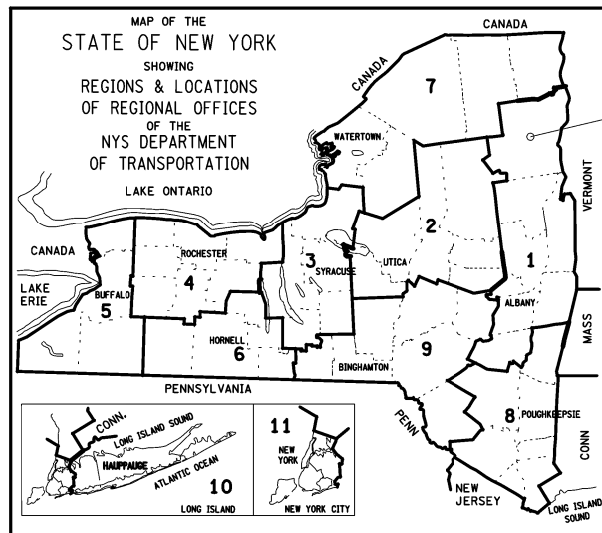


THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT 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 (AS 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 NYS DOT POLICIES AND GUIDELINES AND THE FINAL DESIGN REPORT APPROVED ON 11/25/2019.

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

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY ROUTE 10A (WATER STREET) - B.I.N. 3301700
 OVER
 THE BRANCH

P.I.N. 1760.51

F.A. PROJECT - BRIDGE REPLACEMENT PROJECT

CONTRACT D035818

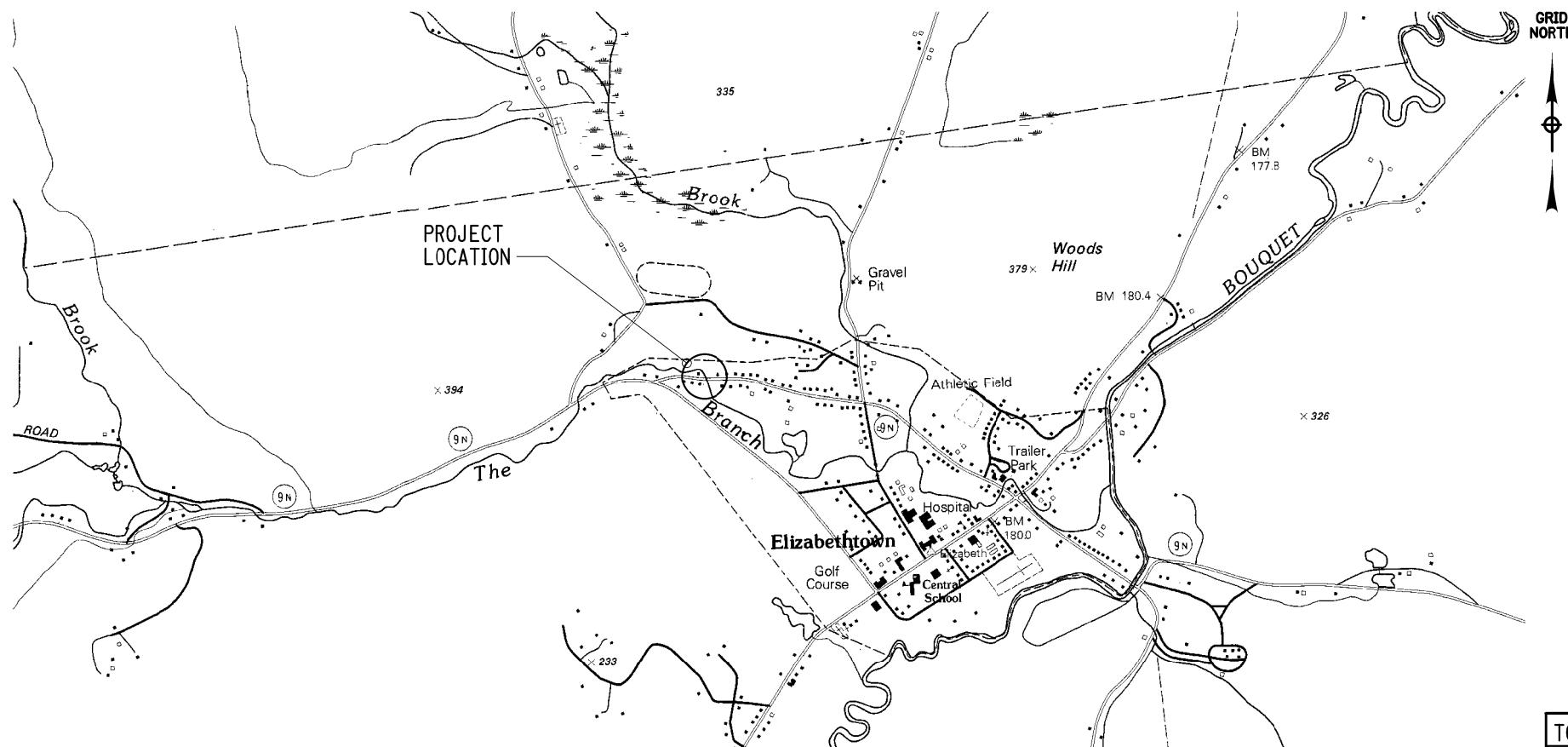
JUNE 2021

COUNTY ESSEX

PREPARED BY:



CONTRACTOR'S NAME _____	
AWARD DATE _____	
COMPLETION DATE _____	
FINAL ACCEPTANCE DATE _____	
REGIONAL DIRECTOR _____	
ENGINEER IN CHARGE _____	
FINAL COST TOTAL _____	
FISCAL SHARE	COST(S)



APRIL 16, 2021
 DATE
 MATTHEW T. SMULLEN, P.E.
 N.Y.S. P.E. LICENSE NO. 080043

RECOMMENDED BY

James E. Dougan 4/20/2021
 DATE
 JAMES DOUGAN
 SUPERINTENDENT
 ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

PROJECT LOCATION
 THE PROJECT IS LOCATED IN THE HAMLET OF ELIZABETHTOWN APPROXIMATELY 600 FEET EAST OF THE INTERSECTION WITH NYS ROUTE 9N AND APPROXIMATELY 1-MILE WEST OF THE INTERSECTION WITH US ROUTE 9. THE PROJECT IS LOCATED WITHIN THE ADIRONDACK PARK.

TOWN OF ELIZABETHTOWN		
B.I.N. 3301700		
C.R. 10A (WATER STREET) OVER THE BRANCH		
FEDERAL AID PROJECT		
COUNTY: ESSEX		
FED. ROAD REG. NO.	STATE	SHEET NO.
1	N.Y.	1 OF 61
CAPITAL PROJECT IDENTIFICATION NO.		1760.51
INDEX ON SHEET NO. 2		

ALIGNMENT		TOPOGRAPHY (MISCELLANEOUS)		UTILITIES	
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AH	AHEAD	ABUT	ABUTMENT	E	ELECTRIC
AZ	AZIMUTH	AOBE	AS ORDERED BY ENGINEER	EMH	ELECTRIC MANHOLE
BK	BACK	ASPH	ASPHALT	G	GAS
Ⓞ	BASELINE	BDY	BOUNDARY	GP	GUY POLE
BRG	BEARING	BLDG	BUILDING	GSB	GAS SERVICE BOX (HOUSE LINE)
Ⓒ	CENTERLINE	BM	BENCH MARK	GV	GAS VALVE (MAIN LINE)
CS	CURVE TO SPIRAL	CC	CENTER TO CENTER	HYD	HYDRANT
e	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	T	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 (HOUSE LINE)
PT	POINT OF TANGENT	GR	GRAVEL	WV	WATER VALVE (MAIN LINE)
PVC	POINT OF VERTICAL CURVE	HO	HOUSE	SUBSURFACE EXPLORATION	
PVI	POINT OF VERTICAL INTERSECTION	HWY	HIGHWAY		
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OR IRON PIPE	ABBR.	DESCRIPTION
R	RADIUS	MB	MAILBOX	REPLACE ABBREVIATION "AB" WITH:	
SC	SPIRAL TO CURVE	MON	MONUMENT	AH	HAND AUGER
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND WASHER	CP	CONE PENETROMETER
ST	SPIRAL TO TANGENT	OG	ORIGINAL GROUND	DA	2 1/4 INCHES CASED DRILL HOLE
STA	STATION	O/H	OVERHEAD	DM	DRILLING MUD
T	TANGENT LENGTH	P	PARCEL	DN	4 INCHES CASED DRILL HOLE
TGL	THEORETICAL GRADE LINE	PAV'T	PAVEMENT	FH	HOLLOW FLIGHT AUGER
TS	TANGENT TO SPIRAL	PE	PERMANENT EASEMENT	PA	POWER AUGER
VC	VERTICAL CURVE	PED POLE	PEDESTRIAN POLE	PH	PROBE
TOPOGRAPHY (DRAINAGE)		R	PROPERTY LINE	PT	PERCOLATION TEST HOLE
		POR	PORCH	RP	1 INCH SAMPLER (RETRACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RR	RAILROAD	SP	SEISMIC POINT
BC	BOTTOM OF CURB	RTE	ROUTE	TP	TEST PIT
BO	BOTTOM OF OPENING	ROW	RIGHT OF WAY	TO BE DEFINED AT THE TIME OF EXPLORATION	
CAP	CORRUGATED ALUMINUM PIPE	RW	RETAINING WALL	SP	SEISMIC POINT
CB	CATCH BASIN	SH	STATE HIGHWAY	TP	TEST PIT
CIP	CAST IRON PIPE	SHLDR	SHOULDER	ABBREVIATION "C" IN CATEGORIES: DA, DM, DN, AND FH WITH:	
Ⓒ STRM	CENTERLINE OF STREAM	SPK	SPIKE	B	BRIDGE
CMP	CORRUGATED METAL PIPE	ST	STREET	C	CUT
CP	CONCRETE PIPE	STK	STAKE	D	DAM
CSP	CORRUGATED STEEL PIPE	STY	STORY	F	FILL
CULV	CULVERT	SW	SIDEWALK	K	CULVERT
DIA	DIAMETER	TE	TEMPORARY EASEMENT	W	WALL
DMH	DRAINAGE MANHOLE	TO	TEMPORARY OCCUPANCY	X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE
DS	DRAINAGE STRUCTURE PIPE	U/G	UNDERGROUND		
D'XING	DITCH CROSSING	WW	WING WALL		
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				
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE				
TB	TOP OF BANK (STREAM)				
TC	TOP OF CURB				
TG	TOP OF GRATE				
VCP	VITRIFIED CLAY PIPE				

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
"	-	INCHES
'	LF	LINEAR FEET
mi	MI	MILES
ft ²	SF	SQUARE FEET
YD ²	SY	SQUARE YARD
AC	AC	ACRES
YD ³	CY	CUBIC YARD
GAL	GAL	GALLON
lb	LB	POUND
TON	TON	TON

STANDARD SHEETS

203-05	603-02	611-01	619-66	655-01
204-01	603-04	619-01	625-01	655-02
209-01	604-02	619-02	645-01	685-01
209-03	606-04	619-04	645-03	
402-01	608-01	619-10	646-13	
	608-03	619-11	646-16	
	609-01	619-12		
	609-02			

INDEX		TOTAL NUMBER OF SHEETS 61
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
1	TITLE SHEET	TITLE
2	INDEX AND ABBREVIATION	IN-1
3	LEGEND (1 OF 2)	LD-1
4	LEGEND (2 OF 2)	LD-2
5	GENERAL NOTES	GN-1
6	ESTIMATE OF QUANTITIES	EQ-1
7	SURVEY CONTROL PLAN	SV-1
8	BASELINE TIE DIAGRAMS	SV-2
9	MISCELLANEOUS MICROPILE DETAILS AND NOTES	MP-1
10	MISCELLANEOUS TABLES	TB-1
11	MISCELLANEOUS DETAILS	MD-1
12	UTILITY DETAILS	UT-1
13 TO 15	EROSION AND SEDIMENT CONTROL PLANS	ES-1 TO ES-3
16	WORK ZONE TRAFFIC CONTROL PLAN AND NOTES	TC-1
17	WORK ZONE TRAFFIC CONTROL DATA TABLE AND DETAILS	TC-2
18	ROADWAY PLAN (1 OF 3)	RD-1
19	ROADWAY PLAN (2 OF 3)	RD-2
20	ROADWAY PLAN (3 OF 3)	RD-3
21	ROADWAY PROFILE (1 OF 2)	PR-1
22	ROADWAY PROFILE (2 OF 2)	PR-2
23	TYPICAL SECTIONS (1 OF 3)	TS-1
24	TYPICAL SECTIONS (2 OF 3)	TS-2
25	TYPICAL SECTIONS (3 OF 3)	TS-3
26	GENERAL PLAN AND ELEVATION	ST-1
27	EXCAVATION AND EMBANKMENT PLAN	ST-2
28	EXCAVATION AND EMBANKMENT SECTIONS (1 OF 2)	ST-3
29	EXCAVATION AND EMBANKMENT SECTIONS (2 OF 2)	ST-4
30	SOIL BORING LOGS	ST-5
31	WEST ABUTMENT PLAN, ELEVATION AND SECTION	ST-6
32	EAST ABUTMENT PLAN, ELEVATION AND SECTION	ST-7
33	WEST ABUTMENT REINFORCING PLAN, ELEVATION AND SECTION	ST-8
34	WEST ABUTMENT REINFORCING PLANS AND DETAILS	ST-9
35	WEST ABUTMENT WINGWALL REINFORCING PLANS, ELEVATIONS AND SECTIONS	ST-10
36	EAST ABUTMENT REINFORCING PLAN, ELEVATION AND SECTION	ST-11
37	EAST ABUTMENT REINFORCING PLANS AND DETAILS	ST-12
38	EAST ABUTMENT WINGWALL REINFORCING PLANS, ELEVATIONS AND SECTIONS	ST-13
39	TRANSVERSE SECTION AND DETAILS	ST-14
40	SUPERSTRUCTURE LAYOUT	ST-15
41	B48" X 39" BOX BEAM DETAILS (1 OF 2)	ST-16
42	B48" X 39" BOX BEAM DETAILS (2 OF 2)	ST-17
43	PRESTRESSED CONCRETE BOX BEAM BARLIST AND DETAILS	ST-18
44	MISCELLANEOUS BOX BEAM DETAILS	ST-19
45	BEARING DETAILS	ST-20
46	DECK SLAB REINFORCING PLAN AND DETAILS	ST-21
47	CONCRETE SIDEWALK AND PARAPET REINFORCEMENT PLAN	ST-22
48	APPROACH SLAB REINFORCING PLAN AND DETAILS	ST-23
49	GUIDE RAILING LAYOUT	ST-24
50	CONCRETE PARAPET DETAILS (NORTH PARAPET)	ST-25
51	CONCRETE PARAPET DETAILS (SOUTH PARAPET)	ST-26
52 TO 58	RAILING DETAILS	ST-27 TO ST-33
59	BARLIST (1 OF 2)	ST-34
60	BARLIST (2 OF 2)	ST-35
61	BAR BENDING DIAGRAMS	ST-36

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C			INDEX AND ABBREVIATIONS	DRAWING NO. IN-1
TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 2 OF 61
COUNTY: ESSEX	REGION: 1				



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PROJECT MANAGER GWN
 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN

ALIGNMENT			LANDSCAPE			ROADWAY			TRAFFIC WORK ZONE		
STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)		LABL	AREA, BRUSH LINE		RCZ_P	CLEAR ZONE		TWZBT_P	BARRIER, TEMPORARY
	AD_P	DETOUR		LAHR	AREA, HEDGE ROW		RG	GUIDE RAIL, MISCELLANEOUS		TWZBTWL_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	AT_P	TRANSITION CONTROL		LAPB	AREA, PLANTING BED		RGB	GUIDE RAIL, BOX BEAM		TWZCD_P	CHANNELIZING DEVICE
BRIDGE				LAWA	AREA, WOODED AREA OUTLINE		RGBM	GUIDE RAIL, BOX BEAM, MEDIAN		TWZPMRC_P	PAVEMENT MARKING REMOVAL OR COVERING
	BR	RAIL		LAWE	AREA, WATERS EDGE		RGC	GUIDE RAIL, CABLE	UTILITIES		
	BSHT	SHEET PILING		LCUT_P	CUT LIMIT		RGCB	GUIDE RAIL, CONCRETE BARRIER	STYLE	NAME	DESCRIPTION
CONTROL				LFILL_P	FILL LIMIT		RGP_P	GUIDE POST		UC	CONDUIT, UNDERGROUND
	CB	BASELINE		LFNC	FENCE		RGW	GUIDE RAIL, W BEAM		UCH	CONDUIT, HANGING
	CBPR	BASELINE, PROJECTION		LTRC	TREE ROW, CONIFEROUS		RGWM	GUIDE RAIL, W BEAM, MEDIAN		UCO	CONDUIT, OVERHEAD
DRAINAGE				LTRD	TREE ROW, DECIDUOUS		RPB	PARKING BUMPER		UE	ELECTRIC LINE, UNDERGROUND
	DCP	CULVERT PIPE		LWH	WALL, H PILE		RRC	RAIL ROAD, CATENARY		UEH	ELECTRIC LINE, HANGING
	DCP_P	CULVERT PIPE (DIR)		LWR	WALL, RETAINING		RRER	RAIL ROAD, 3RD RAIL		UEO	ELECTRIC LINE, OVERHEAD
	DDG_P	DITCH, GRASS LINED		LWS	WALL, STONE		RRPLS_P	RAIL, PHOTO, LARGE SCALE		UETO	ELECTRIC TRANSMISSION, OVERHEAD
	DDP_P	DITCH, PAVED INVERT	ROW MAPPING				RRPSS	RAIL, PHOTO, SMALL SCALE		UESS	ELECTRIC, SUBSTATIONS
	DDS_P	DITCH, STONE LINED		MDL	DEED LINE		RRPSS	RAIL, PHOTO, SMALL SCALE		UFO	FIBER OPTIC, UNDERGROUND
	DFL_P	FLOW LINE		MEE	EASEMENT, EXISTING		RRS	RUMBLE STRIP		UFOH	FIBER OPTIC, HANGING
	DSSD	SLOTTED DRAIN		MEP_P	EASEMENT, PERMANENT		RRSLS_P	RAIL, SURVEY, LARGE SCALE		UFOO	FIBER OPTIC, OVERHEAD
	DUD_P	UNDERDRAIN		MEPA_P	EASEMENT, PERMANENT, APPROX.		RRSSS	RAIL, SURVEY, SMALL SCALE		UG	GAS, UNDERGROUND
ENVIRONMENTAL				MET_P	EASEMENT, TEMPORARY	SIGNS				UGH	GAS, HANGING
	EBLHS	BALE, STRAW		META_P	EASEMENT, TEMPORARY, APPROX.		SBLB	BILLBOARDS		UGO	GAS, OVERHEAD
	ECT	CURTAIN, TURBIDITY		MF_P	FEE ACQUISITION, W/ ACCESS		SM	MULTIPLE POST		UIC	INFORM CABLE, UNDERGROUND
	EDMC	DAM, COFFER		MFA_P	FEE ACQUISITION, APPROXIMATE		SSO	STRUCTURE, OVERHEAD		UICH	INFORM CABLE, HANGING
	EDMEC_P	DAM, EARTHEN CHECK		MFS_P	FEE ACQUISITION, SHAPE		SSOC	STRUCTURE, OVHD. CANTILEVER		UO	OIL LINE, UNDERGROUND
	EDMGC_P	DAM, GRAVEL BAG/SAND BAG CHECK		MFWOA_P	FEE ACQUISITION, W/O ACCESS	STRIPING				UOH	OIL LINE, HANGING
	EDMPC_P	DAM, PREFABRICATED CHECK		MHA	HISTORICAL, ACQUISITION		STB*	BROKEN LINE		UPBP	POLE, BRACE, PUSH BRACE
	EDMSC_P	DAM, STONE CHECK		MHB	HIGHWAY BOUNDARY		STDB*	DOUBLE BROKEN LINE		UPGW	POLE, GUY WIRE
	EFNS	FENCE, SILT		MHBA	HIGHWAY BOUNDARY, APPROX.		STDL*	DOTTED LINE LONG		USA	SANITARY SEWER, UNDERGROUND
	EFNSV	FENCE, SILT & VEGETATION		MHBW	HWY BOUNDARY, FACE OF WALL		STDS*	DOTTED LINE SHORT		USAH	SANITARY SEWER, HANGING
	EFNV	FENCE, VEGETATION		MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STFB*	FULL BARRIER LINE		USAF	SANITARY SEWER, FORCE MAIN, UGND
	EWAA_P	WETLAND, ADJACENT AREA		MJC	JURISDICTION, CITY		STFH*	HATCH LINE		USAFH	SANITARY SEWER, FORCE MAIN, HANG
	EWf	WETLAND, FEDERAL		MJCY	JURISDICTION, COUNTY		STHP*	PARTIAL BARRIER LINE		UT	TELEPHONE, UNDERGROUND
	EWFS	WETLAND, FEDERAL AND STATE		MJHD	JURISDICTION, HISTORIC DISTRICT		STPB*	ROUNDABOUT, CAT TRACKS		UTH	TELEPHONE, HANGING
	EWM	WETLAND, MITIGATION AREA		MJLL	JURIS., (GREAT, MILITARY) LOT LINE		STRCT	ROUNDABOUT, YIELD LINE		UTO	TELEPHONE, OVERHEAD
	EWS	WETLAND, STATE		MJN	JURISDICTION, NATION		STRYL	ROUNDABOUT, YIELD LINE		UTV	CABLE TV, UNDERGROUND
				MJPB	JURISDICTION, PUBLIC LANDS		STSB	STOP BAR		UTVH	CABLE TV, HANGING
				MJS	JURISDICTION, STATE		STSE*	SOLID, EDGE		UTVO	CABLE TV, OVERHEAD
				MJT	JURISDICTION, TOWN		STXL	X WALK, LADDER LINE		UUU	UNKNOWN, UNDERGROUND
				MJV	JURISDICTION, VILLAGE		STXLB	X WALK, LADDER BAR LINE		UUH	UNKNOWN, HANGING
				MPL	PROPERTY LOT LINE					UUO	UNKNOWN, OVERHEAD
				MPLA	PROPERTY LOT LINE, APPROXIMATE					UW	WATER LINE, UNDERGROUND
				MSL	SUB LOT LINE					UWH	WATER LINE, HANGING
										UWO	WATER LINE, OVERHEAD

- THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
- FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
- FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
- PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).
- MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
- FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C	3301700		LEGEND (1 OF 2) WATER STREET OVER THE BRANCH	D035818
TOWN: ELIZABETHTOWN					DRAWING NO. LD-1
COUNTY: ESSEX	REGION: 1				SHEET NO. 3 OF 61



ALIGNMENT			DRAINAGE			ITS			ROW MAPPING			SIGNS			UTILITIES		
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION
⊗	ACC	CENTER OF CURVATURE	+	DINV	INVERT	⊕	IANT P	ANTENNAS	⊕	MDL1P	DEED LINE, TYPE 1	⊕	S	SINGLE POST	⊕	UEB	ELECTRIC, BOX
+	ACOGO	COGO	▭	DS	STRUCTURE, RECTANGULAR	⊕	IASCTS	ACCOU. SPEED/COUNT SNSR.S	⊕	MDL2P	DEED LINE, TYPE 2	⊕	S_P	SINGLE POST, PROPOSED	⊕	UEM	ELECTRIC, METER
⊙	ACS	CURVE TO SPIRAL	+	DSI	STRUCTURE, INVERT	⊕	ICABPAD	CABINET & PAD	⊕	MDL3P	DEED LINE, TYPE 3	⊕	SB_P	BACK TO BACK, PROPOSED	⊕	UEMH	ELECTRIC, MANHOLE
△	ADPL_P	DETOUR, POINT OF INTERSECT.	⊕	DSM	STRUCTURE, MANHOLE	⊕	ICCTV	CCTV SITE	⊕	MDL4P	DEED LINE, TYPE 4	⊕	SDEL	DELINEATORS	⊕	UEPT	ELECTRIC, POLE, TRANS.
⊙	ADPL_P	DETOUR, POINT ON LINE	⊕	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96	⊕	ICDPD	CDPD TRANSCEIVER	⊕	MDL5P	DEED LINE, TYPE 5	⊕	SPM	PARKING METER	⊕	UGM	GAS, METER
⊙	AEQN	EQUATION	⊕	DSR	STRUCTURE, ROUND	⊕	ICELLT	CELL PHONE TOWER	⊕	MEEP	EASEMENT, EXISTING	⊕	SRM	REFERENCE MARKERS	⊕	UGMH	GAS, MANHOLE
⊕	AEQNAHD	EQUATION AHEAD	⊕	DST"X"CB P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICJUB	CONDUIT JACK OR BORING	⊕	MEPAP_P	EASEMENT, PERM., APPROX.	⊕	SRSC3	SHLD, CTY, 123 DIG.	⊕	UGLM	GAS, LINE MARKER
⊕	AEQNBK	EQUATION BACK	⊕	DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U	⊕	ICNTLCAB	CONTROLLER CABINET	⊕	MEPP_P	EASEMENT, PERM., BACK LINE	⊕	SRSC4	SHLD, CTY, 4 DIG.	⊕	UGP	GAS/FUEL PUMP
⊕	AEVT	EVENT STATION	ENVIRONMENTAL			⊕	ICPB	COMMUNICATION PULL BOX	⊕	MEPSP_P	EASEMENT, PERM., SHAPE	⊕	SRSC2	SHLD, CTY TOUR, 1-2 DIG.	⊕	UGV	GAS, VALVE
⊕	APC	POINT OF CURVATURE				⊕	ICTD	CONDUIT TURNING DOWN	⊕	MFAP_P	FEE ACQUISITION, APPROX.	⊕	SRSC4	SHLD, CTY TOUR, 3-4 DIG.	⊕	UGVT	GAS, VENT
⊕	APCC	POINT OF COMPOUND CURVATURE	GEOTECHNICAL			⊕	ICTU	CONDUIT TURNING UP	⊕	MFP_P	FEE ACQUISITION, BACK LINE	⊕	SRSI	SHLD, INTERSTATE	⊕	ULP	LIGHTING, POLE
△	API	POINT OF INTERSECTION				⊕	ICVTRT	COMM. VEH. ROAD TRANSCEIVER	⊕	MFSP_P	FEE ACQUISITION, SHAPE	⊕	SRSN2	SHLD, NATIONAL, 2 DIG.	⊕	ULPM	LIGHTING, POLE, MEDIAN
△	APOB	POINT OF BEGINNING	LANDSCAPE			+	IDEFAULT	DEFAULT	⊕	MHBAP	HIGHWAY BNDRY., APPROX.	⊕	SRSN3	SHLD, NATIONAL, 3 DIG.	⊕	ULPP	LIGHTING, POLE, PED.
⊙	APOC	POINT OF CURVATURE				⊕	IEZR	E-ZPASS READER	⊕	IEZTR	TRANSMITTAL READER	⊕	MHBCP	HISTORICAL, BLDG. CORNERS	⊕	SRSS2	SHLD, STATE, 2 DIG.
△	APOE	POINT OF END	⊕	EIOP_P	STR., INLET, OUTLET PROT.	⊕	IEZTR	TRANSMITTAL READER	⊕	MHBP	HIGHWAY BNDRY, PT.	⊕	SRSS3	SHLD, STATE, 3 DIG.	⊕	UOLM	OIL, LINE MARKER
⊙	APOL	POINT ON LINE	⊕	EIPGB_P	STR., INLET PROT., GRAVEL BAG	⊕	IFXCAB	FIBER OPTIC X-CONNECT CABINET	⊕	MJCP	PT., JURIS. CITY	⊕	SRSS4	SHLD, STATE, 4 DIG.	⊕	UP	POLE, WITH UTILITY
⊙	APOS	POINT ON SPIRAL	⊕	EIPHS_P	STR., INLET PROT., HAY/STRAW	⊕	IFUSSPL	FUSION SPLICE	⊕	MPBC	PT., BUILDING CORNER	TRAFFIC CONTROL			⊕	UPD	POLE, DEAD (NO UTILITY)
⊙	APOT	POINT ON TANGENT	⊕	EIPP_P	STR., INLET PROT., PREFAB.	⊕	IHARADV	HAR ADVISORY SIGN	⊕	MPCC	PT., CROSS CUT				⊕	UPL	POLE, WITH LIGHT
△	APOVC	POINT ON VERTICAL CURVE	⊕	EIPSF_P	STR., INLET PROT., SILT FENCE	⊕	IHARST	HAR SITE	⊕	MPDH	PT., DRILL HOLE	⊕	TCBJ	BOX, JUNCTION	⊕	USMH	SANITARY SEWER MANHOLE
△	APOVT	POINT ON VERTICAL TANGENT	⊕	ERCB	RISER, CONCRETE BOX	⊕	ILC	LOAD CENTER	⊕	MPF	PT., FENCE LOCATION	⊕	TCBP	BOX, PULL BOX	⊕	UTB	TELEPHONE, BOOTH
Y	APORC	POINT ON REVERSE CURVE	⊕	ETRS_P	TRAP, SEDIMENT	⊕	IMECSPL	MECHANICAL SPLICE	⊕	MPIP	PT., IRON PIPE	⊕	TCBS	BOX, SPLICE	⊕	UTLM	TELEPHONE, LINE MARKER
⊕	APT	POINT OF TANGENCY	+	EWFG	WETLAND FLAG	⊕	IMSCS	PORT. SPEED & COUNT SENSOR	⊕	MPIR	PT., IRON ROD	⊕	TCMC	MICROCOMPUTER CABINET	⊕	UTMH	TELEPHONE, MANHOLE
⊕	APVC	POINT OF VERTICAL CURVATURE	BRIDGE			⊕	IMSCS	PORT. SPEED & COUNT SENSOR	⊕	MPM	PT., MONUMENT	⊕	TCPP	PED POLE	⊕	UTVLM	CABLE TV, LINE MARKER
△	APVCC	POINT OF VERT. CMPND CURVE				⊕	IMSCS	MICRO SPEED & COUNT SENSOR	⊕	IMT	MICROWAVE TRANSCEIVER	⊕	MPMM	PT., MONUMENT, MISC.	⊕	TCSH	SIGNAL HEADS
⊕	APVI	POINT OF VERT. INTERSECTION	CONTROL			⊕	IOVHMS	PERM. OVERHEAD VMS	⊕	MPN	PT., NAIL	⊕	TCSH	SIGNAL HEADS	⊕	UUB	UNKNOWN, BOX
△	APVRC	POINT OF VERT. REVERSE CURVE				⊕	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	⊕	IPEDS	PEDESTRIAN SIGNAL HEAD	⊕	MPRS	PT., RAILROAD SPIKE	⊕	TCSH	SIGNAL HEADS
⊕	APVT	POINT OF VERTICAL TANGENCY	UTILITY			⊕	IPSS	PAVEMENT SURFACE SENSOR	⊕	MPSP	PT., SPIKE	⊕	TCSH	SIGNAL HEADS	⊕	UUMH	UNKNOWN, MANHOLE
⊕	ASC	SPIRAL TO CURVE				⊕	IPSS	PAVEMENT SURFACE SENSOR	⊕	IPSS	PAVEMENT SURFACE SENSOR	⊕	MPST	PT., STAKE	⊕	TCSH	SIGNAL HEADS
⊕	ASPI	SPIRAL POINT OF INTERSECTION	+	LELS	ELEVATION, SPOT	⊕	IPVMS	PERM. VMS	⊕	MPTW	PT., TREE W/ WIRE	⊕	TCSH	SIGNAL HEADS	⊕	UUVL	UNKNOWN, VALVE
⊙	ASTS	SPIRAL TO SPIRAL	⊕	LFP	FLAG POLE	⊕	IRM	RAMP METER	⊕	MPWL	PT., WALL LOCATION	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
⊕	AST	SPIRAL TO TANGENT	⊕	LMB	MAILBOX	⊕	IRWIS	RDWY WEATHER INFO. SENSOR	ROW ACQUISITION			⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
⊕	ATS	TANGENT TO SPIRAL	⊕	LMB	MAILBOX	⊕	ISP	SOLAR PANEL				⊕	MFS_P.T	FEE ACQUISITION	⊕	TCSH	SIGNAL HEADS
△	AVEVT	VERTICAL EVENT POINT	⊕	LPB	PAPER BOX	⊕	ISST	SPREAD SPECT. TRANSCEIVER	⊕	MEPS_P.T	EASEMENT, PERMANENT	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
⊙	AVHIGH	VERTICAL HIGH POINT	⊕	LPST	POST, SINGLE	⊕	ITDB	TELEPHONE DEMARCATION BLK	⊕	METS_P.T	EASEMENT, TEMPORARY	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
⊙	AVLOW	VERTICAL LOW POINT	⊕	LRB	ROCK, BOULDER	⊕	ITP	SUBSURFACE TEMP. PROBE	⊕	METS_P.T	OCCUPANCY, TEMPORARY	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
BRIDGE			⊕	LSHC	SHRUB, CONIFEROUS	⊕	IVTRT	VEHICLE TO RDWY TRANSCEIVER	⊕	MFS_P.T	FEE ACQUISITION W/O ACCESS	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
			⊕	LSDH	SHRUB, DECIDUOUS	⊕	IWIMD	WEIGHT IN MOTION DETECTOR	⊕	MFS_P.T	FEE ACQUISITION W/O ACCESS	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
⊕	BSC	BRIDGE, SCUPPER	⊕	LTC	TREE, CONIFEROUS	⊕	IWVR	WIRELESS VIDEO REPEATER	ROADWAY			⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
CONTROL			⊕	LTD	TREE, DECIDUOUS	⊕	IWVRC	WIRELESS VIDEO RECEIVER				⊕	RES P	ELEVATION, SPOT	⊕	TCSH	SIGNAL HEADS
			⊕	CBP	BASELINE, POINT	+	LTS	TREE, STUMP	⊕	IWVTT	WIRELESS VIDEO TRANSMITTER	⊕	RGA	GUIDE RAIL, ANCHOR	⊕	TCSH	SIGNAL HEADS
⊙	CBPOL	BASELINE, POINT ON LINE	+	LTKP	UNKNOWN POINT	1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED). 2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.). 3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES. 4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS). 5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS. 6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.			⊕	RGP	GUIDE POST, SINGLE	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
⊕	CBSP	BASELINE, SPUR POINT	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX REGION: 1						⊕	TCSH	SIGNAL HEADS	⊕	RES P	ELEVATION, SPOT	⊕	TCSH	SIGNAL HEADS
⊕	CBTP	BASELINE, TIE POINT				⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	RGA	GUIDE RAIL, ANCHOR	⊕	TCSH	SIGNAL HEADS
⊕	CPBM	BENCHMARK	PIN 1760.51 UTILITY QUALITY LEVEL C BRIDGES 3301700 CULVERTS ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED			⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
⊕	CPH	POINT, HORIZ. PHOTOGRAMMETRY				⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS
⊕	CPSM	POINT, SURVEY MARKER, PERM.	LEGEND (2 OF 2) WATER STREET OVER THE BRANCH			⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	UUVT	UNKNOWN, VENT
⊕	CPSV	POINT, VERT., PHOTOGRAMMETRY				⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS	⊕	TCSH	SIGNAL HEADS
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX REGION: 1											PIN 1760.51 UTILITY QUALITY LEVEL C BRIDGES 3301700 CULVERTS ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED			CONTRACT NUMBER D035818 DRAWING NO. LD-2 SHEET NO. 4 OF 61			

FILE NAME = 176051_cph_gnn.dgn
 DATE/TIME = 4/16/2021 9:45:30 AM
 USER = gneaddo

PROJECT MANAGER GWN
 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

GENERAL NOTES:

- 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.
- DESIGN SPECIFICATIONS: NYS DOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: $f'c = 3000$ psi.)
- LIVE LOAD: AASHTO HL - 93.
- CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, WITH CURRENT ADDITIONS AND MODIFICATIONS.
- THE LOAD RATINGS ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION - FIRST EDITION 2008, WITH CURRENT ADDITIONS AND MODIFICATIONS.
- 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 SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.
- 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.
- THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 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.
- UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR. THE CONTRACTOR SHALL ALSO OBTAIN WRITTEN PERMISSION OF THE REGIONAL DIRECTOR OF TRANSPORTATION BEFORE PROCEEDING.

REINFORCING STEEL:

- ALL BAR REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
- COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED. COVER FOR STEEL FOOTING REINFORCEMENT SHALL BE 3".

SALVAGED MATERIALS NOTES:

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THE COUNTY WILL SALVAGE EXISTING MATERIALS THAT ARE FOUND TO BE IN GOOD CONDITION. EXISTING MATERIALS TO BE RETURNED TO THE COUNTY INCLUDE THE EXISTING TEMPORARY CONCRETE BARRIERS AND THE EXISTING SIGN PANELS.
- WHEN THE TEMPORARY CONCRETE BARRIER IS NO LONGER NEEDED, THEY SHALL BE TRANSPORTED TO THE ESSEX COUNTY DPW FACILITY. THE CONTRACTOR SHALL INCLUDE THE COST TO REMOVE AND TRANSPORT THESE MATERIALS BETWEEN THE PROJECT SITE AND THEIR STORAGE LOCATION AT 8053 U.S. 9, ELIZABETHTOWN, NY 12932 IN THE UNIT BID PRICE FOR ITEM 606.65. THE CONTRACTOR SHALL BE PAID FOR MOVEMENT OF THE BARRIER ONCE. ANY MOVEMENT OR REARRANGEMENT OF THESE BARRIERS TO SUIT THE CONTRACTOR'S OPERATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- UPON REMOVAL OF THE EXISTING SIGN PANELS, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE COUNTY TO ALLOW FOR A COUNTY REPRESENTATIVE TO REMOVE THEM FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AND COUNTY AT THE EXPENSE OF THE CONTRACTOR.

REMOVAL NOTES:

- THE COST OF REMOVAL OF THE EXISTING CONCRETE SPANDREL WALL AND CONCRETE ARCHES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 206.01, STRUCTURE EXCAVATION. THE EXISTING CONCRETE FOOTINGS AND WINGWALLS SHALL BE REMOVED IN ACCORDANCE WITH ITEM 202.19, REMOVAL OF SUBSTRUCTURES.
- 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 BE SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IS WAIVED.
- THE CONTRACTOR'S ATTENTION BROUGHT TO THE FACT THAT ALL CONSTRUCTION ACTIVITY WILL BE PERFORMED WITH CARE SO THAT ANY PRIVATE PROPERTY WHICH IS TO REMAIN UNDISTURBED, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY PRIVATE PROPERTY WHICH IS TO REMAIN, THE DAMAGE SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER, THE ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS AND THE PROPERTY OWNER AT THE EXPENSE OF THE CONTRACTOR.
- RECORD PLANS FOR THIS STRUCTURE ARE NOT AVAILABLE.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL TO 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.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.
- 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.
- IF THE STRUCTURE HAS A BRIDGE IDENTIFICATION NUMBER (B.I.N.) PLATE ATTACHED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT IT DURING CONSTRUCTION OR REMOVE AND REMOUNT IT AFTER CONSTRUCTION IS COMPLETED.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.

FOUNDATION NOTES:

- THE CONTRACTOR'S ATTENTION BROUGHT TO THE FACT THAT MICROPILES ARE CONSIDERED SPECIALTY WORK WITH THE DESIGN AND INSTALLATION PERFORMED BY A SPECIALTY CONTRACTOR. THE DESIGN AND CONSTRUCTION OF THE MICROPILES SHALL BE DONE IN ACCORDANCE WITH ITEM 551.99460017, MICROPILES (CONTRACTOR DESIGNED).
- THE CONTRACTOR SHALL PROVIDE THE DESIGN AND METHOD-OF-INSTALLATION FOR THE MICROPILES, IN ACCORDANCE WITH ITEM 551.99460017. THE DESIGN AND METHOD-OF-INSTALLATION FOR THE MICROPILES SHALL BE STAMPED BY A LICENSED AND REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER TWENTY (20) DAYS PRIOR TO BEGINNING THE INSTALLATION.
- REFER TO DWG. NO. MP-1 FOR ADDITIONAL DETAILS AND NOTES FOR MICROPILES.
- ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
- WHERE PILES ARE TO BE PLACED THROUGH THE EMBANKMENT (6 INCH TOPSIZE), THE EMBANKMENT SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
- HIGHWAY EMBANKMENT MATERIAL AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.

SUBSTRUCTURE NOTES:

- ALL EXPOSED CAST-IN-PLACE CONCRETE SURFACES SHALL BE SEALED ACCORDING TO ITEM 559.16960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE.
- ALL EXPOSED EDGES OF CONCRETE ARE TO BE CHAMFERED 1" UNLESS OTHERWISE NOTED.
- TOP OF BACKWALLS SHALL BE STEEL TROWEL FINISHED. TWO SHEETS OF SHEET GASKET (TREATER BOTH SIDES), 728-06, SHALL BE PLACED ON THE TOP OF THE BACKWALLS OF FIXED AND EXPANSION ABUTMENTS. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.

SUPERSTRUCTURE NOTES:

- THE CONTRACTOR MAY PROPOSE DEBONDING OF PRETENSIONING STRANDS FOR 6 INCHES FROM ENDS OF BEAMS TO REDUCE THE TENDENCY FOR BEAM ENDS TO CRACK. TOTAL NUMBER OF DEBONDED STANDS (DESIGN BONDING SHOWN ON THE CONTRACT PLANS AND CRACK CONTROL DEBONDING COMBINED) SHALL NOT EXCEED 50% OF TOTAL NUMBER OF STRANDS.
- TOP SURFACES OF NEW BRIDGE DECKS, APPROACH SLABS AND SIDEWALKS SHALL BE SEALED ACCORDING TO ITEM 559.18960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS.
- ALL PRESTRESSED CONCRETE BRIDGE BEAMS SHALL HAVE A MINIMUM AGE OF 60 DAYS AT THE TIME OF CONCRETE DECK PLACEMENT.

ENDANGERED AND THREATENED SPECIES NOTES:

- THIS PROJECT INVOLVES THE REMOVAL OF TREES GREATER THAN THREE (3) INCHES IN DIAMETER (DIAMETER BREAST HEIGHT (DBH)). IF PROJECT CONDITIONS CHANGE AND ADDITIONAL TREE REMOVALS ARE NECESSARY, WHETHER UNDER CLEARING AND GRUBBING OR TREE REMOVALS, THE ENGINEER MUST BE NOTIFIED PRIOR TO THE START OF ANY TREE REMOVAL. TREE REMOVALS WILL BE ALLOWED ONLY AFTER COORDINATION AND APPROVAL BY THE ENGINEER.
- THE CONTRACTOR'S ATTENTION DIRECTED TO FACT THAT ALL BRIDGES HAVE THE POTENTIAL OF BEING SUMMER ROOSTING HABITAT FOR BATS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 10 DAYS PRIOR TO THE START OF WORK ON THE BRIDGE. A BRIDGE/BAT SURVEY WILL BE CONDUCTED BY THE CONTRACTOR FOR THE PRESENCE OF BATS FOR ANY BRIDGE WORK THAT WILL TAKE PLACE BETWEEN MARCH 31 AND NOVEMBER 1. THE SURVEY WILL BE CONDUCTED AND RESULTS PROVIDED WITHIN SEVEN (7) DAYS OF THE CONTRACTOR'S NOTIFICATION. NO WORK ON THAT BRIDGE CAN COMMENCE UNTIL THE BRIDGE IS CLEARED THROUGH THE ENGINEER. THERE ARE NO SPECIAL QUALIFICATIONS REQUIRED TO CONDUCT THIS SURVEY. THE SURVEY CAN BE CONDUCTED FROM THE UNDERSIDE OF THE BRIDGE, ON LAND WITH THE USE OF BINOCULARS. IF NO SIGNS OF BATS ARE PRESENT, THE COMPLETED FORM SHALL BE PROVIDED TO THE ENGINEER WITHIN 15 DAYS. IF SIGNS OF BAT ACTIVITY ARE NOTED DURING THE SURVEY, THE ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS. NO WORK ON THAT BRIDGE CAN COMMENCE UNTIL THE BRIDGE IS CLEARED BY THE ENGINEER. A COPY OF THE BRIDGE/BAT SURVEY FORM(S) CAN BE FOUND IN THE PROJECT MANUAL. ADDITIONAL INFORMATION CAN BE FOUND AT THE US FISH AND WILDLIFE SERVICE WEBSITE WHICH OFFERS A PICTORIAL GUIDE TO SIGNS OF BAT HABITATION ON BRIDGES.
- TIME OF YEAR TREE CUTTING AND TRIMMING RESTRICTIONS FOR INDIANA BAT AND NORTHERN LONG-EARED BAT:

IN ORDER TO PREVENT ANY DIRECT TAKINGS OF INDIANA BAT (MYOTIS SODALIS), A FEDERAL AND STATE LISTED ENDANGERED SPECIES AND NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS), A FEDERAL AND STATE LISTED THREATENED SPECIES, THE CONTRACTOR'S ATTENTION IS HEREBY DIRECTED TO THE FACT THAT TREE CUTTING AND TRIMMING SHALL ONLY BE PERFORMED FROM NOVEMBER 1 THROUGH MARCH 31. THESE DATE RESTRICTIONS APPLY TO TREES THAT ARE 3 INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT (DBH) AND BRANCHES THAT ARE 3 INCHES OR GREATER IN DIAMETER. THE CONTRACTOR'S ATTENTION BROUGHT TO THE FACT THAT ALL TREES OVER 3" DBH HAVE BEEN FELLED BY THE COUNTY. REMOVAL OF THE PREVIOUSLY CUT TREES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 201.06, CLEARING AND GRUBBING.

CONTROL OF INVASIVE SPECIES NOTES:

- ALL CONSTRUCTION EQUIPMENT WILL BE PRESSURE WASHED TO REMOVE SOIL CLUMPS AND DEBRIS PRIOR TO SHIPPING TO THE PROJECT SITE.
- ALL SEED SPECIES (EXPECT ANNUAL RYE AND PERENNIAL RYE GRASSES) SHALL BE NATIVE TO NEW YORK STATE. SEED SHALL MEET THE REQUIREMENTS OF NYS DOT MATERIAL SPECIFICATION 713-04 SEEDS.
- THE CONTRACTOR SHALL MAINTAIN ALL SEEDED AREAS AGAINST INVASION AND GROWTH OF INVASIVE, NON-NATIVE SPECIES.
- EXCAVATED MATERIAL CONTAINING INVASIVE SPECIES ON-SITE, IN PARTICULAR: JAPANESE KNOTWEED OR GARLIC MUSTARD SHOULD BE PLACED IN A SUITABLE UPLAND AREA WHERE IT CAN BE BURIED 5-6 FEET BELOW THE SURFACE OR TRANSPORTED TO A LANDFILL. THE COST SHALL BE INCLUDED IN THE UNIT BID PRICE FOR UNDER ITEM 203.02.
- NO HAY BALES SHALL BE PERMITTED ON PROJECT SITE. STRAW BALES, WHICH MEET THE REQUIREMENTS OF NYS DOT MATERIAL SPECIFICATION 713-19- STRAW SHALL BE PERMITTED ON PROJECT SITE.
- MULCH SHALL MEET THE REQUIREMENTS OF NYS DOT MATERIAL SPECIFICATION 713-11- WOOD FIBER MULCH.

STREAM PROTECTION NOTE:

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. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A					DRAWING NO. GN-1 SHEET NO. 5 OF 61
	TOWN: ELIZABETHTOWN				GENERAL NOTES WATER STREET OVER THE BRANCH	
	COUNTY: ESSEX	REGION: 1				
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FILE NAME = 176051_cph_gmn.dgn
 DATE/TIME = 4/16/2021 9:45:30 AM
 USER = gneaddo

DESIGN SUPERVISOR MTS

JOB MANAGER GWN

DESIGN JAT

CHECK GWN

DRAFTING JAT

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PROJECT MANAGER GWN

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED	FINAL
201.06	CLEARING AND GRUBBING	LS	1	
202.19	REMOVAL OF SUBSTRUCTURES	CY	70	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	225	
203.03	EMBANKMENT IN PLACE	CY	1070	
203.07	SELECT GRANULAR FILL	CY	56	
203.21	SELECT STRUCTURE FILL	CY	675	
206.01	STRUCTURE EXCAVATION	CY	3450	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	230	
207.20	GEOTEXTILE BEDDING	SY	35	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	160	
209.13	SILT FENCE-TEMPORARY	LF	770	
209.1702	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BAG - TEMPORARY	CY	1	
304.12	SUBBASE COURSE, TYPE 2	CY	240	
402.000014	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA ITEMS	QU	10	
402.128304	12.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	61	
402.198904	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	55	
402.378904	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	82	
407.0102	DILUTED TACK COAT	GAL	81	
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF	67	
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	210	
551.40200017	FURNISHING EQUIPMENT FOR INSTALLING MICROPILES	LS	1	
551.50220017	STATIC PILE LOAD TEST	EACH	2	
551.99450017	PERMANENT CASING FOR MICROPILES	LF	650	
551.99460017	MICROPILES (CONTRACTOR DESIGNED)	EACH	50	
553.020001	COFFERDAMS (TYPE 2)	EACH	1	
553.020002	COFFERDAMS (TYPE 2)	EACH	1	
553.020003	COFFERDAMS (TYPE 2)	EACH	1	
555.01940007	STAINING CONCRETE SURFACES	SF	1015	
555.08	FOOTING CONCRETE, CLASS HP	CY	195	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	160	
555.72940001	ARCHITECTURAL TREATMENT - VERTICAL CONCRETE SURFACES	SF	1015	
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	LB	21222	
557.0503	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM	SY	348	
	FORMWORK NOT REQUIRED - TYPE 3 FRICTION			

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED	FINAL
557.2003	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYPE 3 FRICTION	SY	67	
557.30	SIDEWALKS AND SAFETY WALKS	SY	78	
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SY	316	
559.16960118	PROTECTIVE SEALING OF STRUCTURAL CONCRETE	SF	1870	
559.18960118	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SF	4310	
559.90010011	ANTI-GRAFFITI PROTECTION COATING	SY	113	
563.02	PRESTRESSED CONCRETE BOX BEAMS UNITS	SF	2880	
565.1923	TYPE E.L. BEARING (112 TO 168 KIPS)	EACH	16	
568.70	TRANSITION BRIDGE RAILING	LF	133	
569.03	VERTICAL FACED CONCRETE PARAPET	LF	190.4	
603.171116	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 15 INCH DIAMETER, 16 GAUGE	EACH	1	
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORMDRAIN 15 INCH DIAMETER	LF	44	
604.300691	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR PARALLEL BAR *11PCB FRAME	LF	4.67	
606.10	BOX BEAM GUIDE RAILING	LF	3	
606.120101	BOX BEAM END PIECE	EACH	2	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	2	
606.65	REMOVING AND STORING PRECAST CONCRETE BARRIER	LF	115	
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	13	
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	75	
608.000013	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA SIDEWALK ITEMS	QU	1	
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY	15	
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON	11	
609.0201	STONE CURB, GRANITE, (TYPE A)	LF	165	
609.0302	STONE CURB - BRIDGE (TYPE F1)	LF	230	
610.1401	TOPSOIL - REUSE ON-SITE MATERIALS	CY	7	
610.1403	TOPSOIL - LAWNS	CY	50	
610.1602	TURF ESTABLISHMENT - LAWNS	SY	445	
611.0361	PLANTING - CONIFEROUS TREES - 6 FOOT HEIGHT BALL & BURLAP, FIELD POTTED OR FIELD BOXED	EACH	7	
613.04000001	STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS	CY	4	
614.060201	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS CUT TO ABOVE GRADE	EACH	10	

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED	FINAL
614.060204	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	EACH	2	
614.060304	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREASTHEIGHT - STUMPS GRUBBED	EACH	1	
614.0701	PRE-EXISTING STUMP REMOVAL UP TO 24 INCH DIAMETER AT 6 INCHES ABOVE GRADE	EACH	1	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	20	
619.110511	(PVMs) STANDARD SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENT SPECIFIED, NO CELLULAR COMMUNICATIONS REQUIRED	EACH	3	
619.1711	TEMPORARY POSITIVE BARRIER - CATEGORY 1 (PINNING PROHIBITED)	LF	80	
619.1719	WARNING LIGHTS ON TEMPORARY POSITIVE BARRIERS	EACH	8	
619.27	MAILBOXES	EACH	3	
620.03	STONE FILLING (LIGHT)	CY	11	
620.05	STONE FILLING (HEAVY)	CY	370	
620.0801	BEDDING MATERIAL, TYPE 1	CY	77	
625.01	SURVEY OPERATIONS	LS	1	
625.05	STEEL PIN AND CAP RIGHT-OF-WAY MARKER	EACH	4	
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	8	
645.81	TYPE A SIGN POSTS	EACH	1	
646.22	DELINEATOR, SNOWFLOWING MARKER, SUPPLEMENTARY SNOWFLOWING MARKER PANELS	EACH	7	
646.31	STEEL POST, 1.1 LB/FT	EACH	7	
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQUARE FEET)	EACH	1	
647.41	REMOVE AND STORE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQUARE FEET)	EACH	7	
655.0902	PARALLEL BAR FRAME 11 PCB & PARALLEL BAR GRATE 11 PCB	EACH	1	
663.0108	DUCTILE IRON CEMENT LINED WATER PIPE, 8"	LF	155	
663.2001	IRON WATER MAIN FITTINGS (3" - 8")	LB	275	
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EACH	2	
663.40	DISCONNECT AND CAP EXISTING WATER MAIN	EACH	1	
685.01	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 15 MILS	LF	750	
685.02	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES-15 MILS	LF	750	
697.03	FIELD CHANGE PAYMENT	DC	82000	
698.04	ASPHALT PRICE ADJUSTMENT	DC	261	
698.05	FUEL PRICE ADJUSTMENT	DC	100	
699.040001	MOBILIZATION	LS	1	

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY ROUTE 10A
 TOWN: ELIZABETHTOWN
 COUNTY: ESSEX REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C

BRIDGES
 3301700

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

ESTIMATE OF QUANTITIES

WATER STREET
 OVER
 THE BRANCH

CONTRACT NUMBER
 D035818

DRAWING NO. EQ-1
 SHEET NO. 6 OF 61

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.

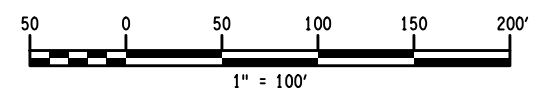


CURVE NO. 1	
P.C. = 3+09.90	
P.T. = 4+44.54	
R = 900 FT.	
L = 134.68 FT.	
$\Delta = 8^{\circ}34'18.81$	

CURVE NO. 4	
P.C. = 11+16.19	
P.T. = 12+93.81	
R = 5000.00 FT.	
L = 177.62 FT.	
$\Delta = 2^{\circ}02'07.36$	

CURVE NO. 2	
P.C. = 4+90.85	
P.T. = 6+73.12	
R = 335 FT.	
L = 182.27 FT.	
$\Delta = 31^{\circ}10'26.72$	

CURVE NO. 3	
P.C. = 7+44.64	
P.T. = 8+90.31	
R = 600.00 FT.	
L = 145.67 FT.	
$\Delta = 13^{\circ}54'37.04$	



SURVEY CONTROL NOTES:

HORIZONTAL COORDINATES ARE REPORTED ON NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE NAD 83 (2011). DATUM IN U.S. SURVEY FEET.

ELEVATIONS ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) TRANSFERRED TO THE SITE BY GPS OBSERVATIONS.

SURVEY WAS PERFORMED WITH +/- 12" OF SNOW COVER. SOME PHYSICAL FEATURES MAY HAVE BEEN OBSCURED.

DATE OF SURVEY: DECEMBER 2017 & JANUARY 2018.

