUSTMENT TO 608.020102	QU	20				20	
608.21	EMBEDDED DETECTABLE WARNING UNITS	SQM	9				9	
608.9401 07	IMPRINTING AND COLORING OF ASPHALT CONCRET PAVEMENT	SQM	156				156	
609.0201	STONE CURB, GRANITE, (TYPE A)	M	580				580	
609.0209 01	GRANITE CURB, TYPE T100	M	70				70	
609.0302	STONE CURB - BRIDGE (TYPE F1)	M			35		35	

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ESTIMATE OF QUANTITIES
SHEET 3 OF 5

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ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_EOQ	ONE	AUGUST 2011	EQ-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		7	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	HIGHWAY		BRIDGE		COMBINED	
			QUANTITY	FINAL	QUANTITY	FINAL	QUANTITY	FINAL
610.0110	APPLYING FERTILIZER	KG	500				500	
610.0203	ESTABLISHING TURF	SQM	19675		475		20150	
610.02030106	WETLAND SEEDING	SQM	350				350	
610.03	ESTABLISHING WILDFLOWERS	SQM	285				285	
611.020133	PLANTING MINOR DECIDUOUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 1.25 METER HEIGHT BALLED & BURLAPPED,NURSERY GRWN	EACH	42				42	
611.020142	PLANTING MINOR DECIDUOUS TREES, 1.5 M HEIGHT, BARE ROOT, NURSERY GROWN, SPRING PLANT	EACH	58				58	
611.030155	PLANTING CONIFEROUS TREE SPECIES, SEE CONTRACT DOCUMENTS, 1.5 METER HEIGHT, CONTAINER GROWN	EACH	23				23	
611.030165	PLANTING CONIFEROUS TREE SPECIES (SEE CONTRACT DOCUMENTS) 1.80 METER HEIGHT, CONTAINER GROWN	EACH	24				24	
611.040123	PLANTING DECIDUOUS SHRUBS SPECIES, SEE CONTRACT DOCUMENTS, 0.4 M HEIGHT/SPREAD, CONTAINER/POT GROWN	EACH	104				104	
611.040142	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.60 METER HEIGHT/SPREAD BALLED & BURLAPPED	EACH	59				59	
611.040143	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.60 METER HEIGHT/SPREAD CONTAINER/POT	EACH	148				148	
611.040152	PLANTING DECIDUOUS SHRUB SPECIES (SEE CONTRACT DOCUMENTS) 0.90 METER HEIGHT/SPREAD BALLED & BURLAPPED	EACH	115				115	
613.01 01	WETLAND TOPSOIL	CM	4750				4750	
613.02	PLACING TOPSOIL-TYPE A	CM	812		48		860	
613.04 01	STOCKPILING AND PLACING STREAMBED MATERIAL	CM	70				70	
614.0313	TREE REMOVAL, UP TO 150 MM DIAMETER, BREAST HIGH, STUMPS CUT 150 MM BELOW GRADE	EACH	2				2	
614.0323	TREE REMOVAL OVER 150 MM TO 300 MM DIAM, BREAST HIGH STUMP CUT 150 MM BELOW GRADE	EACH	2				2	
614.0333	TREE REMOVAL OVER 300 MM TO 450 MM DIAM, BREAST HIGH STUMP CUT 150 MM BELOW GRADE	EACH	11				11	
614.0343	TREE REMOVAL OVER 450 MM TO 600 MM DIAM, BREAST HIGH STUMP CUT 150 MM BELOW GRADE	EACH	2				2	
615.0402 08	TREE/VEGETATION PROTECTION BARRIER	M	4100				4100	
616.08 24	LIVE STAKE PLANTINGS 26MM TO 50MM	EACH	200				200	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	NEC		NEC		NEC	
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	25				25	
619.0801	REMOVE EXISTING PAVEMENT MARKING STRIPES	M	500				500	
619.100101	INTERIM PAVEMENT MARKINGS, STRIPES (TRAFFIC PAINT)	M	5000				5000	
619.110204	PORTABLE, VARIABLE MESSAGE SIGN (PVMS) (LED) (CELLULAR COMMUNICATIONS AND RADAR)	EACH	4				4	
619.1702	TEMPORARY CONCRETE BARRIER, (UNPINNED) WITH WARNING LIGHTS	M	100				100	
619.1704	TEMPORARY CONCRETE BARRIER, (PINNED) WITH WARNING LIGHTS	M	420				420	
619.27	MAILBOXES	EACH	60				60	
620.03	STONE FILLING (LIGHT)	CM	600				600	
620.04	STONE FILLING (MEDIUM)	CM	1750				1750	
620.05	STONE FILLING (HEAVY)	CM			405		405	
621.51 15	GRADING CLEANING AND RESHAPING EXISTING DITCHES	M	28				28	
623.11	CRUSHED GRAVEL (IN-PLACE MEASURE)	CM	580				580	
623.12	CRUSHED STONE, (IN-PLACE MEASURE)	CM	10				10	
624.0109	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS TYPE BB	SQM	2152				2152	
625.01	SURVEY OPERATIONS	LS	NEC		NEC		NEC	
625.05	STEEL PIN AND CAP RIGHT-OF-WAY MARKER	EACH	36				36	
637.03	CONCRETE CYLINDER CURING BOX	EACH			1		1	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

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SIGNATURE DATE

ESTIMATE OF QUANTITIES
SHEET 4 OF 5

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_EOQ	ONE	AUGUST 2011	EQ-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		8	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	HIGHWAY		BRIDGE		COMBINED	
			QUANTITY	FINAL	QUANTITY	FINAL	QUANTITY	FINAL
637.12	ENGINEER'S FIELD OFFICE - TYPE 2	MNTH	15		4		19	
637.21	MOBILE TELEPHONE	DC	2500				2500	
637.26	RAIN GAUGE	EACH	1				1	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	11050		1950		13000	
640.20	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES - 0.51 MM	M	6400				6400	
640.21	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES - 0.51 MM	M	5280				5280	
640.22	WHITE PAINT REFLECTORIZED PAVEMENT LETTERS - 0.51 MM	EACH	4				4	
645.5102	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 2.78 SM WITH Z-BARS	SQM	20				20	
645.5202	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 2.78 SM WITH Z-BARS, HIGH-VISIBILITY SHEETING	SQM	10				10	
645.81	TYPE A SIGN POSTS	EACH	50				50	
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EACH	20				20	
647.01	REMOVAL OF SIGNS - SIZE A (0.0-1.0 SQUARE METERS)	EACH	60				60	
650.1024	TRENCHLESS INSTALLATION OF CASING UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 600MM (600 MM)	M	60				60	
650.2136	TRENCHLESS INSTALLATION OF CASING UNDER RAILROAD WITH A DIAMETER > THAN 600MM AND < OR EQUAL TO 1060MM (900 MM)	M	34				34	
655.0705	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EACH	1				1	
655.0706	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EACH	12				12	
655.1111	WELDED FRAME AND RETICULINE GRATE 11	EACH	59				59	
655.1202	MANHOLE FRAME AND COVER	EACH	22				22	
663.0106	DUCTILE IRON CEMENT LINED WATER PIPE, 6 NPS	M	22				22	
663.0108	DUCTILE IRON CEMENT LINED WATER PIPE, 8 NPS	M	110				110	
663.0112	DUCTILE IRON CEMENT LINED WATER PIPE, 12 NPS	M	505				505	
663.0604	COPPER WATER SERVICE PIPE 1 NPS	M	175				175	
663.1006	RESILIENT WEDGE VALVE & VALVE BOX, 6 NPS	EACH	4				4	
663.1008	RESILIENT WEDGE VALVE & VALVE BOX, 8 NPS	EACH	2				2	
663.1012	RESILIENT WEDGE VALVE & VALVE BOX, 12 NPS	EACH	5				5	
663.1301	HYDRANT	EACH	1				1	
663.1302	HYDRANT	EACH	1				1	
663.1303	HYDRANT	EACH	1				1	
663.1304	HYDRANT	EACH	1				1	
663.2001	IRON WATER MAIN FITTINGS (3 NPS - 8 NPS)	KG	600				600	
663.2002	IRON WATER MAIN FITTINGS (10 NPS - 16 NPS)	KG	3720				3720	
663.2504	WATER SERVICE CONNECTION, 1 NPS	EACH	20				20	
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EACH	18				18	
663.34	ADJUST EXISTING HYDRANT ELEVATION	EACH	2				2	
663.35	ADJUST EXISTING CURB BOX ELEVATION	EACH	5				5	
663.40	DISCONNECT AND CAP EXISTING WATER MAIN	EACH	2				2	
663.4112	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 12 NPS	M	50				50	
663.46	REMOVE AND STORE EXISTING HYDRANT	EACH	3				3	

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	HIGHWAY		BRIDGE		COMBINED	
			QUANTITY	FINAL	QUANTITY	FINAL	QUANTITY	FINAL
664.9408 08	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 8 NPS (GRAVITY)	M	50				50	
697.03	FIELD CHANGE PAYMENT	DC	291769.3		51488.7		343258	
698.04	ASPHALT PRICE ADJUSTMENT	DC	100				100	
698.05	FUEL PRICE ADJUSTMENT	DC	85		15		100	
699.040001	MOBILIZATION	LS	NEC		NEC		NEC	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

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SIGNATURE DATE

ESTIMATE OF QUANTITIES
SHEET 5 OF 5

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

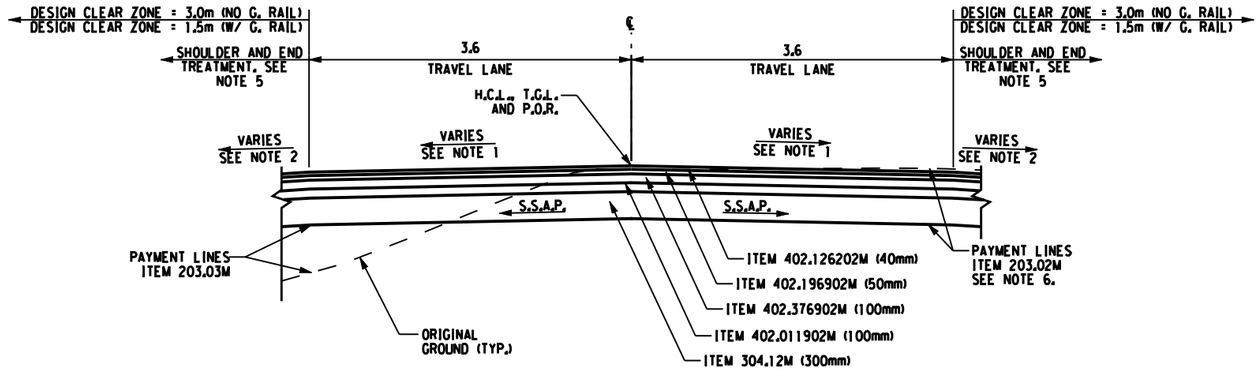
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_EOQ	ONE	AUGUST 2011	EQ-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		9	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

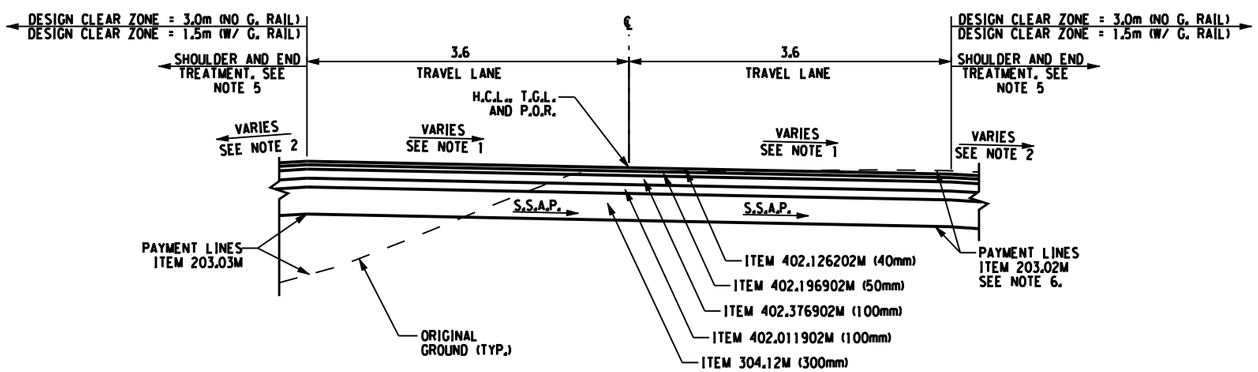


OLD MILITARY ROAD
TYPICAL RECONSTRUCTION SECTION
NORMAL CROWN/TRANSITION

NOT TO SCALE

NOTES:

1. SEE DWG. PR-1 TO PR-23 FOR PAVMENT CROSS SLOPE AND BANKING DIAGRAMS.
2. CROSS SLOPE SHALL BE 6%, EXCEPT WHERE ADJOINING PAVEMENT CROSS SLOPE EXCEEDS 2%. IN THIS CASE, THE ROLLOVER AT THE PAVEMENT SHOULDER JOINT SHALL NOT EXCEED 8%.
3. TACK COAT TO BE PROVIDED BETWEEN EACH PAVEMENT LIFT AT A MIN. RATE OF 0.14 L/m² MIN. OVER NEW PAVEMENT, ITEM 407.0101M.
4. SSAP DENOTES SAME SLOPE AS PAVEMENT.
5. SEE DWGS. GP-1 TO GP-19 FOR SIDESLOPE TREATMENTS, TYPES, AND LOCATIONS. SEE DWG. TS-3, TS-4, & TS-5 FOR SIDESLOPE TYPICAL DETAILS. SEE "MTD" DWGS. FOR TABLE OF SIDESLOPE TREATMENTS.
6. EXISTING PAVEMENT ALONG OLD MILITARY ROAD TO BE REMOVED GENERALLY CONSISTS OF ASPHALT CONCRETE PAVEMENT.
7. ANY DAMAGE TO THE EXISTING PAVEMENT OUTSIDE OF THE PROPOSED CONTRACT LIMITS SHALL BE REPAVED IN-KIND AT THE CONTRACTOR'S EXPENSE.
8. SEE STANDARD SHEET 402-1R1 FOR PAVEMENT TERMINATION DETAIL.



OLD MILITARY ROAD
TYPICAL RECONSTRUCTION SECTION
FULL SUPER ELEVATION - BANKED UP LT SIDE

NOT TO SCALE
MIRROR IMAGE FOR BANKED UP RT SIDE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM			
203.03M	EMBANKMENT IN PLACE	CM			
304.12M	SUBBASE COURSE, TYPE 2	CM			
402.011902M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	MT			
402.011912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.011902	QU			
402.126202M	12.5mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.126212M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202	QU			
402.196902M	19mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.196912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902	QU			
402.376902M	37.5mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.376912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902	QU			
407.0101M	TACK COAT	L			

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SIGNATURE DATE

TYPICAL SECTIONS
SHEET 1 OF 5

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

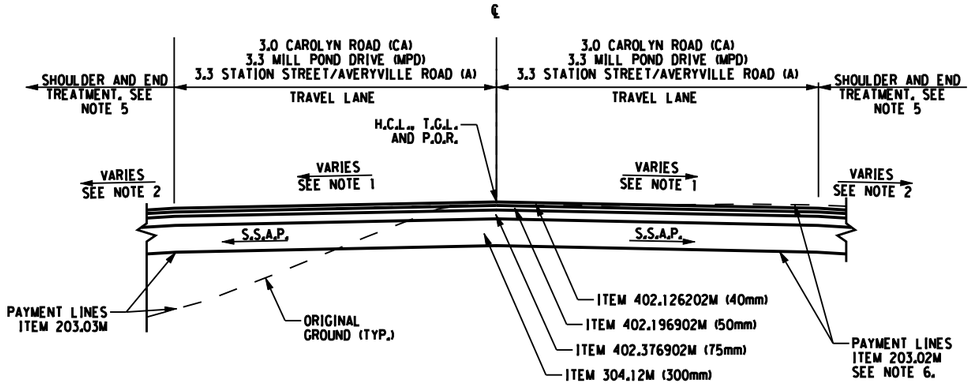
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TYP_01.DGN	ONE	AUGUST 2011	TS-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

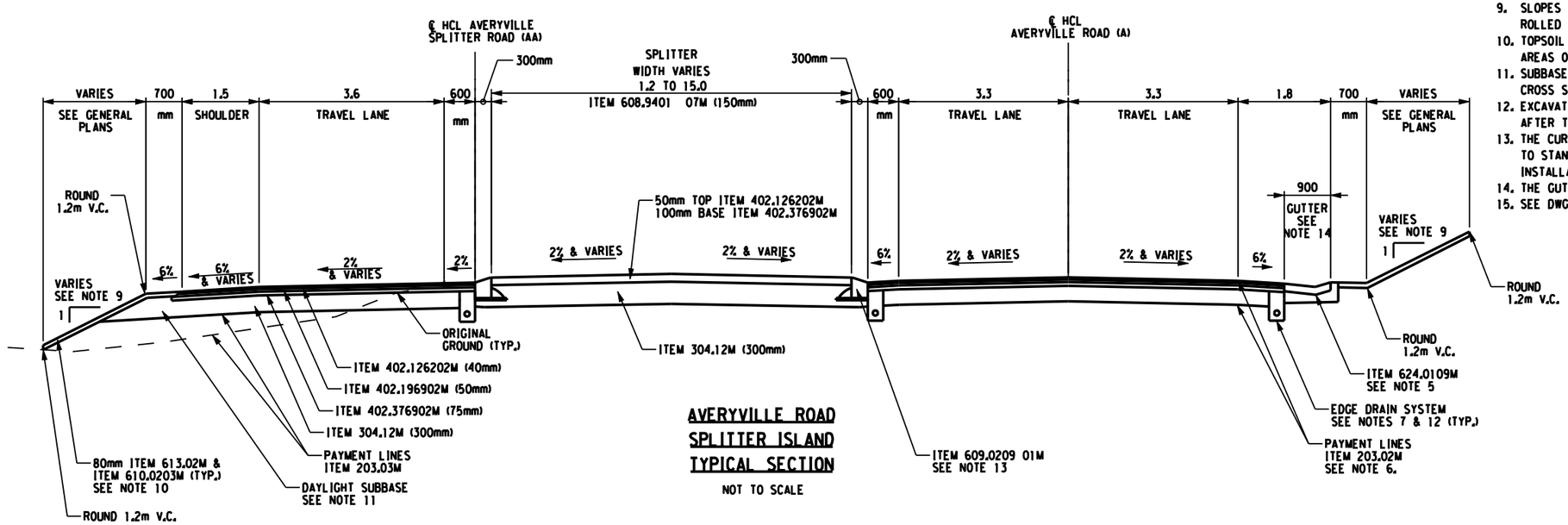
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		10	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SIDE STREET TYPICAL RECONSTRUCTION SECTION

NOT TO SCALE



AVERYVILLE ROAD SPLITTER ISLAND TYPICAL SECTION

NOT TO SCALE

NOTES:

1. SEE DWG. PR-1 TO PR-23 FOR PAVMENT CROSS SLOPE AND BANKING DIAGRAMS.
2. CROSS SLOPE SHALL BE 6%. EXCEPT WHERE ADJOINING PAVEMENT CROSS SLOPE EXCEEDS 2%. IN THIS CASE, THE ROLLOVER AT THE PAVEMENT SHOULDER JOINT SHALL NOT EXCEED 8%.
3. TACK COAT TO BE PROVIDED BETWEEN EACH PAVEMENT LIFT AT A MIN. RATE OF 0.14 L/m² MIN. OVER NEW PAVEMENT, ITEM 407.0101M.
4. SSAP DENOTES SAME SLOPE AS PAVEMENT.
5. SEE DWGS. GP-1 TO GP-19 FOR SIDESLOPE TREATMENTS, TYPES, AND LOCATIONS. SEE DWG. TS-3, TS-4, & TS-5 FOR SIDESLOPE TYPICAL DETAILS. SEE "MTD" DWGS. FOR TABLE OF SIDESLOPE TREATMENTS.
6. EXISTING PAVEMENT ALONG OLD MILITARY ROAD TO BE REMOVED GENERALLY CONSISTS OF ASPHALT CONCRETE PAVEMENT.
7. SEE DWG TS-4 & TS-5 FOR DETAIL OF EDGE DRAIN SYSTEM. SEE "MTD" DWGS. FOR TABLE INDICATING LOCATION OF EDGE DRAIN SYSTEM.
8. ANY DAMAGE TO THE EXISTING PAVEMENT OUTSIDE OF THE PROPOSED CONTRACT LIMITS SHALL BE REPAVED IN-KIND AT THE CONTRACTOR'S EXPENSE.
9. SLOPES STEEPER THAN 1 ON 3 SHOULD BE COVERED WITH A ROLLED EROSION CONTROL PRODUCT, CLASS III, TYPE B, PERMANENT, ITEM 209.200201M.
10. TOPSOIL SHALL BE PLACED FOR RE-ESTABLISHMENT OF LAWN AREAS ONLY OR A.O.B.E.
11. SUBBASE DAYLIGHT AND UNDERDRAIN LOCATIONS VARY. SEE CROSS SECTIONS FOR LOCATIONS.
12. EXCAVATION FOR THE EDGE DRAIN SYSTEM SHALL BE PERFORMED AFTER THE SUBBASE COURSE IS INSTALLED AND COMPACTED.
13. THE CURB IS VERTICAL FACED EXCEPT AT THE AVERYVILLE SPLITTER ISLAND. REFER TO STANDARD SHEETS M609-2R1, M609-3R1 AND M609-4R1 FOR ADDITIONAL CURB INSTALLATION DETAILS.
14. THE GUTTER SHALL BE 1.2m WIDE WHEN TRAVERSING THE DRIVEWAYS.
15. SEE DWG. TS-5 FOR SPECIAL GUTTER DETAIL.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	609.0209 01M	GRANITE CURB, TYPE T100	M
203.03M	EMBANKMENT IN PLACE	CM	610.0203M	ESTABLISH TURF	SM
209.200201M	ROLLED EROSION CONTROL PRODUCT, CLASS III, TYPE B PERM.	SM	613.02M	PLACING TOPSOIL - TYPE A	CM
304.12M	SUBBASE COURSE, TYPE 2	CM	624.0109M	CONVENTIONALLY FORMED OR MACHINE FORMED GUTTERS	SM
402.011902M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	MT			
402.011912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.011901	QU			
402.126202M	12.5mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.126212M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126201	QU			
402.196902M	19mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.196912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196901	QU			
402.376902M	37.5mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.376912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376901	QU			
407.0101M	TACK COAT	L			
608.9401 07M	IMPRINTING AND COLORING ASPHALT PAVEMENT	SM			

Folt-Albert Associates
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Albany, New York 12205

AS BUILT REVISIONS

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TYPICAL SECTIONS
SHEET 2 OF 5

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
=_CPH_TYP_02.DGN	ONE	AUGUST 2011	TS-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
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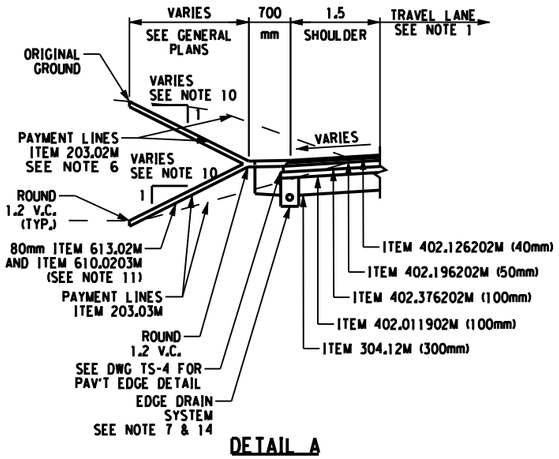
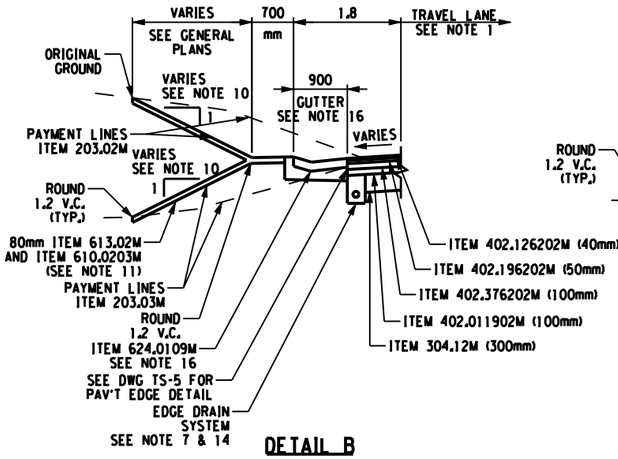
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		11	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



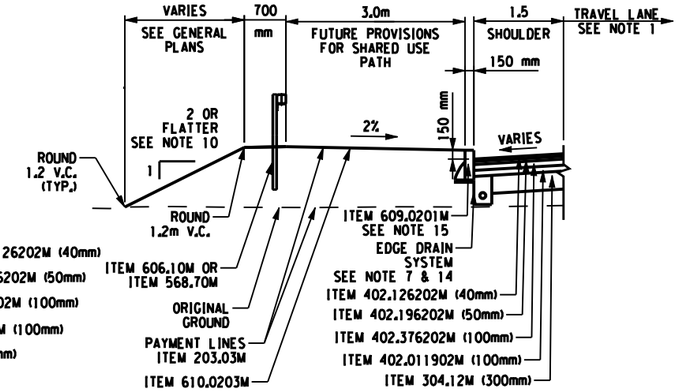
DETAIL A
LEFT SIDE EDGE TREATMENT
NORMAL SECTION

NOT TO SCALE
MIRROR FOR RIGHT SIDE EDGE TREATMENT



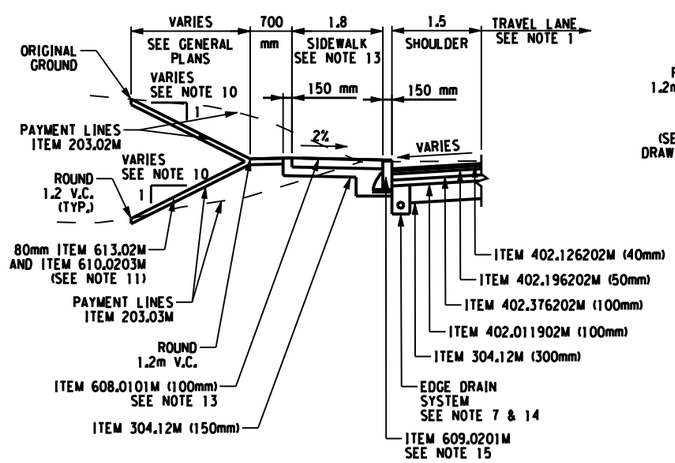
DETAIL B
LEFT SIDE EDGE TREATMENT
ASPHALT CONCRETE GUTTER

NOT TO SCALE
MIRROR FOR RIGHT SIDE EDGE TREATMENT



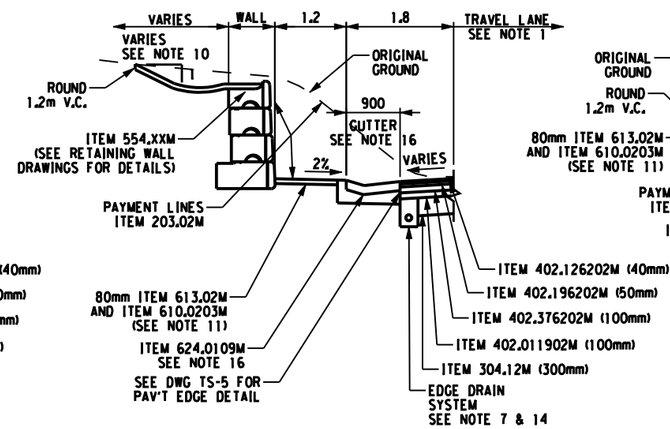
DETAIL C
LEFT SIDE EDGE TREATMENT
FUTURE PROVISIONS FOR SHARED USE PATH

NOT TO SCALE



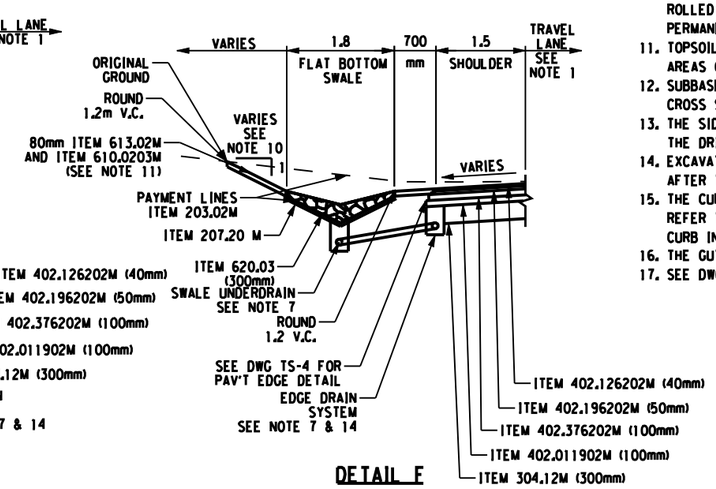
DETAIL D
LEFT SIDE EDGE TREATMENT
SIDEWALK SECTION

NOT TO SCALE



DETAIL E
LEFT SIDE EDGE TREATMENT
RETAINING WALL SECTION

NOT TO SCALE
MIRROR FOR RIGHT SIDE EDGE TREATMENT



DETAIL F
LEFT SIDE EDGE TREATMENT
FLAT BOTTOM SWALE SECTION

NOT TO SCALE
MIRROR FOR RIGHT SIDE EDGE TREATMENT

NOTES:

1. SEE DWG. PR-1 TO PR-23 FOR PAVMENT CROSS SLOPE AND BANKING DIAGRAMS.
2. CROSS SLOPE SHALL BE 6%. EXCEPT WHERE ADJOINING PAVEMENT CROSS SLOPE EXCEEDS 2%. IN THIS CASE, THE ROLLOVER AT THE PAVEMENT SHOULDER JOINT SHALL NOT EXCEED 8%.
3. TACK COAT TO BE PROVIDED BETWEEN EACH PAVEMENT LIFT AT A MIN. RATE OF 0.14 L/m² MIN. OVER NEW PAVEMENT, ITEM 407.0101M.
4. SSAP DENOTES SAME SLOPE AS PAVEMENT.
5. SEE DWGS. GP-1 TO GP-19 FOR SIDESLOPE TREATMENTS, TYPES, AND LOCATIONS. SEE "MTD" DWGS. FOR TABLE OF SIDESLOPE TREATMENTS.
6. EXISTING PAVEMENT ALONG OLD MILITARY ROAD TO BE REMOVED GENERALLY CONSISTS OF ASPHALT CONCRETE PAVEMENT.
7. SEE DWG TS-4 & TS-5 FOR DETAIL OF EDGE DRAIN SYSTEM. SEE "MTD" DWGS. FOR TABLE INDICATING LOCATION OF EDGE DRAIN SYSTEM.
8. ANY DAMAGE TO THE EXISTING PAVEMENT OUTSIDE OF THE PROPOSED CONTRACT LIMITS SHALL BE REPAVED IN-KIND AT THE CONTRACTOR'S EXPENSE.
9. SEE DWGS TS-1 AND TS-2 FOR TRAVEL LANE TREATMENTS.
10. SLOPES STEEPER THAN 1 ON 3 SHOULD BE COVERED WITH A ROLLED EROSION CONTROL PRODUCT, CLASS III, TYPE B PERMANENT, ITEM 209.200201M.
11. TOPSOIL SHALL BE PLACED FOR RE-ESTABLISHMENT OF LAWN AREAS ONLY OR A.O.B.E.
12. SUBBASE DAYLIGHT AND UNDERDRAIN LOCATIONS VARY. SEE CROSS SECTIONS FOR LOCATIONS.
13. THE SIDEWALKS SHALL BE 150mm THICK WHEN TRANSVERSING THE DRIVEWAYS.
14. EXCAVATION FOR THE EDGE DRAIN SYSTEM SHALL BE PERFORMED AFTER THE SUBBASE COURSE IS INSTALLED AND COMPACTED.
15. THE CURB IS VERTICAL FACED EXCEPT AT THE AVERYVILLE ROAD SPLITTER ISLAND. REFER TO STANDARD SHEETS M609-2R1, M609-3R1 AND M609-4R1 FOR ADDITIONAL CURB INSTALLATION DETAILS.
16. THE GUTTER SHALL BE 1.2m WIDE WHEN TRAVERSING DRIVEWAYS.
17. SEE DWG. TS-5 FOR SPECIAL GUTTER DETAIL.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	568.70M	TRANSITION BRIDGE RAIL	M
203.03M	EMBANKMENT IN PLACE	CM	606.10M	BOX BEAM GUIDE RAILING	M
207.20M	GEOTEXTILE BEDDING	CM	608.0101M	CONCRETE SIDEWALKS AND DRIVEWAYS	CM
209.200201M	ROLLED EROSION CONTROL PRODUCT, CLASS III, TYPE B, PERMANANT	SM	609.0201M	STONE CURB GRANITE, (TYPE A)	M
304.12M	SUBBASE COURSE, TYPE 2	CM	610.0203M	ESTABLISHING TURF	SM
402.011902M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	MT	613.02M	PLACING TOPSOIL - TYPE A	CM
402.011912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.011902	QU	620.03M	STONE FILL (LIGHT)	CM
402.126202M	12.5mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	MT	624.0109M	CONVENTIONALLY FORMED OR MACHINE FORMED GUTTERS	SM
402.126212M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202	QU	554.XXM	FILL TYPE RETAINING WALL	SM
402.196202M	19mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.196912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902	QU			
402.376202M	37.5mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.376912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902	QU			
407.0101M	TACK COAT	L			

AS BUILT REVISIONS

SIGNATURE DATE

TYPICAL SECTIONS
SHEET 3 OF 5

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

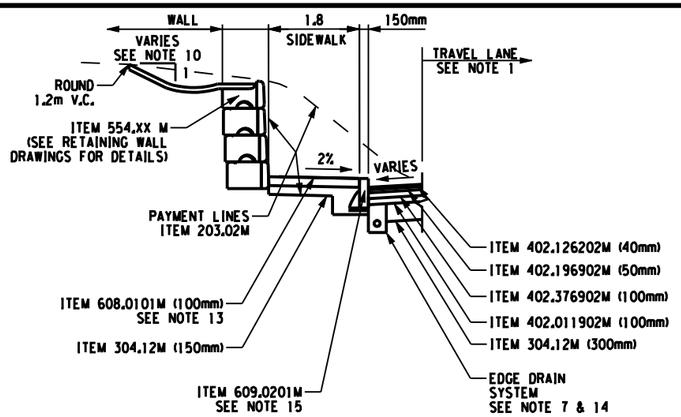
DOCUMENT NAME	REGION	DATE	DRAWING NO.
=_CPH_TYP_03.DGN	ONE	AUGUST 2011	TS-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

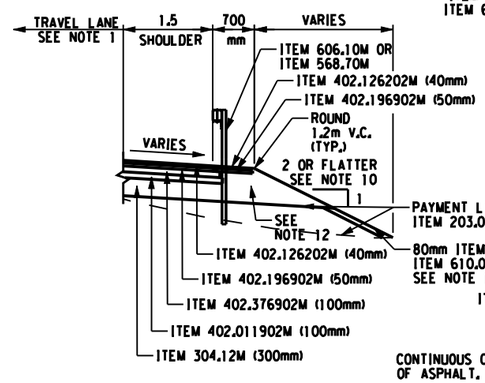
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		12	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



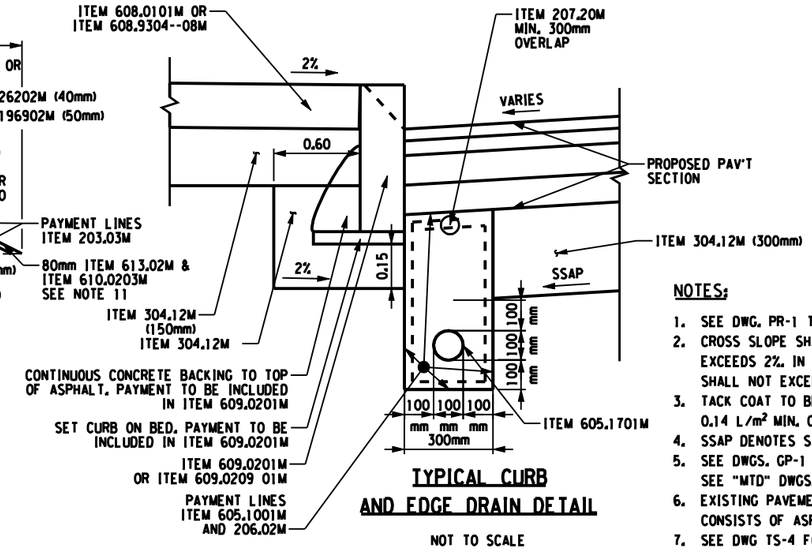
DETAIL G
LEFT SIDE EDGE TREATMENT
RETAINING WALL SECTION

NOT TO SCALE



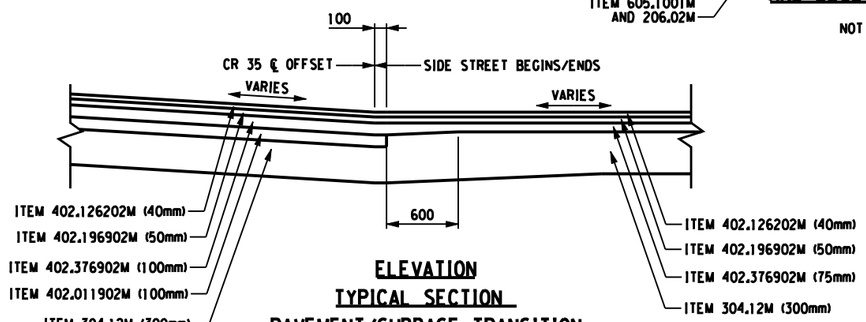
DETAIL H
RIGHT SIDE EDGE TREATMENT

NOT TO SCALE
MIRROR FOR RIGHT SIDE EDGE TREATMENT



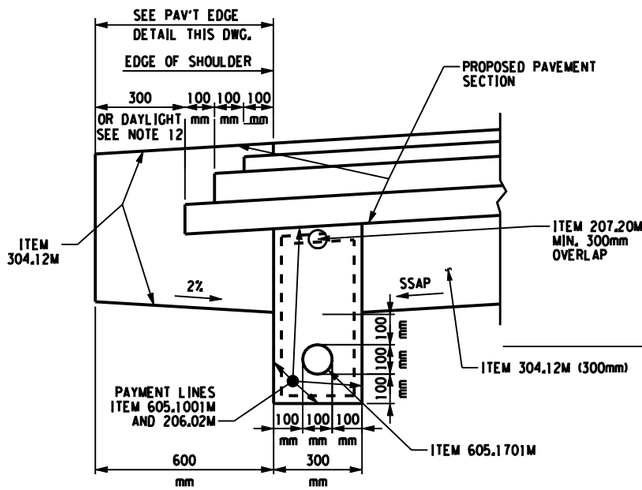
TYPICAL CURB
AND EDGE DRAIN DETAIL

NOT TO SCALE



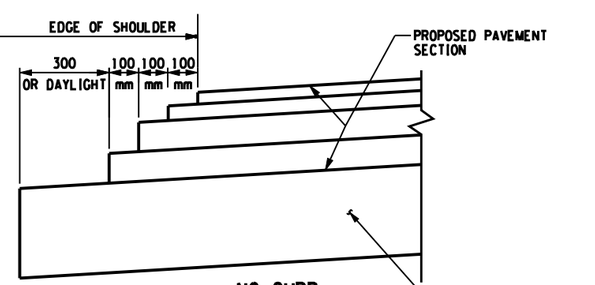
ELEVATION
TYPICAL SECTION
PAVEMENT/SUBBASE TRANSITION

NOT TO SCALE



PAVEMENT EDGE
DRAIN W/O CURBING

NOT TO SCALE



NO CURB
PAVEMENT EDGE DETAIL

NOT TO SCALE

NOTES:

1. SEE DWG. PR-1 TO PR-23 FOR PAVEMENT CROSS SLOPE AND BANKING DIAGRAMS.
2. CROSS SLOPE SHALL BE 6%, EXCEPT WHERE ADJOINING PAVEMENT CROSS SLOPE EXCEEDS 2%. IN THIS CASE, THE ROLLOVER AT THE PAVEMENT SHOULDER JOINT SHALL NOT EXCEED 8%.
3. TACK COAT TO BE PROVIDED BETWEEN EACH PAVEMENT LIFT AT A MIN. RATE OF 0.14 L/m² MIN. OVER NEW PAVEMENT, ITEM 407.0101M.
4. SSAP DENOTES SAME SLOPE AS PAVEMENT.
5. SEE DWGS. GP-1 TO GP-19 FOR SIDESLOPE TREATMENTS, TYPES, AND LOCATIONS. SEE "MTD" DWGS. FOR TABLE OF SIDE SLOPE TREATMENTS.
6. EXISTING PAVEMENT ALONG OLD MILITARY ROAD TO BE REMOVED GENERALLY CONSISTS OF ASPHALT CONCRETE PAVEMENT.
7. SEE DWG TS-4 FOR DETAIL OF EDGE DRAIN SYSTEM. SEE "MTD" DWGS. FOR TABLE INDICATING LOCATION OF EDGE DRAIN SYSTEM.
8. ANY DAMAGE TO THE EXISTING PAVEMENT OUTSIDE OF THE PROPOSED CONTRACT LIMITS SHALL BE REPAVED IN-KIND AT THE CONTRACTOR'S EXPENSE.
9. SEE DWGS TS-1 AND TS-2 FOR TRAVEL LANE TREATMENTS
10. SLOPES STEEPER THAN 1 ON 3 SHOULD BE COVERED WITH A ROLLED EROSION CONTROL PRODUCT, CLASS III, TYPE B PERMANENT, ITEM 209.200201M.
11. TOPSOIL SHALL BE PLACED FOR RE-ESTABLISHMENT OF LAWN AREAS ONLY OR A.O.B.E.
12. SUBBASE DAYLIGHT AND UNDERDRAIN LOCATIONS VARY. SEE CROSS SECTIONS FOR LOCATIONS.
13. THE SIDEWALKS SHALL BE 150mm THICK WHEN TRANSVERSING DRIVEWAYS.
14. EXCAVATION FOR THE EDGE DRAIN SYSTEM SHALL BE PERFORMED AFTER THE SUBBASE COURSE IS INSTALLED AND COMPACTED.
15. THE CURB IS VERTICAL FACED EXCEPT AT THE AVERYVILLE ROAD SPLITTER ISLAND. REFER TO STANDARD SHEETS M609-2R1, M609-3R1 AND M609-4R1 FOR ADDITIONAL CURB INSTALLATION DETAILS.
16. FOR TYPICAL DRIVEWAY RECONSTRUCTION SECTION, SEE"MTD" DWGS.
17. SEE DWG. TS-5 FOR SPECIAL GUTTER DETAIL.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	407.0101M	TACK COAT	L
203.03M	EMBANKMENT IN PLACE	CM	554.XX	FILL TYPE RETAINING WALL, VARIOUS HEIGHTS	SM
206.02M	TRENCH AND CULVERT EXCAVATION	CM	568.70M	TRANSITION BRIDGE RAIL	M
207.20M	GEOTEXTILE BEDDING	CM	605.1001M	UNDERDRAIN FILTER, TYPE II	CM
209.200201M	ROLLED EROSION CONTROL PRODUCT, CLASS III, TYPE B, PERM.	SM	605.1701M	UNDERDRAIN, 100mm DIAMETER	M
304.12M	SUBBASE COURSE, TYPE 2	CM	606.10M	BOX BEAM GUIDE RAILING	M
402.011902M	TYPE 2 F9, ASPHALT TREATED PERMEABLE BASE COURSE	MT	608.0101M	CONCRETE SIDEWALKS AND DRIVEWAYS	CM
402.011912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.011902	QU	608.9304--08M	IMPRINTING AND TEXTURING CONCRETE	SM
402.126202M	12.5mm F2 SUPERPAVE HMA, 60 SERIES COMPACTION	MT	609.0201M	STONE CURB, (TYPE A)	M
402.126212M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202	QU	609.0209 01M	GRANITE CURB, TYPE T100	M
402.196902M	19mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	MT	610.0203M	ESTABLISHING CURB	SM
402.196912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902	QU	613.02M	PLACING TOPSOIL - TYPE A	CM
402.376902M	37.5mm F9 SUPERPAVE HMA, 60 SERIES COMPACTION	MT			
402.376912M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902	QU			

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

AS BUILT REVISIONS

SIGNATURE DATE

TYPICAL SECTIONS
SHEET 4 OF 5

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TYP_04.DGN	ONE	AUGUST 2011	TS-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
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1	N.Y.		13	205

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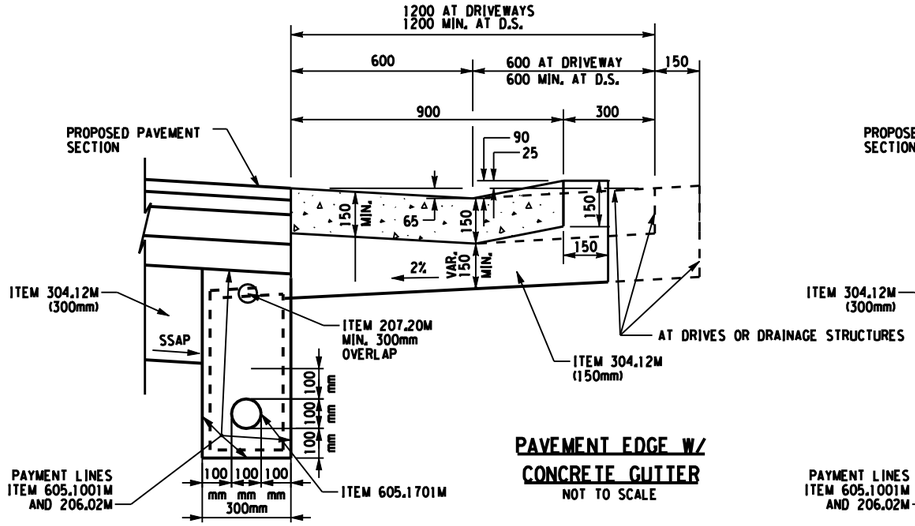
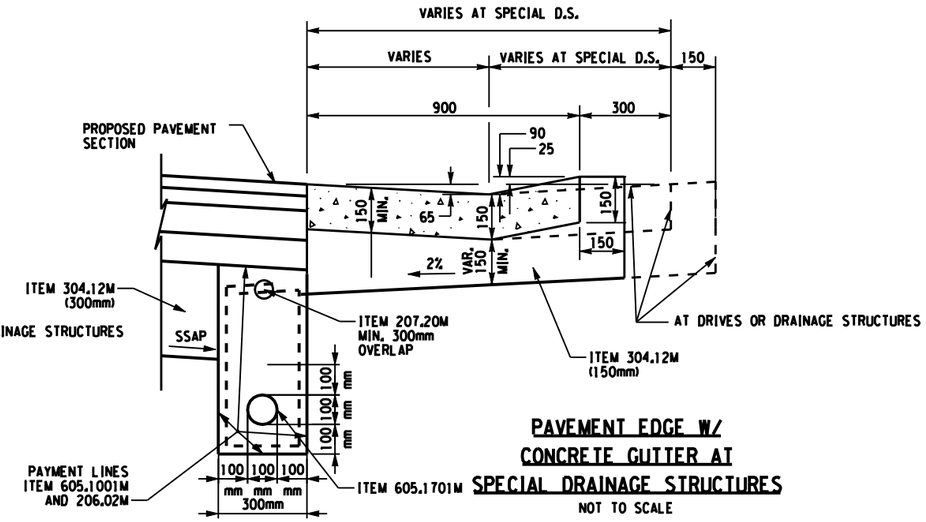


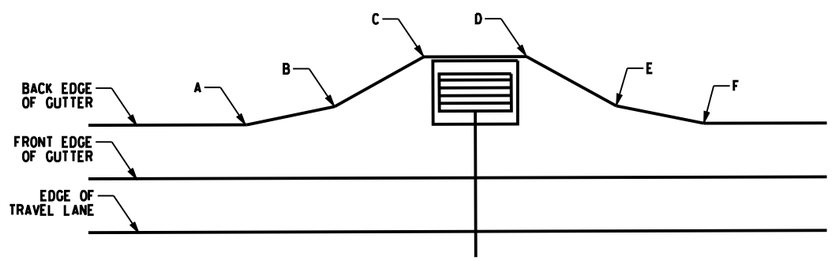
PAVEMENT EDGE W/ CONCRETE GUTTER
NOT TO SCALE



PAVEMENT EDGE W/ CONCRETE GUTTER AT SPECIAL DRAINAGE STRUCTURES
NOT TO SCALE

NOTES:

1. SEE DWG. PR-1 TO PR-23 FOR PAVEMENT CROSS SLOPE AND BANKING DIAGRAMS.
2. CROSS SLOPE SHALL BE 6%, EXCEPT WHERE ADJOINING PAVEMENT CROSS SLOPE EXCEEDS 2%. IN THIS CASE, THE ROLLOVER AT THE PAVEMENT SHOULDER JOINT SHALL NOT EXCEED 8%.
3. TACK COAT TO BE PROVIDED BETWEEN EACH PAVEMENT LIFT AT A MIN. RATE OF 0.14 L/m² MIN. OVER NEW PAVEMENT, ITEM 407.0101M.
4. SSAP DENOTES SAME SLOPE AS PAVEMENT.
5. EXISTING PAVEMENT ALONG OLD MILITARY ROAD TO BE REMOVED GENERALLY CONSISTS OF ASPHALT CONCRETE PAVEMENT.
6. SEE "MTD" DWGS. FOR TABLE INDICATING LOCATION OF EDGE DRAIN SYSTEM.
7. ANY DAMAGE TO THE EXISTING PAVEMENT OUTSIDE OF THE PROPOSED CONTRACT LIMITS SHALL BE REPAVED IN-KIND AT THE CONTRACTOR'S EXPENSE.
8. SEE DWGS TS-1 AND TS-2 FOR TRAVEL LANE TREATMENTS
9. SLOPES STEEPER THAN 1 ON 3 SHOULD BE COVERED WITH A ROLLED EROSION CONTROL PRODUCT, CLASS III, TYPE B PERMANENT, ITEM 209.200201M.
10. TOPSOIL SHALL BE PLACED FOR RE-ESTABLISHMENT OF LAWN AREAS ONLY OR A.O.B.E.
11. SUBBASE DAYLIGHT AND UNDERDRAIN LOCATIONS VARY. SEE CROSS SECTIONS FOR LOCATIONS.
12. EXCAVATION FOR THE EDGE DRAIN SYSTEM SHALL BE PERFORMED AFTER THE SUBBASE COURSE IS INSTALLED AND COMPACTED.
13. FOR TYPICAL DRIVEWAY RECONSTRUCTION SECTION, SEE "MTD" DWGS.



CONCRETE GUTTER (SPECIAL AREAS) LAYOUT
NOT TO SCALE

TABLE OF CONCRETE GUTTER (SPECIAL AREAS)
ITEM 624.0109M

DS	SIDE	A		B		C		D		E		F	
		STA.	OFFSET	STA.	OFFSET	STA.	OFFSET	STA.	OFFSET	STA.	OFFSET	STA.	OFFSET
DS 112B	LT	2+746.169	5.4	2+747.639	5.7	2+749.139	6.53	2+750.861	6.53	2+752.361	5.7	2+753.831	5.4
DS 113B	LT	2+806.315	5.4	2+807.594	5.7	2+809.145	6.53	2+810.853	6.53	2+812.342	5.7	2+813.823	5.4
DS 114B	LT	2+861.212	5.4	2+862.691	5.7	2+864.181	6.53	2+865.889	6.53	2+867.378	5.7	2+868.86	5.4
DS 115B	LT	2+926.176	5.4	2+927.657	5.7	2+929.146	6.53	2+930.854	6.53	2+932.344	5.7	2+933.824	5.4

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
206.02M	TRENCH AND CULVERT EXCAVATION - O.G.	CM			
207.20M	GEOTEXTILE BEDDING	CM			
304.12M	SUBBASE COURSE, TYPE 2	CM			
407.0101M	TACK COAT	L			
605.1001M	UNDERDRAIN FILTER, TYPE II	CM			
605.1701M	UNDERDRAIN, 100mm DIAMETER	M			
624.0109M	CONVENTIONALLY FORMED OR MACHINE FORMED GUTTERS	SM			

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SIGNATURE DATE

TYPICAL SECTIONS
SHEET 5 OF 5

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
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Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

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*_CPH_TYP_05.DGN	ONE	AUGUST 2011	TS-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY

GENERAL NOTES

1. MATERIAL AND CONSTRUCTION SPECIFICATIONS: "STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS". NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) OFFICE OF ENGINEERING, DATED MAY 4, 2006 WITH CURRENT ADDITIONS AND MODIFICATIONS, SHALL BE IN EFFECT FOR THIS PROJECT.

2. CURRENT NATIONAL "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH NEW YORK STATE SUPPLEMENT SHALL BE IN EFFECT FOR THIS PROJECT.

3. THE WORDS "SHALL", "SHOULD", AND "MAY", AS USED IN THE CONTRACT DOCUMENTS, HAVE THE FOLLOWING MEANINGS:

   SHALL - A MANDATORY CONDITION. IN THE DESIGN, APPLICATION, OR LOCATION OF DEVICES REQUIREMENTS HAVING "SHALL" STIPULATIONS ARE MANDATORY. NO DISCRETION IN FOLLOWING THEM IS ALLOWED.

   SHOULD - AN ADVISORY CONDITION. WHERE "SHOULD" IS USED IN RELATION TO A PROVISION, THAT PROVISION IS RECOMMENDED, AND NORMALLY IS TO BE FOLLOWED, BUT IS NOT MANDATORY. DEVIATION FROM SUCH PROVISIONS IS PERMISSIBLE IF, AND TO THE EXTENT, THERE IS JUSTIFIABLE CAUSE TO DO SO.

   MAY - A PERMISSIVE CONDITION. NO REQUIREMENT FOR DESIGN OR APPLICATION IS INTENDED.

4. ADDITIONAL NOTES MAY BE FOUND ON SUBSEQUENT DRAWINGS. SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWING THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.

5. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF THE WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FIELD CONDITIONS AND A.O.B.E.

6. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING CONDITIONS AND DIMENSIONS WITH THOSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS, AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE SO NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL.

7. THERE SHALL BE NO CLAIM AGAINST THE COUNTY BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT.

8. AT ALL TIMES, THE CONTRACTOR SHALL TAKE MEASURES TO PROVIDE POSITIVE DRAINAGE OF SURFACE RUNOFF FROM THE TRAVEL LANES AND CONTROL OF THE RUNOFF TO PREVENT EROSION, POLLUTION, SEDIMENTATION OR OTHER DISCHARGES WHICH WOULD AFFECT PROPERTIES ADJACENT TO THE WORK SITE. ALL MEASURES TAKEN TO PROVIDE POSITIVE DRAINAGE SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.

9. THE CONTRACTOR SHOULD NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR AS ORDERED BY THE ENGINEER AND PAYMENT SHALL BE MADE AT THE BID PRICE FOR THE APPROPRIATE ITEMS.

10. THE CLEARING AND GRUBBING ITEM SHALL CONSIST OF THE REMOVAL OF THE BRUSH AND TREE STUMPS WITHIN THE PROJECT LIMITS WHERE INDICATED ON THE PLANS TO THE 3.0 CLEAR AND A.O.B.E. IN ADDITION, TREE BRANCHES OVERHANGING THE EDGE OF THE PAVEMENT SHALL BE TRIMMED BACK TO PROVIDE A 4.9 METER VERTICAL CLEARANCE. THE COST OF THIS WORK SHALL BE INCLUDED UNDER ITEM 201.06-CLEARING & GRUBBING.

11. NO PAYMENT SHALL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS, IN THE SPECIFICATIONS, OR UNDER THE HEADING GENERAL NOTES UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE CONTRACT.

12. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE PRICE BID FOR THOSE ITEMS.

13. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING OR OTHER DEVICES THAT MAY BE REQUIRED OR THAT MAY BE DIRECTED BY THE ENGINEER TO PROTECT THE SAFETY OF ADJACENT STRUCTURES, ROADWAYS OR THE VARIOUS ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE.

14. PAVED AREAS DISTURBED BY THE CONTRACTOR AS PART OF WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED TO AN ACCEPTABLE CONDITION AS SPECIFIED BY AND SATISFACTORY TO THE ENGINEER.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARDING AND PROTECTING ALL OPEN EXCAVATIONS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 107.05 "SAFETY & HEALTH REQUIREMENTS" OF THE NYSDOT STANDARD SPECIFICATIONS. IN ADDITION, A MINIMUM OF 1-INCH THICK PLATE WILL BE REQUIRED OVER ALL EXCAVATIONS THAT ARE TO BE COVERED (A.O.B.E.). THE PLATES SHALL BE SECURELY FASTENED DOWN TO THE SATISFACTION OF THE ENGINEER AND SHALL BE STRUCTURALLY CAPABLE OF CARRYING ALL IMPOSED LOADS. THE COST SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.

16. PROVISIONS TO DE-WATER EXCAVATIONS, DUE TO CONSTRUCTION OPERATIONS ALONG THE PROJECT MAY BE REQUIRED. THERE SHALL BE NO DIRECT PAYMENT FOR ANY DE-WATERING SYSTEMS. COST SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.

17. THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES, WITHIN THE CONTRACT LIMITS, CLEAN AND FULLY OPERATIONAL AT ALL TIMES (A.O.B.E.). THIS WORK SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.

18. THE CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT AS REQUIRED AND IN ACCORDANCE WITH SECTION 625 OF THE STANDARD SPECIFICATIONS. ANY EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED, DESTROYED, OR REPLACED BY CONSTRUCTION SHALL BE RE-ESTABLISHED BY A LICENSED LAND (L.S.) AT THE CONTRACTORS COST. COST FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 625.01-SURVEY OPERATIONS.

19. THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING TO BECOME FAMILIAR WITH THE PRESENT CONDITIONS AND TO JUDGE THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO INCLUDE IN THE BID ALL ITEMS AND MATERIALS WHICH ARE REQUIRED TO BE FURNISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

20. THE CONTRACTOR SHALL BE REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS.

21. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT WORK IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM, ANY DAMAGE TO THE VARIOUS WATER BODIES FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIALS, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES. COST TO BE INCLUDED IN VARIOUS ITEMS OF THE CONTRACT.

22. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS OR OTHER MATERIAL TO THE AREA BELOW THE STRUCTURE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTION DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.

23. WATERING NEEDED FOR VEGETATION AND OTHER LANDSCAPING ITEMS SHALL BE INCLUDED UNDER EACH RESPECTIVE ITEMS IN THE CONTRACT.

24. DETAILS ON THE DRAWINGS LABELED AS 'NOT TO SCALE' ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONALLY AND ARE FULLY DIMENSIONED.

25. IF THE ENGINEER NOTIFIES THE CONTRACTOR OF AN HAZARDOUS CONSTRUCTION PRACTICE, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMIDIATE ACTIONS SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.

UTILITY NOTES

1. LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED ON THE PLANS AS EXISTING AND/OR TO BE CONSTRUCTED ARE APPROXIMATE ONLY. THEIR EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT CONSTRUCTION OPERATIONS AND TAKE NECESSARY PRECAUTIONS SUCH THAT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION IS PREVENTED. PRIOR TO ANY EXCAVATION, THE CONTRACTOR IS TO CALL DIG SAFELY N.Y. TO HAVE UNDERGROUND UTILITIES LOCATED.

2. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE, CAUSING THE INTERRUPTION IN SAID SERVICE, THE CONTRACTOR SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE WORK UNTIL SERVICE IS RESTORED. ALL COSTS TO REPAIR OR REPLACE DAMAGED UTILITIES SHALL BE AT THE EXPENSE OF THE CONTRACTOR. IF THE CONTRACTOR DOES NOT MAKE IMMEDIATE NECESSARY REPAIRS, THE RESPECTIVE OWNING COMPANIES OR MUNICIPAL FORCES MAY DO THE WORK, AND THE COST THEREOF CHARGED AGAINST THE CONTRACTOR.

3. THE CONTRACTOR SHALL MAKE EXPLORATIONS AS MAY BE NECESSARY TO DETERMINE THE DIMENSIONS AND LOCATIONS OF LINES THAT MAY BE SUBJECT TO DAMAGE. COST TO BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.

4. PRIVATE UTILITY COMPANIES ARE ALSO REQUIRED TO ALTER/RELOCATE THEIR FACILITIES WITHIN THE PROJECT LIMITS. IT IS ANTICIPATED THAT THIS WORK SHALL BE COMPLETED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MAY BE REQUIRED TO LAYOUT THE PROJECT CENTERLINE AND OTHER FEATURES TO PROVIDE THE UTILITY COMPANIES WITH SUFFICIENT INFORMATION TO ALTER/RELOCATE THEIR FACILITIES. THE COST OF THIS WORK SHALL BE INCLUDED UNDER ITEM 625.01.

5. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY FOR PROVIDING RESTRAINTS TO THE EXISTING UTILITY POLES IF REQUIRED WITHIN THE WORK LIMITS, WHILE CONSTRUCTION IS TAKING PLACE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO PERFORM THIS WORK. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS.

6. THE UNDERGROUND UTILITY INFORMATION SHOWN ON THE PLANS IS BASED UPON THE FOLLOWING:

   A. MUNICIPAL & PRIVATE UTILITY LINES (ELEC.TEL.CABLE) - QUALITY LEVEL C.
   B. MUNICIPAL WATER & SANITARY LINES - QUALITY LEVEL C.

7. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND UTILITIES TO REMAIN IN PLACE FROM DAMAGE DURING THE CONSTRUCTION. METHODS OF PROTECTION MAY INCLUDE STEEL PLATES OVER THE UTILITY SO THAT WHEEL LOADINGS FROM CONSTRUCTION VEHICLES DO NOT DAMAGE THE UTILITY. THE COST OF PROVIDING PROTECTION OF UNDERGROUND UTILITIES SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.

8. ALL UTILITY POLES TO BE RELOCATED BY OTHERS SHALL BE APPROVED BY THE ENGINEER OF THEIR NEW LOCATIONS SO THAT THEY DO NOT CONFLICT WITH CONSTRUCTION.

9. REFER TO COORDINATION WITH THE UTILITY SCHEDULE & NOTES PROVIDED IN THE CONTRACT DOCUMENTS.

10. THE EXISTING SANITARY SEWER IS VTP PIPE, EXTREME CAUTION SHALL BE USED IN THE AREAS NEAR EACH SANITARY SEWER PIPE OR SERVICE. ANY DAMAGE TO THE EXISTING SANITARY SEWER SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, INCLUDING ANY AND ALL EQUIPMENT, MATERIALS AND PERSONNEL REQUIRED TO COMPLETE THE REPAIRIN A TIMELY MANNER, TO THE SATISFACTION OF THE ENGINEER AND LOCAL UTILITY. THE REPAIR AND REPAIR OPERATIONS SHALL MEET ALL HEALTH AND SAFETY REQUIREMENTS.

DAMAGE TO EXISTING STRUCTURES OR VEGETATION/SHRUBS

1. NUMEROUS STRUCTURES AND VEGETATION/SHRUBS ARE PRESENT WITHIN THE WORK LIMITS AND ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS NOT TO DAMAGE THESE ITEMS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGED CAUSED BY HIS OPERATIONS TO THE EXISTING STRUCTURES OR MATERIALS WHICH ARE NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING STRUCTURES OR MATERIALS WHICH ARE NOT PART OF THE INTENDED WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHOUT COST TO THE COUNTY AND TO THE SATISFACTION OF THE ENGINEER.

ELECTRICAL SAFETY NOTE

1. HIGH VOLTAGE LINES MAY BE PRESENT WITHIN THE PROJECT LIMITS. REFER TO ELECTRICAL SAFETY NOTE CONTAINED IN THE CONTRACT PROPOSAL FOR SPECIAL CONTRACTOR'S SAFETY REQUIREMENTS.

DRAINAGE NOTES

1. THE CONTRACTOR SHALL BECOME ACQUAINTED WITH THE DRAINAGE CHARACTERISTICS OF THE AREA IN ORDER TO PROGRESS WORK EFFICIENTLY WITH FULL KNOWLEDGE OF THE POTENTIAL DRAINAGE PROBLEMS.

2. TOP OF GRATE OR COVER ELEVATIONS REPRESENT THE TOP CENTER OF THE GRATE OR COVER. THE CONTRACTOR SHALL VERIFY THE GIVEN ELEVATIONS AND NOTIFY THE ENGINEER OF ANY CHANGES REQUIRED TO MEET FIELD CONDITIONS. THE CONTRACTOR SHALL SET COVERS AT FINISHED PAVEMENT GRADE AND GRATES 5 mm BELOW FINISHED PAVEMENT GRADE.

NYSDEC, ACOE, AND APA PERMITS

1. THE CONTRACTOR SHALL COMPLY WITH ANY & ALL PERMIT REQUIREMENTS PROVIDED IN THE CONSTRUCTION DOCUMENTS. COST TO BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.

DRIVEWAYS

1. DRIVEWAYS SHALL BE PAVED IN ACCORDANCE WITH THE DRIVEWAY DETAILS ON MTD-9 OR AOBE. PAYMENT BEYOND THE SHOULDER LIMIT SHALL BE MADE UNDER THE APPROPRIATE PAYMENT ITEM AS SHOWN ON DRAWING MTD-9.

SIGNS

1. WHEN A NEW SIGN IS INSTALLED TO REPLACE AN EXISTING SIGN, THE EXISTING SIGN SHALL BE IMMEDIATELY REMOVED UPON COMPLETION OF THE NEW SIGN INSTALLATION.

MAILBOXES

1. MAILBOXES TO BE MOVED, MAINTAINED, OR REPLACED ARE SHOWN ON THE TABLE OF MAILBOX LOCATIONS (DRAWING NO. MTD-11).

HIGHWAY MAINTENANCE

1. UPON COMPLETION AND ACCEPTANCE OF THIS CONTRACT, THE ROADWAY WILL CONTINUE TO BE MAINTAINED BY THOSE AGENCIES WHICH HAD JURISDICTION PRIOR TO THIS CONTRACT IN ACCORDANCE WITH DWG MJ-1 & MJ-2.

2. REFER TO MAINTENANCE JURISDICTION PLAN ON DWG. MJ-1 & MJ-2.

DISPOSAL OF CONSTRUCTION AND DEMOLITION DEBRIS

1. THERE ARE NO AREAS WITHIN THE CONTRACT LIMITS AVAILABLE FOR DISPOSAL OF CONSTRUCTION DEBRIS.

SALVAGE

1. EXISTING SIGNS, CORRUGATED BEAM GUIDERAIL, STEEL BRIDGE SUPERSTRUCTURE & DRAINAGE PIPE & SUBSTRUCTURE, TO BE REMOVED SHALL BECOME THE PROPERTY OF CONTRACTOR. COST OF REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE RESPECTIVE CONTRACT ITEMS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL NOTES

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_GNN.DGN	ONE	AUGUST 2011	GN-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		15	205
P.I.N. 1754.96				
OLD MILITARY ROAD (CR 35)				
VILLAGE OF LAKE PLACID				
TOWN OF NORTH ELBA				
ESSEX COUNTY				

WORK ZONE TRAFFIC CONTROL NOTES

THE FOLLOWING NOTES SHALL BE FOLLOWED FOR MAINTAINING TRAFFIC AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT, IN ADDITION TO INSTRUCTIONS GIVEN BY THE ENGINEER-IN-CHARGE.

GENERAL

1. TRAFFIC SHALL BE MAINTAINED THROUGH OUT THE DURATION OF THE CONTRACT IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS, MUTCD (LATEST), APPLICABLE STANDARD SHEETS, THE W.Z.T.C. DETAILS INCLUDED IN THESE PLANS, OR AS DIRECTED BY THE ENGINEER-IN-CHARGE.
2. FOR TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREAS NOT SPECIFIED IN THE PLANS, THE PROVISIONS OF THE MUTCD (LATEST) SHALL APPLY. THE STANDARDS OF APPLICATION NOTED THEREIN, AND ON THE PLANS, ARE TO BE CONSIDERED MINIMUM STANDARDS. ADDITIONAL PROTECTION SHALL BE PROVIDED WHEN ORDERED BY THE ENGINEER.
3. PRIOR WRITTEN APPROVAL MUST BE RECEIVED FROM THE ENGINEER TO ALTER PLANS FOR WORK ZONE TRAFFIC CONTROL DURING CONSTRUCTION.
4. SHADOW VEHICLES AND BARRIER VEHICLES SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND APPLICABLE STANDARD SHEETS. COST TO BE INCLUDED IN ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.

PUBLIC INGRESS AND EGRESS

1. THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS A.O.B.E. TO THEIR DRIVEWAYS AND SHALL MAINTAIN THEM THROUGH ALL WORK AREAS AND DELINEATE THEM BY MEANS OF SIGNS, CONES, AND OR DRUMS AOBE. THE COSTS FOR SIGNS SHALL BE INCLUDED IN CONSTRUCTION SIGNS ITEM. THE COSTS FOR ANY OTHER DELINEATION AND GUIDING DEVICES (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.
2. WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH PLANS TO THE ENGINEER FOR APPROVAL. THE HOUSE RESIDENT SHALL HAVE 24 HOURS NOTICE OF ANY CHANGES. COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.
3. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AND FLAGGERS POSTED AT APPROPRIATE LOCATIONS OR AOBE. ALL COSTS INVOLVED SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.

CONSTRUCTION INGRESS AND EGRESS

1. VEHICLES, MATERIALS AND/OR EQUIPMENT, INCLUDING OUT OF SERVICE SIGNS, SHALL NOT BE PARKED OR STORED WITHIN 10 m OF A ROADWAY USED BY THE GENERAL PUBLIC OR ANY OTHER AREAS DEEMED HAZARDOUS BY THE ENGINEER.
2. VEHICLES PARKED BEHIND GUIDE RAIL/BARRIER SHALL BE PARKED BEYOND THE DEFLECTION DISTANCE AND WITHIN THE POINT OF REQUIRED COVERAGE.

FLAGGERS

1. WHEN FLAGGERS ARE BEING USED FOR TRAFFIC CONTROL PURPOSES, FLAGGER SIGNS (W20-7a) SHALL BE PLACED AS SHOWN ON PLANS OR AOBE ON ALL APPROACHES TO THE AREAS BEING FLAGGED. THE COST OF FLAGGER SIGNS SHALL BE INCLUDED IN THE PRICE BID FOR THE CONSTRUCTION SIGNS ITEM. FLAGGER SIGNS SHALL NOT BE USED FOR BRIEF PERIODS OF INCIDENTAL FLAGGING. FLAGGER SIGNS SHALL NOT BE VISIBLE WHEN FLAGGERS ARE NOT BEING USED.
2. STOP/SLOW PADDLES USED AS SIGNALING DEVICES SHALL COMPLY WITH MUTCD, EXCEPT THAT THE MOUNTING HEIGHT SAHLL BE 1.8 METERS MINIMUM. THE COST OF PADDLES AND ALL FLAGGERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.
3. FLAGGERS SHALL NOT POSITION THEMSELVES DIRECTLY IN THE PATH OF ONCOMING TRAFFIC. THE FLAGGER SHOULD STAND EITHER ON THE SHOULDER ADJACENT TO THE TRAFFIC BEING CONTROLLED OR IN THE CLOSED/CHANNELIZED LANE. AT ALL TIMES, THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH A CLEAR ESCAPE PATH, FREE OF PARKED VEHICLES, EQUIPMENT OR OTHER OBSTACLES.
4. THE CONTRACTOR SHALL PROVIDE FLAGGERS WHERE SIGHT DISTANCES ARE IMPAIRED BY THE OPERATION OR IN ANY OTHER SITUATION AOBE.
5. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES, OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF THE ENGINEER DEEMS IT NECESSARY. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.
6. EACH FLAGGER SHALL CONTROL NO MORE THAN ONE APPROACH OF TRAFFIC UNLESS THE APPROACHES PRESENT UNUSUALLY LOW SPEEDS AND/OR UNUSUALLY LOW VOLUMES, WITH ADEQUATE SIGHT DISTANCE FOR THE SAFE HANDLING OF TRAFFIC, AS DETERMINED BY THE ENGINEER.
7. THE CONTRACTOR SHALL DETERMINE THE NUMBER OF FLAGGERS NEEDED FOR EACH WORK ZONE, AS APPROVED BY THE ENGINEER. UNDER CERTAIN GEOMETRIC AND TRAFFIC SITUATIONS, MORE THAN ONE FLAGGER STATION MAY BE REQUIRED FOR EACH DIRECTION OF TRAFFIC. AT TWO WAY, UNUSUALLY LOW-VOLUME AND/OR UNUSUALLY LOW-SPEED SHORT LANE CLOSINGS, WHERE ADEQUATE SIGHT DISTANCE IS AVAILABLE FOR SAFE HANDLING OF TRAFFIC, THE USE OF ONE FLAGGER MAY BE SUFFICIENT. IN THIS SITUATION, A POSITION MAY HAVE TO BE TAKEN OPPOSITE THE WORK TO OPERATE EFFECTIVELY.
8. FLAGGER STATIONS SHOULD BE VISIBLE FAR ENOUGH AHEAD TO PERMIT ALL VEHICLES TO STOP. THE FLAGGER SHOULD BE STATIONED FAR ENOUGH AHEAD OF THE WORK FORCE TO WARN THEM (FOR EXAMPLE WITH HORNS, WHISTLES, ETC.) OF APPROACHING DANGER, SUCH AS VEHICLES OUT OF CONTROL.

TAPER LENGTHS

1. TAPER LENGTHS FOR CLOSURES AND LATERAL SHIFTS OF TRAVEL LANES SHALL CONFORM TO THE FEDERAL MUTCD OR APPLICABLE STANDARD SHEET USING AN APPROACH SPEED OF 70 km/h OR AOBE.

GUIDE RAILING WORK

1. IN THOSE AREAS WHERE GUIDE RAIL IS TEMPORARILY REMOVED FOR THE PURPOSE OF REPLACING OR RESETTING GUIDE RAIL, THE CONTRACTOR SHALL SCHEDULE WORK OPERATIONS SUCH THAT THE GUIDE RAIL PROTECTION SHALL BE RESTORED AS SOON AS POSSIBLE WITHIN A ONE DAY PERIOD. FAILURE TO COMPLY WILL RESULT IN NONPAYMENT FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL FOR EACH CALENDAR DAY. IN ADDITION, LIQUIDATED DAMAGE WILL BE ASSESSED PER THE STANDARD SPECIFICATIONS.
2. ALL FREE ENDS OF GUIDE RAIL SHALL BE TEMPORARILY TERMINATED PER THE STANDARD SPECIFICATIONS. IN STANDARD SPECIFICATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.

DROPOFFS

1. DROPOFFS SHALL BE ADDRESSED IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND APPLICABLE STANDARD SHEET.

PAVEMENT MARKINGS

1. THE COST OF COVERING EXISTING PAVEMENT MARKINGS, WHERE REQUIRED, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.
2. WHERE PAVEMENT MARKINGS ARE COVERED THEY SHALL BE COVERED UTILIZING AN APPROVED PAVEMENT MARKING COVERING TAPE, SPECIFICALLY DESIGNED FOR THE PURPOSE OF COVERING PAVEMENT MARKINGS, AND APPROVED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PROVIDE PAVEMENT MARKINGS AT ALL TIMES ON ALL PAVEMENT, WHETHER EXISTING, TEMPORARY OR NEW, UNTIL PERMANENT MARKINGS ARE INSTALLED OR RESTORED. THIS SHALL INCLUDE AT ALL APPROPRIATE LOCATIONS, EDGE LINES, LANE LINES (SOLID OR BROKEN), CHANNELIZING LINES, DOTTED LINES, PLUS ANY MARKINGS ORDERED BY THE ENGINEER. ALL MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE NYCRR AND SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES. (SEE APPROPRIATE STANDARD SHEETS FOR TYPICAL MARKINGS). THESE MARKINGS SHALL BE PAID FOR AS SHOWN ON THE CONTRACT PLANS.

SIGNS

1. THE CORRECT SEQUENCE AND SPACING OF APPROPRIATE SIGNS, WHETHER PERMANENT, TEMPORARY, OR CONSTRUCTION, MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE MUTCD (LATEST), THE PLANS, APPLICABLE STANDARD SHEETS, SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
2. COLORS USED FOR CONSTRUCTION SIGNING (INCLUDING TEMPORARY OR MODIFIED GUIDE SIGNS) SHALL BE IN ACCORDANCE WITHN THE APPLICABLE STANDARD SHEET.
3. EMERGENCY SERVICE MARKERS, ROUTE MARKERS AND THEIR CORRESPONDING AUXILIARY SIGNS SHALL BE THE COLORS SPECIFIED IN THE MUTCD (LATEST). (ANY AUXILIARY SIGNS WHICH ARE NOT INCLUDED IN THE MUTCD SHALL BE BLACK LEGEND ON ORANGE BACKGROUND). BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED. ANY REGULATORY SIGNS REQUIRED SHALL BE THE COLORS SPECIFIED IN THE MUTCD (LATEST).
4. THE CONTRACTOR SHALL INSTALL GUIDE SIGNS AT THE LIMITS OF THE PROJECT, 'ROAD WORK 1/2 MILE,' OR 'ROAD WORK AHEAD' INITIAL WARNING SIGNS (W20-1) AT ALL RAMPS AND ON ALL SIDE ROADS (EXCEPT DEAD END STREETS) WHENEVER A CONSTRUCTION CONDITION EXISTS AT OR NEAR THE INTERSECTION. SIGN PLACEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARD SHEET. THESE SIGNS SHALL BE COVERED OR REMOVED WHEN THERE IS NO CONSTRUCTION CONDITION IN EFFECT.
5. THE UNEVEN TRANSVERSE PAVEMENT SURFACES, (IE., PAVEMENT REBATES, END OF PAVED OR MILLED SECTIONS) SHALL BE POSTED WITH "BUMP" (W8-1) SIGNS TO BE LOCATED IN ADVANCE OF THE CONDITION. THE "BUMP" (W8-1) SIGNS SHALL BE PLACED ON A TYPE III BARRICADE. A TYPE III BARRICADE W/FLASHING BEACON SHALL BE PLACED AT THE POINT OF NEED.
6. IF ADVANCE SIGNING OBSTRUCTS THE VISIBILITY OF THE FLAGGER OR CONFLICTS WITH DRIVEWAYS OR SIDE ROADS, SIGNS SHOULD BE MOVED UPSTREAM AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL TRIM ANY FOLIAGE OBSTRUCTING THE VISIBILITY OF SIGNS; WHETHER PERMANENT, TEMPORARY, OR CONSTRUCTION, NEEDED FOR THE WORK ZONE TRAFFIC CONTROL AS DETERMINED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFICE CONTROL.
8. ALL SIGNS NECESSARY FOR THE WORK ZONE TRAFFIC CONTROL (INCLUDING RELOCATION AND/OR MODIFICATION AND/OR RESTORATION OF EXISTING SIGN PANEL(S) AS NOTED IN THE PLANS, STANDARD SPECIFICATIONS, NYCRR, OR AOBE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.

MISCELLANEOUS

1. ALL ROADWAY AREAS TEMPORARILY CLOSED FOR TRENCH, CULVERT, OR CONDUIT EXCAVATION SHALL BE REOPENED AT THE END OF THE WORK DAY. AT ALL TIMES WHEN WORK IS NOT IN PROGRESS, ALL OPENINGS IN THE ROADWAY SHALL BE COVERED WITH ANCHORED STEEL PLATES OR SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 203-3.15 TO A DEPTH 75 mm BELOW THE ADJACENT UNEXCAVATED AREA. THE TEMPORARY RESTORATION SHALL BE COMPLETED WITH A LAYER OF PLANT MIX BITUMINOUS MATERIAL UP TO THE LEVEL OF THE ADJACENT UNEXCAVATED AREA TO THE SATISFACTION OF THE ENGINEER. IF ANCHORED STEEL PLATES ARE THE CHOSEN OPTION, THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF ANCHORING THE STEEL PLATES, TO THE ENGINEER, FOR APPROVAL PRIOR TO STARTING ANY ROADWAY EXCAVATION. THE STEEL PLATES SHALL BE RAMPED WITH A BITUMINOUS MATERIAL PRIOR TO OPENING THE LANE. THE COST OF THIS WORK, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND ANY RE-EXCAVATION OF TEMPORARILY RESTORED AREAS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 M, BASIC WORK ZONE TRAFFIC CONTROL.
2. WORK ZONE TRAFFIC CONTROL IS CONSIDERED SPECIAL/SKILLED WORK, AND ALL PROVISIONS OF SPECIFICATIONS SHALL APPLY. A PERSON SHALL BE DESIGNATED AS THE PROJECT TRAFFIC CONTROL SUPERVISOR. THIS PERSONS NAME AND EXPERIENCE SHALL BE DOCUMENTED TO THE ENGINEER.
3. DURING THE WINTER SHUTDOWN, ALL ROADS WILL BE PAVED, DRAINAGE IN-PLACE AND FUNCTIONING, AND ALL APPROPRIATE SIGNAGE IN-PLACE. NO DETOURS WILL BE ALLOWED OVER THE WINTER SHUTDOWN.
4. ITEM 619.110202M - PORTABLE, VARIABLE MESSAGE SIGN (PVMS) LED
   THE CONTRACTOR SHALL RELOCATE OR REORIENT PVMS'S ON A DAILY BASIS OR MORE FREQUENTLY, IF NECESSARY, AS CONDITIONS DICTATE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL SUPPLY THE ENGINEER WEEKLY WITH AN ACCURATE LOG OF THE LOCATION OF PVMS'S, TEXT OF ALL MESSAGES AND TIMES MESSAGES WERE DISPLAYED. THE MESSAGE LOG MAY BE EITHER A LISTING IN A MANUAL REGISTER OR PRINTOUTS FROM THE CONTROL SOFTWARE.
   THE CONTRACTOR SHALL INFORM THE ENGINEER OF PVMS LOCATIONS AND UPDATE AS THEY ARE RELOCATED AND REMOVED.
5. ALL"WORK ZONE TRAFFIC CONTROL" STANDARD SHEETS IN EFFECT ON THE DATE OF CONTRACT BID OPENING MAY BE APPLICABLE TO THE TRAFFIC CONTROL NECESSARY FOR THE PROJECT. THE CONTRACTOR SHALL DETERMINE THE TRAFFIC CONTROL NECESSARY FOR THE ANTICIPATED WORK AND CONFIRM THE DECISION WITH THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE TRAFFIC CONTROL INSTITUTED FOR ANY GIVEN CONSTRUCTION OPERATION.

LANE CLOSURES

1. THE MINIMUM WIDTH OF ALL TRAVEL LANES AT ALL TIMES SHALL BE 3.0 m UNLESS OTHERWISE SHOWN.
2. THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES IN EACH DIRECTION ARE OPEN WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN. NO WORK REQUIRING THE CLOSING OF LANES WILL BE PERMITTED ON THE FOLLOWING HOLIDAYS:

MAY 25 TO MAY 29, 2012	MEMORIAL DAY
JUNE 10 TO JUNE 13, 2012	LAKE PLACID MARATHON
JUNE 24 TO JULY 10, 2012	HORSE SHOW
JUNE 29 TO JULY 4, 2012	INDEPENDENCE DAY
JULY 24, 2012	IRON MAN
AUGUST 31 TO SEPT. 3, 2012	LABOR DAY
NOV. 23 TO NOV. 27, 2012	THANKSGIVING DAY

   CLOSURES FOR 2013 WILL BE THE SAME GENERAL WEEKS AS 2012, BUT ACTUAL DATES TBD
3. WHEN LANE CLOSURES ARE UTILIZED THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC DURING OFF PEAK HOURS.
4. THE CONTRACTOR SHALL COORDINATE WORK SO THERE IS NO CONFLICT IN CONSTRUCTION SIGNING IN OVERLAPPING WORK AREAS AND SO THAT LANE CONTINUITY IS MAINTAINED BETWEEN WORK AREAS.

WORK AREA COORDINATION

1. THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY UTILITY WORK, SUBCONTRACTOR WORK, PUBLIC MAINTENANCE OPERATIONS, OR OTHER CONSTRUCTION ACTIVITIES IN THE AREA, TO ENSURE THAT THERE ARE NO CONFLICTS.
2. ALL VEHICLES, EQUIPMENT, WORKERS, AND TEMPORARY TRAFFIC CONTROL ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME.

PRELIMINARY WORK

1. PRIOR TO THE START OF ANY CONSTRUCTION PHASE ALL WORK ZONE TRAFFIC CONTROL RELATED WORK FOR THAT PHASE, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETE AND ACCEPTABLE. THIS SHALL INCLUDE, WHERE APPICABLE, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS ETC.) PAVEMENT MODIFICATION AND ANY OTHER RELATED WORK. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL APPROVAL OF THE WORK ZONE TRAFFIC CONTROL IS GRANTED BY THE ENGINEER.

CHANNELIZING DEVICES

1. ALL CONES, DRUMS, MARKERS AND BARRICADES ARE TO BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE STANDARD SHEETS.

OLD MILITARY ROAD DETOUR

1. THE CONTRACT PROVIDES FOR THE CLOSING OF OLD MILITARY ROAD DURING THE RECONSTRUCTION OF THE "RICKY" HILL AREA STA 1+800± TO 3+300±. THE DETOUR WILL UTILIZE MILL POND DRIVE TO WEST VALLEY ROAD TO NYS ROUTE 86 (SARANAC AVE) FOR NON-COMMERCIAL TRAFFIC. COMMERICAL TRAFFIC WILL BE REQUIRED TO USE NYS ROUTE 73 AND 86. SEE DRAWING NO. TCP-3A THRU TCP-3D.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ESSEX COUNTY OFFICIALS IN WRITING AT LEAST ONE MONTH IN ADVANCE AS TO WHEN HE WISHES TO UTILIZE THE DETOUR. THE DETOUR MUST BE REMOVED PRIOR TO THE BEGINING OF THE MEMORIAL DAY WEEKEND (MAY 28) AND SHALL CONFORM TO THE SPECIAL PROVISIONS AS OUTLINED IN THE CONTRACT PROPOSAL. THE COST OF PLACING THE NECESSARY SIGNAGE AND MAINTAINING THE DETOUR SHALL BE INCLUDED IN ITEM 619.01M - BASIC WORK ZONE TRAFFIC CONTROL.
3. SEE DWG TCP-3A THRU TCP-3F FOR PLAN AND ADDITIONAL NOTES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WORK ZONE TRAFFIC CONTROL
GENERAL NOTES

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_01.DGN	ONE	AUGUST 2011	TCP-1

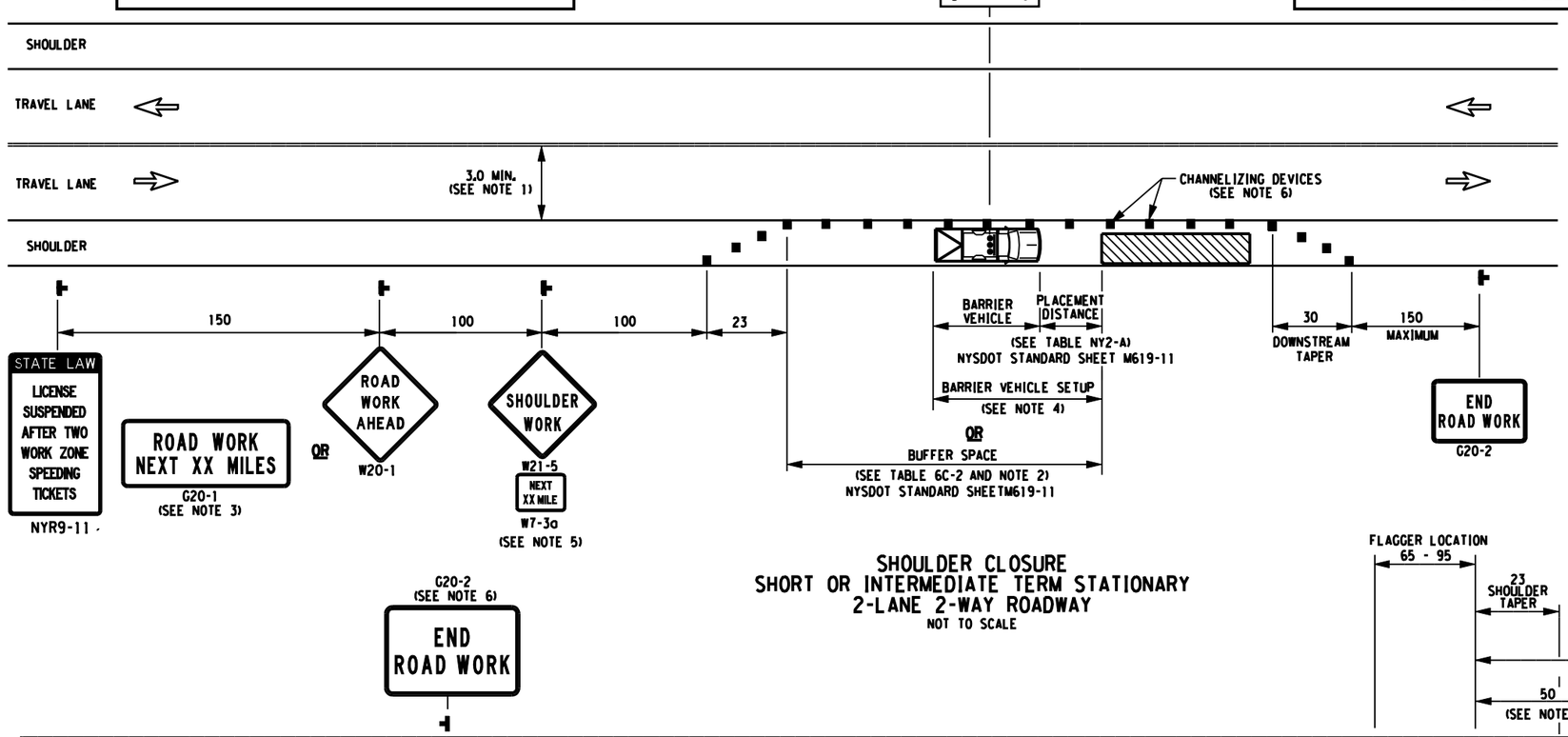
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		16	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

FOR ADDITIONAL DETAILS
REFER TO NYSDOT 619 STANDARD SHEETS

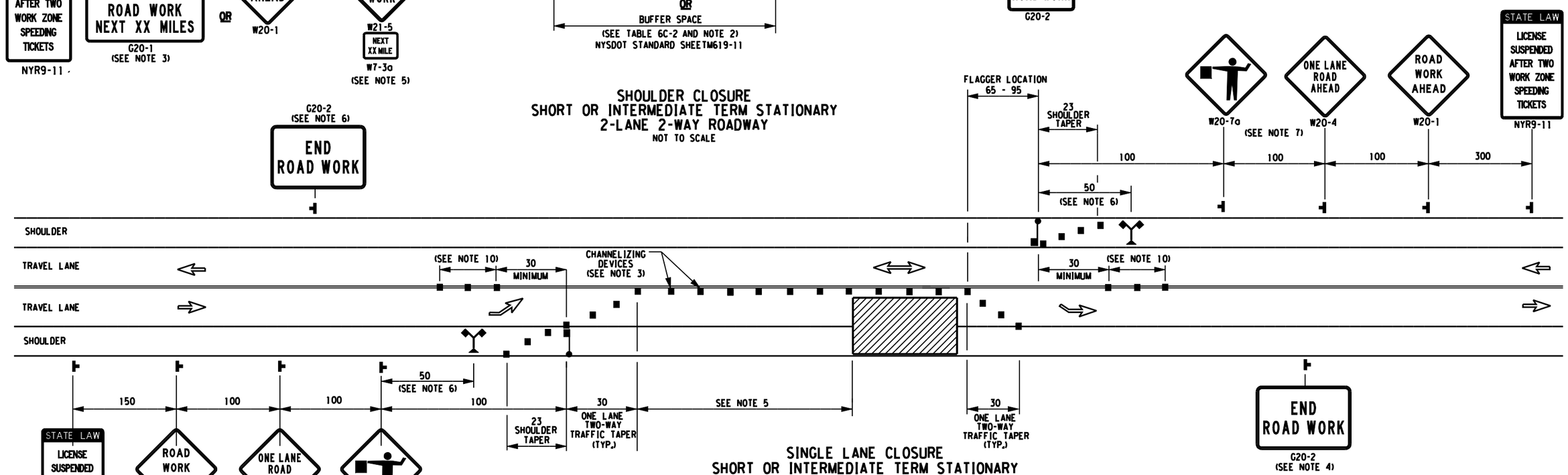
DESIGN SPEED BASED UPON 70 KM/H (45 MPH)
POSTED SPEED LIMIT



SHOULDER CLOSURE
SHORT OR INTERMEDIATE TERM STATIONARY
2-LANE 2-WAY ROADWAY
NOT TO SCALE

NOTES:

1. WHEN THE MINIMUM LANE WIDTH OF 3.0 m CANNOT BE MAINTAINED DUE TO A SHOULDER CLOSURE, USE THE DETAIL FOR SHORT OR INTERMEDIATE TERM STATIONARY FLAGGING OPERATION. (SEE DETAIL BELOW)
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. THE ROAD WORK NEXT XX MILES SIGN (G20-1) MAY BE USED INSTEAD OF THE ROAD WORK AHEAD SIGN (W20-1) IF WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 3.2 km.
4. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE LEGEND AND TABLES DRAWING (M619-11).
5. IN SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 8 km.
6. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 12 m IN THE ACTIVE WORK SPACE.



SINGLE LANE CLOSURE
SHORT OR INTERMEDIATE TERM STATIONARY
LANE CLOSURE ON 2-LANE 2-WAY ROADWAY
NOT TO SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
2. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 12 m IN THE ACTIVE WORK SPACE.
4. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 150 m PAST THE END OF THE WORK SPACE.
5. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
6. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY 1/2 THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
7. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
8. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
9. ALL FLAGGERS SHALL USE 600 mm (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 1.8 m STAFF.
10. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

AS BUILT REVISIONS

SIGNATURE DATE

WORK ZONE TRAFFIC CONTROL
SHOULDER AND LANE CLOSURE DETAILS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

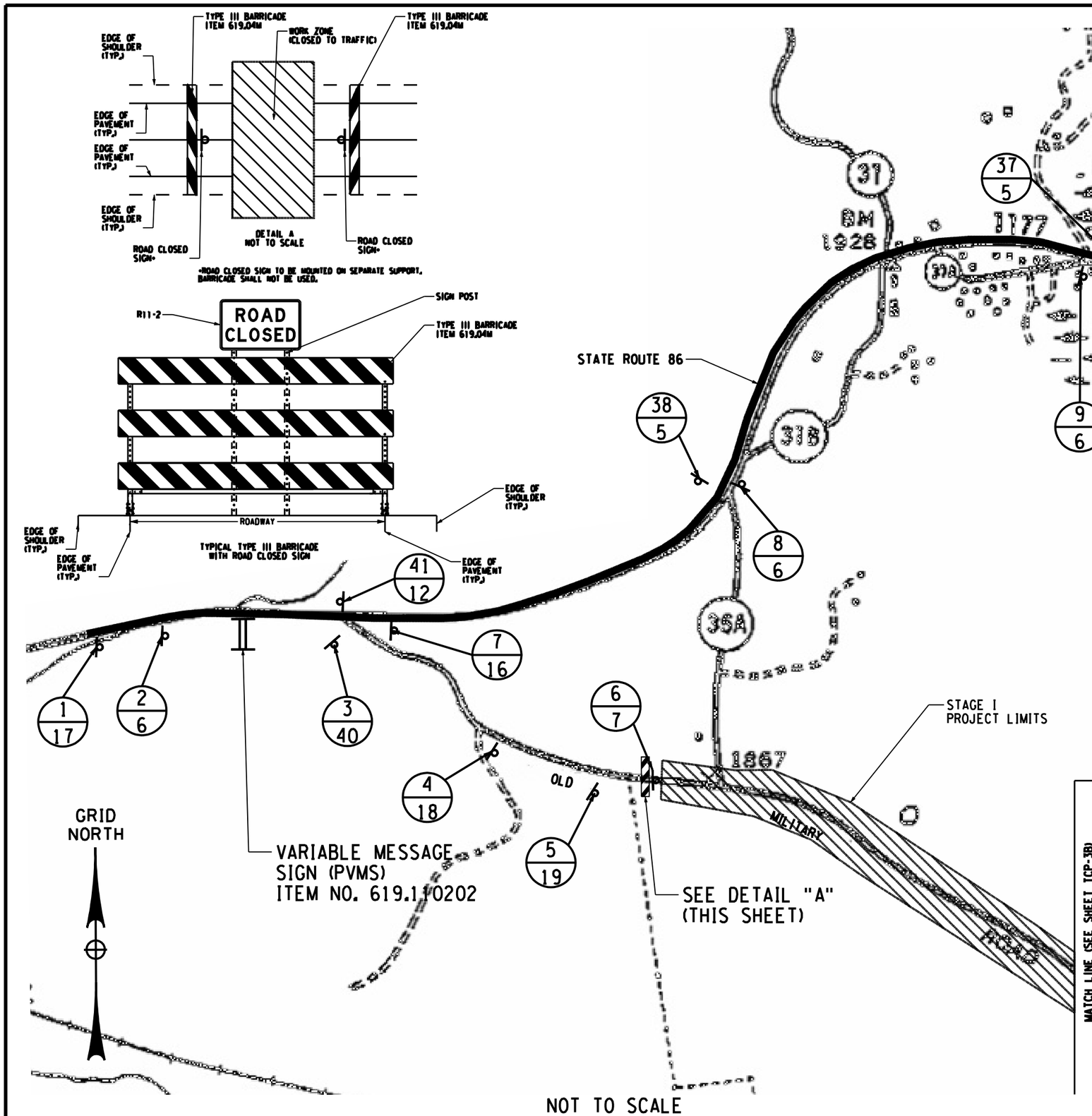
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_02.DGN	ONE	AUGUST 2011	TCP-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		17	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOT TO SCALE

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SIGNATURE DATE

PASSENGER VEHICLES DETOUR

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Hanover Square, 435 New Karner Road
Albany, New York 12205

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ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_03.DGN	ONE	AUGUST 2011	TCP-3A

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FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		18	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
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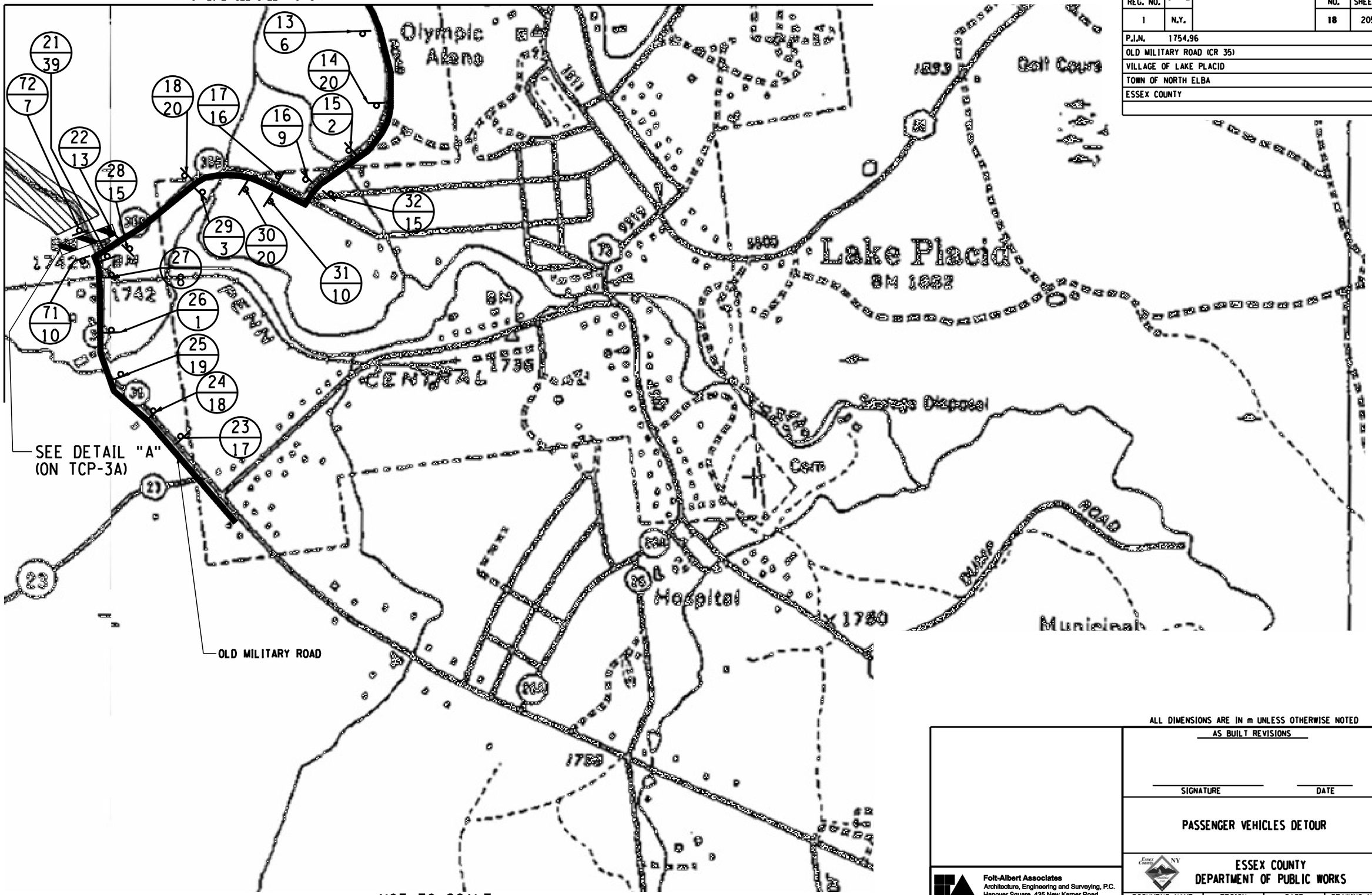
ESSEX COUNTY



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SIGNATURE DATE

PASSENGER VEHICLES DETOUR

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Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_03.DGN	ONE	AUGUST 2011	TCP-3B

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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DATE/TIME = AUGUST 25, 2011
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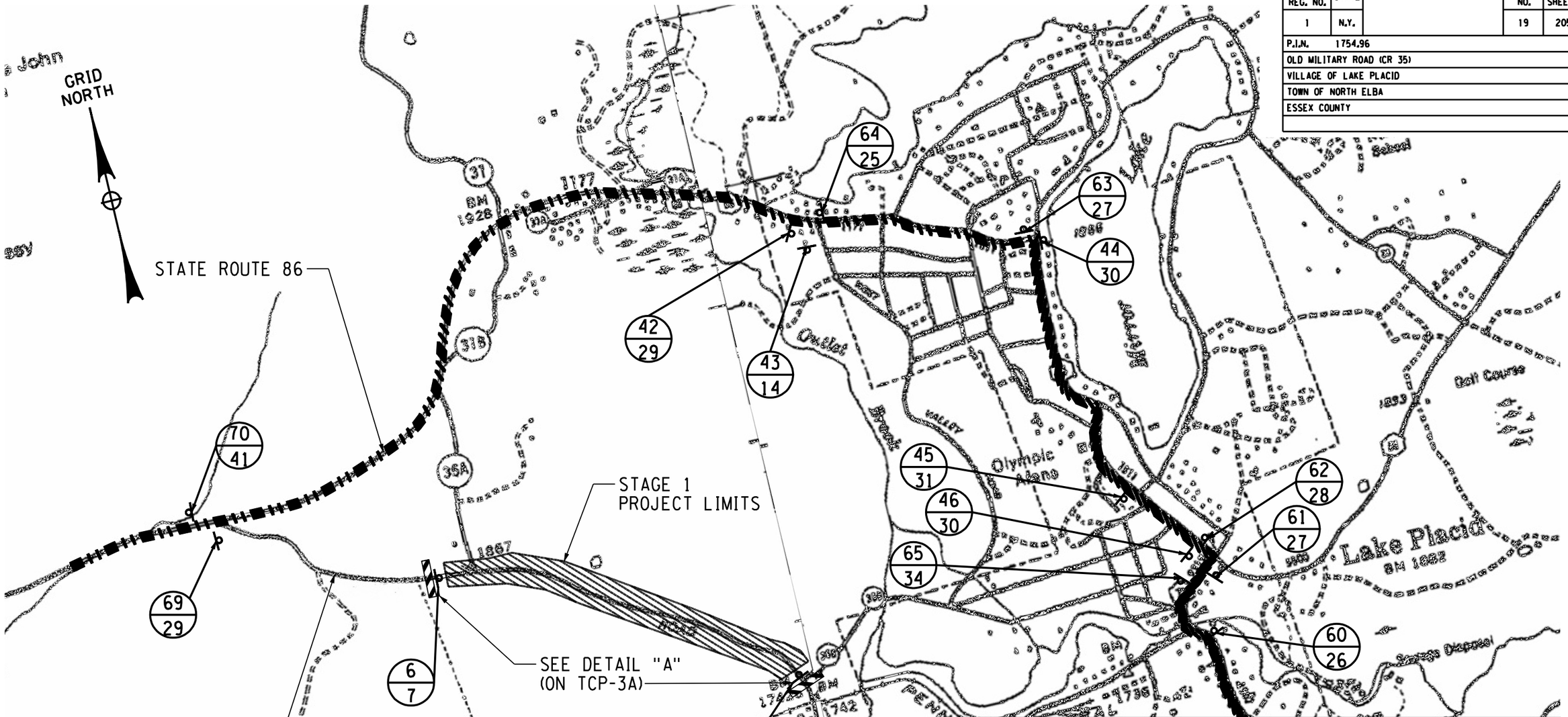
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		19	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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SIGNATURE DATE

TRUCK DETOUR

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Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

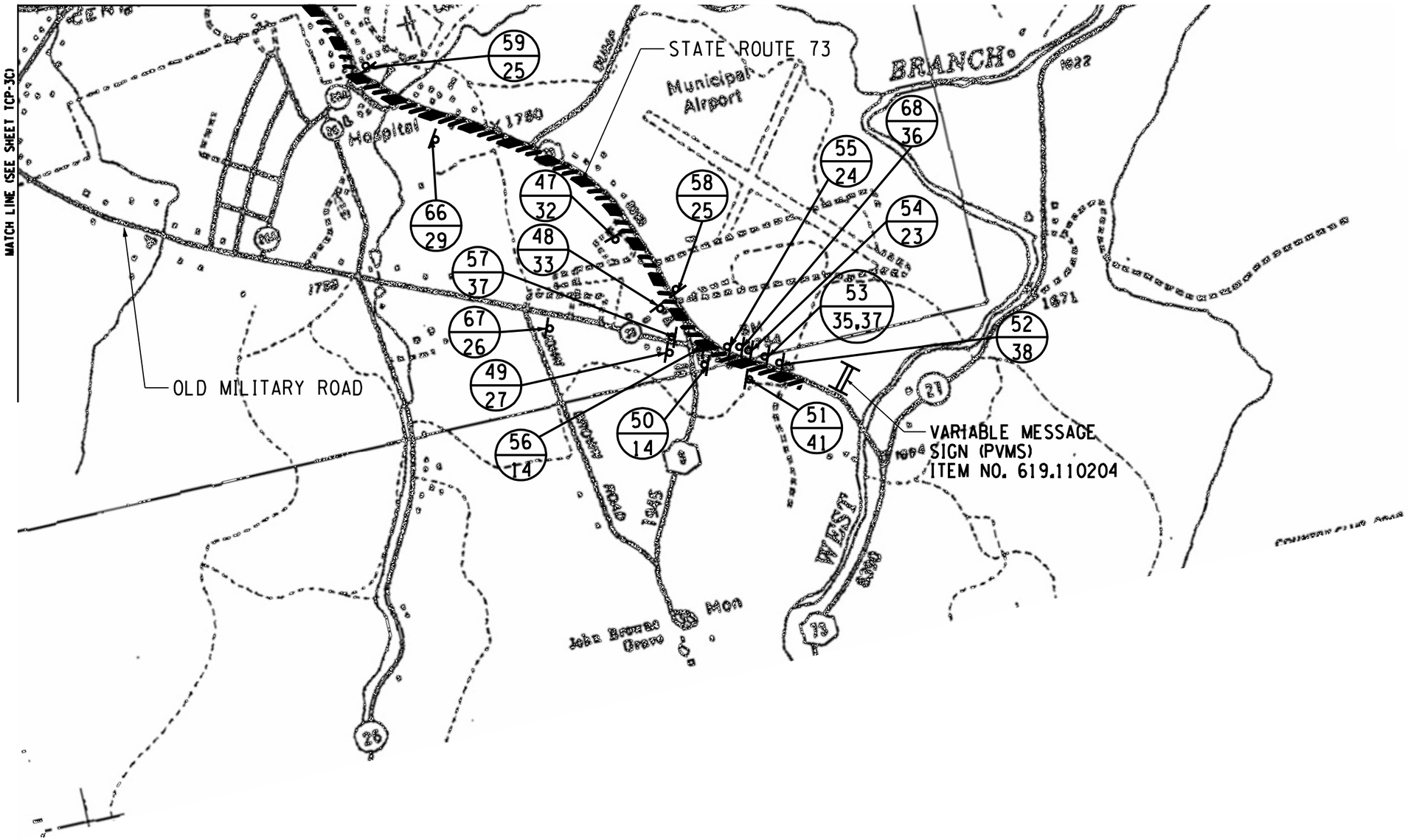
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPH_TCP_03.DGN	ONE	AUGUST 2011	TCP-3C

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		20	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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SIGNATURE DATE

TRUCK DETOUR

Folt-Albert Associates
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Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_03.DGN	ONE	AUGUST 2011	TCP-3D

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		21	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

DETOUR CONSTRUCTION SIGN SCHEDULE

TEXT NUMBER	LOCATION NUMBER	TEXT AND SIZE	NATIONAL OR STATE M.U.T.C.D. NUMBER
1	26	DETOUR WEST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-4 M1-6 D3-1 M5-1R
2	10, 15	DETOUR EAST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-2 M1-6 D3-1 M5-1R
3	29, 34	DETOUR WEST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-4 M1-6 D3-1 M5-1L
~~4~~	~~NIC~~	~~DETOUR EAST / ESSEX 35 COUNTY / OLD MILITARY RD~~	~~M4-8~~ ~~M3-2~~ ~~M1-6~~ ~~D3-1~~ ~~M5-1L~~
5	33, 37, 38	DETOUR WEST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-4 M1-6 D3-1 M6-3
6	2, 8, 9, 13	DETOUR EAST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-2 M1-6 D3-1 M6-3
7	6, 72	ROAD CLOSED	R11-2

DETOUR CONSTRUCTION SIGN SCHEDULE

TEXT NUMBER	LOCATION NUMBER	TEXT AND SIZE	NATIONAL OR STATE M.U.T.C.D. NUMBER
8	27	DETOUR WEST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-4 M1-6 D3-1 M6-1R
9	11, 16	DETOUR EAST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-2 M1-6 D3-1 M6-1R
10	31, 35, 71	DETOUR WEST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-4 M1-6 D3-1 M6-1L
~~11~~	~~NIC~~	~~DETOUR EAST / ESSEX 35 COUNTY / OLD MILITARY RD~~	~~M4-8~~ ~~M3-2~~ ~~M1-6~~ ~~D3-1~~ ~~M6-1L~~
12	41	END DETOUR / WEST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8a M3-4 M1-6 D3-1
13	22	END DETOUR / EAST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8a M3-2 M1-6 D3-1
14	43, 50, 56	LOCAL TRUCKS ONLY	W22-3 MOD

DETOUR CONSTRUCTION SIGN SCHEDULE

TEXT NUMBER	LOCATION NUMBER	TEXT AND SIZE	NATIONAL OR STATE M.U.T.C.D. NUMBER
15	28, 32, 36	DETOUR WEST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-4 M1-6 D3-1
16	7, 12, 17	DETOUR EAST / ESSEX 35 COUNTY / OLD MILITARY RD	M4-8 M3-4 M1-6 D3-1
17	1, 23	DETOUR 1500 FT	W20-2
18	4, 24	ROAD CLOSED 1000 FT	W20-3
19	5, 25	ROAD CLOSED 500 FT	W20-3
20	14, 18, 30		W3-1
~~21~~	~~NIC~~	~~TRUCK DETOUR OLD MILITARY ROAD USE STATE ROUTE 86 TO 73~~	~~D1-4~~
~~22~~	~~NIC~~	~~TRUCK DETOUR OLD MILITARY ROAD CLOSED NORTH OF AVERYVILLE RD USE STATE ROUTE 73 TO 86~~	~~D1-4~~

NOTES:

1. FOR LOCATION OF DETOUR SIGNS, SEE DWG. TCP-3A AND TCP-3B.

NOTES:

1. LOCATION OF CONSTRUCTION SIGNS SHOWN ON THE DETOUR MAP IS APPROXIMATE. SIGNS SHALL BE LOCATED AS PER NATIONAL M.U.T.C.D. WITH NYS SUPPLEMENT, AND AS APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL INSTALL, INSPECT AND MAINTAIN ALL DETOUR CONSTRUCTION SIGNS THROUGHOUT THE DURATION OF THE DETOUR UNDER ITEM 619.01 M.
3. CONSTRUCTION SIGNS SHALL BE COVERED OR REMOVED PRIOR TO THE WINTER SHUTDOWN PERIOD.
4. THE CONTRACTOR SHALL COVER ANY EXISTING SIGNS THAT ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION SIGNS. COST TO BE INCLUDED UNDER ITEM 619.01 M.
5. WHERE TYPE A FLASHING LOW INTENSITY LIGHTING IS PROVIDED, THEY SHALL BE MOUNTED ON THE CONSTRUCTION SIGNS. COST TO BE INCLUDED UNDER ITEM 619.01 M.
6. ONE (1) MONTH PRIOR TO IMPLEMENTING THIS DETOUR, THE CONTRACTOR SHALL NOTIFY THE EIC, ESSEX COUNTY, ALL EMERGENCY SERVICES PROVIDERS, THE SCHOOL DISTRICT, LOCAL POST OFFICE, AND THE NYS AND LOCAL LAKE PLACID POLICE DEPARTMENTS.
7. PRIOR TO IMPLEMENTING THE DETOUR, THE CONTRACTOR SHALL PRUNE AND DISPOSE OF FOLIAGE A.O.B.E. FOR IMPROVING SIGHT DISTANCE. COST TO BE INCLUDED UNDER ITEM 619.01 M. LOCATION AS PROVIDED BY THE ENGINEER.
8. FOR DETOUR SIGN SCHEDULE, SEE DWG. TCP-3C AND TCP-3D.
9. DETOUR MUST BE REMOVED PRIOR TO THE MEMORIAL DAY WEEKEND (MAY 27, 2011) IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THE CONTRACT DOCUMENTS.

LEGEND

- LOCATION " / TEXT "
- LOCATION " / TEXT " — ADD M4-4 SIGN ASSEMBLY BELOW M4-8 (DETOUR TRUCK M4-4)
- CONSTRUCTION SIGNS, ITEM 619.01 M
- TYPE A LIGHTS MOUNTED ON CONSTRUCTION SIGNS, ITEM 619.01 M
- DETOUR ROUTE - CARS
- DETOUR ROUTE - TRUCK AND BUS
- TYPE III CONSTRUCTION BARRICADE, ITEM 619.04 M W/ TYPE B FLASHING WARNING LIGHTS.
- WORK AREA
- TEMPORARY CONCRETE BARRIER, ITEM 619.1702 M W/ WARNING LIGHTS, (UNPINNED)
- CHANGABLE MESSAGE SIGNS (PVMS) ITEM 619.110202M

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DETOUR CONSTRUCTION SIGN SCHEDULE
(SHEET 1 OF 2)

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Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
"_CPH_TCP_03.DGN	ONE	AUGUST 2011	TCP-3E

DESIGN SUPERVISOR W. SHAW
JOB MANAGER K. BALDWIN
DESIGNED BY K. BALDWIN
CHECKED BY W.SHAW
DRAFTED BY B. PARKER
CHECKED BY K. BALDWIN
ESTIMATED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		22	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

DETOUR CONSTRUCTION SIGN SCHEDULE

TEXT NUMBER	LOCATION NUMBER	TEXT AND SIZE	NATIONAL OR STATE M.U.T.C.D. NUMBER
23	54	TRUCK DETOUR TO 86 ↗	M4-4 M4-8 M4-5 NYM3-1 M5-2
24	55	TRUCK DETOUR TO 86 ↗	M4-4 M4-8 M4-5 NYM3-1 M6-2
25	58, 59, 64	TRUCK DETOUR TO 86 ↑	M4-4 M4-8 M4-5 NYM3-1 M6-3
26	60, 67	TRUCK DETOUR TO 86 ↰	M4-4 M4-8 M4-5 NYM3-1 M5-1
27	49, 61, 63	TRUCK DETOUR TO 86 ←	M4-4 M4-8 M4-5 NYM3-1 M6-1
28	62	TRUCK DETOUR TO 86	M4-4 M4-8 M4-5 NYM3-1

DETOUR CONSTRUCTION SIGN SCHEDULE

TEXT NUMBER	LOCATION NUMBER	TEXT AND SIZE	NATIONAL OR STATE M.U.T.C.D. NUMBER
29	42, 66	TRUCK DETOUR TO 73 ↑	M4-4 M4-8 M4-5 NYM3-1 M6-3
30	44, 46	TRUCK DETOUR TO 73 →	M4-4 M4-8 M4-5 NYM3-1 M6-1
31	45	TRUCK DETOUR TO 73 ↱	M4-4 M4-8 M4-5 NYM3-1 M5-1
32	47	TRUCK DETOUR TO 73 ↖	M4-4 M4-8 M4-5 NYM3-1 M5-2
33	33	TRUCK DETOUR TO 73 ↖	M4-4 M4-8 M4-5 NYM3-1 M6-2
34	65	TRUCK DETOUR TO 73	M4-4 M4-8 M4-5 NYM3-1

DETOUR CONSTRUCTION SIGN SCHEDULE

TEXT NUMBER	LOCATION NUMBER	TEXT AND SIZE	NATIONAL OR STATE M.U.T.C.D. NUMBER
35	53	TRUCKS USE 9 TO 9 WEST TO SARANAC LAKE	D1-3 MOD
36	68	TRUCKS TO SARANAC LAKE ↗	D1-2A MOD
37	53, 57	OLD MILITARY ROAD NO TRUCKS ALLOWED PAST FIRE HOUSES	D3-2 MOD
38	52	TRUCK DETOUR AHEAD	W20-1 MOD
39	21	ROAD CLOSED 1/4 MILE AHEAD LOCAL TRAFFIC ONLY DETOUR →	R11-3a M4-10R
40	3	ROAD CLOSED 1/4 MILE AHEAD LOCAL TRAFFIC ONLY ← DETOUR	R11-3a M4-10L
41	51, 70	TRUCK END DETOUR	M4-4 M4-8a

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SIGNATURE DATE

DETOUR CONSTRUCTION SIGN SCHEDULE
(SHEET 2 OF 2)

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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_03.DGN	ONE	AUGUST 2011	TCP-3F

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
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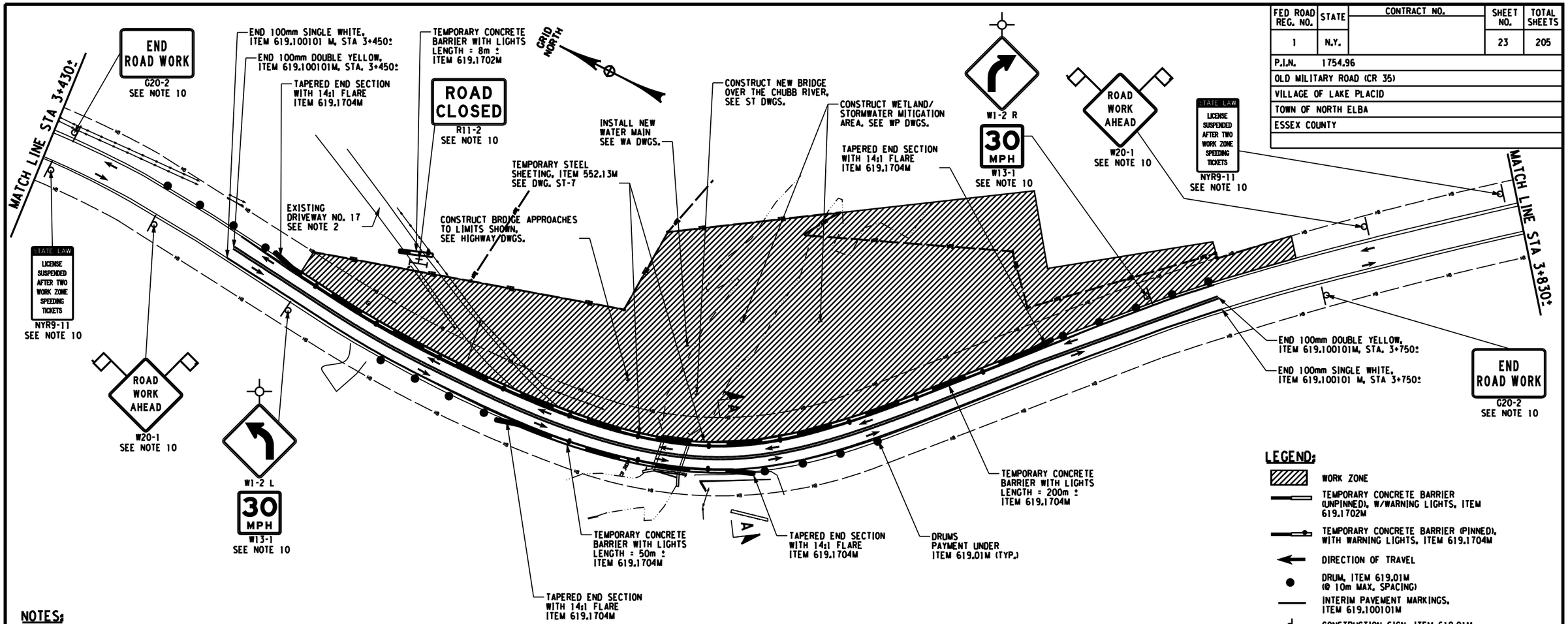
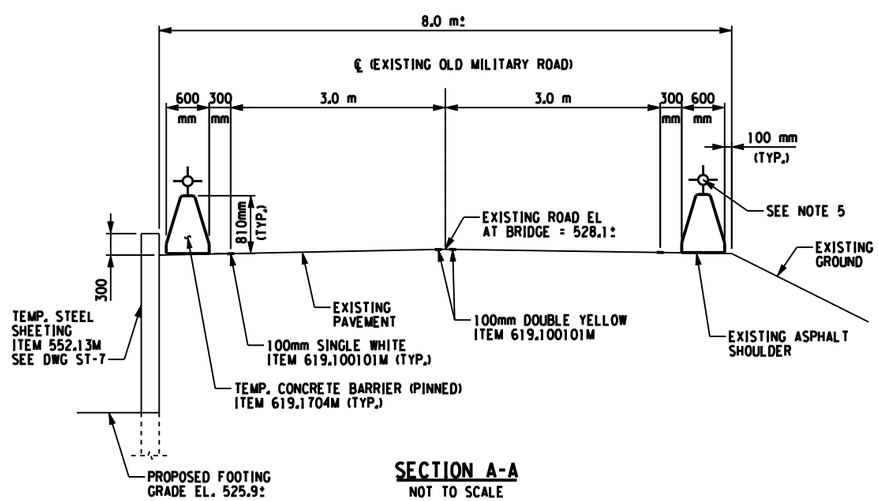
1	N.Y.		23	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTES:

1. CONSTRUCT THE NEW BRIDGE, WETLAND MITIGATION AREAS, NEW WATER MAIN, & HIGHWAY EMBANKMENT BETWEEN THE LIMITS AS SHOWN.
2. ALL TRAFFIC SHALL BE MAINTAINED ON THE EXISTING ROADWAY AS FOLLOWS:
   - COMBINATION LANE & SHOULDER CAN BE REDUCED TO 3.3 METERS TO FACILITATE BRIDGE SUBSTRUCTURE CONSTRUCTION. SEE SECTION A-A.
   - EXISTING DRIVEWAY #17 TO BE CLOSED TO FACILITATE HIGHWAY EMBANKMENT CONSTRUCTION.
3. TEMPORARY CONCRETE BARRIER AND CONSTRUCTION BARRICADES MAY BE MOVED AS NECESSARY DURING THE WORKDAY TO ALLOW EQUIPMENT ACCESS, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY TO PROTECT THE WORK ZONE. THERE SHALL BE NO ADDITIONAL PAYMENT FOR MOVING/REINSTALLATION OF THE TEMPORARY BARRIER AND CONSTRUCTION BARRICADES. A SHADOW VEHICLE CAN ALSO BE USED TO REPLACE THE TEMPORARY CONCRETE BARRIER TO PROVIDE CONSTRUCTION ACCESS DURING THE WORKDAYS. COST OF THE VEHICLE SHALL BE INCLUDED UNDER ITEM 619.01M.
4. FLAGGERS SHALL BE PROVIDED WHEN NEEDED ON OLD MILITARY ROAD TO PROVIDE TWO-WAY ACCESS FOR STAGE II. COST TO BE INCLUDED UNDER ITEM 619.01M.
5. WHERE LIGHTING FOR TEMPORARY CONCRETE BARRIER IS PROVIDED, IT SHALL BE TYPE 'C' WARNING LIGHTS.
6. TEMPORARY CONCRETE BARRIER SHALL BE PINNED. SEE SECTION 619-3.12 FOR MINIMUM PIN EMBEDMENT LENGTHS.
7. IF DUE TO CONSTRUCTION ACTIVITIES OR TRAFFIC VOLUME IMPACT, THE EXISTING ROADWAY IS DAMAGED, THE CONTRACTOR SHALL REMOVE AND INSTALL NEW PAVEMENT A.O.B.E. TO MAINTAIN TWO-WAY TRAFFIC. COST INCLUDED UNDER ITEM 619.01M.
8. 14:1 DENOTES THE FLARE RATE OF THE CONCRETE BARRIER.
9. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE INTERIM PAVEMENT MARKINGS SHALL BE REMOVED UNDER ITEM 619.0801M.
10. LOCATION OF ADVANCED WARNING SIGNAGE IS SCHEMATIC ONLY. THE CONTRACTOR SHALL RELOCATE/COVER ANY EXISTING SIGNS AND INSTALL WORK ZONE SIGNS IN ACCORDANCE WITH THE STANDARD SPECIFICATION UPDATE FOR THE ADOPTION OF THE NATIONAL MUTCD (FHWA) AND THE NEW YORK STATE SUPPLEMENT.



SECTION A-A
NOT TO SCALE

LEGEND:

- WORK ZONE
- TEMPORARY CONCRETE BARRIER (UNPINNED), W/WARNING LIGHTS, ITEM 619.1702M
- TEMPORARY CONCRETE BARRIER (PINNED), WITH WARNING LIGHTS, ITEM 619.1704M
- DIRECTION OF TRAVEL
- DRUM, ITEM 619.01M (@ 10m MAX. SPACING)
- INTERIM PAVEMENT MARKINGS, ITEM 619.100101M
- CONSTRUCTION SIGN, ITEM 619.01M
- CONSTRUCTION SIGN MOUNTED ON TYPE III CONSTRUCTION BARRICADE, ITEM 619.01M
- CONSTRUCTION BARRICADE, ITEM 619.04M
- TYPE B HIGH INTENSITY LIGHTS MOUNTED ON CONSTRUCTION SIGNS, ITEM 619.01M
- FLAG MOUNTED ON SIGNS, ITEM 619.01M

10 0 10 20 30 40 50 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WORK ZONE TRAFFIC CONTROL PLAN
STAGE II
STA 3+550± TO STA 3+700±

Folt-Albert Associates
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Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_04.DGN	ONE	AUGUST 2011	TCP-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W. SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
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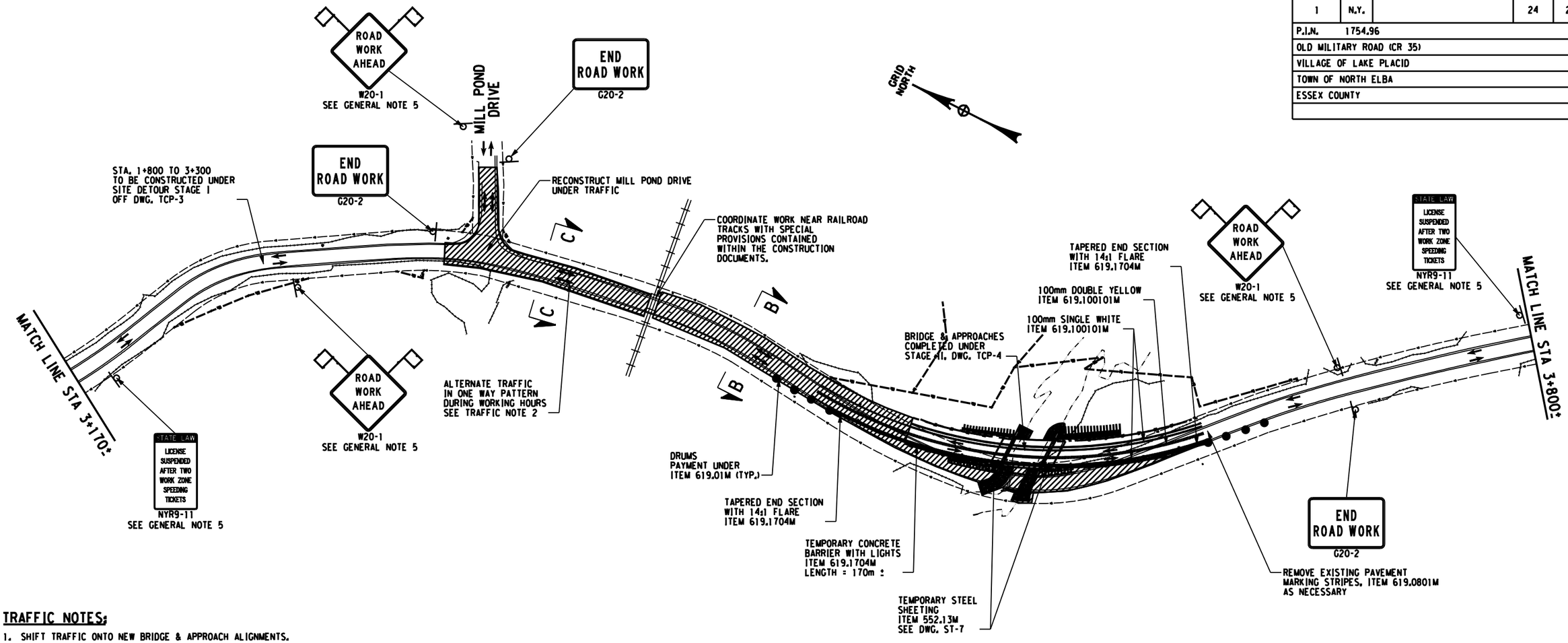
1	N.Y.		24	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



TRAFFIC NOTES:

1. SHIFT TRAFFIC ONTO NEW BRIDGE & APPROACH ALIGNMENTS.
2. DURING WORKING HOURS, CLOSE EITHER THE SOUTHBOUND OR NORTHBOUND ROADWAY TO MAINTAIN ONE TRAVEL LANE (3.3m TOTAL) THROUGH THE WORK AREA. FOR LANE CLOSURE DETAILS, SEE DWG. TCP-2.
3. ARROWS SHOW THE TRAFFIC PATTERNS DURING WORKING HOURS. DURING NON WORKING HOURS, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY OR CONFLICTING TRAFFIC CONTROL DEVICES. ALL TRAFFIC SHALL BE RESTORED TO THE EXISTING TWO WAY PATTERNS, ONE NORTHBOUND AND ONE SOUTHBOUND.
4. PERFORM NECESSARY CUT AND/OR FILL IN MAX 0.3m LIFTS AS SHOWN IN SECTIONS B-B & C-C, DWG TCP-7.
5. DURING NON-WORKING HOURS, REOPEN THE ROADWAY TO TWO LANES OF TRAFFIC.
6. AT THE END OF EACH WORKDAY, ANY EXISTING PAVEMENT WHICH IS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER BEFORE THE ROADWAY IS REOPENED TO TRAFFIC.

GENERAL NOTES:

1. WHERE LIGHTING FOR TEMPORARY CONCRETE BARRIER IS PROVIDED, IT SHALL BE TYPE 'C' WARNING LIGHTS.
2. TEMPORAY CONCRETE BARRIER SHALL BE PINNED. SEE SECTION 619-3.12 FOR MINIMUM PIN EMBEDMENT LENGTHS.
3. IF DUE TO CONSTRUCTION ACTIVITIES OR TRAFFIC VOLUME IMPACT, THE EXISTING ROADWAY IS DAMAGED, THE CONTRACTOR SHALL REMOVE AND INSTALL NEW PAVEMENT A.O.B.E. TO MAINTAIN TWO-WAY TRAFFIC. COST INCLUDED UNDER ITEM 619.01M.
4. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE INTERIM PAVEMENT MARKINGS SHALL BE REMOVED UNDER ITEM 619.0801M.
5. LOCATION OF ADVANCED WARNING SIGNAGE IS SCHEMATIC ONLY. THE CONTRACTOR SHALL RELOCATE/COVER ANY EXISTING SIGNS AND INSTALL WORK ZONE SIGNS IN ACCORDANCE WITH THE STANDARD SPECIFICATION UPDATE FOR THE ADOPTION OF THE NATIONAL MUTCD (FHWA) AND THE NEW TORK STATE SUPPLEMENT.

LEGEND:

- WORK ZONE
- TEMPORARY CONCRETE BARRIER (UNPINNED), W/WARNING LIGHTS, ITEM 619.1702M
- TEMPORARY CONCRETE BARRIER (PINNED), WITH WARNING LIGHTS, ITEM 619.1704M
- DIRECTION OF TRAVEL
- DRUM, ITEM 619.01M (@ 10m MAX. SPACING)
- INTERIM PAVEMENT MARKINGS, ITEM 619.100101M
- CONSTRUCTION SIGN, ITEM 619.01M
- CONSTRUCTION SIGN MOUNTED ON TYPE III CONSTRUCTION BARRICADE, ITEM 619.01M
- CONSTRUCTION BARRICADE, ITEM 619.04M
- TYPE B HIGH INTENSITY LIGHTS MOUNTED ON CONSTRUCTION SIGNS, ITEM 619.01M
- FLAG MOUNTED ON SIGNS, ITEM 619.01M

20 0 20 40 60 80 100 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WORK ZONE TRAFFIC CONTROL PLAN
STAGE III
STA 3+300± TO STA 3+550±

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

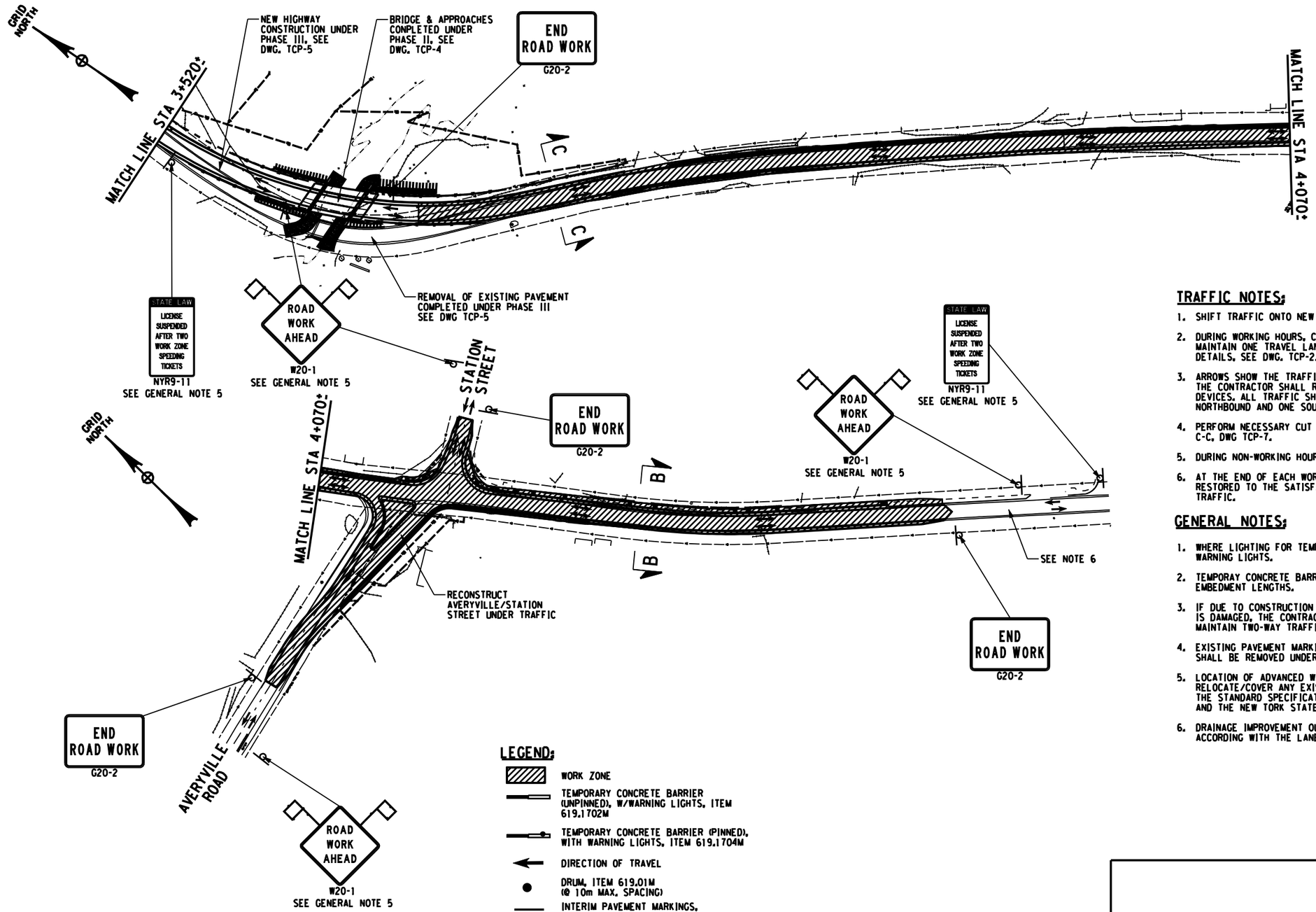
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_05.DGN	ONE	AUGUST 2011	TCP-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		25	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



TRAFFIC NOTES:

1. SHIFT TRAFFIC ONTO NEW BRIDGE & APPROACH ALIGNMENTS.
2. DURING WORKING HOURS, CLOSE EITHER THE SOUTHBOUND OR NORTHBOUND ROADWAY TO MAINTAIN ONE TRAVEL LANE (3.3m TOTAL) THROUGH THE WORK AREA. FOR LANE CLOSURE DETAILS, SEE DWG. TCP-2.
3. ARROWS SHOW THE TRAFFIC PATTERNS DURING WORKING HOURS. DURING NON WORKING HOURS, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY OR CONFLICTING TRAFFIC CONTROL DEVICES. ALL TRAFFIC SHALL BE RESTORED TO THE EXISTING TWO WAY PATTERNS, ONE NORTHBOUND AND ONE SOUTHBOUND.
4. PERFORM NECESSARY CUT AND/OR FILL IN MAX 0.3m LIFTS AS SHOWN IN SECTIONS B-B & C-C, DWG TCP-7.
5. DURING NON-WORKING HOURS, REOPEN THE ROADWAY TO TWO LANES OF TRAFFIC.
6. AT THE END OF EACH WORKDAY, ANY EXISTING PAVEMENT WHICH IS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER BEFORE THE ROADWAY IS REOPENED TO TRAFFIC.

GENERAL NOTES:

1. WHERE LIGHTING FOR TEMPORARY CONCRETE BARRIER IS PROVIDED, IT SHALL BE TYPE 'C' WARNING LIGHTS.
2. TEMPORAY CONCRETE BARRIER SHALL BE PINNED. SEE SECTION 619-3.12 FOR MINIMUM PIN EMBEDMENT LENGTHS.
3. IF DUE TO CONSTRUCTION ACTIVITIES OR TRAFFIC VOLUME IMPACT, THE EXISTING ROADWAY IS DAMAGED, THE CONTRACTOR SHALL REMOVE AND INSTALL NEW PAVEMENT A.O.B.E. TO MAINTAIN TWO-WAY TRAFFIC. COST INCLUDED UNDER ITEM 619.01M.
4. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE INTERIM PAVEMENT MARKINGS SHALL BE REMOVED UNDER ITEM 619.0801M.
5. LOCATION OF ADVANCED WARNING SIGNAGE IS SCHEMATIC ONLY. THE CONTRACTOR SHALL RELOCATE/COVER ANY EXISTING SIGNS AND INSTALL WORK ZONE SIGNS IN ACCORDANCE WITH THE STANDARD SPECIFICATION UPDATE FOR THE ADOPTION OF THE NATIONAL MUTCD (FHWA) AND THE NEW TORK STATE SUPPLEMENT.
6. DRAINAGE IMPROVEMENT OUTSIDE THE LIMITS OF RECONSTRUCTION SHALL BE PERFORMED IN ACCORDING WITH THE LANE AND SHOULDER CLOSURE AS DETAILED ON DWG. TCP-2.

LEGEND:

- WORK ZONE
- TEMPORARY CONCRETE BARRIER (UNPINNED), W/WARNING LIGHTS, ITEM 619.1702M
- TEMPORARY CONCRETE BARRIER (PINNED), WITH WARNING LIGHTS, ITEM 619.1704M
- DIRECTION OF TRAVEL
- DRUM, ITEM 619.01M (@ 10m MAX. SPACING)
- INTERIM PAVEMENT MARKINGS, ITEM 619.100101M
- CONSTRUCTION SIGN, ITEM 619.01M
- CONSTRUCTION SIGN MOUNTED ON TYPE III CONSTRUCTION BARRICADE, ITEM 619.01M
- CONSTRUCTION BARRICADE, ITEM 619.04M
- TYPE B HIGH INTENSITY LIGHTS MOUNTED ON CONSTRUCTION SIGNS, ITEM 619.01M
- FLAG MOUNTED ON SIGNS, ITEM 619.01M

20 0 20 40 60 80 100 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WORK ZONE TRAFFIC CONTROL PLAN
STAGE IV
STA 3+700± TO STA 4+360±

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

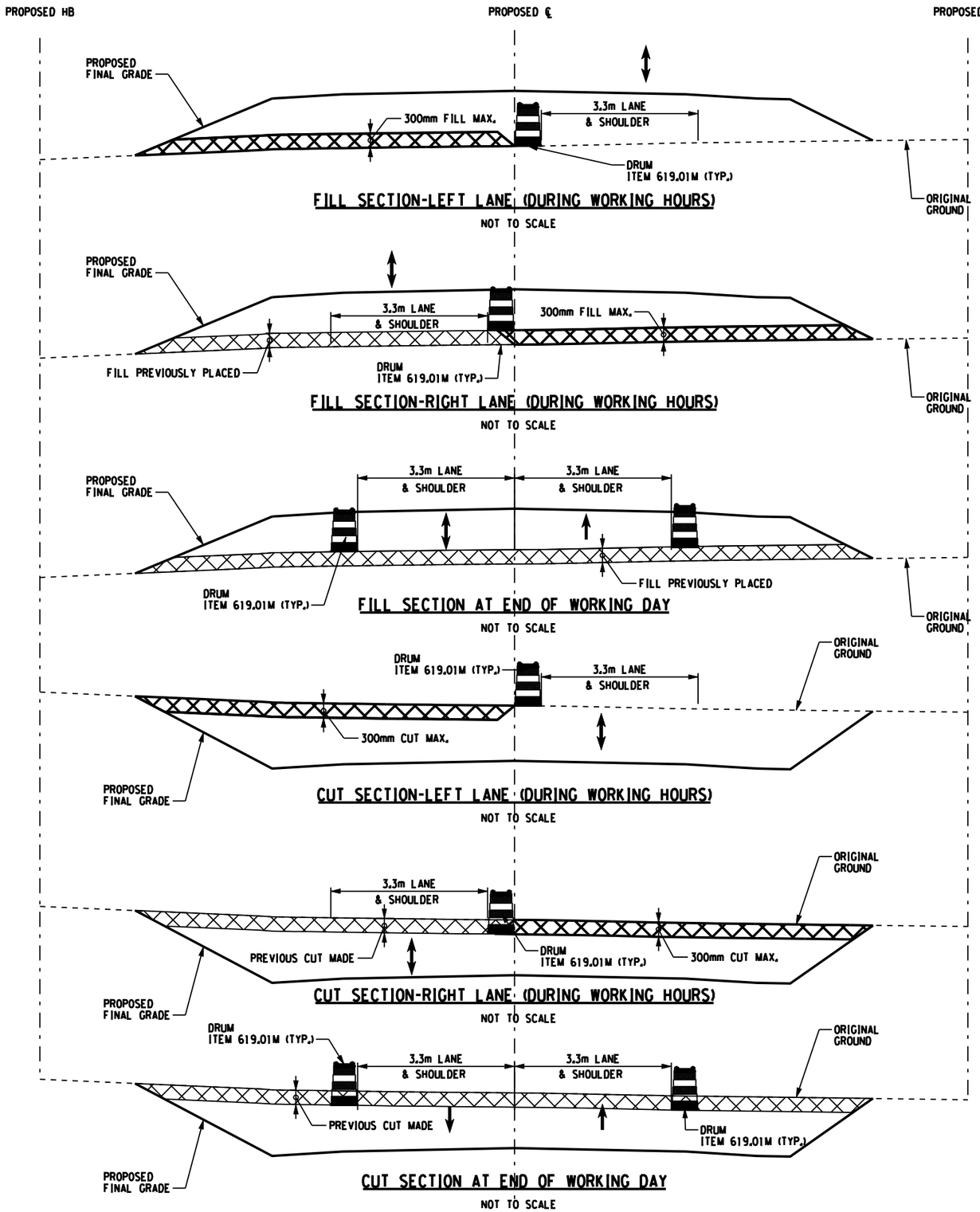
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_06.DGN	ONE	AUGUST 2011	TCP-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		26	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



STAGE III AND IV NOTES:

THESE SECTIONS ARE THE SUGGESTED DETAILS FOR THE RECONSTRUCTION OF OLD MILITARY ROAD FOR STAGES III AND IV. (STA 3+300± TO STA 3+550±) AND (STA 3+700± TO STA STA. 4+360±). THE CONTRACTOR SHALL INSTALL A W8-3 "PAVEMENT ENDS" SIGN, W8-1 "BUMP" SIGN, OR A W8-2 "DIP" SIGN AS ORDED BY THE ENIGINEER DURING THE COURSE OF CONSTRUCTION.

1. MAINTIAN ONE TWO-WAY TRAVEL LANE AT 3.3m WIDTH WITH FLAGGERS, CONSTRUCT A MAXIMUM 0.3 METER LIFT OR 0.3 METER CUT AS ILLUSTRED IN THE SECTIONS ON THIS DWG.
2. MAINTAIN ONE TWO-WAY TRAVEL LANE AT 3.3m WITH FLAGGERS ON THE COMPACTED LIFT OR CUT. CONSTRUCT AND COMPLETE ANOTHER 0.3m LIFT OR CUT ON THE OTHER SIDE OF HTE ROADWAY.
3. AT THE END OF THE WORKING DAY, MAINTAIN TWO TRAVEL LANES ON THE COMPACTED LIFT OR CUT. THE CONTRACTOR SHALL SCHEDULE HIS CONSTRUCT ACTIVITIES TO ENSURE A UNIFORM NON-RUTTED RIDABLE SURFACE SHALL BE AVAILABLE TO MAINTAIN TWO-WAY TRAFFIC BY THE END OF HTE WORKING DAY. THE CONTRACTOR SHALL PROVIDE A SAFE, ACCESSIBLE ROUTE THROUGH THE CONSTRUCTION AREA AT ALL TIMES.

OVERALL SEQUENCE OF CONSTRUCTION:

ROADWORK ALONG OLD MILITARY ROAD SHALL GENERALLY PROGRESS FROM NORTH TO SOUTH IN ACCORDANCE WITH THE FOLLOWING:

1. CLOSE HIGHWAY BETWEEN STA. 1+800 TO STA. 3+300 AFTER DETOUR ROUTE SIGNAGE IS INSTALLED IN ACCORDANCE WITH DWG. TCP-3A & TCP3B. THIS DETOUR CAN ONLY BE IN PLACE FOR THE TIME PERIOD OUTLINED IN THE PLANS AND SPECIFICATIONS.
2. INTALL STAGE II TRAFFIC CONTROL AS OUTLINED IN DWG. TCP-4 BETWEEN STA. 3+550± AND STA. 3+700±.
3. BEGIN STAGE III CONSTRUCTION AS OUTLINED IN DWG. TCP-5 BETWEEN STA. 3+300± AND STA. 3+550±.
4. AFTER COMPLETION OF STAGE III, BEGIN STAGE IV CONSTRUCTION AS OUTLINED IN DWG. TCP-6 BETWEEN STA. 3+700± AND STA. 4+360±.

