PROJECT LOCATION



# CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS FROM NY 9/74 TO NY 9N/22 TOWN OF TICONDEROGA, ESSEX COUNTY MARCH 4, 2019

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, 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 (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL."

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDELINES AND THE FINAL DESIGN REPORT APPROVED ON 2/1/2018.

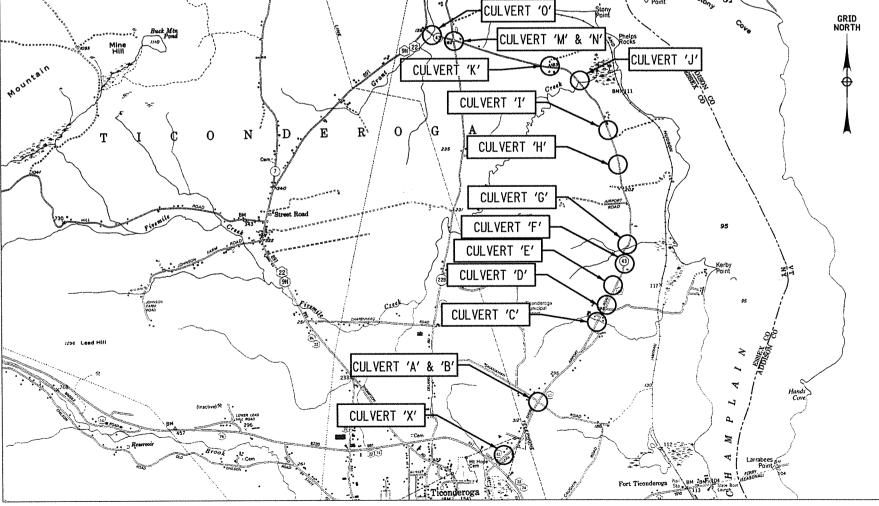
PREPARED AND RECOMMENDED BY:

28 SHEETS

PIN 1760.63 / D036169

ESSEX COUNTY

CONTRACTOR'S NAME			
AWARD DATE		— Mi	Buck Mtn Pond
COMPLETION DATE		- Mountain	
FINAL ACCEPTANCE DATE		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ge"
REGIONAL DIRECTOR		Tight park	1 ¢ 0
FINAL COST TOTAL		- low	
FISCAL SHARE	COST(S)		
		730	Firemile
			1 AND THE SOUTH OF
			COMPSON FARE WOAD



CHRISTOPHER C. CORNWELL, P.E., HIGHWAY DESIGN
VICE PRESIDENT

FRED MASTROIANNI, P.E., QA/QC
VICE PRESIDENT

GREENMAN-PEDERSEN, INC.
CONSULTING ENGINEERS

BO WOLF ROAD, SUITE 300
ALBANY, NY 12205

CR 43 SHORE AIRPORT ROAD

DRAINAGE IMPROVEMENTS

TOWN OF TICONDEROGA

ESSEX COUNTY

FED. ROAD REG. NO. STATE SHEET NO.

1 N.Y. 1

CAPITAL PROJECT IDENTIFICATION NO. 1760.63

INDEX ON SHEET NO. 2

APPROVED, BY

CHRIS GARROW, SUPERINTENDENT OF PUBLIC WORKS

ESSEX COUNTY

PROJECT LOCATION
NOT TO SCALE

FILE NAME = ...\176063\_CPH\_IND-1.dgn DATE/TIME = 3/4/2019 + USER = Jgentzler

BK	BACK	_
- ₽	BASELINE	
BRG	BEARING	
<u> </u>	CENTERLINE	
CS	CURVE TO SPIRAL	
е	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	
M.	MAIN LINE	FEE
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	+
	SPIRAL TO TANGENT	+
ST	2. 2	+
STA	STATION	4
T_	TANGENT LENGTH	
TGL	THEORETICAL GRADE LINE	
TS	TANGENT TO SPIRAL	
VC	VERTICAL CURVE	PED
	TOPOGRAPHY (DRAINAGE)	
		-
I ADDD	DESCRIPTION	
ABBR.	DESCUIL LION	
BB		
ВВ	BOTTOM OF BANK (STREAM)	
BB BC	BOTTOM OF BANK (STREAM) BOTTOM OF CURB	
BB BC B0	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING	
BB BC B0 CAP	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE	
BB BC BO CAP CB	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE CATCH BASIN	
BB BC BO CAP CB	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE CATCH BASIN CAST IRON PIPE	
BB BC BO CAP CB CIP © STRM	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE CATCH BASIN CAST IRON PIPE CENTERLINE OF STREAM	
BB BC BO CAP CB CIP © STRM CMP	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE CATCH BASIN CAST IRON PIPE CENTERLINE OF STREAM CORRUGATED METAL PIPE	
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BB BC BO CAP CB CIP © STRM CMP CP CSP CULV DIA DMH DS D'XING EHW	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE CATCH BASIN CAST IRON PIPE CENTERLINE OF STREAM CORRUGATED METAL PIPE CONCRETE PIPE CONCRETE PIPE CORRUGATED STEEL PIPE CULVERT DIAMETER DRAINAGE MANHOLE DRAINAGE STRUCTURE PIPE DITCH CROSSING EXTREME HIGH WATER	
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BB BC BO CAP CB CIP © STRM CMP CP CSP CULV DIA DMH DS D'XING EHW EL ELEV	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE CATCH BASIN CAST IRON PIPE CENTERLINE OF STREAM CORRUGATED METAL PIPE CONCRETE PIPE CONCRETE PIPE CORRUGATED STEEL PIPE CULVERT DIAMETER DRAINAGE MANHOLE DRAINAGE STRUCTURE PIPE DITCH CROSSING EXTREME HIGH WATER ELEVATION	
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BB BC BO CAP CB CIP CSTRM CMP CCP CSP CULV DIA DMH DS D'XING EHW ELEV ELW ES HW INV MH MHW OHW OLW RCP SICPP TB	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE CATCH BASIN CAST IRON PIPE CENTERLINE OF STREAM CORRUGATED METAL PIPE CONCRETE PIPE CONCRETE PIPE CULVERT DIAMETER DRAINAGE MANHOLE DRAINAGE STRUCTURE PIPE DITCH CROSSING EXTREME HIGH WATER ELEVATION ELEVATION EXTREME LOW WATER END SECTION HEADWALL INVERT MANHOLE MEAN HIGH WATER ORDINARY HIGH WATER REINFORCED CONCRETE PIPE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE TOP OF BANK (STREAM)	
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BB BC BO CAP CB CIP CSTRM CMP CP CSP CULV DIA DMH DS D'XING EHW EL ELEV ELW ES HW INV MH MHW OHW OL W RCP SICPP TB TC TG	BOTTOM OF BANK (STREAM) BOTTOM OF CURB BOTTOM OF OPENING CORRUGATED ALUMINUM PIPE CATCH BASIN CAST IRON PIPE CENTERLINE OF STREAM CORRUGATED METAL PIPE CONCRETE PIPE CONCRETE PIPE CULVERT DIAMETER DRAINAGE MANHOLE DRAINAGE STRUCTURE PIPE DITCH CROSSING EXTREME HIGH WATER ELEVATION ELEVATION ELEVATION HEADWALL INVERT MANHOLE MEAN HIGH WATER ORDINARY HIGH WATER ORDINARY HOW WATER SINFORCED CONCRETE PIPE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE TOP OF BANK (STREAM) TOP OF CURB	
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ALIGNMENT

	/ILIONWENT		101 0011/11 111 1111200222271120007				<u> </u>
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION		ABBR.	DESCRIPTION	
AH	AHEAD	ABUT	ABUTMENT		Е	ELECTRIC	
AZ	AZIMUTH	AOBE	AS ORDERED BY ENGINEER		EMH	ELECTRIC MANHOLE	
ВК	BACK	ASPH	ASPHALT		G	GAS	
B	BASELINE	BDY	BOUNDARY		GP	GUY POLE	
BRG	BEARING	BLDG	BUILDING		GSB	GAS SERVICE BOX (HOUS	SE LINE)
C	CENTERLINE	ВМ	BENCH MARK		GV	GAS VALVE (MAIN LINE)	
cs	CURVE TO SPIRAL	СС	CENTER TO CENTER		HYD	HYDRANT	
е	SUPERELEVATION RATE (CROSS SLOPE)	CONC	CONCRETE		LP	LIGHT POLE	
EQ	EQUALITY	CONST	CONSTRUCTION		LPG	LOW PRESSURE GAS	
EXT	EXTERNAL	CR	COUNTY ROAD		PP	POWER POLE	
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTANCE		SA	SANITARY SEWER	
HSD	HEADLIGHT SIGHT DISTANCE	DM	DIRECT MEASUREMENT		SMH	SANITARY MANHOLE	
L	LENGTH OF CIRCULAR CURVE	DWY	DRIVEWAY		ST	STORM SEWER	
LS	LENGTH OF SPIRAL	EP	EDGE OF PAVEMENT		Т	TELEPHONE	
LVC	LENGTH OF VERTICAL CURVE	ES	EDGE OF SHOULDER		TCB	TRAFFIC CONTROL BOX	
E	CENTER CORRECTION OF VERTICAL CURVE	FEE	FEE ACQUISITION		TELBOX	TELEPHONE BOX	
M	MAIN LINE	FEE WO/A	FEE ACQUISITION WITHOUT ACCESS		TEL P	TELEPHONE POLE	
PC	POINT OF CURVATURE	FP	FENCE POST		TMH	TELEPHONE MANHOLE	
PI	POINT OF INTERSECTION	FD	FOUNDATION		CTV	CABLE TELEVISION	
POL	POINT ON LINE	FL	FENCE LINE		W	WATER	
PSD	PASSING SIGHT DISTANCE	GAR	GARAGE		WSB	WATER SERVICE BOX (H)	DUSE LINE)
PT	POINT OF TANGENT	GR	GRAVEL		WV	WATER VALVE (MAIN LIN	IE)
PVC	POINT OF VERTICAL CURVE	но	HOUSE			CURCUREAGE EV	N ADATION.
PVI	POINT OF VERTICAL INTERSECTION	HWY	HIGHWAY			SUBSURFACE EXF	PLORATION
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OR IRON PIPE		ABBR.	DESCRIPTION	
R	RADIUS	МВ	MAILBOX				
SC	SPIRAL TO CURVE	MON	MONUMENT		REP	LACE ABBREVIATION "A	B" WITH:
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND WASHER		AH	HAND AUGER	
ST	SPIRAL TO TANGENT	OG	ORIGINAL GROUND		CP	CONE PENTROMETER	
STA	STATION	0/H	OVERHEAD		DA	21/4 INCHES CASED DRILL	HOLE
T	TANGENT LENGTH	Р	PARCEL		DM	DRILLING MUD	
TGL	THEORETICAL GRADE LINE	PAV'T	PAVEMENT		DN	4 INCHES CASED DRILL	HOLE
TS	TANGENT TO SPIRAL	PE	PERMANENT EASEMENT		FH	HOLLOW FLIGHT AUGER	
VC	VERTICAL CURVE	PED POLE	PEDESTRIAN POLE		PA	POWER AUGER	
	TOPOGRAPHY (DRAINAGE)	PL	PROPERTY LINE		PH	PROBE	
		POR	PORCH		PT	PERCOLATION TEST HOL	E
ABBR.	DESCRIPTION	RR	RAILROAD		RP	1 INCH SAMPLER (RETRA	ACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RTE	ROUTE			TO BE DEFINED AT THE	TIME OF EXPLORATION
BC	BOTTOM OF CURB	ROW	RIGHT OF WAY		SP	SEISMIC POINT	
BO	BOTTOM OF OPENING	RW	RETAINING WALL		TP	TEST PIT	
CAP	CORRUGATED ALUMINUM PIPE	SH	STATE HIGHWAY		ABBREVI	ATION "C" IN CATEGORI	ES:
СВ	CATCH BASIN	SHLDR	SHOULDER		DA, DM,	DN, AND FH WITH:	
CIP	CAST IRON PIPE	SPK	SPIKE		В	BRIDGE	
© STRM	CENTERLINE OF STREAM	ST	STREET		С	CUT	
CMP	CORRUGATED METAL PIPE	STK	STAKE		D	DAM	
CP	CONCRETE PIPE	STY	STORY		F	FILL	
CSP	CORRUGATED STEEL PIPE	SW	SIDEWALK		K	CULVERT	
CULV	CULVERT	TE	TEMPORARY EASEMENT		W	WALL	
DIA	DIAMETER	T0	TEMPORARY OCCUPANCY		Х	TO BE USED IF ONE OF BE DEFINED AT THE TI	THE ABOVE CANNOT
DMH	DRAINAGE MANHOLE	U/G	UNDERGROUND			BE DEFINED AT THE TI	ME THE EXPLORATION
DS	DRAINAGE STRUCTURE PIPE	WW	WING WALL			13 MADE	
D'XING	DITCH CROSSING						
EHW	EXTREME HIGH WATER		[	STANDARI	1110	M DAVMENT HNIT.	EQUIVALENT
EL	ELEVATION	1		STANDAKI SYMBOL		M PAYMENT UNIT: TIMATE OF	NOMENCLATURE:
		1		JIMDUL	[3	ITMWIE OL	INUMERICLATURES

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

TOPOGRAPHY (MISCELLANEOUS)

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
П	-	INCHES
,	LF	LINEAR FEET
mi	MI	MILES
f†²	SF	SQUARE FEET
YD <sup>2</sup>	SY	SQUARE YARD
AC	AC	ACRES
YD3	CY	CUBIC YARD
GAL	GAL	GALLON
lb	LB	POUND
TON	TON	TON

TOWN OF TICONDEROGA

COUNTY: ESSEX

CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS

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.

PIN: 1760.63

UTIL QLVL = D

BRIDGES

CULVERTS

UTILITIES

	INDEX	TOTAL NUMBER OF SH	EETS 28
SHEET NUMBER	DESCRIPTION		DRAWING NUMBER
1	TITLE SHEET		COVER
2	INDEX AND ABBREVIATIONS		INDEX
3-4	LEGEND, LINE AND POINT SYMBOLOGY		LEG-1 TO LEG-2
5	GENERAL NOTES		GNN-1
6-7	WORK ZONE TRAFFIC CONTROL PLANS		WZTC-1 TO WZTC-2
8-10	MISCELLANEOUS TABLES AND DETAILS		MTD-1 TO MTD-3
11-22	GENERAL PLANS		GNP-1 TO GNP-12
23-27	PROFILES		PR0-1 T0 PR0-5
28	ESTIMATE OF QUANTITIES		E0Q-1

#### LIST OF STANDARD SHEETS:

203-01, 204-01, 209-01, 209-02, 209-05, 209-06, 209-07, 603-02, 619-01, 619-02, 619-04, 619-10, 619-11, 619-12, 619-20, 619-21, 619-30, 619-60, 619-61



ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

INDEX AND ABBREVIATIONS

CONTRACT NUMBER

D036169

DRAWING NO. IND-1 SHEET NO. 2

RIER, TEMPORARY RIER, TEMPORARY, W/ WARNING HTS WINNELIZING DEVICE REMENT MARKING REMOVAL OR RERING  DESCRIPTION DUIT, UNDERGROUND DUIT, HANGING DUIT, OVERHEAD STRIC LINE, UNDERGROUND
DESCRIPTION OUIT, HANGING DUIT, OVERHEAD
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THIS LINE, UNDERGROUND
CTRIC LINE, HANGING
CTRIC LINE, OVERHEAD
CTRIC TRANSMISSION, OVERHEAD
CTRIC, SUBSTATIONS
R OPTIC, UNDERGROUND
R OPTIC, HANGING
R OPTIC, OVERHEAD
UNDERGROUND
HANGING
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RM CABLE, UNDERGROUND
RM CABLE, HANGING
LINE, UNDERGROUND
LINE, HANGING
, BRACE, PUSH BRACE
GUY WIRE
TARY SEWER, UNDERGROUND
TARY SEWER, HANGING
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COUNTY: ESSEX

FILE NAME = ...\J76863\_CPH\_LEG-1.dgn
DATE/TIME = 3/4/2019
USER = Jgentzler
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DESIGN SUPERVISOR F. MASTROIANNI