- GENERAL NOTES:**
- SEE DWG. NO. SV-2 FOR BASLINE TIES.
 - 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.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY ROUTE 10A
TOWN: ELIZABETHTOWN
COUNTY: ESSEX REGION: 1

PIN 1760.51
UTILITY QUALITY LEVEL C
BRIDGES 3301700
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
SURVEY CONTROL PLAN
WATER STREET OVER THE BRANCH

CONTRACT NUMBER D035818
DRAWING NO. SV-1 SHEET NO. 7 OF 61

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DESIGN SUPERVISOR MTS



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 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

<p>2017 CONTROL BASELINE TIE</p>	<p>2017 CONTROL BASELINE TIE</p>	<p>2017 CONTROL BASELINE TIE</p>	<p>2017 CONTROL BASELINE TIE</p>
<p>GPS3 STA 10+00.00 MAG NAIL SET IN PAVEMENT AT THE NORTHEAST CORNER OF ROUTE 9N AND WATER STREET +/- 1.0' SOUTHWEST OF PAVEMENT EDGE.</p>	<p>CB55 STA. 11+54.56 RED CAPPED IRON ROD SET +/- 10' NORTHWESTERLY FROM PAVEMENT EDGE OF WATER STREET AND +/- 175' NORTHEASTERLY FROM ROUTE 9N.</p>	<p>CB54 14+43.21 RED CAPPED IRON ROD SET +/- 4.0' NORTHERLY FROM PAVEMENT EDGE WATER STREET AND +/- 250' WESTERLY FROM THE BRIDGE OVER BOQUETT RIVER.</p>	<p>CB53 STA. 16+06.90 RED CAPPED IRON ROD SET +/- 5' SOUTH OF PAVEMENT EDGE WATER STREET AND +/- 80' WEST FROM THE BRIDGE OVER BOQUETT RIVER.</p>
<p>☉ STA. 2+43.70, 51.30' LT. NYSPCS EAST ZONE NAD 83/2011 N: 1964260.6142 E: 725416.6377</p>	<p>☉ STA. 3+80.14, 21.08' LT. NYSPCS EAST ZONE NAD 83/2011 N: 1964377.5264 E: 725517.7364</p>	<p>☉ STA. 6+63.05, 15.65' LT. NYSPCS EAST ZONE NAD 83/2011 N: 1964398.5369 E: 725805.6235</p>	<p>☉ STA. 8+22.44, 15.47' RT. NYSPCS EAST ZONE NAD 83/2011 N: 1964325.7155 E: 725952.2185</p>
<p>2017 CONTROL BASELINE TIE</p>	<p>2017 CONTROL BASELINE TIE</p>	<p>2017 CONTROL BASELINE TIE</p>	
<p>CB52 STA. 18+19.83 RED CAPPED IRON ROD SET +/- 5' SOUTH OF PAVEMENT EDGE WATER STREET AND +/- 50' EAST OF THE BRIDGE OVER BOQUETT RIVER.</p>	<p>CB51 STA. 22+56.68 RED CAPPED IRON ROD SET +/- 5' NORTH OF PAVEMENT EDGE WATER STREET AND +/- 480' EAST FROM THE BRIDGE OVER BOQUETT RIVER.</p>	<p>GPS2 STA. 27+04.18 MAG NAIL SET IN ASPHALT WALK +/- 6' NORTHERLY OF PAVEMENT EDGE WATER STREET AND IN FRONT OF HOUSE #73.</p>	
<p>☉ STA. 10+33.71, 16.28' RT. NYSPCS EAST ZONE NAD 83/2011 N: 1964308.2121 E: 726164.4236</p>	<p>☉ STA. 14+64.30, 15.84' LT. NYSPCS EAST ZONE NAD 83/2011 N: 1964323.5489 E: 726601.0080</p>	<p>NYSPCS EAST ZONE NAD 83/2011 N: 1964217.7395 E: 727035.8176</p>	

NOTES:
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AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



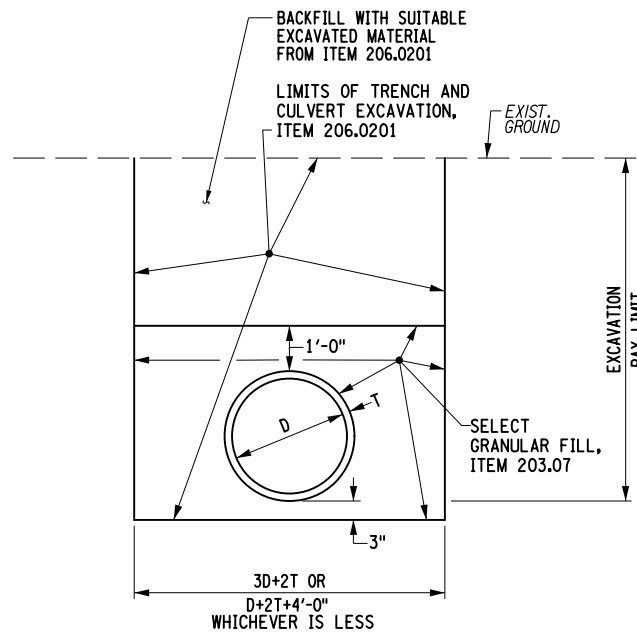
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX REGION: 1	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED BASELINE TIE DIAGRAMS WATER STREET OVER THE BRANCH	CONTRACT NUMBER D035818 DRAWING NO. SV-2 SHEET NO. 8 OF 61
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.						CPL ARCHITECTURE ENGINEERING PLANNING CPLteam.com

PROJECT MANAGER GWN
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 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

R.O.W. MARKERS			
STATION	SIDE	OFFSET	ITEM 625.05
16+38.6	LT.	73.3'	1
16+42.8	RT.	43.0'	1
17+94.2	LT.	75.2'	1
18+19.8	RT.	39.0'	1
TOTAL			4

UTILITY DISPOSITION			
LOCATION	DESCRIPTION	OWNER	DISPOSITION
RIGHT	OH POWER LINE	NYSEG	REMOVED FROM SERVICE FOR BRIDGE CONSTRUCTION
☐ STA 8+90, RT	UTILITY POLE W/ LIGHT	NYSEG	RELOCATE AND RESET AT CONSTRUCTION COMPLETION
RIGHT	OH COMMUNICATION	VERIZON	RELOCATE FOR BRIDGE CONSTRUCTION
RIGHT	OH COMMUNICATION	DEVELOPMENT AUTHORITY OF THE NORTH COUNTRY (DANC)	RELOCATE FOR BRIDGE CONSTRUCTION
RIGHT	OH COMMUNICATION	CHARTER COMMUNICATION	RELOCATE FOR BRIDGE CONSTRUCTION
RIGHT	UNDERGROUND WATER LINE	TOWN OF ELIZABETHTOWN	REMOVED FROM SERVICE FOR BRIDGE CONSTRUCTION. CONTRACTOR TO INSTALL NEW WATER MAIN AS SHOWN ON THE PLANS.

SIGN REMOVAL TABLE				
☐ STATION	SIDE	DESCRIPTION	ITEM NUMBER	REMARKS
BEGIN APPROACH	RT	"10 TON BRIDGE" LOCATED BEYOND SURVEY LIMITS, NOT SHOWN ON PLANS	647.41	REMOVE AND STORE
8+73	RT	"WATCH FOR CHILDREN"	647.31	INSTALL NEW TYPE A SIGN POSTS, ITEM 645.81
8+74	RT	"WEIGHT LIMIT 10 TONS"	647.41	REMOVE AND STORE
8+87	LT & RT	OBJECT MARKER	647.41	REMOVE AND STORE
9+88	LT & RT	OBJECT MARKER	647.41	REMOVE AND STORE
9+94	LT	"WEIGHT LIMIT 10 TONS"	647.41	REMOVE AND STORE
END APPROACH	LT	"10 TON BRIDGE" LOCATED BEYOND SURVEY LIMITS, NOT SHOWN ON PLANS	647.41	REMOVE AND STORE
END APPROACH	LT	"1/2 MILE AHEAD" LOCATED BEYOND SURVEY LIMITS, NOT SHOWN ON PLANS	647.41	REMOVE AND STORE



TYPICAL PROPOSED PIPE EXCAVATION
NOT TO SCALE

DELINEATORS & SNOWPLOW MARKERS				
☐ STATION	SIDE	ITEM NUMBER		
		646.22	646.31	
8+68	RT	1	1	
8+92	LT	1	1	
9+00	RT	1	1	
9+91	LT	1	1	
9+99	RT	1	1	
10+26	LT	1	1	
10+31	RT	1	1	
TOTAL		7	7	

DRAINAGE STRUCTURE TABLE					
D.S. NO.	LOCATION	TYPE	T.G. / INVERTS	QUANTITY / ITEM	DESCRIPTION OF WORK
DSTF-1	☐ STA. 10+27, 11'-0" LT.	STORM C.B.	T.G. = 625.60 S. INV. = 621.75 OUTLET = 621.50	1 EACH - ITEM 655.0902 44.0 LF - ITEM 603.9815 4.67 LF - ITEM 604.300691 1 EACH - ITEM 603.171116	INSTALL RECTANGULAR DRAINAGE STRUCTURE "TYPE F" WITH SCOOP, ITEM 604.300691, WITH A CURB BOX AND PARALLEL BAR FRAME AND GRATE 11 PCB, ITEM 655.0902, TO RIM ELEVATION 625.60. INSTALL 44'-0" OF 15" SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN PIPE (S.I.C.P.P.), ITEM 603.9815 TO OUTLET. INSTALL GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 15 INCH DIAMETER, 16 GAUGE, ITEM 603.171116, AT THE OUTLET.

DRAINAGE STRUCTURE NOTE:
1. SEE NYSDOT STANDARD SHEET 604-02 AND 655-02 FOR DRAINAGE STRUCTURE, AND FRAME AND GRATE/COVER DETAILS.

CULVERT TABLE							
NUMBER	LOCATION ☐ STA.	LENGTH (FT)	PIPE ITEM NO.	PIPE DESCRIPTION	INLET ITEM	OUTLET ITEM	REMARKS
PCP-1	10+08	44'-0"	603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN PIPE, 15" DIAMETER	604.300691	603.171116	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 15 INCH DIAMETER, 16 GAUGE

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:

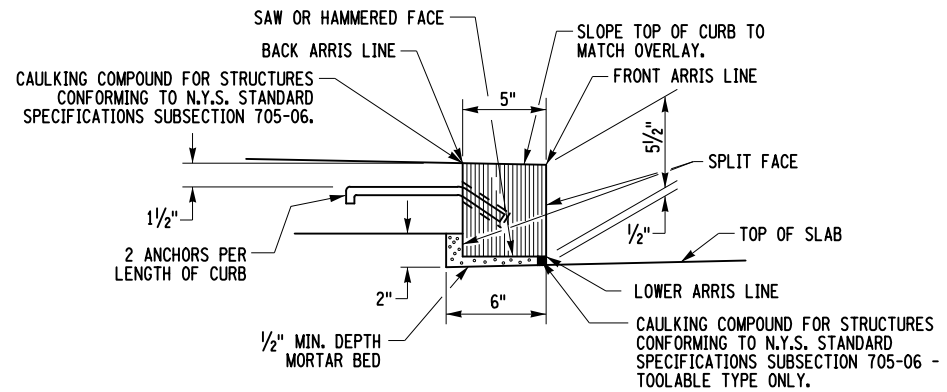


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX	PIN 1760.51 UTILITY QUALITY LEVEL C REGION: 1	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED MISCELLANEOUS TABLES WATER STREET OVER THE BRANCH	CONTRACT NUMBER D035818 DRAWING NO. TB-1 SHEET NO. 10 OF 61
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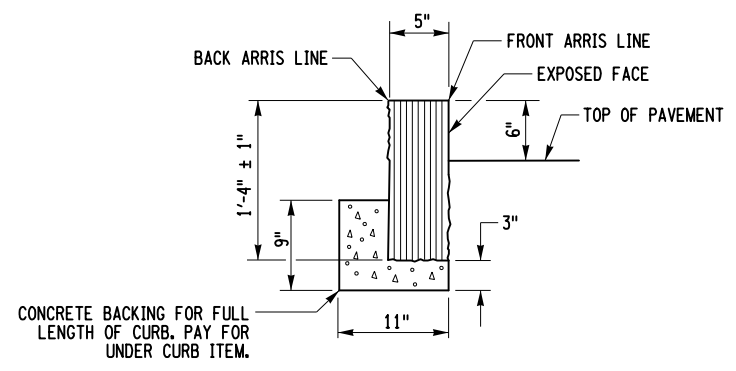


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 DESIGN SUPERVISOR MTS



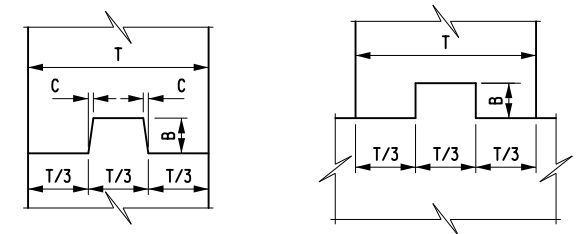
**SECTION OF STONE CURB - BRIDGE (TYPE F1)
ITEM 609.0302
NOT TO SCALE**

NOTE:
ALL MORTAR SHALL CONFORM TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-21.



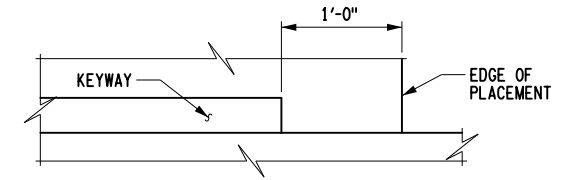
**SECTION OF STONE CURB, GRANITE (TYPE A)
ITEM 609.0201
NOT TO SCALE**

NOTE:
ALL MORTAR SHALL CONFORM TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-21.



VERTICAL

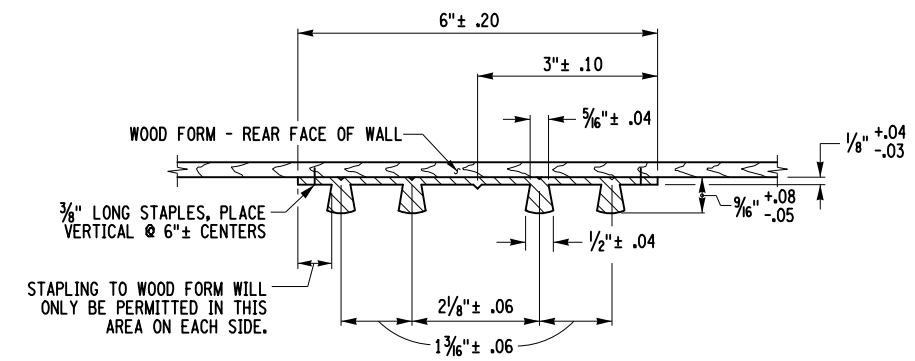
HORIZONTAL



CONSTRUCTION AND CONTRACTION JOINTS		
C	B	T/3
3/8"	1 1/2"	0 TO 6"
3/8"	3 1/2"	6" TO 10"
3/4"	5 1/2"	10" AND OVER

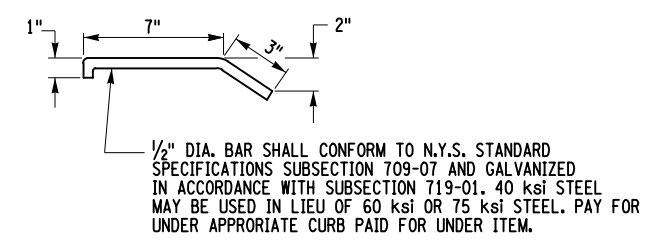
EXPANSION JOINTS		
C	B	T/3
3/8"	3 1/2"	0 TO 10"
3/4"	5 1/2"	10" AND OVER

**KEYWAY DETAILS
NOT TO SCALE**



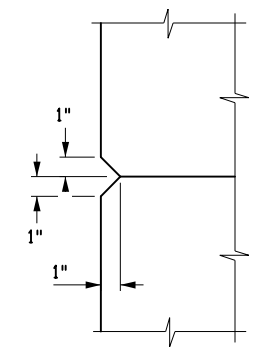
**TYPE D WATERSTOP
NOT TO SCALE**

NOTES:
HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.
TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.



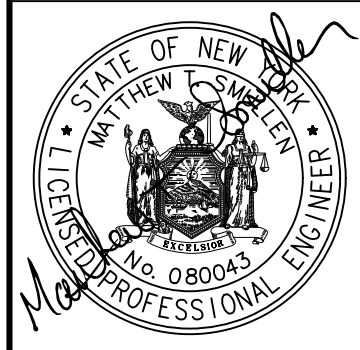
**DETAIL OF ANCHOR BAR
NOT TO SCALE**

NOTE:
CURB ANCHORS SHALL BE INSERTED INTO HOLES DRILLED IN THE REAR FACE OF THE STONE CURB. THE HOLES SHALL BE THOROUGHLY CLEANED AND FILLED WITH CONCRETE GROUTING MATERIAL CONFORMING TO N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 701-05, IMMEDIATELY BEFORE PLACING THE CURB ANCHOR. THE CURB ANCHORS SHALL BE SECURELY SUPPORTED IN POSITION UNTIL THE GROUT HAS HARDENED. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CURB ITEM.



CHAMFER DETAIL

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021
ALTERED BY:
ON:



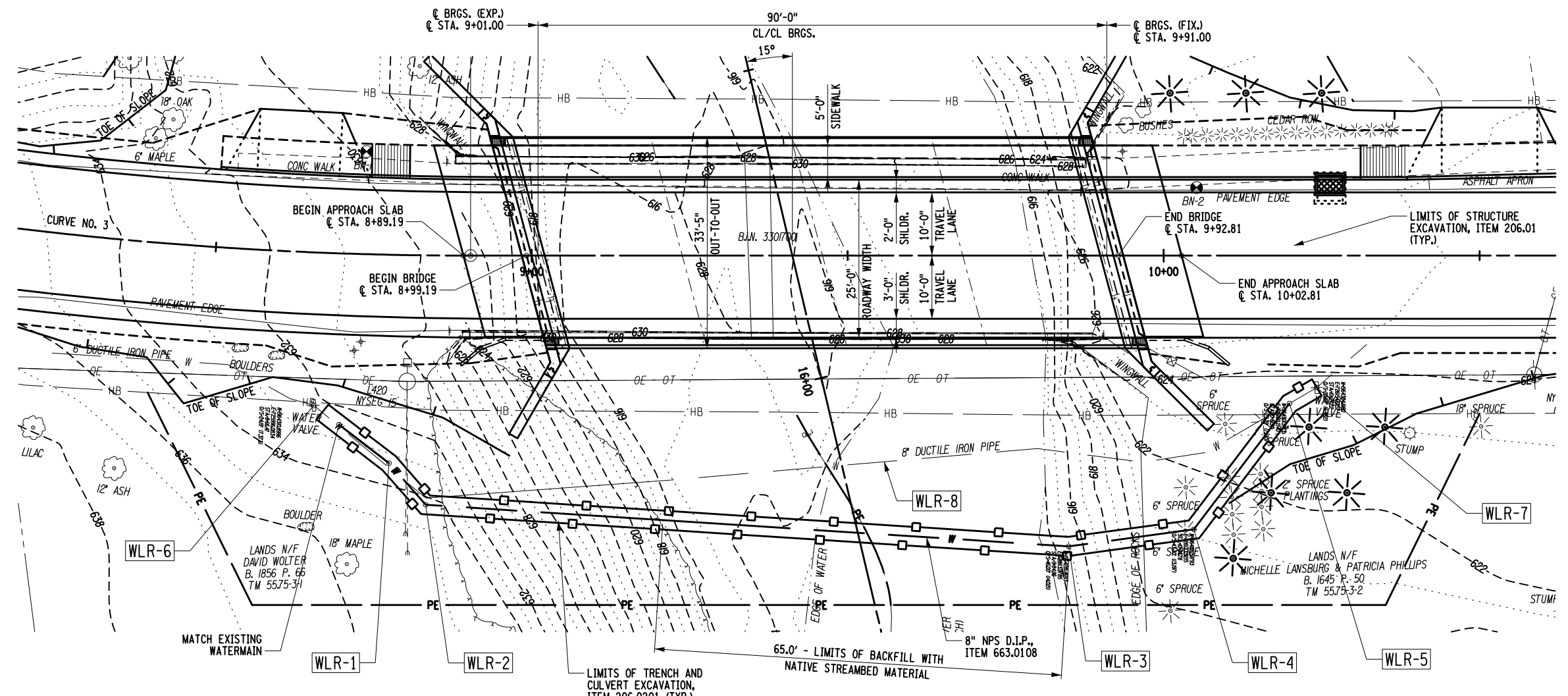
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A					DRAWING NO. MD-1 SHEET NO. 11 OF 61
	TOWN: ELIZABETHTOWN				MISCELLANEOUS DETAILS WATER STREET OVER THE BRANCH	
	COUNTY: ESSEX	REGION: 1				

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.



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 USER = gneddo

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 DRAFTING JAT
 CHECK GW
 DESIGN JAT
 JOB MANAGER GW



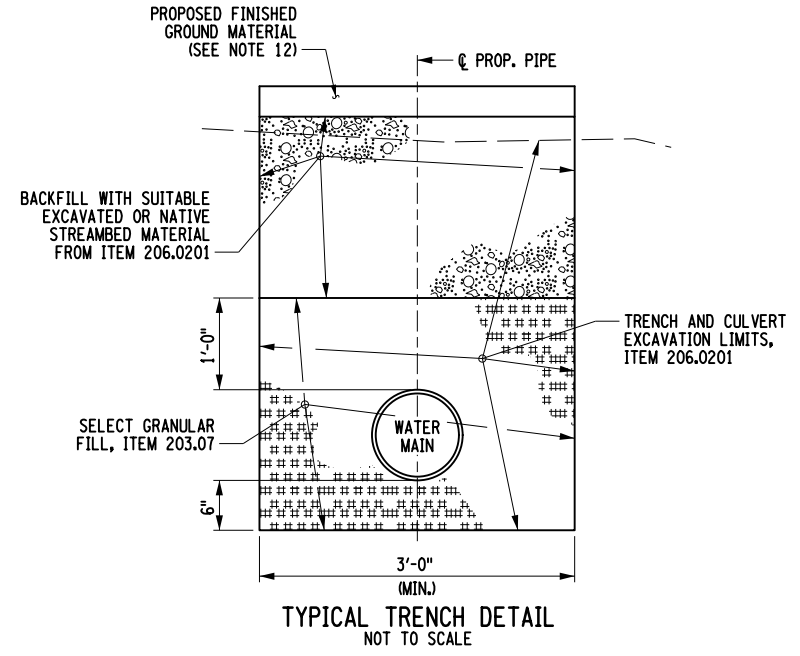
PARTIAL PLAN



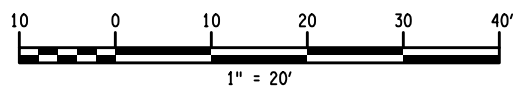
- NOTES:**
- SEE SPECIAL NOTE TITLED "OWNER REQUIREMENTS FOR WATER MAINS AND APPURTENANCES" IN THE CONTRACT PROPOSAL FOR ADDITIONAL INFORMATION.
 - IT IS BROUGHT TO THE ATTENTION OF THE CONTRACTOR THAT THE WATER MAIN MAY BE TAKEN OUT OF SERVICE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL SCHEDULE THE COMPLETION OF ALL WATER SUPPLY RELATED CONSTRUCTION UPON THE COMPLETION OF CONSTRUCTION ACTIVITIES THAT CONFLICT WITH THE WATER MAIN.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS OF UTILITIES TO ENSURE THAT ADEQUATE CLEARANCE FOR THE PROPOSED PIPE 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.
 - SERVICE CUSTOMERS SHALL BE ADVISED 48 HOURS PRIOR TO WATER MAIN WORK, AND SHUT-OFFS SHALL BE NO MORE THAN 8 HOURS IN DURATION.
 - BACKFILL SHALL BE INSTALLED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATIONS §203-3.15.
 - THE CONTRACTOR WILL PROVIDE THRUST RESTRAINTS IN ACCORDANCE WITH N.Y.S. STANDARD SPECIFICATIONS 663. COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 663.0106.
 - ADJUSTING VALVE BOXES TO GRADE WILL BE PAID FOR UNDER ITEM 663.33.
 - 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 OTHERWISE NOTED, THE SYSTEM SHALL BE SUBJECTED TO A PRESSURE/LEAKAGE TEST WITH WATER UNDER A MINIMUM HYDROSTATIC PRESSURE OF 150 PSI FOR A MINIMUM OF TWO (2) HOURS.
 - 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. THE TABLET METHOD SHALL NOT BE USED FOR CHLORINATION OF SOLVENT WELDED PLASTIC OR SCREWED-JOINT STEEL PIPE DUE TO THE DANGER OF FIRE OR EXPLOSION FROM THE REACTION OF JOINT COMPOUNDS WITH CALCIUM HYPOCHLORITE.
 - EXISTING WATER PIPE SHALL BE FILLED WITH NON-SHRINK GROUT MEETING THE REQUIREMENTS OF §701.06 OF THE NYS DOT STANDARD SPECIFICATIONS, COST TO BE INCLUDED IN UNIT PRICE BID FOR ITEM 663.40.
 - FOR ADDITIONAL STRUCTURE EXCAVATION LIMITS, SECTIONS AND DETAILS, SEE DWGS. NO. ST-2 THROUGH ST-4.
 - THE PROPOSED FINISHED GROUND MATERIAL FOR RESTORATION OF THE WATERMAIN TRENCH AND CULVERT EXCAVATION SHALL BE NATIVE STREAMBED MATERIAL, ITEM 613.04000001 AS SHOWN ON THE PLANS. THE REMAINING PORTIONS SHALL BE RESTORED IN ACCORDANCE WITH TOPSOIL-REUSE ON-SITE MATERIALS, ITEM 610.1401.
 - CONTOURS SHOWN ARE EXISTING.
 - 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.

WATER MAIN RELOCATION TABLE - 8" NPS D.I.P.

DESIGNATION	LOCATION @ STA.	SIZE (INCH)	SPECIALS	ITEM 663.0108, 8" NPS D.I.P. (FT.)	ITEM 663.2001, IRON WATER MAIN FITTINGS (3"-8") (LB.)	ITEM 663.33, ADJUST EXISTING VALVE BOX ELEVATION (EA.)	ITEM 663.40, DISCONNECT AND CAP EXISTING WATER MAIN (EA.)
WLR-1	8+78.1, 33.0' RT.	8	(1) 11 1/4° BEND, (1) FITTING	10	50	-	-
WLR-2	8+83.6, 39.5' RT.	8	(1) 45° BEND, (1) FITTING	10	60	-	-
WLR-3	9+85.0, 46.0' RT.	8	(1) 11 1/4° BEND, (1) FITTING	100	50	-	-
WLR-4	10+04.8, 43.3' RT.	8	(1) 45° BEND, (1) FITTING	20	60	-	-
WLR-5	10+19.9, 23.4' RT.	8	(1) 22 1/2° BEND, (1) FITTING	25	55	-	-
WLR-6	8+66.5, 24.2' RT.	-	-	-	-	1	-
WLR-7	10+24.2, 20.9' RT.	-	-	-	-	1	-
WLR-8	-	8	-	-	-	-	1
TOTAL:				155.0	275	2	1



TYPICAL TRENCH DETAIL NOT TO SCALE



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
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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.

UTILITY DETAILS	DRAWING NO. UT-1
WATER STREET OVER THE BRANCH	SHEET NO. 12 OF 61



FILE NAME = 176051_cpb_ut1.dgn
 DATE/TIME = 4/16/2021 9:44:38 AM
 USER = gneaddo

PROJECT MANAGER GWN
CHECK GWN
DRAFTING JAT
CHECK GWN
DESIGN JAT
JOB MANAGER GWN
DESIGN SUPERVISOR MTS

GENERAL NOTES:

1. THE CONTRACTOR'S ATTENTION BROUGHT TO THE FACT THAT ALL CONSTRUCTION ACTIVITY WILL BE PERFORMED WITH CARE SO THAT ANY PRIVATE PROPERTY WHICH IS TO REMAIN UNDISTURBED, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY PRIVATE PROPERTY WHICH IS TO REMAIN, THE DAMAGE SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER, THE ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS AND THE PROPERTY OWNER AT THE EXPENSE OF THE CONTRACTOR.
2. TEMPORARY PLASTIC BARRIER FENCE MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. TEMPORARY PLASTIC BARRIER FENCE SHALL BE PLACED IN FRONT OF EXISTING TREES AS SHOWN ON THE PLANS.
3. 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.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE ELEMENTS CONTAINED ON THE CONTRACT PLANS AND THE APPLICABLE STANDARD SHEETS, STANDARD SPECIFICATIONS, AND SPECIAL SPECIFICATIONS (209 SERIES) SHALL BE USED DURING CONSTRUCTION IN ANY AREA WHERE SOIL RELATED FINE MATERIALS MAY ENTER THE WATERS OF THE STATE OF NEW YORK.
2. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF ANY APPLICABLE N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION WATER QUALITY CERTIFICATION AND/OR U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT.
3. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER IN CHARGE A WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK AND SCHEDULE OF OPERATIONS PRIOR TO COMMENCING WORK.
4. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF ANY STREAM OR WATERWAY BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT FROM ALL ASSOCIATED CONSTRUCTION PROCEDURES.
5. SILT FENCE SHALL BE PLACED ALONG BOTH SIDES OF THE EXISTING ROADWAY, 50 FEET PAST THE PROJECT LIMITS.
6. NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO ANY WATERS. WASHINGS OF CONCRETE TRUCKS, MIXERS OR OTHER DEVICES SHALL BE ACCOMPLISHED WITHIN A DESIGNATED AREA SURROUNDED BY PROPER EROSION AND SEDIMENT CONTROL DEVICES TO PREVENT ANY WASHINGS FROM ENTERING ANY WETLAND OR WATER WAY.
7. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO APPROPRIATE UPLAND AREAS FOR DISPOSAL.
8. ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT RE-ENTER ANY WATER BODY OR WETLAND AREA.
9. PERIODIC CLEANING AND MAINTENANCE AND A DAILY INSPECTION SHALL BE PERFORMED ON ALL TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED, INCLUDING CLEARING ACCUMULATED SEDIMENT PER SPECIFICATIONS.
10. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING DITCHES AND WATER COURSES.
11. HEAVY EQUIPMENT OR CONSTRUCTION VEHICLES SHALL NOT BE DRIVEN IN ANY WATER WAY.
12. OTHER EROSION CONTROL MEASURES MAY BE REQUIRED IN ADDITION TO SCHEMES SHOWN ON THESE PLANS.
13. RING ANY TEMPORARY STOCK PILES OF TOPSOIL OR FILL WITH SILT FENCES, ITEM 209.13, AS SHOWN IN THE SILT FENCE DETAIL ON THE STANDARD DRAWINGS (209 SERIES), TO INTERCEPT SEDIMENT FROM THE EROSION OF THE PILE. PILES EXPOSED FOR LONGER THAN TWO WEEKS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH.
14. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER IN CHARGE.
15. CARE SHALL 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 AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY THE PROJECT ENGINEER.

PRUNING, IMPROVING AND REMOVING EXISTING VEGETATION

APPROX. C STA.	DIA. (IN)	TYPE	ITEM			
			614.060201	614.060204	614.060304	614.0701
8+39, LT.	6"	MAPLE	-	1 EA.	-	-
8+41, LT.	18"	OAK	-	-	1 EA.	-
8+42, LT.	10"	ASH	-	1 EA.	-	-
8+78, LT.	8"	ASH	1 EA.	-	-	-
8+79, LT.	6"	ASH	1 EA.	-	-	-
8+82, LT.	6"	ASH	1 EA.	-	-	-
8+82, LT.	12"	ASH	1 EA.	-	-	-
8+84, LT.	6"	APPLE	1 EA.	-	-	-
8+86, LT.	6"	ASH	1 EA.	-	-	-
10+03, RT.	6"	SPRUCE	2 EA.	-	-	-
10+10, RT.	6"	SPRUCE	1 EA.	-	-	-
10+16, RT.	10"	SPRUCE	1 EA.	-	-	-
10+02 TO 10+38, LT.	-	CEDAR HEDGE ROW	COST OF REMOVAL TO BE PAID FOR UNDER ITEM 201.06			
10+15, RT.	2"	SPRUCE	(8 EA.) COST OF REMOVAL TO BE PAID FOR UNDER ITEM 201.06			
10+46, RT.	-	STUMP	-	-	-	1 EA.
TOTAL:			10 EA.	2 EA.	1 EA.	1 EA.

ITEM DESCRIPTION:
 ITEM 614.060201, TREE REMOVAL OVER 6" TO 12" AT BEAST HEIGHT (STUMP REMOVAL TO BE INCLUDED UNDER ITEM 206.01)
 ITEM 614.060204, TREE REMOVAL OVER 6" TO 12" AT BEAST HEIGHT - STUMPS GRUBBED
 ITEM 614.060304, TREE REMOVAL OVER 12" TO 18" AT BEAST HEIGHT - STUMPS GRUBBED
 ITEM 614.0701, PRE-EXISTING STUMP REMOVAL UP TO 24" DIAMETER AT 6 INCHES ABOVE GRADE

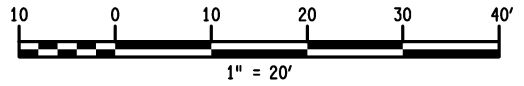
PROPOSED PLANTING TABLE

TIME OF YEAR FOR PLANTING: 4/15-5/31 AND 8/15-10/31

NO.	DISCRIPTION	APPROX. C STA.	ITEM
			611.0361
A	BALSAM FIR (<i>ABIES BALSAMEA</i>)	10+00, 26.0 LT.	1 EA.
B	AUSTRIAN PINE (<i>PINUS NIGRA</i>)	10+07, 36.0 LT.	1 EA.
C	RED PINE (<i>PINUS RESINOSA</i>)	10+13, 26.0 LT.	1 EA.
D	RED PINE (<i>PINUS RESINOSA</i>)	10+19, 36.0 LT.	1 EA.
E	RED PINE (<i>PINUS RESINOSA</i>)	10+25, 26.0 LT.	1 EA.
F	BALSAM FIR (<i>ABIES BALSAMEA</i>)	10+23, 26.0 RT.	1 EA.
G	AUSTRIAN PINE (<i>PINUS NIGRA</i>)	10+35, 26.0 RT.	1 EA.
H	RED PINE (<i>PINUS RESINOSA</i>)	10+11, 48.0 RT.	1 EA.
I	BALSAM FIR (<i>ABIES BALSAMEA</i>)	10+17, 36.0 RT.	1 EA.
J	AUSTRIAN PINE (<i>PINUS NIGRA</i>)	10+29, 36.0 RT.	1 EA.
TOTAL:			10 EA.

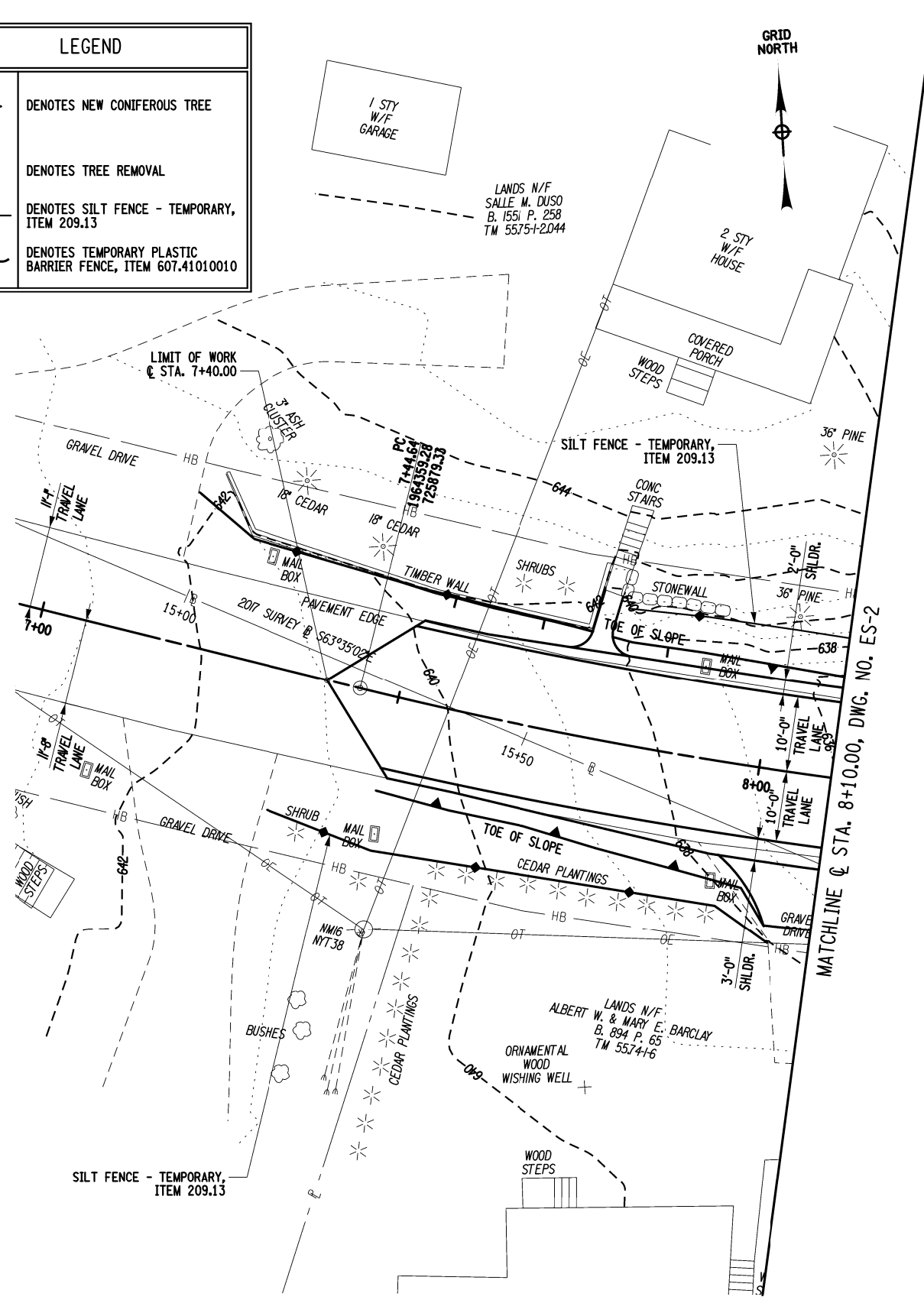
ITEM DESCRIPTION:
 ITEM 611.0361, PLANTING - CONIFEROUS TREES 6 FOOT HEIGHT BALL & BURLAP, FIELD POTTED OR FIELD BOXED.

NOTE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ENGINEER TO INSURE THAT THE PLACEMENT OF THE PROPOSED PLANTINGS IS TO THE SATISFACTION OF THE THE REPUTED PROPERTY OWNER.



LEGEND

- DENOTES NEW CONIFEROUS TREE
- DENOTES TREE REMOVAL
- DENOTES SILT FENCE - TEMPORARY, ITEM 209.13
- DENOTES TEMPORARY PLASTIC BARRIER FENCE, ITEM 607.41010010



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY ROUTE 10A
TOWN: ELIZABETHTOWN
COUNTY: ESSEX REGION: 1

PIN 1760.51
UTILITY QUALITY LEVEL C
BRIDGES 3301700
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
EROSION AND SEDIMENT CONTROL PLAN (1 OF 3)
WATER STREET OVER THE BRANCH

CONTRACT NUMBER D035818
DRAWING NO. ES-1
SHEET NO. 13 OF 61

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.

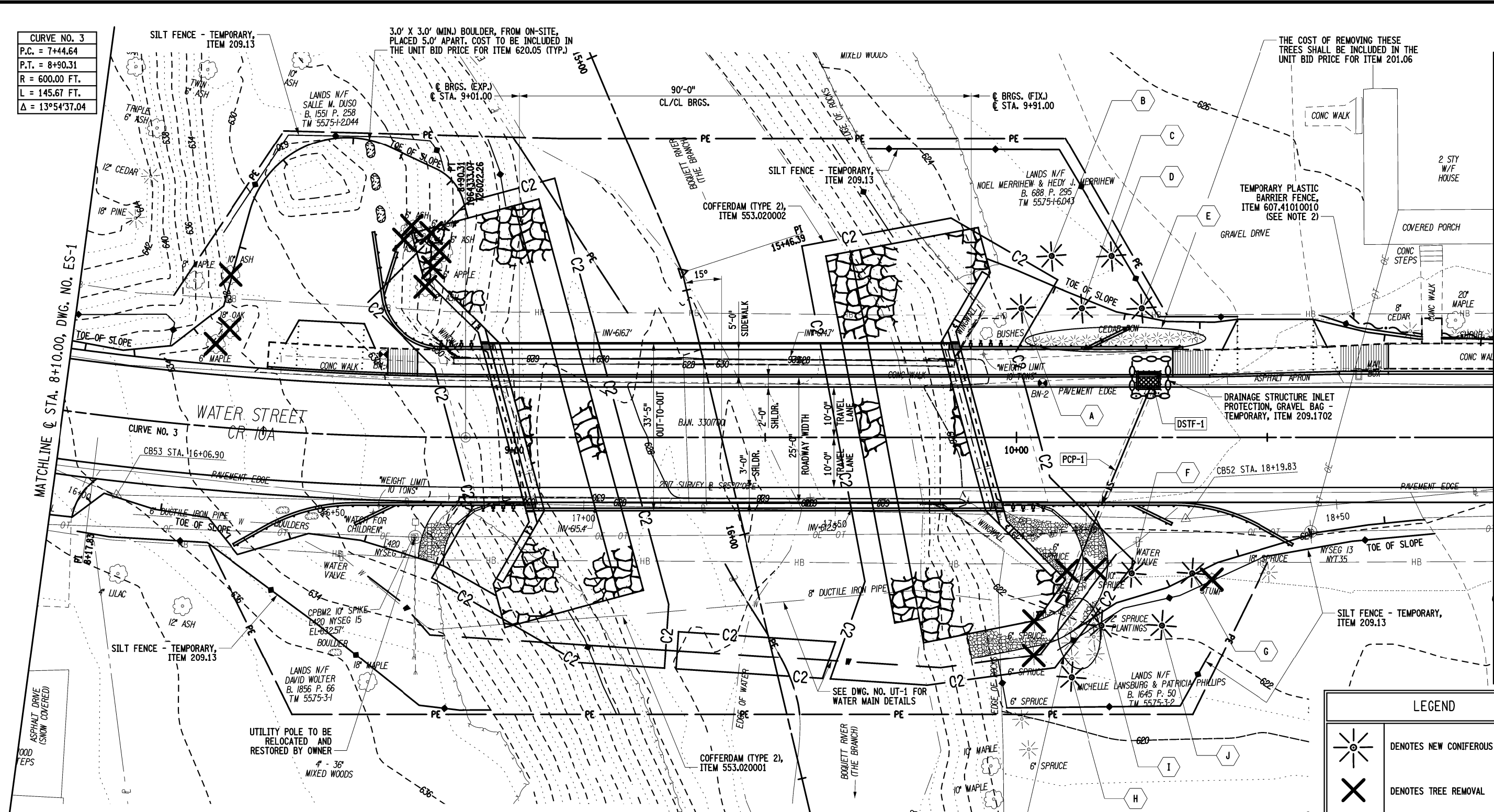


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CURVE NO. 3
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P.T. = 8+90.31
R = 600.00 FT.
L = 145.67 FT.
Δ = 13°54'37.04

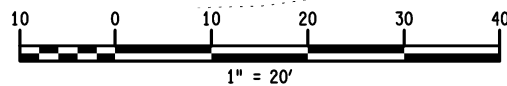


PROJECT MANAGER GWN
CHECK GWN
DRAFTING JAT
CHECK GWN
DESIGN JAT
JOB MANAGER GWN
DESIGN SUPERVISOR MTS



- NOTES:**
- SEE DWG. NO. ES-1 FOR EROSION AND SEDIMENT CONTROL NOTES, PLANTING TABLE AND LEGEND.
 - TEMPORARY PLASTIC BARRIER FENCE MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. TEMPORARY PLASTIC BARRIER FENCE SHALL BE PLACED IN FRONT OF EXISTING TREES AS SHOWN ON THE PLANS.

LEGEND	
	DENOTES NEW CONIFEROUS TREE
	DENOTES TREE REMOVAL
	DENOTES SILT FENCE - TEMPORARY, ITEM 209.13
	DENOTES TEMPORARY PLASTIC BARRIER FENCE, ITEM 607.41010010
	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BAG - TEMPORARY, ITEM 209.1702



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				EROSION AND SEDIMENT CONTROL PLAN (2 OF 3)	DRAWING NO. ES-2
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 14 OF 61
	COUNTY: ESSEX	REGION: 1				

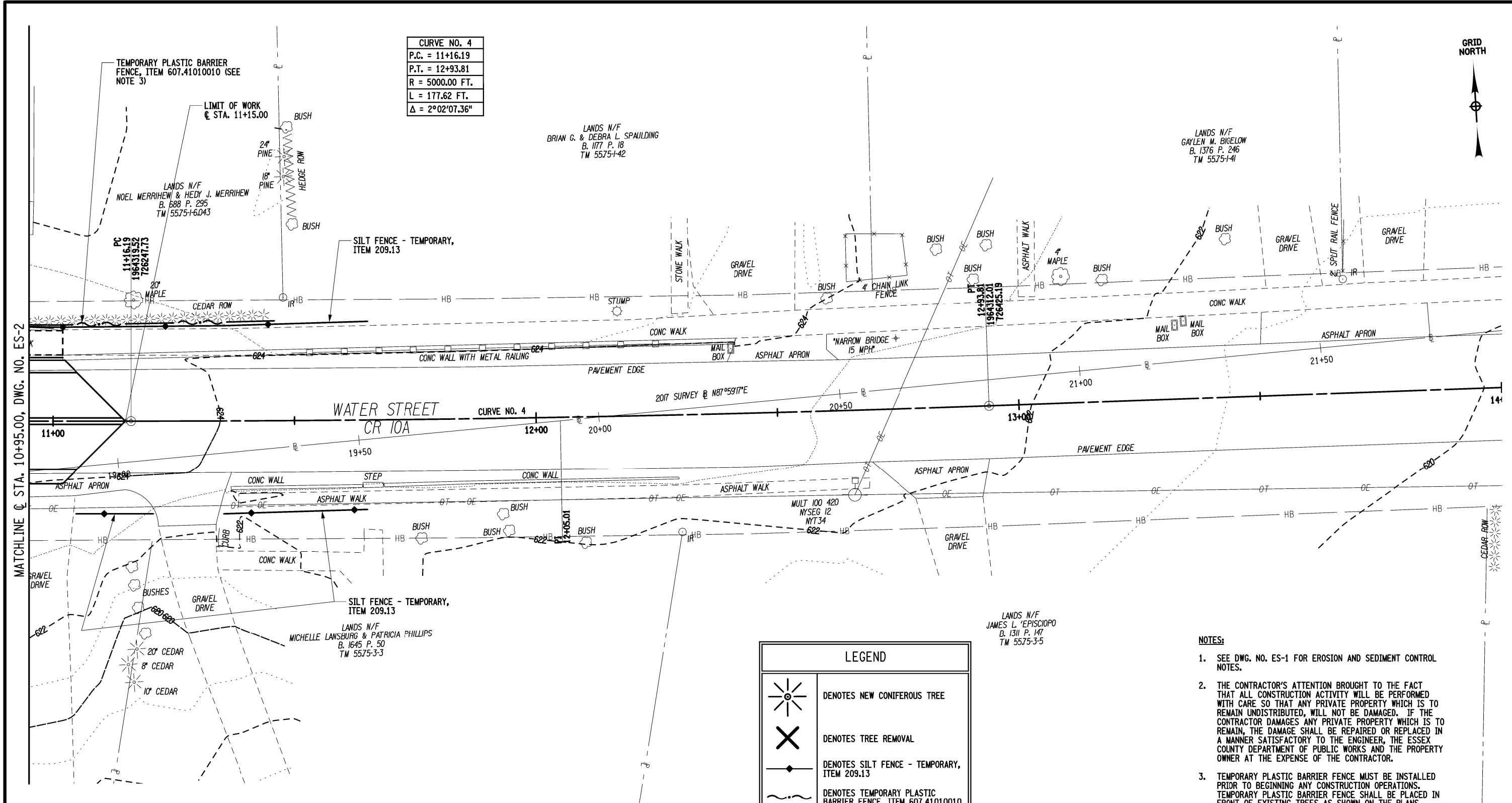
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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.



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USER = gneaddo

FILE NAME = 176051_cpb_eop.dgn
 DATE/TIME = 4/16/2021 9:39:20 AM
 USER = gneaddo

PROJECT MANAGER GWN
 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS



CURVE NO. 4
P.C. = 11+16.19
P.T. = 12+93.81
R = 5000.00 FT.
L = 177.62 FT.
$\Delta = 2^{\circ}02'07.36''$

LEGEND	
	DENOTES NEW CONIFEROUS TREE
	DENOTES TREE REMOVAL
	DENOTES SILT FENCE - TEMPORARY, ITEM 209.13
	DENOTES TEMPORARY PLASTIC BARRIER FENCE, ITEM 607.41010010
	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BAG - TEMPORARY, ITEM 209.1702

- NOTES:**
- SEE DWG. NO. ES-1 FOR EROSION AND SEDIMENT CONTROL NOTES.
 - THE CONTRACTOR'S ATTENTION BROUGHT TO THE FACT THAT ALL CONSTRUCTION ACTIVITY WILL BE PERFORMED WITH CARE SO THAT ANY PRIVATE PROPERTY WHICH IS TO REMAIN UNDISTRIBUTED, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY PRIVATE PROPERTY WHICH IS TO REMAIN, THE DAMAGE SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER, THE ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS AND THE PROPERTY OWNER AT THE EXPENSE OF THE CONTRACTOR.
 - TEMPORARY PLASTIC BARRIER FENCE MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. TEMPORARY PLASTIC BARRIER FENCE SHALL BE PLACED IN FRONT OF EXISTING TREES AS SHOWN ON THE PLANS.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY ROUTE 10A
TOWN: ELIZABETHTOWN
COUNTY: ESSEX REGION: 1

PIN 1760.51
UTILITY QUALITY LEVEL C
BRIDGES 3301700
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
EROSION AND SEDIMENT CONTROL PLAN (3 OF 3)
WATER STREET OVER THE BRANCH

CONTRACT NUMBER D035818
DRAWING NO. ES-3 SHEET NO. 15 OF 61

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.



FILE NAME = 176051_cph_wzt.dgn
 DATE/TIME = 4/16/2021 9:49:40 AM
 USER = gneaddo

DESIGN SUPERVISOR MTS

JOB MANAGER GWN

DESIGN JAT

CHECK GWN

DRAFTING JAT

CHECK GWN

PROJECT MANAGER GWN

GENERAL NOTES:

- SEE DWG. NO. TC-2 FOR ADDITIONAL WORK ZONE TRAFFIC CONTROL DETAILS AND SIGN TEXT DATA TABLE.
- 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.
- PVMS NO. 1, NO. 2 AND NO. 3 SHALL BE INSTALLED A MINIMUM OF TWO WEEKS PRIOR TO CLOSING THE ROAD AND THE MESSAGE SHALL READ "WATER ST. BRIDGE CLOSED BEGINNING ON XX/XX/XX".

AFTER THE TWO WEEK MINIMUM THE MESSAGE ON PVMS NO. 1 SHALL BE CHANGED TO READ "WATER STREET CLOSED" AND "USE POSTED DETOUR" THROUGHOUT THE DURATION OF THE CONTRACT. THE MESSAGE ON PVMS NO. 2 AND NO. 3 SHALL BE CHANGED TO READ "WATER STREET CLOSED", "CROSS STREET OPEN" AND "USE POSTED DETOUR" THROUGHOUT THE DURATION OF THE CONTRACT.

WORK ZONE TRAFFIC CONTROL NOTES:

- THE COST OF WORK ZONE TRAFFIC CONTROL (WZTC) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 619 OF THE STANDARD SPECIFICATIONS, THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS - 2009 EDITION (M.U.T.C.D.), THE NEW YORK STATE SUPPLEMENT TO THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS - 2009 EDITION, THE WORK ZONE TRAFFIC CONTROL (WZTC) DETAILS ON THE PLANS AND PROPOSAL OR A.O.B.E. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAINING ALL NECESSARY PERMITS FOR WORK ZONE TRAFFIC CONTROL.
- PRIOR TO THE START OF WORK OPERATIONS, ALL RELATED WORK NECESSARY FOR WORK ZONE TRAFFIC CONTROL, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETE. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SIGNS, PAVEMENT MARKINGS, BARRIERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.
- THE WORK ZONE TRAFFIC CONTROL PLAN IS NOT INTENDED TO BE ALL INCLUSIVE, BUT RATHER SERVE AS A GUIDE FOR THE SAFE AND EFFICIENT SEQUENCE OF CONSTRUCTION OPERATIONS. ANY INCIDENTAL ADDITIONS OR REVISIONS TO THIS TRAFFIC CONTROL PLAN ORDERED BY THE ENGINEER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL. IF THE CONTRACTOR PROPOSES ANY CHANGES TO THE TRAFFIC CONTROL PLAN, THEY MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF THE WORK. ANY CHANGE WHICH ALTERS THE BASIC CONCEPT OF THIS PLAN MUST BE APPROVED BY THE ENGINEER.
- THE FOLLOWING STANDARD SHEETS SHALL BE USED AS NECESSARY FOR TRAFFIC CONTROL: 619-01, 619-02, 619-04, 619-10, 619-11, 619-12, AND 619-66.
- ALL TEMPORARY SIGNS AND PAVEMENT MARKINGS NECESSARY FOR THE WORK ZONE TRAFFIC CONTROL AS NOTED IN THE PLANS, NYSDOT STANDARD SPECIFICATIONS, N.Y.S. M.U.T.C.D. OR A.O.B.E. SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION SIGNS, BARRICADES, CONES, AND VERTICAL PANELS SHALL BE REFLECTORIZED IN ACCORDANCE WITH SECTION 730-05.02 OF THE STANDARD SPECIFICATIONS.
- ALL GUIDE RAIL WORK SHALL BE COMPLETED PRIOR TO THE OPENING OF THE ROADWAY TO TRAFFIC.

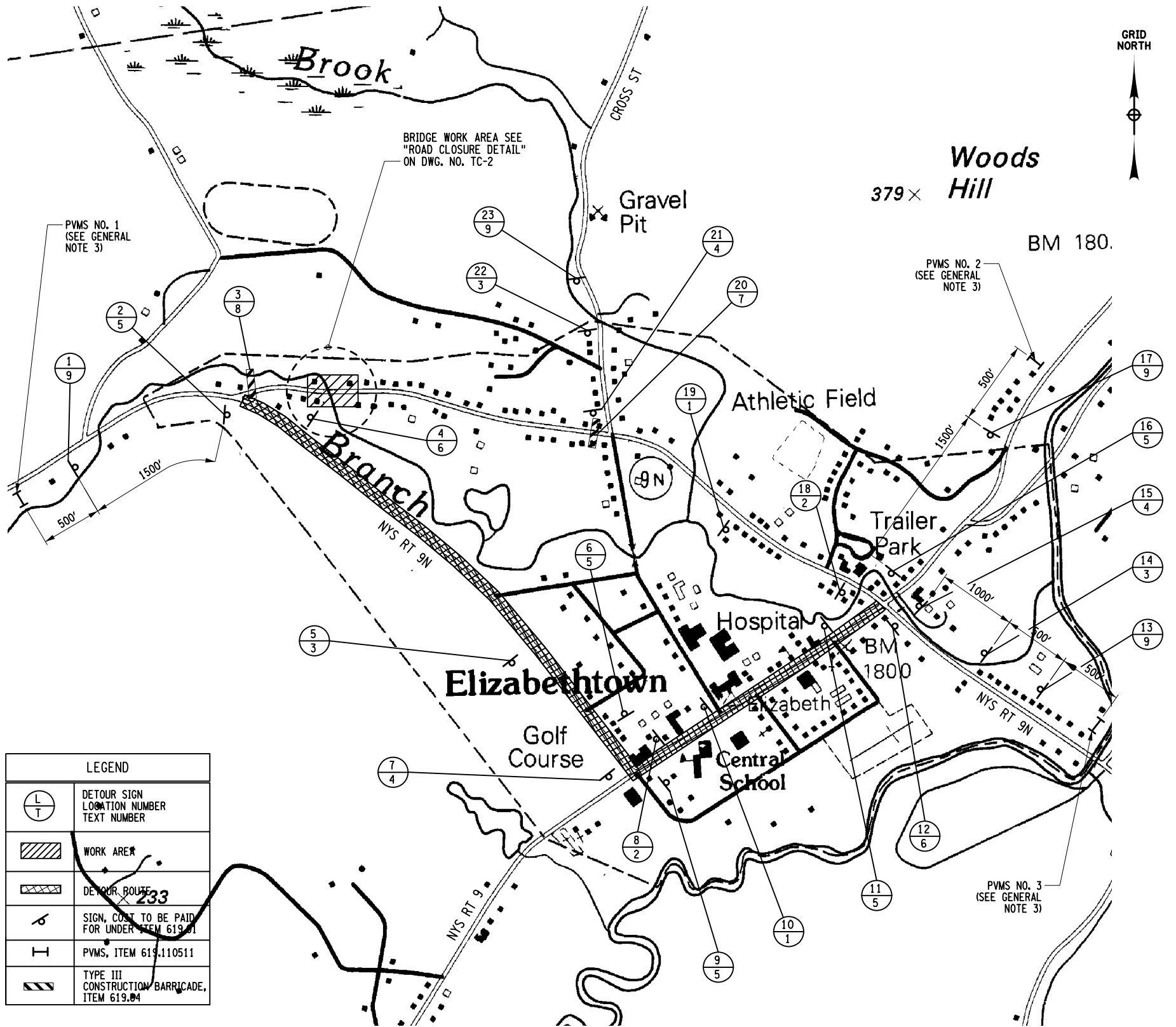
- MAINTAINING SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO 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.

SIGN NOTES:

- ALL SIGNS, INCLUDING EXISTING SIGNS, SHALL INDICATE ACCURATE CONDITIONS AT ALL TIMES AND SHALL BE COVERED, MOVED, REMOVED OR CHANGED AS NECESSARY OR DIRECTED BY THE ENGINEER. SIGNS SHALL NOT BE PLACED AT LOCATIONS WHERE THEY ARE OBSCURED BY TEMPORARY OR PERMANENT OBJECTS OR ARE A HAZARD TO PUBLIC SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO, OR FOR THE REPLACEMENT OF, THE EXISTING SIGNS DUE TO THE REMOVAL, STORAGE, RESETTING OR COVERING OF THE SIGNS, AT NO COST TO THE COUNTY.
- IF SIGNING CONFLICTS WITH DRIVEWAYS OR SIDE ROADS, SIGNS SHALL BE MOVED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNING, FLAGGERS AND OTHER WORK ZONE TRAFFIC CONTROL DEVICES WHEN OPERATIONS REQUIRE TRAFFIC TO BE STOPPED SUCH AS CROSSING OPERATIONS FOR EQUIPMENT, DELIVERY OF MATERIALS, AND OTHER ACTIVITIES AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE PAID FOR INSTALLATION AND REMOVAL OF BARRICADES UNDER ITEM 619.01. ANY MOVEMENT OR REARRANGEMENT OF THESE BARRICADES TO SUIT THE CONTRACTOR'S OPERATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TRIM ANY FOLIAGE OBSTRUCTING THE VISIBILITY OF ANY SIGNS (PERMANENT, TEMPORARY, OR CONSTRUCTION) AS NEEDED FOR WORK ZONE TRAFFIC CONTROL AS DETERMINED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.
- FLASHING WARNING LIGHTS FOR CONSTRUCTION SIGNS SHALL BE INCLUDED IN THE PRICE BID ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

WORK AREA COORDINATION NOTES:

- THE CONTRACTOR, IN COORDINATION WITH THE ENGINEER, SHALL CONTACT LOCAL SCHOOL OFFICIALS FOUR WEEKS IN ADVANCE OF ANY CLOSING OR IMPLEMENTATION OF DETOURS TO ALLOW FOR ADEQUATE TIME FOR THE SCHOOL TO MAKE NECESSARY ADJUSTMENTS TO BUS SCHEDULES AND ROUTES.
- AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS. LOCAL FIRE, POLICE AND AMBULANCE AGENCIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK AND PRIOR TO THE IMPLEMENTATION OF ANY OFF-SITE DETOUR CHANGES IN ORDER TO COORDINATE AND MAINTAIN SUFFICIENT EMERGENCY SERVICES.
- THE CONTRACTOR SHALL SUBMIT TO THE APPROPRIATE LAW ENFORCEMENT AND EMERGENCY AGENCIES, IN WRITING, THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE 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-IN-CHARGE.