NOTE: DURING THE TIME FRAME RESTRICTIONS AS OUTLINE ON DWG. TCP-1, ALL CONSTRUCTION AREAS ALONG THE PROJECT LIMITS SHALL BE COMPLETED TO SAFELY ACCOMODATE VEHICULAR, BICYCLE, & PEDISTRIAN TRAFFIC. THIS WORK SHALL INCLUDE PROVIDING POSITIVE DRAINAGE, PAVEMENT COURSES UP TO BINDER, PAVEMENT MARKINGS, AND TRAFFIC SIGNS. IN NO CASE SHALL THE TRAVEL LANES OR SHOULDER BE LEFT UNPAVED DURING THESE TIME FRAMES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WORK ZONE TRAFFIC CONTROL DETAILS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

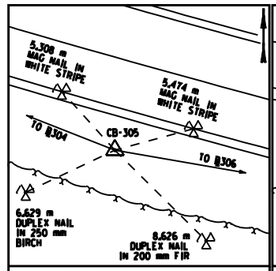
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TCP_07.DGN	ONE	AUGUST 2011	TCP-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		27	205

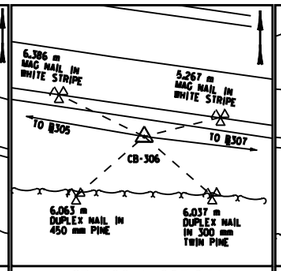
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



CB 305 1+788.357

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
350 +/- m WESTERLY OF
℄ OF CAROLYN RD
6.0 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

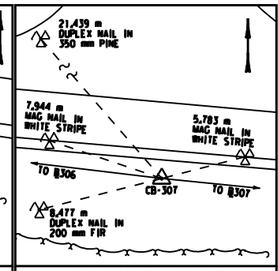
NYSPCS ZONE: EAST
N: 605562.3115
E: 188468.3370
ELEV: 573.530



CB 306 1+983.844

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
150 +/- m WESTERLY OF
℄ OF CAROLYN RD
5.0 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

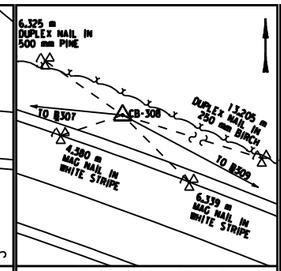
NYSPCS ZONE: EAST
N: 605529.0582
E: 188660.9753
ELEV: 569.067



CB 307 2+137.978

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
AT THE INTERSECTION
℄ OF CAROLYN RD
5.0 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

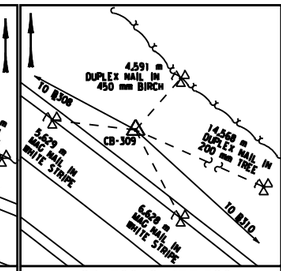
NYSPCS ZONE: EAST
N: 605510.7040
E: 188814.0127
ELEV: 570.843



CB 308 2+302.918

S.C.I.R. SET BELOW GRADE ON
NORTH SIDE OF OLD MILITARY RD
165 m +/- EASTERLY OF
℄ OF CAROLYN RD
6.0 m +/- NORTHERLY OF
℄ OF OLD MILITARY RD

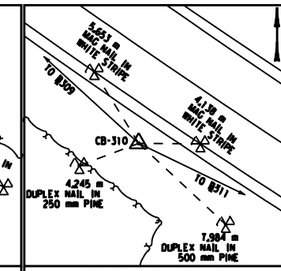
NYSPCS ZONE: EAST
N: 605494.5046
E: 188978.1551
ELEV: 576.624



CB 309 2+457.329

S.C.I.R. SET BELOW GRADE ON
NORTH SIDE OF OLD MILITARY RD
320 m +/- EASTERLY OF
℄ OF CAROLYN RD
6.0 m +/- NORTHERLY OF
℄ OF OLD MILITARY RD

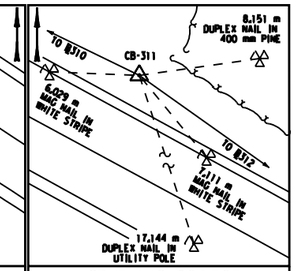
NYSPCS ZONE: EAST
N: 605421.9283
E: 189114.4472
ELEV: 580.246



CB 310 2+606.124

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
470 m +/- EASTERLY OF
℄ OF CAROLYN RD
5.5 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

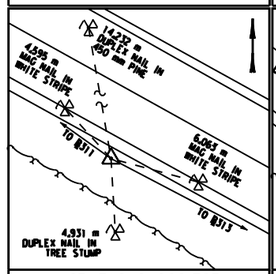
NYSPCS ZONE: EAST
N: 605321.4979
E: 189224.2364
ELEV: 579.469



CB 311 2+804.503

S.C.I.R. SET BELOW GRADE ON
NORTH SIDE OF OLD MILITARY RD
665 m +/- EASTERLY OF
℄ OF CAROLYN RD
6.0 m +/- NORTHERLY OF
℄ OF OLD MILITARY RD

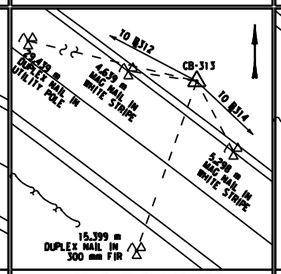
NYSPCS ZONE: EAST
N: 605234.9356
E: 189402.7335
ELEV: 582.471



CB 312 2+900.705

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
760 m +/- EASTERLY OF
℄ OF CAROLYN RD
4.5 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

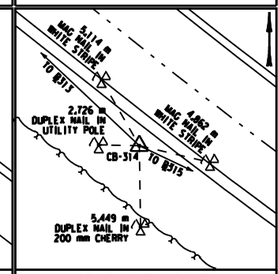
NYSPCS ZONE: EAST
N: 605179.2029
E: 189481.1470
ELEV: 581.181



CB 313 3+042.253

S.C.I.R. SET BELOW GRADE ON
NORTH SIDE OF OLD MILITARY RD
420 m +/- NORTHWESTERLY OF
℄ OF MILL POND RD
5.5 m +/- NORTHERLY OF
℄ OF OLD MILITARY RD

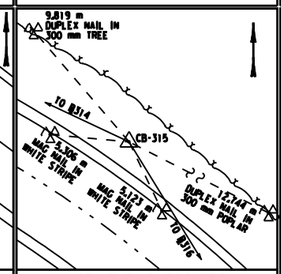
NYSPCS ZONE: EAST
N: 605113.4916
E: 189606.5183
ELEV: 566.980



CB 314 3+190.721

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
270 m +/- NORTHWESTERLY OF
℄ OF MILL POND RD
5.0 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

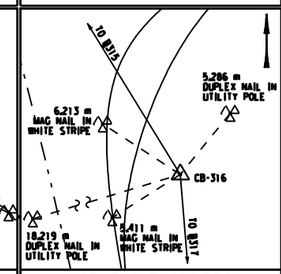
NYSPCS ZONE: EAST
N: 605011.4946
E: 189714.4041
ELEV: 551.160



CB 315 3+322.455

S.C.I.R. SET BELOW GRADE ON
NORTH SIDE OF OLD MILITARY RD
140 m +/- NORTHWESTERLY OF
℄ OF MILL POND RD
5.5 m +/- NORTHERLY OF
℄ OF OLD MILITARY RD

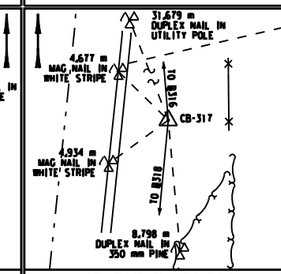
NYSPCS ZONE: EAST
N: 604955.3649
E: 189833.5808
ELEV: 547.246



CB 316 3+480.590

S.C.I.R. SET BELOW GRADE ON
EAST SIDE OF OLD MILITARY RD
18 m +/- SOUTHERLY OF
℄ OF MILL POND RD
8.5 m +/- EASTERLY OF
℄ OF OLD MILITARY RD

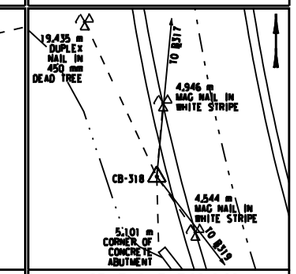
NYSPCS ZONE: EAST
N: 604820.6313
E: 189916.3673
ELEV: 534.109



CB 317 3+628.289

S.C.I.R. SET BELOW GRADE ON
EAST SIDE OF OLD MILITARY RD
165 m +/- SOUTHERLY OF
℄ OF MILL POND RD
7.0 m +/- EASTERLY OF
℄ OF OLD MILITARY RD

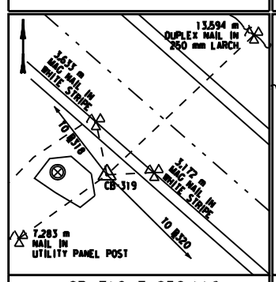
NYSPCS ZONE: EAST
N: 604673.4340
E: 189928.5308
ELEV: 531.592



CB 318 3+746.842

S.C.I.R. SET BELOW GRADE ON
WEST SIDE OF OLD MILITARY RD
285 m +/- SOUTHERLY OF
℄ OF MILL POND RD
4.5 m +/- WESTERLY OF
℄ OF OLD MILITARY RD

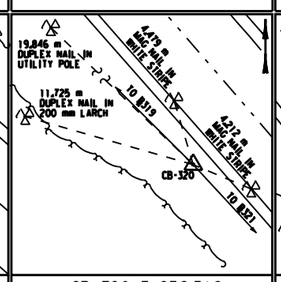
NYSPCS ZONE: EAST
N: 604555.4008
E: 189917.4418
ELEV: 528.105



CB 319 3+852.110

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
410 m +/- NORTHWESTERLY OF
℄ OF AVERYVILLE RD
5.5 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

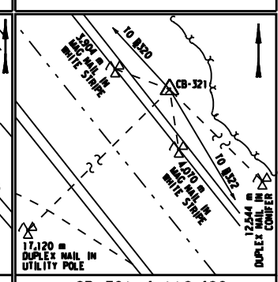
NYSPCS ZONE: EAST
N: 604472.1215
E: 189981.8316
ELEV: 529.454



CB 320 3+956.519

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
305 m +/- NORTHWESTERLY OF
℄ OF AVERYVILLE RD
5.0 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

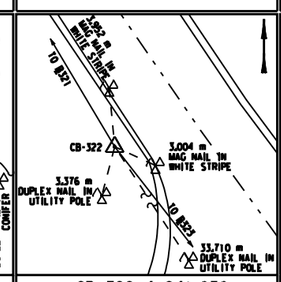
NYSPCS ZONE: EAST
N: 604398.4040
E: 190055.7702
ELEV: 533.513



CB 321 4+118.482

S.C.I.R. SET BELOW GRADE ON
NORTH SIDE OF OLD MILITARY RD
145 m +/- NORTHWESTERLY OF
℄ OF AVERYVILLE RD
5.5 m +/- NORTHERLY OF
℄ OF OLD MILITARY RD

NYSPCS ZONE: EAST
N: 604279.3353
E: 190165.5639
ELEV: 536.304



CB 322 4+241.030

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
19 m +/- NORTHWESTERLY OF
℄ OF AVERYVILLE RD
5.5 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

NYSPCS ZONE: EAST
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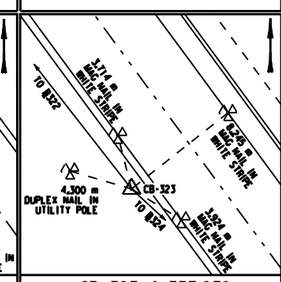
E: 190228.2863
ELEV: 537.747



CB 323 4+337.938

S.C.I.R. SET BELOW GRADE ON
SOUTH SIDE OF OLD MILITARY RD
78 m +/- SOUTHEASTERLY OF
℄ OF AVERYVILLE RD
5.0 m +/- SOUTHERLY OF
℄ OF OLD MILITARY RD

NYSPCS ZONE: EAST
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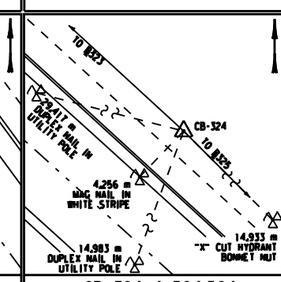
ELEV: 539.898



CB 324 4+524.594

S.C.I.R. SET BELOW GRADE ON
NORTH SIDE OF OLD MILITARY RD
265 m +/- SOUTHEASTERLY OF
℄ OF AVERYVILLE RD
7.5 m +/- NORTHERLY OF
℄ OF OLD MILITARY RD

NYSPCS ZONE: EAST
N: 603971.3790
E: 190425.3907
ELEV: 543.160

FOR TABLE OF BENCHMARKS, SEE DWG. BT-2

GENERAL NOTES:

1. THIS BASE MAP WAS PREPARED FROM A 2005 GROUND SURVEY.
2. THE CORDINATE SYSTEM IS THE NEW YORK STATE PLANE COORDINATE SYSTEM, EASTERN ZONE.
3. CAUTION SHOULD BE EXERCISED WHEN USING ELEVATION OF THE BASELINE POINTS AS THEY ARE SUSCIPTIBLE TO FROST HEAVE.
4. THE HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT (NAD 83/96).
5. THE VERTICAL DATUM IS THE NATIONAL VERTICAL DATUM OF 1988 (NGVD 88).

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

BASELINE TIES

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_BLT.DGN	ONE	AUGUST 2011	BT-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		28	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

VERTICAL DATUM: NAVD88

TABLE OF BENCHMARKS

CP BM NO.	℄ STA.	OFFSET (m)	DESCRIPTION	ELEV. (m)
33	2+026.300	13.600 LT	RAILROAD SPIKE IN 450 mm DIA. PINE TREE LOCATED ALONG NORTH SIDE OF OLD MILITARY ROAD, 45 m± EAST OF CB-306	568.530
34	2+297.300	3.00 LT	RAILROAD SPIKE IN 550 mm DIA. PINE TREE LOCATED ALONG NORTH SIDE OF OLD MILITARY ROAD, 6 m± WEST OF CB-310	579.072
35	2+577.600	11.000 LT	RAILROAD SPIKE IN 420 mm DIA. POPLAR TREE LOCATED ALONG NORTH SIDE OF OLD MILITARY ROAD, 25 m± WEST OF CB-310	580.344
36	2+862.300	6.700 LT	CHISELED 'X' ON BONNET NUT BEWEEN "VILE" & "ALA" LOCATED ALONG NORTH SIDE OF OLD MILITARY ROAD, 75 m± WEST OF CB-312	583.414
37	3+142.300	10.100 LT	CHISELED BOX CUT ABOVE HIGH POINT OF LOWER ROCK OUTCROP, LOCATED ALONG NORTH SIDE OF OLD MILITARY ROAD, 45 m± WEST OF CB-314	555.840
38	3+446.300	6.300 LT	50 PENNY SPIKE IN UTILITY POLE L.P.U.E. 5, NYNEX 510-1 LOCATED ALONG NORTH SIDE OF OLD MILITARY ROAD, 20 m± WEST OF THE CENTERLINE OF MILL POND ROAD	537.467
39	3+669.100	0.600 RT	CHISELED 'X' ON FRONT BONNET NUT OF HYDRANT LOCATED ALONG NORTH SIDE OF OLD MILITARY ROAD, 40 m± EAST OF CB-317	529.804
40	3+947.800	1.000 RT	CHISELED 'X' ON FRONT BONNET NUT OF HYDRANT LOCATED ALONG SOUTH SIDE OF OLD MILITARY ROAD, 9 m± EAST OF CB-320	533.681
41	4+243.300	2.700 RT	50 PENNY SPIKE IN UTILITY POLE L.P.V.E. 12 ALONG THE SOUTH SIDE OF OLD MILITARY ROAD, 15 m± WEST OF THE CENTERLINE OF AVERYVILLE ROAD	538.071
42	4+539.500	0.000	CHISELED 'X' ON BONNET NUT AT HEAD OF ARROW OF HYDRANT ALONG NORTH SIDE OF OLD MILITARY ROAD IN FRONT OF LAKE PLACID ELEMENTARY SCHOOL	543.988

BTPA = BACK TANGENT PRODUCED AHEAD
FOR BASELINE TIES SEE DWG. BT-1.

GENERAL NOTES:

1. SEE DWG BT-1 FOR BASELINE AND BENCHMARK GENERAL NOTES

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

BENCHMARKS

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_BLT.DGN	ONE	AUGUST 2011	BT-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
DRAFTED BY B. PARKER CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		29	205

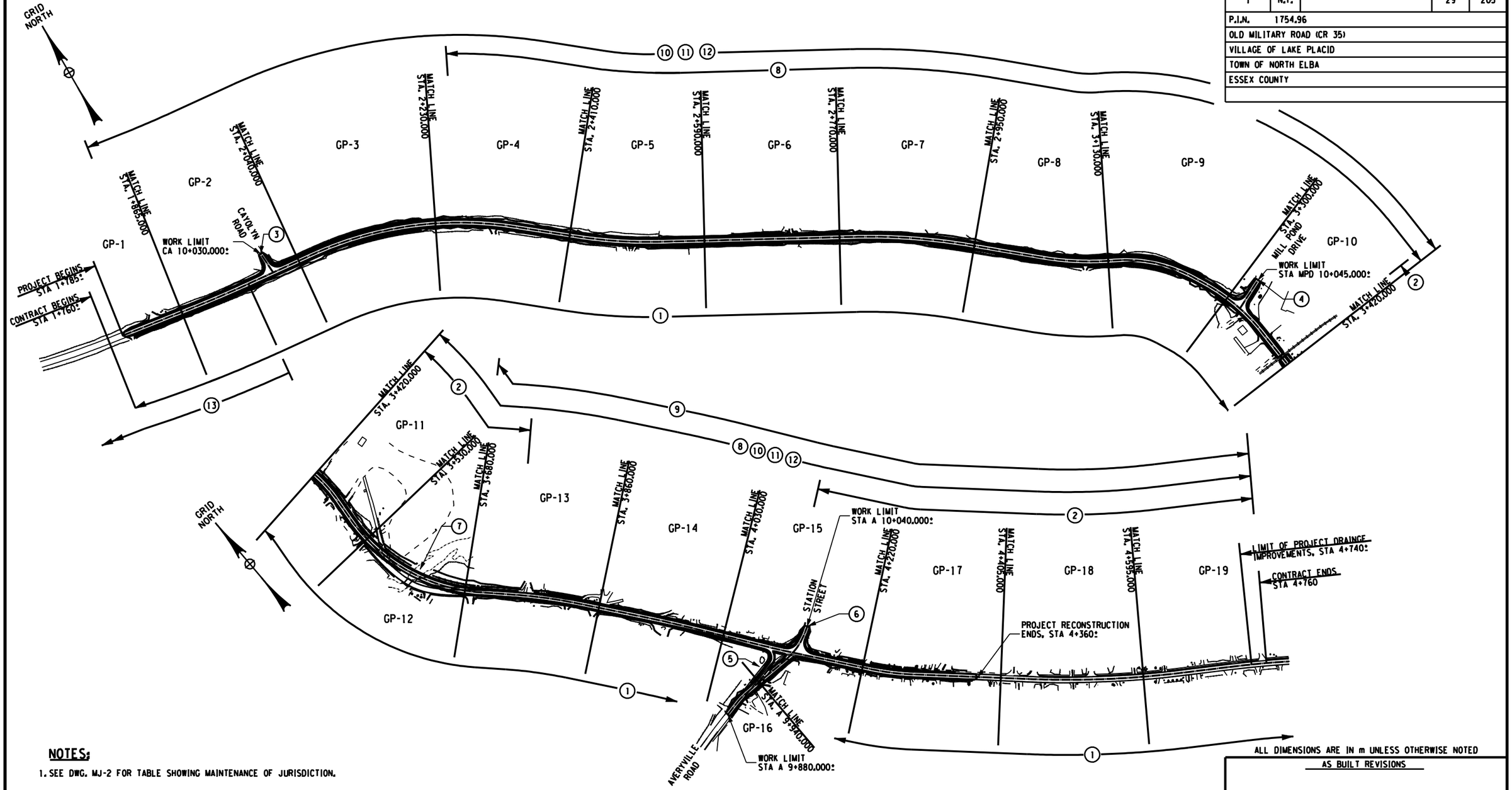
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY



NOTES:

1. SEE DWG. MJ-2 FOR TABLE SHOWING MAINTENANCE OF JURISDICTION.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

HIGHWAY MAINTENANCE JURISDICTION PLAN

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MJP	ONE	AUGUST 2011	MJ-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		30	205

P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY

MAINTENANCE JURISDICTION TABLE

PART NO.	HIGHWAY	LIMITS STA	LIMITS STA	FEATURES	KM	LANE KM	AGENCY
HIGHWAY							
1	OLD MILITARY ROAD (CR 35)	1+760	4+760	PAVEMENT, CURBING, DRAINAGE SYSTEM, STRIPING, RAILING	3	6	ESSEX COUNTY
SIDEWALKS AND SHARED USE PATH							
2	OLD MILITARY ROAD (CR 35)	3+409.5 LT 4+109.0 LT	3+750.0 LT 4+760.0 LT	FUTURE SHARED USE PATH SIDEWALK	0.35 0.65	-	VILLAGE OF LAKE PLACID
INTERSECTIONS AND CROSS ROADS							
3	CAROLYN ROAD	CA 10+000	CA 10+030±	PAVEMENT, DRAINAGE SYSTEM, STRIPING	0.03	0.06	TOWN OF NORTH ELBA
4	MILL POND DRIVE	MPD 10+000	MPD 10+045±	PAVEMENT, DRAINAGE SYSTEM, STRIPING	0.045	0.09	TOWN OF NORTH ELBA
5	AVERYVILLE ROAD	A 9+880±	A 10+000	PAVEMENT, DRAINAGE SYSTEM, STRIPING	0.12	0.24	ESSEX COUNTY
6	STATION STREET	A 10+000	A 10+040±	PAVEMENT, DRAINAGE SYSTEM, STRIPING	0.04	0.08	TOWN OF NORTH ELBA
SNOW AND ICE CONTROL							
1	OLD MILITARY ROAD (CR 35)	1+760	4+760	SNOW AND ICE ON HIGHWAY	-	-	ESSEX COUNTY
2	OLD MILITARY ROAD (CR 35)	3+409.5 LT 4+109.0 LT	3+750.0 LT 4+760.0 LT	SNOW AND ICE CONTROL ON FUTURE SHARED USE PATH AND SIDEWALKS	-	-	VILLAGE OF LAKE PLACID
STRUCTURES							
7	OLD MILITARY ROAD (CR 35) BRIDGE OVER CHUBB RIVER	3+593±	3+627±	ENTIRE BRIDGE STRUCTURE AND APPROACHES	-	-	ESSEX COUNTY
UTILITIES							
8	WATER MAIN			WATERMAIN, HYDRANTS, VALVES, AND OTHER APPURT.	-	-	VILLAGE OF LAKE PLACID
9	SANITARY SEWER			GRAVITY AND PRESSURE MAINS, MANHOLES, AND OTHER APPURT.	-	-	VILLAGE OF LAKE PLACID
10	OVERHEAD ELECTRIC			POLES AND ELECTRIC LINES	-	-	VILLAGE OF LAKE PLACID
11	OVERHEAD TELEPHONE			LINES	-	-	VERIZON
12	OVERHEAD CABLE			LINES	-	-	TIME WARNER CABLE
13	FIBER OPTIC	<1+769±	2+000±	UNDERGROUND LINES	-	-	TIME WARNER CABLE

MAINTENANCE JURISTICTION NOTES

1. 'PART NO.' IN THE TABLE REFERS TO CORRESPONDING CIRCLED NUMBER ON DWG. MJ-1.
2. ALL EXISTING MUNICIPALLY OR PRIVATELY OWNED UTILITIES WITHIN THE LIMITS OF THE HIGHWAY RIGHT OF WAY WHICH REMAIN IN SERVICE UNCHANGED, AND ALL SUCH FACILITIES RELOCATED AS A PART OF THE WORK PERFORMED UNDER THIS PROJECT, WHETHER CROSSING, LOCATED WITHIN OR ADJACENT TO THE ROW, SHALL BE MAINTAINED BY THE MUNICIPALITY OR BY THE PRIVATE OWNER AT NO COST OR EXPENSE TO THE COUNTY.
3. THE PORTION OF A DRIVEWAY OR PRIVATE ROAD, CONSTRUCTED OR ADJUSTED UNDER THE PROJECT BETWEEN THE EDGE OF PAVEMENT AND THE OUTSIDE EDGE OF SHOULDER OR GUTTER LINE, SHALL BE MAINTAINED BY THE COUNTY. THE REMAINING PORTION OF THE ADJUSTED SHOULDER, OR GUTTER LINE, SHALL BE MAINTAINED BY THE OWNER(S).
4. THE COUNTY BY AGREEMENT MAY CONTRACT WITH THE LOCAL MUNICIPALITY AND/OR STATE FOR MAINTENANCE OF COUNTY ROADS, HOWEVER PRIMARY JURISDICTION REMAINS WITH THE COUNTY.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

HIGHWAY MAINTENANCE JURISDICTION TABLE AND NOTES

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MJP	ONE	AUGUST 2011	MJ-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		31	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

TREE REMOVAL

STATION	OFFSET	TYPE	ITEM 614.0313 M (EACH)	ITEM 614.0323 M (EACH)	ITEM 614.0333 M (EACH)	ITEM 614.0343 M (EACH)
2+477	6.7 m RT	500 mm PINE				1
3+424	7.0 m RT	400 mm LARCH			1	
3+427	8.2 m RT	350 mm BIRCH			1	
3+438	8.1 m RT	450 mm			1	
3+494	7.3 m RT	300 mm PINE			1	
3+494	7.8 m RT	250 mm PINE		1		
3+502	6.8 m RT	450 mm PINE			1	
3+515	8.2 m RT	450 mm PINE			1	
3+519	8.2 m RT	450 mm PINE			1	
3+520	8.5 RT	300 mm PINE		1		
3+876	7.1 m LT	370 mm PINE			1	
4+233	8.4 m RT	100 mm MAPLE	1			
4+252	5.8 m RT	550 mm				1
4+268	5.3 m RT	350 mm			1	
4+271	6.0 m RT	400 mm			1	
4+308	7.5 m RT	150 mm APPLE	1			
4+333	6.2 m RT	350 mm			1	
4+340	6.6 m RT	350 mm			1	
		TOTAL	2	2	12	2

ITEM 614.0313 M - TREE REMOVAL, UP TO 150 MM DIAMETER, BREAST HIGH, STUMPS CUT 150 MM BELOW GRADE
ITEM 614.0323 M - TREE REMOVAL, OVER 150 MM TO 300 MM DIAM, BREAST HIGH, STUMPS CUT 150 MM BELOW GRADE
ITEM 614.0333 M - TREE REMOVAL, OVER 300 MM TO 450 MM DIAM, BREAST HIGH, STUMPS CUT 150 MM BELOW GRADE
ITEM 614.0343 M - TREE REMOVAL, OVER 450 MM TO 600 MM DIAM, BREAST HIGH, STUMPS CUT 150 MM BELOW GRADE

TABLE OF HYDRANTS

STA	SIDE (LT/RT)	OFFSET EXISTING (PROPOSED)	ITEM 663.1301 (EACH) 663.1006M	ITEM 663.1302 (EACH) 663.1006M	ITEM 663.1303 (EACH) 663.1006M	ITEM 663.1304 (EACH) 663.1006M	ITEM 663.34 M (EACH)	ITEM 663.46 M (EACH)
2+334	LT	7					1	
2+528	LT	7.1						
2+725	LT	6.9					1	
3+522	LT	4.7						1
3+540	LT	(8.9)	1					
3+700	LT	(8.9)		1				
3+792	RT	7.2						
3+950	RT	8.8						
4+301	LT	6.3 (7.5)			1			1
4+383	LT	7						
4+612	LT	4.9 (7.5)				1		1
4+810	LT	4.9						
	TOTAL		1	1	1	1	2	3

NOTE: EACH LOCATION HAS 1 HYDRANT AND 1 VALVE.
ITEM 663.1006 M - VALVE AND BOX 6 NPS
ITEM 663.13NN M - HYDRANT (SERIALIZED ITEM)
ITEM 663.34 M - ADJUST EXISTING HYDRANT ELEVATION
ITEM 663.46 M - REMOVE AND STORE EXISTING HYDRANT

ADJUST EXISTING VALVE BOX ELEVATION AND CURB BOXES

STATION	SIDE	OFFSET	ITEM 663.33 M	ITEM 663.35 M
2+258±	LT	5.5	1	
2+334±	LT	6.0	1	
2+308±	LT	5.5	1	
2+528±	LT	6.0	1	
2+725±	LT	4.5	1	
2+744±	LT	6.5	1	
3+323±	LT	3.0	1	
3+323±	LT	4.0	1	
3+374±	LT	5.0	1	
3+785±	RT	6.5	1	
3+865±	RT	5.0	1	
3+900±	RT	4.5	1	
3+950±	RT	4.0	1	
3+993±	RT	3.0	1	
4+097±	RT	6.0	1	
4+132±	LT	14.0	1	
4+210±	RT	6.0	1	
4+226±	LT	5.0	1	
4+235±	RT	7.5		1
4+297±	RT	6.0		1
4+298±	LT	5.5		1
4+301±	LT	5.0	1	
4+325±	RT	6.0		1
4+355±	RT	6.5		1
		TOTAL	18	5

ITEM 663.33 M - ADJUST EXISTING VALVE BOX ELEVATION (EA)
ITEM 663.35 M - ADJUST EXISTING CURB BOX ELEVATION (EA)

GUIDE RAIL - INSTALLATION

STATION	TO STATION	SIDE	POST SPACING (M)	LENGTH	FACTOR	ITEM 568.52 M (M)	ITEM 568.70 M (M)	ITEM 606.10 M (M)	ITEM 606.120102 M (EA)	ITEM 606.120201 M (EA)
3+537.60	3+545.80	RT		8.2					1	
3+545.80	3+587.10	RT	1.83	41.3	1.0			41.3		
3+587.10	3+596.70	RT		9.6			9.6			
3+553.80	3+562.0	LT		8.2						1
3+562.0	3+586.30	LT	1.83	24.3	1.0			24.3		
3+586.30	3+595.90	LT		9.6			9.6			
3+596.70	3+619.0	RT		22.3		22.3				
3+595.90	3+631.80	LT		35.9		35.9				
3+619.0	3+628.40	RT		9.6			9.6			
3+628.60	3+631.0	RT	1.83	2.4	1.0			2.4		
3+631.0	3+633.20	RT		2.2						1
3+639.30	3+641.50	RT		2.2						1
3+641.50	3+673.40	RT	1.83	31.9	1.0			31.9		
3+673.40	3+681.60	RT		8.2					1	
3+631.80	3+641.40	LT		9.6			9.6			
3+641.40	3+686.60	LT	1.83	45.2	1.0			45.2		
3+686.60	3+695.00	LT		8.2						1
3+701.00	3+709.20	LT		8.2						1
3+709.20	3+745.40	LT	1.83	36.2	1.0			36.2		
3+745.40	3+753.60	LT		8.2						1
					TOTAL	58.2	38.40	203.9	2	4

ITEM 568.52 M - STEEL BRIDGE RAILING (FIVE-RAIL)
ITEM 568.70 M - TRANSITION BRIDGE RAILING
ITEM 606.10 M - BOX BEAM GUIDE RAILING
ITEM 606.120102 M - BOX BEAM GUIDE RAILING END ASSEMBLY TYPE I
ITEM 606.120201 M - BOX BEAM GUIDE RAILING END ASSEMBLY TYPE IIA

REMOVE AND RESET EXISTING FENCE - ITEM 607.97 08M

TYPE	STA TO STA.		LENGTH
VINYL	3+426±	3+470±	44
CHAINLINK	3+426±	3+470±	44
VINYL	3+474±	3+480±	6
CHAINLINK	3+474±	3+480±	6
VINYL	3+540±	3+546±	8
VINYL	3+550±	3+590±	34
		TOTAL	142

• STATION TO STATION DISTANCE MAY NOT EQUAL TRUE DISTANCE DUE TO RADIUS. •

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 1 OF 15

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MTD.DGN	ONE	AUGUST 2011	MTD-1

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ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
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1	N.Y.		32	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

DRIVEWAY TABLE

DWY NO.	LOCATION STA.	LOCATION SIDE	EXISTING MATERIAL	CLASS	W	CORNER ANGLE	PL	TL	ENTRANCE TYPE	LENGTH
1A	1+796.501	RT	GRAVEL	R	3.6	90°	3.0	2.4	1	5.4
1B	1+831.349	LT	GRAVEL	R	3.6	90°	3.0	3.4	1	6.4
2	2+268.433	LT	DIRT	F	3.6	92°	3.0	5.5	1	8.5
3	2+306.856	RT	GRAVEL	R	3.6	105°	3.0	3.2	1	6.2
4	2+486.201	RT	AC	R	3.6	113°	6.4	N/A	1	6.4
5	2+529.150	RT	AC	R	3.6	56°	6.4	N/A	1	6.4
6	2+705.434	LT	GRAVEL	R	3.6	87°	3.0	6.6	1	9.6
7	3+101.133	RT	AC	R	3.6	70°	4.2	N/A	1	4.2
8A	MPD 10+026.545	LT	GRAVEL	R	3.6	90°	3.0	3.8	1	6.8
8B	3+329.878	RT	GRAVEL	R	3.6	75°	3.0	3.4	1	6.4
9	3+362.636	LT	AC	C	27.3	104°	7.0	N/A	1	7.0
10	3+373.803	RT	AC	C	6.0	89°	6.4	N/A	1	6.4
11	3+400.678	RT	GRAVEL	R	3.6	91°	3.0	3.4	1	6.4
12	3+459.637	RT	GRAVEL	R	3.6	87°	3.0	10.7	1	13.7
13	3+474.423	RT	GRAVEL	C	6.0	158°	3.0	13.4	1	16.4
14	3+473.580	LT	GRAVEL	C	3.6	110°	3.0	13.4	1	16.4
15	3+522.900	RT	AC	C	6.0	85°	14.4	N/A	1	14.4
16	3+530.759	RT	GRAVEL	R	3.6	90°	3.0	11.4	1	14.4
17	3+555.025	LT	AC	C	3.6	144°	16.4	NA	1	16.4
18	3+636.706	RT	GRAVEL	R	3.6	84°	3.0	13.4	1	16.4
19A	3+686.155	RT	GRAVEL	C	6.0	111°	3.0	10.2	1	13.2
19B	3+696.947	LT	GRAVEL	R	3.1	90°	3.0	1.5	1	4.5
20	3+761.162	LT	AC	••	7.3	82°	15.2	N/A	1	15.2
21	3+765.004	RT	GRAVEL	C	6.0	85°	3.0	3.4	1	6.4
22	3+818.516	RT	GRAVEL	R	3.6	87°	3.0	3.4	1	6.4
23	3+835.820	LT	AC	R	3.6	66°	5.6	N/A	1	5.6
24	3+853.545	RT	GRAVEL	C	3.6	90°	3.0	3.4	1	6.4
25	3+863.710	LT	AC	R	14.0	90°	3.5	N/A	1	3.5
27	3+940.052	LT	GRAVEL	R	3.6	29°	3.0	4.0	1	7.0
28	3+946.103	RT	GRAVEL	C	3.6	105°	3.0	3.4	1	6.4
29	3+987.560	LT	GRAVEL	R	3.3	90°	3.0	0.4	1	3.4
30A	4+020.480	LT	GRAVEL	R	2.6	90°	3.0	0.2	1	3.2
30B	4+032.362	LT	GRAVEL	R	3.6	90°	3.0	0.4	1	3.4
31	4+074.497	LT	GRAVEL	R	3.6	90°	3.0	2.2	1	5.2
32A	4+159.586	LT	AC	R	3.6	86°	9.4	N/A	4	9.4
32B	A 9+885.067	LT	GRAVEL	R	3.6	90°	3.0	3.0	1	6.0
32C	A 9+908.266	RT	GRAVEL	R	4.0	85°	3.0	3.8	1	6.8
32D	A 9+943.308	RT	GRAVEL	R	3.3	102°	3.0	3.8	1	6.8
33A	4+176.950	LT	GRAVEL	R	3.2	93°	3.0	4.2	4	7.2
33B	4+181.711	LT	GRAVEL	R	3.6	66°	3.0	3.4	4	6.4
34	4+194.554	RT	GRAVEL	R	3.6	90°	3.0	3.4	1	6.4
35	4+224.498	LT	AC	R	3.6	69°	14.2	N/A	4	14.2
36	4+225.128	RT	AC	R	3.1	82°	7.8	N/A	1	7.8
37	4+242.512	RT	AC	R	2.6	95°	8.3	N/A	1	8.3
38	4+273.722	LT	GRASS	R	3.2	90°	3.0	12.7	4	15.7
39	4+275.390	RT	AC	R	3.4	91°	6.4	N/A	1	6.4
40A	4+287.472	RT	GRASS	R	3.6	98°	3.0	7.0	1	10.0
40B	4+292.829	RT	GRAVEL	R	3.6	95°	3.0	7.0	1	10.0
40C	4+297.839	RT	GRAVEL	R	5.5	95°	3.0	7.0	1	10.0
41	4+295.539	LT	AC	R	4.8	81°	6.4	N/A	4	6.4
42	4+305.797	LT	GRAVEL	R	3.6	79°	3.0	3.4	4	6.4
43	4+313.351	LT	AC	C	3.9	77°	6.4	N/A	4	6.4
44	4+320.750	RT	GRAVEL	R	3.6	103°	3.0	3.4	1	6.4
45	4+322.269	LT	AC	C	4.8	70°	6.4	N/A	4	6.4
46	4+333.629	LT	AC	C	4.8	82°	5.5	N/A	4	5.5
47	4+362.254	RT	AC	R	3.1	101°	6.4	N/A	1	6.4

NOTE: DWY NO. 26 IS NOT USED
•• DRIVEWAY TO BE FUTURE TOWN OF NORTH ELBA ROAD

DRIVEWAY CULVERT TABLE

DWY. NO	LOCATION STA.	LOCATION SIDE	TYPE	600 (mm)	INVERT IN	INVERT OUT	NOTES
7	3+100	RT	CMP	600	548.170	548.020	INSTALL ON CENTERLINE OF DITCH. INSTALL WITH GALV. END SECTIONS

NOTES:

1. SEE THE STANDARD SHEETS "POLICY AND STANDARDS FOR THE DESIGN OF ENTRANCES TO STATE HIGHWAYS" FOR FURTHER DETAILS.
2. THE DESIGNER AND THE APPROPRIATE REFERENCES (SEE NOTE 1) SHALL BE CONSULTED BEFORE ADDING ADDITIONAL DRIVEWAYS OR CHANGING THE DRIVEWAY LAYOUT OR ENTRANCE TYPE.
3. FOR ALL DRIVEWAYS EXCEPT PORTLAND CEMENT CONCRETE DRIVEWAYS, THE PROPOSED DRIVEWAY MATERIAL FOR THE PAVEMENT LENGTH ("PL") IS ASPHALT CONCRETE UNLESS OTHERWISE NOTED IN THE TABLE.
4. TRANSITION LENGTH ("TL") IS ONLY APPLICABLE TO NON-PAVEMENT (STONE, GRAVEL, GRASS, OR DIRT) DRIVEWAYS EXTENDED BEYOND THE PAVEMENT LENGTH ("PL").
5. THE LENGTH OF ANY GRADING TRANSITION TO EXISTING DRIVEWAY PAVEMENT IS INCLUDED AS PART OF THE PAVEMENT LENGTH ("PL") (SEE 'TIE-IN TO EXISTING PAVED DRIVEWAYS' ON STANDARD SHEET 'DRIVEWAY DESIGN GUIDELINES').
6. SEE DWG. NO. MTD-9 FOR TYPICAL DRIVEWAY DETAILS.
7. SEE DWG. NO. DRV-1 TO DRV-7 FOR DRIVEWAY PROFILES.

TABLE DATA FORMAT/DEFINITIONS:

EXISTING MATERIAL
TYPICAL ENTRIES INCLUDE:
'AC' (ASPHALT CONCRETE)
'PCC' (PORTLAND CEMENT CONCRETE)
'STONE', 'GRAVEL', 'DIRT', OR 'GRASS'

CLASS (CLASSIFICATION)
TYPICAL ENTRIES INCLUDE:
'R' (RESIDENTIAL)
'C' (MINOR COMMERCIAL)
'M' (MAJOR COMMERCIAL)
'F' (FIELD ENTRANCE)

W = WIDTH OF DRIVEWAY

CORNER ANGLE (IN) = ANGLE BETWEEN ROADWAY AND DRIVEWAY AS IF TURNING FROM THE ROADWAY ONTO THE DRIVEWAY (60° TO 120° ALLOWABLE).

PL = DRIVEWAY PAVEMENT LENGTH (MEASURED FROM EDGE OF TRAVEL LANE)

TL = DRIVEWAY TRANSITION LENGTH

LENGTH (L) = PL+TL (MEASURED FROM EDGE OF TRAVEL LANE)

ENTRANCE TYPE
TYPICAL ENTRIES INCLUDE: '1', '2', '3', OR '4'
(TYPES 1 AND 2 USE RADIUS, TYPE 3 AND 4 USE TAPER, SEE STANDARD SHEET 'DRIVEWAY ENTRANCE DETAILS')

8. REFERENCE NYSDOT STANDARD SHEETS: M608-6, M608-7R1, M608-8, M608-9 FOR DRIVEWAY DETAILS.

PAY ITEM	DESCRIPTION
203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL
203.03 M	EMBANKMENT IN PLACE
304.14 M	SUBBASE COURSE, TYPE 4
608.020102 M	ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS, AND BICYCLE PATHS
608.020110 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 608.020101 M.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 2 OF 15

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MTD.DGN	ONE	AUGUST 2011	MTD-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		33	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

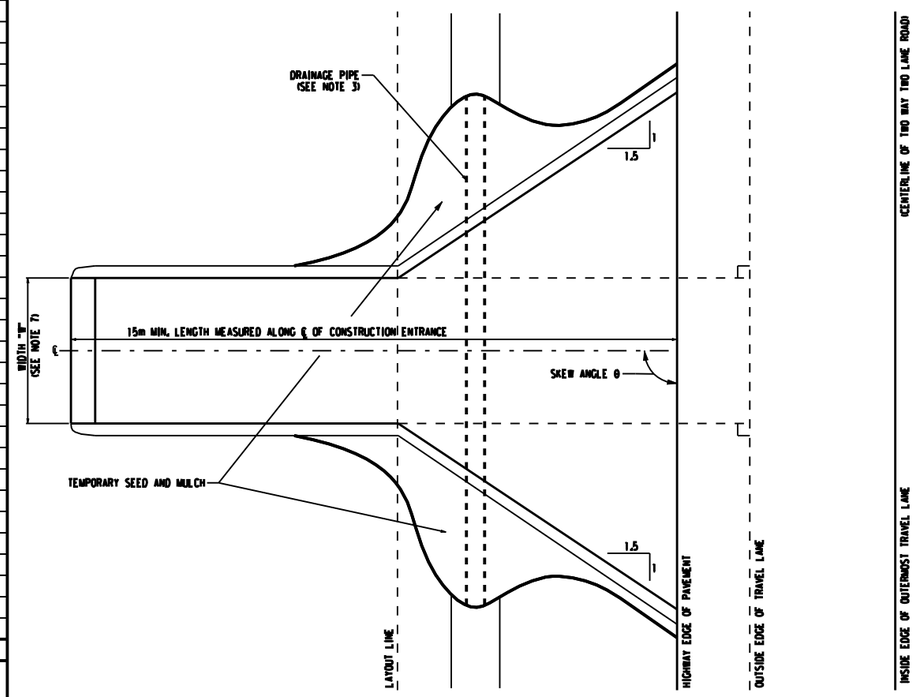
TABLE OF WHITE PAINT REFLECTORIZED PAVEMENT STRIPES (0.51mm) - ITEM 640.20M

STA TO STA.		SIDE (LT/RT)	DESCRIPTION	LENGTH	PAY FACTOR	PAY LENGTH (m)
1+785	3+404.5	RT	100mm WHITE SOLID	1619.5	1	1,619.5
1+785	1+983.9	LT	100mm WHITE SOLID	198.9	1	198.9
1+983.9	CA 10+019.4*	LT	100mm WHITE SOLID	22.5	1	22.5
CA 10+019.4	CA 10+030	LT	100mm WHITE SOLID	10.6	1	10.6
CA 10+030	CA 10+014.2	RT	100mm WHITE SOLID	15.8	1	15.8
CA 10+014.2	2+016.3*	LT	100mm WHITE SOLID	18.3	1	18.3
2+016.3	3+304.2	LT	100mm WHITE SOLID	1287.9	1	1,287.9
3+304.2	MPD 10+018.8*	LT	100mm WHITE SOLID	21.6	1	21.6
MPD 10+018.8	MPD 10+045	LT	100mm WHITE SOLID	26.2	1	26.2
MPD 10+045	MPD 10+015	RT	100mm WHITE SOLID	30.0	1	30.0
MPD 10+015	3+336.2*	LT	100mm WHITE SOLID	19.6	1	19.6
3+336.2	3+404.5	LT	100mm WHITE SOLID	68.3	1	68.3
3+409.5	4+088.1	RT	100mm WHITE SOLID	678.6	1	678.6
3+409.5	3+751.6	LT	100mm WHITE SOLID	342.1	1	342.1
3+751.6	3+754.8*	LT	100mm WHITE SOLID	4.5	1	4.5
3+768.3	3+771.7*	LT	100mm WHITE SOLID	4.5	1	4.5
3+771.7	4+113.6	LT	100mm WHITE SOLID	341.9	1	341.9
4+113.6	A 10+014.6*	LT	100mm WHITE SOLID	18.4	1	18.4
A 10+014.6	A 10+040.0	LT	100mm WHITE SOLID	25.4	1	25.4
A 10+040	A 10+024.5	RT	100mm WHITE SOLID	15.5	1	15.5
A 10+024.5	4+151.9*	LT	100mm WHITE SOLID	27.0	1	27.0
4+151.9	4+375	LT	100mm WHITE SOLID	223.1	1	223.1
4+088.1	AA 9+967.9*	LT	100mm WHITE SOLID	22.5	1	22.5
AA 9+967.9	A 9+880*	LT	100mm WHITE SOLID	91.8	1	91.8
A 9+880	A 9+992.2	RT	100mm WHITE SOLID	112.2	1	112.2
A 9+992.2	4+135.5*	RT	100mm WHITE SOLID	11.8	1	11.8
4+135.5	4+375	RT	100mm WHITE SOLID	239.5	1	239.5
SPLITER ISLAND		-	100mm WHITE SOLID	73.2	1	73.2
SPLITTER ISLAND GORE		℄	100mm WHITE SOLID	11.0	6	66.0
CA 10+006		LT	450 mm STOP BAR	9.8	4.5	44.1
MPD 10+007		LT	450 mm STOP BAR	9.0	4.5	40.5
3+340.0		RT	RR TRANSVERSE BAR	3.6	6	21.6
3+347.5		RT	RR CROSSING 'X'	13.0	4	52.0
3+355.0		RT	RR TRANSVERSE BAR	3.6	6	21.6
3+400.4		RT	RR STOP BAR	3.6	6	21.6
3+404.5		℄	100mm WHITE SOLID RR ENV.	10.2	1	10.2
3+409.5		℄	100mm WHITE SOLID RR ENV.	10.2	1	10.2
3+413.6		LT	RR STOP BAR	3.6	6	21.6
3+477.0		LT	RR TRANSVERSE BAR	3.6	6	21.6
3+484.5		LT	RR CROSSING 'X'	13.0	4	52.0
3+492.0		LT	RR TRANSVERSE BAR	3.6	6	21.6
A 9+992.2		RT	450mm STOP BAR	4.2	4.5	18.9
A 10+008.5		LT	450mm STOP BAR	4.2	4.5	18.9
		LT	CROSSWALK AVERYVILLE RD	120.0	3	360.0
					TOTAL	6,374

STA. TO STA DISTANCE MAY NOT EQUAL TRUE DISTANCE DUE TO RADIUS

TABLE OF WHITE PAINT REFLECTORIZED PAVEMENT LETTERS (0.51mm) - ITEM 640.22

STATION	SIDE (LT/RT)	DESCRIPTION	EACH
3+348	RT	R LETTER	2
3+483	LT	R LETTER	2
		TOTAL	4



TYPICAL CONSTRUCTION ENTRANCE PLAN
ITEM 209.22M

NOTE: SEE STANDARD SHEET M209-7. LOCATIONS AOBE.

TABLE OF YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES (0.51mm) - ITEM 640.21M

STA TO STA.		SIDE (LT/RT)	DESCRIPTION	LENGTH	PAY FACTOR	PAY LENGTH (m)
1+785.0	1+995.5	℄	100mm FULL BARRIER	210.5	2	421.0
2+010.5	3+314.0	℄	100mm FULL BARRIER	1303.5	2	2,607.0
3+329.0	3+404.5	℄	100mm FULL BARRIER	75.5	2	151.0
3+409.5	3+756.0	℄	100mm FULL BARRIER	346.5	2	693.0
3+767.0	4+118.0	℄	100mm FULL BARRIER	351.0	2	702.0
4+140.0	4+375.0	℄	100mm FULL BARRIER	235.0	2	470.0
CA 10+006.0	CA 10+030.0	℄	100mm FULL BARRIER	24.0	2	48.0
MPD 10+007.0	MPD 10+045.0	℄	100mm FULL BARRIER	38.0	2	76.0
A 9+880.0	A 9+992.0	℄	100mm FULL BARRIER	12.0	2	24.0
A 10+008.5	A 10+040.0	℄	100mm FULL BARRIER	31.5	2	63.0
AA 10+024.7*	AA 10+050.0*	LT	100mm SOLID	25.0	1	25.0
					TOTAL	5,280

STA. TO STA DISTANCE MAY NOT EQUAL TRUE DISTANCE DUE TO RADIUS

ALL DIMENSIONS ARE IN mmUNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 3 OF 15

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MTD.DGN	ONE	AUGUST 2011	MTD-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		34	205

P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY

TABLE OF SIDESLOPE TREATMENTS - STA. LEFT

STA.	TREATMENT	B.S.	TREATMENT
1+800±	BEGIN FILL	1 ON 4	A
CA 10+030±	END FILL	1 ON 4	A
CA 10+020±	BEGIN FLAT BOTTOM SWALE	1 ON 4	F
2+060±	END FLAT BOTTOM SWALE, BEGIN FILL	1 ON 4	F,A
2+140±	END FILL, BEGIN FLAT BOTTOM SWALE	1 ON 4	A,F
2+210±	END FLAT BOTTOM SWALE, BEGIN FILL	1 ON 3	F,A
2+440±	BEGIN FILL	1 ON 4	A
2+630±	END FILL, BEGIN FLAT BOTTOM SWALE	1 ON 4	A,F
2+695±	END FLAT BOTTOM SWALE, BEGIN CONCRETE GUTTER	1 ON 2	F,B
2+980±	END CONCRETE GUTTER, BEGIN FLAT BOTTOM SWALE	1 ON 2	B,F
3+260±	END FLAT BOTTOM SWALE, BEGIN FILL	1 ON 4	F,A
MPD 10+045±	END FILL	1 ON 4	A
MPD 10+015±	BEGIN CONCRETE GUTTER	1 ON 3	B
3+405±	END CONCRETE GUTTER	1 ON 3	B
3+409±	BEGIN CURBING WITH PROVISIONS FOR MULTI USE PATH	1 ON 2	C
3+596±	END CURBING WITH PROVISIONS FOR MULTI USE PATH	1 ON 2	C
3+628±	BEGIN CURBING WITH PROVISIONS FOR MULTI USE PATH	1 ON 2	C
3+750±	END CURBING WITH PROVISIONS FOR MULTI USE PATH	1 ON 2	C
3+772±	BEGIN CONCRETE GUTTER	1 ON 2	B
3+790±	BEGIN RETAINING WALL, CONTINUE CONCRETE GUTTER		E
3+833±	END RETAINING WALL, CONTINUE CONCRETE GUTTER	1 ON 2	E,B
4+109±	END CONCRETE GUTTER, BEGIN CURBING AND SIDEWALK	1 ON2	B,D
A 10+025±	END CURBING AND SIDEWALK	1 ON 2	D
A 10+025±	BEGIN CURBING AND SIDEWALK	1 ON 2	D
4+200±	BEGIN RETAINING WALL, CONTINUE CURBING AND SIDEWALK		G
4+293±	END RETAINING WALL, CONTINUE CURBING AND SIDEWALK	1 ON 2	G,D
4+414±	END CURBING AND SIDEWALK	1 ON 2	D

TABLE OF SIDESLOPE TREATMENTS - STA. RIGHT

STA.	TREATMENT	B.S.	TREATMENT
1+800±	BEGIN FLAT BOTTOM SWALE	1 ON 4	F
1+980±	END FLAT BOTTOM SWALE, BEGIN CONCRETE GUTTER	1 ON 2	F,B
2+110±	BEGIN RETAINING WALL, CONTINUE CONCRETE GUTTER		E
2+210±	END RETAINING WALL, CONTUNUE CONCRETE GUTTER	1 ON 2	E,B
2+525±	END CONCRETE GUTTER, BEGIN FLAT BOTTOM SWALE	1 ON 4	B,F
2+695±	END FLAT BOTTOM SWALE, BEGIN CONCRETE GUTTER	1 ON 2	F,B
2+890±	BEGIN RETAINING WALL, CONTINUE CONCRETE GUTTER		E
2+980±	END RETAINING WALL, BEGIN FLAT BOTTOM SWALE, END CONCRETE GUTTER	1 ON 2	E,F
3+160±	END FLAT BOTTOM SWALE, BEGIN CONCRETE GUTTER AND RETAINING WALL		F,E
3+230±	END RETAINING WALL, CONTINUE CONCRETE GUTTER	1 ON 2	E,B
3+325±	CONTINUE CONCRETE GUTTER	1 ON 4	B
3+286±	BEGIN RETAINING WALL, CONTINUE CONCRETE GUTTER		E
3+308±	END RETAINING WALL, CONTINUE CONCRETE GUTTER		E,B
3+405±	END CONCRETE GUTTER	1 ON 3	B
3+409±	BEGIN CONCRETE GUTTER	1 ON 3	B
3+510±	END CONCRETE GUTTER, BEGIN BRIDGE APPROACH SECTION	1 ON 2	B,H
3+593±	END BRIDGE APPROACH SECTION	1 ON 2	H
3+623±	BEGIN BRIDGE APPROACH SECTION	1 ON 2	H
3+740±	END BRIDGE APPROACH SECTION, BEGIN CONCRETE GUTTER	1 ON 4	H, B
3+833±	END CONCRETE GUTTER, BEGIN NORMAL FILL SECTION	1 ON 4	B,A
A 9+880±	END NORMAL FILL SECTION	1 ON 4	A
A 9+880±	BEGIN NORMAL FILL SECTION	1 ON 4	A
A 9+930±	END NORMAL FILL SECTION, BEGIN CONCRETE GUTTER	1 ON 2	A,B
4+200±	END CONCRETE GUTTER, BEGIN NORMAL FILL SECTION	1 ON 4	B,A
4+360±	END NORMAL FILL SECTION	1 ON 4	A

FOR EDGE TREATMENT DETAILS, SEE DWG'S. TS-3 & TS-4

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 4 OF 15

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MTD.DGN	ONE	AUGUST 2011	MTD-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		35	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

TABLE OF CULVERT REMOVALS

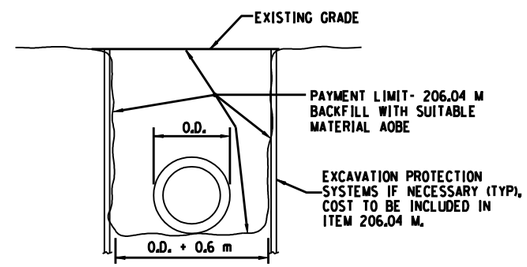
REMOVAL NO.	STA	OFFSET	TYPE	LENGTH (METERS)	AVERAGE DEPTH	ITEM 206.04M (CM)
1•	2+515±	LT/RT	450mm HDPE CROSS	14±	1.±	15±
2••	3+695±	LT/RT	CATCH BASIN W/ 400mm CMP	18±	1.5±	26±
3••	A 9+910±	RT	300mm CMP	16±	.4±	6±
4•	A 9+925±	LT/RT	450mm RCMP	17±	1.6±	29±
5••	A 9+945±	RT	305mm HDPE	8±	.4±	3±
6•	4+183±	LT/RT	CATCH BASIN W/ 450mm CMP	10±	1.4±	15±
7••	4+537±	LT/RT	CATCH BASIN W/ 300mm CMP	19±	.9±	15±
8 a°ø 9••	4+620± TO 4+750±	LT	(3) CATCH BASINS W/ 300mm RCMP	150±	.7±	100±
					TOTAL	209±

• = REMOVAL PAID FOR UNDER RESPECTIVE NEW PIPE/DITCH ITEMS
•• = REMOVAL PAID FOR UNDER ITEM 206.04M, SEE SPECIAL DETIAL THIS DWG.

TABLE OF SNOWPLOWING MARKERS

STATION	SIDE	COLOR	ITEM NUMBER ITEM 646.22 M SINGLE	ITEM NUMBER ITEM 646.22 M DOUBLE
3+545±	RT	GREEN		1
3+545± TO 3+673±	RT	WHITE	5	
3+673±	RT	GREEN	1	
3+562±	LT	GREEN	1	
3+562± TO 3+745±	LT	WHITE	9	
3+745±	LT	GREEN		1
	TOTAL		16	2

ITEM 646.22 M - DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS



REMOVAL OF EXISTING PIPES
NOT TO SCALE

TABLE OF SAWCUTTING

STA TO STA.		ITEM 520.5014--08 M LENGTH (m)
1+785	1+790	12.0
4+370	4+375	12.0
CAROLYN RD, MILL POND DRIVE,RAILROAD, & AVERYVILLE RD		
C 10030		6.3
MPD 10045		8.4
3+405		8.0
3+409		8.0
A 9+880		6.9
A 10+040		6.6
ASPHALT CONCRETE DRIVEWAYS		
2+486	DWY #4	3.6
2+529	DWY#5	3.6
3+101	DWY#7	3.6
3+363	DWY#9	27.3
3+374	DWY#10	6.0
3+523	DWY#15	6.0
3+555	DWY#17	3.6
3+836	DWY#23	3.6
3+864	DWY#25	14.0
4+160	DWY#32A	3.6
4+225	DWY#35	3.6
4+225	DWY#36	3.1
4+243	DWY#37	2.6
4+275	DWY#39	3.4
4+296	DWY#41	4.8
4+313	DWY#43	3.9
4+322	DWY#45	4.8
4+334	DWY#46	4.8
4+362	DWY#47	3.1
DRAINAGE IMPROVEMENT (4+370± TO 4740±)		
4+370± TO 4+740±		740.0
4+410± CROSS		18.0
4+472± CROSS		18.0
4+547± CROSS		18.0
4+632± CROSS		18.0
4+682± CROSS		18.0
4+740± CROSS		18.0
TOTAL		1,025

ITEM 520.5014--08 M - SAWCUTTING ASPHALT

VILLAGE OF LAKE PLACID, TOWN OF NORTH ELBA, ESSEX COUNTY, OLD MILITARY ROAD - C.R. 35
PROPERTIES TO BE ACQUIRED

MAP NO.	PARCEL NO.	REPUTED OWNER(S)	LIBER	PAGE	POINT OF BEGINNING SURVEY BASELINE	TYPE OF TAKE	AREA SQ. M.±	AREA HECTARE±	REMARKS
1	1	GARY PESUIT AND DIANA PESUIT	1333	215	STA. 2+003.6± 14.5±m LT.	FEE	50.5	0.0051	
2	1	PATRICIA M. PRESTON	1250	225	STA. 2+123.9± 14.6±m LT.	FEE	11.7	0.0012	
3	1	FAWN RIDGE LLC	1492	175	STA. 2+143.6± 15.2±m LT.	FEE	3.1	0.0003	
4	1	RICHARD RODZINSKI	1034	145	STA. 2+653.0± 10.7±m LT.	FEE	23.6	0.0024	
5	1	RICHARD B. BOYER	1263	4	STA. 3+375.3± 8.3±m RT.	FEE	249.6	0.0250	
	2	RICHARD B. BOYER	1263	4	STA. 3+433.0± 8.7±m RT.	FEE	27.1	0.0027	
-	-	NO MAP	-	-	-	-	-	-	
7	1	DONNA LOUD, THOMAS LINCOLN, SANDRA FORSTER, KATHY LINCOLN, PATRICIA LINCOLN, DIANE KENNEDY, MARY RILEY, THERESA HEINRICH, AND JAY H. LINCOLN	1110	136	STA. 3+453.6± 8.8±m LT.	FEE	19.2	0.0019	
8A	1	LAKE PLACID VILLAGE	252	300	STA. 3+473.7± 8.4±m LT.	FEE	9.1	0.0009	
8B	1	LAKE PLACID VILLAGE	442	593	STA. 3+650.1± 2.8±m LT.	FEE	2525.0	0.2525	
8C	1	LAKE PLACID VILLAGE	442	593	STA. 3+688.1± 18.3±m LT.	PE	6938.4	0.6938	
9	1	RIVER BEND TOWNHOMES' ASSOC., INC.	1583	160	STA. 3+763.4± 9.6±m LT.	PE	2669.2	0.2669	
10	1	TRACY DABY AND EUGENA BARRAZA	1385	241	STA. 4+277.8± 15.6±m LT.	FEE	19.3	0.0019	
11	1	CHRISTOPHER THEOBALD	1433	321	STA. 4+244.2± 50.2±m RT.	FEE	584.9	0.0585	
11A	1A	CHRISTOPHER THEOBALD	1433	321	STA. 4+257.8± 41.3±m RT.	TO	231.1	0.0231	
12	1	JOYCE EVANS	1105	166	STA. "A"0+048.9± 11.9±m LT.	FEE	78.4	0.0078	
13	1	PHYLLIS P. MIHILL AND KENNETH I. MIHILL	850	262	STA. 4+297.6± 15.8±m LT.	FEE	21.8	0.0022	

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AS BUILT REVISIONS

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MISCELLANEOUS TABLES AND DETAILS
SHEET 5 OF 15

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MTD.DGN	ONE	AUGUST 2011	MTD-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		36	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

TABLE OF CHECK DAMS - ITEM 209.110102 M
CHECK DAM (DITCH BOTTOM WIDTH >1.0 TO 2.0m), STONE - TEMPORARY

STA TO STA.		SIDE (LT/RT)	MAXIMUM SLOPE (%)	MAXIMUM SPACING (m)	QYT.
1+800±	1+873±	RT	0.7%	90	1
1+873±	1+980±	RT	3.5%	18	5
CA 10+020±	2+060±	LT	3.5%	18	4
2+140±	2+210±	LT	3.5%	18	4
2+515±	2+695±	RT	3.5%	18	10
2+630±	2+695±	LT	3.5%	18	4
				TOTAL	28

TABLE OF CHECK DAMS - ITEM 209.110102 M
CHECK DAM (DITCH BOTTOM WIDTH >1.0 TO 2.0m), STONE - PERMANENT

STA TO STA.		SIDE (LT/RT)	MAXIMUM SLOPE (%)	MAXIMUM SPACING (m)	QYT.
2+980±	3+260±	LT	10.5%	6	47
2+980±	3+160±	RT	10.5%	6	30
				TOTAL	77

NOTE: PERMANANT STONE CHECK DAMS TO REMAIN IN PLACE.

TABLE OF SILT FENCE - ITEM 209.13 M

STA TO STA.		SIDE (LT/RT)	LENGTH (m)
1+780±	2+000±	LT	220
2+060±	2+140±	LT	80
2+210±	2+630±	LT	420
3+210±	3+310±	LT	100
MPD 10+005±	MPD 10+045±	LT	40
MPD 10+005±	MPD 10+045±	RT	40
3+330±	3+410±	LT	80
3+340±	3+410±	RT	70
3+495±	3+750±	LT	255
3+495±	3+740±	RT	245
3+840±	4+100±	RT	260
A 10+005±	A 9+880±	LT	125
A 9+880±	A 9+950 ±	RT	70
4+170±	4+260±	RT	90
		TOTAL	2,095

TABLE OF SEDIMENT TRAP - 209.140201 M

STRUCTURE	QUANTITY
CHUBB RIVER BRIDGE N. ABUT.	1
CHUBB RIVER BRIDGE S. ABUT.	1
TOTAL	2

SEE BRIDGE WATER POLLUTION CONTROL PLAN FOR LOCATIONS

TABLE OF TURBIDITY CURTAIN - ITEM 209.1501 24 M

LOCATION	LENGTH (m)
CHUBB RIVER BRIDGE N. ABUT	60
CHUBB RIVER BRIDGE S. ABUT	57
TOTAL	117

SEE BRIDGE WATER POLLUTION CONTROL PLAN FOR LOCATIONS

TABLE DRAINAGE STRUCTURE INLET PROTECTION - GRAVEL BAG TEMPORARY ITEM 209.1702 M

DS NO.	SIDE	TYPE	QYT	VOLUME
DS 101 TO DS 107A	RT	GB	8	6
DS 109	RT	GB	1	1
DS 112B TO DS 137	LT/RT	GB	21	17
DS 138B	LT/RT	GB	1	1
DS 138D	LT/RT	GB	1	1
DS 140 TO DS 180	LT/RT	GB	31	25
TOTAL				51

ITEM 209.200201M - ROLLED EROSION CONTROL PRODUCT, CLASS III, TYPE B, PERMANENT

STATION	STATION	SIDE	AREA (SQM)
2+695±	3+260±	LT	838
3+409±	4+414±	LT	1,741
1+980±	2+515±	RT	894
2+695±	3+325±	RT	713
3+510±	3+740±	RT	537
A 9+930±	4+200±	RT	164
		TOTAL	4,887

NOTE: FOR INLET AND OUTLET PROTECTION SEE STONE APRON TABLE ON MTD-10

R.O.W. MARKERS

℄ STATION	SIDE	OFFSET	ITEM 625.05 M
1+869.160	LT	9.975	1
1+869.160	LT	16.534	1
1+876.860	LT	16.534	1
1+876.860	LT	9.976	1
1+989.985	LT	9.886	1
1+993.075	LT	15.610	1
2+008.914	LT	12.627	1
2+011.798	LT	10.108	1
2+514.484	LT	10.350	1
2+513.346	LT	15.037	1
2+519.100	LT	15.033	1
2+519.074	LT	10.392	1
3+155.083	RT	8.783	1
3+176.300	RT	10.585	1
3+197.501	RT	10.577	1
3+230.381	RT	9.588	1
3+275.742	RT	9.799	1
3+289.402	RT	13.107	1
3+289.894	RT	9.282	1
3+307.727	LT	10.960	1
3+311.856	LT	18.541	1
3+326.541	LT	14.859	1
3+330.896	LT	9.552	1
3+502.874	LT	9.521	1
3+545.289	LT	19.906	1
3+589.446	LT	22.602	1
3+554.423	LT	50.406	1
3+507.649	LT	104.706	1
3+450.393	LT	96.478	1
3+449.993	LT	103.982	1
3+481.202	LT	117.508	1
3+508.655	LT	133.659	1
3+534.574	LT	137.686	1
3+579.395	LT	131.480	1
3+605.949	LT	122.578	1
3+625.518	LT	100.484	1
3+630.770	LT	86.134	1
3+631.348	LT	73.500	1
3+599.405	LT	43.791	1
3+703.363	LT	28.206	1
3+702.398	LT	13.230	1
3+752.439	LT	10.850	1
3+752.436	LT	9.713	1
4+078.893	RT	78.971	1
4+095.856	RT	54.856	1
4+129.687	RT	8.952	1
4+120.907	LT	11.073	1
4+126.683	LT	19.501	1
4+141.612	LT	17.472	1
4+147.783	LT	11.182	1
TOTAL			50

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SHEET 6 OF 15

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ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MTD.DGN	ONE	AUGUST 2011	MTD-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

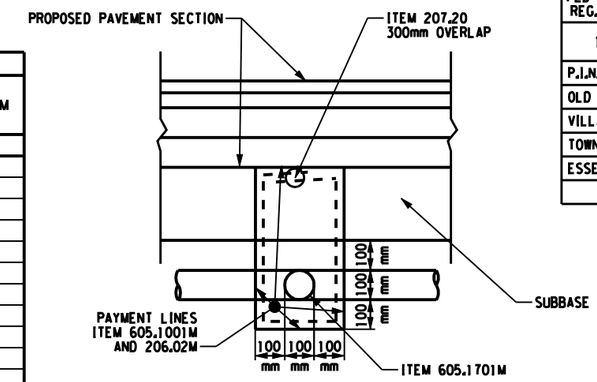
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		37	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

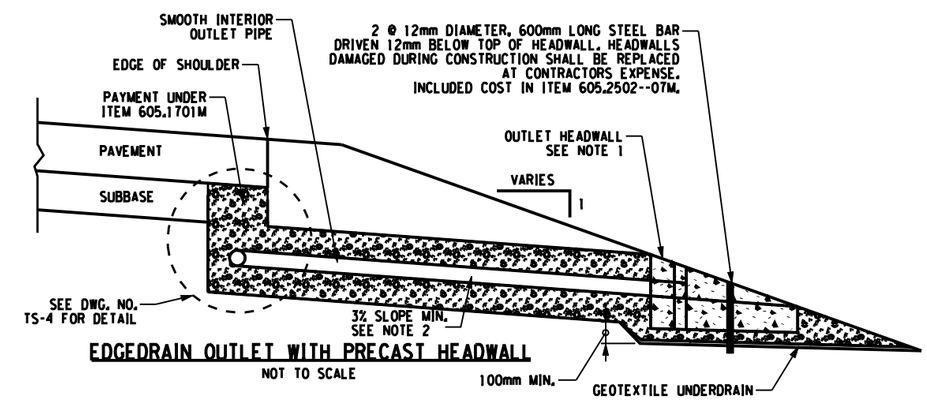
TABLE OF EDGEDRAIN

STA TO STA.		SIDE (LT/RT)	OUTLET POINT	*ITEM 605.1701 M (METERS)*	TRENCH DIMENSIONS WIDTH (METERS)	TRENCH DIMENSIONS DEPTH (METERS)	ITEM 206.02 M (CM)	ITEM 207.20 M (SM)	ITEM 605.1001 M (CM)	ITEM 605.2502 07 M (EACH)
SHOULDER EDGE										
1+800	1+970	RT	DRAINAGE STRUCTURES	170	0.300	0.600	31	357	31	
1+800	CA 10+000	LT	PRECAST HEADWALLS	242	0.300	0.600	44	508	44	3
1+970	2+345	RT	DRAINAGE STRUCTURES	375	0.300	0.600	68	788	68	
CA 10+030	2+695	LT	PRECAST HEADWALLS	735	0.300	0.600	132	1544	132	10
3+345	2+695	RT	TRANSVERSE TO STA LT UNDERDRAIN	401	0.300	0.600	72	842	72	
3+695	3+510	RT	DRAINAGE STRUCTURES	815	0.300	0.600	147	1712	147	
2+695	3+510	LT	DRAINAGE STRUCTURES	815	0.300	0.600	147	1712	147	
3+510	3+740	LT	DRAINAGE STRUCTURES	230	0.300	0.600	41	483	41	
3+740	4+370	RT	DRAINAGE STRUCTURES	650	0.300	0.600	117	1365	117	
3+740	4+370	LT	DRAINAGE STRUCTURES	630	0.300	0.600	113	1323	113	
A 9+880	A 9+995	RT/LT	PRECAST HEADWALLS	246	0.300	0.600	44	517	44	4
A 10+005	A 10+040	RT/LT	DRAINAGE STRUCTURES	70	0.300	0.600	13	147	13	
SPLITTER ISLAND		RT/LT	TRANSVERSE TO STA LT UNDERDRAIN	80	0.300	0.600	14	168	14	
STONE SWALES										
1+800	1+980	RT	DRAINAGE STRUCTURES	180	0.300	0.600	32	378	32	
CA 10+030	2+060	LT	PRECAST HEADWALLS	94	0.300	0.600	17	197	17	1
2+140	2+210	LT	PRECAST HEADWALLS	74	0.300	0.600	13	155	13	1
2+515	2+695	RT	PRECAST HEADWALLS	188	0.300	0.600	34	395	34	2
2+630	2+695	LT	PRECAST HEADWALLS	69	0.300	0.600	12	145	12	1
2+980	3+160	RT	DRAINAGE STRUCTURES	180	0.300	0.600	32	378	32	
2+980	3+260	LT	DRAINAGE STRUCTURES	280	0.300	0.600	50	588	50	
			TOTAL	6524			1174	13700	1174	22

ITEM 206.02 M - TRENCH AND CULVERT EXCAVATION
ITEM 207.20 M - GEOTEXTILE BEDDING
ITEM 605.1001 M - UNDERDRAIN FILTER - TYPE II
ITEM 605.1701 M - OPTIONAL UNDERDRAIN PIPE, 100 mm DIAMETER
ITEM 605.2502 07 - PRECAST CONCRETE HEADWALLS FOR 100MM LATERAL OUTLET PIPES
NOTE: (*) LENGTHS LONGER THAN STA.-STA. DIFFERENCE TO ACCOUNT FOR EDGEDRAIN DAY LIGHTING



TRANSVERSE UNDERDRAIN DETAIL
NOT TO SCALE



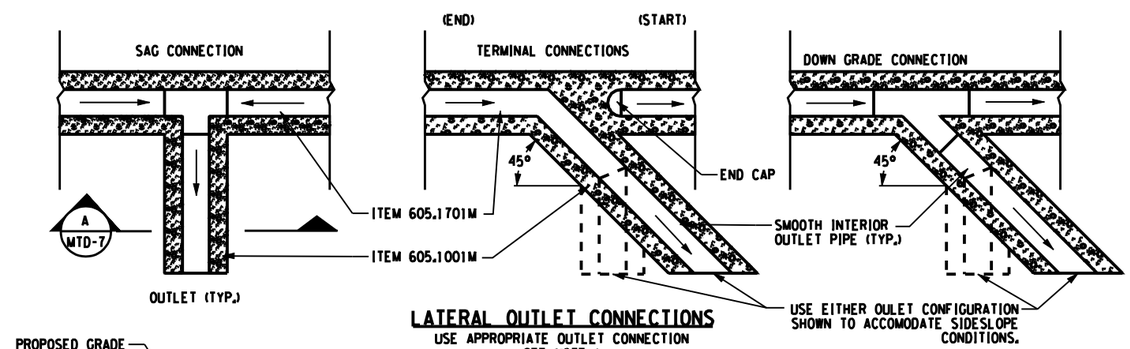
EDGEDRAIN OUTLET WITH PRECAST HEADWALL
NOT TO SCALE

NOTES:

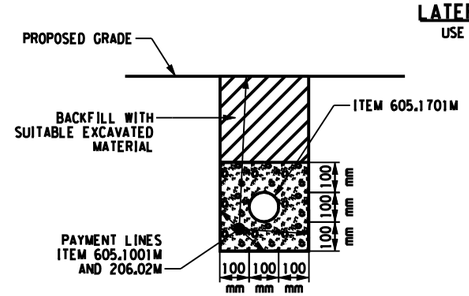
1. LATERAL OUTLETS SHALL BE 100mm MINIMUM INSIDE DIAMETER SMOOTH INTERIOR PIPE PLACED APPROCIMATELY EVERY 75m FOR PIPE EDGEDRAINS. ADJUSTMENTS MAY BE MADE FOR LOCAL CONFLICTS. THE SPACING SHOULD NOT EXCEED 90m FOR PIPE EDGEDRAINS. WHERE THE ROADWAY PROFILE HAS LESS THAN A 1% GRADE, THE SPACING SHOULD BE REDUCED TO APPROXIMATELY 60m WITH A MAXIMUM OF 75m FOR PIPE EDGEDRAINS.
2. SLOPE OUTLET PIPES A MINIMUM 3%.
3. EXCAVATION FOR THE EDGE DRAIN SYSTEM SHALL BE PERFORMED AFTER THE SUBBASE IS INSTALLED AND COMPACTED.

BORING LOGS

	BORING HOLE NO.	BASELINE STATION	SIDE/OFFSET	ELEVATION
HIGHWAY	DAH-4	2+159.971	LT 3.7±	571.7
	DAH-5	2+876.792	RT 2.5±	582.5
	DAH-6	3+039.075	RT 3.0±	567.3
	DAH-7	3+296.318	RT 2.5±	547.6
	DAH-8	3+546.459	RT 0.4±	531.4
	DAH-9	4+201.585	LT 1.1±	537.3
	DAH-10	4+325.512	LT 6.9±	540.2
BRIDGE	DAB-1	3+754.893	LT 20.0±	527.2
	DAB-2	3+780.380	LT 10.9±	527
RETAINING WALL	B-1	2+251.427	RT 4.9±	575.4
	B-2	2+335.836	RT 9.5±	578.1
	B-3	3+037.178	RT 12.0±	567.9
	B-4	3+080.097	RT 9.1±	564
	B-5	3+309.326	RT 14.8±	548.4
	B-6	3+367.764	RT 6.6±	544.6
	B-7	3+953.181	LT 13.0±	534.5
	B-8	3+980.562	LT 11.7±	535.2
	B-9	4+394.925	LT 1.3±	541.4
	B-10	4+444.355	RT 2.1±	541.9



LATERAL OUTLET CONNECTIONS
USE APPROPRIATE OUTLET CONNECTION
SEE NOTE 1



OUTLET DETAIL
SECTION A-A
NOT TO SCALE

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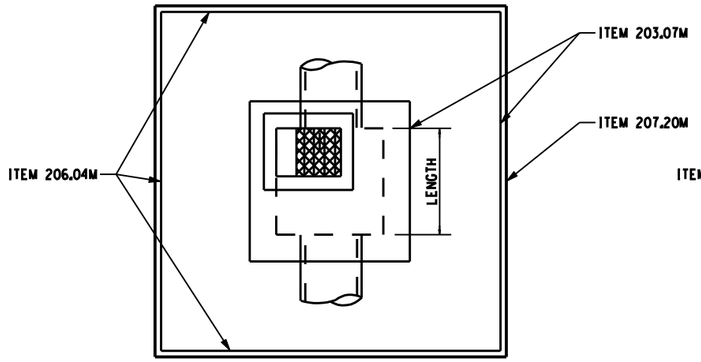
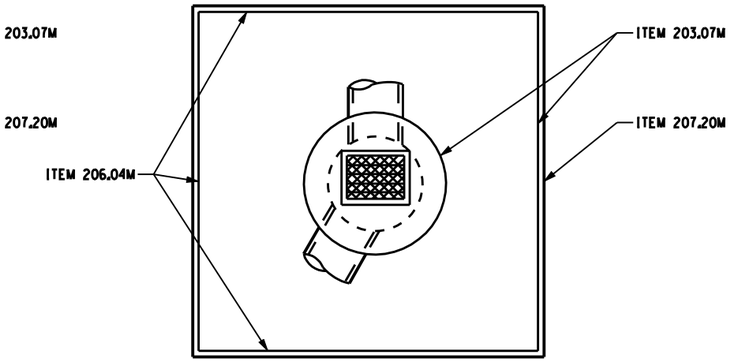


SECTION A-A



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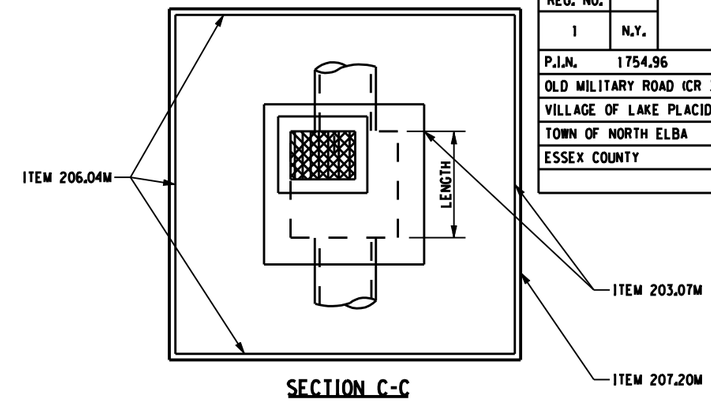

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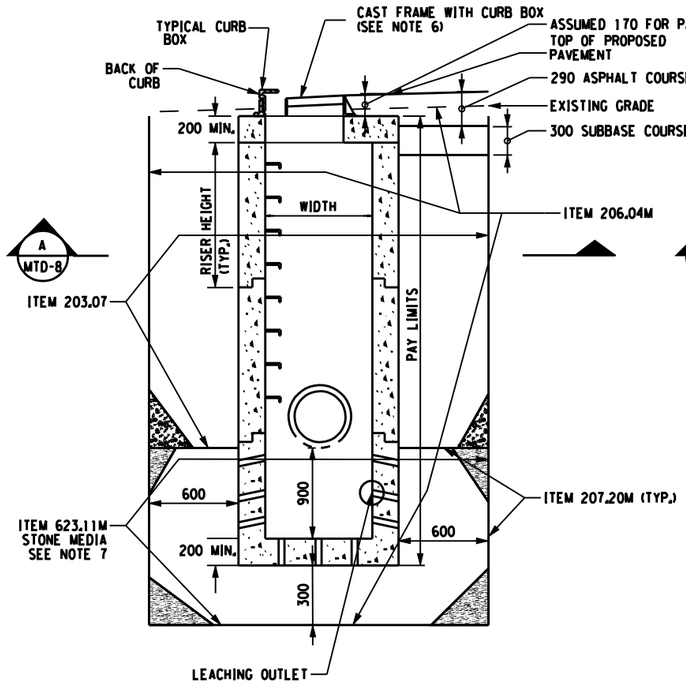
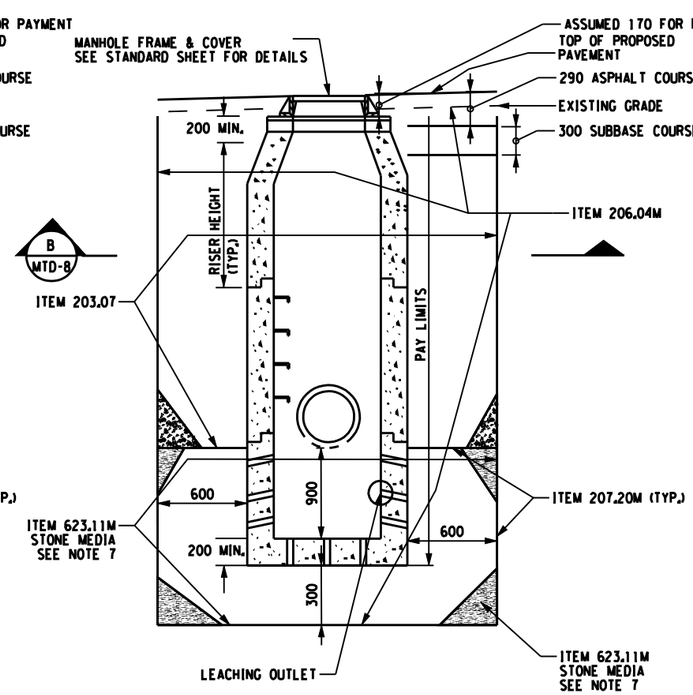


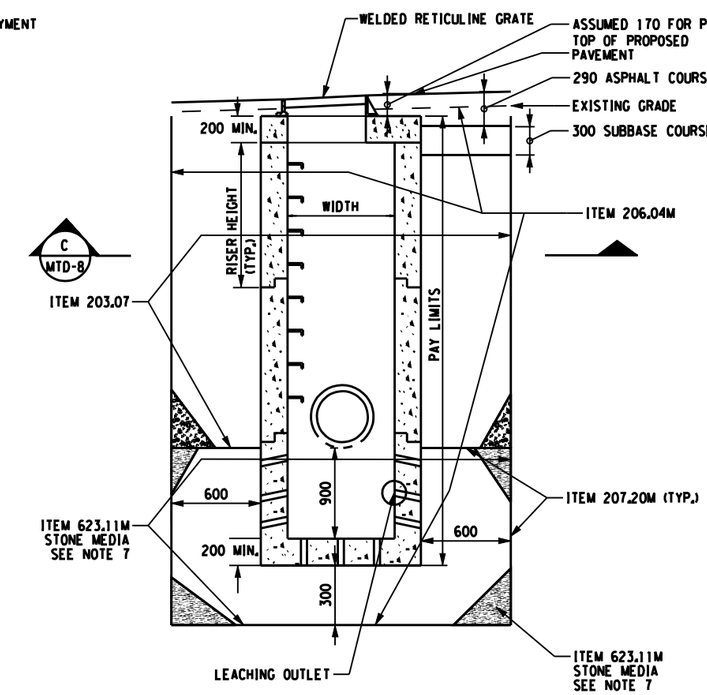
RECTANGULAR DRAINAGE STRUCTURE
TYPE F&K WITH UNMOUNTABLE CURB BOX
& RETICULINE GRATE & LEACHING BASIN

NOT TO SCALE



ROUND DRAINAGE STRUCTURE
TYPE 48 & 60
WITH MANHOLE & LEACHING BASIN

NOT TO SCALE



RECTANGULAR DRAINAGE STRUCTURE
TYPE F&K WITH WELDED RETICULINE GRATE
& LEACHING BASIN

NOT TO SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM
206.04 M	TRENCH AND CULVERT EXCAVATION - O.G.	CM
207.20 M	GEOTEXTILE BEDDING	SM
623.11M	CRUSHED GRAVEL (IN-PLACE MEASURE)	CM

NOTES:

1. FOR PAVEMENT PURPOSES, THE TOP OF THE DRAINAGE STRUCTURE IS AS INDICATED. A 50 mm MAXIMUM ADJUSTMENT OF THE FRAME WILL BE ALLOWED. THE WORK AND MATERIAL REQUIRED FOR THIS ADJUSTMENT WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE FRAME AND GRATE.
2. USE NEW YORK STATE STANDARD FABRICATED GRATES AND FRAMES ON DRAINAGE STRUCTURES AS SPECIFIED IN DRAINAGE STRUCTURE TABLES ("DRT" DWGS).
3. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED AS PER NYSDOT STANDARD SHEET SERIES 604 WITH MODIFICATION SHOWN ON THIS DETAIL SHEET.
4. REFER TO DRAINAGE STRUCTURE TABLES ("DRT" DWGS) FOR STRUCTURE TYPE DESIGNATIONS AND LOCATIONS.
5. REFER TO SECTION 604 OF THE N.Y.S.D.O.T. STANDARD SPECIFICATIONS FOR MATERIAL REQUIREMENTS OF PRE-CAST CONCRETE PAVERS AND MORTAR.
6. ADJUST FRAME & GRATE TO MATCH PAVEMENT AND/OR GUTTER SLOPES AS NECESSARY, OR AOBE.
7. LEACH BASIN STONE MEDIA TO BE PAID FOR UNDER ITEM 623.11M. MEDIA TO BE TYPE IV CRUSHED GRAVEL MEETING NYSDOT SPECIFICATIONS OF TABLE 703.4M, SIZE 4. SEE "DRT" DWGS FOR QUANTITIES.

AS BUILT REVISIONS

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SHEET 8 OF 15

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"CPH_MTD.DGN	ONE	AUGUST 2011	MTD-8

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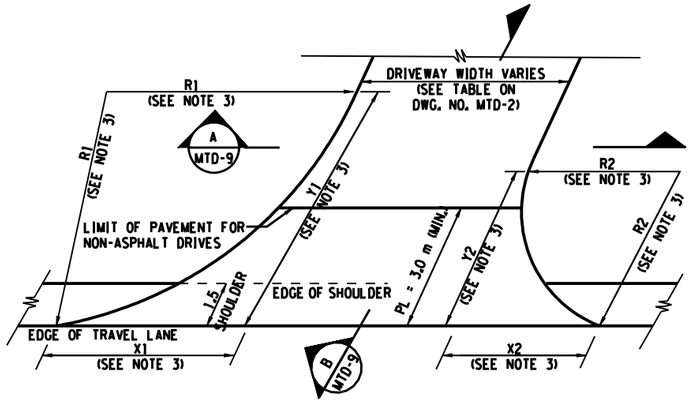
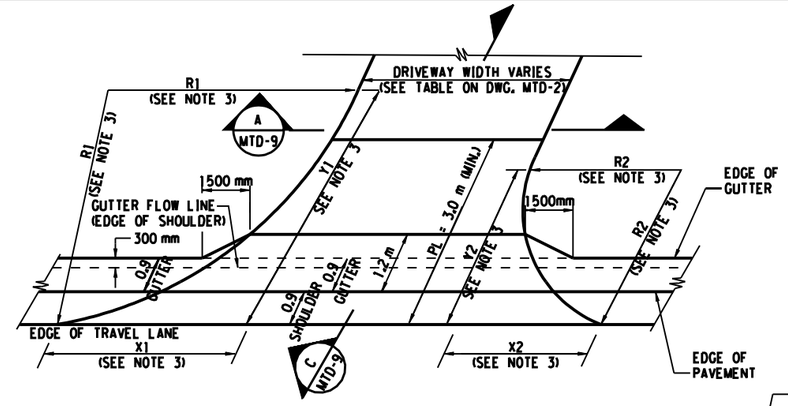


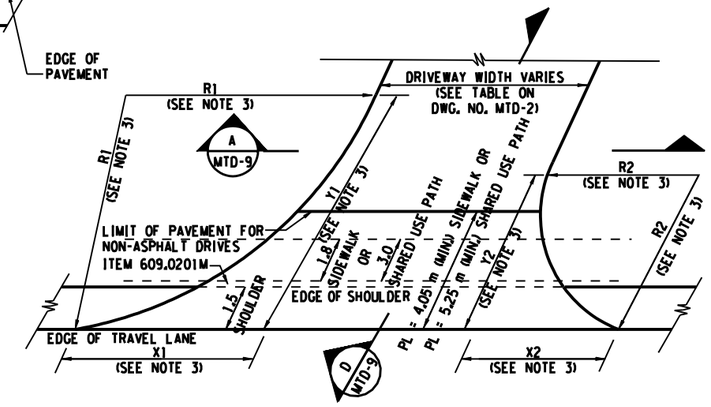
TYPICAL DRIVEWAY DETAIL - TYPE A
(ASPHALT SHOULDER)

NOT TO SCALE



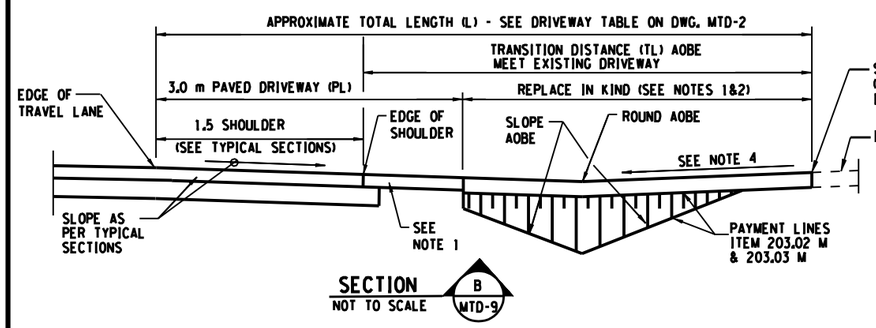
TYPICAL DRIVEWAY DETAIL - TYPE B
(CONCRETE GUTTER)

NOT TO SCALE



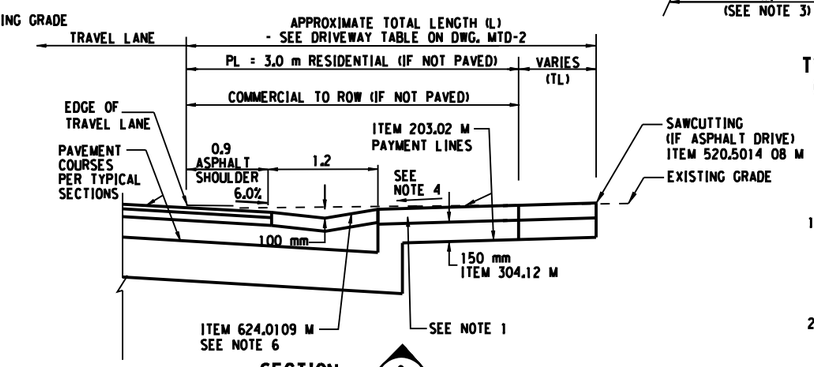
TYPICAL DRIVEWAY DETAIL - TYPE C
(SIDEWALK) OR (SHARED USE PATH)

NOT TO SCALE



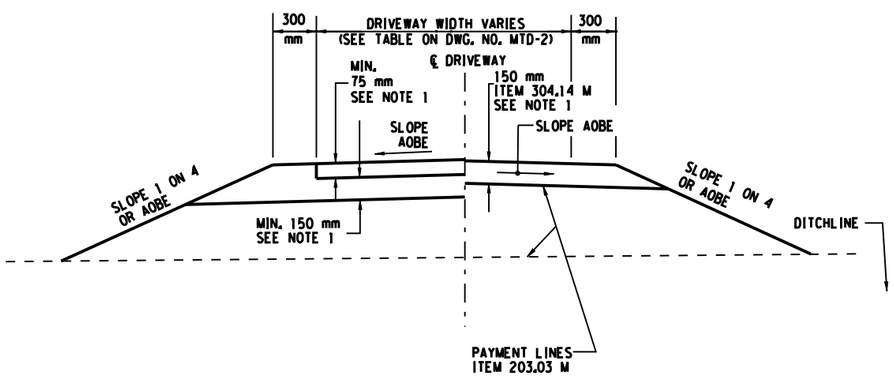
SECTION B MTD-9

NOT TO SCALE



SECTION C MTD-9

NOT TO SCALE

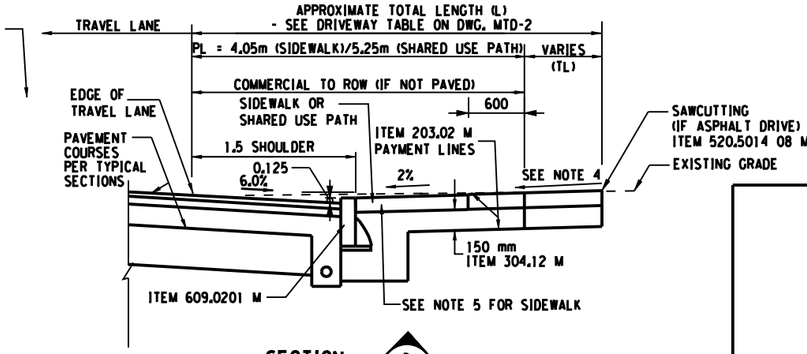


HALF SECTION - ASPHALT DRIVE

SECTION A MD-2

NTS

HALF SECTION - GRAVEL DRIVE



SECTION D MTD-9

NOT TO SCALE

NOTES:

1. RESIDENTIAL ASPHALT DRIVES AND FIELD DRIVES SHALL BE PAVED WITH 75 mm OF ITEM 608.020102 M PLACED ON 150 mm OF ITEM 304.12 M WITHIN THE LMITS OF THE PL. ALL ASPHALT CONCRETE COURSES SHALL BE PAID UNDER ITEM 608.020102 M. MINOR COMMERCIAL DRIVES SHALL BE PAVED WITH 100mm OF ITEM 608.020102 M PLACED ON 200 mm OF ITEM 304.12 M WITHIN THE LIMITS OF THE PL. TOP COURSE SHALL MEET THE REQUIREMENTS OF TYPE 7F2 TOP.
2. LENGTH WILL VARY TO PROVIDE NEGOTIABLE DRIVE. MATERIAL REQUIRED TO MATCH EXISTING DRIVE. SEE DRIVEWAY TABLE ON DWG. NO. MTD-2 FOR TOTAL LENGTH.
3. DIMENSIONS FOR X1, Y1, R1, X2, Y2 AND R2 ARE INCLUDED IN THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION POLICY AND STANDARD FOR ENTRANCES TO STATE HIGHWAYS.
4. RURAL DRIVEWAYS SHALL HAVE A MAXIMUM SLOPE OF: 10% COMMERCIAL, 12% RESIDENTIAL, UNLESS OTHERWISE INDICATED IN DRIVEWAY PROFILES. (DRV-1 TO DRV-7)
5. THE SIDEWALKS SHALL BE 150mm THICK WHEN TRAVERSING THE DRIVEWAYS.
6. THE GUTTER SHALL BE 1.2m WIDE WHEN TRAVERSING THE DRIVEWAYS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNITS
203.02 M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM
203.03 M	EMBANKMENT IN PLACE	CM
304.12 M	SUBBASE COURSE, TYPE 2	CM
520.5014 08 M	SAWCUTTING, ASPHALT PAV'T	M
608.0101 M	CONCRETE SIDEWALKS AND DRIVEWAYS	CM
608.020102 M	ASPHALT CONCRETE SIDEWALKS, DRIVEWAYS, AND BICYCLE PATHS	MT
608.020112 M	PLANT PRODUCTION QUALITY ADJUSTMENT TO 608.020101	QU
609.0201 M	STONE CURB, GRANITE (TYPE A)	M
624.0109 M	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS	SM

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 9 OF 15

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

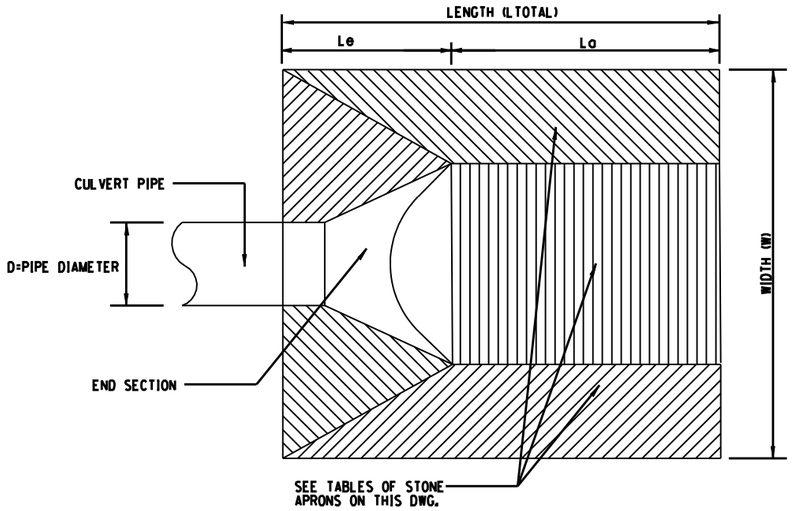
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_MTD.DGN	ONE	AUGUST 2011	MTD-9

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

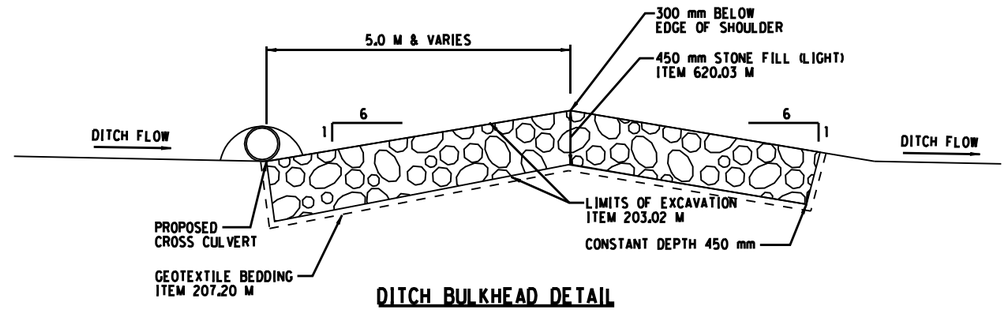
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		40	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

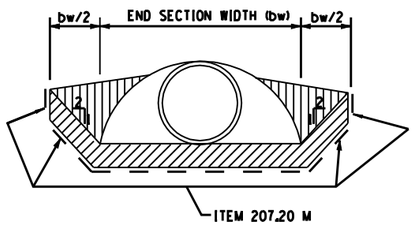


PLAN

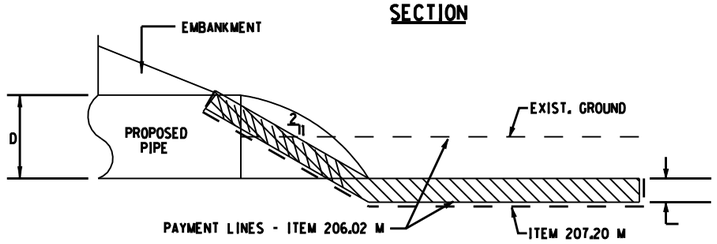
CULVERT APRONS
NOT TO SCALE



DITCH BULKHEAD DETAIL
NOT TO SCALE



SECTION



ELEVATION
NOT TO SCALE

TABLE OF STONE LINED SWALES							
STATION TO STATION		SIDE (LT/RT)	DEPTH (METERS)	WIDTH (METERS)	LENGTH	ITEM 270.20M	ITEM 620.03 M
1+800±	1+980±	RT	0.3	1.8	180	324	97
CA 10+020±	2+210±	LT*	0.3	1.8	140	252	76
2+515±	2+695±	RT	0.3	1.8	180	324	97
2+630±	2+695±	LT	0.3	1.8	65	117	35
2+980±	3+160±	RT	0.3	1.8	180	324	97
2+980±	3+260±	LT	0.3	1.8	280	504	151
					TOTAL	1,845	554

ITEM 207.20 M - GEOTEXTILE BEDDING
ITEM 620.03 M - STONE FILLING (LIGHT)
NOTE: PAYMENT FOR STONE SWALE EXCAVATION PAID UNDER ITEM 203.02M - UNCLASSIFIED EXCAVATION AND DISPOSAL
*STA TO STA. DIFFERENCE MAY NOT EQUAL TRUE DISTANCE DUE TO RADIUS

TABLE OF STONE APRONS									
LOCATION	TYPE	DEPTH	L e	L a	L TOTAL	WIDTH	ITEM 206.04M	ITEM 207.20M	ITEM 620.03M
DS 100	LIGHT STONE	0.3	1.8	2.3	4.0	5.0	7.0	20.0	6.0
DS 110	LIGHT STONE	0.3	1.0	1.5	2.5	3.5	4.5	8.8	2.6
DS 138	LIGHT STONE	0.3	1.3	2.0	3.3	4.0	4.0	13.2	4.0
DS 138C	LIGHT STONE	0.3	0.5	1.0	1.5	1.5	0.7	2.3	0.7
DS 138E	LIGHT STONE	0.3	0.5	1.0	1.5	1.5	0.7	2.3	0.7
DS 139	LIGHT STONE	0.3	1.3	2.0	3.3	4.0	19.2	13.2	4.0
DS 181	LIGHT STONE	0.3	1.5	2.5	4.0	5.3	6.5	21.2	6.4
DS 182	LIGHT STONE	0.3	1.5	2.5	4.0	5.3	8.0	21.2	6.4
						TOTAL	50.6	102.1	30.6

ITEM 206.04M - TRENCH AND CULVERT EXCAVATION - O.C.
ITEM 207.20M - GEOTEXTILE BEDDING
ITEM 620.03M - STONE FILLING
(LIGHT)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

ITEM	DESCRIPTION	UNITS
206.02 M	TRENCH AND CULVERT EXCAVATION	CM
207.20 M	GEOTEXTILE BEDDING	SQM
620.03 M	STONE FILLING (LIGHT)	CM

Foit-Albert Associates
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Hanover Square, 435 New Karner Road
Albany, New York 12205

MISCELLANEOUS TABLES AND DETAILS
SHEET 10 OF 15

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*CPH_MTD.DGN	ONE	AUGUST 2011	MTD-10

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		41	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

TABLE OF MAILBOXES
ITEM 619.27M

EXISTING LOCATION	EXISTING OFFSET	DETIL	QUANTITY
1+838.8	9.7 m LT	C	1
2+708.7	7.3 m RT	C	1
3+449.9	6.8 m RT	A OR B	1
3+519.2	7.9 m RT	A OR B	1
3+534.9	8.9 m RT	A OR B	1
3+535.9	9.1 m RT	A OR B	1
3+627.8	20.6 m RT	A OR B	1
3+757.0	7.1 m RT	A OR B	1
3+782.2	6.6 m RT	A OR B	1
3+863.2	5.3 m RT	A OR B	1
3+864.	5.4 m RT	A OR B	1
3+981.6	4.2 m RT	A OR B	1
3+982.5	4.1 m RT	A OR B	1
4+008.9	4.4 m RT	A OR B	1
4+071.1	6.1 m RT	A OR B	1
4+173.7	6.3 m RT	A OR B	1
4+176.6	6.0 m RT	A OR B	1
4+200.4	6.2 m RT	A OR B	1
4+219.1	6.2 m RT	A OR B	1
4+219.6	6.3 m RT	A OR B	1
4+271.3	4.9 m RT	A OR B	1
4+305.9	5.8 m RT	A OR B	1
4+327.6	6.2 m RT	A OR B	1
A 9+913.3	5.9 m RT	A OR B	1
A 9+949.18	2.3 m RT	A OR B	1
		TOTAL	25

SEE DETAIL AND SPECIAL NOTES BELOW

SIDEWALK CURB RAMP AND DETECTABLE WARNING FIELD

STATION	SIDE	CURB RAMP TYPE	ITEM 608.21 M (SQM)
4+115±	LT	TYPE 4	4.15
4+149±	LT	TYPE 4	4.05
		TOTAL	8.20

ITEM 608.21 M - EMBEDDED DETECTABLE WARNING UNITS
NOTE: SEE 608 STANDARD SHEETS FOR CURB RAMP CONFIGURATIONS

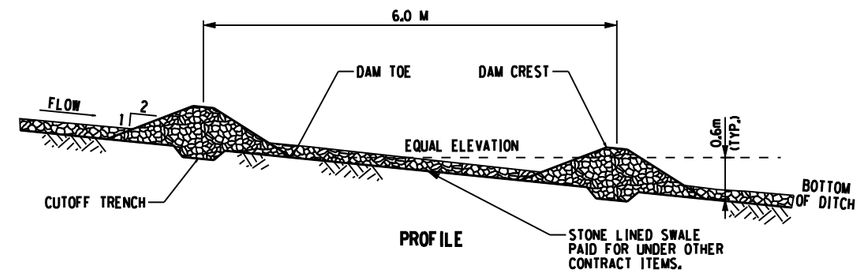
CURB AND SIDEWALK LOCATIONS

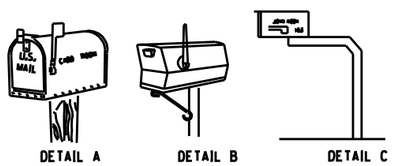
STATION TO STATION		SIDE	LENGTH	ITEM 608.0101 M (CM)	ITEM 609.0201 M (M)	ITEM 609.0204 M (M)
SIDEWALK						
4+108.9	4+121.9•	LT	14.3	2.6		
4+143.2	4+360.0•	LT	218.4	40.0		
CURBING						
3+409.5	3+595.0	LT	185.5		185.5	
3+630.0	3+750.0	LT	121.0		121.0	
4+108.9	4+129.3•	LT	31.3		31.3	
4+138.9	4+360.0•	LT	242.2		242.2	
AVERYVILLE SPLITTER ISLAND		-	70			70
			TOTAL	42.6	580.0	70.0

ITEM 608.0101 M - CONCRETE SIDEWALKS AND DRIVEWAYS (CM)
ITEM 609.0201 M - GRANITE CURB, TYPE A (M)
ITEM 609.0204 M - GRANITE CURB, TYPE T100
ITEM 609.0204 M - GRANITE CURB, TYPE T100
•STA TO STA. DIFFERENCE MAY NOT EQUAL TRUE DISTANCE DUE TO RADIUS

ITEM 604.501901M OFFSET CATCH BASIN

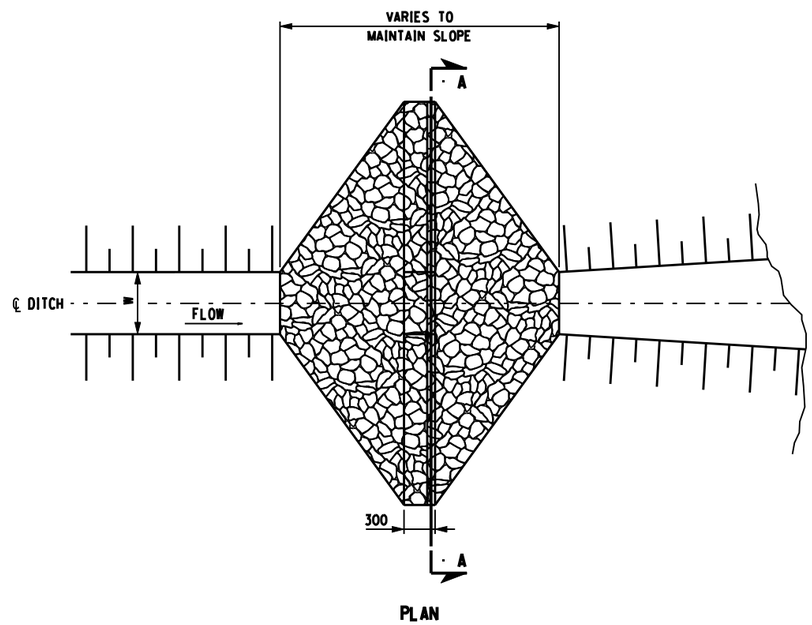
DS #	STATION	SIDE	M	ITEM
135	3+450	LT	2.7	604.50190108
144	3+483	RT	1.9	604.50190208
146	3+930	RT	1.8	604.50190308
149	4+080	RT	2.0	604.50190408
153	4+153	RT	2.3	604.50190508
156	4+186	RT	2.3	604.50190608
160	4+350	RT	2.6	604.50190708
163	4+410	RT	2.3	604.50190808
172	4+632	RT	1.8	604.50190908
175	4+682.7	RT	1.8	604.50191008
178	4+720	RT	1.8	604.50191108
179	4+740	RT	1.8	604.50191208





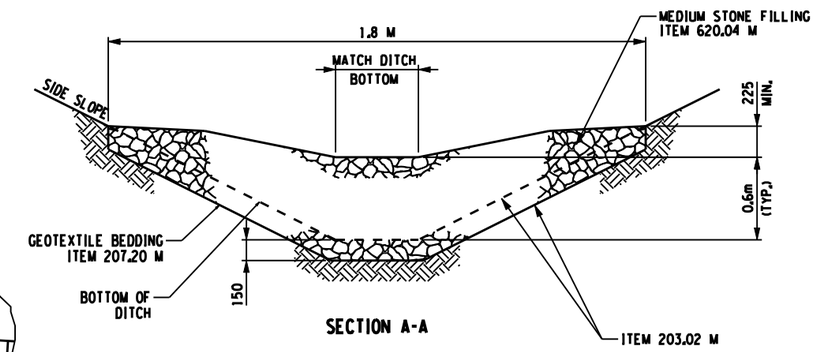
NOTES:

1. THERE ARE TWO APPROVED STYLES OF BOXES: (1) TRADITIONAL DESIGN IN THREE STANDARD SIZES (SEE DETAIL A) AND (2) CONTEMPORARY DESIGN (SEE DETAIL B). IN AREAS WHERE SNOW REMOVAL IS A PROBLEM THE USE OF A SEMI-ARCH OR EXTENDED ARM TYPE OF SUPPORT IS SUGGESTED (SEE DETAIL C). THIS ALLOWS SNOWPLOWS TO SWEEP NEAR OR UNDER BOXES WITHOUT DAMAGE TO SUPPORTS AND PROVIDES EASY ACCESS TO THE BOXES BY CARRIER AND CUSTOMERS.
2. MAIL BOXES REMOVED SHALL NOT BE RESET UNTIL THE MOUNTING POST MEETS AASHTO RECOMMENDATIONS FOR MAILBOX SUPPORTS BEING NOT MORE THAN 100 mm X 100 mm OR 115 mm DIA. WOOD POST OR A STEEL OR ALUMINUM PIPE 50 mm DIA.. STANDARD STRENGTH EMBEDDED NO MORE THAN 24" (600 mm) INTO THE GROUND. THE MINIMUM SIZE SHOULD BE 25 mm DIA. GALVANIZED POST.
3. ALL MAIL BOXES SHALL BE SET IN ACCORDANCE WITH THE U.S. POSTAL SERVICE MOUNTING PROCEDURE OF 1.1 m TO 1.2 m ABOVE THE ROADWAY AND NOT OFFSET MORE THAN 600 mm FROM A PAVED SURFACE. VARIATIONS TO THIS APPLY WHEN IN A CURBED SECTION AS APPROVED BY THE LOCAL POSTAL AUTHORITY.
4. THE CONTRACTOR SHALL NOTIFY THE E.I.C. AND THE LOCAL POSTMASTER AS TO THE MOVING OF ANY PRIVATE MAILBOX. THIS SHALL APPLY TO ANY TEMPORARY & PERMANENT MOVES.
5. UNDER NO CIRCUMSTANCES SHALL ANY MAILBOX BE MOVED WHEN ANY TYPE OF MAIL IS IN THE MAILBOX.



CHECK DAM - PERMANENT
(STONE)

—MEDIUM STONE FILLING ITEM 620.04 M
ITEM 620.04 M



NOTES:
SEE MTD-6 FOR TABLE.
SEE GP-8 AND GP-9 FOR LOCATIONS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 11 OF 15

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

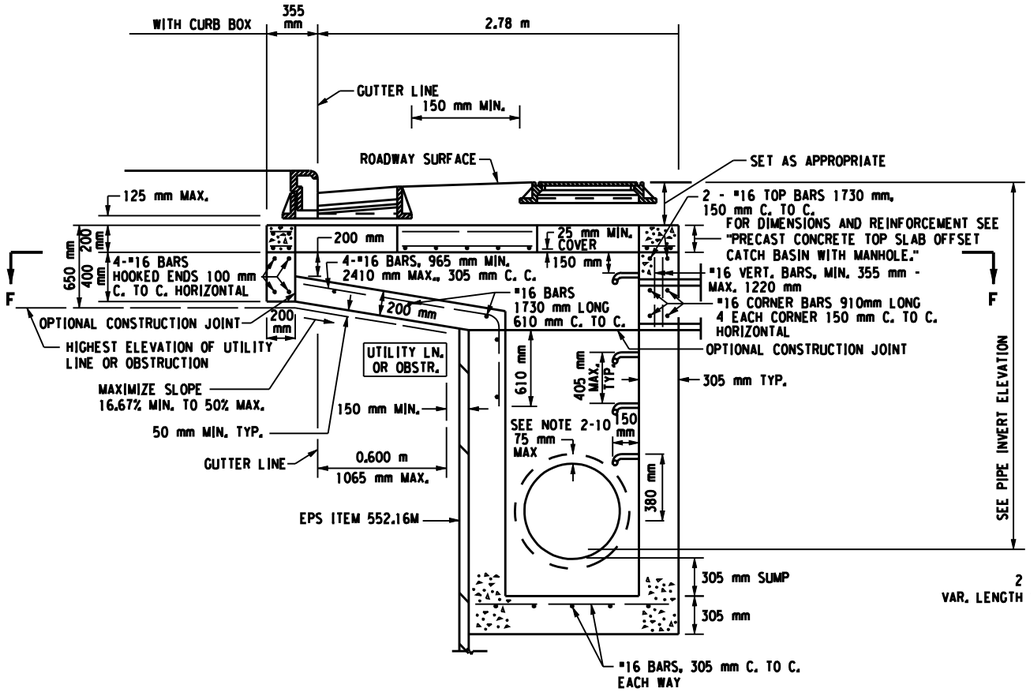
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*CPH_MTD.DGN	ONE	AUGUST 2011	MTD-11

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

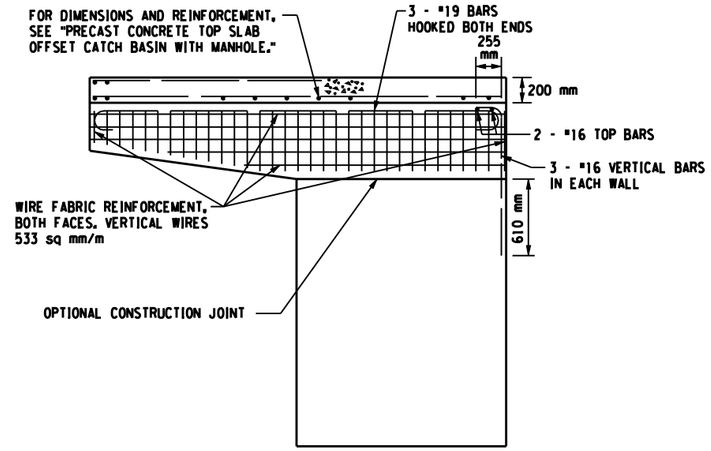
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		42	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



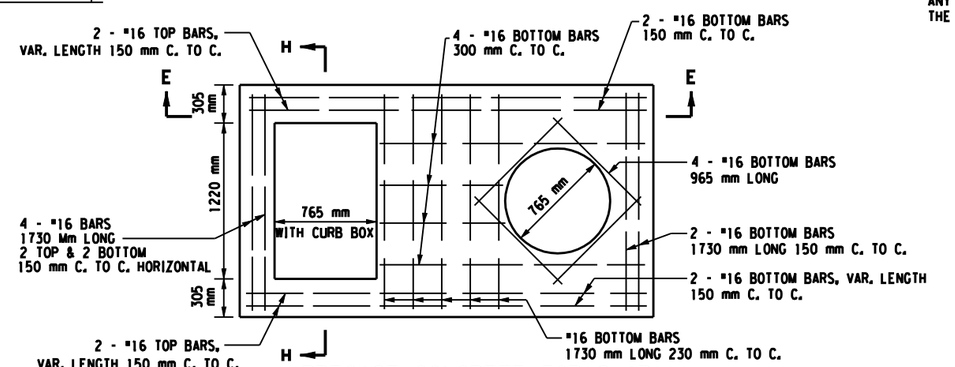
ELEVATION
OFFSET CATCH BASIN WITH MANHOLE



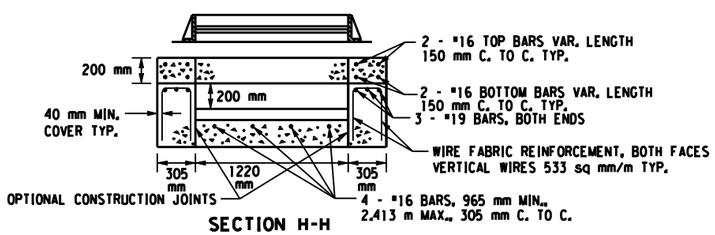
SECTION E-E

NOTES:

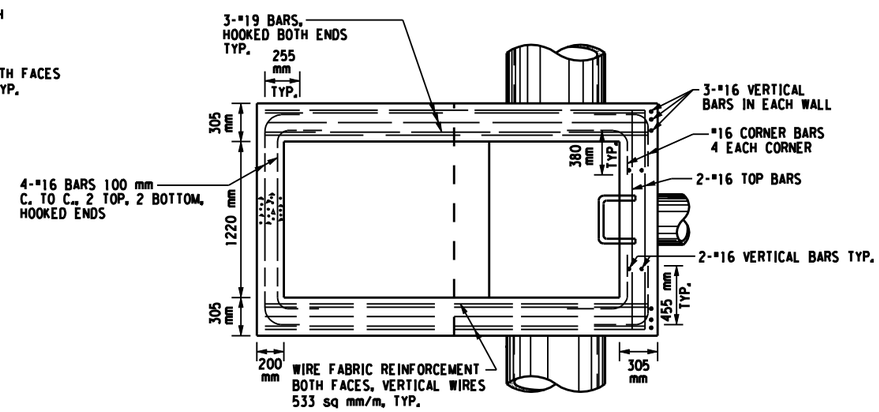
1. FOR ADDITIONAL DETAILS SEE STANDARD SHEETS 203-4R1, 603-3R1, 604-1, 604-5R1, 604-7, 604-8R1, 655-6, AND 655-11R1.
2. SEE "DRT" DWGS FOR ITEMIZED DRAINAGE QUANTITIES.
3. SEE "TS" DWGS. FOR ASPHALT THICKNESS AND CURB TYPES.
4. ITEM 206.02M PAYMENT LIMITS FROM BOTTOM OF STRUCTURE TO BOTTOM OF SUBBASE IF ORIGINAL GROUND (OG) IS ABOVE BOTTOM OF SUBBASE.
5. ITEM 206.04M PAYMENT LIMITS FROM BOTTOM OF STRUCTURE TO ORIGINAL GROUND (O.G.) IF O.G. IS BELLOW BOTTOM OF SUBBASE.
6. THE CONTRACTOR WILL BE REQUIRED TO DIG TEST HOLES AT EACH OFFSET BASIN LOCATION TO DETERMINE THE EXACT LOCATION OF ANY UNDERGROUND OBSTRUCTION OR UTILITY. COST INCLUDED IN THE OFFSET CATCH BASIN ITEM.



PRECAST CONCRETE TOP SLAB OFFSET CATCH BASIN WITH MANHOLE



SECTION H-H
OFFSET CATCH BASIN



SECTION F-F

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 12 OF 15

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

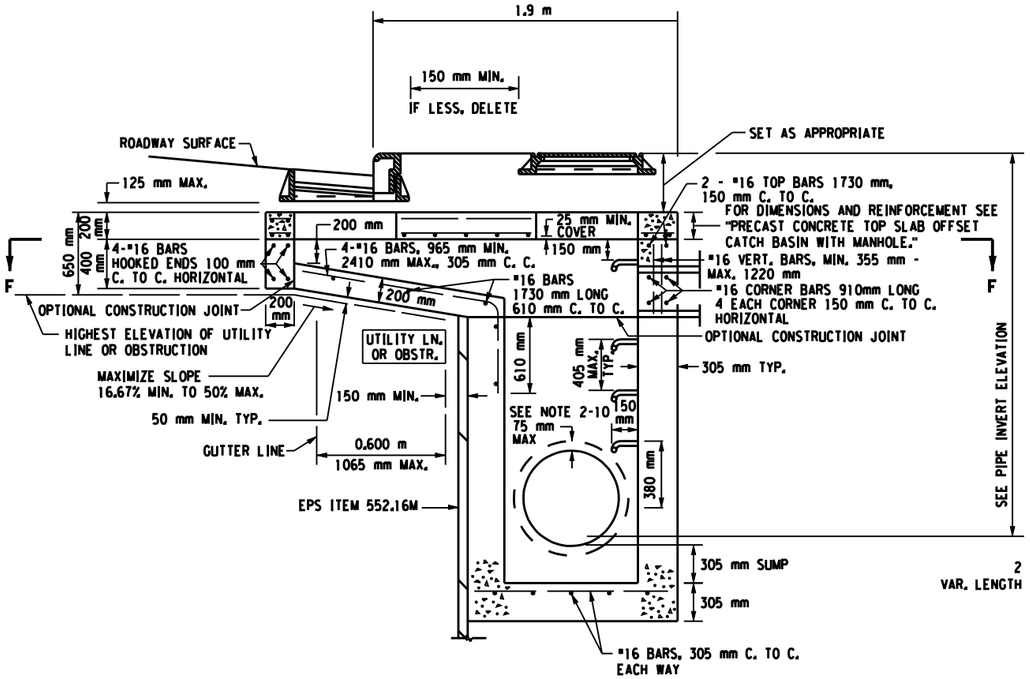
DOCUMENT NAME	REGION	DATE	DRAWING NO.
#CPH_MTD.DGN	ONE	AUGUST 2011	MTD-12

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

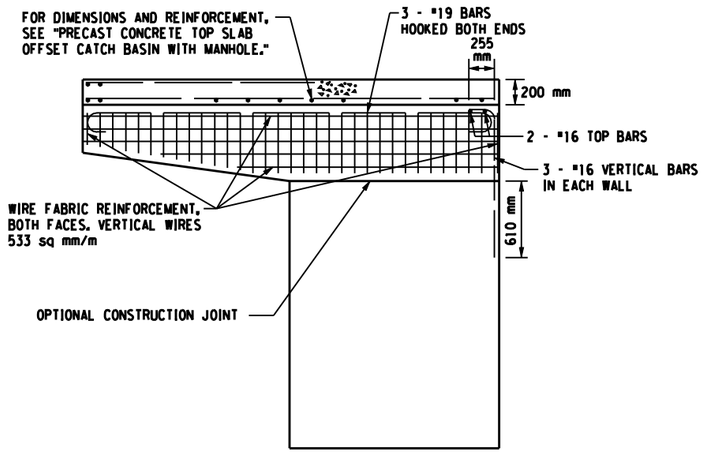
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		43	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



ELEVATION
OFFSET CATCH BASIN WITH MANHOLE



SECTION E-E

NOTES:

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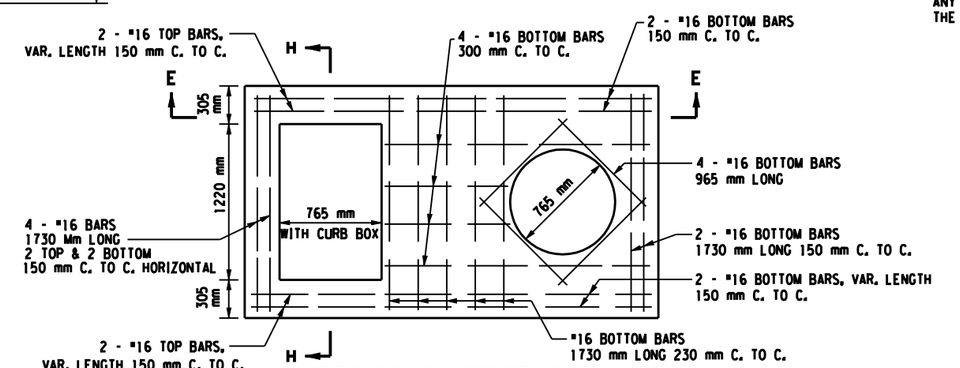
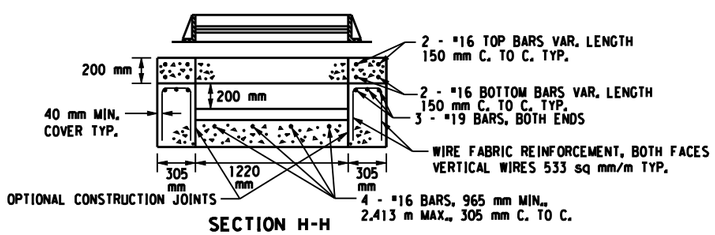
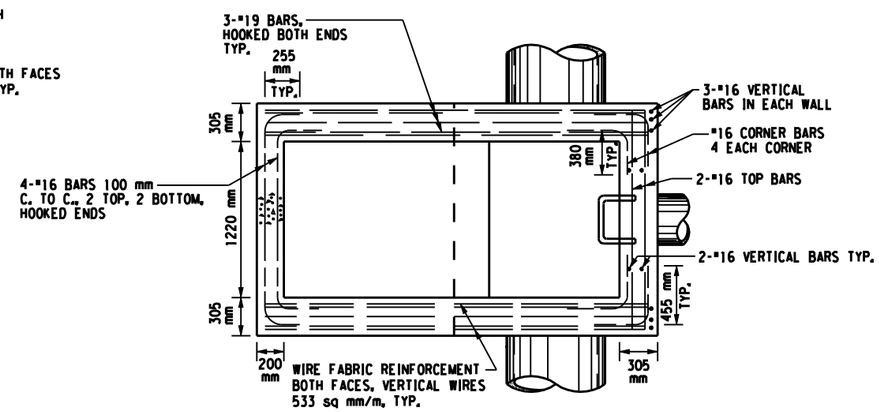


PRECAST CONCRETE TOP SLAB OFFSET CATCH BASIN WITH MANHOLE



SECTION H-H
OFFSET CATCH BASIN
ITEM 08 604.501901 M



SECTION F-F

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 13 OF 15

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

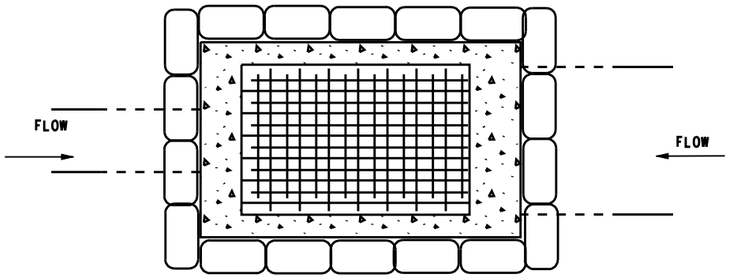
DOCUMENT NAME	REGION	DATE	DRAWING NO.
#CPH_MTD.DGN	ONE	AUGUST 2011	MTD-13

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

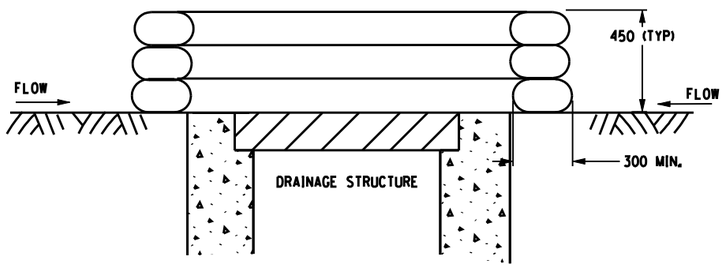
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		44	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN



SECTION

DRAINAGE STRUCTURE INLET PROTECTION-TEMPORARY
(GRAVEL BAG)
ITEM 209.1702M

SYMBOL

GB

EROSION / SEDIMENT CONTROL LEGEND

GB — DRAINAGE STRUCTURE INLET PROTECTION - TEMPORARY (GRAVEL BAG) (ITEM 209.1702M)

TABLE OF CONCRETE GUTTER
ITEM 624.0109M

STATION FROM	STATION TO	SIDE (LT/RT)	LENGTH (m)	WIDTH (m)	DRIVEWAY FACTOR (F)	ITEM 624.0109M (SQM)
1+980	2+515	RT	535.0	0.9	1.06	510
2+695	2+980	RT	285.0	0.9	1.06	271
2+695	2+980	LT	285.0	0.9	1.07	273
3+160	3+404.5	RT	244.5	0.9	1.14	251
MPD 10+015	3+404.5	LT•	88.0	0.9	1.39	110
3+409.5	3+510	RT	100.5	0.9	1.15	104
3+740	3+833	RT	93.0	0.9	1.22	102
3+771	4+109	LT	338.0	0.9	1.12	341
A 9+930	4+200	RT•	200.0	0.9	1.05	189
			TOTAL			2,152

NOTES:
LENGTH = STA. TO STA. (m)
DEPTH = 0.15 m
DRIVEWAY FACTOR (F) = 1 + ((SUM OF DRIVEWAY & DRAINAGE WIDTHS) / LENGTH)
TOTAL = LENGTH x WIDTH x F
•STA TO STA DIFFERENCE MAY NOT EQUAL TOTAL DUE TO RADIUS

APPLICATION NOTES:

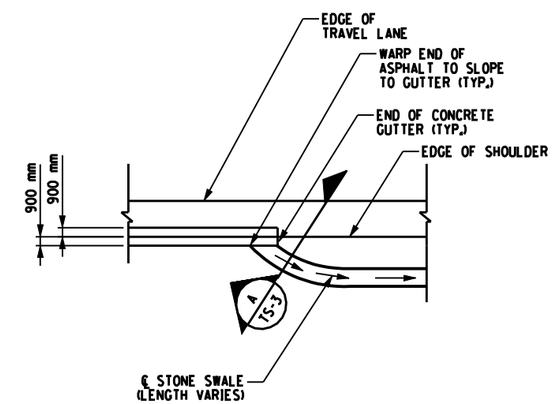
A. THE PRIMARY PURPOSE OF DRAINAGE STRUCTURE INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM BY PONDING WATER WHICH ALLOWS SEDIMENT TO FALL OUT OF SUSPENSION.

B. GRAVEL BAGS ARE FILLED WITH CLEAN STONE RATHER THAN SAND TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM IF BAGS ARE DAMAGED DURING USE.

C. THE TOP OF THE INLET PROTECTION SHALL BE SET AT THE MAXIMUM DESIRED WATER LEVEL BASED ON FIELD LOCATION AND CONDITIONS.

NOTES:

1. GRAVEL BAGS SHALL BE INDIVIDUALLY TIED, DOUBLE BAGGED AND INVERSELY INSERTED. GRAVEL BAGS SHALL LAP THE JOINTS BETWEEN THE BAGS IN THE LAYER BELOW. COST OF EXCAVATION FOR INSTALLATION SHALL BE INCLUDED IN THE PRICE BID FOR ITEM.
2. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS, AFTER EACH RAINFALL OF 12 mm OR MORE WITHIN A 12 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
3. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
4. ALL COSTS FOR FURNISHING, INSTALLING AND MAINTAINING THE DRAINAGE STRUCTURE INLET PROTECTION SHALL BE INCLUDED IN ITEM 209.1702. SEE PLANS FOR USE OF ITEM.



CONCRETE GUTTER TERMINATION DETAIL
NOT TO SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 14 OF 15

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*CPH_MTD.DGN	ONE	AUGUST 2011	MTD-14

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

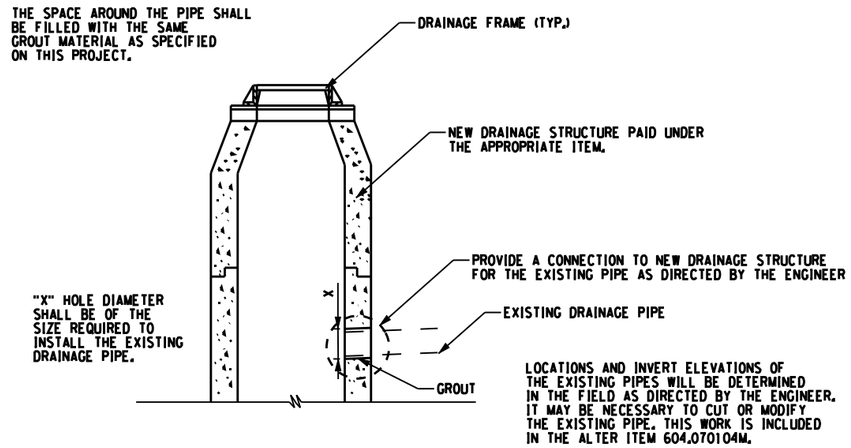
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		45	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

TABLE OF CLEARING LIMITS		
CENTERLINE STA	PROPOSED CLEARING LIMITS FROM EXIST. CENTERLINE	
	STA LT	STA RT
INTERSECTION OF CAROLYN ROAD AT STA. 2+010		
2+020	9.5	9.5
2+030	9.0	9.2
2+040	8.7	7.7
2+050	9.1	7.0
2+060	9.2	9.5
2+070	9.3	9.3
2+080	9.4	7.3
2+090	9.5	7.1
2+100	9.6	8.3
2+110	9.1	8.9
2+120	9.2	9.3
2+130	8.7	9.6
2+140	8.1	9.9
2+150	8.2	10.1
2+160	7.4	10.1
2+170	8.9	10.0
2+180	9.7	9.7
2+190	8.3	9.4
2+200	9.6	9.0
2+210	8.7	8.6
2+220	7.1	5.8
2+230 TO 2+500	NC	NC
2+510	6.2	6.8
2+520	5.3	9.5
2+530	8.1	9.0
2+540 TO 2+680	NC	NC
2+670	8.5	8.9
2+680	8.1	9.7
2+690	8.7	9.6
2+700 TO 2+710	NC	NC
2+720	6.5	7.7
2+730	6.9	7.7
2+740	7.5	7.8
2+750	7.4	8.2
2+760	8.3	8.5
2+770	8.8	8.5
2+780	8.2	8.9
2+790 TO 2+860	NC	NC
2+870	5.8	7.1
2+880	6.4	8.3
2+890	7.0	9.4
2+900	7.9	9.4
2+910	8.2	9.2
2+920	8.3	9.2
2+930	7.8	9.2
2+940	7.5	9.2
2+950	8.8	9.2
2+960	7.4	9.1
2+970	5.5	9.1
2+980	8.3	9.1
2+990 TO 3+000	NC	NC
3+010	7.7	8.3
3+020	8.2	9.2
3+030	8.4	9.0
3+040 TO 3+090	NC	NC
3+100	8.3	10.1
3+110	8.7	7.6
3+120	9.2	7.7
3+130	9.6	8.4
3+140	7.9	8.6
3+150	6.8	8.8
3+160	8.0	11.1
3+170	5.1	12.6
3+180	3.9	13.6
3+190	4.5	13.8
3+200	4.1	13.3
3+210	4.6	12.4
3+220	6.3	11.1
3+230	6.9	10.0
3+240	8.1	6.3
3+250	9.4	9.6
3+260	7.7	6.2
3+270	8.2	6.5
3+280	6.7	8.6
3+290	6.1	9.5
3+330 TO 3+760	**	**
3+770 TO 3+810	10.0	NC
3+820 TO 3+880	NC	NC
3+890 TO 3+930	8.0	NC
3+940 TO 4+370	NC	NC

NOTE:
** REFER TO GP-11 THRU GP-13 FOR CLEARING LIMITS TO ROW.
NC - NO CHANGE WITHIN EXISTING CLEARED AREA



ITEM 604.070104M
ALTERING DRAINAGE STRUCTURE, LEACH BASIN, AND MANHOLES

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS TABLES AND DETAILS
SHEET 15 OF 15

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*CPH_MTD.DGN	ONE	AUGUST 2011	MTD-15

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS "MTD" DWGS.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		46	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6706 M	603.6706 08 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 100	1+873	10.1	LT	PLACE 900 mm END SECTION			567.444										1.0																									
DS 101	1+873	6.2	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	568.600			N	567.776		3.7	18.1	56.8															1.8									8.0			1.0	
				CONNECT TO DS 101B W/ 10.4 m OF 960 X 610 X 94 mm ELLIPTICAL RC PIPE						0.58	12.4	18.5						10.4																								
DS 101B	1+873	4.4	LT	CONSTRUCT TYPE K DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	569.100	E	567.500	N	567.500		8.7	27.6	56.8														5.8			2.5						8.7			1.0	
				CONNECT TO DS 100 W/ 5.8 m OF 750 mm SICPP		S	567.716			0.97	7.9	18.1																														
DS 101C	1+925	4.4	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	569.283	E	567.780	W	567.780		7.6	24.1	56.8															2.4									8.0			1.0	
				CONNECT TO DS 101B W/ 51.9 m OF 600 mm SICPP						0.54	81.7	140.4														51.9																
DS 102	1+985	5.0	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	570.245	E	568.895	N	568.895		6.7	22.7	56.8															2.3									8.0			1.0	
				CONNECT TO DS 102C W/ 8.8 m OF 450 mm SICPP						0.51	14.0	19.6												8.8																		
DS 102B	2+020	6.7	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	570.700			W	569.350		6.7	22.7	56.8															2.3									8.0			1.0	
				CONNECT TO DS 102C W/ 34.5 m OF 450 mm SICPP						1.02	54.9	76.8												34.5																		
DS 102C	1+985	4.4	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	570.319	E	569.000	W	568.500		9.4	26.9	56.8															2.7									8.0			1.0	
				CONNECT TO DS 101C W/ 59.9 m OF 600 mm SICPP		S	568.850			1.20	128.4	196.1														59.9																
DS 103	2+080	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	573.186		571.725		571.700		7.5	23.9	56.8															2.4									8.0			1.0	
				CONNECT TO DS 102 W/ 93.6 m OF 450 mm SICPP						2.78	170.0	229.5												93.6																		
DS 104	2+120	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	574.586		573.225		573.200		6.9	23.1	56.8															2.3									8.0			1.0	
				CONNECT TO DS 103 W/ 38.4 m OF 375 mm SICPP						3.85	66.9	83.8											38.4																		
DS 105	2+170	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	576.336		575.075		575.050		6.4	22.2	56.8															2.2									8.0			1.0	
				CONNECT TO DS 104 W/ 48.3 m OF 375 mm SICPP						3.78	76.5	97.8											48.3																		
DS 106	2+210	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	577.737		576.425		576.400		6.6	22.6	56.8															2.3									8.0			1.0	
				CONNECT TO DS 105 W/ 38.4 m OF 375 mm SICPP						3.45	63.9	80.9											38.4																		
DS 107	2+270	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	579.475		578.292		578.275		5.9	21.4	56.8															2.1									8.0			1.0	
				CONNECT TO DS 106 W/ 58.1 m OF 375 mm SICPP						3.19	84.2	109.8											58.1																		
DS 107A	2+318	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	580.320			NW	579.105		6.0	21.5	56.8															2.1									8.0			1.0	
				CONNECT TO DS 107 W/ 46.9 m OF 375 mm SICPP						1.73	69.0	89.7											46.9																		
					SUBTOTAL						911.8	1438.1	682.0	0.0	0.0	0.0	1.0	0.0	10.4	0.0	0.0	0.0	0.0	230.1	136.9	0.0	111.8	5.8	25.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	97.1	0.0	0.0	12.0	0.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.G.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISE×1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DRAINAGE TABLES
SHEET 1 OF 9

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_01.DGN	ONE	AUGUST 2011	DRT-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W. SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS "MTD" DWGS.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		47	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6704 08 M	603.6706 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 109	2+515	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	578.900	SE	577.780	NE	577.719		4.8	21.2	56.8															2.1									8.0			1.0	
				CONNECT TO DS 110 W/ 14.7 m OF 525 mm RC						0.50	17.2	29.9						14.7																								
DS 109A	2+520	6.7	RT	PLACE 375 mm END SECTION			577.835							1.0																												
				CONNECT TO DS 109 W/ 4.5 m OF 300 mm SICPP						1.22	8.9	10.1											4.5																			
DS 110	2+516	10.4	LT	PLACE 525 mm END SECTION			577.645															1.0																			
DS 112	2+750	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	581.248	NE	579.739	SE	579.238		8.7	28.6	56.8															2.9									8.0			1.0	
				CONNECT TO DS 113 W/ 58.9 m OF 375 mm SICPP						8.93	160.5	186.5												58.9																		
DS 112B	2+750	5.9	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	581.183			SW	579.833		5.6	22.7	56.8															2.3									8.0			1.0	
				CONNECT TO DS 112 W/ 9.8 m OF 450 mm SICPP						0.96	15.6	21.8													9.8																	
DS 113	2+810	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	575.597	NE	574.163	SE	573.975		6.9	25.1	56.8															2.6									8.0			1.0	
				CONNECT TO DS 114 W/ 53.5 m OF 375 mm SICPP		NW	574.000			10.76	113.1	136.7												53.5																		
DS 113B	2+810	5.9	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	575.800			SW	574.208		6.7	24.9	56.8															2.5									8.0			1.0	
				CONNECT TO DS 113 W/ 9.8 m OF 450 mm SICPP						0.46	19.5	25.7													9.8																	
DS 114	2+865	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	569.858	NE	568.431	SE	568.225		6.9	25.2	56.8															2.6									8.0			1.0	
				CONNECT TO DS 115 W/ 64.0 m OF 375 mm SICPP		NW	568.250			11.37	136.3	164.6												64.0																		
DS 114B	2+865	5.9	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	570.037			SW	568.476		6.6	24.6	56.8															2.5									8.0			1.0	
				CONNECT TO DS 114 W/ 9.8 m OF 450 mm SICPP						0.46	19.0	25.2													9.8																	
DS 115	2+930	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	563.141	NE	561.755	SE	560.972		9.5	30.0	56.8															3.1									8.0			1.0	
				CONNECT TO DS 116 W/ 44.4 m OF 375 mm SICPP		NW	560.997			7.45	146.9	168.8												44.4																		
DS 115B	2+930	5.9	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	563.171			SW	561.800		5.7	22.9	56.8															2.3									8.0			1.0	
				CONNECT TO DS115 W/ 9.8 m OF 450 mm SICPP						0.46	15.9	22.2													9.8																	
DS 116	2+930	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	558.439	NW	557.695	SE	557.670		2.8	17.6	56.8															1.7									8.0			1.0	
				CONNECT TO DS 117 W/ 5.0 m OF 375 mm SICPP						7.45	3.8	6.1												5.0																		
					SUBTOTAL						721.0	1040.5	568.3	1.0	0.0	0.0	0.0	14.7	0.0	0.0	0.0	1.0	4.5	225.8	39.2	0.0	0.0	0.0	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3	0.0	0.0	10.0	0.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.C.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISEx1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DRAINAGE TABLES
SHEET 2 OF 9

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_02.DGN	ONE	AUGUST 2011	DRT-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		48	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS "MTD" DWGS.

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		PIPE INVERT ELEVATIONS (m) OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6706 M	603.6706 08 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 116B	2+930	5.9	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	558.439			SW	557.670		2.8	17.6	56.8															1.7								8.0			1.0	
				CONNECT TO DS117B W/ 5.0 m OF 375 mm SICPP						7.45	3.8	6.1												5.0																		
DS 117	2+980	6.7	RT	PLACE 450 mm END SECTION			557.297								1.0																											
DS 117B	2+980	6.7	LT	PLACE 450 mm END SECTION			557.297								1.0																											
DS119B	3+150	6.7	RT	PLACE 450 mm END SECTION			547.000								1.0																											
				CONNECT TO DS119 W/ 9.0 m OF 375 mm SICPP						11.21	24.4	28.4												9.0																		
DS 119	3+160	4.4	RT	CONSTRUCT 1.220m X 200mm CIRCULAR MANHOLE WITH FRAME AND COVER	547.078	W	546.000	SE	545.720		6.3	20.6																					2.3				7.4				1.0
				CONNECT TO DS 120 W/ 28.1 m OF 450 mm SICPP						5.83	45.1	63.0													28.1																	
DS 120	3+190	4.4	RT	CONSTRUCT 1.220m X 200mm CIRCULAR MANHOLE WITH FRAME AND COVER	545.436	NW	544.086	SE	544.050		6.5	20.8																					2.3				7.4				1.0
				CONNECT TO DS 124 W/ 28.0 m OF 450 mm SICPP						7.21	46.2	64.0													28.0																	
DS 124	3+220	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	543.384	NW	542.034	SE	542.000		6.9	23.0	56.8															2.3								8.0			1.0	
				CONNECT TO DS 125 W/ 40.9 m OF 450 mm SICPP						7.48	67.4	93.4													40.9																	
DS 125	3+262.45	1.8	RT	CONSTRUCT 1.525m X 200mm CIRCULAR MANHOLE WITH FRAME AND COVER	540.300	NE	538.500	S	538.475		17.8	26.9																						2.2							1.0
				CONNECT TO DS 127 W/ 46.0 m OF 600 mm SICPP		NW	538.950			10.88	99.1	151.1														46.0																
DS 126	3+262	6.7	LT	CONSTRUCT 1.525m X 200mm CIRCULAR MANHOLE WITH FRAME AND COVER	540.140	NW	538.640	SW	538.615		8.2	24.3																						2.5				9.3			1.0
				CONNECT TO DS 125 W/ 7.1 m OF 600 mm SICPP						1.62	11.5	19.5														7.1																
DS 126A	3+250	6.7	LT	PLACE 750 mm END SECTION			540.825									1.0																										
				CONNECT TO DS 126 W/ 11.3 m OF 600 mm SICPP						19.34	31.7	44.4														11.3																
DS 127	3+310	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	536.134	N	533.500	S	533.475		14.2	34.3	56.8															3.6								8.0			1.0	
				CONNECT TO DS 129 W/ 33.0 m OF 600 mm SICPP		E	533.500			6.00	120.6	157.9														33.0																
DS 128	3+310	12.5	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	535.119			W	533.844		6.3	22.1	56.8															2.2								8.0			1.0	
				CONNECT TO DS 127 W/ 16.4 m OF 450 mm SICPP						2.10	24.1	34.5													16.4																	
					SUBTOTAL						543.0	851.9	227.3	0.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	113.4	0.0	97.4	0.0	9.8	0.0	0.0	0.0	0.0	4.6	4.6	0.0	0.0	56.2	0.0	0.0	4.0	4.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.G.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISEx1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRAINAGE TABLES
SHEET 3 OF 9

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
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Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_03.DGN	ONE	AUGUST 2011	DRT-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		49	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS "MTD" DWGS.

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6706 M	603.6706 08 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 129	3+345	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	533.377	N	531.500	S	531.475		9.9	27.6	56.8																2.8									8.0			1.0	
				CONNECT TO DS 132 W/ 43.5 m OF 600 mm SICPP		E	531.921			4.54	99.8	148.9														43.5																
DS 130	3+345	5.1	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	534.039			W	532.000		10.6	28.8	56.8																3.0									8.0			1.0	
				CONNECT TO DS 129 W/ 9.0 m OF 450 mm SICPP						0.88	24.6	30.3												9.0																		
DS 132	3+390	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	531.459	N	529.500	S	529.065		12.7	31.9	56.8																3.3									8.0			1.0	
				CONNECT TO DS 132B W/ 33.6 m OF 600 mm SICPP		E	529.921			0.50	106.8	144.8														33.6																
DS 132B	3+425	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	531.037	N	528.897	S	528.872		11.4	29.9	56.8																3.1									8.0			1.0	
				CONNECT TO DS 134 W/ 23.0 m OF 600 mm SICPP						0.50	63.6	89.6														23.0																
DS 133	3+390	5.1	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	531.555			W	530.000		7.9	24.5	56.8																2.5									8.0			1.0	
				CONNECT TO DS 132 W/ 9.0 m OF 450 mm SICPP						0.88	17.4	23.1												9.0																		
DS 134	3+450	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	530.939	N	528.757	S	528.732		11.6	30.3	56.8																3.1									8.0			1.0	
				CONNECT TO DS 136 W/ 58.1 m OF 600 mm SICPP		E	528.920			0.50	165.1	230.8														58.1																
DS 135	3+450		LT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH				W	529.000		30.3	36.8																								2.7						
		6.3		MANHOLE FRAME AND COVER	531.320																																				1.0
		4.7		WELDED FRAME AND RETICULINE GRATE 11	531.074																																			1.0	
				CONNECT TO DS 134 W/ 10.2 m OF 450 mm SICPP						0.78	32.6	39.0												10.2																		
DS 136	3+509	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	530.287	N	528.442	E	528.417		9.7	27.3	56.8																2.8									8.0			1.0	
				CONNECT TO DS 137 W/ 8.5 m OF 600 mm SICPP						0.55	19.0	28.6														8.5																
DS 137	3+509	4.7	LT	CONSTRUCT TYPE K DRAINAGE STRUCTURE	529.855	W	528.370	S	528.000		10.2	30.1																				2.8					8.7				
				CAST FRAME F2, UNMOUNTABLE CURB BOX & RETICULINE GRATE G2																																				1.0		
				CONNECT TO DS 138 W/ 42.2 m OF 600 mm SICPP						1.84	93.2	140.9														42.2																
DS 138	3+550	12.0	LT	PLACE 750 mm END SECTION			527.220									1.0																										
DS 138B	3+580	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	528.836			E	527.536		6.4	22.3	56.8																	2.2									8.0			
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																					1.0	
				CONNECT TO DS 138C W/ 7.9 m OF 300 mm SICPP						6.76	13.2	15.4											7.9																			
DS 138C	3+580	13.2	LT	PLACE 375 mm END SECTION			527.000							1.0																												
				SUBTOTAL							755.8	1181.2	454.7	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	28.2	0.0	208.9	0.0	20.6	2.2	0.0	2.8	0.0	0.0	0.0	2.7	0.0	73.0	1.0	1.0	8.0	1.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.C.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISEx1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRAINAGE TABLES
SHEET 4 OF 9

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_04.DGN	ONE	AUGUST 2011	DRT-4

DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
ESTIMATED BY K. BALDWIN
DESIGNED BY K. BALDWIN
JOB MANAGER K. BALDWIN
DESIGN SUPERVISOR W. SHAW
CHECKED BY W.SHAW
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS ON "MTD" DWGS.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		50	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		PIPE INVERT ELEVATIONS (m) OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6706 M	603.6706 08 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 138D	3+670	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	529.362			NE	527.410		10.1	28.0	56.8																2.9								8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																				1.0		
				CONNECT TO DS 139 W/ 7.9 m OF 600 mm SICPP						0.50	20.9	23.1														7.9																
DS 138E	3+670	11.2	LT	CONSTRUCT VORTEC UNIT																																						
				CONNECT TO DS 138D W/ XX m OF 600 mm SICPP																																						
DS 138F	3+670	13.2	LT	PLACE 750 mm END SECTION																																						
				CONNECT TO DS 138E W/ XX m OF 600 mm SICPP																																						
DS 139	3+670	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	529.333		527.490	NE	527.520		9.4	26.8	56.8															2.7								8.0			1.0	
				CONNECT TO DS 140 W/ 70.0 m OF 600 mm SICPP						3.40	20.8	24.6														70.0																
DS 140	3+740.7	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	531.480	NE	530.000	NE	530.400		5.2	20.4	56.8															2.0								8.0			1.0	
				CONNECT TO DS 142 W/ 48.1 m OF 600 mm SICPP		SE	529.900			0.98	10.8	14.6														48.1																
DS 141	3+740.7	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	531.500			SW	530.205		6.4	22.3	56.8															2.2								8.0			1.0	
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																						
				CONNECT TO DS 140 W/ 7.9 m OF 375 mm SICPP						2.38	13.1	15.3											7.9																			
DS 142	3+790		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	531.450	NE	531.461		23.9	29.6																							2.2						
		2.9		MANHOLE FRAME AND COVER	533.300	SE	530.400																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	533.205																																		1.0	
				CONNECT TO DS 144 W/ 52.1 m OF 450 mm SICPP						2.21	205.6	260.0												52.1																		
DS 143	3+790	5.1	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	533.205			SW	531.536		8.5	25.5	56.8															2.6								8.0			1.0	
				CONNECT TO DS 142 W/ 6.8 m OF 375 mm SICPP							18.8	22.6											6.8																		
DS 144	3+843		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		SE	532.824	NE	532.794		19.8	24.9																							1.9						
		2.9		MANHOLE FRAME AND COVER	534.320																																				1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	534.260																																		1.0	
				CONNECT TO DS 146 W/ 85.7 m OF 450 mm SICPP						1.65	161.3	215.8												85.7																		
DS 145	3+843	5.1	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	534.387	SW	532.654	NW	532.624		9.1	26.4	56.8															2.7								8.0			1.0	
				CONNECT TO DS 144 W/ 6.8 m OF 600 mm SICPP						2.05	17.3	21.6														6.8																
				SUBTOTAL							560.9	801.5	341.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	137.8	0.0	132.8	0.0	12.3	2.9	0.0	0.0	0.0	0.0	0.0	4.0	0.0	48.2	0.0	1.0	7.0	2.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.G.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISE×1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRAINAGE TABLES
SHEET 5 OF 9

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_05.DGN	ONE	AUGUST 2011	DRT-5

DESIGN SUPERVISOR W. SHAW
JOB MANAGER K. BALDWIN
DESIGNED BY K. BALDWIN
CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN
DRAFTED BY B. PARKER
CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		51	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS "MTD" DWGS.