REGION: 1 GPI GREENMAN-PEDERSEN, INC.
CONSULTING ENGINEERS

SHEET NO. 3

**ALIGNMENT** DRAINAGE ITS **ROW MAPPING** SIGNS UTILITIES CELL **CELL** NAME DESCRIPTION CELL NAME CELL NAME DESCRIPTION **CELL** DESCRIPTION CELL NAME DESCRIPTION DESCRIPTION NAME NAME DESCRIPTION CENTER OF CURVATURE  $\oplus$ +DINV INVERT -⟨⟨⟩ IANT\_P ANTENNAS 0 MDL1P DEED LINE, TYPE 1 <del>-</del> SINGLE POST  $\mathbb{E}$ UEB ELECTRIC, BOX ACOGO 0 S\_P SINGLE POST, PROPOSED Ε ELECTRIC, METER STRUCTURE, RECTANGULAR IASCTS ACCOU, SPEED/COUNT SNSR.S MDL2P DEED LINE. TYPE 2 UEM DS 0 ACS CURVE TO SPIRAL P 3 SB F BACK TO BACK, PROPOSED Œ) ELECTRIC, MANHOLE CABINET & PAD UEMH ICABPAD MDI 3P DEED LINE, TYPE 3 DSI STRUCTURE, INVERT Δ ADPI\_P 4 ₩ DETOUR, POINT OF INTERSECT. ELECTRIC, POLE, TRANS. ICCTV CCTV SITE MDL 4P DEED LINE, TYPE 4 UEPT DSM STRUCTURE, MANHOLE )CDPD( 0 ADPL\_P DETOUR, POINT ON LINE ICDPD CDPD TRANSCEIVER **5** MDL5P DEED LINE, TYPE 5  $\bigoplus$ UGM GAS, METER SPM PARKING METER 0 STRUCTURE, MANHOLE, DSMTXX\_P  $\odot$ AEQN 0 **ICELL** CELL PHONE TOWER MEEP EASEMENT, EXISTING RFMSRM REFERENCE MARKERS (G) UGMH GAS. MANHOLE "XX" = 48, 60, 72, 96 **(A)** AEQNAHD EQUATION AHEAD (A) SRSC3 SHLD, CTY, 123 DIG **-⟨Ĝ>**-GAS, LINE MARKER **ICJB** CONDUIT JACK OR BORING MEPAP\_F EASEMENT, PERM., APPROX. STRUCTURE, ROUND DSR ® **AEQNBK EQUATION BACK** 0 SRSC4 SHLD, CTY, 4 DIG. FP UGP GAS/FUEL PUMP  $\boxtimes$ TONTI CAR CONTROLLER CABINET MEPP P EASEMENT, PERM., BACK LINE STRUCTURE, RECT., WITH CURB TYPE "X"
"X" = F, G, N, O, P, R  $\odot$ **AEVT EVENT STATION** DST"X"CB I  $\bigcirc$ 0 SRSCT2 ICPB COMMUNICATION PULL BOX MEPSP\_F EASEMENT, PERM., SHAPE SHLD, CTY TOUR, 1-2 DIG. ₩ UGV GAS, VALVE (0) APC POINT OF CURVATURE  $-\otimes$ ICTD CONDUIT TURNING DOWN ♦ MFAP P FEE ACQUISITION, APPROX. SRSCT4 SHLD, CTY TOUR, 3-4 DIG. (XIO) GAS. VENT STRUCTURE, RECT., TYPE "X" POINT OF COMPOUND CURVATURE "X" = I, K, L, M, O, P, U  $\odot$ APCC SRSI (·)→ ULP LIGHTING, POLE **-**⊙ ICTU CONDUIT TURNING UP **۞** MFP\_P FEE ACQUISITION, BACK LINE SHLD. INTERSTATE )Ó. API POINT OF INTERSECTION **�** Δ **ICVTRT** COMM. VEH. ROAD TRANSCEIVER MFSP\_F FEE ACQUISITION, SHAPE SRSN2 SHLD, NATIONAL, 2 DIG. ULPM LIGHTING, POLE, MEDIAN **ENVIRONMENTAL**  $\Box$ Α APOB POINT OF BEGINNING **IDEFAULT** DEFAULT XX MHBAP HIGHWAY BNDRY., APPROX. SHLD, NATIONAL, 3 DIG. ULPP LIGHTING, POLE, PED. CULV STR., INLET, OUTLET PROT.  $\odot$ AP0C POINT OF CURVATURE ΕZ • ٥ SRSS2 SHLD, STATE, 2 DIG. UMFC MISC. FILLER CAP IEZR F-7PASS READER MHBCP HISTORICAL, BLDG. CORNERS (GB) APOE POINT OF END **X** Δ **IEZTR** TRANSMITTAL READER MHBF HIGHWAY BNDRY, PT. SRSS3 SHLD, STATE, 3 DIG **-**� **UOL M** OIL, LINE MARKER EIPGB\_P STR., INLET PROT., GRAVEL BAG AP0L POINT ON LINE **(**  $\bigcirc$  $\odot$ **IFOXCAB** SRSS4 SHLD, STATE, 4 DIG.  $\bigcirc$ POLE, WITH UTILITY FIBER OPTIC X-CONNECT CABINET MJCP PT., JURIS, CITY H/S EIPHS\_P STR., INLET PROT., HAY/STRAW  $\odot$ APOS POINT ON SPIRAL **③** MPBC PT. BUILDING CORNER POLE, DEAD (NO UTILITY) IFUSSPL  $\odot$ LIPD FUSION SPLICE TRAFFIC CONTROL  $\odot$ 0 APOT POINT ON TANGENT PRFB 88 IHARADV HAR ADVISORY SIGN MPCC PT., CROSS CUT UPL POLE, WITH LIGHT EIPP\_P STR., INLET PROT., PREFAB. TCBJ BOX. JUNCTION POINT ON VERTICAL CURVE 一一一 APOVC **IHARST** HAR SITE MPDH PT., DRILL HOLE (3) USME SANITARY SEWER MANHOLE  $\wedge$ TCBP BOX, PULL BOX (SF) EIPSF\_P STR., INLET PROT., SILT FENCE  $\overline{\sim}$ APOVT POINT ON VERTICAL TANGENT \* P Α HTR ILC LOAD CENTER MPF PT., FENCE LOCATION TELEPHONE, BOOTH **TCBS** BOX. SPLICE APORC POINT ON REVERSE CURVE 0 -�-UTLM TELEPHONE, LINE MARKER IMECSPL MECHANICAL SPLICE MPIP PT., IRON PIPE **ERCB** RISER, CONCRETE BOX TCMC MICROCOMPUTER CABINET 0 APT POINT OF TANGENCY PM )  $\odot$ (7) HTMH MPTE TELEPHONE, MANHOLE TMSCS PORT, SPEED & COUNT SENSOR PT., IRON ROD  $\triangle$ TRAP, SEDIMENT TCPP PED POLE **(** POINT OF VERTICAL CURVATURE APVC [M]IMSCTS MICRO SPEED & COUNT SENSOR MPM PT., MONUMENT -♦>-UTVLM CABLE TV, LINE MARKER WETLAND FLAG TCSH SIGNAL HEADS  $\blacksquare$ APVCC POINT OF VERT. CMPND CURVE CABLE TV, PULL BOX Δ :(M): IMT MICROWAVE TRANSCEIVER мРММ PT., MONUMENT, MISC. UTVPB  $\odot$ TCSP SIGNAL POLE GEOTECHNICAL **APVI** POINT OF VERT. INTERSECTION VMS Q PT., NAIL  $\Box$ UUB TOVHVMS PERM. OVERHEAD VMS MPN UNKNOWN, BOX TRAFFIC WORK ZONE POINT OF VERT. REVERSE CURVE  $\Theta$ GDH DRILL HOLE APVRC \* Δ PA ) **IPASCS** PORT. ACCOU. SPD & CNT. SENSOR MPRS PT., RAILROAD SPIKE  $\boxtimes$ UNKNOWN, JUNCTION BOX UUJB **(** APVT POINT OF VERTICAL TANGENCY **IPEDS** PEDESTRIAN SIGNAL HEAD 斑 MPSP PT., SPIKE TW7AP P ARROW PANEL  $\otimes$ UNKNOWN. MANHOLE UUMH LANDSCAPE 0 ASC SPIRAL TO CURVE  $\Diamond$ **IPSS MPST** PT., STAKE TW7APC P PAVEMENT SURFACE SENSOR ARROW PANEL, CAUTION MODE **UUPB** UNKNOWN, PULL BOX LELS ELEVATION. SPOT ASPI SPIRAL POINT OF INTERSECTION PVMS ⊗ MPTW PT., TREE W/ WIRE ••• TWZAPT\_P ARROW PANEL, TRAILER OR SUPPORT Λ **IPVMS** UUVL UNKNOWN, VALVE LFP FLAG POLE SPIRAL TO SPIRAL +  $\odot$ ASTS IRM PT., WALL LOCATION BARRICADE (TYPE III) TWZBCD\_P  $\infty$ RAMP METER UUVT UNKNOWN, VENT MAILBOX  $\otimes$ AST SPIRAL TO TANGENT △ RWIS **IRWIS** RDWY WEATHER INFO. SENSOR TWZCMS\_P CHANGEABLE MESSAGE SIGN (PVMS) 0 UUW UNKNOWN, WELL ROW ACQUISITION PAPER BOX LPB  $\otimes$ ATS TANGENT TO SPIRAL × ISP TWZFLG\_P  $\alpha$ \_ LIWE WATER, FIRE HYDRANT 0 **LPST** POST, SINGLE MFS\_P\_T FEE ACQUISITION VERTICAL EVENT POINT AVEVT :(\$\$): Δ ISST SPREAD SPECT. TRANSCEIVER TWZFT\_P FLAG TREE W UWM WATER, METER (I) LRB ROCK, BOULDER IMPACT ATTENUATOR /  $\odot$ AVHTGH VERTICAL HIGH POINT ITDB TELEPHONE DEMARCATION BLK TWZIA\_P W UWMH WATER, MANHOLE CRASH CUSHION (TEMPORARY) MEPS\_P\_T | EASEMENT, PERMANENT 米 LSHC SHRUB, CONIFEROUS  $\odot$ AVLOW VERTICAL LOW POINT ITP SUBSURFACE TEMP. PROBE LUMINAIRE (TEMPORARY) UWV WATER, VALVE ()LSHD SHRUB, DECIDUOUS METS\_P\_T EASEMENT, TEMPORARY **®** VEHICLE TO RDWY TRANSCEIVER ⇒> TW7SDT P SYMBOL, DIRECTION OF TRAFFIC HWW WATER, WELL IVTRT BRIDGE 崇 LTC TREE, CONIFEROUS SYMBOL, DIRECTION OF TEMPORARY IWIMD WEIGHT IN MOTION DETECTOR TWZSDTD\_F W/M METS\_P\_ OCCUPANCY. TEMPORARY RAFFIĆ DETOUR BRIDGE, SCUPPER BSC LTD TREE, DECIDUOUS )www. TWZSGN\_P SIGN (TEMPORARY TWVR WIRELESS VIDEO REPEATER  $\bigcirc$ LTS TREE, STUMP CONTROL MFS\_P\_T FEE ACQUISITION W/O ACCESS SIGNAL, TRAFFIC OR PEDESTRIAN  $\mathbb{V}$ WIRELESS VIDEO RECEIVER TWZSIG\_P **TWVRC** (TEMPORARY) Ø TREE, WELL OR WALL മ CBP IWVTT WIRELESS VIDEO TRANSMITTER TWZWL\_P WARNING LIGHT  $\triangle$ BASELINE, POINT ROADWAY LUKP UNKNOWN POINT  $\odot$ CBPOL BASELINE, POINT ON LINE HI-TWZWV\_P WORK VEHICLE  $\bigcirc$ RES\_P ELEVATION, SPOT WORK VEHICLE WITH TRUCK NOTE: △ CBSP BASELINE, SPUR POINT TWZWVA\_P  $\boxtimes$ RGA GUIDE RAIL, ANCHOR SEE LEG-1 FOR NOTES. **CBTP** BASELINE, TIE POINT  $\bigcirc$ GUIDE POST, SINGLE ⊡ CPBM BENCHMARK ₩ CPH POINT, HORIZ. PHOTOGRAMMETRY CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS PIN: 1760.68 BRIDGES **CULVERTS** ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER D036169 **(** CPSM POINT, SURVEY MARKER, PERM. UTIL QLVL = D CPSV POINT, VERT., PHOTOGRAMMETRY LEGEND, LINE, & POINT SYMBOLOGY DRAWING NO. LEG-2 SHEET NO. 4 COUNTY: ESSEX REGION: GREENMAN-PEDERSEN, INC. ESSEX COUNTY

...\176Ø63\_ 3/4/2Ø19 Jgentzler

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- MATERIAL AND CONSTRUCTION SPECIFICATIONS: "STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS". NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) OFFICE OF ENGINEERING, DATED JANUARY 1, 2019 WITH CURRENT 22. TWO WEEKS PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL SUBMIT A PROPOSED CONSTRUCTION SEQUENCE TO THE ENGINEER FOR APPROVAL. ADDITIONS AND MODIFICATIONS, SHALL BE IN EFFECT FOR THIS PROJECT.
- CURRENT NATIONAL "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH NEW YORK STATE SUPPLEMENT SHALL BE IN EFFECT FOR THIS PROJECT.
- 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.
- 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 CONDITIONS AND A.O.B.E.
- 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.
- THERE SHALL BE NO CLAIM AGAINST THE COUNTY OR STATE 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 AND PER SECTION 104-04 OF THE STANDARD SPECIFICATIONS.
- 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.
- 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 AND PER SECTION 104-04 OF THE
- 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 AND A.O.B.E. THE COST OF THIS WORK SHALL BE INCLUDED UNDER
- 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 SEPARATE PAYMENT IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE
- 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.
- 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.
- PAYED AREAS DISTURBED BY THE CONTRACTOR WHICH ARE NOT PART OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED TO AN ACCEPTABLE CONDITION AS SPECIFIED BY AND TO THE SATISFACTION OF THE
- 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.
- PROVISIONS TO DE-WATER EXCAVATIONS, DUE TO CONSTRUCTION OPERATIONS ALONG THE PROJECT ARE REQUIRED. THERE SHALL BE NO SEPARATE PAYMENT FOR ANY DE-WATERING SYSTEMS. COST SHALL BE INCLUDED IN THE PRICE BID FOR
- THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES, WITHIN THE CONTRACT LIMITS, CLEAN AND FULLY OPERATIONAL 2. AT ALL TIMES (A.O.B.E.). THIS WORK SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT AS REQUIRED AND IN ACCORDANCE WITH SECTION 625 OF THE STANDARD SPECIFICATIONS. COST FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 625.01-SURVEY OPERATIONS.
- 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 AND PER SECTION 104-04 OF THE STANDARD
- THE CONTRACTOR SHALL BE REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA
- COST OF WATERING NEEDED FOR VEGETATION AND OTHER LANDSCAPING ITEMS SHALL BE INCLUDED UNDER EACH 20. RESPECTIVE ITEM IN THE CONTRACT. THERE WILL NOT BE A SEPARATE PAYMENT.
- 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

- BASEMAPPING WAS DEVELOPED FROM A LIMITED GPS SURVEY CONDUCTED BY GREENMAN-PEDERSEN, INC. IN MAY, 2017. THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, EASTERN ZONE, NAD 1983 IN US SURVEY FEET. THE VERTICAL DATUM SHOWN HEREON IS REFERENCED TO THE NATIONAL VERTICAL DATUM OF 1988 IN SURVEY FEET.
- SUBMITTALS, CATALOG CUTS, SAMPLES, AND SHOP DRAWINGS MUST BE RECEIVED, REVIEWED, AND APPROVED BY THE ENGINEER PRIOR TO ORDERING, FABRICATING, OR INSTALLING MATERIALS. FAILURE TO DO SO MAY CAUSE TIME DELAYS FOR THE CONTRACTOR, THE CONTRACTOR WILL NOT BE ENTITLED TO COMPENSATION FOR SAID TIME
- DURING CONSTRUCTION, FLOWABLE FILL SHALL NOT BE ALLOWED TO ESCAPE INTO WETLANDS, DRAINAGE SYSTEMS OR WATERS OF NEW YORK STATE, DESIGNATED WASH OUT AREAS ARE TO BE APPROVED BY THE ENGINEER IN 25.
- THE CONTRACTOR IS REQUIRED TO OBTAIN A RIGHT-OF-WAY PERMIT FROM THE ESSEX COUNTY AND RIGHT-OF-WAY PERMIT (PERM 33) FROM NYSDOT.
- 27. THE CONTRACTOR WILL NOTIFY THE COUNTY 72 HOURS PRIOR TO ANY LANE CLOSURES.

#### RIGHT-OF-WAY NOTES

- ALL WORK TO BE PERFORMED WITHIN SHEETS GNP-1 THROUGH GNP-12 UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE THE PUBLIC RIGHT-UF-WAY TROWN IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, I CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER. IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTRACT THE PROPLECT FRICINITES FOR DESTRICTIVE PROPLECT FRICINITY. CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATION BEFORE AND WORK MAY BE INITIATED AT THOSE LOCATION (STANDARD SPECIFICATION SECTIONS 105-10 AND 625).
- IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTION 105-15.
- THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS
- THE HIGHWAY BOUNDARY SHOWN ON GNP-1, GNP-3, GNP-4, GNP-5 (INLET), GNP-6 (INLET), GNP-7 (OUTLET), GNP-10, GNP-11, AND GNP-13 IN THE GENERAL PLANS ARE BASED ON GIS TAX MAP PARCELS AND WAS PROVIDED BY ESSEX COUNTY REAL PROPERTY. THE HIGHWAY BOUNDARY SHOWN ON GNP-2, GNP-5 (OUTLET), GNP-6 (OUTLET), GNP-7 (INLET), GNP-8, GNP-9, AND GNP-12 WAS ESTABLISHED IN FEBRUARY 2018 BY S.Y. KIM LAND SURVEYOR, P.C. USING RECORD PLANS AND FIELD MONUMENTATION.

#### **UTILITY NOTES**

- 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 HIS 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
- 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 DAMAGE UTILITIES SHALL BE AT THE EXPENSE OF THE CONTRACTOR, DOES NOT MAKE IMMEDIATE NECESSARY REPAIRS, THE RESPECTIVE OWNING COMPANIES OR MUNICIPAL FORCES MAY DO THE WORK, AND THE COST THEREOF CHARGED
- THE UNDERGROUND UTILITY INFORMATION SHOWN IS BASED ON QUALITY LEVEL "D". FOUR SEPARATE QUALITY LEVELS OF SUBSURFACE UTILITY FACILITY INFORMATION ARE GENERALLY RECOGNIZED AND ARE AS FOLLOWS:

QUALITY LEVEL A IS THE HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITY FACILITIES OF THE SUBSURFACE UTILITIES, USING (TYPICALLY) MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT TO DETERMINE THEIR PRECISE HORIZONTAL AND VERTICAL POSITIONS, AS WELL AS THEIR OTHER OWN FACILITY ATTRIBUTES, (SHOWN AS QLA)

QUALITY LEVEL B IS THE SECOND HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS (I.E., UNDERGROUND CAMERAS, RADAR, SONAR, TONE OUTS, ETC.) TO IDENTIFY THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF SUBSURFACE UTILITY FACILITIES, QUALITY LEVEL B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THE INFORMATION WAS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO THE PLANS, NO EXCAVATIONS WERE PERFORMED. (SHOWN AS QLB)

#### UTILITY NOTES CONT'D

QUALITY LEVEL C IS THE THIRD HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION. (SHOWN

QUALITY LEVEL D IS THE LOWEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS WAS DERIVED SOLELY FROM EXISTING NYSDOT AND/OR UTILITY COMPANY RECORDS OR RECOLLECTIONS. (SHOWN AS

- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING NATIONAL GRID FOR PROVIDING RESTRAINTS TO THE EXISTING UTILITY POLES IF REQUIRED WITHIN THE PROJECT LIMITS, WHILE CONSTRUCTION IS TAKING PLACE. THE CONTRACTOR SHALL COORDINATE WITH NATIONAL GRID TO PERFORM THE WORK. THE COST FOR THIS WORK SHALL BE
- ALL UTILITY POLES TO BE RELOCATED BY OTHERS SHALL BE APPROVED BY THE ENGINEER OF THEIR NEW LOCATION SO THAT THEY DO NOT CONFLICT WITH CONSTRUCTION.
- 7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL "DIG SAFELY" (1-800-962-7962) TO HAVE UNDERGROUND

#### **ELECTRICAL SAFETY NOTE**

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.