DETOUR PLAN

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C				WORK ZONE TRAFFIC CONTROL PLAN AND NOTES
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 16 OF 61
	COUNTY: ESSEX	REGION: 1				
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.						

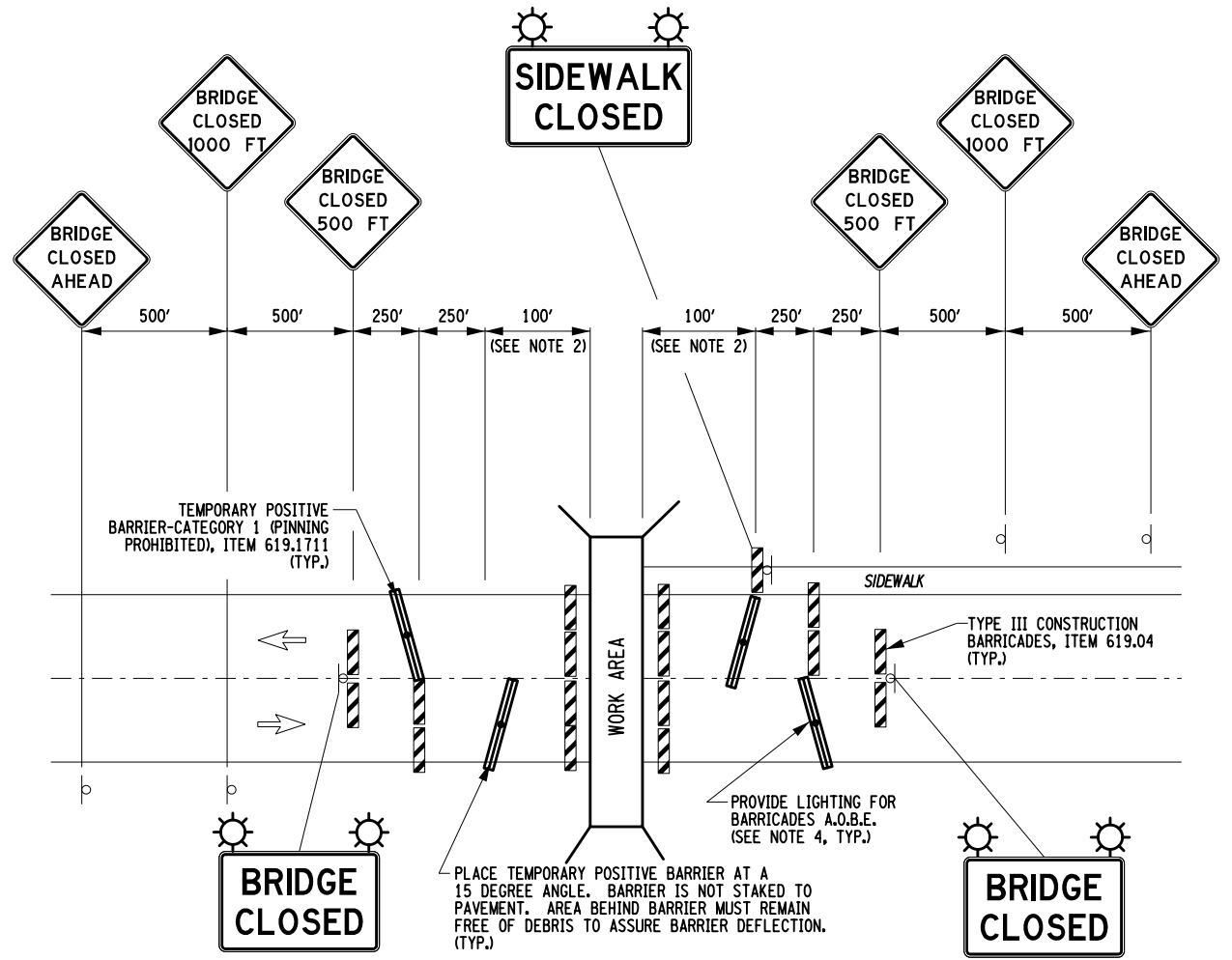


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 USER = gneddo

PROJECT MANAGER GWN
 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

SIGN TEXT DATA TABLE

TEXT NUMBER	LOCATION	TEXT	M.U.T.C.D. NUMBER	TEXT NUMBER	LOCATION	TEXT	M.U.T.C.D. NUMBER
1	10, 19		M4-8 (24"x12") D3-1 M5-1R (21"x15")	6	4, 12		M4-8A (24"x18") D3-1
2	8, 18		M4-8 (24"x12") D3-1 M6-1R (21"x15")	7	20		R11-3A (MOD.) 60"x30"
3	5, 14, 22		M4-8 (24"x12") D3-1 M5-1L (21"x15")	8	3		R11-3A (MOD.) 60"x30"
4	7, 15, 21		M4-8 (24"x12") D3-1 M6-1L (21"x15")	9	1, 13, 17, 23		W20-2 (MOD.) 36"x36"
5	2, 6, 9, 11, 16		M4-8 (24"x12") D3-1 M6-3 (21"x15")	10	AS SHOWN ON "ROAD CLOSURE DETAIL"		W20-3 (MOD.) 36"x36"
				11	AS SHOWN ON "ROAD CLOSURE DETAIL"		W20-3 (MOD.) 36"x36"
				12	AS SHOWN ON "ROAD CLOSURE DETAIL"		R11-2 (48"x30")
				13	AS SHOWN ON "ROAD CLOSURE DETAIL"		R11-2 (48"x30")



ROAD CLOSURE DETAIL
 NOT TO SCALE

- ROAD CLOSURE DETAIL NOTES:
1. THE TEMPORARY POSITIVE BARRIER SHALL BE REPLACED WITH TYPE III CONSTRUCTION BARRICADES WHEN THE DROP-OFF NO LONGER EXISTS.
 2. THE 100' OFFSET MAY BE REDUCED AS REQUIRED OR A.O.B.E. TO ALLOW ACCESS TO DRIVEWAYS OUTSIDE OF THE WORK AREA.
 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL THE REQUIRED SIGNAGE AND BARRIERS FOR THE "ROAD CLOSURE DETAIL" AS SHOWN ON THE CONTRACT PLANS OR AS A.O.B.E. COST FOR THIS WORK WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL, UNLESS OTHERWISE
 4. LIGHTING FOR CONCRETE BARRIER SHALL BE PROVIDED IN ACCORDANCE WITH ITEM 619.1719, WARNING LIGHTS ON TEMPORARY POSITIVE BARRIERS

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY ROUTE 10A
 TOWN: ELIZABETHTOWN
 COUNTY: ESSEX REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C
 BRIDGES 3301700
 CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 WORK ZONE TRAFFIC CONTROL
 DATA TABLE AND DETAILS
 WATER STREET
 OVER
 THE BRANCH

CONTRACT NUMBER
 D035818
 DRAWING NO. TC-2
 SHEET NO. 17 OF 61

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.



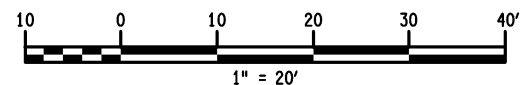
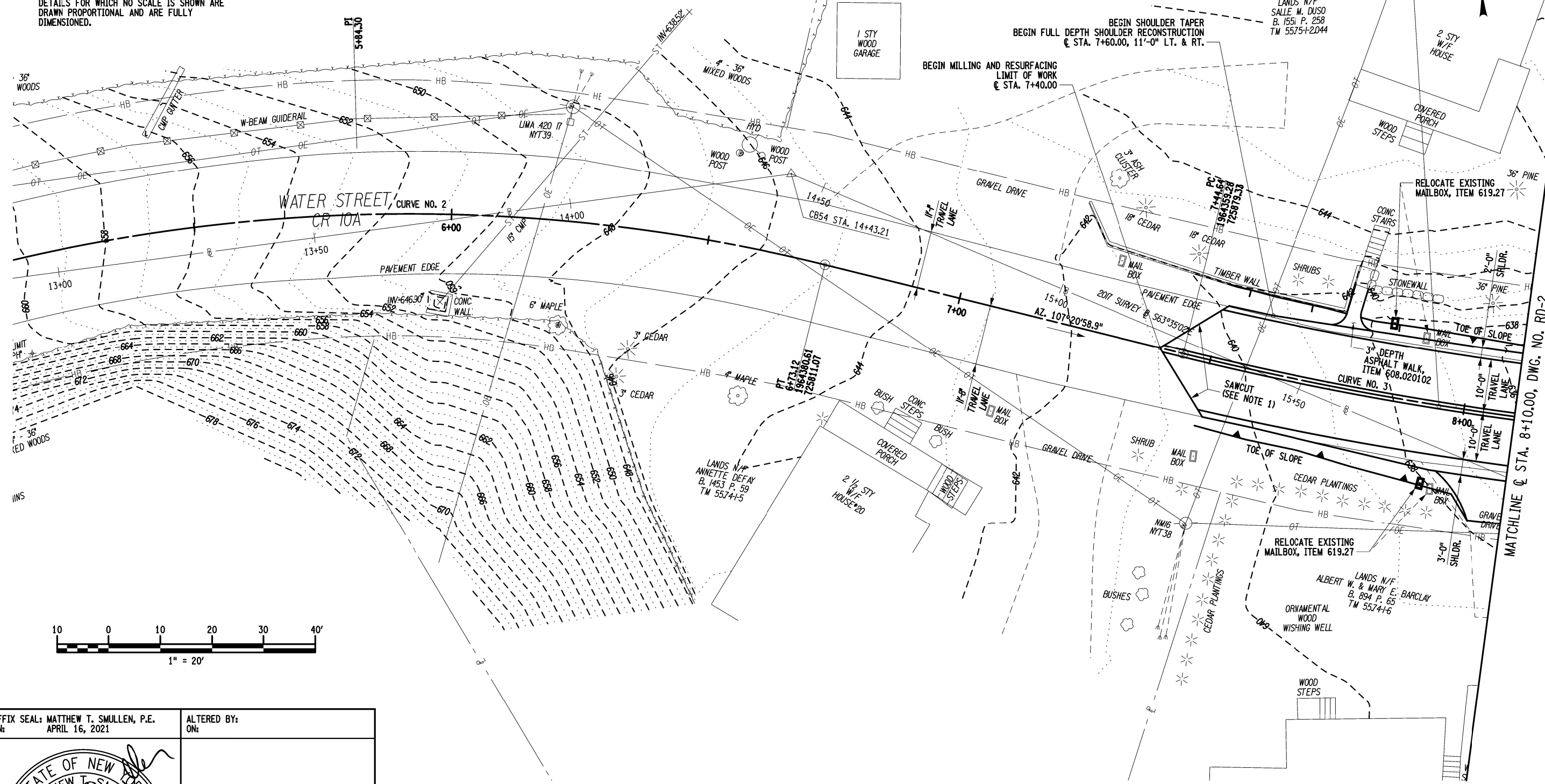
NOTES:

1. THE COST OF SAW CUTTING THE EXISTING ASPHALT PAVEMENT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 490.30. APPLY ASPHALT PAVEMENT JOINT ADHESIVE, ITEM 418.7603 AT JOINT BETWEEN EXISTING AND NEW PAVEMENT.
2. 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.

CURVE 2	
P.C.	= 4+90.85
P.T.	= 6+73.12
R	= 335 FT.
L	= 182.27 FT.
Δ	= 31°10'26.72

CURVE 3	
P.C.	= 7+44.64
P.T.	= 8+90.31
R	= 600.00 FT.
L	= 145.67 FT.
Δ	= 13°54'37.04

PROJECT MANAGER GVN
CHECK GVN
DRAFTING JAT
CHECK GVN
DESIGN JAT
JOB MANAGER GVN
DESIGN SUPERVISOR MTS



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C			ROADWAY PLAN (1 OF 3)	DRAWING NO. RD-1
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 18 OF 61
	COUNTY: ESSEX	REGION: 1				

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.

MATCHLINE @ STA. 8+10.00, DWG. NO. RD-2

CONTRACT NUMBER
D035818

DRAWING NO. RD-1
SHEET NO. 18 OF 61



FILE NAME = 176051_cpb_gen.dgn
DATE/TIME = 4/16/2021 9:46:46 AM
USER = gneaddo

CURVE 3
 P.C. = 7+44.64
 P.T. = 8+90.31
 R = 600.00 FT.
 L = 145.67 FT.
 Δ = 13°54'37.04

3.0' X 3.0' (MIN.) BOULDER, FROM ON-SITE,
 PLACED 5.0' APART. COST TO BE INCLUDED IN
 THE UNIT BID PRICE FOR ITEM 620.05 (TYP.)

LANDS N/F
 SALLE M. DUSO
 B. 1951 P. 258
 TM 55751-2044

M1
 P1
 PE
 2,974 SF

M2
 P2
 PE
 3,175 SF

M3
 P3
 PE
 3,201 SF

END FULL DEPTH RECONSTRUCTION
 END SHOULDER TAPER
 BEGIN FULL DEPTH SHOULDER RECONSTRUCTION,
 12'-6" LT. & 13'-0" RT.
 RESUME MILLING AND RESURFACING
 @ STA. 10+65.00

REMOVE AND STORE SIGN
 PANEL, SIGN PANEL ASSEMBLY
 SIZE 1 (UNDER 30 SQUARE
 FEET), ITEM 647.41 (TYP.)

DSTF-1
 T.G. 625.60
 S. INV. 621.75
 PCP-1
 INV. IN: 621.75
 INV. OUT: 621.50

THE COST OF REMOVING
 THESE TREES SHALL BE
 INCLUDED IN THE UNIT BID
 PRICE FOR ITEM 201.06

RELOCATE EXISTING
 MAILBOX,
 ITEM 619.27

THE COST OF REMOVING THESE
 TREES SHALL BE INCLUDED IN THE
 UNIT BID PRICE FOR ITEM 201.06

NOTE:

1. 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.

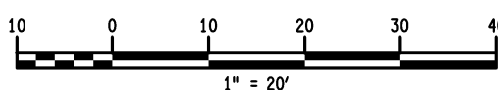
LEGEND



★ DENOTES NEW CONIFEROUS TREE. SEE DWG. NO. ES-1 THROUGH ES-3 FOR DETAILS.



✕ DENOTES TREE REMOVAL. SEE DWG. NO. ES-1 THROUGH ES-3 FOR DETAILS.



PROJECT MANAGER GWN

CHECK GWN

DRAFTING JAT

CHECK GWN

DESIGN JAT

JOB MANAGER GWN

DESIGN SUPERVISOR MTS

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

COUNTY ROUTE 10A

TOWN: ELIZABETHTOWN

COUNTY: ESSEX

PIN 1760.51

UTILITY QUALITY LEVEL C

BRIDGES
 3301700

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

CONTRACT NUMBER

D035818

ROADWAY PLAN
 (2 OF 3)
 WATER STREET
 OVER
 THE BRANCH

DRAWING NO. RD-2

SHEET NO. 19 OF 61

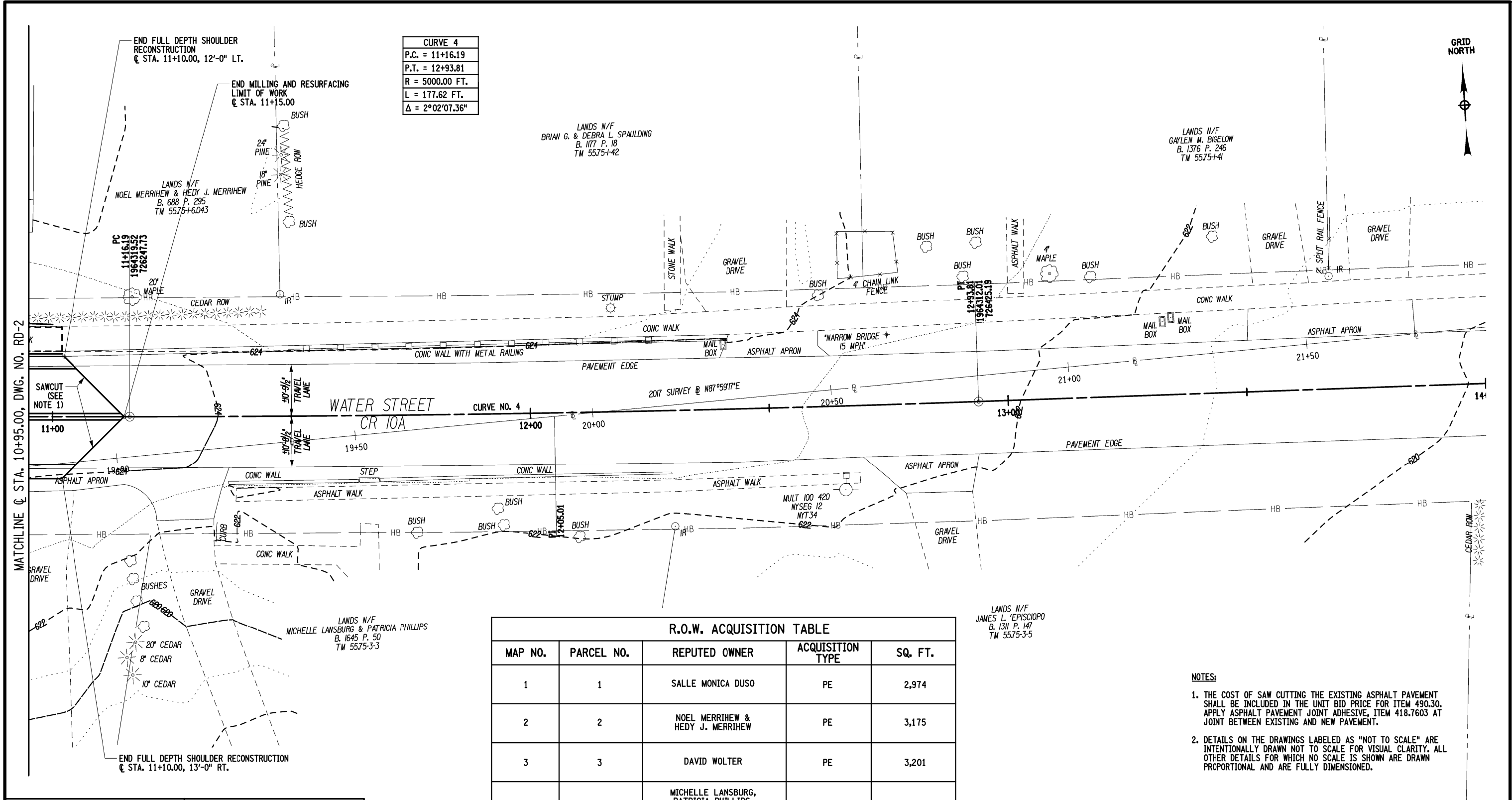
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PROJECT MANAGER GWN
 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

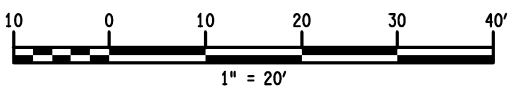


CURVE 4	
P.C. =	11+16.19
P.T. =	12+93.81
R =	5000.00 FT.
L =	177.62 FT.
Δ =	2°02'07.36"



R.O.W. ACQUISITION TABLE				
MAP NO.	PARCEL NO.	REPUTED OWNER	ACQUISITION TYPE	SQ. FT.
1	1	SALLE MONICA DUSO	PE	2,974
2	2	NOEL MERRIHEW & HEDY J. MERRIHEW	PE	3,175
3	3	DAVID WOLTER	PE	3,201
4	4	MICHELLE LANSBURG, PATRICIA PHILLIPS, ELIZABETH PHILLIPS, MARSHALL PHILLIPS, PATRICIA PHILLIPS, KEENAN PHILLIPS & BRIAN PHILLIPS	PE	2,781

- NOTES:**
- THE COST OF SAW CUTTING THE EXISTING ASPHALT PAVEMENT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 490.30. APPLY ASPHALT PAVEMENT JOINT ADHESIVE, ITEM 418.7603 AT JOINT BETWEEN EXISTING AND NEW PAVEMENT.
 - 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.



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY ROUTE 10A
 TOWN: ELIZABETHTOWN
 COUNTY: ESSEX REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C
 BRIDGES 3301700
 CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 ROADWAY PLAN
 (3 OF 3)
 WATER STREET
 OVER
 THE BRANCH

CONTRACT NUMBER
 D035818
 DRAWING NO. RD-3
 SHEET NO. 20 OF 61

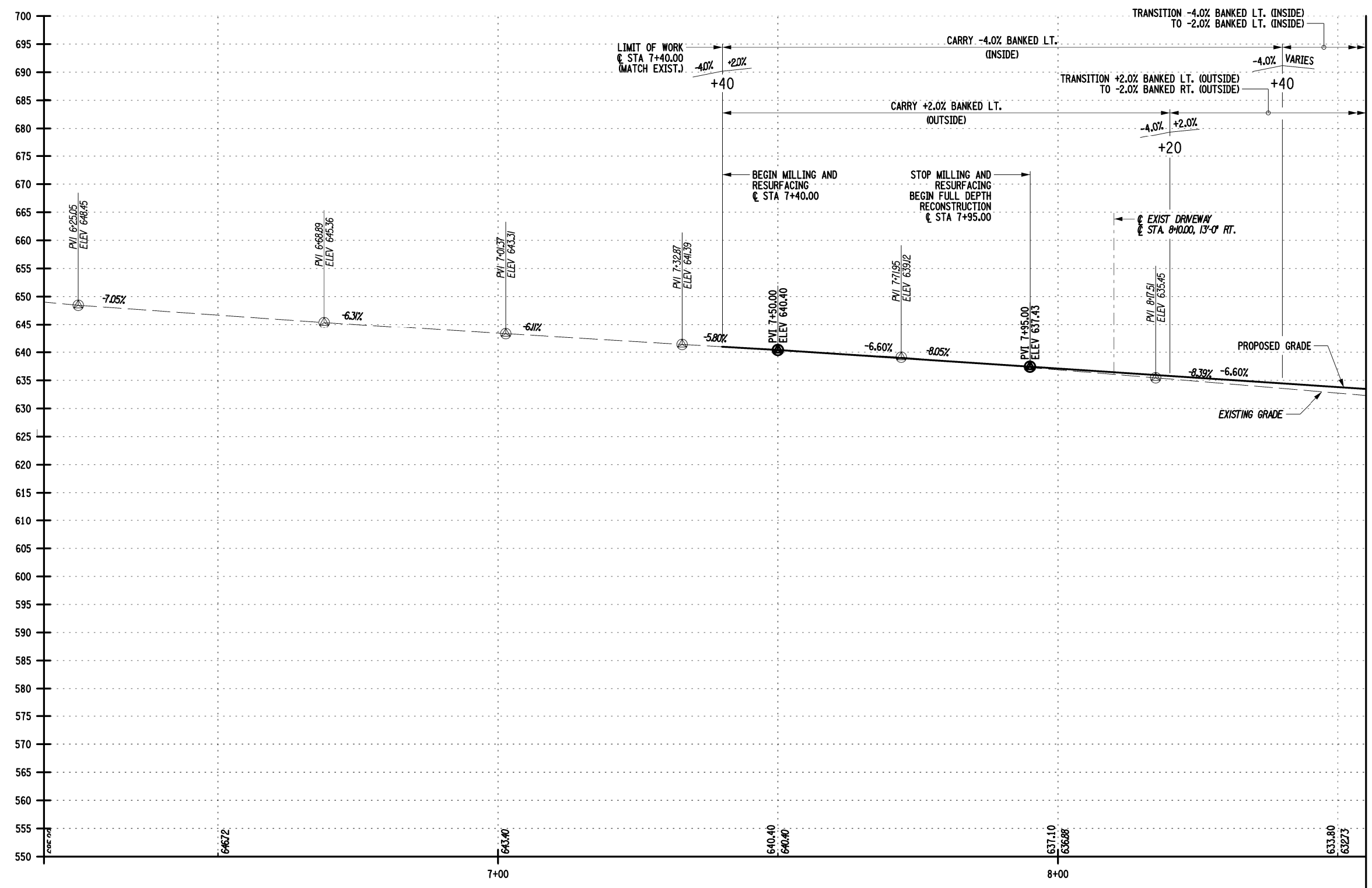
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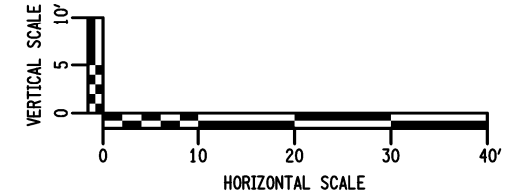
ELEVATION



MATCHLINE @ STA. 8+55.00, DWG. NO. PR-2

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:

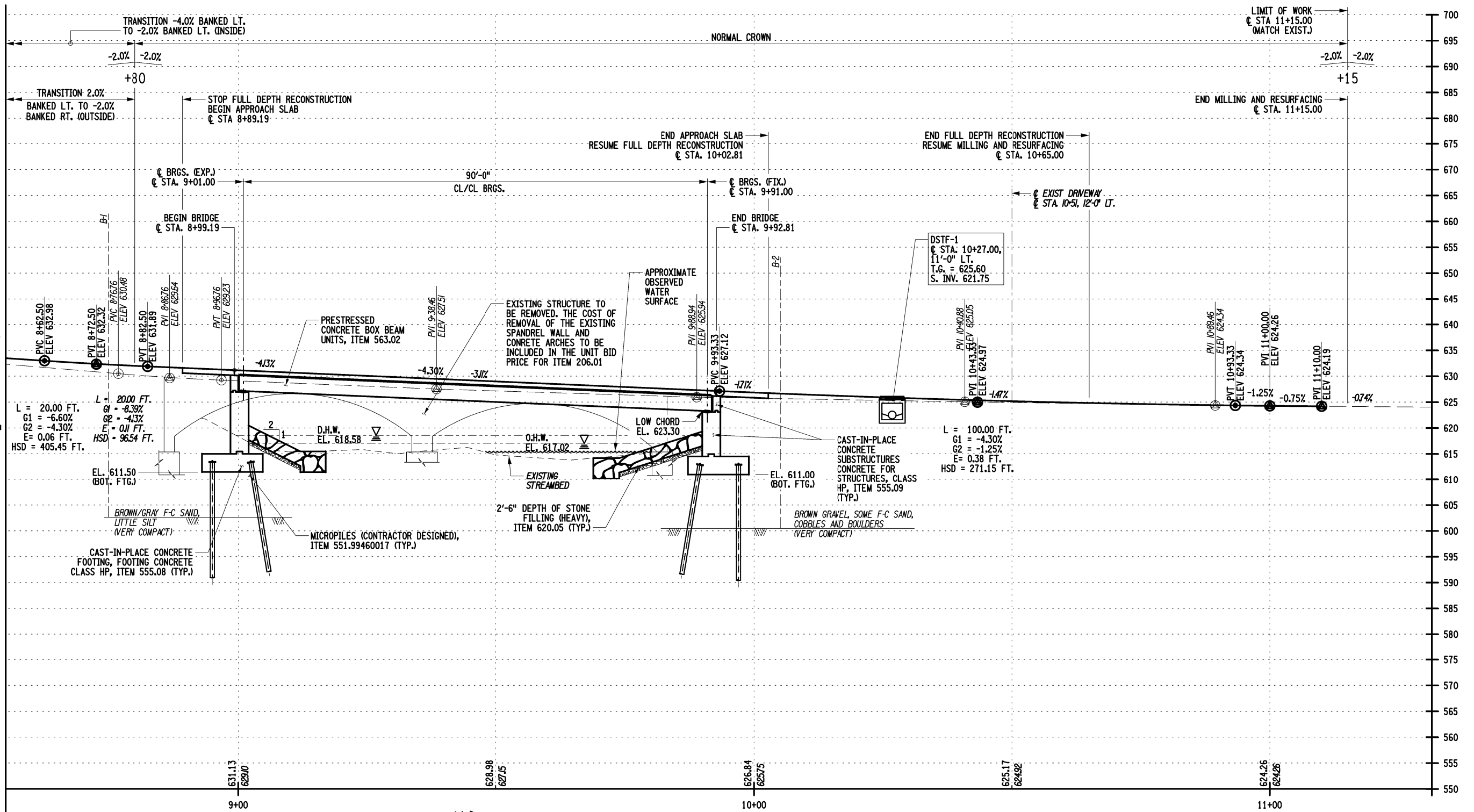


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C				ROADWAY PROFILE (1 OF 2) WATER STREET OVER THE BRANCH
TOWN: ELIZABETHTOWN		REGION: 1	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.			
COUNTY: ESSEX		CPL ARCHITECTURE ENGINEERING PLANNING CPLteam.com				

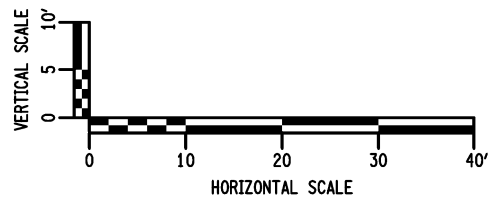
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 USER = gneaddo

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 DESIGN JAT
 JOB MANAGER GVN
 DESIGN SUPERVISOR MTS

MATCHLINE @ STA. 8+55.00, DWG. NO. PR-1



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:

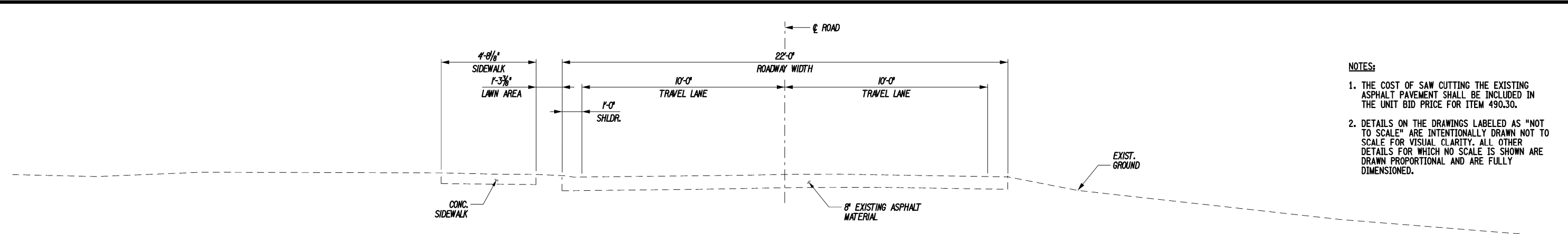


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C	3301700		D035818
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION 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.	TOWN: ELIZABETHTOWN	REGION: 1	CULVERTS	ROADWAY PROFILE (2 OF 2) WATER STREET OVER THE BRANCH	DRAWING NO. PR-2
	COUNTY: ESSEX				SHEET NO. 22 OF 61



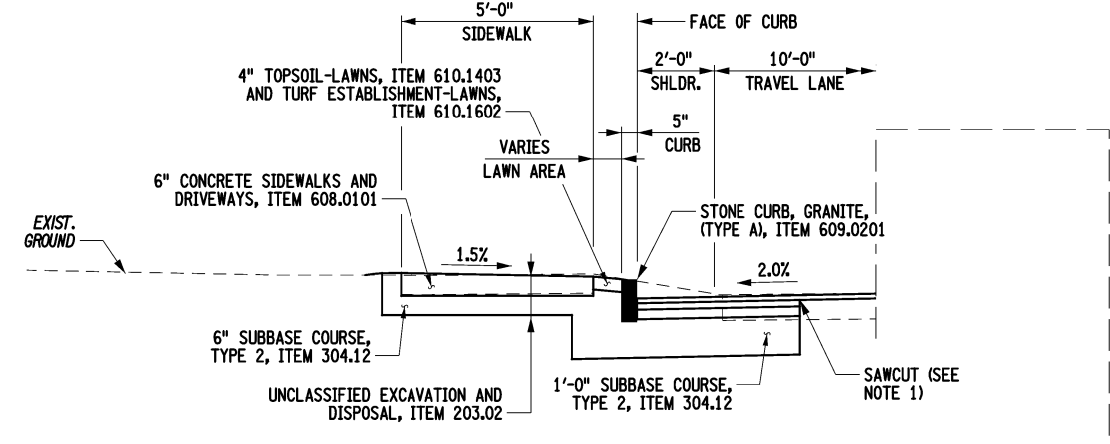
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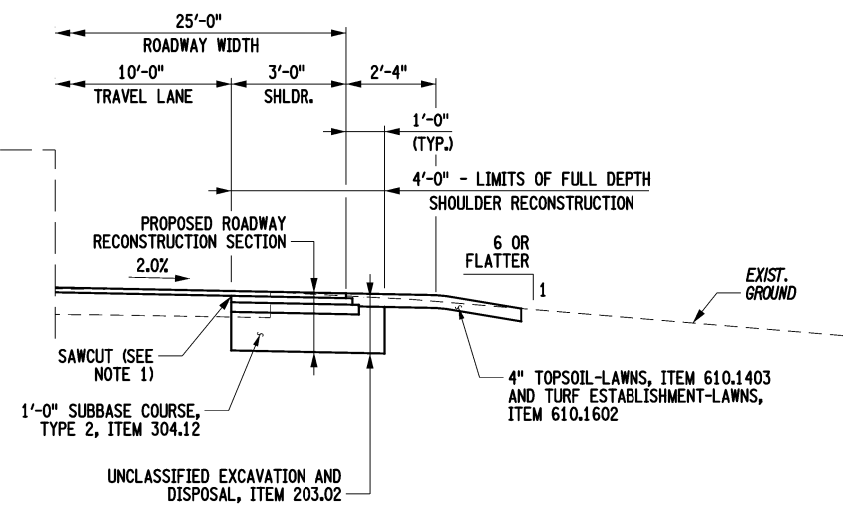


TYPICAL EXISTING ROADWAY SECTION

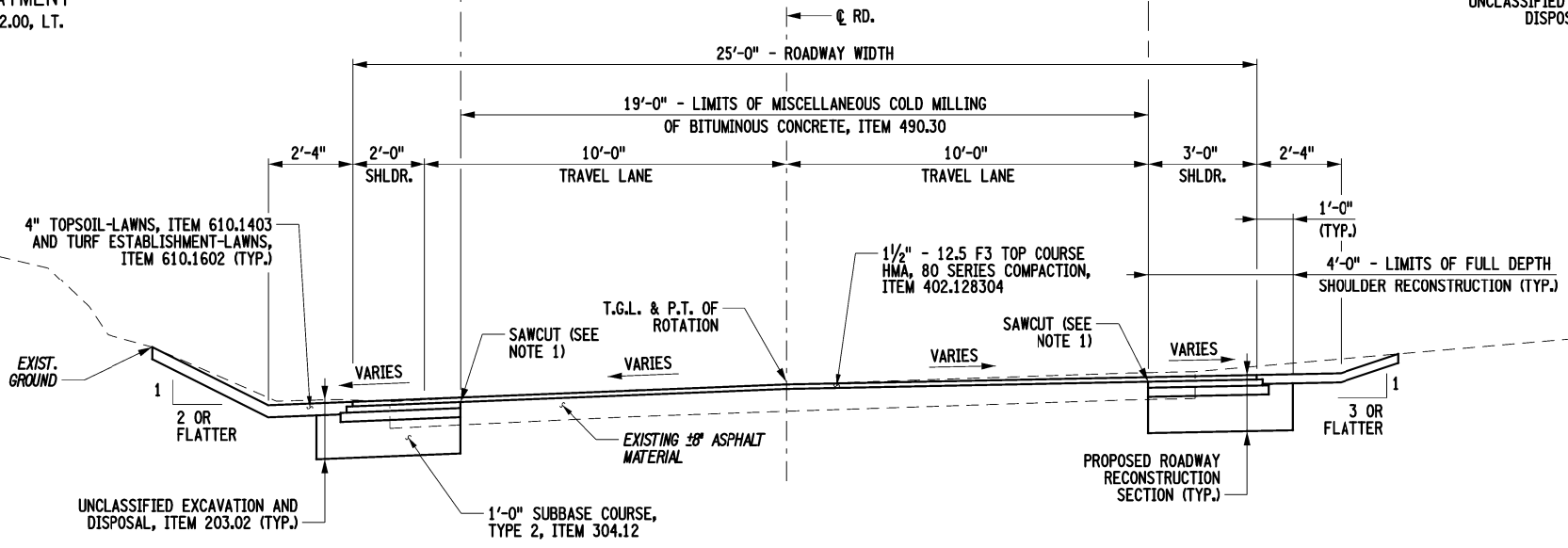
- NOTES:**
1. THE COST OF SAW CUTTING THE EXISTING ASPHALT PAVEMENT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 490.30.
 2. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.



TYPICAL SHOULDER TREATMENT
 @ STA. 10+65.00 TO @ STA. 11+02.00, LT.



TYPICAL SHOULDER TREATMENT
 @ STA. 10+65.00 TO @ STA. 11+02.00, RT.



TYPICAL ROADWAY MILLING AND RESURFACING SECTION

TYPICAL SHOULDER TREATMENT
 @ STA. 7+52.00 TO @ STA. 7+95.00, LT.

TYPICAL SHOULDER TREATMENT
 @ STA. 7+60.00 TO @ STA. 7+95.00, RT.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:

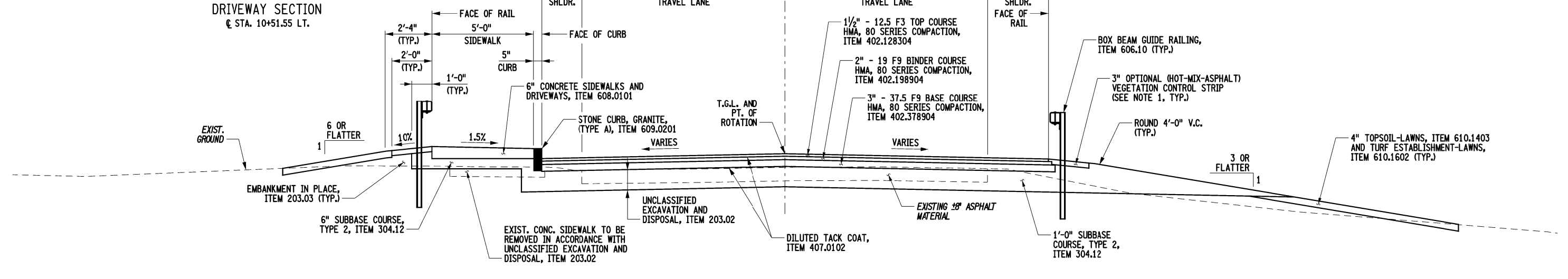
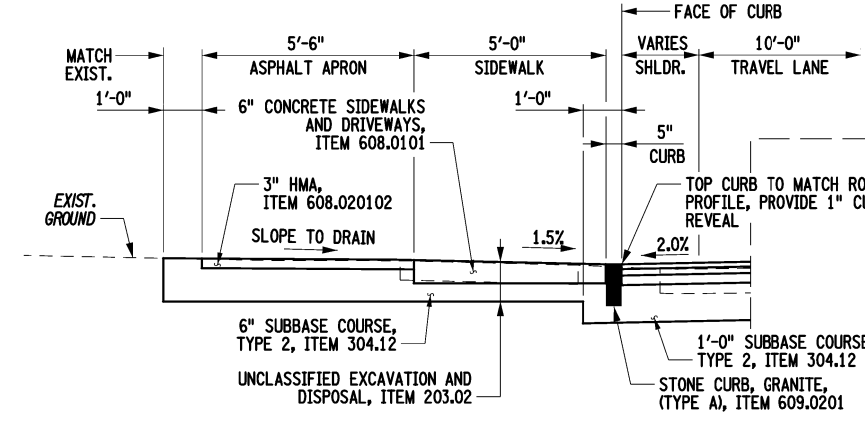
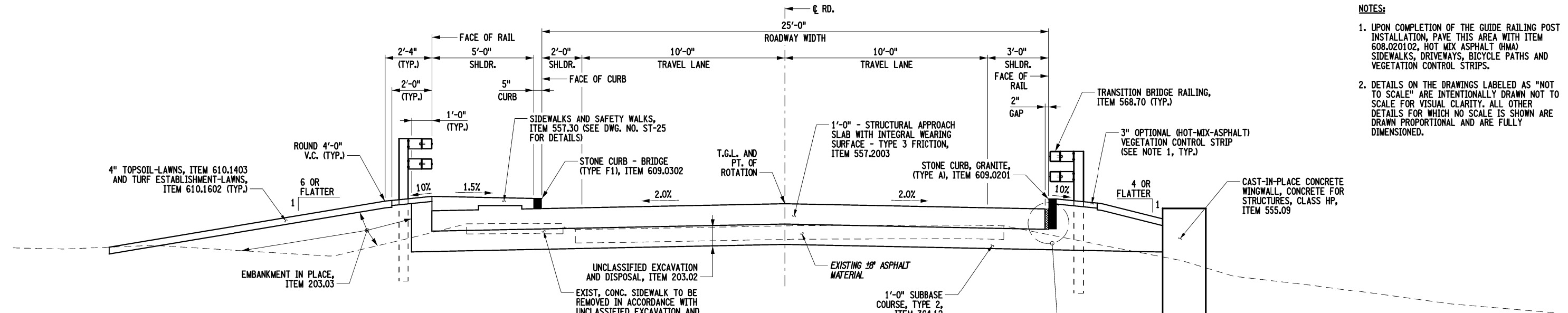


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C				TYPICAL SECTIONS (1 OF 3) WATER STREET OVER THE BRANCH
	TOWN: ELIZABETHTOWN					
	COUNTY: ESSEX	REGION: 1				
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 MANAGER GWN
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 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

- NOTES:**
- UPON COMPLETION OF THE GUIDE RAILING POST INSTALLATION, PAVE THIS AREA WITH ITEM 608.020102, HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS, BICYCLE PATHS AND VEGETATION CONTROL STRIPS.
 - 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.



TYPICAL ROADWAY RECONSTRUCTION SECTION

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				TYPICAL SECTIONS (2 OF 3)	DRAWING NO. TS-2
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 24 OF 61
	COUNTY: ESSEX	REGION: 1				

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.



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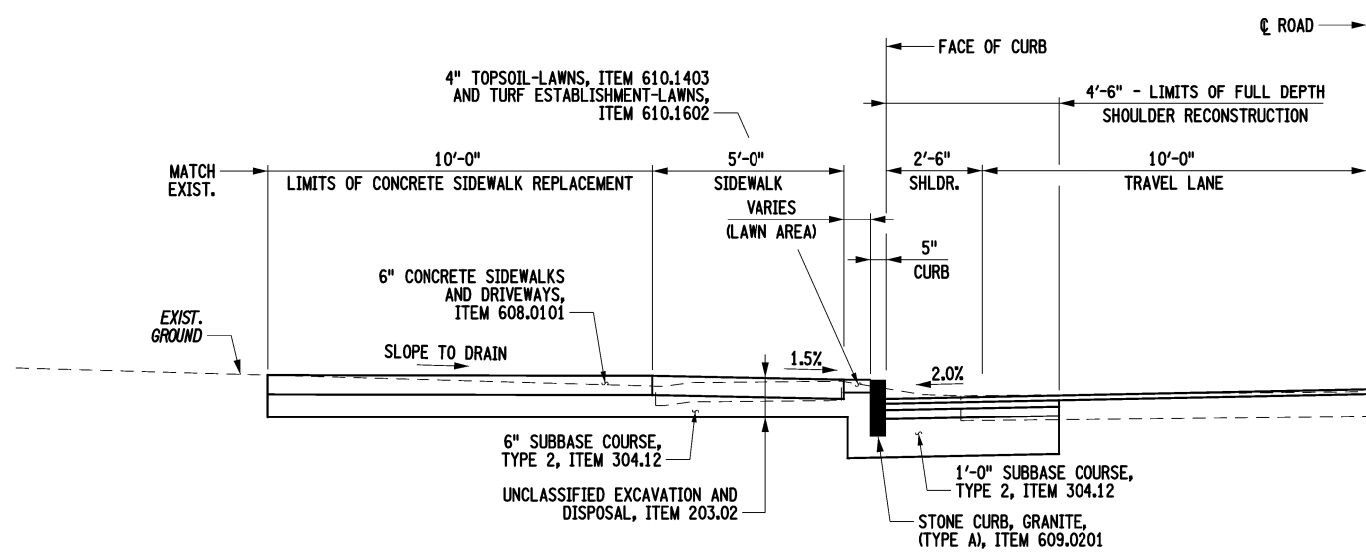
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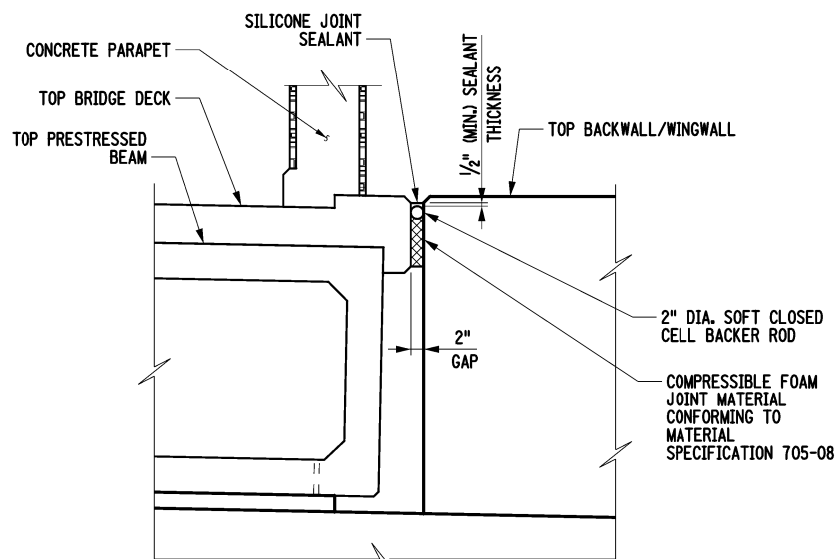
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DESIGN SUPERVISOR MTS

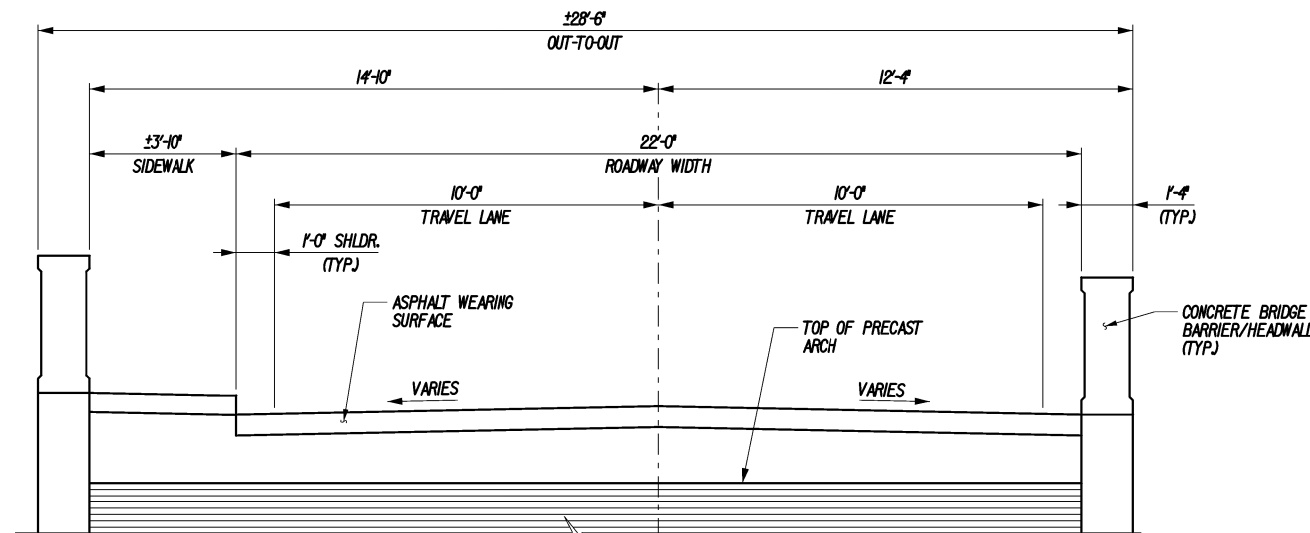


PRIVITE SIDEWALK REPLACEMENT HALF-SECTION
@ STA. 10+83.50 LT.

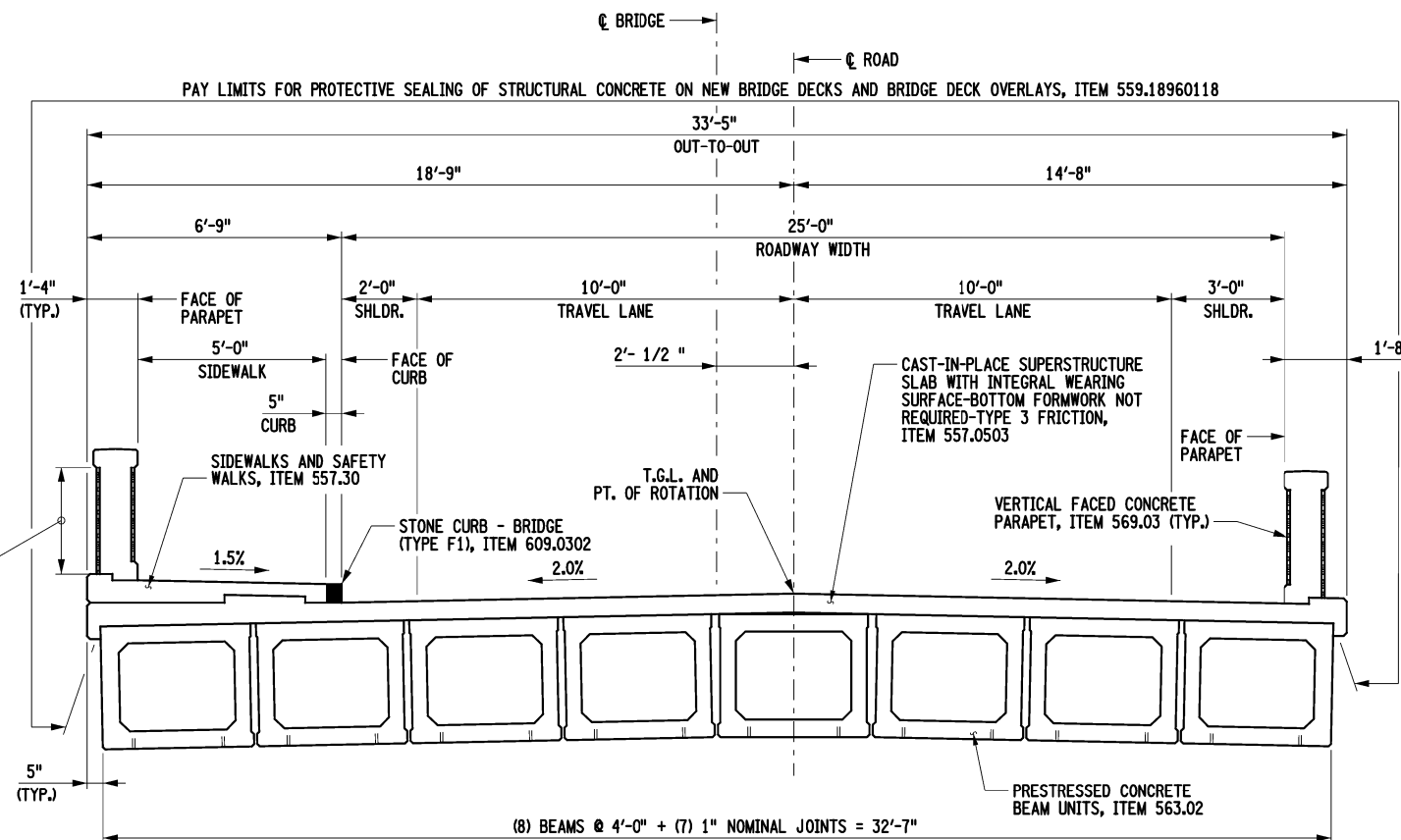


TYPICAL JOINT BETWEEN DECK FASCIA AND BACKWALL/WINGWALL DETAIL
NOT TO SCALE

LIMITS OF STAINING CONCRETE SURFACES, ITEM 555.01940007, ARCHITECTURAL TREATMENT - VERTICAL CONCRETE SURFACES, ITEM 555.72940001 AND ITEM 559.90010011, ANTI-GRAFFITI PROTECTION COATING (TYP.)



EXISTING BRIDGE SECTION



TYPICAL BRIDGE REPLACEMENT SECTION

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

COUNTY ROUTE 10A

TOWN: ELIZABETHTOWN

COUNTY: ESSEX

PIN 1760.51
UTILITY QUALITY LEVEL C

BRIDGES
3301700

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

TYPICAL SECTIONS
(3 OF 3)
WATER STREET
OVER
THE BRANCH

CONTRACT NUMBER
D035818

DRAWING NO. TS-3
SHEET NO. 25 OF 61

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.



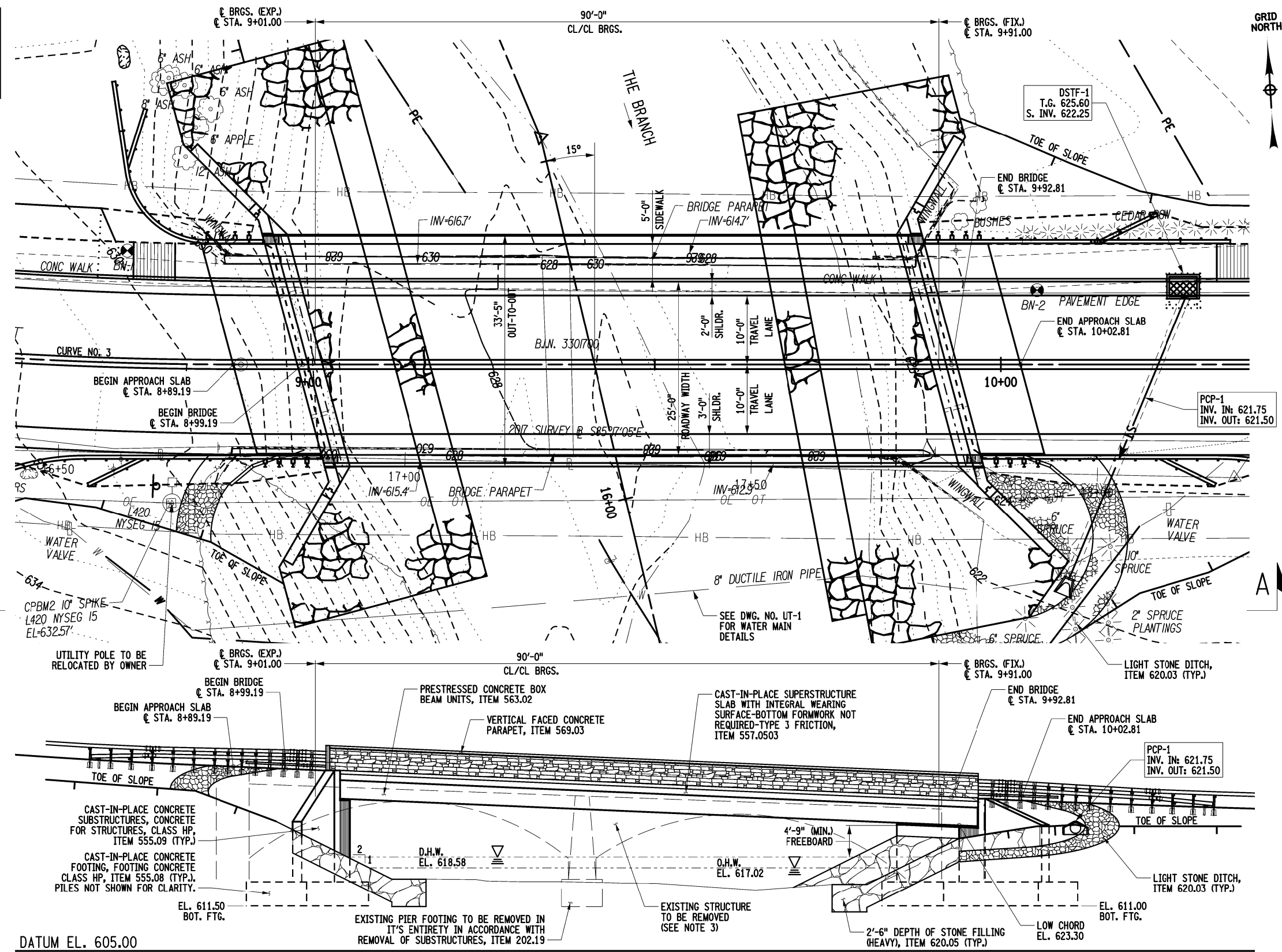
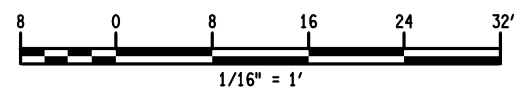
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USER = gneddo

- NOTES:**
- CONTOUR LINES SHOWN ARE EXISTING.
 - 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.
 - THE COST OF REMOVAL OF THE EXISTING CONCRETE SPANDREL WALL AND CONCRETE ARCHES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 206.01, STRUCTURE EXCAVATION. THE EXISTING CONCRETE FOOTINGS AND WINGWALLS SHALL BE REMOVED IN ACCORDANCE WITH ITEM 202.19, REMOVAL OF SUBSTRUCTURES.

CURVE 3	
P.C. =	7+44.64
P.T. =	8+90.31
R =	600.00 FT.
L =	145.67 FT.
$\Delta =$	13°54'37.04"

HYDRAULIC DATA			
DRAINAGE AREA	19.3 SQ. MILES	BASIC FLOOD	DESIGN FLOOD
RECURRENCE INTERVAL (YEARS)	100	100	50
PEAK DISCHARGE (FT. ³ /S)	2328	2328	50
HIGH WATER ELEVATION AT POINT OF MAX. BACKWATER	EXISTING	619.02	618.64
	PROPOSED	618.88	618.58
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD	10.1 FT./SEC.		
SCOUR ANALYSIS:			
	MINIMUM CHANNEL EL.	613.30 FT.	
	Q100 SCOUR DEPTH (FT)	Q100 SCOUR ELEV. (FT)	Q500 SCOUR DEPTH (FT)
	Q100 SCOUR ELEV. (FT)	Q500 SCOUR ELEV. (FT)	Q500 SCOUR ELEV. (FT)
BEGIN ABUTMENT	5.74	607.56	6.52
END ABUTMENT	6.65	606.65	7.53
SCOUR DEPTH IS MEASURED FROM MINIMUM CHANNEL ELEVATION			

LOAD RATING (LRFR)	
INVENTORY	HL-93
OPERATING	HL-93



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY ROUTE 10A
TOWN: ELIZABETHTOWN
COUNTY: ESSEX

PIN 1760.51
UTILITY QUALITY LEVEL C
BRIDGES 3301700
CULVERTS
REGION 1

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
GENERAL PLAN AND ELEVATION
WATER STREET OVER THE BRANCH

CONTRACT NUMBER D035818
DRAWING NO. ST-1
SHEET NO. 26 OF 61

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.