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		PIPE INVERT ELEVATIONS (m) OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6706 M	603.6706 08 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 146	3+930		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	534.264	NW	534.239		19.5	24.5																							1.8						
		2.9		MANHOLE FRAME AND COVER	535.740	SE	534.330																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	535.700																																		1.0	
				CONNECT TO DS 148 W/ 83.7 m OF 450 mm PERF. SICPP						1.34	154.1	207.3														83.7															
DS 146B	3+930	5.1	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	535.648			SW	534.298		6.7	22.7	56.8																2.28								8.0			1.00	
				CONNECT TO DS 146 W/ 6.8 m OF 450 mm PERF. SICPP						0.50	10.8	15.1														6.80															
DS 147A	4+015	5.1	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	536.830			NE	535.555		6.3	22.1	56.8																2.2								8.0			1.0	
				CONNECT TO DS 148 W/ 1.5 m OF 375 mm SICPP						0.53	2.3	3.0											1.5																		
DS 147B	4+015	5.1	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	536.777			SW	535.502		6.3	22.1	56.8																2.2								8.0			1.0	
				CONNECT TO DS 148 W/ 5.7 m OF 375 mm SICPP						0.51	8.9	11.4											5.7																		
DS 148	4+015	1.8	RT	CONSTRUCT 1.525m X 200mm CIRCULAR MANHOLE WITH FRAME AND COVER	536.938	NE	535.473	NW	535.448		15.8	20.7																				1.8									1.0
				CONNECT TO DS 149 W/ 63.8 m OF 450 mm PERF. SICPP		SE	535.547			1.10	128.7	156.9														63.8															
						SW	535.547																																		
DS 149	4+080		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	536.620	NW	536.610		16.3	20.9																							1.6						
		2.9		MANHOLE FRAME AND COVER	537.870	SE	536.620																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	537.780																																		1.0	
				CONNECT TO DS 152B W/ 26.9 m OF 450 mm PERF. SICPP						1.71	38.8	55.9														26.9															
DS 151	4+080	5.1	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	537.870			SW	536.688		5.8	21.3	56.8																2.1								8.0			1.0	
				CONNECT TO DS 149 W/ 6.8 m OF 450 mm PERF. SICPP						1.00	8.9	13.3														6.8															
DS 152A	4+122.1	7.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	538.998			SW	537.230		7.6	14.5	56.8																2.6								8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																				1.0		
				CONNECT TO DS 152 W/ 14.0 m OF 450 mm PERF. SICPP						1.00	15.7	20.1														14.0															
DS 152	4+108	5.1	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	538.640		537.170	SW	537.159		7.5	23.9	56.8																2.4								8.0			1.0	
				CONNECT TO DS 152B W/ 6.9 m OF 450 mm PERF. SICPP						1.00	12.5	16.9														6.9															
DS 152B	4+108	2.9	RT	CONSTRUCT 1.220m X 200mm CIRCULAR MANHOLE WITH FRAME AND COVER	538.676	NE	537.090	NW	537.080		14.0	17.7																					1.9								1.0
				CONNECT TO DS 153 W/ 44.0 m OF 450 mm PERF. SICPP		SE	537.090			0.93	87.9	115.9														44.0															
DS 153	4+153		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	537.683	NW	537.630		26.7	32.8																							2.8						
		2.9		MANHOLE FRAME AND COVER	539.680	SE	537.683																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	539.630																																		1.0	
				CONNECT TO DS 156 W/ 31.7 m OF 450 mm PERF. SICPP						0.98	87.1	107.2														31.7															
					SUBTOTAL						688.1	966.1	341.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	284.6	0.0	0.0	11.2	2.6	0.0	0.0	1.8	1.9	0.0	6.2	0.0	48.2	0.0	1.0	8.0	5.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.G.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISEx1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRAINAGE TABLES
SHEET 6 OF 9

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_06.DGN	ONE	AUGUST 2011	DRT-6

DESIGN SUPERVISOR W. SHAW
JOB MANAGER K. BALDWIN
ESTIMATED BY K. BALDWIN
DESIGNED BY K. BALDWIN
CHECKED BY W.SHAW
DRAFTED BY B. PARKER
CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS "MTD" DWGS.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		52	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		PIPE INVERT ELEVATIONS (m) OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6706 M	603.6706 08 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 154	4+143.2	7.9	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	540.172			SW	537.880		10.0	18.0	56.8																	3.1								8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																				1.0		
				CONNECT TO DS 155 W/ 12.0 m OF 450 mm PERF. SICPP						1.00	21.7	26.1														12.0																
DS 155	4+153	4.7	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	539.630		537.760	SW	537.752		8.1	15.2	56.8																	2.8								8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																				1.0		
				CONNECT TO DS 153 W/ 6.9 m OF 450 mm PERF. SICPP						1.00	17.0	21.4														6.9																
DS 156	4+186		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	538.000	NW	537.995		30.1	36.6																								3.1						
		2.9		MANHOLE FRAME AND COVER	540.300	SE	538.000																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	540.200																																		1.0	
				CONNECT TO DS 159 W/ 73.0 m OF 450 mm PERF. SICPP						0.96	231.2	277.6														73.0																
DS 158	4+186	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	540.250			SW	538.069		11.5	30.1	56.8																3.1								8.0			1.0	
				CONNECT TO DS 156 W/ 6.9 m OF 450 mm PERF. SICPP						1.00	20.4	24.8														6.9																
DS 159	4+260	4.4	RT	CONSTRUCT 1.220m x 200mm CIRCULAR MANHOLE WITH FRAME AND COVER	541.670	SE	539.300	NW	538.700		21.3	28.6																					4.0				7.4				1.0
				CONNECT TO DS 160 W/ 89.1 m OF 450 mm PERF. SICPP						1.34	380.0	436.6														89.1																
DS 160	4+350		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	540.580	NW	540.500		28.7	35.0																								3.2						
		2.9		MANHOLE FRAME AND COVER	542.700	SE	540.580																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	542.600																																		1.0	
				CONNECT TO DS 163 W/ 58.8 m OF 450 mm PERF. SICPP						2.75	176.1	213.4														58.8																
DS 162	4+350	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	542.950			SW	540.643		12.2	31.2	56.8																	3.2								8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																				1.0		
				CONNECT TO DS 160 W/ 6.3 m OF 450 mm PERF. SICPP						1.00	20.0	24.0														6.3																
DS 163	4+410		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	542.587	NW	542.200		22.9	28.4																								2.8						
		2.9		MANHOLE FRAME AND COVER	543.960	SE	542.587																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	543.937																																		1.0	
				CONNECT TO DS 167 W/ 61.1 m OF 450 mm PERF. SICPP						3.25	138.6	177.4														61.1																
DS 165	4+410	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	543.937			SW	542.587		6.7	22.7	56.8																	2.8								8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																				1.0		
				CONNECT TO DS 163 W/ 6.4 m OF 450 mm SICPP						1.00	10.2	14.3												6.4																		
					SUBTOTAL						1166.5	1461.5	284.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	314.1	0.0	0.0	3.1	11.9	0.0	0.0	0.0	4.0	0.0	9.1	0.0	47.6	0.0	4.0	4.0	4.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.C.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISEx1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DRAINAGE TABLES
SHEET 7 OF 9

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_07.DGN	ONE	AUGUST 2011	DRT-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER DESIGNED BY K. BALDWIN CHECKED BY W.SHAW CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS "MTD" DWGS.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		53	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6706 M	603.6706 08 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 166	4+472.2	4.6	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	546.307			NE	544.660		8.4	25.4	56.8															2.6									8.0			1.0	
				CONNECT TO DS 167 W/ 1.6 m OF 450 mm SICPP						3.75	3.3	4.3												1.6																	
DS 167	4+472.2	1.8	RT	CONSTRUCT TYPE K DRAINAGE STRUCTURE WITH CIRCULAR MANHOLE COVER	545.950	NE	544.518	NW	544.575		15.1	19.6																				2.3									1.0
				CONNECT TO DS 170 W/ 63.9 m OF 450 mm SICPP		SE	544.600			1.01	104.3	145.0												63.9																	
						SW	544.600																																		
DS 168	4+472.2	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	545.920			SW	544.570		6.7	22.7	56.8																2.3							8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																			1.0		
				CONNECT TO DS 167 W/ 5.2 m OF 450 mm SICPP						1.00	8.3	11.6												5.2																	
DS 169	4+537.2	4.6	RT	CONSTRUCT TYPE F DRAINAGE STRUCTURE WITH RETICULINE TYPE 11 F & G	546.689			NW	545.339		6.7	22.7	56.8															2.3									8.0			1.0	
				CONNECT TO DS 170 W/ 1.6 m OF 450 mm SICPP						1.00	2.5	3.6												1.6																	
DS 170	4+537.2	1.8	RT	CONSTRUCT TYPE K DRAINAGE STRUCTURE WITH CIRCULAR MANHOLE COVER	546.695	NE	545.248	NW	545.248		15.6	20.3																				2.4									1.0
				CONNECT TO DS 172 W/ 93.7 m OF 450 mm SICPP		SE	545.323			0.76	164.1	223.7												93.7																	
						SW	545.323																																		
DS 171	4+537.2	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	546.650			SW	545.300		6.7	22.7	56.8																2.3							8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																			1.0		
				CONNECT TO DS 170 W/ 5.2 m OF 450 mm SICPP						1.00	8.3	11.6												5.2																	
DS 172	4+632		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	546.060	NW	546.035		19.0	24.0																							1.8						
		2.9		MANHOLE FRAME AND COVER	547.500	SE	546.060																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	547.410																																		1.0	
				CONNECT TO DS 175 W/ 49.5 m OF 450 mm SICPP						1.15	88.2	119.7												49.5																	
DS 174	4+632	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	547.580			SW	546.124		7.3	23.7	56.8																2.4							8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																			1.0		
				CONNECT TO DS 172 W/ 6.4 m OF 450 mm SICPP						1.00	11.3	15.4												6.4																	
DS 175	4+682.7		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		NE	546.656	NW	546.631		19.1	24.0																							1.8						
		2.9		MANHOLE FRAME AND COVER	548.100	SE	546.656																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	548.070																																		1.0	
				CONNECT TO DS 178 W/ 36.1 m OF 450 mm SICPP						2.19	64.5	87.5												36.1																	
DS 177	4+682.7	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	548.070			SW	546.720		6.7	22.7	56.8																2.3							8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																			1.0		
				CONNECT TO DS 175 W/ 6.4 m OF 450 mm SICPP						1.00	10.2	14.3												6.4																	
				SUBTOTAL							576.5	864.4	341.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	269.6	0.0	0.0	0.0	4.9	9.2	0.0	0.0	4.7	0.0	0.0	3.6	0.0	48.2	0.0	4.0	4.0	4.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.G.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISEx1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRAINAGE TABLES
SHEET 8 OF 9

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_08.DGN	ONE	AUGUST 2011	DRT-8

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER DESIGNED BY K. BALDWIN CHECKED BY W.SHAW CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

NOTE: ALL TYPE F, TYPE K RECTANGULAR STRUCTURES AND TYPE 48 & 60 MANHOLES TO BE MODIFIED WITH LEACHING BASIN BOTTOMS. SEE DETAILS "MTD" DWGS.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		54	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

STRUCTURE NUMBER	STATION	OFFSET FROM HCL	SIDE	DESCRIPTION	RIM ELEVATION (m)	PIPE INVERT ELEVATIONS (m) INLET		PIPE INVERT ELEVATIONS (m) OUTLET		SLOPE (%)	203.07 M	206.04 M	207.20 M	603.171116 M	603.171216 M	603.171614 M	603.171814 M	603.6004 M	603.6704 M	603.6706 M	603.6706 08 M	603.7304 M	603.9812 M	603.9815 M	603.9818 M	605.98101818 M	603.9824 M	603.9830 M	604.300611 M	604.300673 M	604.301111 M	604.301172 M	604.311132 M	604.4048 M	604.4060 M	604.50XXYY M	604.5102NN15	623.11 M	655.0705 M	655.0706 M	655.1111M	655.1202 M
DS 178	4+720		RT	CONSTRUCT SPECIAL DRAINAGE STRUCTURE OFFSET CATCH BASIN WITH MH		SE	547.800	NW	547.445		19.0	24.0																							2.3						
		2.9		MANHOLE FRAME AND COVER	548.910	NE	547.450																																		1.0
		4.5		WELDED FRAME AND RETICULINE GRATE 11	548.820																																		1.0	
				CONNECT TO DS 179 W/ 7.2 m OF450 mm SICPP						1.00	33.3	45.2												7.2																	
DS 179	4+722	4.6	LT	CONSTRUCT TYPE F DRAINAGE STRUCTURE	548.900				547.522		6.9	23.0	56.8																2.3							8.0				
				CAST FRAME F3, UNMOUNTABLE CURB BOX & RETICULINE GRATE G3																																			1.0		
DS 181	A 9+927.4	4.2	RT	PLACE 1143mm X 736mm END SECTION																1.0																				
				CONNECT TO DS 182 W 12.3 m OF 1143mm X 736mm ELLIPTICAL RC			536.043			1.22	53.6	57.6							12.3																						
DS 182	A 9+923.9	7.6	LT	PLACE 1143mm X 736mm END SECTION					535.893											1.0																				
				SUBTOTAL							112.8	149.8	56.8	0.0	0.0	0.0	0.0	0.0	0.0	12.3	2.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	2.3	0.0	8.0	0.0	1.0	1.0	1.0
				TOTAL							6036.4	8754.9	3296.4	2.0	3.0	2.0	1.0	14.7	10.4	12.3	2.0	1.0	12.4	491.8	738.7	598.7	550.9	5.8	111.4	31.2	2.5	2.8	6.5	10.5	4.6	27.9	0.0	506.8	1.0	12.0	58.0	21.0

ITEM	DESCRIPTION	UNITS	ITEM	DESCRIPTION	UNITS
203.07 M	SELECT GRANULAR FILL	CM	603.9824 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIA.	M
206.04 M	TRENCH AND CULVERT EXCAVATION - O.G.	CM	603.9830 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 750 MM DIA.	M
207.20 M	GEOTEXTILE BEDDING	SM	604.300611 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME	M
603.171116 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 375 MILLIMETER DIAMETER, 16 GA.	EA	604.300673 M	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR CAST IRON F3 FRAME	M
603.171216 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 450 MILLIMETER DIAMETER, 16 GA.	EA	604.301111 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR RETICULINE TYPE 11 F & G	M
603.171614 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 750 MILLIMETER DIAMETER, 14 GA.	EA	604.301172 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K FOR CAST IRON F2 FRAME	M
603.171814 M	GALVANIZED STEEL END SECTIONS (68x13 MM CORR.) 900 MILLIMETER DIAMETER, 14 GA.	EA	604.311132 M	RECTANGULAR DRAINAGE STRUCTURE TYPE K WITH ROUND OPTION MANHOLE	M
603.6004 M	REINFORCED CONCRETE PIPE CLASS III, 525 MILLIMETER DIAMETER	M	604.4048 M	ROUND PRECAST CONCRETE MANHOLE TYPE 48	M
603.6704 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE,CLASS III, 610 MM RISE, 960 MM SPAN	M	604.4060 M	ROUND PRECAST CONCRETE MANHOLE TYPE 60	M
603.6706 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE, CLASS III 730 MM RISE, 1150 MM SPAN	M	604.50XXYY M	SPECIAL DRAINAGE STRUCTURE (OFFSET STRUCTURE)	M
603.6706 08 M	REINFORCED CONCRETE HORIZONTAL ELL. PIPE E.S., CLASS III 730 MM RISEx1150 MM SPAN	EA	604.5102NN15 M	STORMWATER TREATMENT SYSTEM	M
603.7304 M	REINFORCED CONCRETE PIPE END SECTIONS 525 MILLIMETER DIAMETER	EA	623.11 M	CRUSHED GRAVEL (IN PLACE MEASURE)	CM
603.9812 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 300 MM DIA.	M	655.0705 M	CAST FRAME F2, UNMOUNTABLE CURB BOX CU2 & RETICULINE GRATE G2	EA
603.9815 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIA.	M	655.0706 M	CAST FRAME F3, UNMOUNTABLE CURB BOX CU3 & RETICULINE GRATE G3	EA
603.9818 M	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 450 MM DIA.	M	655.1111 M	WELDED FRAME AND RETICULINE GRATE 11	EA
605.98101818 M	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 455 MM DIA.	M	655.1202 M	MANHOLE FRAME AND COVER	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRAINAGE TABLES
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Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_DRT_09.DGN	ONE	AUGUST 2011	DRT-9

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		55	205

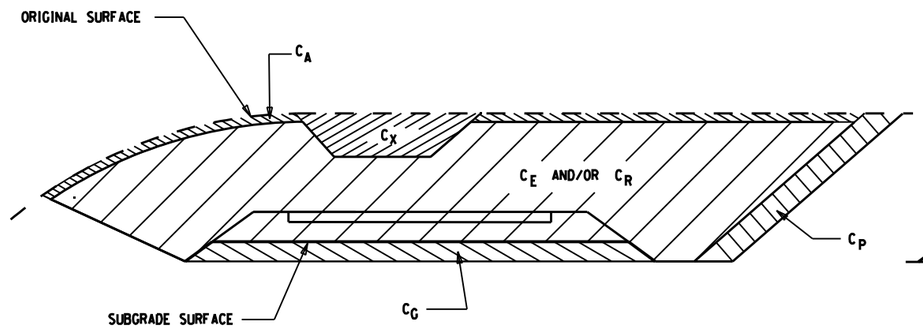
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY)

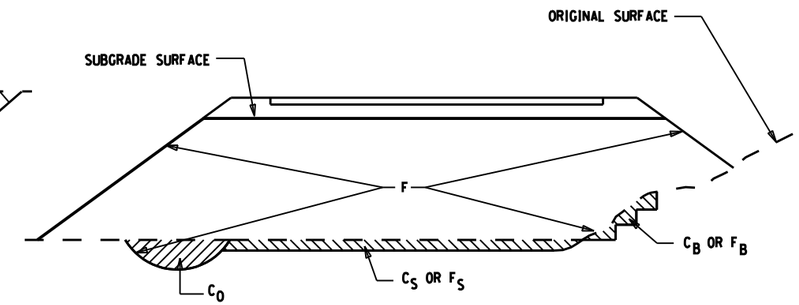
SOURCE	EXCAVATION			ITEM 203.02	ITEM 203.03
	T_E	C_A	T_U	C_T	F_T
OLD MILITARY ROAD 1+790± TO 4+370±	3,995.4		16,011.4	20,006.8	3,810.5
CARYOLN DRIVE CA 10+005± TO CA 10+030±			99.8	99.8	7.0
MILL POND DRIVE MPD 10+005± TO MPD 10+045±			158.8	158.8	19.6
AVERYVILLE ROAD A 9+880± TO A 10+040±			379.0	379.0	75.6
RETAINING WALLS RW 1 TO RW 5	2,138.6			2,138.6	
DETENTION BASINS	5,180.0	4,500.0		9,680.0	
TOTALS	11,314.0	4,500.0	16,649.0	32,463.0	3,912.7

SUMMARY OF TRENCH AND CULVERT EXCAVATION (ITEMS 206.02 AND 206.04 ONLY)

SOURCE	EXCAVATION		ITEM 206.02	ITEM 206.04
	ROCK	NON-ROCK		
OLD MILITARY ROAD DRAINAGE		11,950.0	1,200.0	10,750.0
TOTALS		11,950.0	1,200.0	10,750.0



CUT SECTION



FILL SECTION

DEFINITIONS:

C_B - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).

C_G - EXCAVATION FOR SUBGRADE IMPROVEMENT.

C_P - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.

C_E - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING C_G AND C_P.

T_E - $(C_B + C_G + C_P + C_E)$ TOTAL EARTH EXCAVATION ASSUMED SUITABLE FOR EMBANKMENT CONSTRUCTION.

C_A - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) IN CUT.

C_S - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.

C_X - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP

C_O - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP

T_U - $(C_A + C_S + C_X + C_O)$ TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.

C_R - PORTION OF CUT ASSUMED TO BE ROCK, INCLUDING C_G IF APPLICABLE.

C_T - $(T_E + T_U + C_R)$ TOTAL EXCAVATION.

DEFINITIONS:

F_B - FILL REQUIRED TO REPLACE BENCHES.

F_S - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.

F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.

F_T - $(F_B + F_S + F)$ TOTAL FILL REQUIRED.

T_A - $(T_E \times F_E + C_R \times F_R)$ THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.

F_E - SHRINKAGE FACTOR FOR EARTH

F_R - SWELL FACTOR FOR ROCK

NOTES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.

203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL
203.03 EMBANKMENT IN PLACE
206.02 TRENCH AND CULVERT EXCAVATION
206.04 TRENCH AND CULVERT EXCAVATION - O.G.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

STA. TO STA.

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
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Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH.ESS	ONE	AUGUST 2011	ESS-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		56	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

SUBDIVISION NO.	LOCATION (STATION TO STATION)	SUITABLE EXCAVATION					ROCK	UNSUITABLE EXCAVATION					TOTAL EXCAVATION	EMBANKMENT			
		C_B	C_G	C_P	C_E	T_E	C_R	C_A	C_S	C_X	C_O	T_U	C_T	F_B	F_S	F	F_T
1A	OLD MILITARY ROAD STA. 1+790± TO STA. 2+160±											2,992.0	2,992.0			60.8	60.8
1B	OLD MILITARY ROAD STA. 2+160± TO STA. 2+200±				426.4	426.4						142.2	568.6			1.6	1.6
1C	OLD MILITARY ROAD STA. 2+200± TO STA. 2+660±											2,763.6	2,763.6			109.6	109.6
1D	OLD MILITARY ROAD STA. 2+660± TO STA. 2+790±				1,502.7	1,502.7						501.0	2,003.7				
1E	OLD MILITARY ROAD STA. 2+790± TO STA. 2+880±											416.0	416.0			56.3	56.3
1F	OLD MILITARY ROAD STA. 2+880± TO STA. 2+960±				1,264.8	1,264.8						421.6	1,686.4				
1G	OLD MILITARY ROAD STA. 2+960± TO STA. 3+150±											1,090.2	1,090.2			45.9	45.9
1H	OLD MILITARY ROAD STA. 3+150± TO STA. 3+200±				801.5	801.5						267.1	1,068.6				
1I	OLD MILITARY ROAD STA. 3+200± TO STA. 4+370±											7,417.7	7,417.7			3,536.3	3,536.3
2	CARYOLN DRIVE STA. CA 10+005± TO STA. CA 10+030±											99.8	99.8			7.0	7.0
3	MILL POND DRIVE STA. MPD 10+005± TO STA. MPD 10+045±											158.8	158.8			19.6	19.6
4	AVERYVILLE ROAD STA. A 9+880± TO STA. A 10+040±											379.0	379.0			75.6	75.6
5A	RETAINING WALL NO. 1 (RW 1) STA. 2+110± TO STA. 2+210±				522.4	522.4							522.4				
5B	RETAINING WALL NO. 2 (RW 2) STA. 2+890± TO STA. 2+950±				511.0	511.0							511.0				
5C	RETAINING WALL NO. 3 (RW 3) STA. 3+160± TO STA. 3+224±				548.9	548.9							548.9				
5D	RETAINING WALL NO. 4 (RW 4) STA. 3+790± TO STA. 3+834±				252.3	252.3							252.3				
5E	RETAINING WALL NO. 5 (RW 5) STA. 4+200± TO STA. 4+291±				304.0	304.0							304.0				
6	DETENTION BASINS				5,180.0	5,180.0		4,500.0					9,680.0				
	TOTALS				11,314.0	11,314.0		4,500.0				16,649.0	32,463.0			3,912.7	3,912.7

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

FOR DEFINITIONS AND NOTES SEE DWG. ES-1

AS BUILT REVISIONS

SIGNATURE DATE

STA. TO STA.

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPH.ESS	ONE	AUGUST 2011	ESS-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW

FILE NAME =
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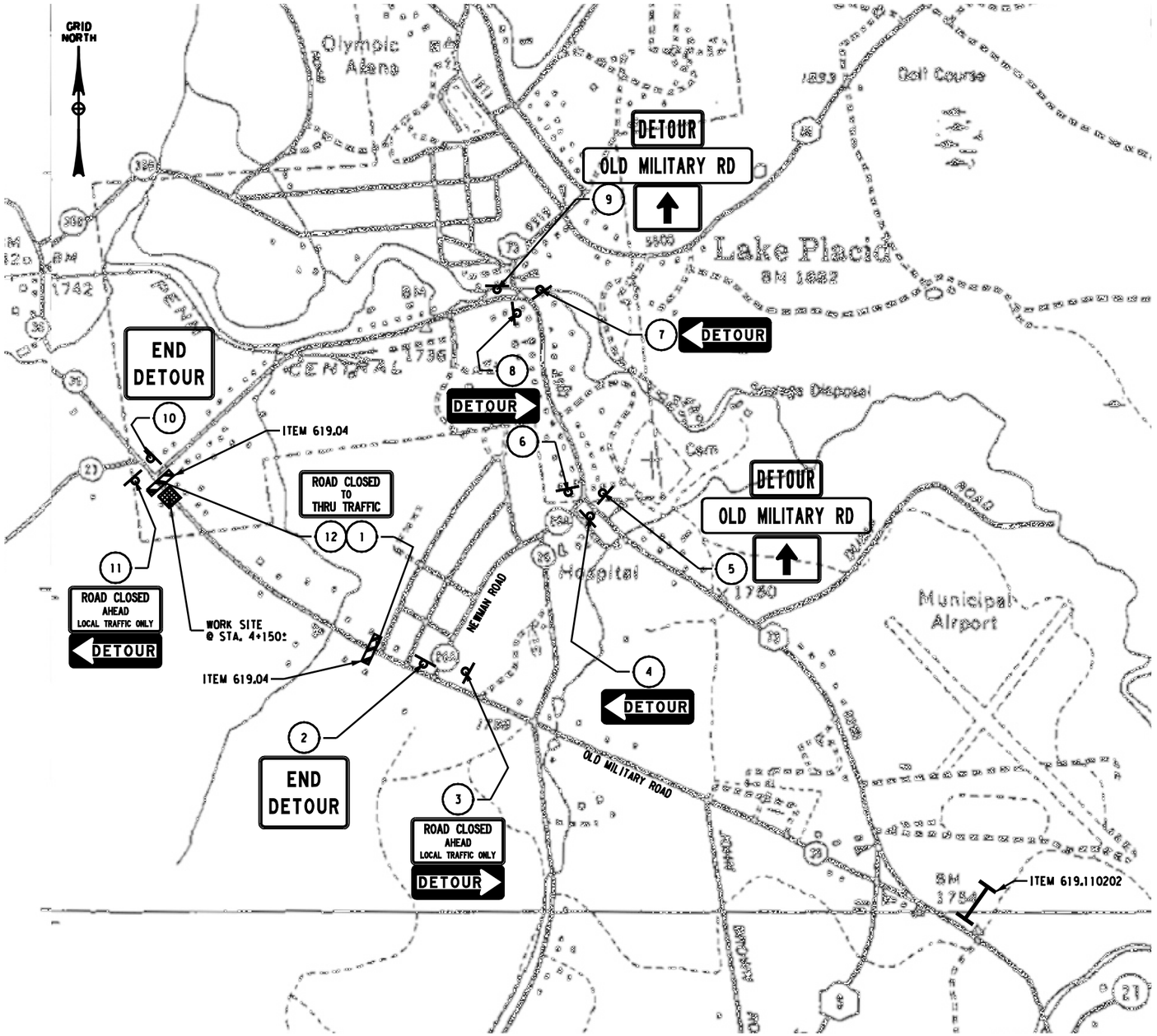
1	N.Y.		57	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

SIGNING NOTES:

1. SIGN LOCATIONS AS SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL INSTALL NEW SIGNS AND RELOCATE EXISTING SIGNS IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENT.
2. THE COLOR IS ONLY SHOWN WHEN THERE IS AN OPTION THAT MUST BE SPECIFIED.
3. THE SIGN AREAS ARE SHOWN FOR INFORMATION PURPOSES.



PLAN - DETOUR
ARCHAEOLOGICAL INVESTIGATION DIG
@ STA. 4+150±
N.T.S.

NOTE: THIS DETOUR LAYOUT IS ONLY TO BE USED FOR THE WORK AT THE STA. 4+150± SITE.
THIS DETOUR SHALL BE UTILIZED AND REMOVED PRIOR TO IMPLEMENTING ANY OTHER CONTRACT DETOURS.

DESIGNATION	LOCATION	TEXT	ITEM	SIZE (AREA)	SUBTOTAL AREA (TOTAL AREA)
R11-4	1, 12 (2)	ROAD CLOSED TO THRU TRAFFIC	619.01	1500 x 750	1.1 m²
				1.1 m²	2.2 m²
M4-8a	2, 10 (2)	END DETOUR	619.01	600 x 450	0.3 m²
				0.3 m²	0.6 m²
R11-3a M4-10 R	3 (1)	ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY DETOUR	619.01	1500 x 750 1200 x 450	1.6 m²
				1.1 m² 0.5 m²	1.6 m²
M4-10 L	4, 7 (2)	DETOUR	619.01	1200 x 450	0.5 m²
				0.5 m²	1.0 m²
M4-10 R	5, 9 (2)	DETOUR	619.01	1200 x 450	0.5 m²
				0.5 m²	1.0 m²
M4-8 D3-1 M6-3	6, 8 (2)	DETOUR OLD MILITARY RD	619.01	600 x 300 1350 x 300 525 x 375	0.8 m²
				0.2 m² 0.4 m² 0.2 m²	1.6 m²
R11-3a M4-10 L	11 (1)	ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY DETOUR	619.01	1500 x 750 1200 x 450	1.6 m²
				1.1 m² 0.5 m²	1.6 m²

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AS BUILT REVISIONS

SIGNATURE DATE

ARCHAEOLOGICAL INVESTIGATIONAL DIG DETAILS
(SHEET 1 OF 2)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPH.DET.ARCH.DGN	ONE	AUGUST 2011	ARCH-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
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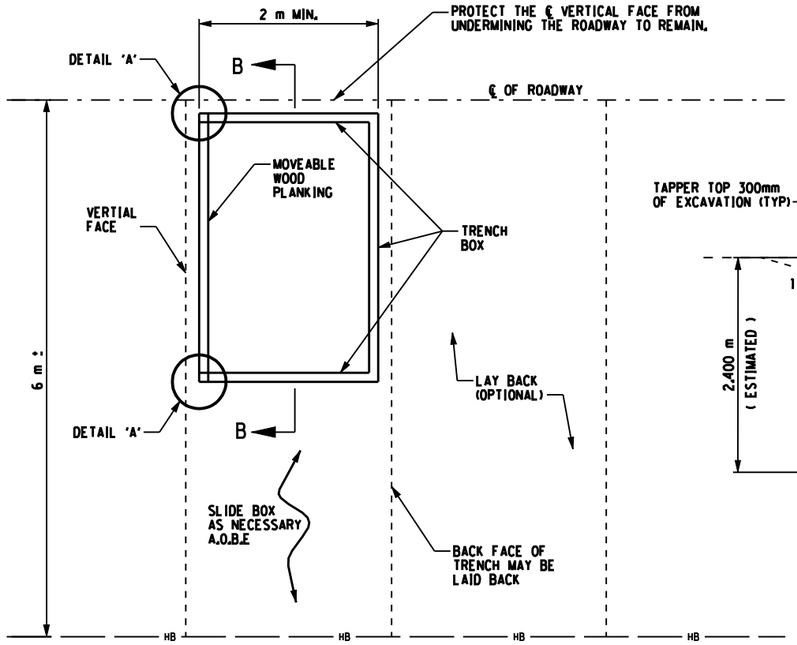
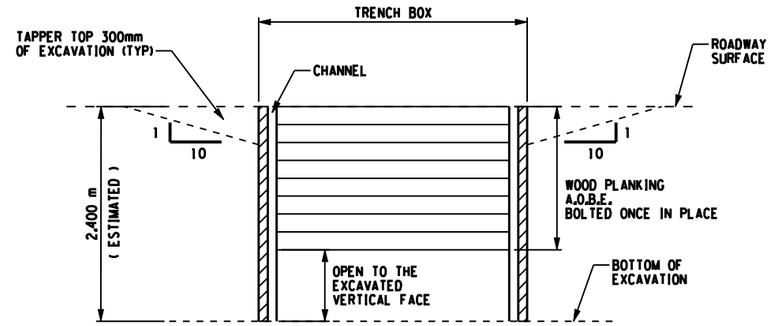
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		58	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



ARCHAEOLOGICAL INVESTIGATION EXCAVATION

PLAN
LOCATION OF EXCAVATIONS: STA. 2+710± & STA. 4+150±
N.T.S.



ARCHAEOLOGICAL INVESTIGATION EXCAVATION

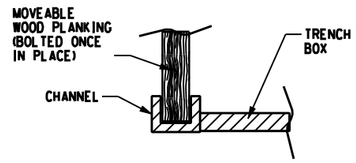
ELEVATION B-B
N.T.S.

ARCHAEOLOGICAL EXCAVATION - SUGGESTED SEQUENCE OF WORK

STEP	DESCRIPTION
1.	EXCAVATE SITE AS DIRECTED BY THE ENGINEER. CARE TO BE TAKEN TO PROVIDED A NEAR VERTICAL FACE ON A SIDE PERPENDICULAR TO ROADWAY CENTERLINE.
2.	PLACE TRENCH BOX SYSTEM AS DIRECTED BY ENGINEER. SEE DETAILS.
3.	ARCHAEOLOGIST PERFORMS ISNPECTION.
4.	SLIDE BOX SYSTEM LATERALLY AS NEEDED TO PROVIDE ACCESS TO ADJACENT TRENCH FACE. FOR FURTHER INSPECTION OPERATIONS. OR A.O.B.E.
5.	REMOVE BOX SYSTEM. BACKFILL AND COMPACT BOTTOM 1.0m OF TRENCH. REINSTALL BOX SYSTEM IF NECESSARY AS ORDERED BY THE ENGINEER AND REPEAT STEPS 2 THRU 4.
6.	UPON COMPLETION OF INSPECTION REMOVE BOX SYSTEM AND COMPLETE THE BACKFILL OPERATION TO THE SATISFACTION OF THE ENGINEER.
7.	THE WORK AREA SHALL BE PAVED UPON COMPLETION OF WORK.
8.	PAYMENT FOR EXCAVATION, TRENCH BOX, BACKFILL, SUBBASE, PAVEMENT AND ANY OTHER ITEMS NECESSARY TO COMPLETE THIS WORK SHALL BE PAID FOR UNDER THE APPROPRIATE CONTRACT ITEMS.
9.	THE DETOUR, FOR WORK PERFORMED AT THE STA. 4+150± SITE, SHALL BE UTILIZED AND REMOVED PRIOR TO UTILIZING ANY OTHER CONTRACT DETOURS.
10.	THE WORK, FOR THE STA. 2+710± SITE, SHALL BE STARTED AFTER THE CONTRACT DETOUR IS IN PLACE FOR THIS AREA.

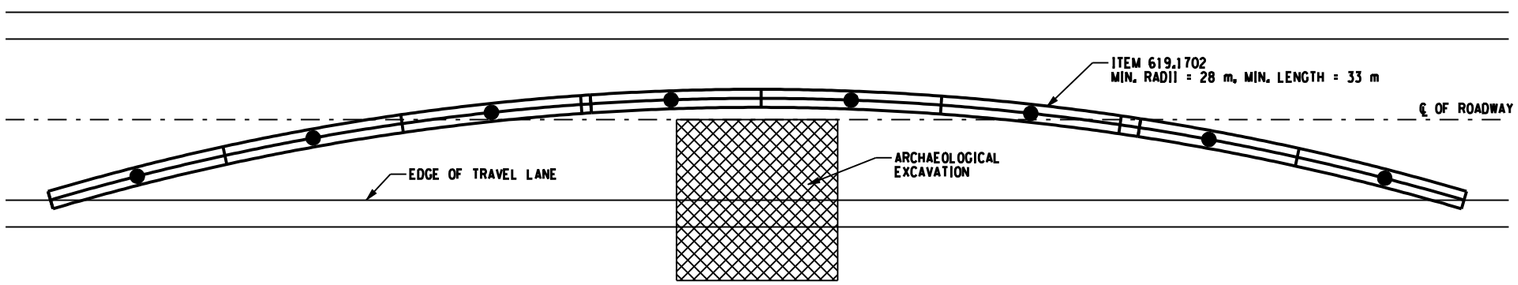
ARCHAEOLOGICAL EXCAVATION NOTES:

1. CONTRACTOR MUST DESIGN AND SUBMIT AN EXCAVATION PROTECTION SYSTEM FOR THIS WORK, SIGNED BY A NEW YORK STATE PE (MUST MEET OSHA REQUIREMENTS).
2. SCENARIO SHOWN TO PORTRAY WORK TO BE DONE. ALTERNATE METHODS ARE ALLOWED.
3. THE TRENCH WILL BE MECHANICALLY STRIPPED OF ASPHALT AND RECENT SUBBASE OVER THE ENTIRE UNIT. ADDITIONALLY, THE TRENCH WILL BE MECHANICALLY EXCAVATED TO STERILE SUB SOILS ALONG ONE AXIS, PERPENDICULAR TO ℄, TO CREATE A PROFILE OF THE ROADWAY. A.O.B.E.
4. THE EXCAVATIONS WILL BE UNFILLED AND COVERED OR PROTECTED FOR TWO (2) DAYS DURING THE INVESTIGATIONS. ONLY ONE (1) TRENCH WILL BE OPEN AND INVESTIGATED AT A TIME.
5. TRENCH MAY BE BACKFILLED WITH EXISTING MATERIAL.



ARCHAEOLOGICAL INVESTIGATION EXCAVATION

DETAIL 'A'
N.T.S.



ARCHAEOLOGICAL INVESTIGATION EXCAVATION

ITEM 619.1702 TEMPORARY CONCRETE BARRIER (UNPINNED) WITH WARNING LIGHTS
N.T.S.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

ARCHAEOLOGICAL INVESTIGATIONAL DIG DETAILS (SHEET 2 OF 2)

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CHP_DET_ARCH.DGN	ONE	AUGUST 2011	ARCH-2

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1	N.Y.		59	205

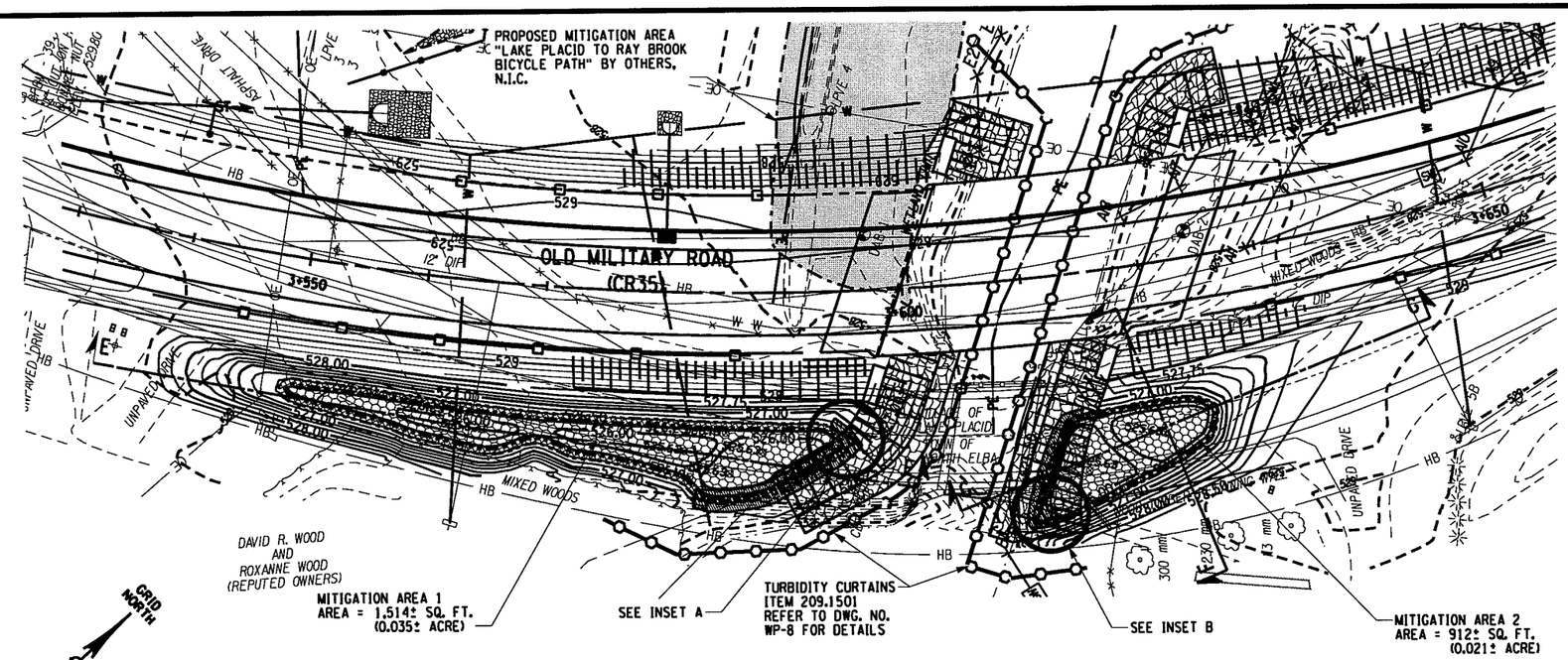
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

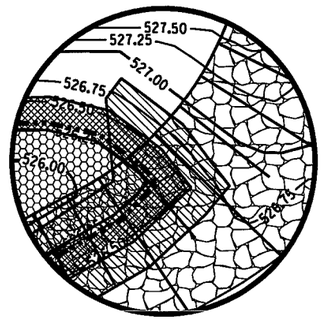
TOWN OF NORTH ELBA

ESSEX COUNTY



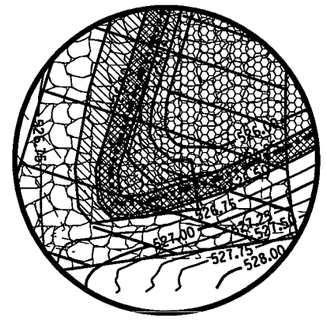
WETLAND MITIGATION PLAN

SCALE: 1:250
CONTOUR INTERVAL = 0.25m



INSET A

SCALE: 1:75
CONTOUR INTERVAL = 0.25m



INSET B

SCALE: 1:75
CONTOUR INTERVAL = 0.25m

OVERALL MITIGATION AREA = 6,224± SQ. FT. (0.143± ACRE)

TABLE 2 - ZONE 1

PALUSTRINE EMERGENT SEED MIX (PEM):

PERCENT BY NUMBER OF SEEDS
(NOT BY WEIGHT)

1.00%	ALISMA PLANTAGO-AQUATICA	MUD PLANTAIN
0.50%	ASCLEPIAS INCARNATA	SWAMP MILKWEED
1.00%	ASTER NOVI-BELGII	NEW YORK ASTER
2.00%	BIDENS CERNUA	NODDING BUR MARIGOLD
2.00%	CAREX COMOSA	BRISTLY/COSMOS SEDGE
2.00%	CAREX CRINITA	FRINGED SEDGE (NODDING)
5.00%	CAREX LUPULINA	HOP SEDGE
11.00%	CAREX LURIDA	LURID SEDGE (SHALLOW)
10.00%	CAREX SCOPARIA	BLUNT BROOM SEDGE
32.00%	CAREX VULPINOIDEA	FOX SEDGE
1.50%	EUPATORIUM MACULATUM	SPOTTED JOE PYE WEED
1.50%	EUPATORIUM PERFOLIATUM	BONESET
2.00%	GLYCERIA CANADENSIS	RATTLESNAKE GRASS
4.00%	GLYCERIA STRIATA	FOWL MANNAGRASS
2.00%	JUNCUS EFFUSUS	SOFT RUSH
1.00%	MIMULUS RINGENS	SQUARE STEMMED MONKEY FLOWER
7.00%	ONOCLEA SENSIBILIS	SENSITIVE FERN
5.00%	SCIRPUS ATROVIRENS	GREEN BULRUSH
2.50%	SCIRPUS CYPERINUS	WOOL GRASS
1.00%	SCIRPUS VALIDUS	SOFT STEM BULRUSH
6.00%	VERBENA HASTATA	BLUE VERVAIN

TABLE 1 - ZONE 2

NORTHEAST UPLAND WILDFLOWER/RESTORATION (NUWREM)
EROSION MIX

PERCENT BY NUMBER OF SEEDS GRASS PORTION 42 POUNDS
(NOT BY WEIGHT)

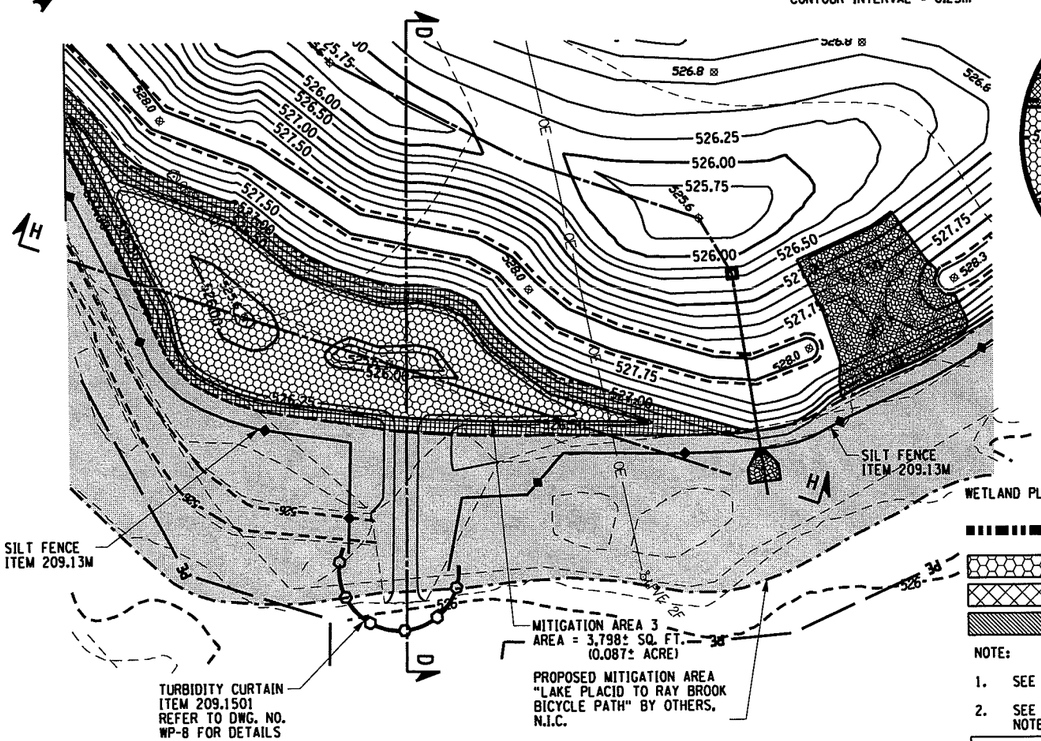
60.8%	AGROSTIS ALBA	REDTOP
27.5%	FESTUCA RUBRA	RED FESCUE
11.7%	LOLIUM MULTIFLORUM	ANNUAL RYEGRASS

NUMBER OF SEEDS LEGUME PORTION 4 POUNDS
(NOT BY WEIGHT)

100%	LOTUS CORNICULATUS	BIRDS-FOOT TREFOIL

NUMBER OF SEEDS WILDFLOWER PORTION 1 POUND

41.9%	ACHILLEA MILLEFOLIUM	COMMON YARROW
24.1%	RUDBECKIA HIRTA	BLACK-EYED SUSAN
9.8%	CHRYSANTHEMUM LEUCANTHEM	OX-EYE DAISY
8.6%	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER
6.5%	LOBELIA CARDINALIS	CARDINAL FLOWER
5.8%	DAUCUS CAROTA	QUEEN ANNE'S LACE
3.3%	POLYGONUM PENSYLVANICUM	PENNSYLVANIA SMARTWEED



WETLAND MITIGATION PLAN

SCALE: 1:250
CONTOUR INTERVAL = 0.25m

WETLAND PLANTING LEGEND

- LIMITS OF MITIGATION AREA
- ZONE 1 - LOWLAND AREA 610mm - 1.220m DEEP (ELEV 525.63 - 526.24)
- ZONE 2 - UPLAND AREA 0.0m - 0.610m DEEP (ELEV. 526.24 - 526.24)
- LIVE CUTTING/ LIVE STAKE JOINT PLANTING AREA

NOTE:

1. SEE TABLES 1 AND 2, THIS SHEET, FOR AREAS OF WETLAND SEEDING.
2. SEE DRAWING NO. WP-2 FOR CONSTRUCTION, PLANTING AND MAINTENANCE NOTES.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.
4. FOR ROADWAY CONSTRUCTION DETAILS, REFER TO DRAWINGS NOS. GP-11, GP-12, GP-12A, AND GP-13.

SCALE: 5 0 5 10 15 20 25 m

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

STATE OF NEW YORK
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WETLAND MITIGATION AREA
(SHEET 1 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env_01	ONE	AUGUST 2011	WP-1

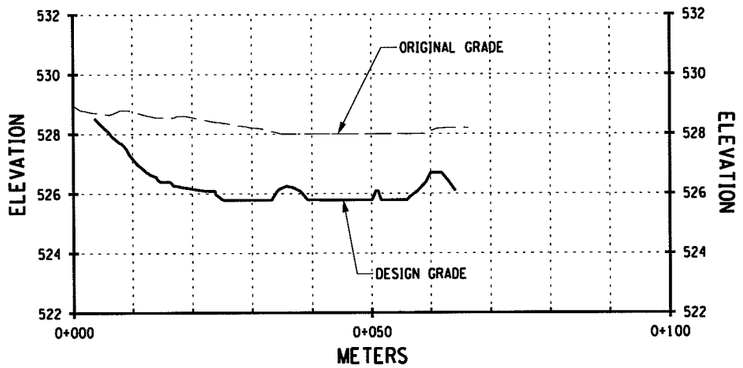
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		60	205

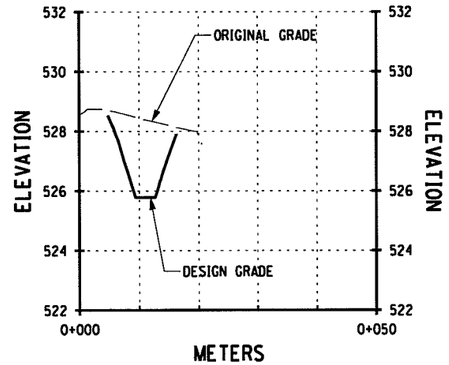
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

MITIGATION AREA 1
SECTION E-E



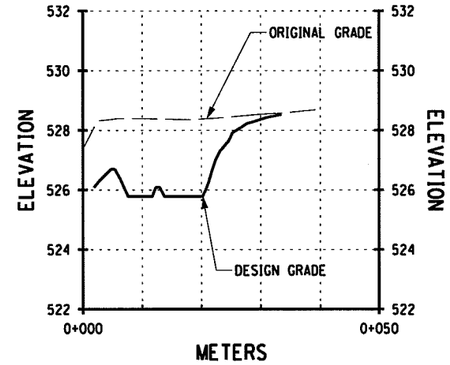
MITIGATION AREA 1
SCALE: HORIZ: 1:500
VERT: 1:100

MITIGATION AREA 2
SECTION F-F



MITIGATION AREA 2
SCALE: HORIZ: 1:500
VERT: 1:100

MITIGATION AREA 2
SECTION G-G



MITIGATION AREA 2
SCALE: HORIZ: 1:500
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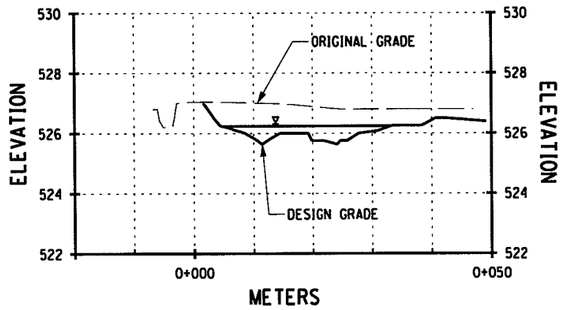
MITIGATION AREA 3
SECTION H-H

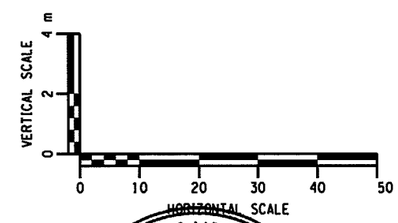


MITIGATION AREA 3
SCALE: HORIZ: 1:500
VERT: 1:100

SEE SECTION D-D, DWG. NO. WP-5
FOR ADDITIONAL MITIGATION AREA 3
GRADE INFORMATION

NOTE:

1. FOR ROADWAY CONSTRUCTION DETAILS, REFER TO DRAWINGS NOS. GP-11, GP-12, GP-12A, AND GP-13.



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STATE OF NEW YORK
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SIGNATURE DATE

WETLAND MITIGATION AREA
PROFILES
(SHEET 2 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env_01A	ONE	AUGUST 2011	WP-1A

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME = DATE/TIME = AUGUST 18, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		61	205

P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY

EXCAVATION IN WETLAND CREATION AREAS

1. WETLAND DISTURBANCE • THE CONTRACTOR WILL CONSTRUCT THE NEW, REALIGNED PORTION OF OLD MILITARY ROAD IN THE VICINITY OF THE BRIDGE OVER THE CHUBB RIVER PRIOR TO THE CONSTRUCTION OF THE WETLAND MITIGATION AREA. DURING THE CONSTRUCTION OF THE NEW ROAD ALIGNMENT, THE CONTRACTOR WILL REMOVE AND STOCKPILE THE SOILS IN THE AREA IDENTIFIED AS WETLAND A IN ACCORDANCE WITH ITEM 613.01 01 • WETLAND TOPSOIL.

2. STREAM DISTURBANCE • THE AREAS AROUND THE EXISTING BRIDGE OVER THE CHUBB RIVER WILL BE EXCAVATED TO ALLOW FOR THE CONSTRUCTION OF THE NEW BRIDGE. THE MATERIALS DISTURBED AND/OR EXCAVATED IN THIS AREA OF THE PROJECT SHALL BE DONE SO IN ACCORDANCE WITH ITEM 613.04 01 • STOCKPILING AND PLACING STREAMBED MATERIALS.

3. WETLAND MITIGATION AREA CONSTRUCTION • THE AREA ALONG THE NEW ROADWAY AT THE NORTHEAST QUADRANT OF THE NEW BRIDGE OVER THE CHUBB RIVER WHERE MITIGATION WILL TAKE PLACE WILL BE DONE IN ACCORDANCE WITH ITEM 613.01 01 • WETLAND TOPSOIL. THE MITIGATION AREA CONSTRUCTION WILL NOT BEGIN UNTIL THE CONSTRUCTION OF THE NEW PORTION OF ROADWAY HAS BEEN COMPLETED. THE AREA OF THE WETLAND WILL BE EXCAVATED TO A DEPTH OF 0.15-METERS (0.5-FEET) BELOW THE WATER LEVEL IN THE CHUBB RIVER. THE AREA WILL THEN BE BACKFILLED WITH MATERIALS EXCAVATED AND STOCKPILED UNDER ITEM 613.0401 TO A DEPTH OF 0.15-METERS (6-INCHES) THICK.

4. CONSTRUCTION OF THE MITIGATION WILL BEGIN AFTER ISSUANCE OF THE NEW YORK STATE ADIRONDACK PARK AGENCY, USACE, AND NYSDEC PERMIT AND IN ACCORDANCE WITH THE NOTIFICATION REQUIREMENTS OF THE PERMIT. ALTHOUGH MOST OF THE VEGETATION IN THE MITIGATION WETLAND IS SHRUB/SCRUB, ANY REQUIRED TREE CLEARING WILL BE IN ACCORDANCE WITH THE DATE RESTRICTIONS IDENTIFIED IN THE PERMIT.

5. THIS WORK SHALL CONSIST OF THE EXCAVATION, STOCKPILING, AND PLACEMENT OF ORGANIC SOILS AS INDICATED ON THE CONTRACT PLANS AND AS DESIGNATED BY THE ENGINEER.

6. CONTRACTOR SHALL EXCAVATE, STOCKPILE, AND PLACE THE SOILS IDENTIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. EXCESS STOCKPILED MATERIAL SHALL BE DISPOSED OF, AS DIRECTED BY THE ENGINEER.

7. ALL GRADED SURFACES SHALL BE WITHIN 75 MM (3-IN.) OF THE GRADES AND LIMITS SHOWN ON THE PLANS.

8. ALL EARTH-MOVING EQUIPMENT SHALL BE WASHED PRIOR TO ARRIVAL AT THE SITE TO REMOVE ALL SOIL, ORGANIC MATTER, AND OTHER MATERIAL THAT MAY CONTAIN THE SEEDS AND OTHER PARTS OF UNDESIRABLE PLANT SPECIES. THE REQUIREMENT FOR EQUIPMENT WASHING SHALL BE RESTRICTED TO WORK WITHIN THE WETLAND CREATION AREAS AS WELL AS TOPSOIL DONOR AREAS.

9. EARTH-MOVING EQUIPMENT SHALL BE WASHED OUTSIDE THE WETLAND CREATION AND/OR TOPSOIL DONOR AREAS USING A HIGH-PRESSURE WATER HOSE. WATER PRESSURE SHALL BE SUFFICIENT TO REMOVE ALL SOIL, ORGANIC AND OTHER UNSUITABLE MATERIAL THAT MAY CONTAIN UNDESIRABLE PLANT SEEDS AND OTHER PLANT PARTS.

10. ALL EARTH-MOVING EQUIPMENT SHALL BE INSPECTED BY THE ENGINEER PRIOR TO USE IN THE WETLAND CREATION/TOPSOIL DONOR AREAS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE ENGINEER SHALL REJECT ANY EARTH-MOVING EQUIPMENT THAT APPEARS TO CONTAIN SOIL AND/OR PLANT MATERIAL OF UNKNOWN OR UNDESIRABLE ORIGIN, UNTIL SUCH EQUIPMENT HAS BEEN PROPERLY WASHED AND RE-INSPECTED BY THE ENGINEER.

CONTROL OF INVASIVE SPECIES

1. PRIOR TO CONSTRUCTION, A VISUAL RECHECK OF WETLAND A WILL BE MADE BY A WETLAND SPECIALIST TO DETERMINE IF ANY INVASIVE SPECIES OCCUR IN THE EXISTING WETLAND. IF INVASIVE SPECIES ARE ENCOUNTERED, CARE WILL BE TAKEN DURING CONSTRUCTION TO LIMIT THE POTENTIAL SPREAD OF SEED, ROOTS, OR TOPSOIL CONTAINING THE INVASIVE SPECIES INTO THE MITIGATION WETLAND.

2. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL REQUIREMENTS TO PREVENT THE SPREAD OF ANY INVASIVE PLANT SPECIES. SPECIFICALLY, THE CONTRACTOR SHALL ACTIVELY WORK TO PREVENT THE SPREAD OF PHRAGMITES AUSTRALIS (COMMON REED), LYTHRUM SALICARIA (PURPLE LOOSESTRIFE), POLYGONUM CUSPIDATUM (JAPANESE KNOTWEED) AND ANY OTHER NOXIOUS OR INVASIVE PLANTS IDENTIFIED.

3. SUCH ACTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO THE CLEANING OF ALL EQUIPMENT SUSPECTED OF CONTAINING THE ROOTS, SEEDS, OR OTHER VIABLE PARTS OF THE INVASIVE PLANT SPECIES; SUCH EQUIPMENT MIGHT INCLUDE EXCAVATORS AND TRUCKS USED FOR TRANSPORTATION AND MOVEMENT OF EXCAVATED SOIL OR TOPSOIL, STONE, ORGANIC MATTER, TREES, SHRUBS OR OTHER SIMILAR MATERIAL.

4. CLEANING SHALL BE ACCOMPLISHED PRIOR TO EQUIPMENT ARRIVING AT THE WORK SITE AND BEFORE EACH PIECE OF EQUIPMENT LEAVES THE SITE. THIS EQUIPMENT CLEANING WILL HELP TO PREVENT THE PROPAGATION AND MOVEMENT OF INVASIVE SPECIES FROM ONE PROJECT SITE TO ANOTHER. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE NO INVASIVE SPECIES CURRENTLY EXIST AND THE HABITAT IS PRISTINE REGULATED WETLAND.

5. SPOIL AREAS SHALL BE APPROVED BY THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE), AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) FOR THE DISPOSAL OF SOIL SUSPECTED OF INCLUDING INVASIVE SPECIES.

UPLAND PLANTING

1. NO PLANTING SHALL BE DONE WHEN THE SOIL IS FROZEN OR OTHERWISE IN AN UNSATISFACTORY CONDITION FOR WORKING AS DETERMINED BY THE ENGINEER.

2. THE DEPTH OF ALL PLANT PITS SHALL ALLOW THE ROOT BALL TO SIT ON UNDISTURBED SUBGRADE UNLESS OTHERWISE SPECIFIED.

3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER NONMOVABLE OBSTRUCTIONS. WHERE NONMOVABLE OBSTRUCTIONS ARE ENCOUNTERED, THE PLANT PITS SHALL BE RELOCATED, AS DIRECTED BY THE ENGINEER.

4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST TWO FULL WORKING DAYS BEFORE INTENDED TRANSPLANTING OF PLANT MATERIALS TO THE SITE. THE CONTRACTOR SHALL FURNISH LEGIBLE COPIES OF THE CERTIFICATES OF INSPECTION OF SEED MATERIALS AND A COPY OF THE INVOICE FOR EACH SHIPMENT SHOWING POINT OF ORIGIN, QUANTITIES, AND KINDS OF MATERIALS SUPPLIED. SEED WHICH FAILS TO MEET THE SPECIFICATIONS, AS DETERMINED BY THE ENGINEER, SHALL BE REJECTED AND ALL REJECTED SEED SHALL BE PROMPTLY REMOVED FROM THE PROJECT SITE.

5. ALL PLANTS NOT TRANSPLANTED IMMEDIATELY SHALL BE PROPERLY PROTECTED FROM DAMAGE AND DRYING OUT. SUCH PROTECTION SHALL INCLUDE THE TIME WHEN THE PLANTS ARE BEING HANDLED OR IN TEMPORARY STORAGE. BARE ROOT PLANTS NOT TRANSPLANTED IMMEDIATELY SHALL BE PUDDLED AND HEELED IN. THE BUNDLES OF HEELED IN PLANTS SHALL BE OPENED AND THE PLANTS SHALL BE SPACED SEPARATELY. THE ROOTS OF THE PLANTS SHALL HAVE THEIR EARTH BALLS PROTECTED BY EARTH, MULCH OR STRAW, OR THEY MAY BE HEELED IN. ALL PLANTS NOT TRANSPLANTED IMMEDIATELY SHALL BE WATERED AS APPROVED BY THE ENGINEER.

6. LOCATIONS FOR PLANTS AND OUTLINES OF AREAS TO BE PLANTED SHALL BE STAKED OR MARKED OUT ON THE GROUND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER BEFORE ANY PLANT PITS OR PLANT BEDS ARE DUG.

7. THE MINIMUM PLANT PIT DIAMETER SHALL BE 2 TIMES THE DIAMETER OF THE ROOT SPREAD OR ROOT BALLS OF THE PLANTS TO BE PLANTED IN THEM OR AS DIRECTED BY THE ENGINEER.

8. ALL PLANTINGS SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AND DIRECTIONS OF THE ENGINEER, AND IN ACCORDANCE WITH THE PAY ITEMS SHOWN ON DRAWING NO. LGP-1.

WETLAND SOIL PREPARATION

(SHALL COMMENCE FOLLOWING SUCCESSFUL COMPLETION OF EROSION CONTROL WORK FOR SITE CONSTRUCTION)

1. ESTABLISH OR RE-ESTABLISH PROPOSED FINISHED GRADES WITHIN ALL POND AND WETLAND AREAS.

2. TOPSOIL PLACED IN THE WETLAND AREA SHALL HAVE AN ORGANIC CONTENT NOT LESS THAN 10% NOR GREATER THAN 20%.

3. TOPSOIL SHALL BE DISTRIBUTED IN THE WETLAND IMMEDIATELY PRIOR TO FINAL GRADING AND SEEDING.

4. AFTER FINAL GRADING IS COMPLETED, STABILIZE BY HYDROSEEDING WITH NATIVE/ NATURAL WILDFLOWER SEED MIX (SEE SEED MIX TABLES AND ZONE LEGEND).

5. WETLAND AND UPLAND SOIL SHALL CONFORM TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) REQUIREMENTS FOR TOPSOIL CONSISTENT WITH THE REQUIREMENTS 613.01 01, WETLAND TOPSOIL.

6. THE SUBSOIL WITHIN THE AREAS TO BE COVERED BY TOPSOIL SHALL BE GRADED SO THAT THE COMPLETED WORK AFTER TOPSOIL IS PLACED SHALL CONFORM TO THE SPECIFIED LINES AND GRADES.

7. WHERE SPECIFIED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL SCARIFY OR TILL THE SURFACE OF THE SUBSOIL BEFORE THE TOPSOIL IS PLACED TO PERMIT BONDING THE TOPSOIL WITH THE SUBSOIL. TILLAGE BY DISKING, HARROWING, RAKING OR OTHER APPROVED METHODS SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT DEPRESSIONS AND RIDGES FORMED BY TILLAGE SHALL BE PARALLEL TO THE CONTOURS.

8. TOPSOIL IN AN UNWORKABLE CONDITION DUE TO EXCESSIVE MOISTURE, FROST OR OTHER CONDITIONS SHALL NOT BE PLACED UNTIL IT IS SUITABLE FOR SPREADING.

9. TOPSOIL SHALL BE PLACED ON THE DESIGNATED AREA AND SPREAD TO A THICKNESS OF 300 MM (12-INCHES). AFTER THE TOPSOIL IS SPREAD, ALL LARGE STIFF CLODS, ROCKS, ROOTS OR OTHER FOREIGN MATTER SHALL BE CLEARED AND DISPOSED OF BY THE CONTRACTOR AS APPROVED SO THAT THE FINISHED SURFACE WILL BE ACCEPTABLE FOR SUBSEQUENT WORK SUCH AS SEEDING, MULCHING OR PLANTING.

10. SEPARATE UPPER 12-IN. OF MUCK TOPSOIL FROM DEEPER MUCK AND STOCKPILE SEPARATELY. UPPER TOPSOIL WILL BE USED IN MITIGATION AREAS. COMPRESS PLACED SUBSOIL W/BUCKET OR TRUCKS.

11. CHIP THE TOPS AND STEMS OF SHRUBS IN THE IMPACT AREA AND LEAVE REMAINS ON GROUND. CUT TREES AND REMOVE STUMPS.

12. SPREAD WETLAND TOPSOIL 6-IN. DEEP LEAVING HUMMOCKS AND DEPRESSIONS 6-8 IN. HIGH/DEEP.

13. THE SOILS PLACED IN THE MITIGATION AREA WILL BE POPULATED WITH ROOT CUTTINGS FROM THE AREA OF WETLAND A EXCAVATION AND SEEDED WITH THE WETLAND SEED MIXTURE APPROVED BY THE ADIRONDACK PARK AGENCY (APA) • ITEM 610.02030106. THE SEEDING WILL BE CONDUCTED IN ACCORDANCE WITH THE SUPPLIER•S RECOMMENDATIONS.

WETLAND PLANT PREPARATION

1. ALLOW POND TO FILL TO NORMAL POOL ELEVATION. PROVIDE STANDING TIME OF SIX TO NINE MONTHS (OR UNTIL NEXT PLANTING SEASON).

2. DURING AND AFTER STANDING TIME, NOTE ANY DEPARTURES FROM DESIGNED DEPTH AND PLANTING ZONES.

3. AFTER STANDING TIME, PRIOR TO INITIAL PLANTING, SURVEY AND STAKE VERTICAL ELEVATIONS OF WETLAND FACILITY TO NEAREST INCH, DELINEATING PLANTING ZONES AS INDICATED ON THE PLAN AND IN THE PLANTING SCHEDULE. ADJUST LOCATIONS TO CORRESPOND WITH DEPTH ZONES AS SURVEYED.

WETLAND PLANTING

1. THE WETLAND POND SHALL BE FULLY DRAINED, USING PUMPING AS NEEDED AT LEAST THREE DAYS PRIOR TO PLANTING.

2. SEED SHALL BE APPLIED ACCORDING TO SUPPLIER'S INSTRUCTIONS AT THE RATES INDICATED IN THE PLANTING SCHEDULE OR AS RECOMMENDED BY THE SUPPLIER. SEED PRODUCTS AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL.

4. BEGIN REFILLING OF WETLAND PONDS SHORTLY AFTER SEED PLANTINGS GERMINATE AND GROW 3-IN. TO 6-IN. TALL.

WETLAND SEEDING NOTES

1. THE OPTIMUM TIME FOR SEEDING IS BETWEEN MAY 1ST AND JUNE 15TH OR BETWEEN AUGUST 15TH AND OCTOBER 1ST AS WEATHER PERMITS. MID SUMMER SEEDING DURING DRY PERIODS SHOULD BE AVOIDED UNLESS WATERING IS PROVIDED. IF WEATHER CONDITIONS TEMPORARILY PROHIBIT SEEDING, PROVIDE STRAW (OR HAY) MULCH AND ANCHORING AT THE RATE SPECIFIED FOR SEED MIX A UNTIL PROPER SEEDING TECHNIQUES CAN BE IMPLEMENTED.

2. PRIOR TO PERMANENT SEEDING, ADD LIME TO A PH OF 6.0 AND 5-5-10 FERTILIZER AT 14 LBS. PER 1000 SQUARE FEET (OR AS SPECIFIED BY THE MANUFACTURER.)

3. THE WETLAND CROSS-SECTION, INCLUDING THE SHALLOW EXCAVATION BOTTOMS AND SIDE-SLOPES, TO (1-FT.) VERTICALLY AND/OR (1.5-FT.) HORIZONTALLY AS SHOWN ON DWG. WP-1A WILL BE SEEDED WITH WETLAND SEED MIX.

4. THE SEED MIXTURE SHALL BE APPLIED EITHER BY BROADCAST SPREADING OR BY HYRDOSEEDING.

5. A LIGHT APPLICATION OF CELLULOSE-FIBER MULCH WILL BE APPLIED ONLY AT A RATE SUFFICIENT TO SEE WHERE SEED AND/OR MULCH IS APPLIED.

6. SEED DORMANCY WILL BE BROKEN, PRIOR TO SEEDING, AS PER THE RECOMMENDATIONS OF THE SEED SUPPLIER.

7. THE SEED SHALL BE APPLIED ON FRESHLY DISTURBED SOIL, AND PLACED IMMEDIATELY AFTER FINAL GRADING.

8. IN LIEU OF THE CUSTOM MIXES SPECIFIED IN THE SEED MIX TABLES ON DRAWING NO. WP-1, OBL/FACW PERENNIAL FOOD AND COVER MIX ERNMX-120 AVAILABLE FROM ERNST CONSERVATION SEEDS OR NORTHEAST WETLAND FOREST HERB MIX STCMX-11 FROM NE CONSULTANTS MAY BE USED.

9. THE SPECIES CONTENT OF THE WETLAND SEED MIX SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO PLACEMENT.

10. THE SEED MIX SHALL BE APPLIED AT A RATE OF 1.1 KG PER HECTARE (1.0 LBS. PER ACRE).

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WETLAND MITIGATION AREA NOTES
(SHEET 3 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env_02	ONE	AUGUST 2011	WP-2

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
DRAFTED BY B. PARKER CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		62	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
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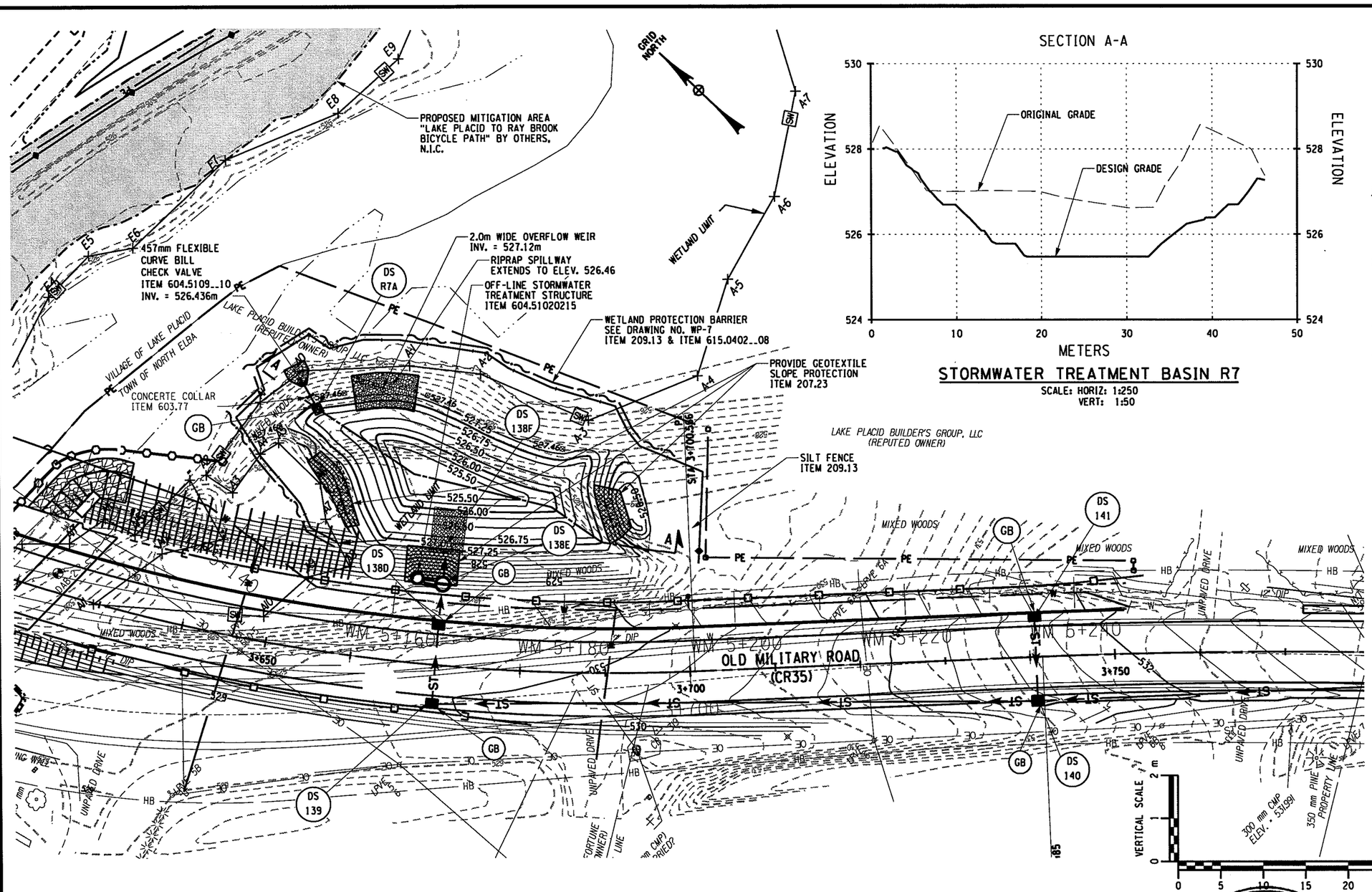
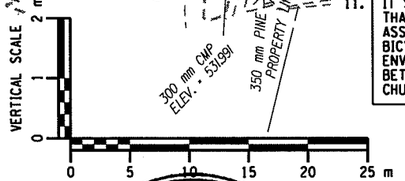


STORMWATER TREATMENT BASIN R7

SCALE: HORIZ: 1:250
VERT: 1:50



POND CONSTRUCTION & MAINTENANCE NOTES:

1. AREAS UNDER EMBANKMENT AND HIGH WATER ELEVATION SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL. ALL OBJECTIONABLE MATERIAL TO BE REMOVED.
2. A CUTOFF TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF EARTH FILL EMBANKMENTS. TRENCH TO BE A MINIMUM 1.2m WIDE AND 0.6m DEEP AND DEWATERED DURING BACKFILLING/COMPACTION OPERATIONS.
3. EMBANKMENT FILL MATERIAL FOR THE POND SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
4. OUTLET STRUCTURE SHALL BE PLACED AS SHOWN ON DRAWING WP-6. FILL MATERIAL AROUND BARREL SHALL BE COMPACTED UNDER AND AROUND THE PIPE TO THE SAME DENSITY AS THE EMBANKMENT. ALL JOINTS TO BE WATERTIGHT.
5. EMERGENCY SPILLWAY SHALL BE INSTALLED IN UNDISTURBED GROUND. IF SPILLWAY IS TO BE CONSTRUCTED IN DISTURBED SOIL, IT IS TO BE LINED WITH FILTER CLOTH, JUTE MAT OR APPROVED EQUAL. LINER TO BE PINNED AND STRETCHED PAST THE SPILLWAY TO A SUFFICIENT LENGTH TO ELIMINATE UNDERPINNING.
6. STABILIZE EMBANKMENT AND EMERGENCY SPILLWAY PER THE PLANTING SPECIFICATIONS IN THESE PLANS. EMBANKMENT TO BE SEEDED WITHIN 7-DAYS OF OBTAINING FINAL GRADE.
7. ALL DAMAGES CAUSED BY SOIL EROSION AND CONSTRUCTION EQUIPMENT TO THE EMBANKMENT SHALL BE REPAIRED BEFORE THE END OF EACH WORKING DAY.
8. TEMPORARY SEDIMENT BASIN DEWATERING DEVICE AND POND BOTTOM SHALL HAVE SEDIMENT REMOVED WHEN THE SEDIMENT DEPTH EQUALS HALF THE HEIGHT OF THE OUTLET STRUCTURE. SEDIMENT TO BE DISPOSED OF IN ACCORDANCE WITH THE SWPPP.
9. TEMPORARY STRUCTURES TO BE REMOVED AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED. THE RESULTING SEDIMENT DEPOSITS TO BE REMOVED AND/OR LEVELED TO OBTAIN THE DESIGN POND VOLUME. ANY DISTURBED AREA WITHIN THE POND TO BE SEEDED IMMEDIATELY AFTER FINAL GRADING.
10. OWNER IS RESPONSIBLE FOR POND MAINTENANCE AFTER FINAL CONSTRUCTION SEQUENCES ARE COMPLETED IN ACCORDANCE WITH THE SWPPP.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.

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LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STO = STONE CHECK DAM
- = WETLAND PROTECTION BARRIER ZONE
- = TEMPORARY SILTATION CONTROL FENCE

STORMWATER TREATMENT BASIN R7

SCALE: 1:250
CONTOUR INTERVAL = 0.25m

NOTE:

1. SEE DRAWING NOS. WP-6 AND WP-7 FOR POND-RELATED DRAINAGE STRUCTURE DETAILS.
2. FOR ROADWAY CONSTRUCTION DETAILS, REFER TO DRAWINGS NOS. GP-11, GP-12, GP-12A, AND GP-13.

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SIGNATURE DATE

STORMWATER QUALITY
(SHEET 4 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env_03	ONE	AUGUST 2011	WP-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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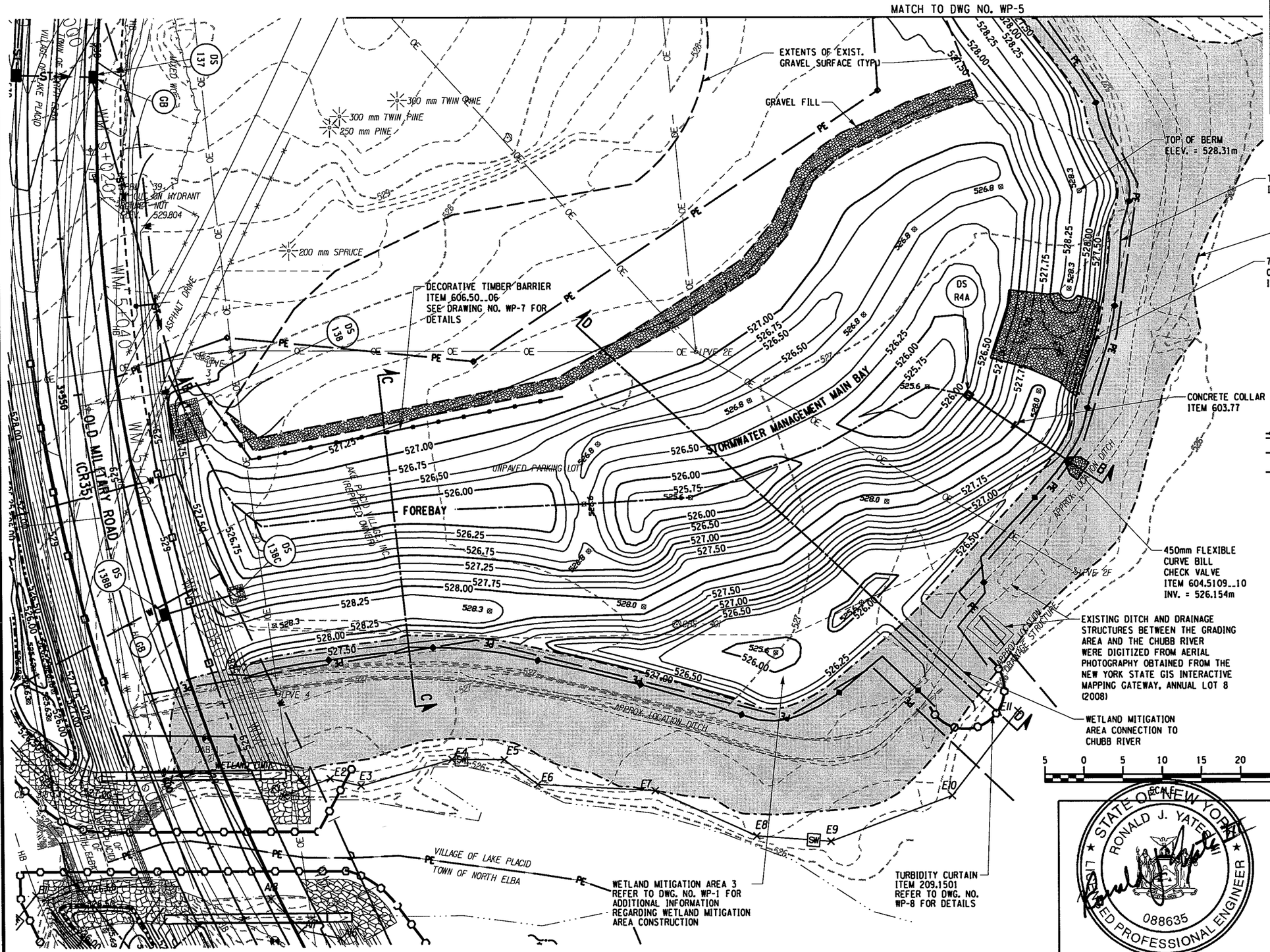
DATE/TIME = AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		63	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STO = STONE CHECK DAM
- = WETLAND PROTECTION BARRIER ZONE
- = TEMPORARY SILTATION CONTROL FENCE
- = SWALE

NOTE:

1. SEE DRAWING NO. WP-3 FOR POND CONSTRICTION AND MAINTENANCE NOTES.
2. SEE DRAWING NO. WP-5 FOR POND R4 SECTIONS B-B, C-C, AND D-D.
3. SEE DRAWING NOS. WP-6 AND WP-7 FOR POND-RELATED DRAINAGE STRUCTURE DETAILS.
4. CONTOURS OF NORTHEAST PORTION OF POND BASED ON MAPPING DONE BY EDEN ENVIRONMENTAL, LLC.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.
6. FOR ROADWAY CONSTRUCTION DETAILS, REFER TO DRAWINGS NOS. GP-11, GP-12, GP-12A, AND GP-13.

5 0 5 10 15 20 25 m
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

STATE OF NEW YORK
RONALD J. YATES
088635
LICENSED PROFESSIONAL ENGINEER

AS BUILT REVISIONS

SIGNATURE DATE

STORMWATER TREATMENT BASIN R4

SCALE: 1:250
CONTOUR INTERVAL = 0.25m

STORMWATER QUALITY (SHEET 5 OF 10)

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env_04	ONE	AUGUST 2011	WP-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		64	205

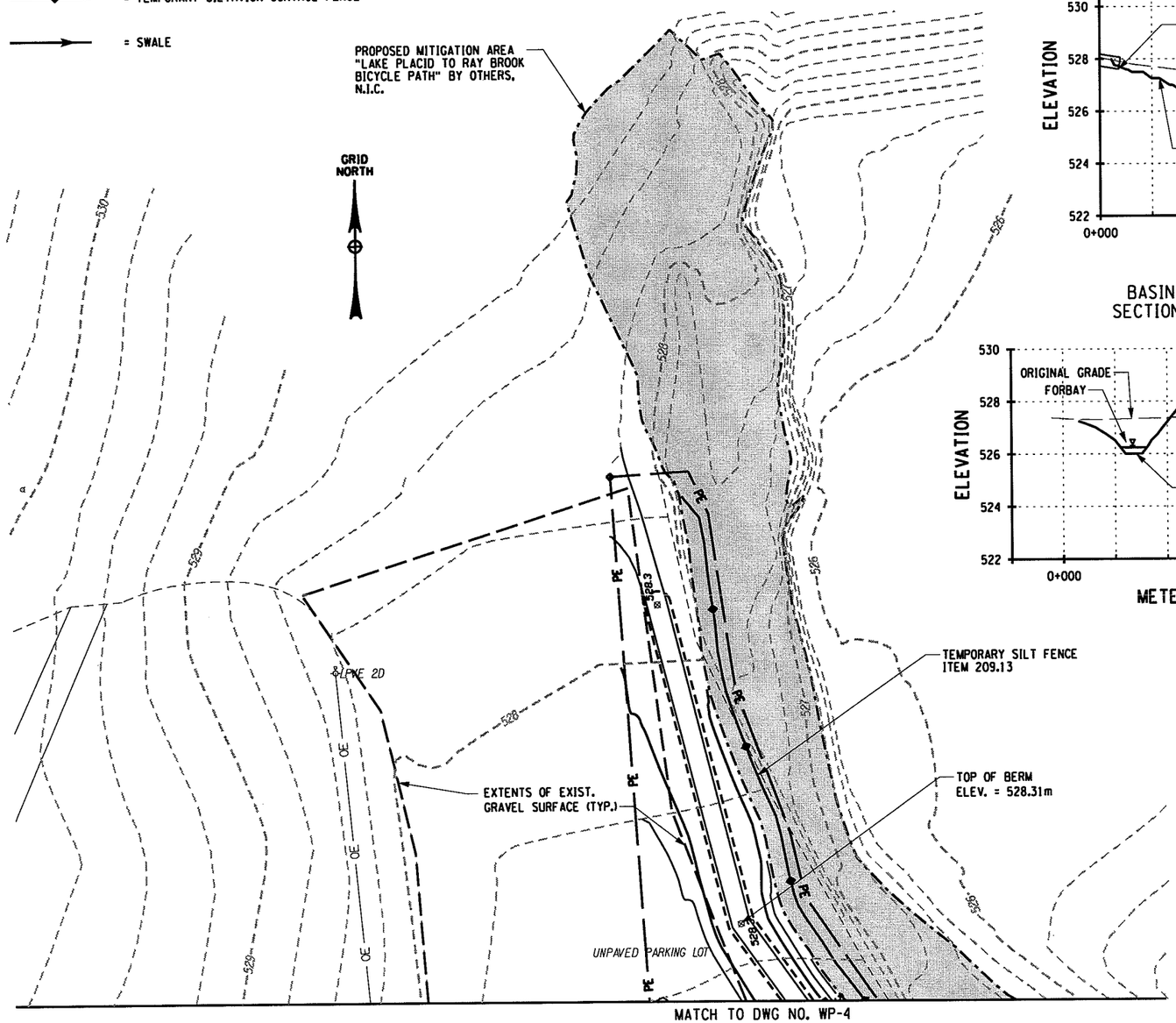
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STO = STONE CHECK DAM
- = WETLAND PROTECTION BARRIER ZONE
- = TEMPORARY SILTATION CONTROL FENCE
- = SWALE

NOTE:

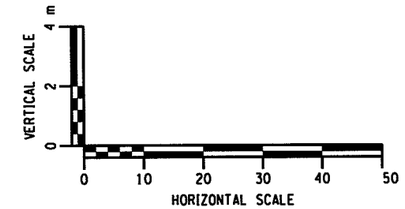
1. SEE DRAWING NO. WP-3 FOR POND CONSTRICTION AND MAINTENANCE NOTES.
2. SEE DRAWING NOS. WP-6 AND WP-7 FOR POND-RELATED DRAINAGE STRUCTURE DETAILS.
3. CONTOURS OF NORTHEAST PORTION OF POND BASED ON MAPPING DONE BY EDEN ENVIRONMENTAL, LLC.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT CONSTRUCTS THE WETLAND MITIGATION AREA ASSOCIATED WITH THE "LAKE PLACID TO RAY BROOK BICYCLE PATH" AS PREPARED BY CEDAR EDEN ENVIRONMENTAL, LLC TO MAINTAIN THE CONNECTION BETWEEN WETLAND MITIGATION AREA #3 AND THE CHUBB RIVER AS SHOWN ON THESE PLANS.
5. FOR ROADWAY CONSTRUCTION DETAILS, REFER TO DRAWINGS NOS. GP-11, GP-12, GP-12A, AND GP-13.



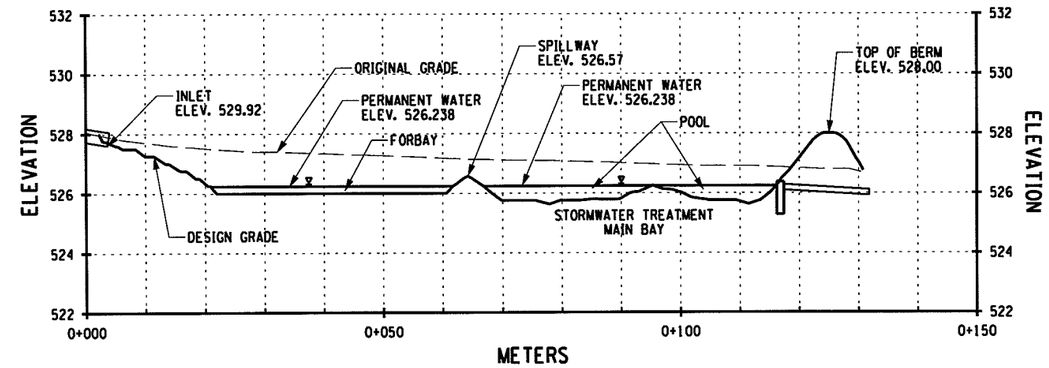
5 0 5 10 15 20 25 m
SCALE

STORMWATER TREATMENT BASIN R4

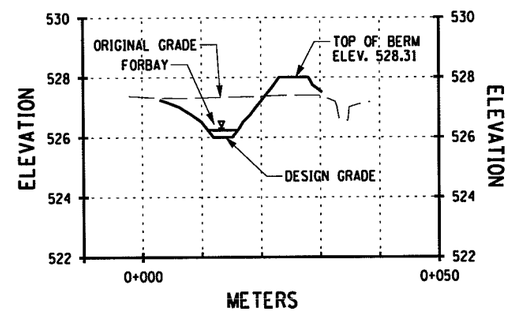
SCALE: 1:250
CONTOUR INTERVAL = 0.25m



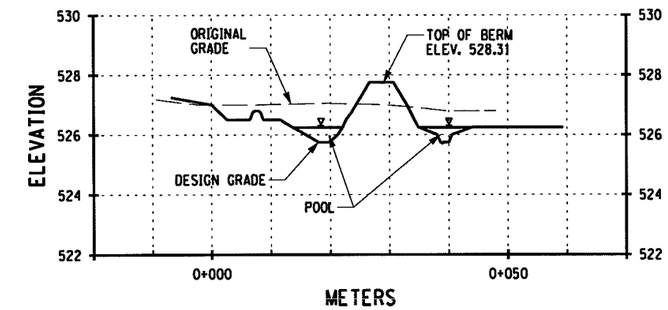
BASIN R4
SECTION B-B



BASIN R4
SECTION C-C



BASIN R4
SECTION D-D



STORMWATER TREATMENT BASIN R4

SCALE: HORIZ: 1:500
VERT: 1:100

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

STATE OF NEW YORK
RONALD J. YATES III
088635
LICENSED PROFESSIONAL ENGINEER

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

STORMWATER QUALITY
(SHEET 6 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

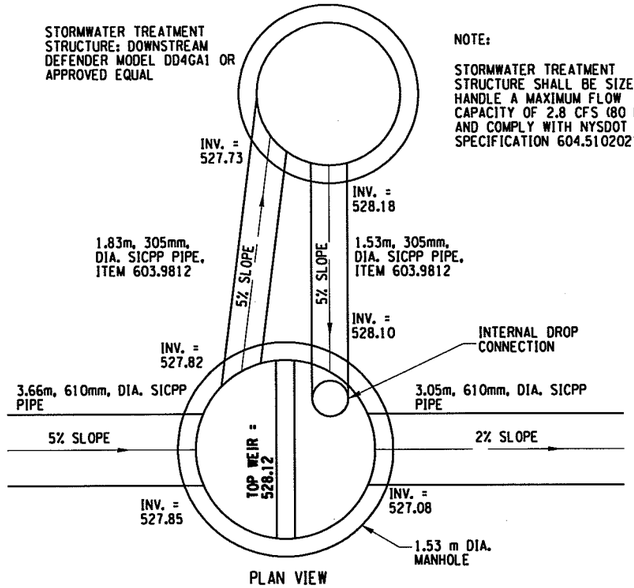
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_env_05	ONE	AUGUST 2011	WP-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		65	205

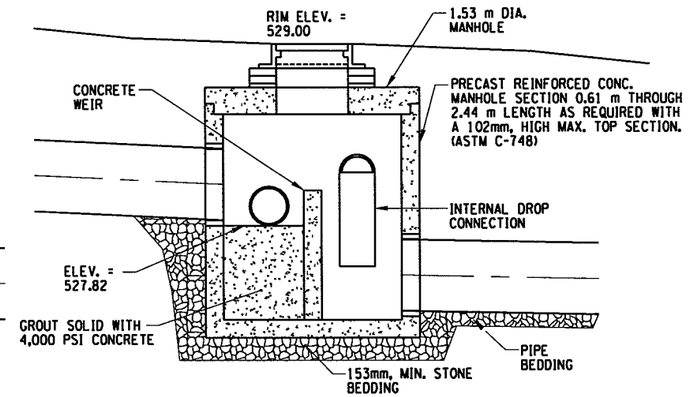
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW

NOTE:

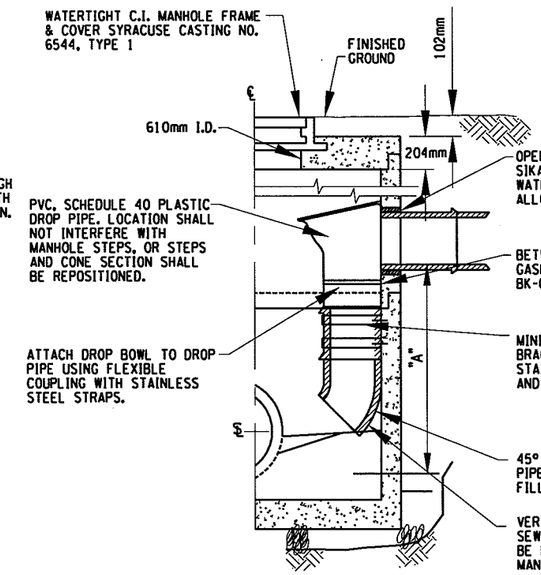
STORMWATER TREATMENT STRUCTURE SHALL BE SIZED TO HANDLE A MAXIMUM FLOW CAPACITY OF 2.8 CFS (80 L/m³) AND COMPLY WITH NYSDOT SPECIFICATION 604.51020215.



SECTION VIEW

STORMWATER TREATMENT STRUCTURE
ITEM 604.51020215

NO SCALE



OPENING SHALL BE CORED & FILLED WITH EPOXY MORTAR SIKADUR 33 BY SIKE OR FLEXOLITH GEL BY DURAL TO MAKE WATERTIGHT CONNECTION. PRECAST OPENINGS ARE ALSO ALLOWED.

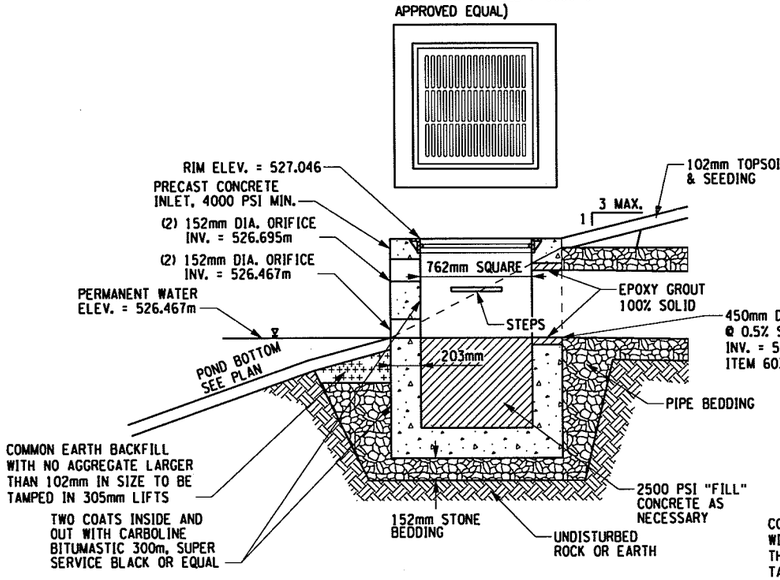
BETWEEN DROP BOWL AND MANHOLE WALL PLACE (PRESS SEAL GASKET CO.; EASY STIK ALL WEATHER TROWELABLE BUTYL, BK-0069-1).

MINIMUM TWO STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS ATTACHED TO MANHOLE WALL WITH TWO (EACH) 10mm STAINLESS STEEL WEDGE ANCHORS, STAINLESS STEEL WASHERS AND NUTS. MAXIMUM SPACING BETWEEN BRACKETS 3m.

45° ABS OR PVC PLASTIC BEND, SOLVENT WELDED TO DROP PIPE. POINT FORM SMOOTH UNIFORM CHANNEL IN CONCRETE FILL.

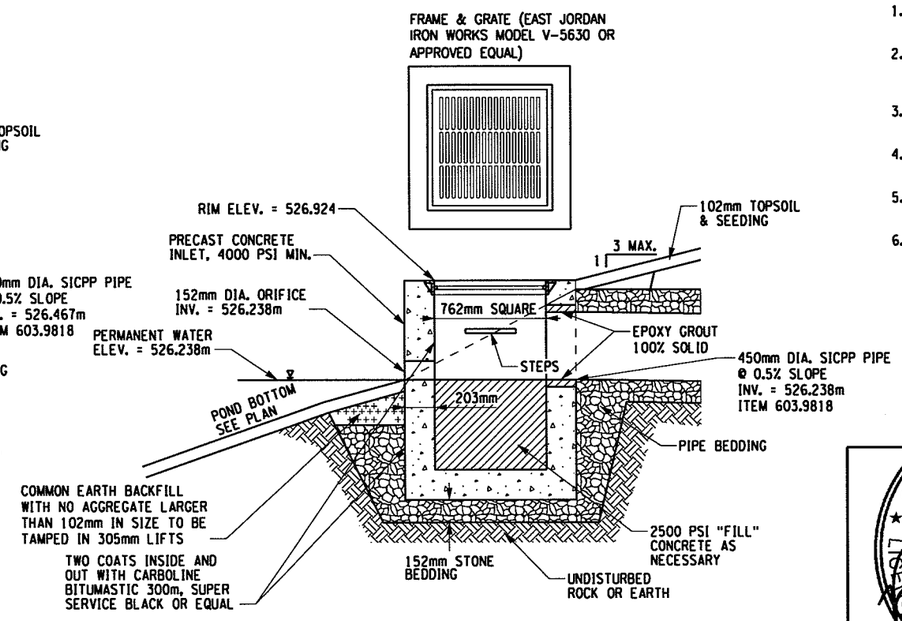
VERTICAL DROP TO BE PVC OR ABS PIPE SAME SIZE AS THE SEWER ENTERING THE MANHOLE (204mm MIN.). LOCATION SHALL BE FLUSH WITH MANHOLE WALL AND NOT INTERFERE WITH MANHOLE STEPS.

INSIDE DROP CONNECTION



POND OUTLET "R7A" DETAIL
ITEM 604.500101

NO SCALE



POND OUTLET "R4A" DETAIL
ITEM 604.500101

NO SCALE

NOTES:

1. CORED OPENINGS IN MANHOLE RISER SECTIONS SHALL BE NOT LESS THAN 6-IN. FROM A RISER JOINT.
2. USE TWO COATS OF SIKAGARD 62 BY SIKA OR DURALKOTE BY DURAL FOR INTERIOR COATING OF BASE TO 12-IN. ABOVE THE HIGHEST PIPE. USE TWO COATS OF KOPPERS SUPER SERVICE BLACK ON OTHER INTERIOR SURFACES AND ALL EXTERIOR SURFACES.
3. ALL RISER JOINTS SHALL BE RUBBER RING GASKETS CONFORMING TO ASTM C443 WITH FLEXIBLE JOINT SEALER ON OUTSIDE OF JOINTS.
4. PIPE CONNECTION TO MANHOLE BASE SHALL BE DURA SEAL OR A-LOK RUBBER GASKETS OR APPROVED EQUAL.
5. PRECAST BASES, RISER SECTIONS & TOP SLABS SHALL CONFORM WITH ASTM C478, W/ HS-20 LOADING DESIGN.
6. CONCRETE FOR STRUCTURE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

STATE OF NEW YORK
RONALD J. YATES
088635
LICENSED PROFESSIONAL ENGINEER

AS BUILT REVISIONS

SIGNATURE DATE

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

STORMWATER QUALITY DETAILS
(SHEET 7 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

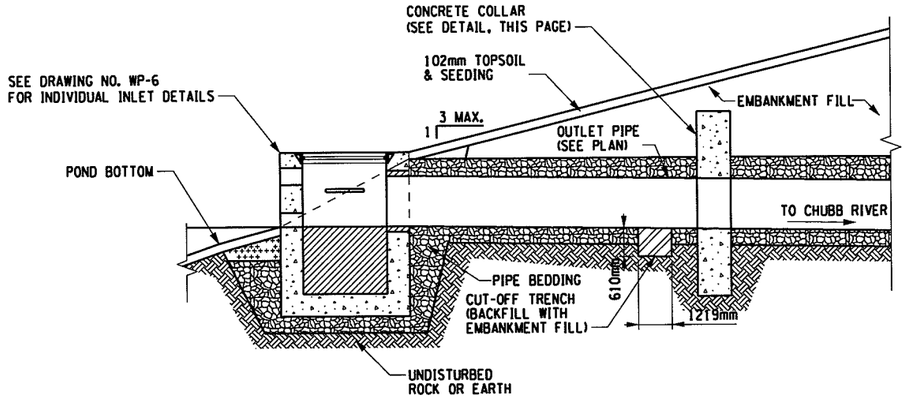
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_det_env_06	ONE	AUGUST 2011	WP-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

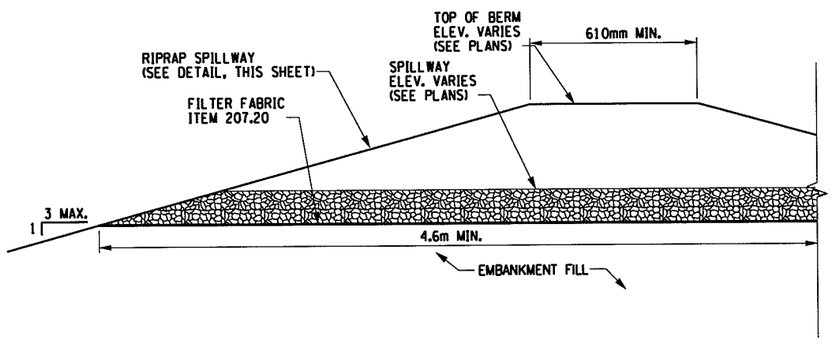
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		66	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



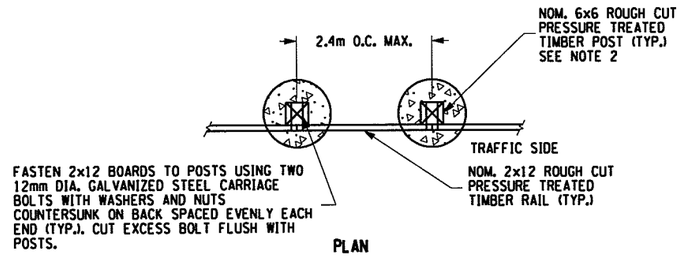
TYPICAL INSTALLATION, ANTI-SEEP COLLAR

NO SCALE

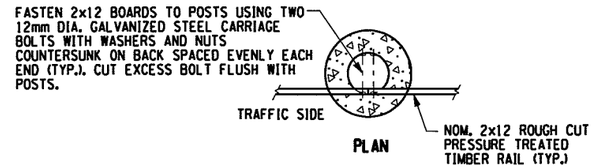


TYPICAL SPILLWAY EMBANKMENT CROSS SECTION

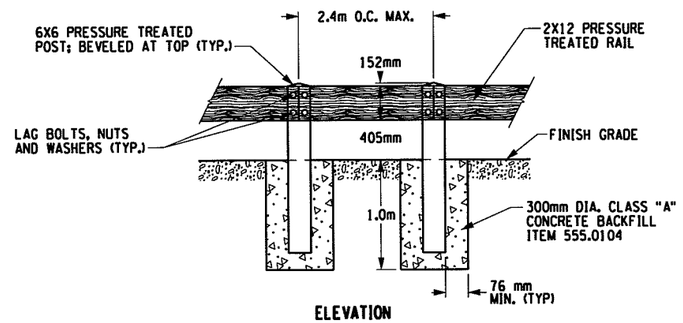
NO SCALE



PLAN

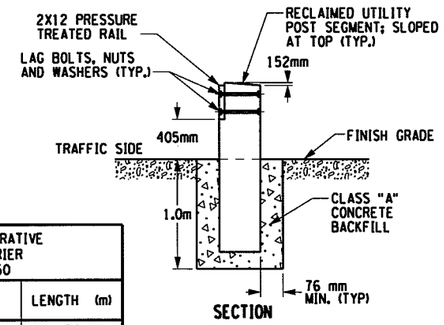


PLAN



ELEVATION

OPTION A
TIMBER POST



SECTION

OPTION B
RECLAIMED UTILITY
POLE POST

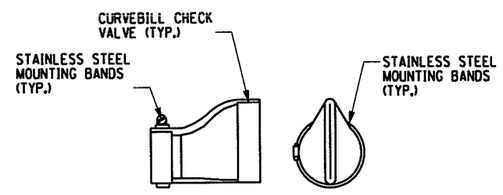
TABLE OF DECORATIVE TIMBER BARRIER ITEM 606.50	
TREATMENT BASIN	LENGTH (m)
R4	54
R7	0
TOTAL	54

NOTES:

1. FINISH SHALL BE A DARK GRAY STAIN; PROVIDE COLOR SAMPLES TO THE ENGINEER AND OBTAIN APPROVAL BEFORE APPLYING.
2. SPACING FOR POSTS SHALL BE 2.4m O.C. MAX. FOR EITHER OPTION.
3. IF OPTION B IS CHOSEN, POSTS SHALL BE IN GOOD CONDITION AND BE OF A CONSISTENT DIAMETER, WITH NO MORE THAN 50mm DIFFERENCE BETWEEN THE LARGEST AND SMALLEST POST DIAMETERS. POLES OR POLE SECTIONS SHALL BE INSPECTED FOR RESIDUAL HARDWARE OR OTHER HAZARDS BEFORE USE.

DECORATIVE TIMBER BARRIER
ITEM 606.50__06

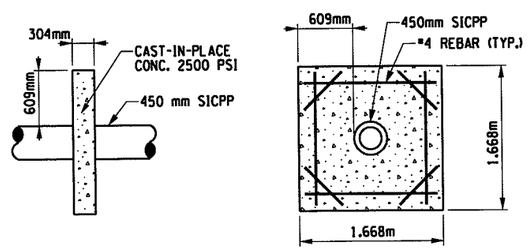
NO SCALE



TIDEFLEX SERIES TF-2
OR APPROVED EQUAL

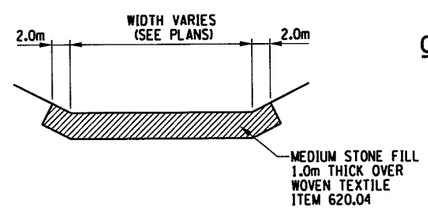
CURVEBILL CHECK VALVE DETAIL
ITEM 604.5109__10

NO SCALE



CONCRETE COLLAR
ITEM 603.77

NO SCALE



PROFILE OF RIPRAP SPILLWAY
ITEM 620.04

NO SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

STATE OF NEW YORK
RONALD J. YATES III
088635
LICENSED PROFESSIONAL ENGINEER

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

STORMWATER QUALITY DETAILS
(SHEET 8 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

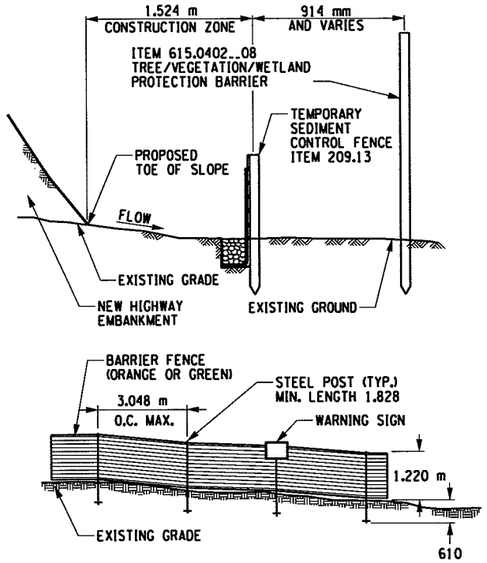
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_det_env_07	ONE	AUGUST 2011	WP-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		67	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTES:

1. SEE SPECIAL SPECIFICATION FOR WARNING SIGN (SIZE, LETTERING, AND MOUNTING INTERVALS.)
2. SEE SPECIAL SPECIFICATION FOR PROPER ATTACHMENT TO POSTS AND OVERLAPPING.
3. LOCATIONS AS SHOWN IN TABLE OR A.O.B.E..

ITEM 209.13 & 615.0402..08
WETLAND PROTECTION BARRIER ZONE
NOT TO SCALE

SYMBOL

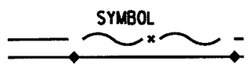
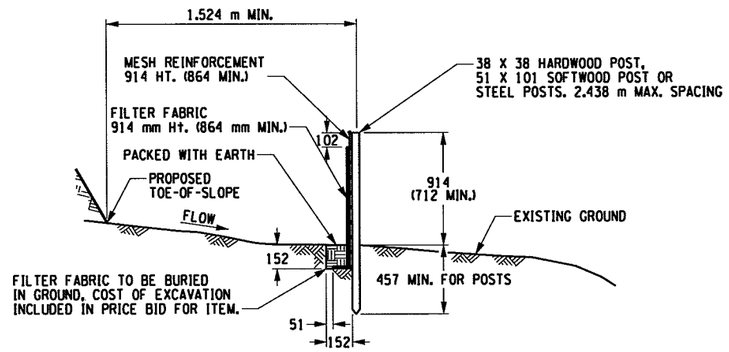


TABLE OF WETLAND PROTECTION BARRIER ZONE ITEM 209.13 & 615.0402..08	
TREATMENT BASIN	LENGTH (m)
R4	28
R7	80
TOTAL	108



ELEVATION

ITEM 209.13
TEMPORARY SEDIMENT CONTROL FENCING
NOT TO SCALE

SYMBOL

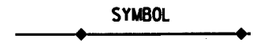
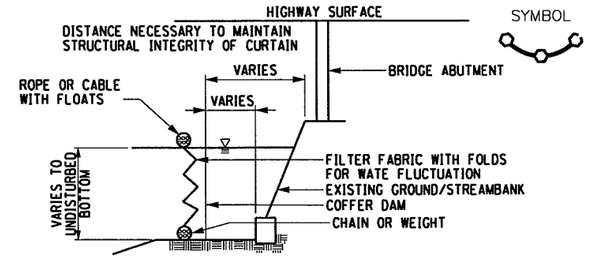
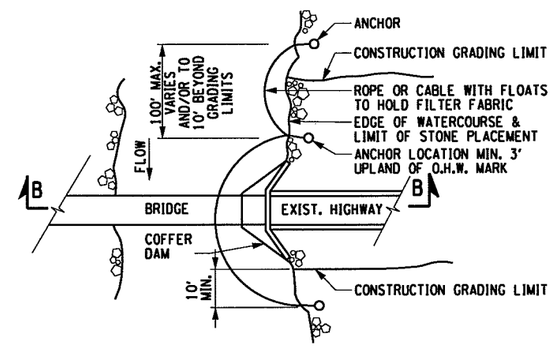


TABLE OF SILT FENCE ITEM 209.13	
TREATMENT BASIN	LENGTH (m)
R4	235
R7	34
TOTAL	269



SYMBOL

SECTION B-B



PLAN VIEW

ITEM 209.1501
TURBIDITY CURTAIN
NOT TO SCALE

TABLE OF TURBIDITY CURTAIN ITEM 209.1501	
WETLAND MITIGATION AREA	LENGTH (m)
1	70
2	75
3	18
TOTAL	163

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

STATE OF NEW YORK
RONALD J. YATES
088635
LICENSED PROFESSIONAL ENGINEER

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

SEDIMENTATION CONTROL DETAILS
(SHEET 9 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

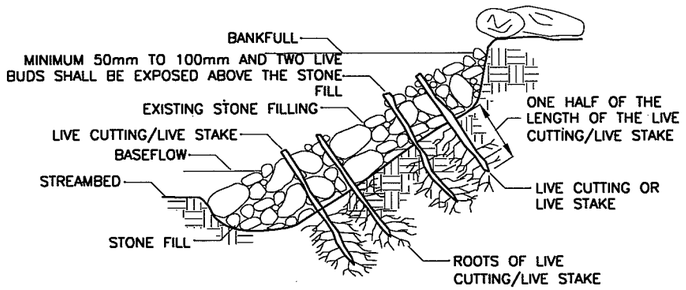
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_det_env_08	ONE	AUGUST 2011	WP-8

FILE NAME =
DATE/TIME = AUGUST 18, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		68	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



LIVE CUTTING/LIVE STAKE JOINT PLANTING CROSS SECTION
NOT TO SCALE

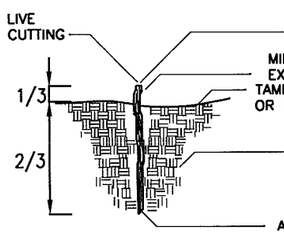
CONSTRUCTION SPECIFICATIONS

1. CARE SHALL BE TAKEN NOT TO DAMAGE THE LIVE CUTTINGS/LIVE STAKES DURING INSTALLATION. THOSE DAMAGED SHALL BE LEFT IN PLACE AND SUPPLEMENTED WITH AN INTACT LIVE CUTTING/LIVE STAKE.
2. THE LENGTHS OF LIVE CUTTINGS/LIVE STAKES DEPENDS UPON THE APPLICATION. THE LENGTH SHALL EXTEND THROUGH THE SURFACE OF THE STONE FILL. AT LEAST HALF THE LENGTH SHALL BE INSERTED IN TO THE SOIL, BELOW THE STONE FILL.
3. A PILOT HOLE IS REQUIRED TO ENSURE THAT THE LIVE CUTTING/LIVE STAKE IS NOT DAMAGED WHEN DRIVEN THROUGH THE STONE FILLING. ACCESS SHALL BE MADE THROUGH THE USE OF A DIBBLE BAR, OR SIMILAR TOOL TO WORK AN OPENING THROUGH THE ROCK LAYER.
4. MINIMUM 51mm TO 102mm AND TWO LIVE BUDS OF THE LIVE CUTTING/LIVE STAKE SHALL BE EXPOSED ABOVE THE STONE FILLING.

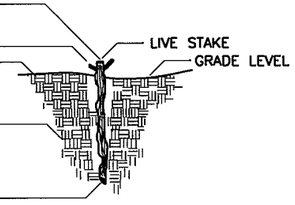
ITEM 616.08____24
LIVE STAKE PLANTING (26 TO 50 mm)
(MINIMUM 4 PER SQUARE METER)

WOODY STEMS
GRAY DOGWOOD – CORNUS RACEMOSA
AMERICAN ELDER – SAMBUCUS CANADENSIS
MEADOWSWEET SPIREA – SPIREA ALBA

SEED
BIRDSFOOT TREFOIL – LOTUS CORNICULATUS
RED CLOVER – TRIFOLIUM PRATENSE
WHITE CLOVER – TRIFOLIUM REPENS



LIVE CUTTING
CROSS SECTION
NOT TO SCALE



LIVE STAKE
CROSS SECTION
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. LIVE CUTTINGS SHALL RANGE FROM 12mm TO 25mm IN DIAMETER AND BE FROM 305mm TO 1.2m IN LENGTH.
2. LIVE STAKES SHALL RANGE FROM 25mm TO 100mm IN DIAMETER AND BE FROM 1.5m TO 1.8m IN LENGTH.
3. SEE CONTRACT DOCUMENTS FOR SPECIES, SIZE, SPACING, LOCATION, AND FINAL DETERMINATION ON USE OF CUTTINGS OR STAKES.
4. LIVE CUTTINGS/LIVE STAKES SHALL BE CUT TO A POINT ON THE BASAL END FOR INSERTION IN THE GROUND.
5. USE A DEAD BLOW HAMMER TO DRIVE STAKES INTO THE GROUND. (HAMMER HEAD FILLED WITH SHOT OR SAND.) A DIBBLE, IRON BAR, OR SIMILAR TOOL SHALL BE USED TO MAKE A PILOT HOLE TO PREVENT DAMAGING THE MATERIAL DURING INSTALLATION.
6. LIVE CUTTINGS SHALL BE INSERTED BY HAND INTO PILOT HOLES.
7. WHEN POSSIBLE, TAMP SOIL AROUND LIVE CUTTING/LIVE STAKES.
8. ANY LIVE CUTTING/LIVE STAKE THAT IS DAMAGED SHALL BE LEFT IN PLACE AND SUPPLEMENTED WITH AN INTACT LIVE CUTTING/LIVE STAKE.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

STATE OF NEW YORK ★ RONALD J. YATES ★ 088635 ★ LICENSED PROFESSIONAL ENGINEER

AS BUILT REVISIONS

SIGNATURE DATE

WETLAND LIVE STAKE PLANTING DETAILS
(SHEET 10 OF 10)

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_det_env_09	ONE	AUGUST 2011	WP-9

FILE NAME =
DATE/TIME = AUGUST 18, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		69	205

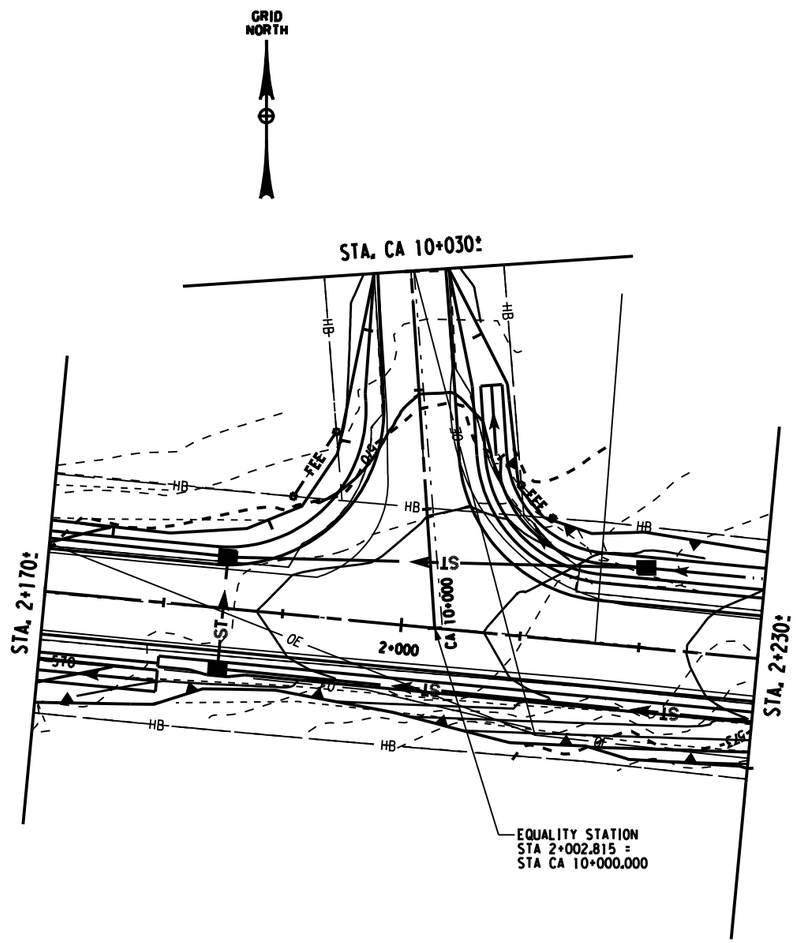
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

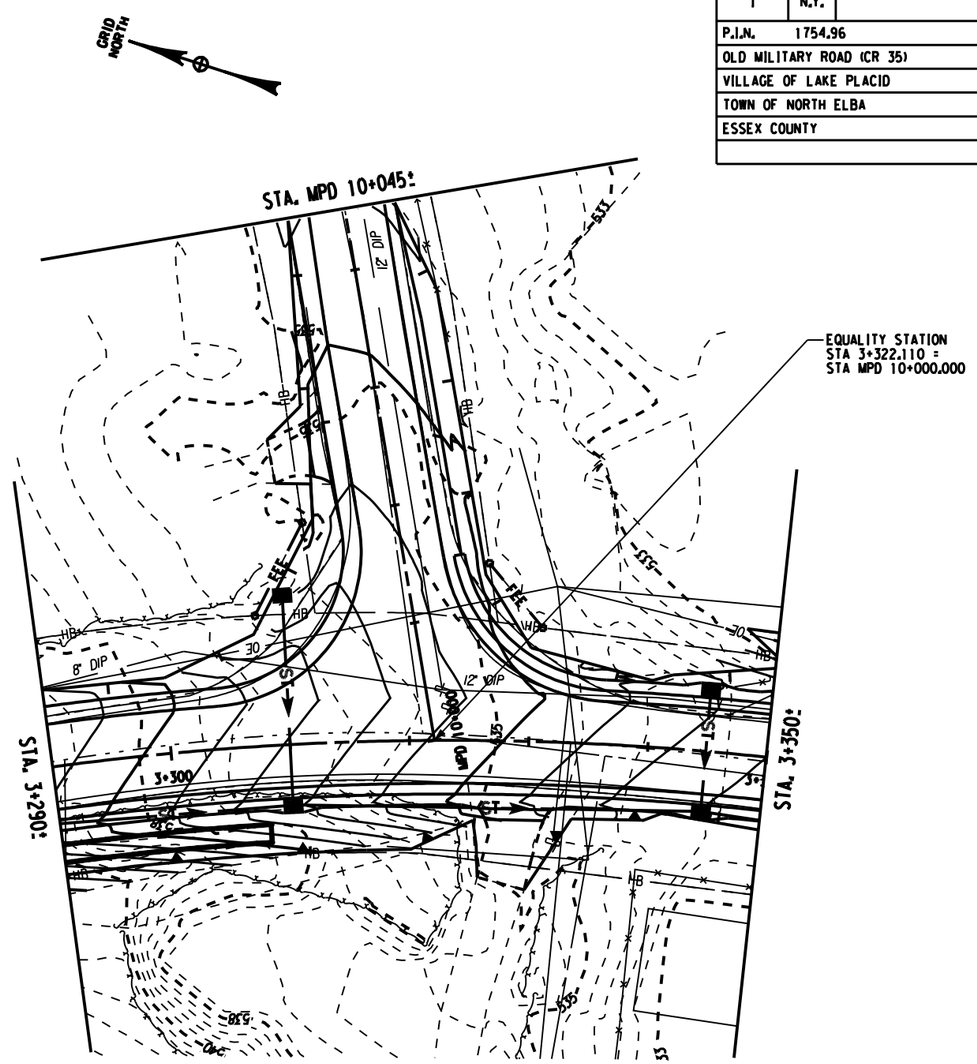
TOWN OF NORTH ELBA

ESSEX COUNTY



PLAN

CAROLYN ROAD INTERSECTION
GRADING PLAN



PLAN

MILL POND DRIVE
INTERSECTION GRADING PLAN

5 0 5 10 15 20 25 m

SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSECTION GRADING PLANS
CAROLYN ROAD &
MILL POND DRIVE

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_GNP_IGP_CAR	ONE	AUGUST 2011	IGP-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		70	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

```
PROJECT NAME: OLD MILITARY RD (CR 35)
DESCRIPTION: OLD MILITARY ROAD REALIGNMENT
HORIZONTAL ALIGNMENT NAME: SPLITTER ISLAND
DESCRIPTION: AVERYVILLE ROAD SPLITTER ISLAND
STYLE: AC.P
INPUT FACTOR: 1.0000
```

	STATION	NORTHING	EASTING
ELEMENT: CIRCULAR			
POB (566)	1+000.00	604159.9979	198237.4260
PI ( )	1+008.56	604151.9647	198234.4708
CC (113)		604165.3852	198222.7865
PT (112)	1+015.66	604158.1427	198226.1071
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DEGREE OF CURVATURE(ARC):		367°16'50.2965"	
LENGTH:		15.6577	
TANGENT:		8.5598	
CHORD:		15.0007	
MIDDLE ORDINATE:		1.9236	
EXTERNAL:		2.1941	
TANGENT DIRECTION:		200°12'00.0634"	
RADIAL DIRECTION:		290°12'00.0634"	
CHORD DIRECTION:		220°57'22.5168"	
RADIAL DIRECTION:		347°42'36.1702"	
TANGENT DIRECTION:		257°42'36.1702"	
ELEMENT: LINEAR			
PT (112)	1+015.66	604158.1427	198226.1071
PC (567)	1+022.93	604148.5950	198219.0020
TANGENT DIRECTION:		257°42'36.1702"	
TANGENT LENGTH:		7.2710	
ELEMENT: CIRCULAR			
PC (567)	1+022.93	604148.5950	198219.0020
PI ( )	1+029.99	604147.0920	198212.1034
CC (568)		604147.0622	198219.1624
PT (569)	1+025.13	604147.1122	198219.1646
RADIUS:		0.7500	
DELTA:		167°52'27.3795" LEFT	
DEGREE OF CURVATURE(ARC):		7639°26'14.1675"	
LENGTH:		2.1975	
TANGENT:		7.0612	
CHORD:		1.4916	
MIDDLE ORDINATE:		0.6708	
EXTERNAL:		6.3518	
TANGENT DIRECTION:		257°42'36.1702"	
RADIAL DIRECTION:		347°42'36.1702"	
CHORD DIRECTION:		173°46'22.4804"	
RADIAL DIRECTION:		179°50'08.7986"	
TANGENT DIRECTION:		89°50'08.7986"	
ELEMENT: LINEAR			
PT (569)	1+025.13	604147.1122	198219.1646
PC (570)	1+049.02	604147.1007	198243.0580
TANGENT DIRECTION:		89°50'08.7986"	
TANGENT LENGTH:		23.8943	
ELEMENT: CIRCULAR			
PC (570)	1+049.02	604147.1007	198243.0580
PI ( )	1+050.29	604147.1843	198244.3284
CC (30)		604233.2083	198242.8120
PCC (571)	1+051.56	604147.2254	198245.5973
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DELTA:		1°41'22.6187" LEFT	
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LENGTH:		2.5390	
TANGENT:		1.2696	
CHORD:		2.5389	
MIDDLE ORDINATE:		0.0094	
EXTERNAL:		0.0094	
TANGENT DIRECTION:		89°50'08.7986"	
RADIAL DIRECTION:		179°50'08.7986"	
CHORD DIRECTION:		88°59'27.4813"	
RADIAL DIRECTION:		178°08'46.1719"	
TANGENT DIRECTION:		88°08'46.1719"	
ELEMENT: CIRCULAR			
PCC (571)	1+051.56	604147.2254	198245.5973
PI ( )	1+054.49	604147.3282	198248.5247
CC (572)		604148.7246	198245.6488
PRC (573)	1+054.85	604149.6402	198246.7369
RADIUS:		1.5000	
DELTA:		125°45'47.5612" LEFT	
DEGREE OF CURVATURE(ARC):		3819°43'07.8026"	
LENGTH:		3.2925	
TANGENT:		2.9209	
CHORD:		2.6702	
MIDDLE ORDINATE:		0.8163	
EXTERNAL:		1.7407	
TANGENT DIRECTION:		88°08'46.1719"	
RADIAL DIRECTION:		178°08'46.1719"	
CHORD DIRECTION:		25°15'52.3913"	
RADIAL DIRECTION:		52°22'58.6107"	
TANGENT DIRECTION:		322°22'58.6107"	
ELEMENT: CIRCULAR			
PRC (573)	1+054.85	604149.6402	198246.7369
PI ( )	1+061.47	604154.0848	198242.6956
CC (117)		604702.0960	198963.6739
PRC (574)	1+068.09	604160.1888	198238.7314
RADIUS:		905.1000	
DELTA:		0°58'17.7205" RIGHT	
DEGREE OF CURVATURE(ARC):		6°19'49.1732"	
LENGTH:		13.2419	
TANGENT:		6.6211	
CHORD:		13.2418	
MIDDLE ORDINATE:		0.0242	
EXTERNAL:		0.0242	
TANGENT DIRECTION:		322°22'58.6107"	
RADIAL DIRECTION:		52°22'58.6107"	
CHORD DIRECTION:		322°48'07.4709"	
RADIAL DIRECTION:		53°13'16.3312"	
TANGENT DIRECTION:		323°13'16.3312"	
ELEMENT: CIRCULAR			
PRC (574)	1+068.09	604160.1888	198238.7314
PI ( )	1+069.48	604161.2948	198237.9848
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POE (566)	1+069.70	604159.9979	198237.4260
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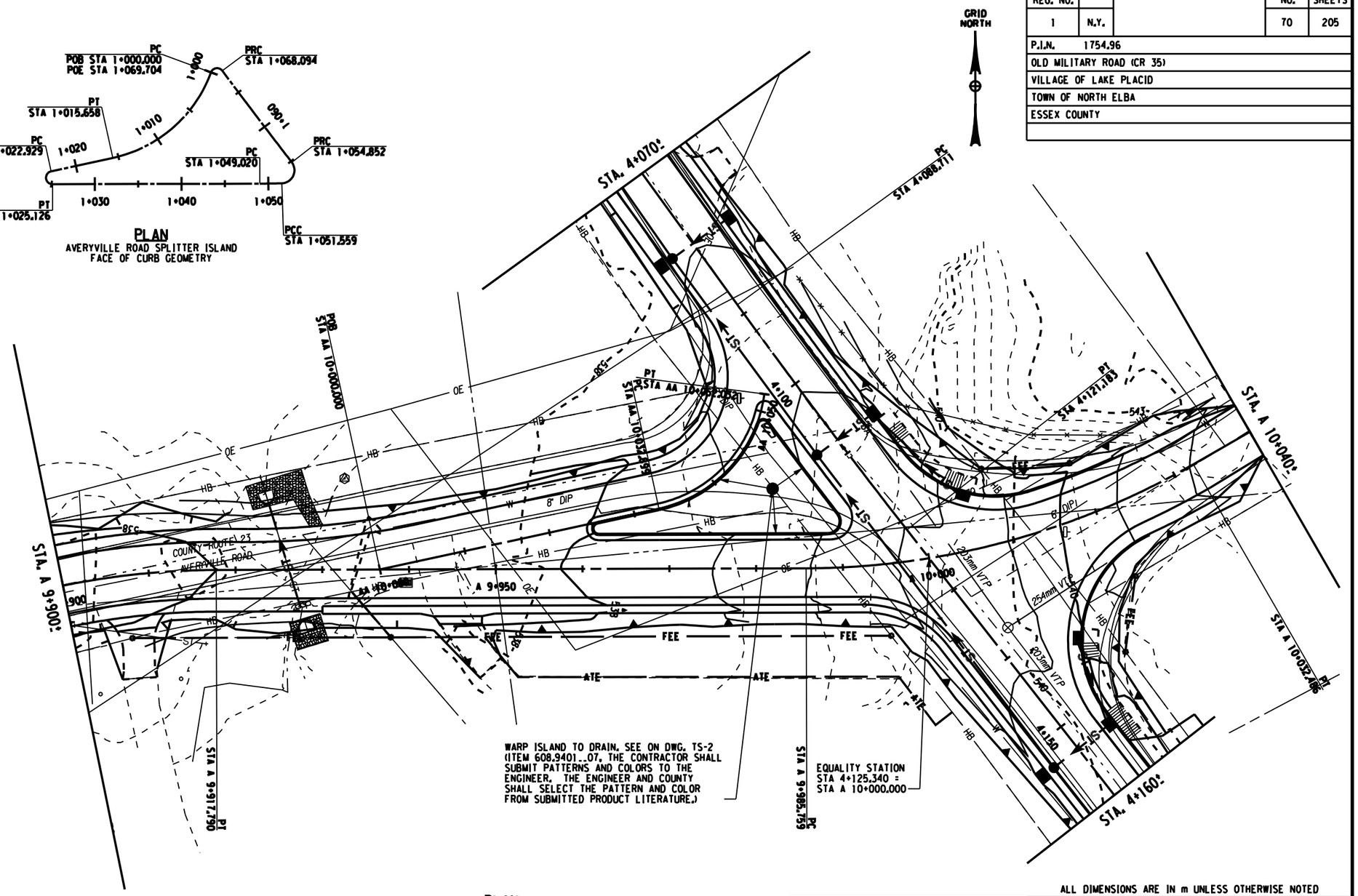
DEGREE OF CURVATURE(ARC):		7639°26'14.1653"	
LENGTH:		1.6103	
TANGENT:		1.3819	
CHORD:		1.3103	
MIDDLE ORDINATE:		0.3922	
EXTERNAL:		0.8223	
TANGENT DIRECTION:		323°13'16.3312"	
RADIAL DIRECTION:		53°13'16.3312"	
CHORD DIRECTION:		261°42'42.5973"	
RADIAL DIRECTION:		290°12'00.0634"	
TANGENT DIRECTION:		200°12'00.0634"	

AREA: 165.0284 SQ.M. 0.0166 HECTARE

PLAN
AVERYVILLE ROAD SPLITTER ISLAND
FACE OF CURB GEOMETRY



WARP ISLAND TO DRAIN. SEE ON DWG. TS-2
(ITEM 608.9401_.07. THE CONTRACTOR SHALL
SUBMIT PATTERNS AND COLORS TO THE
ENGINEER. THE ENGINEER AND COUNTY
SHALL SELECT THE PATTERN AND COLOR
FROM SUBMITTED PRODUCT LITERATURE.)

EQUALITY STATION
STA 4+125.340 =
STA A 10+000.000

PLAN
AVERYVILLE ROAD & STATION STREET
INTERSECTION GRADING PLAN

NOTES:

1. HORIZONTAL AND VERTICAL CONTROL DATA PROVIDED AS SUPPLEMENTAL INFORMATION AVAILABLE TO BIDDERS IN THE PROPOSAL.

5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSECTION GRADING PLANS
AVERYVILLE ROAD &
STATION STREET

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_GNP_IGP_AVERY	ONE	AUGUST 2011	IGP-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		71	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

STORMWATER POLLUTION PREVENTION AND TEMPORARY SOIL EROSION AND SEDIMENT CONTROL - GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL PLANS FOR THIS CONTRACT AT ALL TIMES. WHENEVER SILTATION OR TURBIDITY IS DETECTED IN RECEIVING WATERS, WORK SHALL STOP AND CORRECTIVE MEASURES TAKEN TO STOP THE POLLUTION FROM OCCURRING. ALL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT STABILIZATION MEASURES ARE OBTAINED.

2. ALL SEDIMENT AND EROSION CONTROL WORK REQUIRED BY THE CONTRACT DOCUMENTS WILL BE COMPLETED UNDER THE PROVISIONS OF SECTION 209 - "TEMPORARY SOIL EROSION AND SEDIMENT CONTROL" AND ITEMS IN THE CONTRACT, WITH THE EXCEPTION OF WORK COMPLETED UNDER SEPARATE NON-EROSION PAY ITEMS PROVIDED IN THIS CONTRACT.

3. THE CONTRACTOR'S ATTENTION IS ALSO DIRECTED TO SECTION 107-12 "WATER QUALITY PROTECTION" OF THE SPECIFICATIONS. ANY ACTIVITY OR REVISION TO THE CONTRACT INITIATED BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 107-12 UNLESS OTHERWISE ORDERED BY THE ENGINEER.

4. THE CONTRACTOR SHALL PREPARE A SCHEDULE FOR ACCOMPLISHING TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK IN ACCORDANCE WITH SECTIONS 107-12 AND 209 OF THE SPECIFICATIONS. THE CONSTRAINTS OF SECTION 209 OF THE SPECIFICATIONS SHALL BE REFLECTED IN THE ESTIMATED DATE FOR COMPLETING PERMANENT EROSION AND SEDIMENT CONTROL WORK. PARTICULAR ATTENTION IS DIRECTED TO THE REQUIREMENTS THAT FINAL GRADING AND PERMANENT SEEDING OF DISTURBED AREAS OF THE THE CONTRACT OCCUR PROGRESSIVELY THROUGH THE CONSTRUCTION PERIOD. PERMANENTLY STABILIZE COMPLETED AREAS WHENEVER IT IS REASONABLE TO AS DETERMINED BY THE ENGINEER.

5. THE CONTRACTOR SHALL PERFORM NECESSARY WORK TO ISOLATE CONSTRUCTION WORK AREAS AND ACTIVITIES, STAGING AREAS, PLATFORMS, OR OTHER AREAS TO BE DISTURBED FROM WATER COURSES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS WITH APPROVED TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IN ACCORDANCE WITH ITEM 209.1003M - TEMPORARY SEED AND MULCH.

6. THE CONTRACTOR SHALL CONDUCT WEEKLY INSPECTIONS OF TEMPORARY SEDIMENT AND POLLUTION CONTROL STRUCTURES. SEEDED AND MULCH AREAS, EROSION CONTROL BLANKETS, OR OTHER CONTRACT WORK TO ENSURE THAT IT IS FUNCTIONING AS REQUIRED AND IS IN GOOD CONDITION. THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT OF THIS INSPECTION TO THE ENGINEER, WITHIN 24 HOURS AND, AS DIRECTED BY THE ENGINEER, SHALL MAKE APPROPRIATE CORRECTIONS AND REPLACEMENTS OR PERFORM MAINTENANCE (INCLUDING THE REMOVAL OF ACCUMULATED SILT) BY CLOSE OF BUSINESS ON THE DAY FOLLOWING THE INSPECTION, WHICH IS FRIDAY FOR WEEKLY INSPECTIONS. THE DESIGNATED DAY FOR WEEKLY INSPECTIONS FOLLOW-UP WORK AND REPORTS SHALL BE ADJUSTED APPROPRIATELY TO ACCOMODATE FOR HOLIDAYS.

7. THE CONTRACTOR SHALL MAINTAIN THE EXISTING & PROPOSED DRAINAGE SYSTEM SO THAT IT REMAINS FREE OF SEDIMENT AND DEBRIS DURING THE COURSE OF CONSTRUCTION. COST TO BE INCLUDED UNDER VARIOUS TEMPORARY SOIL EROSION CONTROL ITEMS. NO SEPARATE PAYMENT WILL BE MADE.

8. SOIL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO STARTING THE CLEARING AND GRUBBING OPERATIONS AND EARTHWORK CONSTRUCTION. ALL APPROPRIATE DEVICES SHALL REMAIN IN PLACE UNTIL NEW SLOPES AND EXPOSED EARTHEN SURFACES ARE STABILIZED A.O.B.E. TEMPORARY SOIL EROSION DEVICES MAY BE LEFT IN PLACE AT COMPLETION OF THIS CONTRACT WITH PERMISSION OF THE ENGINEER. ALL OTHER DEVICES SHALL BE REMOVED AND THE DISTURBED AREA RESTORED UNDER SECTION 107-12 THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED IN THE PLANS.

9. ALL STOCKPILES OF ERODIBLE MATERIAL SHALL BE RINGED WITH SILT FENCE, RUNOFF DIVERTED TO AN APPROPRIATE SEDIMENT CONTROL STRUCTURE. STOCKPILES EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED & MULCH ITEM 209.1002M, OR OTHER MEANS OF TEMPORARY STABILIZATION.

10. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF ANY APPLICABLE FEDERAL OR STATE CERTIFICATIONS/PERMITS THAT PERTAIN TO THIS PROJECT.

11. ALL STREAM WORK SHALL BE LIMITED TO WITHIN THE DESIGNATED RIGHT-OF-WAY, OR TEMPORARY EASEMENT WORK AREA LIMITS SHOWN ON THE CONTRACT DOCUMENTS.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND TAKE APPROPRIATE MEASURES TO PREVENT CONTAMINATION OF ANY WATER BODIES BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS OR PAINT, CONCRETE OR LEACHATE, DUST OR ANY OTHER POLLUTION ASSOCIATED WITH THE CONTRACTOR'S OPERATIONS.

13. DURING CONCRETE POURING, NO FRESH CONCRETE LEACHATE, OR WASH WATER SHALL BE ALLOWED TO ENTER INTO ANY WATER BODY. POLLUTED WATER SHALL BE COLLECTED AND TRANSPORTED TO AN OFF-SITE APPROVED WASTE TREATMENT FACILITY OR DISPOSAL SITE, IF NO ON-SITE AREA IS SUITABLE FOR TREATMENT OF WASH WATER AS DETERMINED BY THE ENGINEER.

14. IF EARTHWORK IS PROPOSED ON SLOPES, A SILT FENCE SHALL BE PLACED ALONG A CONTINUOUS CONTOUR BETWEEN THE PROPOSED DISTURBED AREAS AND ANY EXISTING DRAINAGE DITCH, WATER COURSE, IMPOUNDMENT PRIOR TO EARTH EXCAVATION OR DISTURBANCE ACTIVITIES UNLESS OTHERWISE APPROVED BY THE ENGINEER. SILT FENCES SHALL BE MAINTAINED IN GOOD CONDITION UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED WITH TURF OR OTHER EROSION RESISTANT MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS.

15. OTHER EROSION PROTECTION MEASURES OR STRUCTURES MAY BE REQUIRED AS CONDITIONS WARRANT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROTECTION FOR ANY WATER BODY ADJACENT TO OR DOWN GRADIENT FROM THE PROJECT, AND TO PROTECT ADJACENT PROPERTIES FROM DAMAGE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED WITH TURF OR OTHER PERMANENT MEASURES AS CALLED FOR IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPLACE OR REPAIR POLLUTION CONTROL STRUCTURES THAT FAIL AS QUICKLY AS POSSIBLE. THE CONTRACTOR SHALL BE PAID FOR THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS UNDER APPROPRIATE PAYMENT ITEMS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 209 OF THE SPECIFICATIONS. EXCEPT MULCH APPLIED FOR PERMANENT SEEDING SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 610.0203M - ESTABLISHING TURF.

STORMWATER POLLUTION PREVENTION AND TEMPORARY SOIL EROSION AND SEDIMENT CONTROL - GENERAL REQUIREMENTS CONT.

16. IN ADDITION TO THE DETAILS AND SPECIFICATIONS PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REFER TO THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS (NYSDEC) FOR ADDITIONAL INFORMATION REGARDING THE INTENDED PURPOSE, DESIGN CRITERIA, AND MATERIAL SPECIFICATIONS.

17. EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE NYSDOT STANDARD SHEETS.

18. THE CONTRACTOR SHALL GRADE AND TRIM ALL SLOPES AS THE EXCAVATION PROGRESSES AND AT A MINIMUM MULCH ALL FINAL GRADED SLOPES WITHIN TWO DAYS OR AS ORDERED BY THE ENGINEER.

19. THE CONTRACTOR SHALL HAVE A HYDROSEEDER AND/OR MULCHING MACHINE AVAILABLE FOR THE PROJECT AT ALL TIMES.

20. ANY SCHEME PROPOSED BY THE CONTRACTOR TO ACCOMPLISH EROSION PREVENTION AND SEDIMENT CONTROL SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

21. GRAVEL BAGS IF PROVIDED SHALL BE AS DESCRIBED IN SECTION 209-2.09 EXCEPT THAT ONLY GRAVEL FILL IS ACCEPTABLE. GRAVEL FILL SHALL BE FREE OF SILT AND GRAVEL BAGS WILL BE REMOVED IN THEIR ENTIRETY AT THE COMPLETION OF THE PROJECT. NO SAND BAGS WILL BE ALLOWED IN PLACE OF GRAVEL BAGS.

22. THE CONTRACTOR AS PART OF THE WORK TO BE PERFORMED SHALL BE REQUIRED TO MAINTAIN THE EXISTING WATER FLOW IN THE STREAMS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR HIS/HER WRITTEN APPROVAL, PRIOR TO BEGINNING WORK ON THE STRUCTURES, THEIR PLAN FOR MAINTAINING THE WATER FLOW.

23. IN THE EVENT DEWATERING OPERATIONS BECOME NECESSARY, A SEDIMENT TRAP WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS FREE AND CLEAR OF SEDIMENT. THE LOCATION AND DESIGN SHALL BE APPROVED BY THE ENGINEER.

SPDES PHASE II COMPLIANCE

THE PRIMARY GOAL FOR THE CONTROL OF PROJECT EROSION AND SEDIMENT IS RETENTION ON-SITE AT OR ADJACENT THE SOURCE UTILIZING THE FOLLOWING MEASURES AND TECHNIQUES.

1. ALL DISTURBED AREAS WILL BE TEMPORARILY SEEDED IN ACCORDANCE WITH ITEM 209.1003M - TEMPORARY SEED & MULCH.

2. SILT FENCE AND STONE CHECK DAMS WILL BE PLACED AS INDICATED ON THE EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER, ITEM 209.13M, & 209.110102M. NO STRAW OR HAY BALE CHECK DAMS WILL BE PERMITTED.

3. PERMANENT STONE LINED SWALES AND CHECK DAMS WILL BE CONSTRUCTED AS INDICATED ON THE PROJECT PLANS.

4. ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY RE-ENTER ANY BODY OF WATER.

U.S. ARMY CORPS OF ENGINEERS

1. SECTION 404 OF THE CLEAN WATER ACT (33 U.S.C. 1344) PROHIBITS THE DISCHARGE OF DREDGED OR FILL MATERIALS INTO THE WATERS OF THE UNITED STATED WITHOUT A PERMIT FROM THE U.S. ARMY CORPS OF ENGINEERS.

N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SECTION 401 BLANKET WATER QUALITY CERTIFICATION PERMIT, AND THE SPDES GENERAL PERMIT (GP-0-10-001) FOR STORM WATER DISCHARGES ASSOCIATED WITH ALL CONSTRUCTION ACTIVITY.

GENERAL NOTE

1. THE ELEMENTS OF THIS PAGE SHALL BE USED DURING CONSTRUCTION IN ANY AREA WHERE FINE MATERIAL MAY ENTER THE WATERS OF THE STATE OF NEW YORK OR THE UNITED STATES.

2. FOR TABLE OF QUANTITIES OF EROSION & SEDIMENT CONTROL MEASURES, SEE "MTD" DWGS.

3. FOR LOCATION OF EROSION & SEDIMENT CONTROL MEASURES, SEE GENERAL PLAN "GP"DWGS. AND BRIDGE WATER POLLUTION CONTROL PLAN "ST"DWGS.