#### **ENVIRONMENTAL REQUIREMENTS**

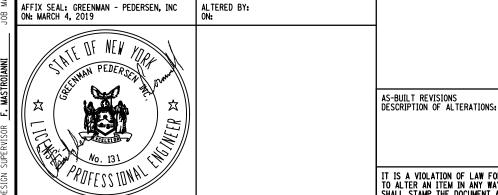
- THE CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL PERMIT REQUIREMENTS PROVIDED IN THE CONSTRUCTION DOCUMENTS, WITHIN THE DOCUMENTS ARE PERMITS FROM THE ADIRONDACK PARK AGENCY, ARMY CORPS OF ENGINEERS, AND NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION (TWO PERMITS), COST TO BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT WILL BE MADE FOR PERMIT COMPLIANCE.
- 2. THE CONTRACTOR IS ALLOWED TO WORK ON CULVERT 'O' FROM MAY 1 TO SEPTEMBER 30.

#### CLEARING AND GRUBBING:

THE CONTRACTOR MAY REMOVE VEGETATION AS REQUIRED WITHIN THE RIGHT-OF-WAY AND PERMANENT EASEMENTS TO ACCESS AND PERFORM THE WORK. ROOTS OF VEGETATION SHALL PREFERABLY REMAIN AND ENTIRE TREES ARE NOT TO BE REMOVED. THE WORK IS TO BE PAID FOR UNDER ITEM 201.06 - CLEARING AND GRUBBING

#### **CUL VERTS**

- DUE TO THE EXISTING CONDITIONS PRESENT IN A MAY 2017 FIELD SURVEY THE CONDITION OF THE INVERT AT CULVERTS 'J' AND 'O' ARE UNKNOWN. IF THE CONTRACTOR DISCOVERS AREAS OF DETERIORATION 1 SF OR GREATER, THE CONTRACTOR IS TO FILL THE DETERIORATED AREA WITH GROUT ITEM 204.01 AS DIRECTED BY THE ENGINEER PRIOR TO LINING THE CULVERT WITH SHOTCRETE, SEE DETAIL ON DWG, MTD-3.
- ALL SEDIMENT, DEBRIS, AND EXCAVATED MATERIAL FROM THE CULVERTS ARE TO BE DISPOSED OF IN A SUITABLE LOCATION ESTABLISHED BY THE CONTRACTOR AND APPROVED BY THE E.I.C. NO SEPARATE PAYMENT IS PROVIDED.
- THE TYPE OF DEWATERING METHOD AND EQUIPMENT USED IS TO BE DETERMINED BY THE CONTRACTOR, REGARDLESS OF THE METHOD, THE CONTRACTOR WILL BE RESPONSIBLE FOR ESTABLISHING ENOSION CONTROL MEASURES FOR EMBANKMENT STABILIZATION AND FOR RESTORATION OF IMPACTS CAUSED BY ANY COFFERDAM OR SEDIMENT REMOVAL AREA. PER GENERAL NOTE 15. NO SEPARATE PAYMENT FOR DEWATERING IS PROVIDED.



CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS TOWN OF TICONDEROGA

PIN: 1760.63 UTIL QLVL = D BRIDGES

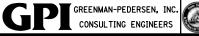
**CUL VERTS** 

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER D036169

**GENERAL NOTES** DRAWING NO. GNN-1 SHEET NO. 5

COUNTY: ESSEX 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.



#### WORK ZONE TRAFFIC CONTROL NOTES:

- 1. THE FOLLOWING NOTES ARE INTENDED TO SUPPLEMENT AND CLARIFY REQUIREMENTS SET FORTH IN SECTION 619 OF THE CURRENT MYS STANDARD SPECIFICATIONS AND SECTION 619 OF THE MYS STANDARD SHEETS.
- 2. ALL WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT NYSDOT STANDARD SPECIFICATIONS, THE CURRENT NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NYS SUPPLEMENT.
- 3. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ALL PROVISIONS OF ITEM 619.01 BASIC WORK ZONE TRAFFIC CONTROL, OR AS AMENDED ON THESE PLANS, FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR MAY SUBMIT REVISIONS TO THESE PLANS, IN WRITING, TO THE ENGINEER FOR APPROVAL, HOWEVER ANY COSTS RESULTING FROM THESE CHANGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL VEHICLES AND EQUIPMENT THAT SHALL BE MOVING IN AND OUT OF TRAFFIC AT WORK AREAS SHALL BE EQUIPPED WITH AN APPROVED AMBER ROTATING SAFETY LIGHT. THIS LIGHT SHALL BE MOUNTED SO AS TO BE EASILY SEEN BY APPROACHING TRAFFIC.
- 6. VEHICLES BELONGING TO THE CONTRACTOR, OR THE CONTRACTOR'S EMPLOYEES, SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS, OR WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG OR ADJACENT TO OPEN TRAVEL LANES.
- . THE CLEAR ROADSIDE AREA IS DEFINED AS THE AREA WITHIN 30 FEET OF THE EDGE OF THE TRAVELWAY. NO MATERIAL SHALL BE STORED OR VEHICLES PARKED WITHIN THE CLEAR ROADSIDE AREA UNLESS WITHIN AN ACTIVE WORK ZONE OR WITH THE APPROVAL OF THE ENGINEER.
- B. DRIVING AGAINST TRAFFIC AT ANY TIME, REGARDLESS OF WHETHER OR NOT THE AREA HAS BEEN CLOSED TO TRAFFIC, SHALL NOT BE PERMITTED, EXCEPT FOR TRAFFIC CONE PICK-UP OR AS SPECIFICALLY PERMITTED BY THE ENGINEER.
- ESCORT VEHICLES EQUIPPED WITH AN AMBER LIGHT OR AN OPERATING ARROW PANEL WILL BE REQUIRED WHEN TRANSPORTING SLOW MOVING CONSTRUCTION EQUIPMENT ALONG ANY PORTION OF THE ROADWAY OPEN TO TRAFFIC.
- 10. WHEN REOPENING DRIVING LANES TO TRAFFIC, THE CONTRACTOR SHALL START BY MOVING THE DEVICES AT THE FAR END OF THE LANE CLOSURE AND WORKING TOWARDS THE SIGNS AT THE BEGINNING OF THE LANE CLOSURE. THE SIGNS ARE NOT TO BE TAKEN DOWN UNTIL ALL TRAFFIC CONTROL DEVICES HAVE BEEN REMOVED.
- 11. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO AVOID DAMAGING EXISTING PAVEMENT, CURBS, AND SIDEWALKS WHEN IT IS NECESSARY TO MOVE EQUIPMENT THROUGH LOCAL STREETS. HE/SHE SHALL OBSERVE ALL OF THE RULES, REGULATIONS, AND DIRECTIONS OF LOCAL MUNICIPALITIES RELATIVE TO SUCH HANDLING OF EQUIPMENT, AND TAKE SUCH PROTECTIVE MEASURES AS HE/SHE DEEMS NECESSARY OR AS DIRECTED BY THE ENGINEER. LOCAL STREET PAVEMENT, CURBS, VEGETATION, SIDEWALKS, AND OTHER APPURTENANCES LOCATED WITHIN THE CONTRACT LIMITS THAT ARE NOT SCHEDULED TO BE REPLACED, AND ARE DAMAGED BY THE CONTRACTOR, SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S SOLE COST AND EXPENSE.
- 12. THE WORK ZONE TRAFFIC CONTROL PLANS PROVIDED HEREIN AND AS PER STANDARD SHEETS ARE NOT INTENDED TO BE ALL INCLUSIVE, BUT RATHER SERVE AS A GUIDE FOR THE SAFE AND EFFICIENT SEQUENCE OF TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS. ANY ADDITIONS OR DELETIONS TO THE TRAFFIC CONTROL PLANS MAY BE ORDERED BY THE ENGINEER. COST TO BE INCLUDED UNDER ITEM 619.01.
- 13. COSTS FOR ALL TEMPORARY SIGNS FOR WORK ZONE TRAFFIC CONTROL SHALL BE INCLUDED UNDER ITEM 619.01.
- 15. THE COST OF PROVIDING AND MAINTAINING SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES, TO THE SATISFACTION OF THE ENGINEER, SHALL BE BORNE BY THE CONTRACTOR, INCLUDING PROVIDING TEMPORARY ASPHALT PAVEMENT TO MAINTAIN THIS ACCESS.
- 16. IF THE ENGINEER NOTIFIES THE CONTRACTOR OR HIS SUPERINTENDENT OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THAT AREA SHALL BE DISCONTINUED AND IMMEDIATE REMEDIAL ACTION SHALL BE TAKEN TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL SIGNS, CONES, FLASHERS, BARRIERS, ETC. ARE IN PLACE AND IN GOOD CONDITION. THE SOLE JUDGE OF THE EFFECTIVENESS OF THE CONTRACTOR'S EFFORTS TOWARDS THE PROTECTION OF TRAFFIC AND PERSONNEL SHALL BE THE ENGINEER.

#### WORK ZONE TRAFFIC CONTROL NOTES (CON'T):

- 18. FLAGGERS SHALL BE LOCATED AT ALL ACTIVE WORK AREAS AND AT OTHER LOCATIONS WITHIN A WORK AREA WHERE RESTRICTED SIGHT DISTANCE IMPEDES THE FLOW OF TRAFFIC OR A.O.B.E.
- 19. EXISTING TRAFFIC SIGNS SHALL BE COVERED AND UNCOVERED AS NECESSARY DURING CONSTRUCTION. COST TO BE INCLUDED UNDER ITEM 619.01.
- 20. IF IN THE ENGINEER'S JUDGMENT, FLAGS ON SIGNS ARE NECESSARY DUE TO LIMITED SIGHT DISTANCE. THEY SHALL BE PROVIDED BY THE CONTRACTOR. COST SHALL BE INCLUDED IN ITEM 619.01.
- 21. PEDESTRIAN AND BICYCLIST TRAFFIC SHALL BE MAINTAINED AND PROTECTED AT ALL TIMES IN ACCORDANCE WITH SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS.
- 22. THE CONTRACTOR IS ADVISED THAT THROUGHOUT THE DURATION OF THE PROJECT, NIGHTTIME CONSTRUCTION WILL NOT BE ALLOWED UNLESS APPROVED BY ENGINEER, NIGHTTIME CONSTRUCTION IS DEFINED AS THE PERIOD BETWEEN 7 PM AND 6 AM.
- 23. THE CONTRACTOR SHALL MAINTAIN STABLE EXCAVATED SIDE SLOPES AT ALL TIMES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL PUBLIC AND PRIVATE UTILITIES FOR MAINTENANCE OR RELOCATION WORK WITH RESPECT TO SITE ACCESS, TRAFFIC CONTROL AND SCHEDULING TO AVOID CONFLICTS FOR TIMELY COMPLETION OF THE WORK.
- 25. THE CONTRACTOR SHALL PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS FOR LOCAL FIRE, POLICE AUTHORITIES, AND AMBULANCE SERVICES THROUGHOUT THE PROJECT AREA AT ALL TIMES.
- 26. RESPONSIBILITY FOR EMERGENCY REPAIRS: THE CONTRACTOR SHALL, IN WRITING, SUBMIT TO THE APPROPRIATE LAW EMFORCEMENT AND GOVERNMENT AGENCIES THE NAME, ADDRESS AND TELEPHONE NUMBER(S) OF THE PERSON OR PERSONS AUTHORIZED TO SECURE LABOR, MATERIALS AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE OF NORMAL WORKING HOURS, DUPLICATE COPIES OF THE ABOVE SHALL BE FILED WITH THE ENGINEER.
- WHERE DRUMS, CONES, VERTICAL PANELS OR TUBULAR MARKERS ARE USED IN CONTROLLING THE MOVEMENT OF TRAFFIC, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO PREVENT ALL TRAFFIC CONTROL DEVICES FROM BEING BLOWN OVER OR DISPLACED BY PASSING VEHICLES. THE CONTRACTOR SHALL ACCOMPLISH THIS BY DOUBLING CONES, THE USE OF SAND BAGS, RINGS OR BY OTHER MEANS, AS APPROVED BY THE ENGINEER, WHICH SHALL NOT PRESENT A HAZARD TO MOTORISTS OR WORKERS IF THE CONES, DRUMS, VERTICAL PANELS OR TUBULAR MARKERS ARE STRUCK.
- 28. THE CONTRACTOR SHALL BACKFILL ALL OPEN EXCAVATIONS OR PROVIDE ANCHORED STEEL PLATES TO COVER ALL TRENCH EXCAVATIONS DURING NON-WORKING HOURS, ANCHORED STEEL PLATES SHALL ALSO BE PLACED ON SUBGRADE, SUBBASE COURSES OR BASE COURSES TO PROTECT SHALLOW UTILITY FACILITIES FROM WHEEL LOADINGS DUE TO CONSTRUCTION VEHICLES AND EQUIPMENT, STEEL PLATES SHALL BE RAMPED WITH ASPHALT IN THE ROADWAY AREA TO PROVIDE A SMOOTH TRANSITION. THE COST FOR ANCHORED PLATES AND PAVEMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01.
- 9. THE MINIMUM WIDTH OF TRAVEL LANES SHALL BE 11 FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- . THE CONTRACTOR WILL NOT BE ALLOWED TO IMPLEMENT ANY TEMPORARY LANE OR SHOULDER CLOSURES OR OTHERWISE DISRUPT TRAFFIC IN ANY WAY DURING THE FOLLOWING STATE RECOGNIZED HOLIDAYS:
  - ) NEW YEAR'S DAY
- 2) MEMORIAL DAY
- 3) INDEPENDENCE SAY 4) LABOR DAY
- 5) COLUMBUS DAY
- 6) THANKSGIVING DAY
  7) CHRISTMAS DAY
- IF AN ABOVE RECOGNIZED HOLIDAY IS ON A MONDAY, NO TEMPORARY LANE OR SHOULDER CLOSURES OR OTHER TRAFFIC DISRUPTIONS WILL BE PERMITTED FROM 12 NOON FRIDAY BEFORE THE HOLIDAY TO 10 A.M. TUESDAY AFTER THE HOLIDAY.
- IF AN ABOVE RECOGNIZED HOLIDAY IS ON A TUESDAY, NO TEMPORARY LANE OR SHOULDER CLOSURES OR OTHER TRAFFIC DISRUPTIONS WILL BE PERMITTED FROM 12 NOON FRIDAY BEFORE THE HOLIDAY TO 10 A.M. WEDNESDAY AFTER THE HOLIDAY.
- IF AN ABOVE RECOGNIZED HOLIDAY IS ON A WEDNESDAY, NO TEMPORARY LANE OR SHOULDER CLOSURES OR OTHER TRAFFIC DISRUPTIONS WILL BE PERMITTED FROM 12 NOON TUESDAY BEFORE THE HOLIDAY TO 10 A.M. THURSDAY AFTER THE HOLIDAY.
- IF AN ABOVE RECOGNIZED HOLIDAY IS ON A THURSDAY OR FRIDAY, NO TEMPORARY LANE OR SHOULDER CLOSURES OR OTHER TRAFFIC DISRUPTIONS WILL BE PERMITTED FROM 12 NOON THE DAY BEFORE THE HOLIDAY TO 10 A.M. MONDAY AFTER THE HOLIDAY.
- IF AN ABOVE RECOGNIZED HOLIDAY IS ON A WEEKEND DAY, NO TEMPORARY LAME OR SHOULDER CLOSURES OR OTHER TRAFFIC DISRUPTIONS WILL BE PERMITTED FROM 12 NOON FRIDAY BEFORE THE HOLIDAY TO 10 A.M. TUESDAY AFTER THE HOLIDAY.
- 31. THE CONTRACTOR SHALL NOT BEGIN WARMING UP EQUIPMENT BEFORE THE SCHEDULED START TIMES, NOR KEEP EQUIPMENT RUNNING AFTER THE SCHEDULED QUIT TIMES.

## WORK AREA COORDINATION:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR, BEFORE COMMENCING WORK, TO SUBMIT TO THE ENGINEER FOR APPROVAL AN OUTLINE OF HIS PROPOSED METHODS AND MANNER OF EXECUTING THE WORK. INCLUDING SEQUENCES OF OPERATION AND A TIME SCHEDULE.
- . THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY UTILITY WORK, SUBCONTRACTORS WORK, PUBLIC MAINTENANCE OPERATIONS, OR OTHER CONSTRUCTION ACTIVITIES IN THE AREA TO ENSURE THERE ARE NO CONFILETS.
- ESSEX COUNTY, THE TOWN OF TICONDEROGA DEPARTMENT OF PUBLIC WORKS, AND INTERNATIONAL PAPER SHALL BE NOTIFIED 2 WEEKS IN ADVANCE OF ANY SCHEDULED WORK.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE ACCESS TO ALL BUSINESSES THROUGHOUT THE PROJECT DURATION DURING ALL HOURS.

#### PEDESTRIAN AND BICYCLE ACCOMMODATION

1. THE CONTRACTORS ATTENTION IS CALLED TO THE FACT THAT PEDESTRIAN AND BICYCLE TRAFFIC IS TO BE MAINTAINED THROUGHOUT OR AROUND THE PROJECT FOR THE DURATION OF CONSTRUCTION. MATERIAL, EQUIPMENT OR OTHER SUCH BARRIERS SHALL NOT BE PLACED OR PARKED SO AS TO OBSTRUCT PEDESTRIAN/BICYCLE TRAFFIC OR PRESENT A SAFETY HAZARD TO THE NON-MOTORIZED PUBLIC. ALL NECESSARY LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MAINTAIN PEDESTRIAN AND BICYCLE TRAFFIC SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL.

#### DELINEATION

- CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AS SPECIFIED IN THE PLANS AND/OR AOBE.
- . TEMPORARY OR INTERIM PAVEMENT MARKINGS SHALL BE INSTALLED PRIOR TO OPENING THE PAVEMENT TO TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE NYSDOT STANDARD SPECIFICATIONS.
- 3. EXISTING PAVEMENT MARKINGS OUTSIDE OF THE CONSTRUCTION ZONES SHALL BE MAINTAINED AND RE -STRIPED AOBE. THIS MAY INCLUDE, BUT IS NOT LIMITED TO RE -STRIPING THE EXISTING ROADWAY PRIOR TO, OR DIRECTLY AFTER, THE WINTER SHUTDOWN, AND/OR RE-STRIPING AREAS THAT ARE NOT SCHEDULED FOR WORK UNTIL LATER STAGES OF CONSTRUCTION. EXISTING PAVEMENT MARKINGS, LETTERS, AND SYMBOLS SHALL BE REAPPLIED AOBE.
- 4. ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED AS TO PROVIDE A 2 FOOT LATERAL CLEARANCE TO THE TRAVELWAY.
- THE CONTRACTOR SHALL NOT MIX CHANNELIZATION DEVICES (CONES, BARRELS, VERTICAL PANELS) IN A LINEAR CLOSURE OR TAPER. DIFFERENT CHANNELIZATION DEVICES MAY BE USED ON DIFFERENT AREAS OF THE PROJECT.