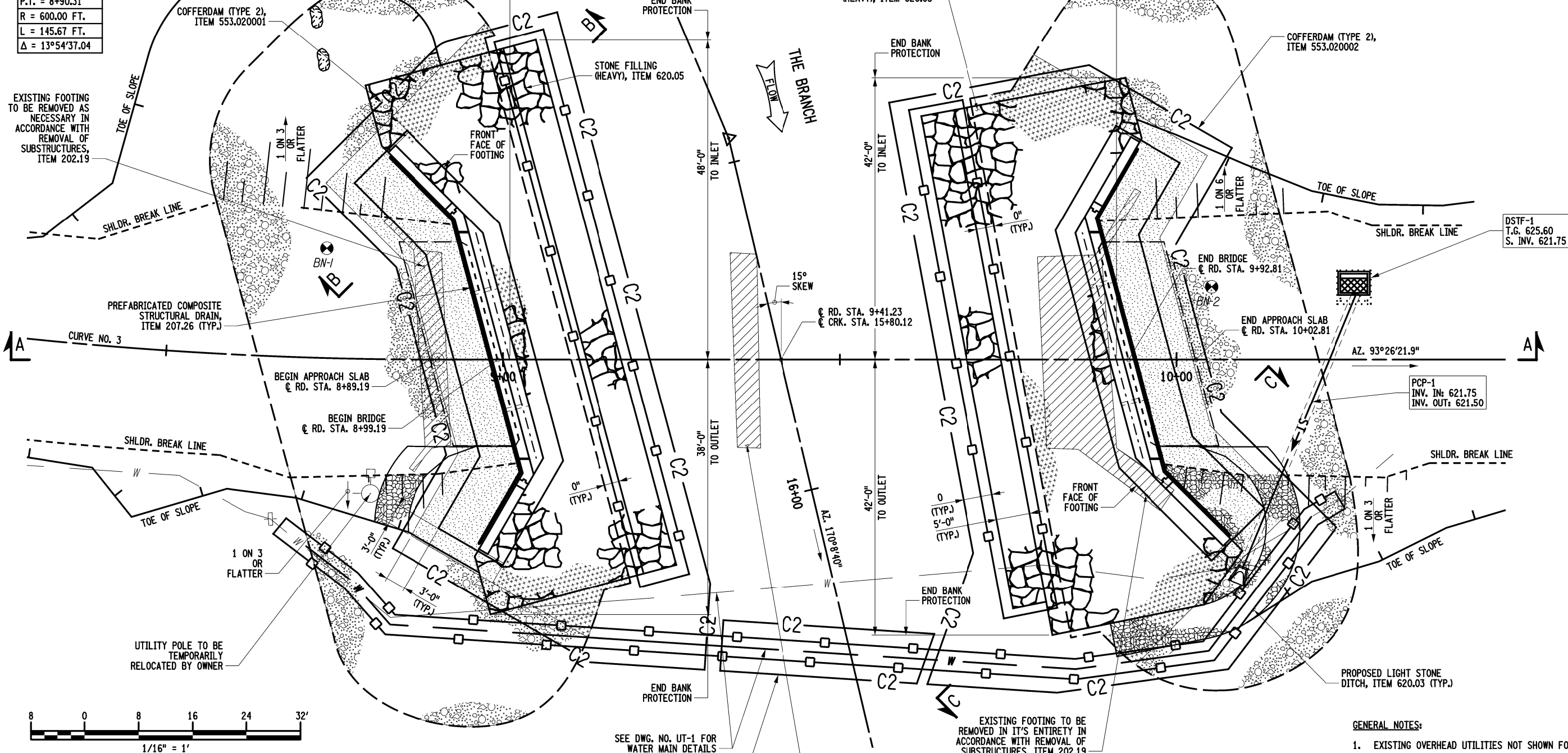
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USER = gneaddo

PROJECT MANAGER GWN
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DRAFTING JAT
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DESIGN JAT
JOB MANAGER GWN
DESIGN SUPERVISOR MTS

GRID NORTH



CURVE 3
P.C. = 7+44.64
P.T. = 8+90.31
R = 600.00 FT.
L = 145.67 FT.
Δ = 13°54'37.04



- GENERAL NOTES:**
- EXISTING OVERHEAD UTILITIES NOT SHOWN FOR CLARITY.
 - SEE DWG. NO. ST-3 FOR EARTHWORK LEGEND.
 - 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.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C			EXCAVATION AND EMBANKMENT PLAN	DRAWING NO. ST-2
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 27 OF 61
	COUNTY: ESSEX	REGION: 1				

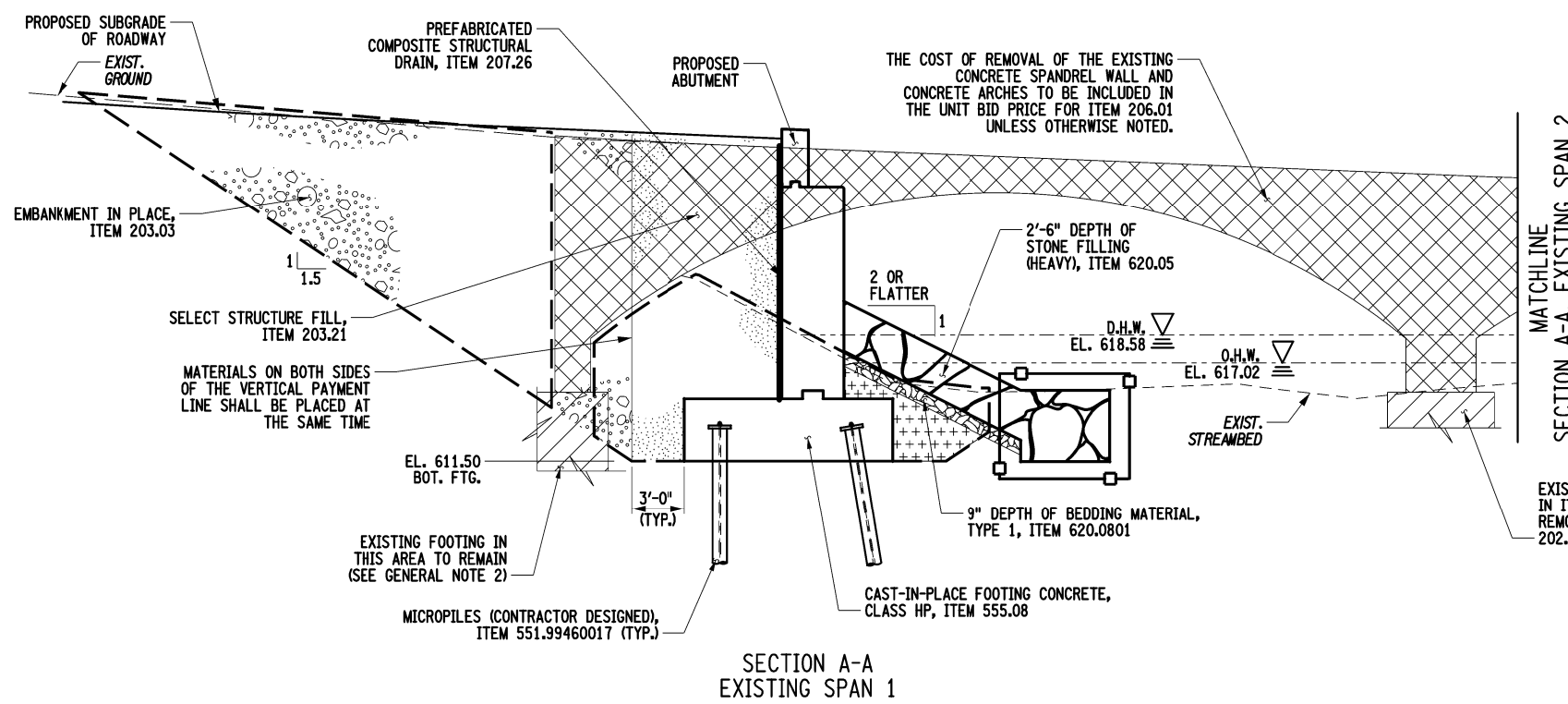
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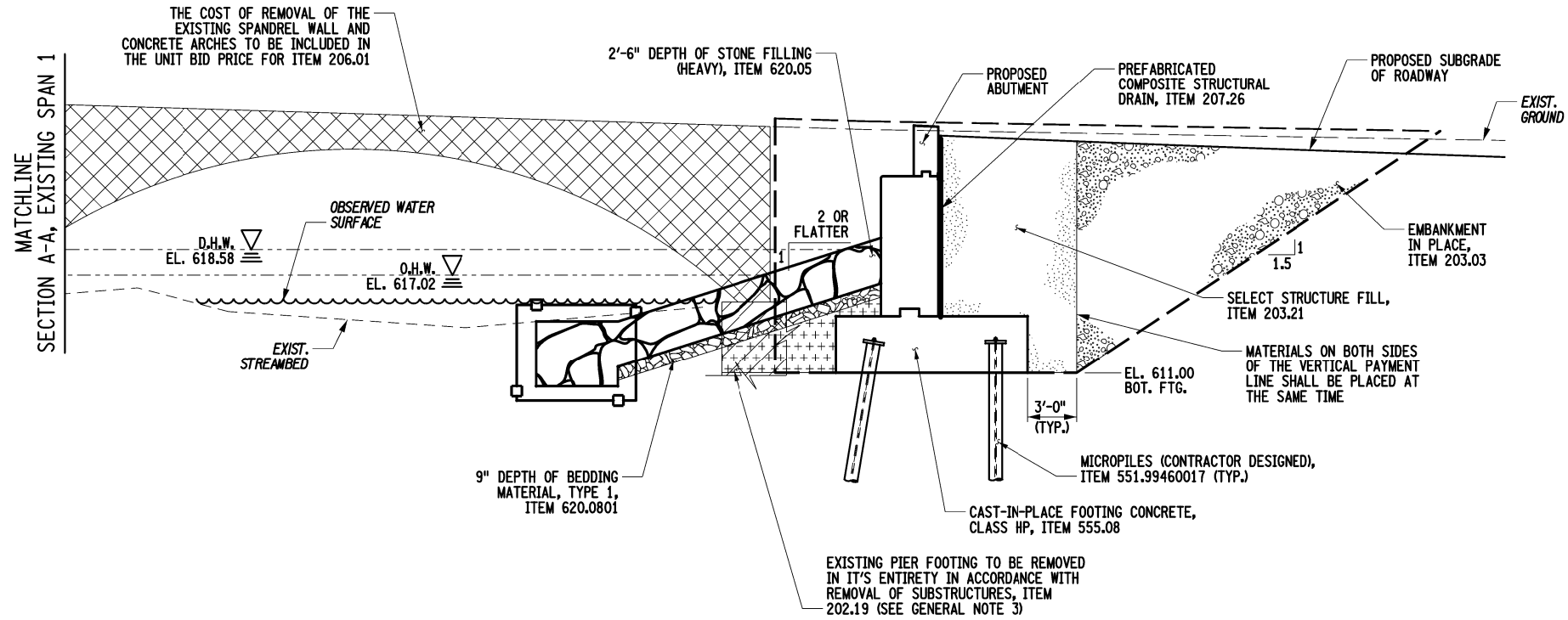
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DESIGN SUPERVISOR MTS

PROJECT MANAGER GVN
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 JOB MANAGER GVN
 DESIGN SUPERVISOR MTS



SECTION A-A
 EXISTING SPAN 1



SECTION A-A
 EXISTING SPAN 2

GENERAL NOTES:

1. SEE DWG. NO. ST-5 FOR SUBSURFACE EXPLORATIONS.
2. EXISTING SUBSTRUCTURE SHALL BE REMOVED TO THE LOWER LIMIT OF THE EXCAVATION AREA. ACTUAL EXISTING SUBSTRUCTURE DIMENSIONS ARE UNKNOWN.
3. THE CONTRACTOR SHALL BACKFILL THE EXCAVATED AREA WITH NATIVE STREAM BED MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 202.19.
4. 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.

COFFERDAM NOTES:

1. 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.
2. 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.
3. SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE ENGINEER SHALL CONTACT THE DESIGN ENGINEER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.
4. DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE E.I.C. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.
5. ORDINARY HIGH WATER IS ESTIMATED TO BE 617.02 FT. 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.

EARTHWORK LEGEND

- SELECT STRUCTURE FILL, ITEM 203.21 (COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY)
- EMBANKMENT IN PLACE, COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY, ITEM 203.03
- BEDDING MATERIAL, TYPE 1, ITEM 620.0801
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION, ITEM 206.01
- STONE FILLING (HEAVY), ITEM 620.05
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- STRUCTURE EXCAVATION, ITEM 206.01
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH AND CULVERT EXCAVATION (ITEM 206.0201)
- C2 COFFERDAM (TYPE 2), ITEM 553.0200nn

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				EXCAVATION AND EMBANKMENT SECTIONS (1 OF 2)	DRAWING NO. ST-3
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 28 OF 61
	COUNTY: ESSEX	REGION: 1				

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.



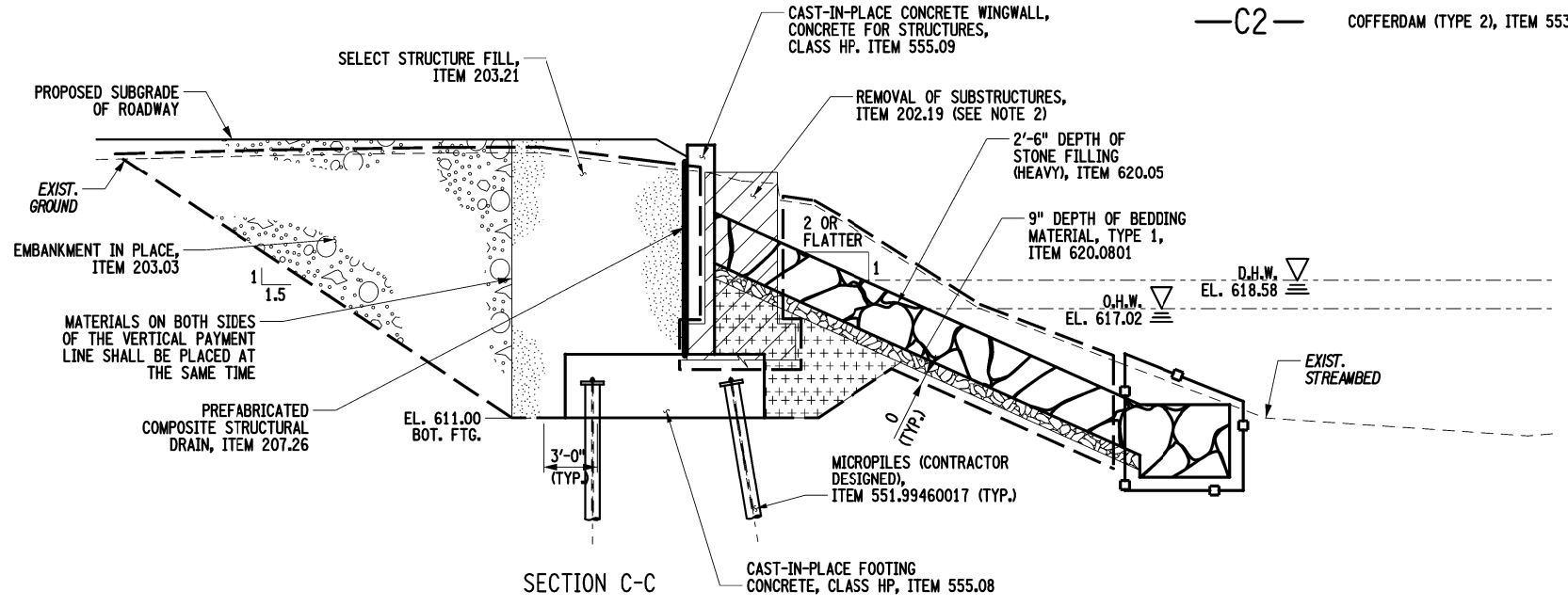
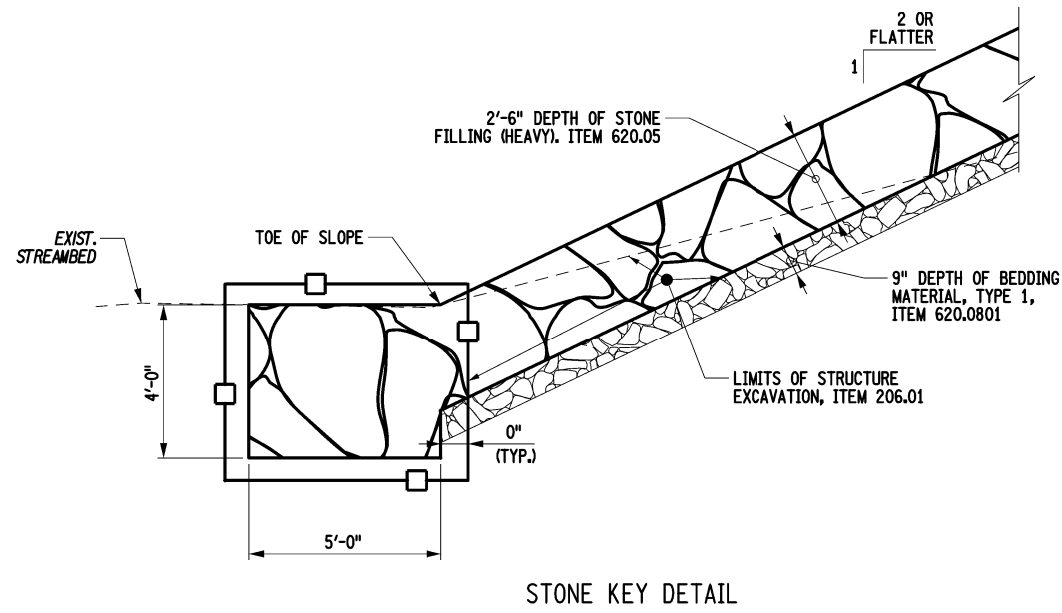
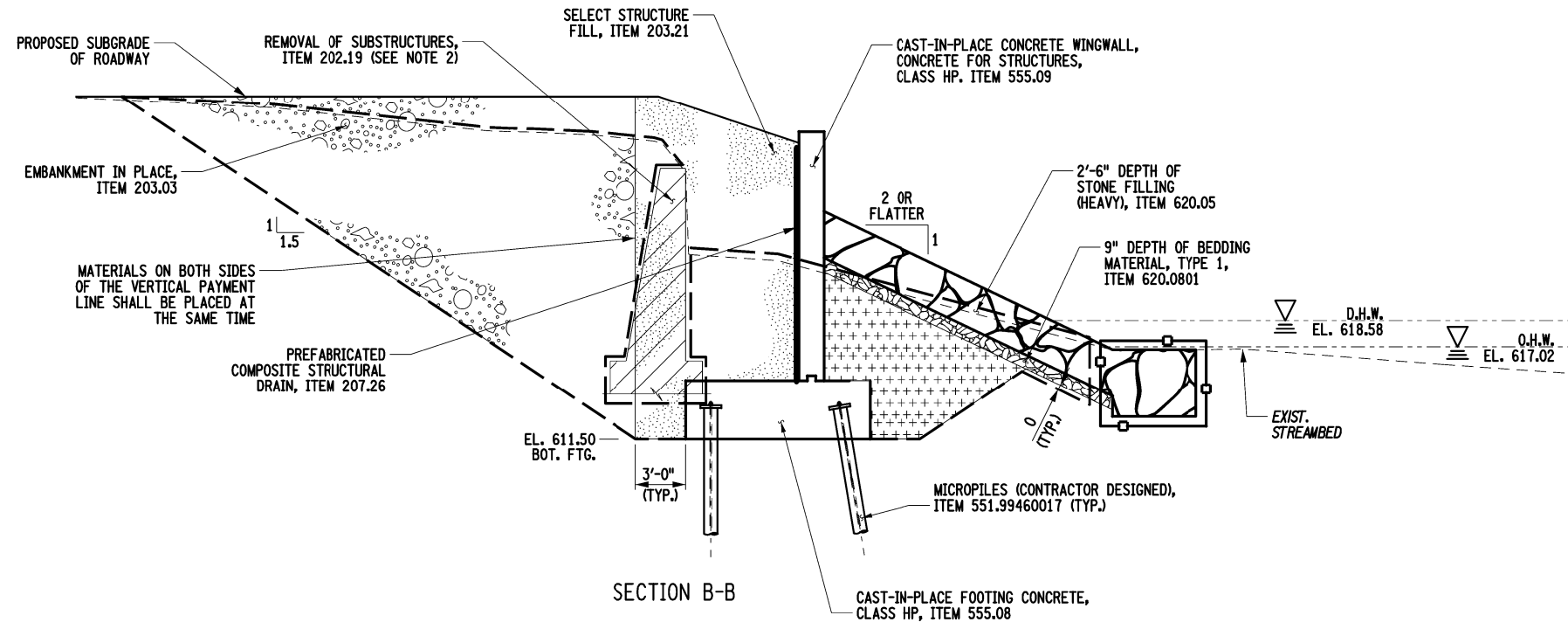
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 USER = gneaddo

PROJECT MANAGER GVN
 CHECK GVN
 DRAFTING JAT
 CHECK GVN
 DESIGN JAT
 JOB MANAGER GVN
 DESIGN SUPERVISOR MTS

- NOTES:**
- SEE DWG. NO. ST-5 FOR SUBSURFACE EXPLORATIONS.
 - EXISTING SUBSTRUCTURE SHALL BE REMOVED TO THE LOWER LIMIT OF THE EXCAVATION AREA. ACTUAL EXISTING SUBSTRUCTURE DIMENSIONS ARE UNKNOWN.
 - 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.

EARTHWORK LEGEND

	SELECT STRUCTURE FILL, ITEM 203.21 (COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY)
	EMBANKMENT IN PLACE, COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY, ITEM 203.03
	BEDDING MATERIAL, TYPE 1, ITEM 620.0801
	BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION, ITEM 206.01
	STONE FILLING (HEAVY), ITEM 620.05
	REMOVAL OF SUBSTRUCTURES, ITEM 202.19
	PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
	AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
	AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH AND CULVERT EXCAVATION, ITEM 206.0201
	C2 COFFERDAM (TYPE 2), ITEM 553.0200nn



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C				EXCAVATION AND EMBANKMENT SECTIONS (2 OF 2) WATER STREET OVER THE BRANCH
	TOWN: ELIZABETHTOWN					
	COUNTY: ESSEX	REGION: 1				
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.						



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 USER = gneaddo

DENTE GROUP, A TERRACON COMPANY		SUBSURFACE LOG: B-1	
PROJECT: Water Street Bridge Replacement	DATE	START: 4/23/18	FINISH: 4/23/18
LOCATION: Elizabethtown, New York	METHODS: 3 1/4" Hollow Stem Augers, ASTM		
CLIENT: Clark Patterson Lee	D1586 Drilling Methods with Auto Hammer		
JOB NUMBER: JB185025	SURFACE ELEVATION: +/- 630.0'		
DRILL TYPE: CME 55	CLASSIFICATION: O.Burns		


DEPTH	SAMPLE #	BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
		6"	12"	18"	24"	N	
	1	3	4				No Topsoil FILL: Brown F-C SAND, trace silt and gravel (MOIST)
	2	5	2				Similar with roots noted (MOIST, LOOSE)
5'	3	5	8				Brown F-C SAND and GRAVEL, trace silt, rootlets noted (MOIST, FIRM)
				12	10	20	
10'	4	6	8				Brown F-C SAND, Some Gravel, trace silt (MOIST, FIRM)
				7	14	15	
15'	5	30	85				Brown GRAVEL, Some F-C Sand, trace silt (WET, VERY COMPACT)
				52		137	
20'	6	70	50/.1'			50+	TILL: Brown/Gray F-C SAND, Little Silt, trace gravel
25'	7	44	50/.2'			50+	Similar with Sandier Seams (WET, VERY COMPACT)
	8	8	100/.4'			100+	

End of boring 28.4' depth with split spoon refusal. Auger refusal occurred at 28.0' depth. Groundwater measured at 12.8' depth within auger casings after Sample #5 and at 12.5' depth overnight.

DENTE GROUP, A TERRACON COMPANY		SUBSURFACE LOG: B-2	
PROJECT: Water Street Bridge Replacement	DATE	START: 4/24/18	FINISH: 4/24/18
LOCATION: Elizabethtown, New York	METHODS: 3 1/4" Hollow Stem Augers, ASTM		
CLIENT: Clark Patterson Lee	D1586 Drilling Methods with Auto Hammer		
JOB NUMBER: JB185025	SURFACE ELEVATION: +/- 626.0'		
DRILL TYPE: CME 55	CLASSIFICATION: O.Burns		

DEPTH	SAMPLE #	BLOWS ON SAMPLER					CLASSIFICATION / OBSERVATIONS
		6"	12"	18"	24"	N	
	1	6	4				No Topsoil FILL: Black F-C SAND, CINDERS and Fine GRAVEL, trace silt (MOIST, LOOSE TO FIRM)
	2	16	12				Brown F-C SAND and GRAVEL, trace silt (MOIST, FIRM)
5'	3	5	8				Grades Some Silt, cobbles, boulders, and rootlets noted (MOIST, FIRM)
				7		19	
				11	18	19	
10'	4	5	7				Brown F-C SAND, trace silt (SATURATED)
				9	12	16	
15'	5	4	5				Grades Silt Bands, cobbles and boulders noted (SATURATED, FIRM)
				8		13	
20'	6	100	50/.1'			50+	TILL: Brown GRAVEL, Some F-C Sand, Little Silt, cobbles (SATURATED, V. COMPACT)
							Cobbles and Boulders recovered through Core Run 20.2'-25.2' depth.
25'							End of boring 25.2' depth.

PROJECT MANAGER GWN
CHECK GWN
DRAFTING JAT
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DESIGN JAT
JOB MANAGER GWN
DESIGN SUPERVISOR MTS

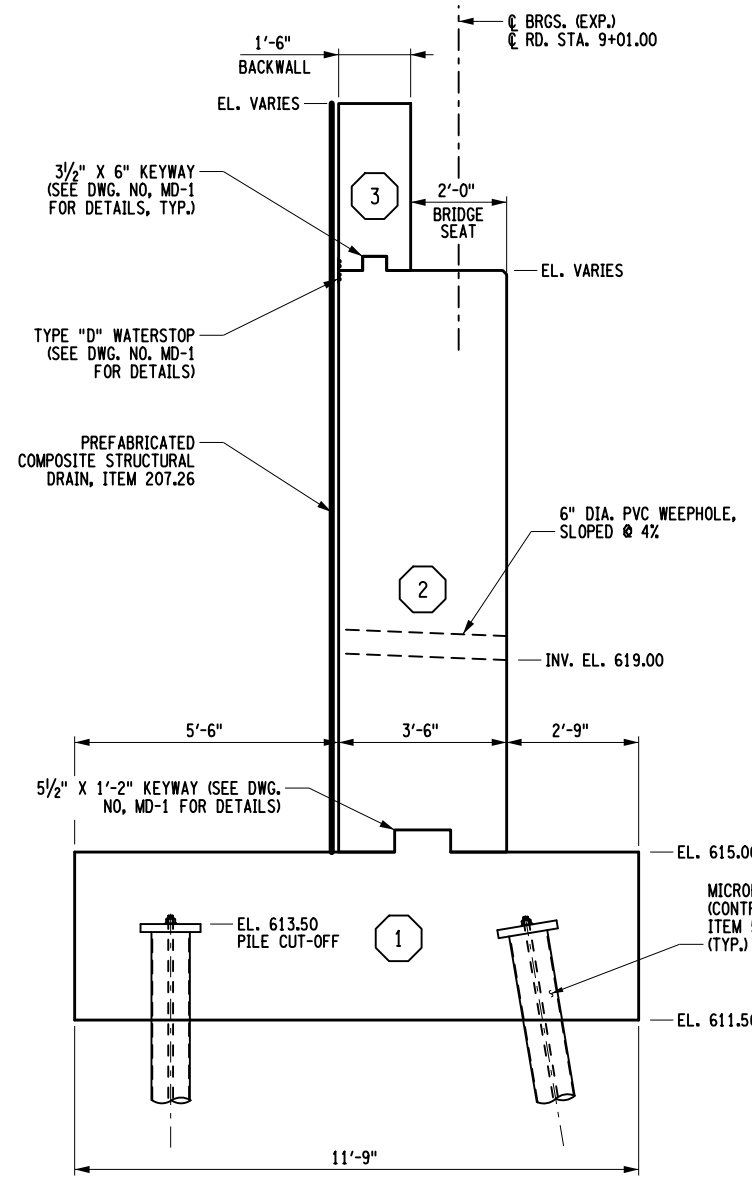
AFFIX SEAL: MATTHEW T. SMULLEN, P.E. ON: APRIL 16, 2021	ALTERED BY: ON:
	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX REGION: 1	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED SOIL BORING LOGS WATER STREET OVER THE BRANCH	CONTRACT NUMBER D035818 DRAWING NO. ST-5 SHEET NO. 30 OF 61
<p>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.</p>						

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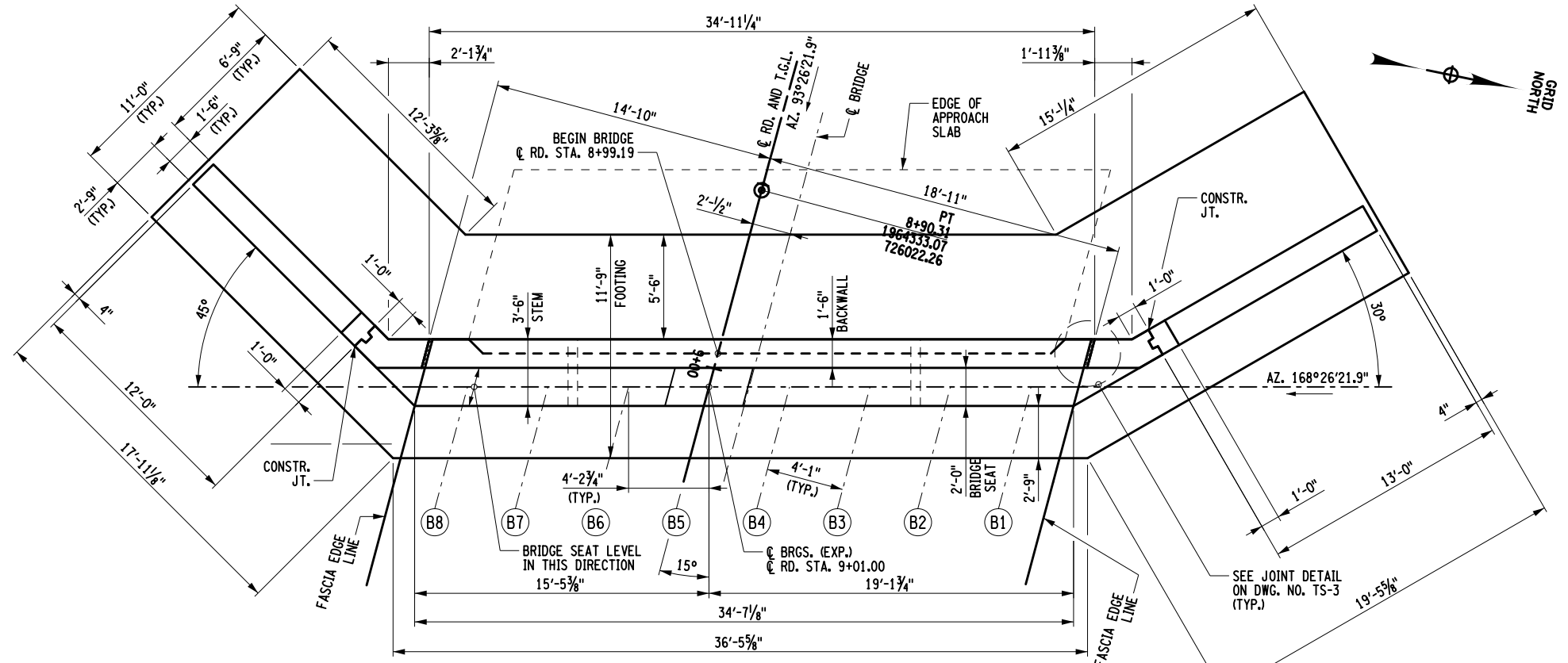
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 DESIGN SUPERVISOR MTS



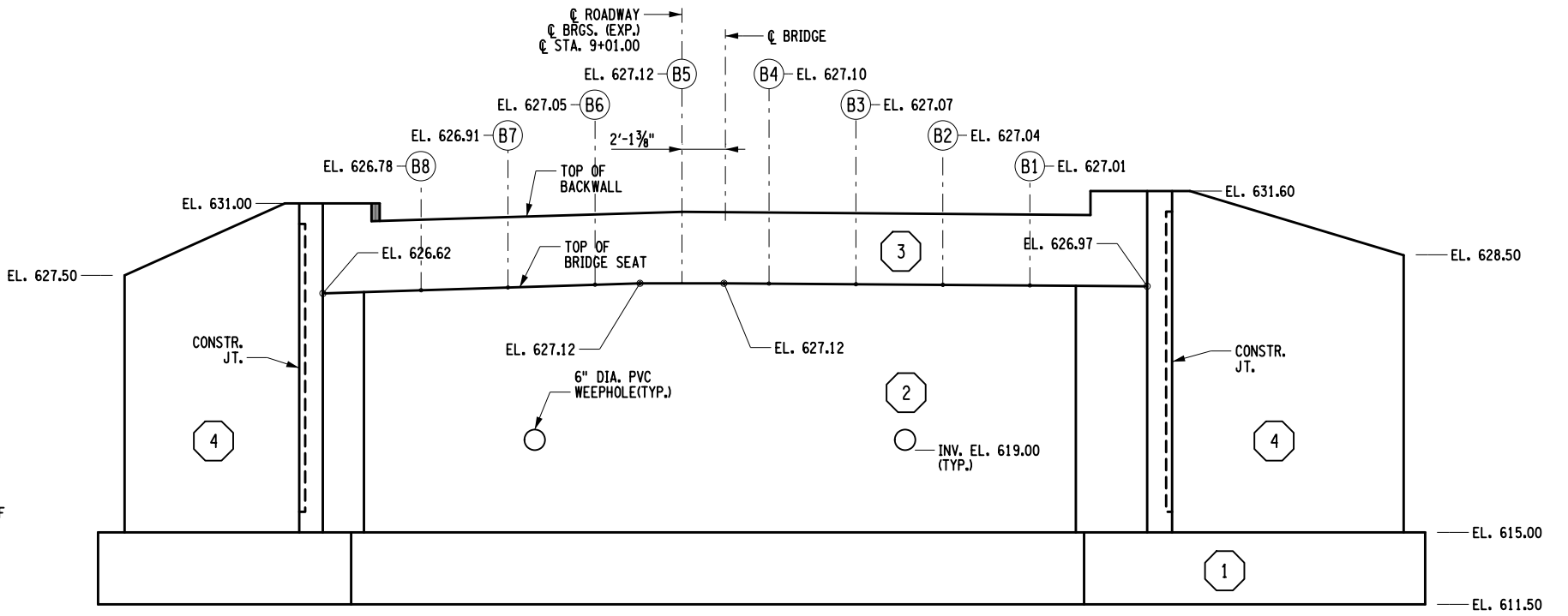
WEST ABUTMENT SECTION
SCALE 1/4" = 1'-0"

CONCRETE TABLE			
PLACEMENT	QUANTITY	UNIT	ITEM NUMBER
1	97.5	CY	555.08
2	60.7	CY	555.09
3	8.4	CY	
4	20.6	CY	

- NOTES:**
- ALL ELEVATIONS ARE SHOWN IN FEET.
 - ALL EXPOSED EDGES OF CONCRETE ARE TO BE CHAMFERED 1" UNLESS OTHERWISE NOTED.
 - ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED ACCORDING TO ITEM 559.16960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE.
 - 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.



WEST ABUTMENT PLAN
SCALE 1/8" = 1'-0"



WEST ABUTMENT ELEVATION
SCALE 1/8" = 1'-0"

NOTE: PILES NOT SHOWN FOR CLARITY.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



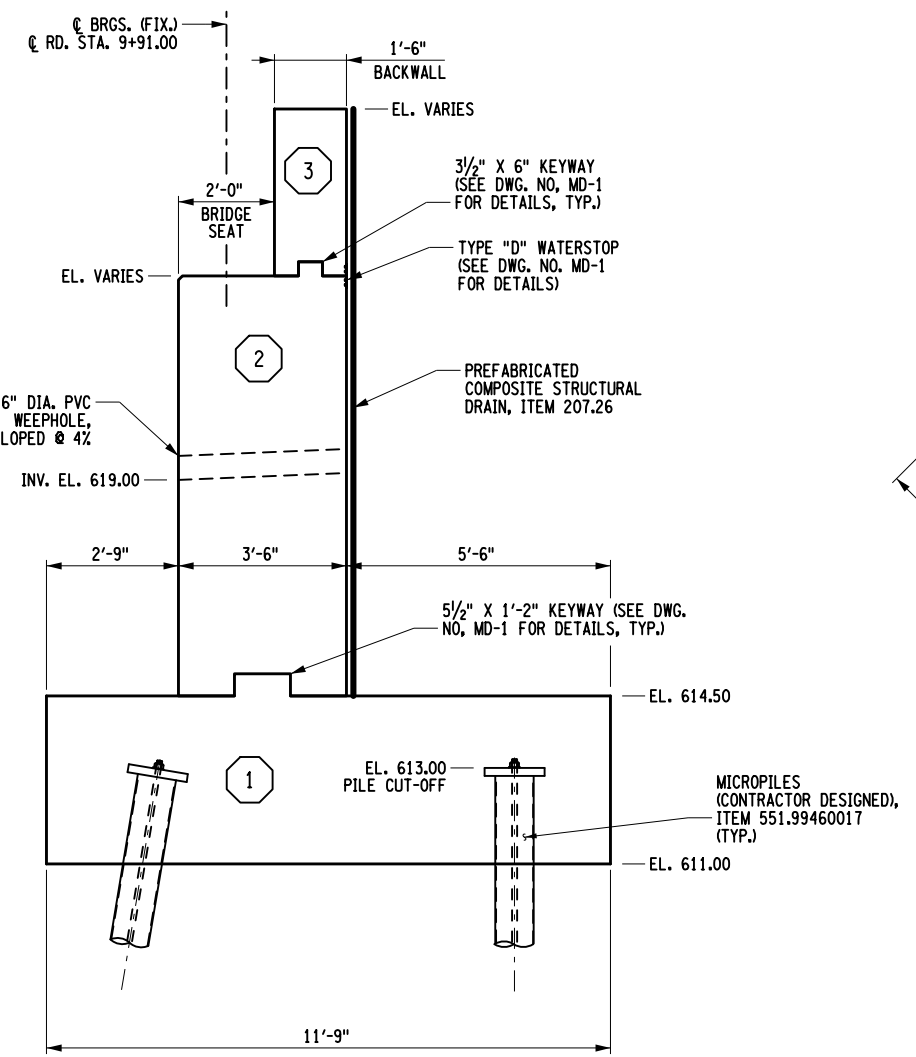
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL 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.



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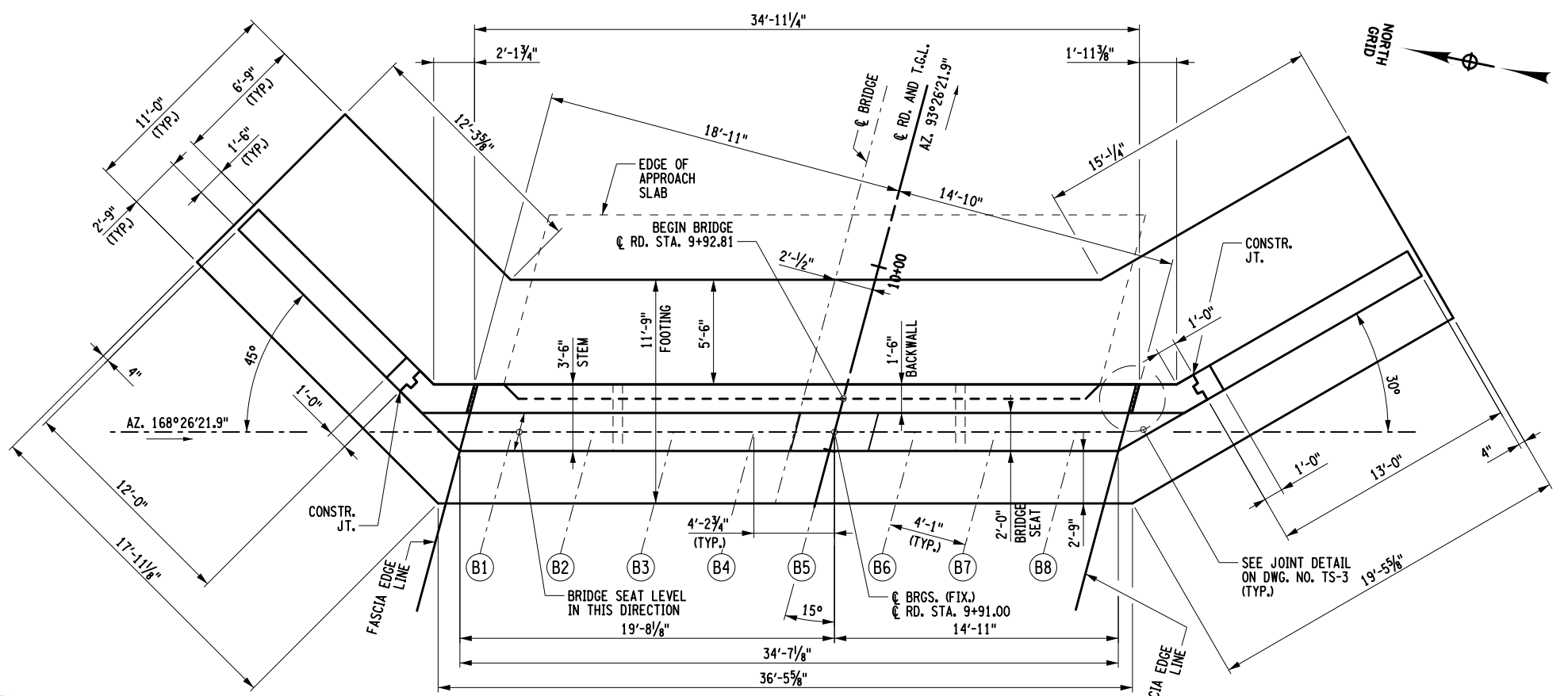
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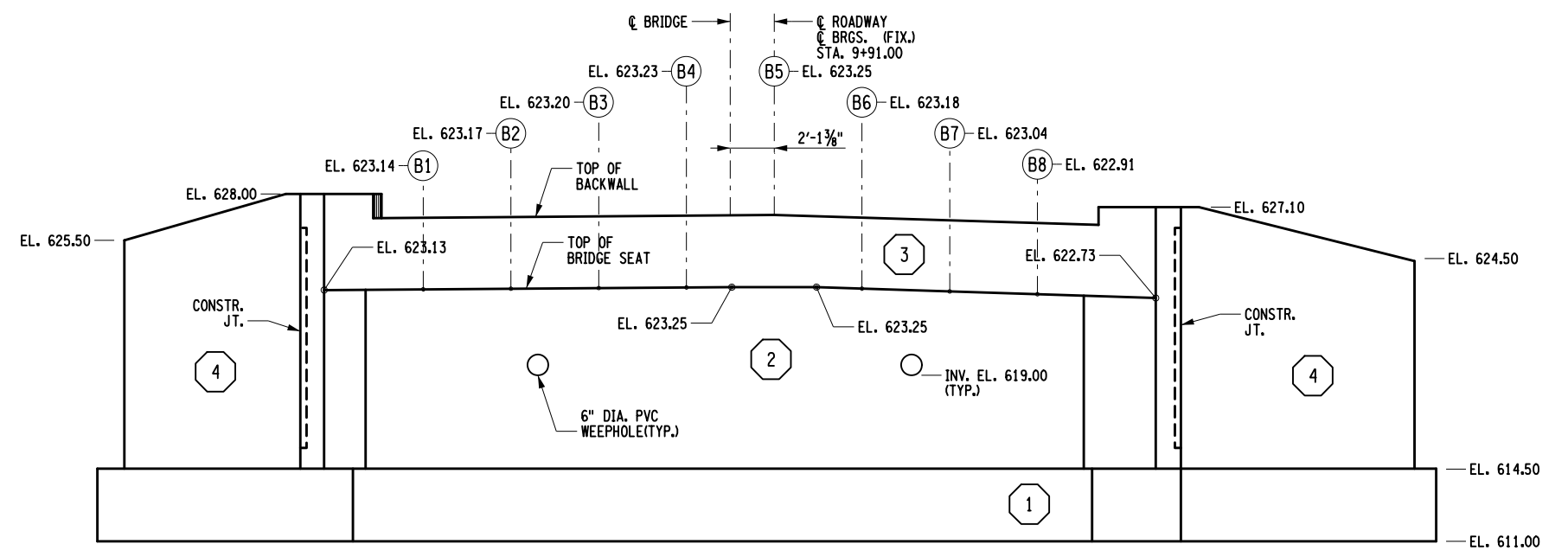
EAST ABUTMENT SECTION
SCALE 1/4" = 1'

CONCRETE TABLE			
PLACEMENT	QUANTITY	UNIT	ITEM NUMBER
1	97.5	CY	555.08
2	43.6	CY	
3	8.4	CY	555.09
4	16.4	CY	

- NOTES:
- ALL ELEVATIONS ARE SHOWN IN FEET.
 - ALL EXPOSED EDGES OF CONCRETE ARE TO BE CHAMFERED 1" UNLESS OTHERWISE NOTED.
 - ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED ACCORDING TO ITEM 559.16960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE.
 - 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.



EAST ABUTMENT PLAN
SCALE 1/8" = 1'



EAST ABUTMENT ELEVATION
SCALE 1/8" = 1'

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



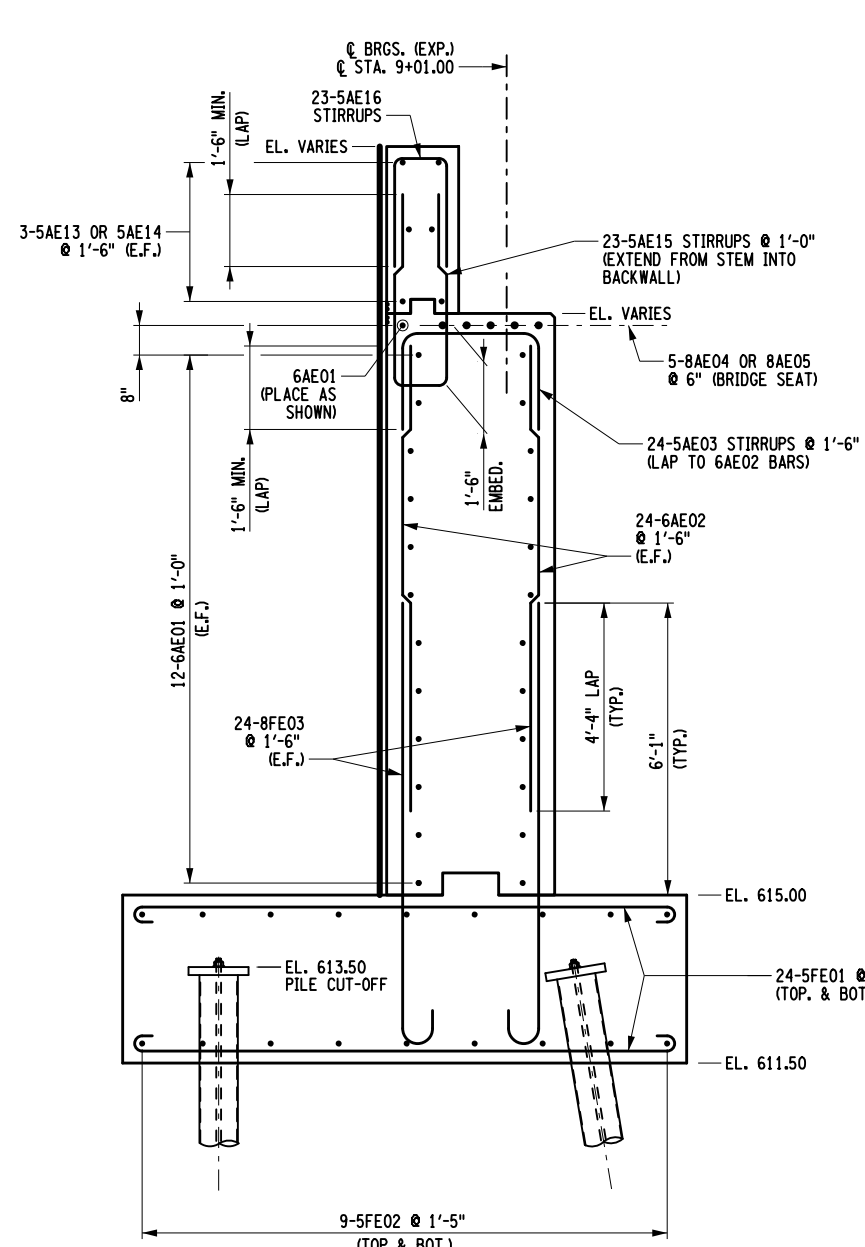
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C				
	TOWN: ELIZABETHTOWN				EAST ABUTMENT PLAN, ELEVATION AND SECTION WATER STREET OVER THE BRANCH	DRAWING NO. ST-7 SHEET NO. 32 OF 61
	COUNTY: ESSEX	REGION: 1				

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.

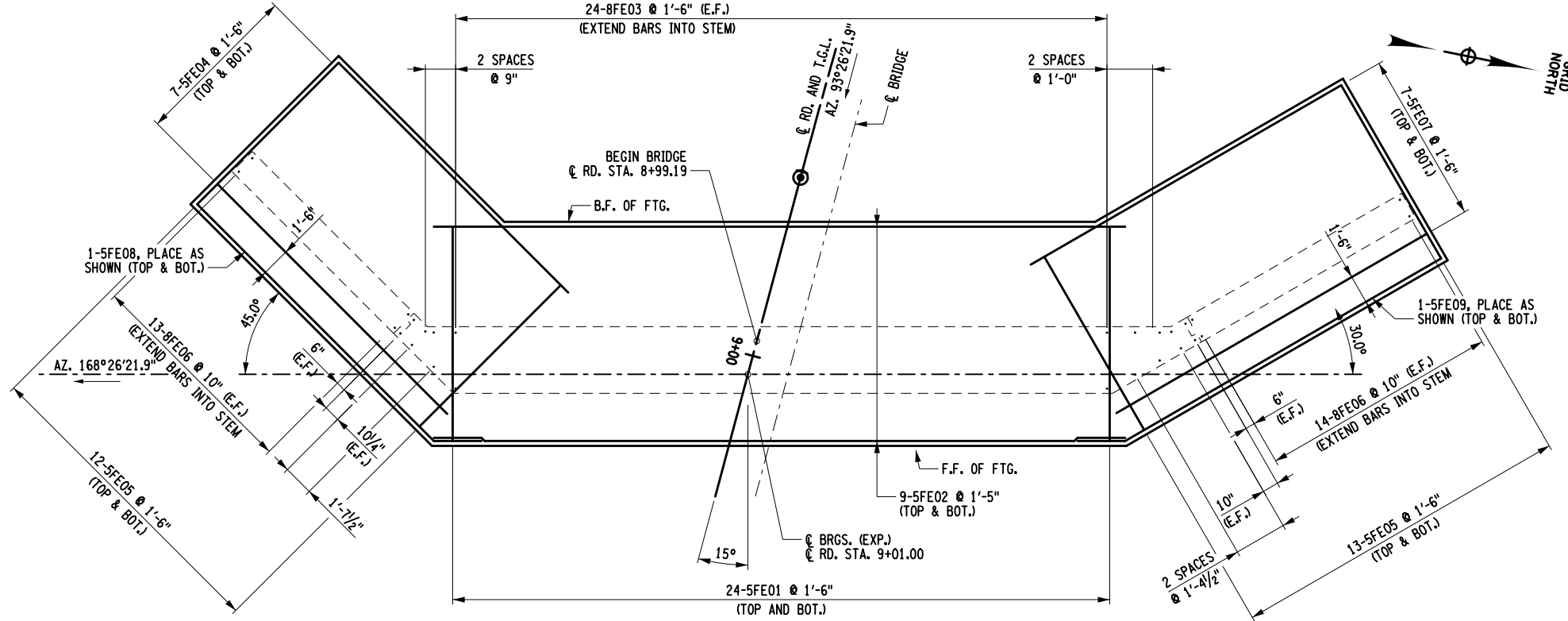
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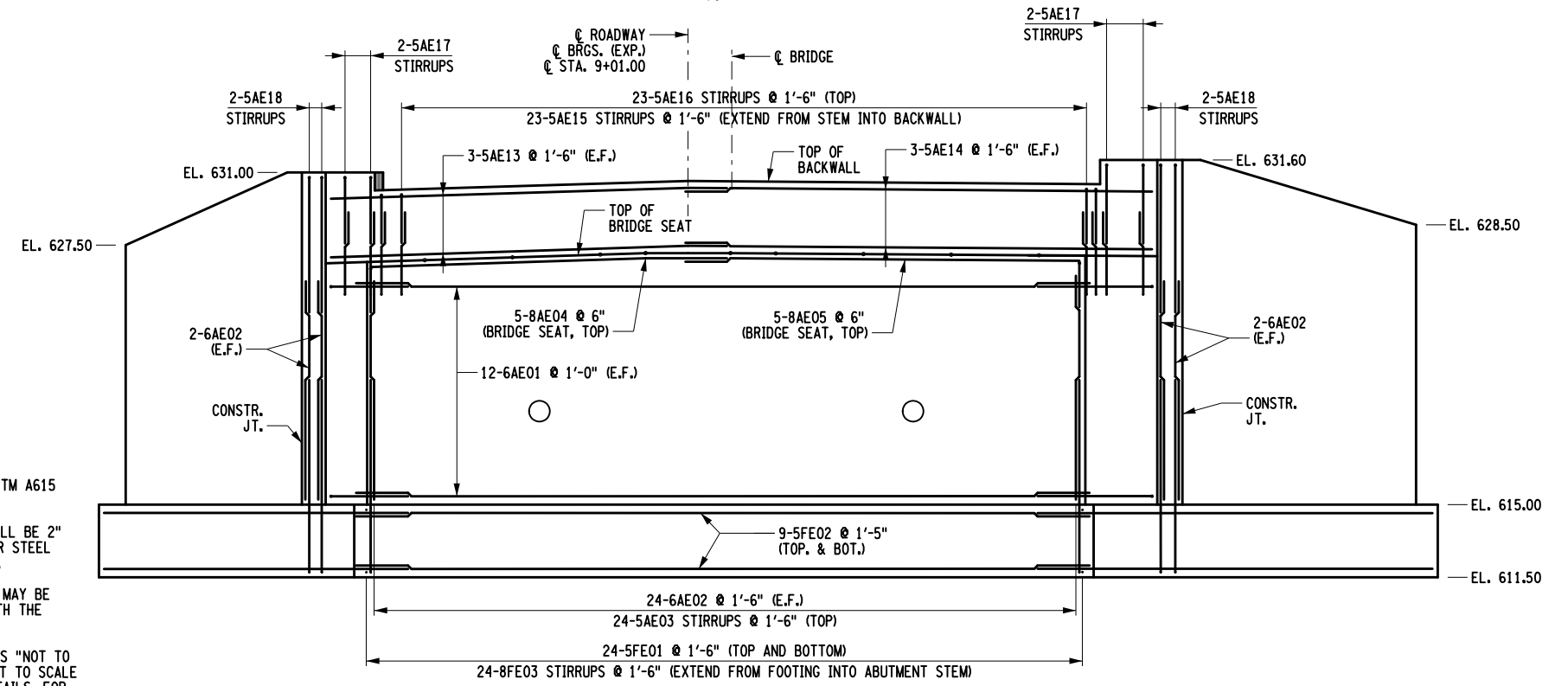
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 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS



WEST ABUTMENT SECTION
SCALE 1/4" = 1'-0"



FOOTING REINFORCING PLAN - POUR NO. 1
SCALE 1/8" = 1'-0"



WEST ABUTMENT ELEVATION
SCALE 1/8" = 1'-0"

- NOTES:**
- B.F. - DENOTES BACK FACE
 - F.F. - DENOTES FRONT FACE
 - E.F. - DENOTES EACH FACE
1. ALL ELEVATIONS ARE SHOWN IN FEET.
 2. ALL BAR REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
 3. COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED. COVER FOR STEEL FOOTING REINFORCEMENT SHALL BE 3".
 4. ALL FOOTING REINFORCEMENT SPACING MAY BE ADJUSTED TO AVOID INTERFERENCE WITH THE PILES.
 5. 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.