EROSION AND SEDIMENT CONTROL LEGEND

—STO→	CHECK DAM - STONE ITEM 209.110102 M
	SILT FENCE, ITEM 209.13 M
	SEDIMENT TRAP - SAND BAG, ITEM 209.140201 M , ITEM 209.140202 M
GB	DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG, ITEM 209.1702M
	TURBIDITY CURTAIN, ITEM 209.1501 24

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES AND LEGEND

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

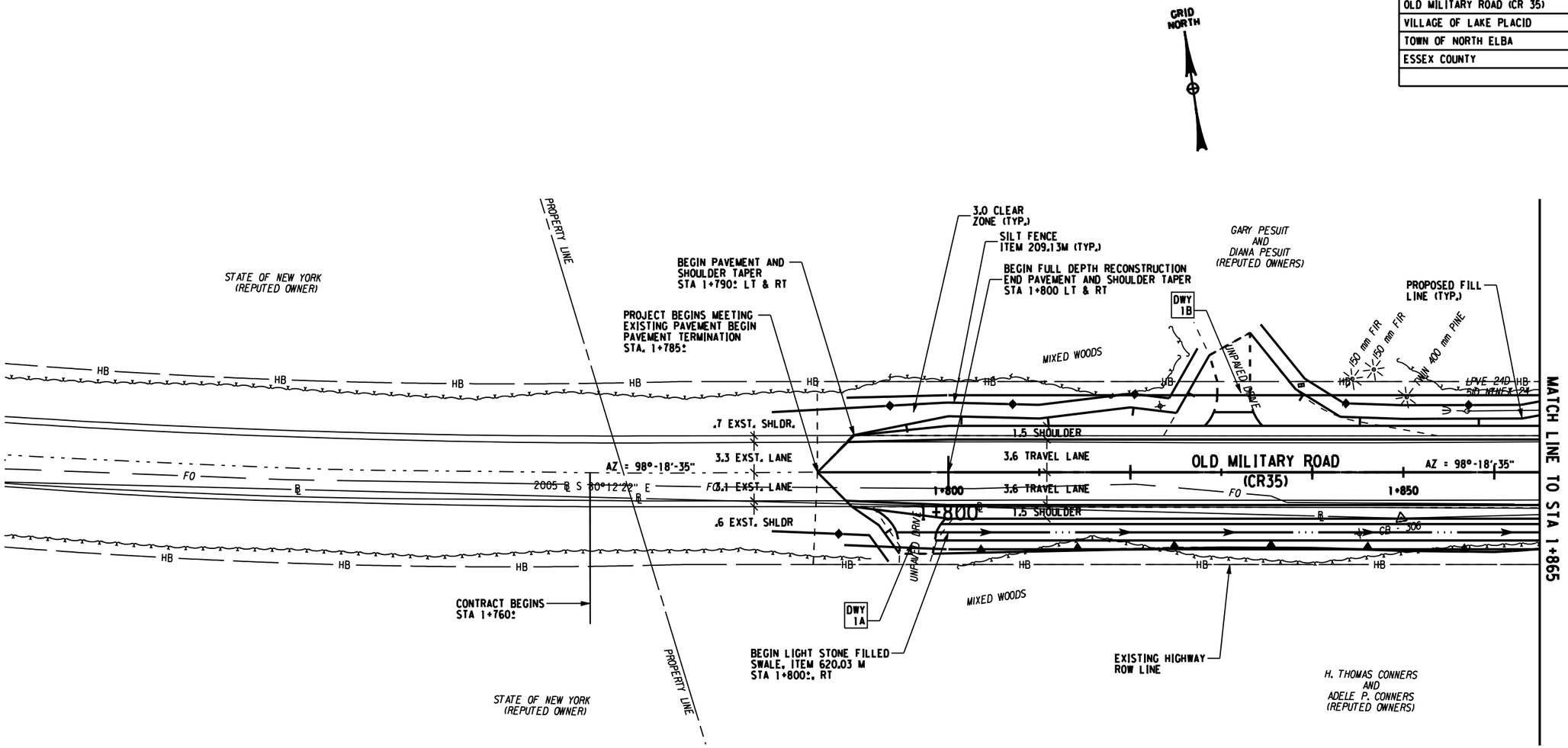
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_ECN.DGN	ONE	AUGUST 2011	ECN-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		72	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 1 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

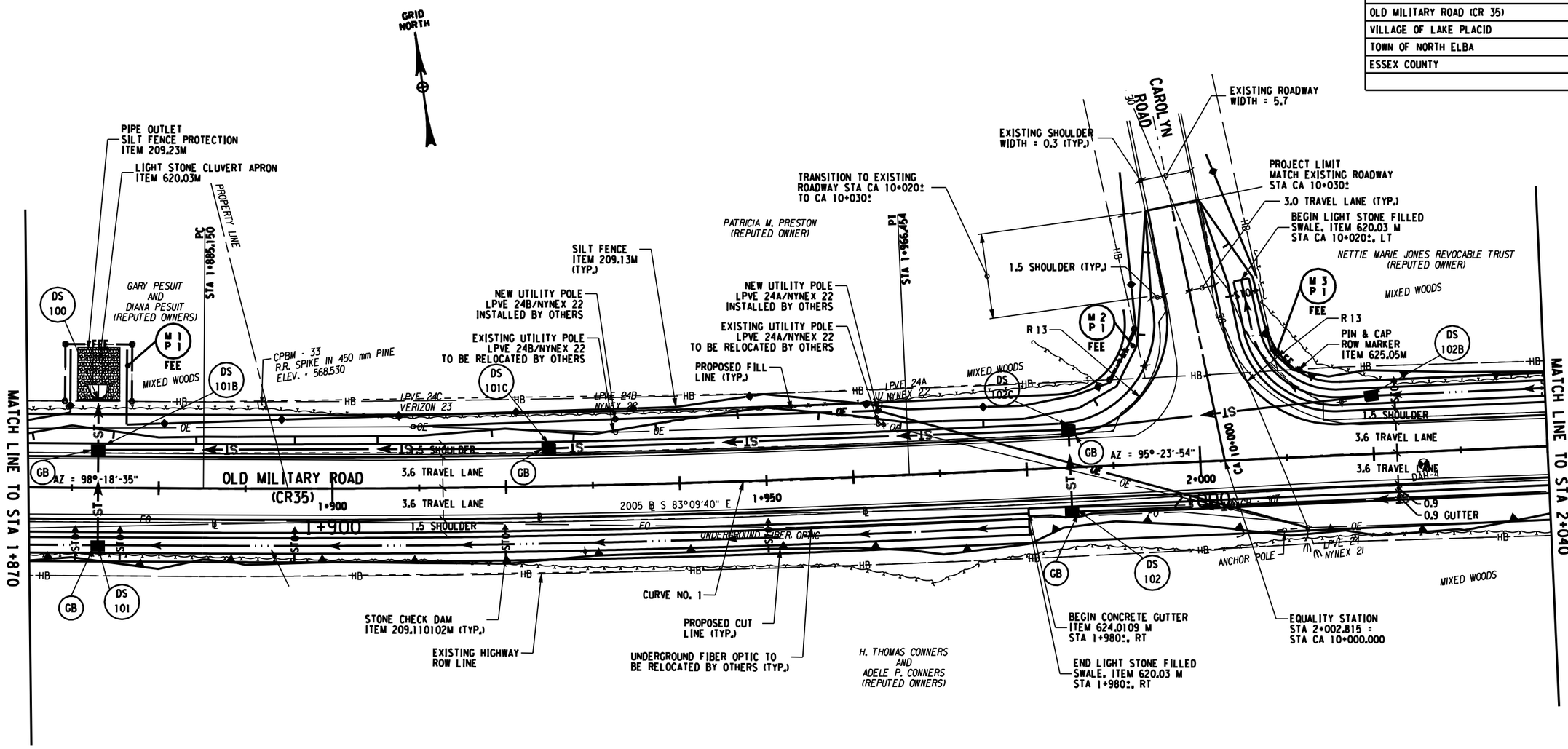
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_01	ONE	AUGUST 2011	GP-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		73	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



CURVE NO. 1
R = 1600.000 m L = 81.304 m e = -2.0% LT Δ = 2°-54'-41" T = 40.611 m
PC STA. 1+885.150 N: 605528.946 E: 188696.712
PI STA. 1+925.810 N: 605523.069 E: 188736.946
PT STA. 1+966.454 N: 605519.244 E: 188777.426

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 2 OF 19)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

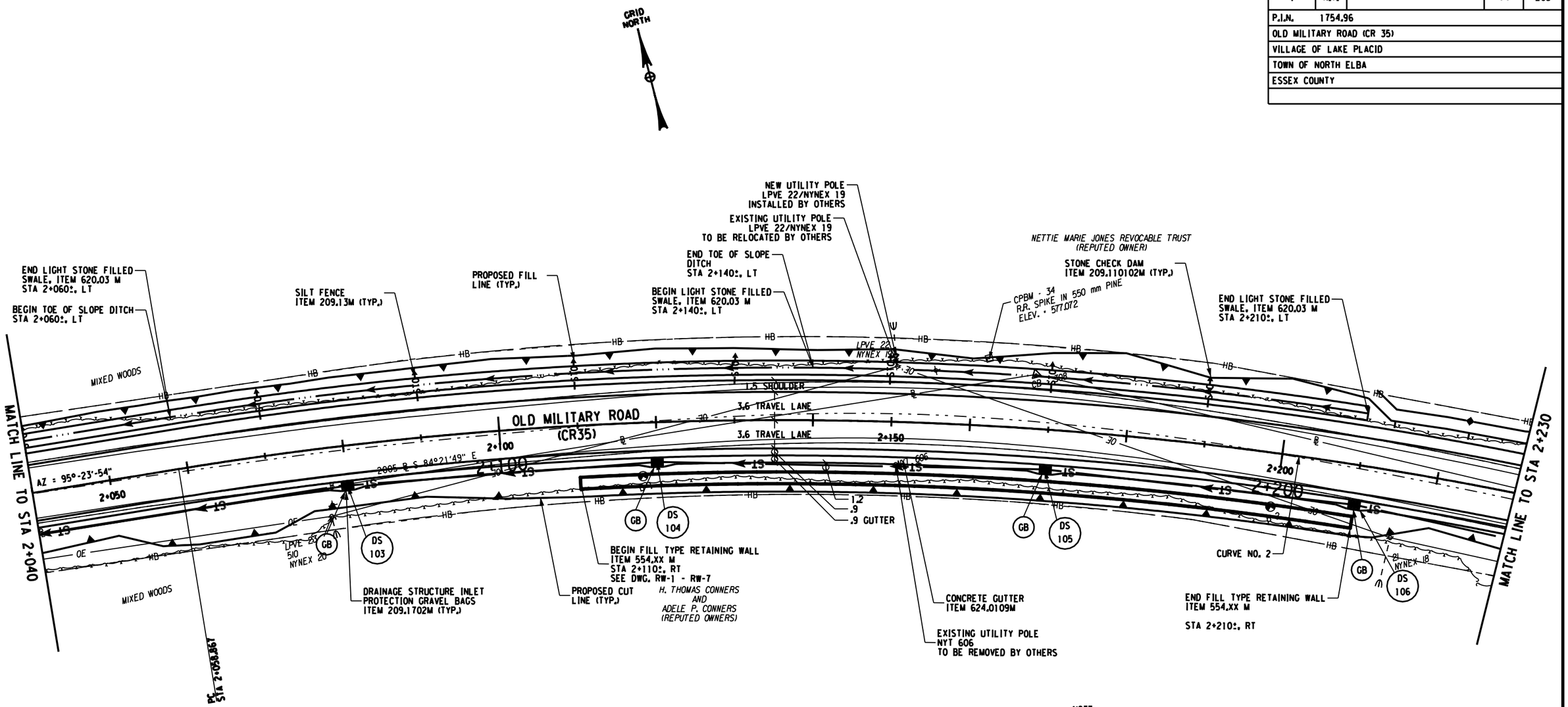
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_02	ONE	AUGUST 2011	GP-2

ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		74	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 2
R = 475.000 m L = 277.717 m e = -5.0% RT Δ = 33°-29'-56" T = 142.954 m
PC STA. 2+058.867 N: 605510.550 E: 188869.429
PI STA. 2+201.821 N: 605497.100 E: 189011.749
PT STA. 2+336.583 N: 605.407.336 E: 189123.006

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 3 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

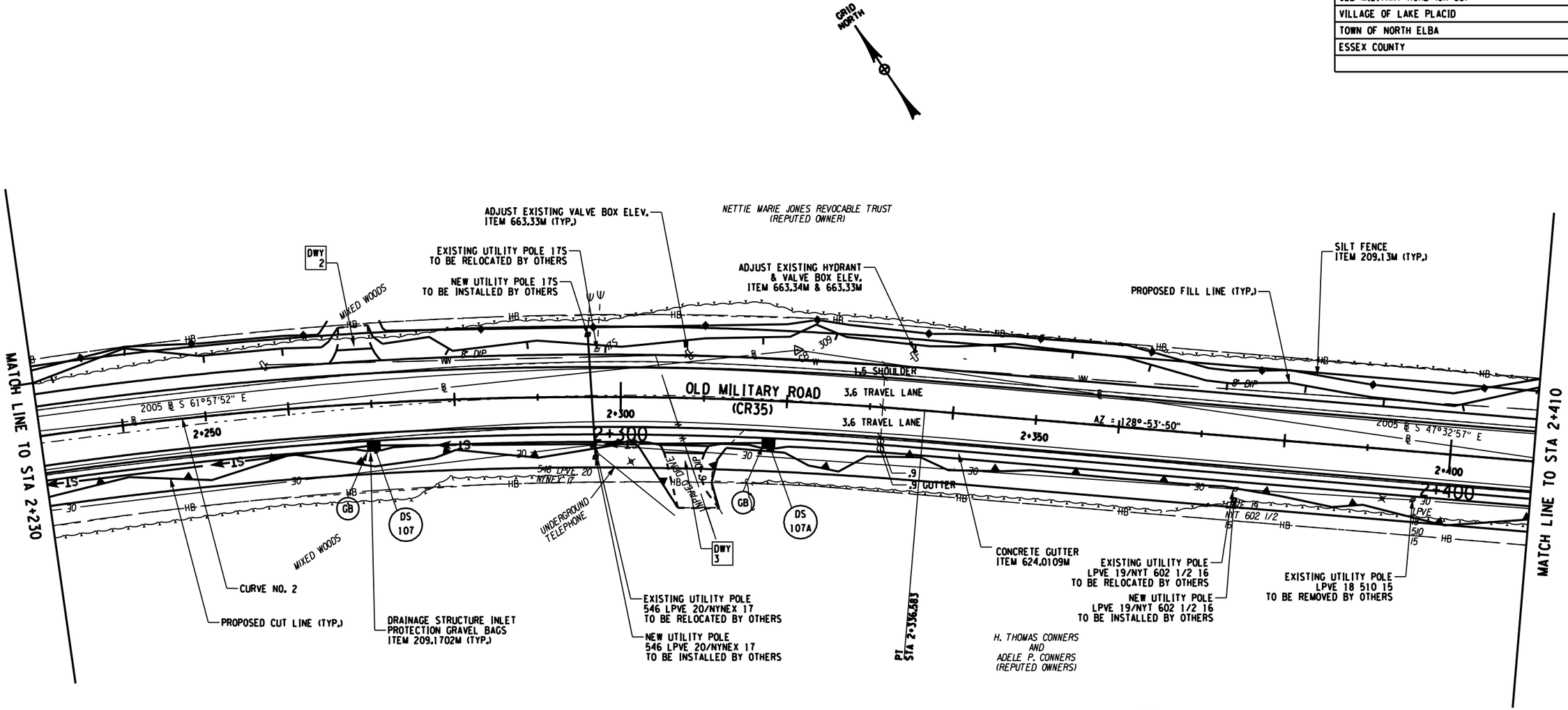
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_03	ONE	AUGUST 2011	GP-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		75	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 2
R = 475.000 m L = 277.717 m e = -5.0% RT Δ = 33°-29'-56" T = 142.954 m
PC STA. 2+058.867 N: 605510.550 E: 188869.429
PI STA. 2+201.821 N: 605497.100 E: 189011.749
PT STA. 2+336.583 N: 605407.336 E: 189123.006

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENENERAL PLANS
(SHEET 4 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

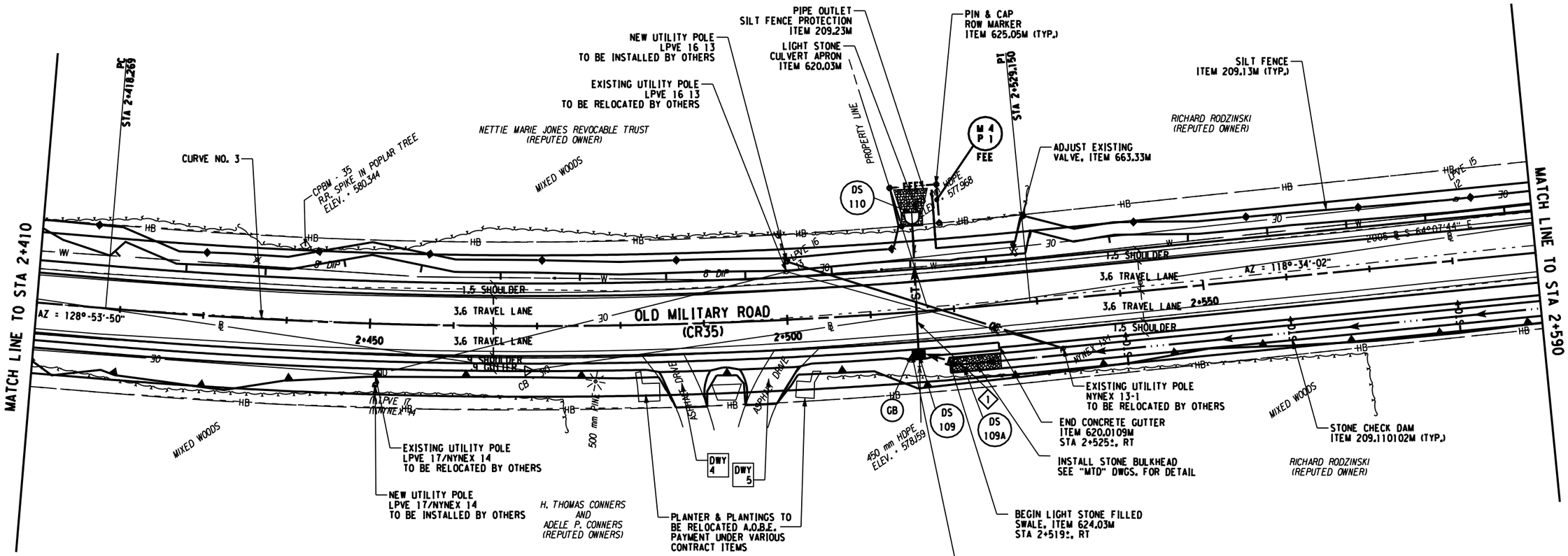
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_04	ONE	AUGUST 2011	GP-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		76	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 3
R = 615.000 m L = 110.881 m e = -4.2% LT Δ = 10°-19'-48" T = 55.591 m
PC STA. 2+418.269 N: 605356.043 E: 189186.580
PI STA. 2+473.860 N: 605321.136 E: 189229.845
PT STA. 2+529.150 N: 605294.553 E: 189278.668

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 5 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

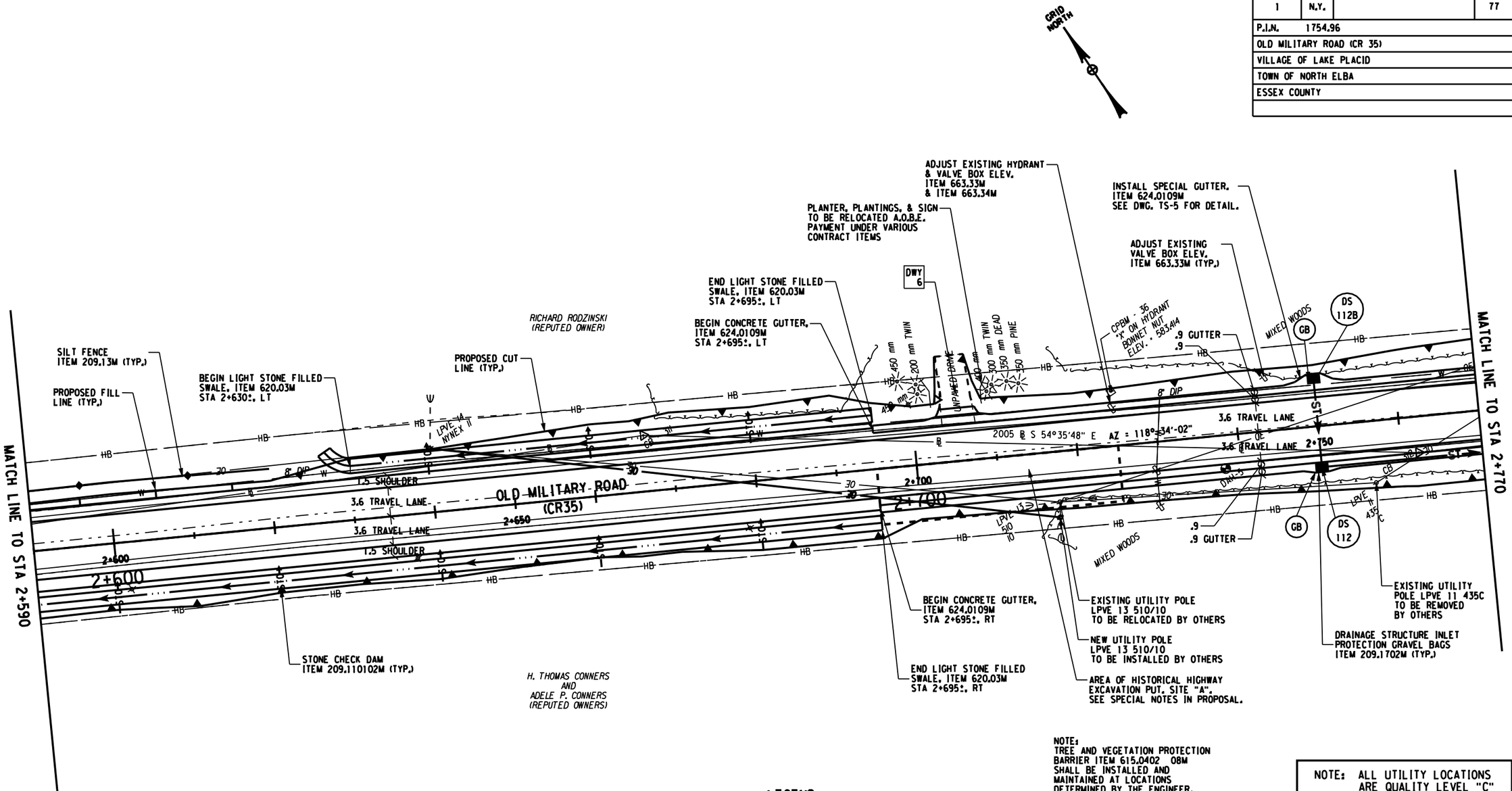
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_05	ONE	AUGUST 2011	GP-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		77	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

LEGEND:

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- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 6 OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

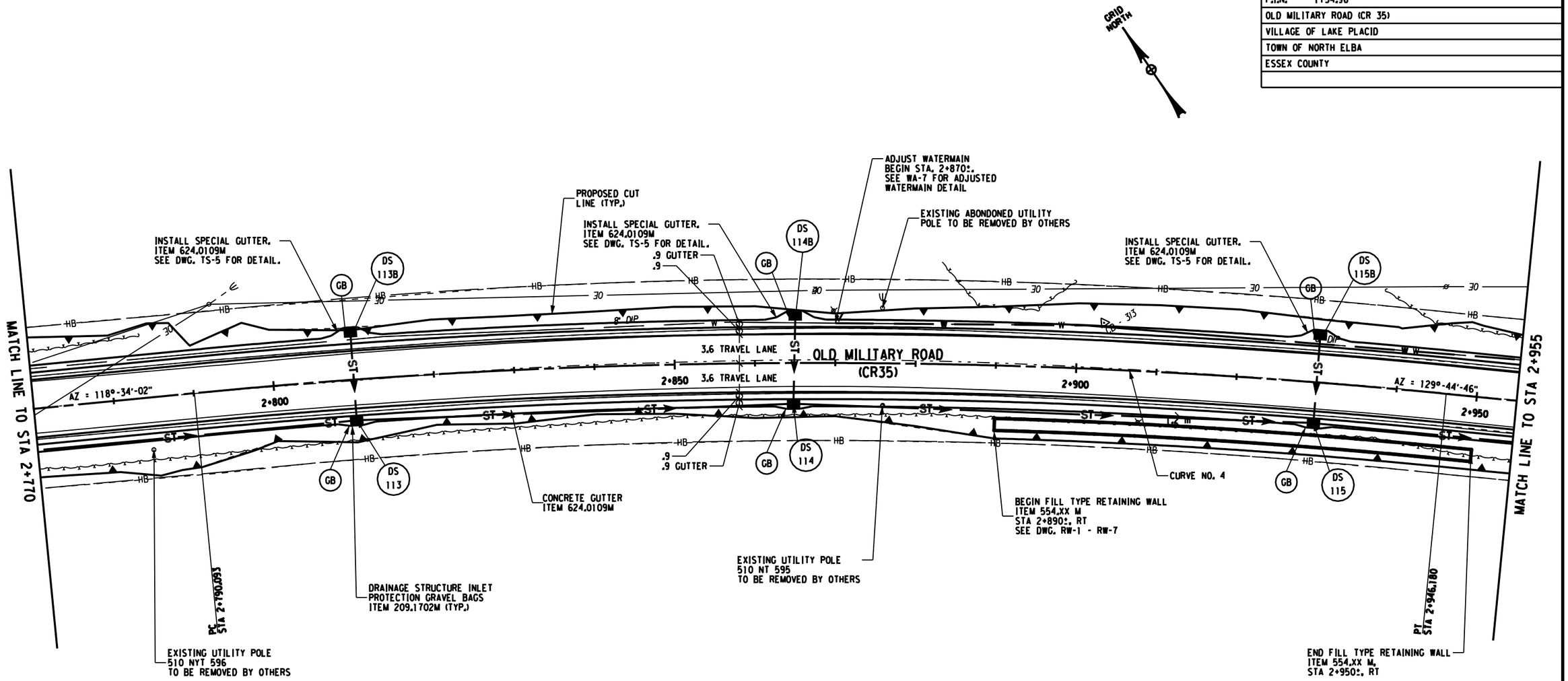
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_06	ONE	AUGUST 2011	GP-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		78	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



CURVE NO. 4
R = 800.000 m L = 156.087 m e = -3.4% RT Δ = 11°-10'-44" T = 78.292 m
PC STA. 2+790.093 N: 605169.773 E: 189507.844
PI STA. 2+868.385 N: 605132.334 E: 189576.604
PT STA. 2+946.180 N: 605082.276 E: 189636.802

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 7 OF 19)

Folt-Albert Associates
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ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

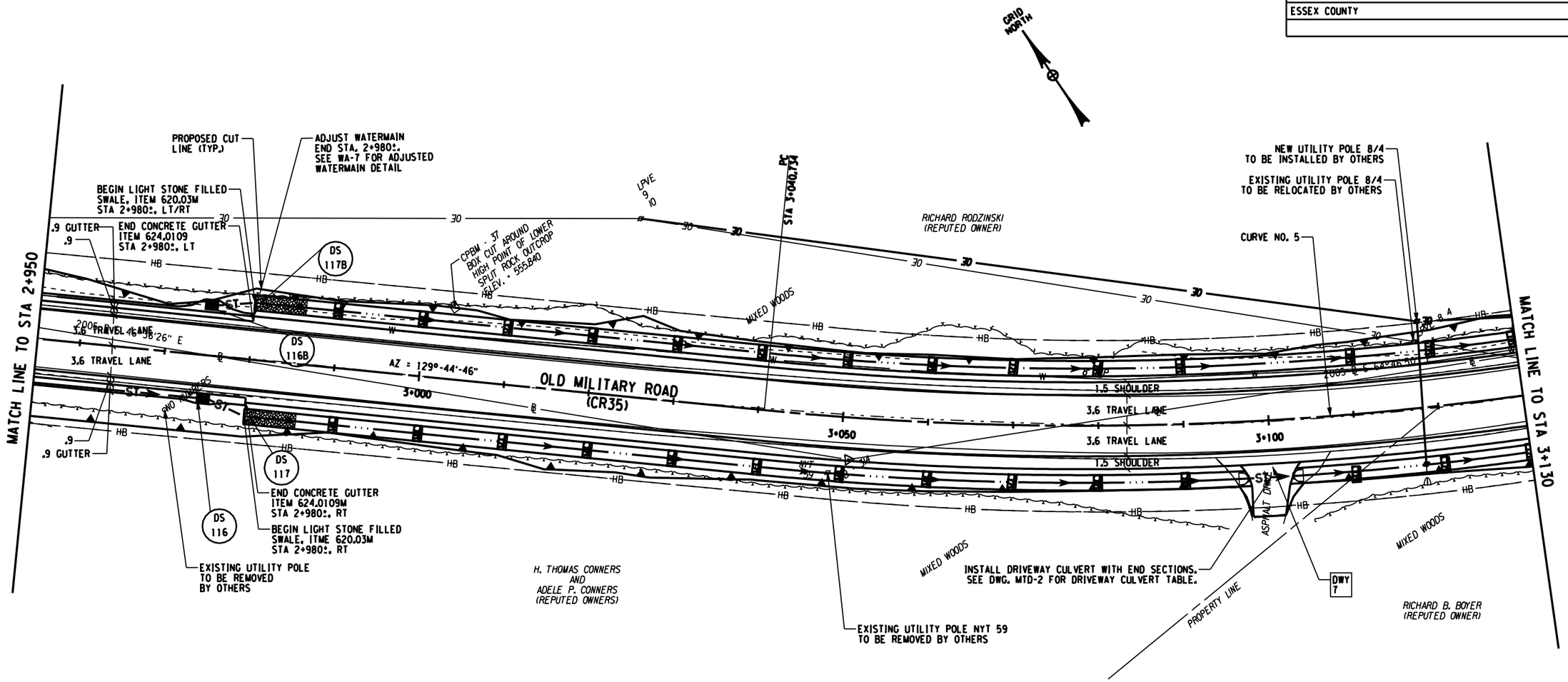
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_07	ONE	AUGUST 2011	GP-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		79	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 5
R = 380.000 m L = 96.753 m e = -5.8% LT Δ = 14°-35'-18" T = 78.292 m
PC STA. 3+040.734 N: 605021.819 E: 189709.503
PI STA. 3+089.373 N: 604990.720 E: 189746.901
PT STA. 3+137.487 N: 604970.042 E: 189790.926

LEGEND:

- DS ▪ = PROPOSED DRAINAGE STRUCTURE
- ▪ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY ▪ = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 8 OF 19)

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Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

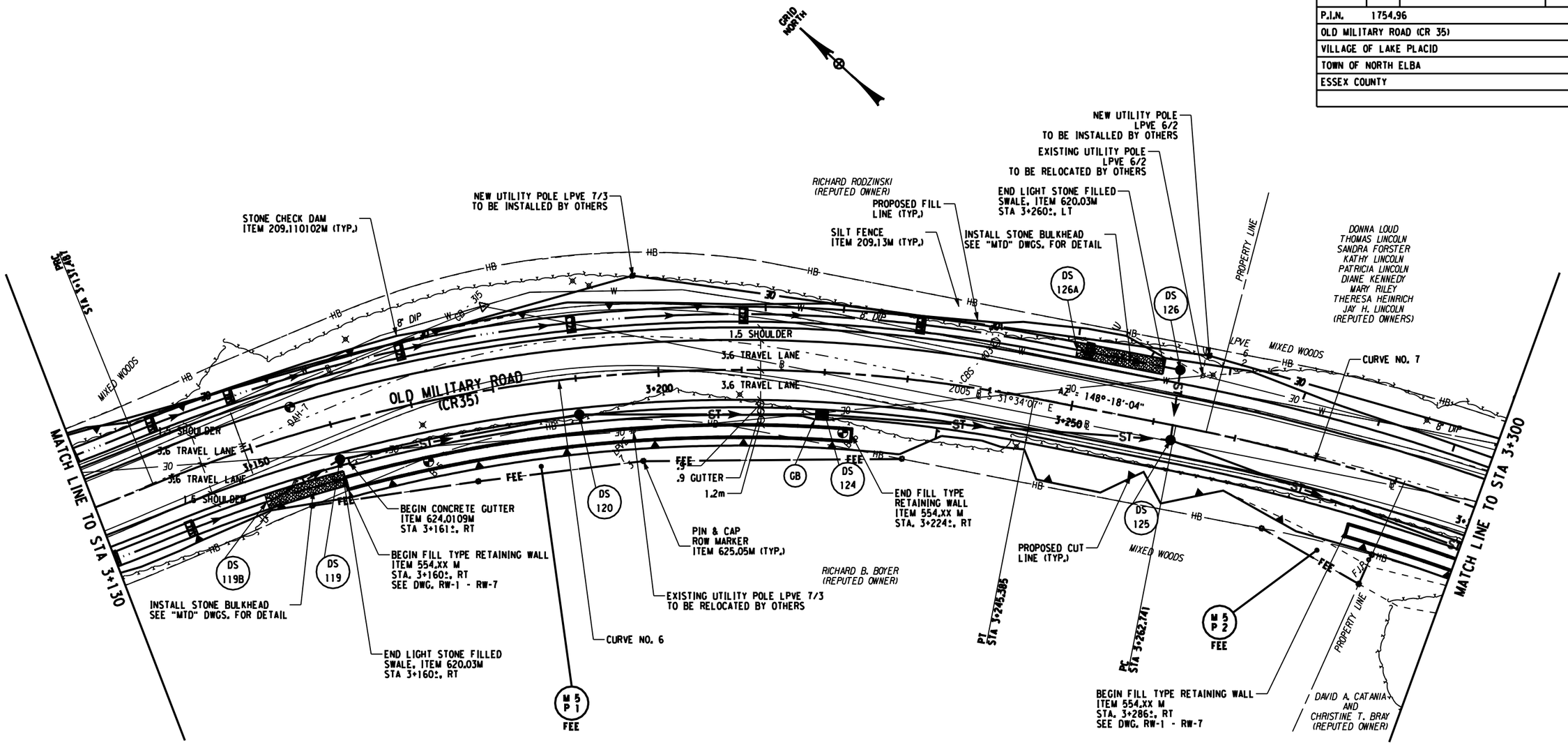
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_08	ONE	AUGUST 2011	GP-8

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		80	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 6
R = 186.526 m L = 107.898 m e = -7.9% RT Δ = 33°-08'-36" T = 55.505 m
PC STA. 3+137.487 N: 604970.042 E: 189790.926
PI STA. 3+192.992 N: 604946.446 E: 189841.167
PT STA. 3+245.385 N: 604899.221 E: 189870.332

CURVE NO. 7
R = 250.000 m L = 102.345 m e = -7.2% RT Δ = 23°-27'-21" T = 51.900 m
PC STA. 3+262.741 N: 604884.453 E: 189879.452
PI STA. 3+314.641 N: 604840.296 E: 189906.723
PT STA. 3+365.087 N: 604788.933 E: 189914.164

NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
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- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 9 OF 19)

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

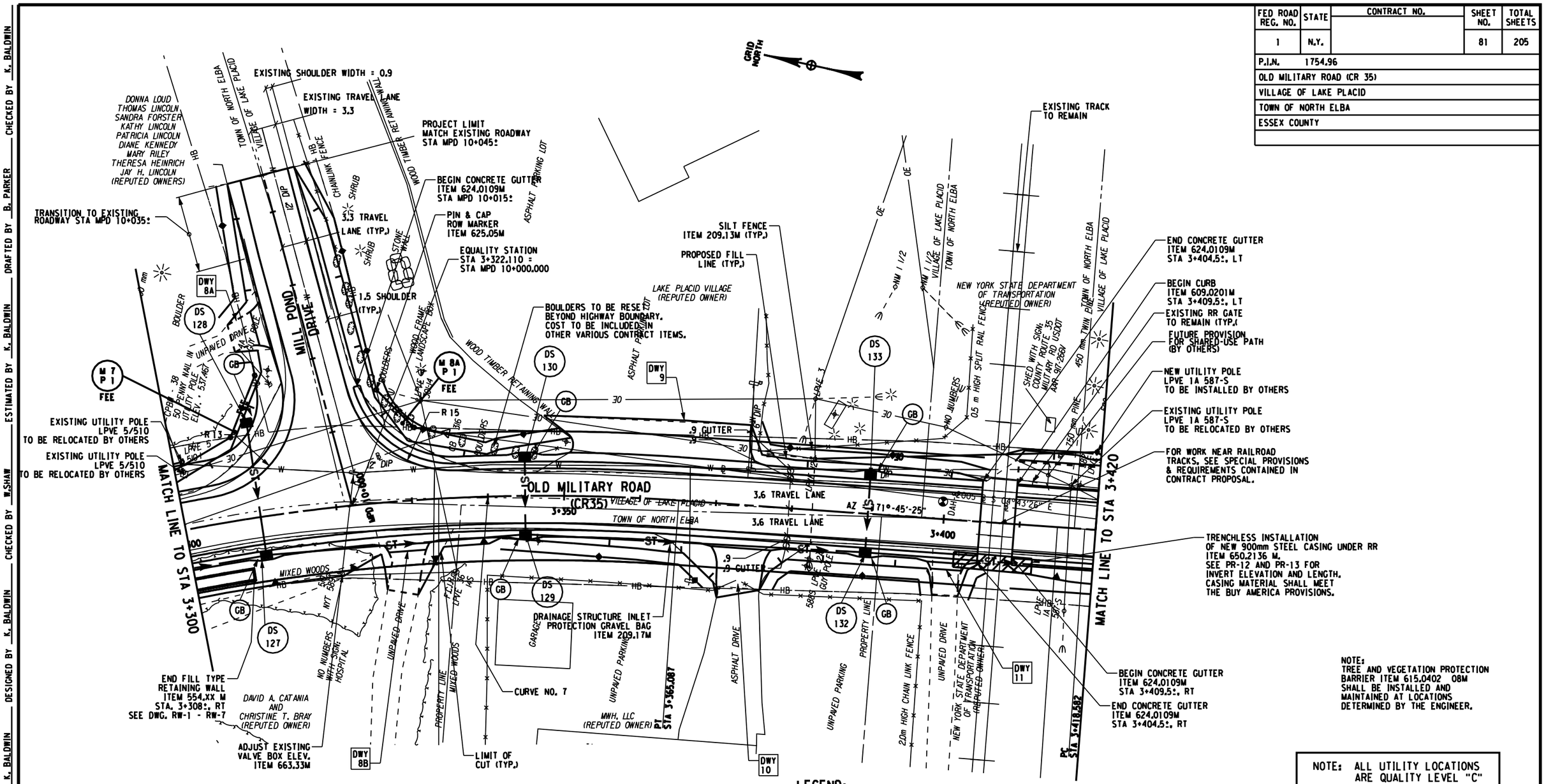
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_09	ONE	AUGUST 2011	GP-9

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		81	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
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CURVE NO. 7
R = 250.000 m L = 102.345 m e = -7.2% RT Δ = 23°-27'-21" T = 51.900 m
PC STA. 3+262.741 N: 604884.453 E: 189879.452
PI STA. 3+314.641 N: 604840.296 E: 189906.723
PT STA. 3+365.087 N: 604788.933 E: 189914.164

LEGEND:

- DS ■ = PROPOSED DRAINAGE STRUCTURE
- ◇ ■ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY ■ = DRIVEWAY NUMBER
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- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

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SIGNATURE DATE

GENERAL PLANS
(SHEET 10 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

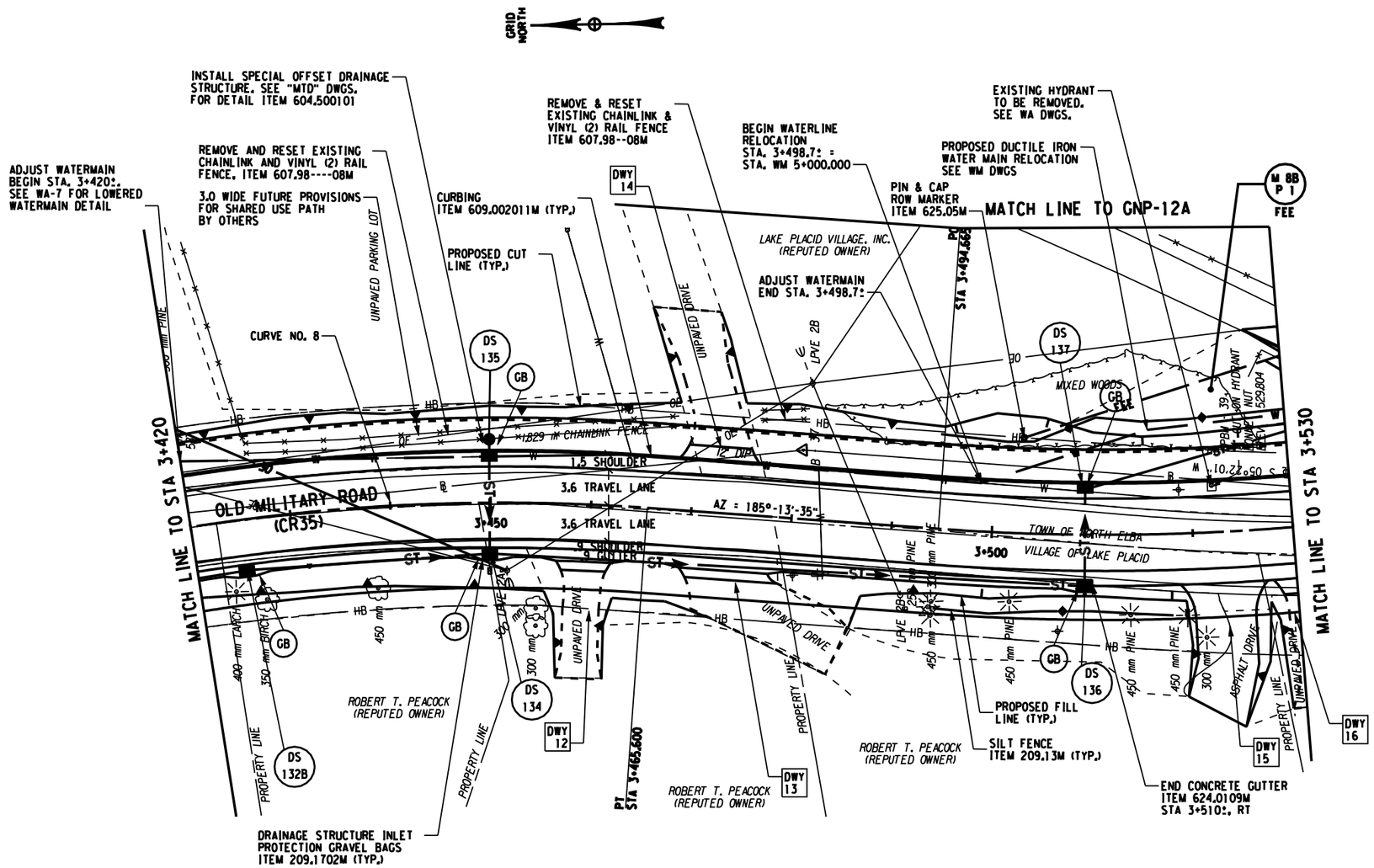
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.gnp.10	ONE	AUGUST 2011	GP-10

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		82	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTES:

1. TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

2. SEE DRAWING NO. WP-1 THRU WP-9 FOR WETLAND MITIGATION AND STORMWATER QUALITY FEATURES AND DETAILS.

CURVE NO. 8
R = 200.000 m L = 47.017 m e = -2.0% RT Δ = 13°-28'-10" T = 23.617 m
PC STA. 3+418.582 N: 604735.990 E: 189921.834
PI STA. 3+442.200 N: 604712.616 E: 189925.220
PT STA. 3+465.600 N: 604689.097 E: 189923.068

LEGEND:

- DS ▪ = PROPOSED DRAINAGE STRUCTURE
- ◇ ▪ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY ▪ = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 11 OF 19)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

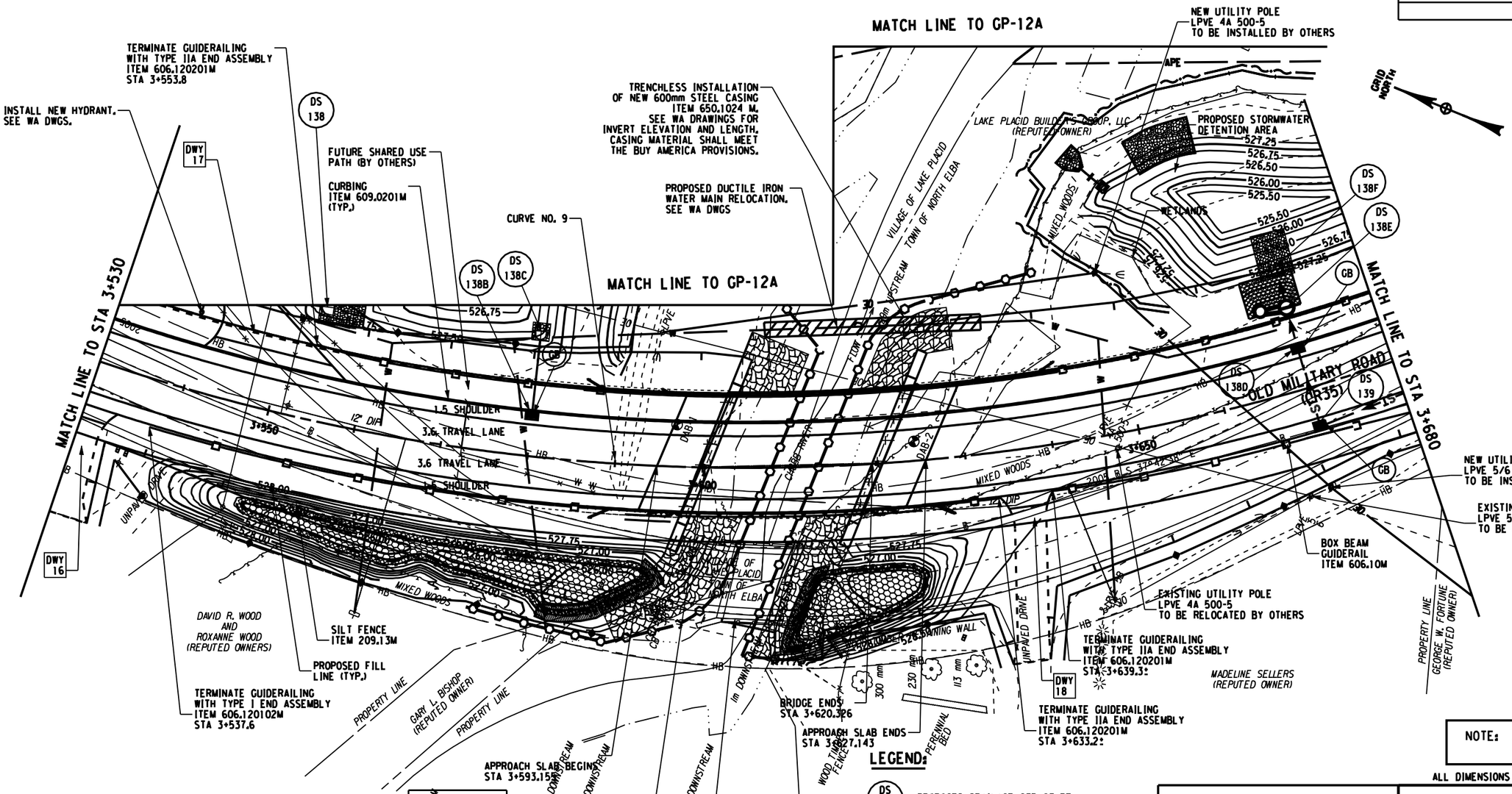
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.gnp.11	ONE	AUGUST 2011	GP-11

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		83	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



CURVE NO. 9
R = 230.000 m L = 205.901 m e = -7.5% LT Δ = 51°-17'-32" T = 110.426 m
PC STA. 3+494.665 N: 604660.152 E: 189920.421
PI STA. 3+605.091 N: 604550.186 E: 189910.362
PT STA. 3+700.566 N: 604473.569 E: 189989.883

5 0 5 10 15 20 25 m
SCALE

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- STO = STONE CHECK DAM, ITEM 209.110102
- = SILT FENCE, ITEM 209.13
- = TURBIDITY CURTAIN, ITEM 209.1501

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

2. SEE DRAWING NO. WP-1 THRU WP-9 FOR WETLAND MITIGATION AND STORMWATER QUALITY FEATURES AND DETAILS.

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 12 OF 19)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

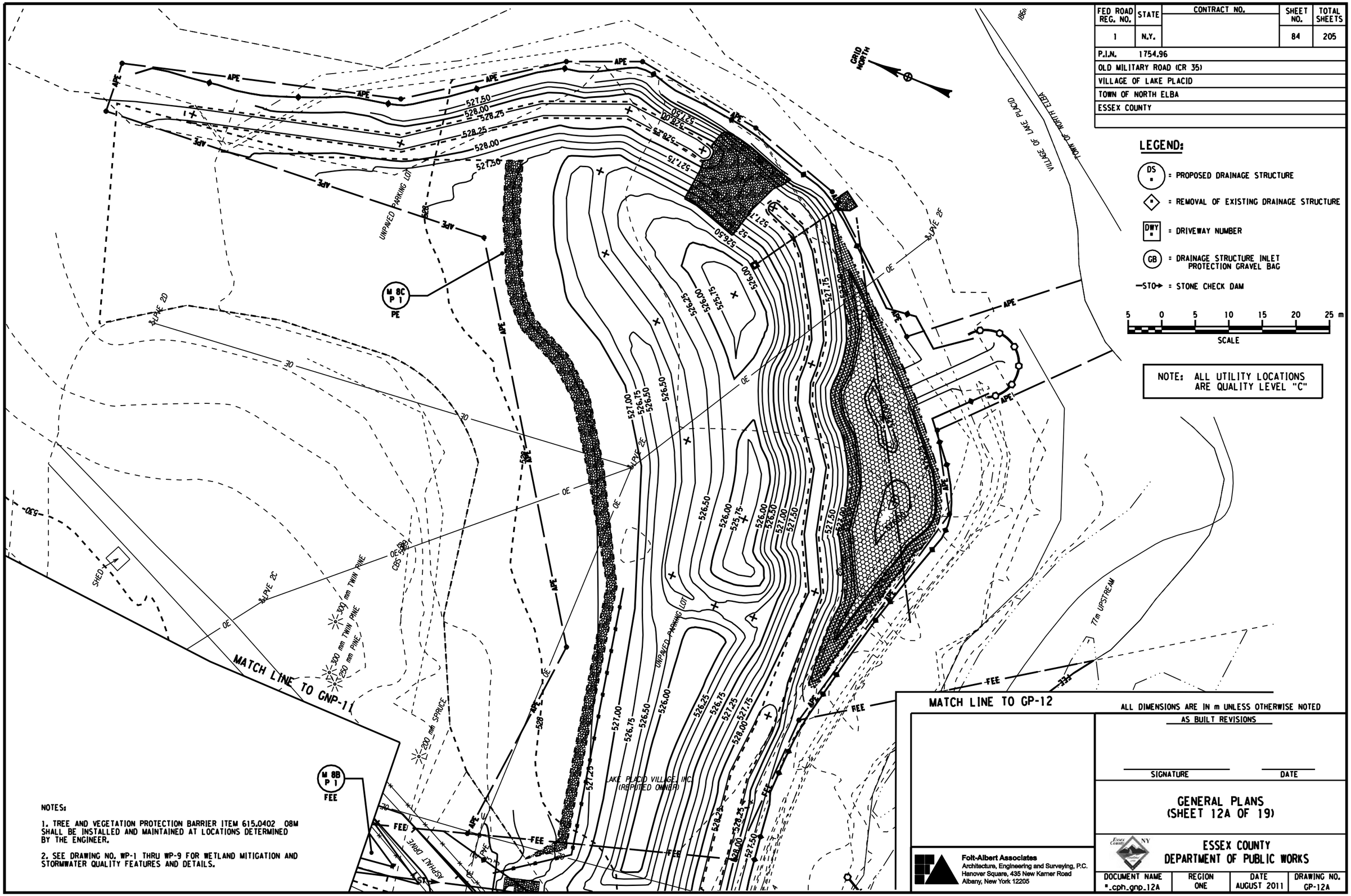
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_12	ONE	AUGUST 2011	GP-12

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		84	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTES:

1. TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

2. SEE DRAWING NO. WP-1 THRU WP-9 FOR WETLAND MITIGATION AND STORMWATER QUALITY FEATURES AND DETAILS.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 12A OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

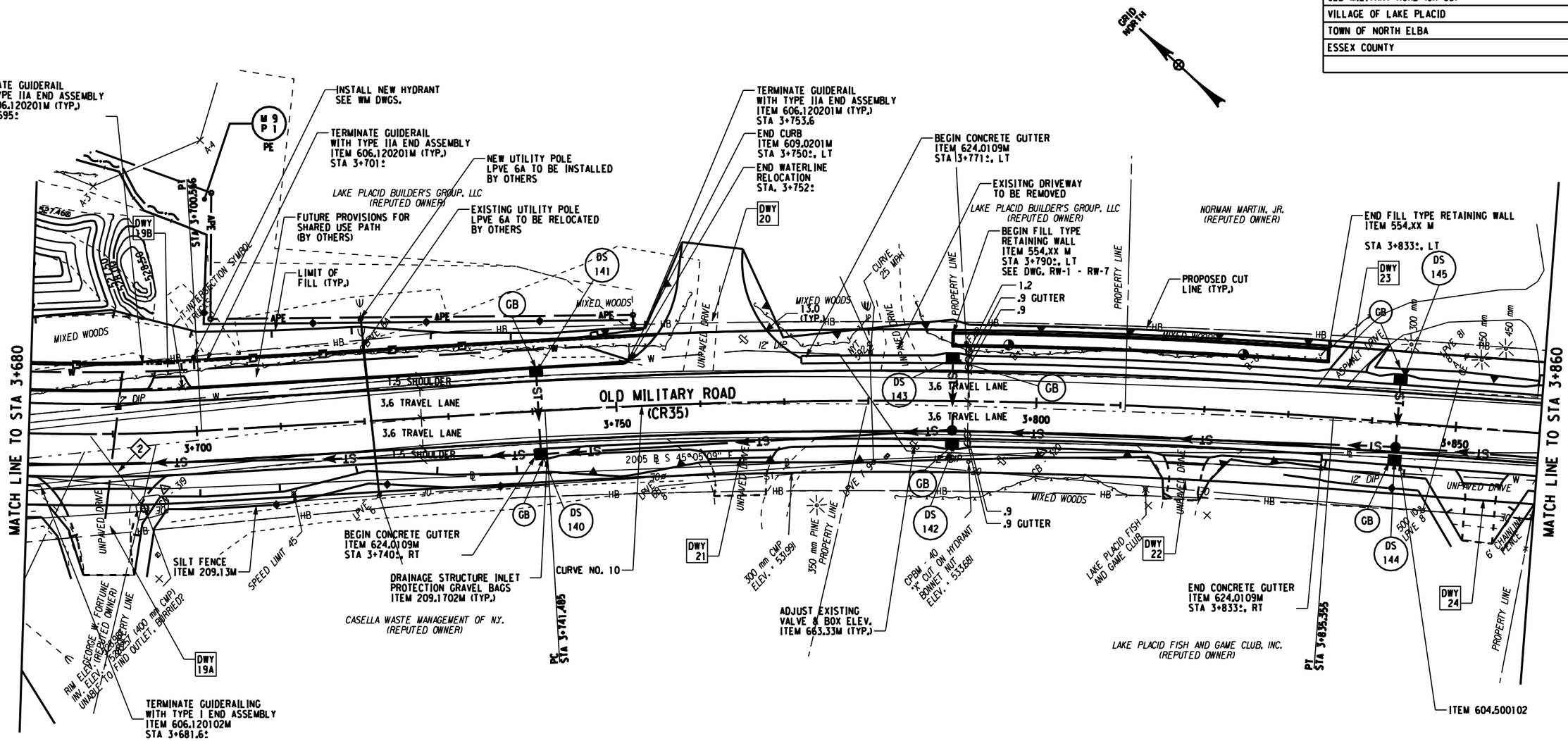
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_12A	ONE	AUGUST 2011	GP-12A

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		85	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

2. SEE DRAWING NO. WP-1 THRU WP-9 FOR WETLAND MITIGATION AND STORMWATER QUALITY FEATURES AND DETAILS.

CURVE NO. 10
R = 700.000 m L = 93.870 m e = -3.8% RT Δ = 07°-41'-00" T = 47.005 m
PC STA. 3+741.485 N: 604445.178 E: 190019.351
PI STA. 3+788.491 N: 604412.564 E: 190053.201
PT STA. 3+835.355 N: 604375.717 E: 190082.387

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- ◇ = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 13 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

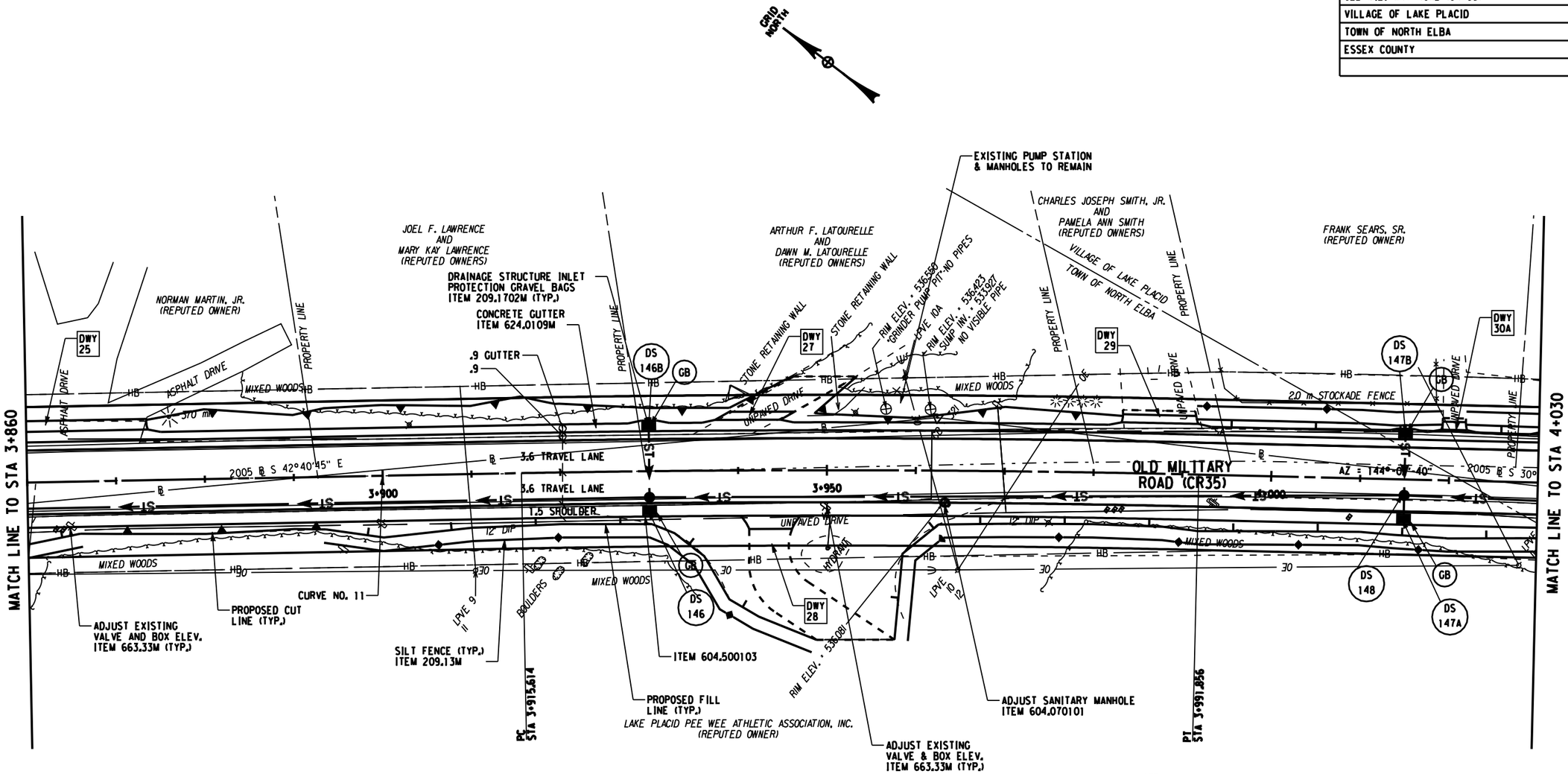
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_13	ONE	AUGUST 2011	GP-13

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		86	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

SANITARY SEWER NOTE:
THE EXISTING SANITARY SEWER IS VTP PIPE. EXTREME CAUTION SHALL BE USED IN THE AREAS NEAR EACH SANITARY SEWER PIPE OR SERVICE. ANY DAMAGE TO THE EXISTING SANITARY SEWER SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. INCLUDING ANY AND ALL EQUIPMENT, MATERIALS AND PERSONNEL REQUIRED TO COMPLETE THE REPAIR IN A TIMELY MANNER, TO THE SATISFACTION OF THE ENGINEER AND LOCAL UTILITY. THE REPAIR AND REPAIR OPERATIONS SHALL MEET ALL HEALTH AND SAFETY REQUIREMENTS.

CURVE NO. 11
R = 1800.000 m L = 76.242 m e = -2.0% RT Δ = 02°-25'-37" T = 38.127 m
PC STA. 3+915.614 N: 604312.804 E: 190132.220
PI STA. 3+953.740 N: 604282.917 E: 190155.893
PT STA. 3+991.856 N: 604252.055 E: 190178.280

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 14 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

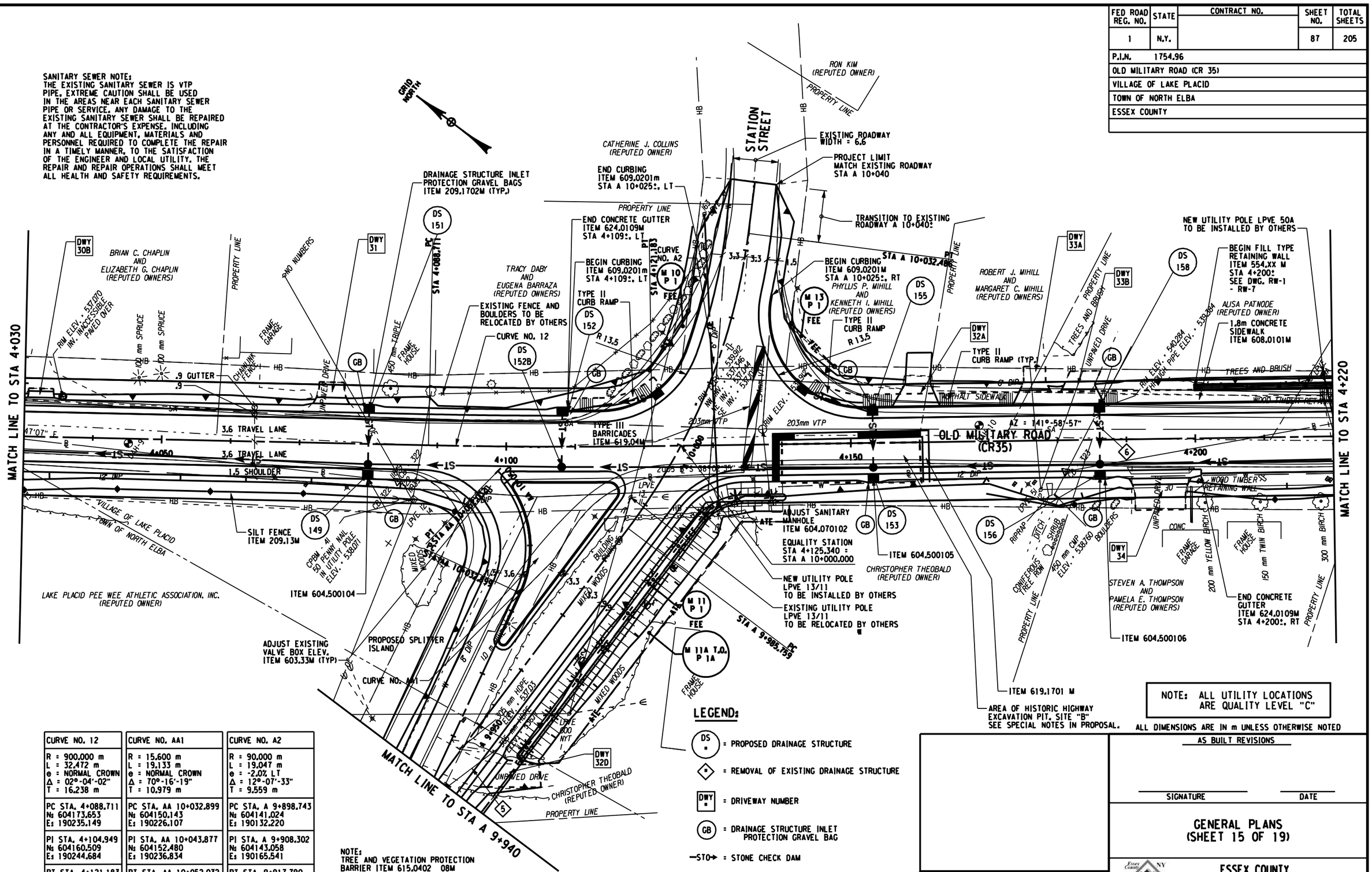
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_14	ONE	AUGUST 2011	GP-14

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		87	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

SANITARY SEWER NOTE:
THE EXISTING SANITARY SEWER IS VTP PIPE. EXTREME CAUTION SHALL BE USED IN THE AREAS NEAR EACH SANITARY SEWER PIPE OR SERVICE. ANY DAMAGE TO THE EXISTING SANITARY SEWER SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. INCLUDING ANY AND ALL EQUIPMENT, MATERIALS AND PERSONNEL REQUIRED TO COMPLETE THE REPAIR IN A TIMELY MANNER, TO THE SATISFACTION OF THE ENGINEER AND LOCAL UTILITY. THE REPAIR AND REPAIR OPERATIONS SHALL MEET ALL HEALTH AND SAFETY REQUIREMENTS.



NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

CURVE NO. 12	CURVE NO. AA1	CURVE NO. A2
R = 900.000 m L = 32.472 m e = NORMAL CROWN Δ = 02°-04'-02" T = 16.238 m	R = 15.600 m L = 19.133 m e = NORMAL CROWN Δ = 70°-16'-19" T = 10.979 m	R = 90.000 m L = 19.047 m e = -2.0% LT Δ = 12°-07'-33" T = 9.559 m
PC STA. 4+088.711 N: 604173.653 E: 190235.149	PC STA. AA 10+032.899 N: 604150.143 E: 190226.107	PC STA. A 9+898.743 N: 604141.024 E: 190132.220
PI STA. 4+104.949 N: 604160.509 E: 190244.684	PI STA. AA 10+043.877 N: 604152.480 E: 190236.834	PI STA. A 9+908.302 N: 604143.058 E: 190165.541
PT STA. 4+121.183 N: 604147.717 E: 190254.686	PT STA. AA 10+052.032 N: 604163.366 E: 190238.255	PT STA. A 9+917.790 N: 604143.086 E: 190175.100

NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 15 OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_15	ONE	AUGUST 2011	GP-15

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		88	205

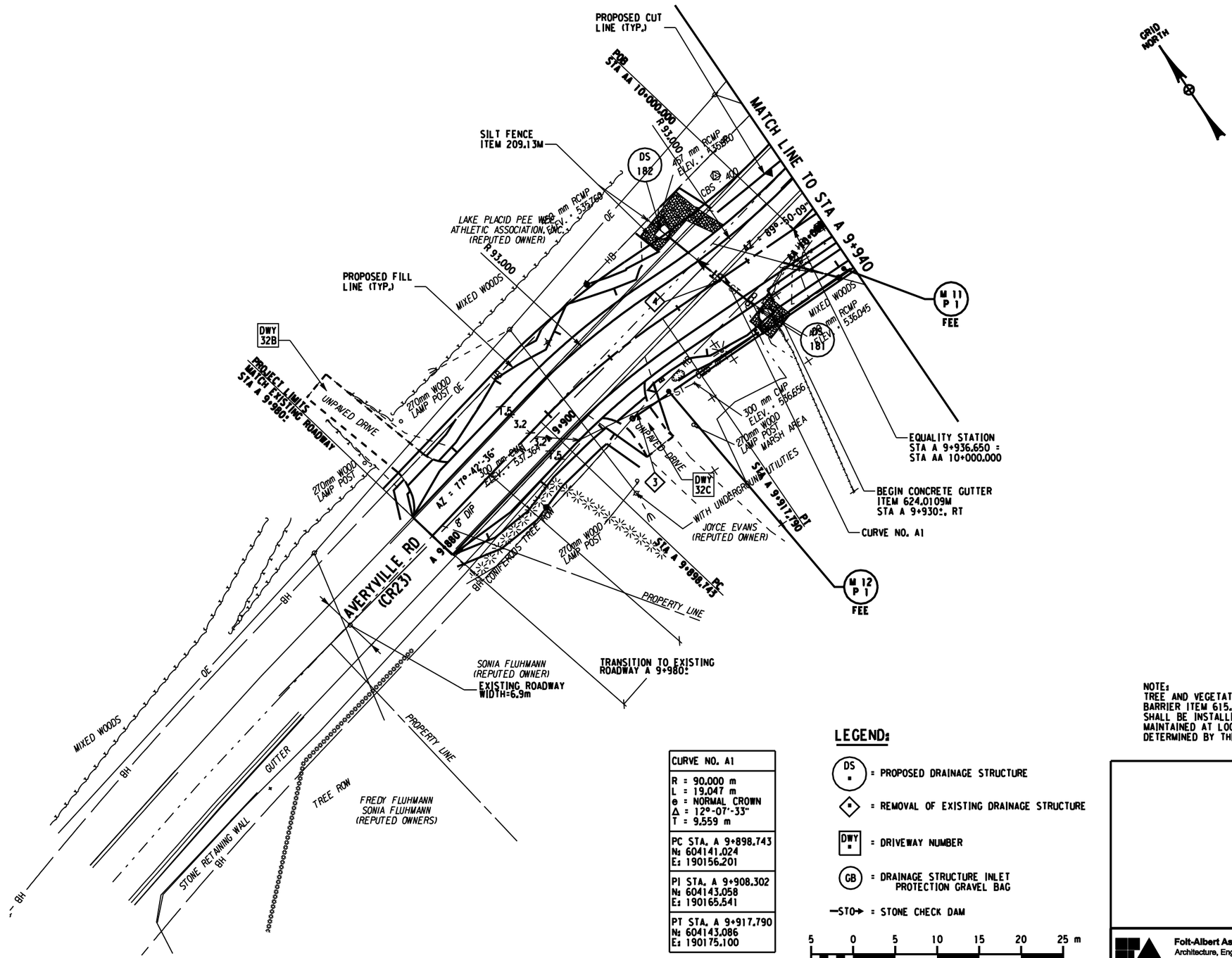
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY



CURVE NO. A1
R = 90.000 m L = 19.047 m e = NORMAL CROWN Δ = 12°-07'-33" T = 9.559 m
PC STA. A 9+898.743 N: 604141.024 E: 190156.201
PI STA. A 9+908.302 N: 604143.058 E: 190165.541
PT STA. A 9+917.790 N: 604143.086 E: 190175.100

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 16 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

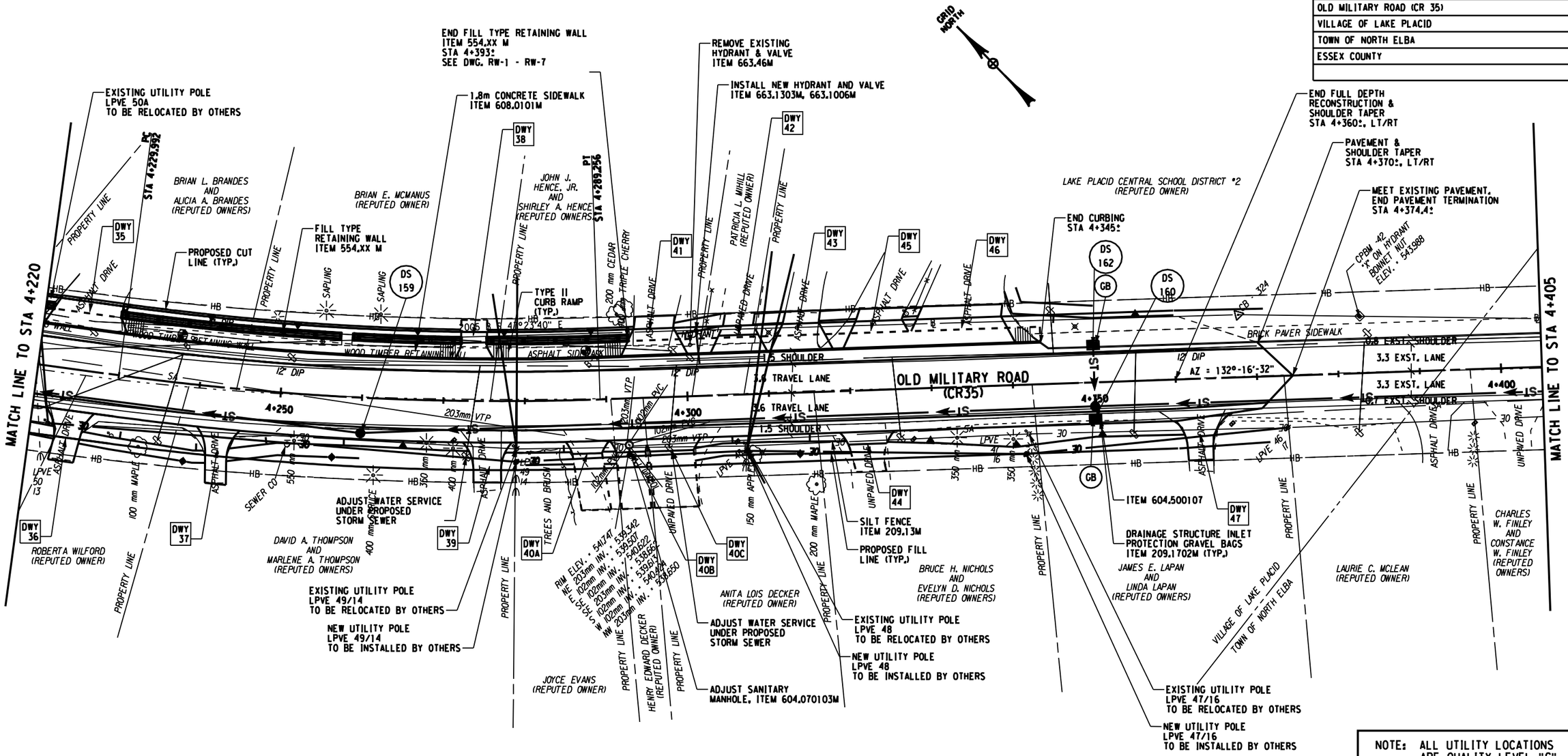
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.gnp.16	ONE	AUGUST 2011	GP-16

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		89	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

SANITARY SEWER NOTE:
THE EXISTING SANITARY SEWER IS VTP PIPE. EXTREME CAUTION SHALL BE USED IN THE AREAS NEAR EACH SANITARY SEWER PIPE OR SERVICE. ANY DAMAGE TO THE EXISTING SANITARY SEWER SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. INCLUDING ANY AND ALL EQUIPMENT, MATERIALS AND PERSONNEL REQUIRED TO COMPLETE THE REPAIR IN A TIMELY MANNER, TO THE SATISFACTION OF THE ENGINEER AND LOCAL UTILITY. THE REPAIR AND REPAIR OPERATIONS SHALL MEET ALL HEALTH AND SAFETY REQUIREMENTS.

NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

CURVE NO. 13
R = 350.000 m L = 59.263 m e = -6.1% LT Δ = 09°-42'-06" T = 29.703 m
PC STA. 4+229.992 N: 604062.001 E: 190321.710
PI STA. 4+259.695 N: 604038.603 E: 190340.006
PT STA. 4+289.256 N: 604018.622 E: 190361.983

LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 17 OF 19)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

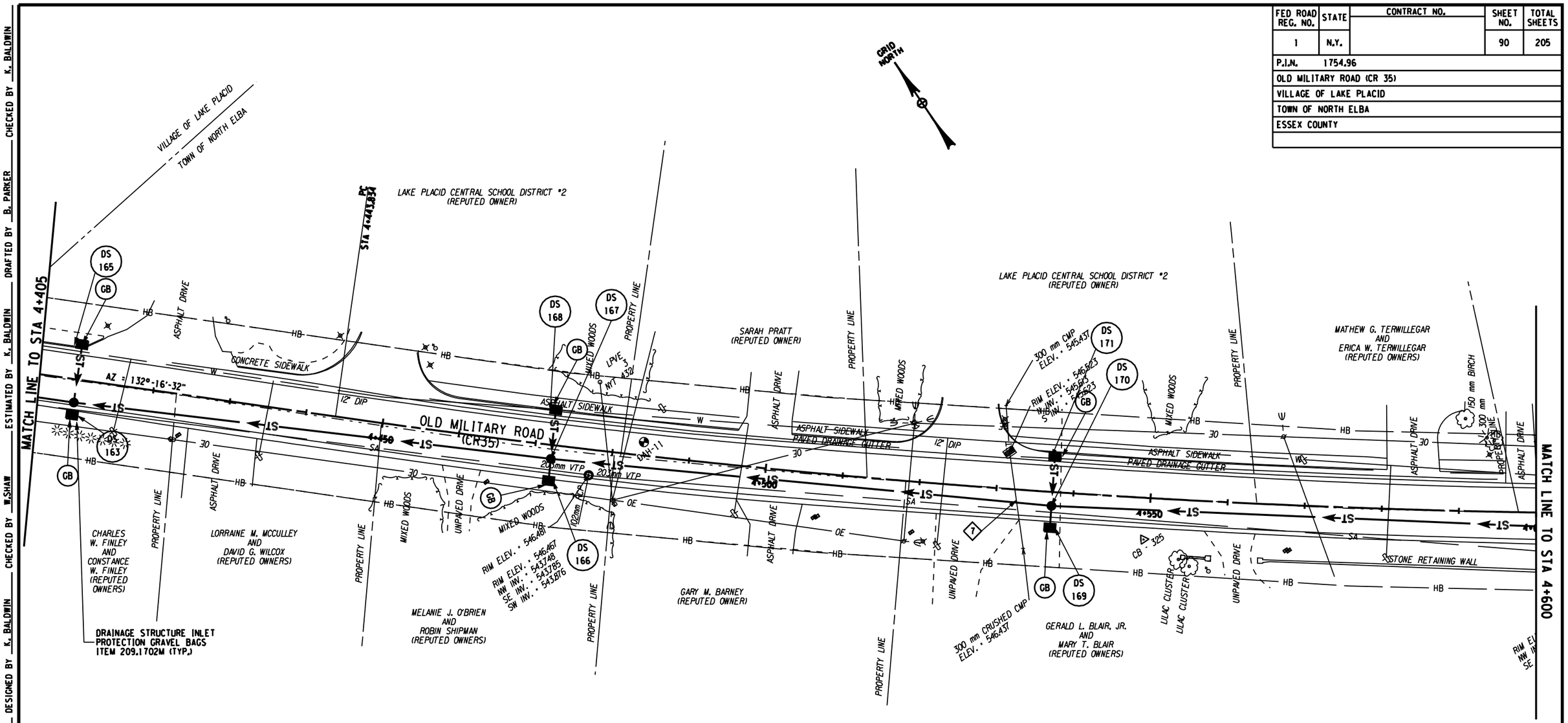
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.gnp.17	ONE	AUGUST 2011	GP-17

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		90	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SANITARY SEWER NOTE:
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- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

NOTE:
TREE AND VEGETATION PROTECTION BARRIER ITEM 615.0402 08M SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS DETERMINED BY THE ENGINEER.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLAN
(SHEET 18 OF 19)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

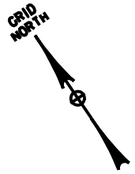
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_gnp_gp21	ONE	AUGUST 2011	GP-18

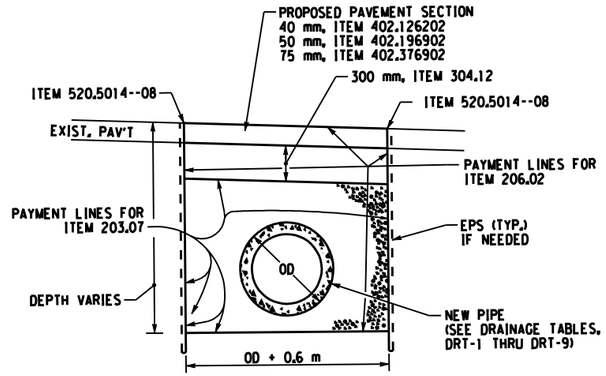
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

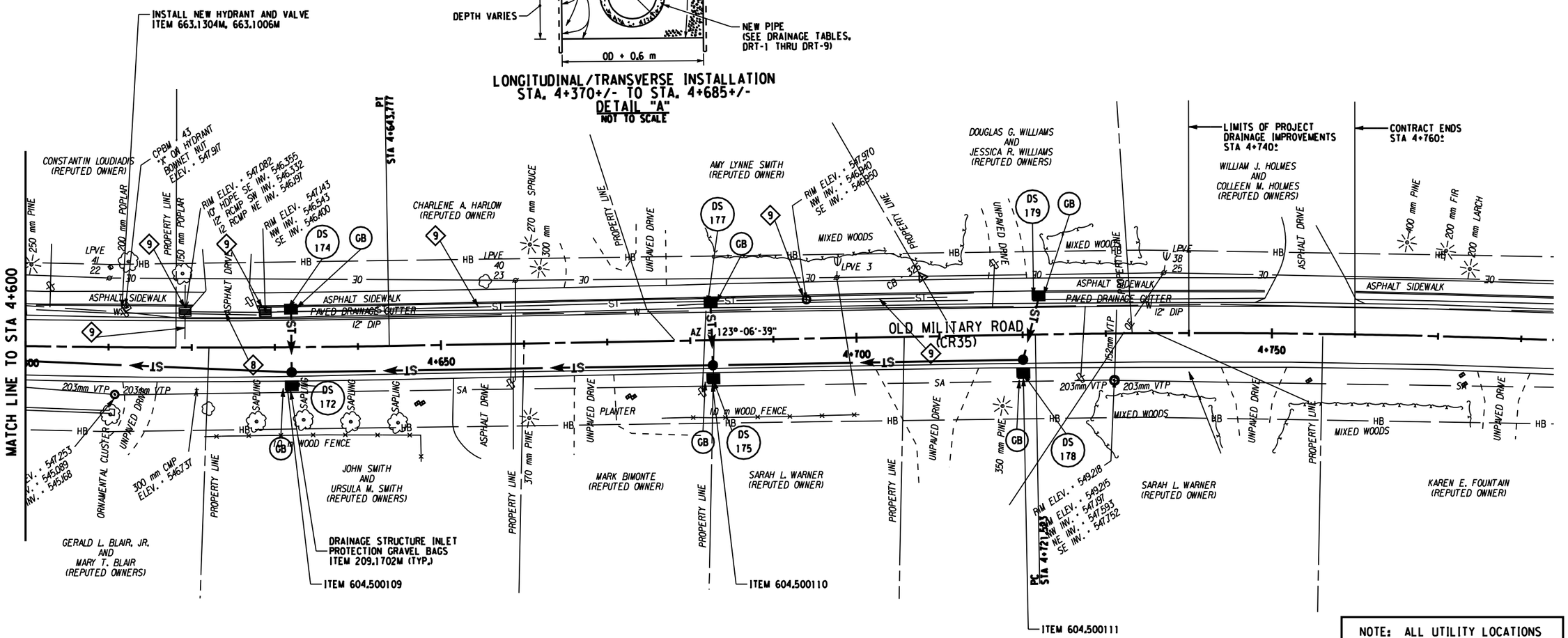
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		91	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY





LONGITUDINAL/TRANSVERSE INSTALLATION
STA. 4+370+/- TO STA. 4+685+/-
DETAIL "A"
NOT TO SCALE



NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

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NOTE:
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LEGEND:

- DS = PROPOSED DRAINAGE STRUCTURE
- = REMOVAL OF EXISTING DRAINAGE STRUCTURE
- DWY = DRIVEWAY NUMBER
- GB = DRAINAGE STRUCTURE INLET PROTECTION GRAVEL BAG
- —STO→ = STONE CHECK DAM

5 0 5 10 15 20 25 m
SCALE

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL PLANS
(SHEET 19 OF 19)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.cph.gnp.22	ONE	AUGUST 2011	GP-19

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		92	205

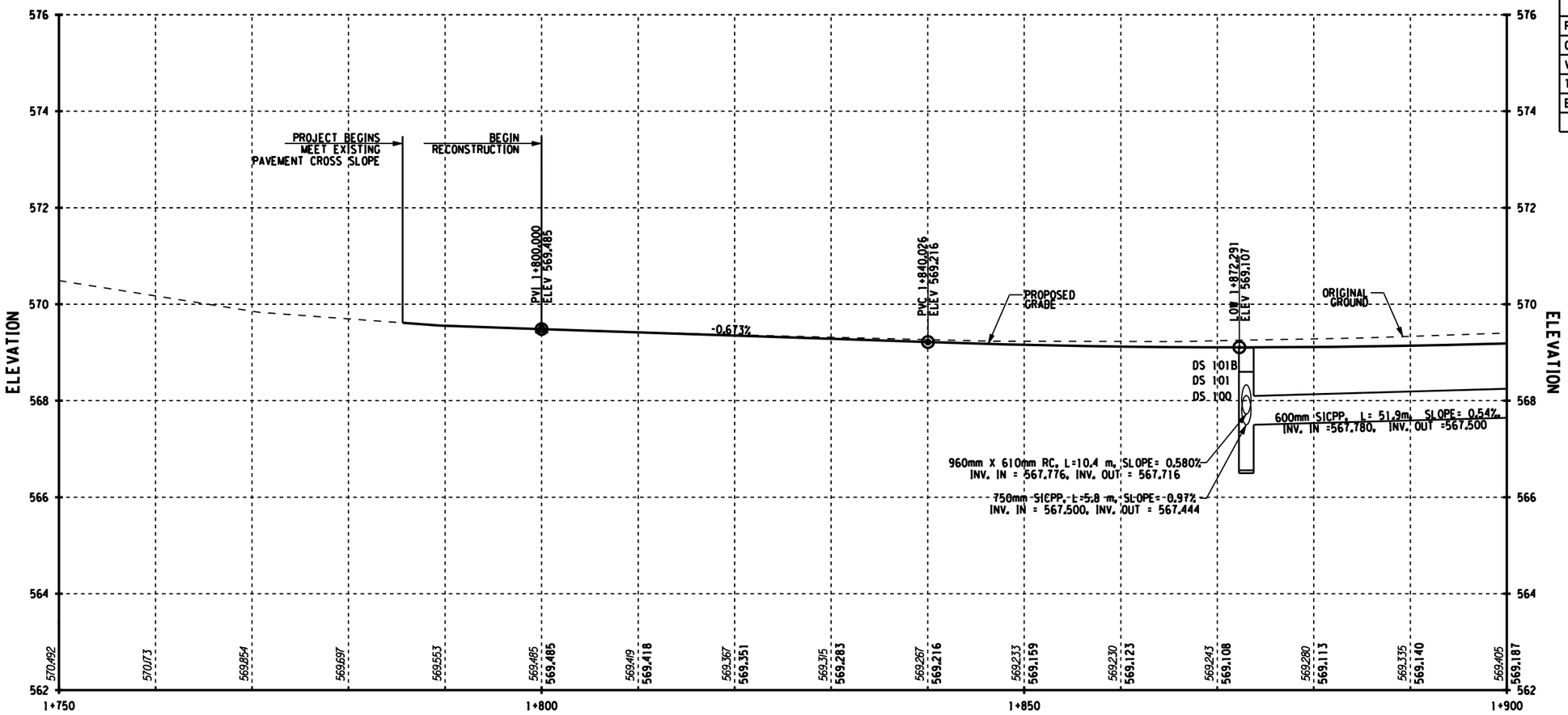
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY

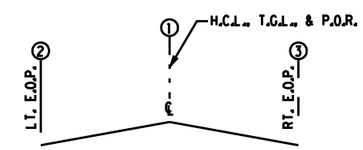


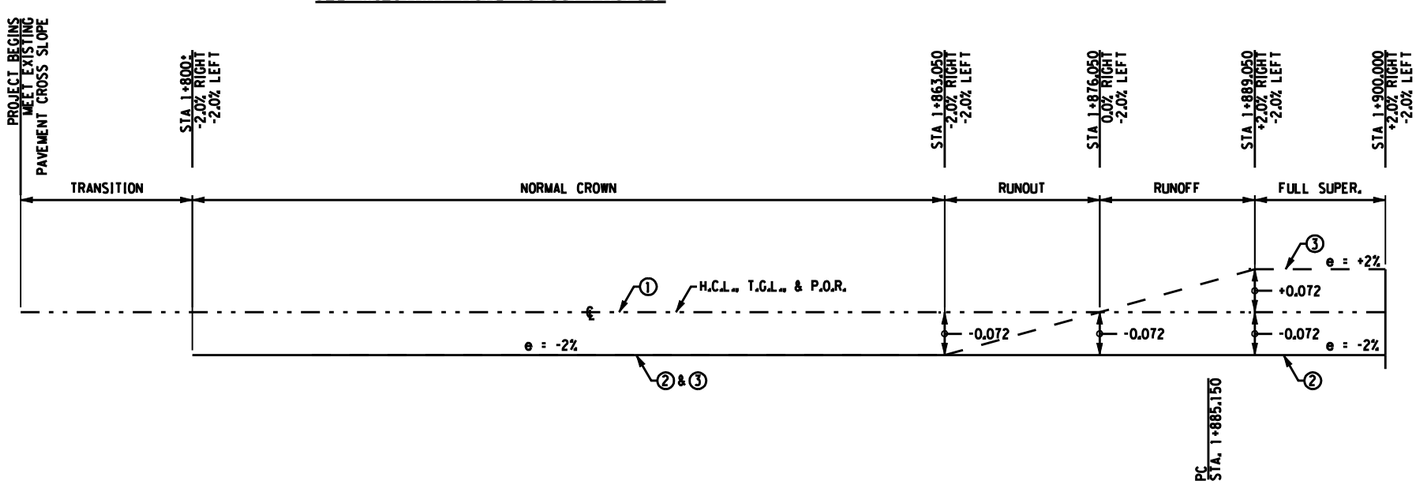
OLD MILITARY ROAD (CR35) PROFILE

DRAINAGE LEGEND

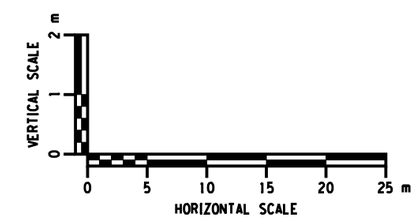
PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —





SUPERELEVATION



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 1+750.000 TO STA. 1+900.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

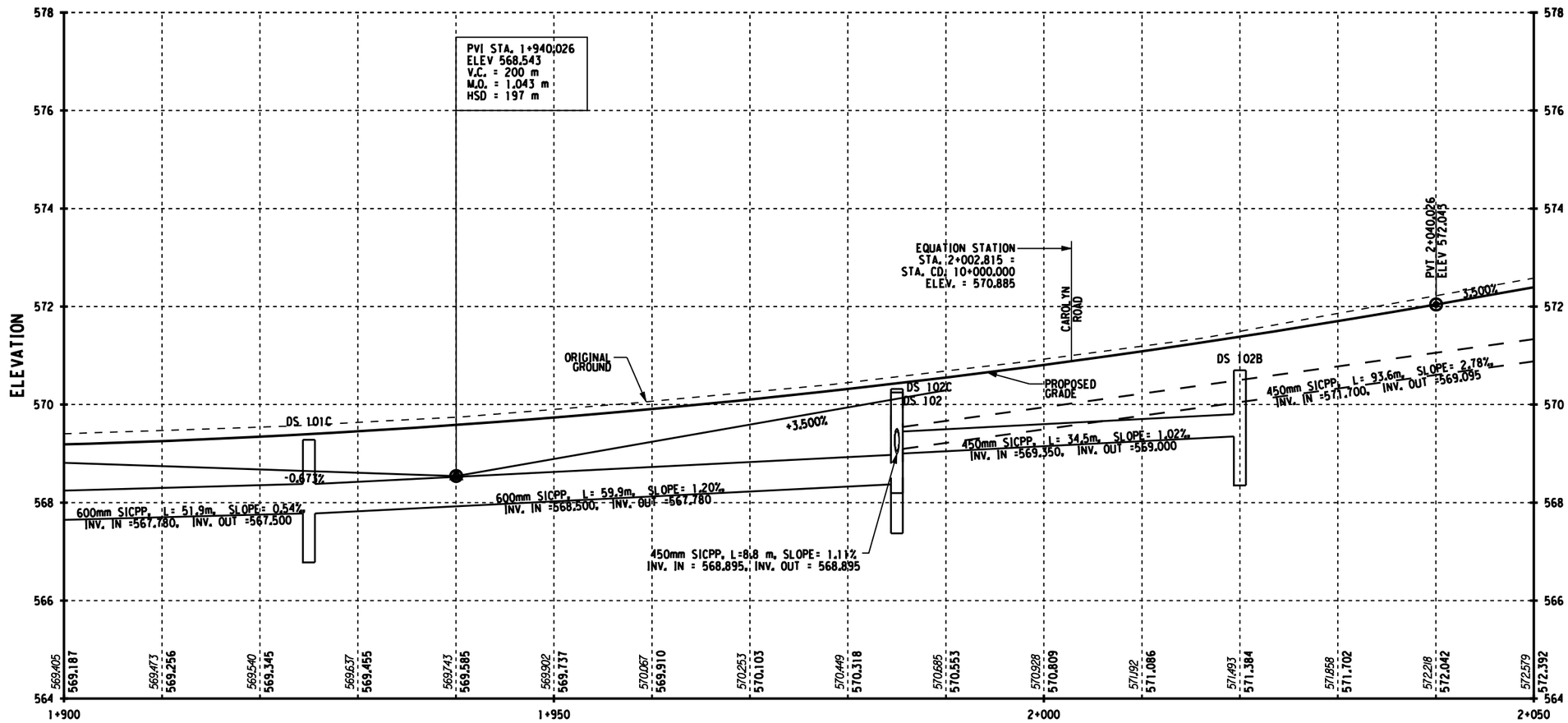
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_01	ONE	AUGUST 2011	PR-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

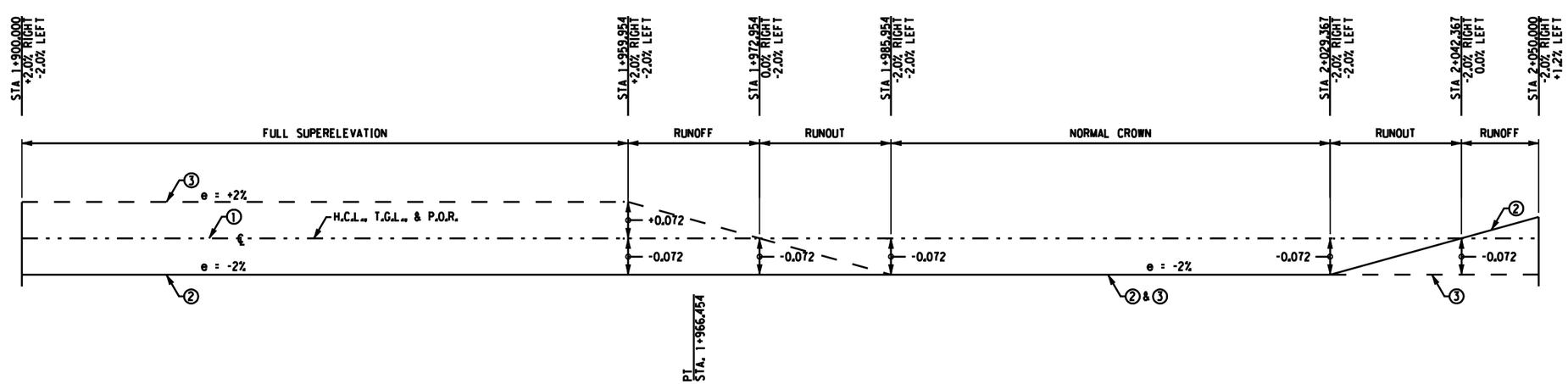
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		93	205

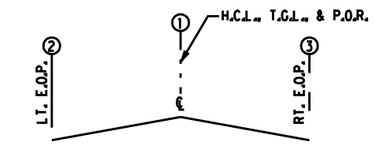
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE



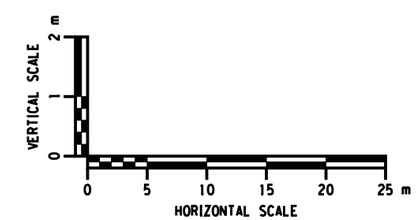
SUPERELEVATION



DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 1+900.000 TO STA. 2+050.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

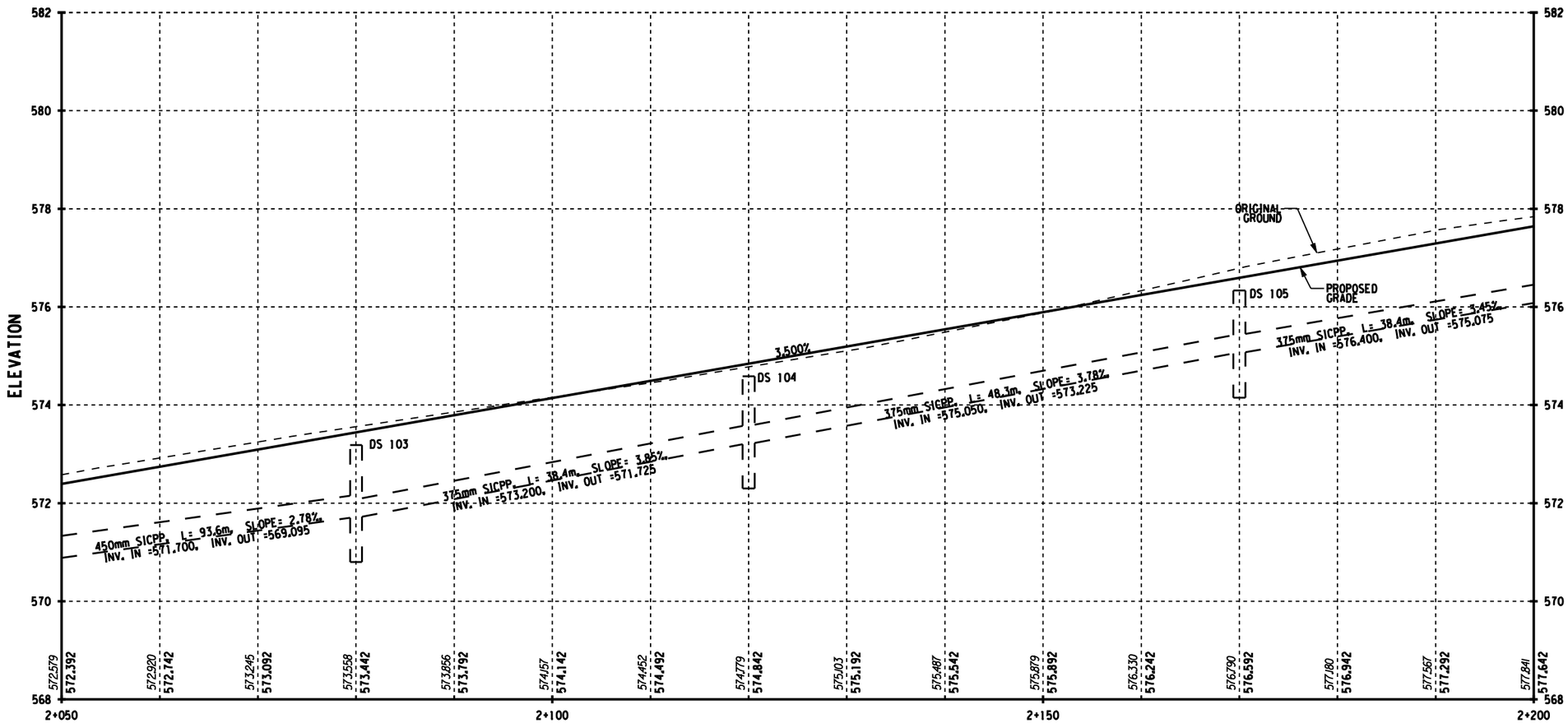
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO.02	ONE	AUGUST 2011	PR-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

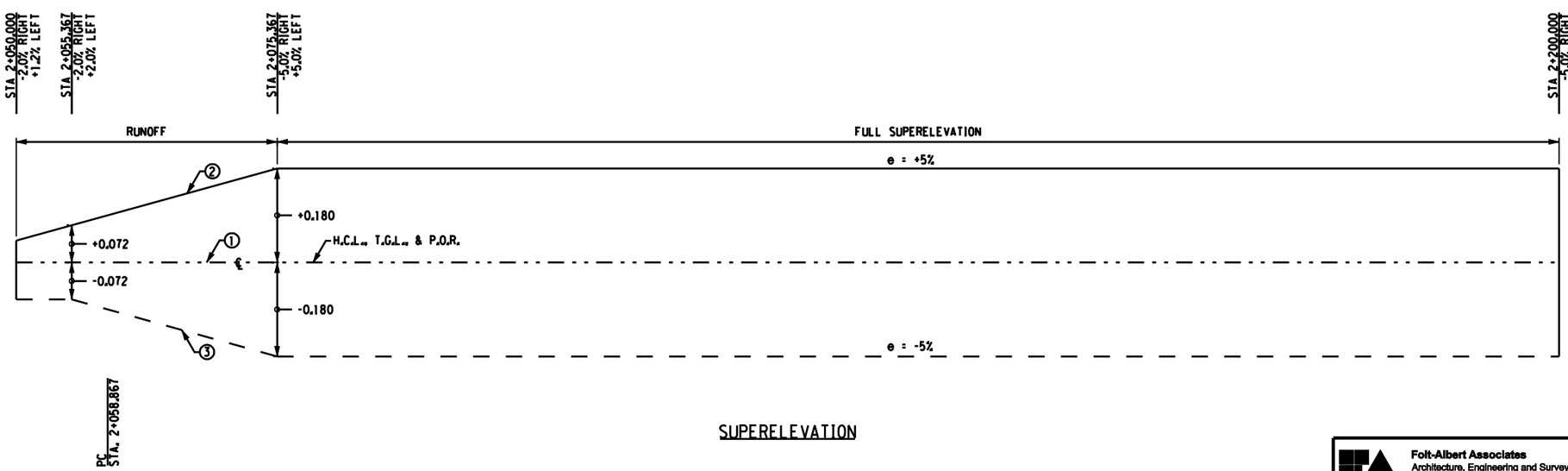
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		94	205

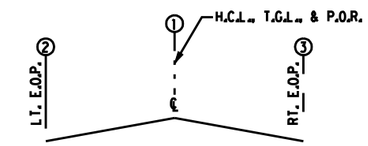
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE



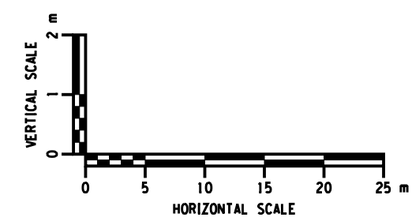
SUPERELEVATION



DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 2+050.000 TO STA. 2+200.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_03	ONE	AUGUST 2011	PR-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		95	205

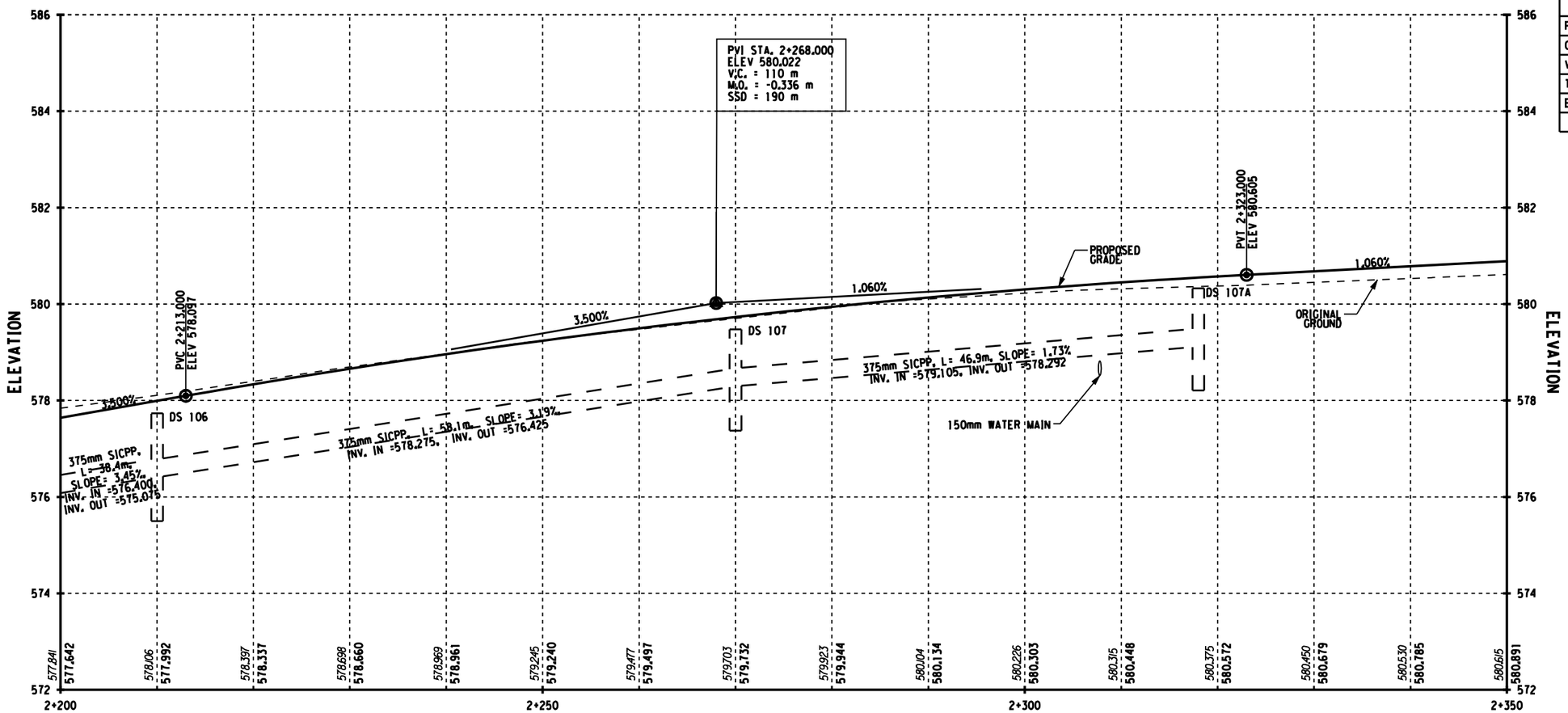
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

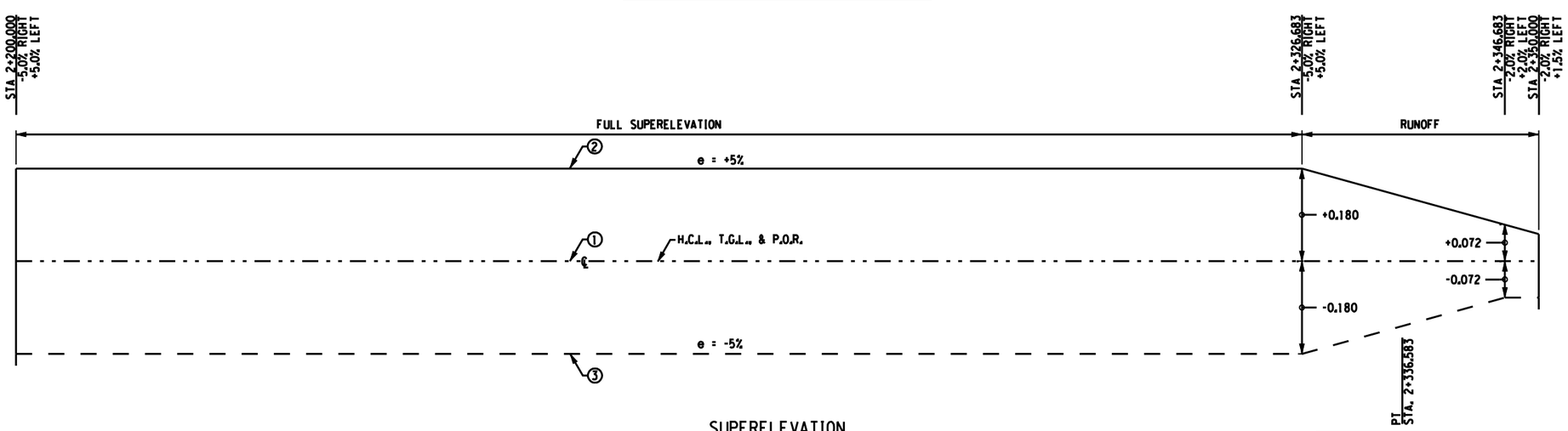
VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

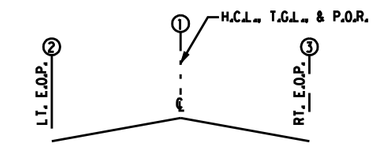
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE



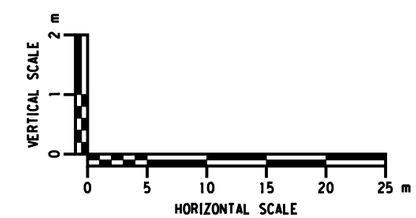
SUPERELEVATION



DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 2+200.000 TO STA. 2+350.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

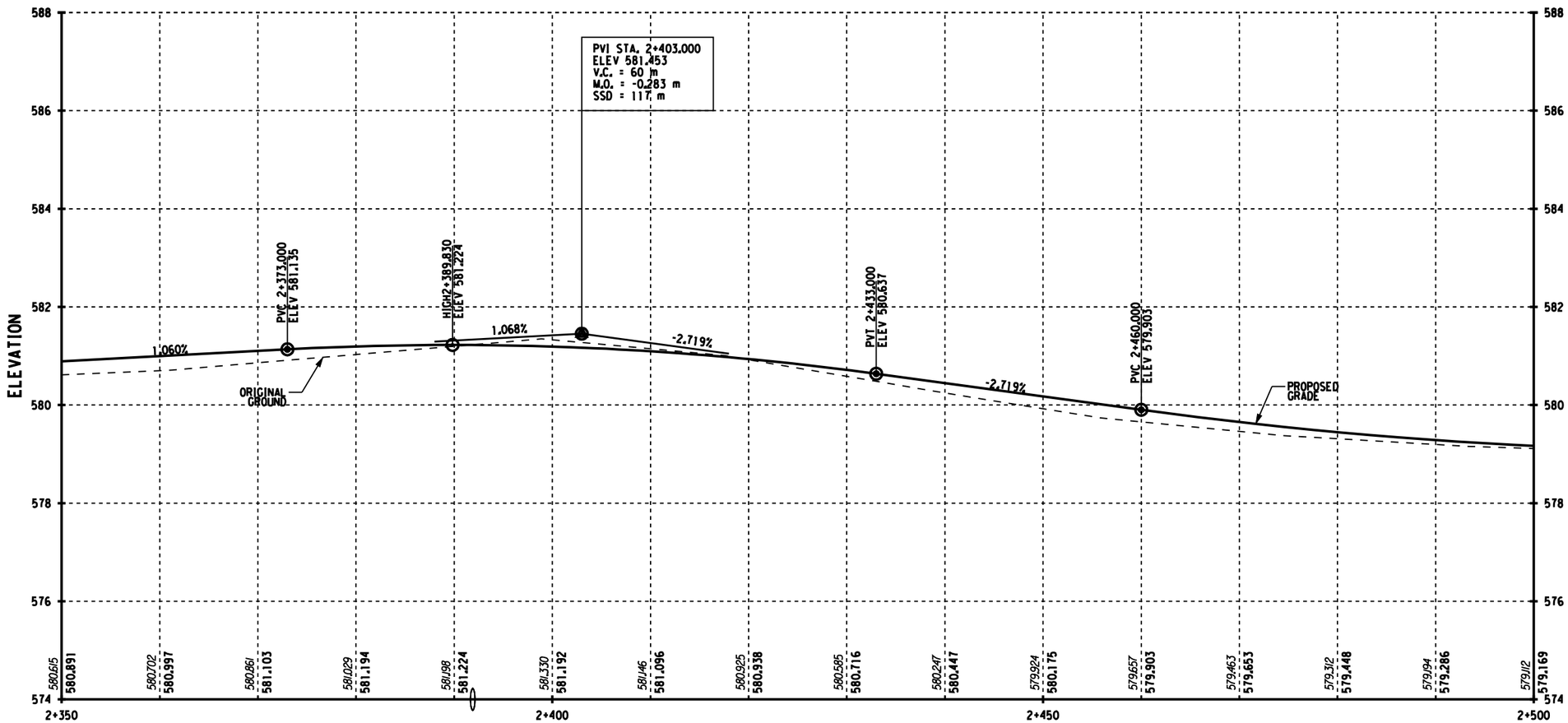
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO.04	ONE	AUGUST 2011	PR-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

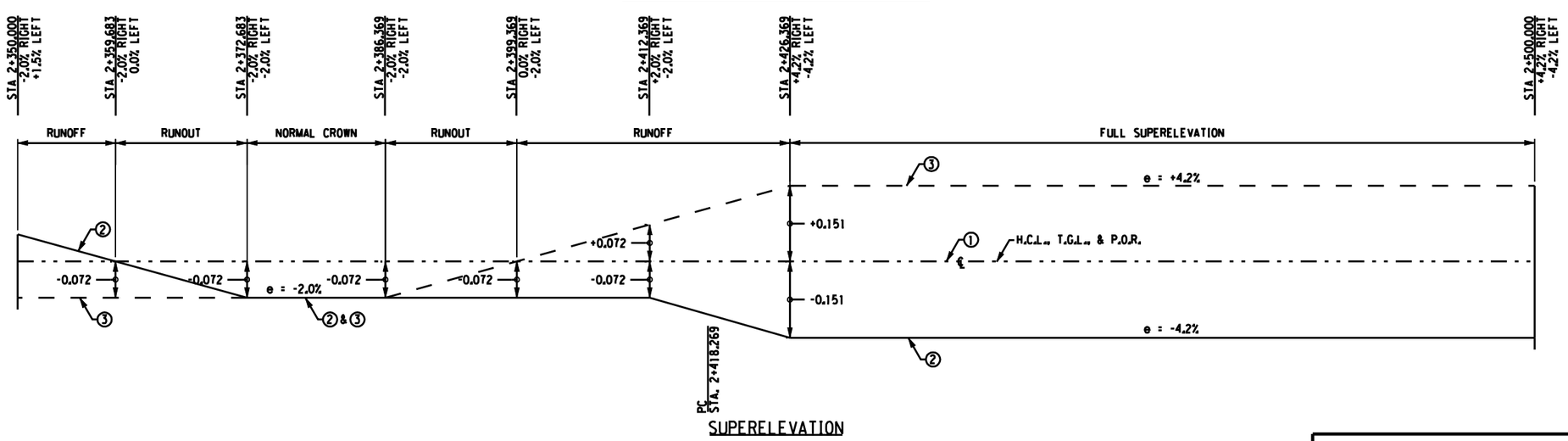
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		96	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE

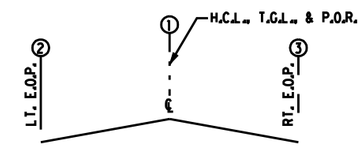


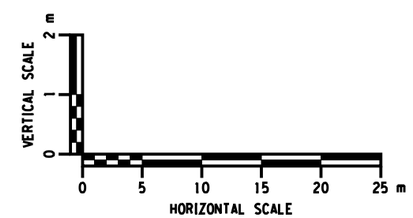
SUPERELEVATION

DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —





ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 2+350.000 TO STA. 2+500.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_05	ONE	AUGUST 2011	PR-5

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		97	205

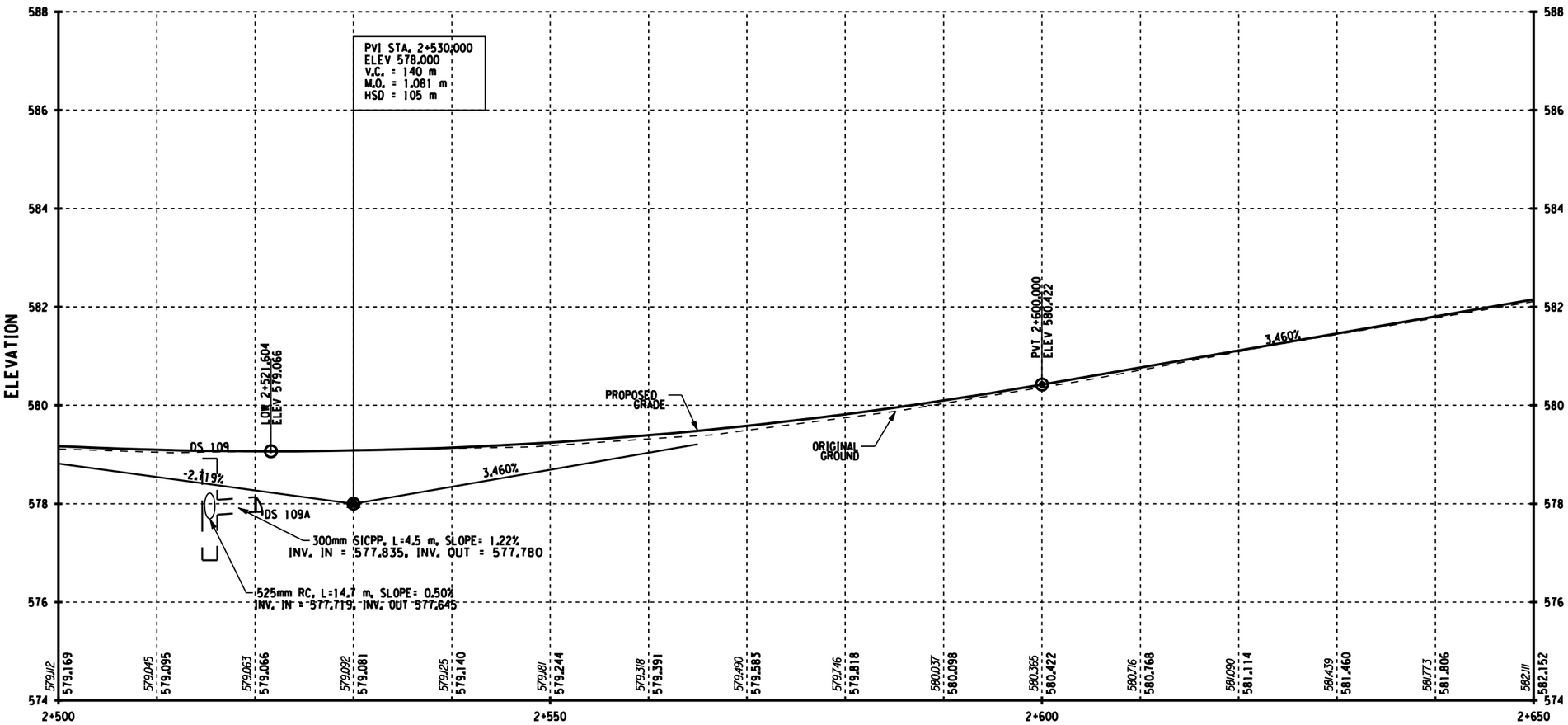
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

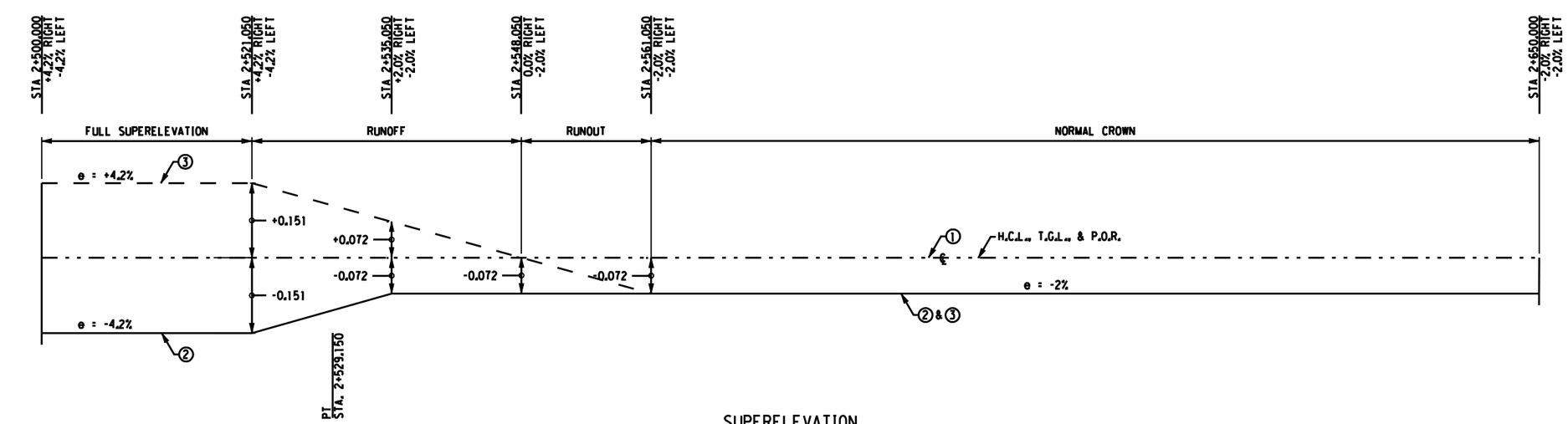
VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

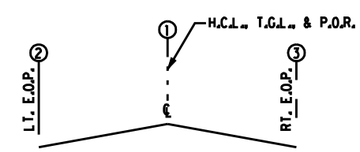
ESSEX COUNTY

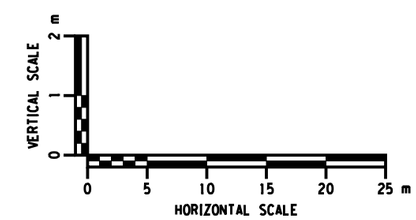


OLD MILITARY ROAD (CR 35) PROFILE



SUPERELEVATION





DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 2+500.000 TO STA. 2+650.000

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

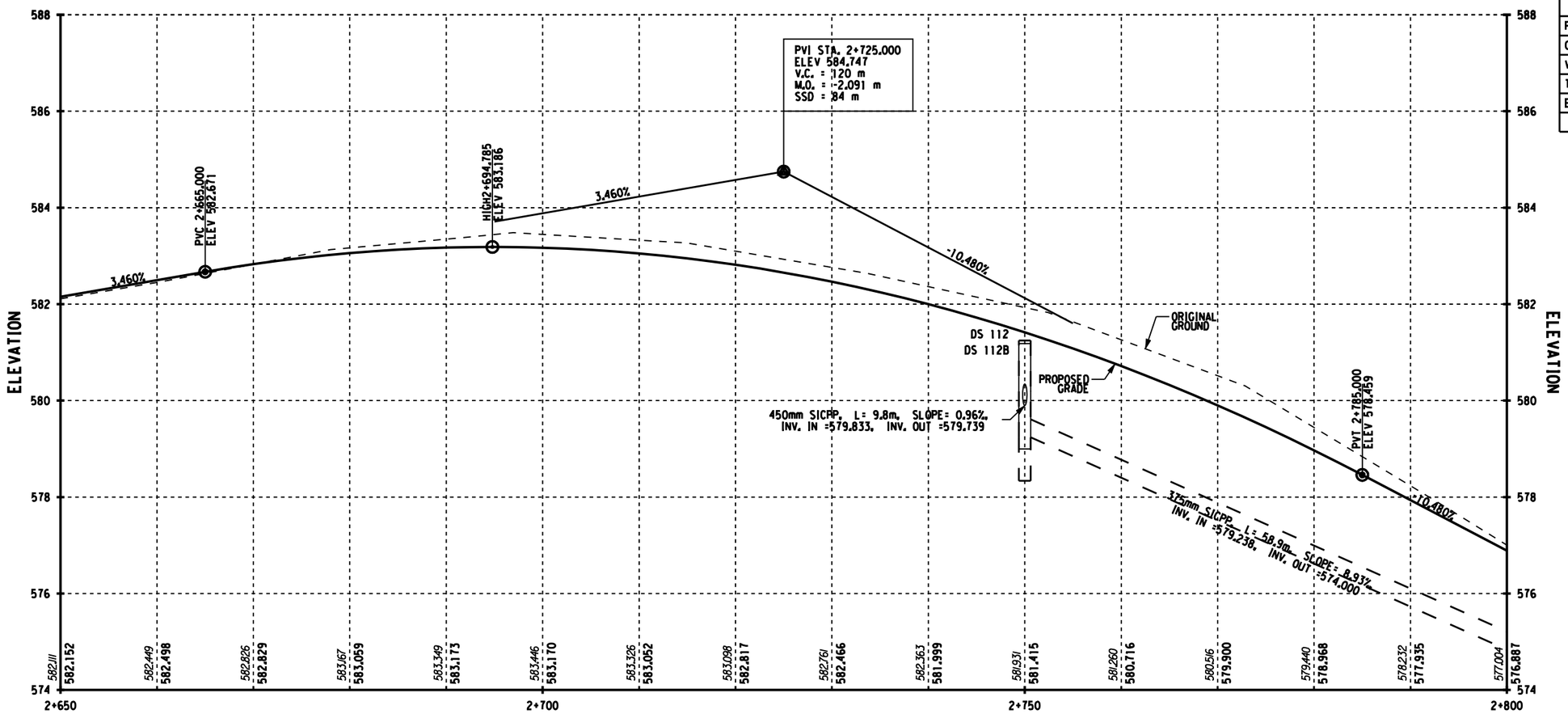
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_06	ONE	AUGUST 2011	PR-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

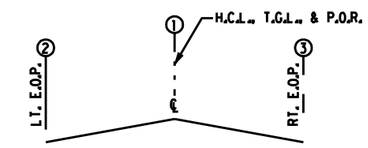
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		98	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



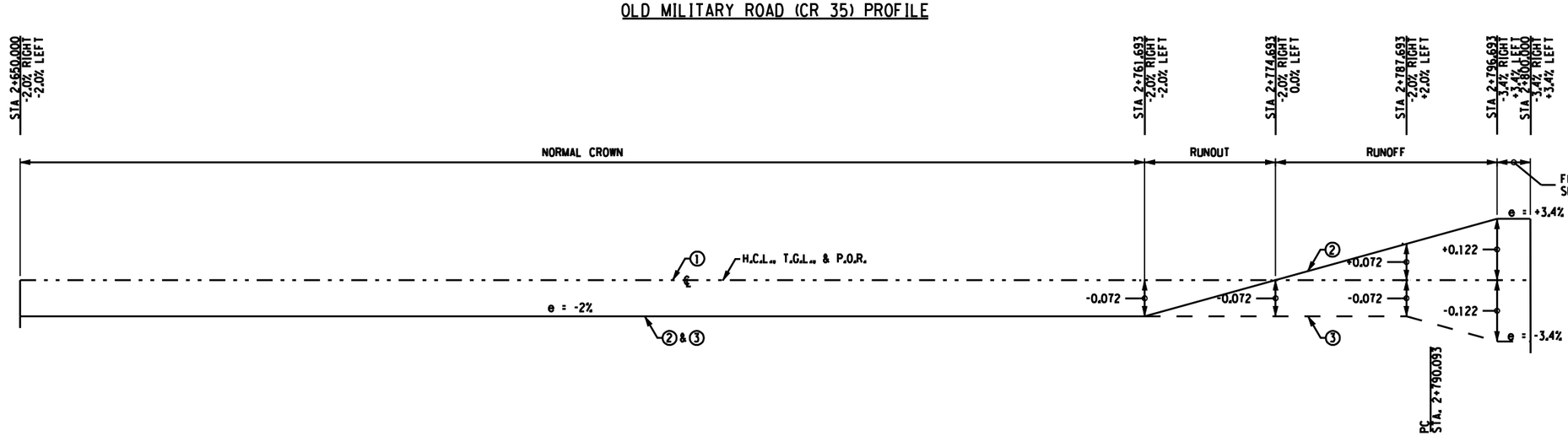
OLD MILITARY ROAD (CR 35) PROFILE



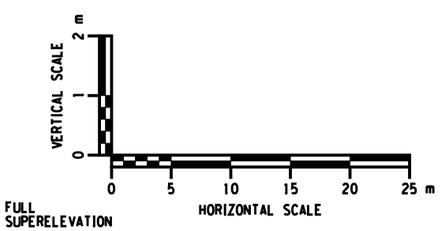
DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



SUPERELEVATION



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 2+650.000 TO STA. 2+800.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_07	ONE	AUGUST 2011	PR-7

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		99	205

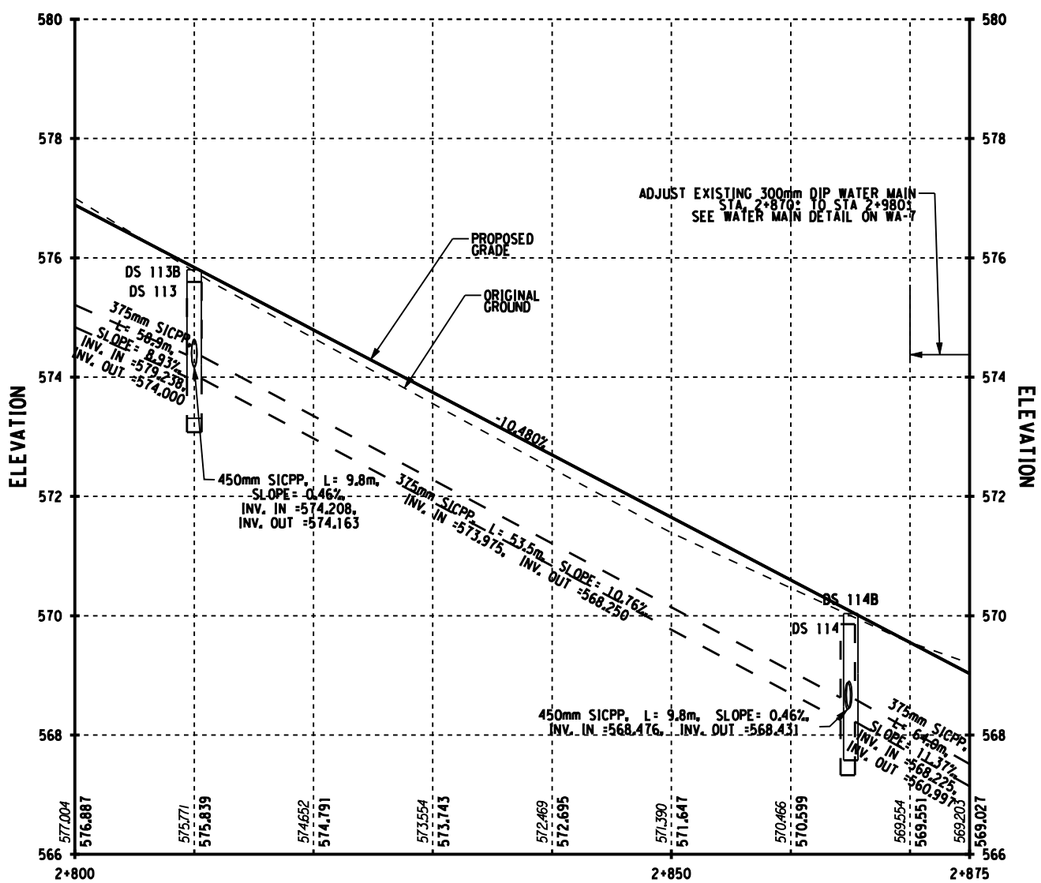
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

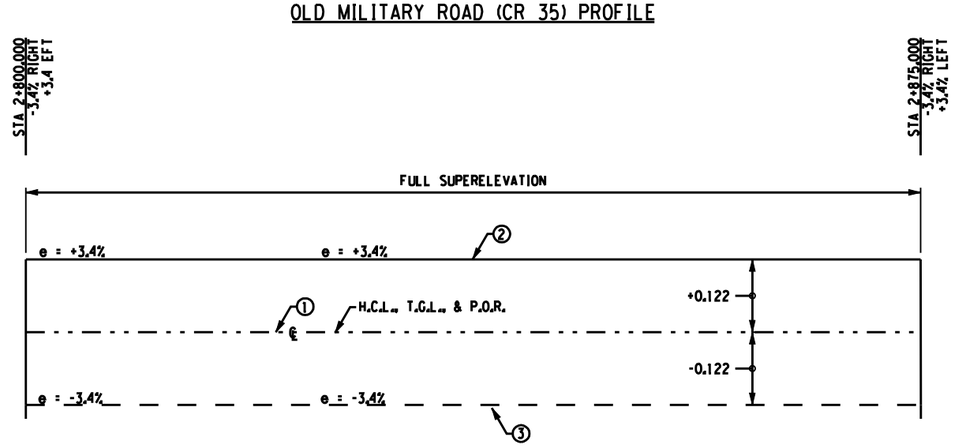
VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE

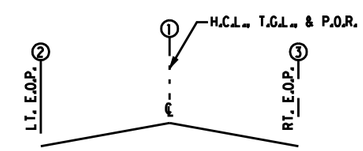


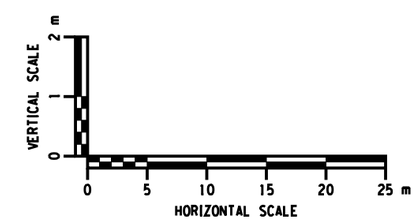
SUPERELEVATION

DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —





ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 2+800.000 TO STA. 2+875.000

Essex County NY

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

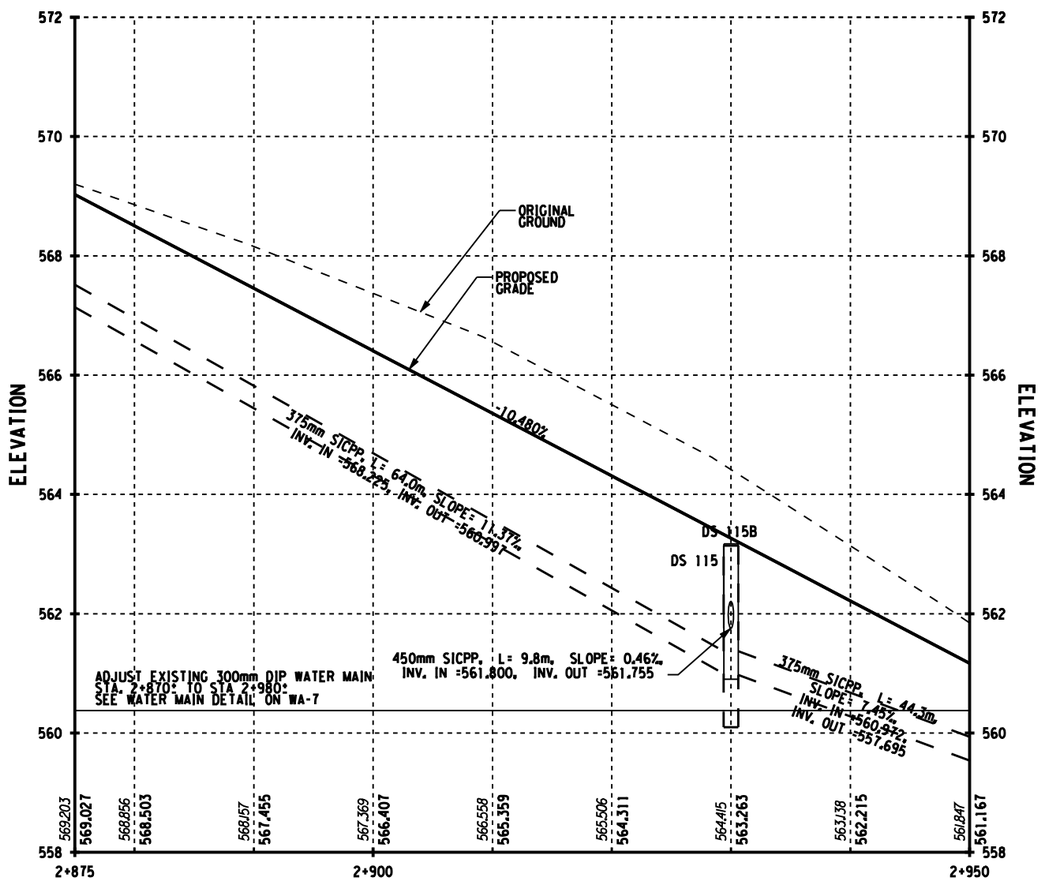
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_08	ONE	AUGUST 2011	PR-8

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

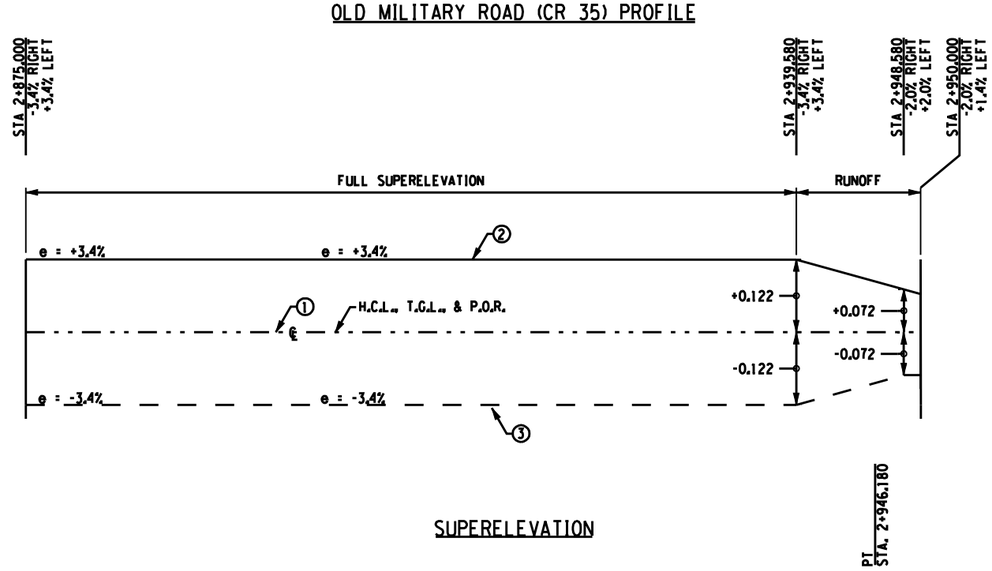
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		100	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE

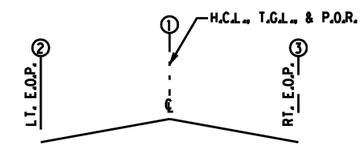


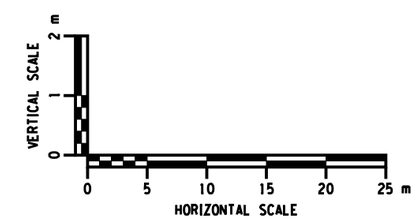
SUPERELEVATION

DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —





ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 2+875.000 TO STA. 2+950.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_09	ONE	AUGUST 2011	PR-9

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		101	205

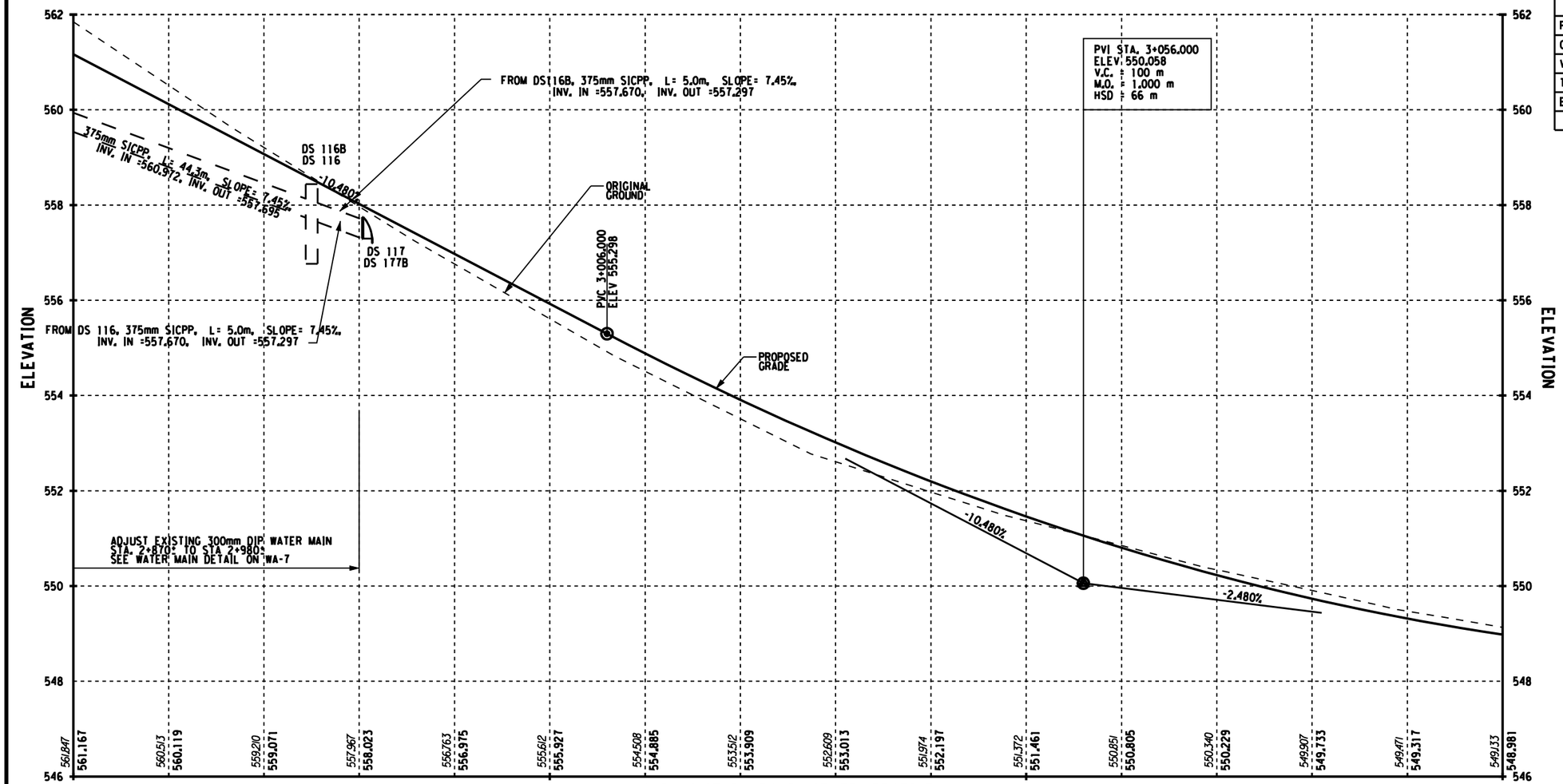
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

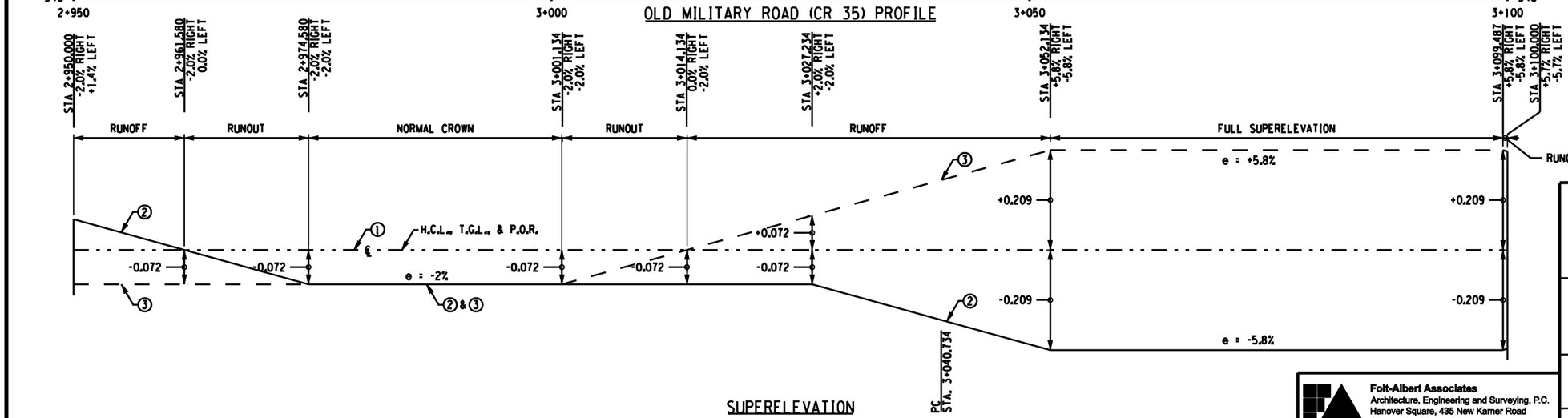
VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

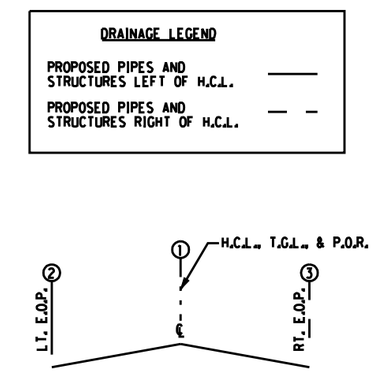
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE



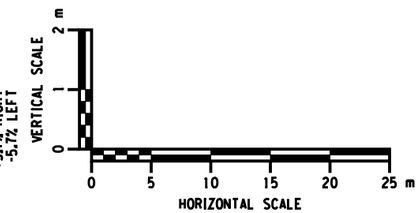
SUPERELEVATION



DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 2+950.000 TO STA. 3+100.000

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

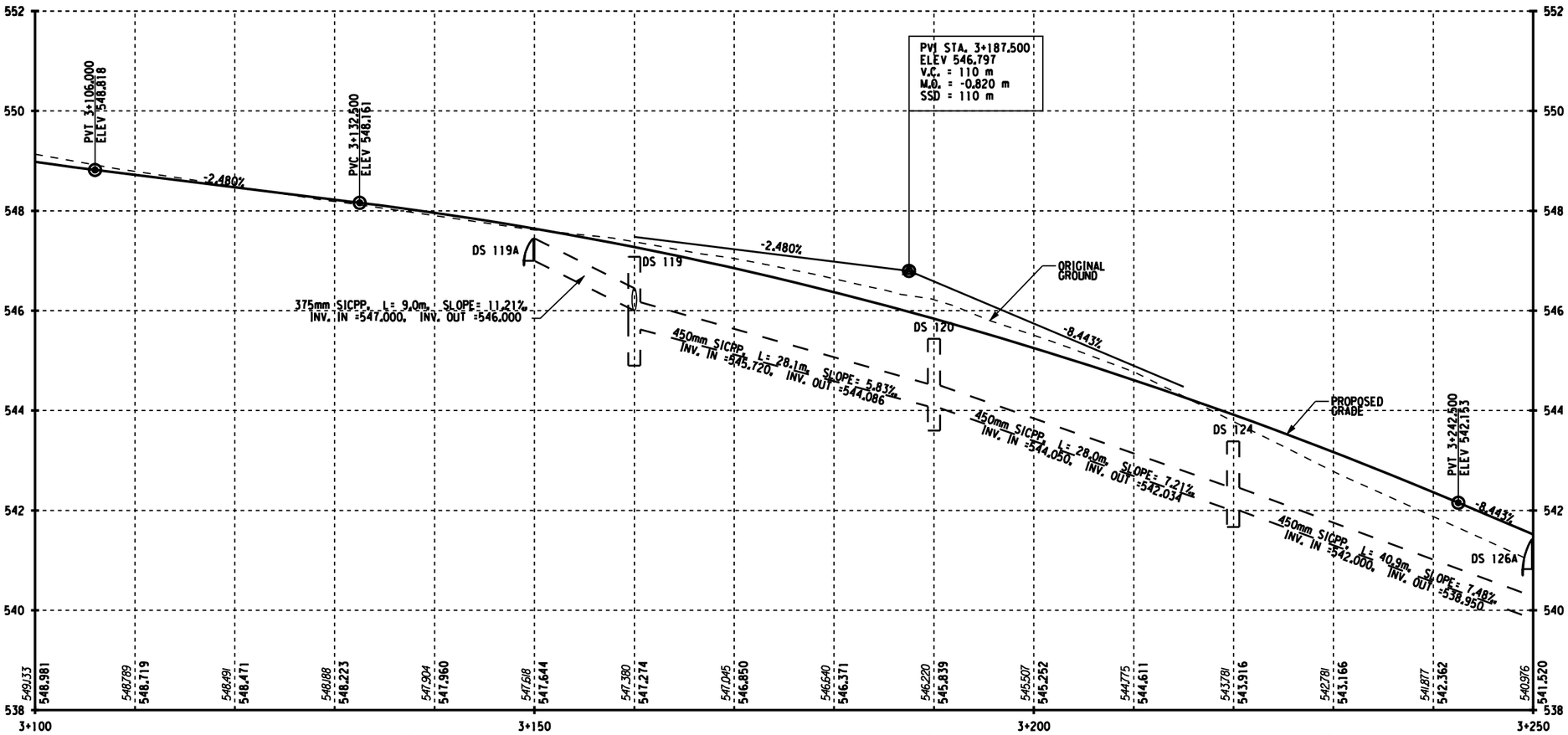
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_10	ONE	AUGUST 2011	PR-10