#### COORDINATION

1. THE CONTRACTOR SHALL BE AWARE THAT THERE MAY BE OTHER CONTRACTS, MUNICIPALITIES, MAINTENANCE OPERATIONS, OR BRIDGE INSPECTIONS IN PROGRESS IN OR ADJACENT TO THE WORK AREA. THE ENGINEER AND THE CONTRACTOR SHALL COMMUNICATE AND COORDINATE OPERATIONS WITH OTHER OPERATIONS SO THAT NO CONFLICT IN WORK SCHEDULING OR LOCATION OCCUR.

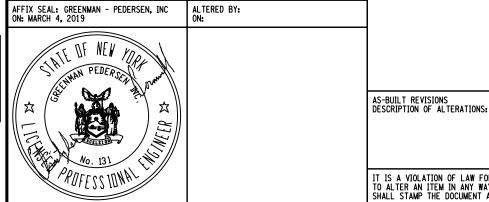
### STANDARD SHEETS 619-10, 11, 12 CRITERIA

- A. PRECONSTRUCTION POSTED SPEED LIMIT: 55 MPH
- B. TYPE OF ROADWAY: MAJOR COLLECTOR

**CUL VERTS** 

. SETTING: RURAL

BRIDGES



TOWN OF TICONDEROGA

UTIL QLVL = D

COUNTY: ESSEX REGION: 1

PIN: 1760.63

GPI GREENMAN-PEDERSEN, INC.

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WORK ZONE TRAFFIC CONTROL NOTES

CONTRACT NUMBER

D036169

CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS



ALTERED BY: ON: AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: MARCH 4, 2019 NEW YORK AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: 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.

LEGEND: PROPOSED PROJECT SIGN PORTABLE VARIABLE MESSAGE SIGN LOCATION PROJECT SIGN ROAD WORK AHEAD MONTH TO MONTH **USE CAUTION** 

CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS

TOWN OF TICONDEROGA

COUNTY: ESSEX

D3-1 (66X12) W20-1 (36X36) SHORE AIRPORT RD ROAD WORK AHEAD END ROAD WORK SEE NOTE 7 (TYP.) W20-1 (36x36) W7-3A (24X18) G20-2 (36X18) ROAD WORK -PROJECT SIGN (SEE NOTE 6) AHEAD D3-1 (66X12) W20-1 (36X36) D3-1 (66X12) W20-1 (36X36) G20-2 (36X18) (36x36) (24x42) NYR9-11

1. THE CONTRACTOR SHALL COVER ALL EXISTING SIGNS CONFLICTING WITH PROPOSED WORK ZONE SIGNING.

**SOUTHERN PROJECT LIMITS** 

- 2. CONSTRUCTION SIGNING SHALL BE COVERED OR TURNED OVER WHEN NOT IN USE.
- 3. WHILE WORKING IN THE VARIOUS SECTIONS OF THE ROADWAY AND DEPENDING UPON THE TYPE OF WORK, THE CONTRACTOR SHALL USE APPROPRIATE 619 STANDARD SHEETS FOR BOTH SHOULDER CLOSURES AND LANE CLOSURES.
- 4. THE COST OF ALL WORK ZONE SIGNAGE SHALL BE PROVIDED UNDER ITEM 619.01. SEE DWG. WZTC-1 FOR ADDITIONAL NOTES.
- 5. SIGN POSTS SHALL BE LOCATED BASED ON VALUES IN THE NYSDOT STANDARD SHEETS AND THE NYS MUTCD SUPPLEMENT.
- 6. THE PROJECT SIGNS SHALL BE CONSTRUCTED TO INDICATE THE ANTICIPATED DURATION OF THE PROJECT AND INSTALLED TWO WEEKS PRIOR TO CONSTRUCTION. THE SIGNS SHALL BE PAID FOR UNDER ITEM 619.01.

CULVERTS

7. SEE NORTHERN PROJECT LIMITS MAP FOR SIGN FACES.

PIN: 1760.63

UTIL QLVL = D

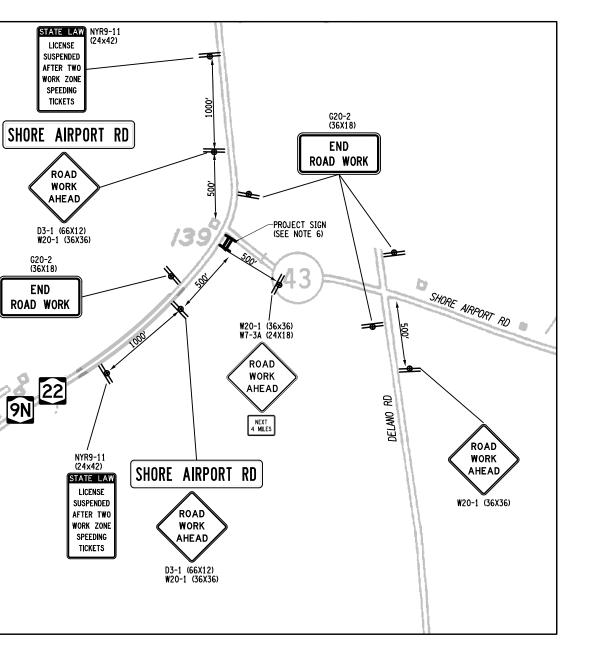
GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WORK ZONE TRAFFIC CONTROL

CONTRACT NUMBER D036169 DRAWING NO. WZTC-2 SHEET NO. 7

ESSEX COUNTY



**NORTHERN PROJECT LIMITS** 

36" 190.18 | 188.19 | 130.0 | 1.99% 190.3 | 188.3 | 9'-0"x15'-0" | 9'-0"x15'-0" 270.0 1.7 19.2 102.0 2.5 GNP-7 INSTALL CIPP, CULVERT END SECTIONS, AND STONE APRONS 48" 145.0 2.5 GNP-8 INSTALL 36" HDPE PIPE AND STONE APRONS 152.28 | 149.81 | 118.0 | 2.47% 152.5 | 150.0 | 12'-0"x20'-6" | 12'-0"x20'-6" 3.6 33.5 42" 492.0 118 16'-7" x 10'-1" | 96.64 | 96.36 | 182.0 | 0.28% 97.3 97.0 NONE 132.0 0.0 4750.2 GNP-9 LINE INVERT AND 50% OF ARCH HEIGHT WITH SHOTCRETE N/A N/A 6'-0"x10'-5" 6'-0"x10'-5" 76.0 1.3 GNP-10 CLEAN EXISTING PIPE AND INSTALL END SECTION/STONE APRONS 24" 172.53 | 170.40 | 75.0 | 2.13% N/A 125.0 8.8 0.5 GNP-11 CLEAN EXISTING PIPE AND INSTALL END SECTION/STONE APRONS 24" 177.13 | 175.63 | 88.0 | 1.50% N/A N/A N/A 6'-0"x10'-5" 6'-0"x10'-5" 125.0 0.5 8.8 70.0 1.3 71.0 1.3 N GNP-11 CLEAN EXISTING PIPE AND INSTALL END SECTION/STONE APRONS 24" 177.87 | 176.12 | 93.0 | 1.75% N/A N/A 6'-0"x10'-5" 6'-0"x10'-5" 125.0 0.5 8.8 N/A 107.0 0.0 O GNP-12 LINE INVERT AND 50% OF ARCH HEIGHT WITH SHOTCRETE 11'-5" x 7'-3" | 120.29 | 112.50 | 176.0 | 7.79% | 10'-9" x 6'-9" | 121.0 | 113.2 | 20'-0"x20'-0" | 17'-0"x17'-0" 689.0 5.0 38.3 22.4 10.0 330.6 TOTALS: 1473.0 | 28.6 | 11.0 | 7918.2 | 118.0 | 313.0 | 168.0 | 516.0 | 10 **©** EXISTING CMP & PROPOSED HDPE © EXISTING CMP & PROPOSED CURED-IN PLACE PIPE PROVIDE SPACERS AS — NEEDED TO RELINE PIPE. -STAGGERED TIMBER SLIDES OR SKID SYSTEM AS APPROVED BY THE ENGINEER COST INCLUDED IN ITEM 602.2742 & 602.2760. NOTES: SPACERS ARE
TO BE PLACED SUCH THAT
LOWEST PIPE INVERT
ELEVATION IS ACHIEVED. OUTSIDE CORRUGATION -SEE GENERAL PLAN SHEETS FOR ID OUTSIDE CORRUGATION MANUFACTURER RECOMMENDATION (SEE NOTE 3) AREA TO BE FILLED PER MANUFACTURER'S RECOMMENDATIONS. CURED-IN PLACE PIPE LINER COST INCLUDED IN ITEM 602.2742 OR 602.2760 (TYP.) CURED-IN PLACE PIPE SECTION ITEMS 602,3624 & 602,3636 PIPE LINING WITH HIGH DENSITY POLYETHYLENE PIPE ID = INSIDE DIAMETER ITEM 602.2742 & 602.2760 (TYP.) (SEE NOTE 3) (NTS) - SEE NOTE 1 HIGH DENSITY POLYETHYLENE PIPE SECTION ITEMS 602,2742 & 602,2760 ITEM UNIT DESCRIPTION (NTS) SELECT GRANULAR FILL 204.01 CONTROLLED LOW STRENGTH MATERIAL (CLSM) TRENCH AND CULVERT EXCAVATION VEGETATED MAT 209.180301 SY SEDIMENT FILTER LOG-TEMPORARY,12" 209.2301 LF CLASS A CONCRETE CY 555.0105 CY SF 555.10000006 ABANDON EXISTING CULVER LINING CULVERT WITH SHOTCRETE 602.2101 602,2742 LINING WITH PROFILE WALL HIGH DENSITY POLYETHYLENE PIPE 60 INCH DIAMETER LINING WITH CURED IN PLACE PIPE (CIPP) 24 INCH DIAMETER 602.3624 INING WITH CURED IN PLACE PIPE (CIPP) 36 INCH DIAMETER 602.3636 GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 24 INCH DIAMETER, 16 GAUGE 603.171416 GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 36 INCH DIAMETER, 14 GAUGE GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 48 INCH DIAMETER, 12 GAUGE EA EA AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: MARCH 4, 2019 ALTERED BY: 603.172012 GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2"CORRUGATIONS) 60 INCH DIAMETER, 12 GAUGE 603,172212 620.03 NEW YORK 620.08 REDDING MATERIAL NATIVE STREAM BED MATERIAL (A) 620.29010009 CY CLEANING CULVERTS WITH SPAN OF 50 IN. OR LESS 621.01 WHAN PEDERSON MISCELLANEOUS METALS AS-BUILT REVISIONS PIN: 1760.63 BRIDGES **CUL VERTS** CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED DESCRIPTION OF ALTERATIONS: = ...\176Ø63\_ = 3/4/2Ø19 = Jgentzler TOWN OF TICONDEROGA UTIL QLVL = D MISCELLANEOUS TABLES AND DETAILS COUNTY: ESSEX 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.

DESCRIPTION

X GNP-1 INSTALL CIPP, CULVERT END SECTIONS, AND STONE APRONS

GNP-3 INSTALL 60" HDPE PIPE AND STONE APRONS

GNP-4 FILL EXISTING CULVERT WITH FLOWABLE FILL

GNP-6 INSTALL 60" HDPE PIPE AND STONE APRONS

GNP-2 INSTALL CIPP, CULVERT END SECTIONS, AND STONE APRONS

GNP-2 INSTALL CIPP, CULVERT END SECTIONS, AND STONE APRONS

GNP-4 INSTALL CIPP, CULVERT END SECTIONS, AND STONE APRONS

GNP-5 INSTALL CIPP, CULVERT END SECTIONS, STONE APRONS, AND DRAINAGE DITCH

FT

24"

36"

24"

72"

36"

24"

36"

72"

FT

FT

NOT EVALUATED 58.0 N/E

262.65 255.69 10.1 6.96%

275.68 263.90 95.0 11.78%

183.97 | 181.97 | 134.0 | 2.00%

193.25 | 187.86 | 104.0 | 5.39%

193.52 192.56 81.0 0.96%

130.92 | 126.63 | 141.0 | 4.29% |

110.79 | 108.91 | 171.0 | 1.88%

FT

TABLE OF DRAINAGE ITEMS

INLET

262.9 | 255.9 | 9'-0"x15'-0" | 9'-0"x15'-0"

184.2 | 182.2 | 18'-0"x29'-6" | 18'-0"x29'-6"

193.4 | 188.0 | 9'-0"x15'-0" | 9'-0"x15'-0"

111.0 | 109.1 | 14'-0"x20'-0" | 18'-0"x29'-6

131.0 | 126.8 | 9'-0"x15'-0" | 9'-0"x15'-0" | 500'

6'-0"x10'-5" 6'-0"x10'-5'

FT

21"

60"

33"

N/A

36"

60"

N/E

FT

275.9 264.1 6'-0"x10'-5"

Tı) (SEE

OUTLET

SF TOTAL AREA

125.0

270.0

62.5

1062.0

270.0

270.0

811.0

CY CY

0.5

1.7

0.5

5.4

0.5

17

5.4

CY SY

8.8

19.2

5.3

69.0

18.0

55.0

37.9 72.2

LF

58.0 1.3

89.0 2.5

54.0 1.3

121.0 4.6

73.0 2.5

267.0 2.5

108.0 4.6

CY CY

0.0 11.0

PROPOSED HDPE LINER INVERT TO BE MAINTAINED AS LOW AS POSSIBLE.

DRAINAGE ITEMS - SEE DESCRIPTIONS BELOW

PROVIDE SMOOTH CROSS SECTION & INVERT ELEVATION SECTION SHOWN AT THE CULVERT INLET/OUTLET TO EXISTING GROUND AT LIMIT OF APRON. CONSTRUCTION SHALL BE PERFORMED BY EITHER HAND OR MECHANICALLY (A.O.B.E.) AS REQUIRED TO MEET THE PROPOSED PROFILE AND CROSS SECTION WITHOUT RESULTING IN IMPEDIMENTS TO FISH OR ANIMAL PASSAGE.

EA

141

104

141

130

95

138

175

EA EA

EA CY CY

4.6 2.3

10.0 5.0

2.3 1.2

10.0 5.0

10.0 5.0

10.0 5.0

18.2 9.1

4.6 2.3

4.6 2.3

4.6 2.3

25.5 12.8 25.5

4 173.9 87.0 94.9 256.0 2000.0

30.0 | 15.0 |

39.3 | 19.7 | 39.3

CY LF

88

93

THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING MANUFACTURER CALCULATIONS INDICATING THAT THE INSTALLED CURED-IN-PLACE LINER OR HDPE PIPE MEETS THE NECESSARY LOADING REQUIRED FOR EACH INDIVIDUAL CULVERT. THE DESIGN LOAD FOR ALL CULVERTS SHALL MEET THE NYSDOT LOAD AND RESISTANCE FACTOR DESIGN (RFD) REQUIREMENT OF A HL-93 TRUCK LOAD PER NSYDOT EB 11-015. FOR DEPTHS OF COVER SEE PROFILES ON DWGS. PRO-1 (CULVERT A/B), PRO-2 (CULVERT C/D), PRO-3 (CULVERT F/G), AND PRO-4 (CULVERT H/I). CULVERT X IS NOT SHOWN IN THE PROFILES, BUT THE CONTRACTOR WILL BE REQUIRED FOR SUBMITTING APPROPRIATE LOADING CALCULATIONS. A SUMMARY OF SOIL SAMPLES TAKEN DURING PAVEMENT CORING PROVIDES A SUMMARY OF BLOW COUNTS THAT CAN BE USED TO APPROXIMATE SOIL MODULUS. THE FINAL PAVEMENT REPORT IS INCLUDED AS SUPPLEMENTAL INFORMATION IN THE PROJECT MANUAL. INFORMATION IN THE PROJECT MANUAL.