NOTE: PILES NOT SHOWN FOR CLARITY.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				WEST ABUTMENT REINFORCING PLAN, ELEVATION AND SECTION WATER STREET OVER THE BRANCH	DRAWING NO. ST-8
	TOWN: ELIZABETHTOWN					SHEET NO. 33 OF 61
	COUNTY: ESSEX	REGION: 1				

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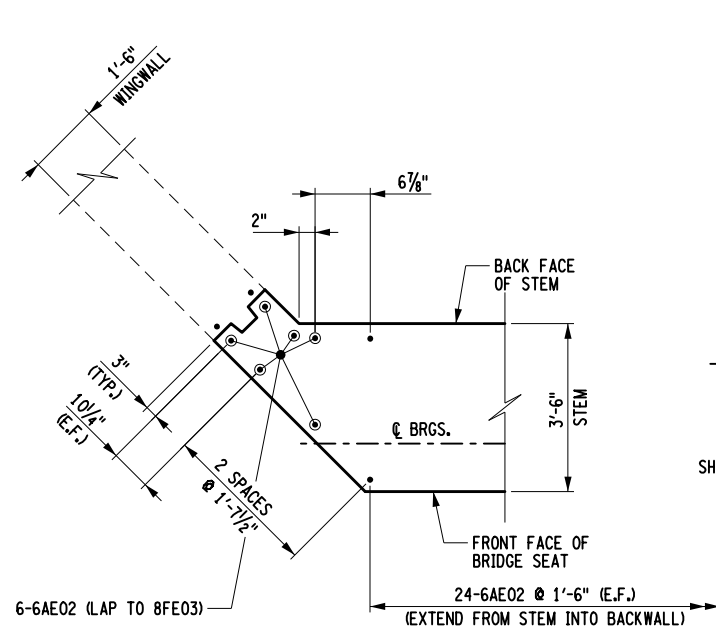
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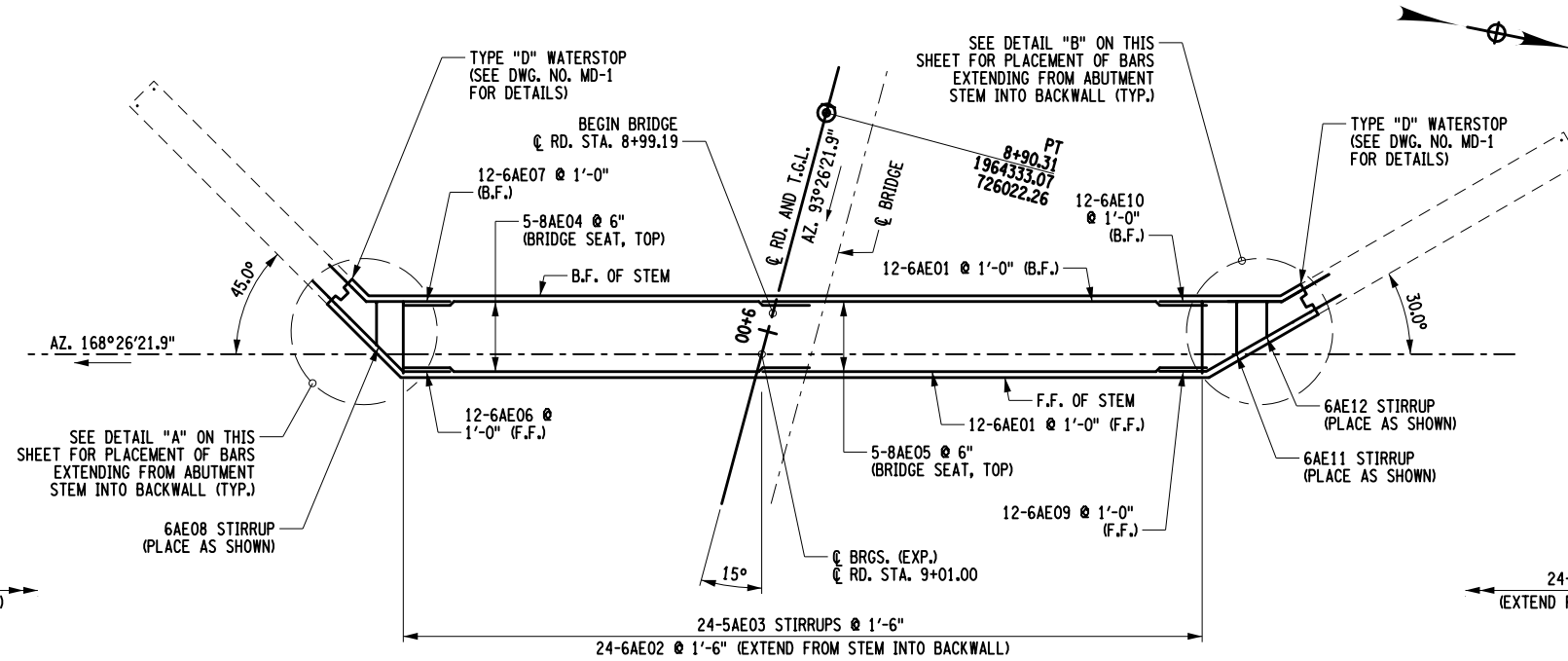
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DESIGN SUPERVISOR MTS

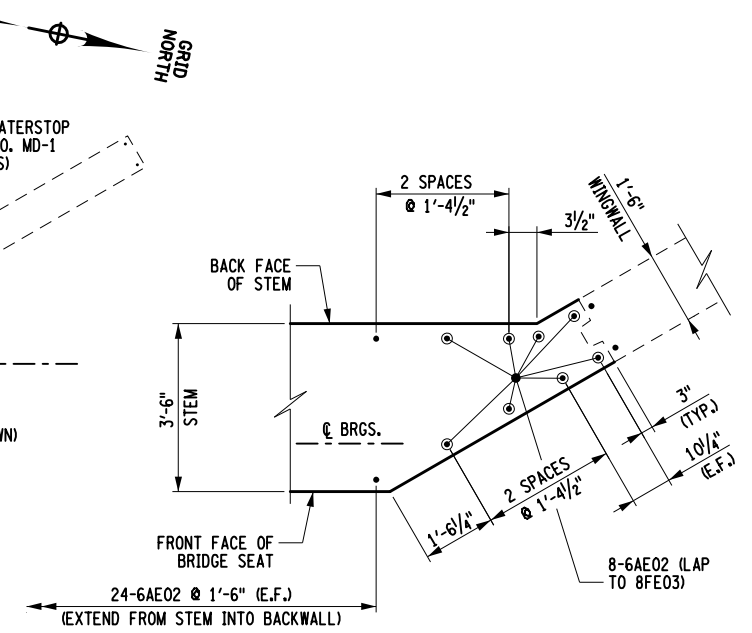


DETAIL "A"
NOT TO SCALE

NOTE: FOOTING AND MAIN REINFORCING NOT SHOWN FOR CLARITY.

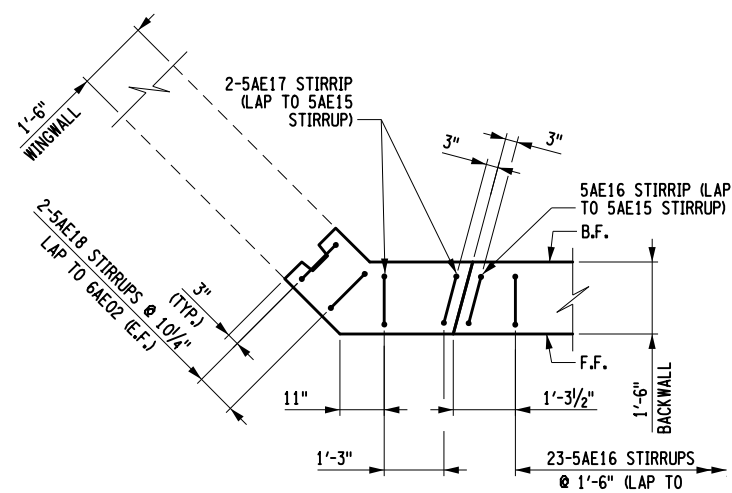


STEM REINFORCING PLAN - POUR NO. 2
SCALE 1/8" = 1'-0"



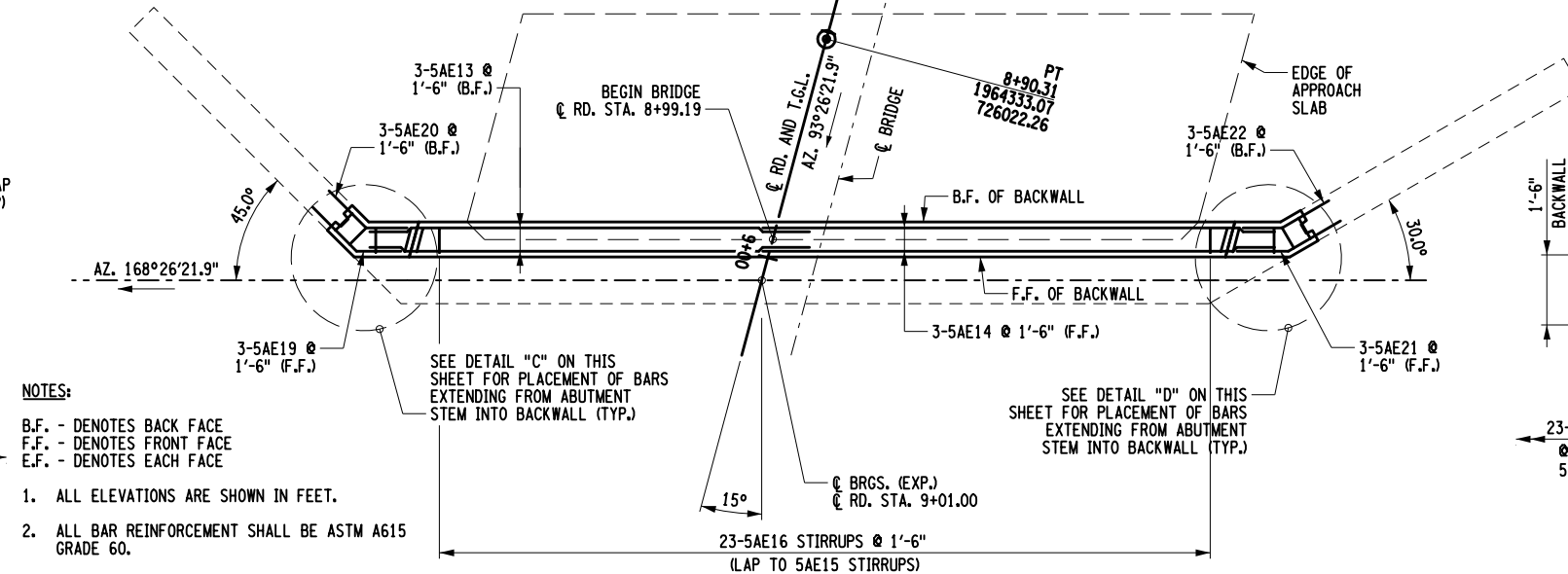
DETAIL "B"
NOT TO SCALE

NOTE: FOOTING AND MAIN REINFORCING NOT SHOWN FOR CLARITY.



DETAIL "C"
NOT TO SCALE

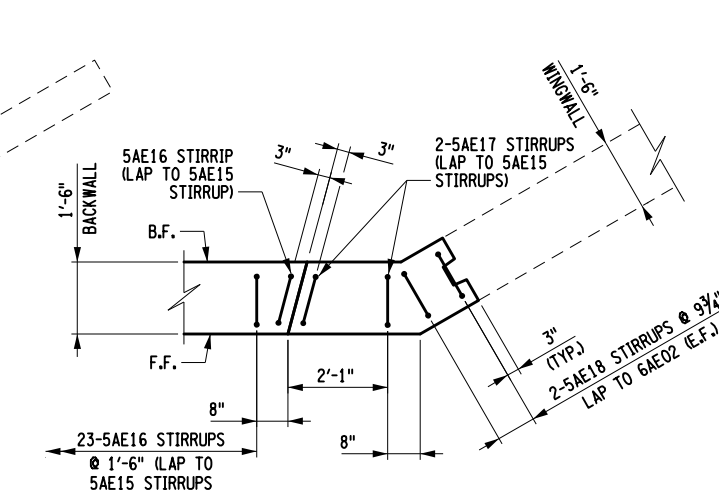
NOTE: FOOTING AND MAIN REINFORCING NOT SHOWN FOR CLARITY.



BACKWALL REINFORCING PLAN - POUR NO. 3
SCALE 1/8" = 1'-0"

NOTES:

- B.F. - DENOTES BACK FACE
- F.F. - DENOTES FRONT FACE
- E.F. - DENOTES EACH FACE
- 1. ALL ELEVATIONS ARE SHOWN IN FEET.
- 2. ALL BAR REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
- 3. COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED. COVER FOR STEEL FOOTING REINFORCEMENT SHALL BE 3".
- 4. 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.



DETAIL "D"
NOT TO SCALE

NOTE: FOOTING AND MAIN REINFORCING NOT SHOWN FOR CLARITY.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

COUNTY ROUTE 10A

TOWN: ELIZABETHTOWN

COUNTY: ESSEX

PIN 1760.51
UTILITY QUALITY LEVEL C

BRIDGES
3301700

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

WEST ABUTMENT REINFORCING
PLANS AND DETAILS
WATER STREET
OVER
THE BRANCH

CONTRACT NUMBER
D035818

DRAWING NO. ST-9
SHEET NO. 34 OF 61

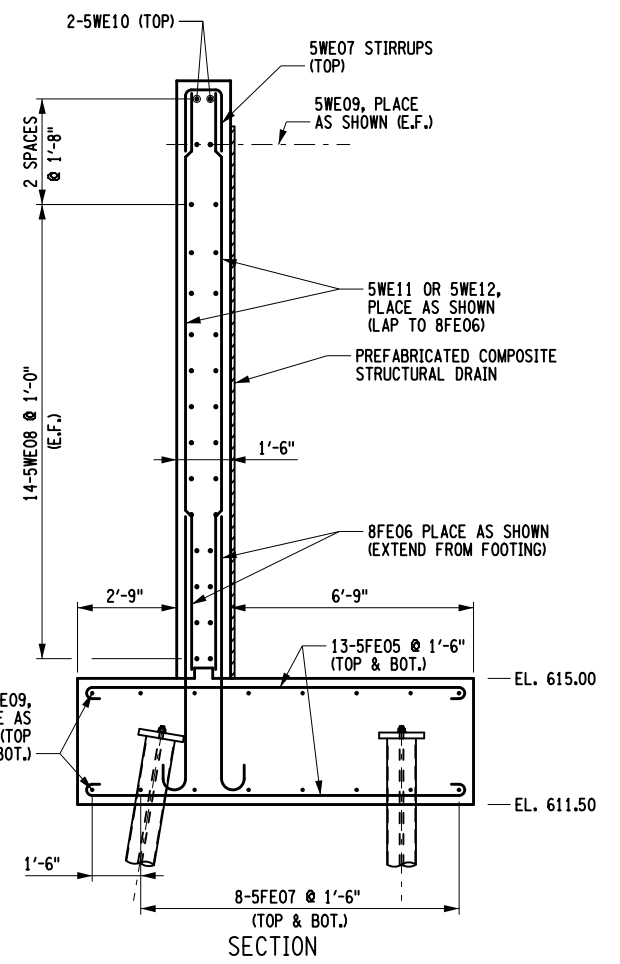
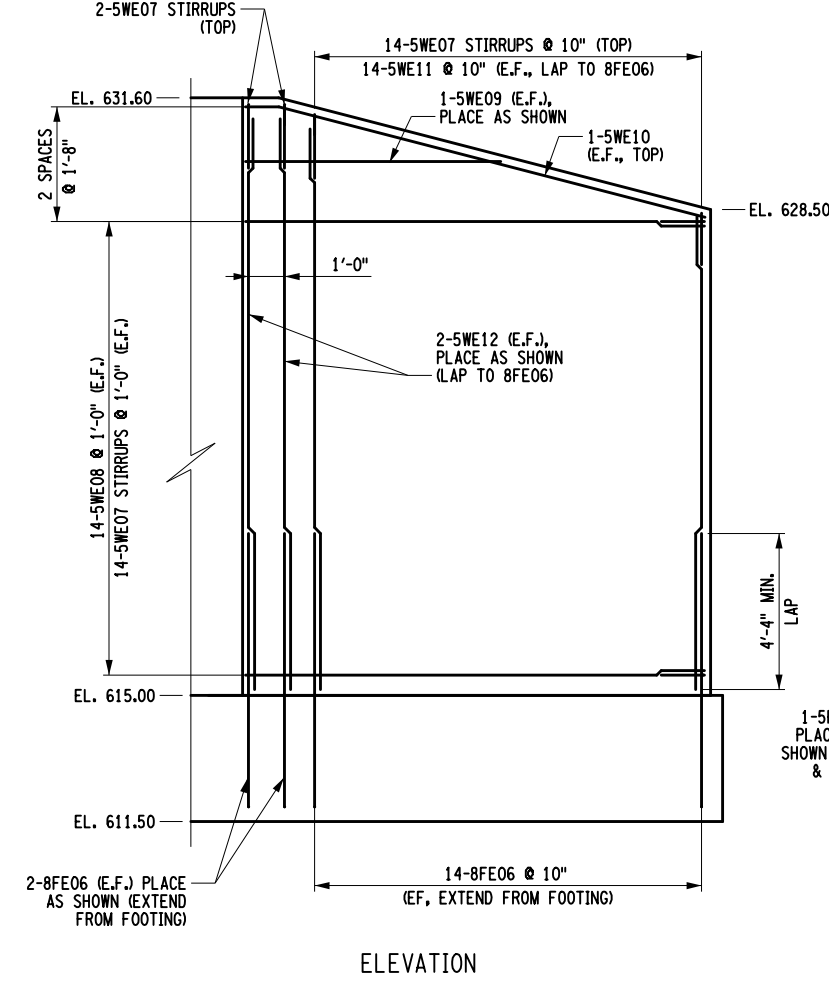
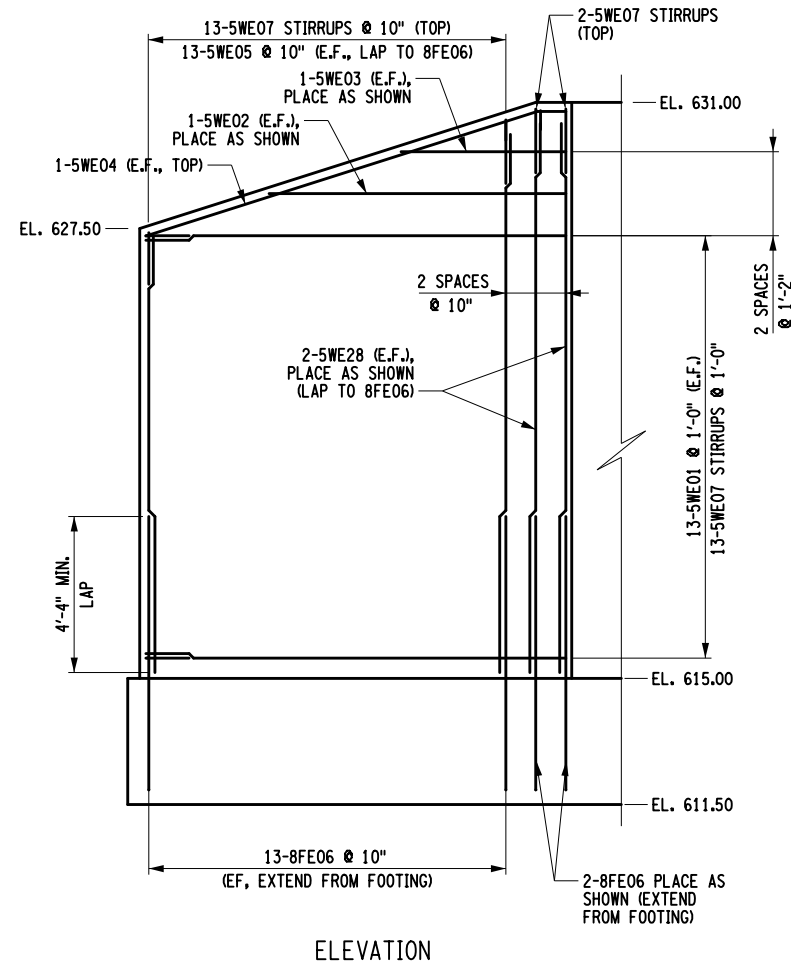
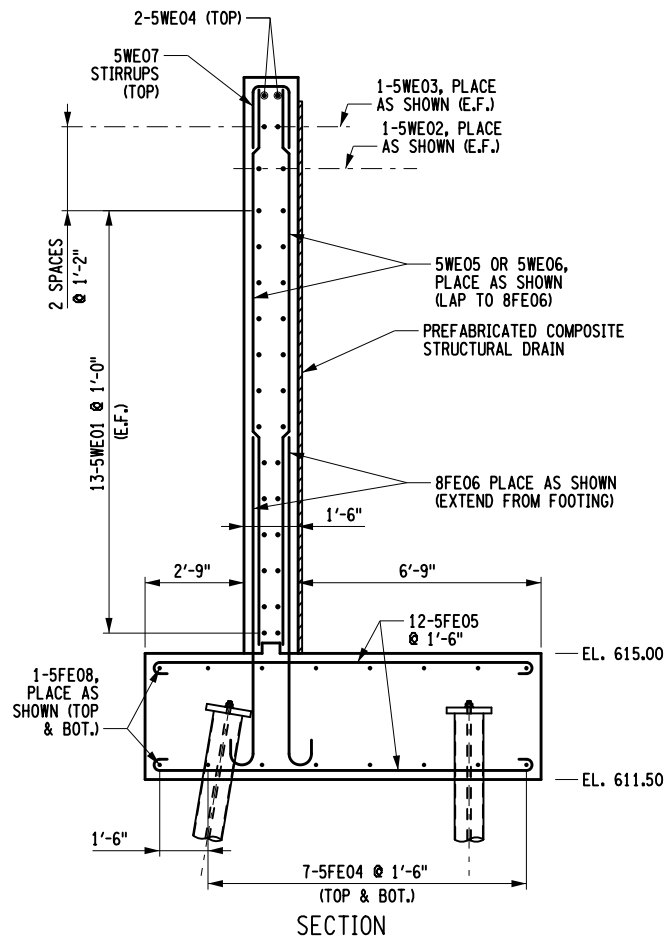
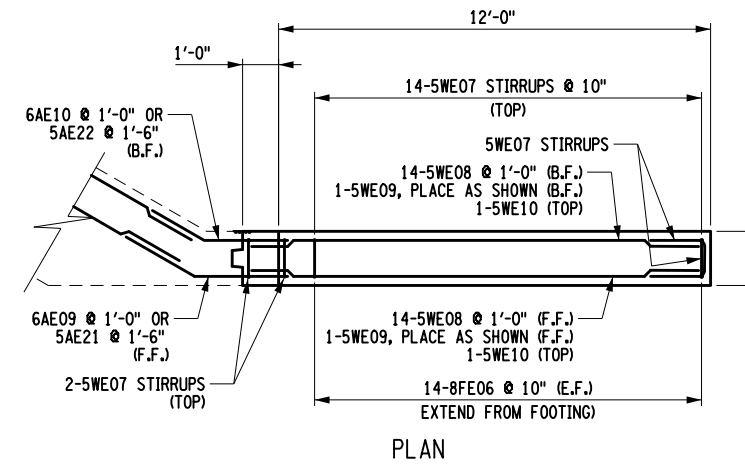
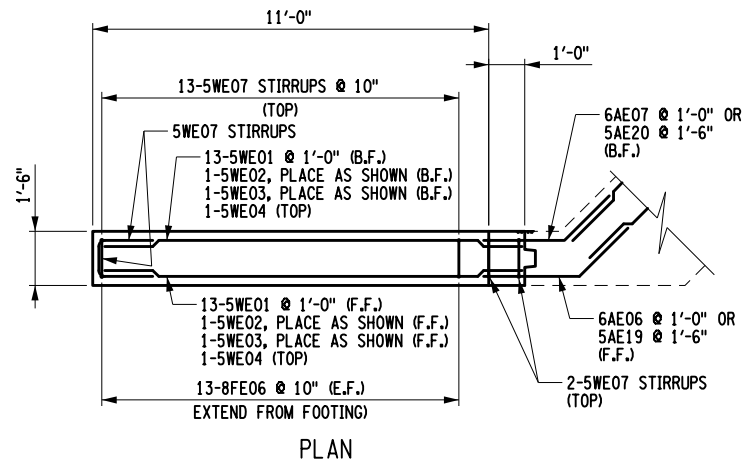
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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.



NOTES:

B.F. - DENOTES BACK FACE
 F.F. - DENOTES FRONT FACE
 E.F. - DENOTES EACH FACE

1. ALL ELEVATIONS ARE SHOWN IN FEET.
2. ALL EXPOSED EDGES OF CONCRETE ARE TO BE CHAMFERED 1" UNLESS OTHERWISE NOTED.
3. ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED ACCORDING TO ITEM 559.16960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE.
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SOUTHWEST WINGWALL REINFORCING DETAILS
 SCALE 3/16" = 1'-0"

NORTHWEST WINGWALL REINFORCING DETAILS
 SCALE 3/16" = 1'-0"

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
NORTHWEST WINGWALL	11.0 CY	555.09
	1,045 LB	556.0202
SOUTHWEST WINGWALL	9.6 CY	555.09
	931 LB	556.0202

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	
COUNTY ROUTE 10A	
TOWN: ELIZABETHTOWN	
COUNTY: ESSEX	REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C
 BRIDGES 3301700

CULVERTS
 ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 WEST ABUTMENT WINGWALL REINFORCING
 PLANS, ELEVATIONS AND SECTIONS
 WATER STREET
 OVER
 THE BRANCH

CONTRACT NUMBER
 D035818
 DRAWING NO. ST-10
 SHEET NO. 35 OF 61

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 MANAGER GVN

CHECK GVN

DRAFTING JAT

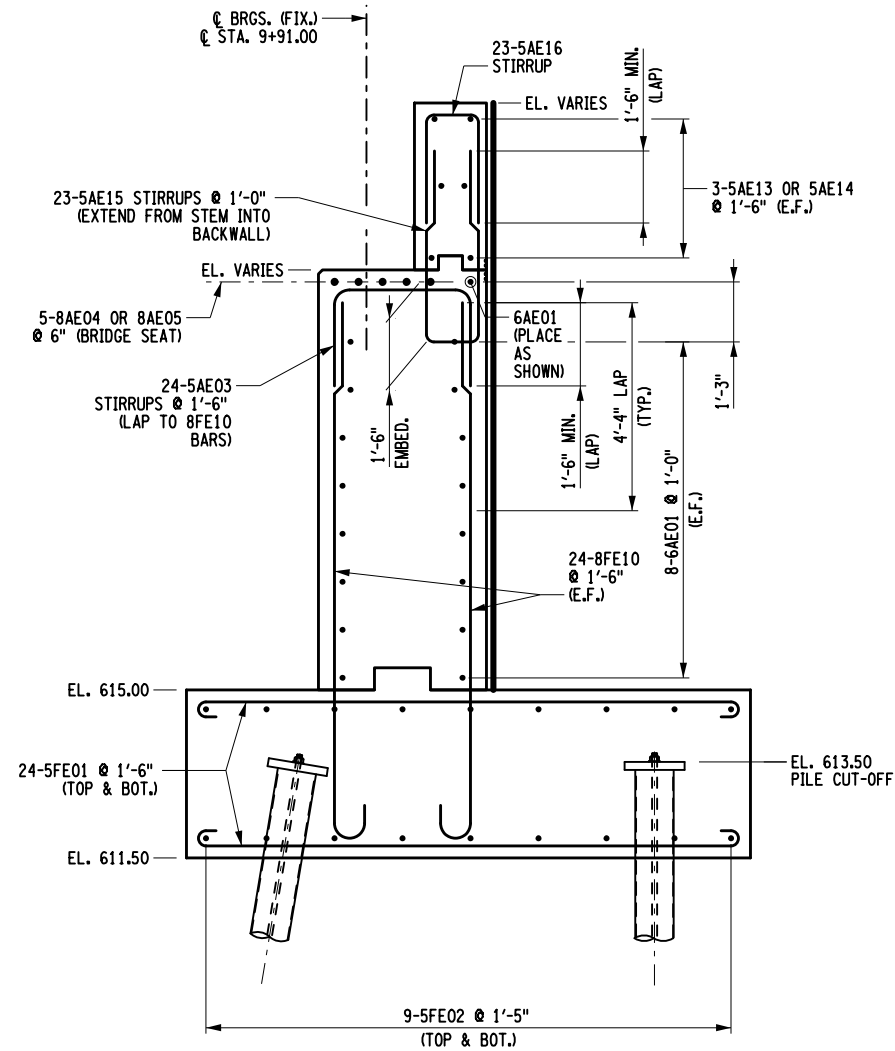
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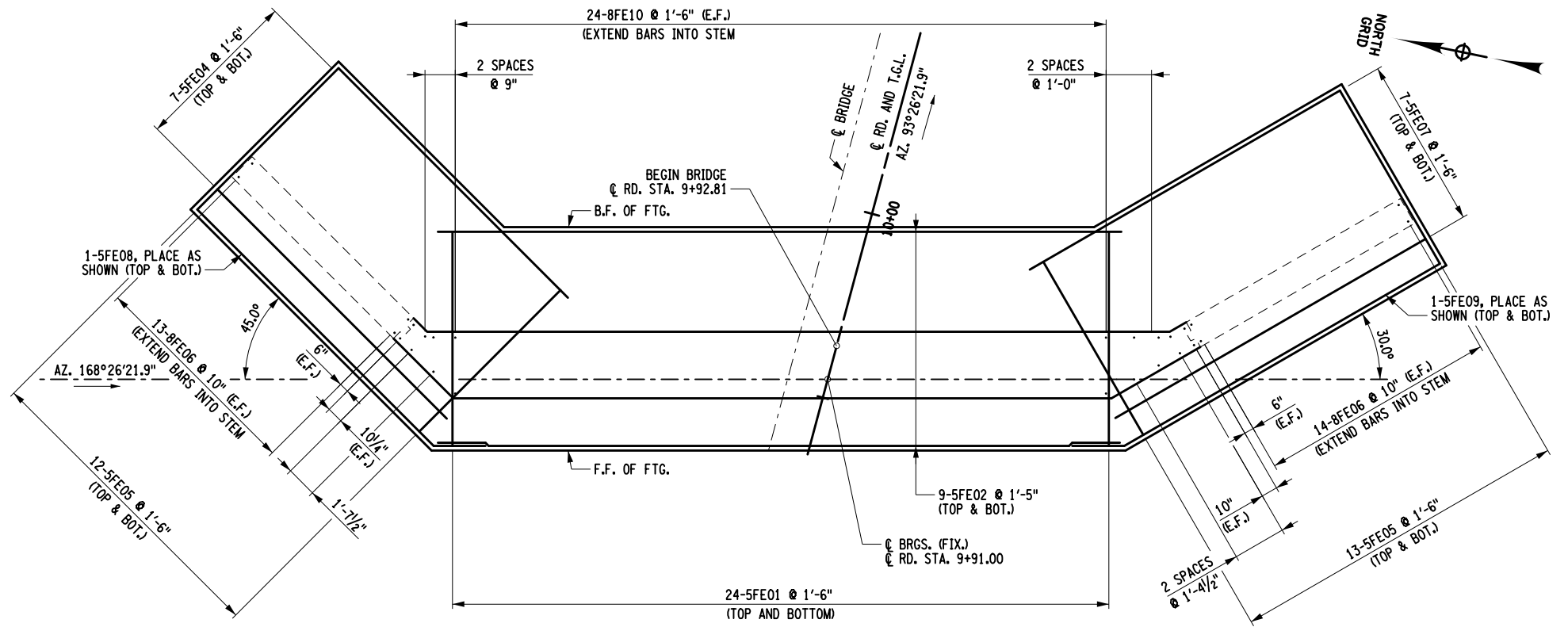
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DESIGN SUPERVISOR MTS

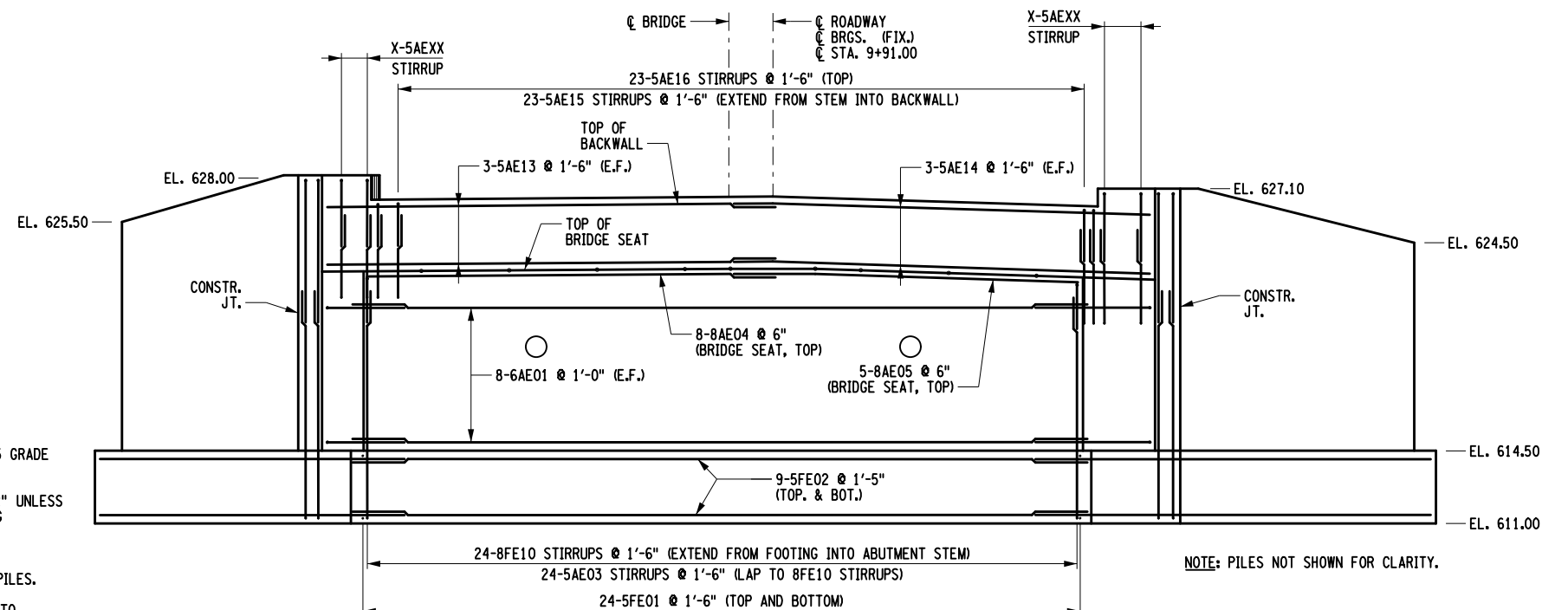
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USER = gneaddo



EAST ABUTMENT SECTION
SCALE 1/4" = 1'



EAST ABUTMENT PLAN
SCALE 1/8" = 1'



EAST ABUTMENT ELEVATION
SCALE 1/8" = 1'

NOTES:

- B.F. - DENOTES BACK FACE
 - F.F. - DENOTES FRONT FACE
 - E.F. - DENOTES EACH FACE
1. ALL ELEVATIONS ARE SHOWN IN FEET.
 2. ALL BAR REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
 3. COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED. COVER FOR STEEL FOOTING REINFORCEMENT SHALL BE 3".
 4. ALL FOOTING REINFORCEMENT SPACING MAY BE ADJUSTED TO AVOID INTERFERENCE WITH THE PILES.
 5. 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.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



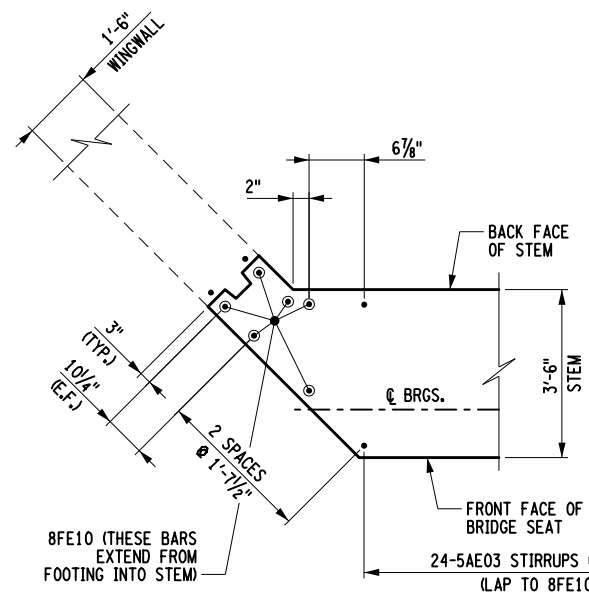
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C				
	TOWN: ELIZABETHTOWN	REGION: 1	EAST ABUTMENT REINFORCING PLAN, ELEVATION AND SECTION WATER STREET OVER THE BRANCH			DRAWING NO. ST-11 SHEET NO. 36 OF 61
	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.



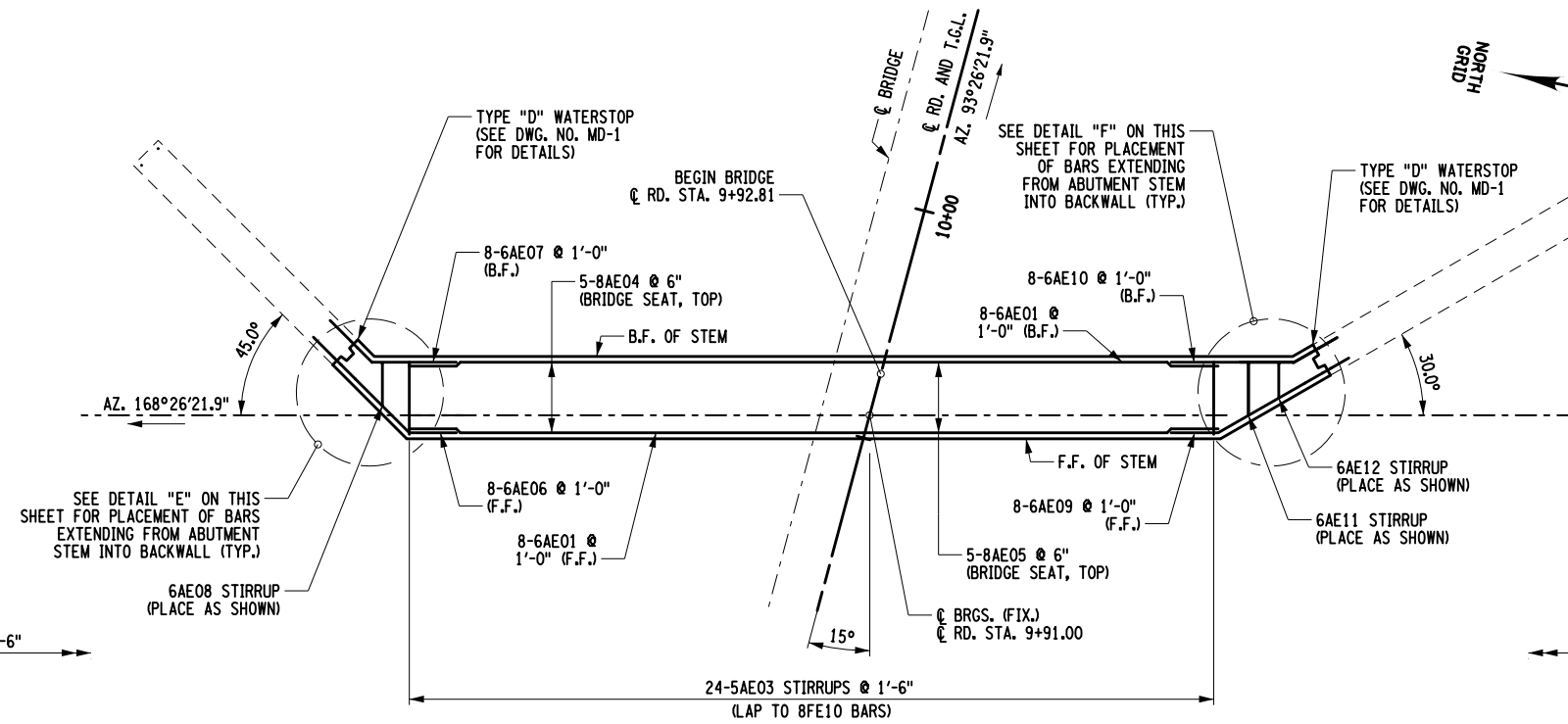
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 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

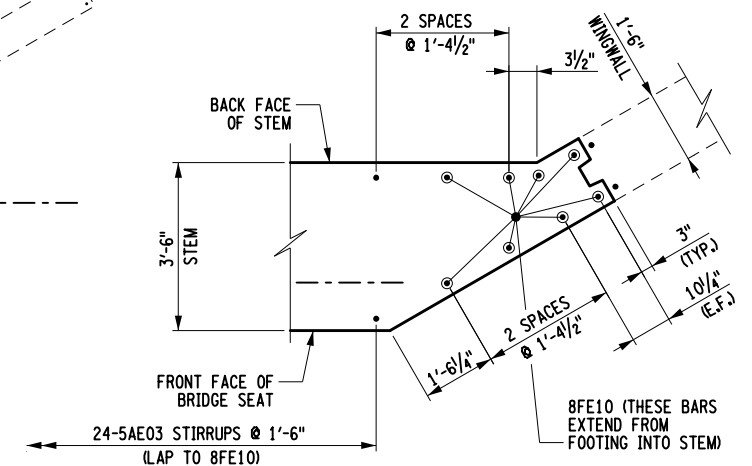


DETAIL "E"
NOT TO SCALE

NOTE: FOOTING AND MAIN REINFORCING NOT SHOWN FOR CLARITY.

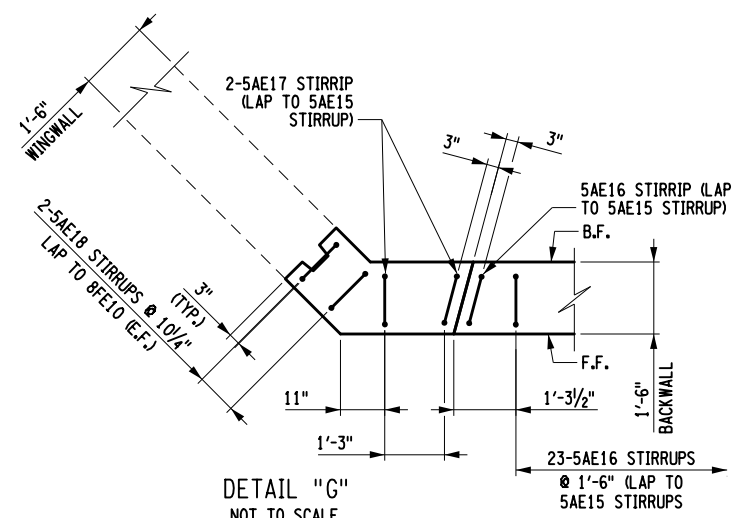


STEM REINFORCING PLAN - POUR NO. 2
SCALE 1/8" = 1'-0"



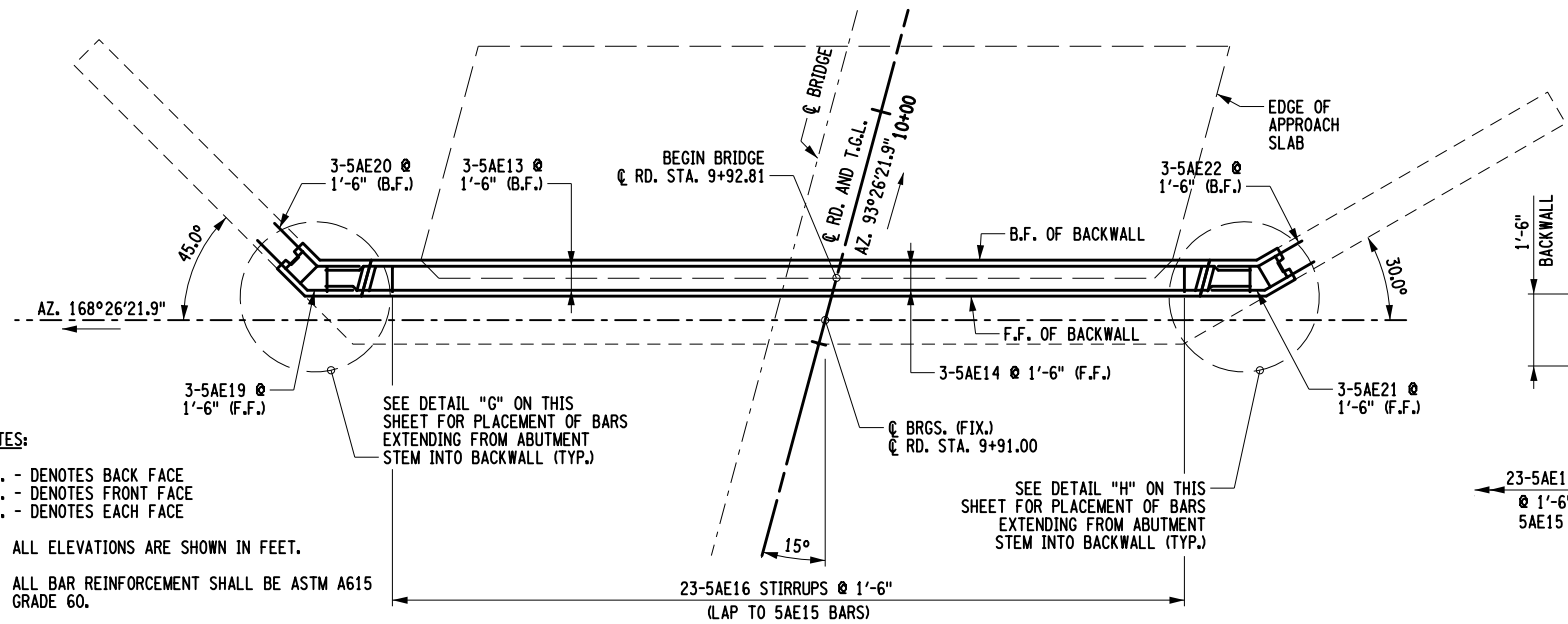
DETAIL "F"
NOT TO SCALE

NOTE: FOOTING AND MAIN REINFORCING NOT SHOWN FOR CLARITY.

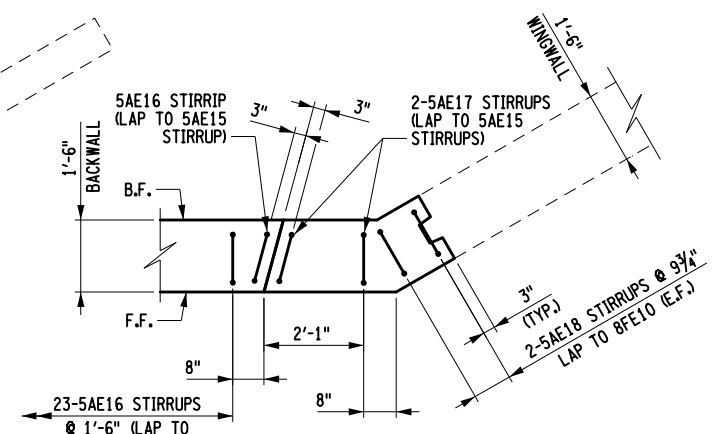


DETAIL "G"
NOT TO SCALE

NOTE: FOOTING AND MAIN REINFORCING NOT SHOWN FOR CLARITY.



BACKWALL REINFORCING PLAN - POUR NO. 3
SCALE 1/8" = 1'-0"



DETAIL "H"
NOT TO SCALE

NOTE: FOOTING AND MAIN REINFORCING NOT SHOWN FOR CLARITY.

NOTES:

- B.F. - DENOTES BACK FACE
 - F.F. - DENOTES FRONT FACE
 - E.F. - DENOTES EACH FACE
1. ALL ELEVATIONS ARE SHOWN IN FEET.
 2. ALL BAR REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
 3. COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED. COVER FOR STEEL FOOTING REINFORCEMENT SHALL BE 3".
 4. 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.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				EAST ABUTMENT REINFORCING PLANS AND DETAILS	DRAWING NO. ST-12
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 37 OF 61
	COUNTY: ESSEX	REGION: 1				

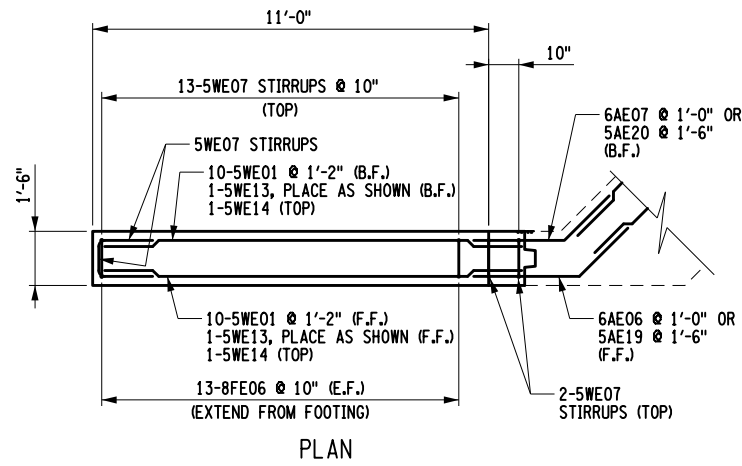
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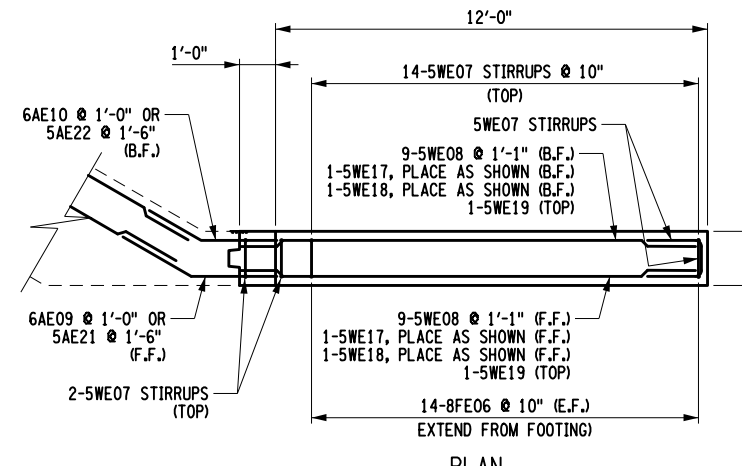
NOTES:

B.F. - DENOTES BACK FACE
 F.F. - DENOTES FRONT FACE
 E.F. - DENOTES EACH FACE

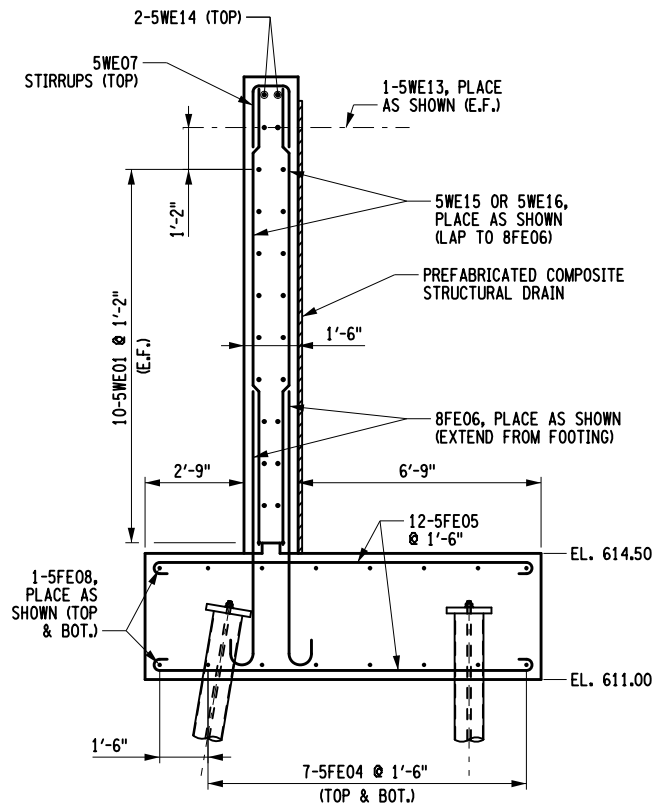
1. ALL ELEVATIONS ARE SHOWN IN FEET.
2. ALL EXPOSED EDGES OF CONCRETE ARE TO BE CHAMFERED 1" UNLESS OTHERWISE NOTED.
3. ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED ACCORDING TO ITEM 559.16960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE.
4. ALL FOOTING REINFORCEMENT SPACING MAY BE ADJUSTED TO AVOID INTERFERENCE WITH THE PILES.
5. 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.



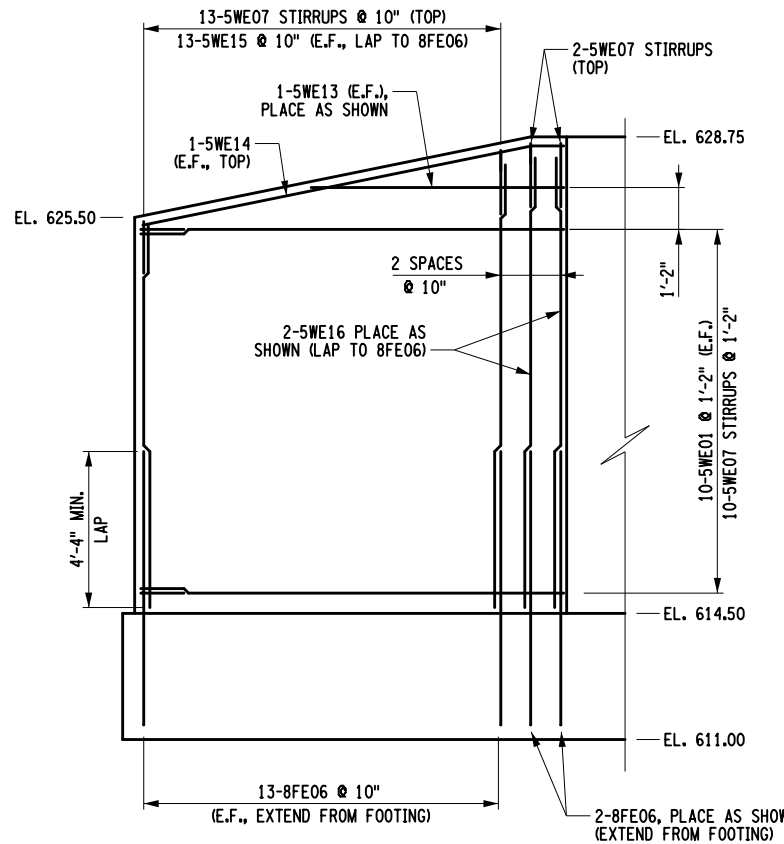
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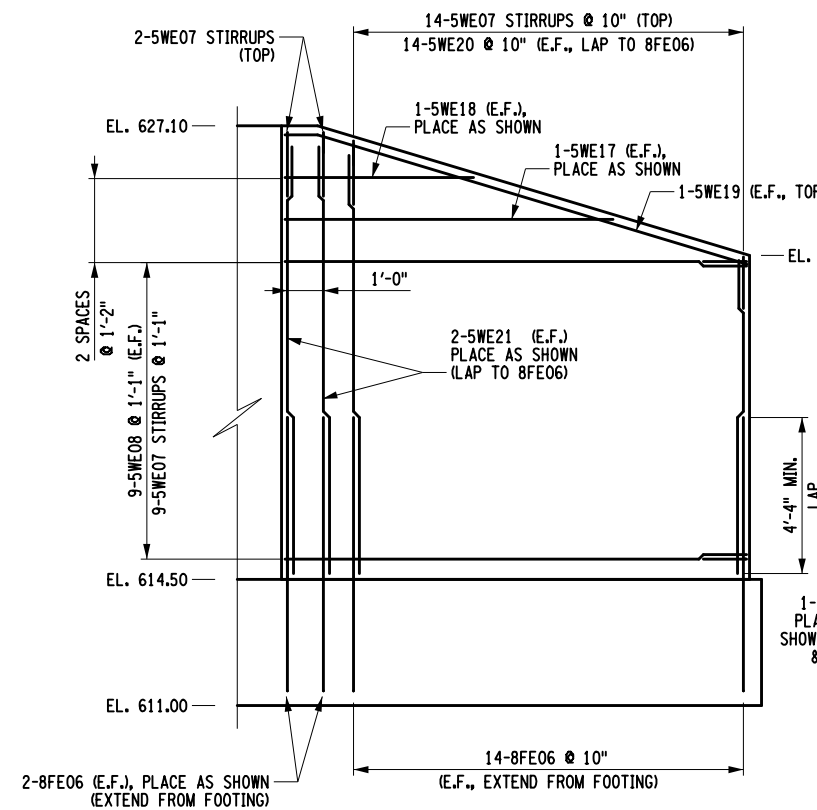
PLAN



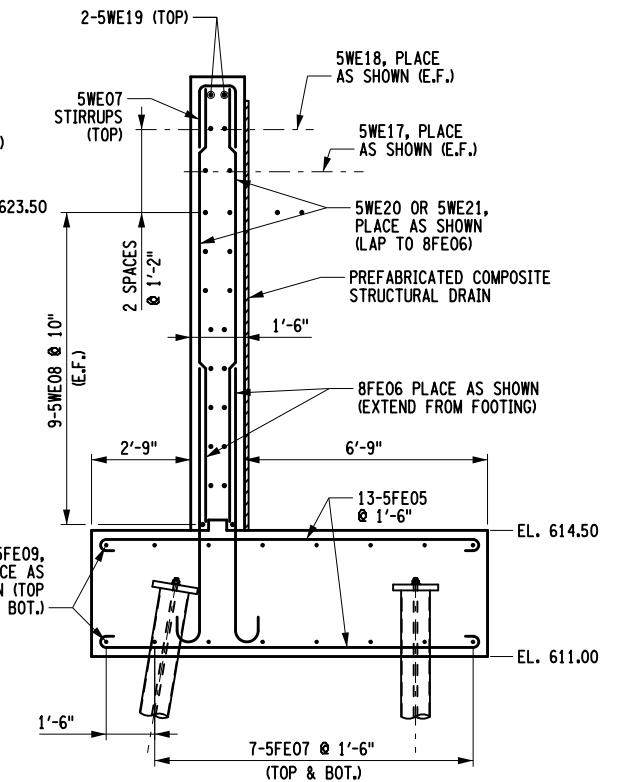
SECTION



ELEVATION



ELEVATION



SECTION

NORTHEAST WINGWALL REINFORCING DETAILS

SCALE 3/16" = 1'-0"

SOUTHEAST WINGWALL REINFORCING DETAILS

SCALE 3/16" = 1'-0"

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
NORTHEAST WINGWALL	8.2 CY	555.09
	769 LB	556.0202
SOUTHEAST WINGWALL	8.1 CY	555.09
	1,155 LB	556.0202

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	
COUNTY ROUTE 10A	
TOWN: ELIZABETHTOWN	
COUNTY: ESSEX	REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C

BRIDGES
 3301700

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 EAST ABUTMENT WINGWALL REINFORCING
 PLANS, ELEVATIONS AND SECTIONS
 WATER STREET
 OVER
 THE BRANCH

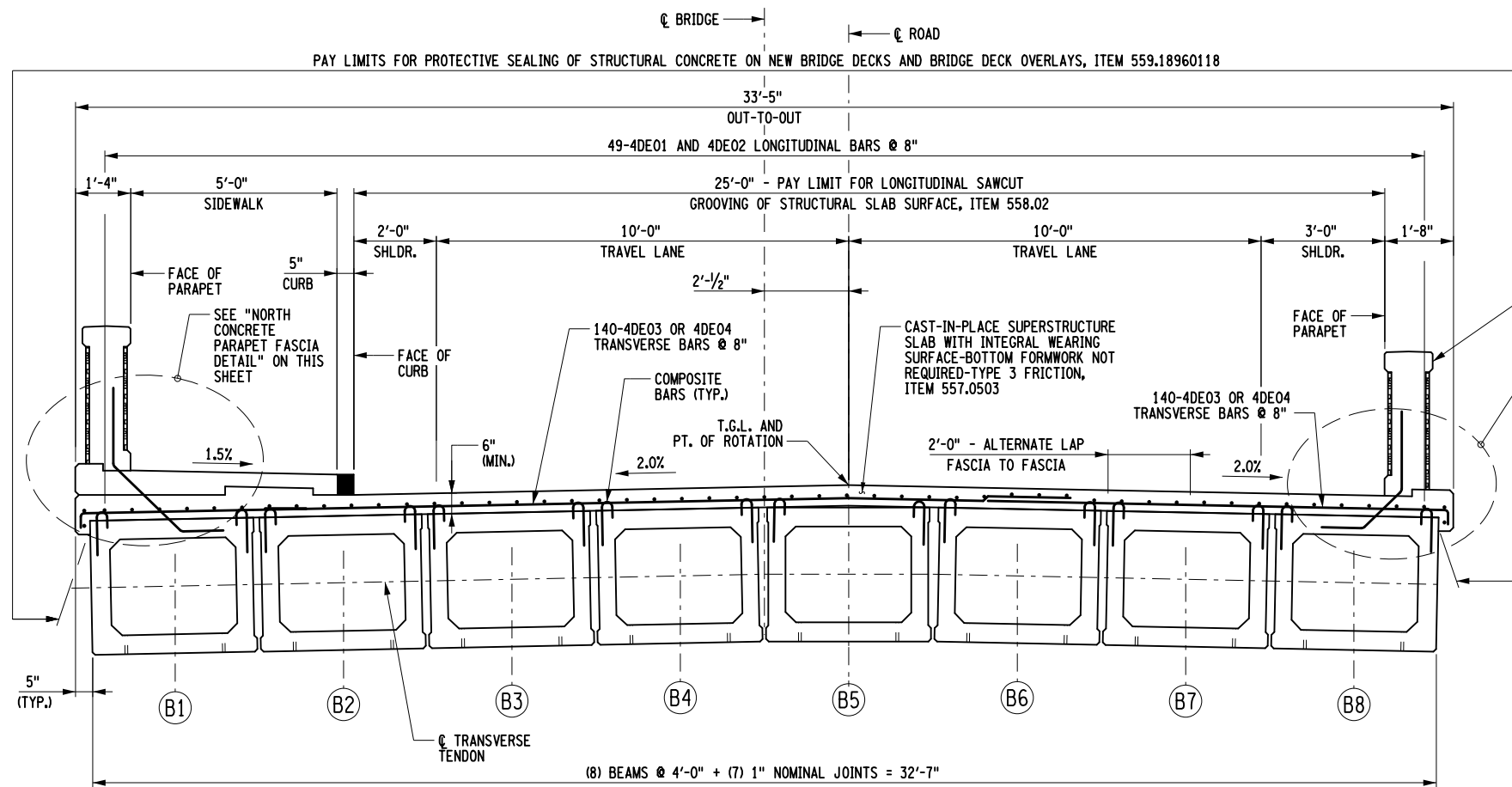
CONTRACT NUMBER
 D035818

DRAWING NO. ST-13
 SHEET NO. 38 OF 61

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.