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

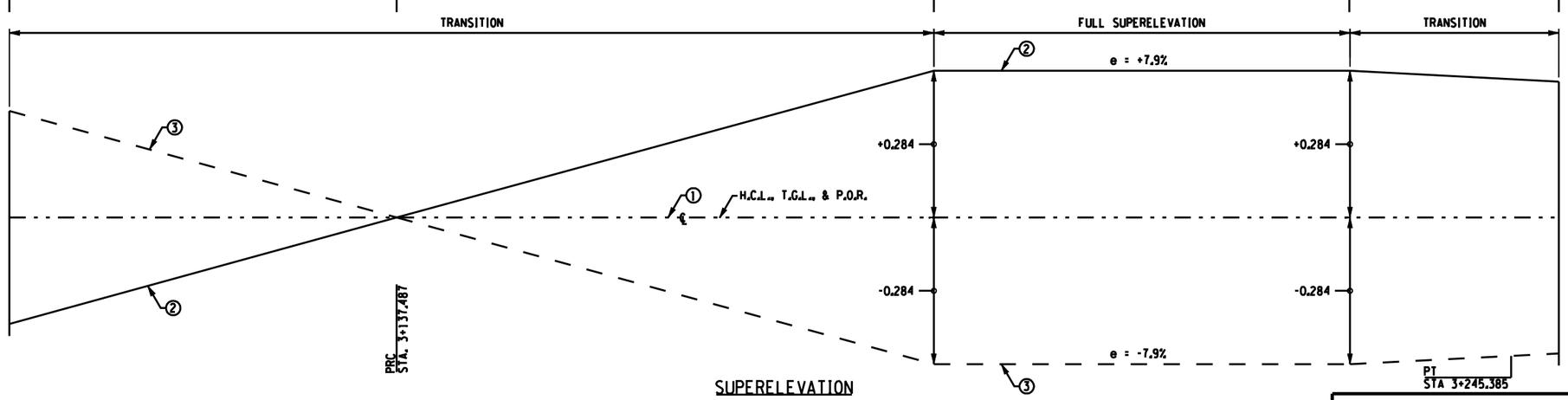
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		102	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE

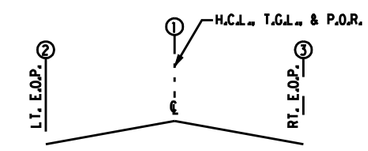


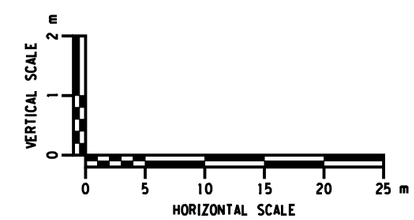
SUPERELEVATION

DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —





ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 3+100.000 TO STA. 3+250.000

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_11	ONE	AUGUST 2011	PR-11

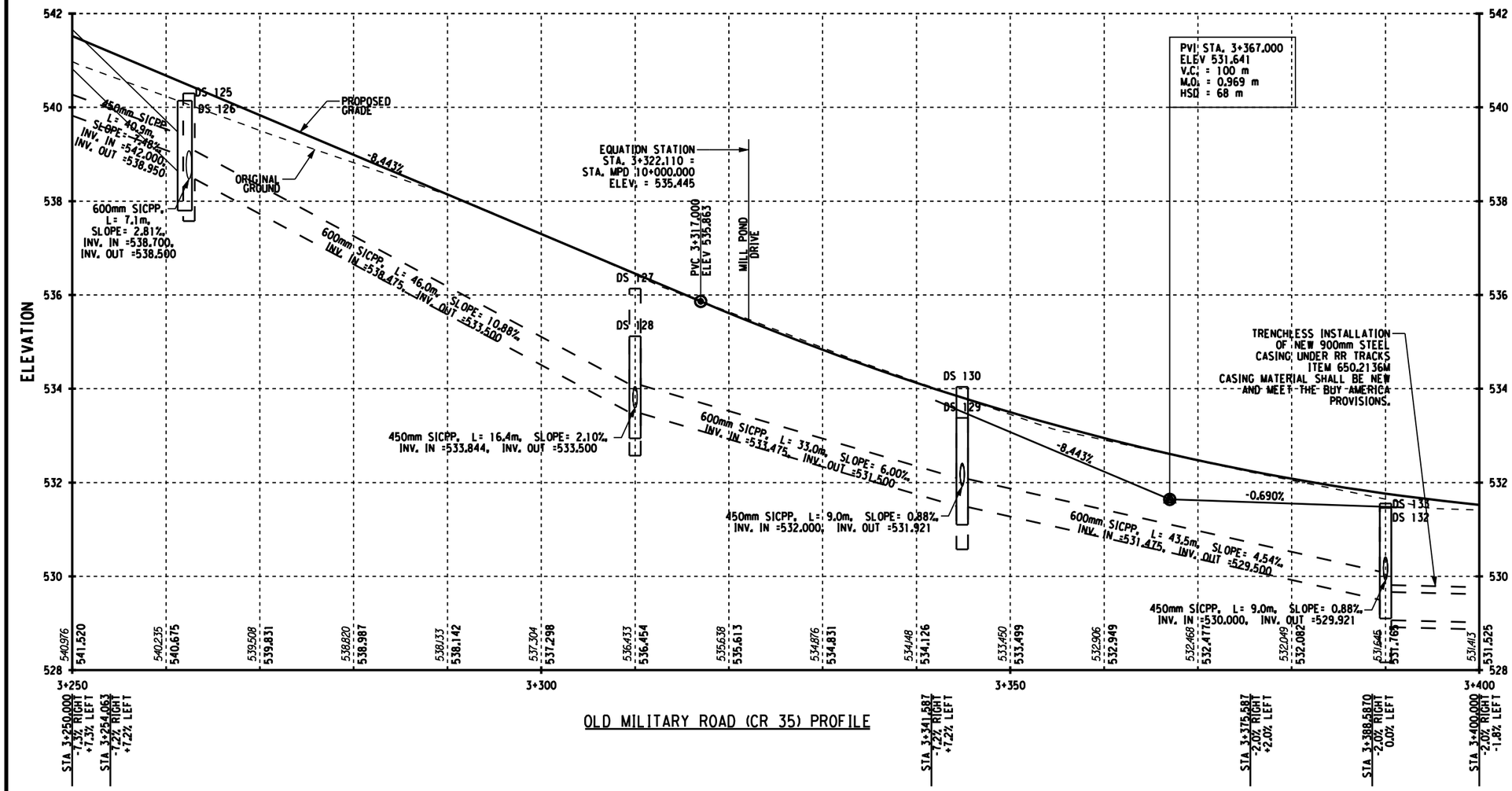
Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

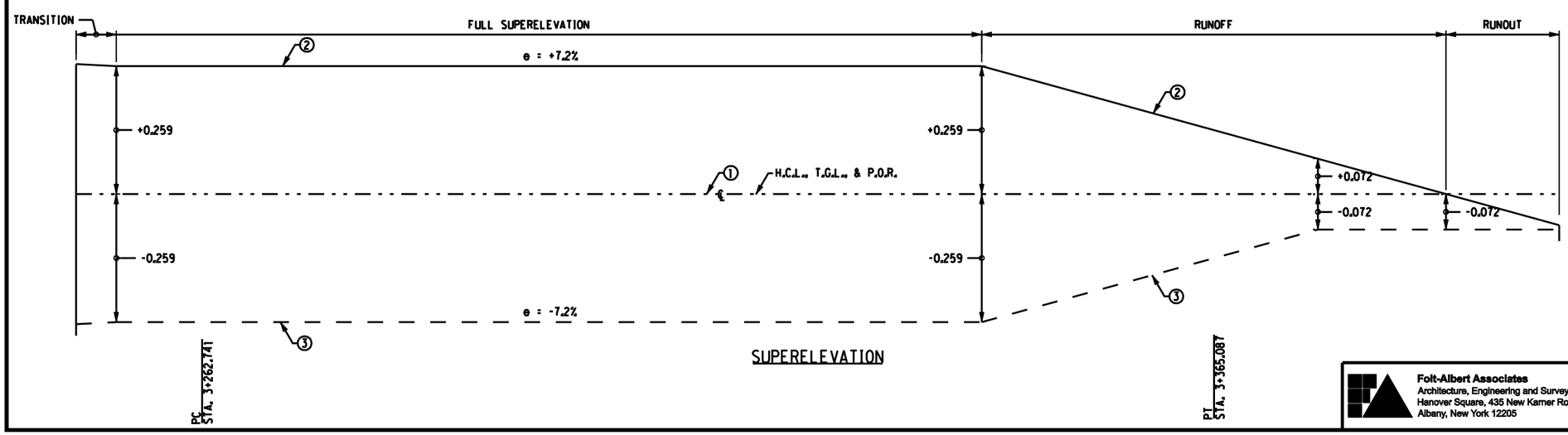
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		103	205

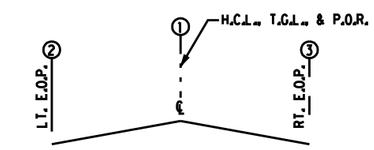
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

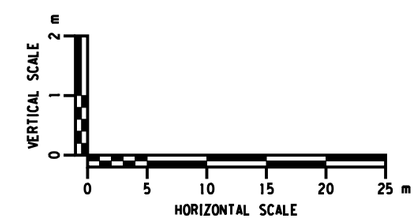


OLD MILITARY ROAD (CR 35) PROFILE



SUPERELEVATION





DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 3+250.000 TO STA. 3+400.000

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

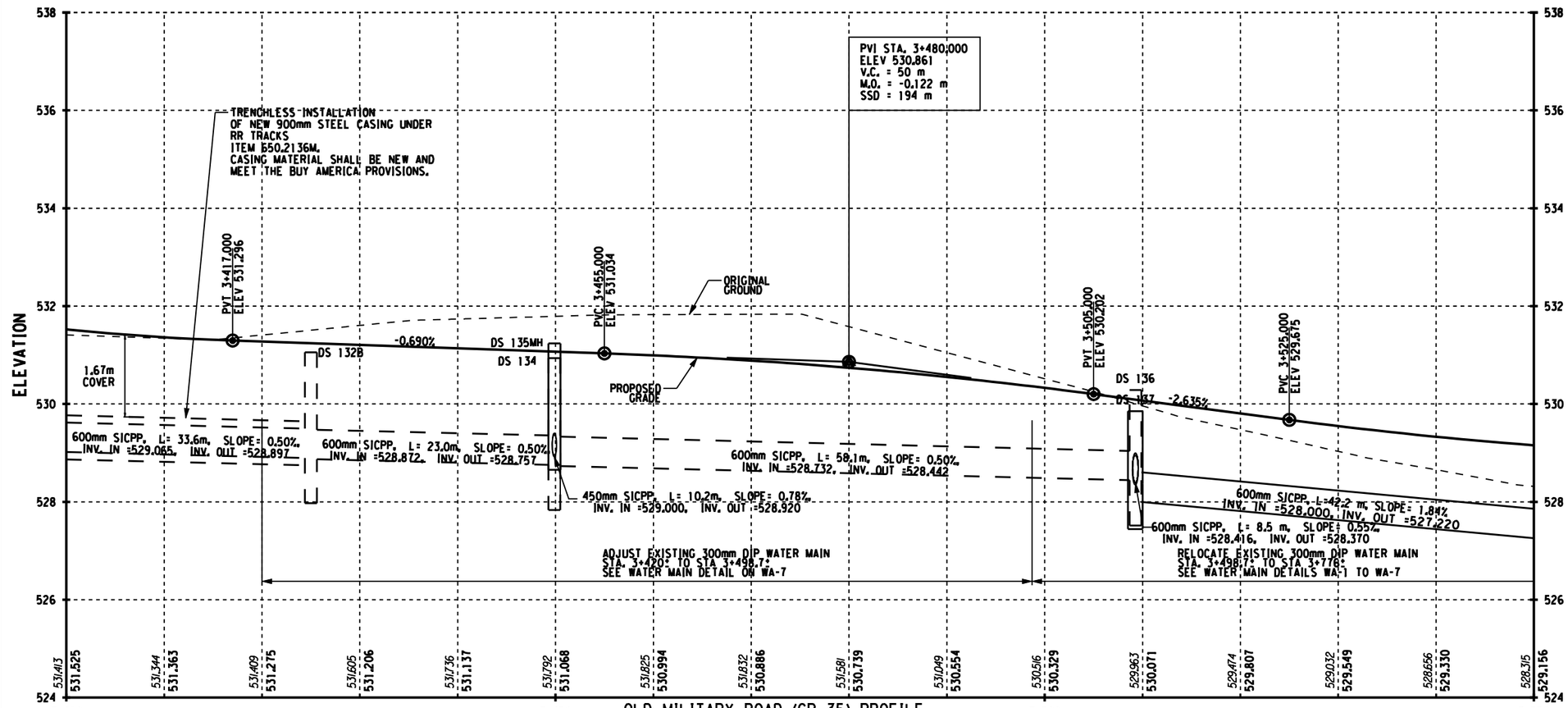
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_12	ONE	AUGUST 2011	PR-12

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

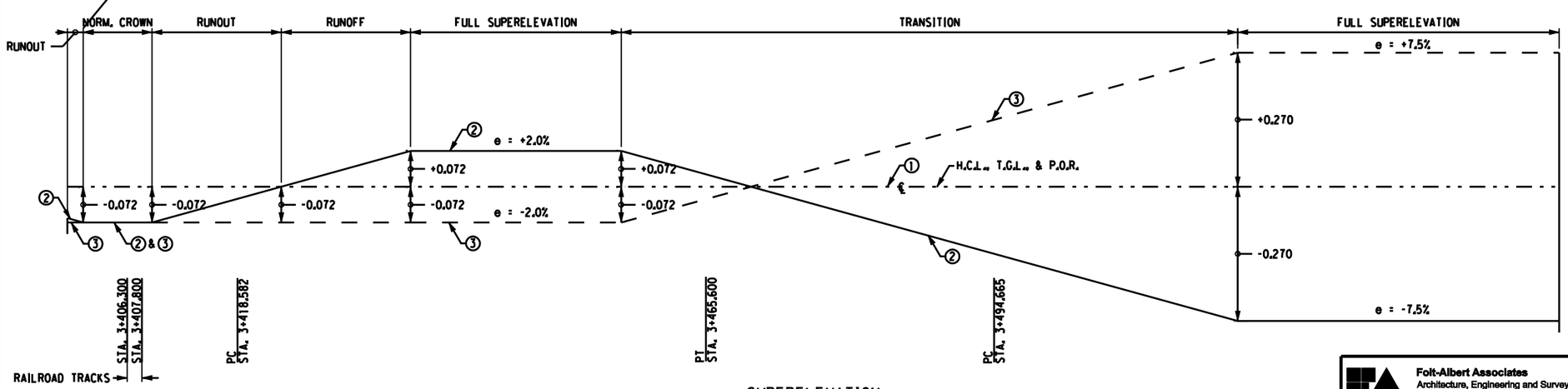
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		104	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE

STA. 3+400.000 -2.0% RIGHT -1.8% LEFT
STA. 3+401.587 -2.0% RIGHT -2.0% LEFT
STA. 3+410.000 -2.0% RIGHT -2.0% LEFT
STA. 3+423.000 -2.0% RIGHT 0.0% LEFT
STA. 3+436.000 -2.0% RIGHT +2.0% LEFT
STA. 3+457.170 -2.0% RIGHT +2.0% LEFT
STA. 3+470.165 0.0% RIGHT 0.0% LEFT
STA. 3+519.165 +1.5% RIGHT -1.5% LEFT
STA. 3+550.000 +1.5% RIGHT -1.5% LEFT

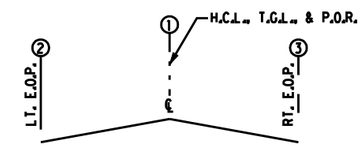


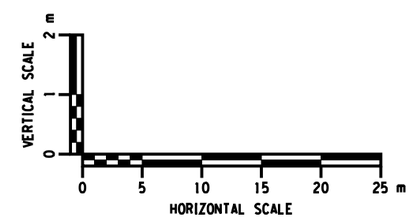
SUPERELEVATION

DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —





ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 3+400.000 TO STA. 3+550.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

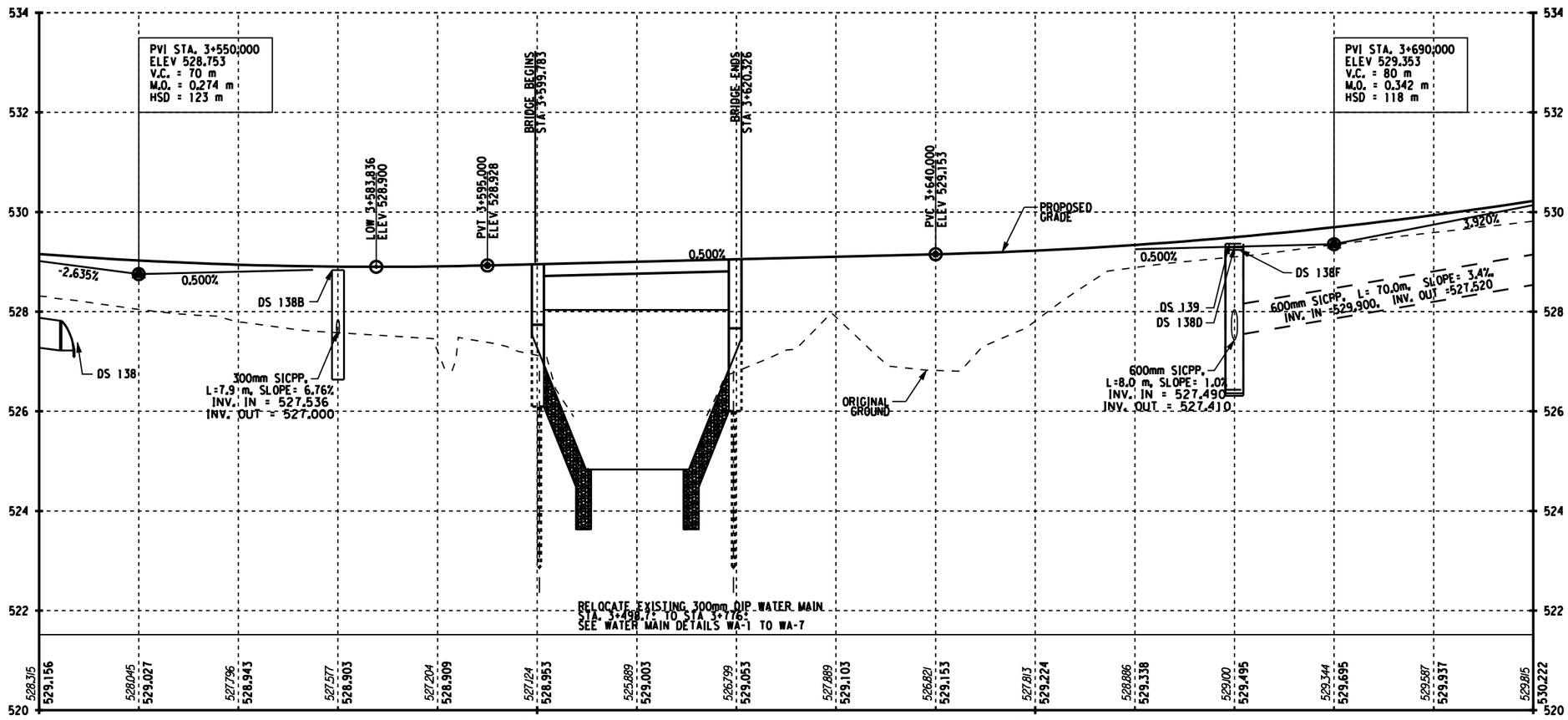
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_13	ONE	AUGUST 2011	PR-13

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

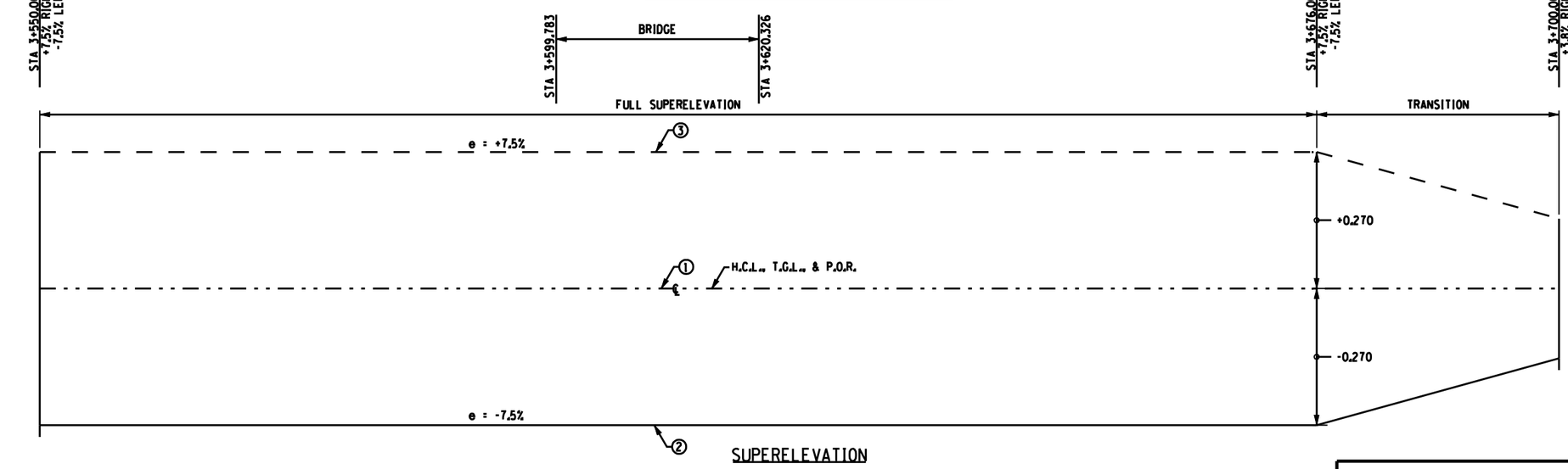
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		105	205

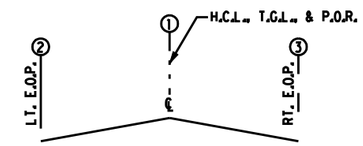
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



OLD MILITARY ROAD (CR 35) PROFILE



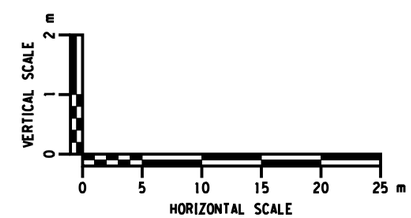
SUPERELEVATION



DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 3+550.000 TO STA. 3+700.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_14	ONE	AUGUST 2011	PR-14

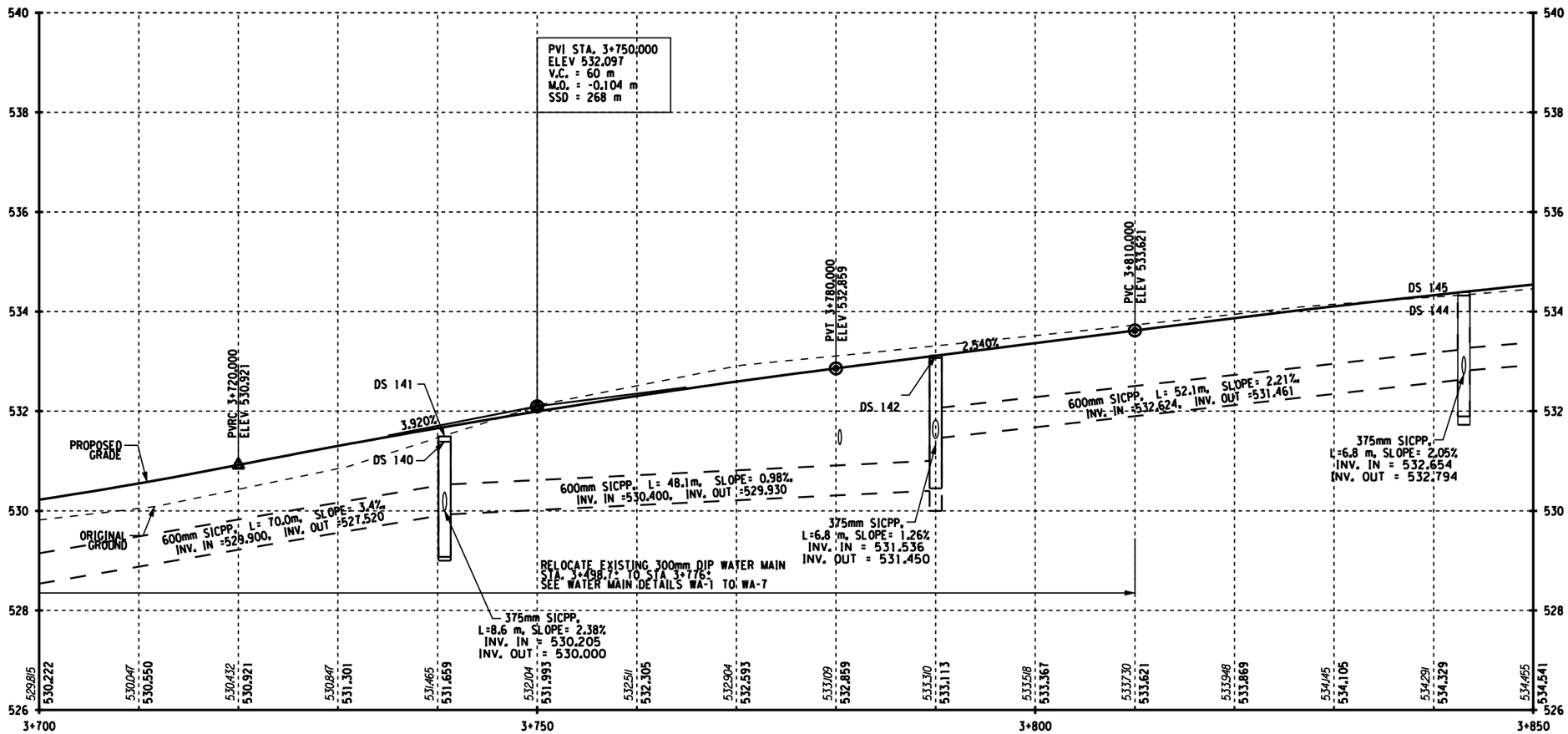
Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

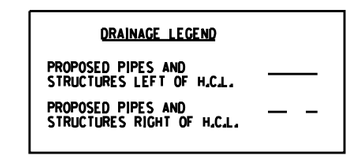
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

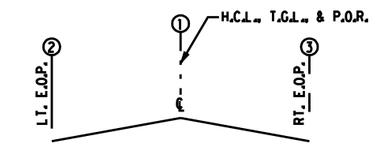
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		106	205

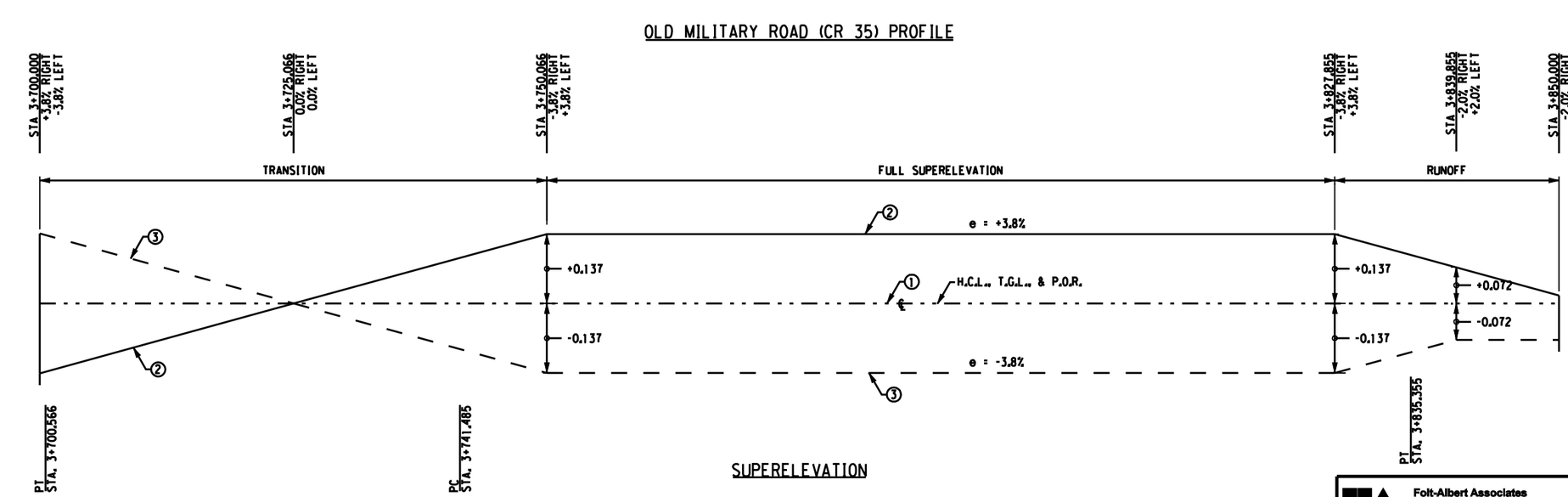
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



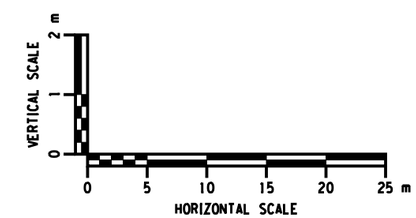
OLD MILITARY ROAD (CR 35) PROFILE







SUPERELEVATION



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 3+700.000 TO STA. 3+850.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

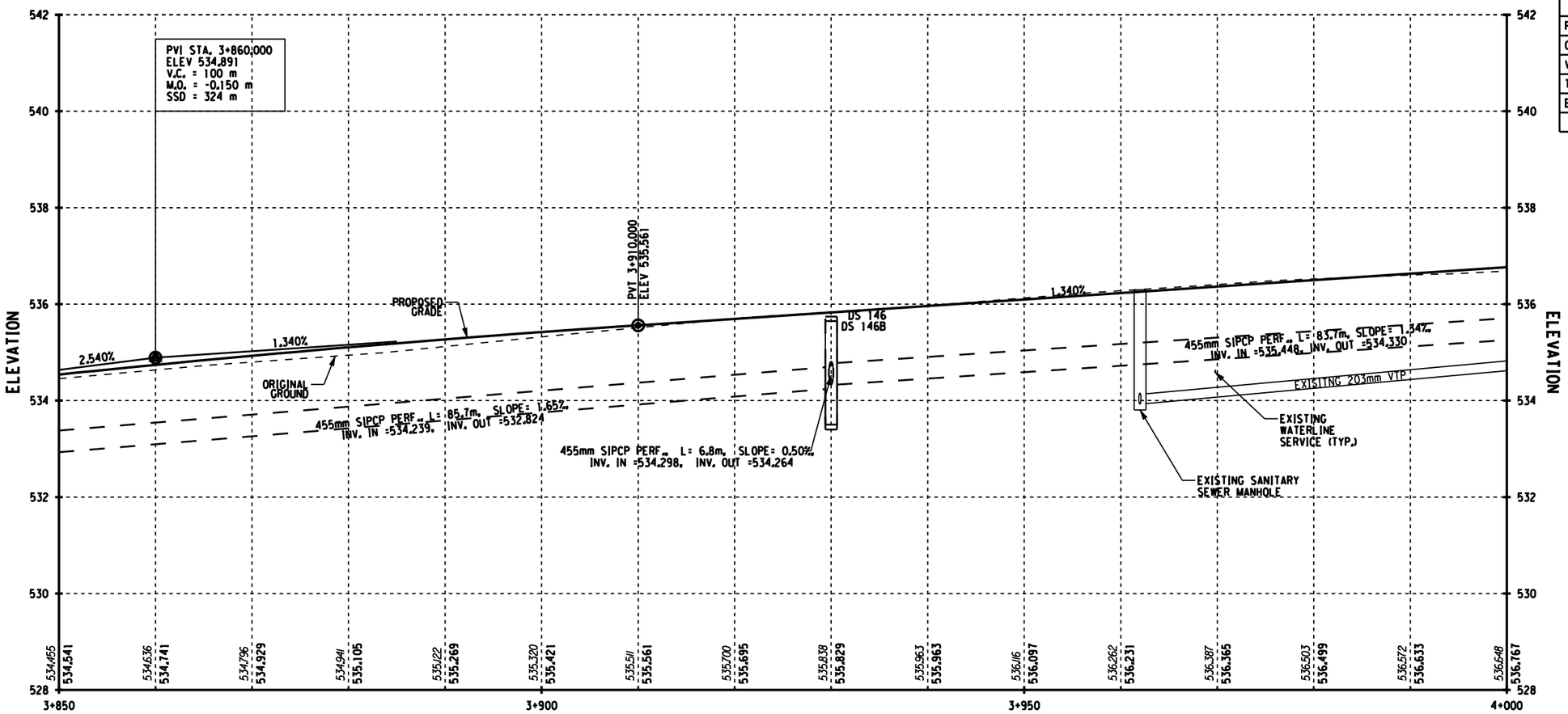
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_15	ONE	AUGUST 2011	PR-15

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

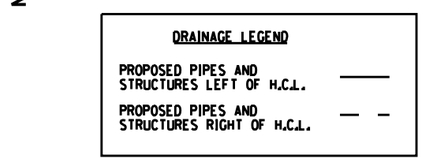
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

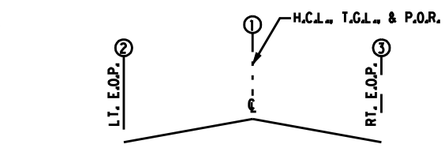
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		107	205

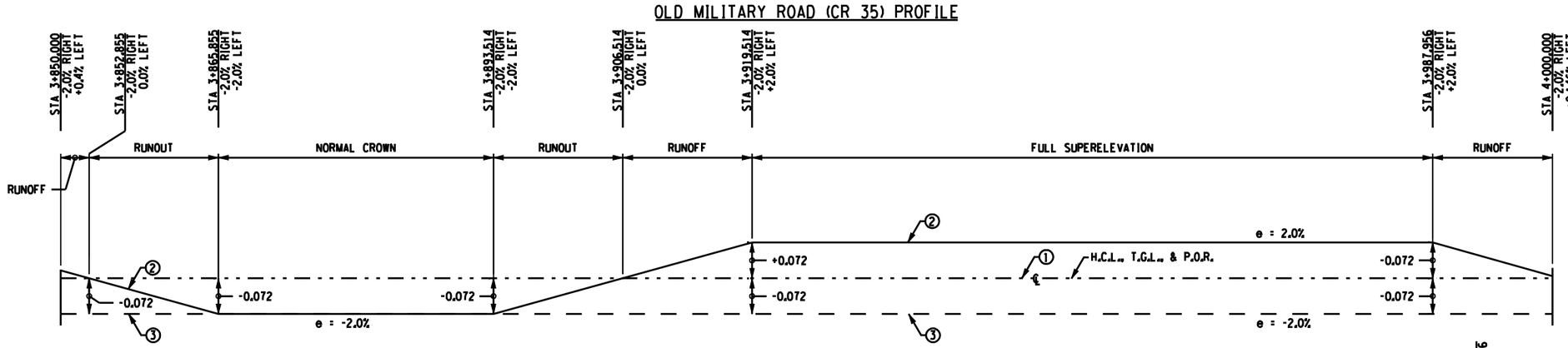
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



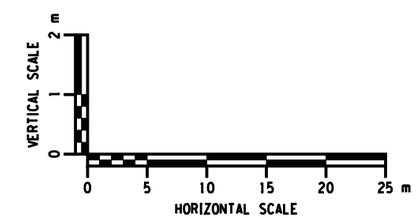
OLD MILITARY ROAD (CR 35) PROFILE







SUPERELEVATION



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 3+850.000 TO STA. 4+000.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_16	ONE	AUGUST 2011	PR-16

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		108	205

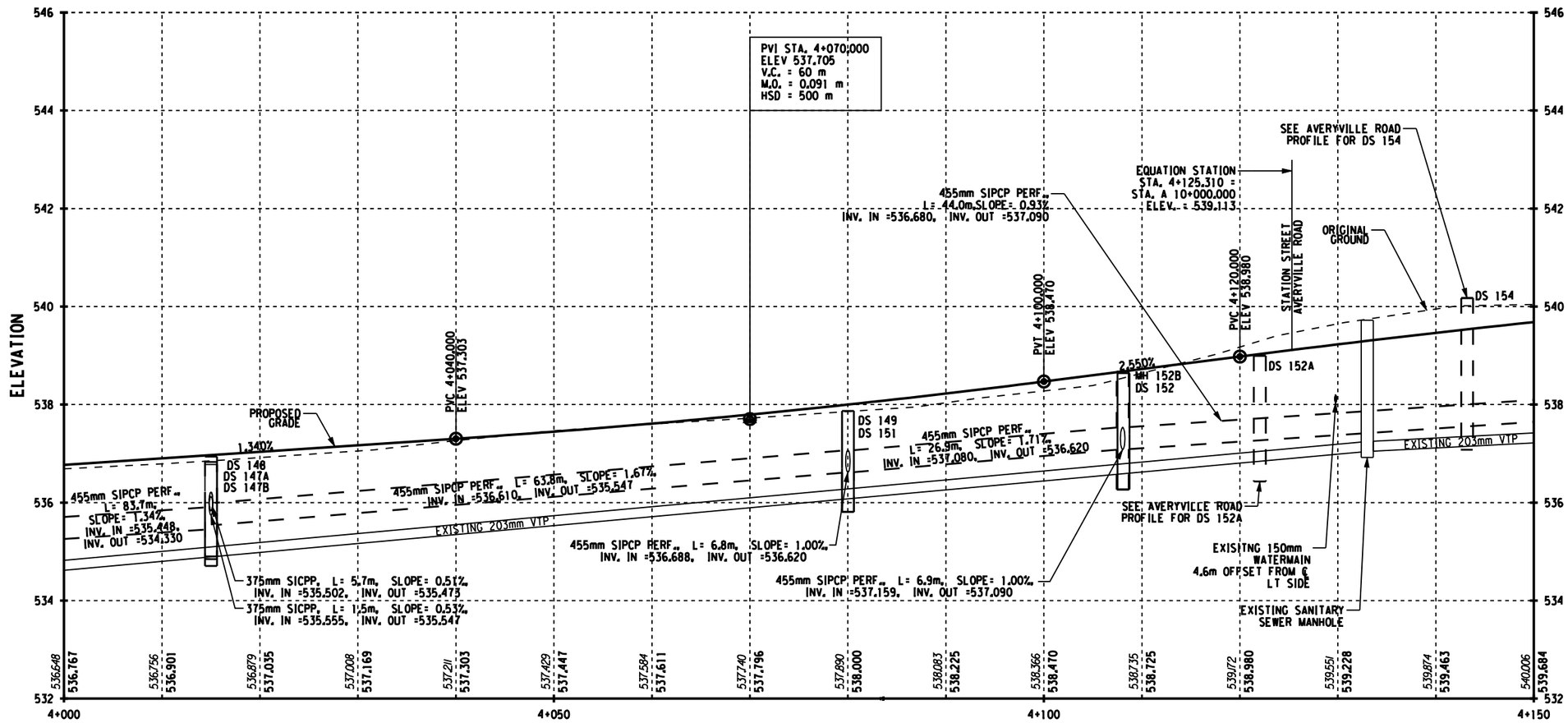
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY

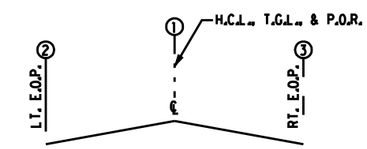


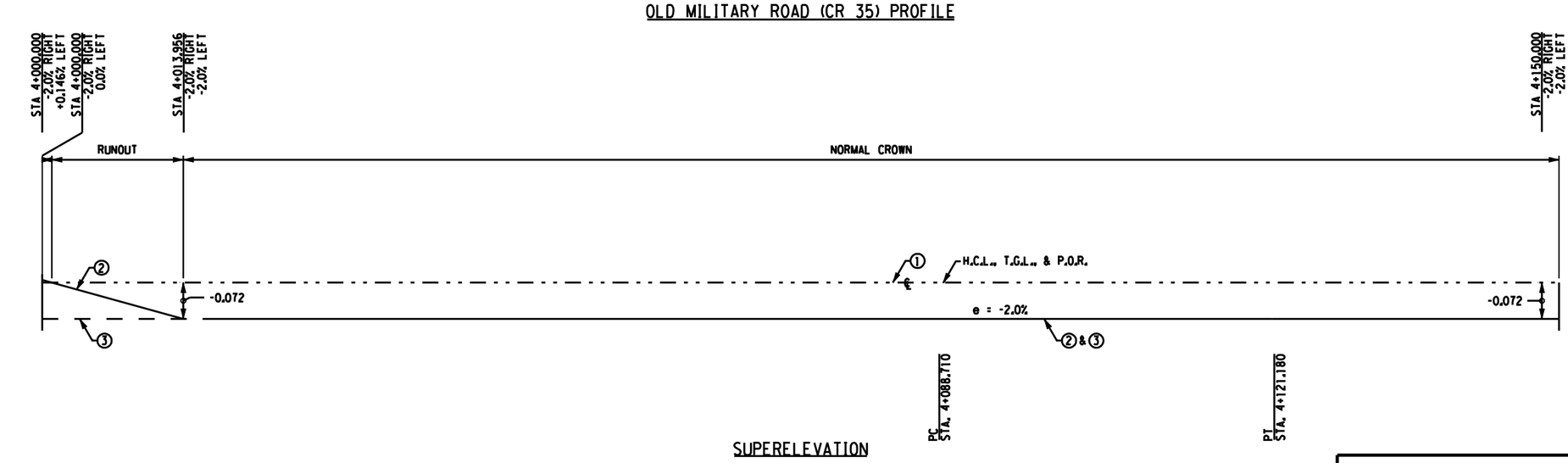
OLD MILITARY ROAD (CR 35) PROFILE

DRAINAGE LEGEND

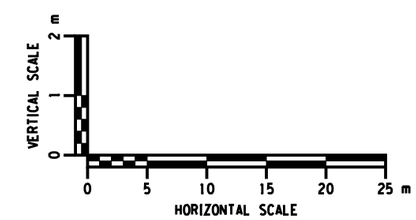
PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —





SUPERELEVATION



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 4+000.000 TO STA. 4+150.000

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

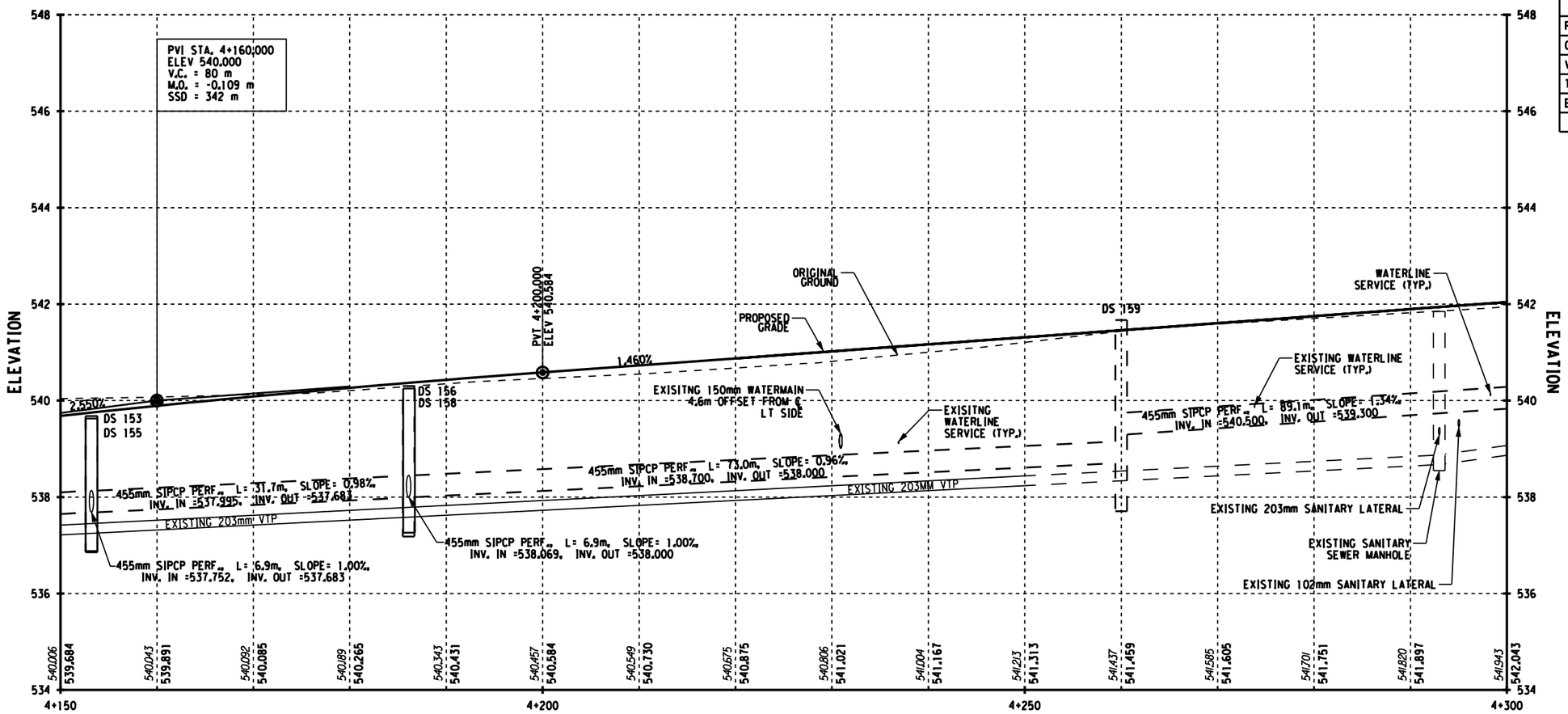
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_17	ONE	AUGUST 2011	PR-17

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

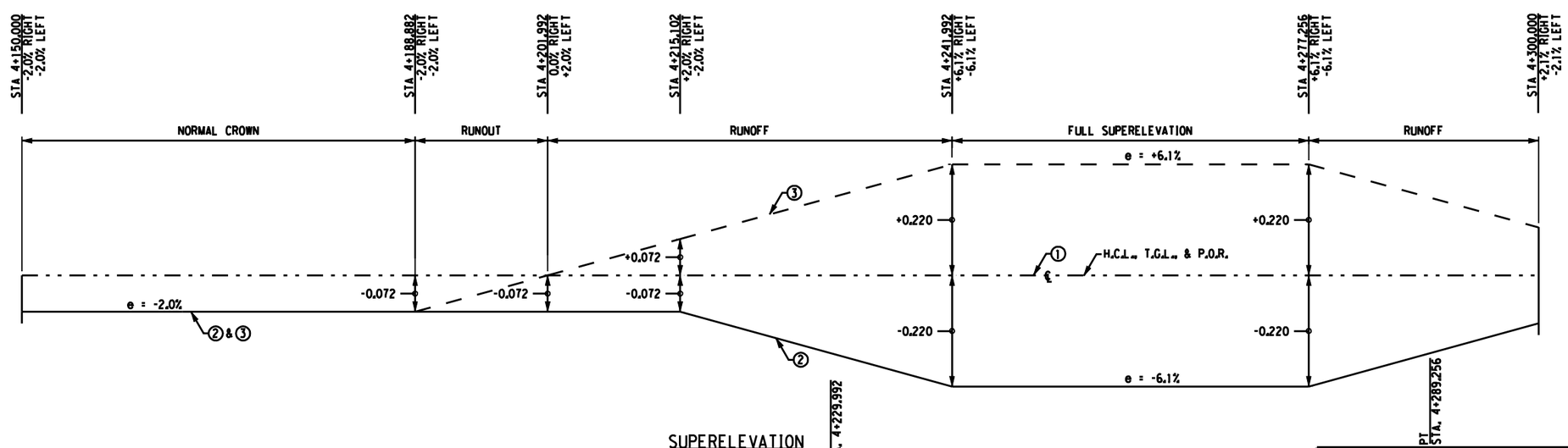
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		109	205

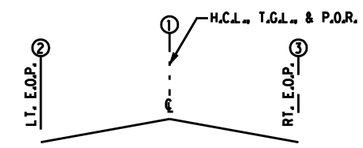
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

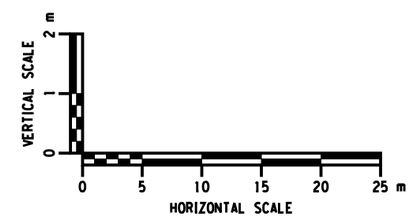


OLD MILITARY ROAD (CR 35) PROFILE



SUPERELEVATION





DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION

STA. 4+150.000 TO STA. 4+300.000

ESSEX COUNTY NY

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

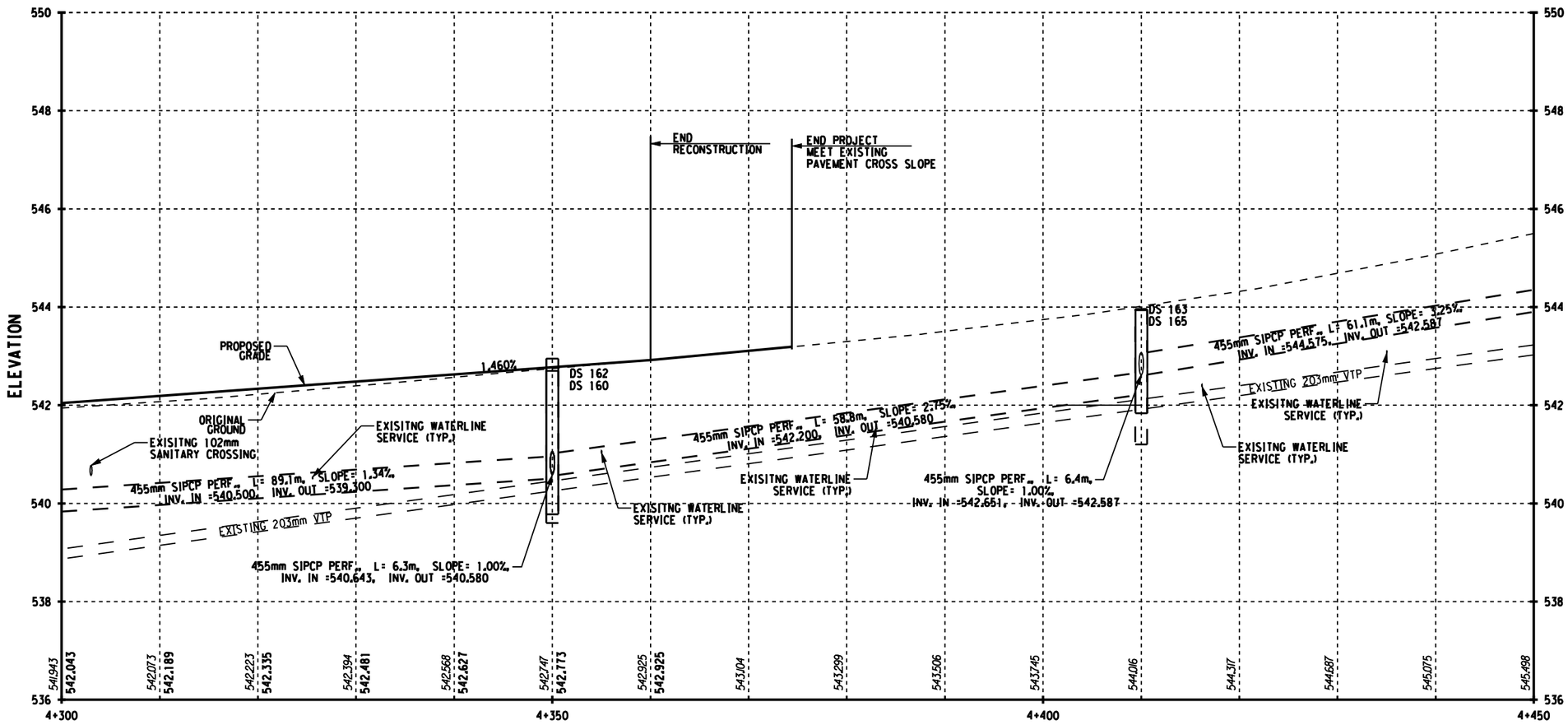
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_18	ONE	AUGUST 2011	PR-18

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY W.SHAW

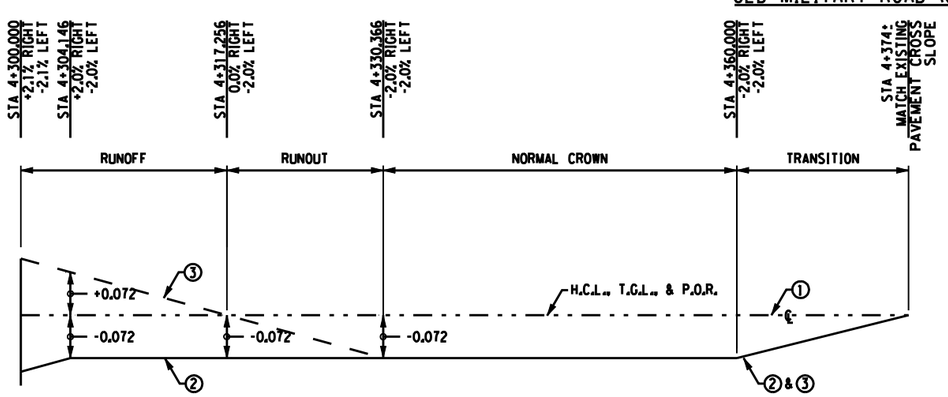
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		110	205

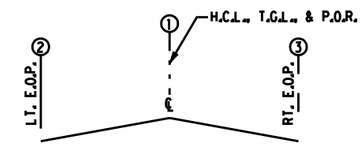
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

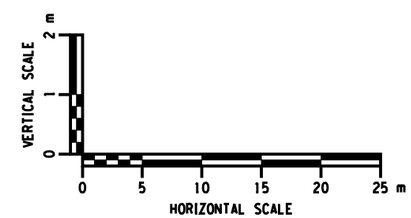


OLD MILITARY ROAD (CR 35) PROFILE



SUPERELEVATION





DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

C.R. 35 PROFILE AND SUPERELEVATION
STA. 4+300.000 TO STA. 4+450.000

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_19	ONE	AUGUST 2011	PR-19

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		111	205

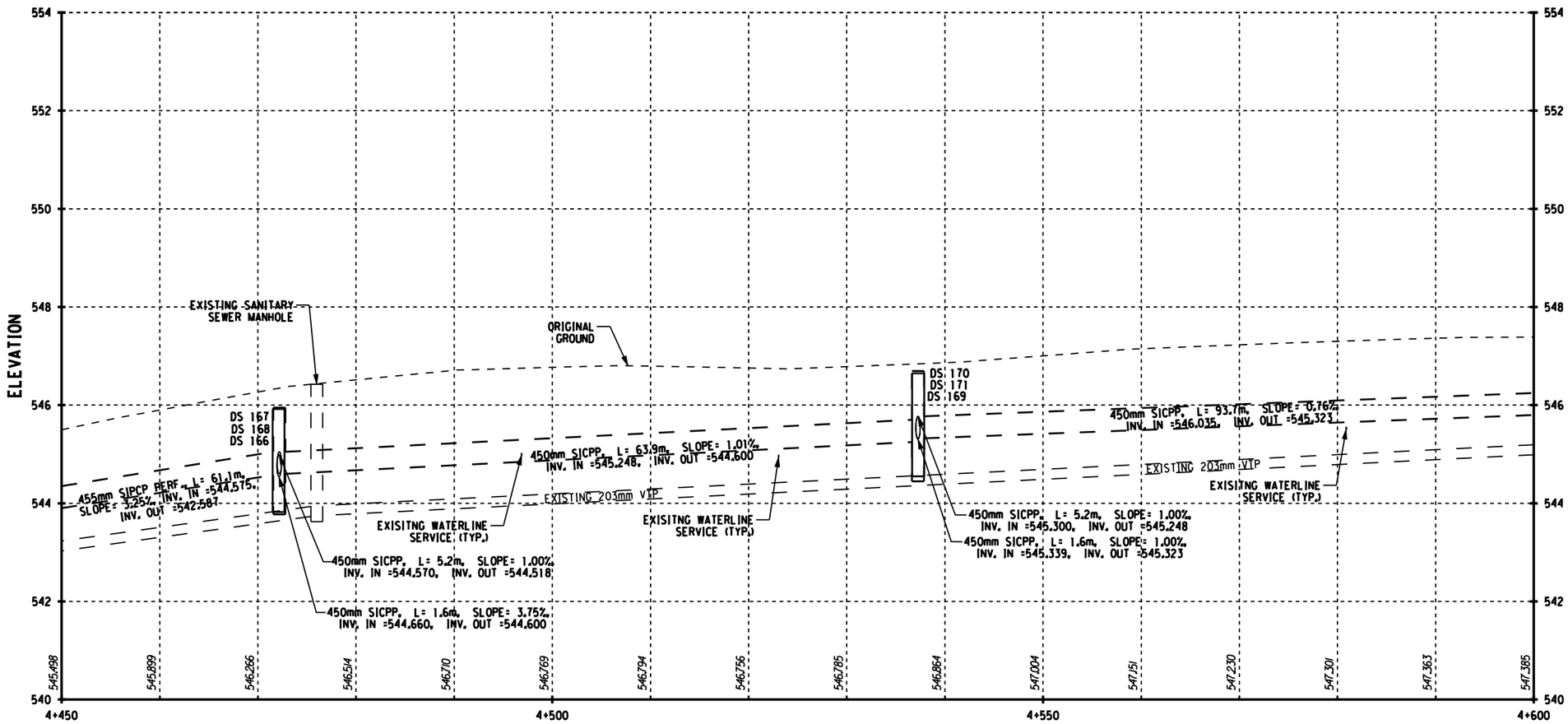
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY

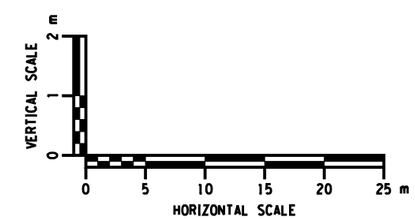


OLD MILITARY ROAD (CR 35) PROFILE

DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

CR 35 PROFILE

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPH.PRO.20	ONE	AUGUST 2011	PR-20

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		112	205

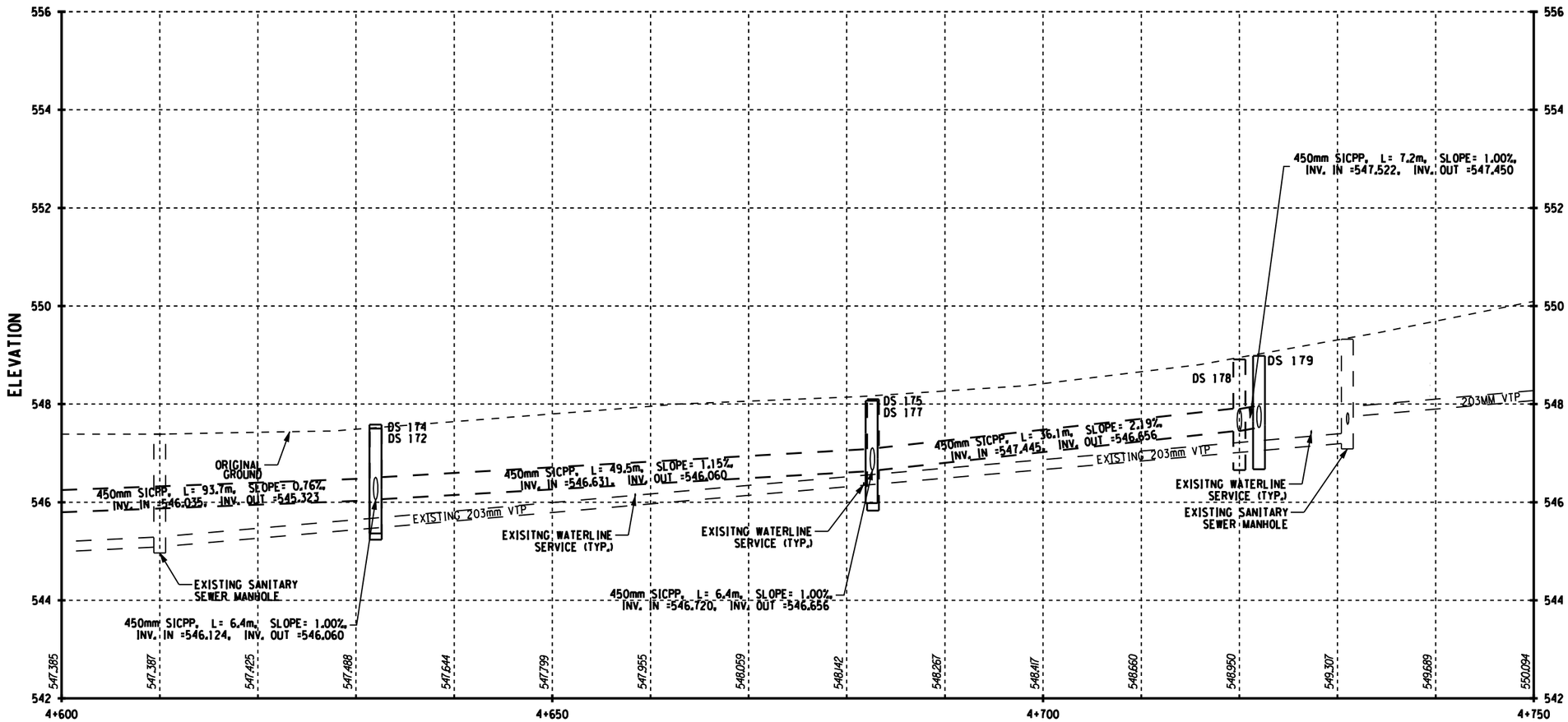
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY

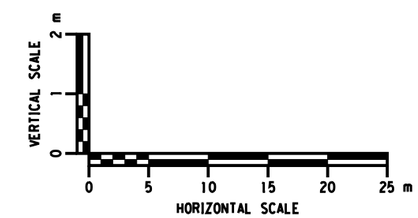


OLD MILITARY ROAD (CR 35) PROFILE

DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

CR 35 PROFILE

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_21	ONE	AUGUST 2011	PR-21

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		113	205

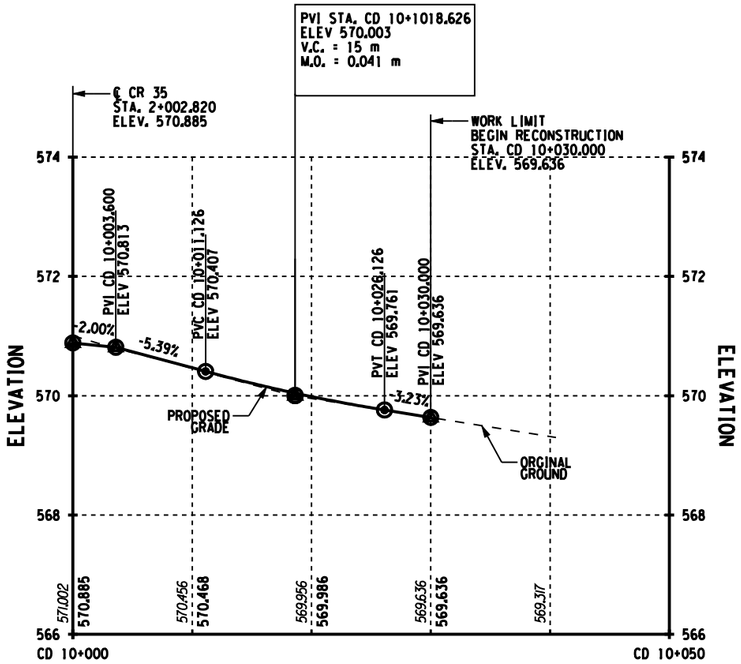
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

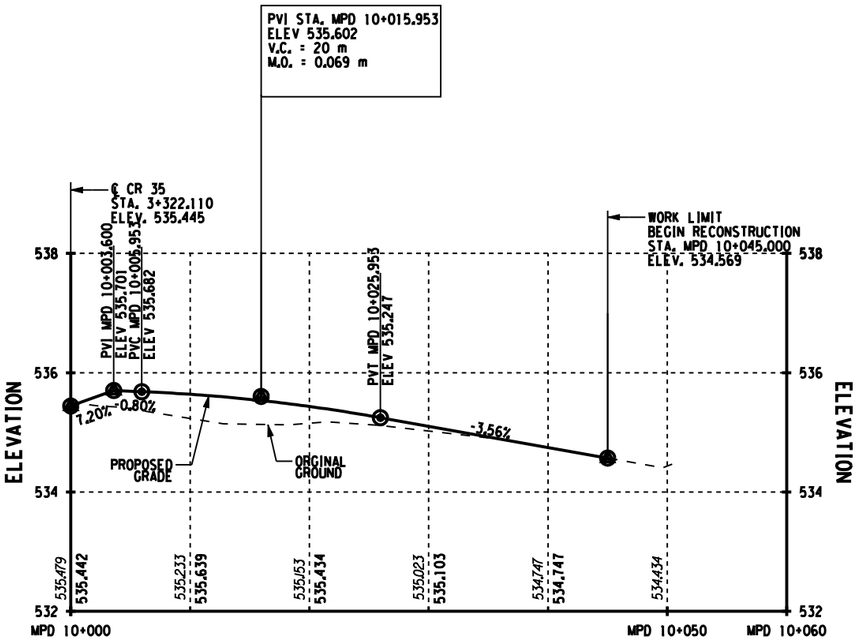
TOWN OF NORTH ELBA

ESSEX COUNTY



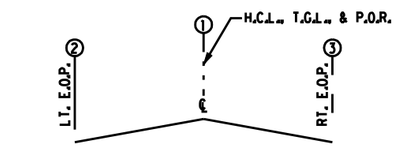
CAROLYN ROAD PROFILE

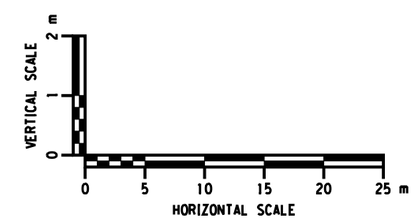
3.0m TRAVEL LANE WIDTH



MILL POND DRIVE PROFILE

3.3m TRAVEL LANE WIDTH

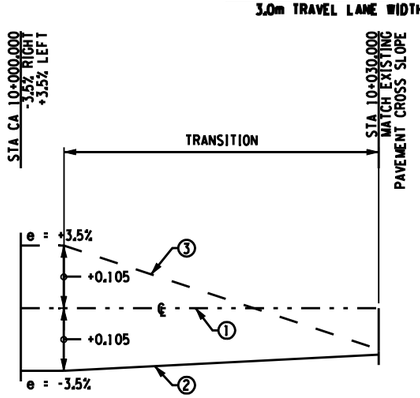




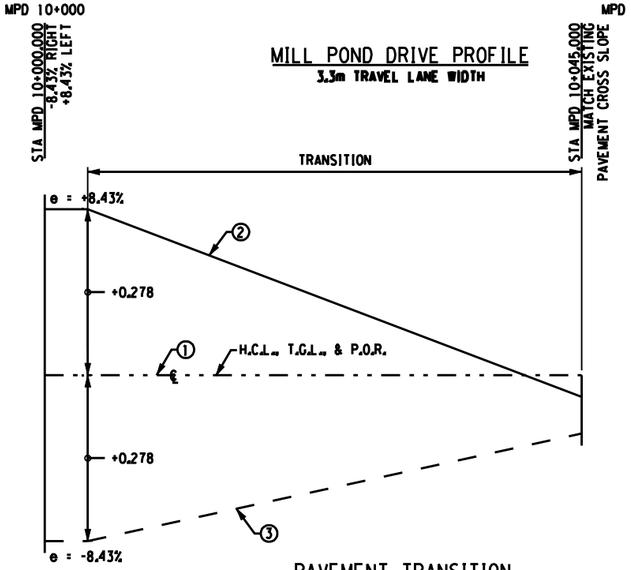
DRAINAGE LEGEND

PROPOSED PIPES AND STRUCTURES LEFT OF H.C.L. ———

PROPOSED PIPES AND STRUCTURES RIGHT OF H.C.L. — —



PAVEMENT TRANSITION



PAVEMENT TRANSITION

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

CAROLYN ROAD AND MILL POND DRIVE PROFILE AND SUPERELEVATION

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

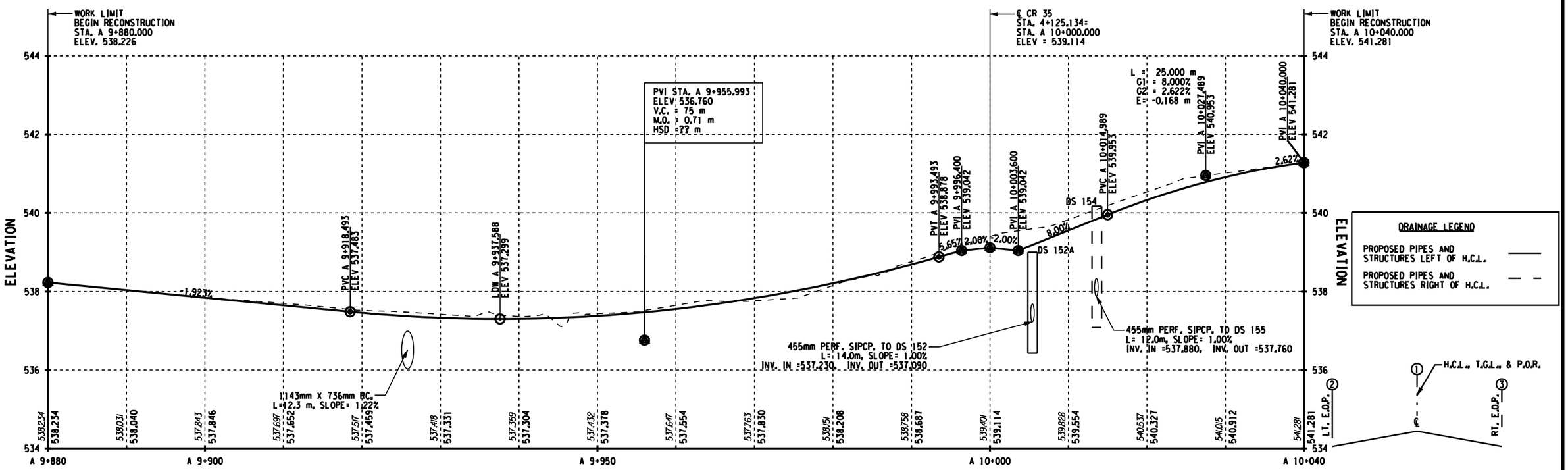
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_22	ONE	AUGUST 2011	PR-22

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

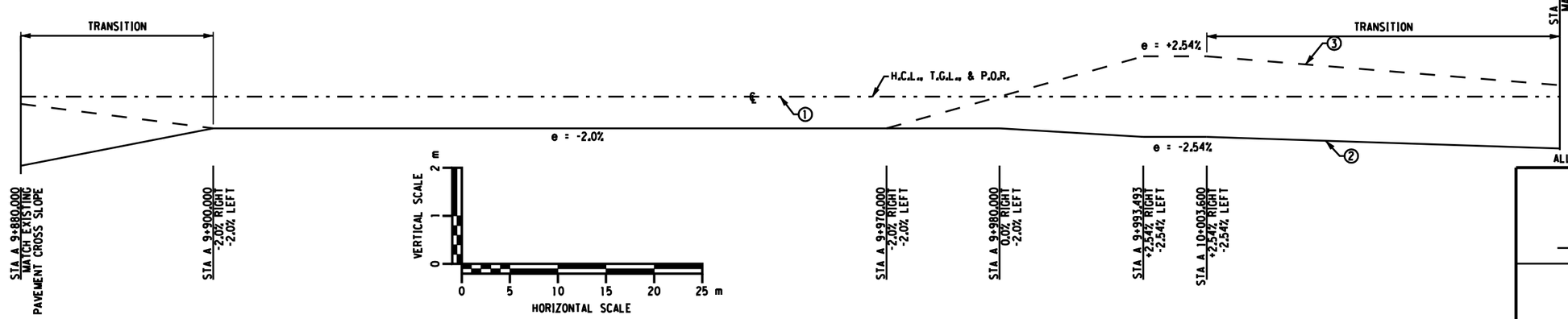
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		114	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



AVERYVILLE ROAD PROFILE

3.3m TRAVEL LANE WIDTH



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

AVERYVILLE ROAD
PROFILE AND SUPERELEVATION

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

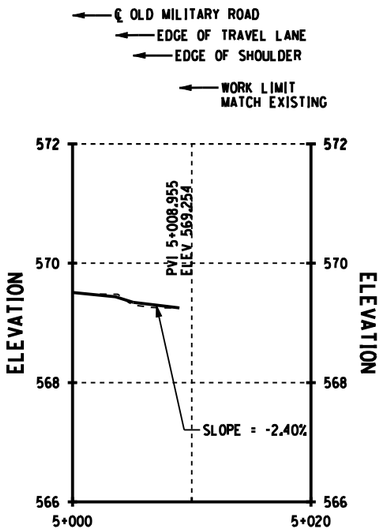
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_23	ONE	AUGUST 2011	PR-23

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN CHECKED BY K. BALDWIN

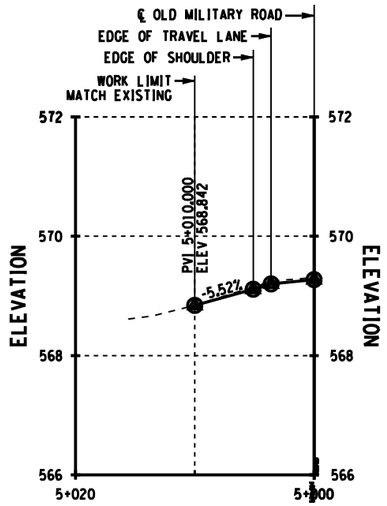
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		115	205

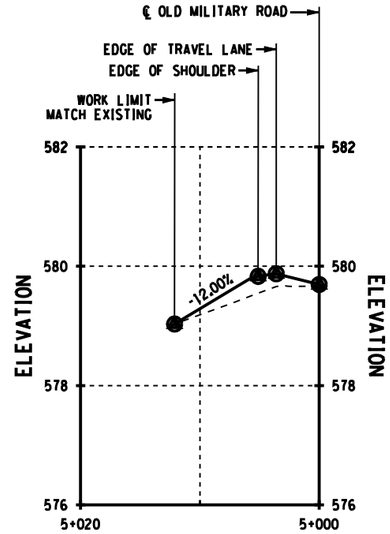
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



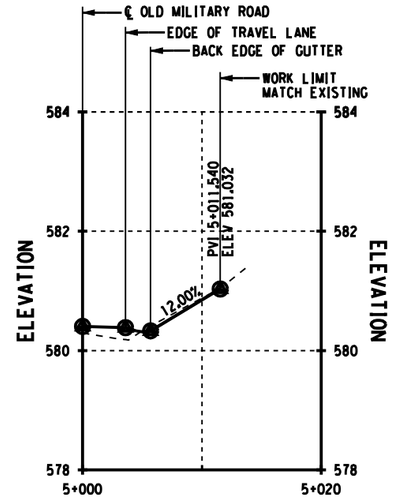
DWY NO. 1A @ 1+796.501_RT



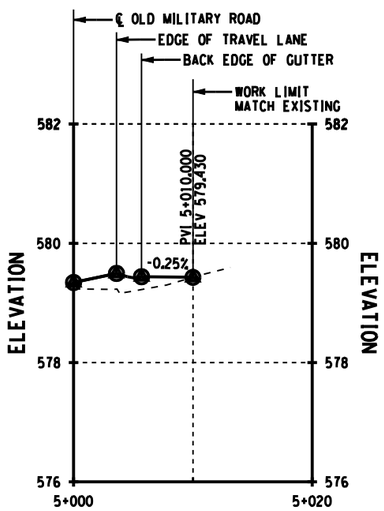
DRIVE NO. 1B @ 1+831.349_LT



DRIVE NO. 2 @ 2+268.433_LT



DRIVE NO. 3 @ 2+306.856_RT



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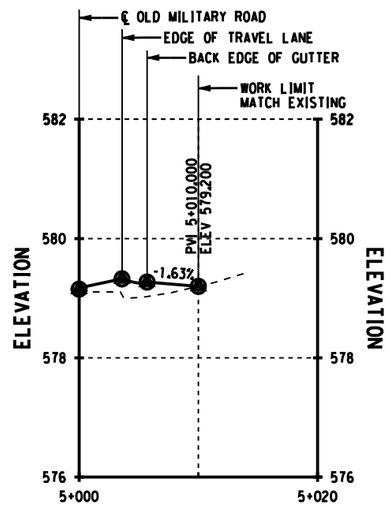
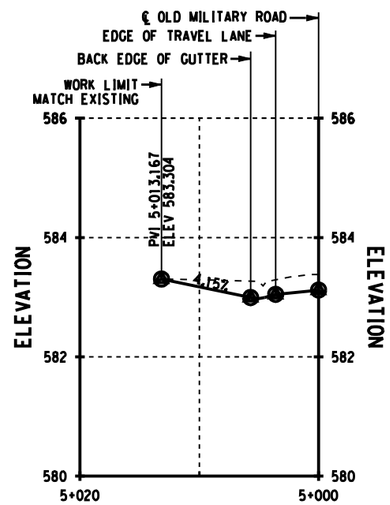
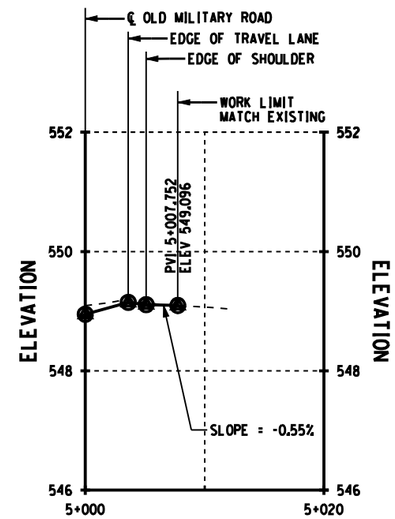


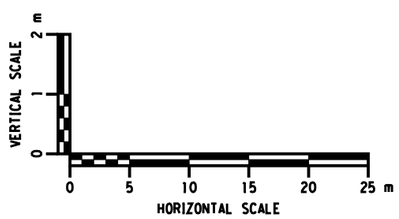
DRIVE NO. 5 @ 2+529.150_RT



DRIVE NO. 6 @ 2+705.434_LT



DRIVE NO. 7 @ 3+101.133_RT



GENERAL NOTES:

1. STATION AND ELEVATION FOR THE DRIVEWAYS ARE BASED UPON A PERPENDICULAR OFFSET OF THE CONTROLLING ALIGNMENT.
2. SEE DWG. MTD-2 FOR DRIVEWAY TABLES
3. REFER TO STANDARD SHEETS M608-6 TO M608-9 & DWG. MTD-2 FOR ADDITIONAL NOTES AND DRIVEWAY DETAILS.
4. CROSS-SLOPE OF DRVEWAYS SHALL BE -2%.
5. AT PVI STATIONS OF DRIVEWAYS, THE CONTRACTOR SHALL PROVIDE A SMOOTH ALIGNMENT TRANSITION.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DRIVEWAY PROFILES
SHEET 1 OF 7

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

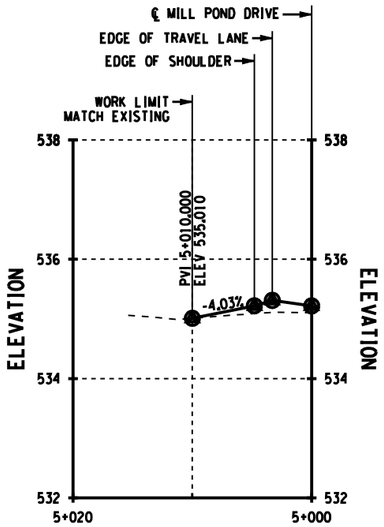
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_DWY.DGN	ONE	AUGUST 2011	DRV-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

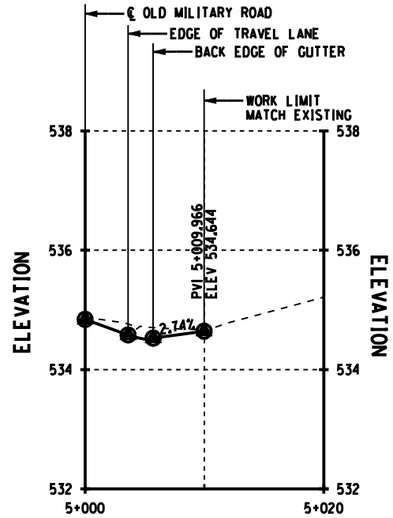
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		116	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



DRIVE NO. 8A @ MPD 10+026.545_LT



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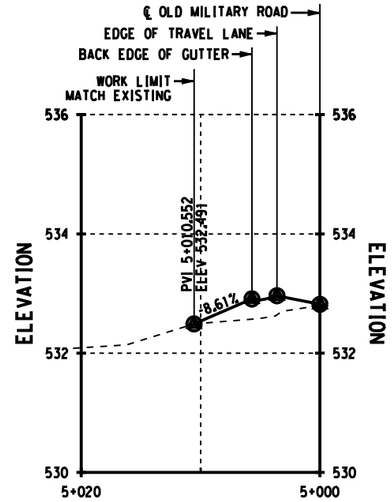
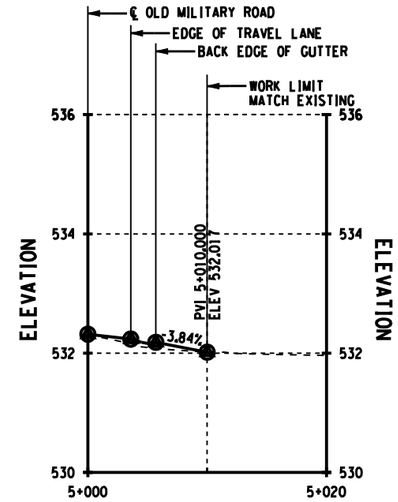


DRIVE NO. 9 @ 3+362.636_LT



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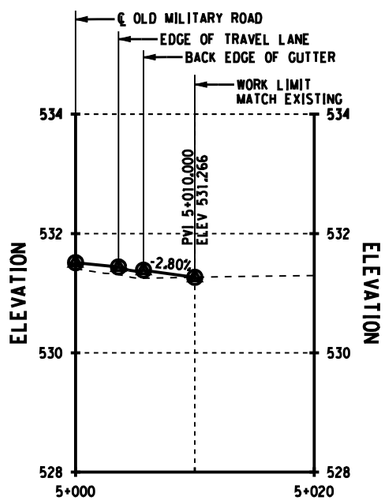

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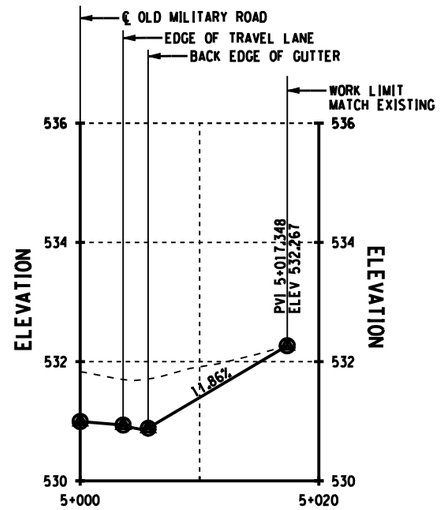

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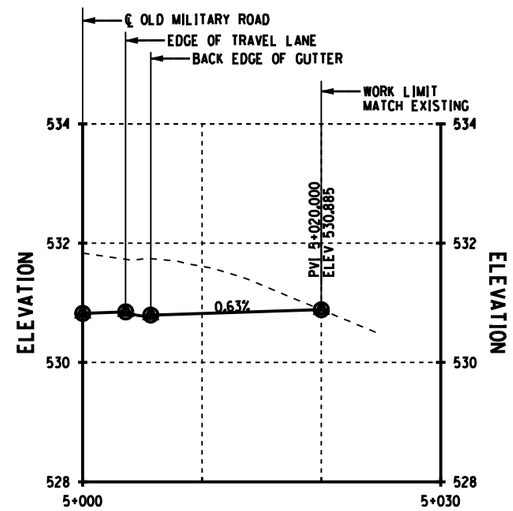

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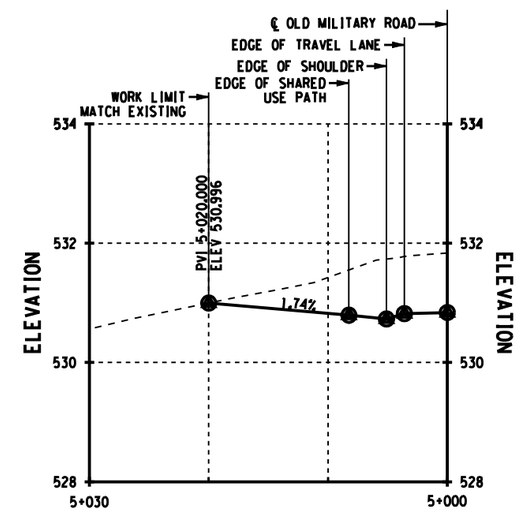

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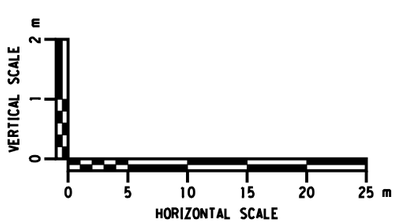


GENERAL NOTES:

1. STATION AND ELEVATION FOR THE DRIVEWAYS ARE BASED UPON A PERPENDICULAR OFFSET OF THE CONTROLLING ALIGNMENT.
2. SEE DWG. MTD-2 FOR DRIVEWAY TABLES
3. REFER TO STANDARD SHEETS M608-6 TO M608-9 & DWG. MTD-2 FOR ADDITIONAL NOTES AND DRIVEWAY DETAILS.
4. CROSS-SLOPE OF DRVEWAYS SHALL BE -2%.
5. AT PVI STATIONS OF DRIVEWAYS, THE CONTRACTOR SHALL PROVIDE A SMOOTH ALIGNMENT TRANSITION.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRIVEWAY PROFILES
SHEET 2 OF 7

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

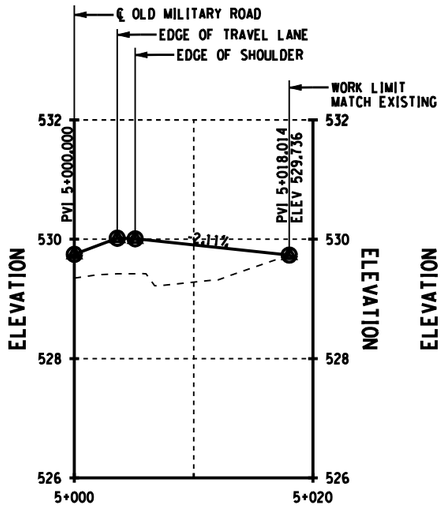
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_DWY.DGN	ONE	AUGUST 2011	DRV-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		117	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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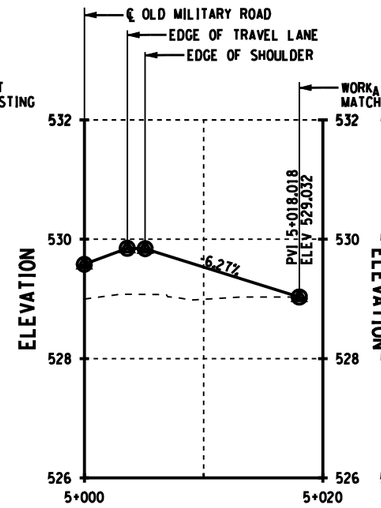

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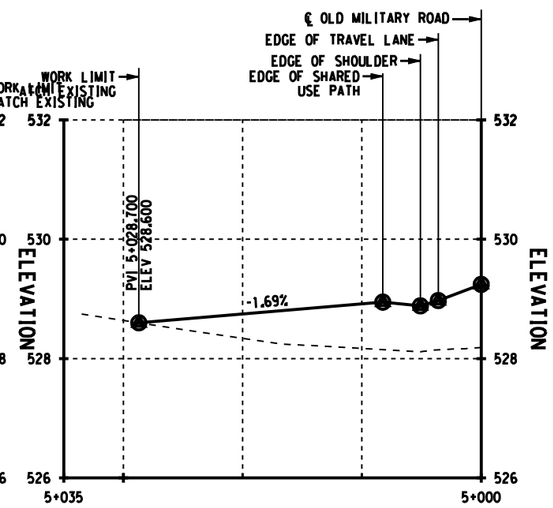

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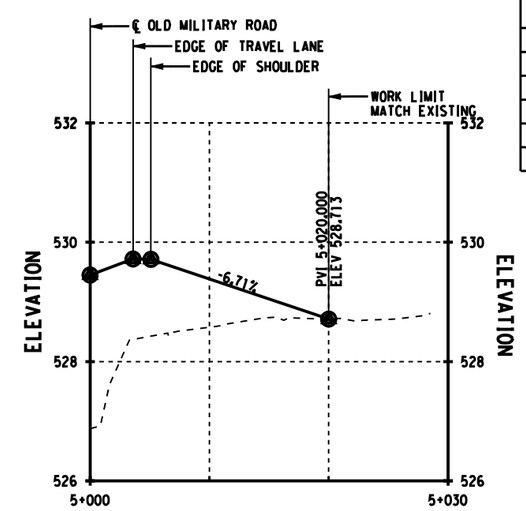

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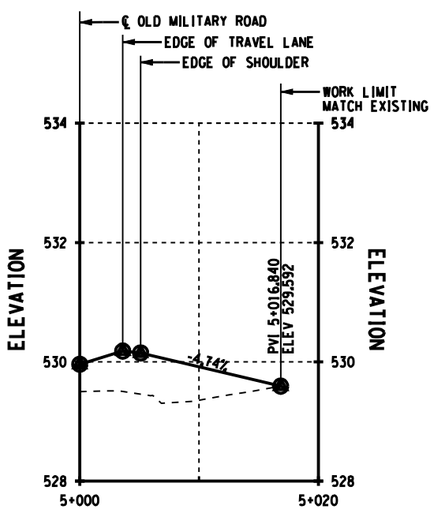

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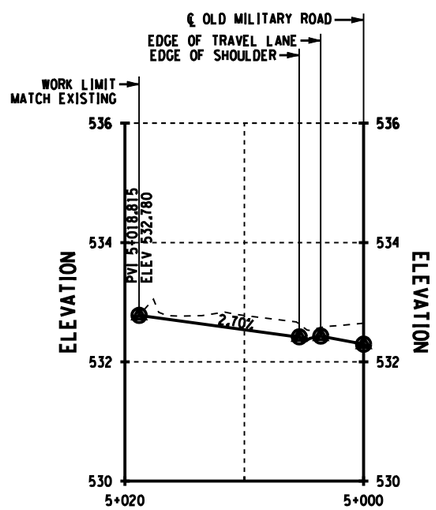

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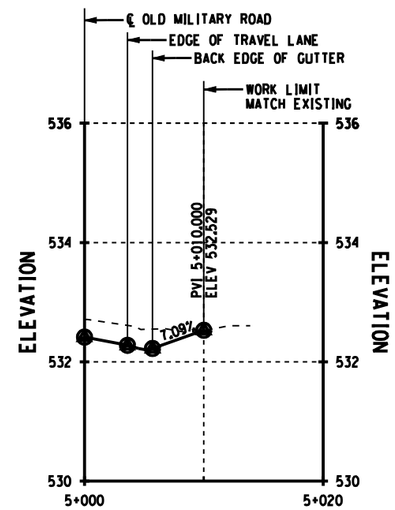

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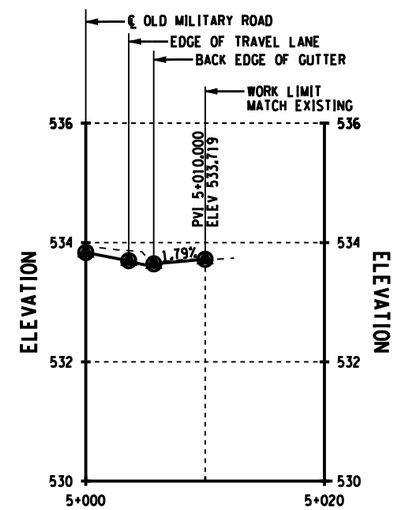
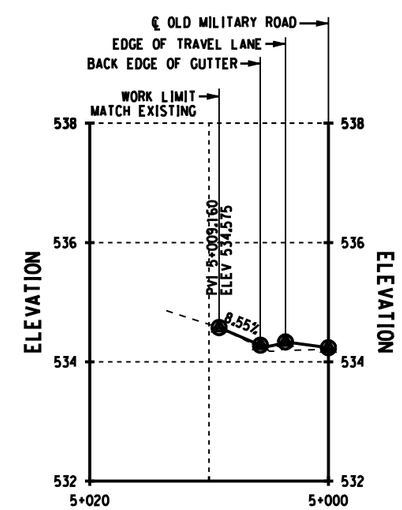
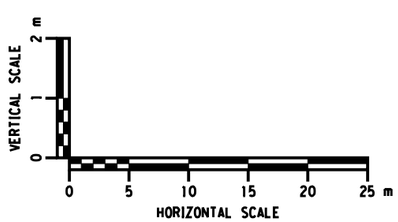


DRIVE NO. 22 @ 3+818.516_RT



DRIVE NO. 23 @ 3+835.820_LT

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED



GENERAL NOTES:

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2. SEE DWG. MTD-2 FOR DRIVEWAY TABLES
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4. CROSS-SLOPE OF DRVEWAYS SHALL BE -2%.
5. AT PVI STATIONS OF DRIVEWAYS, THE CONTRACTOR SHALL PROVIDE A SMOOTH ALIGNMENT TRANSITION.

AS BUILT REVISIONS

SIGNATURE DATE

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DRIVEWAY PROFILES
SHEET 3 OF 7

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

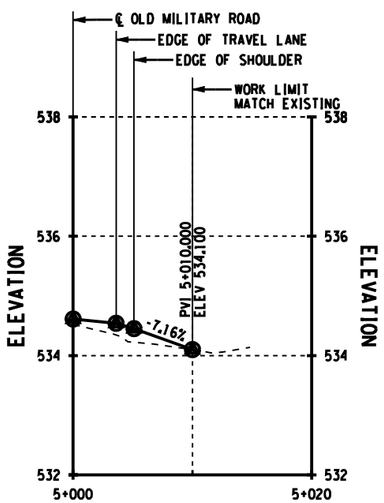
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_DWY.DGN	ONE	AUGUST 2011	DRV-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

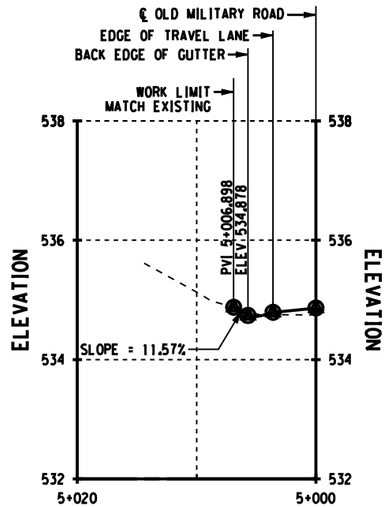
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		118	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



DRIVE NO. 24 @ 3+853.545_RT



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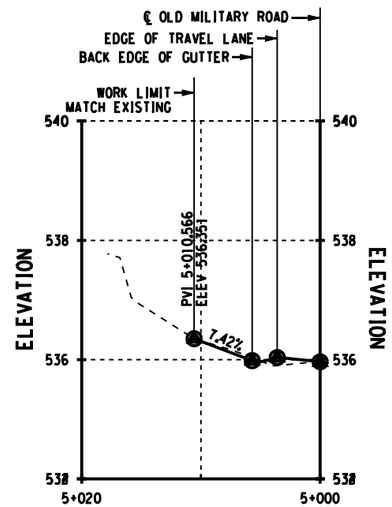

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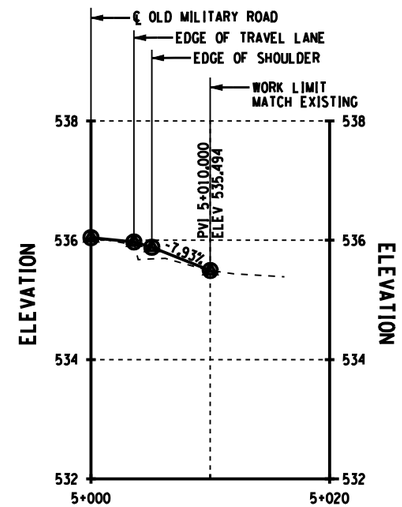

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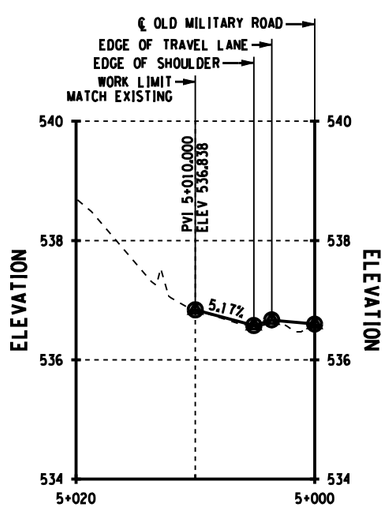

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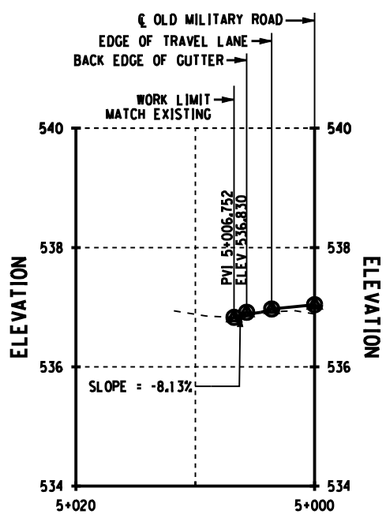

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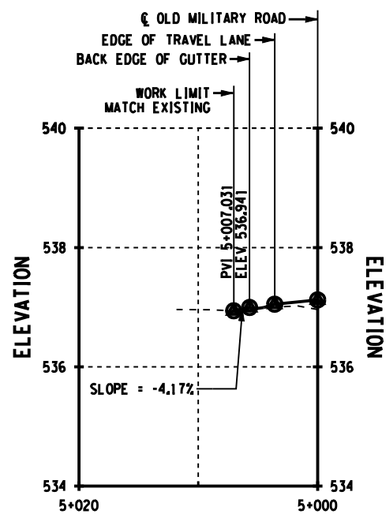

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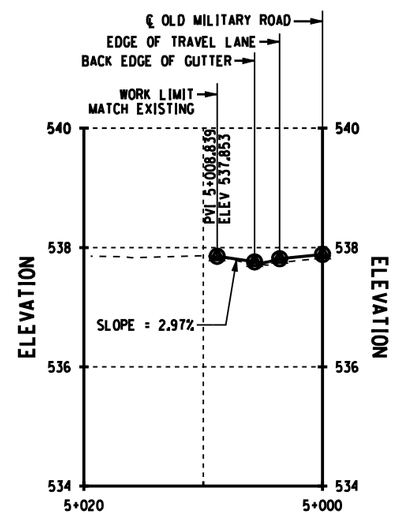
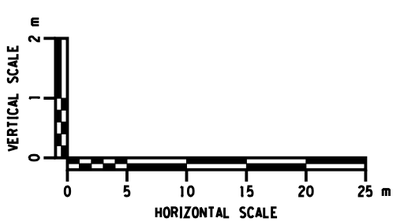


DRIVE NO. 31 @ 4+074.497_LT



GENERAL NOTES:

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4. CROSS-SLOPE OF DRVEWAYS SHALL BE -2%.
5. AT PVI STATIONS OF DRIVEWAYS, THE CONTRACTOR SHALL PROVIDE A SMOOTH ALIGNMENT TRANSITION.

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AS BUILT REVISIONS

SIGNATURE DATE

DRIVEWAY PROFILES
SHEET 4 OF 7

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

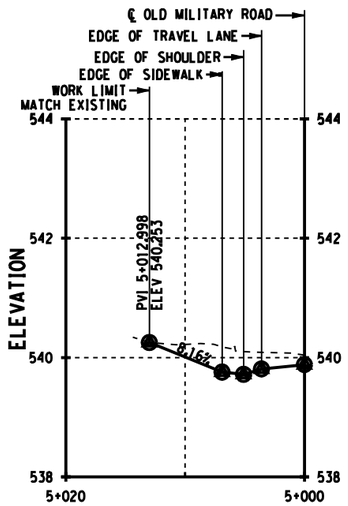
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_DWY.DGN	ONE	AUGUST 2011	DRV-4

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

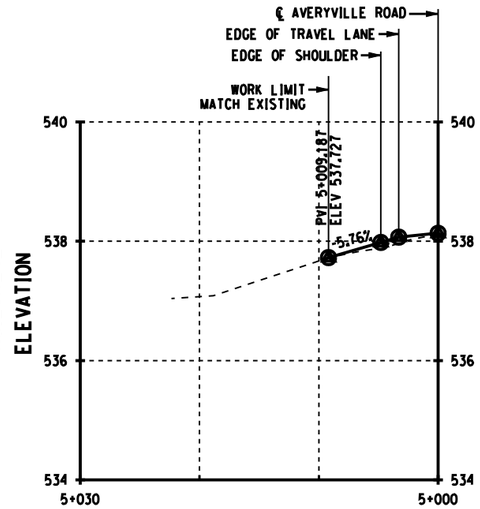
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		119	205

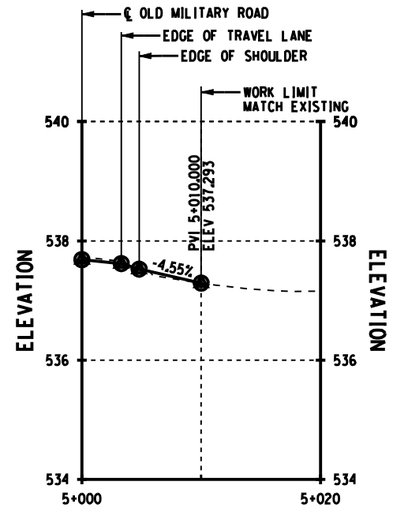
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



DRIVE NO. 32A @ 4+159.586_LT



DRIVE NO. 32B @ A 9+885.067_LT



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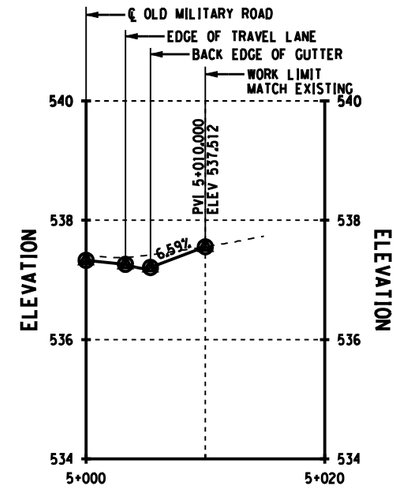

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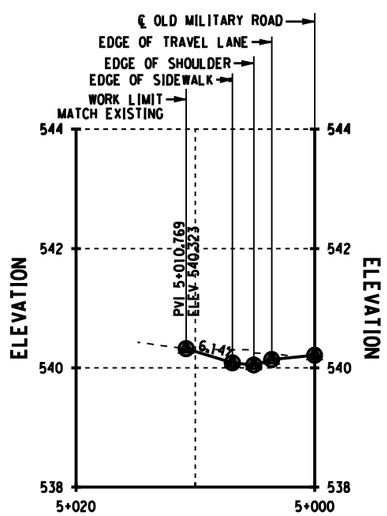
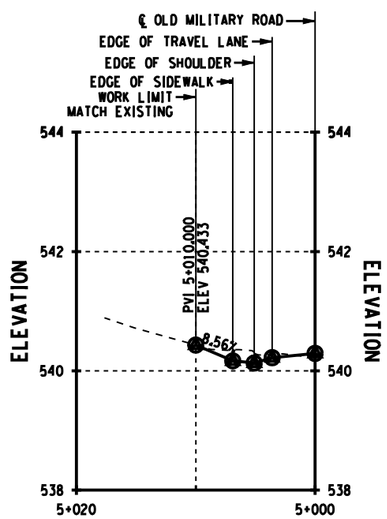
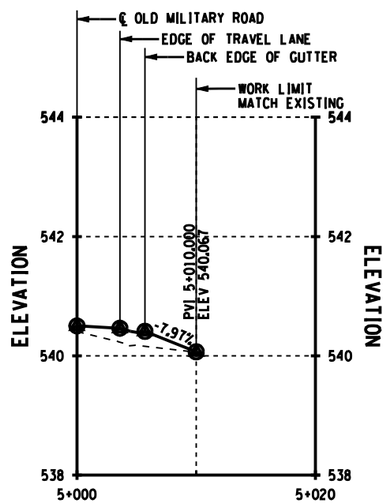


DRIVE NO. 33A @ 4+176.950_LT



DRIVE NO. 33B @ 4+181.711_LT



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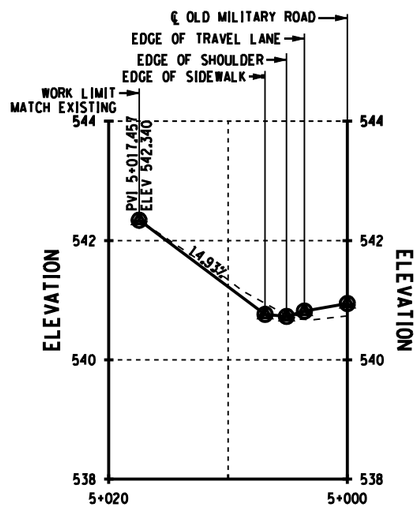

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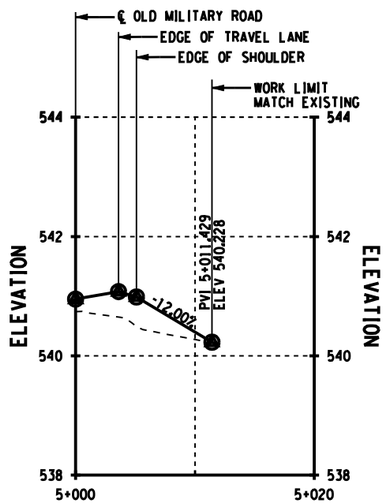

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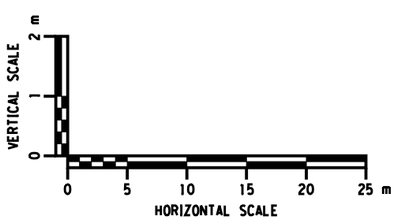

GENERAL NOTES:

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2. SEE DWG. MTD-2 FOR DRIVEWAY TABLES
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ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRIVEWAY PROFILES
SHEET 5 OF 7

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

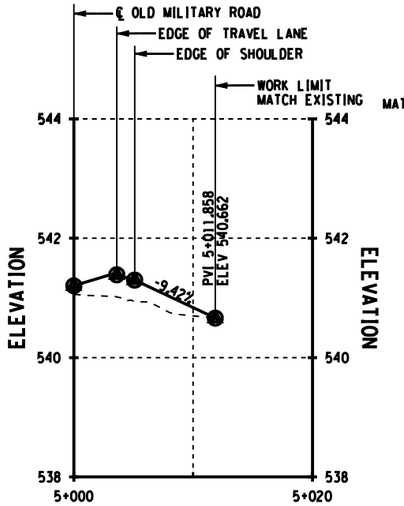
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_DWY.DGN	ONE	AUGUST 2011	DRV-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		120	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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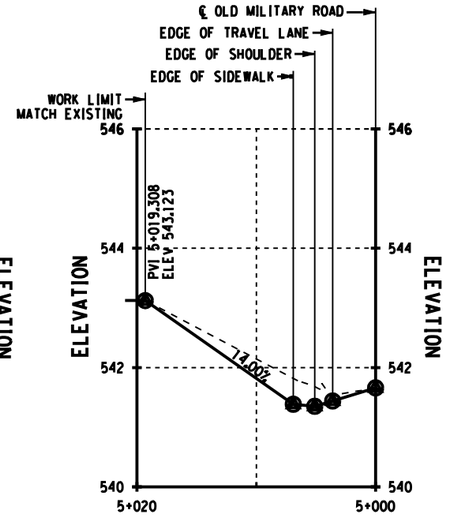
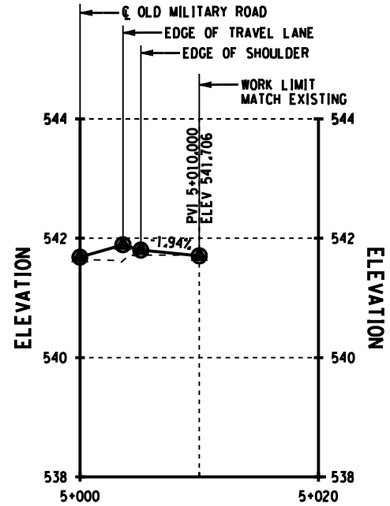
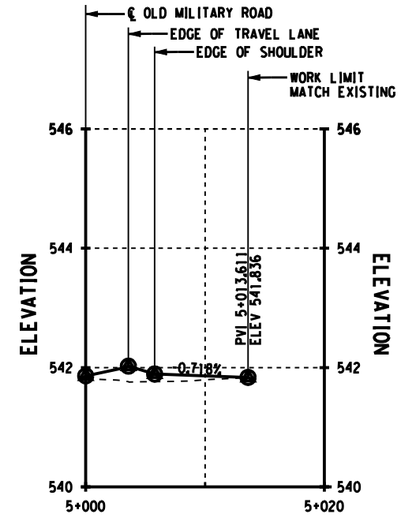


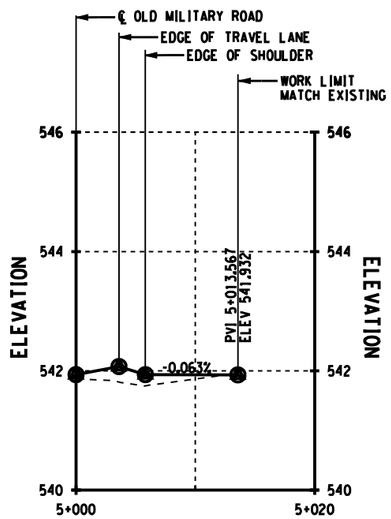
DRIVE NO. 38 @ 4+273.722_LT



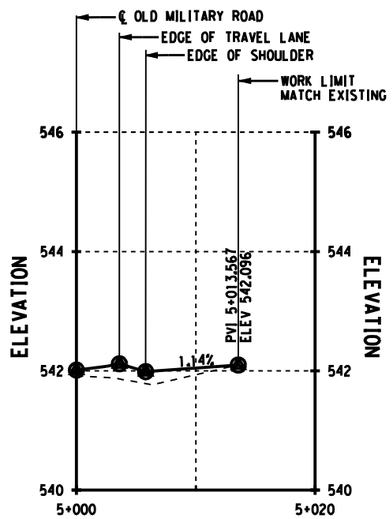
DRIVE NO. 39 @ 4+275.390_RT



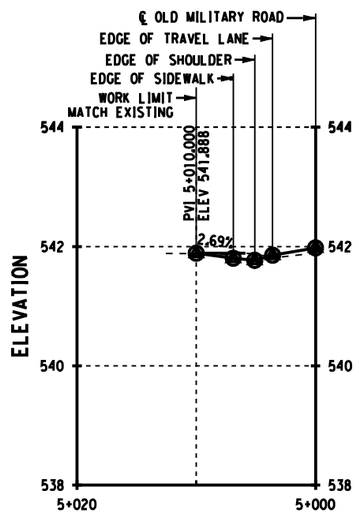
DRIVE NO. 40A @ 4+287.472_RT



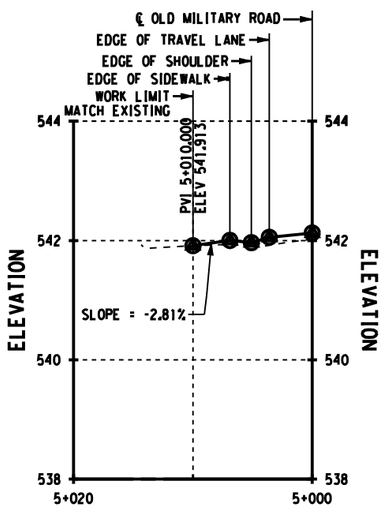
DRIVE NO. 40B @ 4+292.829_RT



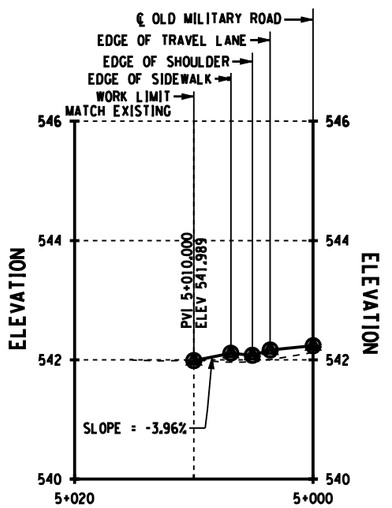
DRIVE NO. 40C @ 4+297.839_RT



DRIVE NO. 41 @ 4+295.539_LT

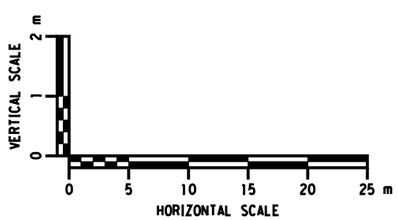


DRIVE NO. 42 @ 4+305.797_LT



DRIVE NO. 43 @4+313.351_LT

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED



GENERAL NOTES:

1. STATION AND ELEVATION FOR THE DRIVEWAYS ARE BASED UPON A PERPENDICULAR OFFSET OF THE CONTROLLING ALIGNMENT.
2. SEE DWG. MTD-2 FOR DRIVEWAY TABLES
3. REFER TO STANDARD SHEETS M608-6 TO M608-9 & DWG. MTD-2 FOR ADDITIONAL NOTES AND DRIVEWAY DETAILS.
4. CROSS-SLOPE OF DRVEWAYS SHALL BE -2%.
5. AT PVI STATIONS OF DRIVEWAYS, THE CONTRACTOR SHALL PROVIDE A SMOOTH ALIGNMENT TRANSITION.

AS BUILT REVISIONS

SIGNATURE DATE

DRIVEWAY PROFILES
SHEET 6 OF 7

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

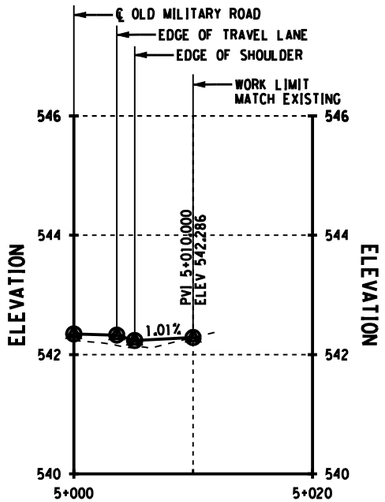
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_DWY.DGN	ONE	AUGUST 2011	DRV-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

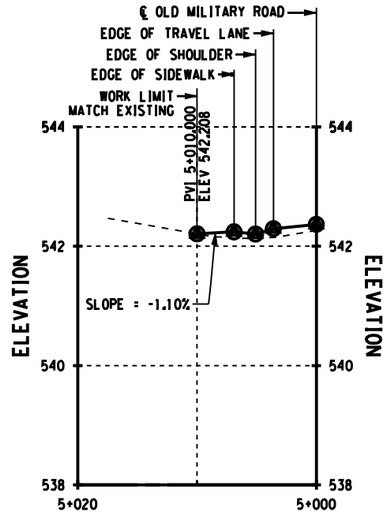
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		121	205

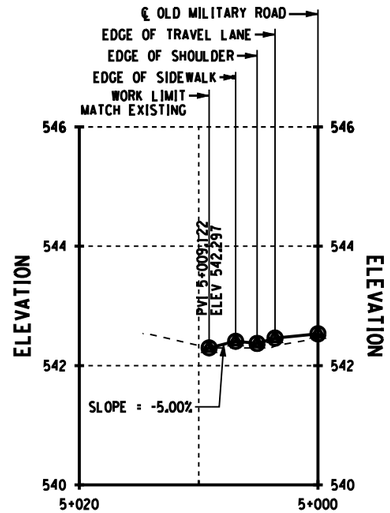
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



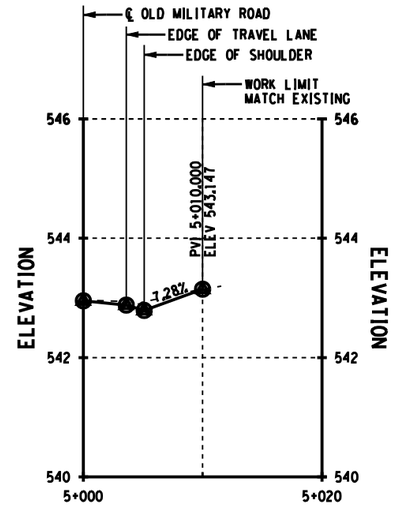
DRIVE NO. 44 @ 4+320.750_RT



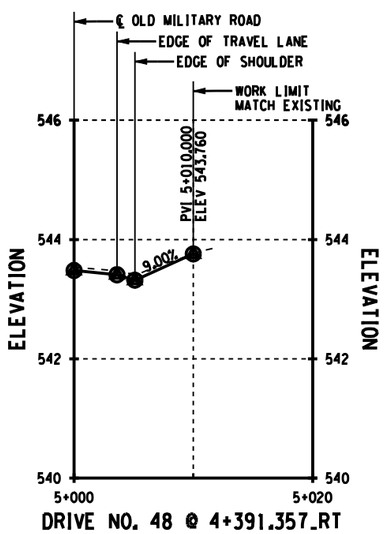
DRIVE NO. 45 @ 4+322.269_LT



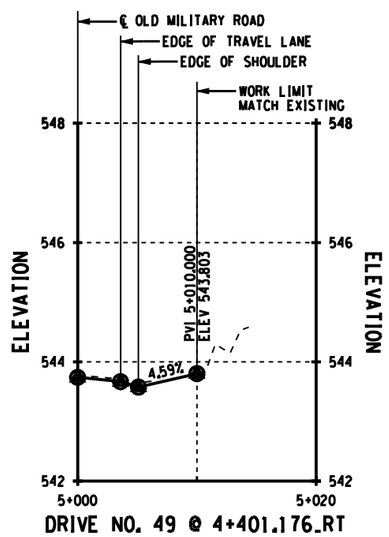
DRIVE NO. 46 @ 4+333.629_LT



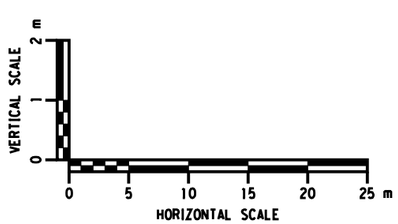
DRIVE NO. 47 @ 4+362.254_RT



DRIVE NO. 48 @ 4+391.357_RT



DRIVE NO. 49 @ 4+401.176_RT



GENERAL NOTES:

1. STATION AND ELEVATION FOR THE DRIVEWAYS ARE BASED UPON A PERPENDICULAR OFFSET OF THE CONTROLLING ALIGNMENT.
2. SEE DWG. MTD-2 FOR DRIVEWAY TABLES
3. REFER TO STANDARD SHEETS M608-6 TO M608-9 & DWG. MTD-2 FOR ADDITIONAL NOTES AND DRIVEWAY DETAILS.
4. CROSS-SLOPE OF DRVEWAYS SHALL BE -2%.
5. AT PVI STATIONS OF DRIVEWAYS, THE CONTRACTOR SHALL PROVIDE A SMOOTH ALIGNMENT TRANSITION.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

DRIVEWAY PROFILES
SHEET 7 OF 7

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_PRO_DWY.DGN	ONE	AUGUST 2011	DRV-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		122	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ITEM 647.01 - REMOVAL OF SIGNS - SIZE A (0-1.0 SQM)

LOCATION	STATION	SIDE	APPROX SIZE	DESCRIPTION	MUTCD
1	1+845	RT	0.75x0.75	INTERSECTION WARNING	W2-2L
2	1+929	RT	0.75x0.75	CURVE ADVISORY	W1-2R
3	1+964	LT	0.60x0.75	SPEED LIMIT	R2-1
4	CA 10+012.5	LT	0.75x0.75	STOP	R1-1
5	2+016.5	LT	0.60x0.15	STREET	D3-1
6	2+077.5	RT	0.60x0.75	SPEED LIMIT	R2-1
7	2+155.5	LT	0.75x0.75	INTERSECTION WARNING	W2-2R
8	2+301.0	RT	0.45x0.15	STREET	D3-1
9	2+392.0	RT	0.75x0.75 0.6x0.3	INTERSECTION WARNING SUPPLEMENTAL PLAQUE	W2-2R NYW5-16
10	2+436.0	LT	0.75x0.75	CURVE ADVISORY	W3-2L
11	2+601.8	RT	0.75X0.75 0.60x0.45	STEEP HILL SUPPLEMENTAL PLAQUE	W7-1 W7-2
12	2+637.5	RT	0.75x0.75	CAUTION FOR STOP AHEAD	W3-4 MOD
13	2+678.5	RT	0.75x0.75	SLIPPERY WHEN WET	W8-5
14	2+869.5	LT	0.75x0.75 0.60x0.30	INTERSECTION WARNING SUPPLEMENTAL PLAQUE	W2-2R NYW5-16
15	2+908.0	RT	0.75x0.75 0.45x0.45	WINDING ROAD SUPPLEMENTAL PLAQUE	W1-5 W13-1
16	3+147.5	RT	0.90 DIA. 0.60x0.45	RR ADVACE WARNING SUPPLEMENTAL PLAQUE	W10-1 W16-4
17	3+164.0	LT	1.2x0.60	ARROW	W1-6R
18	3+171.0	RT	0.75x0.75	INTERSECTION WARNING	W2-2L
19	3+191.0	LT	1.2x0.60	ARROW	W1-6R
20	3+192.5	LT	1.2x0.60 0.75x0.75	ARROW SLIPPERY WHEN WET	W1-6L W8-5
21	3+210.0	RT	0.75x0.75 0.60x0.45	INTERSECTION WARNING SUPPLEMENTAL PLAQUE	W2-2L ???
22	3+245.5	RT	0.90 DIA.	RR ADVACE WARNING	W10-1
23	3+266.0	LT	0.60x0.75	SPEED LIMIT	R2-1
24	3+291.0	LT	0.75x0.75 0.60x0.45	WINDING ROAD SUPPLEMENTAL PLAQUE	W1-5 W13-1
25	MPD 10+020	LT	0.75x0.75	STOP	R1-1
26	3+330.0	LT	0.60x0.15 0.75x0.15	2 - STREET	D3-1
27	3+320.0	RT	0.60x0.60 0.60x0.15 0.60x0.45	HOSPITAL ARROW SUPPLEMENTAL PLAQUE	D9-2 M6-1L NYW5-16
28	3+350.0	LT	0.60x0.45	NO THRU TRAFFIC	???
29	3+346.5	RT	0.90 DIA.	RR ADVANCE WARNING	W10-1
30	3+382.5	RT	0.90x0.45	TRAIN TRAFFIC	NYR10-5
31	3+382.5	RT	0.60x0.75	SPEED LIMIT	R2-1
32	3+480.0	RT	0.75x0.75 0.45x0.45	CURVE ADVISORY AND SUPP. PLAQUE	W1-2L W13-1
33	6+519.0	LT	0.75x0.75 0.60x0.45	INTERSECTION WARNING SUPPLEMENTARY PLAQUE	W2-2R ???
34	3+552.0	LT	0.90 DIA.	RR ADVACE WARNING	W10-1
35	3+562.0	RT	0.75x0.75 0.75x0.30	INTERESTION WARNING SUPPLEMENTARY PLAQUE	W2-2R ???

ITEM 647.01 - REMOVAL OF SIGNS - SIZE A (0-1.0 SQM)

LOCATION	STATION	SIDE	APPROX SIZE	DESCRIPTION	MUTCD
36	3+601.0	RT	0.30x0.90	OBJECT MARKER	OM-3
37	3+602.0	RT	0.30x0.90	OBJECT MARKER	OM-3
38	3+610.0	RT	0.30x0.90	OBJECT MARKER	OM-3
39	3+612.0	RT	0.30x0.90	OBJECT MARKER	OM-3
40	3+698.5	LT	0.75x0.75 0.90x0.30	INTERSECTION WARNING SUPPLEMENTAL PLAQUE	W2-2R ???
41	3+711.0	RT	0.60x0.75	SPEED LIMIT	R2-1
42	3+780.5	LT	0.75x0.75 0.45X0.45	CURVE ADVISORY SUPPLEMENTAL PLAQUE	W1-2R W13-1
43	3+903.0	LT	0.75x0.75 0.90x0.30	INTERSECTION WARNING SUPPLEMENTAL PLAQUE	W2-2L ???
44	3+953.5	LT	0.75x0.90	SPEED LIMIT	R2-1
45	3+975.0	RT	0.60x0.20 0.75x0.75	SCHOOL SPEED ZONE SPEED LIMIT	S4-3 W3-5 W13-1
46	4+066.5	RT	0.60x0.60 0.375x0525	HOSPITAL SUPPLEMENTAL PLAQUE	D9-2 M6-1R
47	4+077.0	RT	0.75x0.75 0.45x0.45	SCHOOL ADVANCE WARNING SUPPLEMENTAL PLAQUE	S1-1
48	4+091.5	RT	0.60x0.15 0.60x0.15	2 - STREET	D3-1
49	A9+966.0	LT	0.75x0.75	DEAD END	W14-1
50	A10+014.5	LT	0.75x0.75	STOP	R1-1
51	A9+984.0	LT	0.75x0.75	STOP	R1-1
52	A4+135.5	RT	0.55x0.15	STREET	D3-1
53	A9+941.0	LT	0.60x0.75	SPEED LIMIT	R2-1
54	4+087.0	RT	0.75x0.75 0.45x0.45	PEDESTRIAN DRUG FREE SCHOOL ZONE	
55	A9+966.0	LT	0.60x0.60 0.45x 0.45	ROUTE MARKER SNOWMOBILE	M1-6 W11-6
56	4+136.0	RT	0.60x0.60 0.525x0.375 0.90x0.450	TRAIN STATION ARROW HISTORIC MUSEUM	
57	3+383.0	RT	0.90x0.45	NOTICE INCREASE IN TRAIN TRAFFIC	
58	4+018.0	LT	0.90x0.45	NOTICE INCREASE IN TRAIN TRAFFIC	
59	4+307	RT	0.75x0.75 0.60x0.30	SCHOOL CROSSWALK WARNING	S1-1 W16-7P
60	4+348	LT	0.75x0.75 0.60x0.30	SCHOOL CROSSWALK WARNING	S1-1 W16-7P

LEGEND

SYMBOL	DESCRIPTION	GENERAL NOTES
(L)	SIGN REMOVAL	1. * = M.U.T.C.D. NUMBER (BOTTOM) CORRESPONDS WITH NATIONAL SIGN CODE
[L]	RELOCATE EXISTING SIGN	2. ITEM 647.01 M - REMOVAL OF SIGNS SIZE A (0.0 - 1.0 SM)
		3. FOR LOCATION OF SIGN REMOVAL & RELOCATION, SEE DWG. SGP-1 TO SGP-17.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SIGN REMOVAL SHEET

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SRS.DGN	ONE	AUGUST 2011	SRS-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

DESTINATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE AREA (SEE NOTE 3)	PAYMENT AREA (SEE NOTE 3) TOTAL PAYMENT AREA
R1-1	2-4, 4-1, 10-1, 15-4, 15-9 (5)	STOP	645.5202	750 X 750	0.56 m^2
				0.47 m^2	2.8 m^2
D3-1 YELLOW ON BROWN	2-3 (1)	CAROLYN RD	645.5102	1200 X 300	0.36 m^2
				0.36 m^2	0.36 m^2
R2-1	2-2, 3-1, 9-3, 10-5, 15-1 (5)	SPEED LIMIT 45	645.5102	600 X 750	0.45 m^2
				0.45 m^2	2.25 m^2
R2-1	16-2 (1)	SPEED LIMIT 30	645.5102	600 X 750	0.45 m^2
				0.45 m^2	0.45 m^2
R1-2	15-8 (1)	YIELD	645.5202	900 X 900	0.70 m^2
				0.35 m^2	0.70 m^2
R1-1	15-5, 16-3 (2)		645.5102	900 X 900	0.81 m^2
				0.81 m^2	1.62 m^2

DESTINATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE AREA (SEE NOTE 3)	PAYMENT AREA (SEE NOTE 3) TOTAL PAYMENT AREA
W7-1 W7-2	6-1 (1)	USE LOW GEAR	645.5102	900 X 900 450 X 450	1.01 m^2
				0.81 m^2 0.20 m^2	1.01 m^2
W2-2L	9-2 (1)		645.5102	900 X 900	0.81 m^2
				0.81 m^2	0.81 m^2
D3-1 YELLOW ON BROWN	10-6 (1)	MILL POND DR	645.5102	1425 X 300	0.43 m^2
				0.43 m^2	0.43 m^2
W10-1	10-3, 11-1 (2)	R R	645.5102	900 X 900	0.81 m^2
				0.64 m^2	1.62 m^2
M1-6	2-1, 2-5, 9-1, 10-4, 15-2, 15-11 (6)	ESSEX 35 COUNTY M1-6	645.5102	600 X 600	0.36 m^2
				0.26 m^2	2.16 m^2

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		123	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

GENERAL NOTES:

1. SIGN LOCATIONS AS SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL RELOCATE EXISTING SIGNS AND INSTALL NEW SIGNS IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENT.
2. THE COLOR IS SHOWN ONLY WHEN THERE IS A COLOR OPTION THAT MUST BE SPECIFIED.
3. THE AREA, AND PAYMENT AREA, FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUTS.
4. STREET SIGNS SHALL BE BROWN BACKGROUND WITH YELLOW LEGEND/BORDER.

ITEM	DESCRIPTION	UNITS
645.5102M	GROUND-MOUNTED SIGN PANELS ≤ 2.78 SM W/ Z-BARS	SM
645.5202M	GROUND-MOUNTED SIGN PANELS ≤ 2.78 SM W/ Z-BARS, HIGH VISIBILITY SHEETING	SM
645.81M	TYPE A SIGN POST	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SIGN DATA SHEET
SHEET 1 OF 2

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPH_NYM_SIGN	ONE	AUGUST 2011	SDS-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

DESTINATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE AREA (SEE NOTE 3)	PAYMENT AREA (SEE NOTE 3) TOTAL PAYMENT AREA
S4-5	15-6, 17-1 [2]		645.5202	900 X 900	0.81 m^2
				0.81 m^2	1.62 m^2
D9-2 WHITE ON BLUE M6-1L WHITE ON BLUE	10-2 [2]		645.5102	600 X 600 600 X 300	0.54 m^2
				0.36 m^2 0.18 m^2	0.54 m^2
D9-2 WHITE ON BLUE M6-3 WHITE ON BLUE	15-7 [1]		645.5102	600 X 600 600 X 300	0.54 m^2
				0.36 m^2 0.18 m^2	0.54 m^2
D3-1 YELLOW ON BROWN	15-3 [1]	STATION ST	645.5102	1125 X 300	0.34 m^2
				0.34 m^2	0.34 m^2
D3-1 YELLOW ON BROWN	15-10 [1]	AVERYVILLE RD	645.5102	1500 X 300	0.45 m^2
				0.45 m^2	0.45 m^2
W14-1	16-1 [1]	DEAD END	645.5102	750 X 750	0.56 m^2
				0.56 m^2	0.56 m^2

DESTINATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE AREA (SEE NOTE 3)	PAYMENT AREA (SEE NOTE 3) TOTAL PAYMENT AREA
OM3-R	12-2, 12-3 [2]		645.5101	300 X 900	0.27 m^2
				0.27 m^2	0.54 m^2
OM3-L	12-1, 12-4 [2]		645.5101	300 X 900	0.27 m^2
				0.27 m^2	0.54 m^2

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		124	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

GENERAL NOTES:

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2. THE COLOR IS SHOWN ONLY WHEN THERE IS A COLOR OPTION THAT MUST BE SPECIFIED.
3. THE AREA, AND PAYMENT AREA, FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUTS.
4. STREET SIGNS SHALL BE BROWN BACKGROUND WITH YELLOW LEGEND/BORDER.