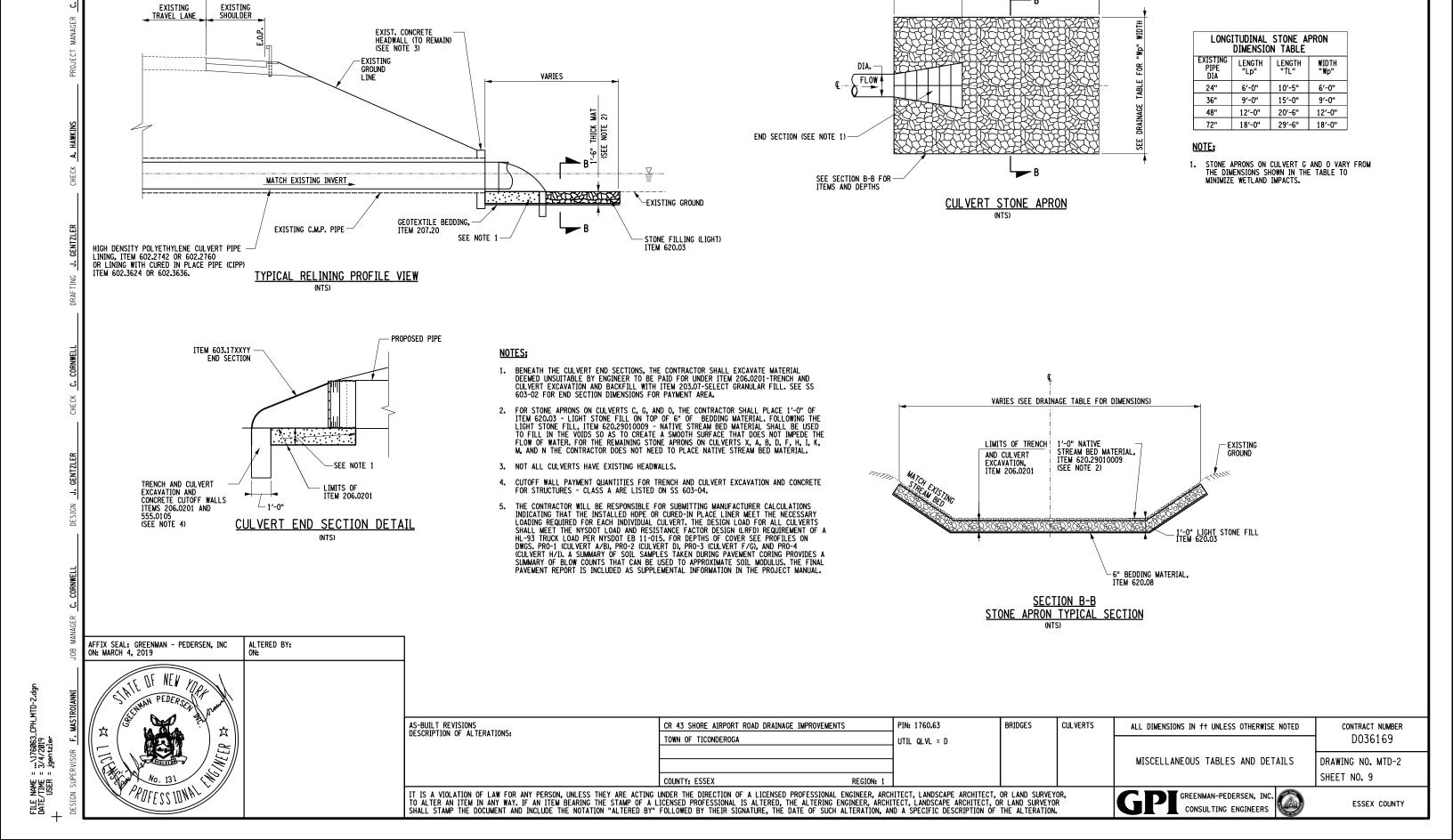
> GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

ESSEX COUNTY

CONTRACT NUMBER

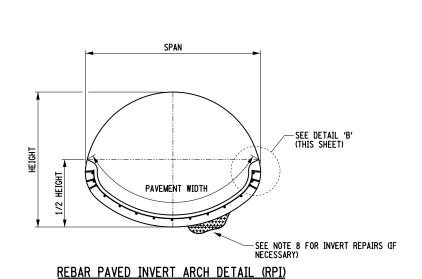
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DRAWING NO. MTD-1 SHEET NO. 8



SEE DRAINAGE TABLE FOR LENGTH "TL"

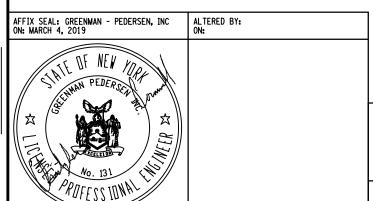
LENGTH "Lp"

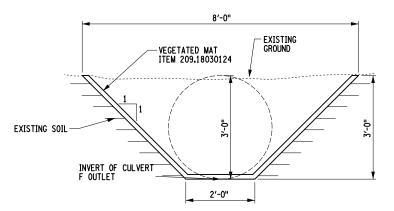


# SLOPÉ 1. DRAIN EXISTING CORRUGATED PIPE 6" LONG STUD SHEAR-REINFORCEMENT (SEE TABLE). TIE TO STUD SHEAR CONNECTORS -6" SPACING FOR 1/2" DIA. SHEAR STUD CONNECTORS. SEE TABLE (THIS SHEET) FOR MINIMUM NUMBER OF ROWS.

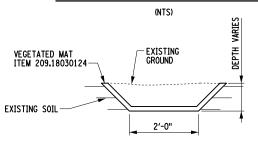
# DETAIL 'B'

REINFORCEMENT TABLE					
	SPAN	TRANSVERSE	LONGITUDINAL	"T"	STUD SHEAR CONNECTOR SPACING
1	>10'	*5 @ 6"	*5 @ 12"	8"	2 ROWS (SEE NOTE 6)



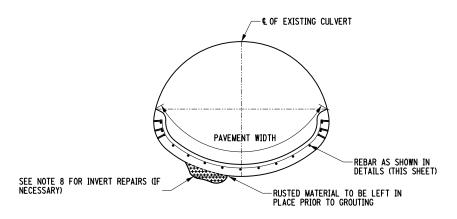


## CULVERT 'F' DRAINAGE DITCH PROFILE A-A

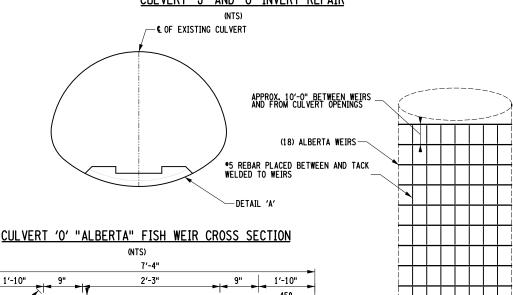


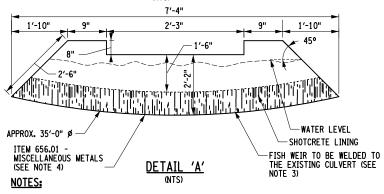
#### CULVERT 'F' DRAINAGE DITCH PROFILE B-B NOTES: (NTS)

- ITEM 602.2101 SHALL COMPLETELY COVER THE DETERIORATED SURFACE OF THE PIPE INVERT AND HALF ITS HEIGHT. STUD SHEAR CONNECTORS SHALL BE INSTALLED BY A CERTIFIED AMERICAN WELDING SOCIETY WELDER ACCORDING TO THE STEEL CONSTRUCTION MANUAL (SCM) AND ATTACHED TO THE PIPE ABOVE THE AREA OF SECTION LOSS, A.O.B.E. THIS ITEM SHALL INCLUDE ALL MATERIALS AND WORK SHOWN TO REPAIR THE CULVERT. PER ITEM 602.2101, ALL WORK NECESSARY TO COMPLETE THE SHOTCRETE IS INCLUDED IN THE ITEM INCLUSIVE OF BUT NOT LIMITED TO DEWATERING, CLEANING, REINFORCEMENT, SHEAR STUDS WELDING. FITC.
- ALL PROVISIONS OF SECTION 602 OF THE NYSDOT STANDARD SPECIFICATIONS APPLY TO THE WORK DETAILED AND ARE BASED ON DWGS. NYSDOT'S CULVERT REPAIR TABLES CD-1
- CONCRETE FOR CUT-OFF WALLS SHALL MEET REQUIREMENTS OF SECTION 555, CLASS A. SHOTCRETE SHALL MEET SECTION 583 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C
- 4. DEFECTIVELY ATTACHED STUD SHEAR CONNECTORS SHALL BE LEFT IN PLACE AND REPLACED WITH AN ADDITIONAL STUD SHEAR CONNECTOR A.O.B.E.
- ANY ASPHALT COATING AND GALVANIZING ARE TO BE REMOVED TO BARE METAL BEFORE WELDING. REPAIR GALVANIZING IN THE WELD AREAS ACCORDING TO SECTION 719-01 OF THE STANDARD SPECIFICATIONS. COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 602.2101.
- 6. THE STUD SHEAR CONNECTORS ARE TO BE WELDED TO THE CREST OF EVERY OTHER
- 7. CONCRETE SHALL CURE FOR A MINIMUM OF 48 HOURS BEFORE WATER IS PERMITTED TO FLOW ON THE INVERT.
- VOIDS (1 SQUARE FOOT OR LARGER) IN THE EXISTING INVERT SHALL BE COMPLETELY FILLED WITH GROUT AND PAID FOR UNDER ITEM 204.01. GROUT USED TO FILL CULVERT INVERT HOLES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C = 3000 PSI AT 28 DAYS. FOR VOIDS SMALLER THAN 1 SQUARE FOOT, SHOTCRETE MAY BE USED TO FILL THE INVEST. HOLES
- THE SHOTCRETE THICKNESS "T" IS TO BE MEASURED FROM THE CREST OF ALL CORRUGATIONS.
- ALL REINFORCEMENT SHALL BE GALVANIZED IN ACCORDANCE WITH NYSDOT MATERIAL SPEC 709-11.
- 11. ALL SHEAR STUD CONNECTIONS SHALL MEET NYSDOT MATERIAL SPEC 709.05 AND BE GALVANIZED IN ACCORDANCE WITH NYSDOT MATERIAL SPEC 719-01.



#### CULVERT 'J' AND 'O' INVERT REPAIR

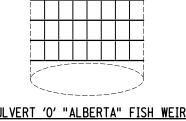




THE PROPOSED "ALBERTA" FISH WEIR IS TO BE CONSTRUCTED FROM 1/4" STEEL (A36) AND ITS EDGES CHAMFERED OR ROUNDED TO REMOVE ALL SHARP AREAS.

FOLLOWING FABRICATION THE METAL PLATE IS TO BE GALVANIZED PRIOR TO INSTALLATION OF THE SHOTCRETE LINING AND IN ACCORDANCE WITH NYSDOT MATERIAL SPEC 719-01. ANY BARE METALS SURFACES CREATED AS A RESULT OF WELDING IS TO BE COLD GALVANIZED.

3. THE WEIR IS TO BE WELDED TO THE HOST CULVERT ON ONE SIDE WITH A 1/4 THROAT FILLET WELD. THE WELD IS TO BE SHIELDED METAL ARC AND PERFORMED BY AN AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDER.



CULVERT '0' "ALBERTA" FISH WEIRS

4. PAID FOR UNDER ITEM 656.01 - MISCELLANEOUS METALS, IS THE FABRICATION, GALVANIZING, WELDING AND FIELD COATING REPAIRS OF THE WEIR.

BRIDGES

PIN: 1760.63

**CUL VERTS** 

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: TOWN OF TICONDEROGA UTIL QLVL = D COUNTY: ESSEX 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.

CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS

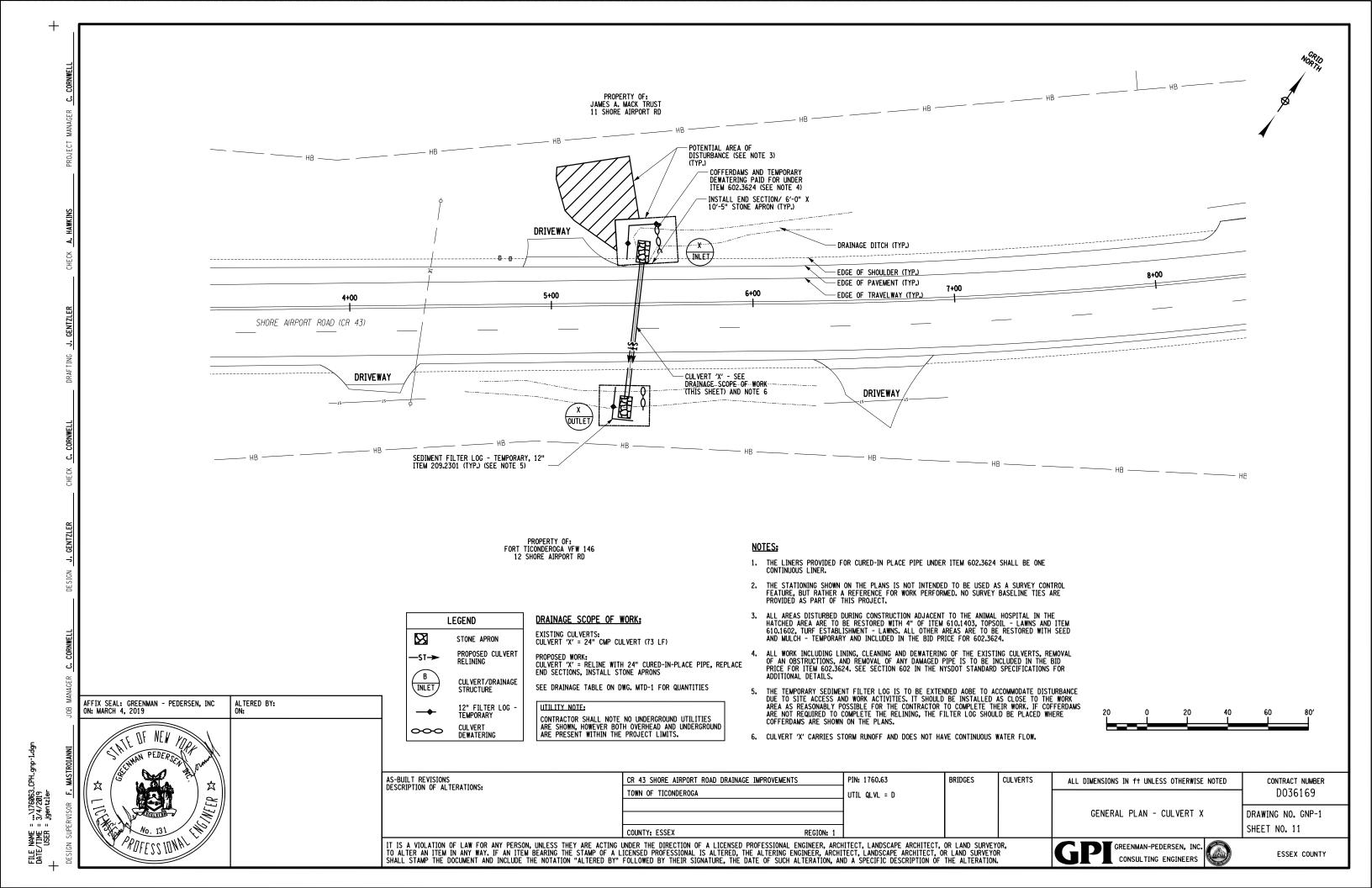
MISCELLANEOUS TABLES AND DETAILS DRAWING NO. MTD-3 SHEET NO. 10

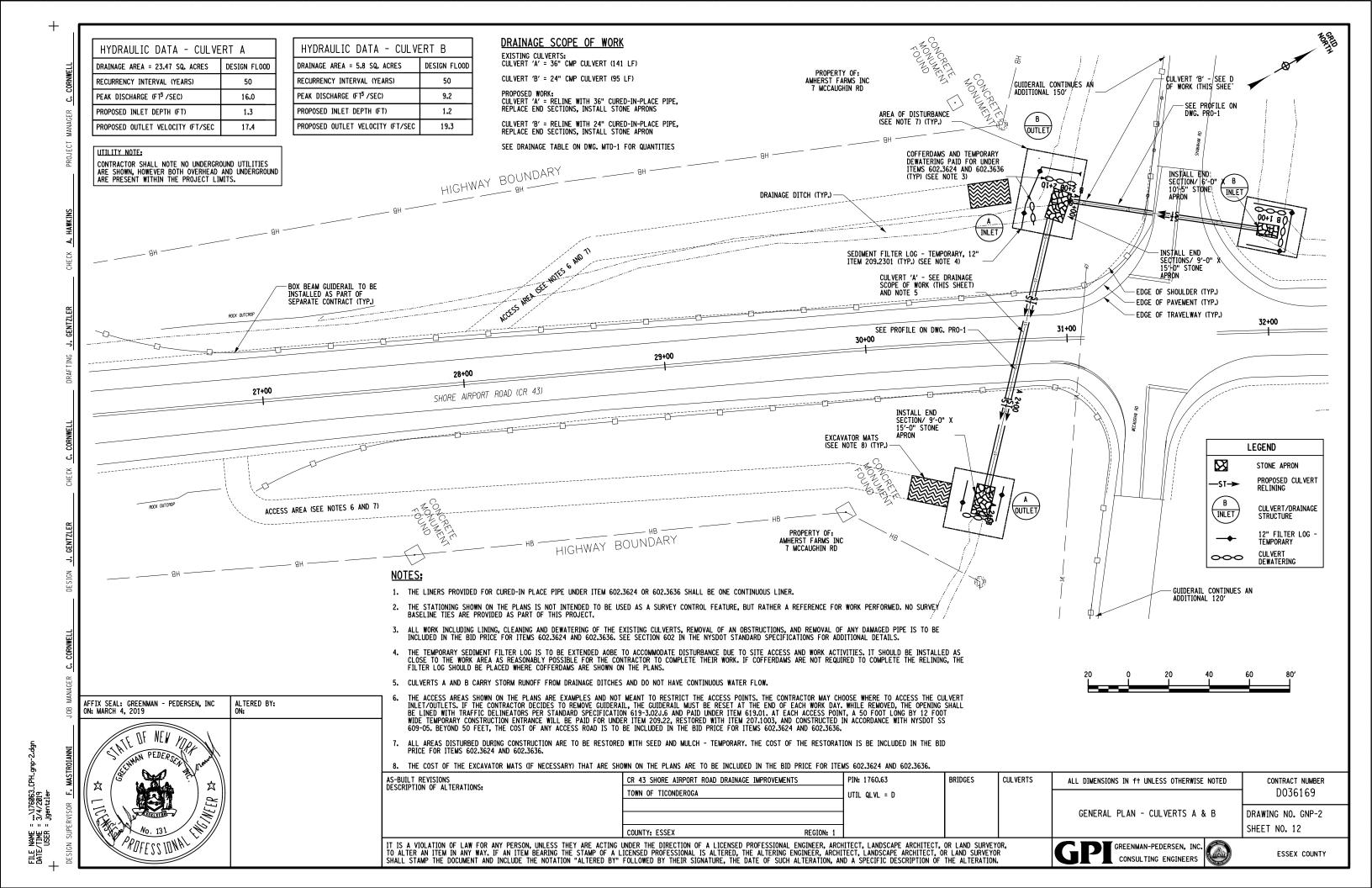
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