PAY LIMITS FOR PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS, ITEM 559.18960118



SEQUENCE OF CONSTRUCTION
SINGLE STAGE ADJACENT BOX BEAMS

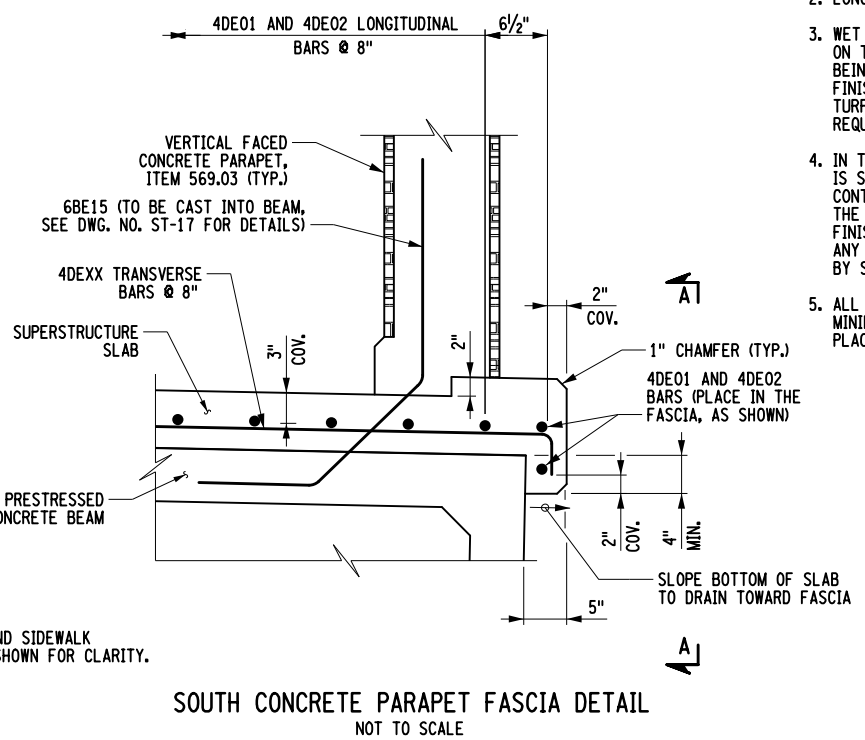
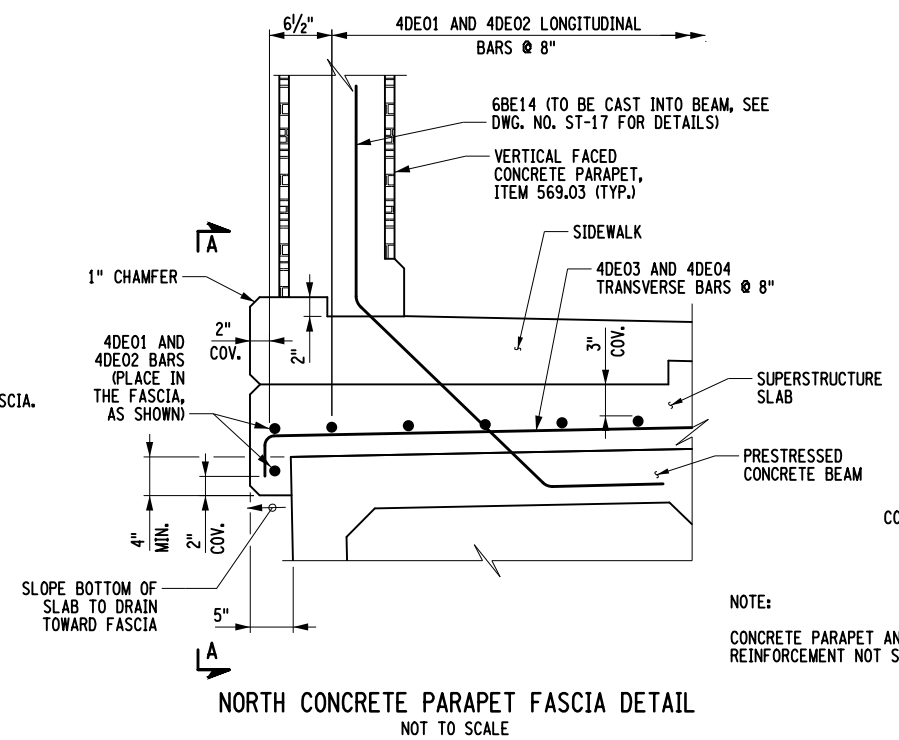
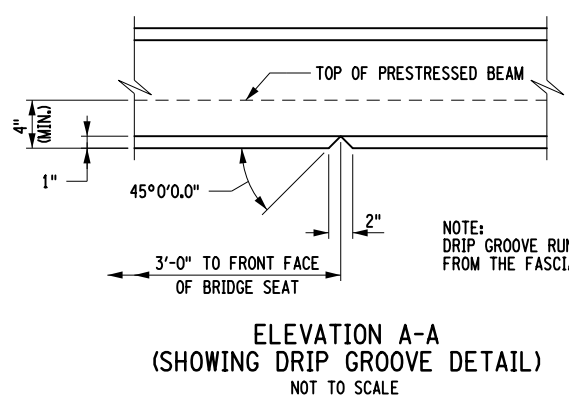
1. PLACE BEARING AS SHOWN ON THE CONTRACT PLANS.
2. PLACE THE BOX BEAMS ON THE BEARINGS
3. DRILL AND CLEAN DOWEL HOLES IN THE BRIDGE SEAT.
4. INSTALL ANCHOR DOWELS.
5. WASH SHEAR KEYS THOROUGHLY TO REMOVE ANY FOREIGN MATERIAL. INSTALL BACKER RODS IN THE SHEAR KEYS.
6. GROUT AND CURE THE SHEAR KEYS WITH AN APPROVED GROUT MATERIAL FOLLOWING MANUFACTURERS INSTRUCTIONS. ALL SHEAR KEYS SHALL BE COMPLETELY FILLED.
7. TENSION THE TRANSVERSE TENDONS TO 28 kips/STRAND NO SOONER THAN 24 HOURS AFTER BUT WITHIN 21 DAYS AFTER PLACEMENT OF GROUT IN THE LAST SHEAR KEY.
8. CLEAN AND PRE-WET THE TOP SURFACES OF THE BEAMS PRIOR TO PLACING CONCRETE FOR DECK POUR. CURE THE SLAB USING APPROPRIATE APPROVED METHODS.

GENERAL NOTE:

1. TOP SURFACES OF NEW BRIDGE DECKS, APPROACH SLABS AND SIDEWALKS SHALL BE SEALED ACCORDING TO ITEM 559.18960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS. ONLY PENETRATING TYPE SEALERS SHALL BE APPLIED TO WALKING OR RIDING SURFACES.
2. 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.

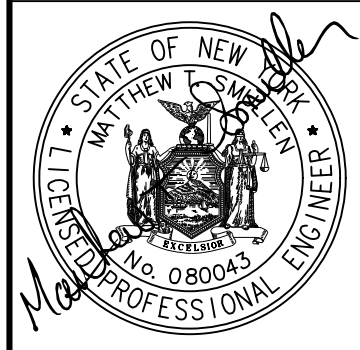
DECK PLACEMENT NOTES:

1. CONCRETE 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.
2. LONGITUDINAL CONSTRUCTION JOINTS WILL NOT BE PERMITTED.
3. 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.
4. 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.
5. ALL PRESTRESSED CONCRETE BRIDGE BEAMS SHALL HAVE A MINIMUM AGE OF 60 DAYS AT THE TIME OF CONCRETE DECK PLACEMENT.



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C				TRANSVERSE SECTION AND DETAILS
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	
	COUNTY: ESSEX	REGION: 1				

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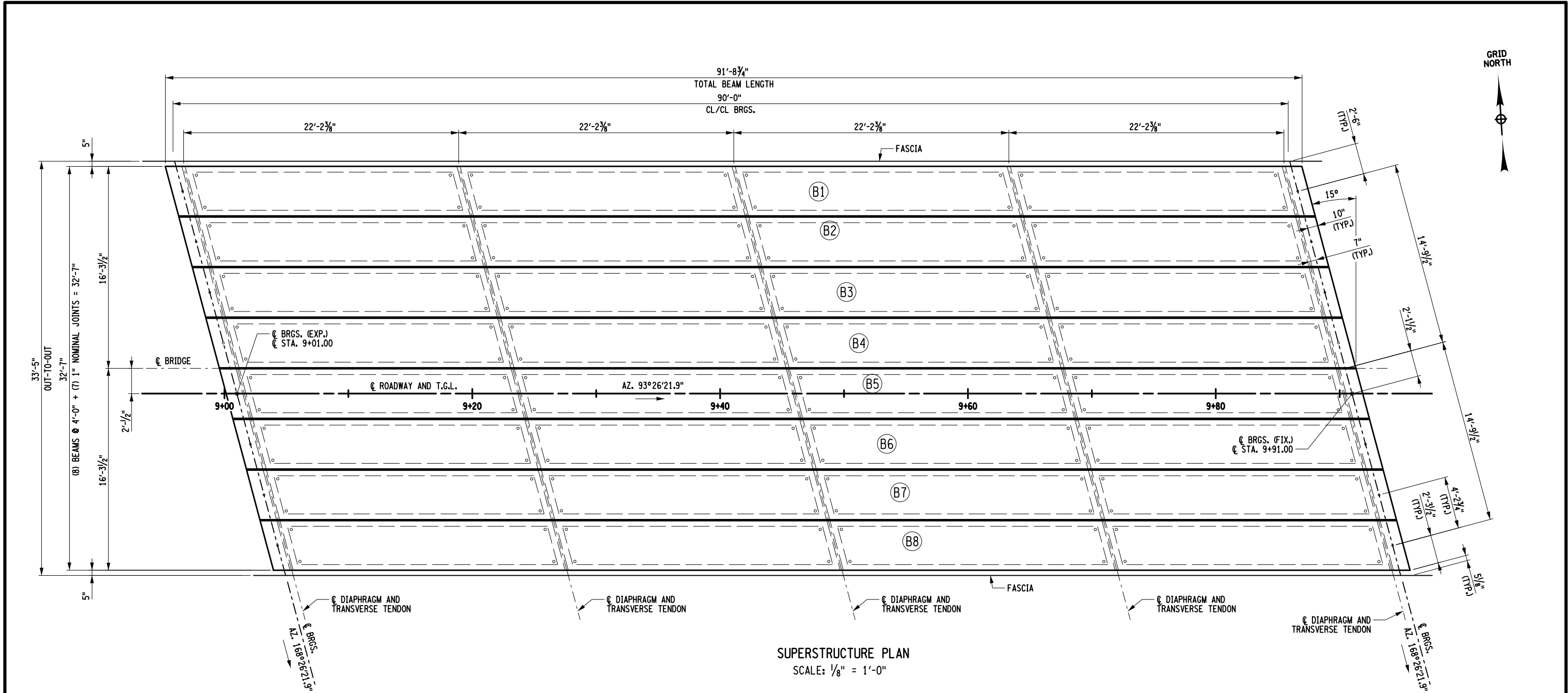
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DRAFTING JAT
CHECK GWN
DESIGN JAT
JOB MANAGER GWN
DESIGN SUPERVISOR MTS

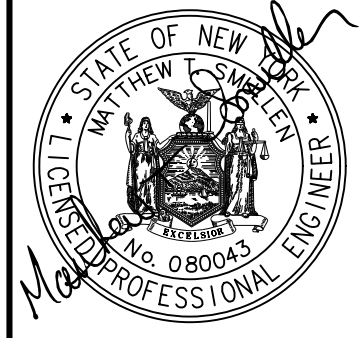


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 JOB MANAGER GWN
 DESIGN JAT
 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 PROJECT MANAGER GWN



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021



ALTERED BY:
 ON:

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY ROUTE 10A
 TOWN: ELIZABETHTOWN
 COUNTY: ESSEX REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C

BRIDGES
 3301700

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 SUPERSTRUCTURE LAYOUT
 WATER STREET
 OVER
 THE BRANCH

CONTRACT NUMBER
 D035818
 DRAWING NO. ST-15
 SHEET NO. 40 OF 61

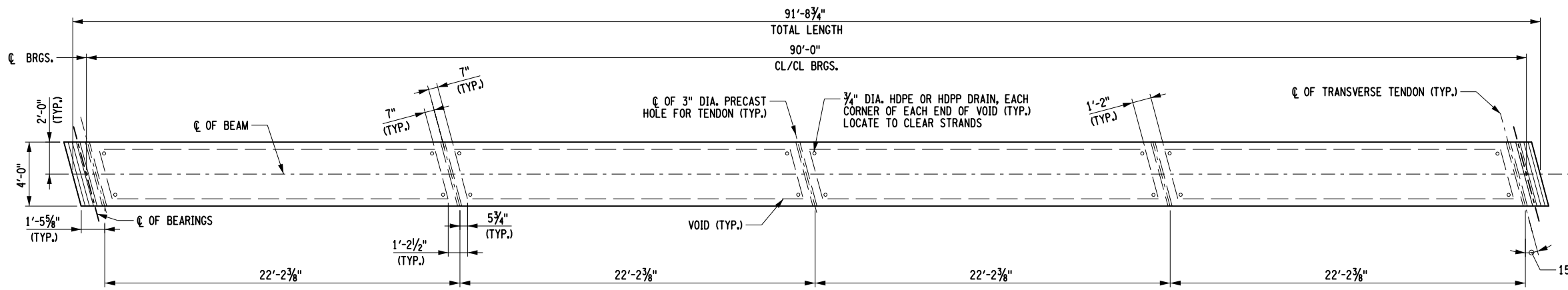
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- NOTES:
1. ALL REINFORCEMENT SHALL HAVE 3" COVER UNLESS OTHERWISE NOTED.
 2. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

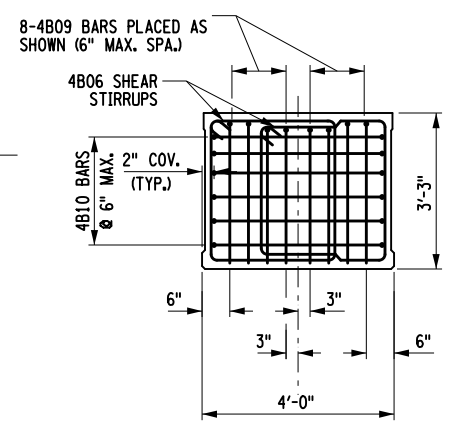


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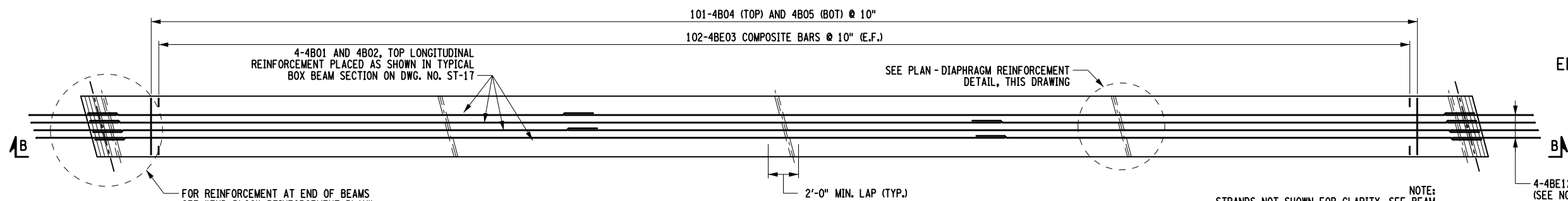


PLAN - BOX BEAM



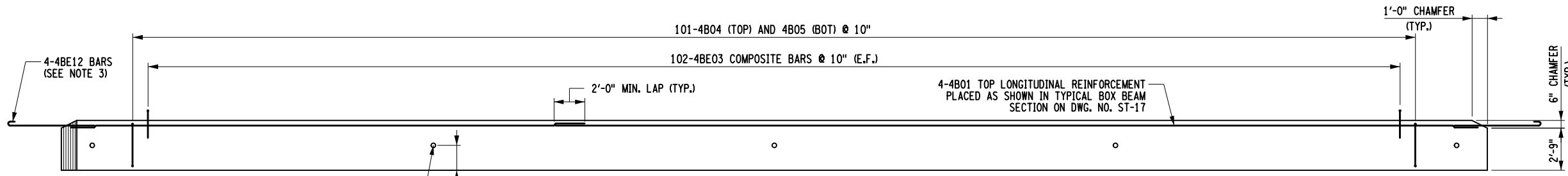
END BLOCK REINFORCEMENT DETAIL (4'-0" WIDE)

NOTE: SEE DWG. NO. ST-17 FOR END BLOCK REINFORCEMENT PLAN



REINFORCEMENT PLAN - BOX BEAM

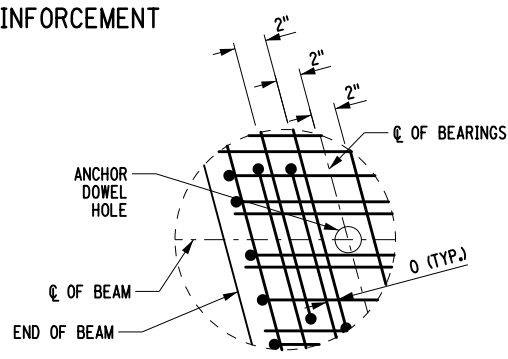
NOTE: STRANDS NOT SHOWN FOR CLARITY, SEE BEAM END BLOCK REINFORCEMENT AND DIAPHRAGM REINFORCEMENT DETAILS FOR MORE INFORMATION.



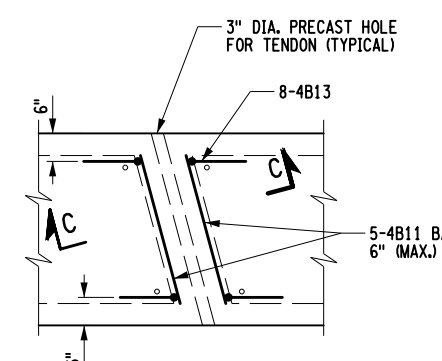
SECTION B-B - REINFORCEMENT

NOTES:

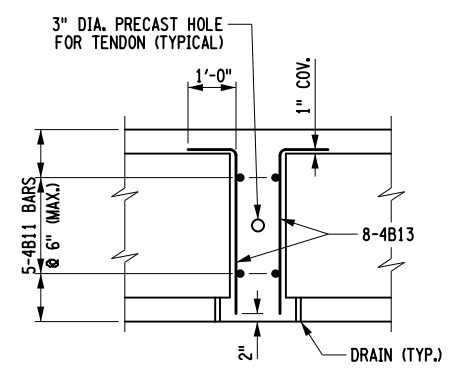
1. ALL BAR REINFORCEMENT AND RAILING ANCHORAGE EMBEDDED IN OR PROTRUDING FROM THE PRESTRESSED BEAMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED BEAMS INCLUDING CONCRETE BARRIER BARS.
2. (E) DENOTES EPOXY COATED BARS.
3. THIS BAR IS TO BE CAST INTO THE PRECAST BEAMS AND LAPPED TO THE 4B01 AND 4B02 LONGITUDINAL BARS. OMIT THESE BARS AT THE FASCIA BEAMS.
3. 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.



DETAIL A



PLAN



SECTION C-C

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C	3301700			
	TOWN: ELIZABETHTOWN					
	COUNTY: ESSEX	REGION: 1				
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.						DRAWING NO. ST-16 SHEET NO. 41 OF 61



PROJECT MANAGER GWN

CHECK GWN

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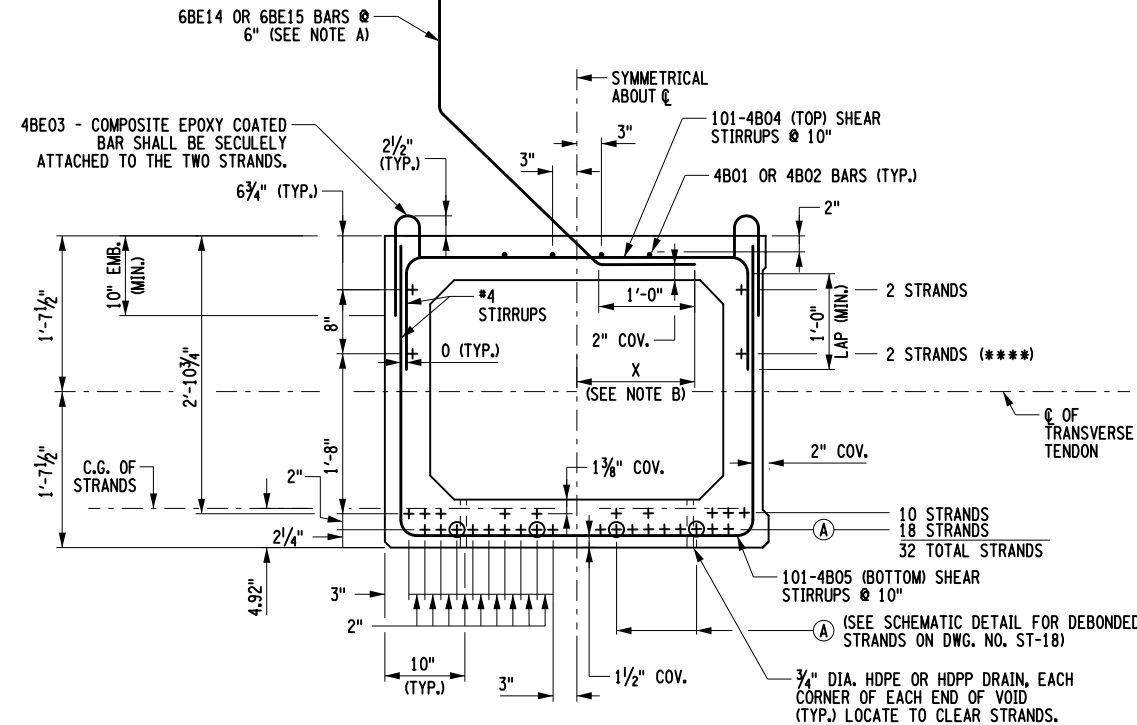
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DESIGN JAT

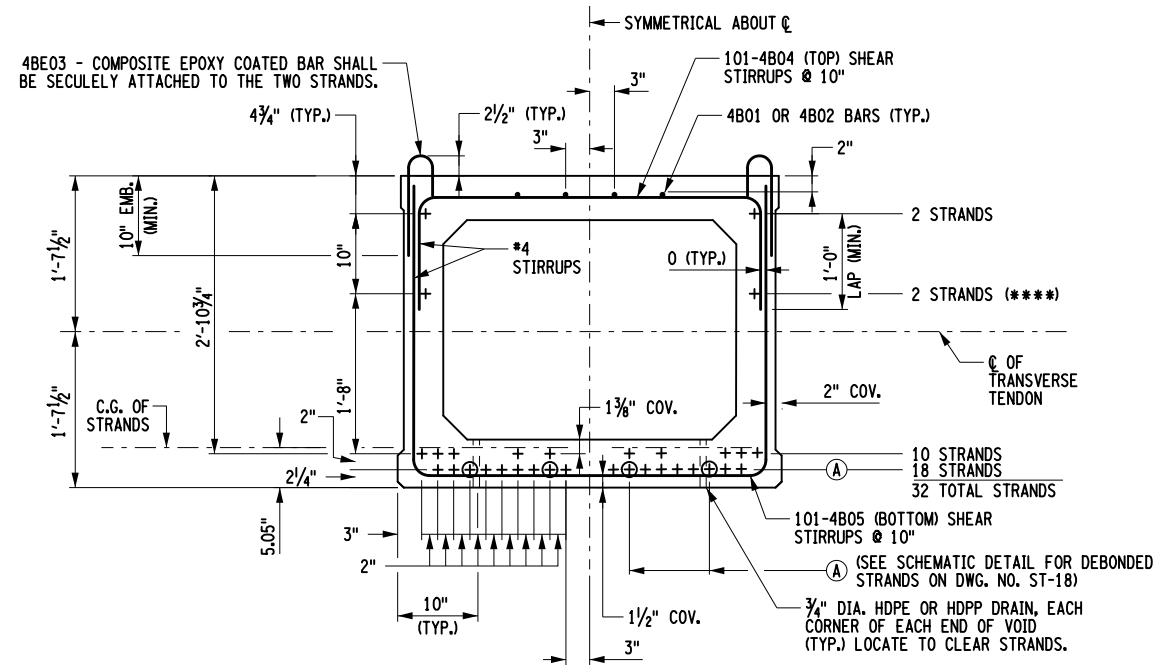
JOB MANAGER GWN

DESIGN SUPERVISOR MTS

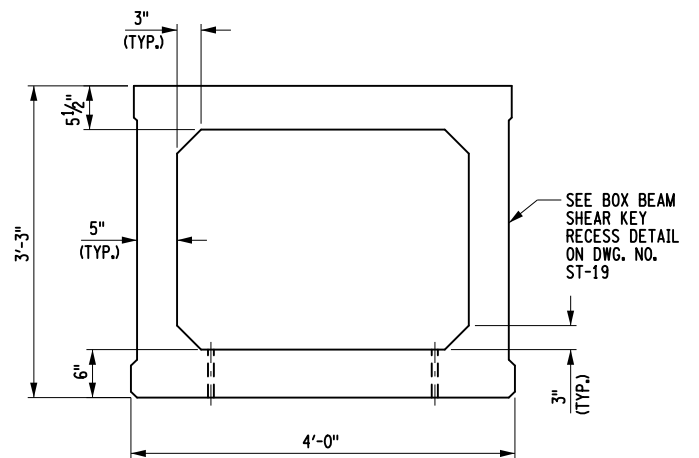
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USER = gneaddo



TYPICAL BOX BEAM REINFORCING SECTION B1 AND B8



TYPICAL BOX BEAM REINFORCING SECTION B2, B3, B4, B5, B6 AND B7



TYPICAL BOX BEAM SECTION 48" x 39"

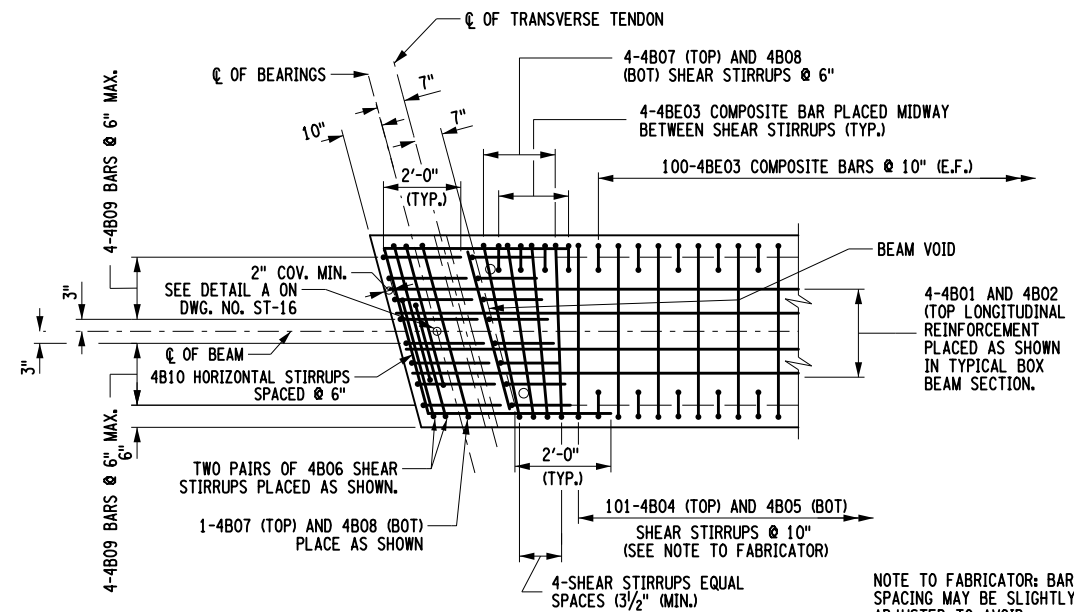
LEGEND

+ - DENOTES STRAIGHT BONDED STRANDS
⊕ - DENOTES STRAIGHT DEBONDED STRANDS

**** THESE STRANDS SHALL BE TENSIONED TO A JACKING FORCE OF 2.2 KIPS.

NOTE A: THIS BAR IS TO BE CAST INTO THE PRECAST UNIT AND TIED TO THE BEAM REINFORCEMENT WHENEVER POSSIBLE. REINFORCEMENT FOR B1 SHOWN. REINFORCEMENT FOR B8 SIMILAR, UNLESS OTHERWISE NOTED.

NOTE B:
DIMENSION "X" @ B1 = 1'-2 3/4"
DIMENSION "X" @ B8 = 10"



TYPICAL END BLOCK REINFORCING PLAN (4'-0" WIDE)

PARAPET REINFORCEMENT NOT SHOWN FOR CLARITY.

CAMBER TABLE (MID-SPAN)

	B1 AND B8	B2, B3, B4, B5, B6 AND B7
CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD AT TRANSFER	↑ 1.371	1.344
CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD WITH GROWTH **	↑ 0.686	0.672
DEFLECTION DUE TO SLAB DEAD LOAD	↓ 0.497	0.455
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	↓ 0.274	0.281

** CAMBER GROWTH IS ASSUMED TO BE 50% OF THE CAMBER AT TRANSFER.

NOTES:
THE PRESTRESSING STRANDS SHALL BE 0.6" DIA. LOW RELAXATION STEEL STRAND WITH A GUARANTEED ULTIMATE STRENGTH OF 270ksi.
JACKING FORCE = 43.9 kips PER STRAND
REQUIRED MINIMUM CONCRETE STRENGTH AT TRANSFER = 7 ksi.
REQUIRED MINIMUM CONCRETE STRENGTH AT 56 DAYS = 10 ksi.
THE ALLOWABLE TENSION IN THE PRESTRESSED CONCRETE UNITS: AT TRANSFER = 0.630 ksi.
AT SERVICE LIMIT STATE = 0.600 ksi. (HL-93)

ALL EXPOSED CORNERS, EXCEPT THE TOP, SHALL BE CHAMFERED 3/4 in.
ALL TEMPORARY INSERTS SHALL BE APPROVED BY THE ENGINEER (STRUCTURES) AND DETAILED ON THE PRESTRESSED CONCRETE "SHOP DRAWINGS".

PRESTRESSING STRANDS CUT FLUSH WITH THE END OF THE BEAM OR EXTENDED FOR INTEGRAL ABUTMENT APPLICATIONS SHALL BE PROTECTED AGAINST CORROSION BY THE APPLICATION OF ZINC PAINT IN ACCORDANCE WITH THE "REPAIR" PORTION OF THE NYS STANDARD SPECIFICATION SECTION 719.01. THE COST OF COATING THE STRANDS SHALL BE INCLUDED IN THE PRICE BID FOR THE BEAM ITEM.

BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60.

THE TOPS OF PRESTRESSED UNITS SHALL RECEIVE A TRANSVERSE ROUGHENED FINISH WITH AN AMPLITUDE OF 1/4 in.

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.

DESIGN LOAD TABLE

UNIT	B1 AND B8		B2, B3, B4, B5, B6 AND B7	
	REACTION AT ABUTMENT (kips)	MAX. MOM. MIDSPAN (KIP-ft.)	REACTION AT ABUTMENT (kips)	MAX. MOM. MIDSPAN (KIP-ft.)
D.L. BOX BEAM	44.9	940.7	44.9	940.7
SLAB	15.0	338.5	13.8	310.1
S.D.L. BARRIER & SIDEWALK	9.2	206.9	9.2	206.9
FUTURE W.S.	2.7	60.8	2.7	60.8
L.L. HL-93	69.6	691.4	59.9	683.5

ASSUMED LIVE LOAD = HL-93
VEHICLE FOR LRFD (HS 25 FOR LFD)
ALL LOADS ARE UNFACTORED AND INCLUDE IMPACT.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY ROUTE 10A
TOWN: ELIZABETHTOWN
COUNTY: ESSEX REGION: 1

PIN 1760.51
UTILITY QUALITY LEVEL C

BRIDGES
3301700

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

B48" X 39" BOX BEAM DETAILS
(2 OF 2)
WATER STREET
OVER
THE BRANCH

CONTRACT NUMBER
D035818

DRAWING NO. ST-17
SHEET NO. 42 OF 61

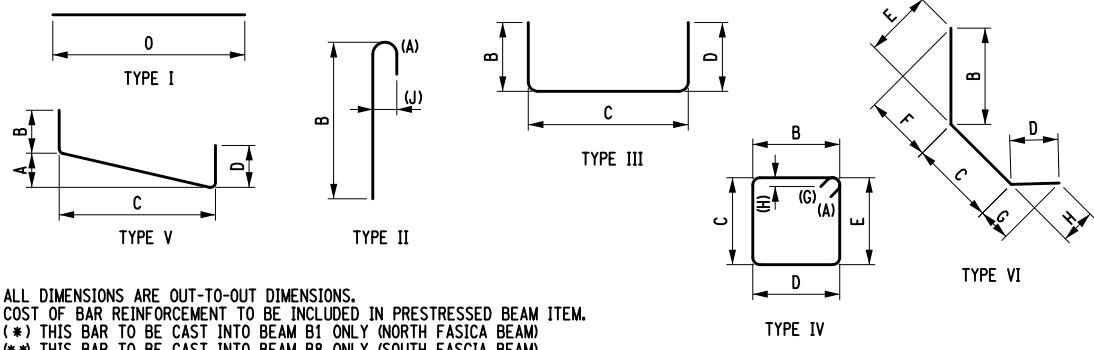
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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.



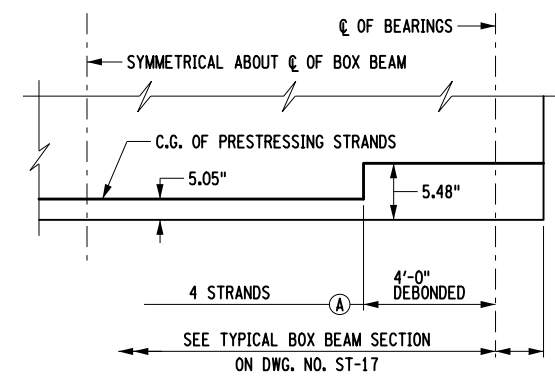
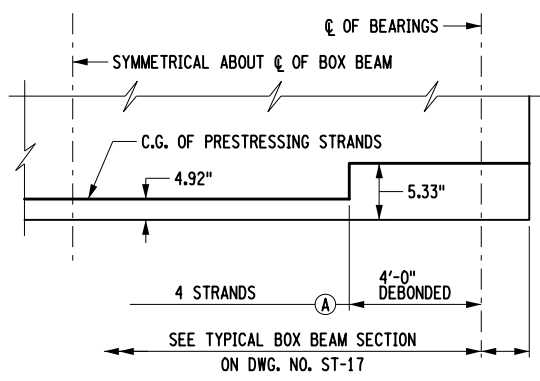
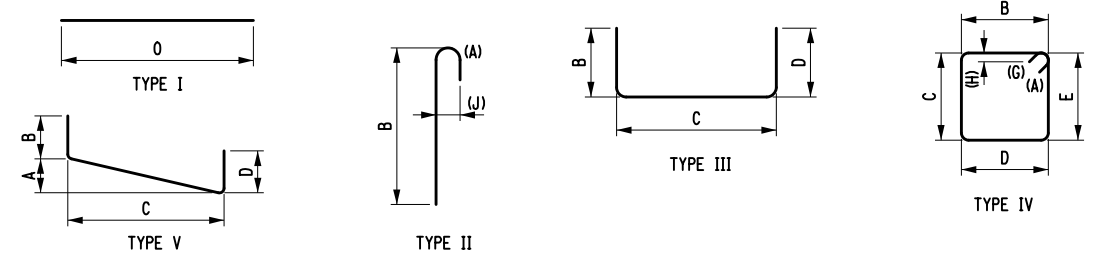
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PROJECT MANAGER GWN
 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

PRESTRESSED CONCRETE BOX BEAM REINFORCEMENT																
MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H	J	K	O	R
4B01	4	60'-0"	I	160											60'-0"	
4B02	4	33'-5"	I	89											33'-5"	
4BE03	208	1'-7"	II	220	6"	1'-1"							4"			
4B04	101	5'-8"	III	382		1'-0"	3'-8"	1'-0"								
4B05	101	9'-6"	III	641		2'-11"	3'-8"	2'-11"								
4B06	8	12'-8"	IV	68	4"	3'-1"	2'-11"	3'-1"	2'-11"		4"	3"				
4B07	10	5'-10 ⁵ / ₈ "	III	39		1'-0"	3'-10 ⁵ / ₈ " (*)	1'-0"			(*) VARIES FROM 3'-8" TO 3'-9 ³ / ₄ "					
4B08	10	9'-8 ⁵ / ₈ "	III	65		2'-11"	3'-10 ⁵ / ₈ " (*)	2'-11"			(*) VARIES FROM 3'-8" TO 3'-9 ³ / ₄ "					
4B09	16	4'-4"	III	46		1'-5"	2'-11"									
4B10	12	11'-1 ¹ / ₂ "	V	89	11"	3'-10 ¹ / ₄ "	3'-8"	3'-10 ¹ / ₄ "								
4B11	40	3'-1 ³ / ₄ "	I	84											3'-1 ³ / ₄ "	
4B13	64	3'-8"	III	157		1'-0"	2'-8"									
6BE14(*)	183	5'-3 ¹ / ₂ "	VI	1455		2'-0"	2'-3 ¹ / ₂ "	1'-0"	1'-5"	1'-5"		8 ³ / ₄ "	8 ³ / ₄ "			
6BE15(**)	183	4'-2 ¹ / ₂ "	VI	1157		2'-0"	1'-2 ¹ / ₂ "	1'-0"	1'-5"	1'-5"		8 ³ / ₄ "	8 ³ / ₄ "			
TOTAL PLAIN BARS				1820 lb. PER BEAM												
TOTAL EPOXY BARS FOR BEAM B1				1675 lb.												
TOTAL EPOXY BARS FOR BEAM B8				1377 lb.												



PRESTRESSED CONCRETE BOX BEAM REINFORCEMENT																
MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H	J	K	O	R
4B01	4	60'-0"	I	160											60'-0"	
4B02	4	33'-5"	I	89											33'-5"	
4BE03	208	1'-7"	II	220	6"	1'-1"							4"			
4B04	101	5'-8"	III	382		1'-0"	3'-8"	1'-0"								
4B05	101	9'-6"	III	641		2'-11"	3'-8"	2'-11"								
4B06	8	12'-8"	IV	68	4"	3'-1"	2'-11"	3'-1"	2'-11"		4"	3"				
4B07	10	5'-10 ⁵ / ₈ "	III	39		1'-0"	3'-10 ⁵ / ₈ " (*)	1'-0"			(*) VARIES FROM 3'-8" TO 3'-9 ³ / ₄ "					
4B08	10	9'-8 ⁵ / ₈ "	III	65		2'-11"	3'-10 ⁵ / ₈ " (*)	2'-11"			(*) VARIES FROM 3'-8" TO 3'-9 ³ / ₄ "					
4B09	16	4'-4"	III	46		1'-5"	2'-11"									
4B10	12	11'-1 ¹ / ₂ "	V	89	11"	3'-10 ¹ / ₄ "	3'-8"	3'-10 ¹ / ₄ "								
4B11	40	3'-1 ³ / ₄ "	I	84											3'-1 ³ / ₄ "	
4BE12	8	5'-11 ¹ / ₂ "	II	32	6"	5'-5 ¹ / ₂ "							4"			
4B13	64	3'-8"	III	157		1'-0"	2'-8"									
TOTAL PLAIN BARS				1820 lb. PER BEAM												
TOTAL EPOXY BARS				252 lb. PER BEAM												



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY ROUTE 10A
 TOWN: ELIZABETHTOWN
 COUNTY: ESSEX REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C
 BRIDGES 3301700
 CULVERTS

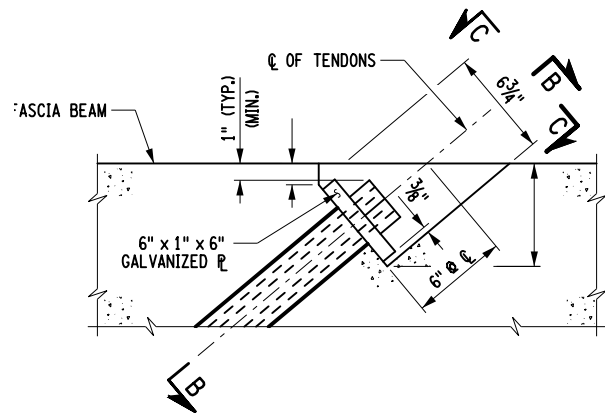
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
 PRESTRESSED CONCRETE BOX BEAM
 BARLIST AND DETAILS
 WATER STREET
 OVER
 THE BRANCH

CONTRACT NUMBER
 D035818
 DRAWING NO. ST-18
 SHEET NO. 43 OF 61

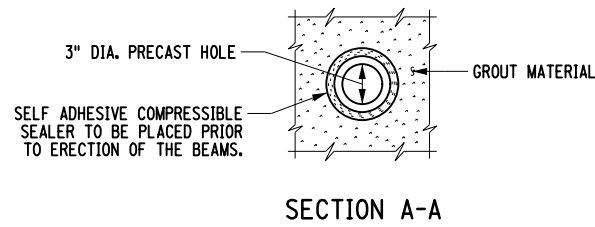
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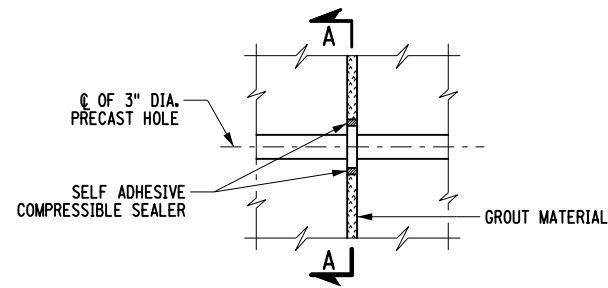
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 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS



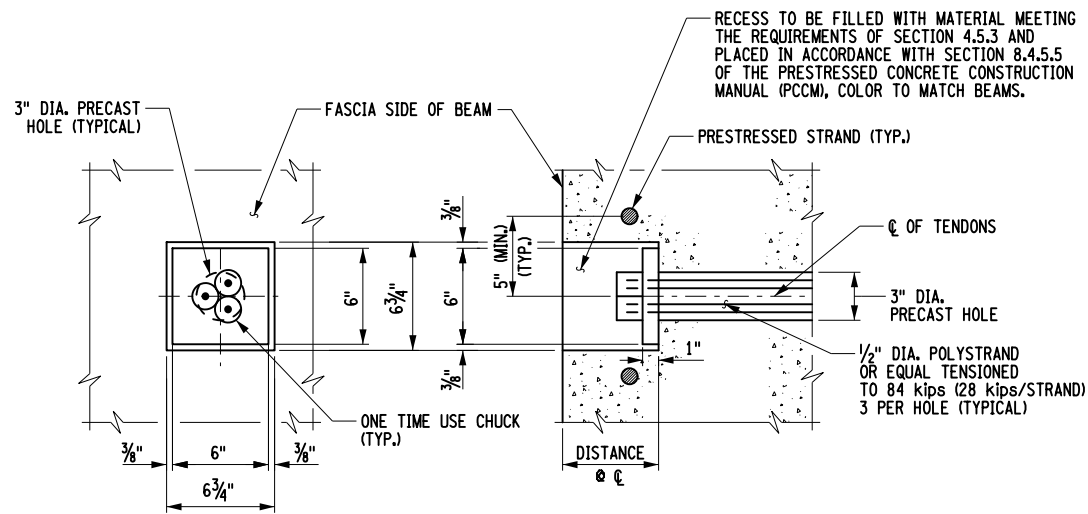
PLAN TRANSVERSE TENDON RECESS SKEW DETAIL



SECTION A-A



PLAN SHEAR KEY AT TRANSVERSE TENDON DETAIL



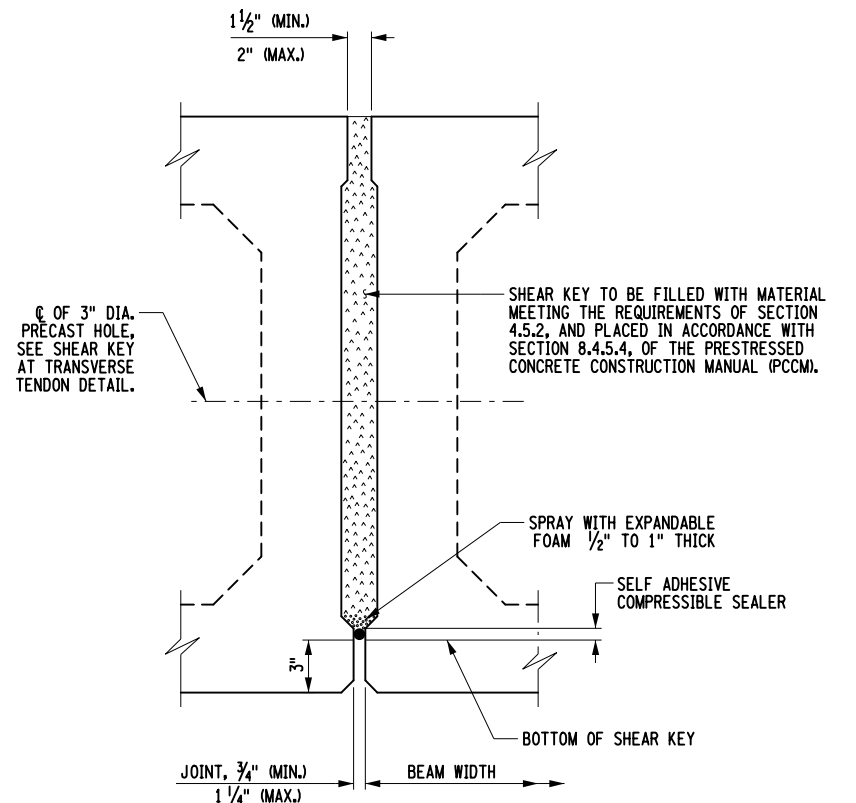
SECTION C-C

SECTION B-B

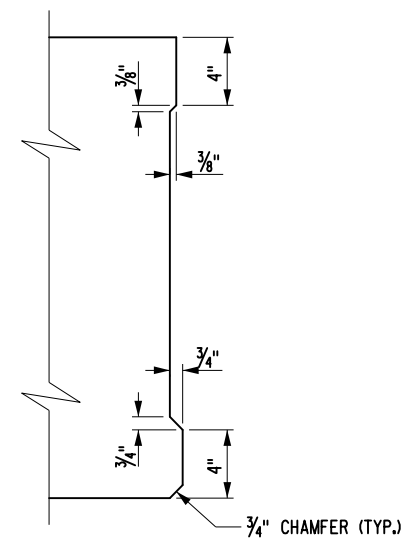
NOTES:
 6" x 1" x 6" GALVANIZED (ASTM A36) PLATES SHALL BE PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE TENDON IN ALL PLANES AND SHALL HAVE THREE HOLES TO ACCOMMODATE STRANDS.

NO SEALER APPLIED TO THE RECESS FOR TRANSVERSE TENDONS.

BAR REINFORCEMENT NOT SHOWN FOR CLARITY.



BOX BEAM SHEAR KEY DETAIL



SHEAR KEY RECESS DETAIL

NOTES:
 1. OMIT SHEAR KEY FROM OUTSIDE OF FASCIA BEAMS.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:

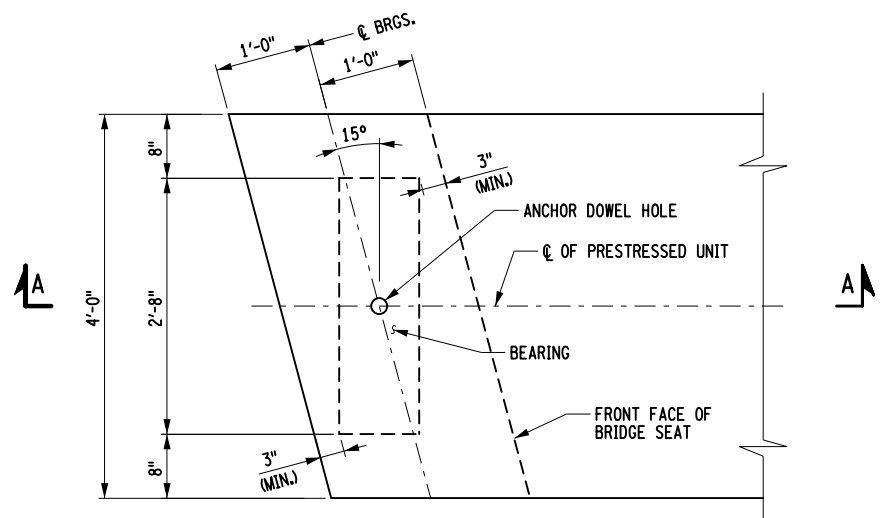


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C	3301700			D035818
	TOWN: ELIZABETHTOWN				MISCELLANEOUS BOX BEAM DETAILS	DRAWING NO. ST-19
	COUNTY: ESSEX	REGION: 1				WATER STREET OVER THE BRANCH
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.						



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 USER = gneddo

PROJECT MANAGER GWN
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 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS



BEARING PLACEMENT DETAILS

BEARING PLACEMENT DETAILS NOTES:

PREMOULDED RESILIENT JOINT FILLER SHALL MEET THE REQUIREMENTS OF 705-07 AND BE PAID FOR UNDER BEARING ITEM.

THE ENDS OF BEAMS AND ANCHOR DOWEL HOLES SHALL BE MADE VERTICAL $\pm 1/4$ " UNDER D.L. AND GRADE. ANCHOR DOWELS TO BE PAID FOR UNDER BEARING ITEM. DOWEL HOLE FILL MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ELASTOMERIC BEARING ITEM AND SHALL MEET MATERIAL REQUIREMENTS AS FOLLOWS:

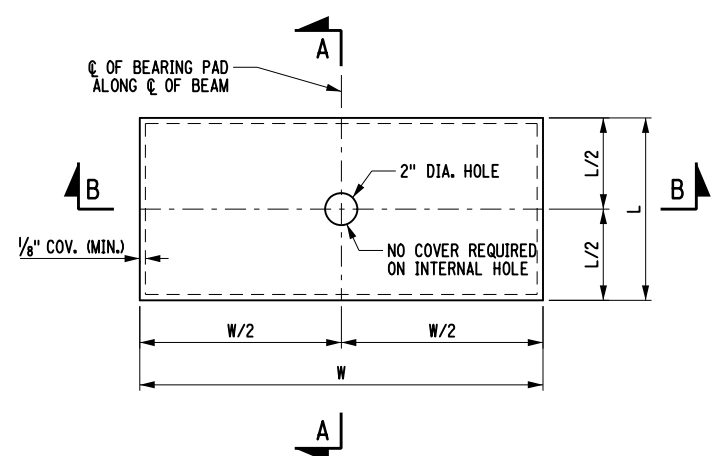
EXPANSION END MATERIAL SHALL MEET THE REQUIREMENTS OF N.Y.S. MAT. SPEC. 702-0700 - ASPHALT FILLER.

FIXED END MATERIAL OPTIONS:

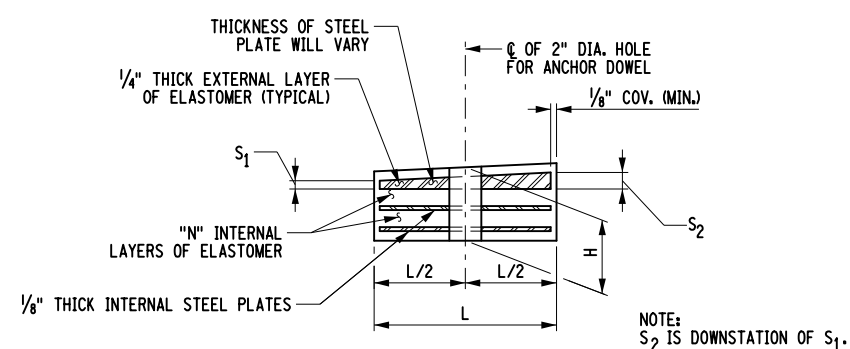
- N.Y.S. MAT. SPEC. 721-03 - EPOXY POLYSULFIDE GROUT WITH SAND **
- N.Y.S. MAT. SPEC. 721-01 - EPOXY RESIN SYSTEM WITH SAND **
- N.Y.S. MAT. SPEC. 701-05 - CONCRETE GROUTING MATERIAL
- N.Y.S. MAT. SPEC. 701-06 - CEMENT BASED GROUT MATERIALS FOR SHEAR KEYS.

** - MOISTURE FREE, SANDBLAST SAND SHALL BE ADDED IN THE RATIO OF (1) PART EPOXY TO (2) PARTS SAND.

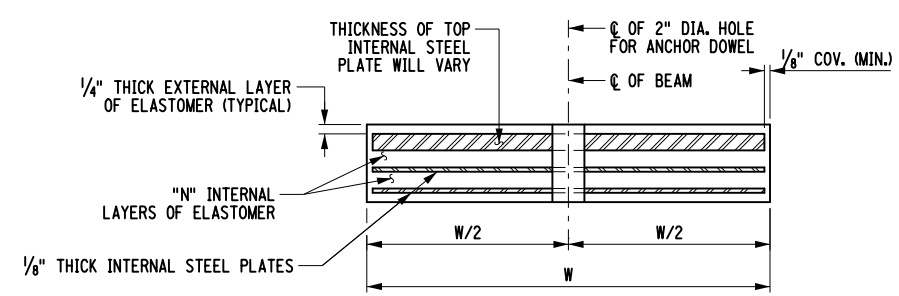
FOR EXPANSION ANCHOR DOWEL HOLE DETAILS, SEE BD-PCTE.



PLAN TYPICAL RECTANGULAR STEEL LAMINATED ELASTOMERIC BEARING (TYPE E.L.)



SECTION A-A



SECTION B-B

BEARING NOTES:

THE BEARINGS SHALL MEET THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.

ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.

INSTALLATION ALIGNMENT:

THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED $3/16$ in. THIS VARIATION SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF THE HIGHEST ELASTOMER SURFACE AND THE CENTERLINE OF THE LOWEST ELASTOMER SURFACE.

CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565-3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE N.Y.S. STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.

FOR TYPE E.L. BEARINGS:

ALL EXTERNAL ELASTOMER LAYERS ARE ONE-HALF THE THICKNESS OF THE INTERNAL ELASTOMER LAYERS.

STEEL LAMINATED ELASTOMERIC BEARING (TYPE E.L.) TABLE

LOCATION	FIX/EXP.	ITEM NO.	QUANTITY REQUIRED	D.L. + S.D.L. (kips)	L.L. WITHOUT IMPACT (kips)	TOTAL DESIGN REACTION (kips)	SHAPE FACTOR	ELASTOMER LAYER				hr t	COMP. AREA (SQ. In.)	SHEAR AREA (SQ. In.)	BEVELED LAYER		BRG. H	ANCHOR DOWEL DIAMETER
								THK/LAYER	NO. LAYERS	L	W				S ₁	S ₂		
B1 AND B8	-	565.1923	4	71.8	56.6	128.4	7.019	0.5	2	10	32	1.5	309.56	320.00	0.75	0.25	2.25	1.0
B2, B3, B4, B5, B6 AND B7	-	565.1923	12	70.6	48.8	119.4	7.019	0.5	2	10	32	1.5	309.56	320.00	0.25	0.75	2.25	1.0

TABLE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

S₂ IS DOWNSTATION OF S₁
H IS TAKEN AT THE CENTERLINE OF THE BEARING.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY ROUTE 10A
TOWN: ELIZABETHTOWN
COUNTY: ESSEX REGION: 1

PIN 1760.51
UTILITY QUALITY LEVEL C

BRIDGES 3301700

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

BEARING DETAILS

WATER STREET OVER THE BRANCH

CONTRACT NUMBER
D035818

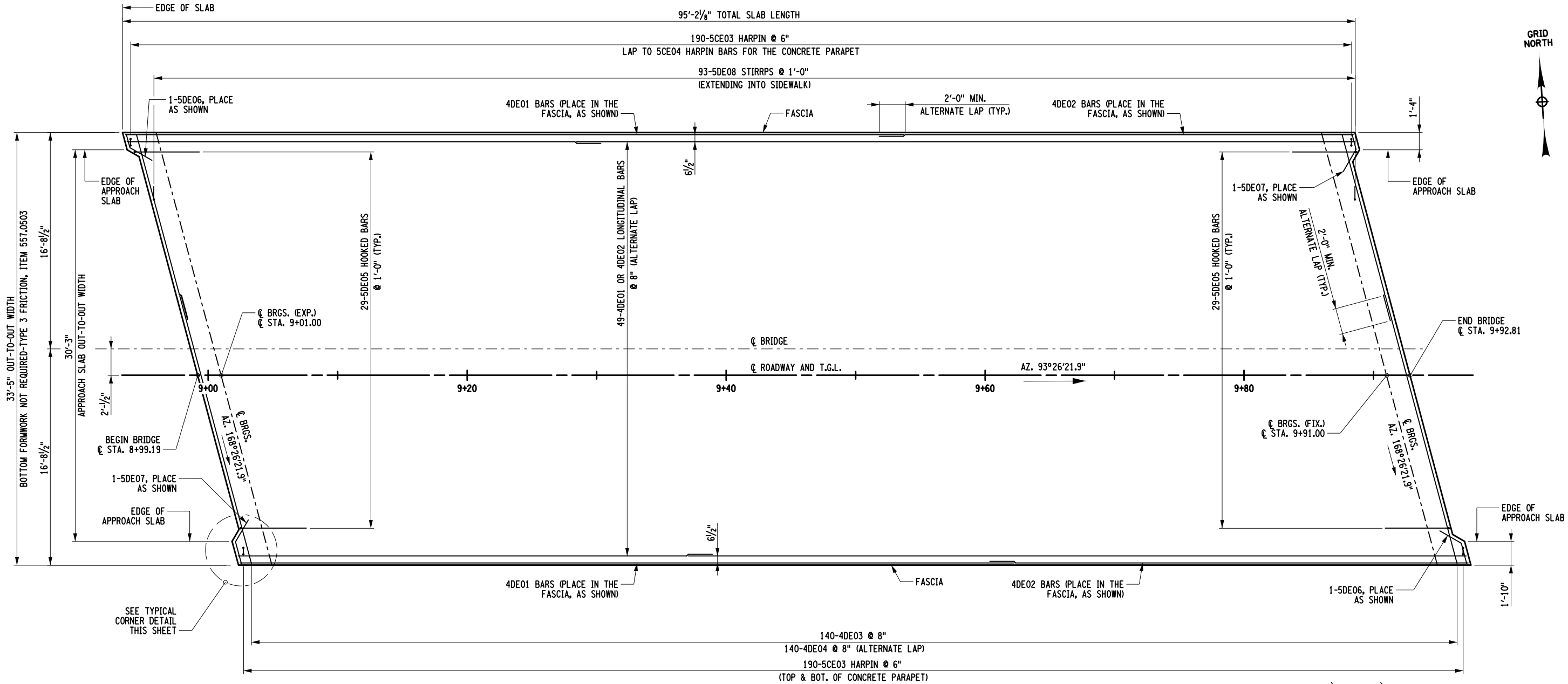
DRAWING NO. ST-20
SHEET NO. 45 OF 61

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.



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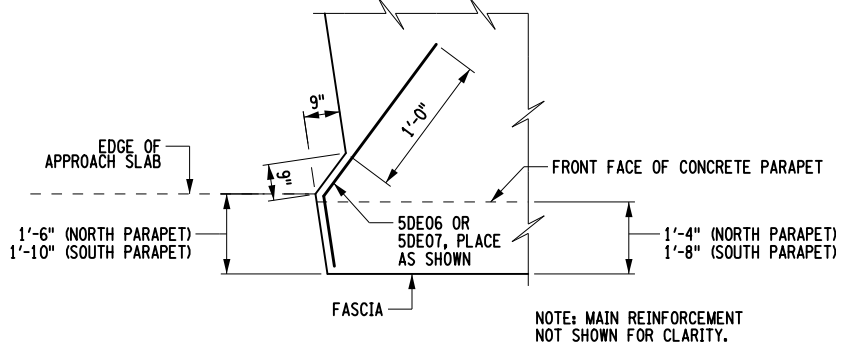
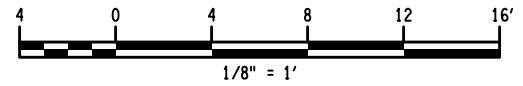
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 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS



DECK SLAB REINFORCEMENT PLAN

DECK SLAB ITEM TABLE		
LOCATION	LONGITUDINAL SAWCUT GROOVING, ITEM 558.02	PROTECTIVE SEALER, ITEM 559.18960118
DECK SLAB	260 SY	2809 SF

- NOTES:**
- TOP SURFACES OF NEW BRIDGE DECKS, APPROACH SLABS AND SIDEWALKS SHALL BE SEALED ACCORDING TO ITEM 559.18960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS. ONLY PENETRATING TYPE SEALERS SHALL BE APPLIED TO WALKING OR RIDING SURFACES.
 - 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.



TYPICAL SUPERSTRUCTURE SLAB CORNER DETAIL

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:

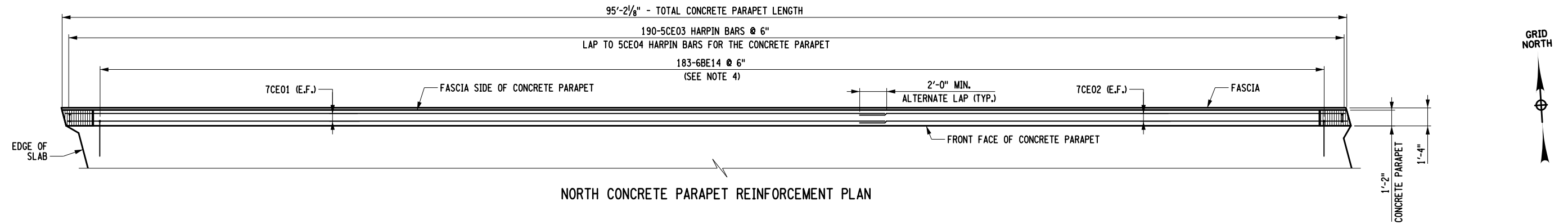


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				DECK SLAB REINFORCEMENT PLAN AND DETAILS WATER STREET OVER THE BRANCH	DRAWING NO. ST-21 SHEET NO. 46 OF 61
	TOWN: ELIZABETH TOWN					
	COUNTY: ESSEX	REGION: 1				

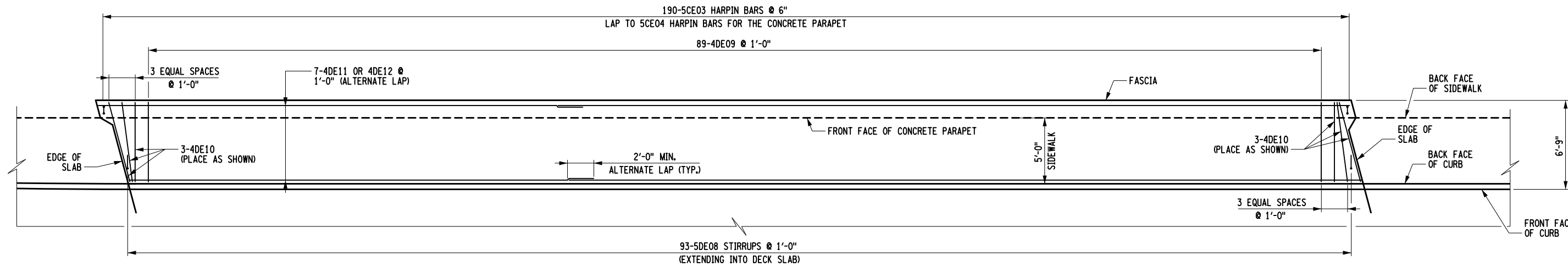
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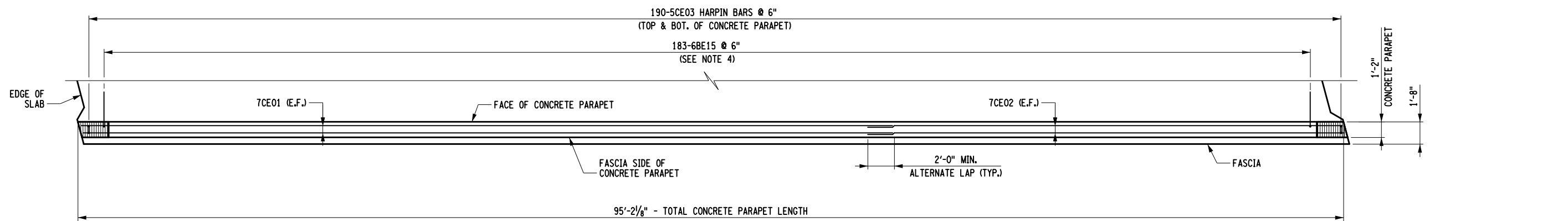
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NORTH CONCRETE PARAPET REINFORCEMENT PLAN



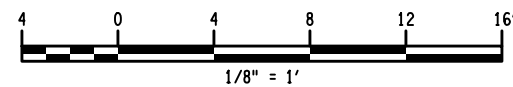
SIDEWALK REINFORCEMENT PLAN



SOUTH CONCRETE PARAPET REINFORCEMENT PLAN

NOTES:

- TOP SURFACES OF NEW BRIDGE DECKS, APPROACH SLABS AND SIDEWALKS SHALL BE SEALED ACCORDING TO ITEM 559.18960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS. ONLY PENETRATING TYPE SEALERS SHALL BE APPLIED TO WALKING OR RIDING SURFACES.
- SEE DWG. NO. ST-25 FOR SIDEWALK REINFORCING SECTION.
- SEE DWG. NO. ST-25 AND DWG. NO. ST-26 FOR PARAPET REINFORCING DETAILS.
- THIS BAR TO BE CAST INTO THE PRESTRESSED UNIT AND TIED TO BEAM REINFORCEMENT WHENEVER POSSIBLE.
- 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.



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C	3301700			
	TOWN: ELIZABETHTOWN				CONCRETE SIDEWALK AND PARAPET REINFORCEMENT PLAN	DRAWING NO. ST-22
	COUNTY: ESSEX	REGION: 1			WATER STREET OVER THE BRANCH	SHEET NO. 47 OF 61

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.

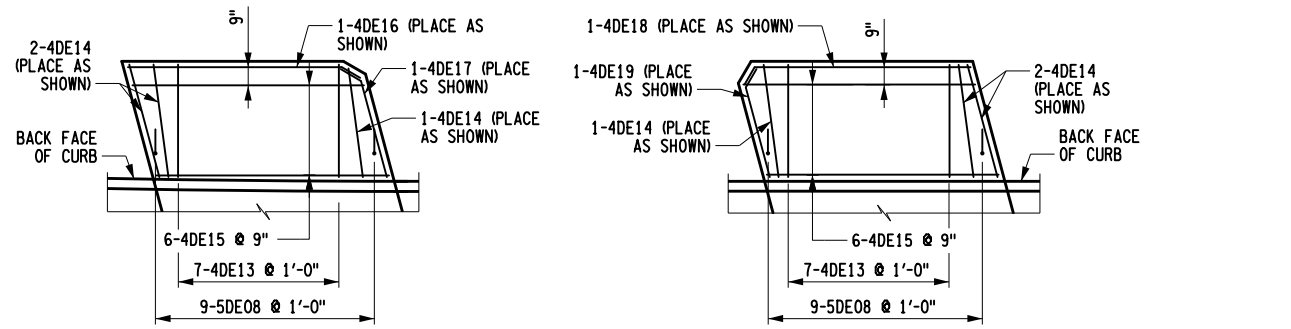


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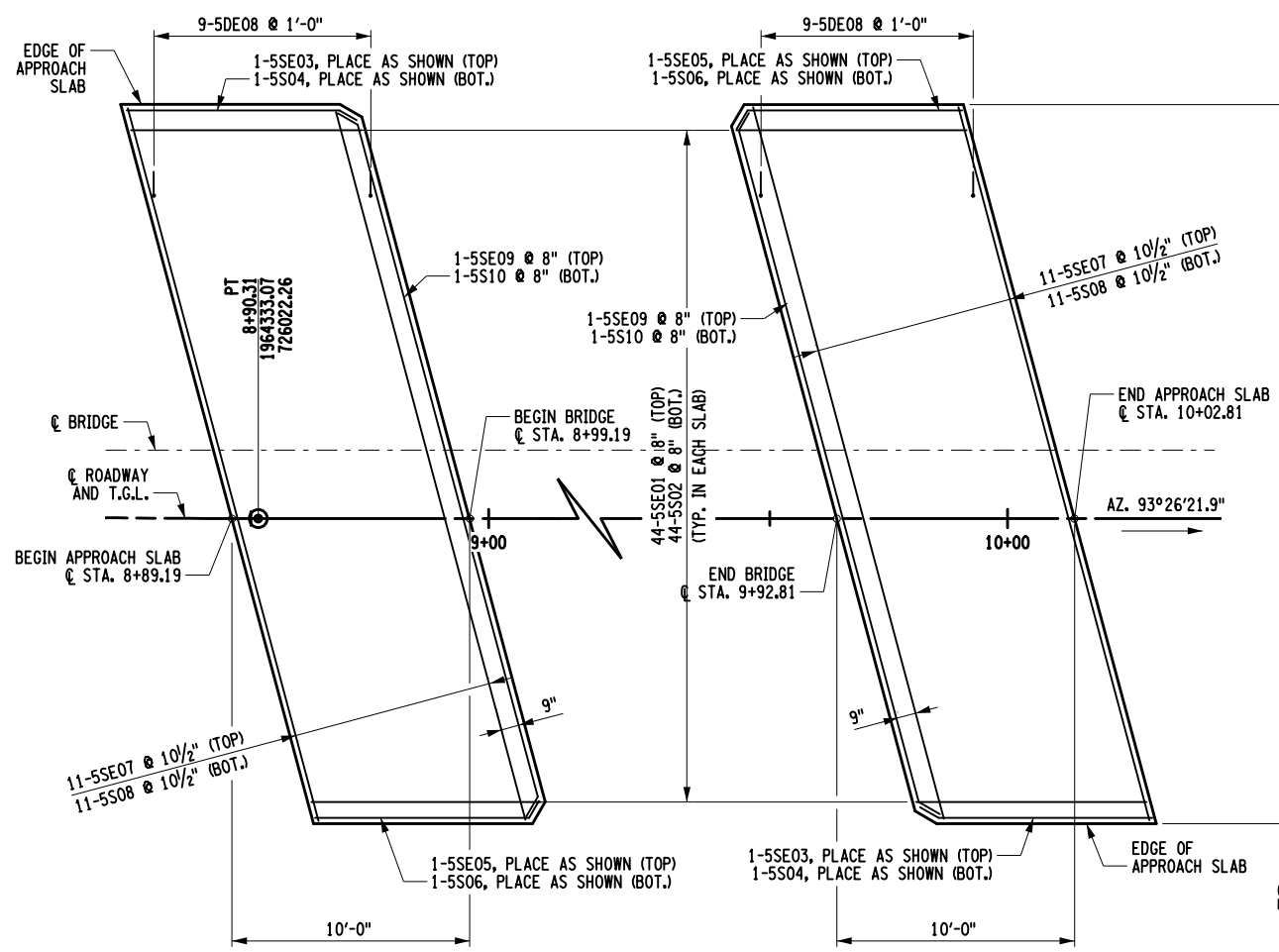
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DRAFTING JAT
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DESIGN JAT
JOB MANAGER GWN
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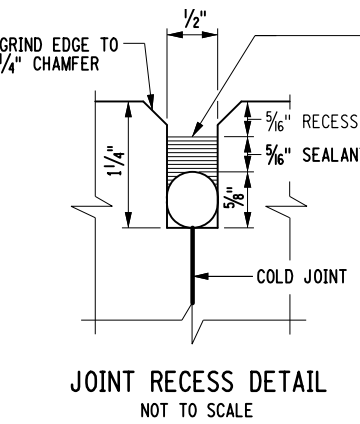


WEST SIDEWALK REINFORCEMENT AT APPROACH SLAB EAST



APPROACH SLAB PLAN

APPROACH SLAB ITEM TABLE		
LOCATION	LONGITUDINAL SAWCUT GROOVING, ITEM 558.02	PROTECTIVE SEALER, ITEM 559.18960118
BEGIN APPROACH SLAB	56 SY	605 SF
END APPROACH SLAB	56 SY	605 SF



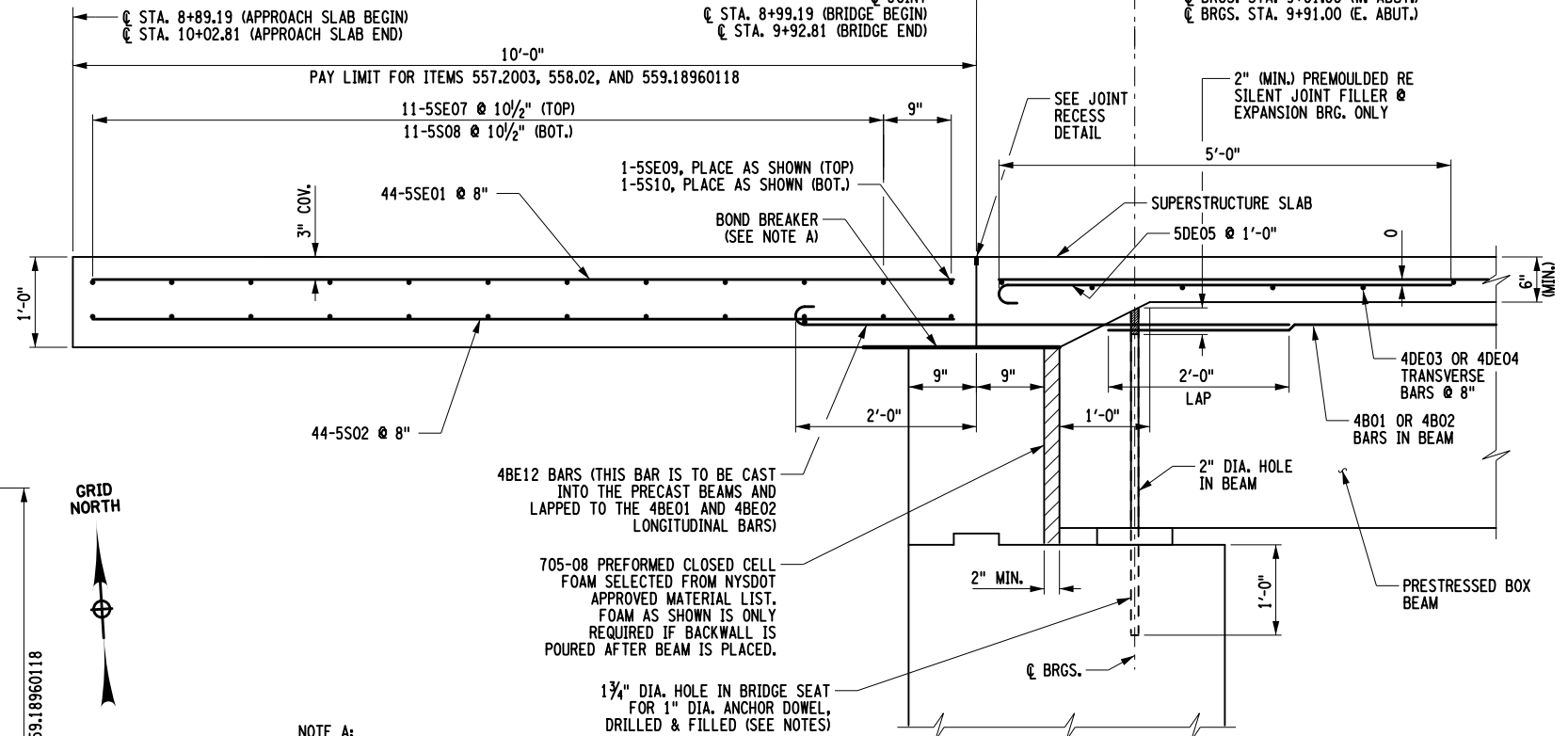
JOINT RECESS DETAIL NOT TO SCALE

PAY LIMIT FOR ITEM 557.2003 AND 559.18960118



30'-3"

FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, SILICONE 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 5/8" DIA. SOFT CLOSED CELL BACKER ROD IN THE BOTTOM OF THE RECESS. POUR THE SILICONE SEALANT TO A DEPTH OF APPROX. 5/16". PAYMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB.



APPROACH SLAB SECTION FOR JOINTLESS PRESTRESSED BOX BEAM SUPERSTRUCTURE

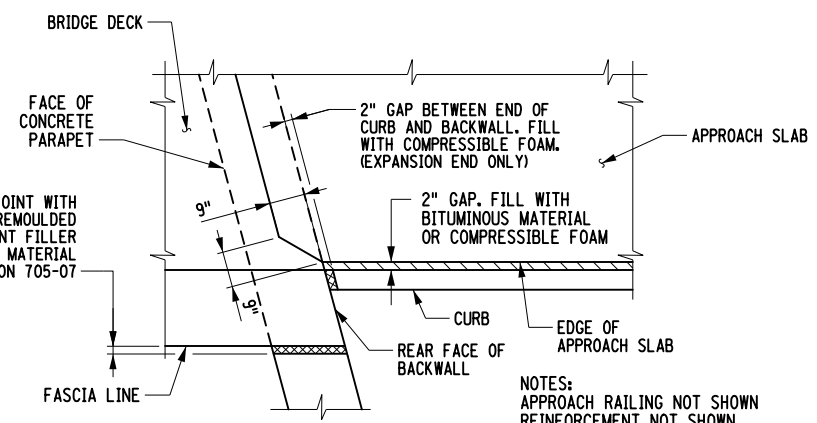
NOTE A:

TOP OF BACK WALL SHALL BE STEEL TROWEL FINISHED. SHEET GASKET (TREATED BOTH SIDES) MATERIAL SPECIFICATION 728-06, SHALL BE PLACED ON THE TOP OF BACKWALLS. TWO 1/16" THICK SHEETS SHALL BE USED, AND PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.

1 3/4" DIA. HOLE IN BRIDGE SEAT FOR 1" DIA. ANCHOR DOWEL, DRILLED & FILLED (SEE NOTES)

4BE12 BARS (THIS BAR IS TO BE CAST INTO THE PRECAST BEAMS AND LAPPED TO THE 4BE01 AND 4BE02 LONGITUDINAL BARS)

705-08 PREFORMED CLOSED CELL FOAM SELECTED FROM NYSDOT APPROVED MATERIAL LIST. FOAM AS SHOWN IS ONLY REQUIRED IF BACKWALL IS POURED AFTER BEAM IS PLACED.



SOUTHEAST AND SOUTHWEST APPROACH SLAB DETAIL

NOTES:

- ALL REINFORCEMENT SHALL HAVE 3" COVER UNLESS OTHERWISE NOTED.
- TOP SURFACES OF NEW BRIDGE DECKS, APPROACH SLABS AND SIDEWALKS SHALL BE SEALED ACCORDING TO ITEM 559.18960118, PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS. ONLY PENETRATION TYPE SEALERS SHALL BE APPLIED TO WALKING OR RIDING SURFACES.
- 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.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:

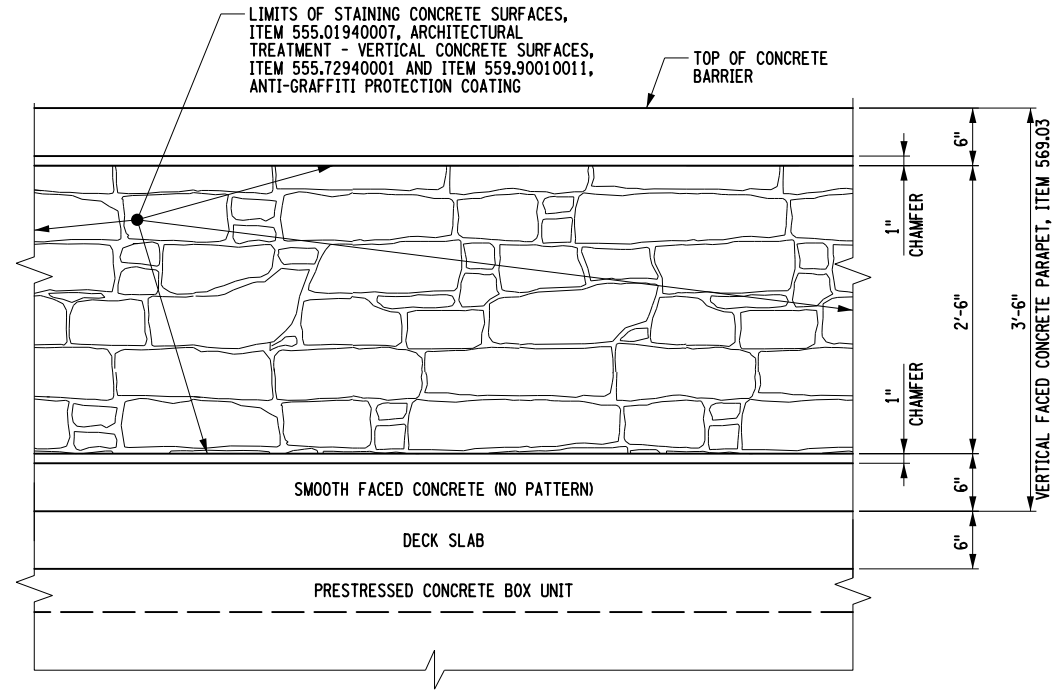


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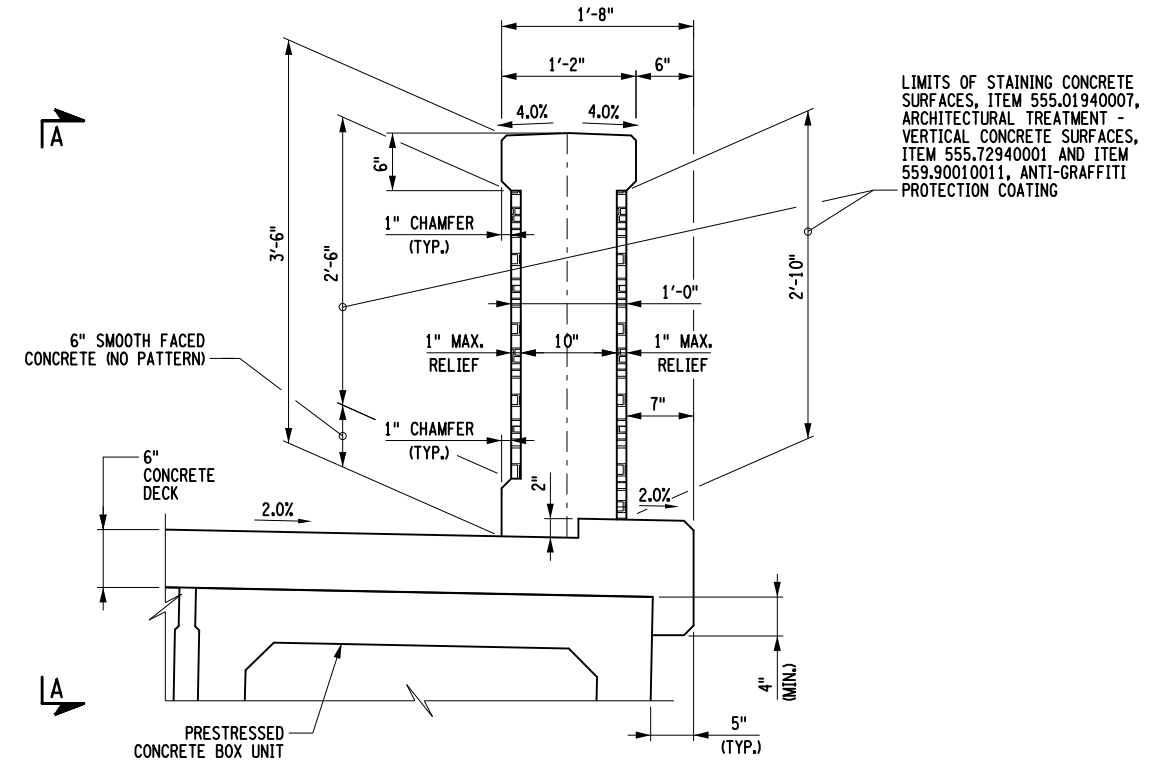
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C			APPROACH SLAB REINFORCING PLAN AND DETAILS WATER STREET OVER THE BRANCH	DRAWING NO. ST-23 SHEET NO. 48 OF 61
TOWN: ELIZABETHTOWN					
COUNTY: ESSEX	REGION: 1				

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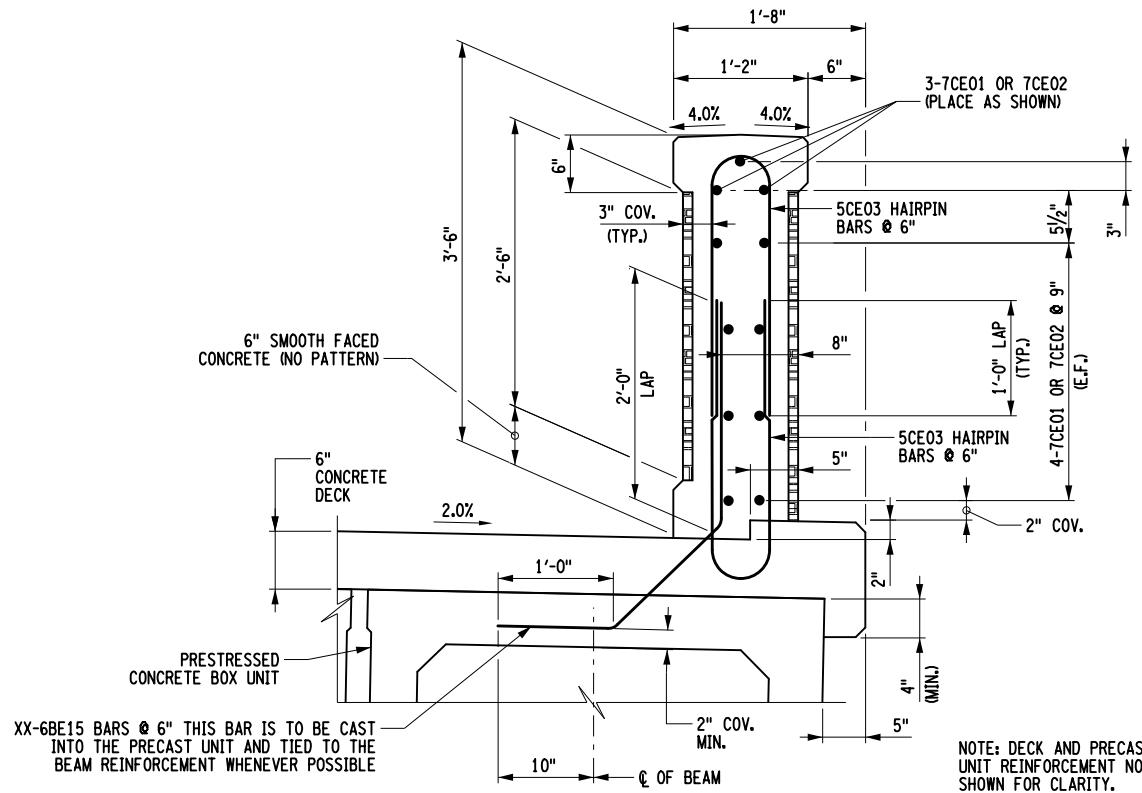
SOUTH CONCRETE PARAPET ELEVATION A-A



SOUTH CONCRETE PARAPET SECTION

ARCHITECTURAL TREATMENT NOTES:

- THE PATTERN FOR THE ARCHITECTURAL TREATMENT SHALL BE ADIRONDACK DRY STACK.
- BEFORE CASTING ARCHITECTURAL CONCRETE, THE CONTRACTOR SHALL PRODUCE A SAMPLE PANEL TO THE ENGINEER AND COUNTY FOR APPROVAL. PANEL SHALL BE CAST VERTICALLY APPROXIMATELY 4'-0" X 4'-0" X 6" MINIMUM TO DEMONSTRATE THE EXPECTED RANGE OF FINISH, COLOR AND TEXTURE VARIATIONS. EXAMPLES OF NATURAL ROCK PATTERNS AND COLORS WITHIN THE SURROUNDING AREA CAN BE FOUND IN THE PROJECT MANUAL SUBSECTION SPECIAL NOTES.
- THE CONTRACTOR SHALL OBTAIN EACH COLOR, SIZE, TYPE, AND VARIETY OF CONCRETE MATERIAL AND CONCRETE MIX FROM ONE MANUFACTURER WITH RESOURCES TO PROVIDE CAST-IN-PLACE ARCHITECTURAL CONCRETE OF CONSISTENT QUALITY IN APPEARANCE AND PHYSICAL PROPERTIES.
- STEEL, GLASS-FIBER-REINFORCED PLASTIC, OR OTHER APPROVED NON-ABSORPTIVE FORM-FACING PANEL MATERIALS SHALL BE USED THAT WILL PROVIDE CONTINUOUS, TRUE, AND SMOOTH ARCHITECTURAL CONCRETE SURFACES. FORMS SHALL BE FURNISHED IN LARGEST PRACTICABLE SIZES TO MINIMIZE NUMBER OF JOINTS.
- FORMS AND ADJACENT SURFACES TO RECEIVE CONCRETE SHALL BE CLEANED, CHIPS, WOOD, SANDUST, DIRT, AND OTHER DEBRIS SHALL BE REMOVED JUST BEFORE PLACING CONCRETE.
- SEAL FORM JOINTS AND PENETRATIONS SHALL BE SEALED AT FORM TIES WITH FORM JOINT TAPE OR FORM JOINT SEALANT TO PREVENT MORTAR LEAKS.
- CONTACT SURFACES OF FORMS SHALL BE COATED WITH FORM-RELEASE AGENT, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, BEFORE PLACING REINFORCEMENT.
- CONTACT SURFACES OF FORMS SHALL BE COATED WITH SURFACE RETARDER, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, BEFORE PLACING REINFORCEMENT.
- FORM LINERS SHALL BE PLACED ACCURATELY TO PROVIDE FINISHED SURFACE TEXTURE INDICATED. SOLID BACKING SHALL BE PROVIDED AND ATTACHED SECURELY TO PREVENT DEFLECTION AND MAINTAIN STABILITY OF LINERS DURING CONCRETING. FORM LINERS SHALL BE PREVENTED FROM SAGGING AND STRETCHING IN HOT WEATHER. JOINTS OF FORM LINERS AND FORM LINER ACCESSORIES SHALL BE SEALED TO PREVENT MORTAR LEAKS. FORM LINER SHALL BE COATED WITH FORM-RELEASE AGENT.
- A SMOOTH-FORMED FINISH IS DESIRED. ANY CONCRETE TEXTURE IMPARTED BY FORM-FACING MATERIAL SHALL BE ARRANGED IN AN ORDERLY AND SYMMETRICAL MANNER WITH A MINIMUM OF SEAMS. TIE HOLES AND DEFECTIVE AREAS SHALL BE REPAIRED IN A MANNER SATISFACTORY TO THE ENGINEER. FINS AND OTHER PROJECTIONS EXCEEDING 1/8" IN HEIGHT SHALL BE REMOVED.
- PROTECT CAST-IN-PLACE ARCHITECTURAL CONCRETE FROM STAINING, LAITANCE, AND CONTAMINATION DURING REMAINDER OF CONSTRUCTION PERIOD.
- CLEAN CAST-IN-PLACE ARCHITECTURAL CONCRETE SURFACES AFTER FINISH TREATMENT TO REMOVE STAINS, MARKINGS, DUST, AND DEBRIS.
- WASH AND RINSE SURFACES ACCORDING TO CONCRETE FINISH APPLICATOR'S WRITTEN RECOMMENDATIONS. PROTECT OTHER WORK FROM STAINING OR DAMAGE DUE TO CLEANING OPERATIONS. DO NOT USE CLEANING MATERIALS OR PROCESSES THAT COULD CHANGE THE APPEARANCE OF CAST-IN-PLACE ARCHITECTURAL CONCRETE FINISHES.



SOUTH CONCRETE PARAPET REINFORCEMENT SECTION

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				CONCRETE PARAPET DETAILS (SOUTH PARAPET)	DRAWING NO. ST-26
	TOWN: ELIZABETHTOWN				WATER STREET OVER THE BRANCH	SHEET NO. 51 OF 61
	COUNTY: ESSEX	REGION: 1				

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.



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DESIGN JAT

JOB MANAGER GWN

DESIGN SUPERVISOR MTS

NOTES:

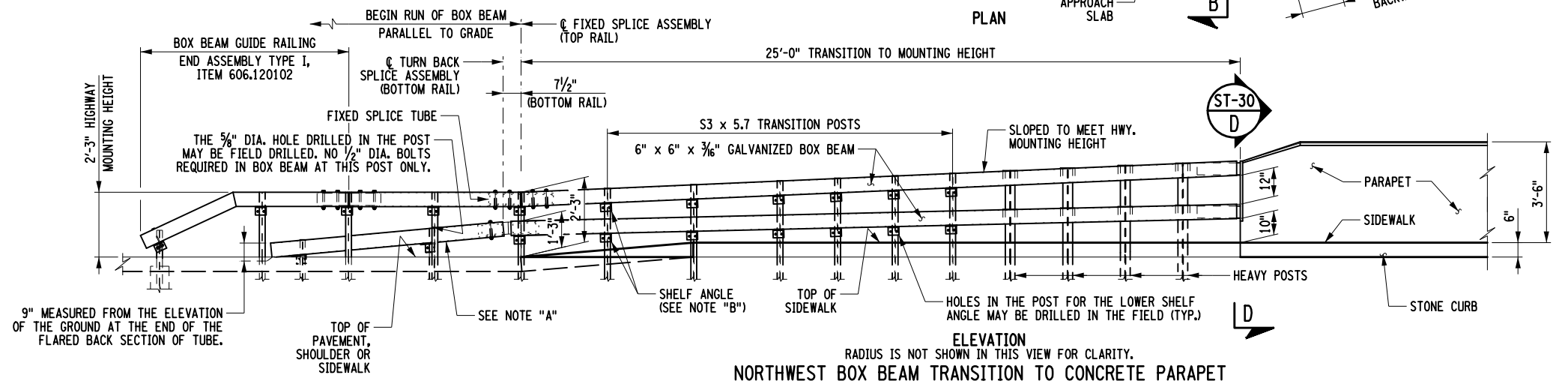
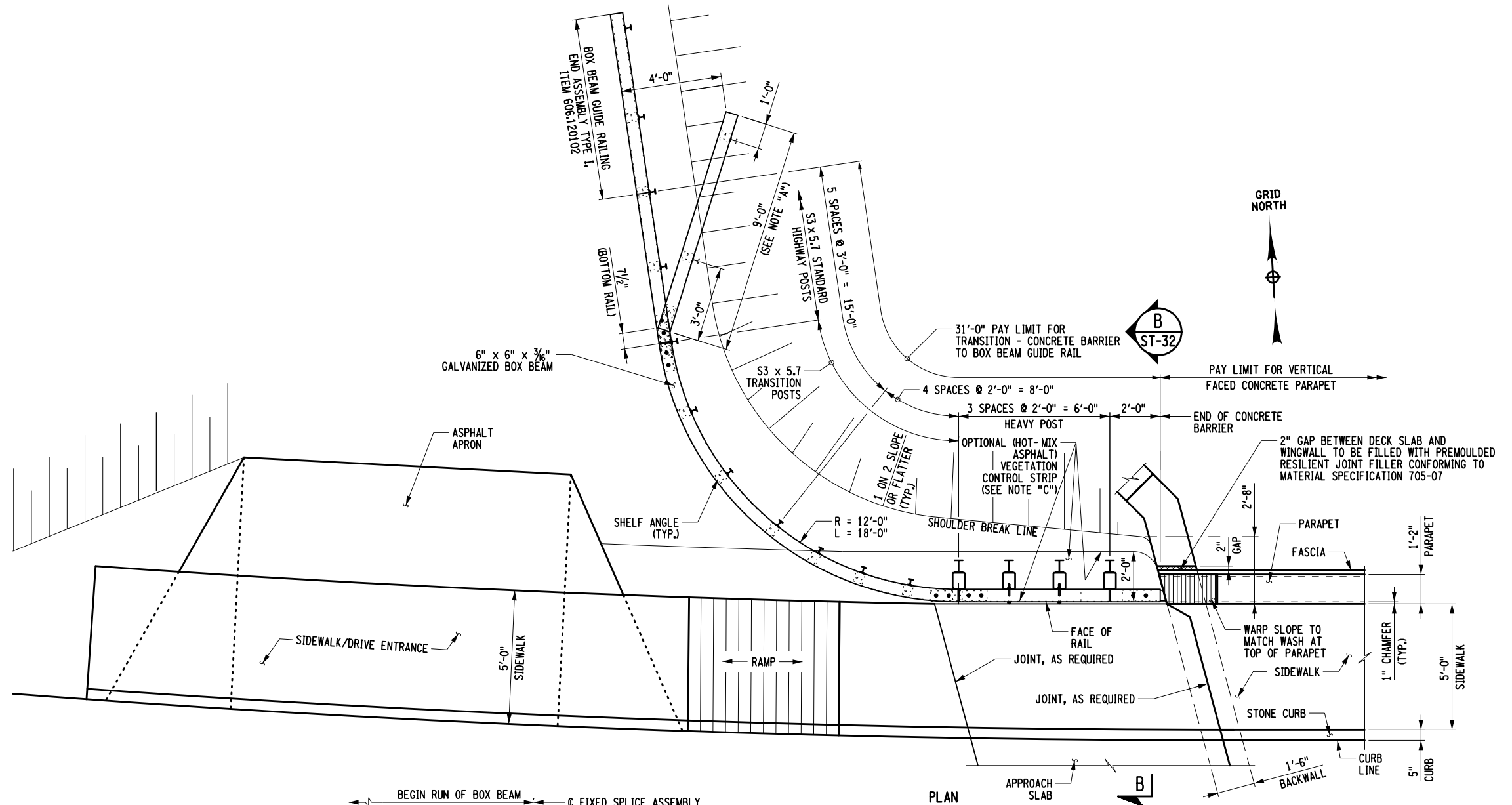
- FOR DETAILS OF BOX BEAM GUIDE RAILING, SEE CURRENT STANDARD SHEETS.
- FOR DETAILS OF BRIDGE CONCRETE PARAPET, SEE DWG. NO. ST-25 AND DWG. NO. ST-26.
- ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
- BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB.).
- 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.

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 (HOT-VMIX ASPHALT) VEGETATION CONTROL STRIP WITH THE SAME MATERIAL AS IN THE STABILIZED SHOULDER. PAYMENT WILL BE MADE UNDER STABILIZED SHOULDER ITEM.

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.



AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

COUNTY ROUTE 10A

TOWN: ELIZABETHTOWN

COUNTY: ESSEX

REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C

BRIDGES
 3301700

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

RAILING DETAILS
 (1 OF 7)
 WATER STREET
 OVER
 THE BRANCH

CONTRACT NUMBER
 D035818

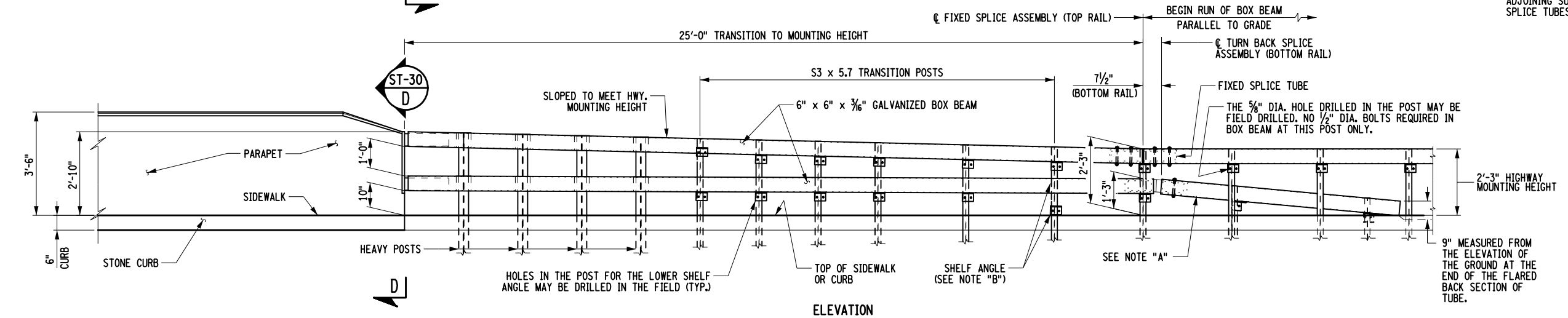
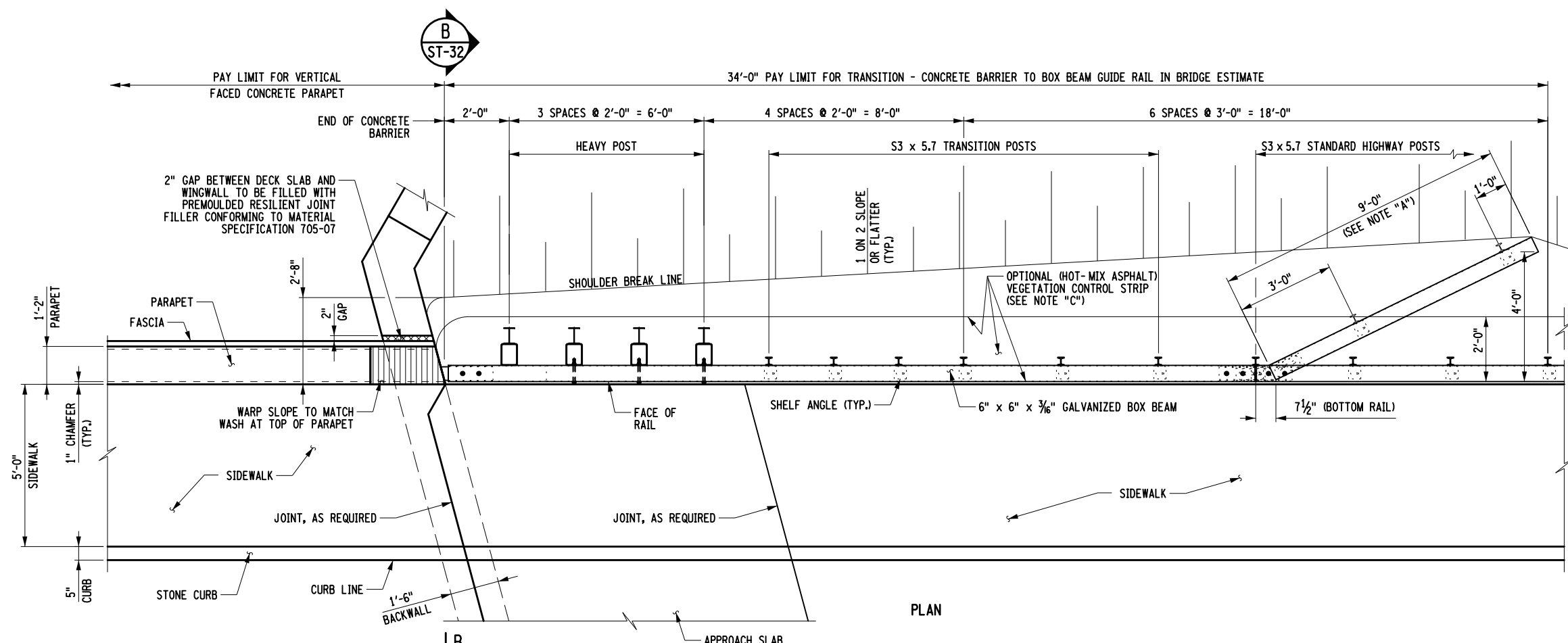
DRAWING NO. ST-27
 SHEET NO. 52 OF 61

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.



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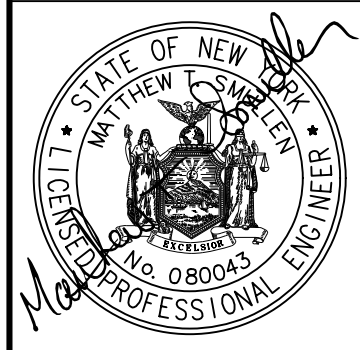
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 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN



- 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 (HOT-VMIX ASPHALT) VEGETATION CONTROL STRIP WITH THE SAME MATERIAL AS IN THE STABILIZED SHOULDER. PAYMENT WILL BE MADE UNDER STABILIZED SHOULDER ITEM.
- 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.

- NOTES:
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AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021



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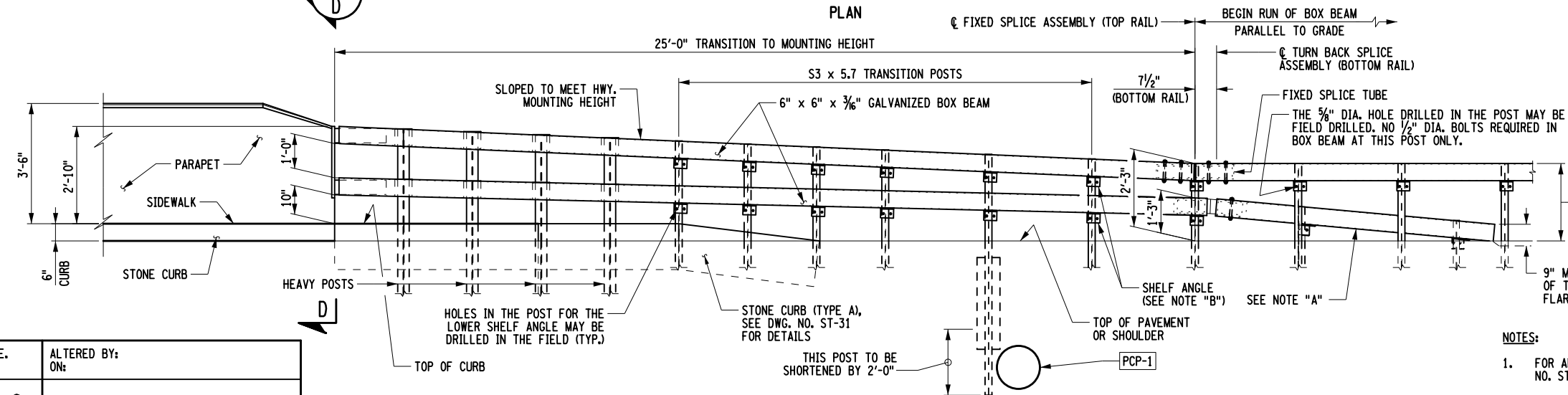
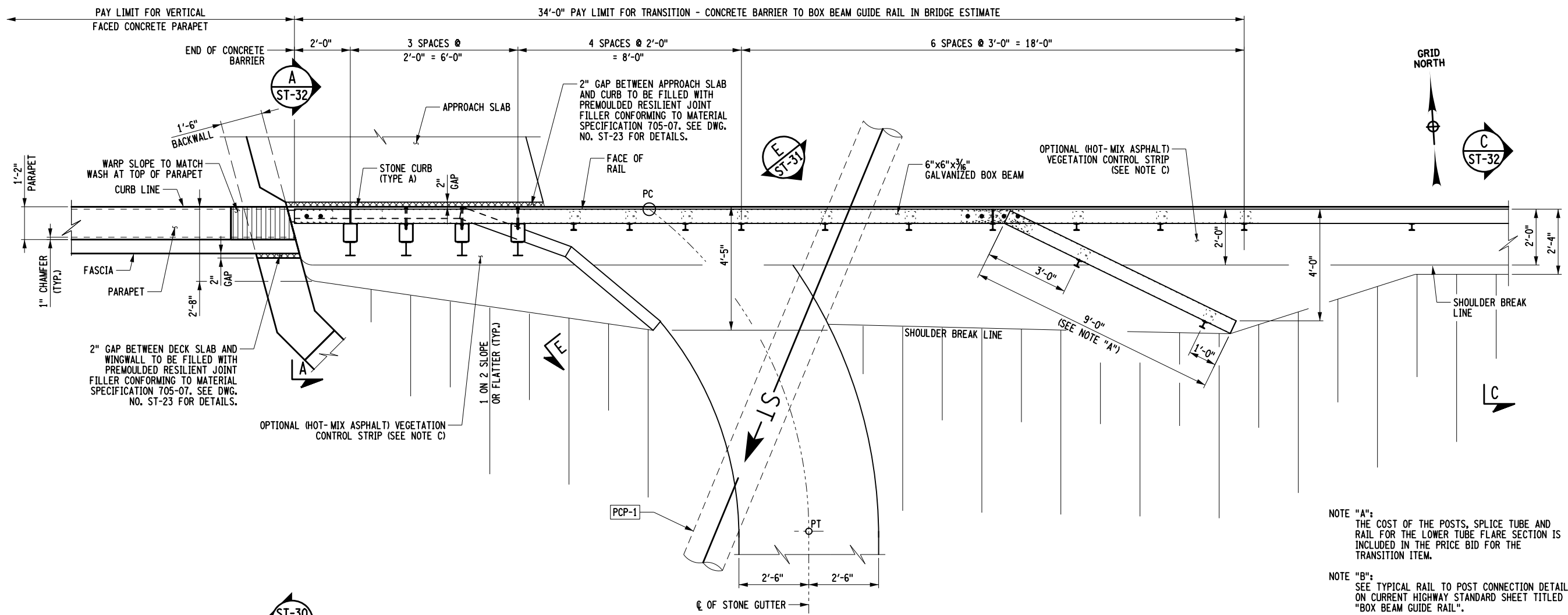
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	COUNTY ROUTE 10A				RAILING DETAILS (2 OF 7) WATER STREET OVER THE BRANCH	DRAWING NO. ST-28
	TOWN: ELIZABETHTOWN					SHEET NO. 53 OF 61
	COUNTY: ESSEX	REGION: 1				

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PROJECT MANAGER GWN
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 DRAFTING JAT
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 DESIGN SUPERVISOR MTS



- 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":
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- NOTES:
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AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

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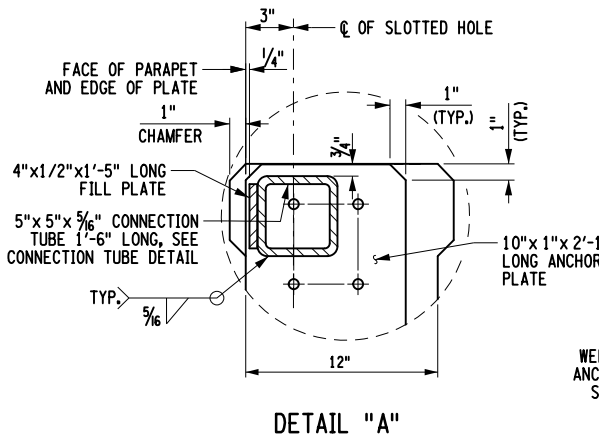
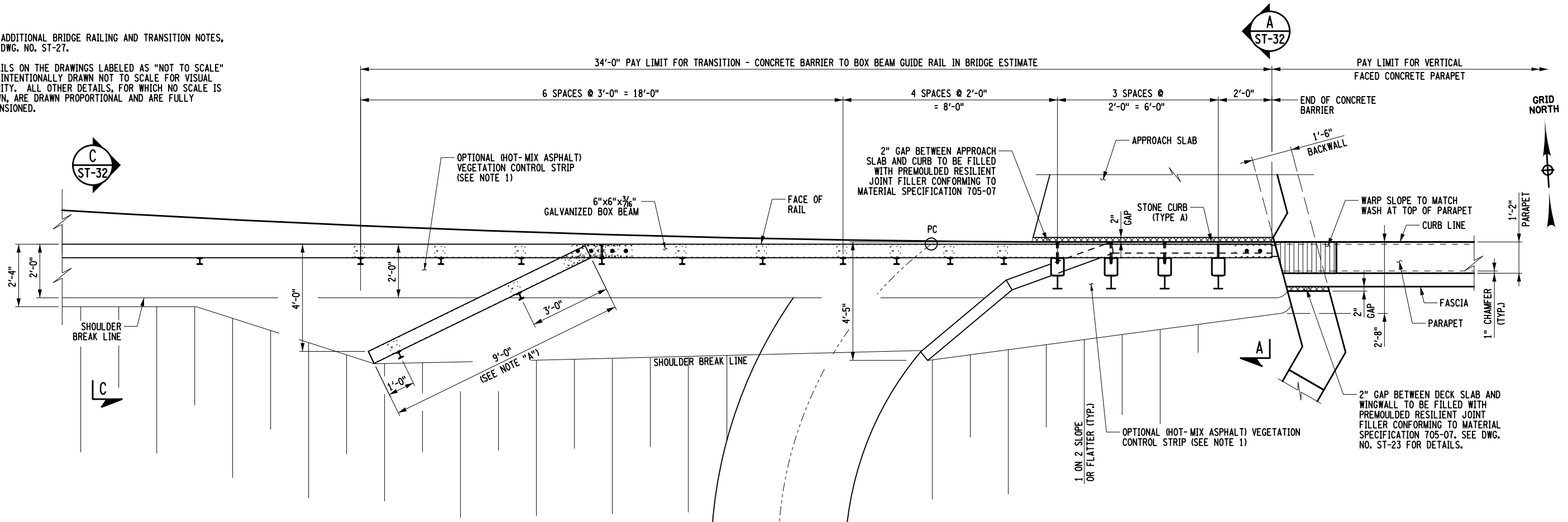
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	COUNTY ROUTE 10A	UTILITY QUALITY LEVEL C	3301700		
	TOWN: ELIZABETHTOWN	REGION: 1	CULVERTS		
	COUNTY: ESSEX				
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RAILING DETAILS (3 OF 7)		DRAWING NO. ST-29 SHEET NO. 54 OF 61
WATER STREET OVER THE BRANCH		

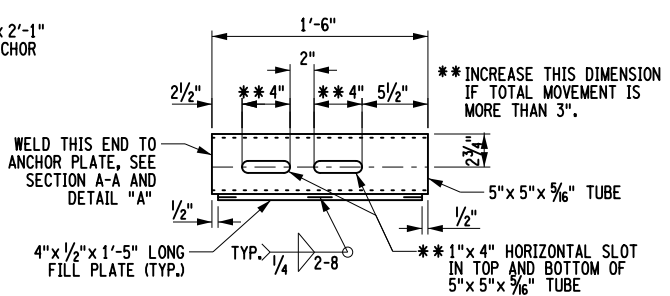


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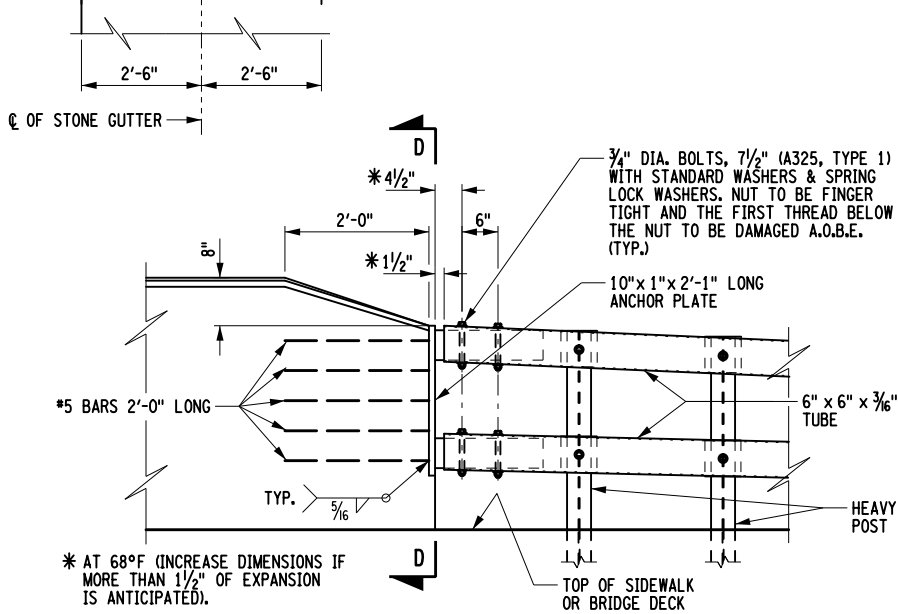
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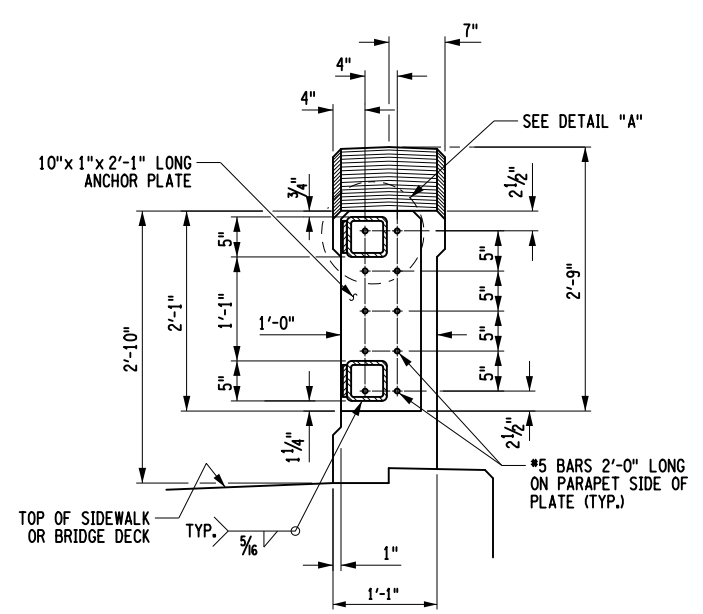
PLAN
SOUTHWEST BOX BEAM TRANSITION TO CONCRETE PARAPET



PLAN
CONNECTION TUBE DETAIL



ELEVATION OF END CONNECTION



SECTION D-D

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
COUNTY ROUTE 10A
TOWN: ELIZABETHTOWN
COUNTY: ESSEX REGION: 1

PIN 1760.51
UTILITY QUALITY LEVEL C

BRIDGES
3301700

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

RAILING DETAILS
(4 OF 7)
WATER STREET
OVER
THE BRANCH

CONTRACT NUMBER
D035818

DRAWING NO. ST-30
SHEET NO. 55 OF 61

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.