ITEM	DESCRIPTION	UNITS
645.5102M	GROUND-MOUNTED SIGN PANELS ≤ 2.78 SM W/ Z-BARS	SM
645.5202M	GROUND-MOUNTED SIGN PANELS ≤ 2.78 SM W/ Z-BARS, HIGH VISIBILITY SHEETING	SM
645.81M	TYPE A SIGN POST	EA

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SIGN DATA SHEET
SHEET 2 OF 2

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

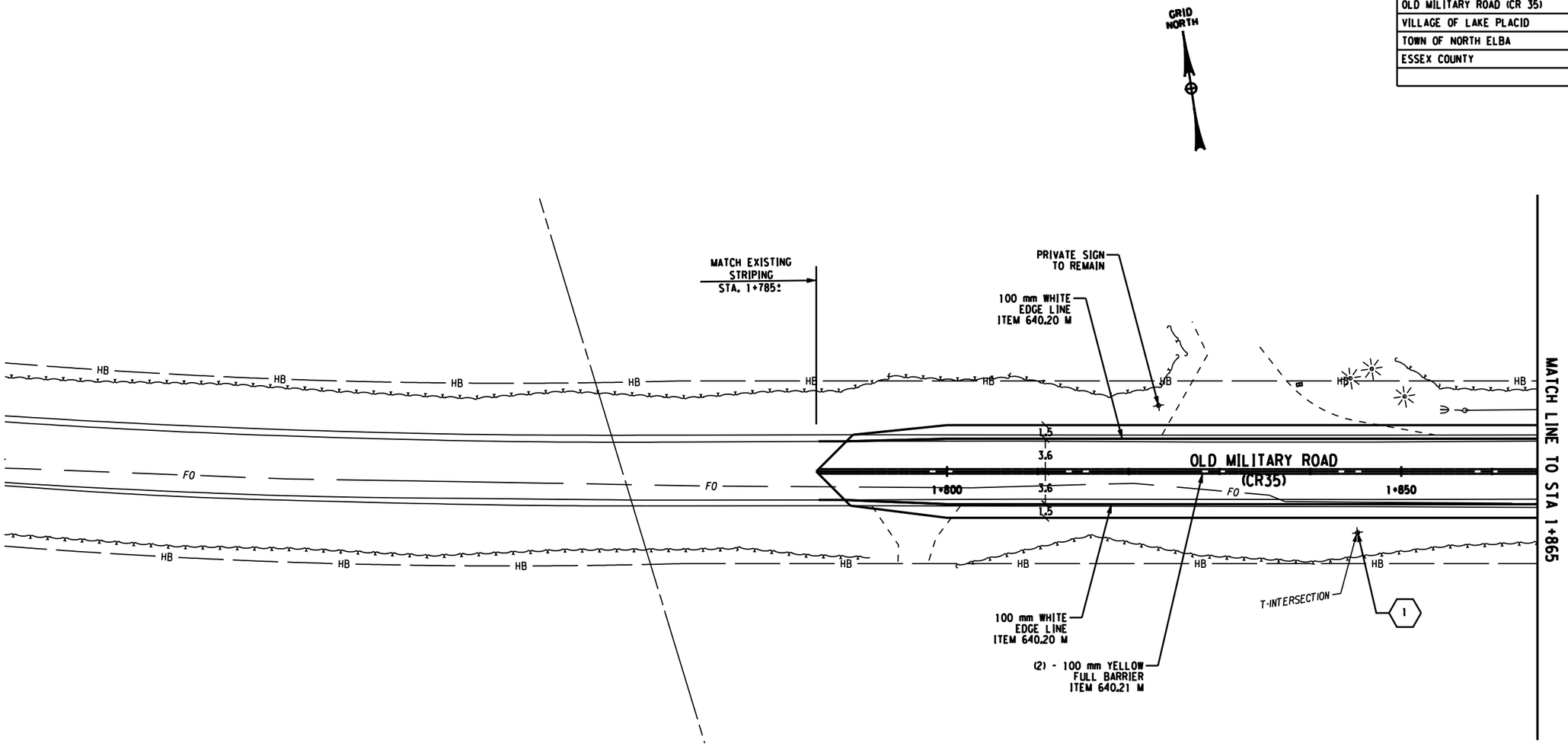
DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPH_NYM_SIGN	ONE	AUGUST 2011	SDS-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		125	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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- RELOCATE EXISTING SIGN

5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SIGNING AND PAVEMENT MARKING PLAN

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

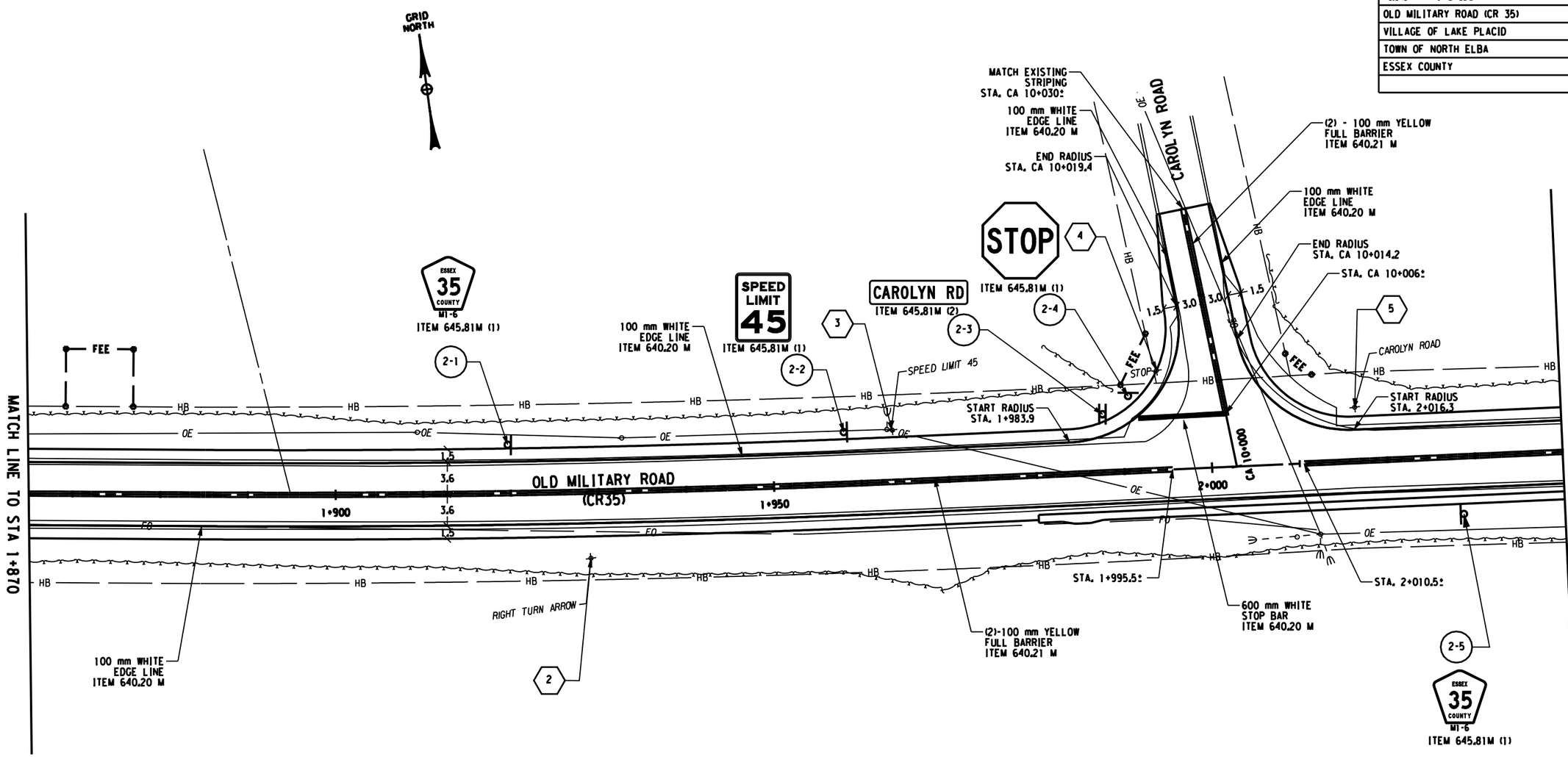
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_01	ONE	AUGUST 2011	SGP-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		126	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
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Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_02	ONE	AUGUST 2011	SGP-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		127	205

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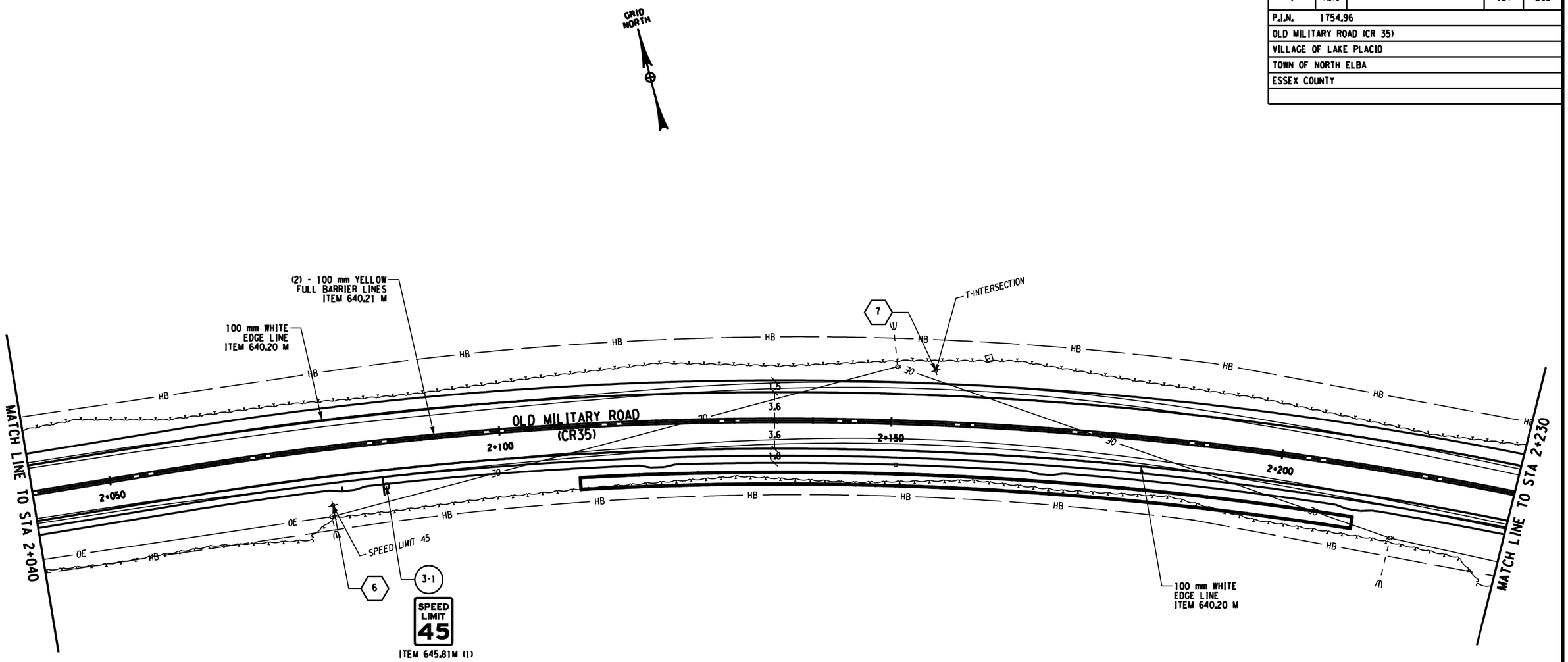
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_03	ONE	AUGUST 2011	SGP-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
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1	N.Y.		128	205

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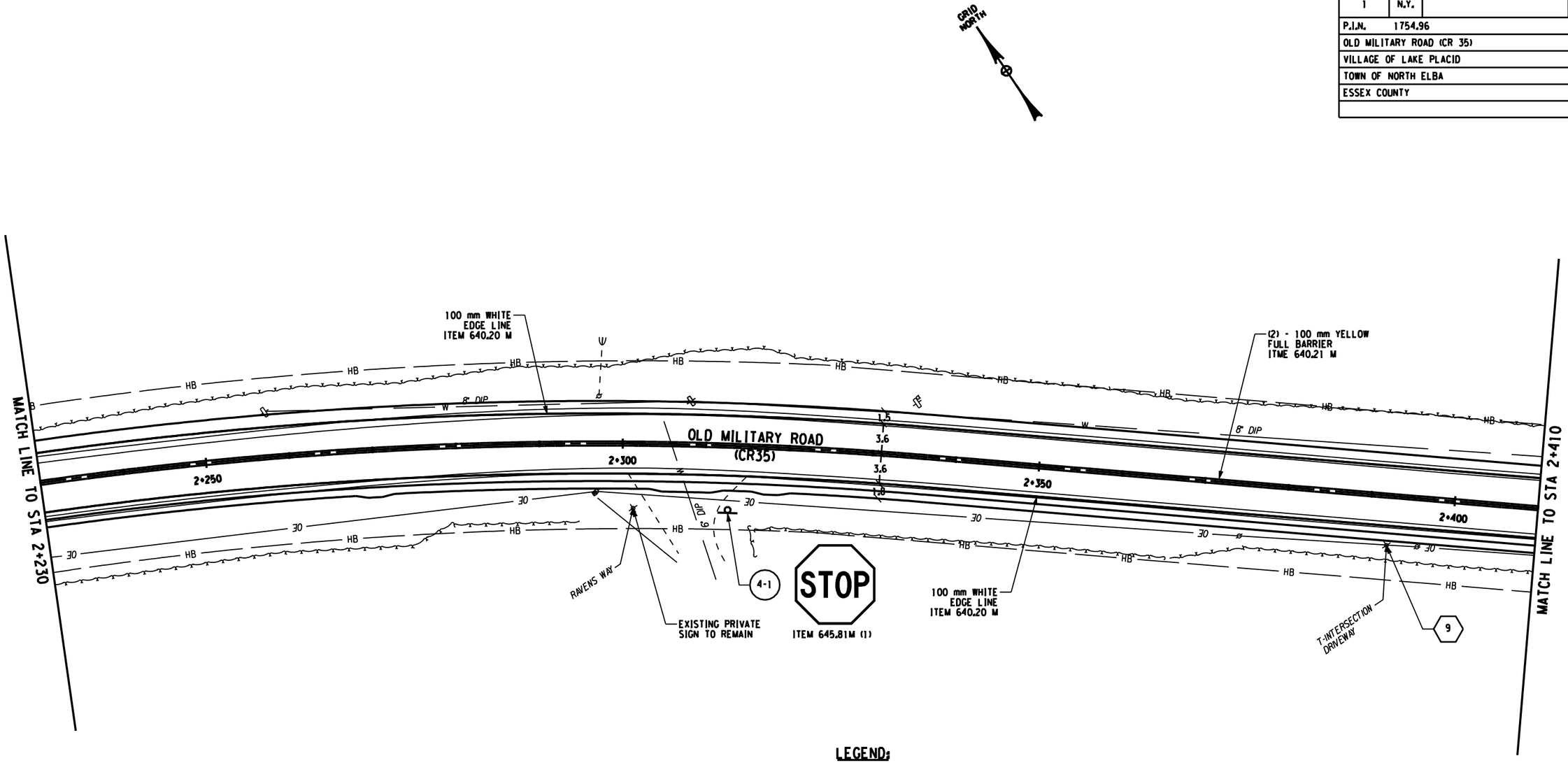
OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY



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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPH.SGP.04	ONE	AUGUST 2011	SGP-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN CHECKED BY K. BALDWIN

FILE NAME =
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1	N.Y.		129	205

P.I.N. 1754.96
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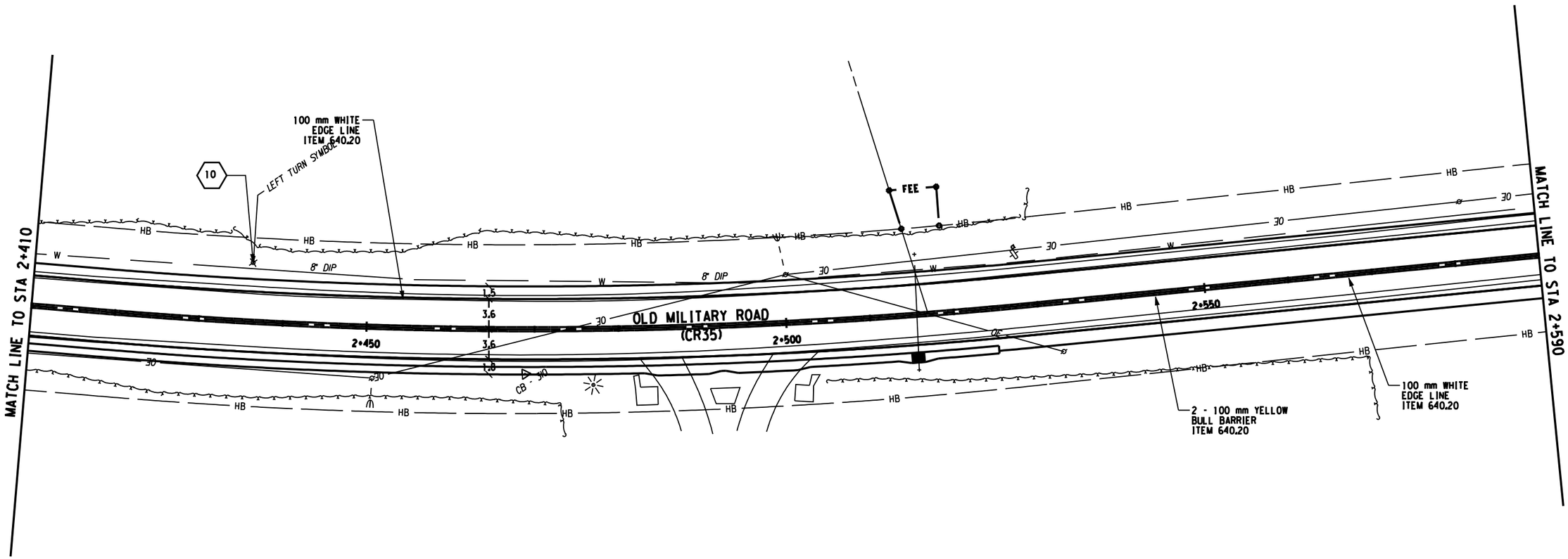
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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Hanover Square, 435 New Karner Road
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ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_05	ONE	AUGUST 2011	SGP-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
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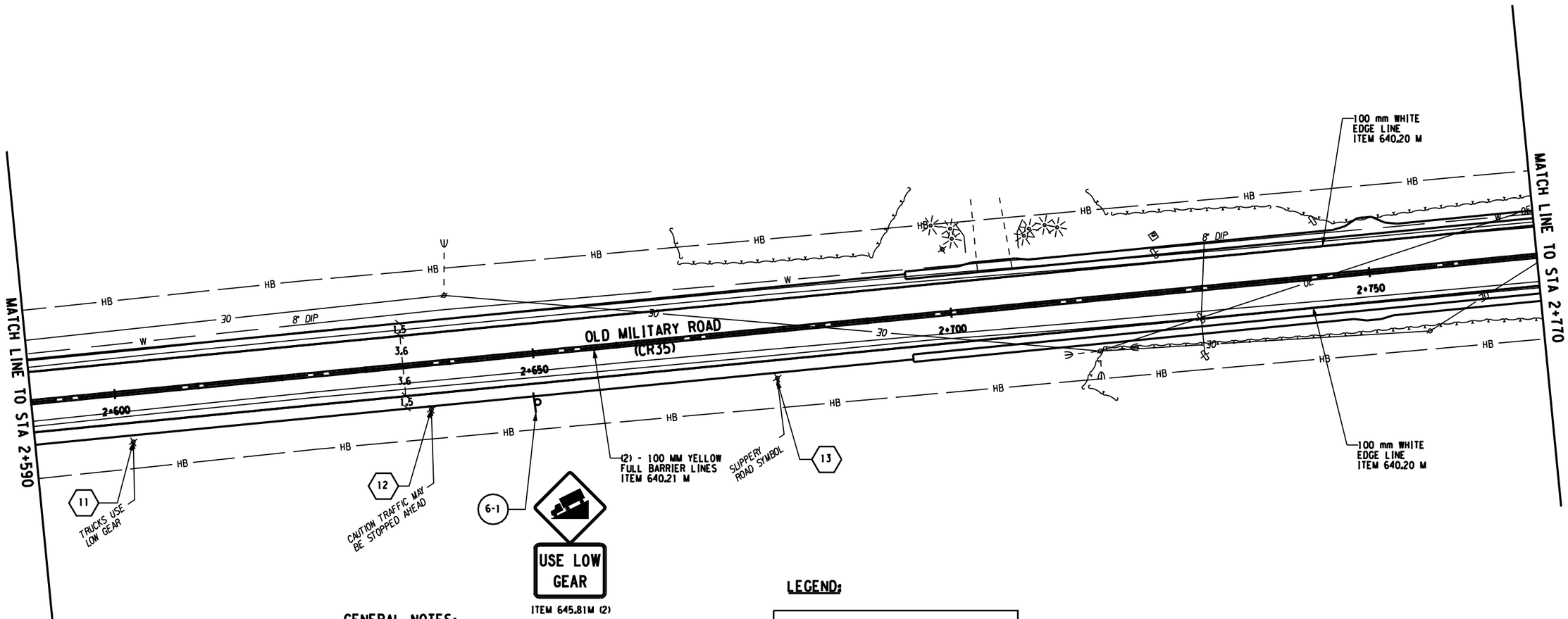
OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY



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ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

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Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_06	ONE	AUGUST 2011	SGP-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
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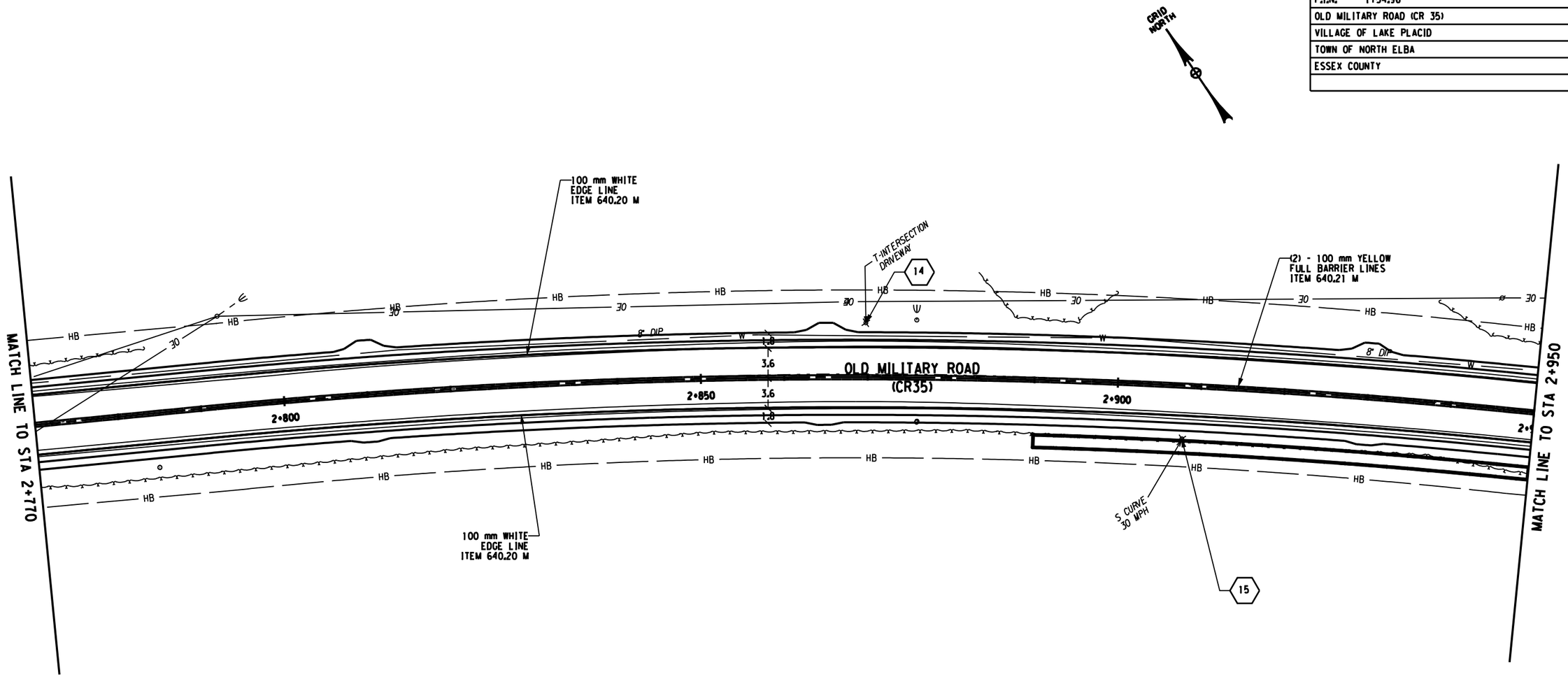
1	N.Y.		131	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_07	ONE	AUGUST 2011	SGP-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN

FILE NAME =
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1	N.Y.		132	205

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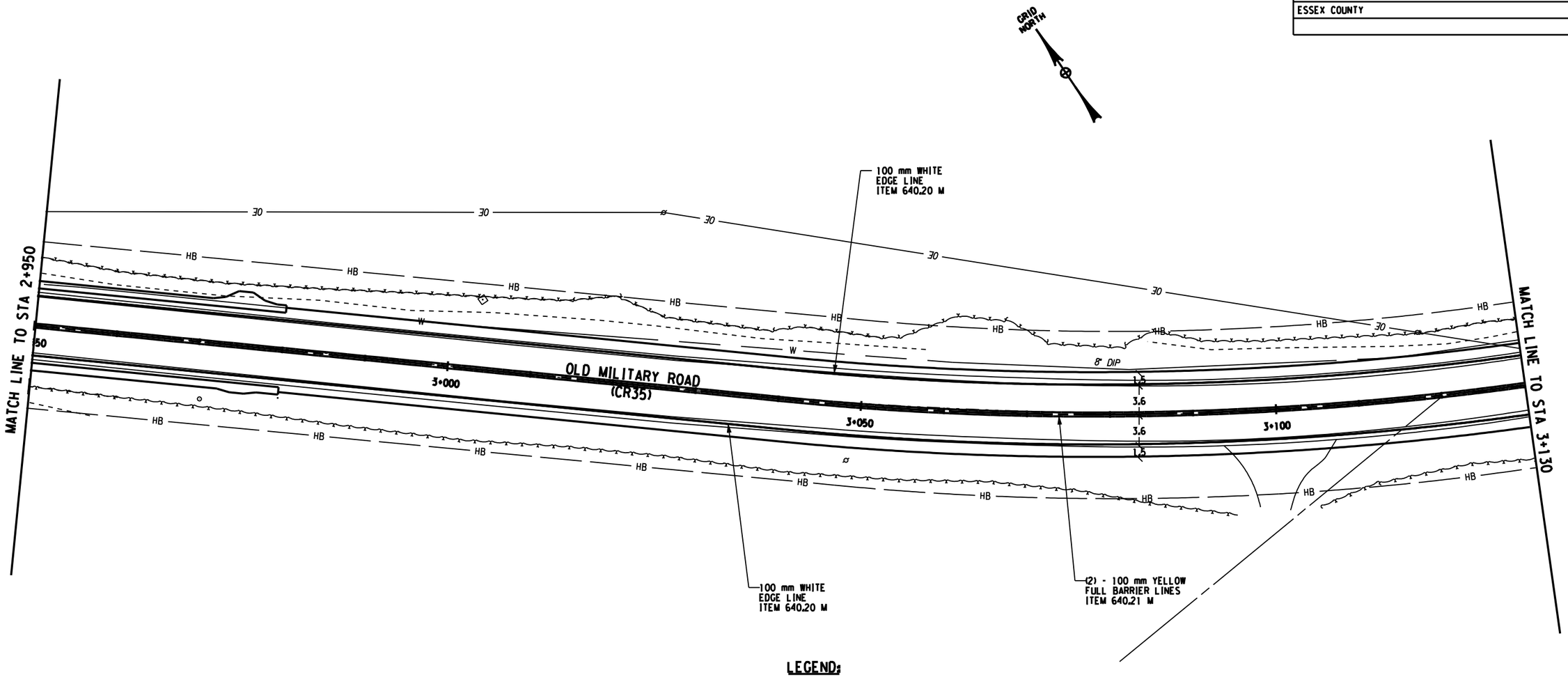
OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY



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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_08	ONE	AUGUST 2011	SGP-8

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN CHECKED BY K. BALDWIN

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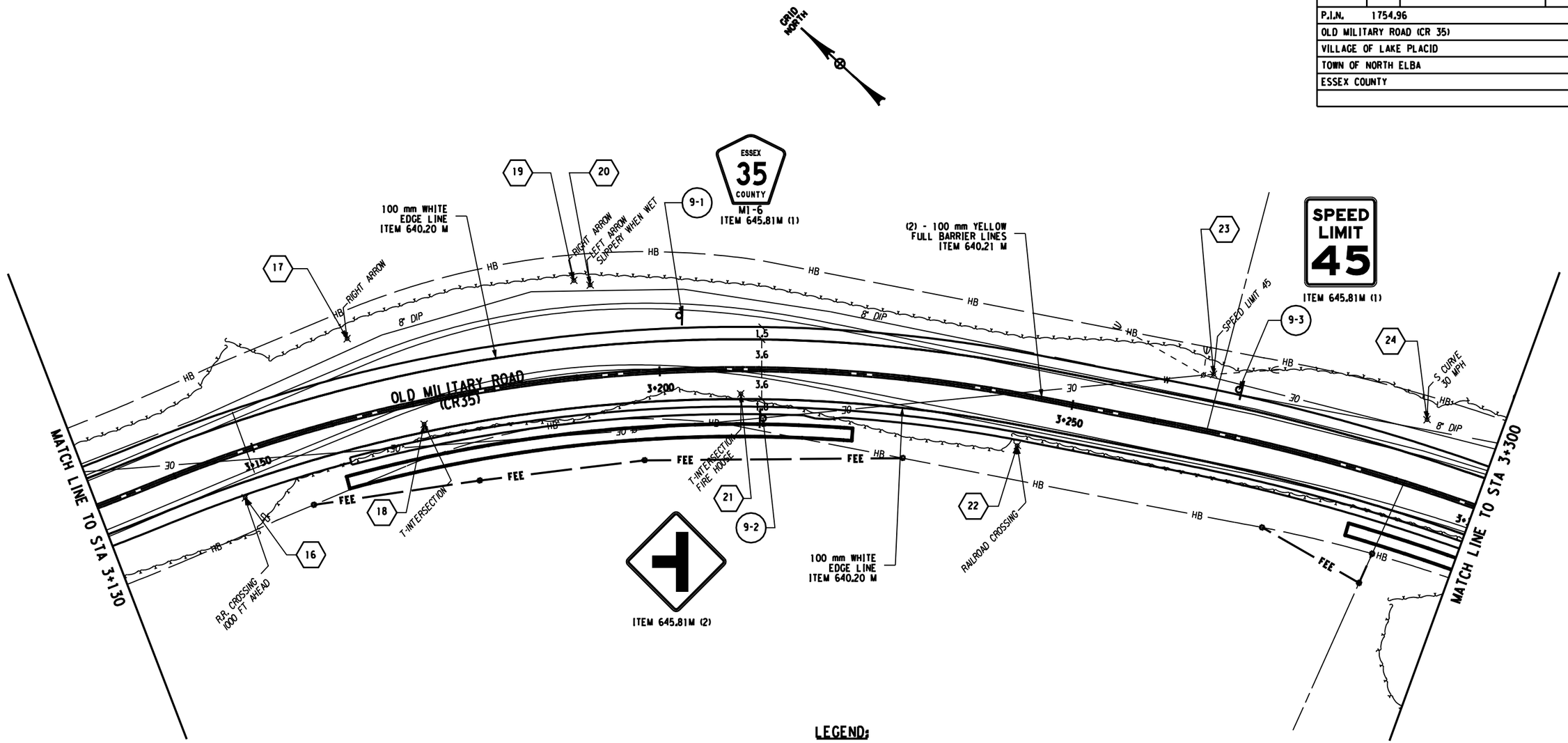

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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH.SGP.09	ONE	AUGUST 2011	SGP-9

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

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1	N.Y.		134	205

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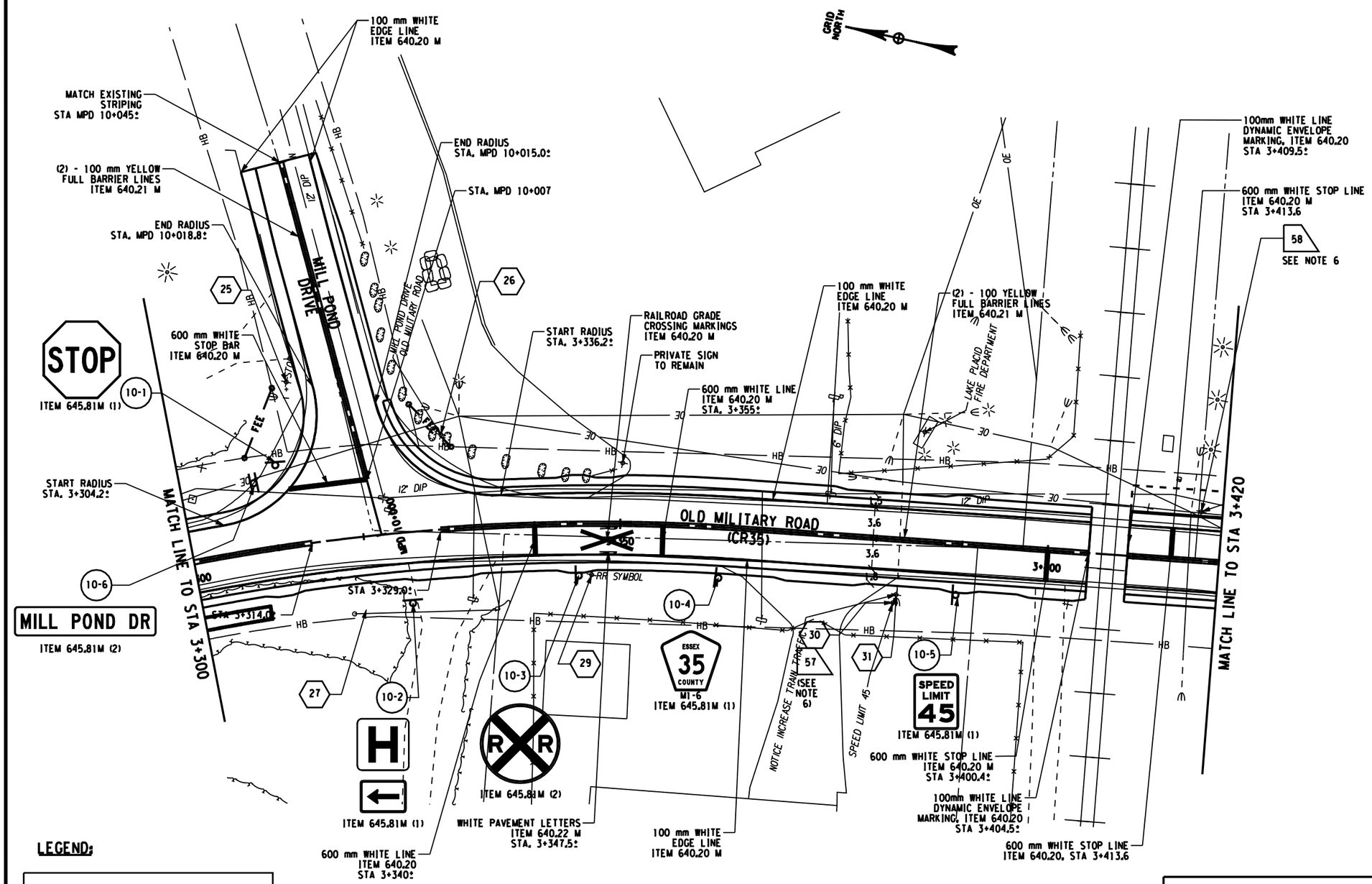
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



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6. "NOTICE INCREASE TRAIN TRAFFIC" SIGN SHALL BE RELOCATED.
7. LOCATION OF "X" PAVEMENT MARKING SHALL BE BASED UPON 45 MPH SPEED OR GREATER.
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5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SIGNING AND PAVEMENT MARKING PLANS

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_10	ONE	AUGUST 2011	SGP-10

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		135	205

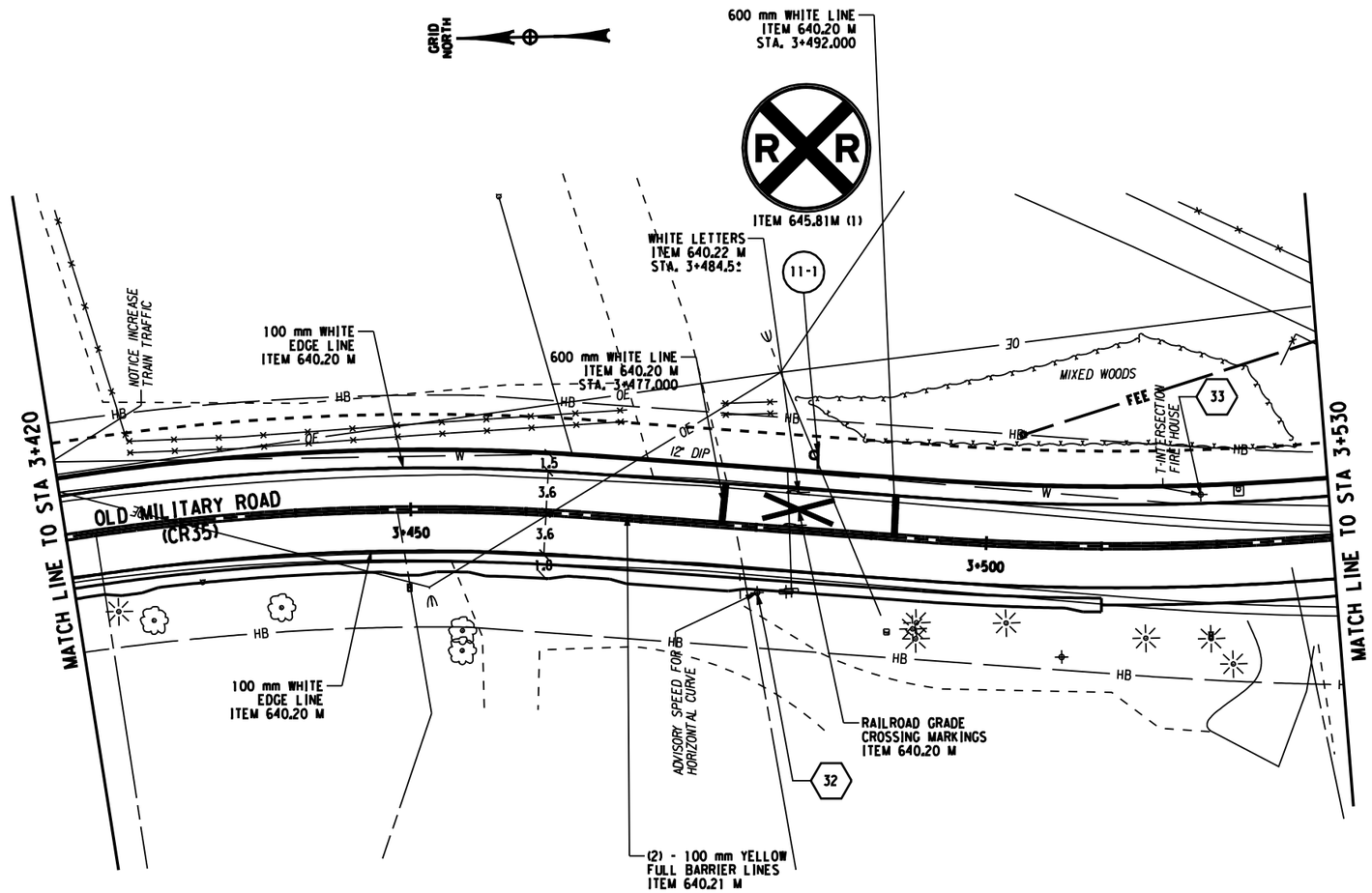
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

TOWN OF NORTH ELBA

ESSEX COUNTY



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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_11	ONE	AUGUST 2011	SGP-11

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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VILLAGE OF LAKE PLACID
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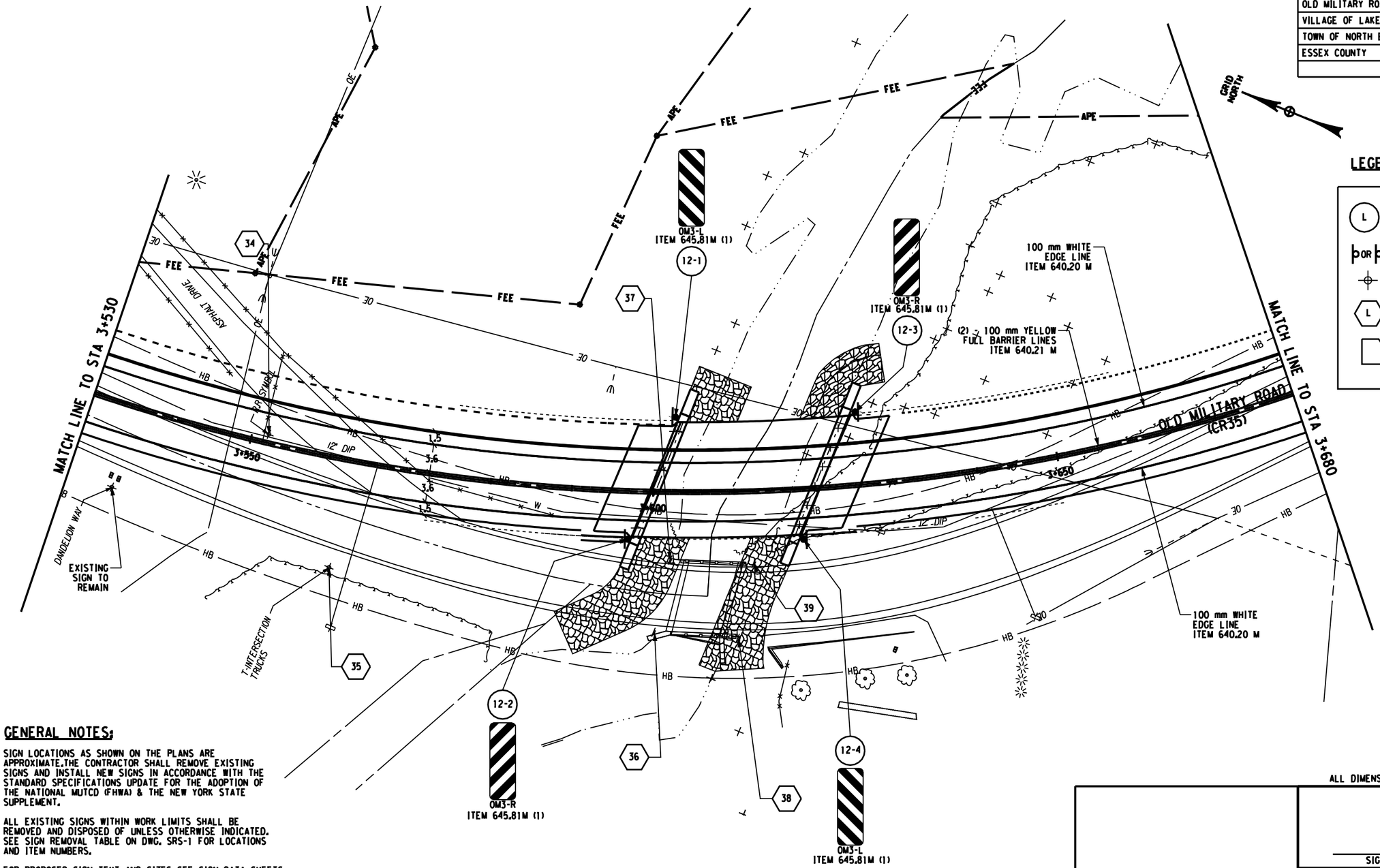

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ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_12	ONE	AUGUST 2011	SGP-12

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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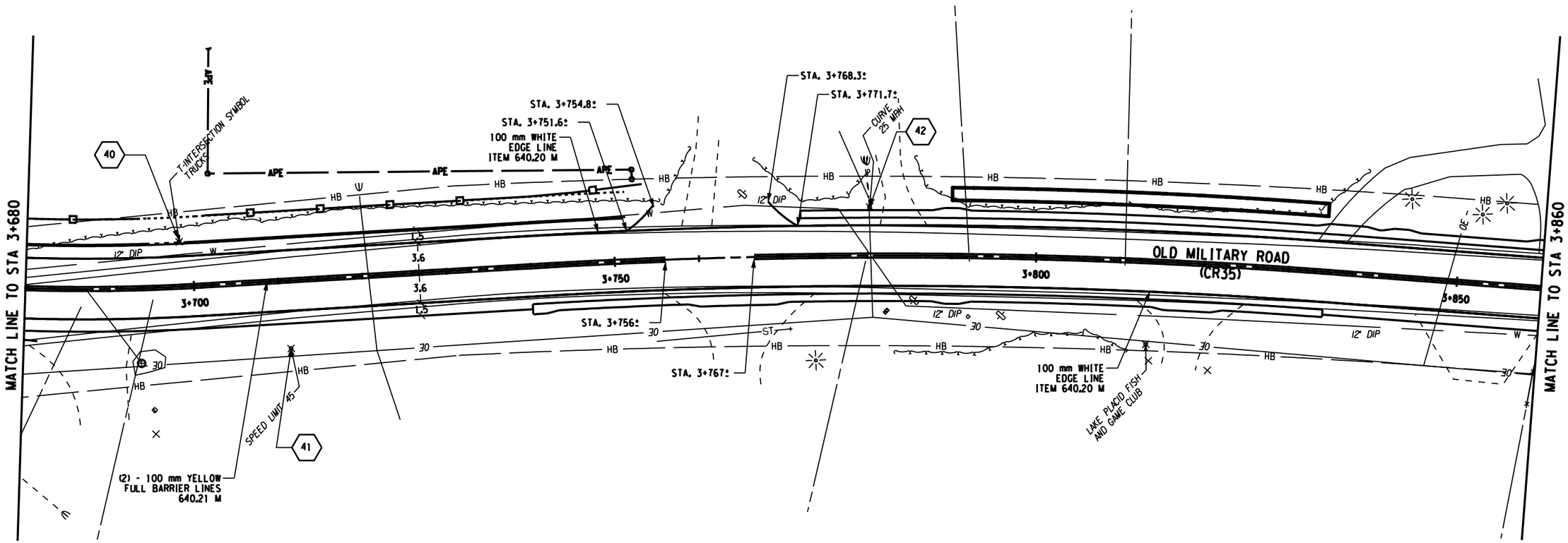

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Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_13	ONE	AUGUST 2011	SGP-13

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN
CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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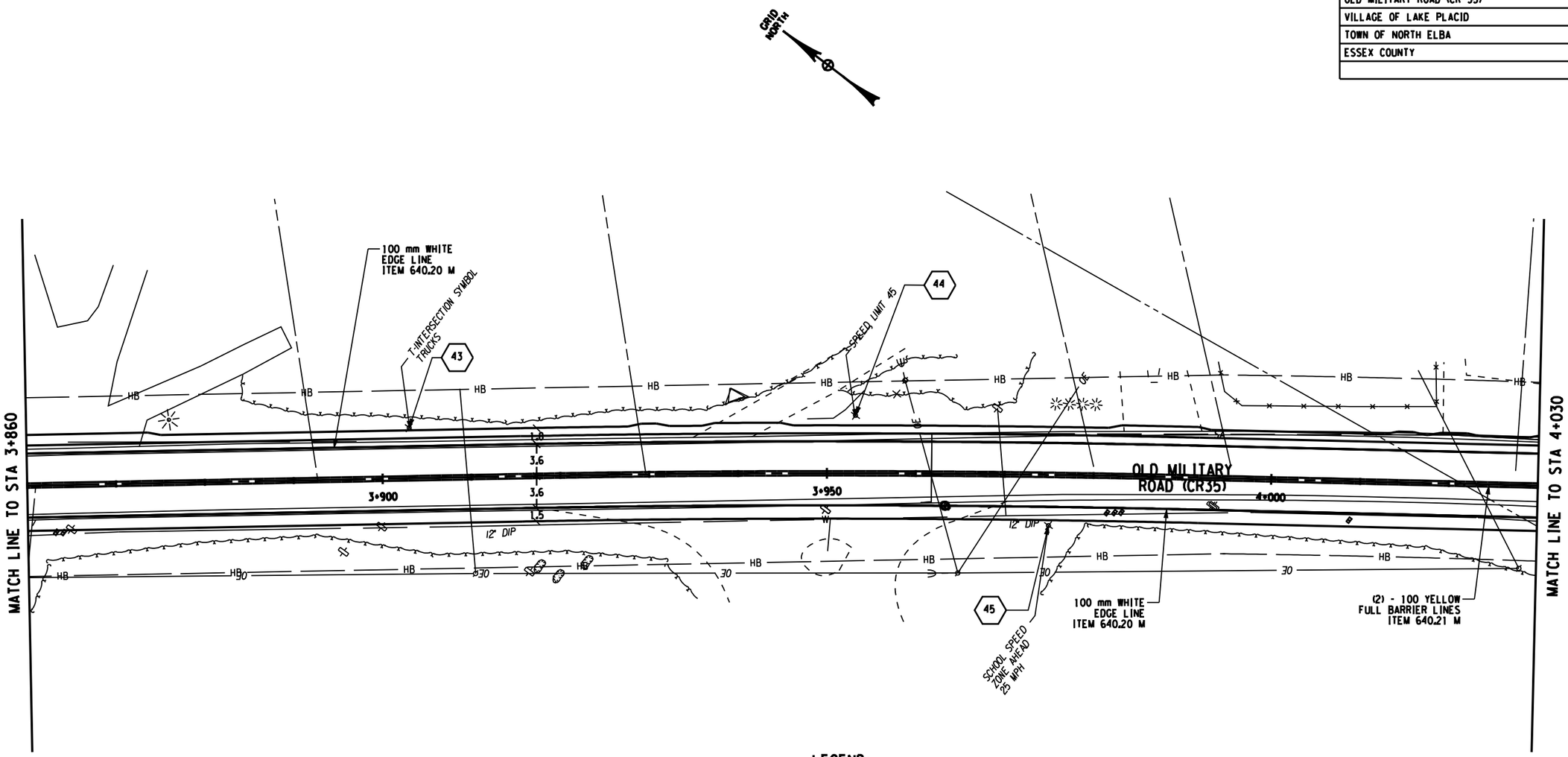

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ESSEX COUNTY
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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPH.SGP.14	ONE	AUGUST 2011	SGP-14

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
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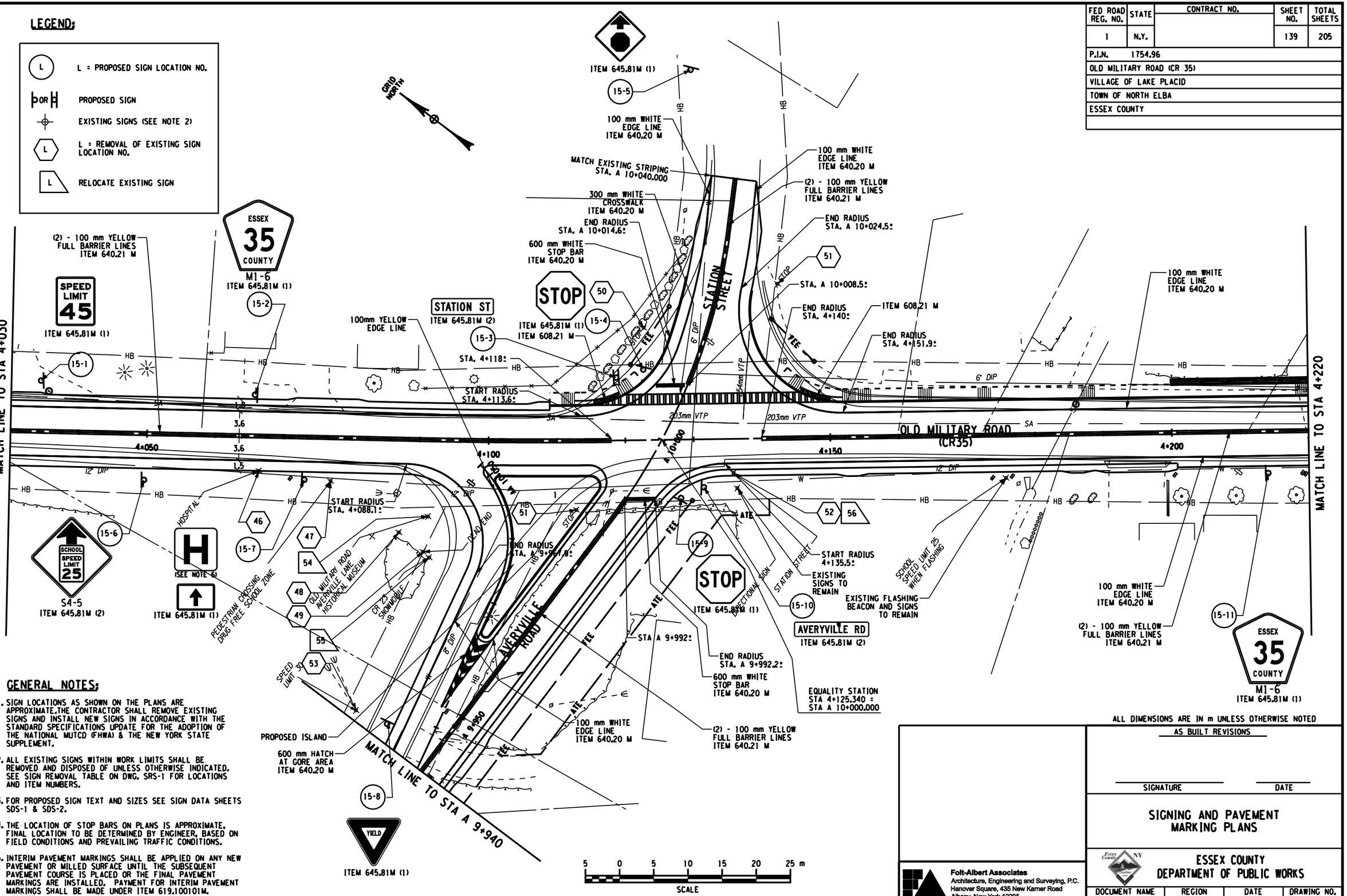

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ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPH.SGP.15	ONE	AUGUST 2011	SGP-15

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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OLD MILITARY ROAD (CR 35)

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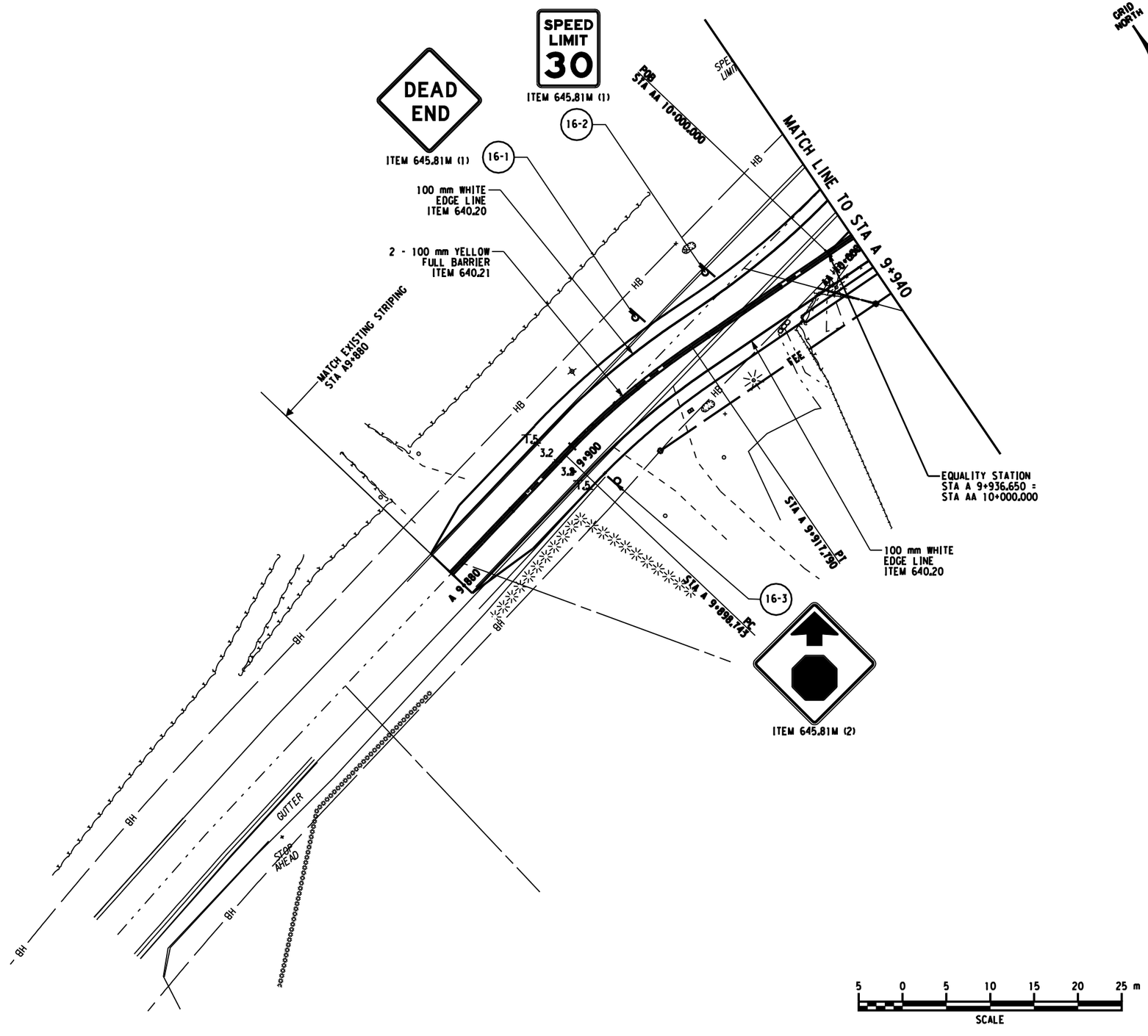

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ESSEX COUNTY NY

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DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_SGP_16	ONE	AUGUST 2011	SGP-16

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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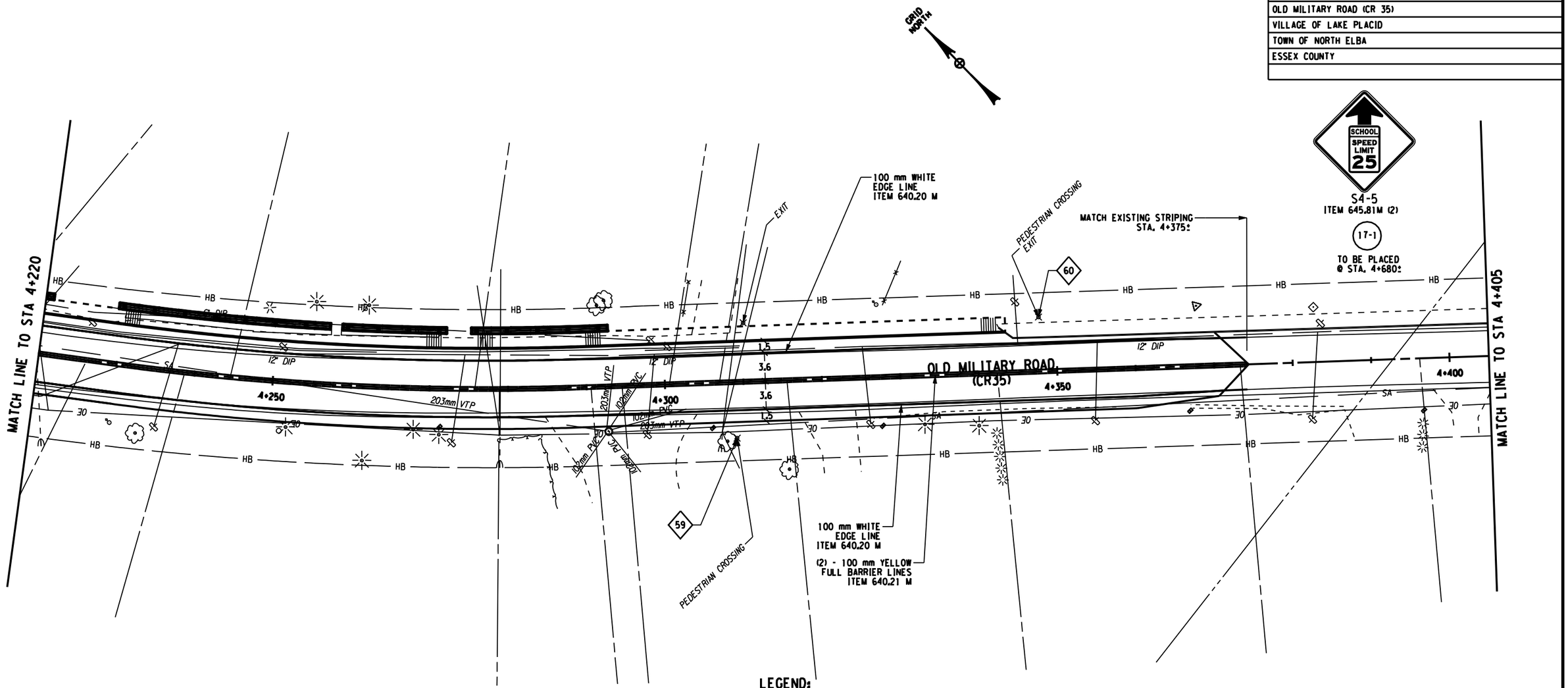

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Plant Schedule

Key	Botanical Name	Common Name	Quantity	Size	Root	Remarks	Pay Item
AU	Arctostaphylos 'uva-ursi'	Bearberry	104	0.30 m Ht. (spring)	#1 container	Substitute: Arctostaphlos 'uva massachusetts'	611.040123
AA	Aronia melanocarpa 'Autumn Magic'	Autumn Magic Black Chokecherry	33	0.60 m Ht.	#3 container		611.040143
AE	Aronia melanocarpa 'Elata'	Glossy Black Chokecherry	55	0.60 m Ht.	#3 container		611.040143
CR	Cornus racemosa	Gray Dogwood	48	0.76 m Ht.	Balled and burlap		611.040152
CI	Cornus sericea 'Isanti'	Isanti Dogwood	58	0.60 m Ht.	Balled and burlap	Or #3 container	611.020142
HV	Hamamelis virginiana	Common Witchhazel	42	1.20 m Ht.	Balled and burlap		611.020133
LT	Lonicera tartarica 'Arnold's Red'	Arnold's Red Honeysuckle	24	0.91 m Ht.	Balled and burlap		611.040152
MP	Myrica pensylvanica	Bayberry	60	0.60 m Ht.	#3 container		611.040143
PM	Pinus Mugo	Mugo Pine	23	0.46 m to 0.60 m Spread	#5 container		611.030155
PS	Pinus Strobus	White Pine	24	1.83 m Ht.	Balled and burlap		611.030165
VD	Viburnum dentatum	Arrowwood	43	0.91 m Ht.	Balled and burlap		611.040152
VB	Viburnum dentatum 'blubzam'	Blue Blaze Arrowwood	59	0.76 m Ht.	Balled and burlap		611.040142
*	All varietal forms are selections from native plants selected for form and hardiness						

LANDSCAPE NOTES

1. ITEMS SHOWN ON THE CONTRACT DRAWINGS HAVE BEEN SUBMITTED TO THE ADIRONDACK PARK AGENCY (APA) AND APPROVED AS PART OF THE PERMIT PROCESS. THE CONTRACTOR WILL NOT DEVIATE FROM THE PROPOSED ITEM LISTS.

2. CLEARING LIMITS SHOWN IN THE TABLE ON CONTRACT DRAWING MTD-4 HAVE BEEN REVIEWED AND APPROVED BY THE APA. NO VARIATIONS OR DEVIATIONS WILL BE ACCEPTED.

3. THE CONTRACTOR WILL STAKE AND FLAG THE CUTTING LIMITS FOR APPROVAL BY THE RESIDENT ENGINEER PRIOR TO CUTTING.

4. FOR TURF RE-ESTABLISHMENT, THE CONTRACTOR WILL USE THE FOLLOWING ITEMS:

ITEM 610.0203 • SEEDING, ROADSIDE AND SHOULDERS

ANNUAL RYEGRASS	8 KG/HA
PERENNIAL RYEGRASS	8 KG/HA

ITEM 610.0203 • SEEDING, LAWN AREAS

RED FESCUE (FESTUCA RUBRA)	9.5 KG/HA
PERENNIAL RYEGRASS	5.5 KG/HA
WHITE CLOVER (TRIFOLIUM REPENS)	1 KG/HA

5. TREES AND SHRUBS WILL BE PAID UNDER THE FOLLOWING ITEM NUMBERS:

611.0201 - PLANTING - MINOR DECIDUOUS TREES
611.0301 - PLANTING - CONIFEROUS TREES
611.0401 - PLANTING - DECIDUOUS SHRUBS

REFER TO LANDSCAPE SHEETS LGP-2 THROUGH LGP-10 FOR LOCATIONS AND QUANTITIES OF EACH.

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STATE OF NEW YORK
RONALD J. YATES III
088635
LICENSED PROFESSIONAL ENGINEER

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135 Calkins Road, Suite A
Rochester, New York 14623

LANDSCAPE GENERAL PLANS
(SHEET 1 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

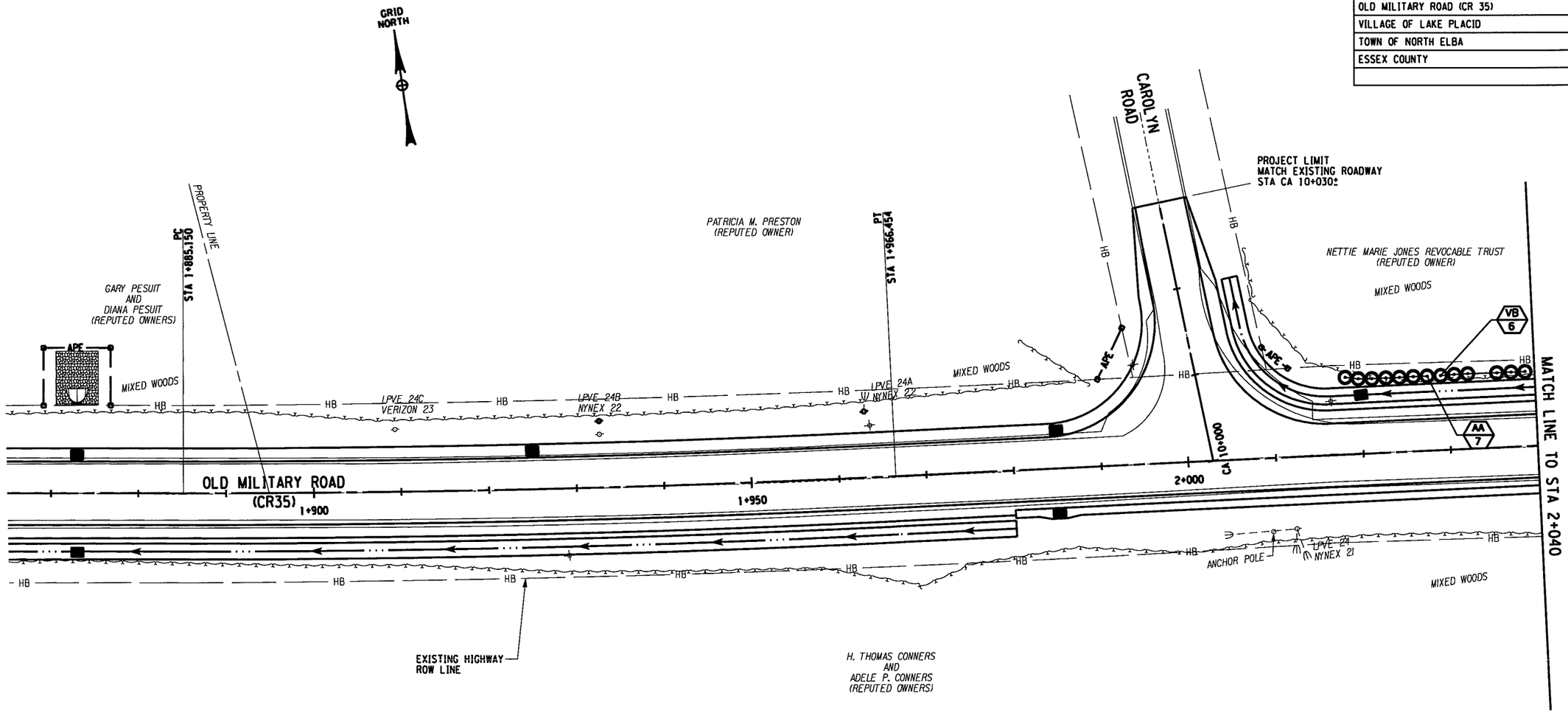
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_02	ONE	AUGUST 2011	LGP-1

FILE NAME =
DATE/TIME = AUGUST 18, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		143	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

LEGEND:

- VB 6 = PROPOSED PLANTING (KEY/QUANTITY) SEE TABLE, DWG. NO. LGP-1
- = PROPOSED SHRUB
- = PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

STATE OF NEW YORK
RONALD J. YATES
088635
LICENSED PROFESSIONAL ENGINEER

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Rochester, New York 14623

AS BUILT REVISIONS

SIGNATURE DATE

LANDSCAPE GENERAL PLANS
(SHEET 2 OF 10)

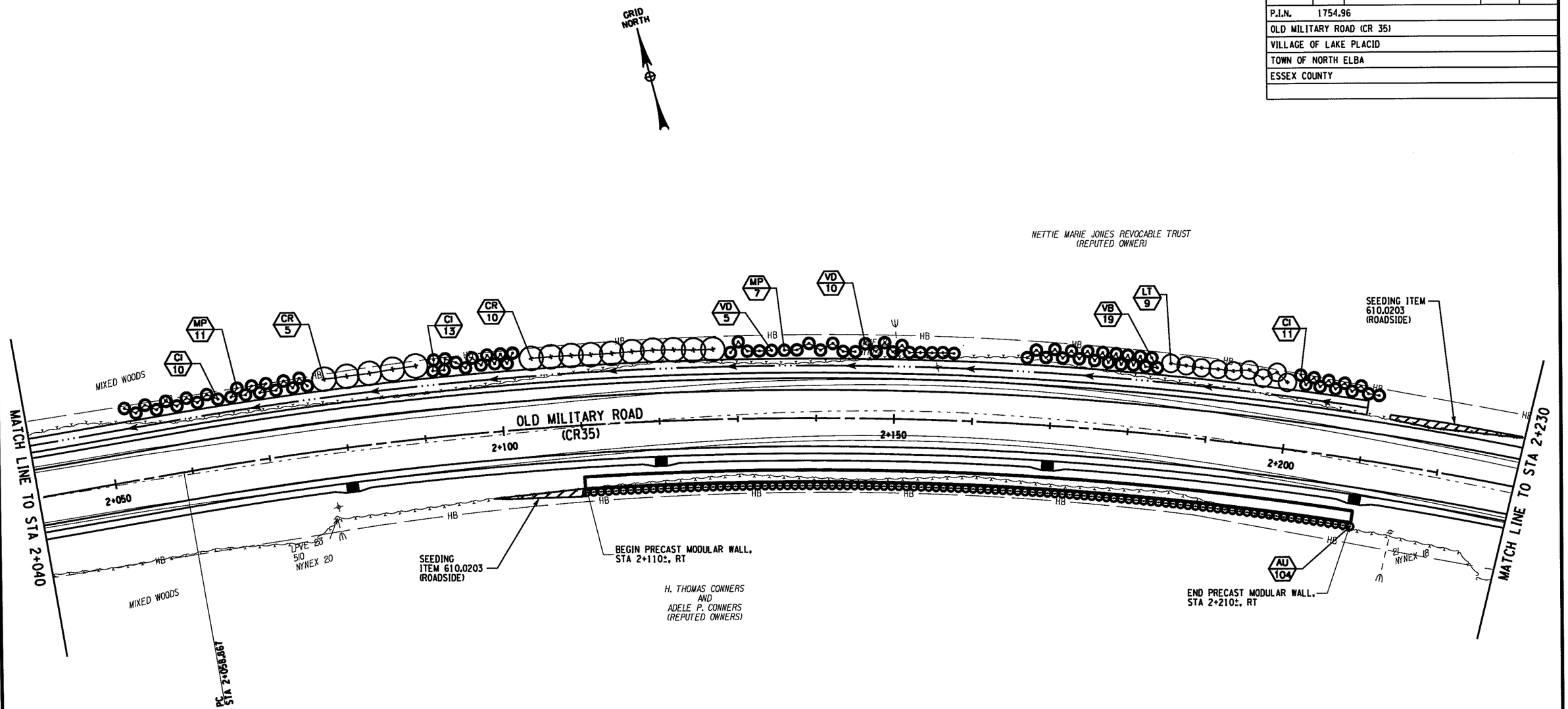
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_02	ONE	AUGUST 2011	LGP-2

ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		144	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

LEGEND:

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- = PROPOSED SHRUB
- = PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

STATE OF NEW YORK
RONALD J. YATES III
088635
LICENSED PROFESSIONAL ENGINEER

AS BUILT REVISIONS

SIGNATURE DATE

LANDSCAPE GENERAL PLANS
(SHEET 3 OF 10)

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

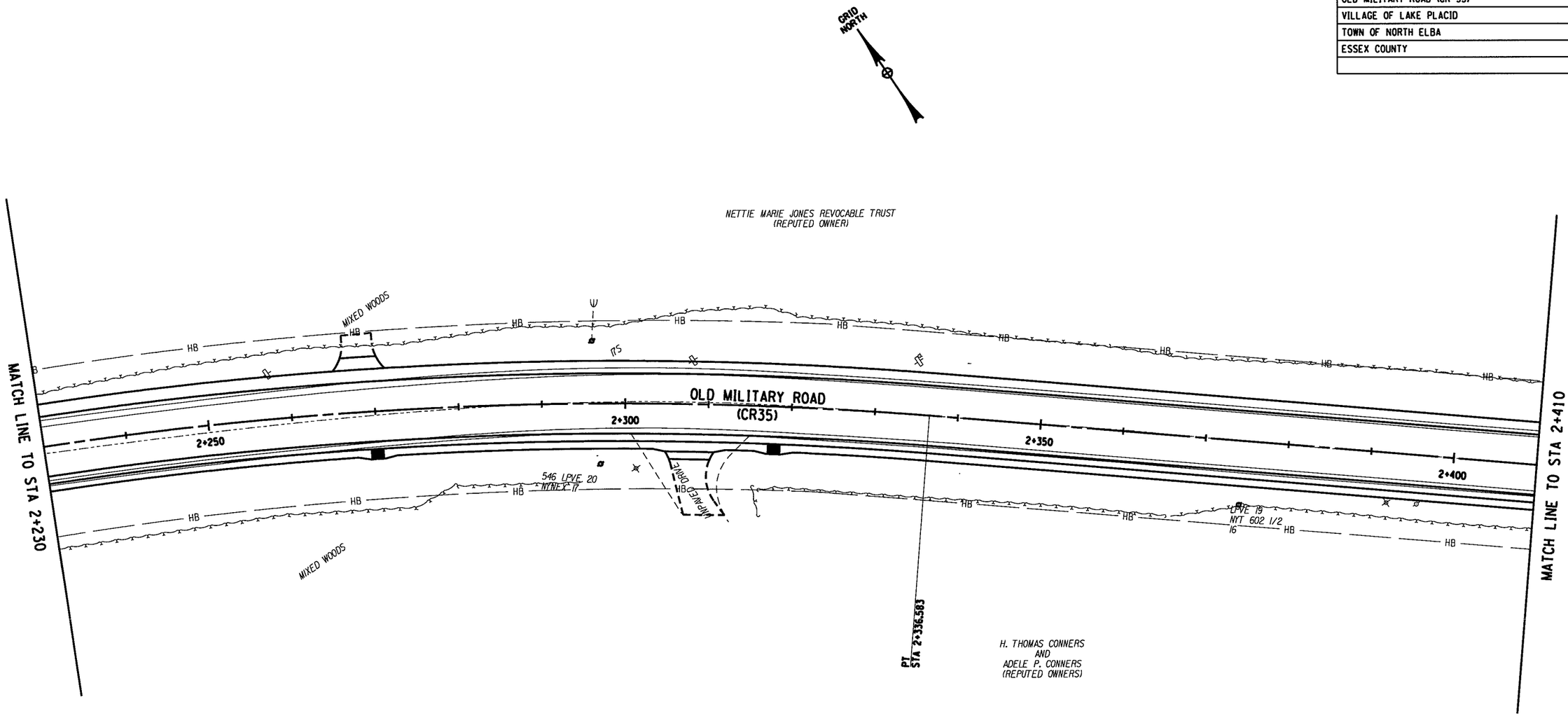
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_03	ONE	AUGUST 2011	LGP-3

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN CHECKED BY W.SHAW

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		145	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

LEGEND:

VB 6 = PROPOSED PLANTING (KEY/QUANTITY) SEE TABLE, DWG. NO. LGP-1

= PROPOSED SHRUB

= PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

STATE OF NEW YORK
RONALD J. YANESKI
088635
LICENSED PROFESSIONAL ENGINEER

Fisher Associates, PE, LS, PC
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Rochester, New York 14623

AS BUILT REVISIONS

SIGNATURE DATE

LANDSCAPE GENERAL PLANS
(SHEET 4 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

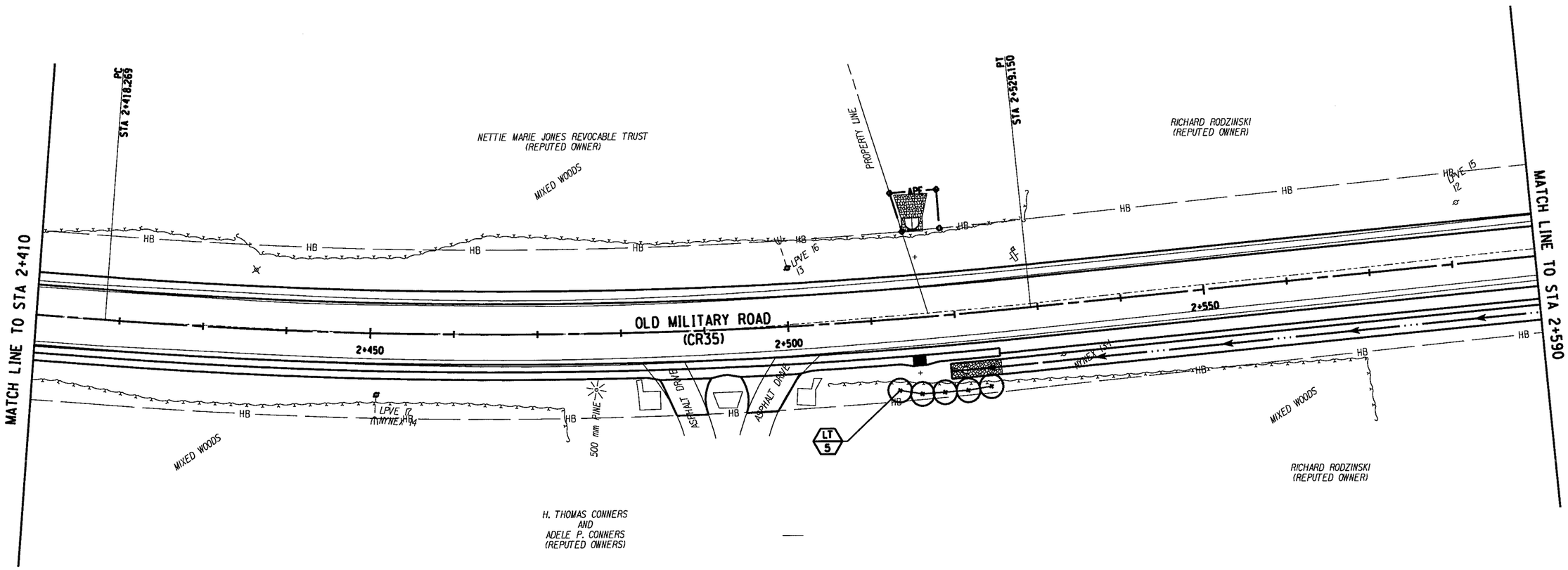
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_04	ONE	AUGUST 2011	LGP-4

FILE NAME =
DATE/TIME = AUGUST 18, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		146	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

LEGEND:

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- = PROPOSED SHRUB
- = PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

STATE OF NEW YORK · RONALD J. YATES III · 088635 · LICENSED PROFESSIONAL ENGINEER

Fisher Associates, PE, LS, PC
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Rochester, New York 14623

AS BUILT REVISIONS

SIGNATURE DATE

LANDSCAPE GENERAL PLANS (SHEET 5 OF 10)

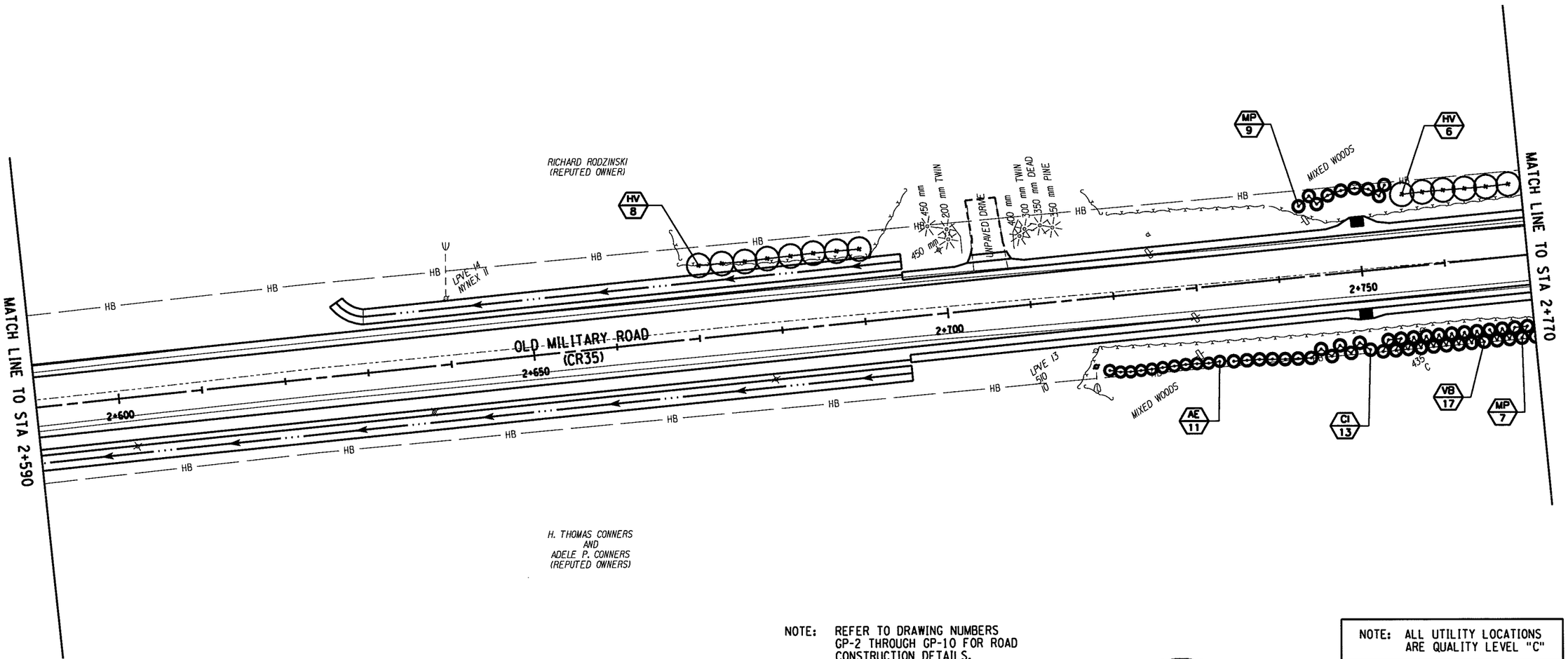
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_05	ONE	AUGUST 2011	LGP-5

ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
FILE NAME = DATE/TIME = AUGUST 18, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		147	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

LEGEND:

- VB 6 = PROPOSED PLANTING (KEY/QUANTITY) SEE TABLE, DWG. NO. LGP-1
- = PROPOSED SHRUB
- = PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

STATE OF NEW YORK · RONALD J. YATES · LICENSED PROFESSIONAL ENGINEER · 088635

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SIGNATURE DATE

LANDSCAPE GENERAL PLANS
(SHEET 6 OF 10)

Fisher Associates, PE, LS, PC
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Rochester, New York 14623

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

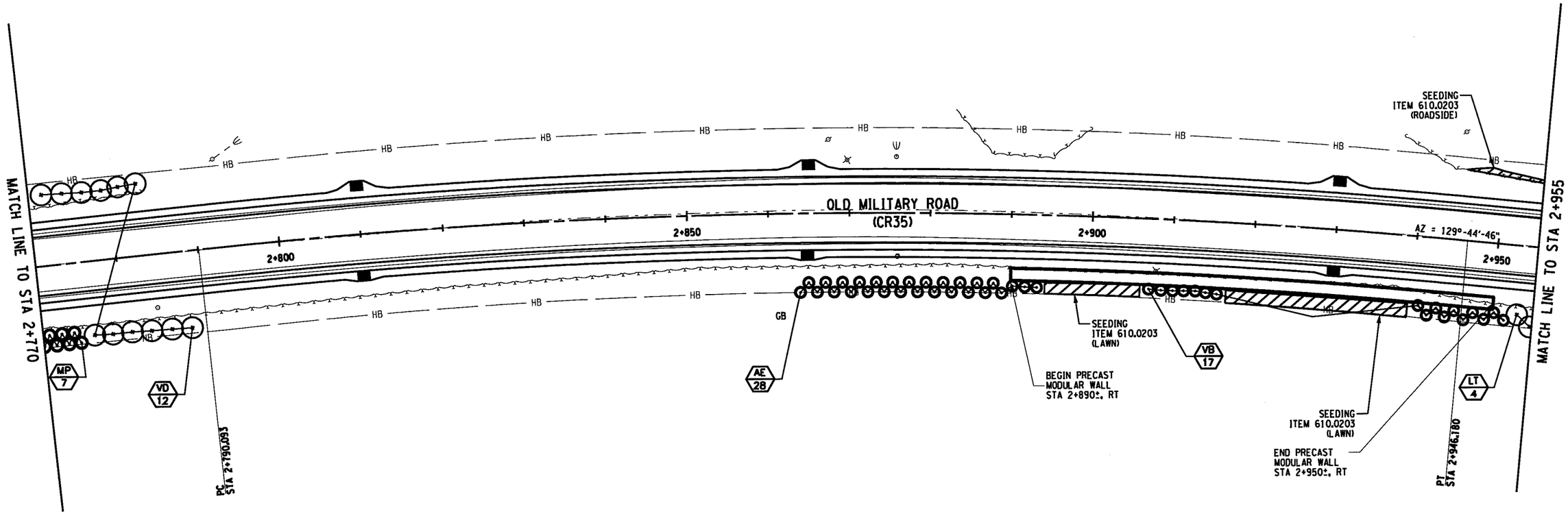
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_06	ONE	AUGUST 2011	LGP-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		148	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

LEGEND:

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- = PROPOSED SHRUB
- = PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

STATE OF NEW YORK
RONALD J. YATES
088635
LICENSED PROFESSIONAL ENGINEER

AS BUILT REVISIONS

SIGNATURE DATE

LANDSCAPE GENERAL PLANS
(SHEET 7 OF 10)

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

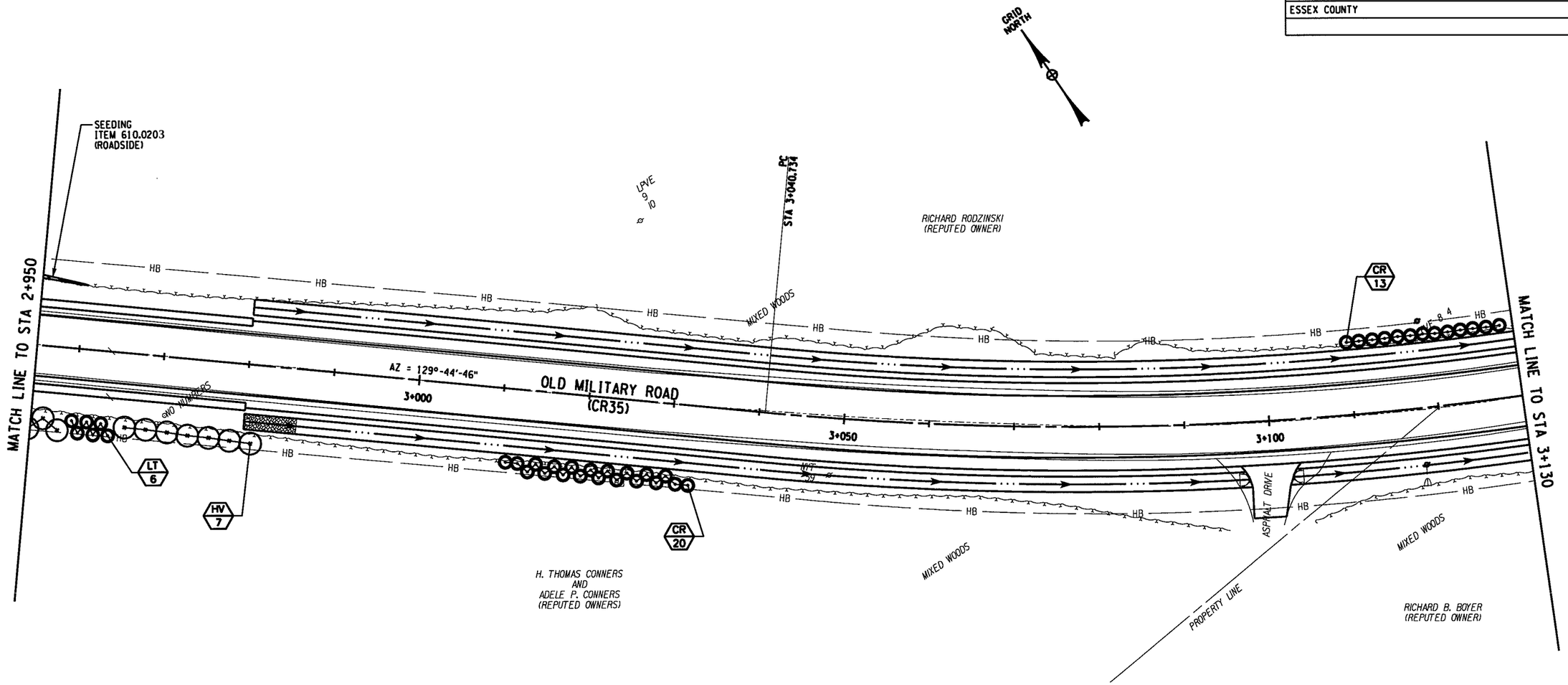
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_07	ONE	AUGUST 2011	LGP-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		149	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

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- = PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

STATE OF NEW YORK
RONALD J. YATES
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Rochester, New York 14623

AS BUILT REVISIONS

SIGNATURE DATE

LANDSCAPE GENERAL PLANS
(SHEET 8 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

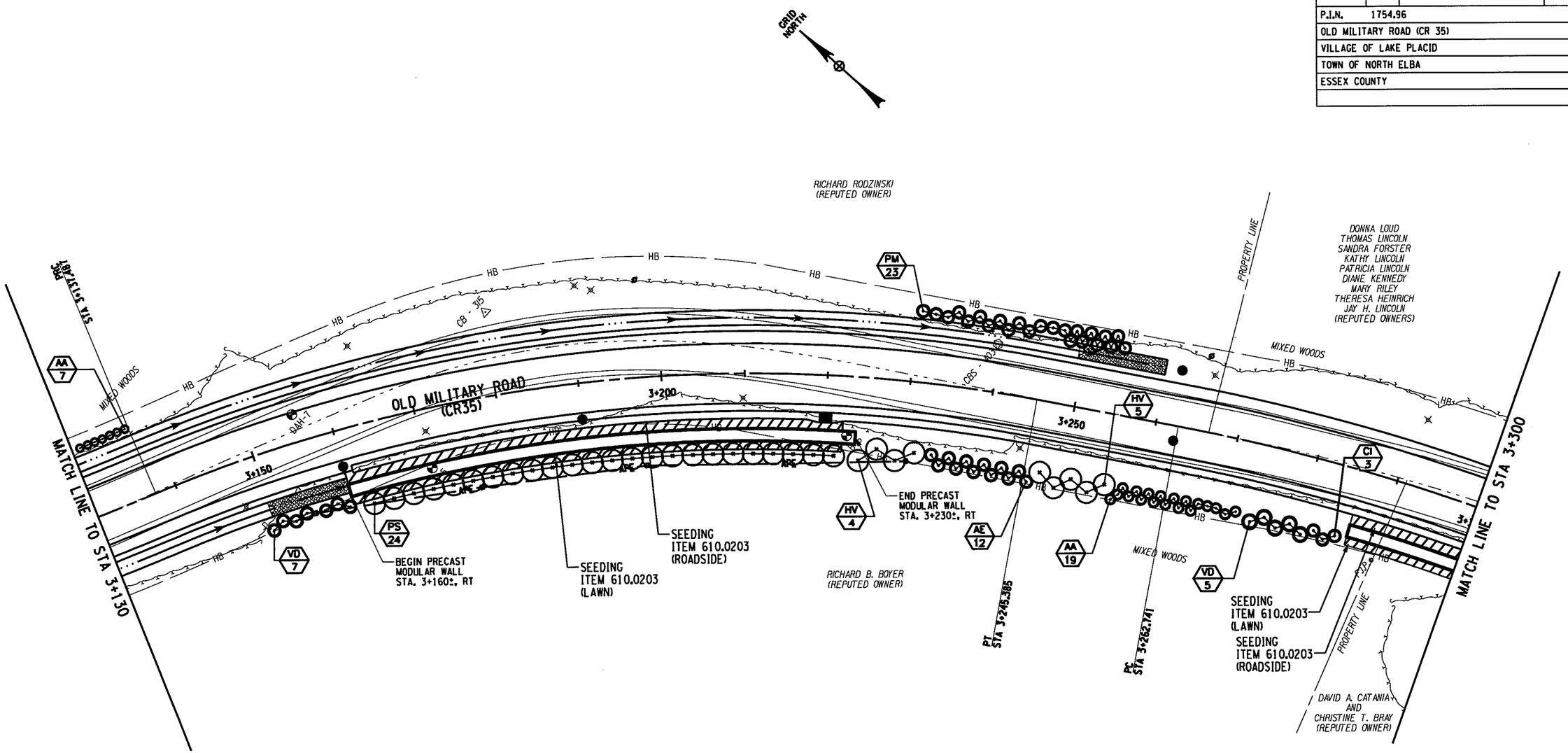
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_08	ONE	AUGUST 2011	LGP-8

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW DRAFTED BY B. PARKER CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		150	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

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LEGEND:

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- = PROPOSED SHRUB
- = PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

STATE OF NEW YORK · RONALD J. YATES · 088635 · LICENSED PROFESSIONAL ENGINEER

AS BUILT REVISIONS

SIGNATURE DATE

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

LANDSCAPE GENERAL PLANS (SHEET 9 OF 10)

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

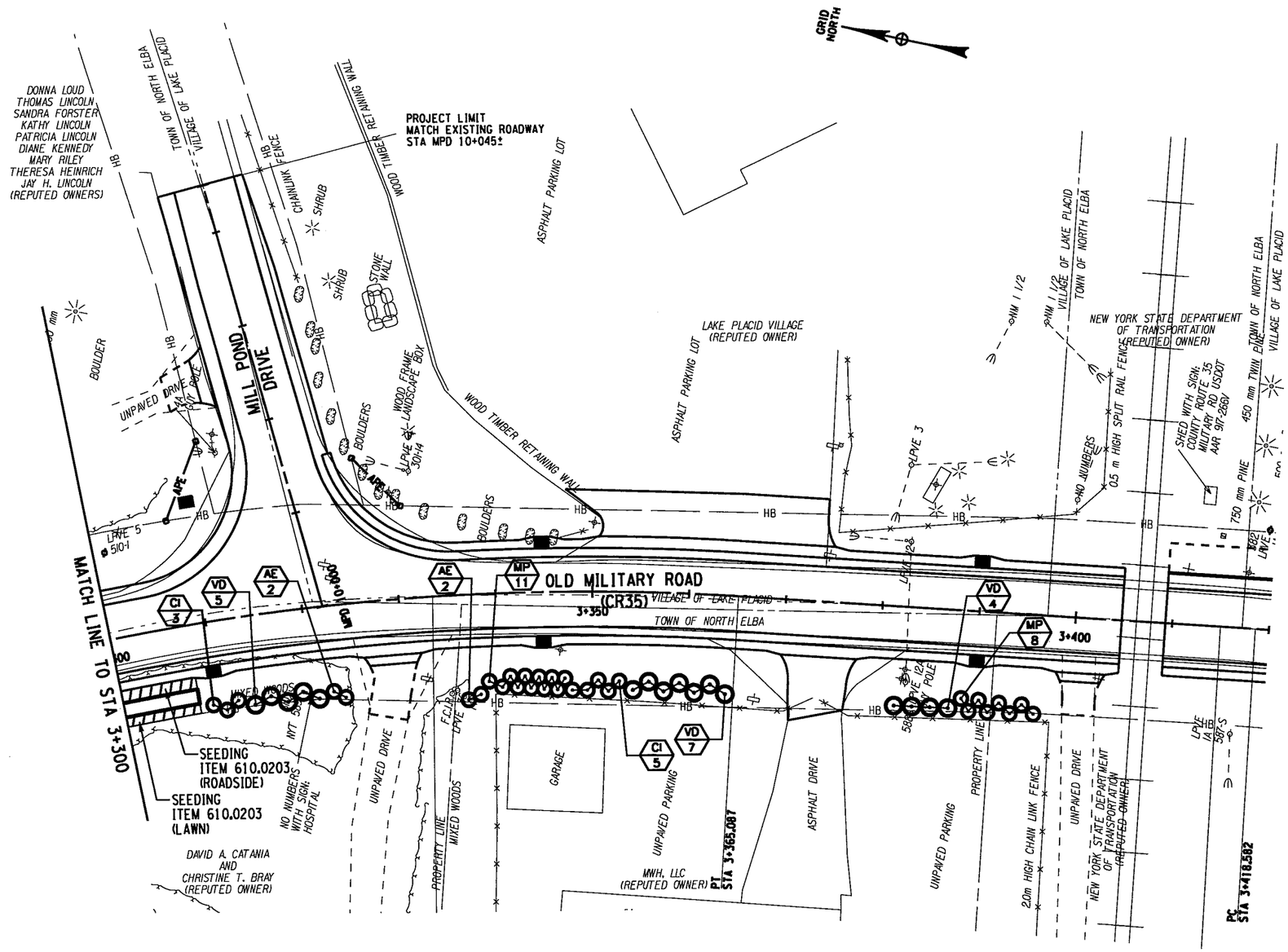
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_09	ONE	AUGUST 2011	LGP-9

FILE NAME =
DATE/TIME = AUGUST 18, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY K. BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		151	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE: REFER TO DRAWING NUMBERS GP-2 THROUGH GP-10 FOR ROAD CONSTRUCTION DETAILS.

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

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LEGEND:

- VB 6 = PROPOSED PLANTING (KEY/QUANTITY) SEE TABLE, DWG. NO. LGP-1
- = PROPOSED SHRUB
- = PROPOSED TREE

5 0 5 10 15 20 25 m
SCALE

STATE OF NEW YORK
RONALD J. YATES III
088635
LICENSED PROFESSIONAL ENGINEER

AS BUILT REVISIONS

SIGNATURE DATE

Fisher Associates, PE, LS, PC
135 Calkins Road, Suite A
Rochester, New York 14623

LANDSCAPE GENERAL PLANS
(SHEET 10 OF 10)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

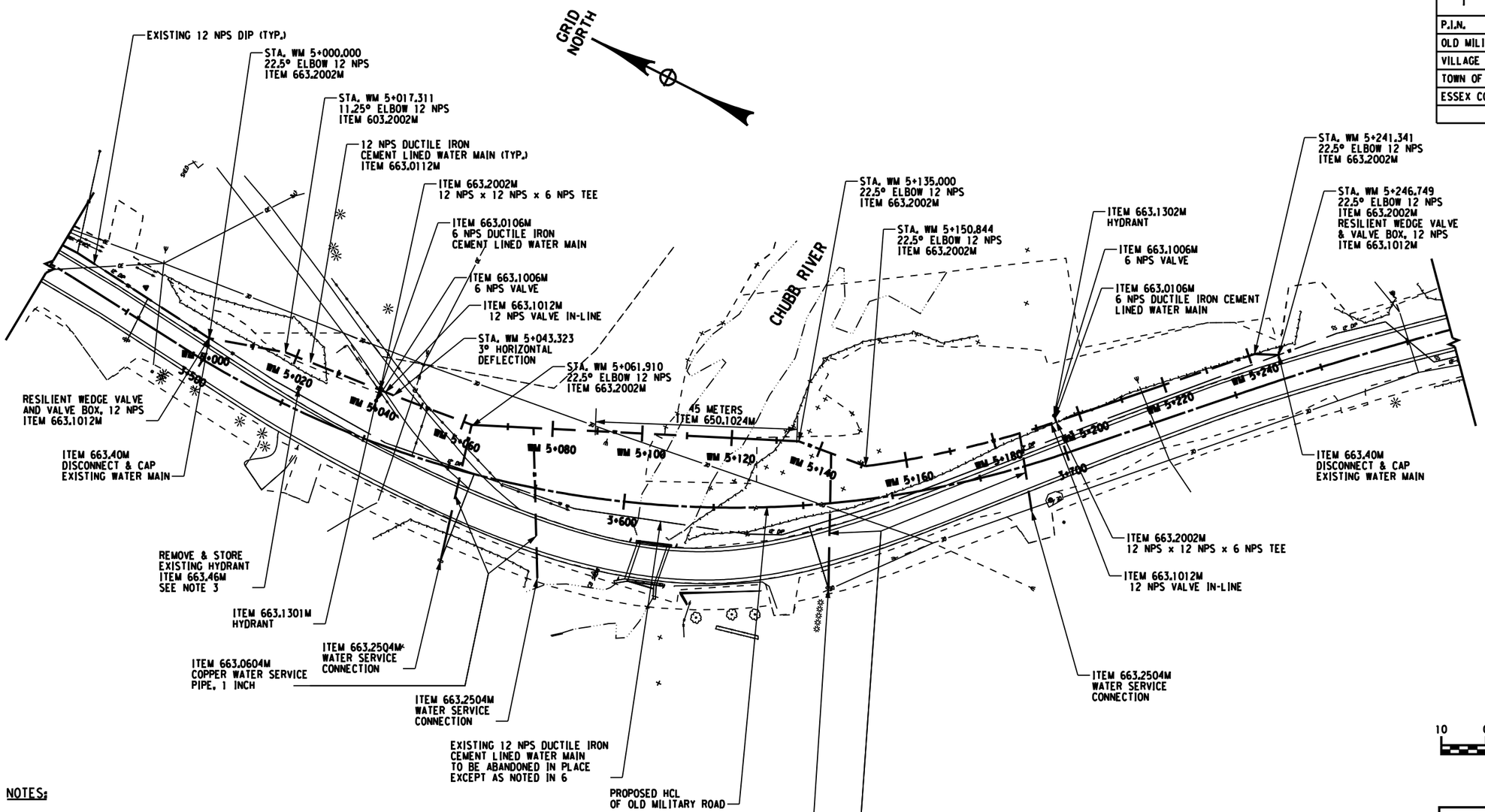
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_lgp_10	ONE	AUGUST 2011	LGP-10

FILE NAME =
DATE/TIME =AUGUST 18, 2011
USER =

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		152	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



10 0 10 20 30 40 50 m
SCALE

NOTE: ALL UTILITY LOCATIONS ARE QUALITY LEVEL "C"

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. THE CONTRACTOR SHALL FOLLOW THE FOLLOWING WATER MAIN INSTALLATION SEQUENCE UNDER THE DIRECT SUPERVISION OF THE LAKE PLACID WATER AND SEWER DEPARTMENT.
   - STOP SHORT OF NEW CONNECTION ON NORTH AND SOUTH LIMITS OF NEW WATER MAIN.
   - MAKE ALL SERVICE CONNECTIONS TO NEW MAIN.
   - FLUSH MAIN AS REQUIRED PER VILLAGE OF LAKE PLACID WATER AND SEWER DEPARTMENT GUIDELINES.
   - SHUT DOWN EXISTING MAIN AT LOCATIONS TO BE DETERMINED BY THE LAKE PLACID WATER AND SEWER DEPARTMENT. MAKE NEW CONNECTIONS @ STA WM 5+000± & WM 5+246±.
   - ONCE WORK HAS STARTED ON THE NEW WATER MAIN CONNECTION, WORK SHALL CONTINUE UNTIL THE MAIN IS INSTALLED AND ALL SERVICES ARE RESTORED.
2. FOR WATER MAIN PROFILE, SEE DWG WA-2 TO WA-3.
3. CONTRACTOR TO TURN OVER EXISTING HYDRANTS REMOVED TO THE VILLAGE OF LAKE PLACID WATER AND SEWER DEPARTMENT. ITEM 663.46M
4. FOR WATER MAIN DETAILS, SEE DWG WA-4 TO WA-7.
5. FOR STEEL CASING DETAILS, SEE DWG WA-7.
6. EXISTING 12 NPS DIP TO BE REMOVED AND DISPOSED AS NECESSARY UNDER PROPOSED CHUBB RIVER BRIDGE. PAYMENT UNDER ITEM 663.4112M.

AS BUILT REVISIONS

SIGNATURE DATE

UTILITY DETAILS
WATER MAIN PLAN

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

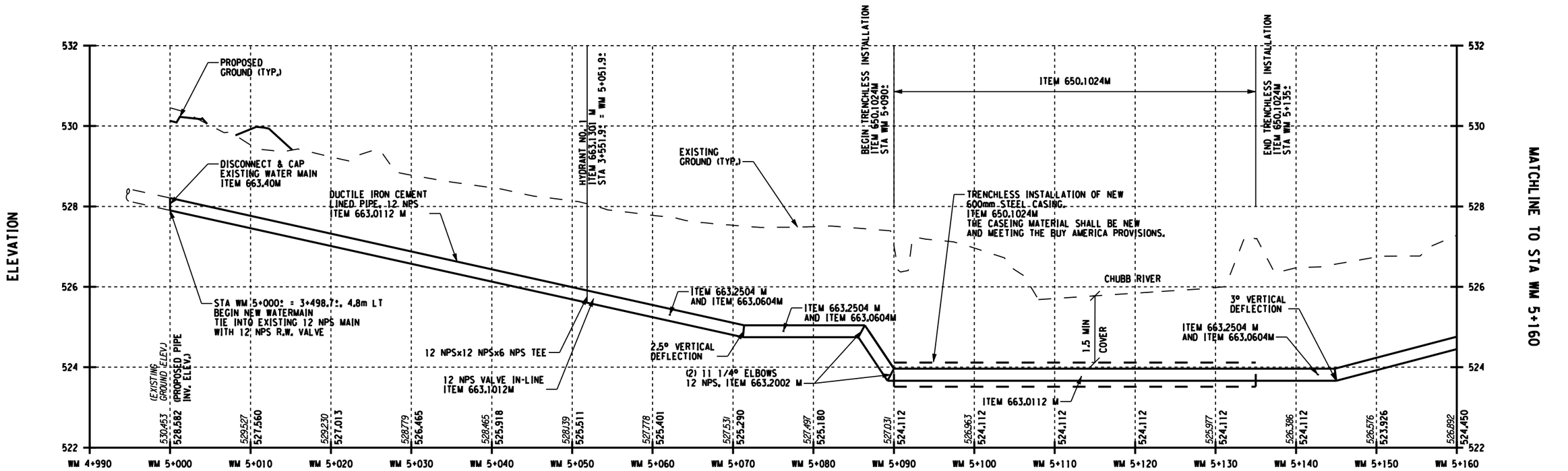
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_cph_wa_01.dgn	ONE	AUGUST 2011	WA-1

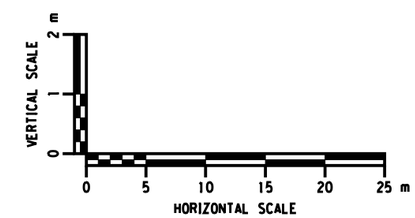
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		153	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY





ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATIONS OF WATER MAINS AND IF NECESSARY ADJUST TO MATCH FIELD CONDITIONS.
2. ADDITIONAL FITTINGS MAY BE REQUIRED TO INSTALL WATER MAIN A.O.B.E.
3. SEE WATER MAIN PLANS FOR HORIZONTAL ALIGNMENT.

ITEM	DESCRIPTION	ITEM
650.1024M	TRENCHLESS INSTALL. OF CASING UNDER HIGHWAY W/ DIA. ≤ 600mm	M
663.0112M	DUCTILE IRON CEMENT LINED PIPE, 12 NPS	M
663.0604M	COPPER WATER SERVICE PIPE, 1 NPS	M
663.1012M	RESILIENT WEDGE VALVE AND VALVE BOX, 12 NPS	EA
663.1301M	HYDRANT	EA
663.2002M	IRON WATER MAIN FITTINGS (10 NPS TO 16 NPS)	KG
663.2504M	WATER SERVICE CONNECTION, 1 NPS	EA
663.40M	DISCONNECT & CAP EXISTING WATER MAIN	M

AS BUILT REVISIONS

SIGNATURE DATE

UTILITY DETAILS
WATER MAIN PROFILE
(SHEET 1 OF 2)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_WA_02	ONE	AUGUST 2011	WA-2

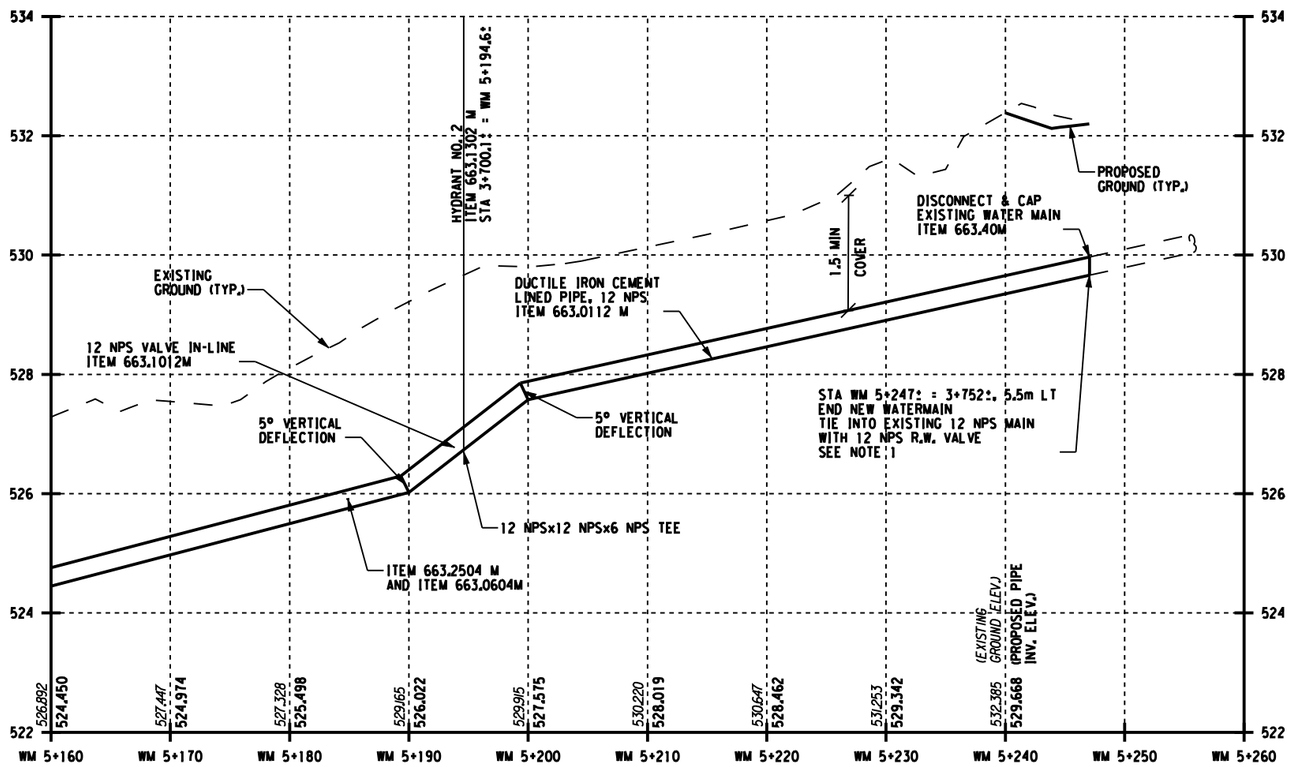
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

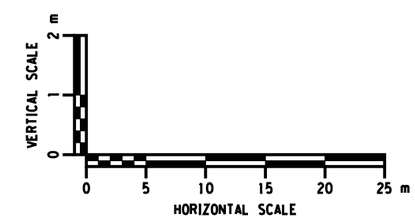
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		154	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

MATCHLINE TO STA WM 5+160



ELEVATION



ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATIONS OF WATER MAINS AND IF NECESSARY ADJUST TO MATCH FIELD CONDITIONS.
2. ADDITIONAL FITTINGS MAY BE REQUIRED TO INSTALL WATER MAIN A.O.B.E.
3. SEE WATER MAIN PLANS FOR HORIZONTAL ALIGNMENT.

ITEM	DESCRIPTION	ITEM
663.0112M	DUCTILE IRON CEMENT LINED PIPE, 12 NPS	M
663.0604M	COPPER WATER SERVICE PIPE, 1 NPS	M
663.1012M	RESILIENT WEDGE VALVE AND VALVE BOX, 12 NPS	EA
663.1302M	HYDRANT	EA
663.2002M	IRON WATER MAIN FITTINGS (10 NPS TO 16 NPS)	KG
663.2504M	WATER SERVICE CONNECTION, 1 NPS	EA
663.40M	DISCONNECT & CAP EXISTING WATER MAIN	M

AS BUILT REVISIONS

SIGNATURE DATE

UTILITY DETAILS
WATER MAIN PROFILE
(SHEET 2 OF 2)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

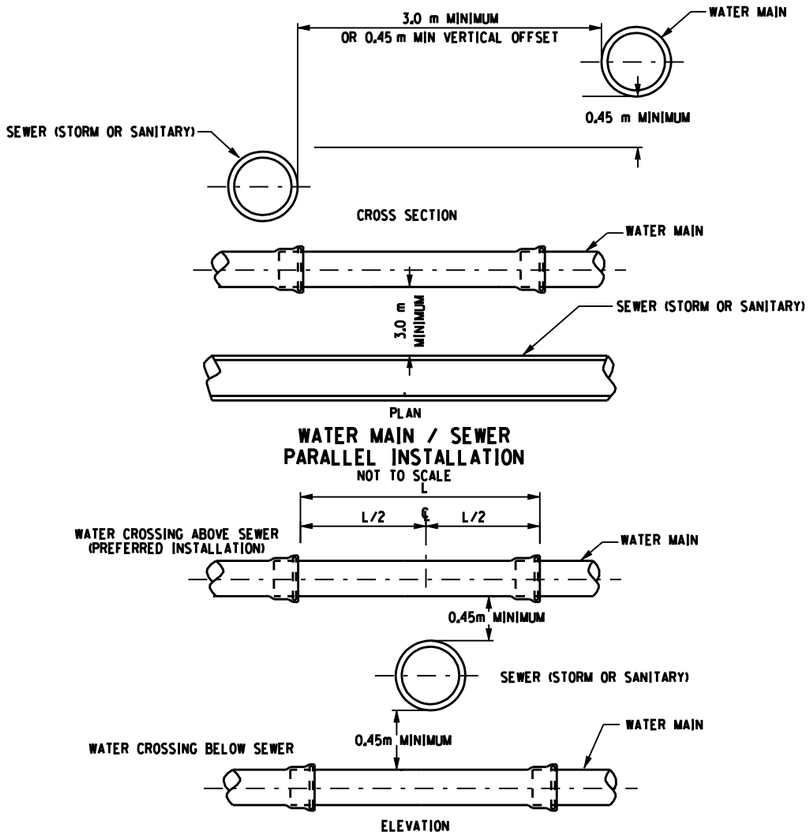
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_WA_03	ONE	AUGUST 2011	WA-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		155	205

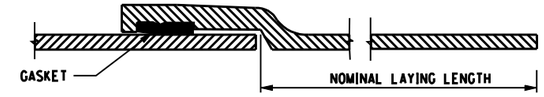
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



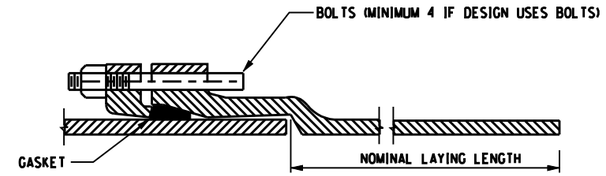
WATER MAIN / SEWER PARALLEL INSTALLATION
NOT TO SCALE

WATER MAIN / SEWER CROSSING
NOT TO SCALE

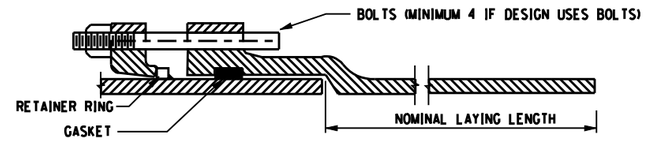
MAXIMUM JOINT DEFLECTION			
NPS SIZE	PUSH-ON JOINTS		MJ JOINTS
	5.5m DI	6.1m DI	5.5/6.1m
6	5°	5°	7°
8	5°	5°	5°
12	5°	5°	5°



PUSH-ON JOINT FOR DUCTILE IRON PIPE AND FITTINGS
NOTE: WILL VARY WITH SIZE AND MANUFACTURER



MECHANICAL JOINT (NON-RESTRAINED) FOR DUCTILE IRON PIPE AND FITTINGS
NOTE: WILL VARY WITH SIZE AND MANUFACTURER
NOT TO SCALE

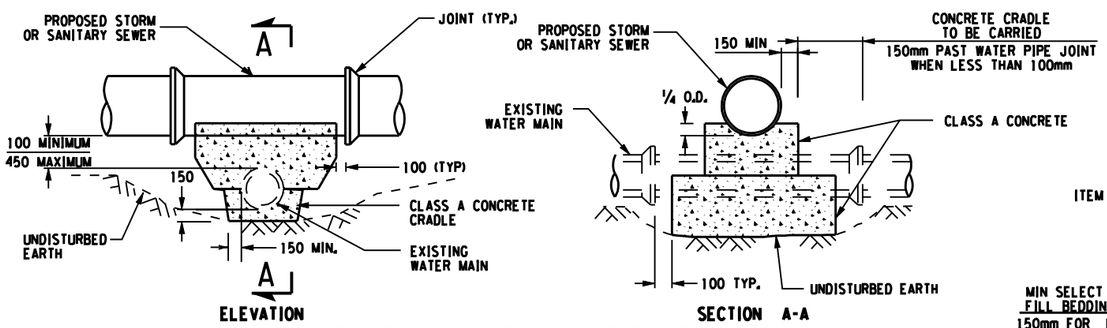


RESTRAINED MECHANICAL JOINT FOR DUCTILE IRON PIPE AND FITTINGS
NOTE: WILL VARY WITH SIZE AND MANUFACTURER
NOT TO SCALE

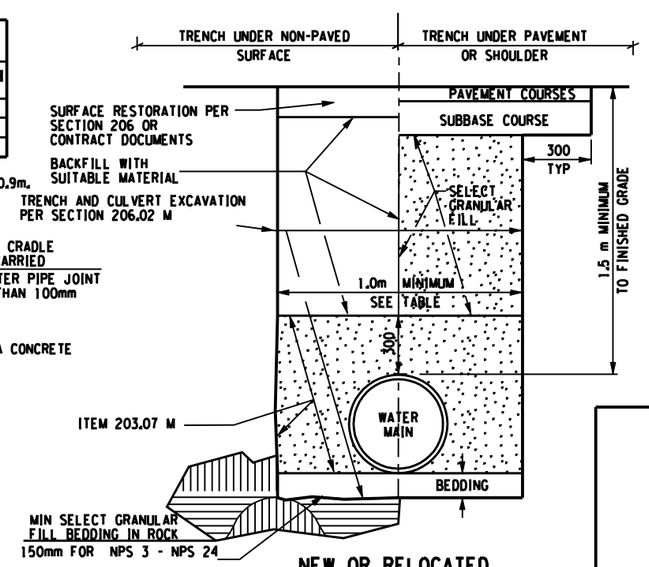
MECHANICAL JOINT BOLT TORQUE		
NPS SIZE	BOLT SIZE	TORQUE (N•m)
4-24	19mm	100-120

EXCAVATION PAYMENT WIDTHS	
NPS SIZE	TRENCH WIDTH (m)
6	1.1
8	1.1
12	1.2

NOTE: EXCAVATION PAYMENT WIDTHS ARE BASED ON B_c + 0.9m.



UTILITY CROSSING - VERTICAL OBSTRUCTION LACKING REQUIRED VERTICAL OFFSET
PROPOSED STORM SEWER CROSSING WATER MAIN
WITH 100mm TO 450mm VERTICAL SEPARATION
NOT TO SCALE



NEW OR RELOCATED DUCTILE IRON OR STEEL WATER MAIN TRENCH DETAIL
NOT TO SCALE

ITEM	DESCRIPTION	UNIT
203.07 M	SELECT GRANULAR FILL	m^3
206.02 M	TRENCH AND CULVERT EXCAVATION	m^3
552.16 M	EXCAVATION PROTECTION SYSTEM	m^2

NOTES:

1. SEE SPECIAL NOTES ENTITLED "OWNER REQUIREMENTS FOR WATER MAINS AND APPURTENANCES" FOR INFORMATION ON ADDITIONAL REQUIREMENTS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ELEVATIONS OF EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCE FOR THE WATER LINE EXISTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (IN WRITING) OF CONFLICTING ELEVATIONS, ALLOWING THE ENGINEER ADEQUATE TIME TO REVISE GRADES WITHOUT NECESSITATING REMOVAL AND RECONSTRUCTION OF WORK ALREADY COMPLETED BY THE CONTRACTOR.
3. DETAILS SHOWN ON THESE SHEETS ARE BASED UPON TYPE 4 LAYING CONDITION DESCRIBED IN AWWA STANDARD C600. SELECT GRANULAR FILL WAS ASSUMED TO HAVE A FRICTION ANGLE OF 30° AND A UNIT WEIGHT OF 1440 kg/m^3.
4. THE TOP PAYMENT LINE FOR TRENCH EXCAVATION SHALL BE PER ITEM 206.02 M.
5. BEDDING BELOW THE PIPE INVERT SHALL BE REQUIRED ONLY WHEN NOTED IN THE OWNER REQUIREMENTS OR WHEN ROCK OR UNSTABLE OR UNSUITABLE CONDITIONS ARE ENCOUNTERED.
6. IF UNSTABLE OR UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED NEAR THE INVERT ELEVATION, A MINIMUM OF 300mm AND A MAXIMUM OF 600mm OF MATERIAL SHALL BE EXCAVATED AOBE AND REPLACED WITH SELECT GRANULAR FILL. ADDITIONAL PAYMENT WILL BE MADE FOR MATERIAL PLACED TO TREAT UNSTABLE OR UNSUITABLE CONDITIONS.
7. NEW WATER MAINS INSTALLED PARALLEL TO STORM AND/OR SANITARY SEWER CONDUITS SHALL HAVE A MINIMUM OF 3m HORIZONTAL SEPARATION (MEASURED EDGE OF PIPE TO EDGE OF PIPE) WHENEVER POSSIBLE. WHEN 3m HORIZONTAL SEPARATION CANNOT BE MAINTAINED, A VERTICAL SEPARATION OF AT LEAST 0.45m BETWEEN BOTTOM OF WATER MAIN AND TOP OF SEWER PIPE SHALL BE MAINTAINED. IF NEITHER SEPARATION CAN BE MAINTAINED, THE WATER AND SEWER SHALL BE CONSTRUCTED AS SHOWN ON THE CONTRACT PLANS AND APPROVED BY THE APPROPRIATE HEALTH AGENCY.
8. BACKFILL SHALL BE INSTALLED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD NYSDOT STANDARD SPECIFICATIONS.
9. UPON COMPLETION OF ALL WATER SUPPLY RELATED CONSTRUCTION, INCLUDING BACKFILL, HYDROSTATIC TESTING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARD C600 WITH THE MAINS THOROUGHLY FLUSHED PRIOR TO TESTING. UNLESS OTHER WISE NOTED, THE SYSTEM SHALL BE SUBJECTED TO A PRESSURE/LEAKAGE TEST WITH WATER UNDER A MINIMUM HYDROSTATIC PRESSURE OF 1035 kPa FOR A MINIMUM OF TWO (2) HOURS.
10. UPON COMPLETION OF ALL WATER SUPPLY RELATED CONSTRUCTION, ALL MAINS, VALVES, HYDRANTS AND OTHER APPURTENANCES BUILT UNDER THIS CONTRACT SHALL BE DISINFECTED, FLUSHED AND TESTED FOR BACTERIOLOGICAL QUALITY IN ACCORDANCE WITH AWWA STANDARD C651.
11. WATER MAIN RELOCATION WORK MAY BE REQUIRED WHERE PROPOSED STORM DRAINS CROSS AN EXISTING WATERMAIN. THE CONTRACTOR SHALL ESTABLISH THE DEPTH OF THE WATERMAIN AT ALL CROSSING POINTS. THE ENGINEER WILL THEN VERIFY THE EXTENT OF THE WATERMAIN RELOCATION WORK REQUIRED.
12. UNLESS OTHERWISE NOTED IN THE OWNER REQUIREMENTS, A SINGLE METHOD OF THRUST RESTRAINT SHALL BE PROVIDED AT EACH FITTING THAT CREATES A THRUST IN ACCORDANCE WITH PRESSURE PIPE THRUST RESTRAINT DETAILS.
13. THE OFFSET OF A WATER MAIN TO AVOID AN OBSTRUCTION SHALL BE ACCOMPLISHED USING A MINIMUM NUMBER AND WEIGHT OF FITTINGS.
14. ENCASEMENT OF A WATER MAIN IN A CONCRETE CRADLE DUE TO PROXIMITY OF A STORM SEWER WILL BE INSTALLED IN ACCORDANCE WITH SECTION 501, WITH THE EXCEPTION THAT BATCHING REQUIREMENTS SHALL NOT APPLY.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

UTILITY DETAILS - WATER MAIN
(SHEET 1 OF 4)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
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ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

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*_CPH_WA_04	ONE	AUGUST 2011	WA-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

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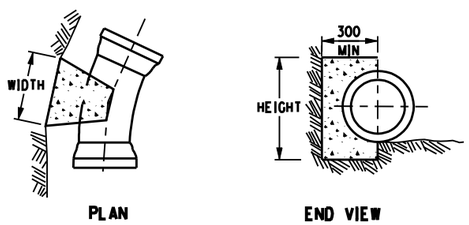
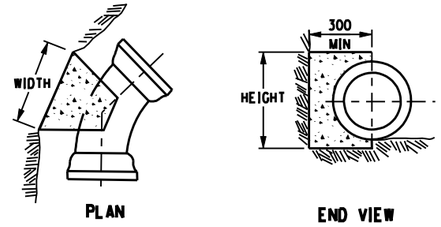


22½° BEND THRUST BLOCK

PIPE SIZE	WIDTH	HEIGHT	PIPE SIZE	WIDTH	HEIGHT
8 NPS	700	350	18 NPS	1500	750
12 NPS	1000	500	24 NPS	1900	1000

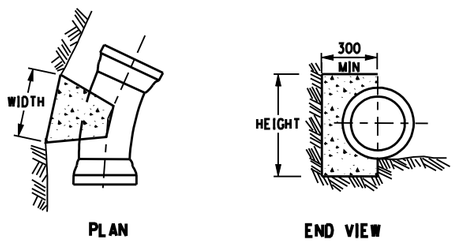
• DIMENSIONS ARE FOR STANDARD CONDITIONS, SEE NOTE 10



45° BEND THRUST BLOCK

PIPE SIZE	WIDTH	HEIGHT	PIPE SIZE	WIDTH	HEIGHT
8 NPS	1000	500	18 NPS	2200	1000
12 NPS	1400	700	24 NPS	2700	1400

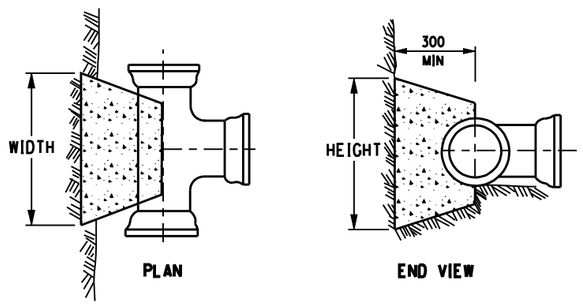
• DIMENSIONS ARE FOR STANDARD CONDITIONS, SEE NOTE 10



11¼° BEND THRUST BLOCK

PIPE SIZE	WIDTH	HEIGHT	PIPE SIZE	WIDTH	HEIGHT
8 NPS	500	250	18 NPS	1100	500
12 NPS	700	350	24 NPS	1400	700

• DIMENSIONS ARE FOR STANDARD CONDITIONS, SEE NOTE 10

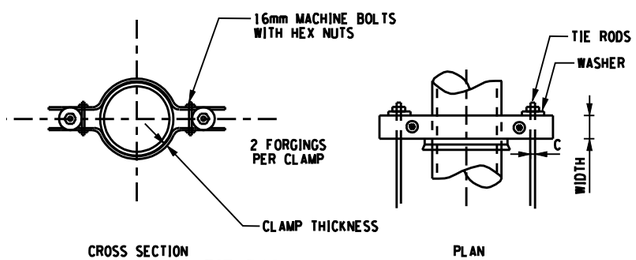


TEE / DEAD END THRUST BLOCK

PIPE SIZE	WIDTH	HEIGHT	PIPE SIZE	WIDTH	HEIGHT
8 NPS	1000	600	18 NPS	2300	1200
12 NPS	1600	800	24 NPS	3100	1600

• DIMENSIONS ARE FOR STANDARD CONDITIONS, SEE NOTE 10

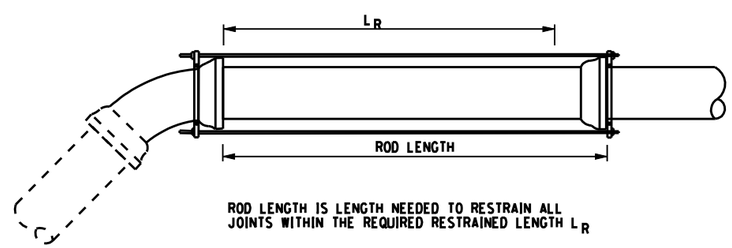
ALL THRUST BLOCK DETAILS NOT TO SCALE



TIE ROD CLAMP DETAIL

NOT TO SCALE

TIE RODS AND CLAMPS				
PIPE SIZE	ROD SIZE		CLAMP SIZE	
	RECOM. DIAM	MIN. AREA	THICK.	WIDTH
8 NPS	2 - 25mm	839mm²	12mm	25mm
12 NPS	2 - 35mm	1742mm²	12mm	25mm



ROD LENGTH IS LENGTH NEEDED TO RESTRAIN ALL JOINTS WITHIN THE REQUIRED RESTRAINED LENGTH L_R

TIE RODS

PLAN
NOT TO SCALE

NOTES:

1. THRUST RESTRAINT USING THRUST BLOCKS AND TIE RODS ARE SHOWN ON THESE SHEETS. RESTRAINED JOINTS AND RETAINER GLANDS ARE ALSO ACCEPTABLE METHODS. SEE SPECIAL NOTES ENTITLED "OWNER REQUIREMENTS FOR WATER MAINS AND APPURTENANCES" FOR ADDITIONAL INFORMATION ON THRUST RESTRAINT REQUIREMENTS.
2. IF THE OWNER OF THE WATER SYSTEM REQUIRES A METHOD THAT RESTRAINS INDIVIDUAL JOINTS, EACH JOINT THAT FALLS WITHIN THE MINIMUM RESTRAINED LENGTH, MEASURED FROM THE CENTER OF THE FITTING, AS SHOWN ON THESE SHEETS SHALL BE RESTRAINED, AND SHALL WITHSTAND THE MAXIMUM PRESSURE APPLIED TO THE SYSTEM.
3. CLASS A CONCRETE SHALL NOT BE PLACED UNDER WATER. THE CONTRACTOR SHALL DEWATER THE EXCAVATION OR PLACE TYPE G CONCRETE USING APPROPRIATE UNDERWATER PLACEMENT TECHNIQUES.
4. CONCRETE FOR THRUST BLOCKS SHALL NOT BE ALLOWED TO COVER OR INTERFERE WITH JOINT OR RESTRAINT HARDWARE. PLASTIC SHEETING OR BUILDING FELT MAY BE PLACED OVER PIPE OR FITTINGS TO PREVENT CONCRETE FROM ADHERING TO SURFACES. CONCRETE FOR THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
5. FOR BENDS, BEARING AREA SHALL BE PARALLEL TO THE EDGE OF THE FITTING AT THE FITTING MIDPOINT.
6. FOR TEES, BEARING AREA SHALL BE PERPENDICULAR TO THE BRANCH (SINGLE LEG) AXIS.
7. THRUST BLOCKS SIZES AND MINIMUM RESTRAINED LENGTHS SHOWN ON THESE SHEETS ARE BASED UPON THE FOLLOWING STANDARD CONDITIONS:
   - 1.5 SAFETY FACTOR
   - 1.5 m DEPTH OF COVER
   - 1380 kPa WATER SYSTEM TEST PRESSURE
   - 96 kPa SOIL BEARING CAPACITY
   - 1440 kg/m³ SOIL UNIT WEIGHT
8. THRUST BLOCK ANCHOR RODS SHALL MEET THE REQUIREMENTS OF § 709-03 OF THE STANDARD SPECIFICATIONS. ALL EMBEDDED RODS SHALL HAVE STANDARD ACI HOOKS ON EACH END, AND SHALL HAVE A MINIMUM OF 75mm. CONCRETE COVER IN ALL DIRECTIONS.
9. TIE RODS AND CONNECTOR HARDWARE SHALL MEET THE REQUIREMENTS OF THE FOLLOWING:
   BLACK - ASTM A307 GRADE 2
   GALVANIZED - ASTM A449 GRADE 5
   STAINLESS - ASTM A325 TYPE 3
10. A MINIMUM OF TWO TIE RODS SHALL BE USED FOR EACH INSTALLATION. THE RECOMMENDED SIZES OF TIE RODS ARE FOR TWO OR FOUR TIE ROD SYSTEMS. THE NUMBER AND SIZE OF TIE RODS USED MAY DIFFER AS LONG AS THE MIN. REQUIRED AREA IS PROVIDED, AND THE METHOD IS APPROVED BY THE ENGINEER.
11. TO DETERMINE REQUIRED SIZES FOR DIFFERENT CONDITIONS, MULTIPLY THE DIMENSION BY A FACTOR OF THE SPECIFIC VALUE DIVIDED BY THE STANDARD VALUE.

EXAMPLE:
FOR 12 NPS 45° BEND WITH 690 kPa TEST PRESSURE:
AREA REQUIRED = (1.4m X 0.7m) x (690 / 1380) = 0.49 m²
WIDTH = 1.0m
HEIGHT = 0.5m

MINIMUM RESTRAINED LENGTH OF PIPE (m) L_R		
FITTING	8 NPS	12 NPS
HORIZONTAL BENDS		
11¼°	0.8	1.1
22½°	0.8	1.1
45°	1.6	2.3

NOTE• FOR POLYETHYLENE WRAPPED PIPE, MULTIPLY VALUES IN TABLE BY 1.45

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

UTILITY DETAILS - WATER MAIN
(SHEET 2 OF 4)

Foit-Albert Associates
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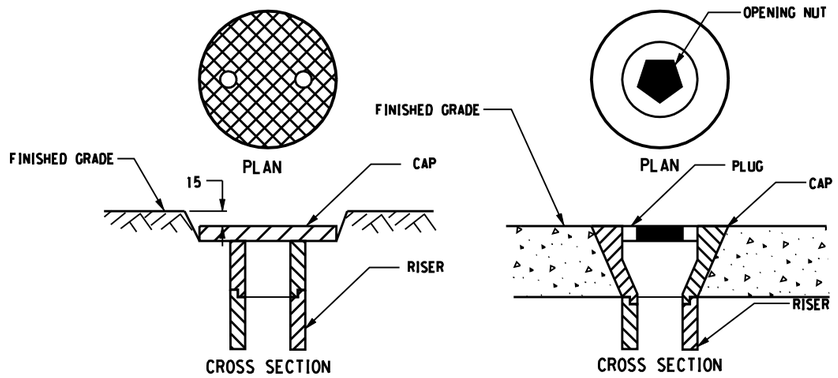
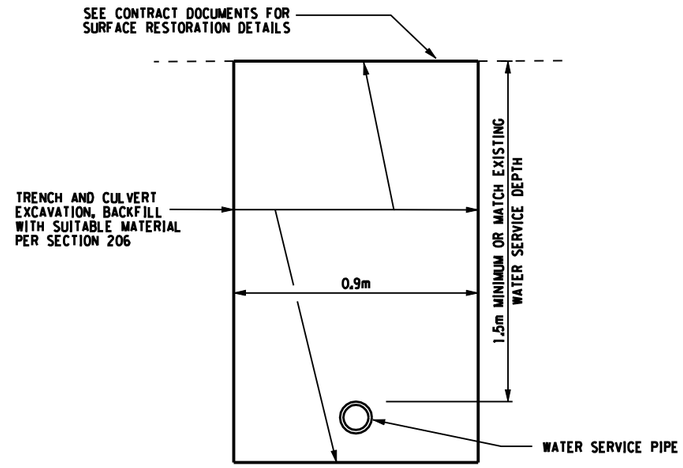


TWO-HOLE TYPE
USED IN GRASSED OR LANDSCAPED AREAS

PLUG TYPE
USED IN SIDEWALKS OR PAVED AREAS

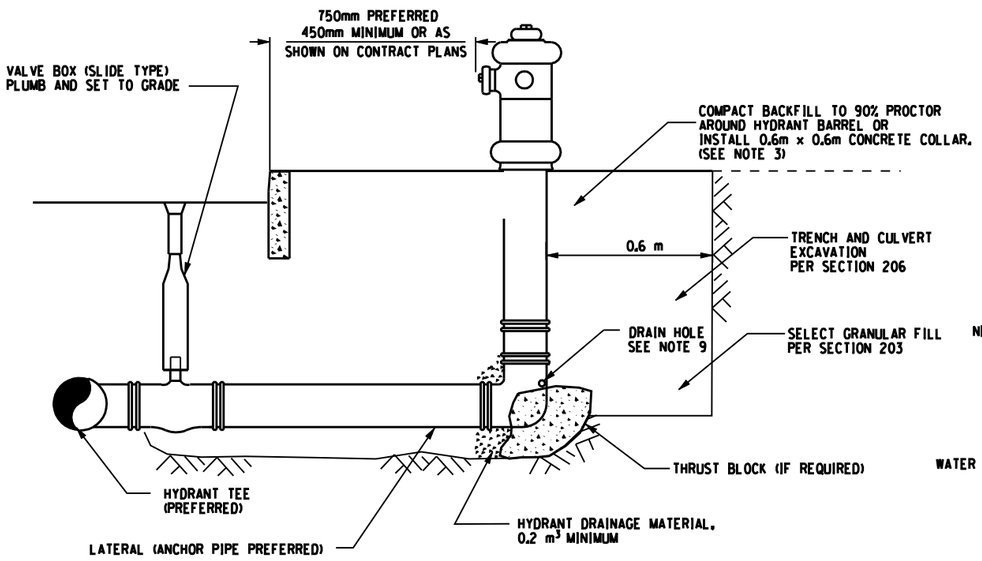
RELOCATING CURB BOX CAPS
NOT TO SCALE



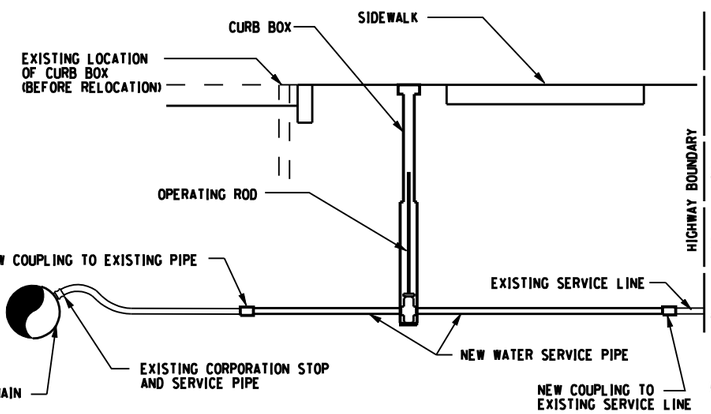
WATER SERVICE TRENCH DETAIL
NOT TO SCALE

WATER SERVICE & CURB STOP NOTES:

1. WATER SERVICE TAPS ON A NEW OR EXISITNG MAIN SHALL BE PLACED AT THE 2 O'CLOCK OR 10 O'CLOCK POSITION AND SHALL BE PLACED A MINIMUM OF 300mm APART ALONG THE LENGTH OF THE MAIN. NO TAPS SHALL BE PLACED WITHIN 600mm OF THE END OF A PIPE.
2. UNLESS OTHERWISE NOTED IN THE OWNER REQUIREMENTS, ALL NEW SERVICE LINES SHALL BE TYPE K COPPER IN ACCORDANCE WITH § 722-06.
3. ALL FITTINGS, INCLUDING CORPORATION STOP, CURB STOP, COUPLINGS, ELBOWS, ETC SHALL BE BRASS, IN ACCORDANCE WITH § 722-06 AND OWNER REQUIREMENTS.
4. CURB STOP AND CURB BOX SHALL BE PLACED WITHIN THE HIGHWAY RIGHT OF WAY AND WITHIN THE SNOW STORAGE AREA WHENEVER POSSIBLE, OR AS SHOWN ON THE CONTRACT PLANS AND IN THE OWNER REQUIREMENTS.
5. RELOCATED CURB STOP AND BOX SHALL INCLUDE NEW WATER SERVICE PIPE TO THE HIGHWAY BOUNDARY OR AS SHOWN ON CONTRACT PLANS AND IN THE OWNER REQUIREMENTS.
6. THE CURB BOX CAP SHALL BE OF THE PLUG TYPE WHEN PLACED IN A PAVED SURFACE, AND THE TWO HOLE TYPE WHEN PLACED IN A GRASSED OR LANDSCAPED AREA.
7. WHEN PLACED IN GRASS THE TOP OF CURB BOX SHALL BE SET 15mm BELOW FINISHED GRADE.
8. UNLESS OTHERWISE NOTED IN THE OWNER REQUIREMENTS, METERS WILL BE SUPPLIED BY THE OWNER AT NO COST TO THE CONTRACTOR OR TO THE STATE. PIPING IS SCHEMATIC, PIPING SHALL BE INSTALLED AS REQUIRED FOR THE INDIVIDUAL INSTALLATION.



ELEVATION
NOT TO SCALE

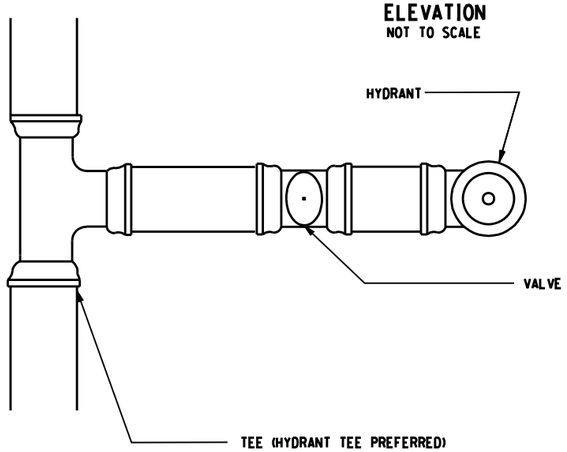


CURB STOP AND CURB BOX DETAIL
NOT TO SCALE

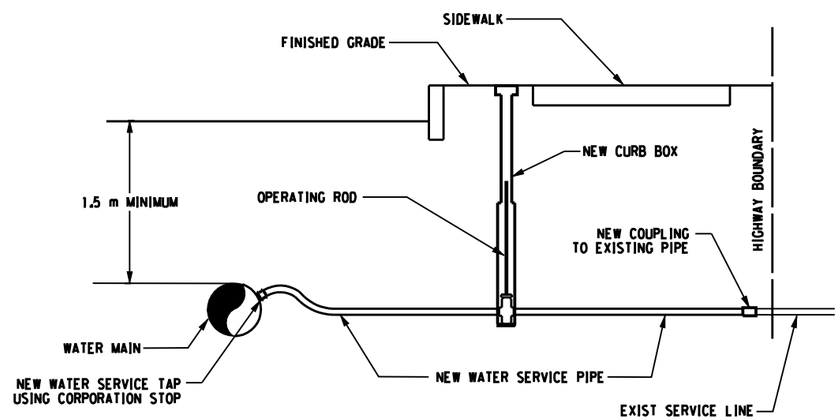
HYDRANT NOTES:

1. ALL NEW HYDRANTS SHALL BE DRY-BARREL, TRAFFIC MODELS IN ACCORDANCE WITH AWWA STANDARD C502 UNLESS SPECIFICALLY REQUIRED OTHERWISE BY THE OWNER REQUIREMENTS. THE GROUNDLINE MARKED ON THE HYDRANT, OR IDENTIFIED BY THE MANUFACTURER USING AN OFFSET FROM A KNOWN POINT ON THE HYDRANT, SHALL BE WITHIN 25 mm ABOVE OR BELOW FINISHED GRADE. THE HYDRANT SHALL BE INSTALLED SO THAT NO PORTION OF THE LOWER BARREL (THAT PORTION REMAINING IF THE UPPER BARREL IS BROKEN OFF) EXTENDS MORE THAN 100 mm ABOVE FINISHED GRADE, MEASURED OVER A 1.5 m HORIZONTAL SPAN.
2. MULTIPLE BARREL EXTENSIONS ARE NOT PERMITTED UNLESS THE DESIRED GRADE CANNOT BE REACHED WITH A SINGLE EXTENSION. IF A SMALLER EXTENSION IS ALREADY IN PLACE ON AN EXISTING HYDRANT, IT SHALL BE REMOVED AND REPLACED WITH A SINGLE LONGER ONE. THE REMOVED EXTENSION SHALL BECOME THE PROPERTY OF THE OWNER.
3. BACKFILL AROUND THE TOP OF THE LOWER BARREL SHALL BE COMPACTED TO A MINIMUM DENSITY OF 90% PROCTOR IN ACCORDANCE WITH § 203-3.15 OR A 0.6m x 0.6m CONCRETE COLLAR SHALL BE CAST AROUND THE BARREL IN ORDER TO PREVENT MOVEMENT OF THE SHOE IF THE HYDRANT IS STRUCK.
4. LATERALS FOR HYDRANTS USING ANCHOR PIPES SHALL BE SINGLE PIECE, UNLESS MORE THAN A FULL LENGTH OF ANCHOR PIPE IS REQUIRED. LATERALS FOR HYDRANTS USING THRUST RESTRAINT PROVIDED BY MEANS OTHER THAN AN ANCHOR PIPE SHALL BE SINGLE PIECE, UNLESS MORE THAN A FULL LENGTH (5.5m) OF PIPE IS REQUIRED.
5. THE RELOCATION OF AN EXISTING HYDRANT SHALL INCLUDE THE INSTALLATION OF A LENGTH OF ANCHOR PIPE UP TO 2.0 m LONG, INSTALLED AT ANY POINT BETWEEN THE MAIN AND THE HYDRANT.
6. THRUST RESTRAINT SHALL BE PROVIDED AS FOR A DEAD END AND AS REQUIRED BY THE OWNER REQUIREMENTS.
7. THE HYDRANT DRAIN HOLE SHALL BE KEPT UNOBSTRUCTED. CARE SHALL BE USED TO KEEP THRUST RESTRAINTS FROM BLOCKING DRAIN HOLE. IF THE HYDRANT DRAIN IS LOCATED WITHIN 3 m OF A SANITARY SEWER OR STORM DRAIN, OR IF GROUNDWATER IS ENCOUNTERED WITHIN 2 m OF FINISHED GRADE, THE HYDRANT DRAINS SHALL BE PLUGGED.
8. HYDRANT DRAINAGE MATERIAL SHALL BE #1 OR #2 STONE PER § 703-02.
9. MATERIALS REMOVED UNDER REMOVE AND STORE EXISTING HYDRANT SHALL REMAIN THE PROPERTY OF THE SYSTEM OWNER. THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF 48 HOURS PRIOR TO REMOVAL TO COORDINATE PICK-UP, OR SHALL STORE THE MATERIAL FOR PICK-UP ON-SITE A.D.B.E.
10. MATERIALS REMOVED UNDER REMOVE AND DISPOSE OF EXISTING HYDRANT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE WORK SITE A.D.B.E.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED



TYPICAL HYDRANT INSTALLATION
PLAN
NOT TO SCALE



WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

AS BUILT REVISIONS

SIGNATURE DATE

UTILITY DETAILS - WATER MAIN (SHEET 3 OF 4)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

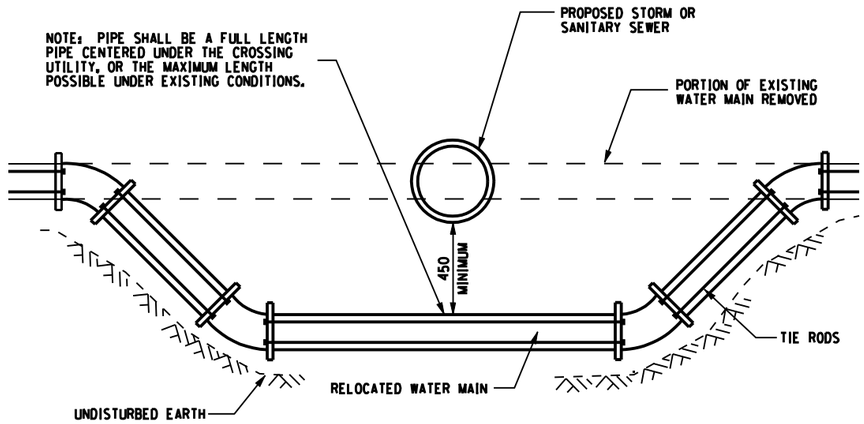
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_WA_06	ONE	AUGUST 2011	WA-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME = 175496_cph_wa_04.dgn
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		158	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

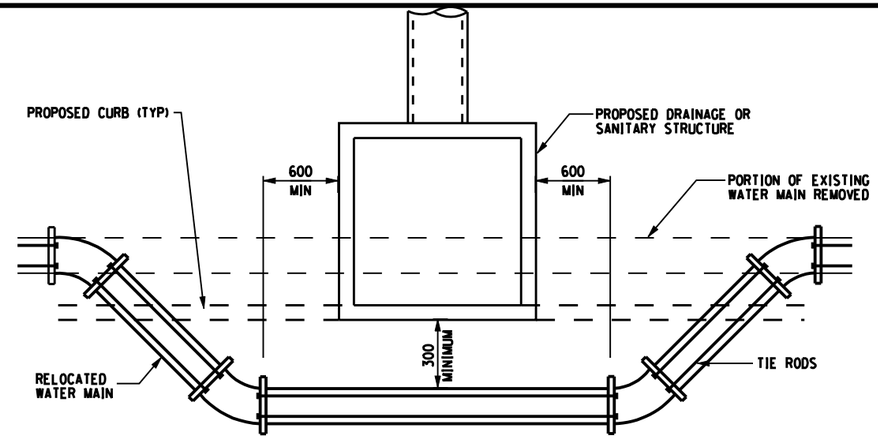


UTILITY CROSSING - VERTICAL OBSTRUCTION WITH REQUIRED VERTICAL OFFSET

ELEVATION

NOTE: THRUST BLOCKS SHOWN, THRUST RESTRAINT MAY BE PROVIDED BY ANY SINGLE METHOD IN ACCORDANCE WITH WATER MAIN THRUST RESTRAINT DETAILS

NOT TO SCALE



UTILITY CROSSING - HORIZONTAL OBSTRUCTION

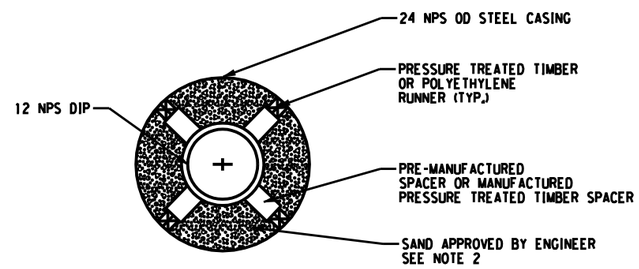
PLAN VIEW

NOTE: TIE RODS SHOWN, THRUST RESTRAINT MAY BE PROVIDED BY ANY SINGLE METHOD IN ACCORDANCE WITH WATER MAIN THRUST RESTRAINT DETAILS

NOT TO SCALE

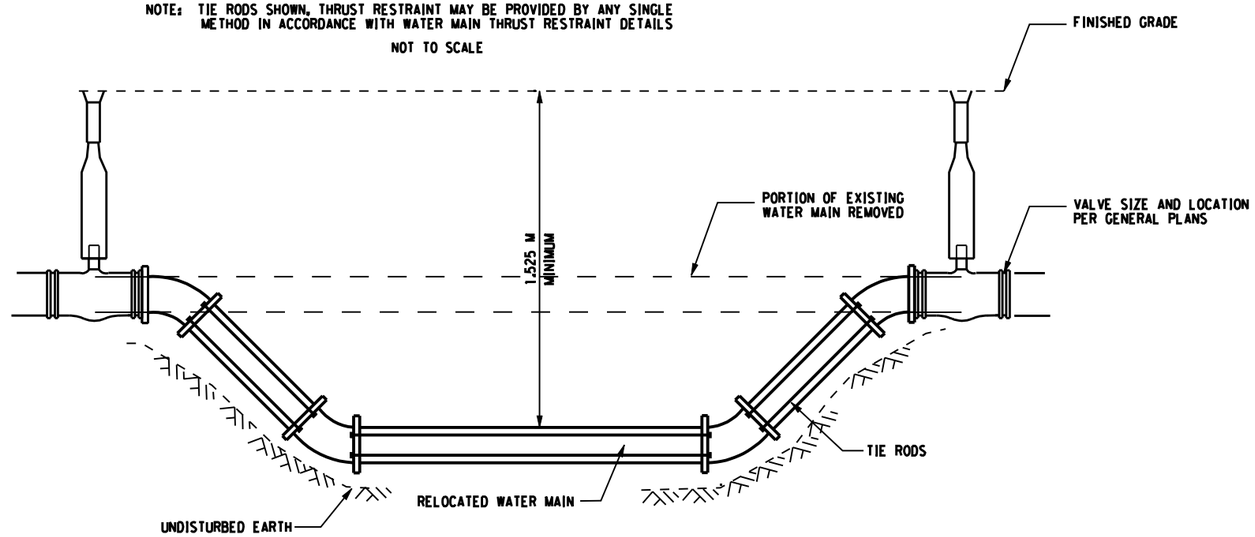
NOTES:

1. STEEL CASING SHALL BE A WELDED ENCASEMENT WITH A MIN. WALL THICKNESS OF 9.5mm (0.375") WITH A MINIMUM INNER DIAMETER OF 200mm (8") LARGER THAN THE OUTER DIAMETER OF THE DIP WATER MAIN.
   12 NPS OD = 335mm (13.20")
2. ANNUAL SPACE SHOULD BE FILLED WITH GROUT, SAND OR APPROVED MATERIAL A.O.B.E. PAYMENT UNDER ITEM 650.1024M.
3. EACH LENGTH OF DIP SHOULD CONTAIN A MIN. OF (2) SPACERS AND ALL PIPES WITHIN CASING SHOULD HAVE RESTRAINED JOINTS.
4. WATERMAIN TO BE DROPPED WHERE SHOWN ON _____. WATERMAIN SHALL BE DROPPED BEFORE CUTS FOR PROPOSED FINISH GRADING ARE ESTABLISHED.



SECTION A-A

NOT TO SCALE



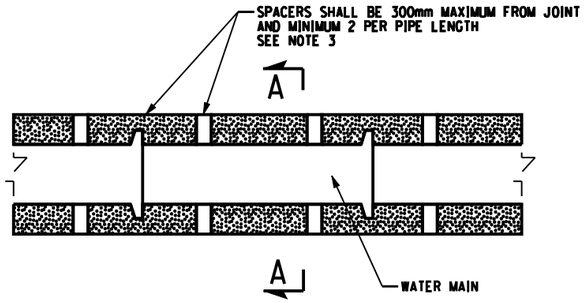
ADJUSTED WATERMAIN DETAIL

ELEVATION

NOTE: THRUST BLOCKS SHOWN, THRUST RESTRAINT MAY BE PROVIDED BY ANY SINGLE METHOD IN ACCORDANCE WITH WATER MAIN THRUST RESTRAINT DETAILS

NOT TO SCALE

STA. 2+870 TO 2+980 - 8 NPS
STA. 3+420 TO 3+498.7 - 12 NPS



WATER MAIN TRENCHLESS INSTALLATION ITEM 650.1024M

NOT TO SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

UTILITY DETAILS - WATER MAIN (SHEET 4 OF 4)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

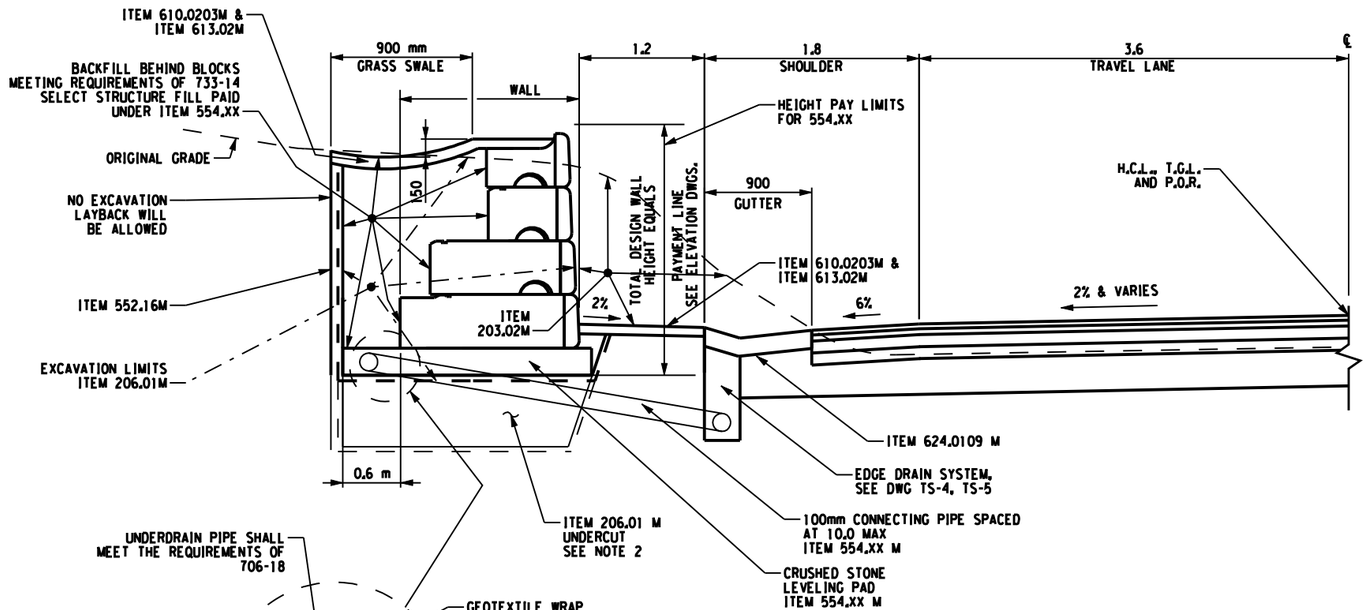
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_WA_07	ONE	AUGUST 2011	WA-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME = 1754.96_cph_wa_04.dgn
DATE/TIME = AUGUST 25, 2011
USER =

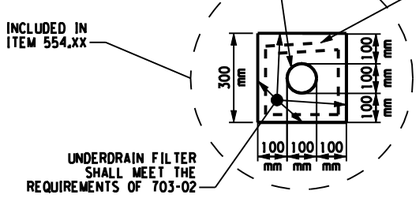
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		159	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



TYPICAL
ITEM 554.XX M
FILL TYPE RETAINING WALL
SECTION A-A

NOT TO SCALE



DETAIL A - ITEM 554.XX M

NOT TO SCALE

RETAINING WALL NOTES:

*** 1. **BLOCK COLOR SHALL BE NATURAL. THE SURFACE TEXTURE FOR THE WALL BLOCKS SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL PRIOR THE SUBMITTING OF THE SAMPLE BLOCK FOR FINAL APPROVAL. UPON COUNTY APPROVAL, ALL WALL BLOCKS SUPPLIED TO THE PROJECT SHALL FEATURE THIS SURFACE TEXTURE. ALL COSTS ASSOCIATED WITH THE SUBMITTAL PROCESS AND THOSE WITH THE MANUFACTURE OF THE FINAL SUPPLIED BLOCKS SHALL BE INCLUDED IN THE PRICE BID FOR THE WALL ITEMS.**

2. A. MAXIMUM 600mm UNDERCUT MAY BE ORDERED BY THE ENGINEER WHERE NECESSARY TO PROVIDE STABLE BEDDING CONDITIONS. UNDERCUTTING SHALL BE IN ACCORDANCE ITEM 206.01 M, STRUCTURE EXCAVATION.

   B. IF UNDERCUTTING IS ORDERED, THE LIFT THICKNESS AND COMPACTION REQUIREMENTS FOR SELECT STRUCTURE FILL BACKFILL SHALL BE AS ORDERED BY THE ENGINEER.

   C. THE ENGINEER SHALL BE CONSULTED IF IT APPEARS THAT UNDERCUTTING BEYOND THE 600mm MAXIMUM DEPTH MAY BE NEEDED.

3. THE LOCATION OF THE UNDERDRAIN SHALL BE A.O.B.E.

4. THE CONTRACTOR MUST DETERMINE THE SAFE EXCAVATION PROCEDURE FOR ANY EXCAVATION AND PERFORM ALL WORK IN ACCORDANCE WITH SUBSECTION 107-05 SAFETY AND HEALTH REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

5. REFER TO ROADWAY TYPICAL SECTIONS (TS-1 TO TS-4) FOR MEASUREMENT AND PAYMENT OF VARIOUS ROADWAY ITEMS.

6. LEVEL PAD SHALL MEET SPECIFICATION FOR SELECTED WALL SYSTEM.

FOR FILL TYPE RETAINING WALL ITEM LOCATIONS, PROFILES AND PAY LINES, REFER TO DWGS NO. RW-3 THRU RW-7.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
206.01 M	STRUCTURE EXCAVATION	CM			
552.16 M	EXCAVATION PROTECTION SYSTEM	SM			
554.XX M	FILL TYPE RETAINING WALL (VARIOUS HEIGHTS)	SM			
610.0203 M	ESTABLISHING TURF	SM			
613.02 M	PLACING TOPSOIL - TYPE A	CM			
624.0109 M	CONVENTIONALLY FORMED OR MACHINED FORMED CONCRETE GUTTERS	SM			

AS BUILT REVISIONS

SIGNATURE DATE

FILL TYPE RETAINING WALL
TYPICAL SECTION (SHEET 1 OF 2)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

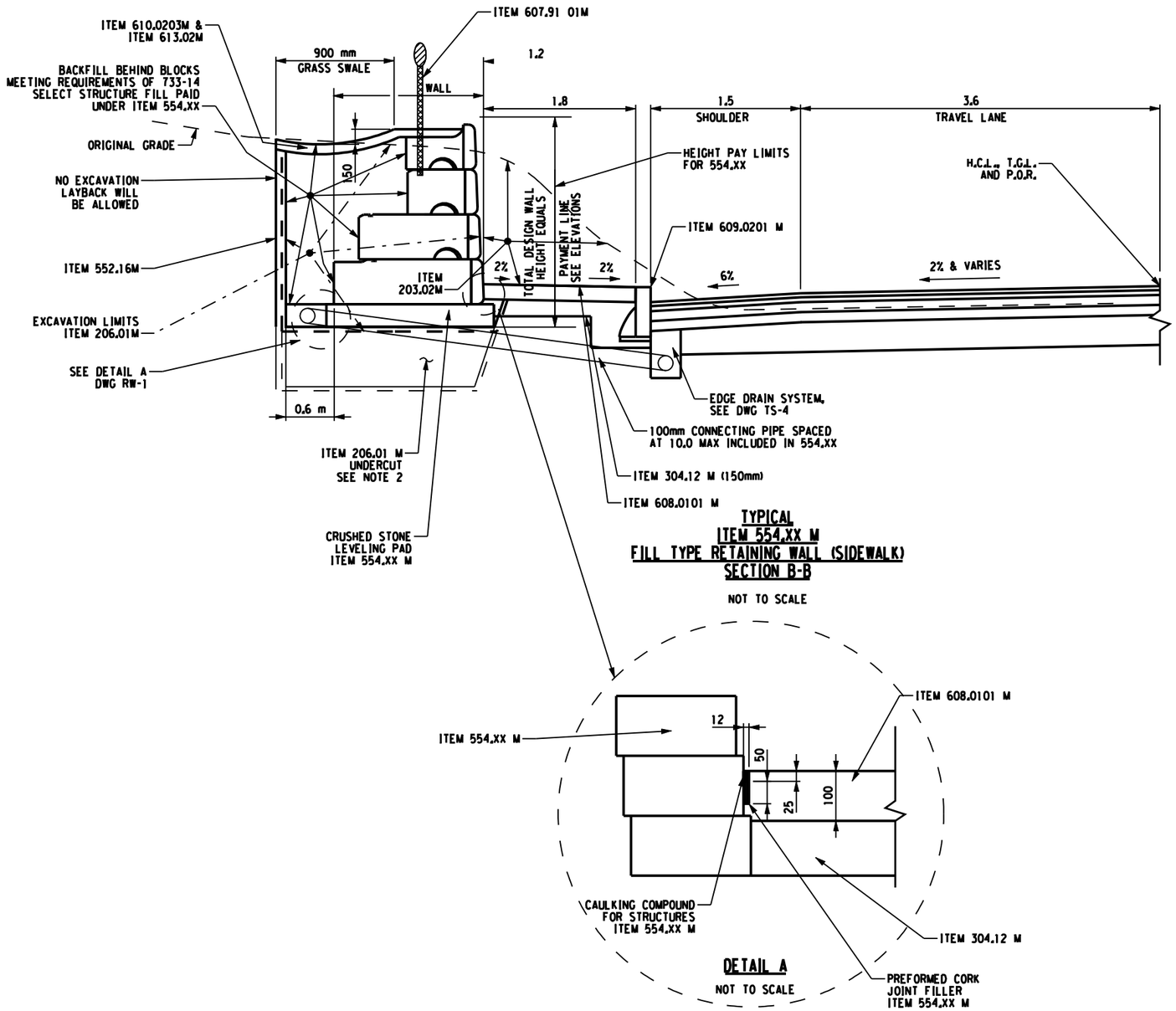
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TYP_RET_WALL	ONE	AUGUST 2011	RW-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		160	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



TYPICAL
ITEM 554.XX M
FILL TYPE RETAINING WALL (SIDEWALK)
SECTION B-B

NOT TO SCALE

DETAIL A

NOT TO SCALE

RETAINING WALL NOTES:

*** 1. **BLOCK COLOR SHALL BE NATURAL. THE SURFACE TEXTURE FOR THE WALL BLOCKS SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL PRIOR THE SUBMITTING OF THE SAMPLE BLOCK FOR FINAL APPROVAL. UPON COUNTY APPROVAL, ALL WALL BLOCKS SUPPLIED TO THE PROJECT SHALL FEATURE THIS SURFACE TEXTURE. ALL COSTS ASSOCIATED WITH THE SUBMITTAL PROCESS AND THOSE WITH THE MANUFACTURE OF THE FINAL SUPPLIED BLOCKS SHALL BE INCLUDED IN THE PRICE BID FOR THE WALL ITEMS.**

2. A. MAXIMUM 600mm UNDERCUT MAY BE ORDERED BY THE ENGINEER WHERE NECESSARY TO PROVIDE STABLE BEDDING CONDITIONS. UNDERCUTTING SHALL BE IN ACCORDANCE ITEM 206.01 M, STRUCTURE EXCAVATION.

   B. IF UNDERCUTTING IS ORDERED, THE LIFT THICKNESS AND COMPACTION REQUIREMENTS FOR SELECT STRUCTURE FILL BACKFILL SHALL BE AS ORDERED BY THE ENGINEER.