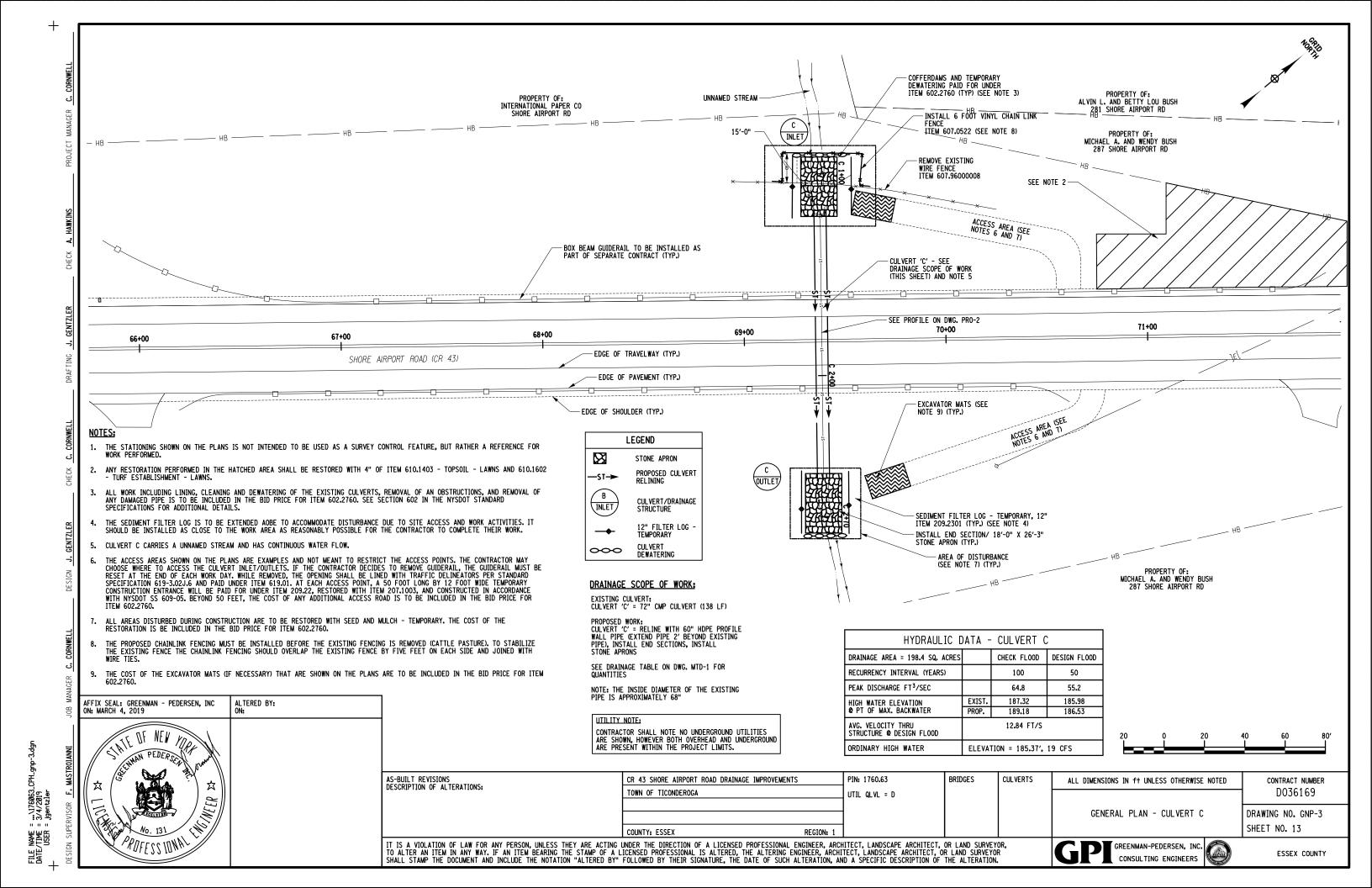


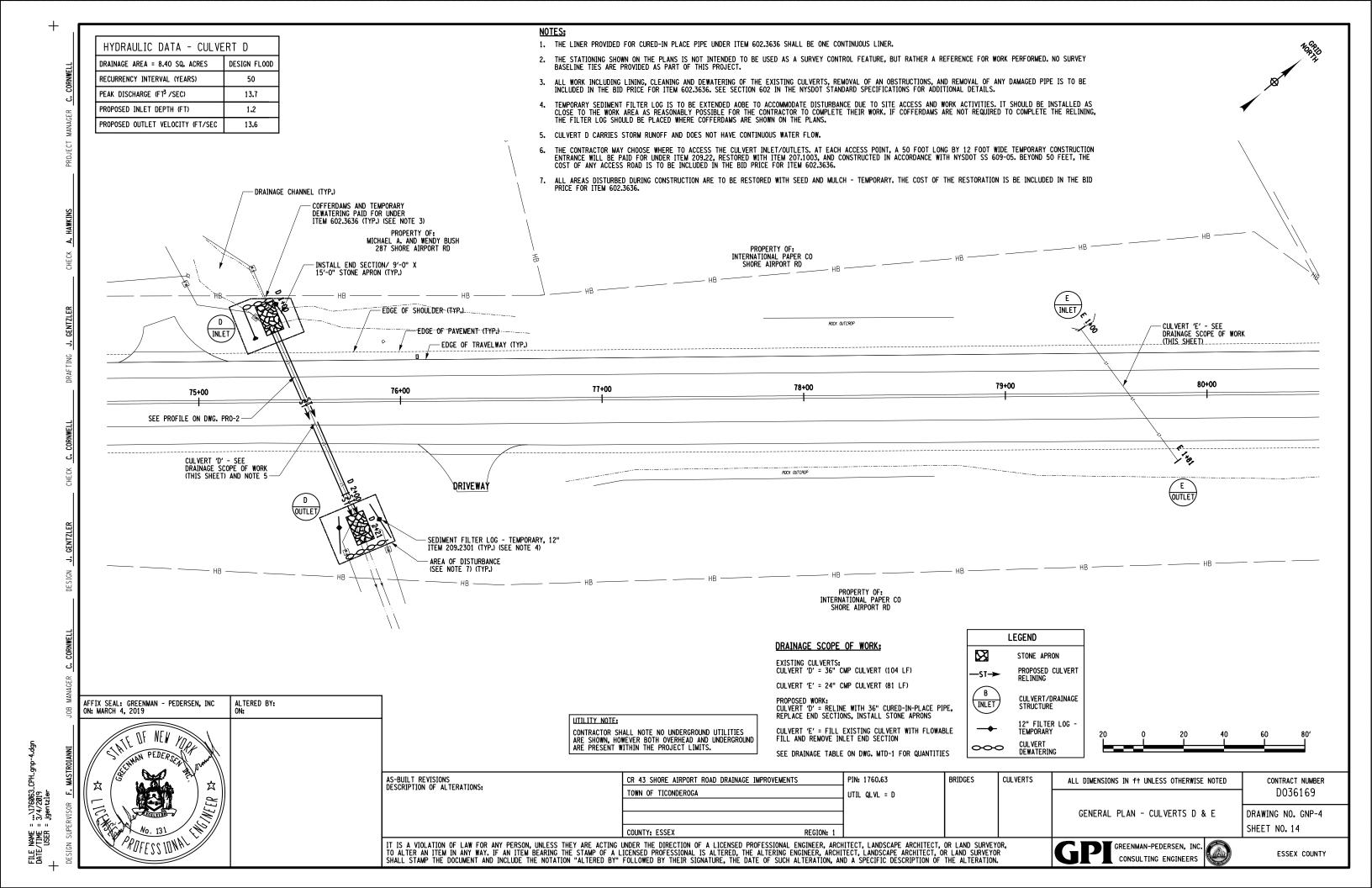
CONTRACT NUMBER

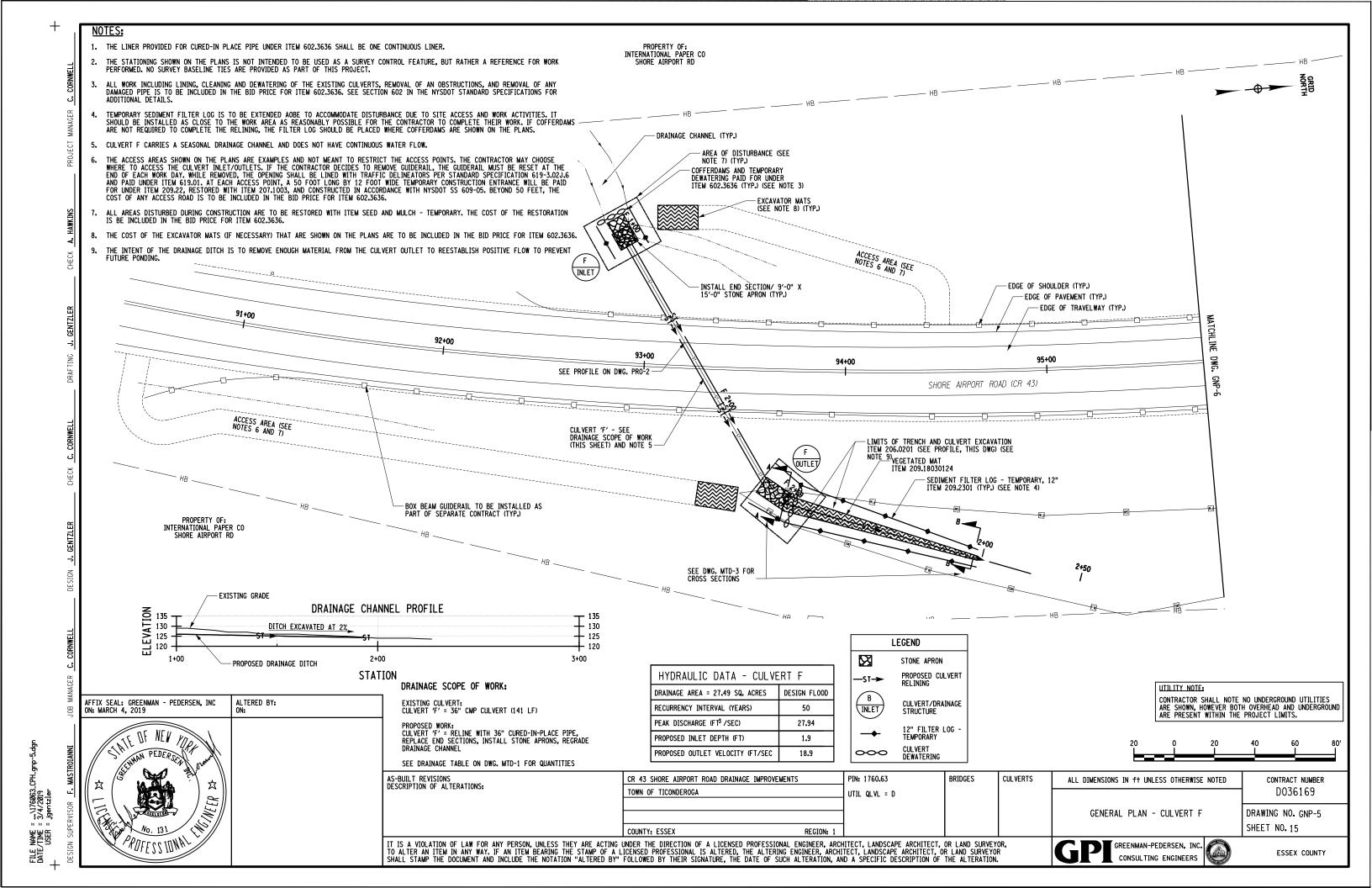
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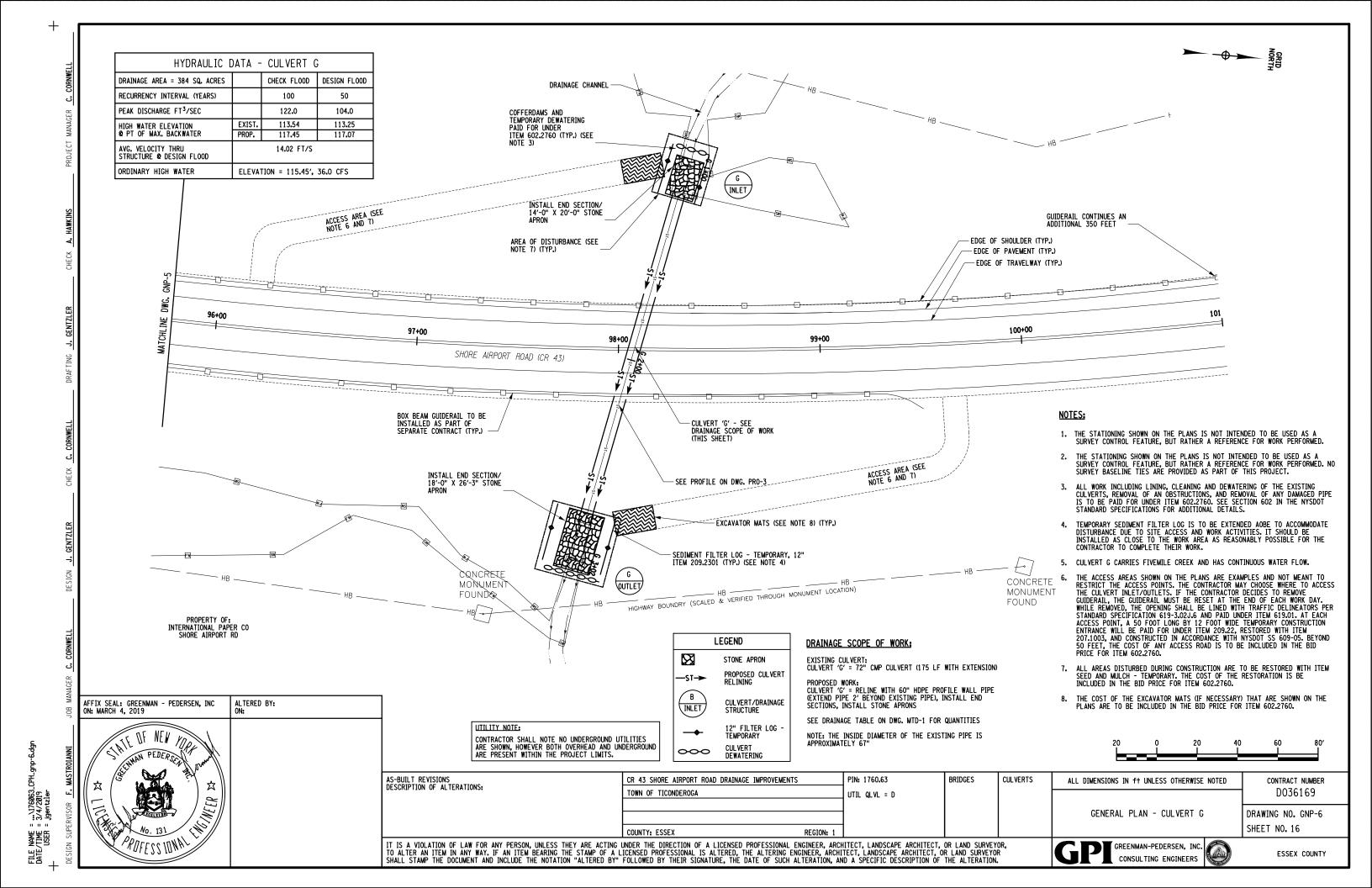