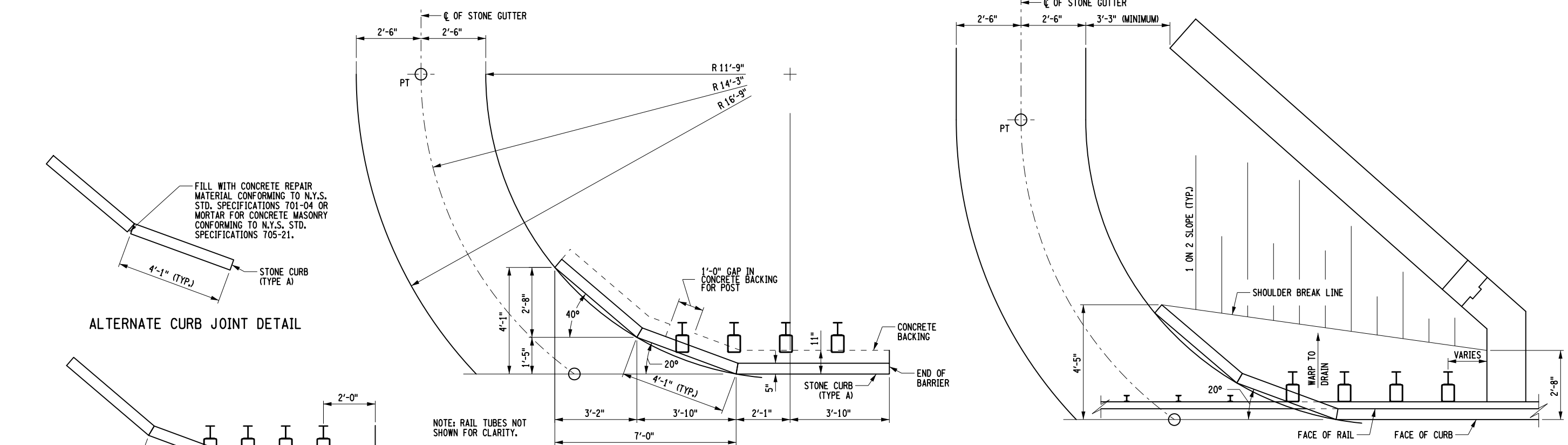


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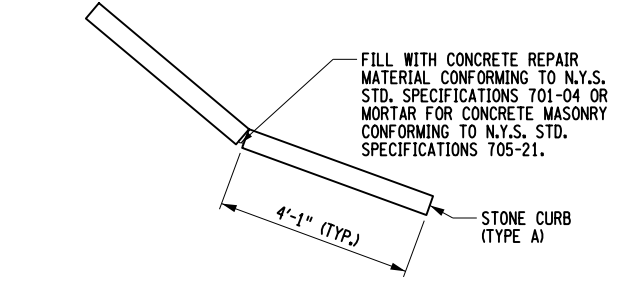
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CHECK GWN
DRAFTING JAT
DESIGN JAT
CHECK GWN
DESIGN JAT
JOB MANAGER GWN
DESIGN SUPERVISOR MTS

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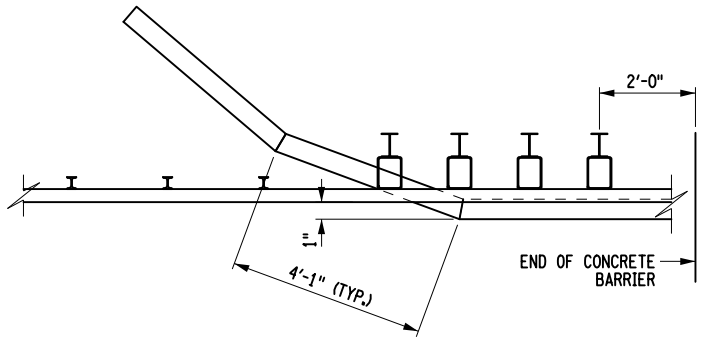
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 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS



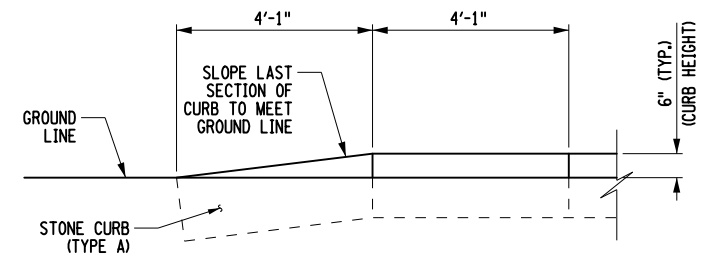
LAYOUT OF DRAINAGE CURBING AND STONE GUTTER



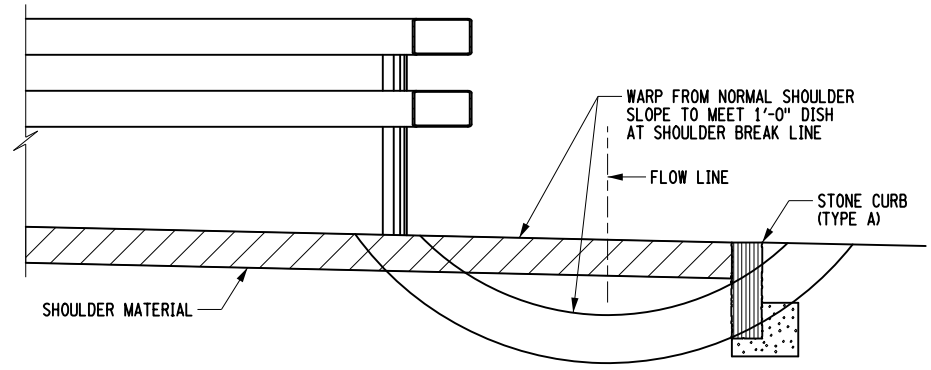
ALTERNATE CURB JOINT DETAIL



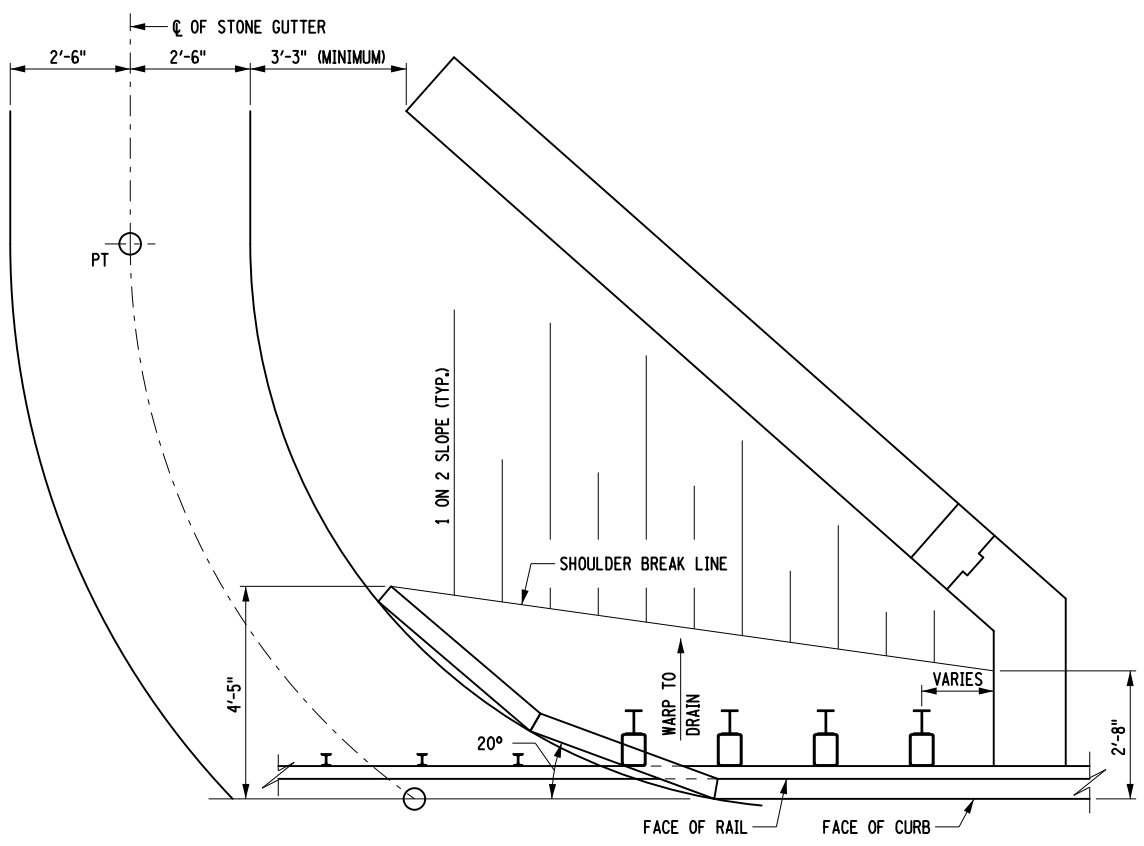
DRAINAGE CURB OFFSET FOR CONCRETE BARRIER



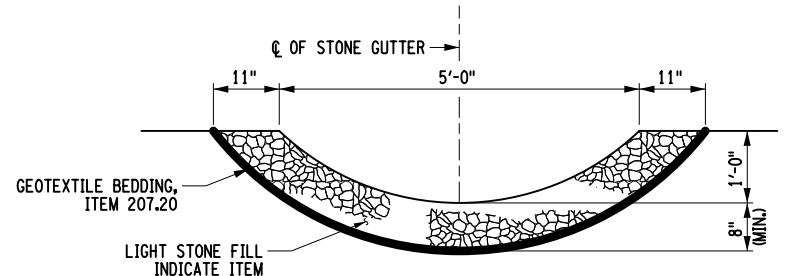
ELEVATION OF CURB TAPER



SECTION E-E



DRAINAGE FOR FLARED WINGWALL



SECTION THRU STONE GUTTER

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:

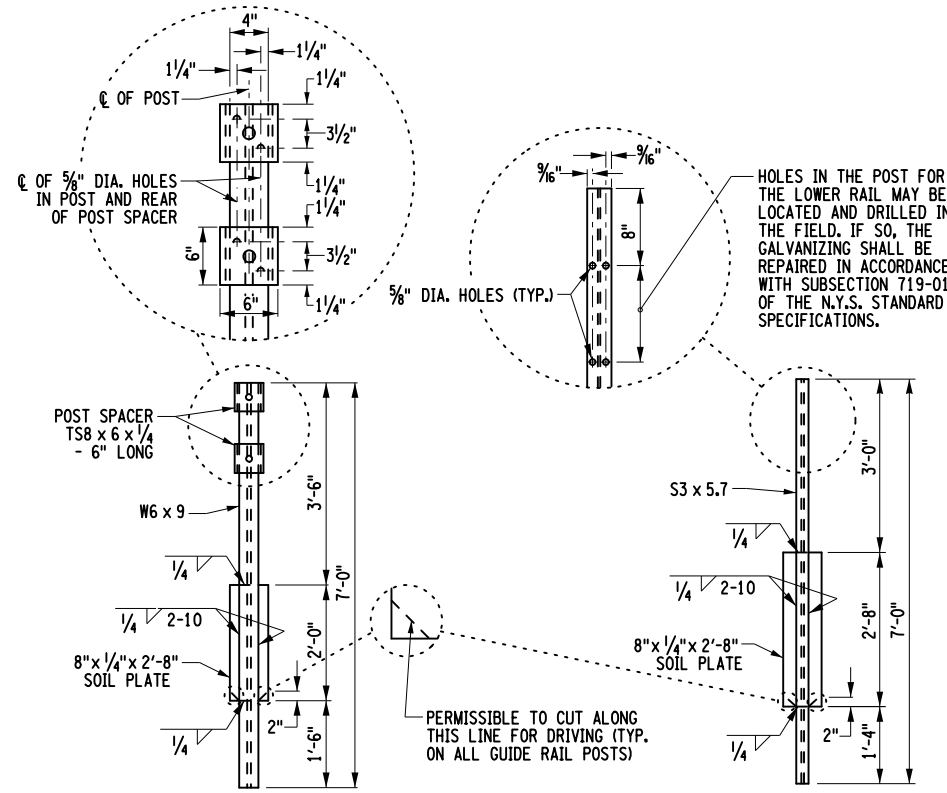
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				RAILING DETAILS (5 OF 7) WATER STREET OVER THE BRANCH	DRAWING NO. ST-31
	TOWN: ELIZABETHTOWN					SHEET NO. 56 OF 61
	COUNTY: ESSEX	REGION: 1				

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.



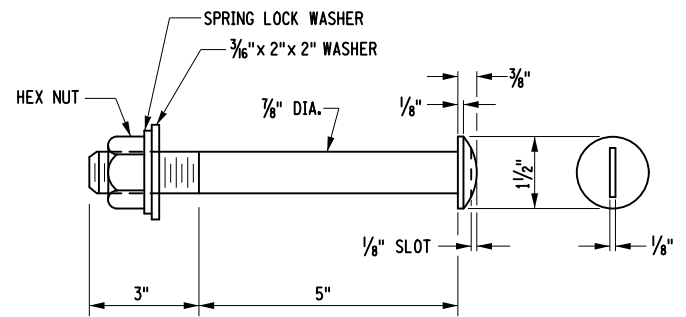
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 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS

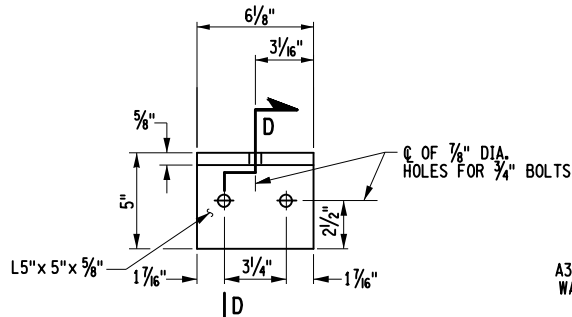


HEAVY POST
NOT TO SCALE

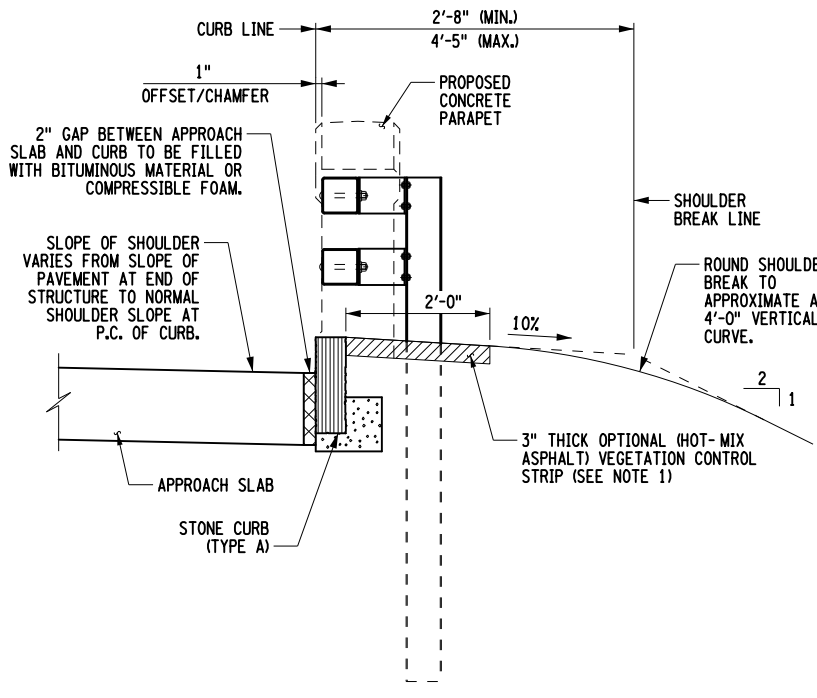
TRANSITION POST
NOT TO SCALE



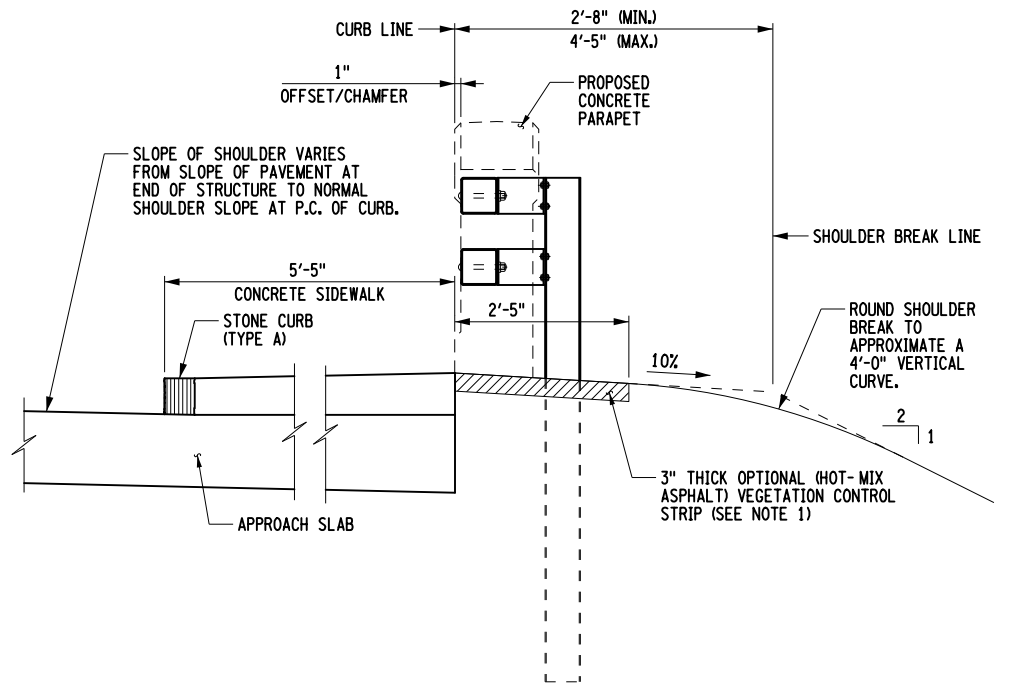
ROUND HEAD BOLT



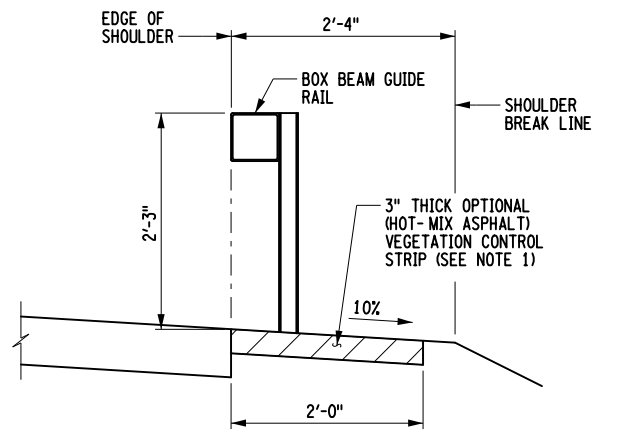
SECTION D-D
RAILING ANGLE DETAILS



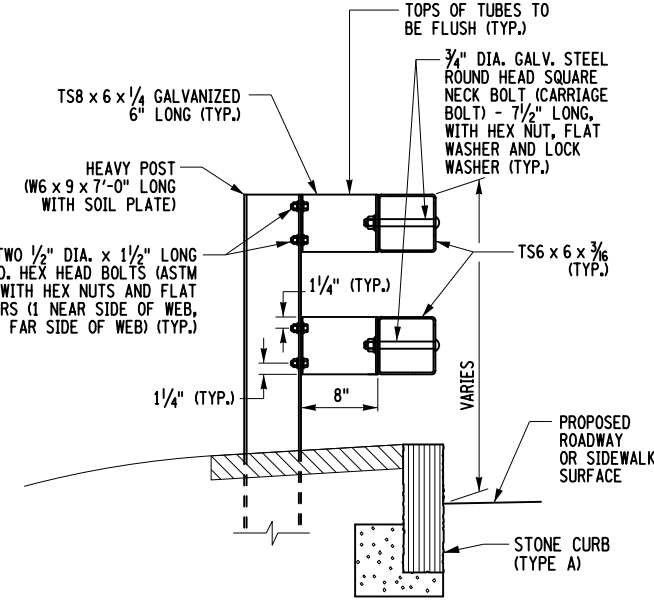
SECTION A-A



SECTION B-B



SECTION C-C



HEAVY POST ELEVATION

- NOTES:**
- ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
 - BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB.).
 - 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.
- 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 THIS AREA WITH THE SAME MATERIAL USED IN THE STABILIZED SHOULDER. PAYMENT WILL BE MADE UNDER THE SHOULDER MATERIAL ITEM.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



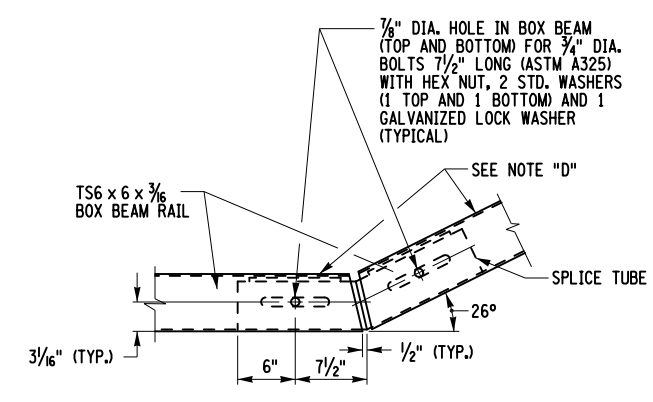
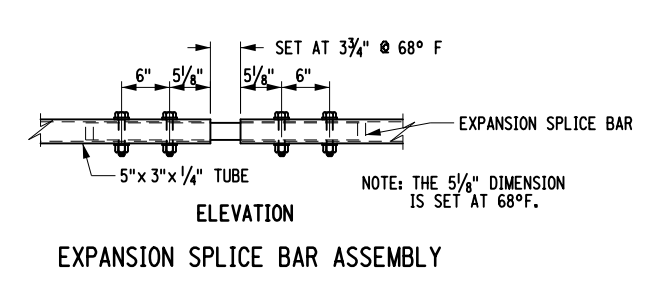
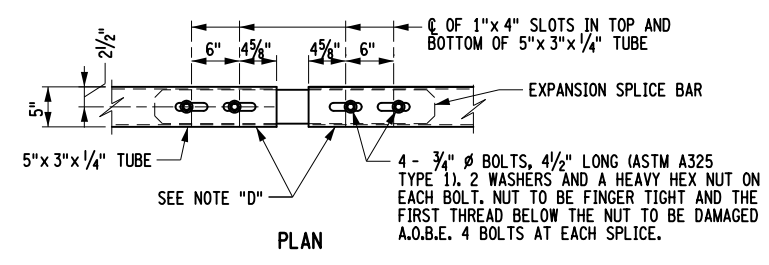
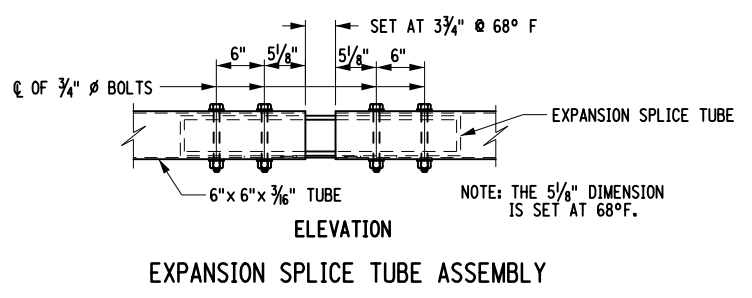
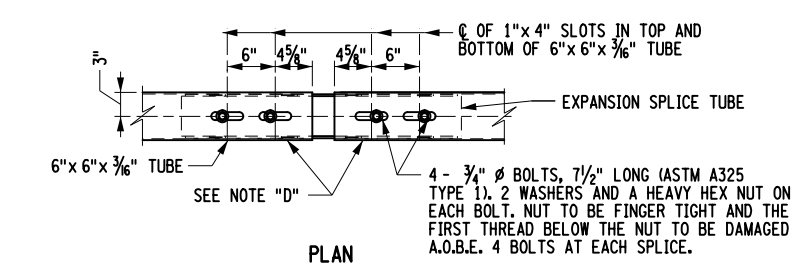
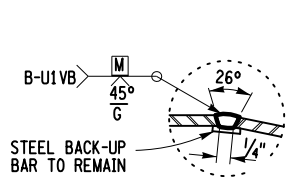
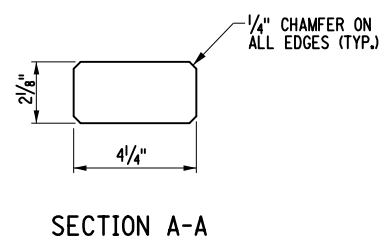
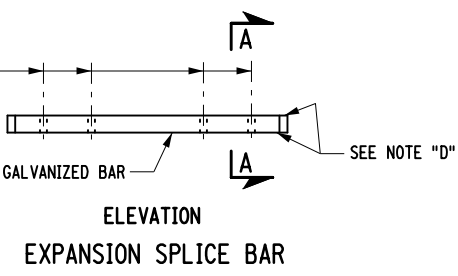
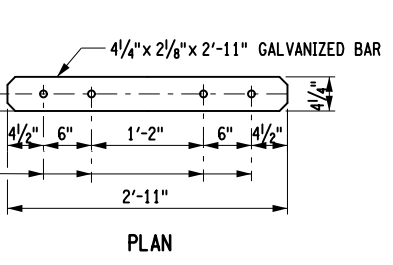
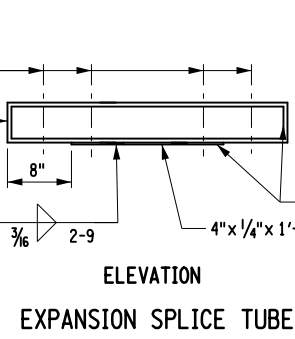
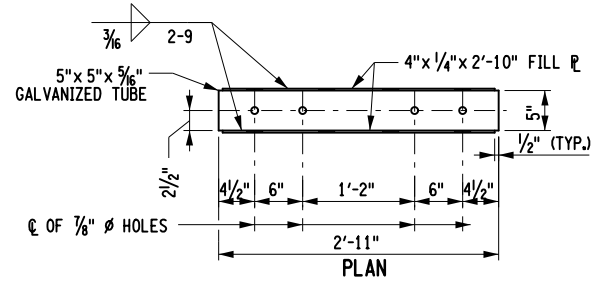
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
	COUNTY ROUTE 10A				RAILING DETAILS (6 OF 7) WATER STREET OVER THE BRANCH	DRAWING NO. ST-32
	TOWN: ELIZABETHTOWN					SHEET NO. 57 OF 61
	COUNTY: ESSEX	REGION: 1				

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.

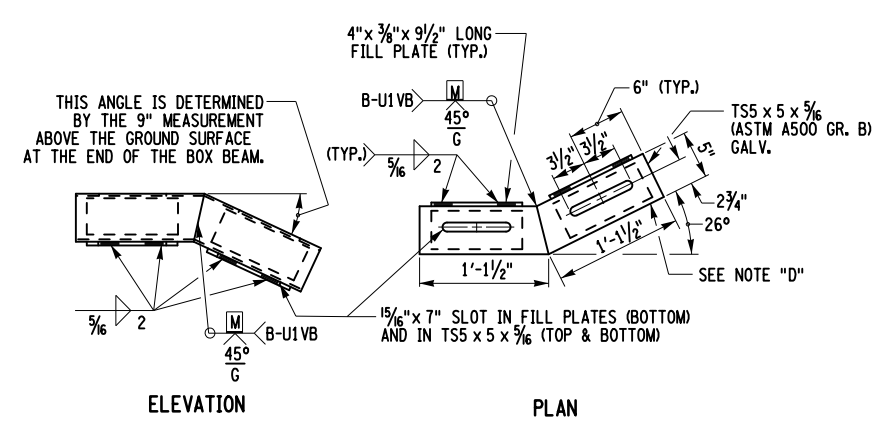
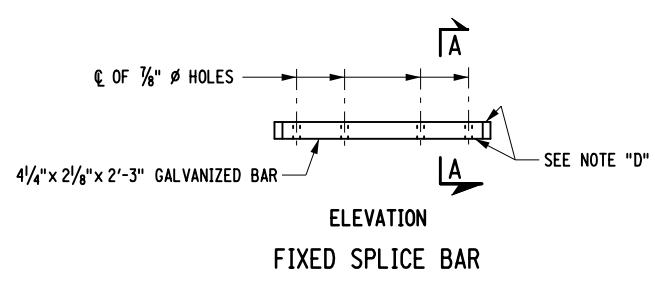
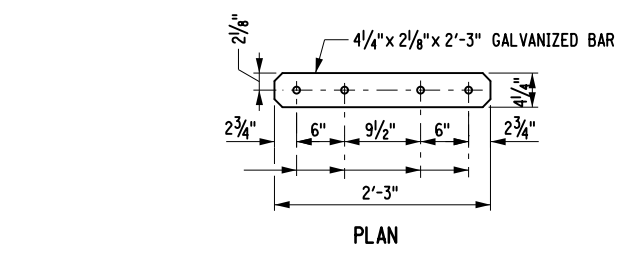
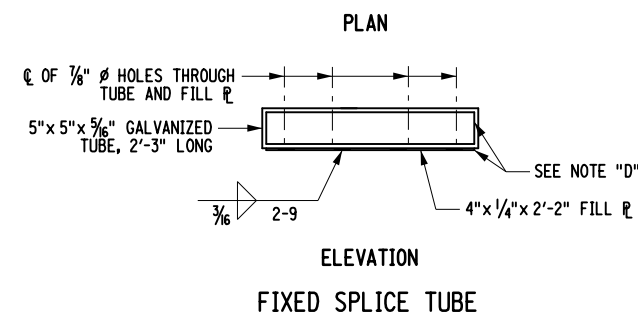
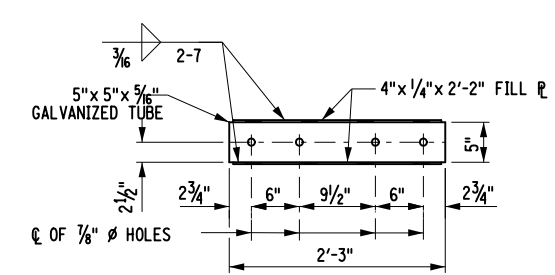


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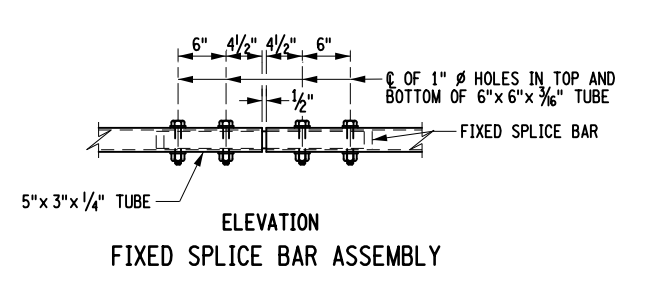
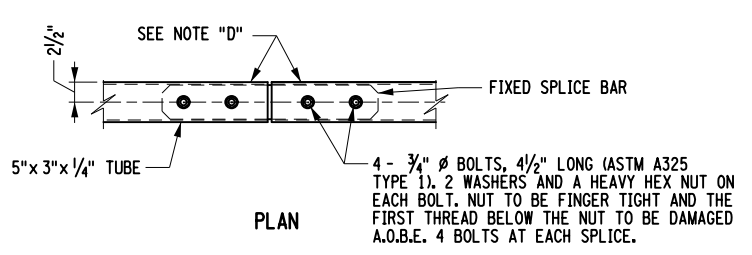
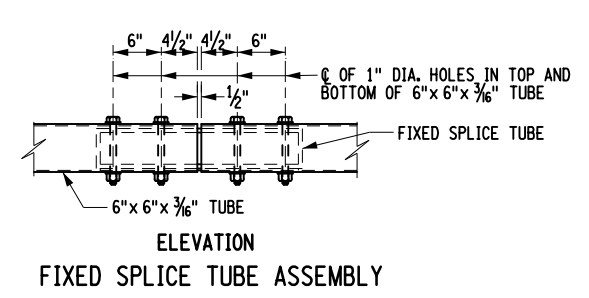
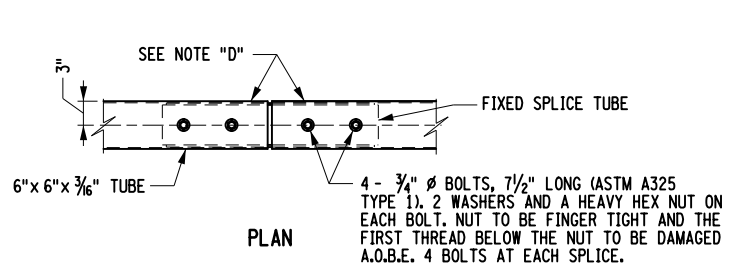
PROJECT MANAGER GWN
 CHECK GWN
 DRAFTING JAT
 CHECK GWN
 DESIGN JAT
 JOB MANAGER GWN
 DESIGN SUPERVISOR MTS



TURN BACK SPLICE



TURN BACK SPLICE TUBE



NOTES:
 1. ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
 2. PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
 3. BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB.).
 4. 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.
 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.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
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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.

RAILING DETAILS (7 OF 7) WATER STREET OVER THE BRANCH	DRAWING NO. ST-33 SHEET NO. 58 OF 61
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MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H1	H2	J	K K1	K2	L	O	R
WEST ABUTMENT																			
POUR NO. 1 - FOOTING																			
5FE01	48	12'-5"	1	622	7"	11'-3"					7"			5"					
5FE02	18	36'-3 1/2"	N1	681														36'-3 1/2"	
8FE03	48	10'-5"	1	1335	1'-1"	9'-4"					⊗			10"					
5FE04	14	17'-1/2"	N1	248														17'-1/2"	
5FE05	50	11'-8"	1	608	7"	10'-6"					7"			5"					
8FE06	54	8'-8"	1	1250	1'-1"	7'-7"					⊗			10					
5FE07	14	18'-10"	N1	275														18'-10"	
5FE08	2	20'-1"	19	42		2'-6"	17'-7"	⊗				1'-9 1/4"			1'-9 1/4"			19'-4"	
5FE09	2	21'-8"	19	45		2'-6"	19'-2"	⊗				1'-3"			2'-2"			21'-4"	
SUBTOTAL EPOXY BARS IN POUR NO. 1:				5106 LB.															
POUR NO. 2 - UPPER STEM																			
6AE01	25	35'-4"	N1	1327														35'-4"	
6AE02	62	10'-2"	N1	947														10'-2"	
5AE03	24	7'-2"	17	179		2'-0"	3'-2"	2'-0"											
8AE04	5	17'-4 1/2"	N1	232														17'-4 1/2"	
8AE05	5	19'-0"	N1	254														19'-0"	
6AE06	12	7'-6"	19	135		2'-0"	5'-6"	⊗				1'-5"			1'-5"			6'-11"	
6AE07	12	5'-10"	19	105		2'-3"	3'-7"	⊗				1'-7"			1'-7"			5'-2"	
6AE08	1	5'-1 1/2"	17	8		1'-6"	2'-1 1/2"	1'-6"											
6AE09	12	8'-7 1/2"	19	156		2'-0"	6'-7 1/2"	⊗				1'-9"			1'-0"			8'-4 1/2"	
6AE10	12	7'-7"	19	137		2'-4"	5'-3"	⊗				2'-0"			1'-2"			7'-3"	
6AE11	1	5'-6"	17	8		1'-6"	2'-6"	1'-6"											
6AE12	1	4'-9"	17	7		1'-6"	1'-9"	1'-6"											
SUBTOTAL EPOXY BARS IN POUR NO. 2:				3495 LB.															
POUR NO. 3 - BACKWALL																			
5AE13	6	18'-10"	N1	118														18'-10"	
5AE14	6	21'-11"	N1	137														21'-11"	
5AE15	29	9'-1/2"	17	274		3'-11 1/4"	1'-2"	3'-11 1/4"											
5AE16	25	5'-10"	17	152		2'-4"	1'-2"	2'-4"											
5AE17	4	7'-10"	17	33		3'-4"	1'-2"	3'-4"											
5AE18	4	15'-6"	17	65		7'-2"	1'-2"	7'-2"											
5AE19	3	4'-10"	19	15		1'-11"	2'-8"	⊗				1'-4"			1'-4"			4'-0"	
5AE20	3	4'-0"	19	13		1'-9"	2'-3"	⊗				1'-3"			1'-3"			3'-6"	
5AE21	3	4'-9"	19	15		2'-2"	2'-7"	⊗				1'-1"			1'-11"			4'-6"	
5AE22	3	4'-0"	19	13		1'-8"	2'-4"	⊗				10"			1'-5 1/4"			3'-9 1/4"	
SUBTOTAL EPOXY BARS IN POUR NO. 3:				835 LB.															

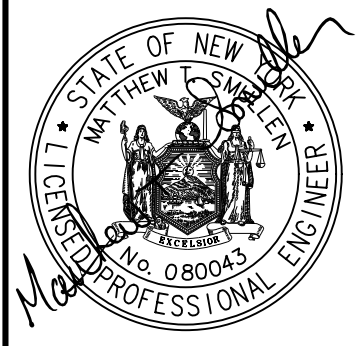
MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H1	H2	J	K K1	K2	L	O	R
POUR NO. 4 - SOUTHWEST WINGWALL																			
5WE01	26	11'-8"	N1	316															11'-8"
5WE02	2	8'-7 1/2"	N1	18															8'-7 1/2"
5WE03	2	4'-1 1/2"	N1	10															
5WE04	2	12'-2 1/2"	19	26		9 1/2"	11'-5"	⊗				3"			9"			12'-2"	
5WE05	26	13'-9 1/2"	N1	374															(*) VARIES FROM 12'-2" TO 15'-5" = 13'-9 1/2" (AVG.) (*)
5WE06	4	15'-8"	N1	65															15'-8"
5WE07	28	4'-2"	17	122	1'-6"	1'-2"	1'-6"												
SUBTOTAL EPOXY BARS IN POUR NO. 4:				931 LB.															
POUR NO. 4 - NORTHWEST WINGWALL																			
5WE07	30	4'-2"	17	130	1'-6"	1'-2"	1'-6"												
5WE08	28	12'-8"	N1	370															12'-8"
5WE09	2	7'-6"	N1	16															7'-6"
5WE10	2	13'-2"	19	28		11"	12'-3"	⊗				3"			10 1/2"			13'-1 1/2"	
5WE11	28	14'-10"	N1	433															(*) VARIES FROM 13'-2" TO 16'-0" = 14'-10" (AVG.) (*)
5WE12	4	16'-3"	N1	68															16'-3"
SUBTOTAL EPOXY BARS IN POUR NO. 4:				1045 LB.															
TOTAL EPOXY BARS IN WEST ABUTMENT:				11412 LB.															
EAST ABUTMENT																			
POUR NO. 1 - FOOTING																			
SAME AS WESTABUTMENT																			
SUBTOTAL EPOXY BARS IN POUR NO. 1:				5106 LB.															
POUR NO. 2 - UPPER STEM																			
6AE01	17	35'-4"	N1	902														35'-4"	
5AE03	24	7'-2"	17	179		2'-0"	3'-2"	2'-0"											
8AE04	5	17'-4 1/2"	N1	232															17'-4 1/2"
8AE05	5	19'-0"	N1	254															19'-0"
6AE06	8	7'-6"	19	90		2'-0"	5'-6"	⊗				1'-5"			1'-5"			6'-11"	
6AE07	8	5'-10"	19	70		2'-3"	3'-7"	⊗				1'-7"			1'-7"			5'-2"	
6AE08	1	5'-1 1/2"	17	8		1'-6"	2'-1 1/2"	1'-6"											
6AE09	8	8'-7 1/2"	19	104		2'-0"	6'-7 1/2"	⊗				1'-9"			1'-0"			8'-4 1/2"	
6AE10	8	7'-7"	19	91		2'-4"	5'-3"	⊗				2'-0"			1'-2"			7'-3"	
6AE11	1	5'-6"	17	8		1'-6"	2'-6"	1'-6"											
6AE12	1	4'-9"	17	7		1'-6"	1'-9"	1'-6"											
SUBTOTAL EPOXY BARS IN POUR NO. 2:				1945 LB.															
POUR NO. 3 - BACKWALL																			
SAME AS WESTABUTMENT																			
SUBTOTAL EPOXY BARS IN POUR NO. 3:				835 LB.															

NOTES:

1. WEIGHT IS GIVEN IN POUNDS (LB)
2. ALL DIMENSIONS ARE OUT-TO-OUT.
3. 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.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
ON: APRIL 16, 2021

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX REGION: 1	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D035818
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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.


BARLIST (1 OF 2) WATER STREET OVER THE BRANCH	DRAWING NO. ST-34 SHEET NO. 59 OF 61
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MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H1	H2	J	K K1	K2	L	O	R
EAST ABUTMENT (CONT'D.)																			
POUR NO. 4 - NORTHEAST WINGWALL																			
5WE01	20	11'-8"	N1	243														11'-8"	
5WE07	25	4'-2"	17	109	1'-6"	1'-2"	1'-6"												
5WE13	2	7'-7"	N1	16														7'-7"	
5WE14	2	11'-10"	19	25		10"	11'-0"					2"			9 1/2"			11'-9 1/2"	
5WE15	26	11'-8 1/2"	N1	318															(*) VARIES FROM 10'-8" TO 12'-9" = 11'-8 1/2" (AVG.)
5WE16	4	13'-11"	N1	58														13'-11"	
SUBTOTAL EPOXY BARS IN POUR NO. 4:				769 LB.															
POUR NO. 4 - SOUTHEAST WINGWALL																			
5WE07	25	4'-2"	17	109	1'-6"	1'-2"	1'-6"												
5WE08	48	12'-8"	N1	634														12'-8"	
5WE17	2	9'-4"	N1	20														9'-4"	
5WE18	2	5'-5"	N1	11														5'-5"	
5WE19	2	13'-3 1/2"	19	28		10"	12'-5 1/2"					3"			9 1/2"				
5WE20	28	10'-4"	N1	302															(*) VARIES FROM 8'-8" TO 12'-0" = 10'-4" (AVG.)
5WE21	4	12'-3"	N1	51														12'-3"	
SUBTOTAL EPOXY BARS IN POUR NO. 4:				1155 LB.															
TOTAL EPOXY BARS IN EAST ABUTMENT:				9810 LB.															
SUPERSTRUCTURE SLAB (COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 557.0503)																			
4DE01	53	60'-0"	N1	2124														60'-0"	
4DE02	53	36'-8"	N1	1298														36'-8"	
4DE03	140	24'-8"	2	2307	8"	24'-0"													
4DE04	140	11'-9"	2	1099	8"	11'-1"													
5DE05	58	5'-7"	1	338	7"	5'-0"								5"					
5DE06	2	3'-1/2"	19	6		1'-1"	1'-11 1/2"					9"		9"				2'-8 1/2"	
5DE07	2	3'-8 1/2"	19	8		1'-9"	1'-11 1/2"					1'-2 3/4"		1'-2 3/4"				3'-2 1/4"	
TOTAL EPOXY BARS IN SUPERSTRUCTURE SLAB:				7180 LB.															
SIDEWALK (COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 557.30)																			
5DE08	93	2'-9"	17	267	1'-0"	9"	1'-0"												
4DE09	89	6'-0"	N1	357														6'-0"	
4DE10	6	6'-4 1/4"	N1	26															(*) VARIES FROM 6'-3" TO 6'-5 3/4" = 6'-4 1/4" (AVG.)
4DE11	7	60'-0"	N1	281														60'-0"	
4DE12	7	36'-8"	N1	172														36'-8"	
4DE13	14	4'-6"	N1	42														4'-6"	
4DE14	6	4'-7"	N1	18															(*) VARIES FROM 4'-6" TO 4'-8" = 4'-7" (AVG.)
4DE15	12	9'-6"	N1	76														9'-6"	
4DE16	1	9'-8 1/2"	19	7		10 3/4"	8'-9 3/4"					5 1/4"		5 1/4"				9'-7"	
4DE17	1	5'-1"	19	3		10 3/4"	4'-2 1/4"					7 1/2"		10"				4'-10"	
4DE18	1	9'-8 1/2"	19	7		9 3/4"	8'-10 3/4"					8 1/2"		5"				9'-3 1/2"	
4DE19	1	4'-8 1/2"	19	3		9 3/4"	3'-10 3/4"					7"		7"				4'-5 3/4"	
TOTAL EPOXY BARS IN SIDEWALK:				1259 LB.															

NOTES:

1. WEIGHT IS GIVEN IN POUNDS (LB)
2. ALL DIMENSIONS ARE OUT-TO-OUT.
3. 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.

AFFIX SEAL: MATTHEW T. SMULLEN, P.E. ON: APRIL 16, 2021	ALTERED BY: ON:
	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROUTE 10A TOWN: ELIZABETHTOWN COUNTY: ESSEX REGION: 1	PIN 1760.51 UTILITY QUALITY LEVEL C	BRIDGES 3301700	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED BARLIST (2 OF 2) WATER STREET OVER THE BRANCH	CONTRACT NUMBER D035818 DRAWING NO. ST-34 SHEET NO. 60 OF 61
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MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H1	H2	J	K K1	K2	L	O	R
WEST APPROACH SLAB (BEGIN BRIDGE) (COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 557.2003)																			
5SE01	44	9'-6"	N1	436															9'-6"
5S02	44	9'-6"	N1	436															9'-6"
5SE03	1	9'-8 1/2"	19	10		10 3/4"	8'-9 3/4"					5 1/4"		5 1/4"				9'-7"	
5S04	1	9'-8 1/2"	19	10		10 3/4"	8'-9 3/4"					5 1/4"		5 1/4"				9'-7"	
5SE05	1	9'-8 1/2"	19	10		9 3/4"	8'-10 3/4"					8 1/2"		5"				9'-3 1/2"	
5S06	1	9'-8 1/2"	19	10		9 3/4"	8'-10 3/4"					8 1/2"		5"				9'-3 1/2"	
5SE07	11	30'-9 1/2"	N1	353														30'-9 1/2"	
5S08	11	30'-9 1/2"	N1	353														30'-9 1/2"	
5SE09	1	31'-3 3/4"	14	33		9 3/4"	29'-7 1/4"	10 3/4"				7"	7 1/2"	7"	7 1/2"			30'-9 3/4"	
5S10	1	31'-3 3/4"	14	33		9 3/4"	29'-7 1/4"	10 3/4"				7"	7 1/2"	7"	7 1/2"			30'-9 3/4"	
TOTAL UNCOATED BARS IN WEST APPROACH SLAB:				842 LB.															
TOTAL EPOXY BARS IN WEST APPROACH SLAB:				842 LB.															
EAST APPROACH SLAB (END BRIDGE) (COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 557.2003)																			
SAME AS WEST APPROACH SLAB																			
TOTAL UNCOATED BARS IN WEST APPROACH SLAB:				842 LB.															
TOTAL EPOXY BARS IN WEST APPROACH SLAB:				842 LB.															
NORTH CONCRETE PARAPET (COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 569.03)																			
7CE01	7	60'-0"	N1	859														60'-0"	
7CE02	7	36'-8"	N1	525														36'-8"	
5CE03	190	4'-9 1/2"	S11	948								2'-3"						6"	
5CE04	190	5'-9 1/2"	S11	1146								2'-9"						6"	
TOTAL EPOXY BARS IN NORTH CONCRETE PARAPET:				3478 LB.															
SOUTH CONCRETE PARAPET (COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 569.03)																			
7CE01	7	60'-0"	N1	859														60'-0"	
7CE02	7	36'-8"	N1	525														36'-8"	
5CE03	380	4'-9 1/2"	S11	1896								2'-3"						6"	
TOTAL EPOXY BARS IN SOUTH CONCRETE PARAPET:				3280 LB.															

FILE NAME = 176051_cph_gmn.dgn
 DATE/TIME = 4/16/2021 9:45:30 AM
 USER = gneaddo

DESIGN SUPERVISOR MTS

JOB MANAGER GWN

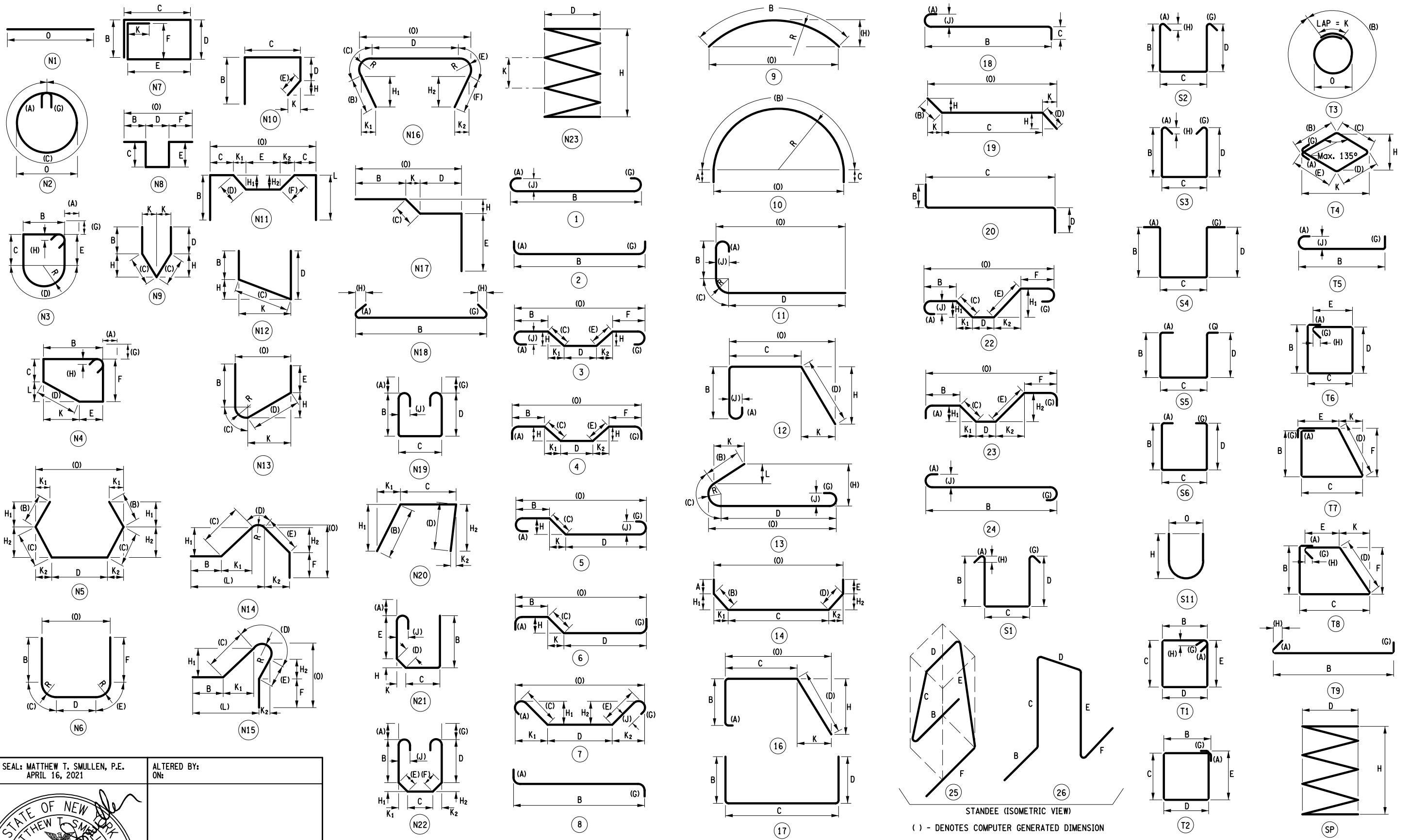
DESIGN JAT

CHECK GWN

DRAFTING JAT

CHECK GWN

PROJECT MANAGER GWN



STANDEE (ISOMETRIC VIEW)
 () - DENOTES COMPUTER GENERATED DIMENSION

AFFIX SEAL: MATTHEW T. SMULLEN, P.E.
 ON: APRIL 16, 2021

ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY ROUTE 10A
 TOWN: ELIZABETHTOWN
 COUNTY: ESSEX REGION: 1

PIN 1760.51
 UTILITY QUALITY LEVEL C
 BRIDGES 3301700
 CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 BAR BENDING DIAGRAMS
 WATER STREET
 OVER
 THE BRANCH

CONTRACT NUMBER
 D035818
 DRAWING NO. ST-35
 SHEET NO. 61 OF 61

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