   C. THE ENGINEER SHALL BE CONSULTED IF IT APPEARS THAT UNDERCUTTING BEYOND THE 600mm MAXIMUM DEPTH MAY BE NEEDED.

3. THE LOCATION OF THE UNDERDRAIN SHALL BE A.O.B.E.

4. THE CONTRACTOR MUST DETERMINE THE SAFE EXCAVATION PROCEDURE FOR ANY EXCAVATION AND PERFORM ALL WORK IN ACCORDANCE WITH SUBSECTION 107-05 SAFETY AND HEALTH REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

5. REFER TO ROADWAY TYPICAL SECTIONS (TS-1 TO TS-4) FOR MEASUREMENT AND PAYMENT OF VARIOUS ROADWAY ITEMS.

6. LEVEL PAD SHALL MEET SPECIFICATION FOR SELECTED WALL SYSTEM.

FOR FILL TYPE RETAINING WALL ITEM LOCATIONS, PROFILES AND PAY LINES, REFER TO DWGS NO. RW-3 THRU RW-7.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
206.01 M	STRUCTURE EXCAVATION	CM			
552.16 M	EXCAVATION PROTECTION SYSTEM	SM			
554.XX M	FILL TYPE RETAINING WALL (VARIOUS HEIGHTS)	SM			
607.91 01 M	ORNAMENTAL METAL FENCE	M			
608.0101 M	CONCRETE SIDEWALKS AND DRIVEWAYS	CM			
609.0201 M	STONE CURB, GRANITE, TYPE A	M			
610.0203 M	ESTABLISHING TURF	SM			
613.02 M	PLACING TOPSOIL - TYPE A	CM			

AS BUILT REVISIONS

SIGNATURE DATE

FILL TYPE RETAINING WALL
TYPICAL SECTION (SHEET 2 OF 2)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

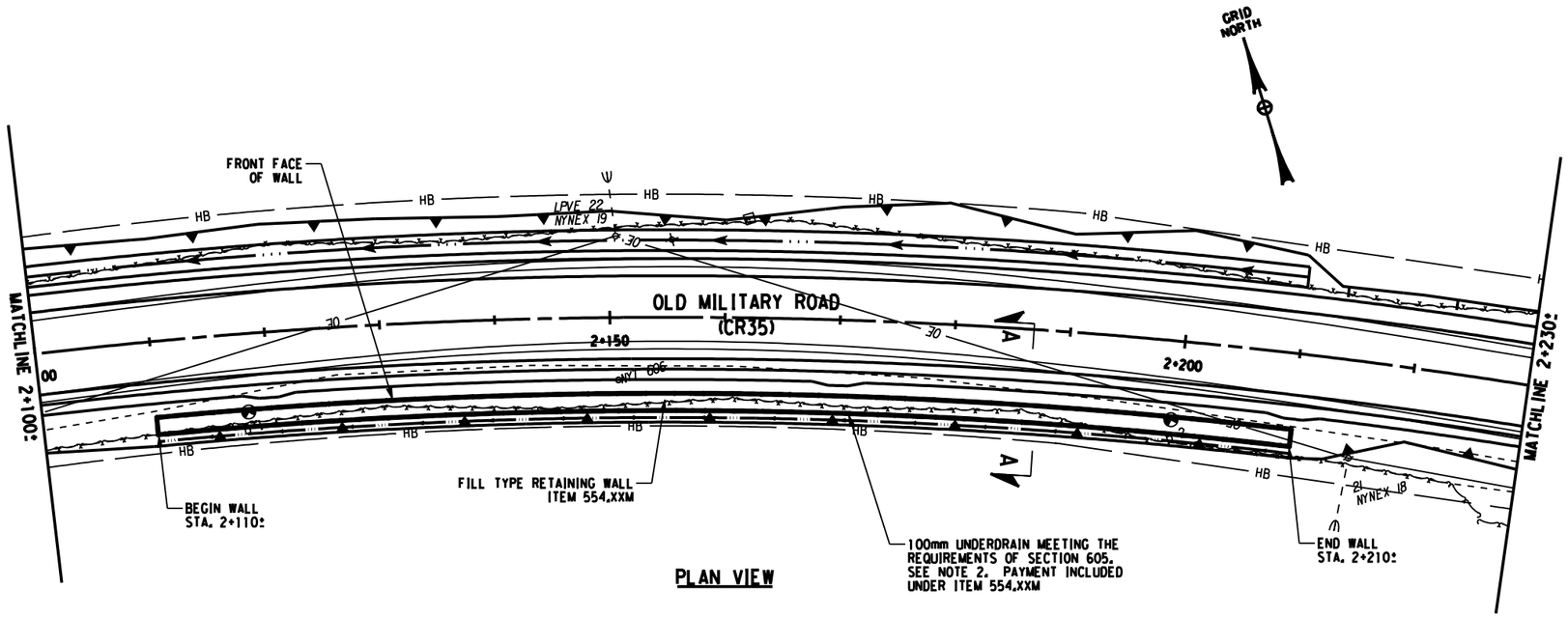
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPH_TYP_RET_WALL	ONE	AUGUST 2011	RW-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

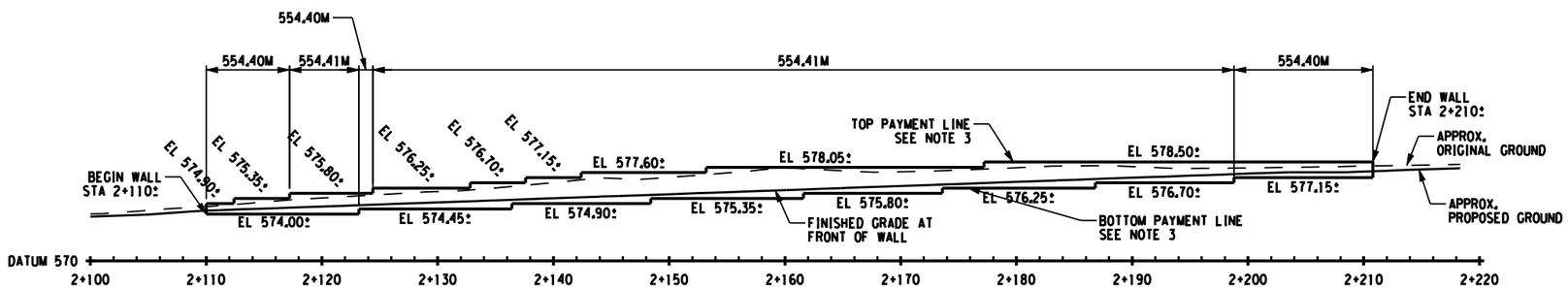
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		161	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW



ELEVATION VIEW

ITEM 554.XXM
FILL TYPE RETAINING WALL NO. 1
AREA = 199.8 SQM

5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM 554.40M	ITEM 554.41M
26.49 SM	173.34 SM

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL ELEVATION ASSUMES 450mm HIGH x 1200mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR ANY CHANGES. MINIMUM BURY DEPTH IS ASSUMED AT 300mm.
4. SEE DWG. RW-1 FOR SECTION A-A.

AS BUILT REVISIONS

SIGNATURE DATE

FILL TYPE RETAINING WALL NO. 1
PLAN AND ELEVATION

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

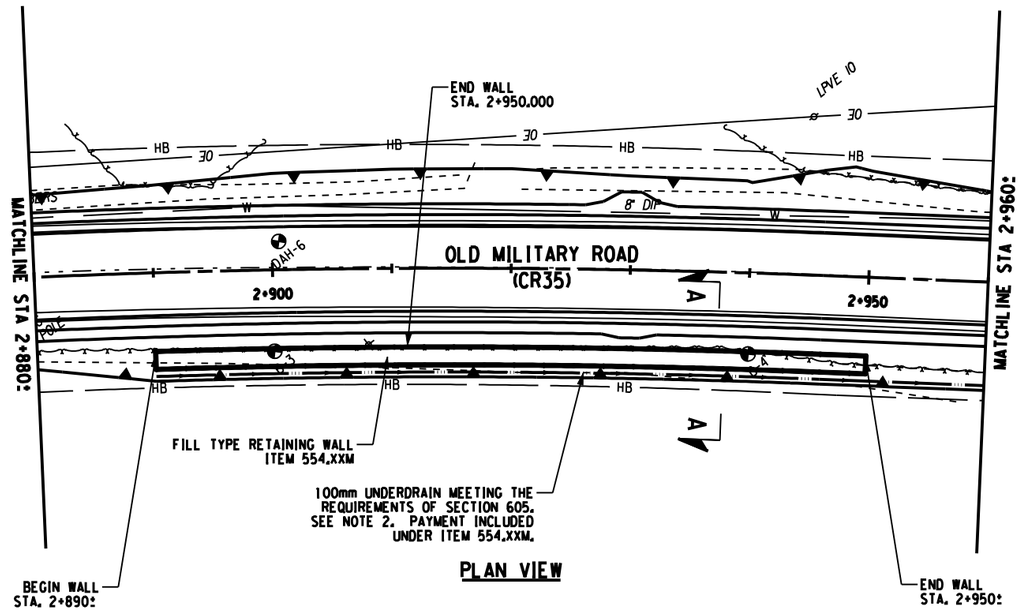
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_PRO_RET_WALL_01	ONE	AUGUST 2011	RW-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

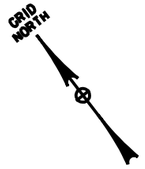
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

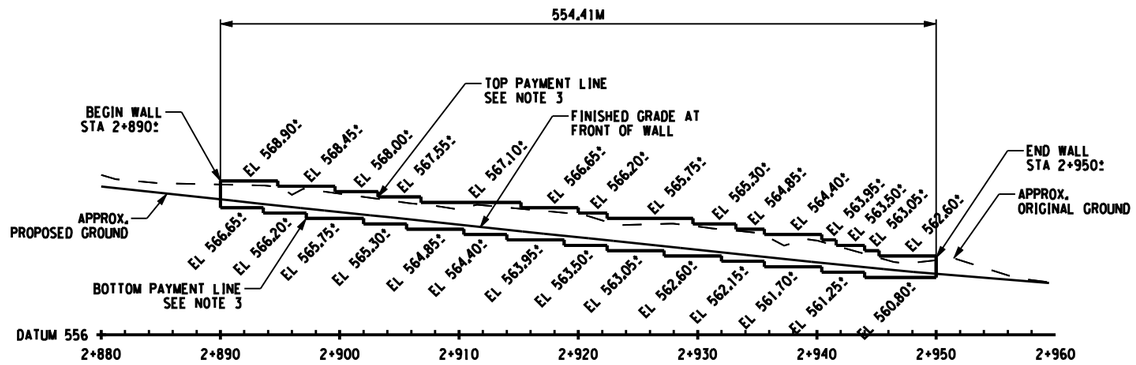
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		162	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW





ELEVATION VIEW

ITEM 554.XXM
FILL TYPE RETAINING WALL NO. 2
AREA = 152.3 SQM

5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM 554.41M
152.28 SM

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL ELEVATION ASSUMES 450mm HIGH x 1200mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR ANY CHANGES. MINIMUM BURY DEPTH IS ASSUMED AT 300mm.
4. SEE DWG. RW-1 FOR SECTION A-A.

AS BUILT REVISIONS

SIGNATURE DATE

FILL TYPE RETAINING WALL NO. 2
PLAN AND ELEVATION

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

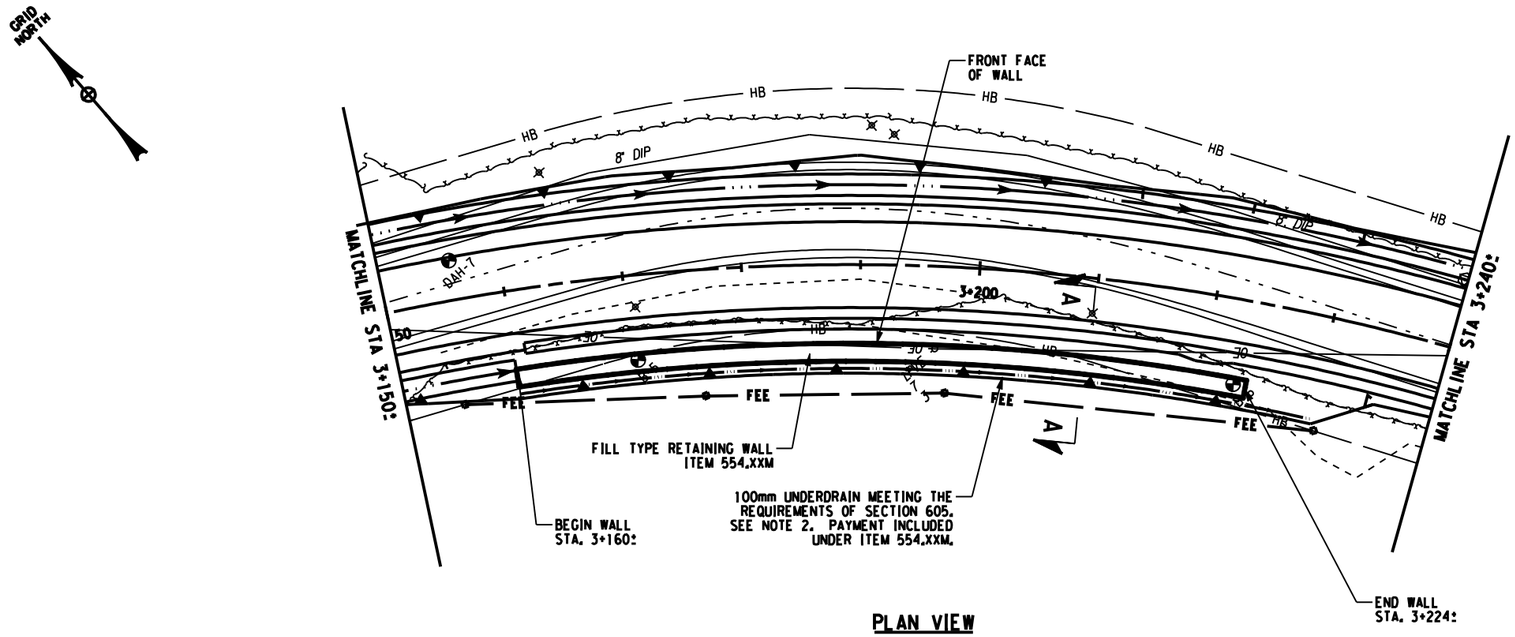
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_PRO.RET.WALL.02	ONE	AUGUST 2011	RW-4

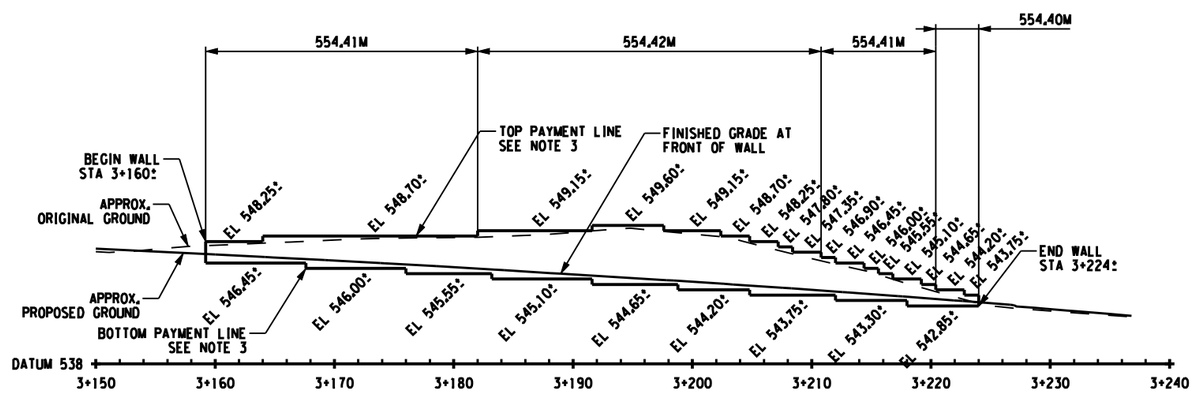
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		163	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN VIEW



ELEVATION VIEW

ITEM 554.XXM
FILL TYPE RETAINING WALL NO. 3
AREA = 213.3 SQM

5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

ITEM 554.40M	ITEM 554.41M	ITEM 554.42M
4.32 SM	82.62 SM	126.34 SM

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL ELEVATION ASSUMES 450mm HIGH x 1200mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR ANY CHANGES. MINIMUM BURY DEPTH IS ASSUMED AT 300mm.
4. SEE DWG. RW-1 FOR SECTION A-A.

AS BUILT REVISIONS

SIGNATURE DATE

FILL TYPE RETAINING WALL NO. 3
PLAN AND ELEVATION

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

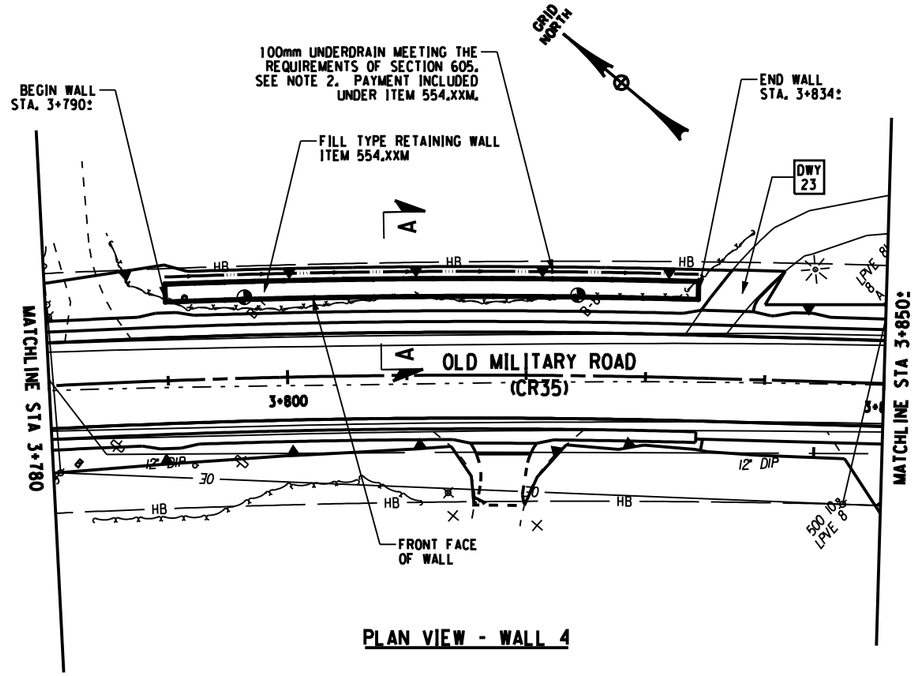
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_PRO.RET.WALL.03	ONE	AUGUST 2011	RW-5

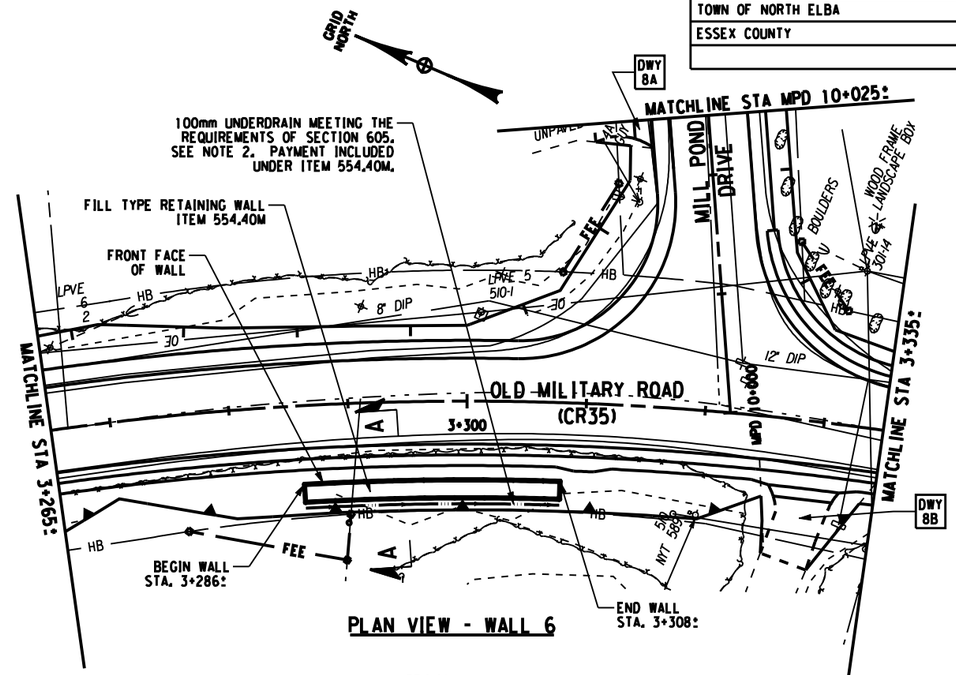
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		164	205

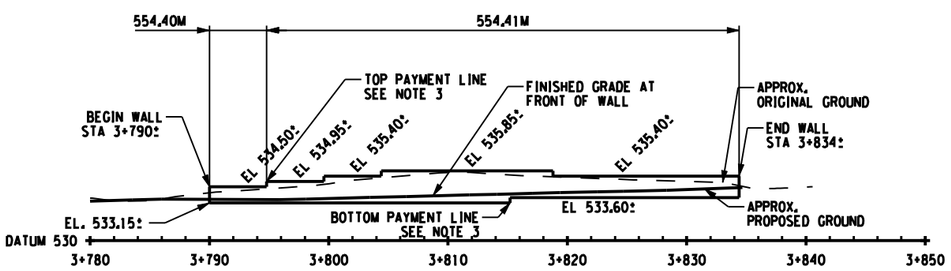
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



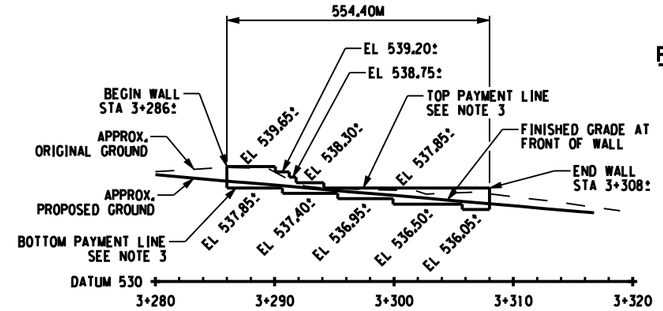
PLAN VIEW - WALL 4



PLAN VIEW - WALL 6



ELEVATION VIEW - WALL 4



ELEVATION VIEW - WALL 6

ITEM 554.40M	ITEM 554.41M
6.48 SM	84.78 SM

ITEM 554.XXM
FILL TYPE RETAINING WALL NO. 4
AREA = 91.3 SQM

ITEM 554.40M
FILL TYPE RETAINING WALL NO. 6
AREA = 28.6 SQM

5 0 5 10 15 20 25 m
SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-1.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL ELEVATION ASSUMES 450mm HIGH x 1200mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR ANY CHANGES. MINIMUM BURY DEPTH IS ASSUMED AT 300mm.
4. SEE DWG. RW-1 FOR SECTION A-A.

AS BUILT REVISIONS

SIGNATURE DATE

FILL TYPE RETAINING WALLS NO. 4 & 6
PLAN AND ELEVATION

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

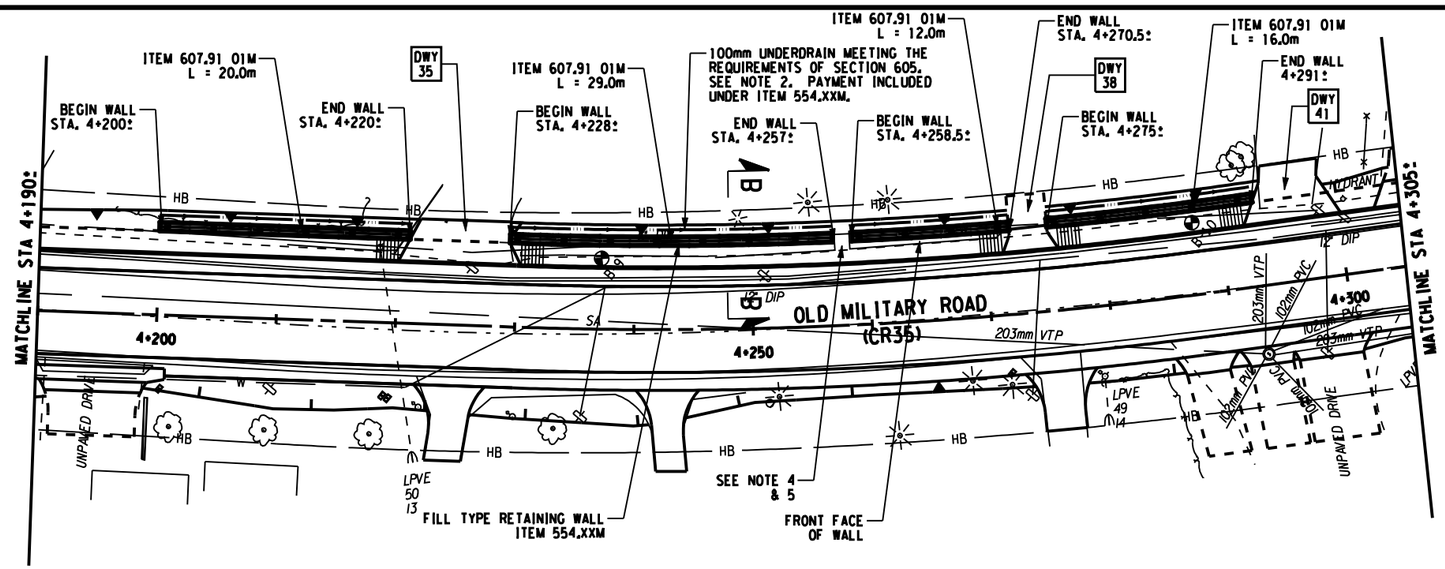
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_PRO_RET_WALL_04	ONE	AUGUST 2011	RW-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

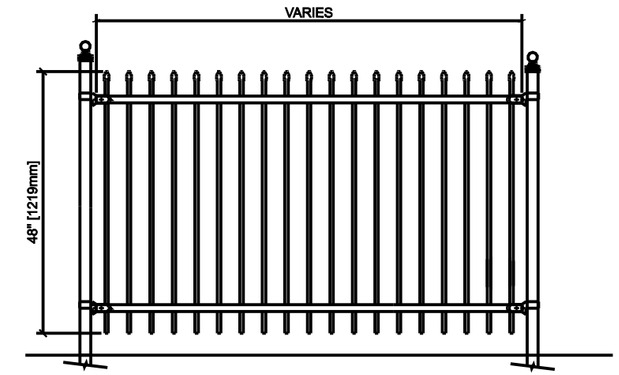
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		165	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

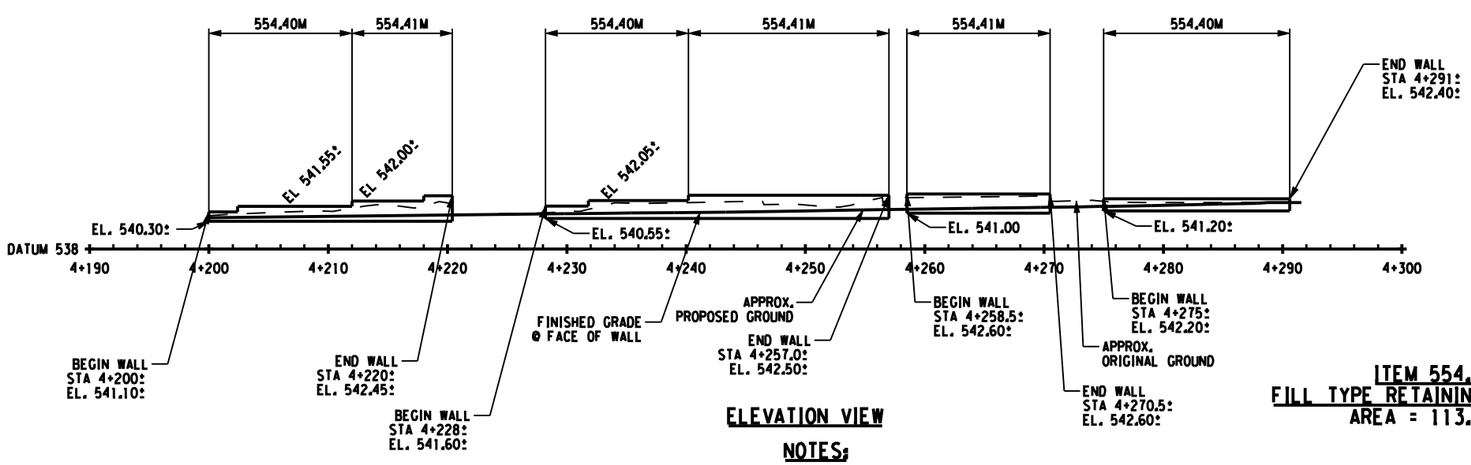


PLAN VIEW



CONTRACTOR SHALL SUBMIT PROPOSED FENCE STYLE FOR APPROVAL BY THE COUNTY.

ORNAMENTAL METAL FENCE (PICTORIAL) N.T.S.



ELEVATION VIEW

ITEM 554.XXM
FILL TYPE RETAINING WALL NO. 5
AREA = 113.2 SQM

ITEM 554.40M	ITEM 554.41M
45.90 SM	67.32 SM

5 0 5 10 15 20 25 m
SCALE

NOTES:

1. FOR TYPICAL SECTION, REFER TO DWG. RW-2.
2. PROVIDE CONNECTIONS TO HIGHWAY UNDER DRAIN @ 10m MAXIMUM SPACING.
3. WALL ELEVATION ASSUMES 450mm HIGH x 1200mm BLOCK DIMENSIONS. WALL STEPS MAY BE MODIFIED PER THE WALL FABRICATOR SYSTEM RECOMMENDATIONS, HOWEVER NO ADDITIONAL PAYMENT IN WALL AREA WILL BE PROVIDED FOR ANY CHANGES. MINIMUM BURY DEPTH IS ASSUMED AT 300mm.
4. EXISTING PRECAST CONCRETE STEPS TO BE REMOVED, STORED, & RESET ON 300mm OF A CRUSHED STONE LEVELING PAD MEETING THE SAME REQUIREMENTS OF THE FILL TYPE RETAINING WALL SYSTEM. PAYMENT TO BE INCLUDED IN ITEM 554.XXM.
5. ORNAMENTAL HAND RAIL TO BE PLACED ON EXISTING PRECAST CONCRETE STEPS A.O.B.E. COST INCLUDED IN ITEM 607.91 01M.
6. SEE DWG. RW-2 FOR SECTION B-B.

ORNAMENTAL METAL FENCE NOTES:

1. THE CONTRACTOR SHALL SUBMIT THREE (3) COPIES OF CATALOG CUTS OR DETAILED SHOP DRAWINGS TO THE COUNTY FOR REVIEW. SHOP DRAWINGS SHALL CLEARLY SHOW ALL MATERIALS, DIMENSIONS, FINISHES, AND CONNECTING AND JOINING METHODS. NO FABRICATION SHALL COMMENCE PRIOR TO THE WRITTEN APPROVAL OF THE COUNTY.
2. ASSEMBLY OF THE FENCE COMPONENTS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. THE FENCE SHALL BE INSTALLED TRUE TO LINE AND GRADE, WITH THE POSTS VERTICAL, AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
3. FOUNDATION: ALL FENCING ATTACHED TO THE WALL SHALL BE CONNECTED FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS FOR SUCH INSTALLATION, LOCATIONS AS SHOWN IN THE CONTRACT PLANS, OR AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL PROTECT ALL PARTS OF THE FENCE AND MAINTAIN IT IN AN UNDAMAGED CONDITION UNTIL COMPLETION AND ACCEPTANCE OF THE CONTRACT. ANY COMPONENTS OF THE FENCE DAMAGED AT ANY TIME PRIOR TO FINAL ACCEPTANCE SHALL BE REPAIRED OR REPLACED, TO THE ENGINEER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
5. MATERIALS: THE MATERIALS OF THE FENCE, POSTS, GATES, AND FINIALS SHALL BE MANUFACTURED FROM WROUGHT STEEL OR CAST IRON, WITH A ZINC-RICH HOT POWDER PRIMER AND SATIN BLACK POWDER COAT FINISH.
6. ALL LABOR AND MATERIALS REQUIRED TO INSTALL ORNAMENTAL METAL FENCE SHALL BE PAID FOR UNDER ITEM 607.91..01.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

FILL TYPE RETAINING WALL NO. 5
PLAN AND ELEVATION

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205
_PRO_RET_WALL_05

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

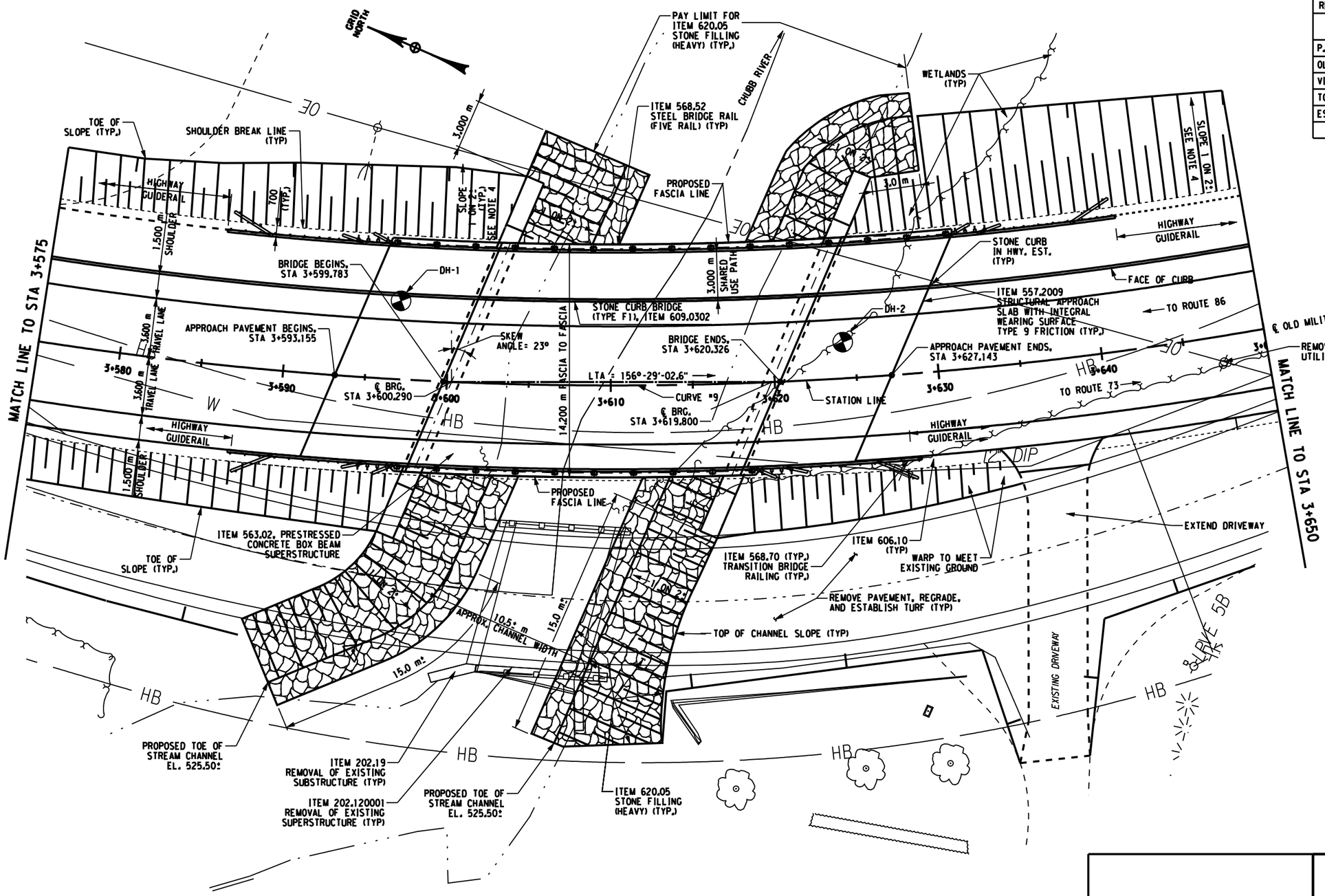
DOCUMENT NAME	REGION	DATE	DRAWING NO.
	ONE	AUGUST 2011	RW-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		166	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PLAN

3 0 3 5 8 10 13 m
SCALE

•LOAD RATING (LFD)		
INVENTORY	MS 38	68 METRIC TONS
OPERATING	MS 55	97 METRIC TONS

LOAD RATING (LRFR)		
INVENTORY	HL-93	1.65
OPERATING	HL-93	2.37

• THE MS RATINGS ARE BASED ON A MS23 (40 MT) VEHICLE

NOTES:

1.) FOR ABUTMENT PLAN AND ELEVATION SEE DWG. NO. ST-9 & ST-13
2.) FOR HIGHWAY CURVE DATA SEE DWG. NO. GP-12.
3.) FOR BRIDGE ELEVATION SEE DWG. NO. ST-2.
4.) SIDE SLOPES STEEPER THAN 1 ON 3 SHALL BE COVERED WITH ROLLED EROSION CONTROL PRODUCT - CLASS III, TYPE B PERMANENT, ITEM NO. 209.200201.
5.) FOR BRIDGE PROFILE SEE DWG NO. PR-14
6.) FOR ESTIMATE OF QUANTITIES SEE DWG NO'S EQ-1 AND EQ-2

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL BRIDGE PLAN

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

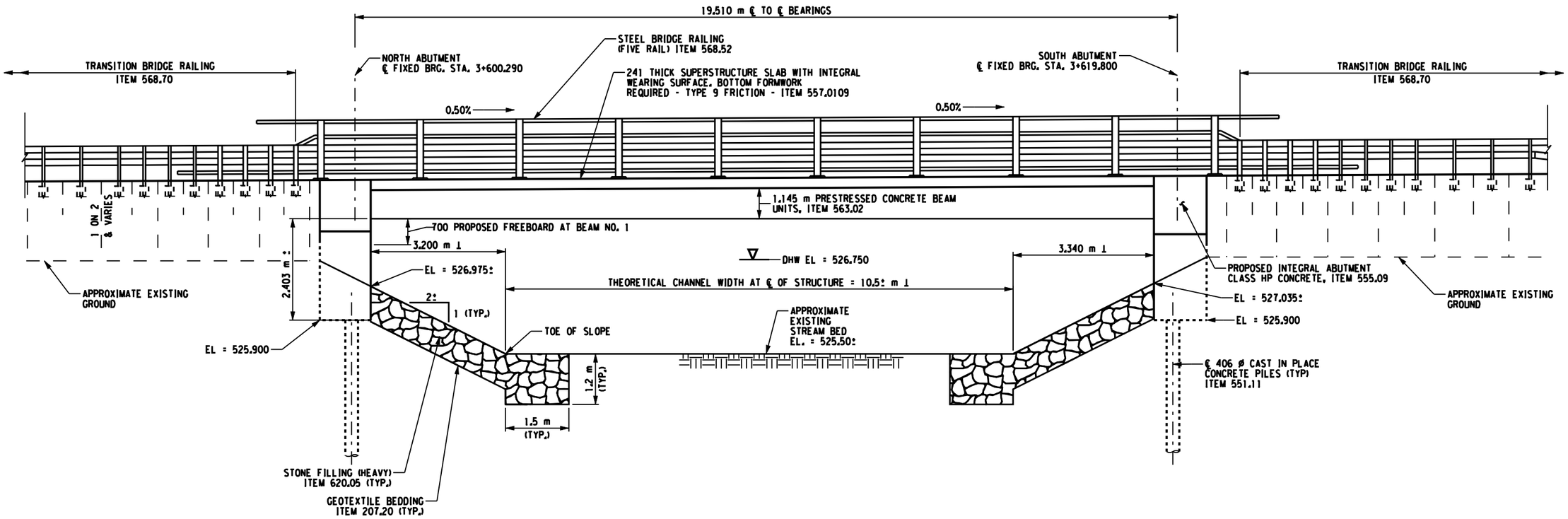
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.GEN	ONE	AUGUST 2011	ST-1

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		167	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



BRIDGE ELEVATION
NOT TO SCALE

HYDRAULIC DATA			
DRAINAGE AREA 35 km².		BASIC FLOOD	DESIGN FLOOD
RECURRENCY INTERVAL	(YEARS)	100	50
PEAK DISCHARGE	(m^3/S)	26.9	24.6
HIGH WATER ELEVATION AT POINT OF MAX. BACKWATER	EXISTING	527.83	527.73
	PROPOSED	526.82	526.75
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD = 1.2 m/SEC.			

NOTE:
1.) FOR TRANSVERSE BRIDGE SECTION SEE DWG. NO. ST-17.
2.) FOR BRIDGE RAILING LAYOUT SEE DWG. NO. ST-27.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

BRIDGE ELEVATION

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB.SEC.ELV.DGN	ONE	AUGUST 2011	ST-2

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		168	205
P.I.N. 1754.96				
OLD MILITARY ROAD (CR 35)				
VILLAGE OF LAKE PLACID				
TOWN OF NORTH ELBA				
ESSEX COUNTY				

GENERAL NOTES:

1. NOTE: IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
2. DESIGN CODE: NYSDOT "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" WITH ALL PROVISIONS IN EFFECT AS OF JANUARY 2009. (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF SUBSTRUCTURE AND DECK SLAB CONCRETE AT 28 DAYS: F'C = 21 MPA.)
3. LIVE LOAD: AASHTO HL - 93 AND NYSDOT DESIGN PERMIT VEHICLE.
4. CONSTRUCTION SPECIFICATIONS: "STANDARDS SPECIFICATIONS, CONSTRUCTION, AND MATERIALS, " NYSDOT OFFICE OF ENGINEERING, DATED MAY 4, 2006, WITH CURRENT ADDITIONS AND MODIFICATIONS, EXCEPT WHERE INDICATED OTHERWISE.
5. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN SI UNITS. ERECTION DRAWINGS ARE TO BE PREPARED IN DUAL UNITS.
6. THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 - SELECT STRUCTURE FILL.
7. THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
8. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105-09, WORK AFFECTING RAILROADS, OF THE STANDARD SPECIFICATIONS.
9. THE LOAD RATINGS ARE IN ACCORDANCE WITH THE AASHTO "MANUAL FOR CONDITION EVALUATION OF BRIDGES - 1994" WITH ALL INTERIM PROVISIONS IN EFFECT AND THE MANUAL FOR CONDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING (LRFR) OF HIGHWAY BRIDGES - OCTOBER 2003.
10. DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL "METRIC PROPERTIES OF STRUCTURE SHAPES WITH DIMENSIONS ACCORDING TO ASTM A6M."
11. THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL: THE MAINTENANCE AND MANAGEMENT OF ROADWAYS AND BRIDGES.
12. CLEARING AND GRUBBING SHALL BE REQUIRED WITHIN CONSTRUCTION LIMITS. COST TO BE INCLUDED UNDER ITEM 201.06.
13. THE CONTRACTOR SHALL SURVEY AND STAKEOUT FOR CONSTRUCTION OF STRUCTURE AND APPROACHES. COST TO BE INCLUDED UNDER ITEM 625.01.
14. RECORD PLANS FOR THIS STRUCTURE ARE NOT AVAILABLE.

SPECIAL BRIDGE FOUNDATION NOTES:

1. SUBSURFACE EXPLORATIONS HAVE BEEN MADE FOR THIS PROJECT AT LOCATIONS INDICATED ON THE GENERAL PLAN. BORING LOGS AND OTHER SUBSURFACE INFORMATION MADE AVAILABLE FOR THE INSPECTION OF BIDDERS WERE OBTAINED WITH REASONABLE CARE AND RECORDED IN GOOD FAITH BY THE COUNTY.
2. THE SOIL AND ROCK DESCRIPTIONS SHOWN ARE AS DETERMINED BY A VISUAL INSPECTION OF THE SAMPLES FROM THE VARIOUS EXPLORATIONS UNLESS OTHERWISE NOTED. THE OBSERVED WATER LEVELS AND/OR WATER CONDITIONS INDICATED THEREON ARE AS RECORDED AT THE TIME OF EXPLORATION. THESE LEVELS AND/OR CONDITIONS MAY VERY CONSIDERABLY, WITH TIME, ACCORDING TO THE PREVAILING CLIMATE, RAINFALL AND OTHER FACTORS.
3. IT IS UNDERSTOOD THAT SUCH INFORMATION WAS OBTAINED AND IS INTENDED FOR COUNTY DESIGN AND ESTIMATE PURPOSES ONLY. IT IS MADE AVAILABLE TO BIDDERS (IN GOOD FAITH) ONLY THAT THEY MAY HAVE ACCESS TO IDENTICAL SUBSURFACE INFORMATION AVAILABLE TO THE COUNTY, AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATIONS, INTERPRETATIONS, AND JUDGMENT OF THE BIDDER.
4. THE RECORDS OF THESE EXPLORATIONS ARE AVAILABLE TO THE BIDDERS FOR THEIR INSPECTION IN THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR 'S ATTENTION, HOWEVER, IS CALLED TO THE FACT THAT THE INFORMATION OBTAINED FROM THE SUBSURFACE EXPLORATIONS FURNISHED BY THE COUNTY IS NOT TO BE SUBSTITUTED FOR PERSONAL INVESTIGATION AND RESEARCH BY THE CONTRACTOR AS REQUIRED BY ARTICLE 3, EXAMINATION OF DOCUMENTS AND SITE, OF THE AGREEMENT.
6. IN THE EVENT THAT SUBSURFACE CONDITIONS VARY FROM THOSE SHOWN BY THE EXPLORATIONS, THE CONTRACTOR WILL STILL BE REQUIRED TO ESTABLISH THE FOUNDATIONS TO THE NECESSARY LOAD CARRYING CAPACITIES AS DIRECTED BY THE ENGINEER.
7. IT WILL BE THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO USE METHODS AND EQUIPMENT WHICH WILL INSURE THE SATISFACTORY COMPLETION OF THE REQUIRED WORK WITHOUT DELAY.

SUBSTRUCTURE NOTES:

1. ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
2. EXISTING SUBSTRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19 IN THE BRIDGE ESTIMATE.

SUBSTRUCTURE NOTES (CONT.):

3. HIGHWAY EMBANKMENT MATERIAL (HIGHWAY ESTIMATE) AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
4. SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS OF THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE COUNTY.
5. WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.
6. DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED TEMPORARY SETTLEMENT BASIN AS SHOWN ON DWG. ST-4 AND/OR APPROVED BY THE E.I.C. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS HAY BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE E.I.C.
7. SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE ENGINEER-IN-CHARGE SHALL CONTACT THE COUNTY FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.
8. ORDINARY HIGH WATER IS ESTIMATED TO BE: EL. 526.75±. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.
9. ORDINARY WATER IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN ORDINARY HIGH WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.
10. LOW WATER IS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.
11. EXCAVATION BELOW PLANNED BOTTOM OF SUBSTRUCTURE ELEVATION WILL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. BACKFILL OF UNAUTHORIZED EXCAVATIONS BELOW DESIGN SUBGRADES WILL BE AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, BACKFILL OF UNAUTHORIZED EXCAVATION BELOW THE EAST ABUTMENT WILL BE WITH FOOTING MATERIAL AND BACKFILL ELSEWHERE WILL BE WITH SELECT STRUCTURAL FILL.
12. ALL EXPOSED SURFACES OF NEW ABUTMENTS AND WINGWALLS SHALL BE SEALED ACCORDING TO ITEM 559.1696 18 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE (A.O.B.E)
13. GROUND WATER IS ASSUMED TO BE AT EL526.50±.

SUPERSTRUCTURE NOTES:

1. IN-PLANT INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE NEW YORK STATE PRESTRESSED CONCRETE CONSTRUCTION MANUAL (PCCM).
2. CONCRETE DECK PLACEMENT AND FINISHING OPERATIONS SHALL BE PERFORMED AS RAPIDLY AS POSSIBLE. THE ENGINEER MAY ORDER THE CONTRACTOR TO STOP PLACEMENT OPERATIONS AT ANY TIME IF, IN THE ENGINEER'S OPINION, CONCRETE PLACED DURING THE PLACEMENT HAS STARTED TO SET, OR IS ABOUT TO SET, AND FURTHER PLACEMENT OF CONCRETE WILL CAUSE DEFLECTION CRACKING.
3. LONGITUDINAL CONSTRUCTION JOINTS IN THE DECK WILL NOT BE PERMITTED.
4. DECK FINISHING MACHINE(S) SHALL BE OPERATED AS CLOSE TO THE SKEW ANGLE AS PRACTICABLE.
5. WET BURLAP CURING BLANKETS ARE REQUIRED TO BE PLACED ON THE CONCRETE DECK WITHIN 30 MINUTES OF THE CONCRETE BEING DEPOSITED INTO THE FORMS OR 5 MINUTES AFTER FINISHING, WHICHEVER COMES FIRST. THE PLACEMENT OF THE TURF DRAG TEXTURE SHALL NOT INTERFERE WITH THESE REQUIREMENTS.
6. IN THE EVENT THE CONTRACTOR'S DECK PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY THE CONTRACTOR'S OWN DECISION OR BY ORDER OF THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FINISHED DECK GRADE WHICH MATCHES THE PLANNED PROFILE. ANY SUBSEQUENT REVISIONS TO DECK FORMS MADE NECESSARY BY SUCH ACTION SHALL BE AT THE CONTRACTOR'S EXPENSE.
7. THE BRIDGE DECK AND APPROACH SLABS SHALL BE SAW-CUT GROOVED ACCORDING TO ITEM 558.02 - LONGITUDINAL SAW-CUT GROOVING OF STRUCTURAL SLAB SURFACES.
8. TOP SURFACES OF NEW BRIDGE DECKS, EXPOSED FACE OF FASCIA BEAM AND APPROACH SLABS SHALL BE SEALED ACCORDING TO ITEM 559.1896 18 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS.
9. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709M GRADE FOR DIAPHRAGMS.
10. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PROVISIONS OF THE CURRENT SPECIFICATIONS FOR SUPERSTRUCTURE SLABS, WHICH ALLOW THE OPTION OF (3) FORMING SYSTEMS FOR THE UNDERSIDE OF THE SLABS.
11. NO DEVIATIONS FROM THE HAUNCH DETAILS SHOWN ON THESE PLANS MAY BE MADE WITHOUT THE PERMISSION OF THE ENGINEER.

SUPERSTRUCTURE NOTES (CONT.):

12. SHOP DRAWING SUBMITTALS ARE REQUIRED FOR THE FOLLOWING BRIDGE RAIL/TRANSITION ITEMS: 568.52 AND 568.70
13. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE LARGE DECK OVERHANGS FOR THIS STRUCTURE. THE FASCIA BEAM DESIGN ASSUMES TYPICAL CONSTRUCTION LOADS DURING PLACEMENT OF THE CONCRETE DECK. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SUPPORT AND BRACING TO PREVENT THE FASCIA BEAMS FROM TWISTING OR EXCESSIVELY DEFLECTING UNDER THE CONCRETE DEAD LOAD AND CONSTRUCTION LOADS. ALL DESIGN EFFORT REQUIRED BY THE CONTRACTOR'S ENGINEER TO ASSURE THAT THE CONSTRUCTION LOADS DO NOT ADVERSELY AFFECT THE FASCIA BEAMS ARE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL SUBMIT OVERHANG FORMING DESIGN CALCULATIONS AND DETAILS TO THE COUNTY OR REPRESENTATIVE (E.I.C.) FOR APPROVAL.

REMOVAL NOTES:

1. THE EXISTING SUBSTRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE EXISTING SUBSTRUCTURES AS FOLLOWS:

   - COMPLETELY REMOVE THE PORTION OF THE EXISTING SUBSTRUCTURES WITHIN A LATERAL LIMIT OF 1 m OF THE PROPOSED SUBSTRUCTURES.

   - REMOVE THE PORTION OF THE EXISTING SUBSTRUCTURES OUTSIDE OF THIS LATERAL LIMIT AS FOLLOWS:

   - EXISTING SUBSTRUCTURES LOCATED UNDER PROPOSED ROADWAY - REMOVE TO 0.6 m BELOW SUBGRADE SURFACE.

   - EXISTING SUBSTRUCTURES LOCATED UNDER PROPOSED STONE FILLING - REMOVE TO BOTTOM OF STONE FILLING.

   - EXISTING SUBSTRUCTURES AT ALL OTHER LOCATIONS - REMOVE TO 0.3 m BELOW FINISHED GRADE.
2. THE CONTRACTOR 'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 202-3.01 GENERAL AND SAFETY REQUIREMENTS. A REMOVAL PLAN SHALL BE SUBMITTED TO THE ENGINEER FIFTEEN (15) DAYS PRIOR TO BEGINNING THE DEMOLITION. THE REQUIREMENT THAT IT IS SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IS WAIVED.
3. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL IN THE AREA BELOW THE BRIDGE, EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS, OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.
4. ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, AT NO COST TO THE COUNTY.
5. CARE SHOULD BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION, AND NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS NATURAL GROWTH SHALL BE RESTORED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER. (A.D.B.E.)

SUPERSTRUCTURE REMOVAL NOTES:

1. THE EXISTING SUPERSTRUCTURE INCLUDING THE: STEEL BEAMS, DIAPHRAGMS, CONCRETE DECK, RAILINGS AND OTHER APPURTANCES CONNECTED TO OR ON THE SUPERSTRUCTURE SYSTEM SHALL BE REMOVED UNDER ITEM 202.120001 IN THE BRIDGE ESTIMATE.

REINFORCEMENT NOTES:

1. BAR REINFORCEMENT SPACING INDICATED ON THE PLANS ARE MAXIMUM UNLESS OTHERWISE SPECIFIED.
2. COVER FOR BAR REINFORCEMENT ON THESE PLANS SHALL BE 100 MM (ADJACENT TO THE ARCHITECTURAL FORMS) AND 50 MM ELSEWHERE UNLESS OTHERWISE SPECIFIED.
3. ALL BAR REINFORCEMENT INDICATED ON THESE PLANS SHALL BE EPOXY COATED, EXCEPT AS NOTED IN THE PRESTRESSED CONCRETE BEAM AND APPROACH PAVEMENT DRAWINGS

ARCHITECTURAL TREATMENT NOTES

1. THE ARCHITECTURAL TREATMENT OF CONCRETE SURFACES, ITEM 555.72 16, SHALL EXTEND A MIN. OF .6M BELOW THE FINISHED GRADE LINE OR AS DIRECTED BY THE ENGINEER. FOR ADDITIONAL INFORMATION SEE THE SPECIAL NOTES IN THE CONTRACT PROPOSAL DOCUMENT.
2. THE ARCHITECTURAL TREATMENT SHALL BE APPLIED TO ALL EXPOSED VERTICAL SURFACES ON THE ABUTMENTS AND WINGWALLS OR AS IDENTIFIED ON THE CONTRACT PLANS.

INTEGRAL ABUTMENT CONSTRUCTION PROCEDURE:

1. DRIVE CLOSED END PIPE PILES AND CUT-OFF AT THE ELEVATION SHOWN.
2. PLACE CONCRETE AND REINFORCEMENT CAGE IN CLOSED PIPE PILES.
3. PLACE ABUTMENT STEM CONCRETE TO BRIDGE SEAT ELEVATION.
4. BACKFILL ABUTMENT STEMS TO 150 mm BELOW THE BRIDGE SEAT ELEVATION. NO BACKFILL OF THE ABUTMENT STEMS WILL BE ALLOWED UNTIL THE ABUTMENTS HAVE CURED A MINIMUM OF 7 DAYS.
5. PLACE STONE FILL AT LOCATION INDICATED ON THE PLANS.
6. ERECT THE PRESTRESSED UNITS ON THE BEARING PADS.
7. PLACE CLASS HP CONCRETE ABOVE THE BRIDGE SEAT ELEVATION FOR THE ABUTMENT BACKWALL AND DECK SLAB, TO FACILITATE COMPLETE CONSOLIDATION OF THE CONCRETE BETWEEN THE TOP OF BRIDGE SEAT AND BOTTOM OF BEAMS. PROVIDE A VENT HOLE BETWEEN THE BEAMS FOR THE INSERTION OF A 25MM DIAMETER VIBRATOR IN THE FRONT FORM UNDER EACH BEAM. HIGH RANGE WATER REDUCERS (SUPERPLASTICIZERS) MAY BE ADDED ONLY FOR THE ABUTMENT POUR-UP TO THE TOP OF THE PRESTRESSED UNITS; HIGH RANGE WATER REDUCER WILL NOT BE ALLOWED FOR THE DECK POUR.
8. PLACE WINGWALL CONCRETE FROM ABUTMENT BRIDGE SEAT TO TOP OF WINGWALL ELEVATION.
9. BACKFILL ABUTMENT TO SUBGRADE. NO BACKFILLING WILL BE ALLOWED UNTIL THE WINGWALLS HAVE CURED A MINIMUM OF 7 DAYS.
10. PLACE THE CONCRETE FOR THE APPROACH SLABS.

UTILITY NOTES :

1. HIGH VOLTAGE ELECTRICAL LINES ARE IN PROXIMITY TO THIS BRIDGE. REFER TO THE ELECTRICAL SAFETY NOTE CONTAINED IN THE CONTRACT PROPOSAL FOR SPECIAL CONTRACTOR SAFETY REQUIREMENTS.

STORAGE OF MATERIALS :

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMISSION FROM THE COUNTY FOR LOCATIONS TO BE USED TO STORE MATERIALS WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL OBTAIN THE WRITTEN PERMISSION OF THE PROPERTY OWNERS PRIOR TO UTILIZING ANY AREAS OUTSIDE OF THE RIGHT-OF-WAY TO STORE MATERIALS. A COPY OF ANY WRITTEN PERMISSION TO STORE MATERIALS ON PRIVATE PROPERTY, IF OBTAINED, SHALL BE SUBMITTED TO THE ENGINEER.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL BRIDGE NOTES

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
175521_CPB_GNN.DGN	ONE	AUGUST 2011	ST-3

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY K.BALDWIN
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		169	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	BRIDGE QUANTITY	BRIDGE FINAL
201.06	CLEARING AND GRUBBING	LS	NEC	
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	NEC	
202.19	REMOVAL OF SUBSTRUCTURES	CM	60	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	634	
203.21	SELECT STRUCTURE FILL	CM	161	
206.01	STRUCTURE EXCAVATION	CM	235	
206.04	TRENCH AND CULVERT EXCAVATION - O.G.	CM	163	
207.20	GEOTEXTILE BEDDING	SQM	701	
207.27	PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN	SQM	225	
209.13	SILT FENCE-TEMPORARY	M	500	
209.140201	SEDIMENT TRAP, SAND BAG - TEMPORARY	EACH	1	
209.140202	SEDIMENT TRAP, SAND BAG - TEMPORARY	EACH	1	
209.1501	TURBIDITY CURTAIN	M	120	
210.481301	REMOVAL AND DISPOSAL OF MISCELLANEOUS ACM	LS	NEC	
551.11	CAST-IN-PLACE CONCRETE PILES	M	260	
551.13	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC	
551.14	DYNAMIC PILE TESTING	EACH	3	
552.13	TEMPORARY STEEL SHEETING	SQM	287	
553.020001	COFFERDAMS (TYPE 2)	EACH	1	
553.020002	COFFERDAMS (TYPE 2)	EACH	1	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CM	120	
555.72 16	ARCHITECTURAL PATTERNING OF CONCRETE SURFACES	SQM	102	
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	KG	2507	
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	KG	19761	
557.0109	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM FORMWORK REQUIRED - TYPE 9 FRICTION	SQM	292	
557.2009	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYPE 9 FRICTION	SQM	185	
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SQM	340	
559.1696 18	PROTECTIVE SEALING OF STRUCTURAL CONCRETE	SQM	152	
559.1896 18	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SQM	440	
563.02	PRESTRESSED CONCRETE BOX BEAMS UNITS	SQM	143	
565.30	RUBBER IMPREGNATED WOVEN COTTON-POLYESTER FABRIC	EACH	18	
568.52	STEEL BRIDGE RAILING (FIVE RAIL)	M	59	
568.70	TRANSITION BRIDGE RAILING	M	39	
609.0302	STONE CURB-BRIDGE (TYPE F1)	M	35	
610.0203	ESTABLISHING TURF	SM	475	
613.02	PLACING TOPSOIL - TYPE A	CM	48	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	NEC	
620.05	STONE FILLING (HEAVY)	CM	405	
625.01	SURVEY OPERATIONS	LS	NEC	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

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SIGNATURE DATE

ESTIMATE OF QUANTITIES
BRIDGE ESTIMATE
SHEET 1 OF 2

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_EOQ	ONE	AUGUST 2011	ST-4

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		170	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION		BRIDGE QUANTITY	BRIDGE FINAL
637.03	CONCRETE CYLINDER CURING BOX	EACH	1	
637.12	ENGINEER'S FIELD OFFICE - TYPE 2	MNTH	4	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	1950	
697.03	FIELD CHANGE PAYMENT	DC	51488.7	
698.05	FUEL PRICE ADJUSTMENT	DC	85	
699.040001	MOBILIZATION	LS	NEC	

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SIGNATURE DATE

ESTIMATE OF QUANTITIES
BRIDGE ESTIMATE
SHEET 2 OF 2

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_EOQ	ONE	AUGUST 2011	ST-5

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. BALDWIN

FILE NAME =
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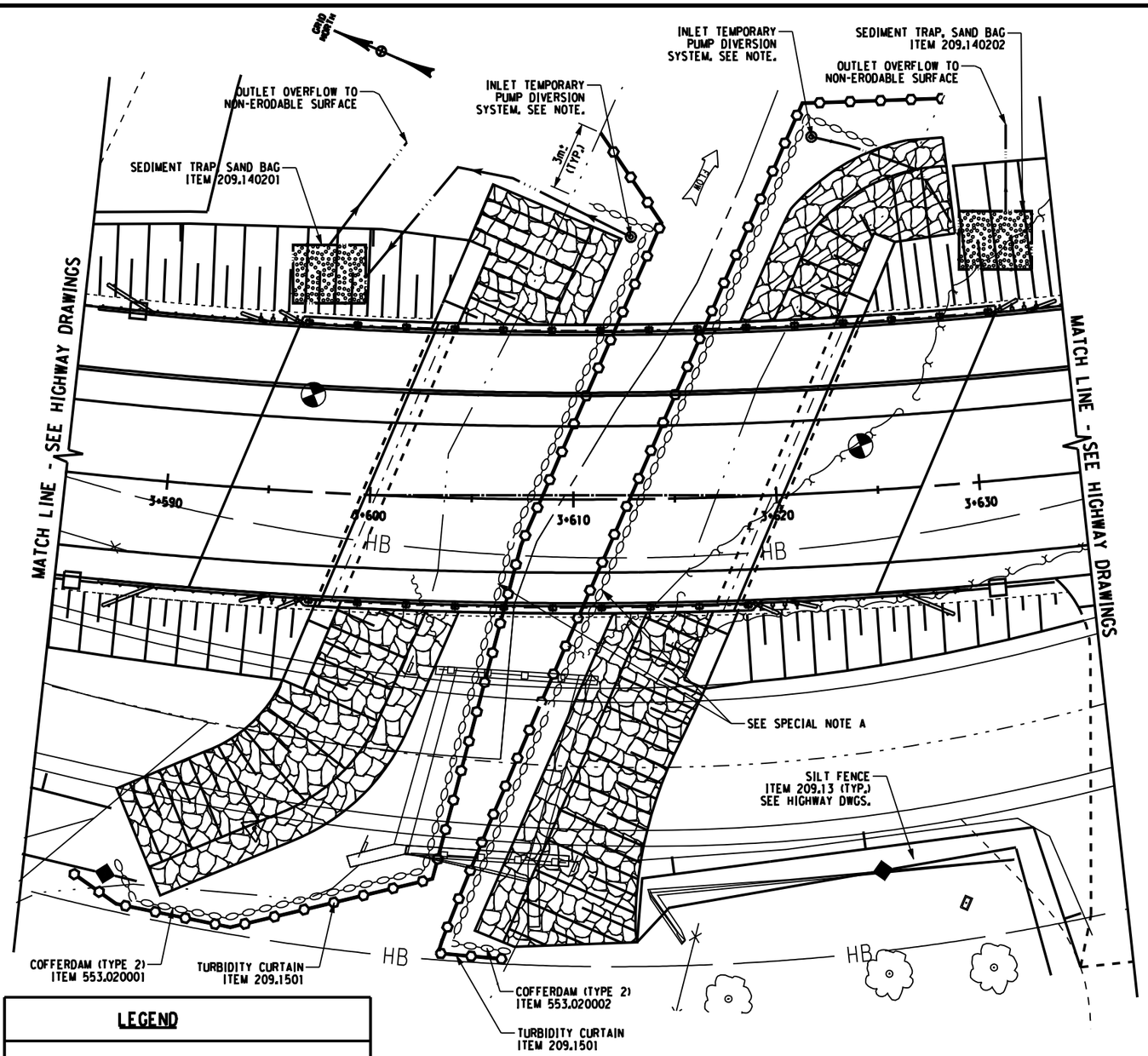

LEGEND

- PROPOSED CUT
- PROPOSED FILL
- COFFERDAMS (TYPE 2) ITEM 553.020001 & ITEM 553.020002
- PUMP DIVERSION
- SEDIMENT TRAP, SAND BAG - TEMPORARY ITEM 209.140201 AND ITEM 209.140202
- STONE CHECK DAM, ITEM 209.110102
- SILT FENCE, ITEM 209.13
- TURBIDITY CURTAIN, ITEM 209.1501

SPECIAL NOTE A:

COFFERDAM PLACEMENT FOR THE REMOVAL OF THE EXISTING SUBSTRUCTURE SHALL BE PHASED SUCH THAT THE MIN. CHANNEL OPENING REMAINS AT 6.0 METERS MIN.

PERMITS

THE FOLLOWING PERMITS HAVE BEEN ISSUED FOR THIS PROJECT:

NYSDEC PERMIT FOR STREAM DISTURBANCE AND WATER QUALITY CERTIFICATION.

NYSDEC SPDES PERMIT (GP-0-10-001).

A.C.O.E. NATIONWIDE 3 PERMIT.

ADDITIONAL PERMIT CONDITIONS AND STREAM RESTRICTIONS ARE CONTAINED IN THESE DOCUMENTS AND SHOULD BE REVIEWED PRIOR TO THE COMMENCEMENT OF STREAM ACTIVITIES.

3 0 3 5 8 10 13 m

SCALE

GENERAL STREAM AND WATER QUALITY NOTES:

1. DISTURBANCE TO THE BED OR BANKS OF THE STREAM SHALL BE KEPT TO THE MINIMUM NECESSARY TO COMPLETE THE PROJECT.
2. ALL STREAM WORK SHALL BE STARTED AND COMPLETED IN ONE CONTINUOUS OPERATION.
3. EQUIPMENT OPERATION IN OPEN OR RUNNING WATER IS PROHIBITED.
4. ALL DISTURBED BANKS SHALL BE GRADED TO HAVE A 1-METER VERTICAL TO 2-METER HORIZONTAL SLOPE OR AS DETAILED IN THESE PLANS OR FLATTER TO PREVENT EROSION. ALL PERMANENT SLOPES STEEPER THAN 1 ON 2 SHALL BE COVERED BY A PERMANENT ROLLED EROSION CONTROL PRODUCT. SEE ADDITIONAL NOTES, THIS DWG.
5. NO PETROLEUM PRODUCTS OR EXCESSIVE AMOUNTS OF SILT, CLAY, OR MUD SHALL BE PERMITTED TO ENTER ANY WATER BODY.
6. NO FRESH CONCRETE, LEACHATE, OR WASHING FROM EQUIPMENT OR TRUCKS, SHALL BE ALLOWED TO ENTER ANY WATER BODY.
7. ANY DEBRIS OR EXCESS MATERIALS, INCLUDING DREDGED SPOILS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF THE STREAM TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
8. TIMBERS, PILINGS, SHEATHING AND OTHER WOODEN COMPONENTS TREATED WITH PENTACHLOROPHENOL OR FRESHLY TREATED WITH CREOSOTE SHALL NOT BE USED IN ANY ASPECT OF CONSTRUCTION WHERE IT MAY COME INTO PERIODIC OR CONTINUOUS CONTACT WITH THE BODY OF WATER INVOLVED.
9. IN ALL CASES INVOLVING WORK IN A STREAM, EVERY EFFORT SHALL BE MADE TO RETURN THE STREAM TO THE HIGHEST POSSIBLE STANDARD OF AESTHETIC VALUE AND WATER QUALITY AS DETERMINED BY THE ENGINEER. MODIFIED STREAMS SHALL HAVE A ℄ .20 m TO .30 m LOWER THEN THE TOW OF THE CHANNEL BANK
10. IF WATER IS TAKEN FROM A STREAM FOR CONSTRUCTION PURPOSES AND AN IMPOUNDMENT STRUCTURE IS NEEDED, SUCH STRUCTURE SHALL BE ERECTED IN A MANNER CAUSING THE LEAST POSSIBLE DISTURBANCE TO THE STREAM. FLOW ABOVE THE WORK SITE SHALL EQUAL FLOW BELOW THE WORKSITE.

BANK STABILIZATION:

1. ANY STREAM BANK GRADING SHALL BE CARRIED OUT BY EQUIPMENT OPERATING ON DRY LAND NEXT TO THE STREAM BED.
2. TEMPORARY COFFERDAMS MADE OF CLEAN GRAVEL, SANDBAGS, OR OTHER APPROVED MEASURES SHALL BE INSTALLED TO ISOLATE THE WORK AREA FROM THE REST OF THE WATER BODY BEFORE STARTING THE PROJECT. COFFERDAMS SHALL REMAIN IN PLACE UNTIL THE WATER CLARITY IN THE COVERED AREA MATCHES THE OPEN WATER. IT SHALL BE COMPLETELY REMOVED UPON COMPLETION OF WORK. NOTE: IF THE PROJECT AREA IS IN OR SURROUNDED BY IMPOUNDED WATER, OR IN LOW-FLOW SITUATION, THE COFFERDAM SHOULD ALSO BE SUPPLEMENTED WITH A TEMPORARY SILT CURTAIN WEIGHTED ACROSS THE BOTTOM AND SUSPENDED ON FLOATS, POSITIONED VERTICALLY IN THE WATER TO SURROUND THE WORK AREA BEFORE STARTING THE PROJECT. THE CURTAIN SHALL REMAIN IN PLACE UNTIL THE WATER CLARITY IN THE COVERED AREA MATCHES THE OPEN WATER. (FILTER FABRIC, TARPS OR PLASTIC SHEETING MAY BE USED FOR THE SILT CURTAIN AND SHALL BE COMPLETELY REMOVED UPON COMPLETION.) THE BARRIER IS TO BE PUT IN PLACE BEFORE ANY DISTURBANCE OF THE GROUND OCCURS.
3. DURING STREAM BANK GRADING, SOIL SHALL NOT BE ALLOWED TO ENTER THE STREAM BED OR FLOWING WATER.
4. THE STREAM BANKS SHALL BE STABILIZED BY HEAVY STONE FILL PLACED ON A SLOPE. THE TOE OF THE STONE SHALL BE KEYED INTO THE STREAMBED. ANY NEWLY CREATED OR ALTERED SLOPES FOR STONE PLACEMENT OR RE-VEGETATION SHALL BE GRADED TO 1-METER VERTICAL TO 2-METER HORIZONTAL OR FLATTER.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		171	205
P.I.N. 1754.96				
OLD MILITARY ROAD (CR 35)				
VILLAGE OF LAKE PLACID				
TOWN OF NORTH ELBA				
ESSEX COUNTY				

BANK STABILIZATION (CONT.):

5. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THE PROJECT SHALL BE GRADED AND SEEDED WITH AN APPROPRIATE MIX OF ANNUAL AND PERENNIAL GRASS SEED AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL GRADING. MULCH SHALL BE MAINTAINED UNTIL A VEGETATIVE COVER IS ESTABLISHED UNDER THE PROVISIONS OF ITEM 209.1003.
6. THE WORK AREA SHALL BE GRADED TO MATCH, AS UNIFORMLY AS POSSIBLE, THE ELEVATION AND CONTOURS OF THE UNDISTURBED LAND NEXT TO THE WORK AREA.
7. ALL DISTURBED AREAS WHERE THE SOIL IS TEMPORARILY EXPOSED OR STOCKPILED SHALL BE STABILIZED BY TEMPORARY SEEDING OR GROUND COVERS.
8. ANY EXCAVATED TOPSOIL ENCOUNTERED SHALL BE SEPARATED FROM SUBSOIL AND STOCKPILED. THE TOPSOIL IS TO BE PLACED BACK ON TOP DURING SITE GRADING.
9. RAW BANKS SHALL BE PROTECTED EITHER BY A ROLLED EROSION CONTROL PRODUCTS AND/OR MULCH AND SEED, AS NEEDED. COST TO BE INCLUDED AS NOTED IN THE CONTRACT DOCUMENTS.
10. IF SEEDING IS IMPRACTICABLE, DUE TO THE SEASON OF THE YEAR, A TEMPORARY VEGETATIVE GROUND COVER SHALL BE ESTABLISHED AND FINAL SEEDING SHALL BE DONE AT THE EARLIEST OPPORTUNITY AFTER FAVORABLE WEATHER CONDITIONS RETURN, BUT NOT MORE THE SIX MONTHS AFTER PROJECT COMPLETION.

STREAM CROSSINGS:

1. THE VEHICLE SHALL BE INSPECTED FOR OIL OR FUEL LEAKS PRIOR TO CROSSING. ANY LEAKS SHALL BE STOPPED PRIOR TO CROSSING.
2. THE VEHICLE SHALL REMAIN IN THE WATER FOR THE MINIMUM TIME NEEDED TO CROSS THE STREAM.
3. IF A BANK CUT IS REQUIRED, OR MACHINE LEAVES RAW EARTH EXPOSED, THE BANK IS TO BE STABILIZED UPON WORK COMPLETION.

STREAM PROTECTION NOTES:

1. STREAM CLASSIFICATION OF SITE IS CLASS C(T).
2. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES.

TEMPORARY DIVERSION NOTE:

1. THE SITE DEWATERING AND PUMPING SCHEMATIC SHOWN ON THIS DWG. SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ITEMS 209.140201, 209.140202, 553.020001, AND 553.020002. ALL MATERIALS SHALL BE REMOVED FROM THE SITE AFTER DEWATERING OPERATIONS ARE COMPLETE.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

WATER POLLUTION CONTROL PLAN

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_ECP.DGN	ONE	AUGUST 2011	ST-6

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = AUGUST 25, 2011
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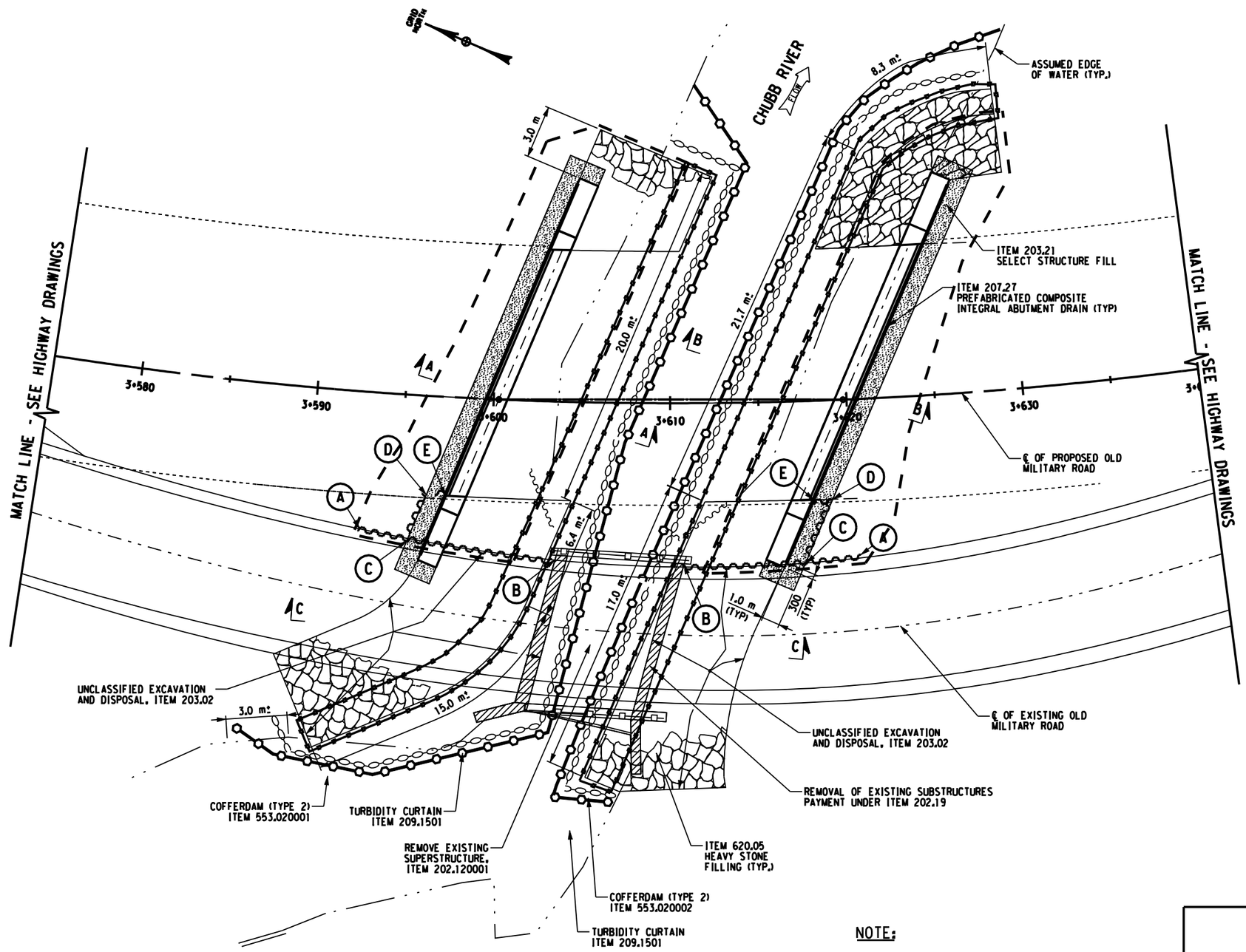
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		172	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



EXCAVATION PLAN

LEGEND

- APPROXIMATE EXISTING GROUND SURFACE
- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY. (BRIDGE ESTIMATE)
- HIGHWAY EMBANKMENT MATERIAL (HIGHWAY ESTIMATE)
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER ITEM 206.01, STRUCTURE EXCAVATION (BRIDGE ESTIMATE) OR 206.04 (TRENCH & CULVERT EXCAVATION)
- STONE FILLING - HEAVY (ITEM 620.05)
- REMOVAL OF SUBSTRUCTURES (ITEM 202.19)
- ITEM 207.27 PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN (PCIAD)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, (ITEM 206.01)
- DESIGNATES COFFERDAM (TYPE 2), ITEM 553.020001 AND ITEM 553.020002.
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH & CULVERT EXCAVATION - O.G. (ITEM 206.04)
- ITEM 209.1501 TURBIDITY CURTAIN
- ITEM 552.13 - TEMPORARY STEEL SHEETING

NOTE:

1. SEE DWG NO. ST-6 FOR SECTIONS.

NOTE:

(A) TO (E)

DENOTES THE TEMPORARY STEEL SHEET PILING CONSTRUCTION SEQUENCE LINES, SEE DWG NO. ST-7 FOR ELEVATIONS.

3 0 3 5 8 10 13 m
SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

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SIGNATURE DATE

EXCAVATION AND REMOVAL PLAN

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.ERW.PLN	ONE	AUGUST 2011	ST-7

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

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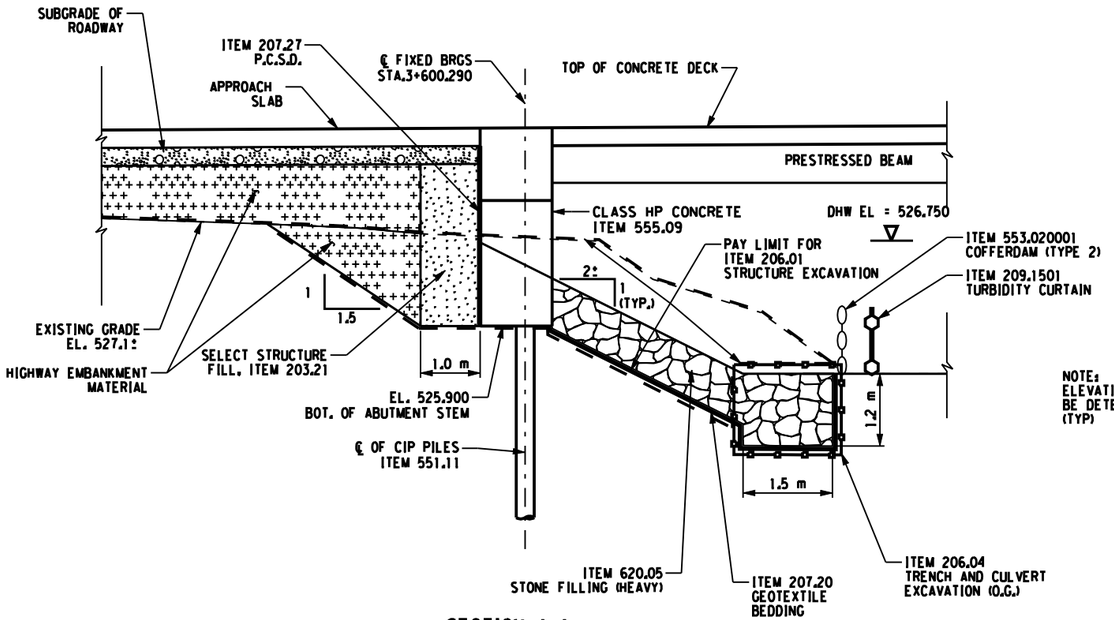
1	N.Y.		173	205

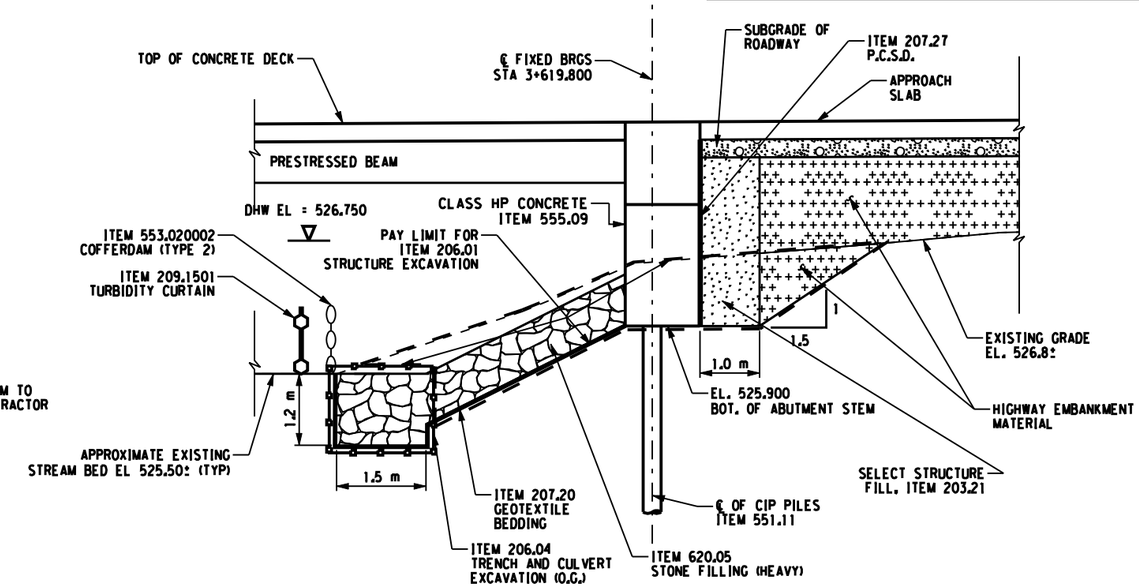
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SECTION A-A

NORTH ABUTMENT
NOT TO SCALE

NOTE:
ELEVATION OF COFFERDAM TO BE DETERMINED BY CONTRACTOR (TYP)

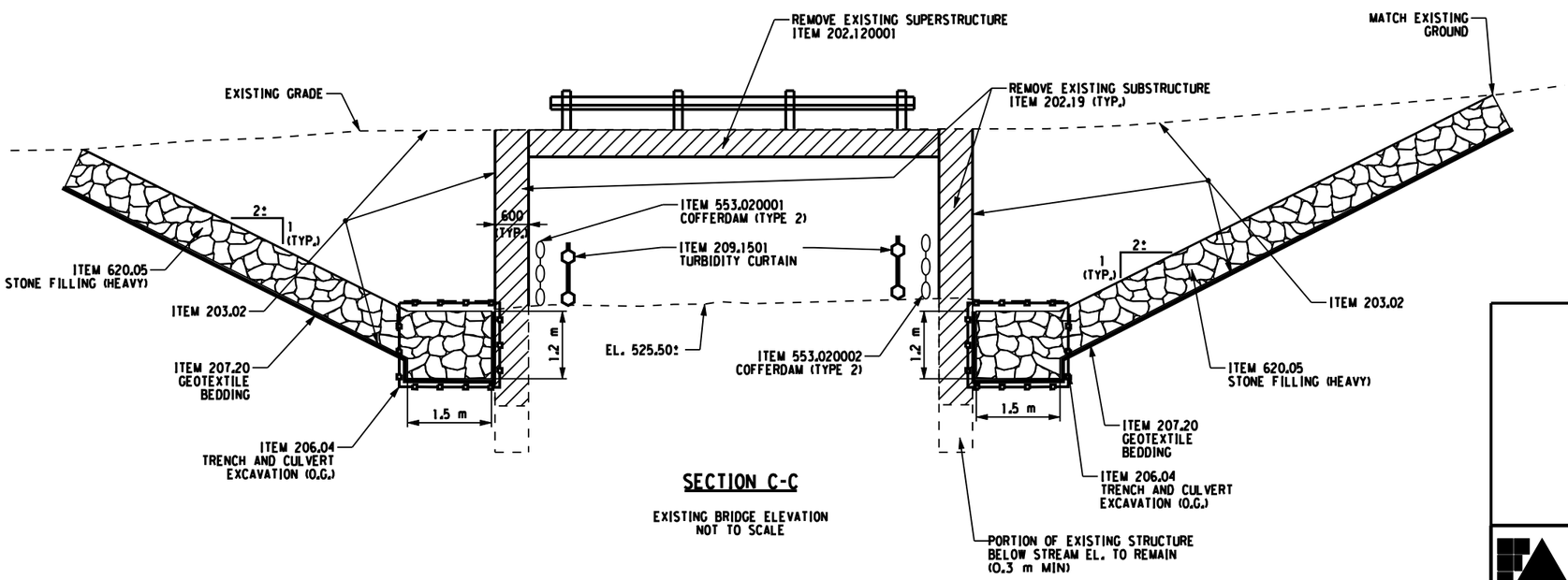


SECTION B-B

SOUTH ABUTMENT
NOT TO SCALE

NOTE:

FOR SECTION LOCATIONS AND MATERIAL LEGEND SEE DWG NO. ST-5



SECTION C-C

EXISTING BRIDGE ELEVATION
NOT TO SCALE

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

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SIGNATURE DATE

EXCAVATION SECTIONS

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
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Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.ERW.SEC.DGN	ONE	AUGUST 2011	ST-8

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY FK.MCGINNINI

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VILLAGE OF LAKE PLACID
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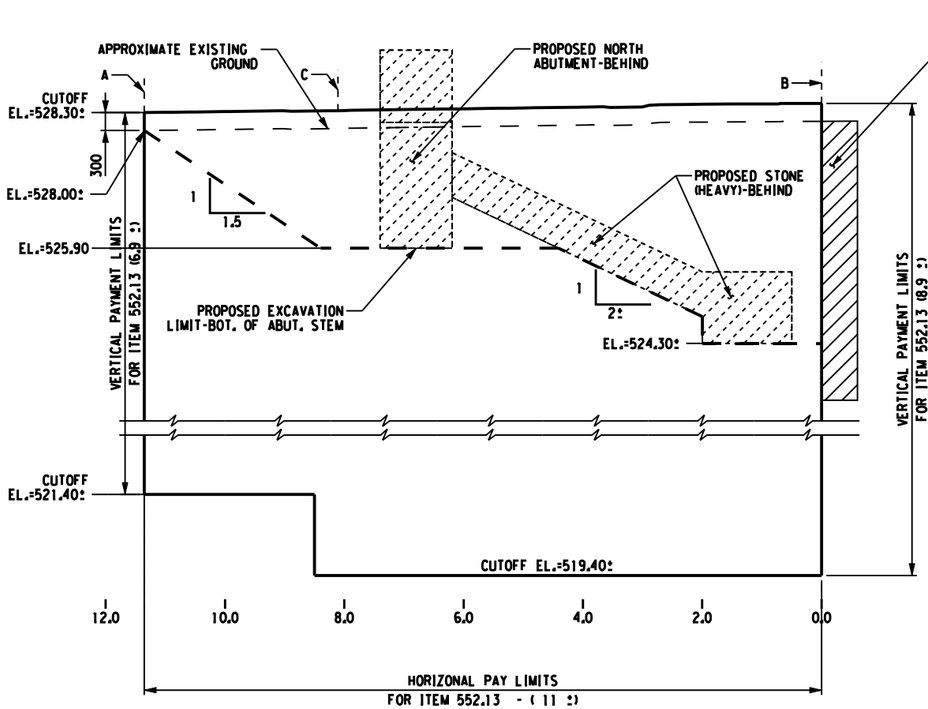
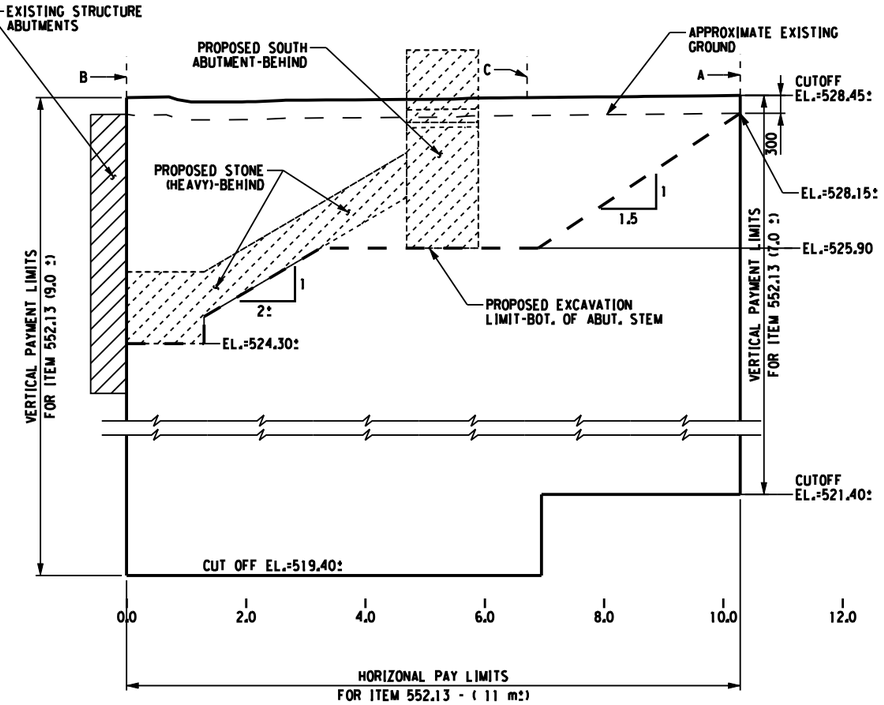


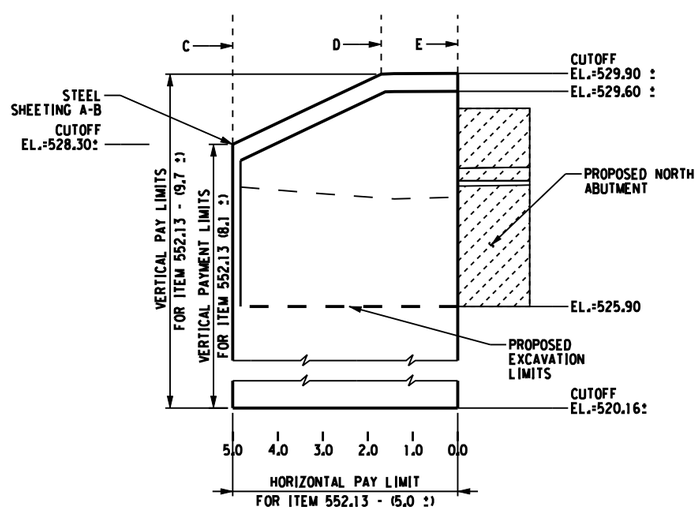
NORTH ABUTMENT - SECTION A TO B

NOT TO SCALE



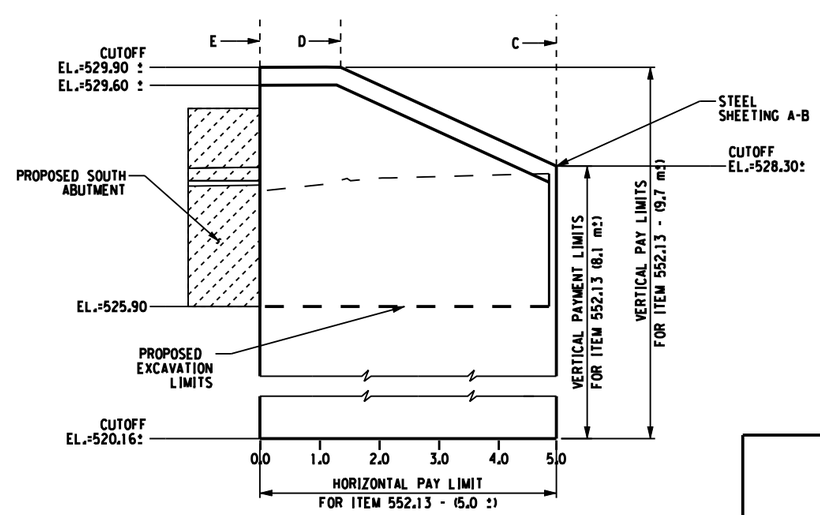
SOUTH ABUTMENT - SECTION A TO B

NOT TO SCALE



NORTH ABUTMENT - SECTION C TO E

NOT TO SCALE



SOUTH ABUTMENT - SECTION C TO E

NOT TO SCALE

SOIL PROPERTIES FOR THE SHEETING DESIGN

1. EL. 529.00 ± TO EL. 525.50 ±
   UNIT WEIGHT = 15.1kN/m³ (120#/CF)
   FRICTION ANGLE= 30°
   WALL FRICTION ANGLE = 14°

2. EL. 525.50 ± TO EL. 519.00 ±
   UNIT WEIGHT = 15.9kN/m³ (125#/CF) (SUBMERGED)
   FRICTION ANGLE= 32°
   WALL FRICTION ANGLE = 17°

RECOMMENDED CONSTRUCTION SEQUENCE

1. INSTALL A LINE OF TEMPORARY STEEL SHEETING, ITEM 552.13, ALONG THE EXISTING SHOULDER LINE FROM POINTS A TO B - APPROXIMATLY 11m LONG.
2. EXCAVATE FOR THE NEW ABUTMENTS, STREAM CHANNEL AND HEAVY STONE FILLING.
3. INSTALL THE 0.406mø PILES FOR BOTH ABUTMENTS
4. POUR ABUTMENT STEMS AS SHOWN ON THE PLANS.
5. INSTALL A LINE OF TEMPORARY STEEL SHEETING, ITEM 552.13 FROM POINTS C TO D TO E - APPROXIMATLY 4 TO 5 m LONG AT THE NORTH AND SOUTH ABUTMENTS.
6. BACKFILL ABUTMENTS TO SUBGRADE
7. ERECT THE PRESTRESSED BEAMS - ITEM 563.02.
8. POUR THE SUPERSTRUCTURE DECK - ITEM 557.0109, APPROACH SLABS - ITEM 557.2009, AND THE SHARED USE PATH - ITEM 557.30.
9. INSTALL THE BRIDGE RAILING - ITEM 568.52
10. INSTALL TEMPORARY CONCRETE BARRIER ON THE WEST SIDE OF THE STRUCTURE AND APPROACH SLABS AS SHOWN ON DWG NO. TCP-4, " WORK ZONE TRAFFIC CONTROL PLAN, STAGE II, STA 3+550+/- TO STA 3+700+/-"
11. MOVE TRAFFIC OVER TO THE NEW STRUCTURE.
12. REMOVE SHEETING LINE FROM B TO C.
13. EXCAVATE FOR N.W. & S.W. WINGWALLS AND REMAINING CHANNEL REALIGNMENT.
14. POUR BOTH WEST SIDE WINGWALLS.
15. BACKFILL TO FINISH GRADE FROM BACK OF NEW WINGWALLS AND SHEETING LINE C - D TO E.
16. REMOVE SHEETING LINE FROM A - C - D & E.
17. INSTALL TRANSITION BRIDGE RAILING - ITEM 568.70 AND BOX BEAM GUIDE RAILING - ITEM 606.10.
18. REMOVE TEMPORARY CONCRETE BARRIER.
19. CONSTRUCT THE PROPOSED FINISHED GROUND SURFACE AND ADJACENT AREAS AS INDICATED ON THE CONTRACT DOCUMENTS.

TEMPORARY STEEL SHEET PILING
ITEM 552.13 - MIN. DESIGN CRITERIA.

1. SHEET PILING FROM A TO C:
   CUTOFF EL.=521.40
   MIN. SECTION MOD = 1311 Cm³/FT
2. SHEET PILING FROM C TO B:
   CUTOFF EL.=519.40
   MIN SECTION MOD = 2285 Cm³/FT
3. SHEET PILING FROM C TO E:
   CUTOFF EL.=520.16
   MIN SECTION MOD = 3048 Cm³/FT

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

RECOMMENDED BRIDGE CONSTRUCTION SEQUENCE AND TEMPORARY STEEL SHEETING ELEVATIONS

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

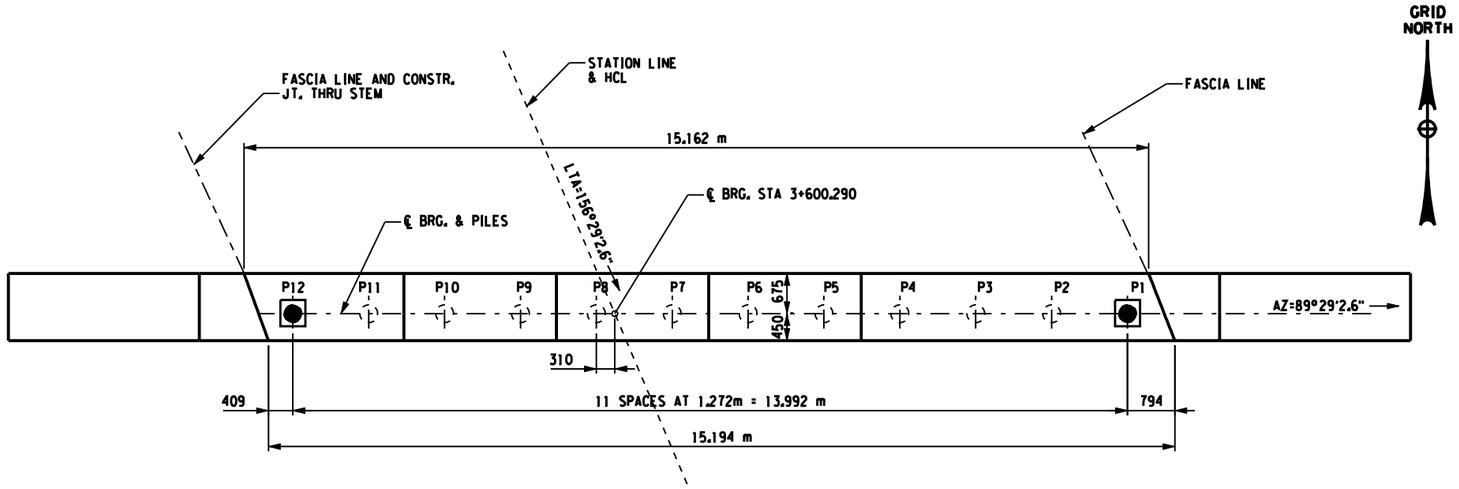
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB.ERW.SEC.1.DGN	ONE	AUGUST 2011	ST-9

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K. BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K. MASTROIANNI

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

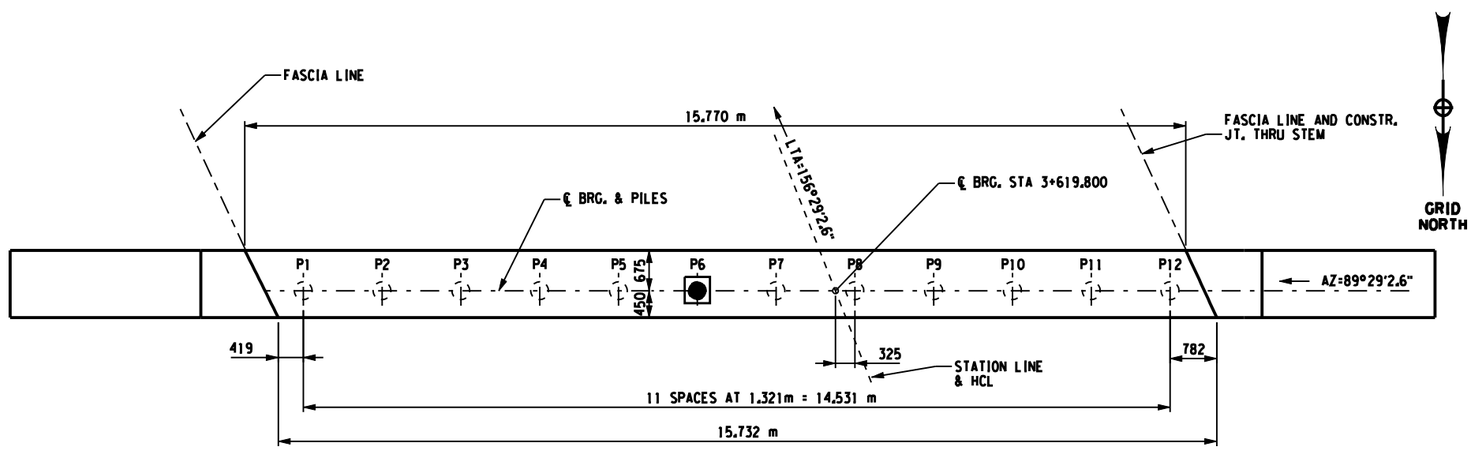
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		175	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NORTH ABUTMENT PILE LAYOUT

SCALE 1:100



SOUTH ABUTMENT PILE LAYOUT

SCALE 1:100

ACTUAL PILE LENGTH TABLE

SOUTH ABUTMENT		NORTH ABUTMENT	
PILE NO.	LENGTH	PILE NO.	LENGTH
P1		P1	
P2		P2	
P3		P3	
P4		P4	
P5		P5	
P6		P6	
P7		P7	
P8		P8	
P9		P9	
P10		P10	
P11		P11	
P12		P12	

NOTES:

1. THE 406 mm O.D. CAST-IN-PLACE CONCRETE PILES SHALL BE DESIGNED TO SUPPORT A MAXIMUM BEARING LOAD OF 768KN (173K) PER PILE.
2. ALL REINFORCEMENT SHALL BE EPOXY COATED.
3. AFTER COMPLETION OF THE PILE INSTALLATION, THE ENGINEER WILL COMPLETE THE "ACTUAL PILE LENGTH" TABLE FOR INCLUSION IN THE AS-BUILT PLANS.
4. ALL REINFORCEMENT AND CONCRETE REQUIRED SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 551.11.
5. SEE DWG ST-33 FOR PILE STEM REINFORCEMENT
6. THE ESTIMATED PILE CUT-OFF EL. = 515.8+/-

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

PILE LEGEND AND NOTES:

- INDICATES 406 O.D. CAST-IN-PLACE CONCRETE PILES. ITEM 551.11
- INDICATES DYNAMIC PILE TEST. ITEM 551.14

AS BUILT REVISIONS

SIGNATURE DATE

NORTH AND SOUTH ABUTMENT PILE LAYOUT

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

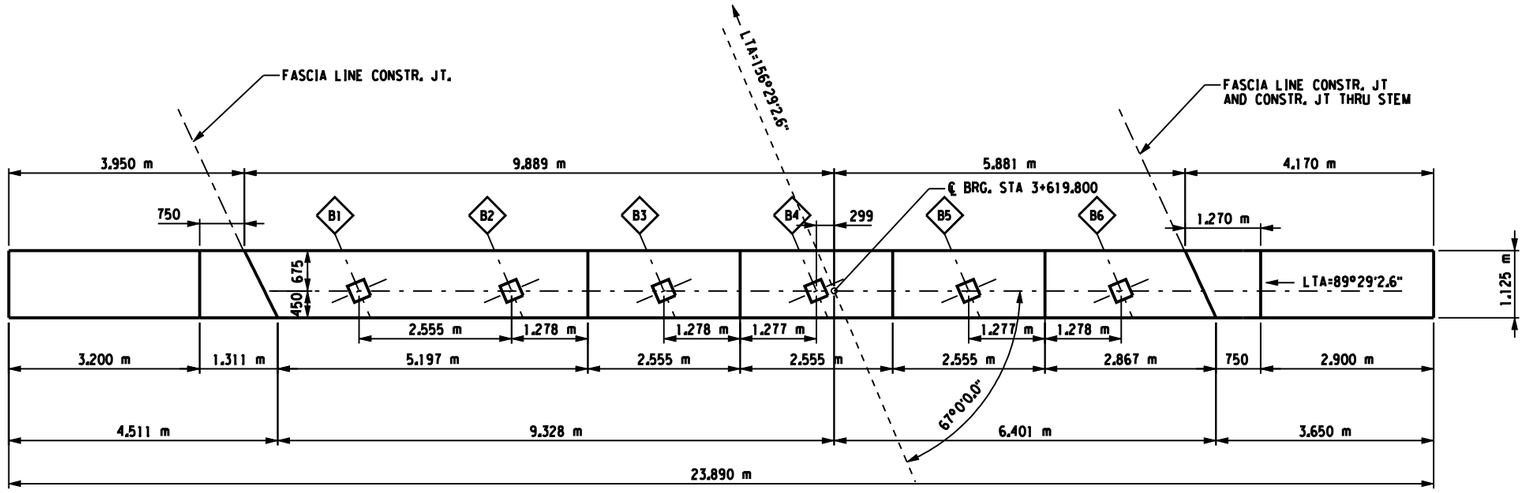
DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB_ABT_PIL.DGN	ONE	AUGUST 2011	ST-10

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		176	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SOUTH ABUTMENT PLAN LAYOUT

SCALE 1:50

GRID NORTH

NOTES:

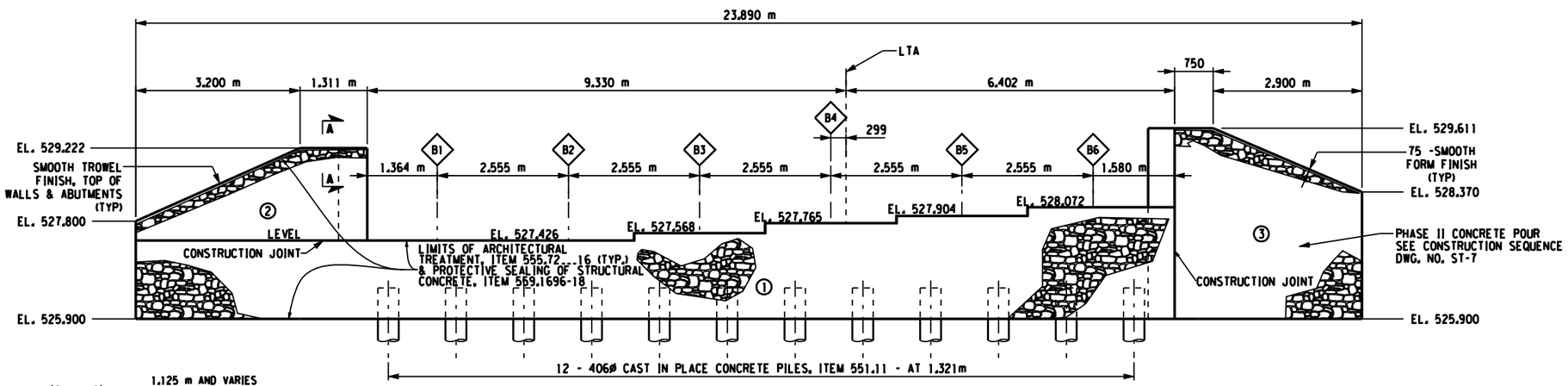
1. THE ARCHITECTURAL TREATMENT FORMWORK SHALL BE ADIRONDACK DRYSTACK, CRS PATTERN 12979 OR AN APPROVED EQUAL.
2. FOR PILE LAYOUT, SEE DWG. ST-8.
3. FOR REINFORCEMENT DETAILS, SEE DWG. ST-10 THRU ST-12.
4. FOR CHAMFER DETAILS, SEE DWG. ST-33.
5. FOR WATERSTOP DETAILS, SEE DWG. ST-33.
6. FOR BEARING DETAILS, SEE DWG. ST-22.

LEGEND:

(#) INDICATES CONCRETE PLACEMENT NUMBER

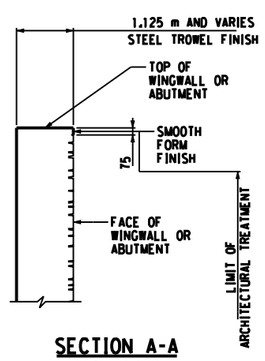
(##) INDICATES PRESTRESSED CONCRETE BOX BEAM NUMBER

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
1	39.0 m^3	555.09
2	6.2 m^3	555.09
3	13.9 m^3	555.09



SOUTH ABUTMENT ELEVATION LAYOUT

SCALE 1:50



SECTION A-A

SCALE 1:100

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SOUTH ABUTMENT PLAN & ELEVATION

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

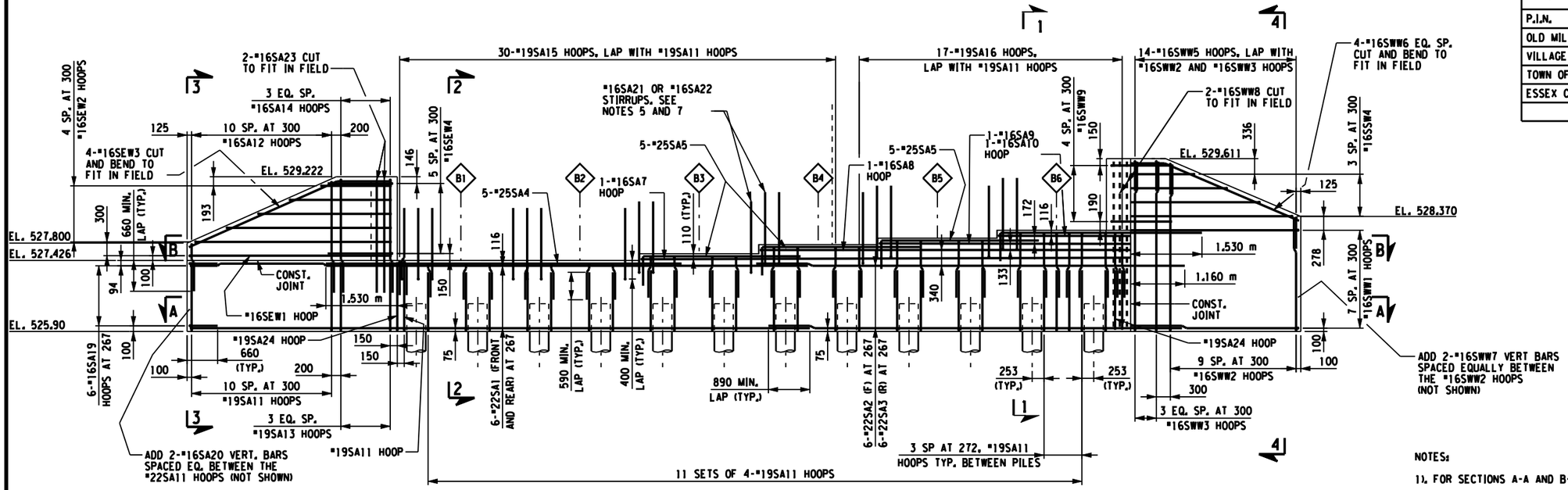
DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB_ABT_PLN_SOUTH.DGN	ONE	AUGUST 2011	ST-11

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		177	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SOUTH ABUTMENT REINFORCEMENT ELEVATION

SCALE 1:50

NOTES:

1). FOR SECTIONS A-A AND B-B, SEE DWG. NO. ST-11.

2). CONCRETE COVER (MIN.) : 100 - ADJACENT TO ARCHITECTURAL TREATMENT ON FACES OF ABUTMENTS AND WINGWALLS.

3). CONCRETE COVER (MIN.) : 50 - ALL OTHER SURFACES UNLESS OTHERWISE INDICATED ON PLANS.

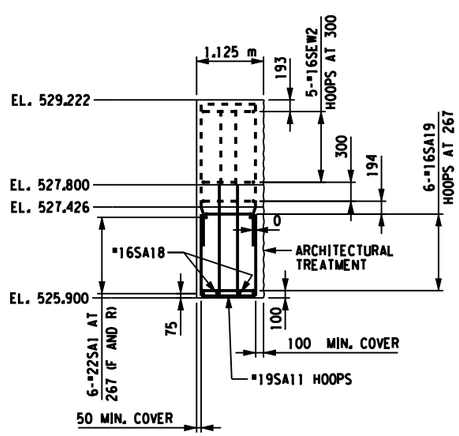
4). FOR ELEVATION AND PLAN SEE DWG. NO. ST-9.

5). THE "16SA21, "16SA22 AND "16SA25 STIRRUPS - LAP TO "16SE17 AND "16SE18 HOOPS FROM SUPERSTRUCTURE SLAB. FOR SPACING SEE SECTION B-B, DWG. NO. 11.

6). FOR SECTIONS 1-1 AND 2-2 SEE DWG NO. ST-12

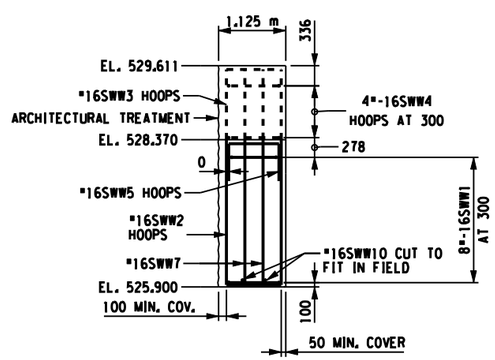
7). ADJUST IF NECESSARY, THE "16SA21 AND "16SA22 STIRRUPS TO MAINTAIN MINIMUM COVER AT THE PEDESTAL STEPS.

8). THE "16SA25 STRRRUPS NOT SHOWN. SEE SECTION B-B ON DWG NO. ST-11 FOR LOCATION.



SECTION 3-3

NOT TO SCALE



SECTION 4-4

NOT TO SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SOUTH ABUTMENT REINFORCEMENT ELEVATION AND SECTIONS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

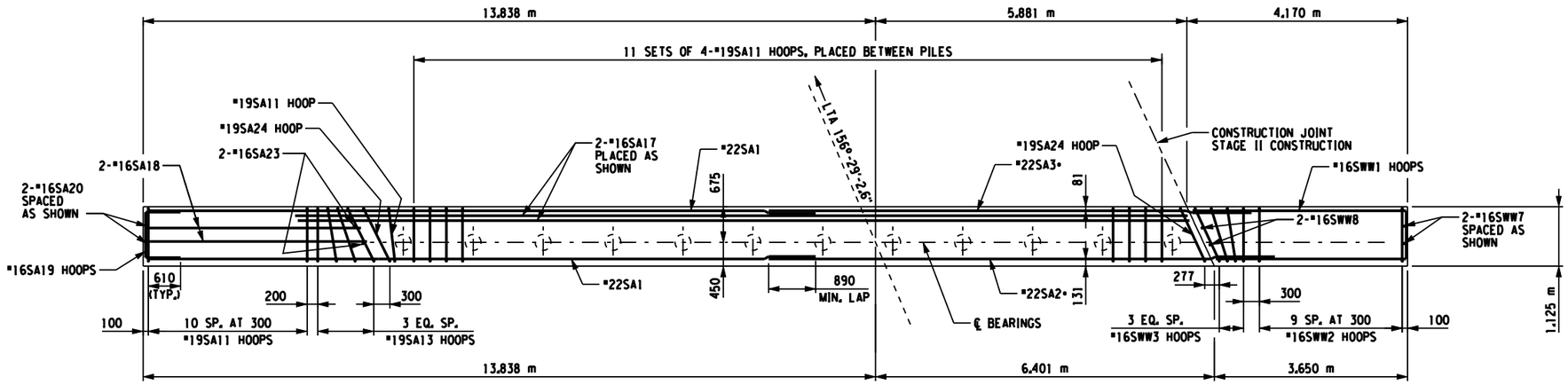
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.BRD.ABT.SOUTH.REINF	ONE	AUGUST 2011	ST-12

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		178	205

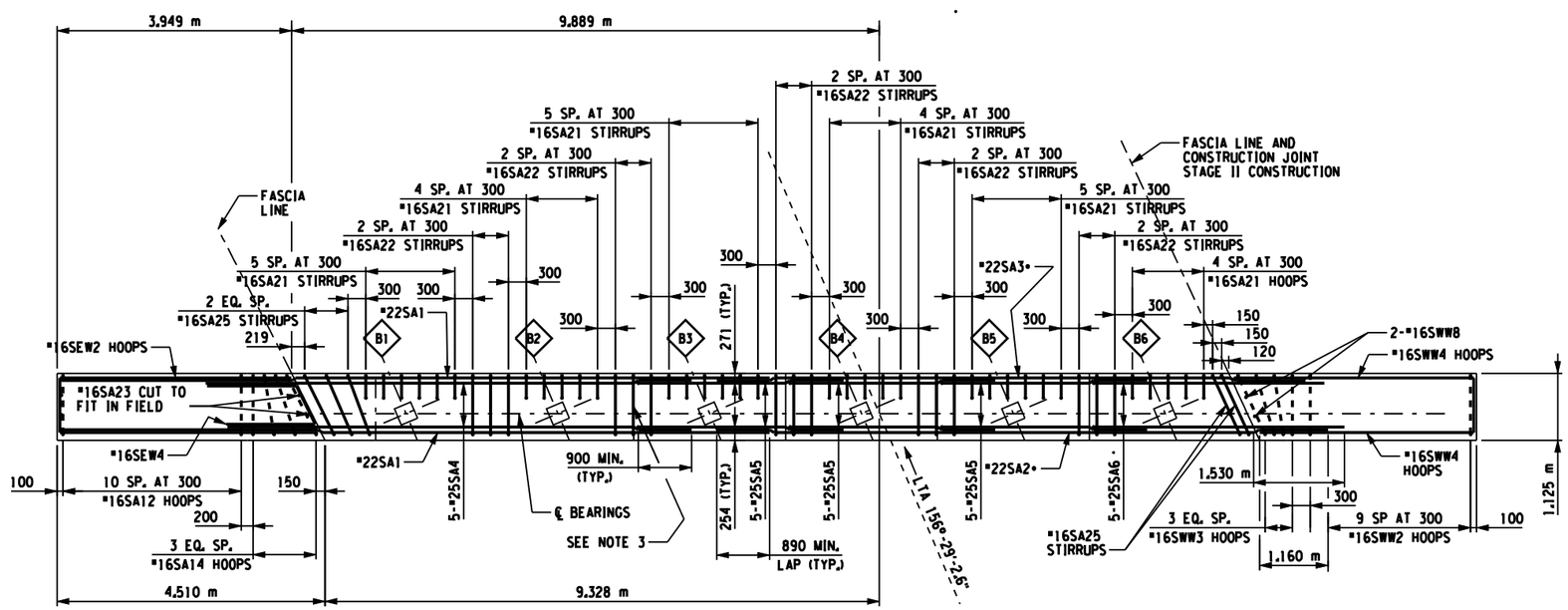
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SECTION A-A

SCALE 1:50

• THE CONTRACTOR WILL BE PERMITTED TO SUBSTITUTE APPROVED EPOXY COATED OR GALVANIZED THREADED REBAR INSERTS FOR THESE BARS AT THE STAGE II CONSTRUCTION JOINT IN LIEU OF THE CONTINUOUS BARS SHOWN THE PLANS.



SECTION B-B

SCALE 1:50

NOTES:

1. THE #16SA7 HOOP THRU #16SA10 HOOP IN TOP OF BRIDGE SEAT UNDER BEAMS B3 THRU B6 NOT SHOWN.
2. THE #16SWW9 BARS NOT SHOWN.
3. ADJUST IF NECESSARY, THE #16SA21 AND #16SA22 STIRRUPS TO MAINTAIN MIN. COVER AT THE PEDESTAL STEPS (TYP.)

NOTES:

1). FOR LOCATION OF SECTIONS SEE DWG. NO. ST-10.

2). CONCRETE COVER (MIN.) : 100 - ADJACENT TO ARCHITECTURAL TREATMENT ON FACES OF ABUTMENTS AND WINGWALLS.

3). CONCRETE COVER (MIN.) : 50 - ALL OTHER SURFACES UNLESS OTHERWISE INDICATED ON PLANS.

4). FOR ELEVATION AND PLAN SEE DWG. NO. ST-9.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SOUTH ABUTMENT REINFORCEMENT SECTIONS (DWG NO. 1 OF 2)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

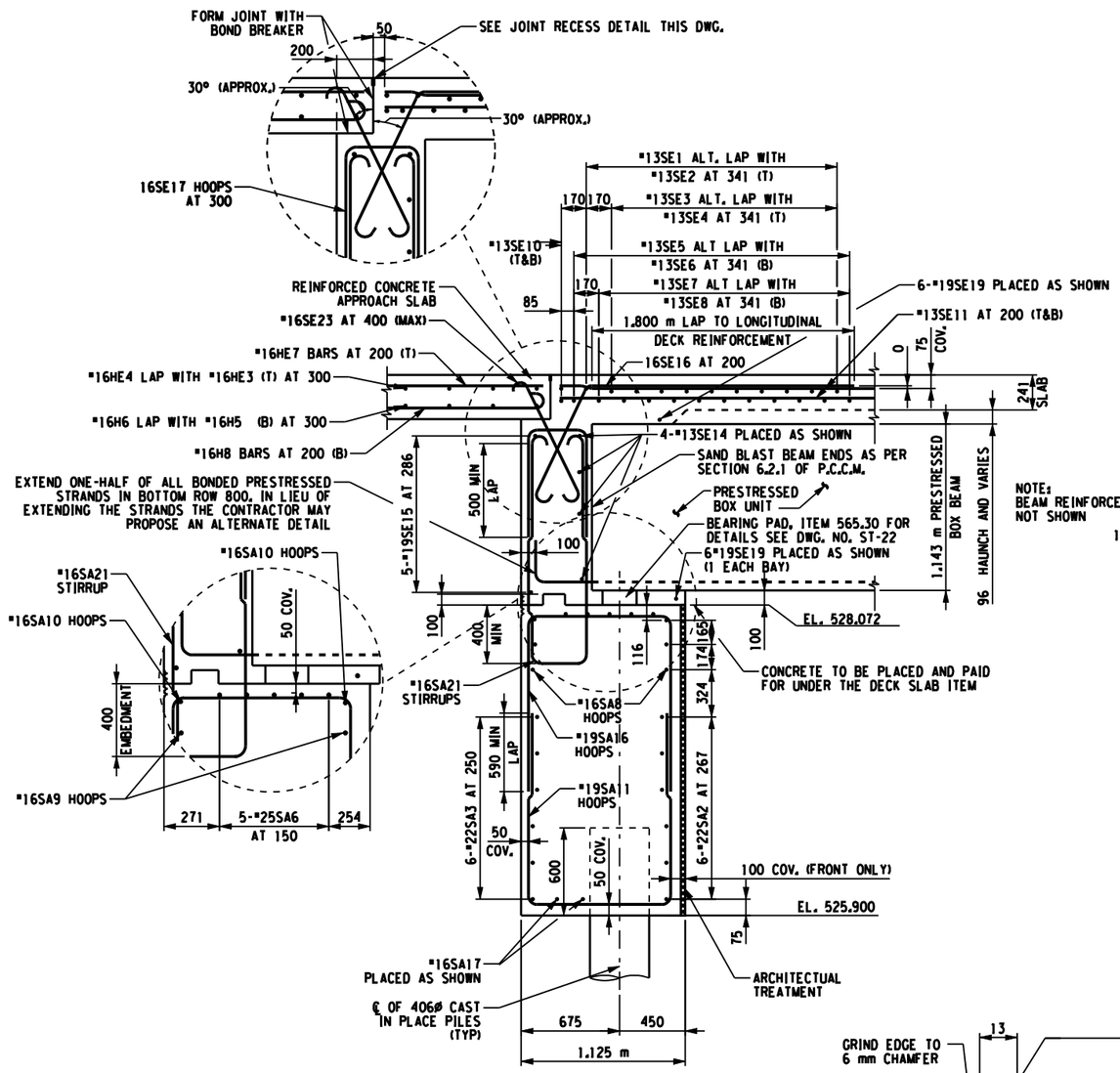
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.BRD.ABT.SOUTH.REINF	ONE	AUGUST 2011	ST-13

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

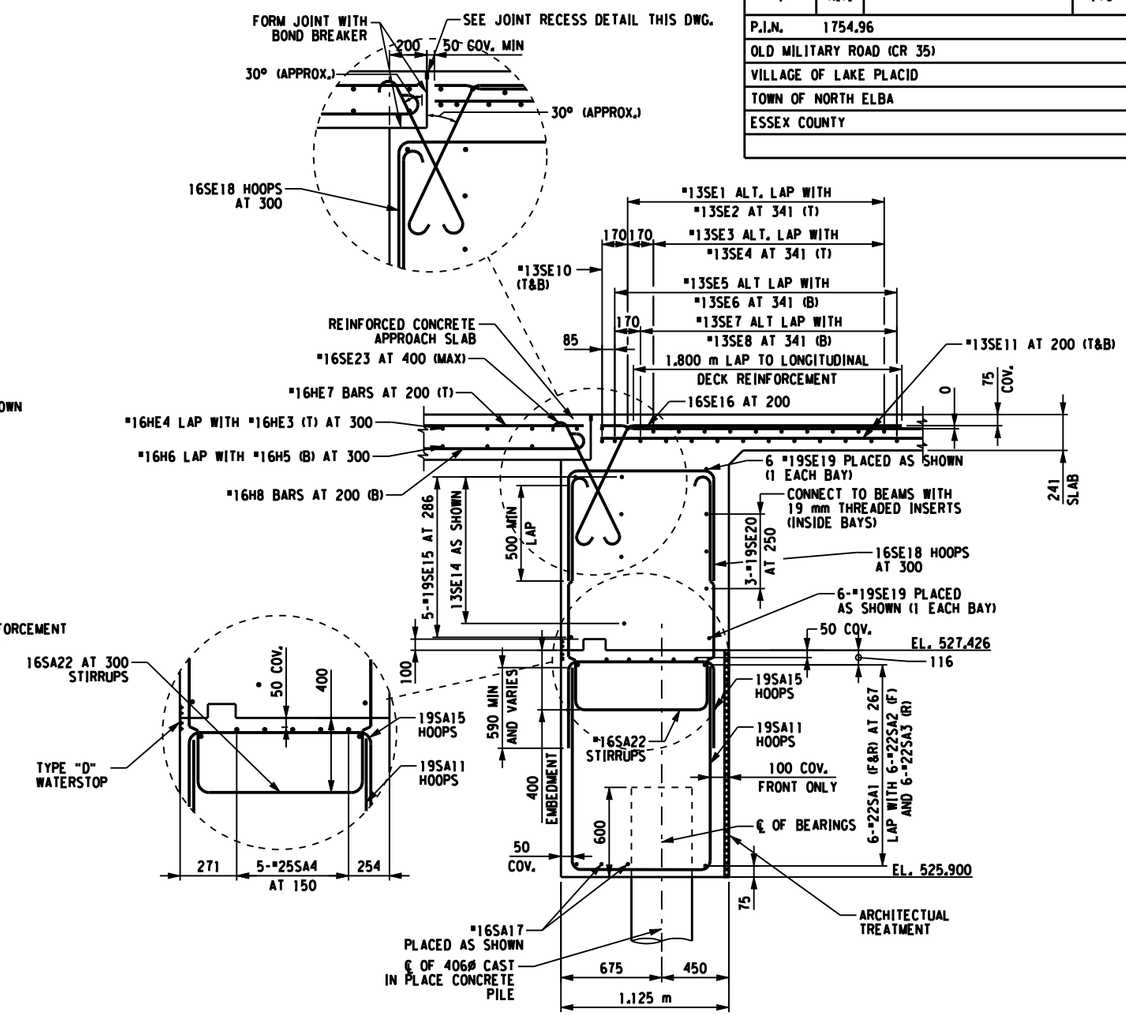
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		179	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

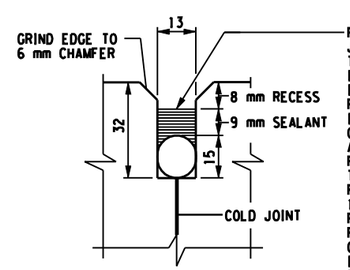


SECTION 1-1
NOT TO SCALE



SECTION 2-2
NOT TO SCALE

NOTE:
FOR SECTION LOCATION SEE DWG NO. ST-10.



FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, LIQUID SEALANT, FROM THE DEPARTMENT'S APPROVED LIST. IF THE RECESS IS SAW CUT, WATER BLAST IMMEDIATELY FOLLOWING CUTTING TO REMOVE ANY RESIDUAL SLURRY BEFORE IT DRIES. CLEAN THE VERTICAL FACES OF THE RECESS BY ABRASIVE BLAST, AND AIR BLOW THE RESIDUE FROM THE RECESS. PRIME THE VERTICAL FACES WITH THE MANUFACTURER'S RECOMMENDED PRIMER, AND ALLOW TO DRY. PLACE A 15 mm DIA. SOFT CLOSED CELL BACKER ROD IN THE BOTTOM OF THE RECESS. POUR THE SILICONE SEALANT TO A DEPTH OF APPROX. 9 mm. PAYMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB.

JOINT RECESS DETAIL
NOT TO SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SOUTH ABUTMENT
REINFORCEMENT SECTIONS
(DWG NO. 2 OF 2)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

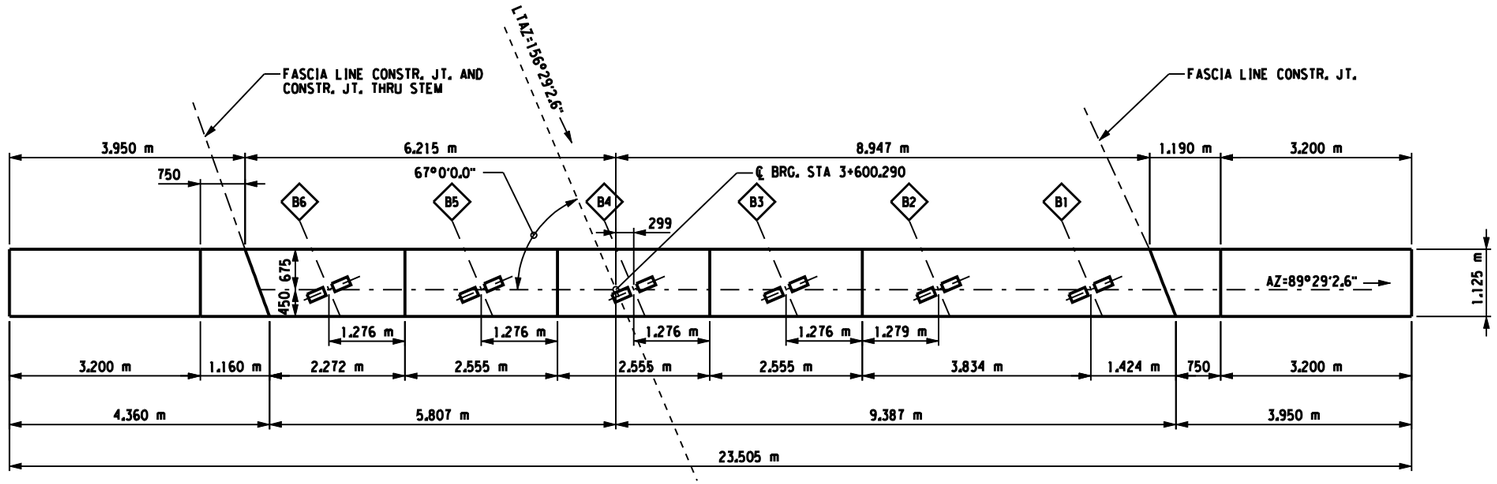
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CBP.ABT.DTL.SOUTH.DGN	ONE	AUGUST 2011	ST-14

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

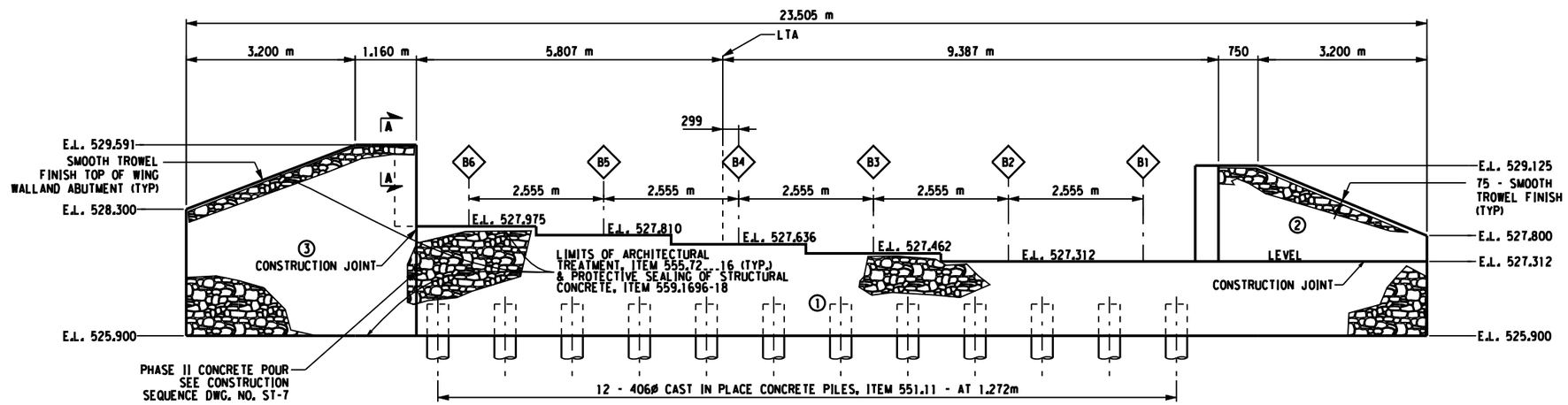
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		180	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



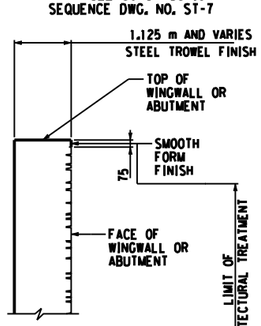
NORTH ABUTMENT PLAN LAYOUT

SCALE 1:50



NORTH ABUTMENT ELEVATION LAYOUT

SCALE 1:50



SECTION A-A

SCALE 1:100

GRID NORTH

NOTES:

1. THE ARCHITECTURAL TREATMENT FORMWORK SHALL BE ADIRONDACK DRYSTACK, CRS PATTERN 12979 OR AN APPROVED EQUAL.
2. FOR PILE LAYOUT, SEE DWG. ST-8.
3. FOR REINFORCEMENT DETAILS, SEE DWGS. ST-14 THRU ST-16.
4. FOR CHAMFER DETAILS, SEE DWG. ST-33
5. FOR WATERSTOP DETAILS, SEE DWG. ST-33.
6. FOR BEARING DETAILS, SEE DWG. ST-22.

LEGEND:

(#) INDICATES CONCRETE PLACEMENT NUMBER

◇## INDICATES PRESTRESSED CONCRETE BOX BEAM NUMBER

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
1	35.4 m^3	555.09
2	6.2 m^3	555.09
3	19.1 m^3	555.09

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

NORTH ABUTMENT PLAN & ELEVATION

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

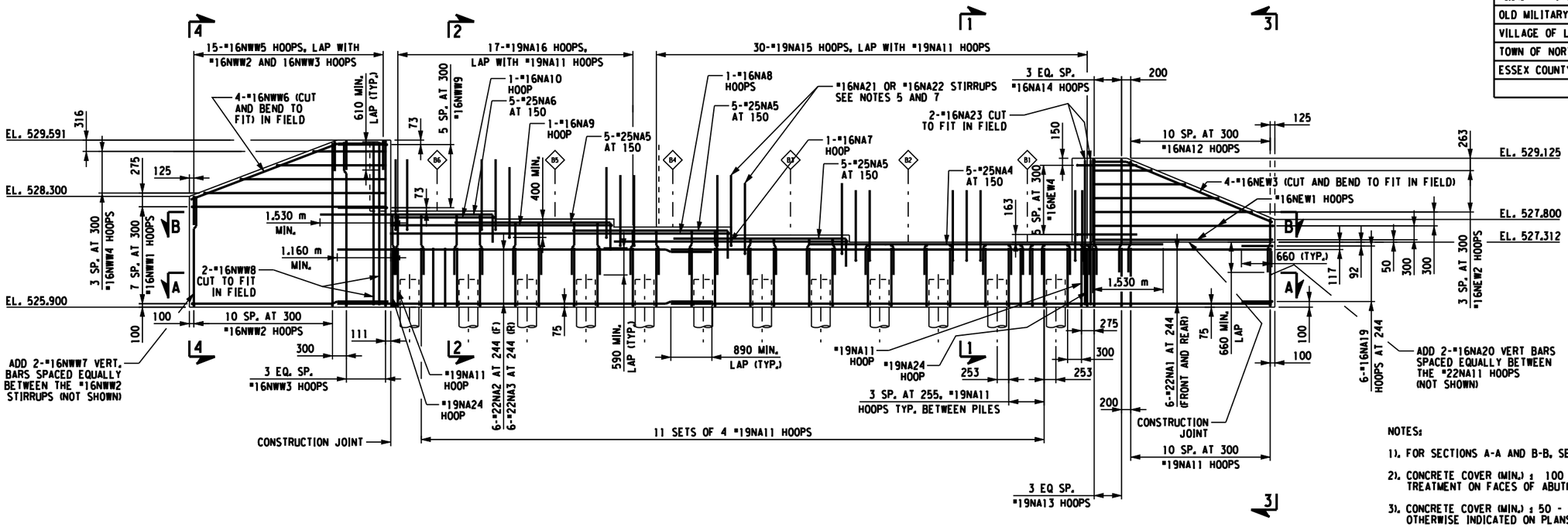
DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB.ABT.PLN.NORTH	ONE	AUGUST 2011	ST-15

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		181	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NORTH ABUTMENT REINFORCEMENT ELEVATION

SCALE 1:50

NOTES:

1). FOR SECTIONS A-A AND B-B, SEE DWG. NO. ST-15

2). CONCRETE COVER (MIN.) : 100 - ADJACENT TO ARCHITECTURAL TREATMENT ON FACES OF ABUTMENTS AND WINGWALLS.

3). CONCRETE COVER (MIN.) : 50 - ALL OTHER SURFACES UNLESS OTHERWISE INDICATED ON PLANS

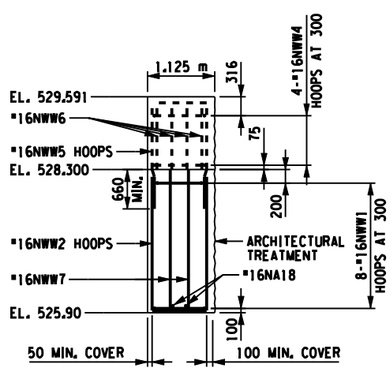
4). FOR ELEVATION AND PLAN SEE DWG. NO. ST-13

5). THE #16NA21, #16NA22 AND #16NA25 STIRRUPS - LAP TO #16SE17 AND #16SE18 HOOPS FROM SUPERSTRUCTURE SLAB. FOR SPACING SEE SECTION B-B, DWG. NO. 15

6). FOR SECTIONS 1-1 AND 2-2 SEE DWG NO. ST-16

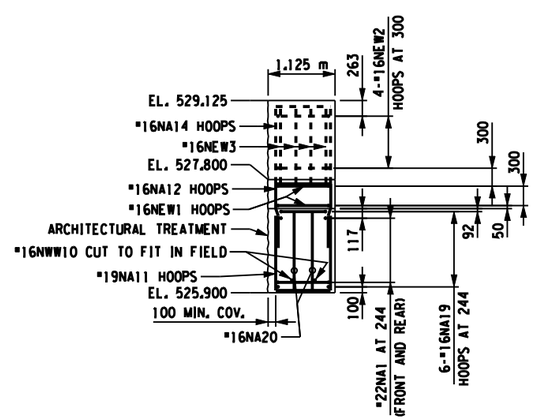
7). ADJUST AS NECESSARY, THE #16NA21 AND #16NA22 STIRRUP TO MAINTAIN MINIMUM COVER AT THE PEDESTAL STEPS.

8). THE #16NA25 STIRRUPS NOT SHOWN, SEE SECTION B-B ON DWG NO. ST-15 FOR LOCATION.



SECTION 4-4

SCALE 1:50



SECTION 3-3

SCALE 1:50

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

NORTH ABUTMENT REINFORCEMENT ELEVATION AND SECTIONS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

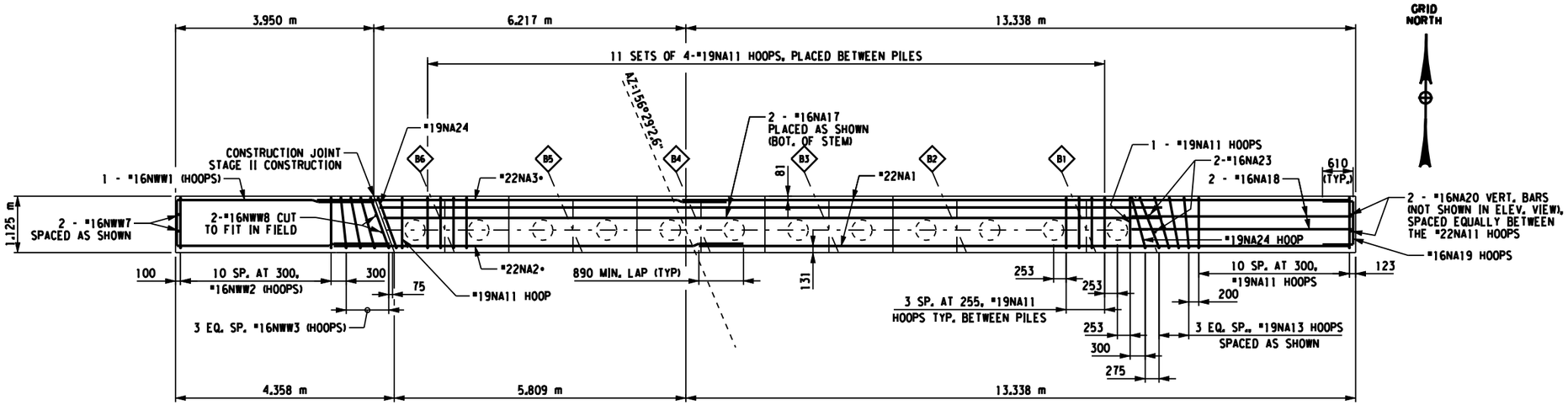
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.BRD.ABT.NORTH.REINF	ONE	AUGUST 2011	ST-16

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		182	205

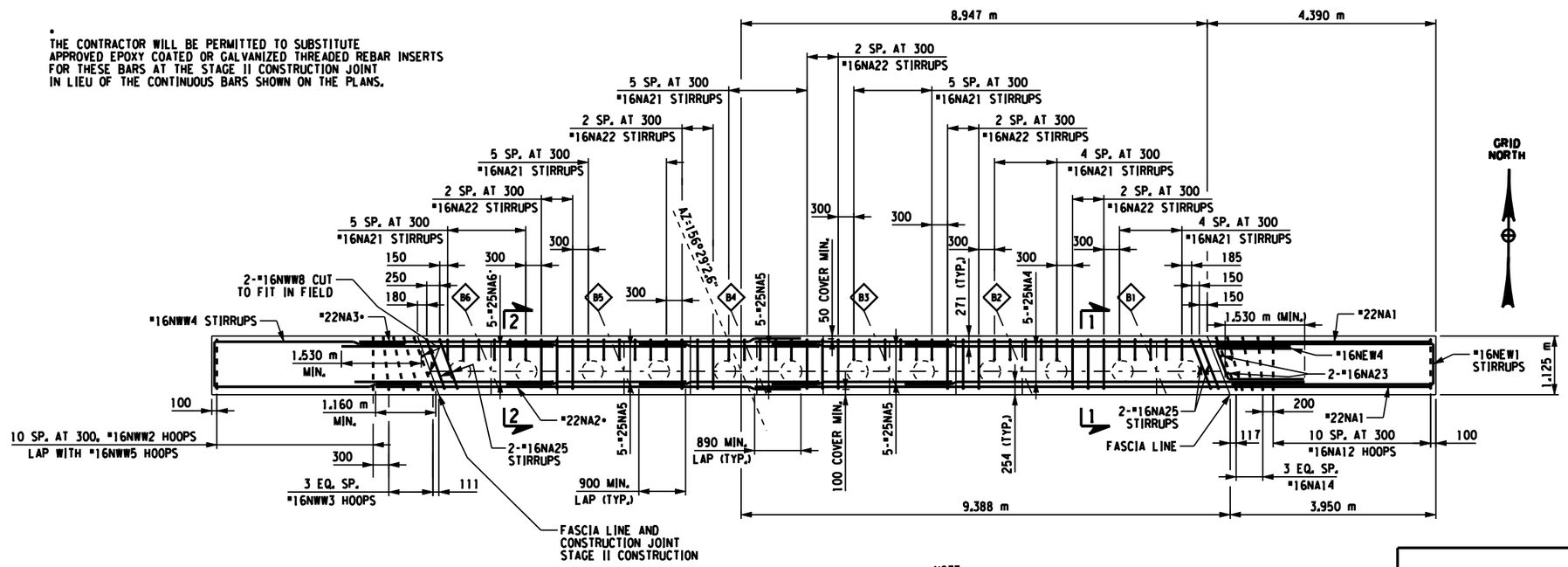
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SECTION A-A

SCALE 1:50

• THE CONTRACTOR WILL BE PERMITTED TO SUBSTITUTE APPROVED EPOXY COATED OR GALVANIZED THREADED REBAR INSERTS FOR THESE BARS AT THE STAGE II CONSTRUCTION JOINT IN LIEU OF THE CONTINUOUS BARS SHOWN ON THE PLANS.



NOTES:

1). FOR LOCATION OF SECTIONS SEE DWG. NO. ST-14

2). CONCRETE COVER (MIN.) : 100 - ADJACENT TO ARCHITECTURAL TREATMENT ON FACES OF ABUTMENTS AND WINGWALLS.

3). CONCRETE COVER (MIN.) : 50 - ALL OTHER SURFACES UNLESS OTHERWISE INDICATED ON PLANS

4). FOR ELEVATION AND PLAN SEE DWG. NO. ST-13

NOTE:

1). THE #16NA7 HOOP THRU #16NA10 HOOP IN TOP OF BRIDGE SEAT UNDER BEAMS B3 THRU B6 NOT SHOWN.

2). THE #16NWW9 BARS NOT SHOWN.

3). ADJUST AS NECESSARY, THE #16NA21 AND #16NA22 STIRRUPS TO MAINTAIN MINIMUM COVER AT THE PEDESTAL STEP.