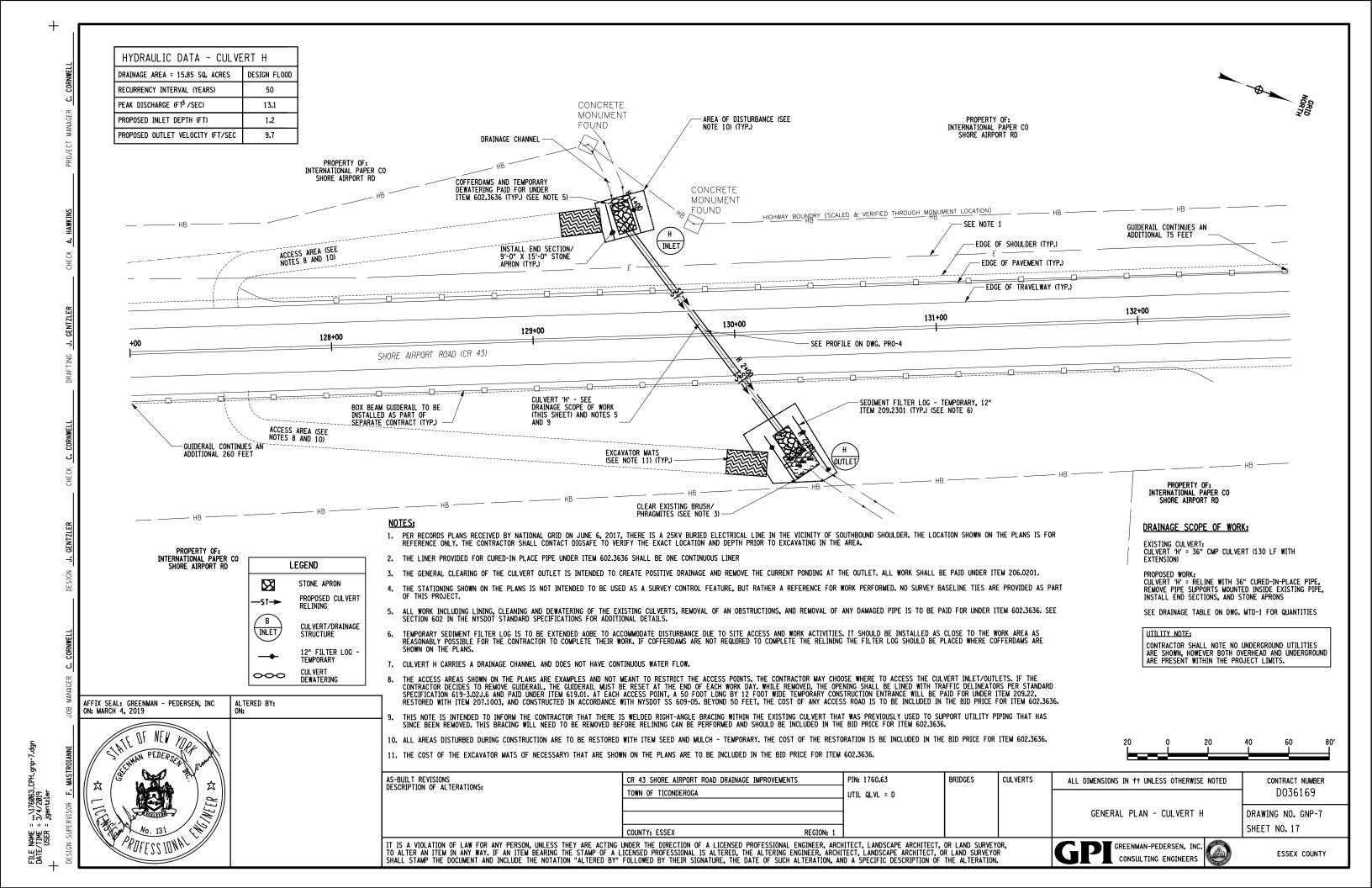


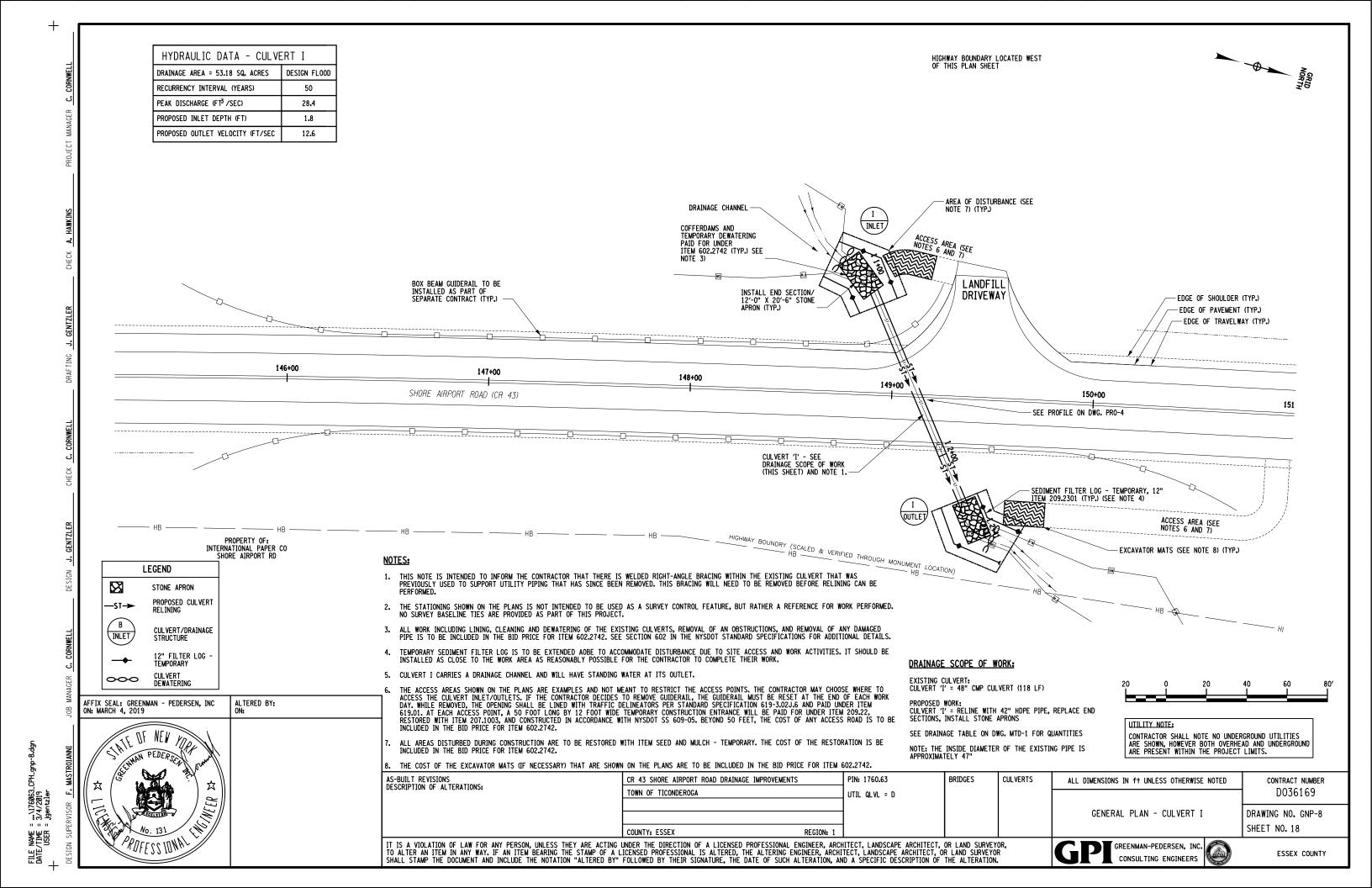


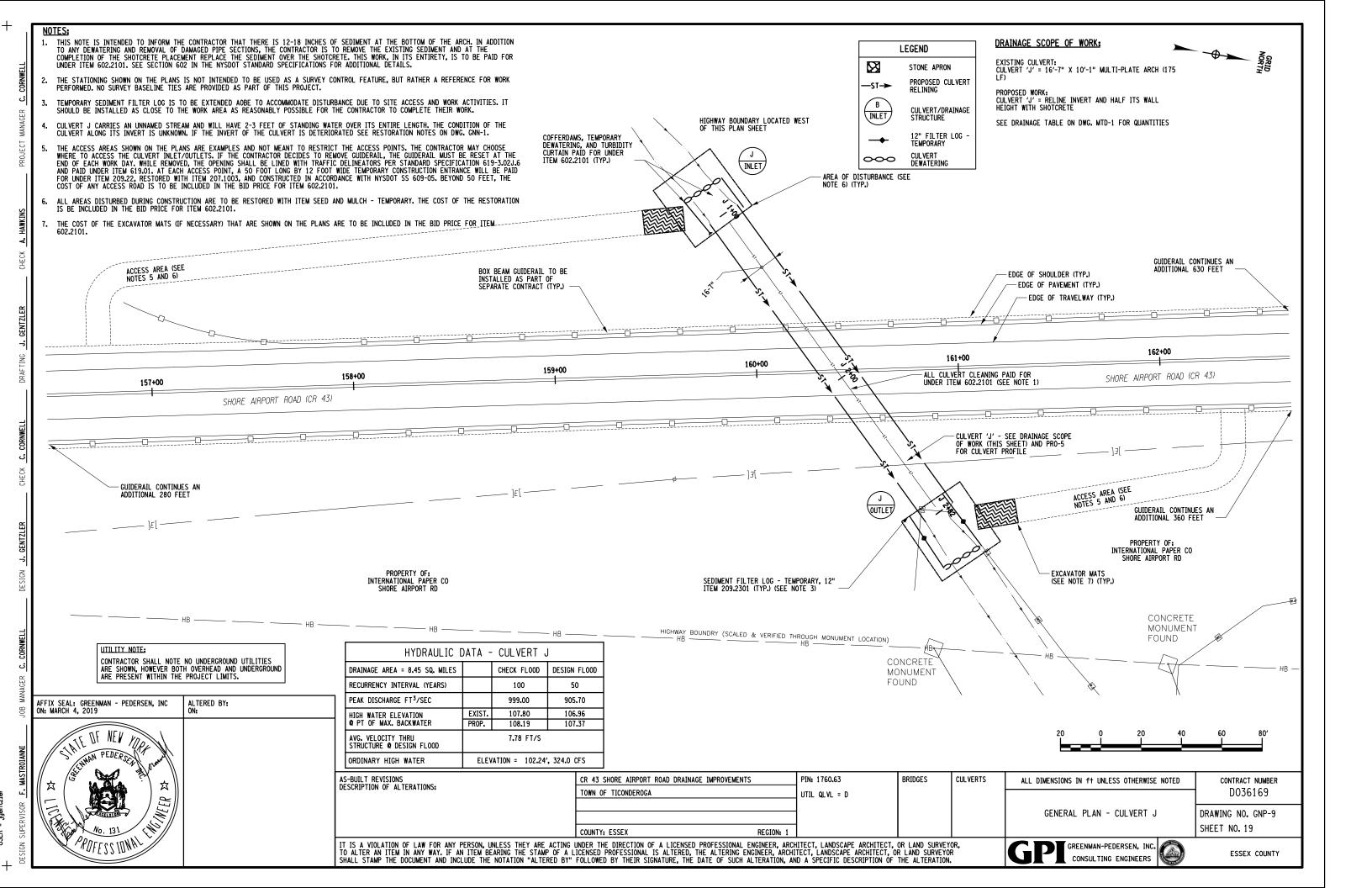


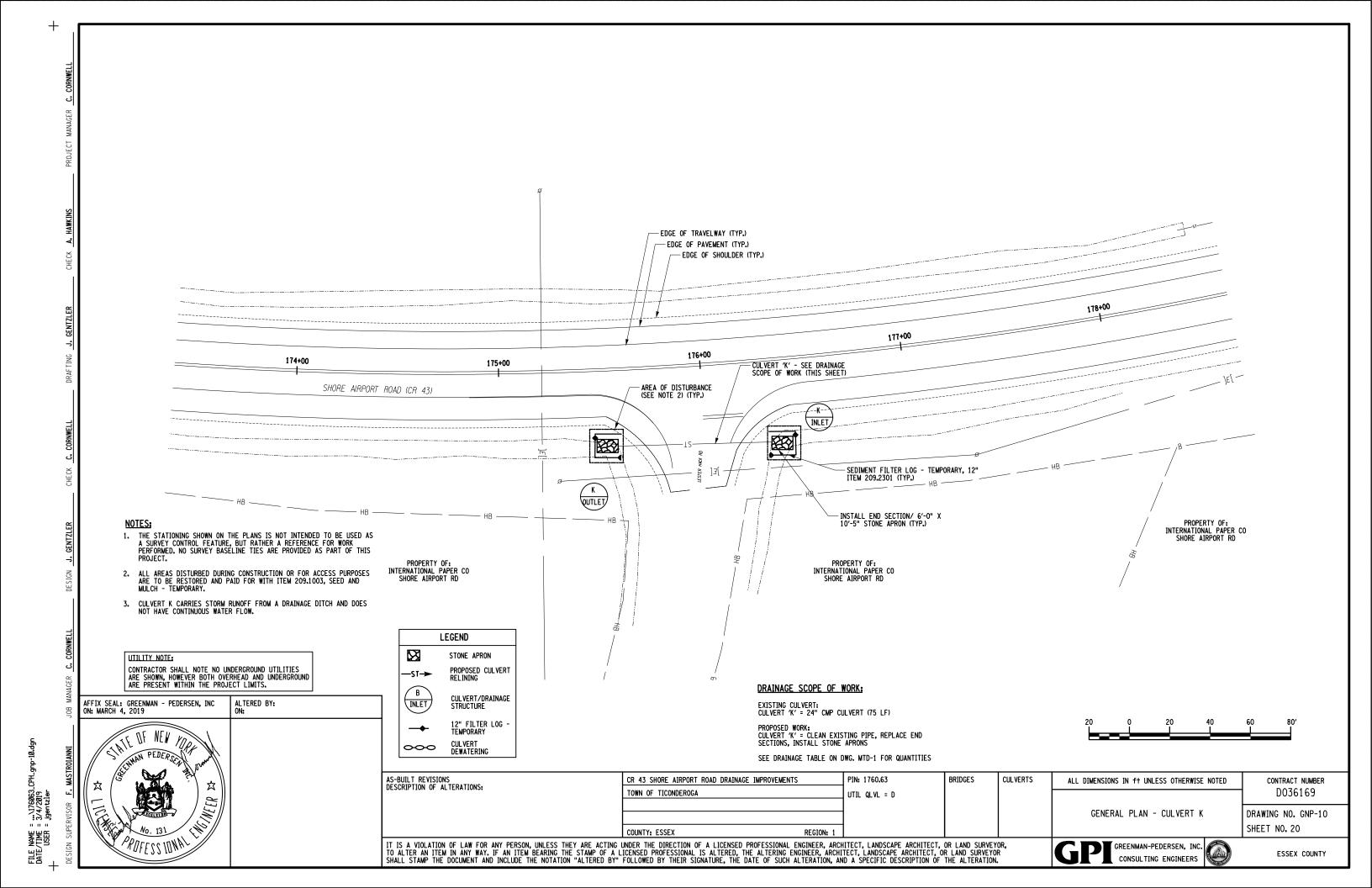


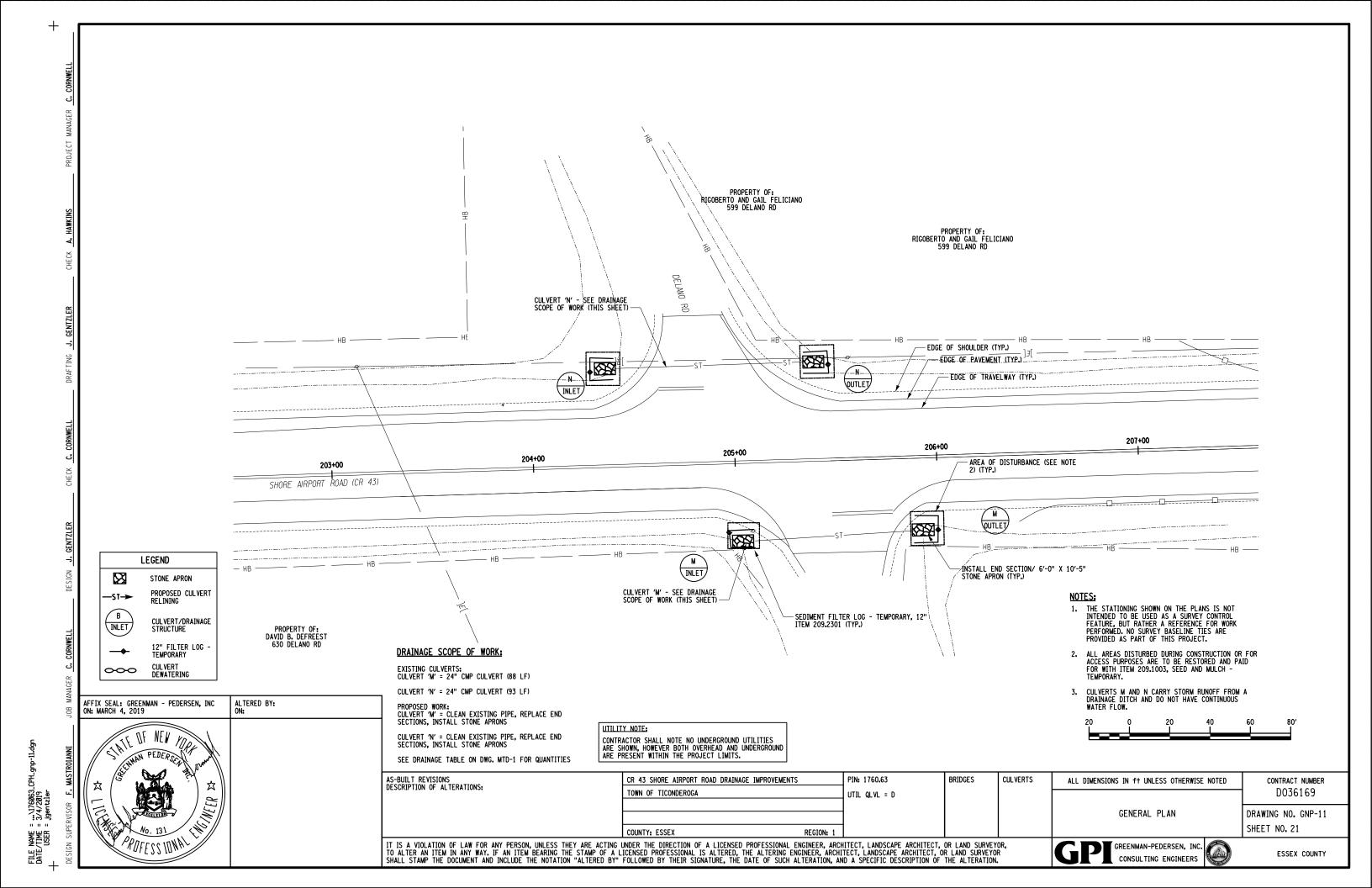


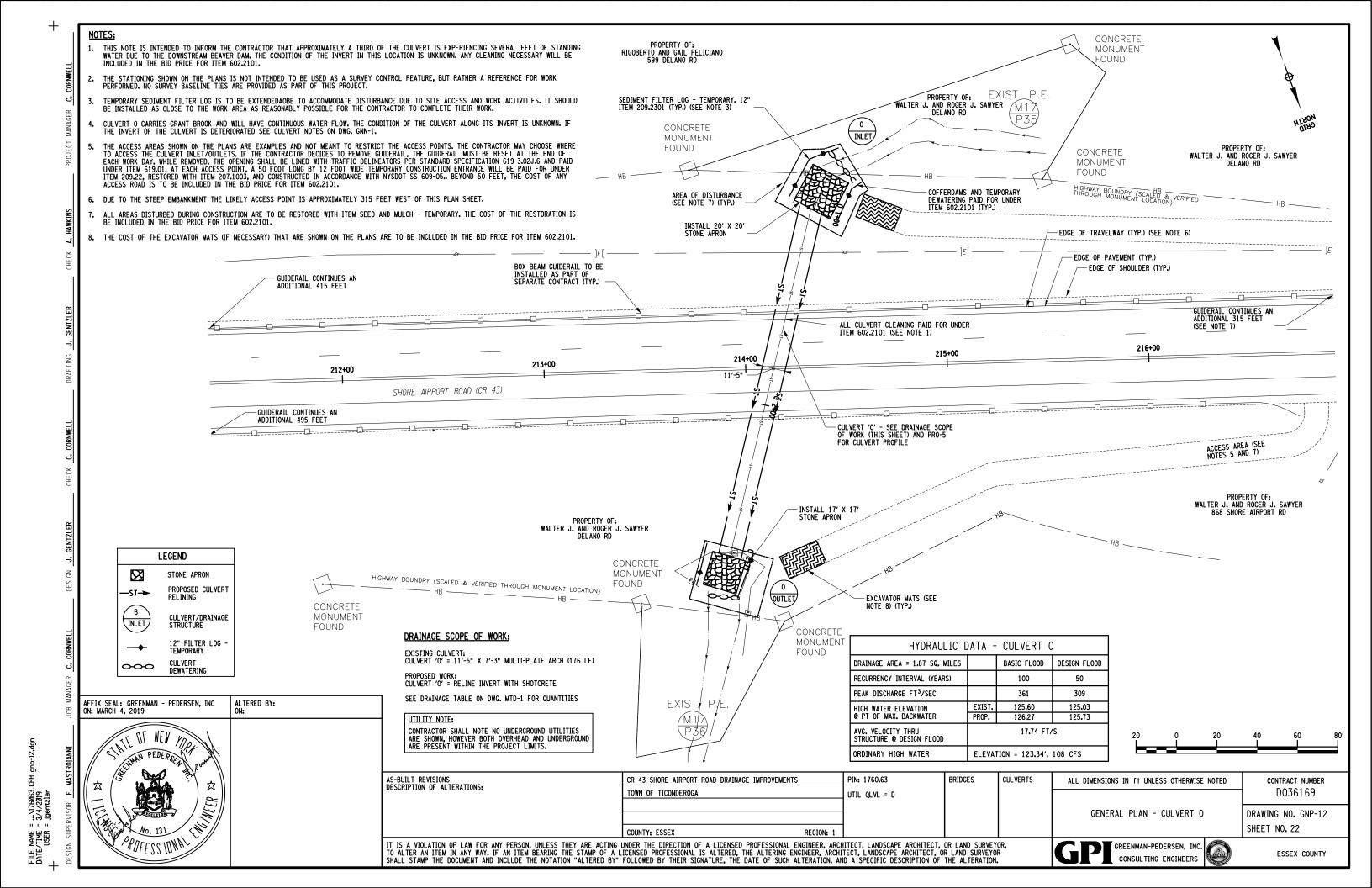


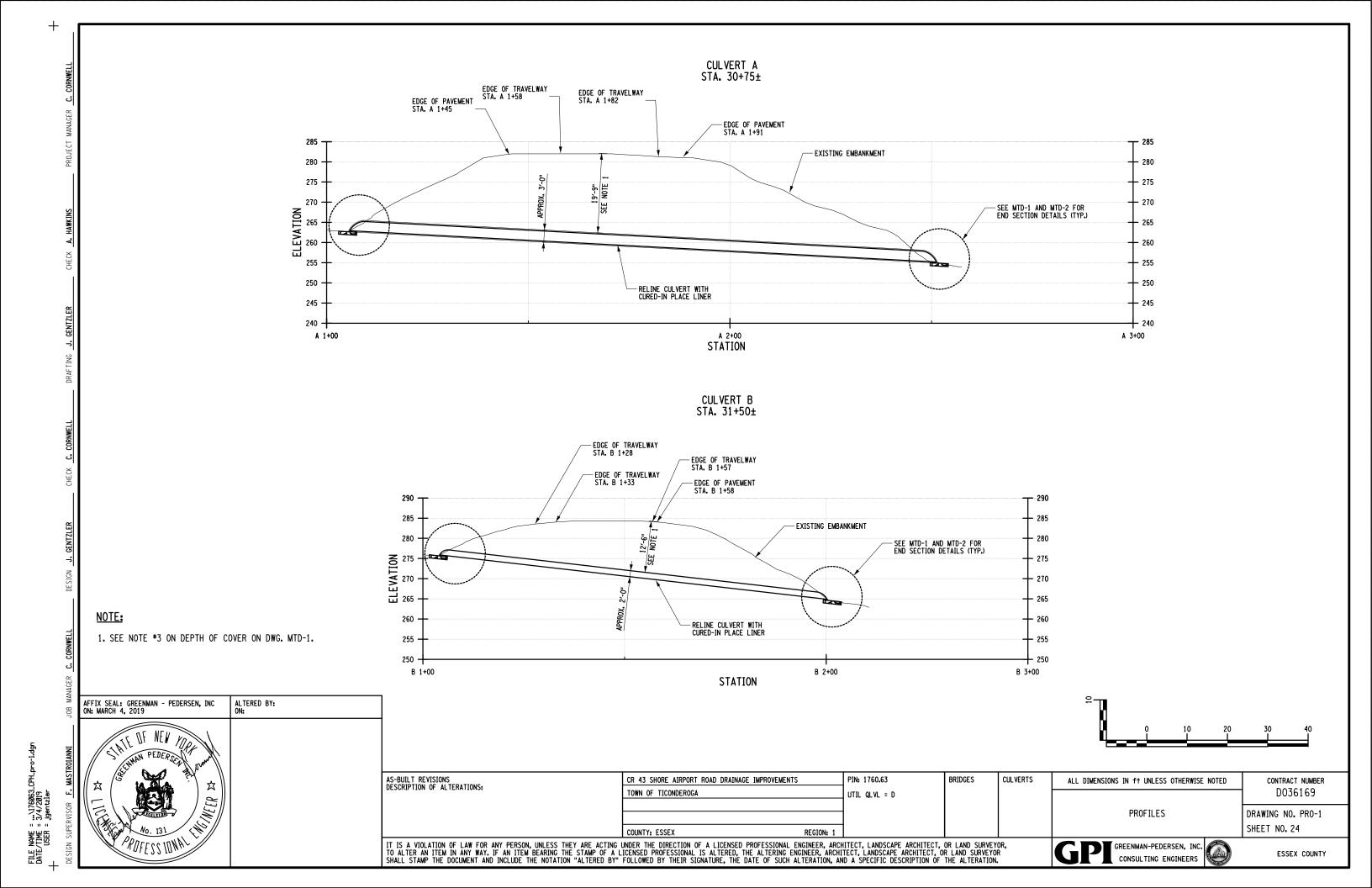


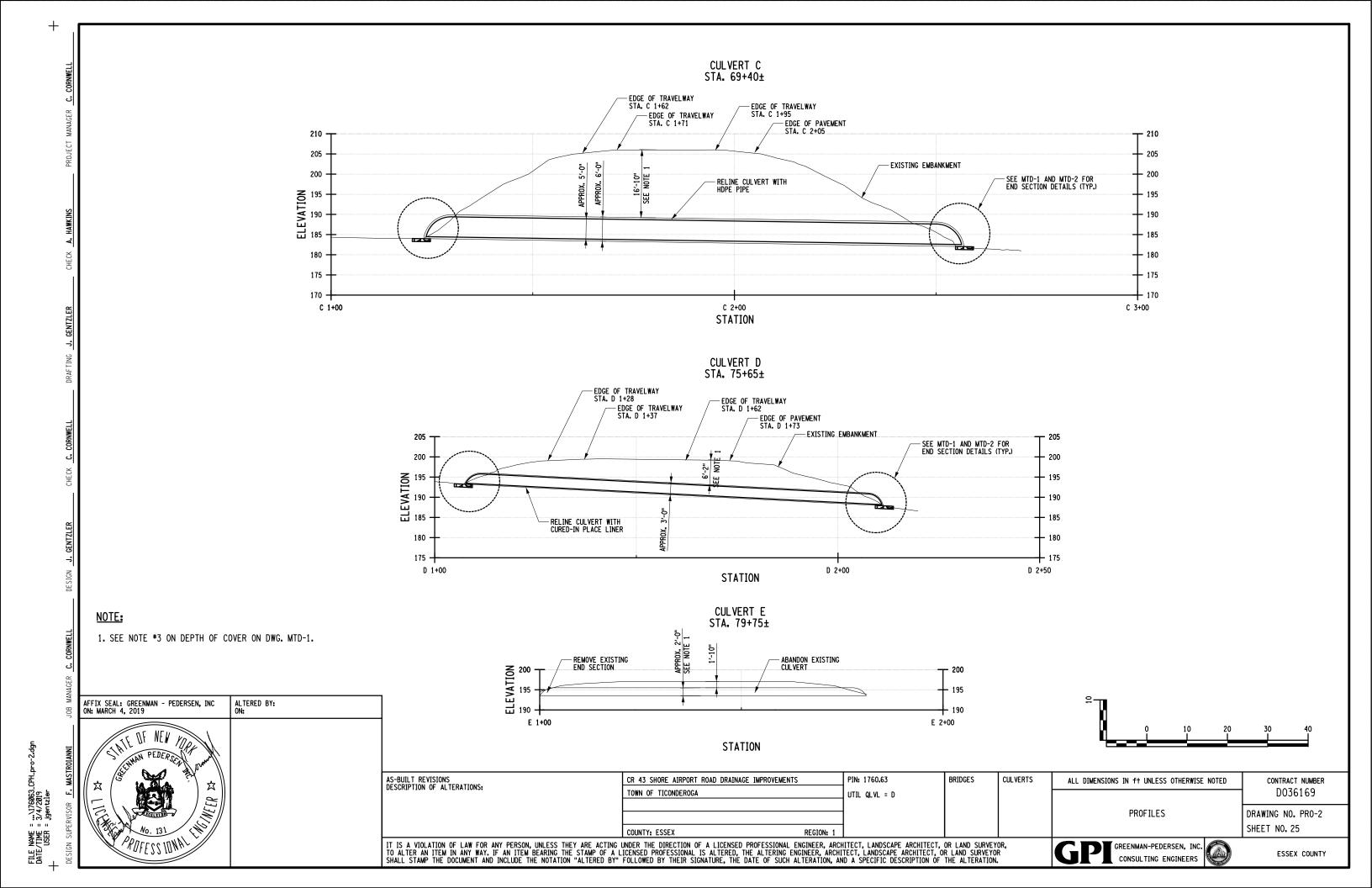


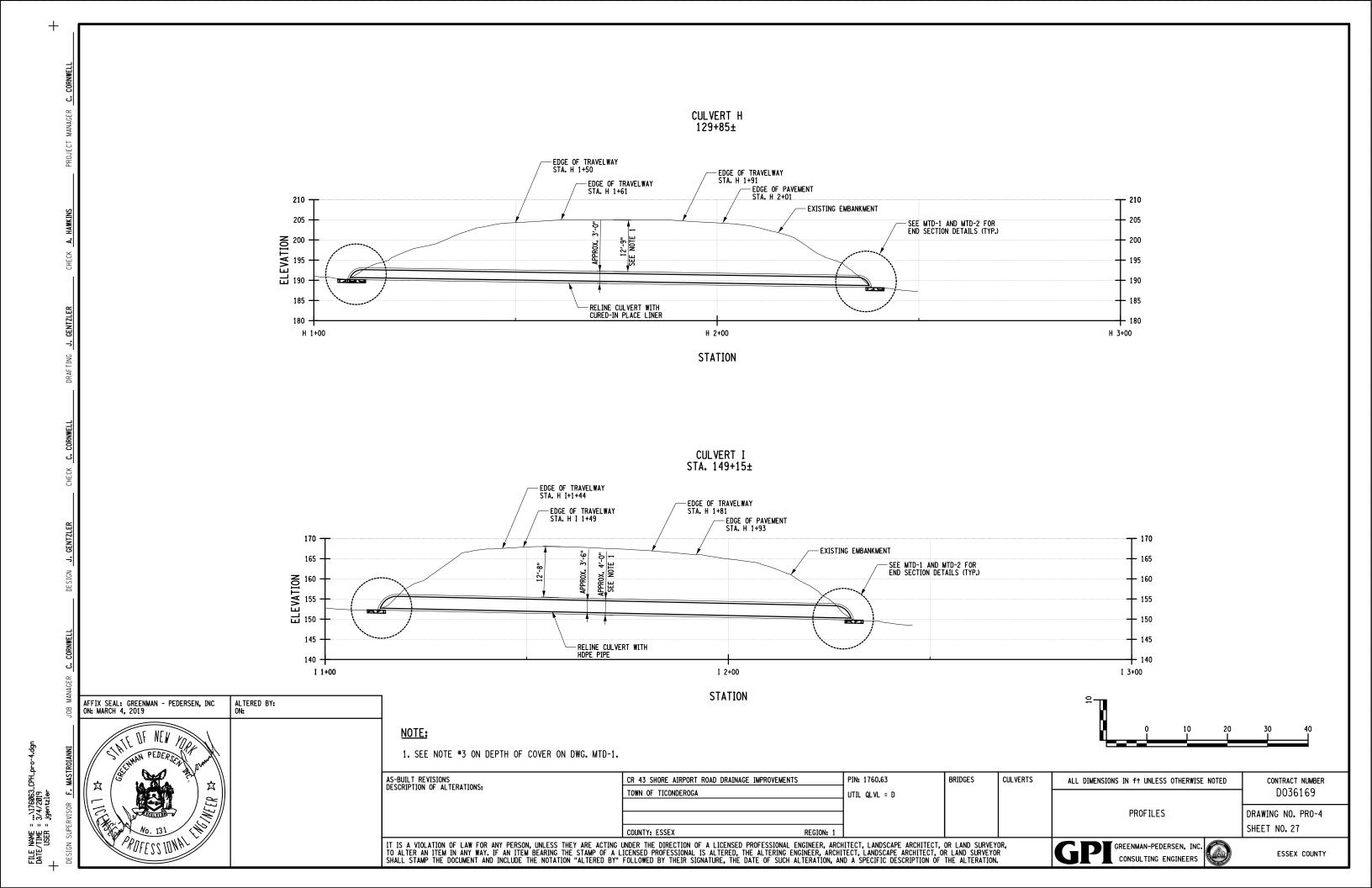


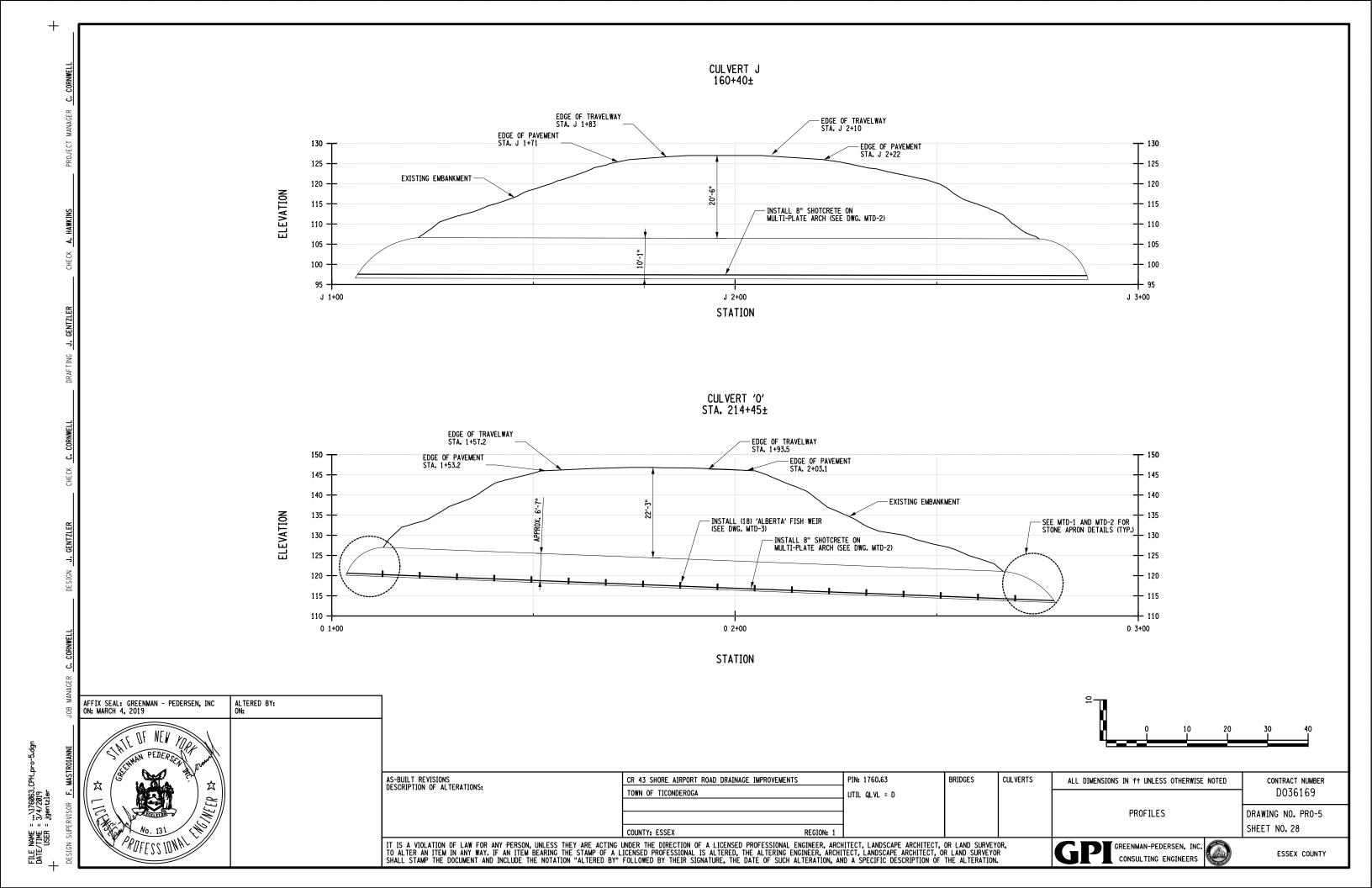












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	COUNTY: ESSEX	REGION: 1	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING			
TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A L SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY"			

CR 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS

TOWN OF TICONDEROGA

Description

Unit Quantity

CY

CY

CY

SY

SY

LF

SY

CY

CY

SF

LF

LF

LF

EA

EA

EA

EA

LF

CY

LS

CY

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CY

LF

LS

MNTH

DC

LB

DC

DC

BRIDGES

CULVERTS

PIN: 1760.63

UTIL QLVL = D

LF

25

10

550

2000

90

1700

1500

30

9000

125

330

180

550

10

8

2

4

90

45

25

200

1

200

100

100

270

1

4

3,000

2,000

100

100

NEC

DC 78,000

Item No.

203.07

204.01

206.0201

209.1003

209.2301

555.0105

602.2101

602.2742

602.2760

602.3624

602.3636

603.171416

603.171814

603.172012

603.172212

607.0522

610.1403

610.1602

619.01

620.03

620.08

625.01

637.11

637.34

656.01

697.03 698.05

698.06

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

209.22

209.18030124

555.10000006

CLEARING AND GRUBBING

TRENCH AND CULVERT EXCAVATION

SEDIMENT FILTER LOG - TEMPORARY, 12"

CONCRETE FOR STRUCTURES, CLASS A

LINING CULVERT WITH SHOTCRETE

SEED AND MULCH - TEMPORARY

CONSTRUCTION ENTRANCE

ABANDON EXISTING CULVERT

607.96000008 REMOVE AND DISPOSE OF EXISTING FENCE

STONE FILLING - (LIGHT)

BEDDING MATERIAL

SURVEY OPERATIONS

MISCELLANEOUS METALS

FUEL PRICE ADJUSTMENT

MOBILIZATION

620.29010009 NATIVE STREAM BED MATERIAL (A)

TURF ESTABLISHMENT - LAWNS

BASIC WORK ZONE TRAFFIC CONTROL

ENGINEER'S FIELD OFFICE - TYPE 1

FIELD CHANGE PAYMENT (FCP)

STEEL/IRON PRICE ADJUSTMENT

OFFICE TECHNOLOGY AND SUPPLIES

CLEANING CULVERTS WITH SPAN OF 50 IN. OR LESS

TOPSOIL - LAWNS

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

LINING WITH PROFILE WALL HIGH DENSITY POLYETHYLENE PIPE, 42 INCH DIAMETER

LINING WITH PROFILE WALL HIGH DENSITY POLYETHYLENE PIPE, 60 INCH DIAMETER

GALVANIZED STEEL END SECTIONS - PIPE (2-2/3" X 1/2" CORRUGATIONS) 24 INCH DIAMETER, 16 GAUGE

GALVANIZED STEEL END SECTIONS - PIPE (2-2/3" X 1/2" CORRUGATIONS) 36 INCH DIAMETER, 14 GAUGE

GALVANIZED STEEL END SECTIONS - PIPE (2-2/3" X 1/2" CORRUGATIONS) 48 INCH DIAMETER, 12 GAUGE

GALVANIZED STEEL END SECTIONS - PIPE (2-2/3" X 1/2" CORRUGATIONS) 72 INCH DIAMETER, 12 GAUGE

VINYL COATED STEEL CHAIN-LINK FENCE ON PLASTIC COATED FRAME WITH TOP TENSION WIRE 1830 MILLIMETER HIGH

LINING WITH CURED IN PLACE PIPE (CIPP), 24 INCH DIAMETER

LINING WITH CURED IN PLACE PIPE (CIPP), 36 INCH DIAMETER

SELECT GRANULAR FILL

VEGETATED MAT



ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ESSEX COUNTY

CONTRACT NUMBER

D036169

DRAWING NO. EOQ-1 SHEET NO. 28

CREENMAN-PEDERSEN INC	
ESTIMATE OF QUANTITIES	