SECTION B-B

SCALE 1:50

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

NORTH ABUTMENT REINFORCEMENT SECTIONS (DWG NO. 1 OF 2)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

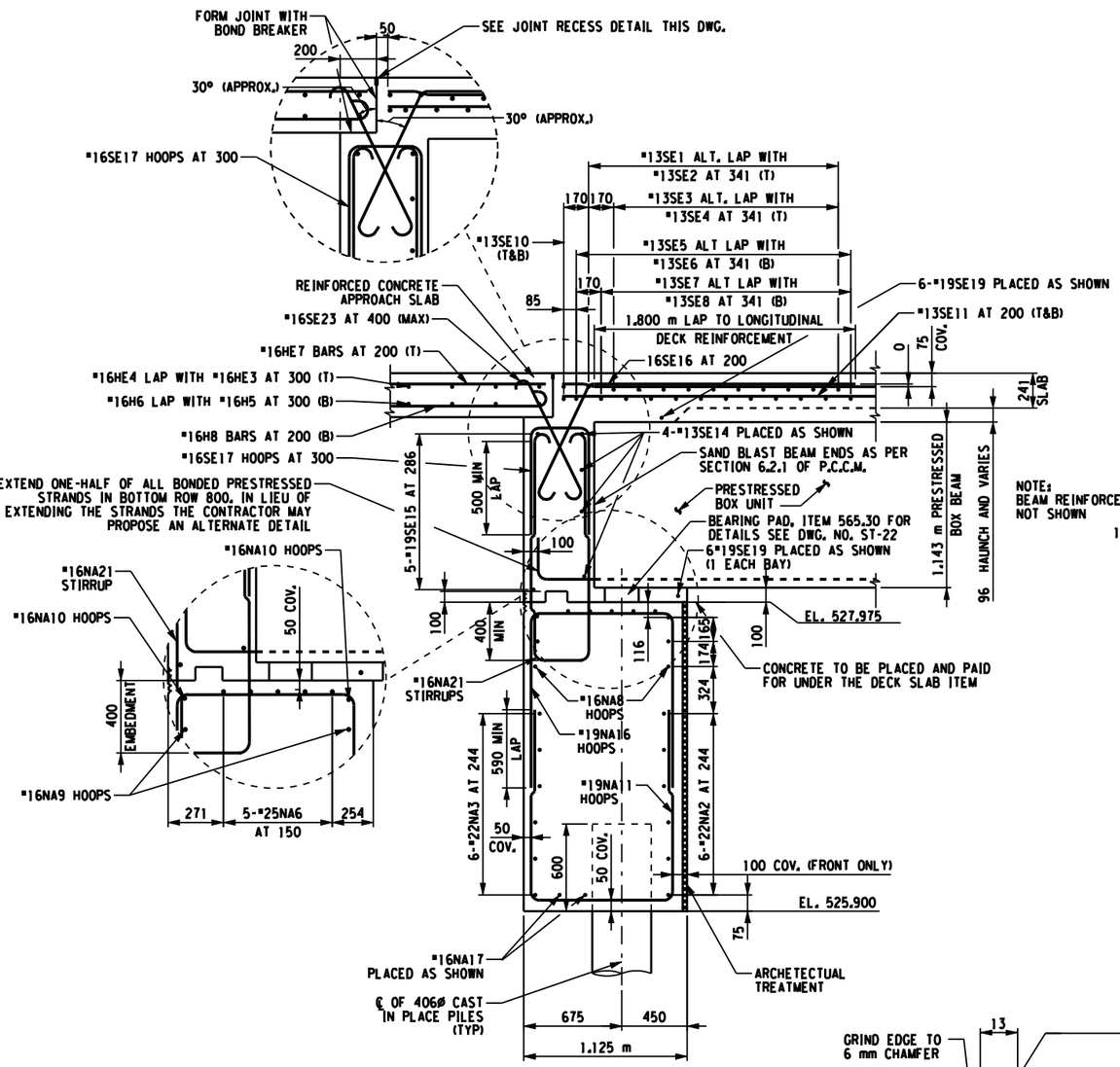
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.BRD.ABT.NORTH.REINF	ONE	AUGUST 2011	ST-17

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

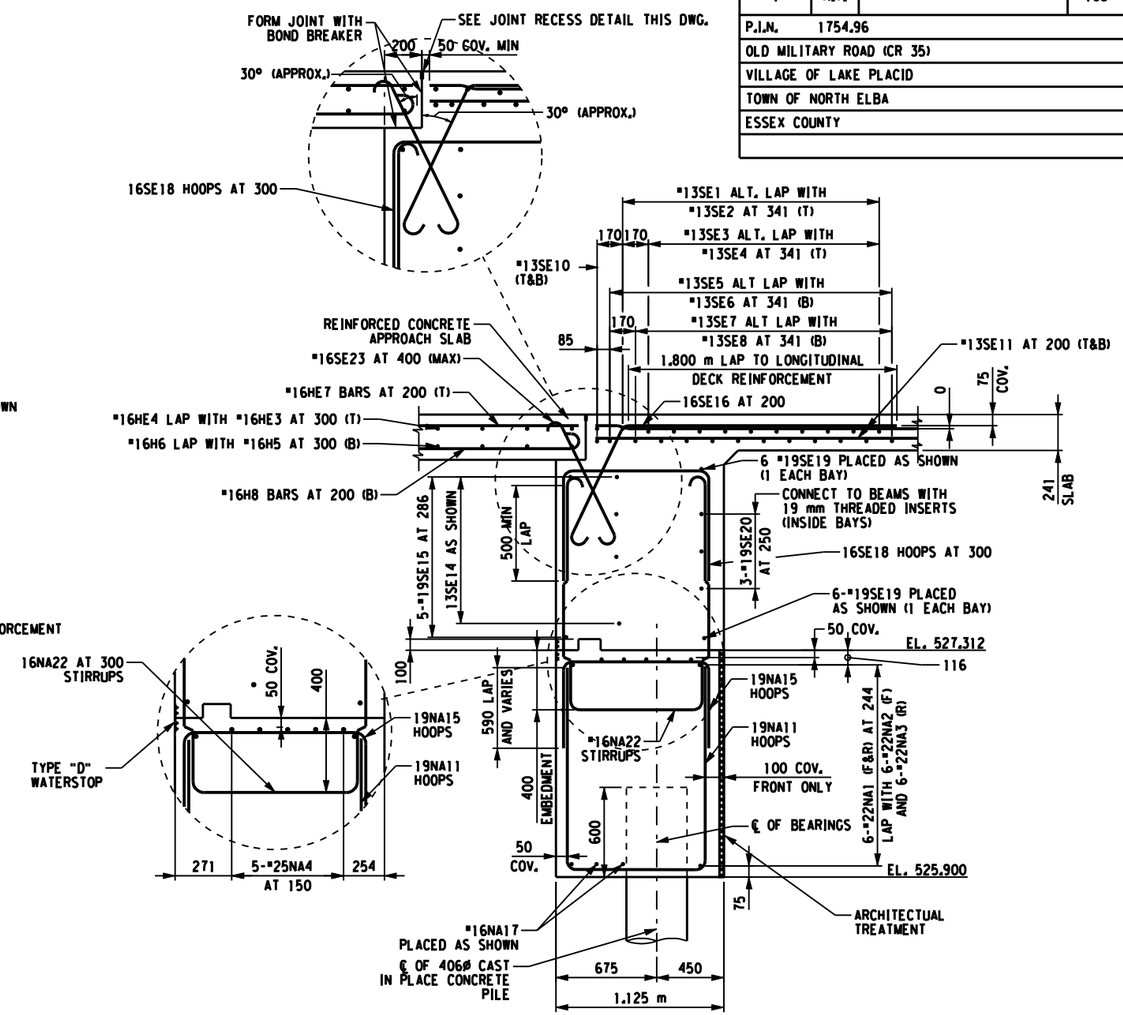
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		183	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

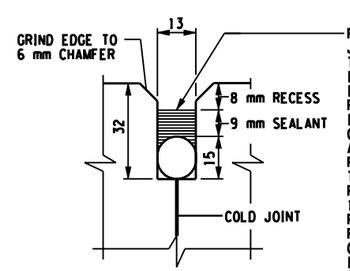


SECTION 2-2
NOT TO SCALE



SECTION 1-1
NOT TO SCALE

NOTE:
FOR SECTION LOCATION SEE DWG NO. ST-14.



JOINT RECESS DETAIL
NOT TO SCALE

FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, LIQUID SEALANT, FROM THE DEPARTMENT'S APPROVED LIST. IF THE RECESS IS SAW CUT, WATER BLAST IMMEDIATELY FOLLOWING CUTTING TO REMOVE ANY RESIDUAL SLURRY BEFORE IT DRIES. CLEAN THE VERTICAL FACES OF THE RECESS BY ABRASIVE BLAST, AND AIR BLOW THE RESIDUE FROM THE RECESS. PRIME THE VERTICAL FACES WITH THE MANUFACTURER'S RECOMMENDED PRIMER, AND ALLOW TO DRY. PLACE A 15 mm DIA. SOFT CLOSED CELL BACKER ROD IN THE BOTTOM OF THE RECESS. POUR THE SILICONE SEALANT TO A DEPTH OF APPROX. 9 mm. PAYMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

NORTH ABUTMENT
REINFORCEMENT SECTIONS
(DWG NO. 2 OF 2)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

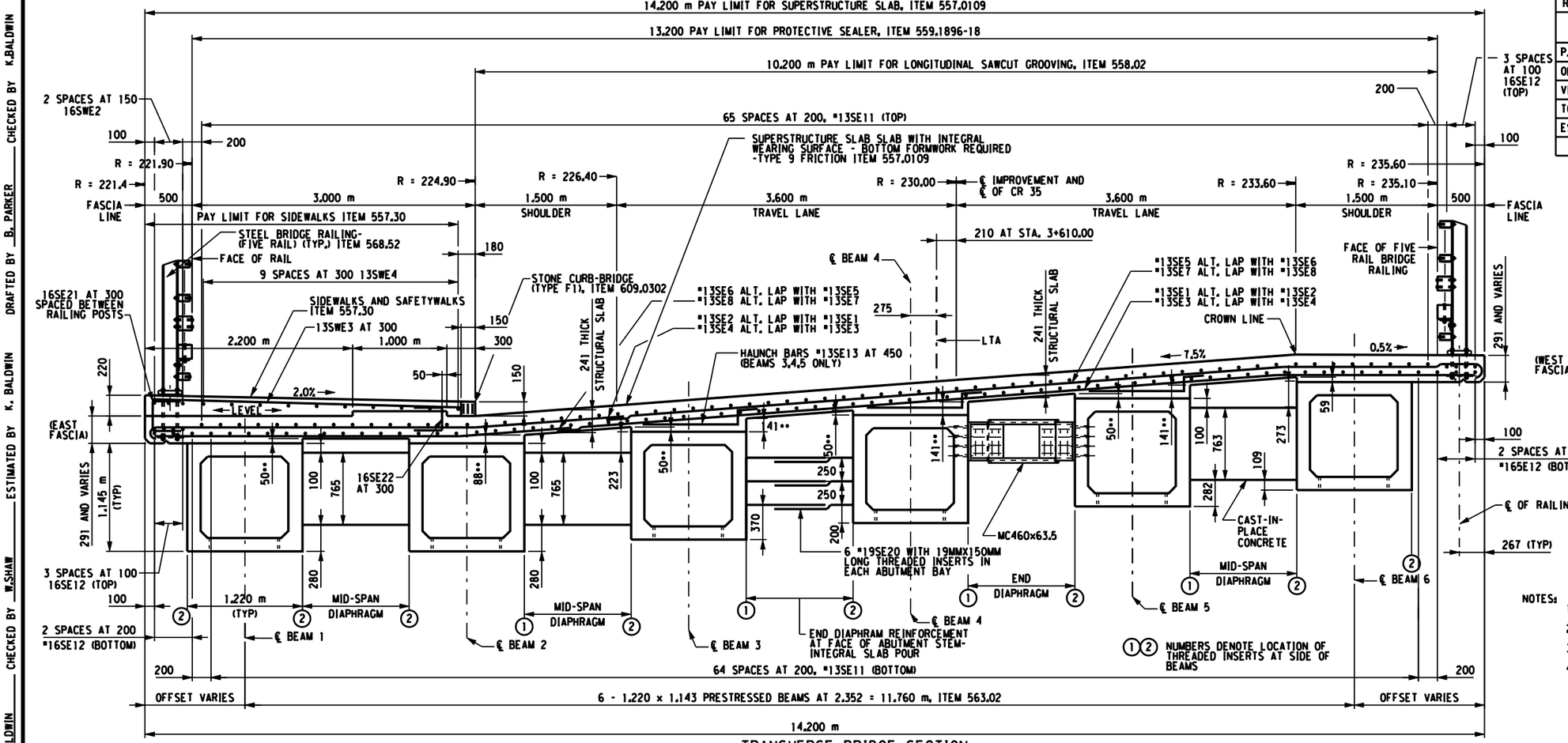
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CBP_ABT_DTL_NORTH	ONE	AUGUST 2011	ST-18

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

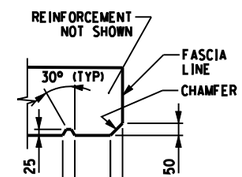
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		184	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



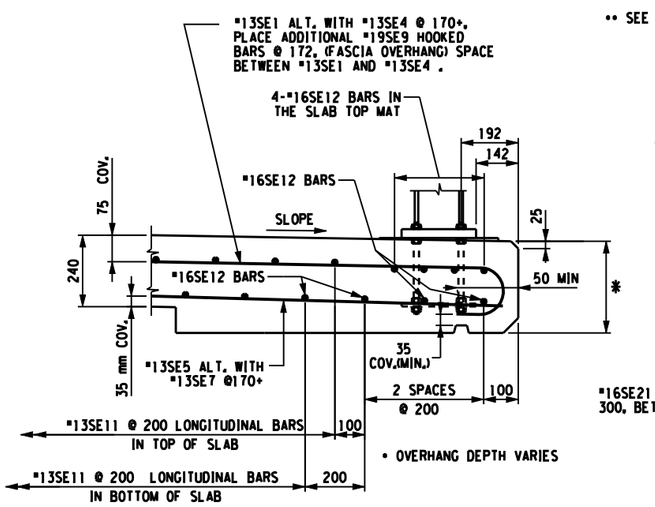
TRANSVERSE BRIDGE SECTION
NOT TO SCALE



DRIP GROOVE DETAIL

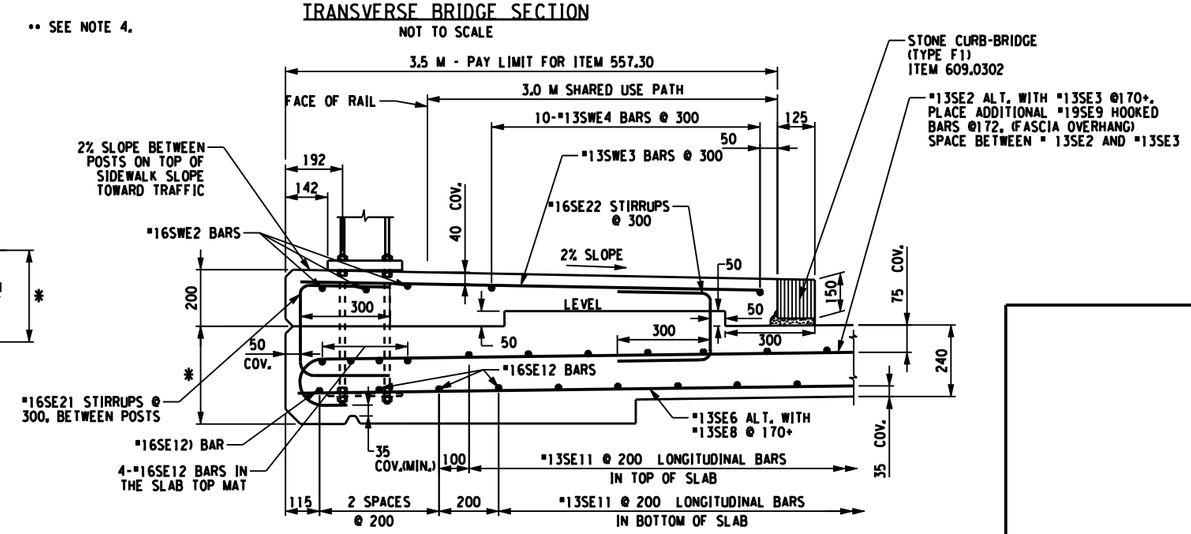
NOTES:

1). FOR DIAPHRAGM DETAILS SEE DWG. NO. ST-21 & ST-22.
2). FOR OFFSET TABLES SEE DWG. NO. ST-23.
3). FOR RAILING DETAILS SEE DWG. NO. ST-27 TO ST-32.
4). THE HAUNCH DIMENSION SHOWN ARE THEORETICAL VALUES. THE ACTUAL HAUNCH DIMENSIONS WILL BE DETERMINED IN THE FIELD. THE MINIMUM HAUNCH DIMENSION SHALL BE 50.



BRIDGE RAILING WITH
WEST FASCIA REINFORCEMENT
NOT TO SCALE

•• SEE NOTE 4.



BRIDGE RAILING WITH
EAST FASCIA REINFORCEMENT
NOT TO SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

TRANSVERSE BRIDGE SECTION

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

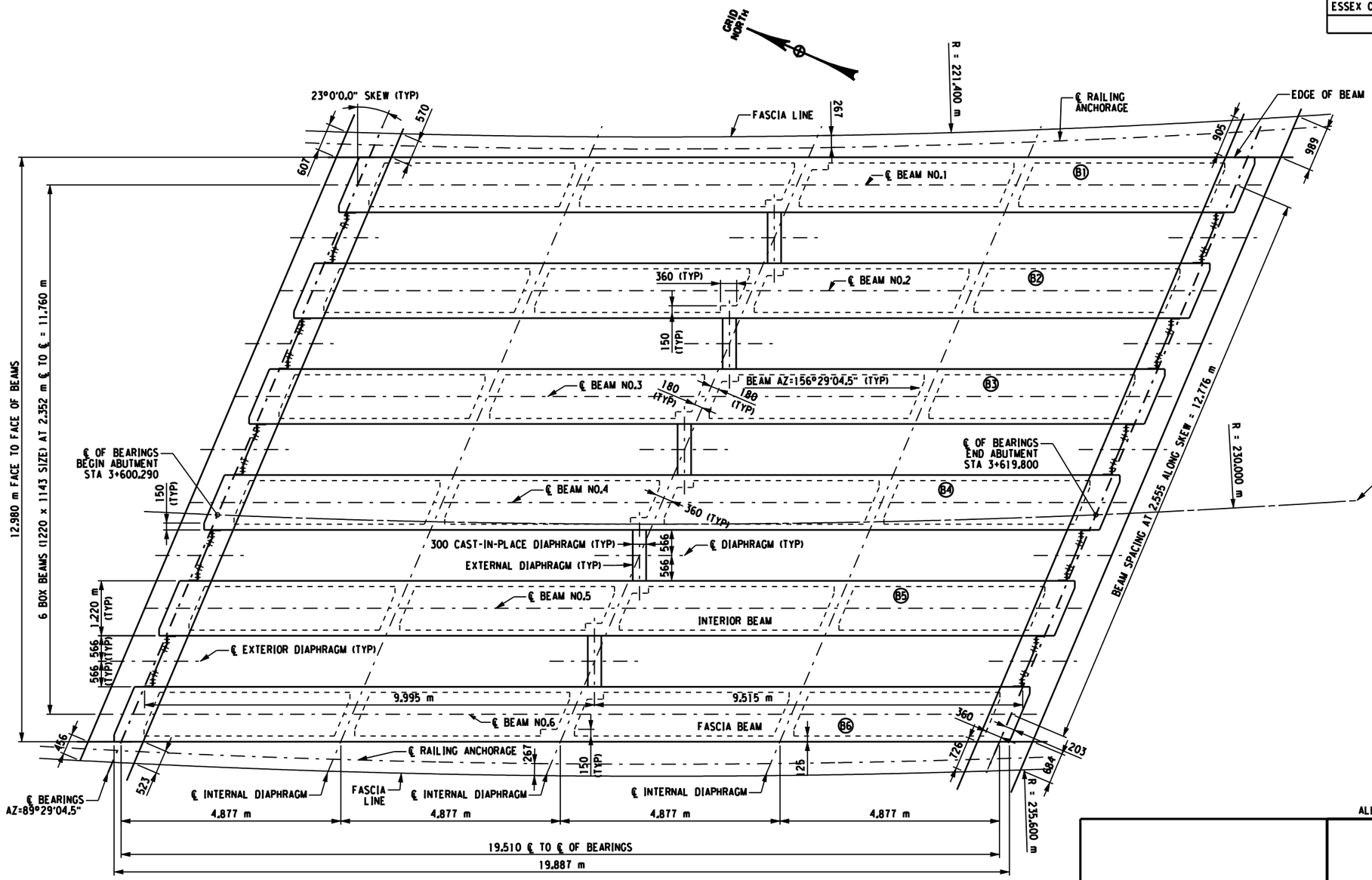
DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB.TYP.SEC.DGN	ONE	AUGUST 2011	ST-19

DESIGN SUPERVISOR W. SHAW — JOB MANAGER K. BALDWIN — DESIGNED BY K.BALDWIN — CHECKED BY W.SHAW — ESTIMATED BY K. BALDWIN — DRAFTED BY B. PARKER — CHECKED BY K.BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		185	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



FRAMING PLAN

1 0 1 2 3 4 5 m
SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

PRESTRESSED CONCRETE BEAM LAYOUT

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

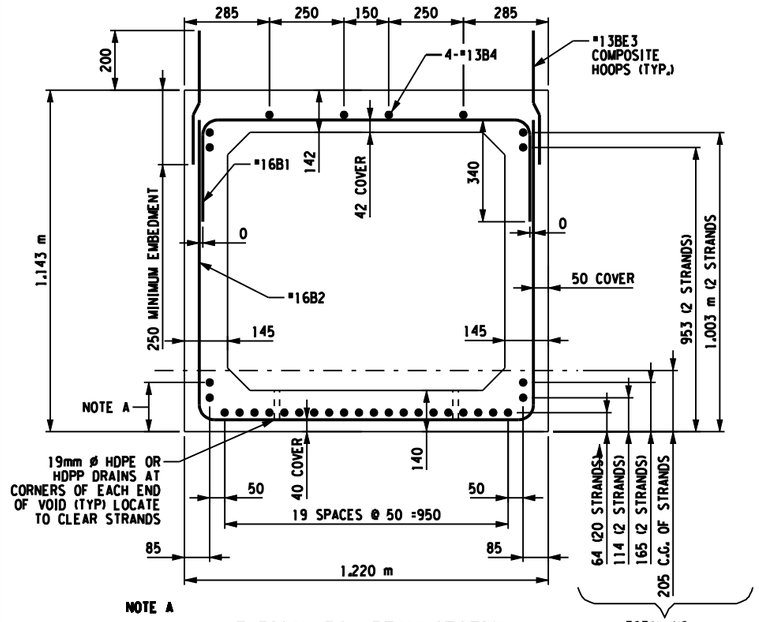
DOCUMENT NAME	REGION	DATE	DRAWING NO.
175496.CPB.FRAM.DGN	ONE	AUGUST 2011	ST-20

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		186	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



NOTE A

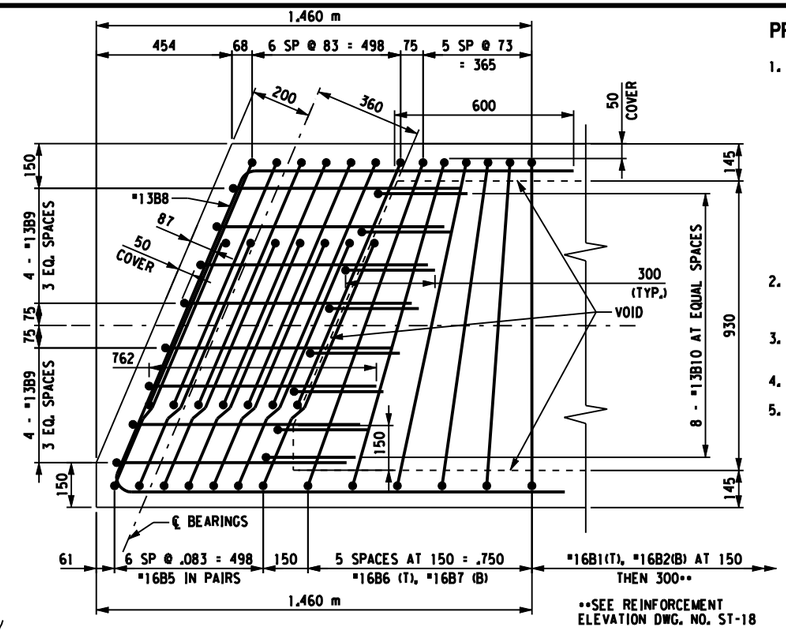
TOTAL NO. STRANDS = 28

TYPICAL BOX BEAM SECTION

SCALE 1:10

NOTE A:
THE CONTRACTOR MAY ELECT TO USE 50.8 INCREMENT

NOTE:
1.) OMIT SHEAR KEYS ON ALL BEAMS



••SEE REINFORCEMENT ELEVATION DWG. NO. ST-18

END BLOCK REINFORCEMENT PLAN

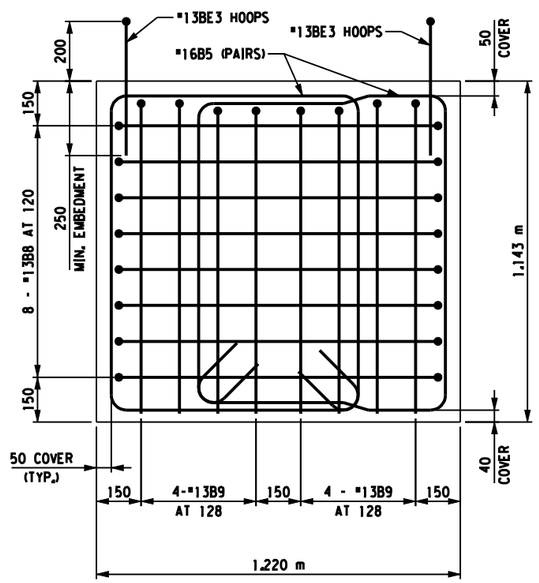
SCALE 1:10

NOTE: • DENOTES AVERAGE BAR LENGTH IN REINFORCEMENT TABLE

PRESTRESSING NOTES:

1. THE PRESTRESSING STRANDS SHALL BE 13 mm DIAMETER WITH A GUARANTEED ULTIMATE STRENGTH OF 1860 MPa.
   JACKING FORCE = 195 kN PER STRAND
   REQUIRED MINIMUM CONCRETE STRENGTH AT TRANSFER = 49 MPa.
   REQUIRED MINIMUM CONCRETE STRENGTH AFTER 28 DAYS = 70 MPa.
   THE ALLOWABLE TENSION IN THE PRESTRESSED CONCRETE UNITS:
   AT TRANSFER = 4.3 MPa
   AT SERVICE LIMIT STATE = 2.07 MPa (HL-93)
   AT SERVICE LIMIT STATE = 3.14 MPa (NYSDOT PERMIT VEHICLE)
2. ALL TEMPORARY INSERTS SHALL BE APPROVED BY THE ENGINEER AND DETAILED ON THE PRESTRESSED CONCRETE "WORKING DRAWINGS".
3. ALL EXPOSED CORNERS, EXCEPT THE TOP, SHALL BE CHAMFERED 20 mm.
4. BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
5. THE TOPS OF PRESTRESSED BEAMS SHALL RECEIVE A TRANSVERSE ROUGHENED FINISH WITH AN AMPLITUDE OF 5mm

CAMBER TABLE @ MID SPAN		
CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD (WITH GROWTH)	↑	25 mm
DEFLECTION DUE TO SLAB DEAD LOAD	↓	7 mm
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	↓	2 mm
TOTAL CAMBER	↑	16 mm
CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD WEIGHT LOAD (W/O GROWTH) AT TRANSFER AT MIDSPAN (mm)	↑	16 mm



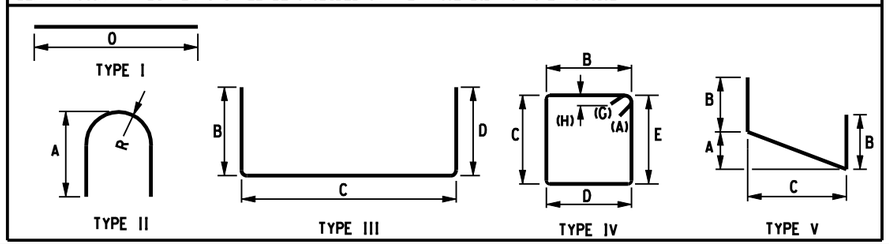
END BLOCK REINFORCEMENT ELEVATION

SCALE 1:10

PRESTRESSED CONCRETE BOX BEAM REINFORCEMENT

	MARK	NO.	LENGTH	TYPE	MASS	A	B	C	D	E	F	G	H	J	K	O	R
BEAM	16B1	67	120.60	III	187.17		0.340	1.120	0.340								
	16B2	67	217.48	III	337.5		1.063	1.120	1.063								
	13BE3	166	149.40	II	148.5	0.450											0.100
	13B4	8	8.40	I	8.35											1.050	
	16B5	28	112.73	IV	175	0.140	0.820	1.053	0.820	1.053		0.140	0.095				
	16B6	12	22.18•	III	34.42		0.340	1.169•	0.340		"C" VARIES FROM 1.120 TO 1.217						
	16B7	12	39.54•	III	60.1		1.063	1.169•	1.063		"C" VARIES FROM 1.120 TO 1.217						
	13B8	16	49.52	V	49.2	0.465	1.000	1.095									
	13B9	16	28.64	III	28.47		0.762	1.028	0.000								
	13B10	64	85.00	III	84.49		0.300	1.028	0.000								
	13B11	32	39.21	I	38.98											1.225	
	TOTAL PLAIN BARS 1003.69 kg PER BEAM																
	TOTAL EPOXY BARS 148.50 kg PER BEAM																
MIDSPAN CAST IN PLACE DIAPHRAGM	13DE1	14	18.34	III	18.23		0.555	0.200	0.550								
	22DE2	16	15.70	I	47.74				150mmTHREADED FOR BEAM INSERTS							0.981	
	TOTAL EPOXY BARS 65.97 kg PER DIAPHRAGM																
BEAM FASCIA AT ABUTMENTS	22FE1	9	4.47	I	13.59											0.497	
	22FE2	9	5.23	I	15.91											0.581	
	22FE3	9	6.48	I	19.71											0.720	
	22FE4	9	8.33	I	25.34											0.925	
	TOTAL EPOXY BARS 74.55 kg ALL FOUR CORNER																

NOTE: THE COST OF THE MIDSPAN CAST-IN-PLACE CONCRETE DIAPHRAGM REINFORCEMENT AND THE REINFORCEMENT AT THE BEAM FASCIA AT ABUTMENTS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 563.02



DESIGN LOAD TABLE - 1220 mm BEAM

	UNIT	LOAD kN/m	REACT. AT ABUTMENT (kN)	MAX MOM. MIDSPAN (kN-m)
D.L.	BEAM	13.85	96	658
	SLAB•	16.15	112	768
	DIAPHRAGMS••	0.55	4	26
	SIP FORMS	1.08	8	51
S.D.L.	RAILING	0.30	3	14
	FUTURE W.S.	2.25	22	107
	SHARED USE PATH•••	4.30	42	205
L.L.	HL-93		373	1488
	NYSDOT DESIGN PERMIT VEHICLE		654	2665

NOTE: REACTIONS AND MOMENTS ARE UNFACTORED AND INCLUDE IMPACT

• SLAB INCLUDES HAUNCH DEAD LOAD
•• EXTERNAL CAST IN PLACE DIAPHRAGMS
••• SHARED USE PATH INCLUDES CONCRETE SDL AND PEDESTRIAN LIVE LOAD

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

PRESTRESSED BOX BEAM DETAILS
(SHEET 1 OF 4)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

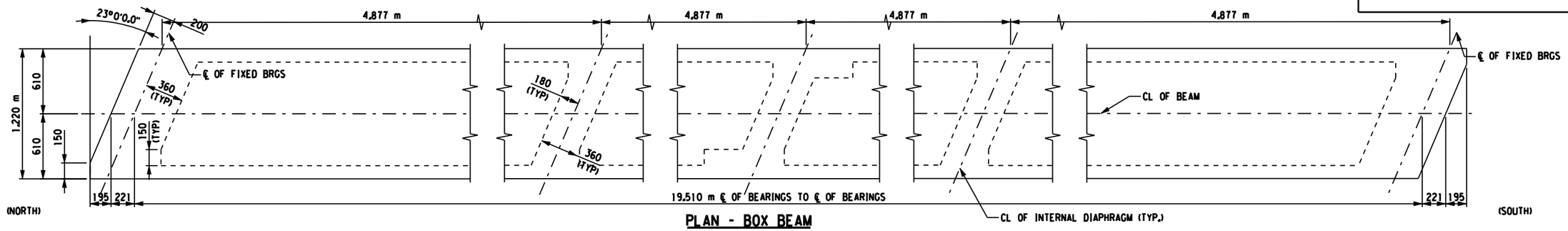
DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB.BEAM.DETL.SEC	ONE	AUGUST 2011	ST-21

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

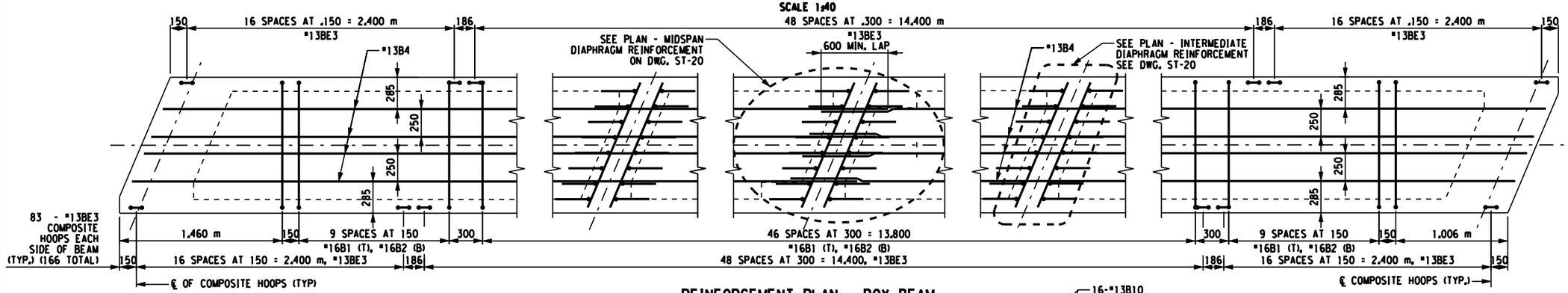
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		187	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



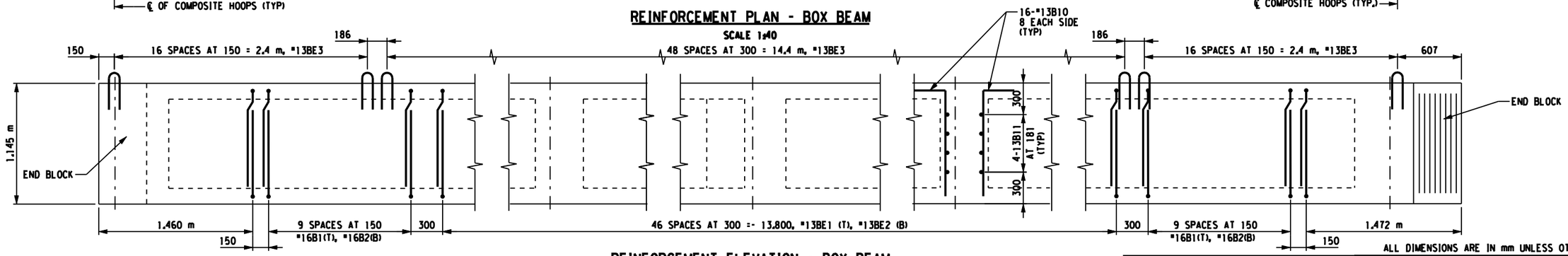
PLAN - BOX BEAM

SCALE 1:40



REINFORCEMENT PLAN - BOX BEAM

SCALE 1:40



REINFORCEMENT ELEVATION - BOX BEAM

SCALE 1:40

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

NOTES:

1.) FOR END BLOCK REINFORCEMENT DETAILS SEE DWG. NO. ST-19.

2.) FOR DIAPHRAGM REINFORCMENT DETAILS SEE DWG. NO. ST-21 & ST-22.

AS BUILT REVISIONS

SIGNATURE DATE

PRESTRESSED BOX BEAM DETAILS
(SHEET 2 OF 4)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB.BOXB.DETL	ONE	AUGUST 2011	ST-22

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

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1	N.Y.		188	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
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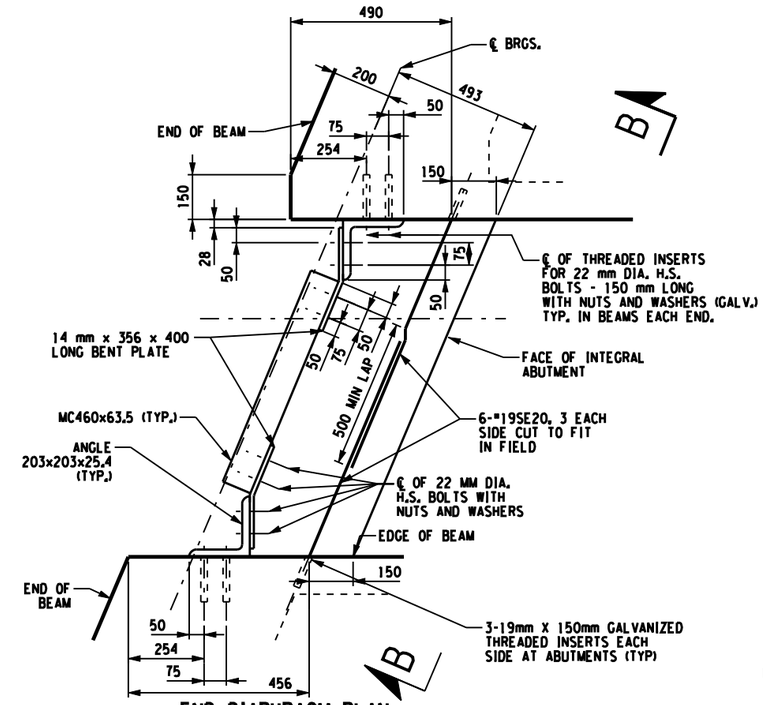
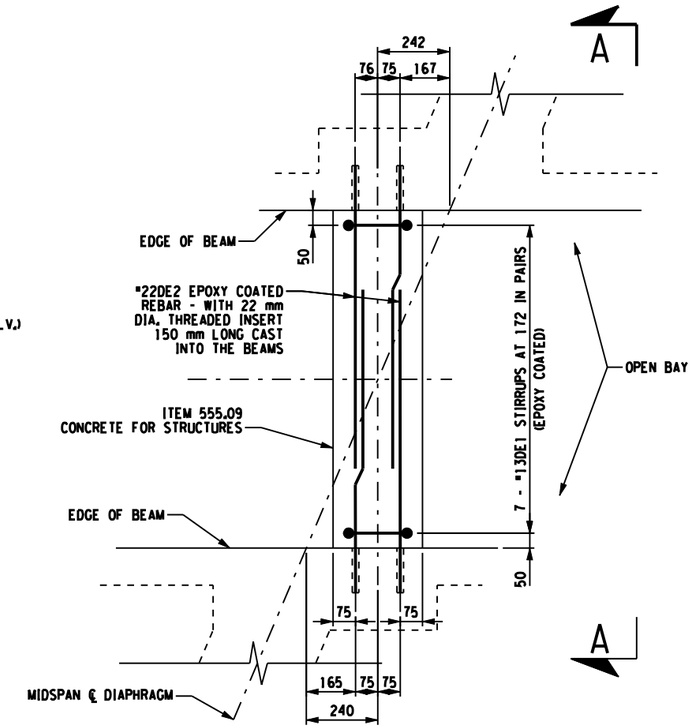
ESSEX COUNTY



END DIAPHRAGM PLAN
SCALE 1:10

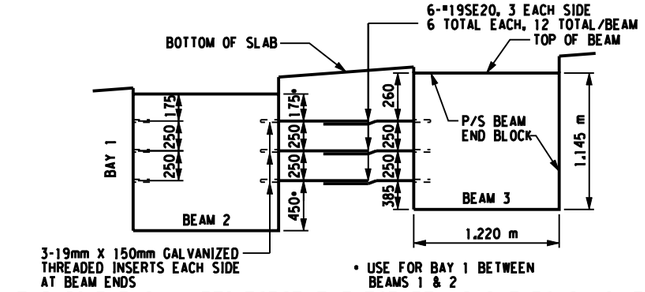


MIDSPAN CAST-IN-PLACE DIAPHRAGM PLAN
SCALE 1:10

NOTE:
ALL THREADED INSERTS CAST IN THE BEAM SHALL BE EPOXY COATED OR GALVANIZED IN ACCORDANCE WITH THE APPLICABLE NYS MATERIAL SPECIFICATIONS

CAST-IN-PLACE DIAPHRAGM CONCRETE TOTALS

ITEM 555.09		
NUMBER OF DIAPHRAGMS	QUANTITY (EA)	TOTAL
5	0.26 CM	1.30 CM



END DIAPHRAGM - REINFORCEMENT FOR BEAMS 2 THROUGH 6 (TYP)
SECTION B-B
NOT TO SCALE

BEAM NOTES:

ALL STEEL SHALL BE INCLUDED IN THE PRICE BID FOR THE BEAM ITEM.

INTERMEDIATE AND END DIAPHRAGM CONNECTIONS SHALL BE FABRICATED WITH THEIR ENDS VERTICAL.

DIAPHRAGM HOLES MAY BE FIELD DRILLED AT NO ADDITIONAL EXPENSE. ALL OTHER HOLES TO BE SHOP DRILLED.

ALL CONNECTIONS BETWEEN STEEL ELEMENTS SHALL BE MADE ACCORDING TO THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.

THREADED INSERTS FOR 22 mm DIA. H.S. BOLTS SHALL BE CAST IN THE PRECAST BEAMS. THE 22 mm DIA. H.S. THREADED INSERTS SHALL PROVIDE A MINIMUM ULTIMATE TENSILE CAPACITY OF 75 KN IN 52 MPa CONCRETE.

THREADED INSERTS FOR REBARS IN BEAMS SHALL BE MECHANICAL CONNECTORS (MEETING ITEM 709-10) AND GALVANIZED IN ACCORDANCE WITH MATERIAL SPECIFICATION 719-01.

INSERTS SHALL BE POSITIONED TO AVOID INTERFERENCE WITH PRESTRESSING STRANDS. ALL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH N.Y.S. STD. SPECIFICATIONS SUBSECTION 719-01.

ALL STEEL SHALL BE ASTM A709M GRADE 345.

STEEL TO STEEL CONNECTIONS SHALL BE MADE USING M22 GALVANIZED HIGH-STRENGTH BOLTS.

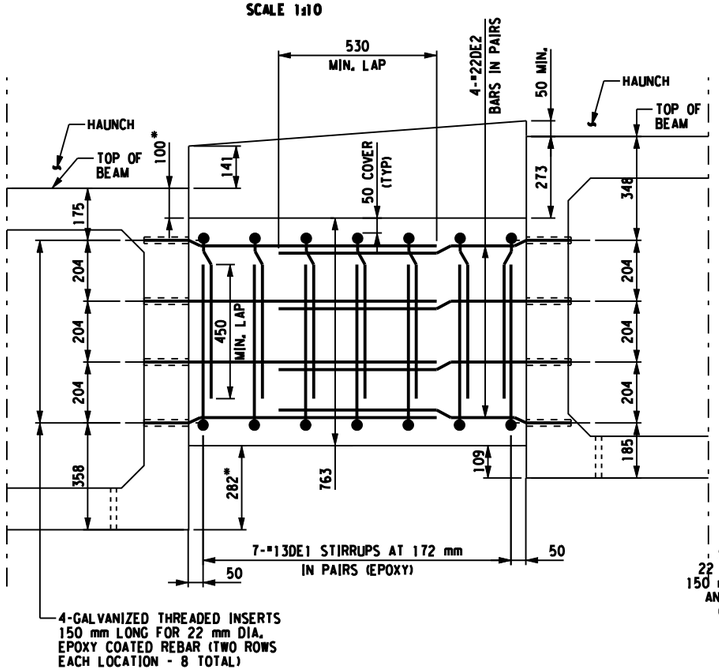
STEEL TO CONCRETE CONNECTIONS SHALL BE MADE USING ASTM A307 GRADE A BOLTS.

WASHERS SHALL BE ASTM F436M. ALL BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 719-01.

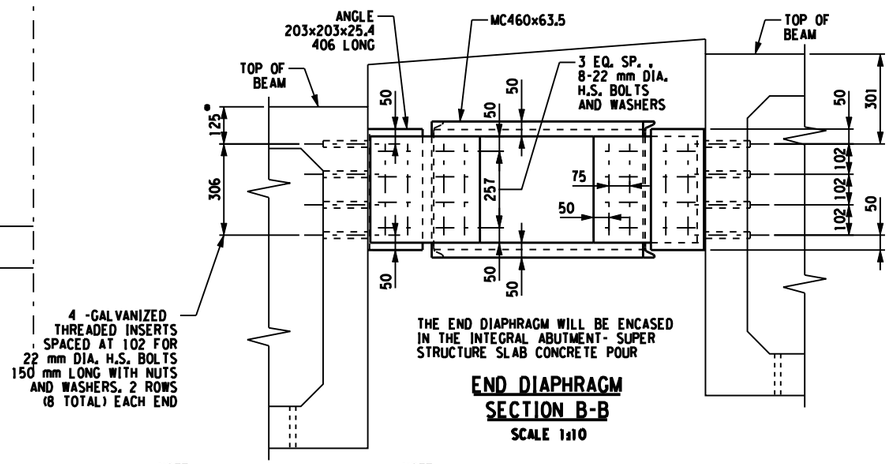
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE FSIP FORM SEAT AND WELD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE CONCRETE LAITANCE FORM THE ATTACHMENT PLATE BEFORE INSTALLING THE FSIP FORMS.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE "ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.



MIDSPAN - CAST-IN-PLACE DIAPHRAGM
SECTION A-A
SCALE 1:10



END DIAPHRAGM
SECTION B-B
SCALE 1:10

NOTE:
TYPICAL FOR BEAMS 2 THRU 6.

* USE FOR BAY BETWEEN BEAM 1 AND BEAM 2, INSIDE EDGES ONLY.

NOTE:
THE COST OF ALL MATERIAL FOR THE END DIAPHRAGMS , CHANNELS, CONNECTION PLATES ANGLES, INSERTS, BOLTS WITH NUTS AND WASHERS, IS TO BE INCLUDED INTO PRICE BID FOR ITEM 563.02

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

PRESTRESSED BOX BEAM DETAILS
(SHEET 3 OF 4)

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

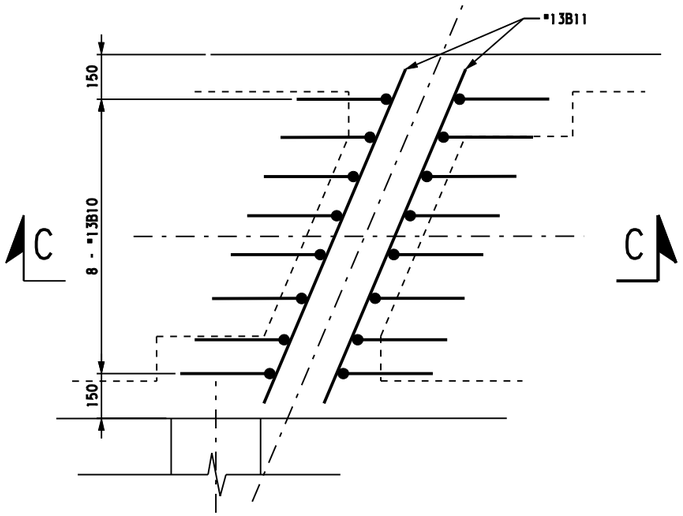
DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB.DPHRM.DETL.SEC.01	ONE	AUGUST 2011	ST-23

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY K.BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

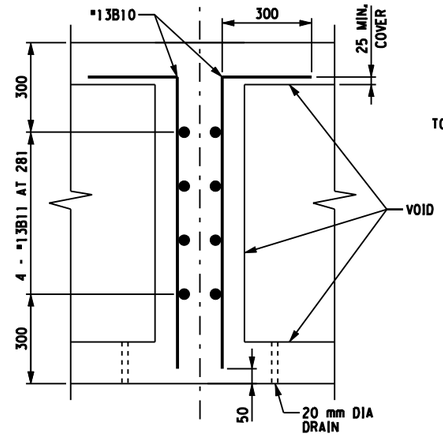
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		189	205

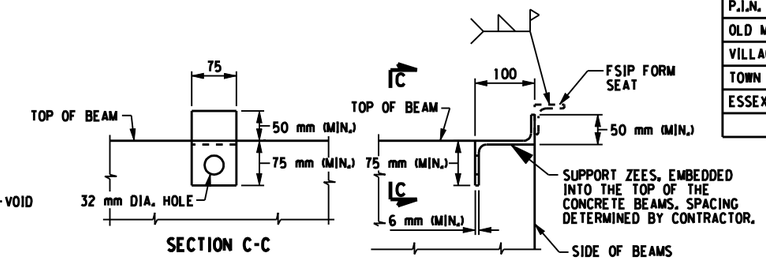
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



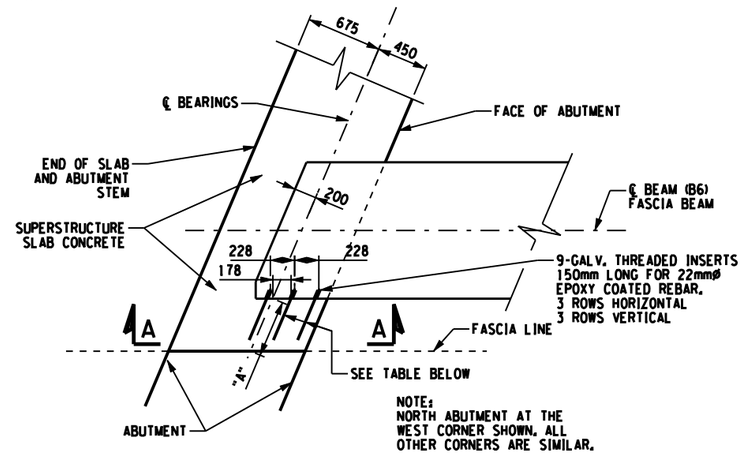
MIDSPAN BEAM DIAPHRAGM PLAN
SCALE 1:10



SECTION C-C
SCALE 1:10



SUGGESTED FORM SUPPORT DETAILS FOR PRESTRESSED BEAMS
(PERMANENT CORRUGATED METAL FORMS)

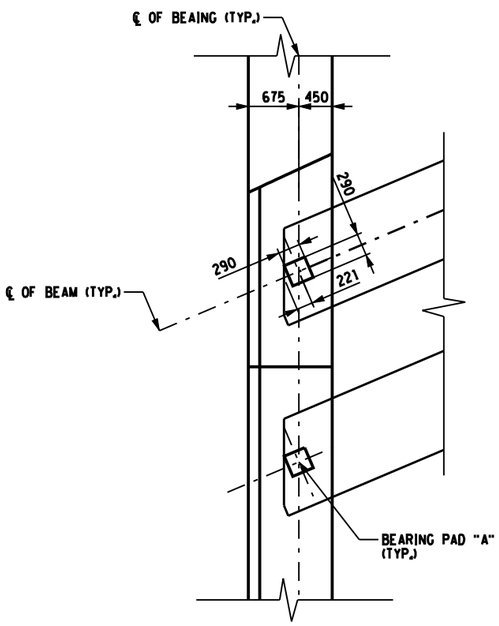


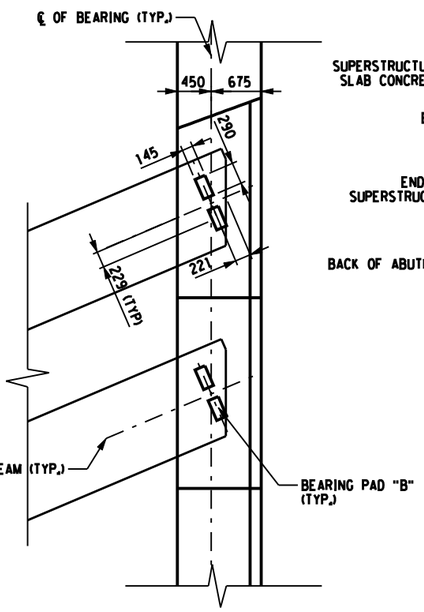
NOTE:
NORTH ABUTMENT AT THE WEST CORNER SHOWN. ALL OTHER CORNERS ARE SIMILAR.

BAR MARKS	DIMENSION "A"
NORTH ABUTMENT - WEST CORNER - #22FE1	497
NORTH ABUTMENT - EAST CORNER - #22FE2	581
SOUTH ABUTMENT - WEST CORNER - #22FE3	720
SOUTH ABUTMENT - EAST CORNER - #22FE4	925

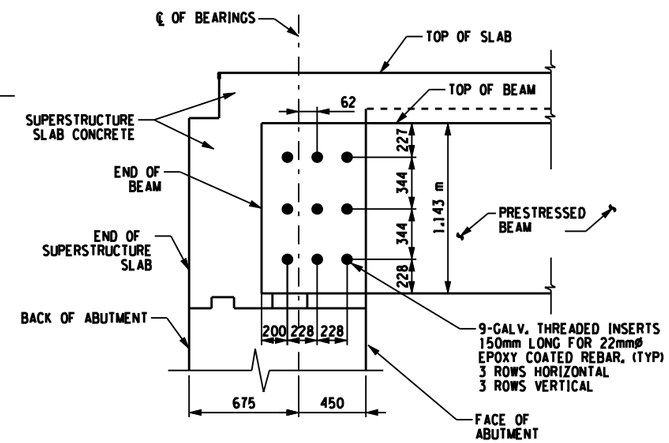
TYPICAL CORNER DETAIL AT ABUTMENTS
NOT TO SCALE

NOTE:
FOR THE CORNER REINFORCEMENT BAR LIST SEE THE PRESTRESSED CONCRETE BOX BEAM REINFORCEMENT TABLE ON DWG NO. ST-19.



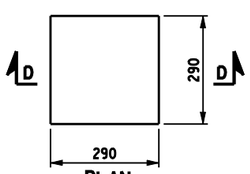


PLAN
BEARING PAD PLACEMENT PRESTRESSED ADJACENT BEAM
SCALE 1:10

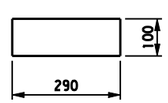


NOTE:
COST OF ALL INSERTS, REINFORCEMENT AND ALL OTHER MATERIALS REQUIRED TO SATISFACTORILY COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PRESTRESSED BEAM ITEM.

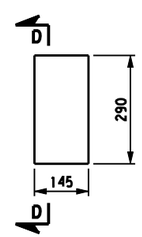
SECTION A-A
CORNER DETAIL AT ABUTMENT
NOT TO SCALE



PLAN
BEARING PAD "A"



SECTION D-D



PLAN
BEARING PAD "B"

NOTE:
BEARING PADS TO MEET THE REQUIREMENTS OF NYS MATERIAL SPECIFICATION 728-01, RUBBER IMPREGNATED WOVEN BEARING PADS TO BE PAID FOR UNDER ITEM 565.30.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

PRESTRESSED BOX BEAM DETAILS
(SHEET 4 OF 4)

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
CPB_DPHRM_DETL.SEC.02	ONE	AUGUST 2011	ST-24

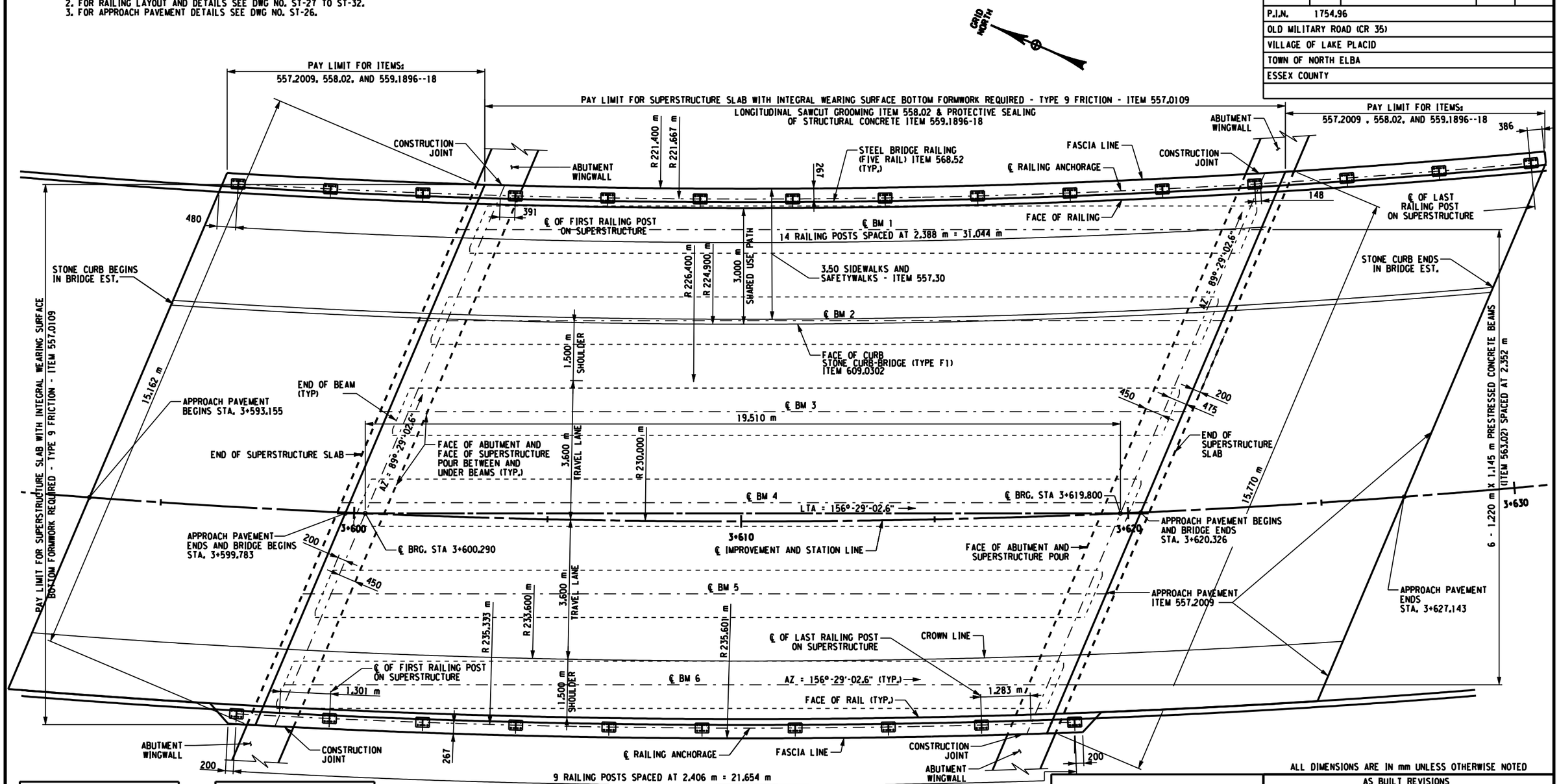
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		190	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

NOTES:
1. FOR TRANSVERSE SECTION SEE DWG NO. ST-17.
2. FOR RAILING LAYOUT AND DETAILS SEE DWG NO. ST-27 TO ST-32.
3. FOR APPROACH PAVEMENT DETAILS SEE DWG NO. ST-26.



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

BEAM NO. 1		
PT.	STATION	OFFSET (m)
℄ BRG. N.A.	3+603.186	1.157
0.10	3+605.201	1.107
0.20	3+607.215	1.075
0.30	3+609.229	1.060
0.40	3+611.244	1.062
0.50	3+613.258	1.081
0.60	3+615.272	1.118
0.70	3+617.286	1.171
0.80	3+619.301	1.241
0.90	3+621.315	1.329
℄ BRG. S.A.	3+623.329	1.433

BEAM NO. 6		
PT.	STATION	OFFSET (m)
℄ BRG. N.A.	3+598.634	1.095
0.10	3+600.548	1.183
0.20	3+602.461	1.255
0.30	3+604.375	1.311
0.40	3+606.288	1.350
0.50	3+608.202	1.374
0.60	3+610.202	1.381
0.70	3+612.029	1.372
0.80	3+613.942	1.347
0.90	3+615.856	1.305
℄ BRG. S.A.	3+617.769	1.247

TABLE NOTE:
THE OFFSET DISTANCES ARE MEASURED PERPENDICULAR FROM THE CENTERLINE OF THE BEAM TO THE EDGE OF THE FASCIA.

SUPERSTRUCTURE PLAN WITH APPROACH PAVEMENT

NOT TO SCALE

SUPERSTRUCTURE SLAB TABLE (m²)		
ITEM	DESCRIPTION	QUANTITY
557.2009	CONCRETE	185
558.02	LONGITUDINAL SAWCUT GROOVING	340
559.1896--18	PROTECTIVE SEALING OF CONCRETE	440

AS BUILT REVISIONS

SIGNATURE DATE

SUPERSTRUCTURE GENERAL SLAB PLAN

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

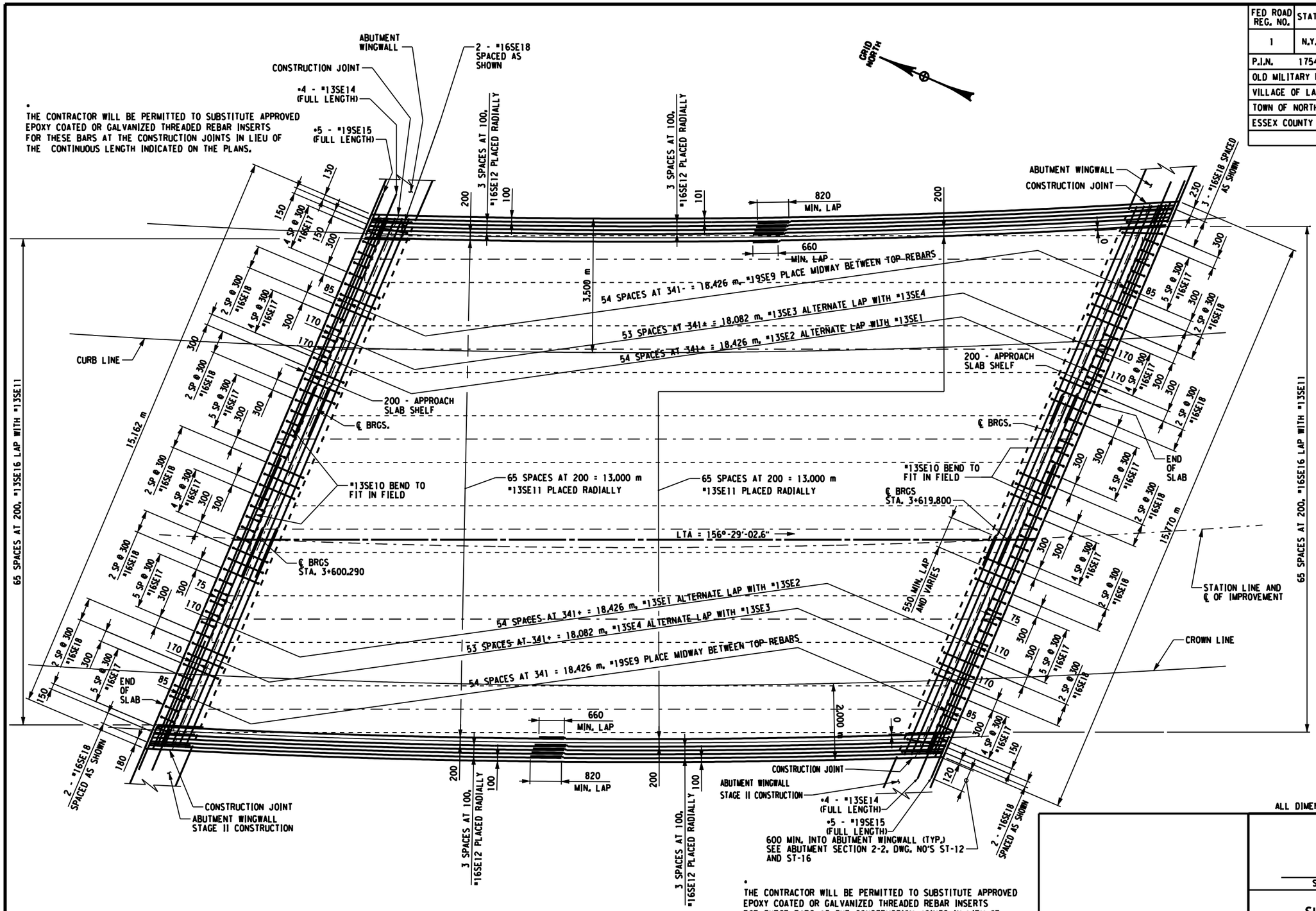
DOCUMENT NAME	REGION	DATE	DRAWING NO.
.CPB.DECK.LO.DGN	ONE	AUGUST 2011	ST-25

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = AUGUST 25, 2011
DATE/TIME =
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		191	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



• THE CONTRACTOR WILL BE PERMITTED TO SUBSTITUTE APPROVED EPOXY COATED OR GALVANIZED THREADED REBAR INSERTS FOR THESE BARS AT THE CONSTRUCTION JOINTS IN LIEU OF THE CONTINUOUS LENGTH INDICATED ON THE PLANS.

• THE CONTRACTOR WILL BE PERMITTED TO SUBSTITUTE APPROVED EPOXY COATED OR GALVANIZED THREADED REBAR INSERTS FOR THESE BARS AT THE CONSTRUCTION JOINTS IN LIEU OF THE CONTINUOUS LENGTH INDICATED ON THE PLANS.

SUPERSTRUCTURE SLAB TOP REINFORCEMENT PLAN

SCALE 1:50

NOTES:

1. FOR SUPERSTRUCTURE SLAB BOTTOM REINFORCEMENT PLAN SEE DWG. NO. ST-25
2. FOR SLAB DETAIL AT NORTH AND SOUTH ABUTMENTS SEE DWGS. NO. ST-12 AND NO. ST-16 RESPECTIVELY.
3. FOR RAILING LAYOUT SEE DWG. NO. ST-27
4. FOR SHARED USE PATH REINFORCEMENT SEE DWG. NO. ST-25
5. ALL CONCRETE COVER TO BE 75 UNLESS OTHERWISE NOTED.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SUPERSTRUCTURE SLAB TOP REINFORCEMENT PLAN

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Kamer Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

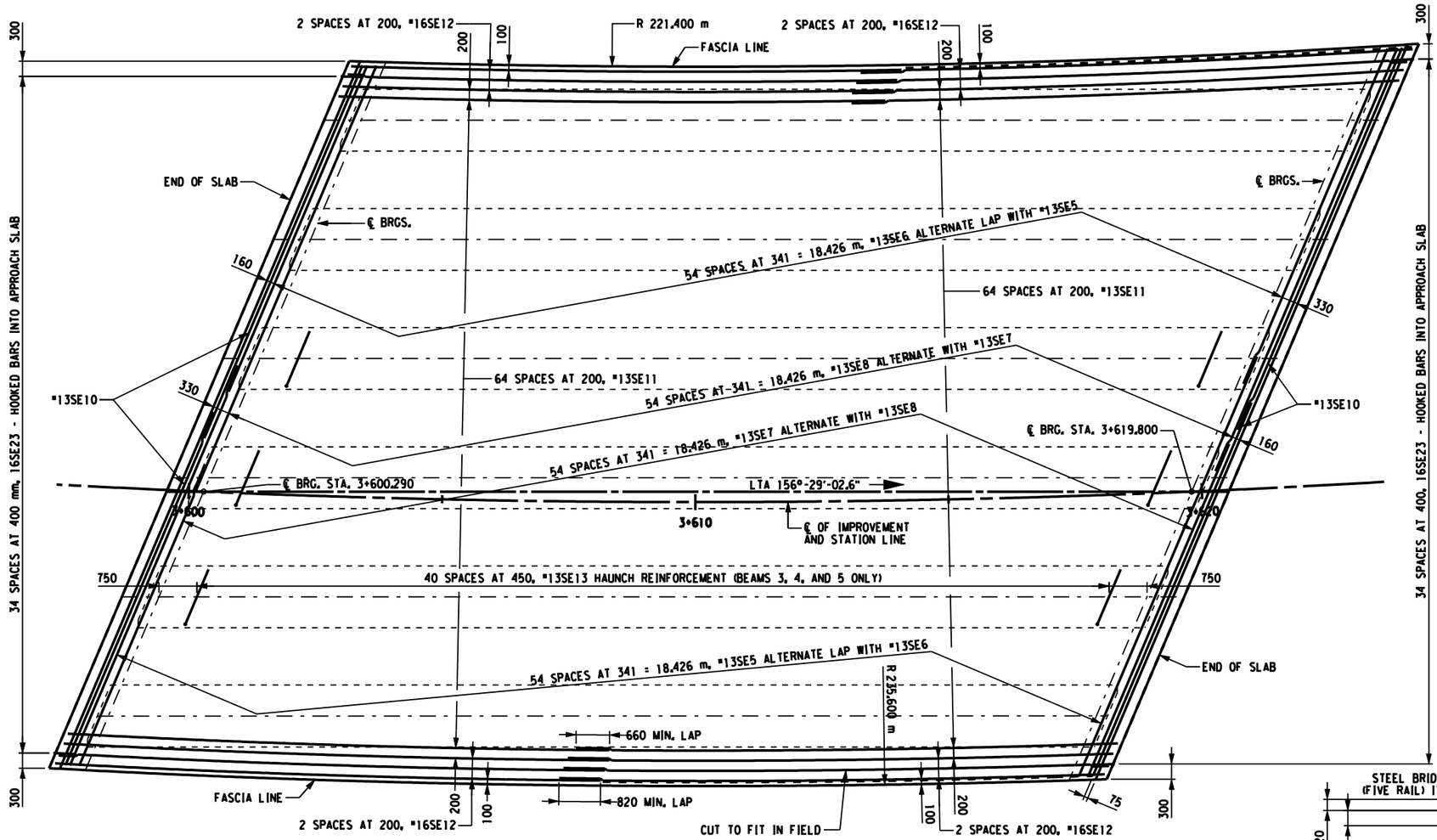
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*CPB.DECK.SLAB.TOP.REINF	ONE	AUGUST 2011	ST-26

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY K.BALDWIN ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		192	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SUPERSTRUCTURE SLAB BOTTOM REINFORCEMENT PLAN
SCALE 1:50

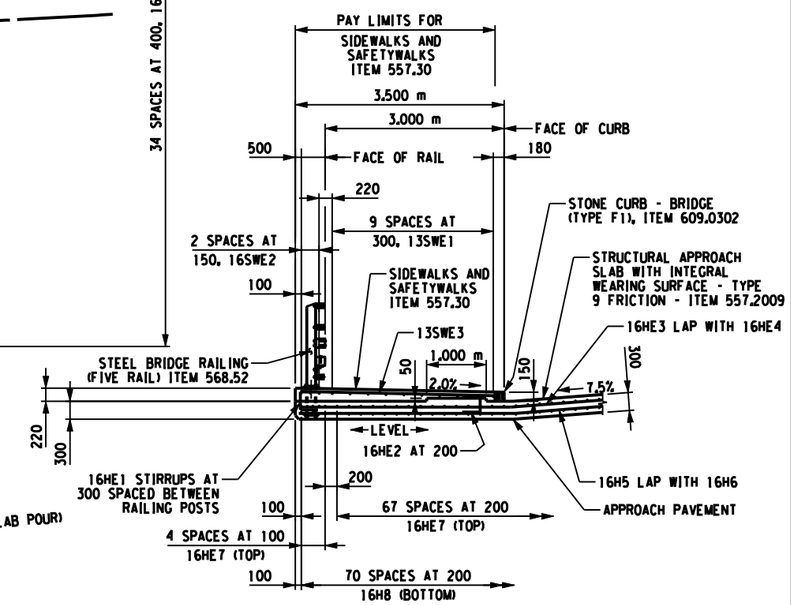
NOTES:

FOR SUPERSTRUCTURE SLAB TOP REINFORCEMENT PLAN SEE DWG. NO. ST-24

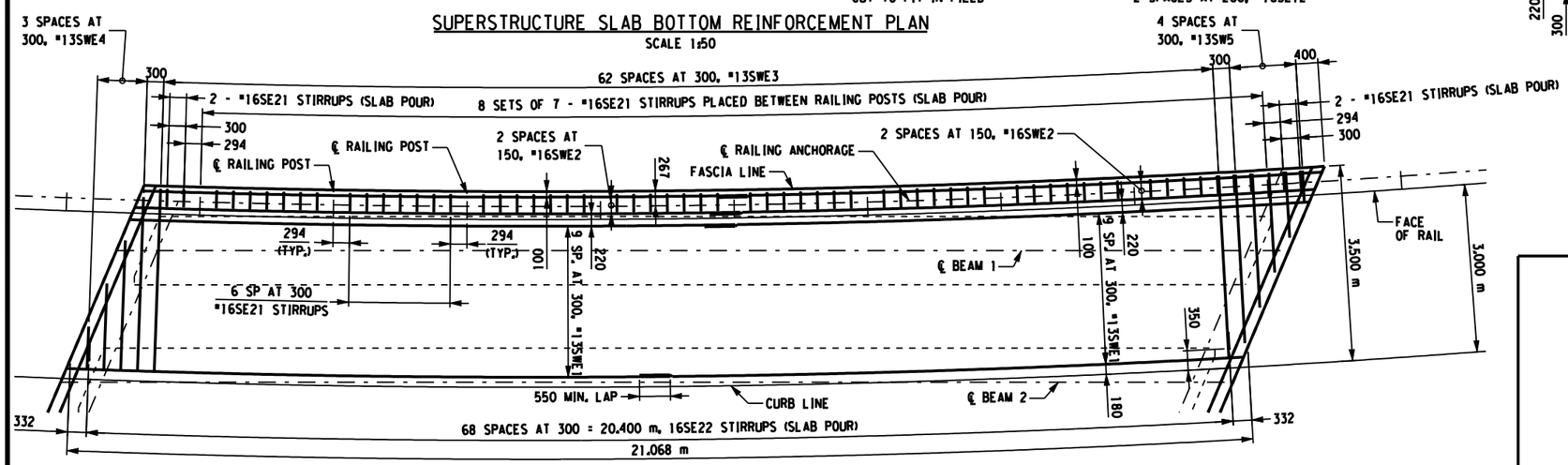
FOR SHARED USE PATH REINFORCEMENT PLAN SEE THIS DWG.

FOR TRANSVERSE SECTION SEE DWG. NO. ST-17

THE #16SE21 AND #16SE22 STIRRUPS IN THE SLAB POUR NOT SHOWN. FOR LOCATION AND SPACING SEE THE SHARED USE PATH REINFORCEMENT PLAN THIS DWG AND THE TRANSVERSE BRIDGE SECTION, DWG NO ST-17



SHARED USE PATH APPROACH PAVEMENT SECTION (TYP)
SCALE 1:50



SHARED USE PATH REINFORCEMENT PLAN
SCALE 1:50

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

SUPERSTRUCTURE SLAB BOTTOM AND SHARED USE PATH REINFORCEMENT PLANS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

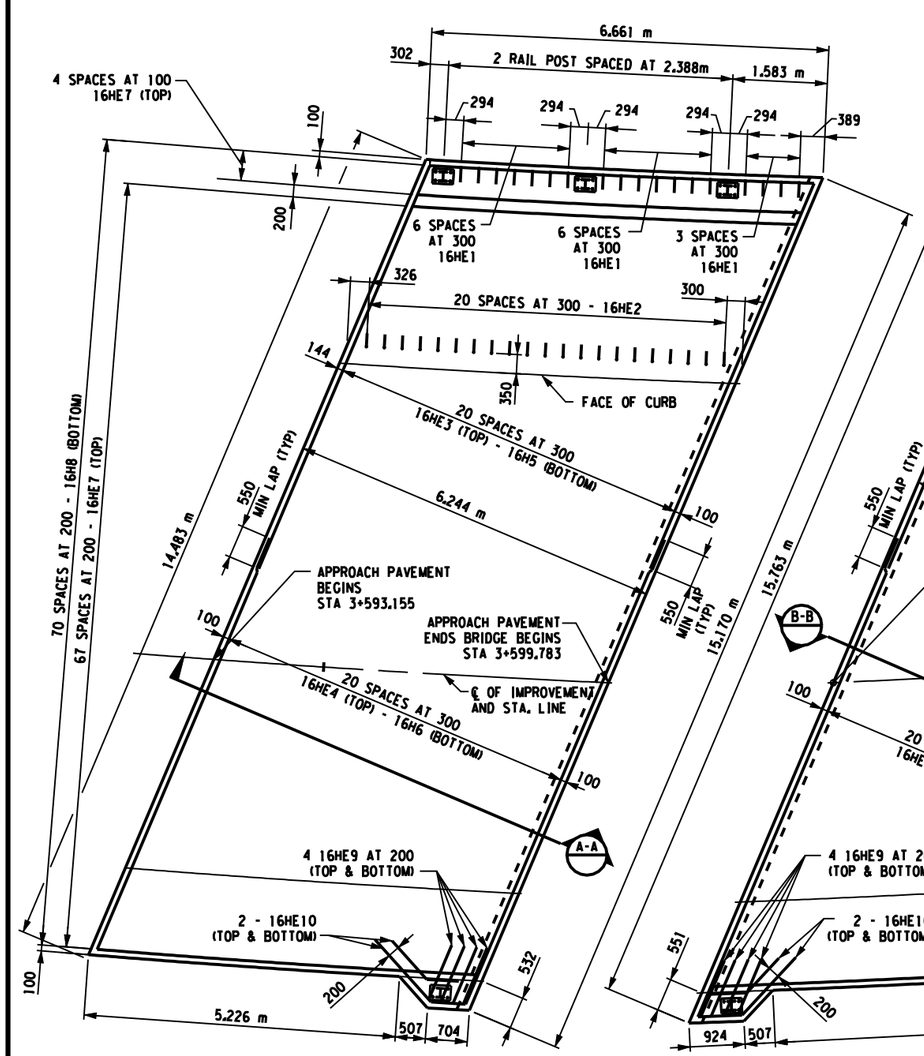
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.SHT,CPD,DECK,SLAB,BOT,REINF	ONE	AUGUST 2011	ST-27

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

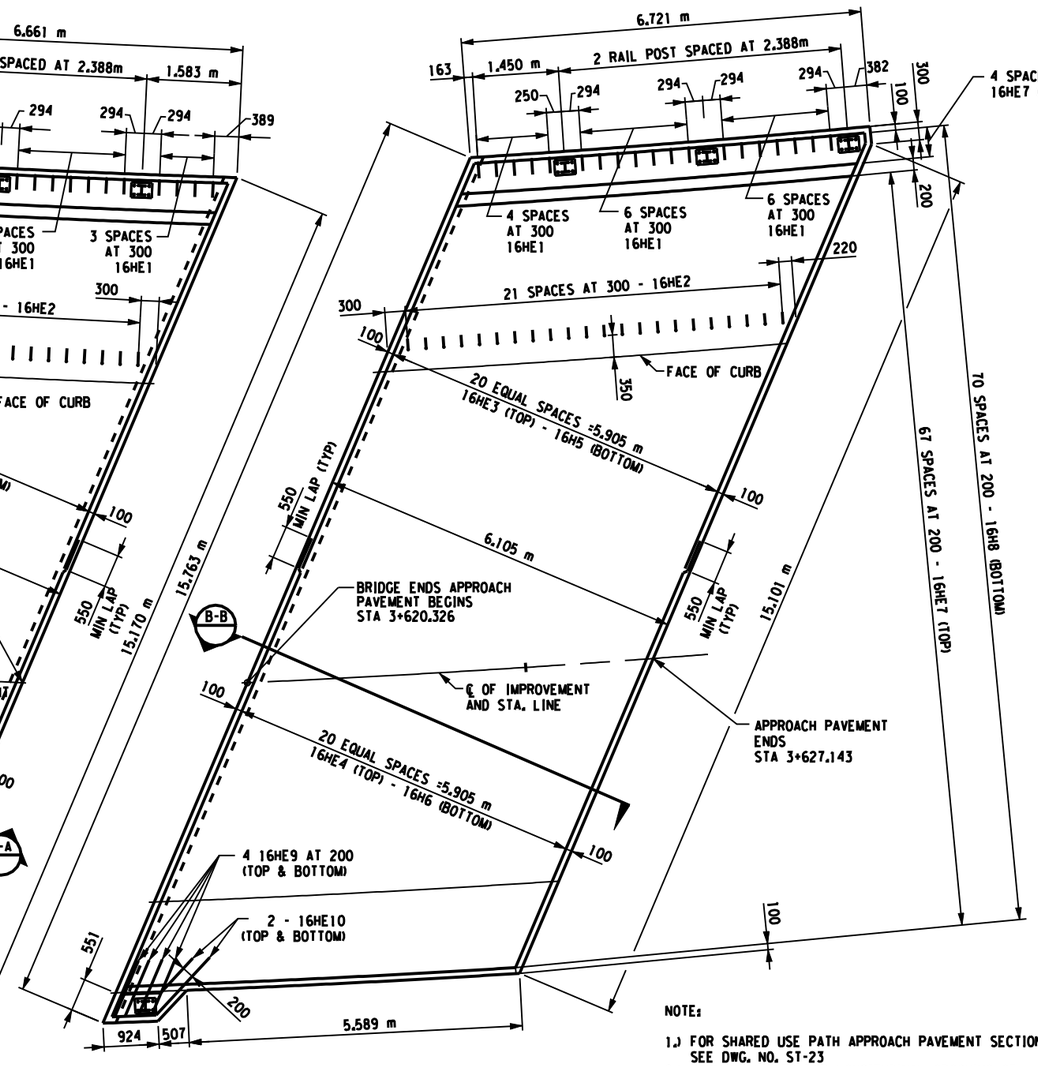
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		193	205

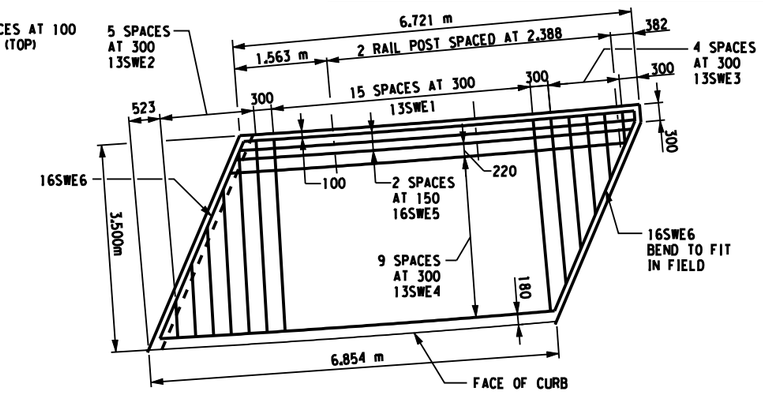
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



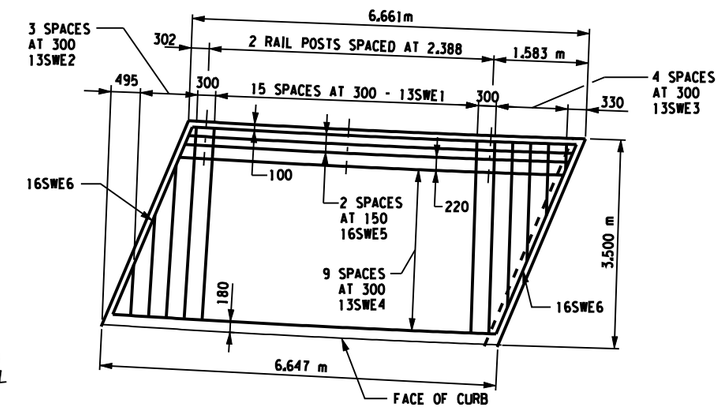
NORTH APPROACH PAVEMENT
SCALE= 1:50



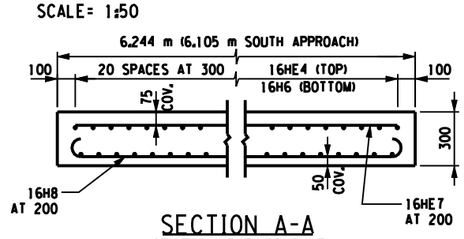
SOUTH APPROACH PAVEMENT
SCALE= 1:50



SHARED USE PATH REINFORCEMENT PLAN
SOUTH APPROACH PAVEMENT
SCALE= 1:50



SHARED USE PATH REINFORCEMENT PLAN
NORTH APPROACH PAVEMENT
SCALE= 1:50



SECTION A-A
(SECTION B-B SIMILAR)
NOT TO SCALE

NOTE:

1.) FOR SHARED USE PATH APPROACH PAVEMENT SECTION SEE DWG. NO. ST-23
2.) PAYMENT LIMITS FOR LONGITUDINAL GROOVING OF APPROACH SLABS IS FROM FACE OF RAIL TO FACE OF CURB
3.) PAYMENT LIMITS FOR PROTECTIVE SEALING OF STRUCTURAL CONCRETE IS FROM FACE OF RAIL TO FACE OF RAIL

NORTH APPROACH PAVEMENT TABLE (m²)			SOUTH APPROACH PAVEMENT TABLE (m²)		
ITEM	DESCRIPTION	QUANTITY	ITEM	DESCRIPTION	QUANTITY
557.2009	CONCRETE	91	557.2009	CONCRETE	93
558.02	LONGITUDINAL SAWCUT GROOVING	64	558.02	LONGITUDINAL SAWCUT GROOVING	63
559.1896 18	PROTECTIVE SEALING OF CONCRETE	83	559.1896 18	PROTECTIVE SEALING OF CONCRETE	81

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

APPROACH PAVEMENT & SHARED USE PATH REINFORCEMENT PLAN AND SECTION

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

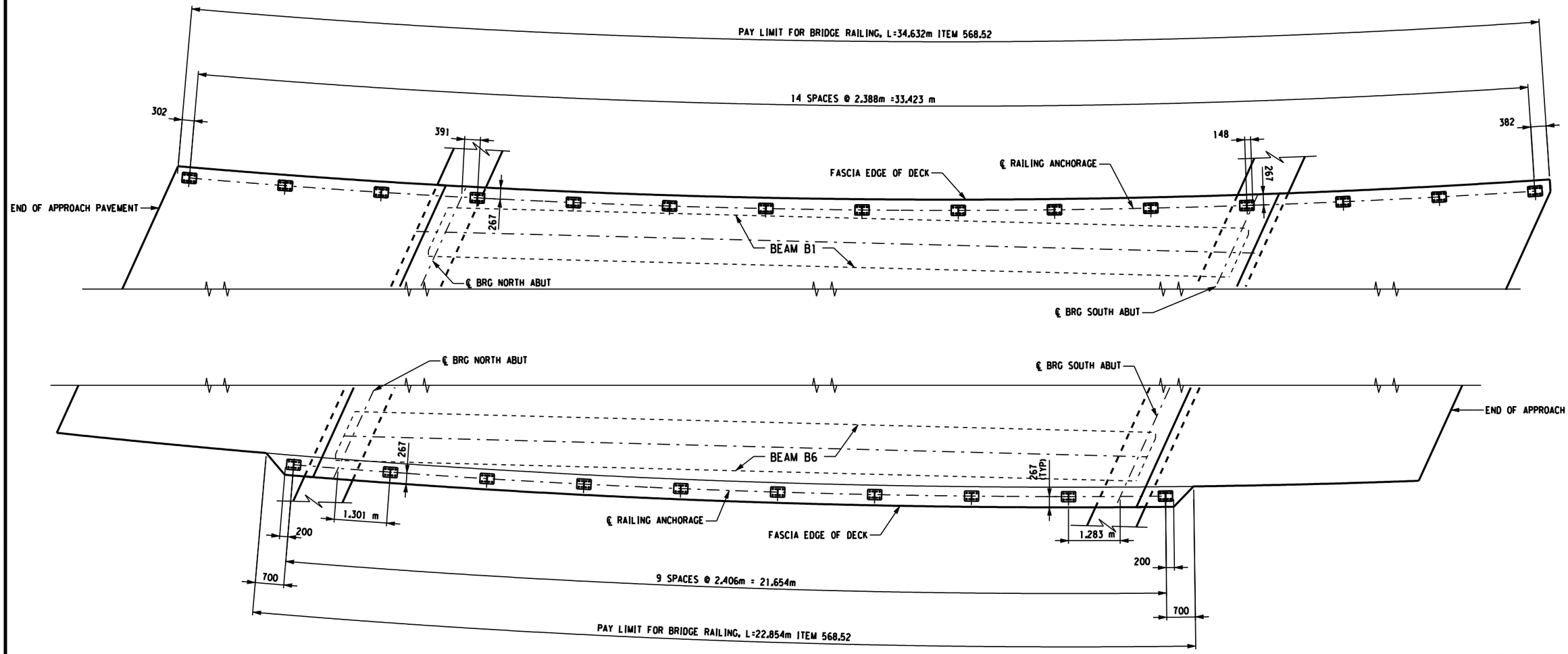
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.SHT.CPB.APP.SLAB.L0	ONE	AUGUST 2011	ST-28

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		194	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

RAILING LAYOUT
SCALE 1:100

NOTE:
FOR RAILING DETAILS SEE DWG. NO. ST-29 THRU ST-31.

THE STONE CURB-BRIDGE (TYPE F1) NOT SHOWN

AS BUILT REVISIONS

SIGNATURE DATE

BRIDGE RAILING LAYOUT

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

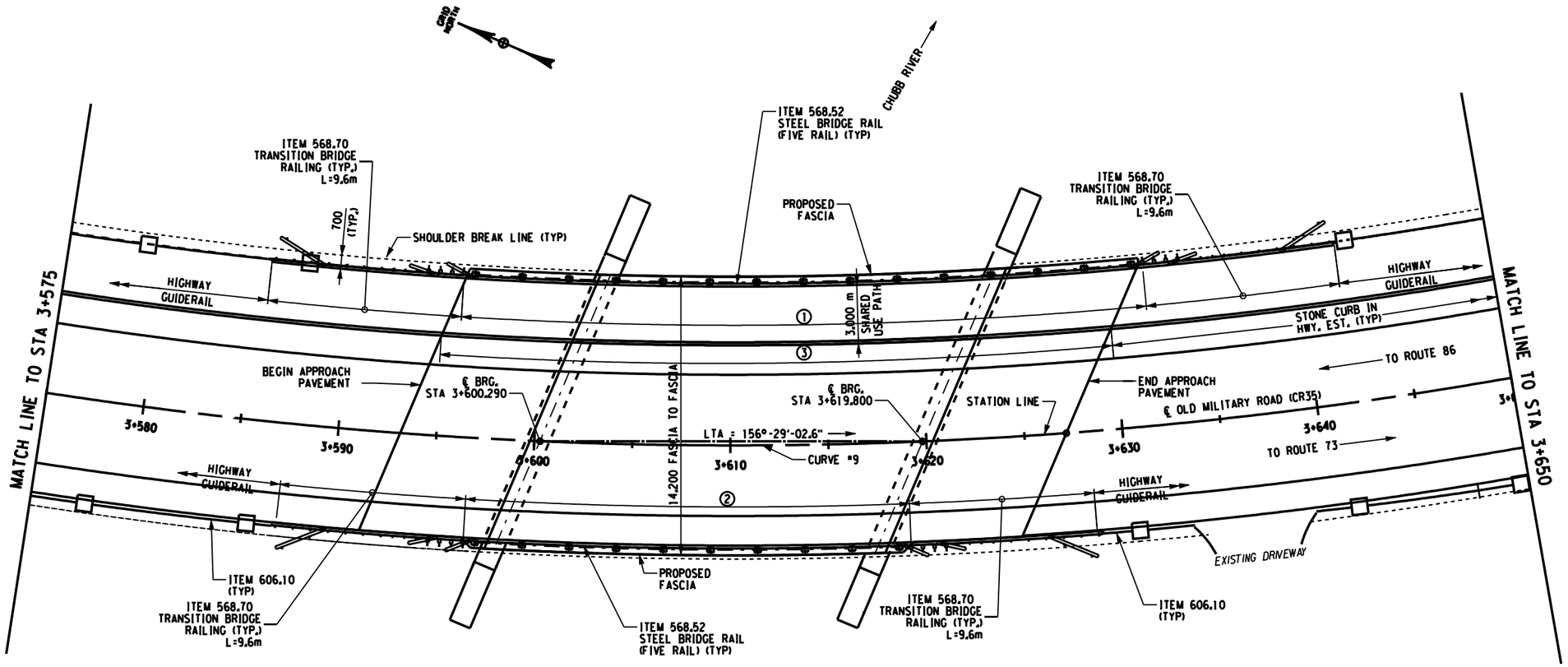
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.DTL.RLG.L0	ONE	AUGUST 2011	ST-29

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		195	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



① PAY LIMIT FOR BRIDGE RAILING, L = 34.632 m, ITEM 568.52
② PAY LIMIT FOR BRIDGE RAILING, L = 22.854m, ITEM 568.52
③ PAY LIMIT FOR STONE CURB-BRIDGE (TYPE F1), L= 34.45m, ITEM 609.0302

NOTES:
FOR RAILING DETAILS SEE DWG. NO'S ST-29 THRU ST-32.

PLAN

SCALE 1:125

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

GENERAL BRIDGE RAILING AND STONE CURB PLAN

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

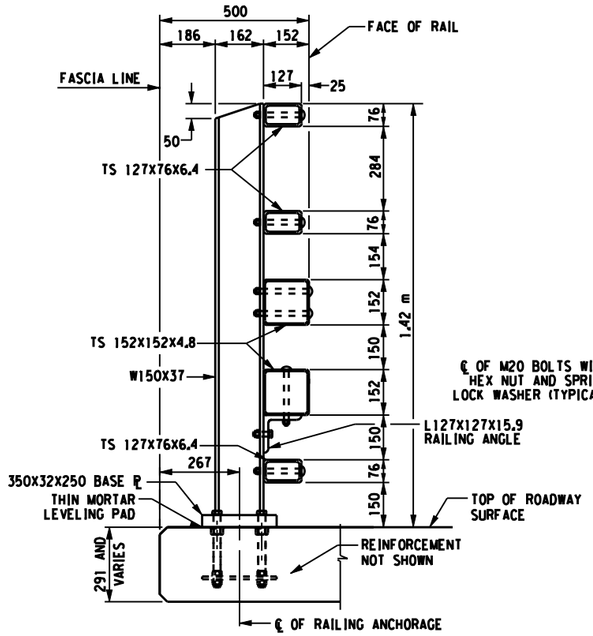
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_RLG.DGN	ONE	AUGUST 2011	ST-30

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY K.BALDWIN
DRAFTED BY B. PARKER CHECKED BY K.BALDWIN
ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

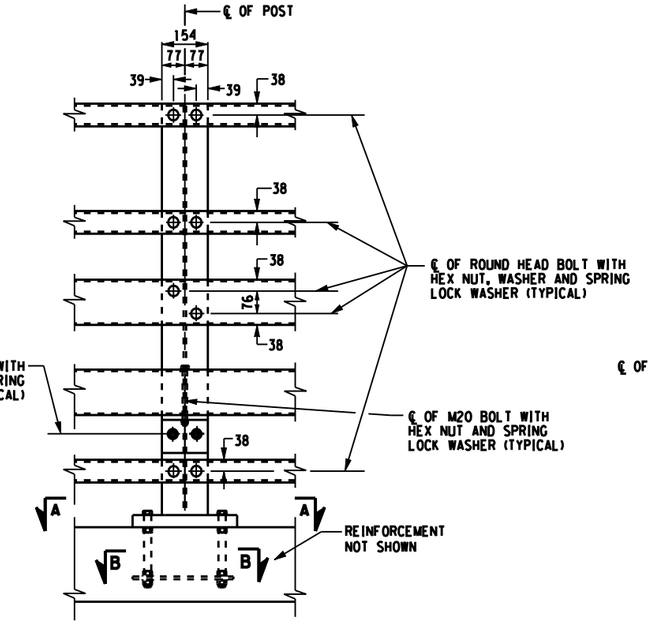
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		196	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



SECTION

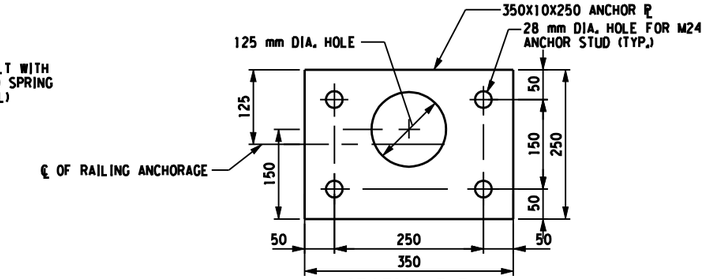


ELEVATION

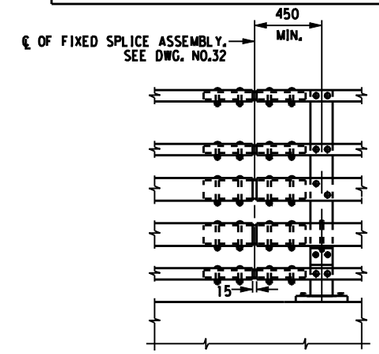
BRIDGE RAILING- WEST SIDE••
(FIVE-RAIL - CURBLESS)

NOT TO SCALE

•• USE THIS SECTION ON THE APPROACH PAVEMENT RAILING POST (WEST SIDE ONLY)



SECTION B-B



ELEVATION

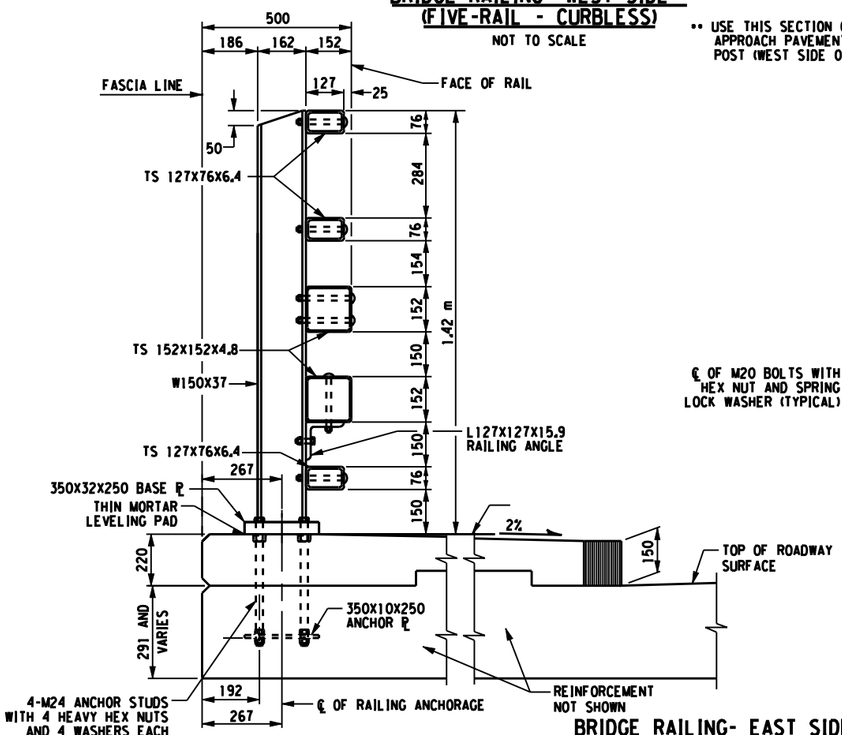
STEEL BRIDGE RAILING SPLICE DETAILS
(FIVE-RAIL - CURBLESS)

NOT TO SCALE

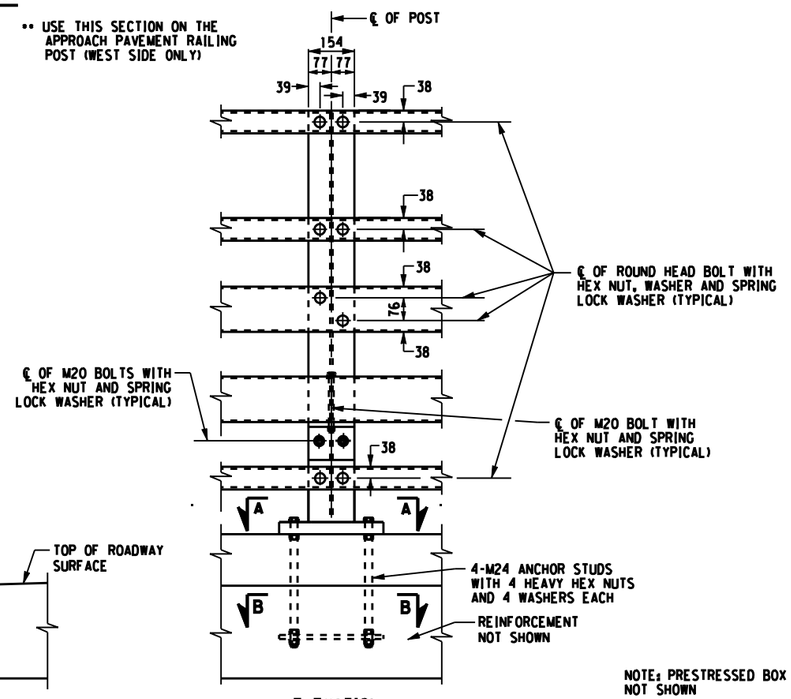
NOTES:

NOTE "D"
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.



SECTION



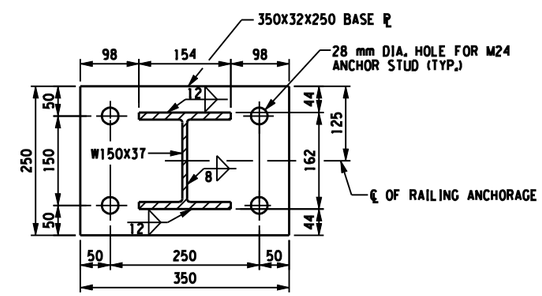
ELEVATION

NOTE: PRESTRESSED BOX BEAMS NOT SHOWN

BRIDGE RAILING- EAST SIDE••
(FIVE-RAIL - SHARED USE PATH)

NOT TO SCALE

•• USE THIS SECTION ON THE APPROACH PAVEMENT RAILING POST (EAST SIDE ONLY)



SECTION A-A

NOT TO SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

BRIDGE RAILING DETAILS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

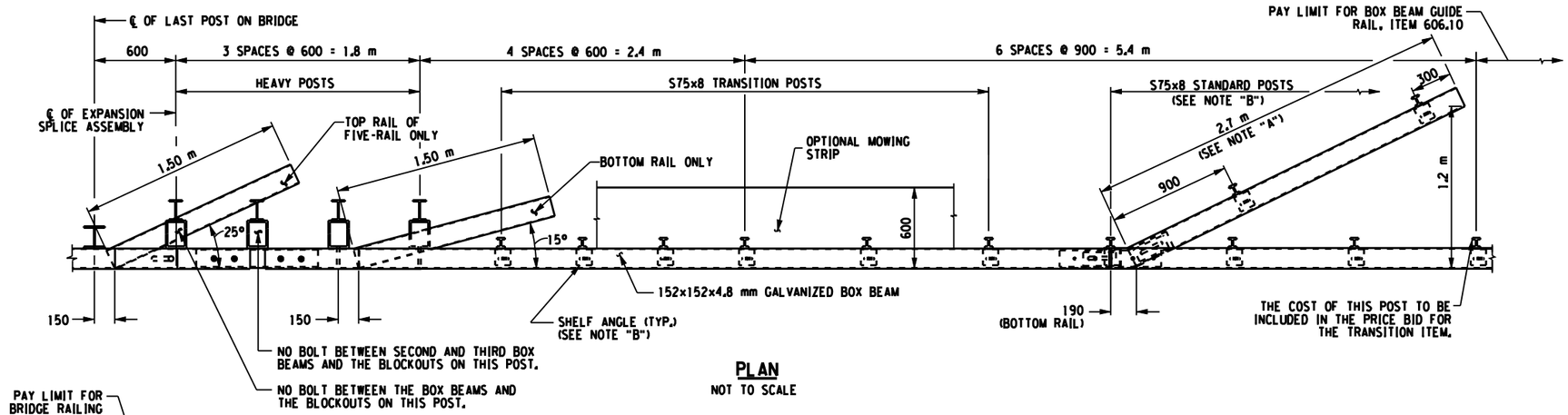
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_DTL_RLG.DGN	ONE	AUGUST 2011	ST-31

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

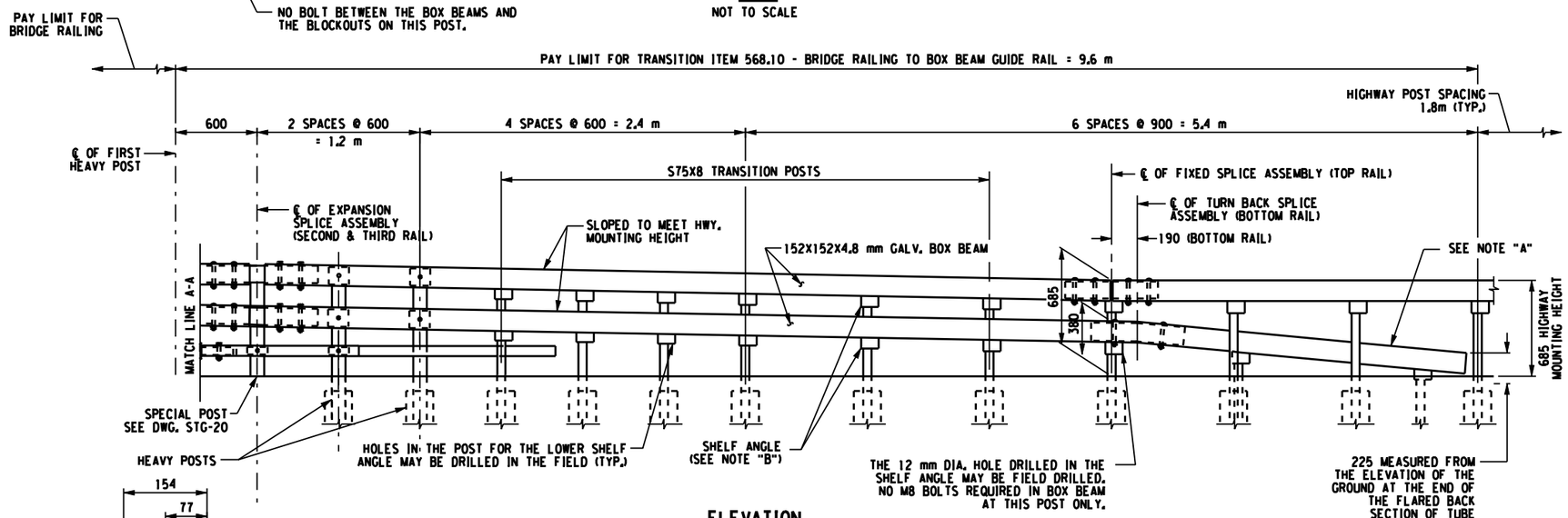
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		197	205

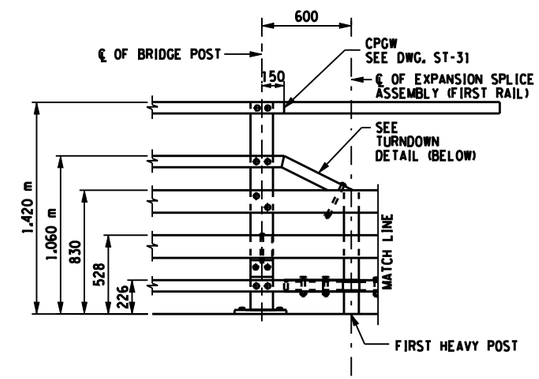
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



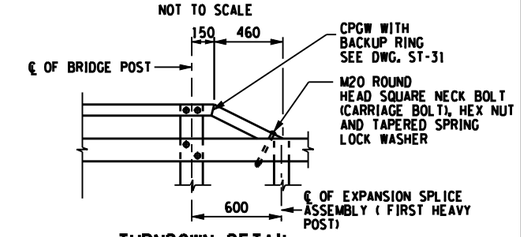
PLAN
NOT TO SCALE



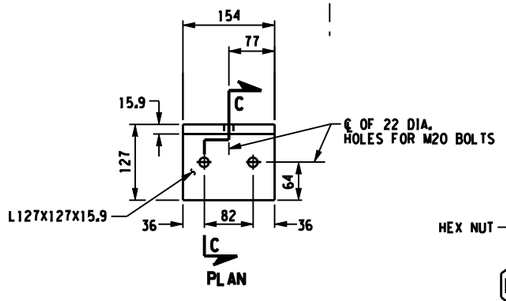
ELEVATION
NOT TO SCALE



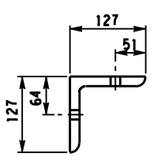
ELEVATION MATCH A-A
FIVE-RAIL - CURBLESS
NOT TO SCALE



TURNDOWN DETAIL
NOT TO SCALE

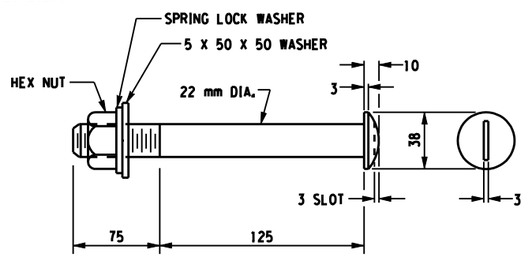


PLAN



SECTION C-C

RAILING ANGLE DETAILS
NOT TO SCALE



ROUND HEAD BOLT
NOT TO SCALE

NOTES:

NOTE "A":
THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE LOWER TUBE FLARE SECTION IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.

NOTE "B":
SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".

NOTE "C":
PAVE THE OPTIONAL MOWING STRIP IN ACCORDANCE WITH THE DETAIL ON DWG. TSG-1. PAYMENT WILL BE MADE UNDER THE PAVED SHOULDER ITEM.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

TRANSITION RAILING DETAILS
SHEET 1 OF 2

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

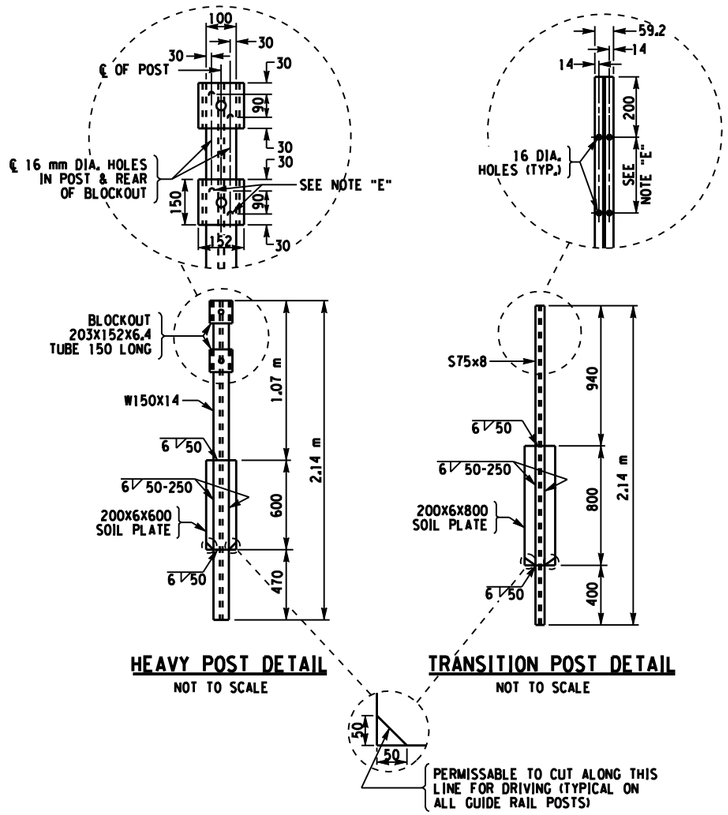
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.DTL.RLG.TRANS.01	ONE	AUGUST 2011	ST-32

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

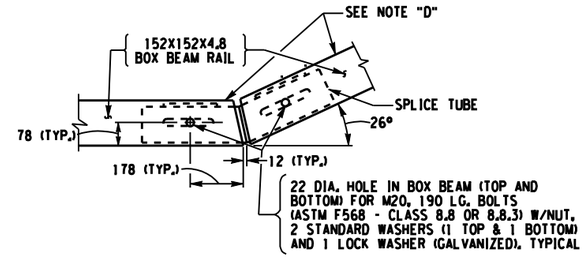
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		198	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

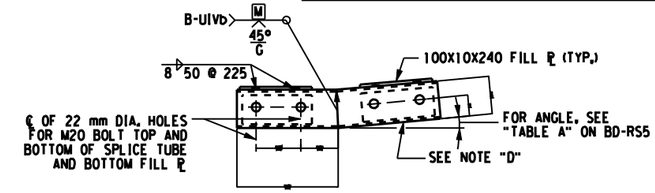


HEAVY POST DETAIL
NOT TO SCALE

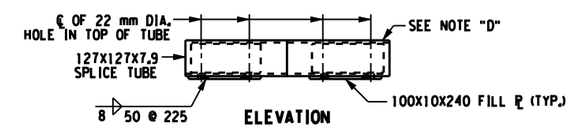
TRANSITION POST DETAIL
NOT TO SCALE



SPLICE DETAIL AT TURN BACK IN LOWER TRANSITION GUIDE RAIL
NOT TO SCALE

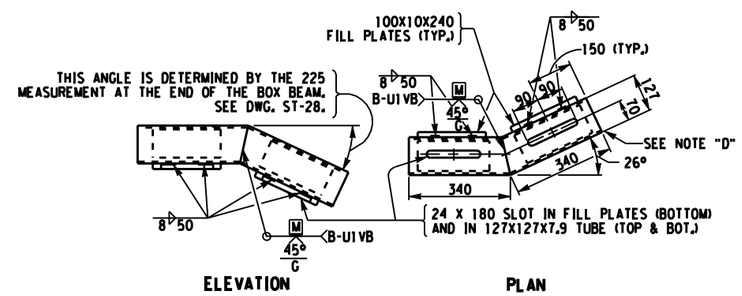


PLAN



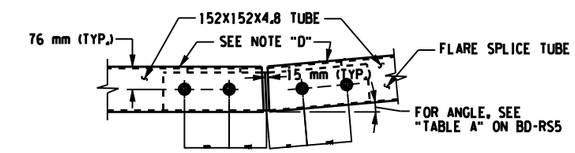
ELEVATION

FLARE SPLICE TUBE DETAIL

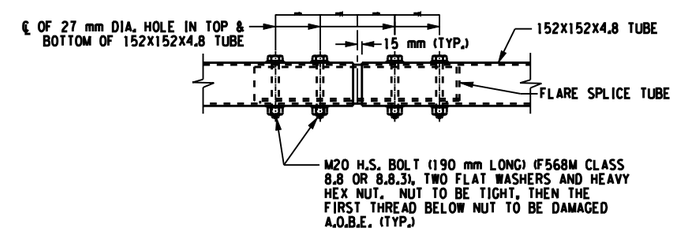


ELEVATION PLAN

SPLICE TUBE DETAIL FOR TURN BACK
NOT TO SCALE

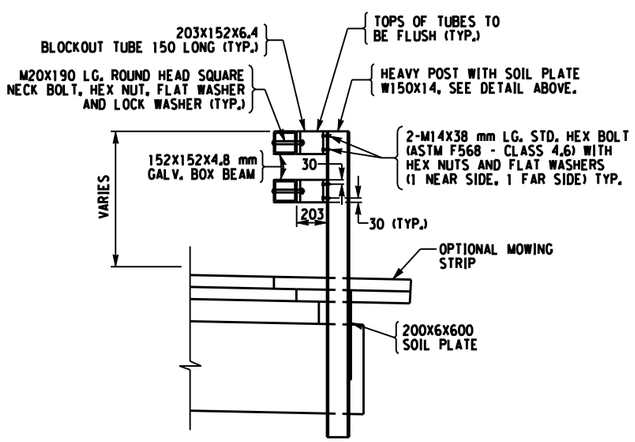


PLAN



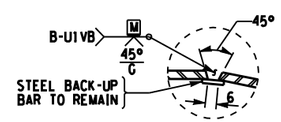
ELEVATION

FLARE SPLICE ASSEMBLY



NOTE:
THE COST OF THE POST WITH SOIL PLATE TO BE INCLUDED IN THE COST OF THE TRANSITION ITEM.

HEAVY POST ELEVATION
NOT TO SCALE



WELD DETAIL FOR SPLICE TUBE
NOT TO SCALE

NOTES:

NOTE "D"
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

NOTE "E":
HOLES IN THE POST FOR THE LOWER RAIL MAY BE LOCATED AND DRILLED IN THE FIELD. IF SO, THE GALVANIZING SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

TRANSITION RAILING DETAILS
SHEET 2 OF 2

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

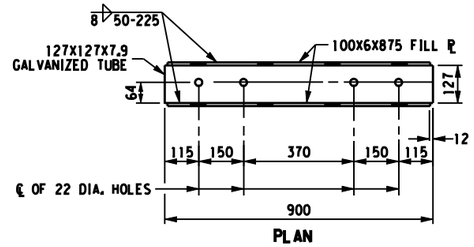
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.DTL.RLG.TRANS.02	ONE	AUGUST 2011	ST-33

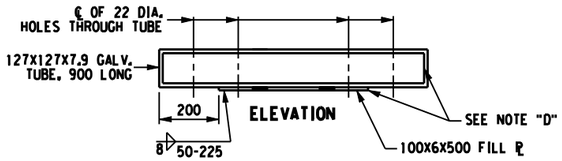
DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY N.K.BINGHAM CHECKED BY K.BALDWIN
DRAFTED BY B. PARKER ESTIMATED BY K. BALDWIN CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

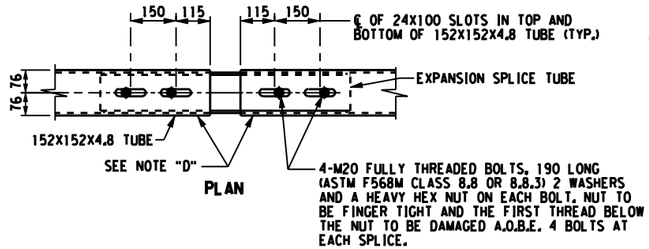
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		199	205

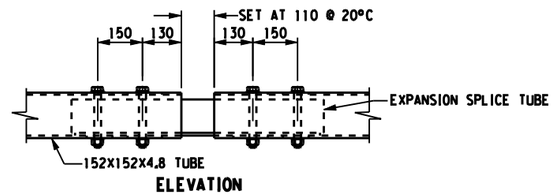
P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



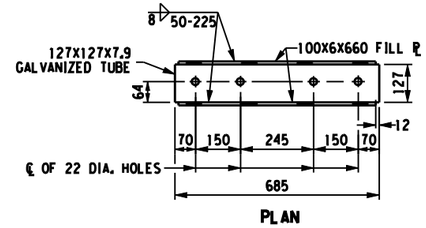


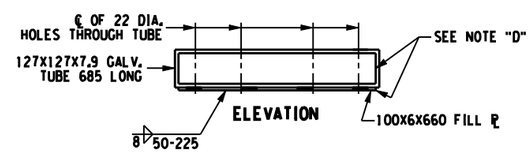
EXPANSION SPLICE TUBE
NOT TO SCALE



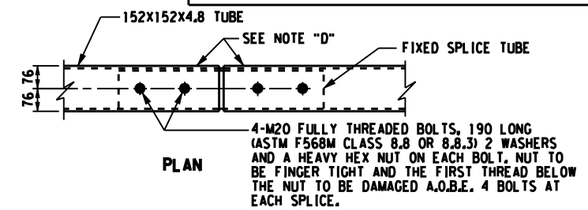


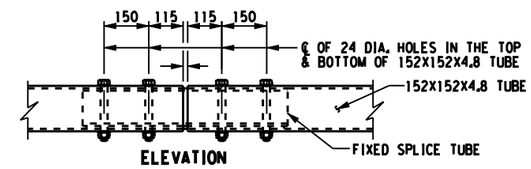
EXPANSION SPLICE ASSEMBLY
NOT TO SCALE



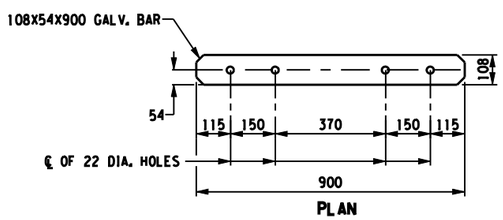


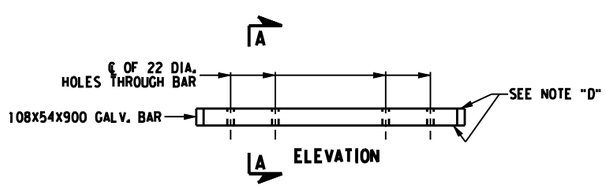
FIXED SPLICE TUBE
NOT TO SCALE



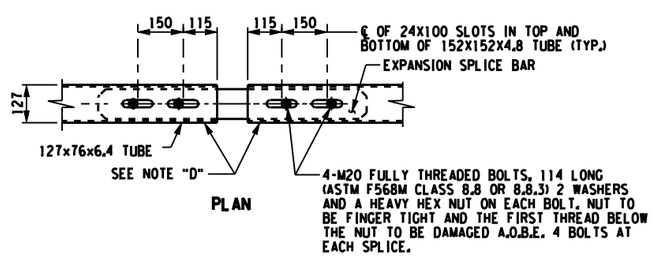


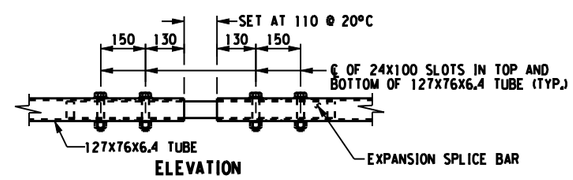
FIXED SPLICE ASSEMBLY
NOT TO SCALE



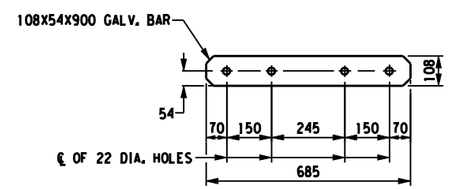


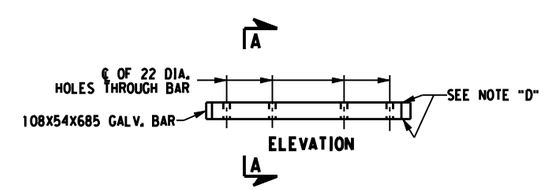
EXPANSION SPLICE BAR
NOT TO SCALE



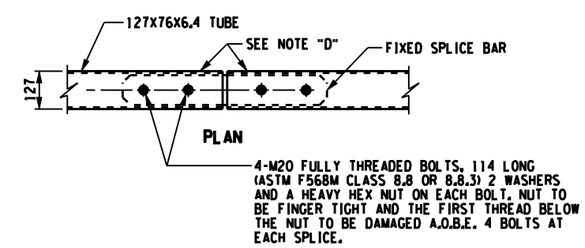


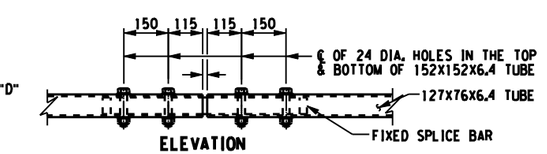
EXPANSION SPLICE ASSEMBLY
NOT TO SCALE



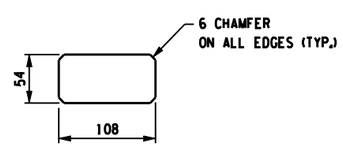


FIXED SPLICE BAR
NOT TO SCALE





FIXED SPLICE ASSEMBLY
NOT TO SCALE



SECTION A-A
NOT TO SCALE

NOTES:

NOTE "D":
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

RAILING SPLICE DETAILS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

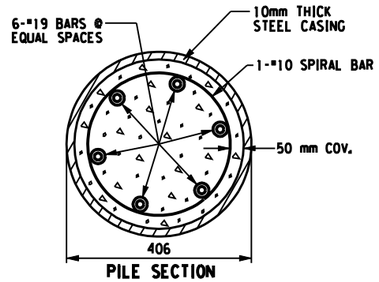
DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB.DTL.RLG.SPL.DGN	ONE	AUGUST 2011	ST-34

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

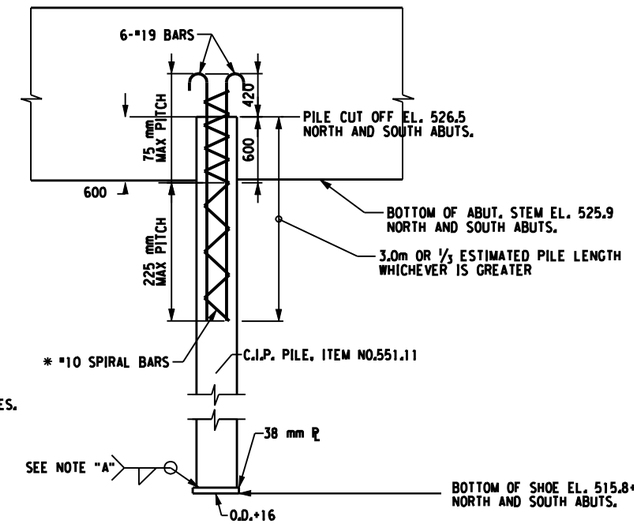
FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		200	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY



PILE SECTION



CAST-IN-PLACE CONCRETE PILE

NOT TO SCALE

PILE ELEVATION

* TWO SEPARATE SPIRAL BARS MAY BE USED, ONE FOR A PITCH OF 75 mm AND THE SECOND FOR A PITCH OF 225 mm. IF TWO BARS ARE USED, A WELDED SPLICE SHALL BE USED. SEE WELDING NOTES.

NOTES:

A "WELDING PROCEDURE SPECIFICATION" (WPS) APPROVED BY THE D.C.E.S. IS REQUIRED.

ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN CONFORMANCE WITH REQUIREMENTS FOR WELDING SPECIFIED IN THE N.Y.S. STEEL CONSTRUCTION MANUAL.

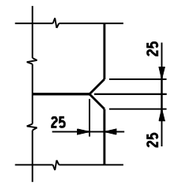
A: SIZE TO BE INDICATED IN THE F.D.R.

B: EITHER JOINT MAY BE USED AT CONTRACTOR'S OPTION.

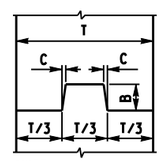
B-UIB: AIR CARBON ARC GOUGE TO SOUND WELD METAL PRIOR TO WELDING THE SECOND SIDE. THE GOUGE SHALL HAVE A 6 mm MINIMUM RADIUS AT THE ROOT WITH THE TOP SLOPED BACK AT 45° MINIMUM.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.

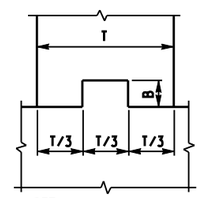


CHAMFER DETAIL
NOT TO SCALE



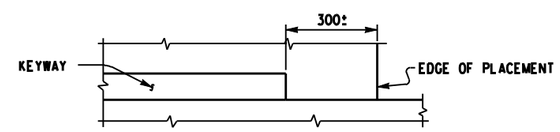
NOTE: WATERSTOP NOT SHOWN.

VERTICAL



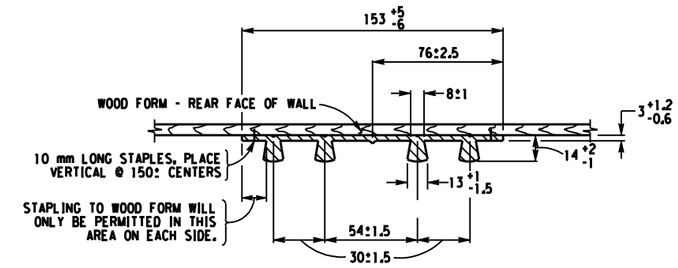
NOTE: WATERSTOP NOT SHOWN.

HORIZONTAL



CONSTRUCTION JOINTS		
C	B	T/3
5	40	0 TO 150
10	90	155 TO 250
20	140	OVER 250

KEYWAY DETAILS
NOT TO SCALE



TYPE D WATERSTOP
NOT TO SCALE

WATERSTOP NOTES:

1. HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.
2. PVC USED IN WATERSTOPS SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-11.
3. WATERSTOP SHALL BE LIGHT GRAY IN COLOR.
4. WATERSTOP SHALL BE SHIPPED IN STRAIGHT SECTIONS HAVING A MINIMUM LENGTH OF 3 METERS UNLESS SHORTER LENGTHS ARE REQUIRED.
5. FIELD SPLICES SHOULD BE AVOIDED IF POSSIBLE. HOWEVER, HEAT WELDED BUTT SPLICES WILL BE PERMITTED ON LONG STRAIGHT RUNS (GENERALLY IN EXCESS OF 15 METERS) AT POINTS APPROVED BY THE ENGINEER.
6. THE COST OF FURNISHING AND PLACING WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS CONCRETE ITEMS.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

MISCELLANEOUS BRIDGE DETAILS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY NY
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_DTL_MIS	ONE	AUGUST 2011	ST-35

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		201	205

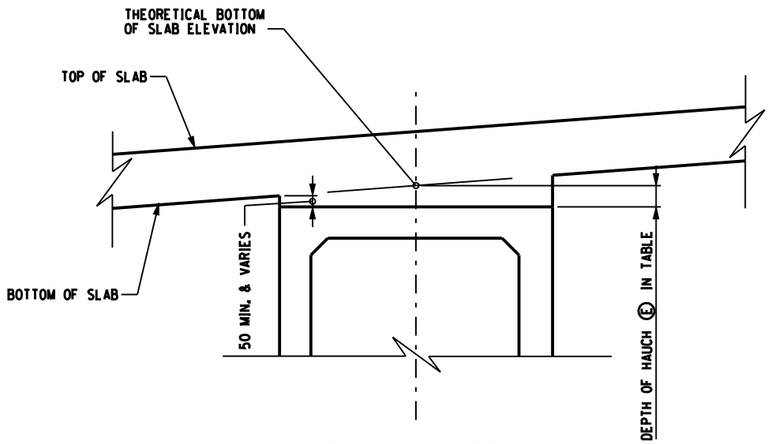
P.I.N. 1754.96

OLD MILITARY ROAD (CR 35)

VILLAGE OF LAKE PLACID

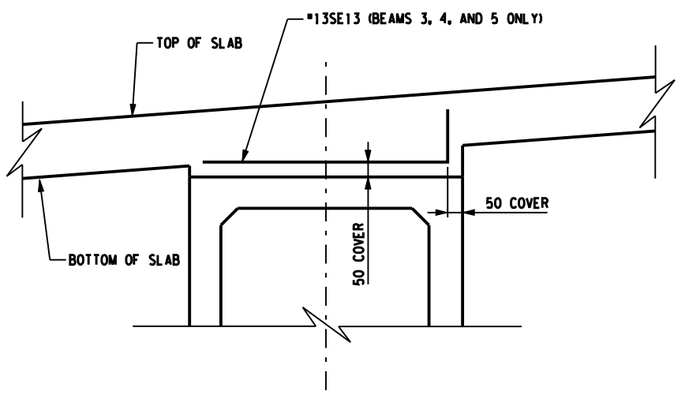
TOWN OF NORTH ELBA

ESSEX COUNTY



BEAM HAUNCH DETAIL

NOTE TO SCALE



HAUNCH REINFORCEMENT DETAIL

NOTE TO SCALE

HAUNCH TABLE		℄ OF BRGS. BEGIN. ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	℄ OF BRGS. BEGIN. ABUT.
GIRDER 1	(A) REQ'D BOTTOM OF SLAB ELEVATION	528.659	528.669	528.679	528.689	528.699	528.709	528.720	528.730	528.740	528.750	528.760
	(B) TOP OF BEAM EL. (FIELD MEASURE)											
	(C) = (A) - (B)											
	(D) CONCRETE + S.D.L. DEFLECTION	0.000	2.93	5.55	7.60	8.90	9.35	8.90	7.60	5.55	2.93	0.000
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (m)											
GIRDER 2	(A) REQ'D BOTTOM OF SLAB ELEVATION	528.657	528.664	528.674	528.684	528.694	528704	528.714	528.724	528.738	528.754	528.771
	(B) TOP OF BEAM EL. (FIELD MEASURE)											
	(C) = (A) - (B)											
	(D) CONCRETE + S.D.L. DEFLECTION	0.000	2.93	5.55	7.60	8.90	9.35	8.90	7.60	5.55	2.93	0.000
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (m)											
GIRDER 3	(A) REQ'D BOTTOM OF SLAB ELEVATION	528.832	528.837	528.843	528.850	528.859	528.869	528.880	528.893	528.907	528.922	528.938
	(B) TOP OF BEAM EL. (FIELD MEASURE)											
	(C) = (A) - (B)											
	(D) CONCRETE + S.D.L. DEFLECTION	0.000	2.93	5.55	7.60	8.90	9.35	8.90	7.60	5.55	2.93	0.000
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (m)											
GIRDER 4	(A) REQ'D BOTTOM OF SLAB ELEVATION	529.006	529.011	529.016	529.023	529.031	529.040	529.051	529.062	529.075	529.090	529.105
	(B) TOP OF BEAM EL. (FIELD MEASURE)											
	(C) = (A) - (B)											
	(D) CONCRETE + S.D.L. DEFLECTION	0.000	2.93	5.55	7.60	8.90	9.35	8.90	7.60	5.55	2.93	0.000
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (m)											
GIRDER 5	(A) REQ'D BOTTOM OF SLAB ELEVATION	529.181	529.185	529.190	529.196	529.203	529.212	529.221	529.232	529.245	529.258	529.273
	(B) TOP OF BEAM EL. (FIELD MEASURE)											
	(C) = (A) - (B)											
	(D) CONCRETE + S.D.L. DEFLECTION	0.000	2.93	5.55	7.60	8.90	9.35	8.90	7.60	5.55	2.93	0.000
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (m)											
GIRDER 6	(A) REQ'D BOTTOM OF SLAB ELEVATION	529.284	529.294	529.304	529.314	529.324	529.334	529.343	529.353	529.362	529.372	529.381
	(B) TOP OF BEAM EL. (FIELD MEASURE)											
	(C) = (A) - (B)											
	(D) CONCRETE + S.D.L. DEFLECTION	0.000	2.93	5.55	7.60	8.90	9.35	8.90	7.60	5.55	2.93	0.000
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (m)											

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

HAUNCH TABLES AND DETAILS

Folt-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_HAUN_TBL	ONE	AUGUST 2011	ST-36

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		202	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

NORTH ABUTMENT REINFORCEMENT (POUR 1)

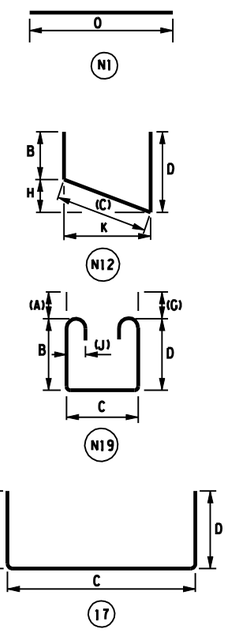
MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
22NA1	12	13.000	N1	474.4														13.000	
22NA2	6	8.200	N1	149.6														8.700	
22NA3	6	8.500	N1	155.1														8.500	
25NA4	5	7.700	N1	153.0															
25NA5	15	3.900	17	232.4		0.000	3.400	0.500											
25NA6	5	4.400	17	87.4		0.000	3.9 AV	0.500											
16NA7	1	10.937	17	17.0		5.000	0.937	5.000											
16NA8	1	15.839	17	24.6		7.240	0.937	7.654											
16NA9	1	10.837	17	16.8		5.100	0.937	4.800											
16NA10	1	5.700	17	8.8		2.175	0.937	2.588											
19NA11	57	3.549	17	452.1		1.287	0.975	1.287											
16NA12	11	4.497	17	76.8		1.76 AV	0.975	1.76 AV											
19NA13	4	3.591	17	32.1		1.287	1.017AV	1.287											
16NA14	4	5.863	17	36.4		2.423	1.017AV	2.423											
19NA15	30	2.853	17	191.3		0.939	0.975	0.939											
19NA16	17	3.531	17	134.2		1.278	0.975	1.278											
16NA17	4	15.800	N1	98.1														15.800	
16NA18	2	4.390	N1	13.6														4.390	
16NA19	6	2.257	17	21.0		0.660	0.937	0.660											
16NA20	2	1.312	N1	4.1														1.312	
16NA21	33	3.775	N19	193.3	0.175	1.525	0.375	1.525			0.175			0.130					
16NA22	15	4.375	N19	101.9	0.175	1.525	0.975	1.525			0.175			0.130					
16NA23	2	3.498	17	10.9		2.398	1.100	0.000											
19NA24	2	3.597	17	16.1		1.287	1.037	1.287											
16NA25	4	4.437	N19	27.5	0.175	1.525	1.037	1.525			0.175			0.130					
SUBTOTAL POUR 1				2,728.4	KG														

NORTH EAST WINGWALL (POUR 2)

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
16NEW1	2	9.035	17	28.0		3.850	0.937	4.248											
16NEW2	4	5.135	17	31.9		1.9 AV	0.937	2.298											
16NEW3	4	4.500	N1	27.9														0.450	
16NEW4	6	2.880	N12	26.8		0.700	1.080	1.100							1.025	0.400			
SUBTOTAL POUR 2				114.7	KG														

NORTH WEST WINGWALL (POUR 3)

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
16NWW1	8	9.047	17	112.3		4.126	0.937	3.850											
16NWW2	11	6.796	17	116.0		2.910	0.975	2.910											
16NWW3	4	8.059	17	50.0		3.521	1.017	3.521											
16NWW4	4	5.695	17	35.4		2.575	0.937	2.177											
16NWW5	15	2.195	17	51.1		0.610	0.975	0.610											
16NWW6	4	5.000	N1	31.0														5.000	
16NWW7	2	2.300	N1	7.1														2.300	
16NWW8	2	4.700	17	14.6		0.000	3.500	1.200											
16NWW9	6	2.880	N12	26.8		0.700	1.080	1.100											
SUBTOTAL POUR 3				444.4	KG														
TOTAL NORTH ABUTMENT				3,287.5	KG														



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

BAR LIST
(SHEET 1 OF 4)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_RBAR.DGN	ONE	AUGUST 2011	ST-37

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY K.BALDWIN
ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY W.SHAW

FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		203	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

SOUTH ABUTMENT REINFORCEMENT (POUR 1)

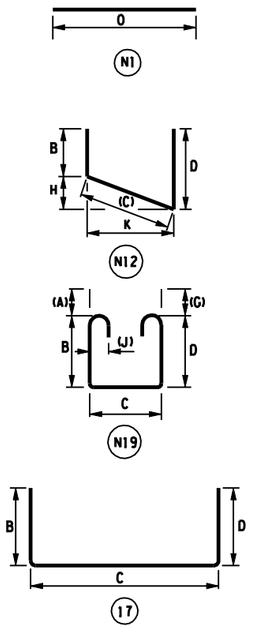
MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
22SA1	12	13.000	N1	474.4														13.000	
22SA2	6	9.200	N1	167.9														9.200	
22SA3	6	8.700	N1	158.7														8.700	
25SA4	5	8.200	N1	162.9														8.200	
25SA5	15	3.900	17	232.4		0.000	3.400	0.500											
25SA6	5	4.575	17	90.9		0.000	4.075AV	0.500											
16SA7	1	10.937	17	17.0		5.000	0.937	5.000											
16SA8	1	16.087	17	25.0		7.350	0.937	7.800											
16SA9	1	10.987	17	17.1		4.800	0.937	5.250											
16SA10	1	5.887	17	9.1		2.250	0.937	2.700											
19SA11	56	3.727	17	466.5		1.376	0.975	1.376											
16SA12	11	4.375	17	74.7		1.70AV	0.975	1.70AV											
19SA13	4	3.769	17	33.7		1.376	1.017AV	1.376											
16SA14	4	5.829	17	36.2		2.406	1.017AV	2.406											
19SA15	30	2.853	17	191.3		0.939	0.975	0.939											
19SA16	17	3.531	17	134.2		1.278	0.975	1.278											
16SA17	2	16.630	N1	51.6														13.630	
16SA18	2	3.900	N1	12.1														3.900	
16SA19	6	2.257	17	21.0		0.610	0.937	0.610											
16SA20	2	1.900	N1	5.9														1.900	
16SA21	33	3.775	N19	193.3	0.175	1.525	0.375	1.525			0.175			0.130					
16SA22	15	4.375	N19	101.9	0.175	1.525	0.975	1.525			0.175			0.130					
16SA23	2	3.206	17	10.0		2.406	0.800	0.000											
19SA24	2	3.822	17	17.1		1.376	1.070	1.376											
16SA25	5	4.470	N19	34.7	0.175	1.525	1.074	1.525			0.175			0.130					
SUBTOTAL POUR 1				2,739.4	KG														

SOUTH EAST WINGWALL (POUR 2)

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
16SEW1	1	9.273	17	14.4		4.364	0.937	3.966											
16SEW2	5	6.222	17	48.3		2.875	0.937	2.410											
16SEW3	4	4.500	N1	27.9														4.500	
16SEW4	6	3.007	N12	28.0		0.700	1.047	1.260				0.469			0.937				
SUBTOTAL POUR 2				118.6	KG														

SOUTH WEST WINGWALL (POUR 3)

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
16SWW1	8	8.517	17	105.7		3.580	0.937	4.000											
16SWW2	10	6.907	17	107.2		2.966	0.975	2.966											
16SWW3	4	8.247	17	51.2		3.611	1.026	3.611											
16SWW4	4	5.973	17	37.1		2.300	0.937	2.736											
16SWW5	14	2.295	17	49.9		0.660	0.975	0.660											
16SWW6	4	4.500	N1	27.9														4.500	
16SWW7	2	2.370	N1	7.4														2.370	
16SWW8	2	4.571	17	14.2		0.000	0.960	3.611											
16SWW9	5	2.976	N12	23.1		0.700	1.056	1.220				0.487		0.937					
16SWW10	2	4.070	N1	12.6														4.070	
SUBTOTAL POUR 3				436.3	KG														
TOTAL SOUTH ABUTMENT				3,294.3	KG														



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

BAR LIST
(SHEET 2 OF 4)

ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

Foit-Albert Associates
Architecture, Engineering and Surveying, P.C.
Hanover Square, 435 New Karner Road
Albany, New York 12205

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*.CPB_RBAR.DGN	ONE	AUGUST 2011	ST-38

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY K.BALDWIN
CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

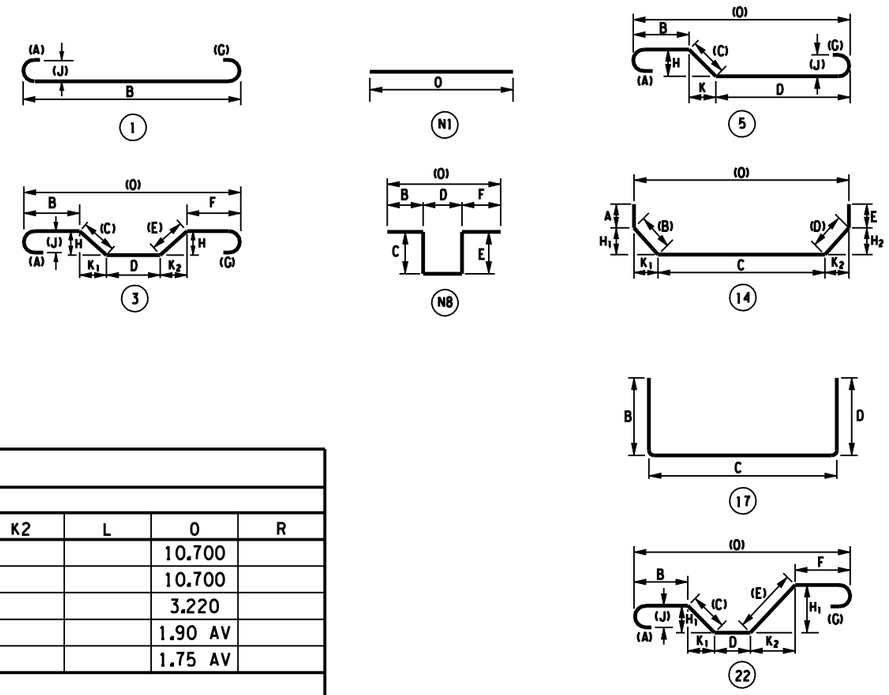
FILE NAME =
DATE/TIME = AUGUST 25, 2011
USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		204	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

SUPERSTRUCTURE SLAB

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
13SE1	55	10.230	3	559.3	0.000	0.000	0.000	0.000	7.960	2.120	0.150	0.586	0.000	0.105	0.000	7.940		10.060	
13SE2	55	6.150	22	336.2	0.150	3.690	0.000	0.000	2.310	0.000	0.000	0.000	0.159	0.105				6.000	
13SE3	54	10.160	22	545.3	0.150	3.690	0.000	0.000	6.320	0.000	0.000	0.000	0.435	0.105				10.000	
13SE4	54	6.160	3	330.6	0.000	0.000	0.000	0.000	3.950	2.060	0.150	0.290	0.000	0.105	0.000	3.940		6.000	
13SE5	55	9.140	14	499.7	0.000	7.080	2.060	0.000	0.000			0.520	0.000		7.060	0.000		9.120	
13SE6	55	7.000	14	382.7	0.000	0.000	3.690	3.310	0.000		0.000	0.000	0.228			3.310		7.000	
13SE7	55	7.120	14	389.3	0.000	5.060	2.060	0.000	0.000			0.373	0.000		5.060	0.000		7.120	
13SE8	55	9.010	14	492.6	0.000	0.000	3.690	5.320			0.000	0.000	0.369			5.310		9.000	
19SE9	110	2.203	1	541.6	0.203	2.000					0.000			0.152				2.000	
13SE10	8	8.150	1	64.8	0.150	8.000					0.000			0.105				8.000	
13SE11	262	10.700	N1	2,786.6														10.700	
16SE12	28	10.900	N1	473.7														10.900	
13SE13	123	1.600	N8	195.6		0.230	0.150	1.220	0.000	0.000								1.450	
13SE14	8	17.000	N1	135.2														17.000	
19SE15	10	17.000	N1	380.0														17.000	
16SE16	132	2.875	5	589.0	0.175	0.900	1.800	0.000			0.000	0.680		0.000	1.650			2.550	
16SE17	66	2.175	17	222.8		0.900	0.375	0.900											
16SE18	39	2.825	17	171.0		0.900	1.025	0.900											
19SE19	24	2.900	N1	155.6														2.900	
19SE20	60	0.950	N1	127.4														0.950	
16SE21	54	0.930	17	77.9		0.300	0.330	0.300											
16SE22	59	0.880	17	80.6		0.300	0.280	0.300											
16SE23	70	1.050	1	114.1	0.175		0.700				0.175							1.050	
TOTAL				9652	KG														



SHARED USE PATH REINFORCEMENT

SUPERSTRUCTURE SHARED USE PATH

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
13SWE1	20	10.700	N1	212.72														10.700	
16SWE2	6	10.700	N1	99.64														10.700	
13SWE3	63	3.220	N1	201.64														3.220	
13SWE4	4	1.900	N1	7.55							"O" VARIES FROM 0.80 TO 3.00							1.90 AV	
13SWE5	5	1.750	N1	8.70							"O" VARIES FROM 0.60 TO 2.90							1.75 AV	
TOTAL				530.25	KG														

NORTH APPROACH SLAB SHARED USE PATH

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
13SWE1	16	3.220	N1	51.21														3.220	
16SWE2	5	1.760	N1	13.66							"O" VARIES FROM 0.30 TO 3.22							1.76 AV	
13SWE3	5	1.810	N1	9.00							"O" VARIES FROM 0.40 TO 3.22							1.81 AV	
13SWE4	10	6.500	N1	64.61														6.500	
16SWE5	3	6.551	N1	30.50														6.551	
16SWE6	2	3.511	N1	10.90														3.571	
TOTAL				179.87	KG														

SOUTH APPROACH SLAB SHARED USE PATH

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
13SWE1	16	3.220	N1	51.21														3.220	
13SWE2	6	1.835	N1	10.94							"O" VARIES FROM 0.45 TO 3.22							1.835 AV	
13SWE3	5	1.675	N1	8.32							"O" VARIES FROM 0.60 TO 2.75							1.675 AV	
13SWE4	10	6.704	N1	66.64														6.704	
16SWE5	3	6.571	N1	30.59														6.571	
16SWE6	2	3.700	N1	11.48														3.700	
TOTAL				179.20	KG														

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BAR LIST
(SHEET 3 OF 4)

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ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME	REGION	DATE	DRAWING NO.
*_CPB_RBAR.DGN	ONE	AUGUST 2011	ST-39

DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN

FILE NAME = DATE/TIME = AUGUST 25, 2011 USER =

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		205	205

P.I.N. 1754.96
OLD MILITARY ROAD (CR 35)
VILLAGE OF LAKE PLACID
TOWN OF NORTH ELBA
ESSEX COUNTY

APPROACH SLABS

NORTH APPROACH SLAB

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
16HE1	18	0.930	17	26.0		0.300	0.330	0.300											
16HE2	21	0.880	17	28.7		0.300	0.280	0.300											
16HE3	21	7.000	14	228.1	0.000	0.000	3.690	3.310	0.000				0.228			3.310		7.000	
16HE4	21	8.010	14	261.1	0.000	6.510	1.500	0.000	0.000			0.480			6.500			8.000	
•16H5	21	7.000	14	228.1	0.000	0.000	3.690	3.310	0.000				0.228			3.310		7.000	
•16H6	21	8.010	14	261.1	0.000	6.510	1.500	0.000	0.000			0.480			6.500			8.000	
16HE7	73	6.500	N1	736.4														4.130	
•16H8	71	6.850	1	754.8	0.175						0.175			0.130				4.130	
16HE9	8	1.220	N1	15.1														1.220	
16HE10	4	1.950	N17	12.1		0.600	1.350	0.000	0.000			0.955			0.955			1.550	

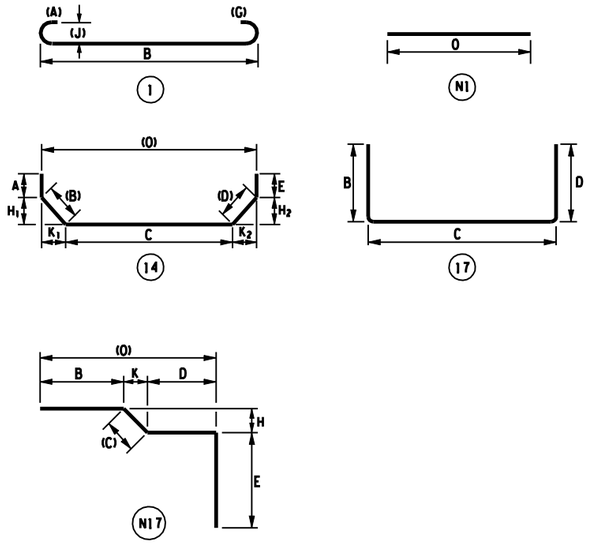
TOTAL NORTH APPROACH EPOXY BARS: 1308 KG, • PLAIN BARS: 1245 KG

SOUTH APPROACH SLAB

MARK	NO.	LENGTH	TYPE	WT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
16HE1	19	0.930	17	27.4		0.300	0.330	0.300											
16HE2	22	0.880	17	30.0		0.300	0.280	0.300											
16HE3	21	7.110	14	231.7	0.000	0.000	3.800	3.310	0.000				0.228			3.310		7.110	
16HE4	21	8.110	14	264.3	0.000	7.310	1.500	0.000	0.000			0.538			7.300			8.800	
•16H5	21	7.110	14	231.7	0.000	0.000	3.800	3.310	0.000				0.228			3.310		7.110	
•16H6	21	8.110	14	264.3	0.000	0.000	1.500	0.000	0.000			0.538			7.300			8.800	
16HE7	73	6.600	N1	747.8														6.600	
•16H8	71	6.950	1	765.8	0.18						0.175			0.130				6.600	
16HE9	8	1.220	N1	15.1														1.220	
16HE10	4	2.050	N17	12.7		0.700	1.350	0.000	0.000			0.955			0.955			1.550	

TOTAL SOUTH APPROACH EPOXY BARS: 1330 KG, • PLAIN BARS: 1262 KG

TOTAL APPROACH SLABS: EPOXY BARS: 2638 KG, • PLAIN BARS: 2507 KG



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DESIGN SUPERVISOR W. SHAW JOB MANAGER K. BALDWIN DESIGNED BY K.BALDWIN CHECKED BY K.BALDWIN
CHECKED BY W.SHAW ESTIMATED BY K. BALDWIN DRAFTED BY B. PARKER CHECKED BY K.BALDWIN
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