

SITE OF WORK

NOBLE TERRACE OVER BARTON BROOK CULVERT REPLACEMENT

TOWN OF ELIZABETHTOWN ESSEX COUNTY, NEW YORK BIN TBD

**THIS IS A FEMA FUNDED PROJECT
DR 4814 - PROJECT NUMBER: 766429**

THE LATEST REVISIONS OF THE NYS DOT 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 NYS DOT STANDARD SPECIFICATIONS (US CUSTOMARY) MAINTAINED BY THE DEPARTMENT WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT DOCUMENTS.

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYS DOT POLICIES AND GUIDELINES AND SCOPE SUMMARY MEMORANDUM DATED MAY 2, 2025.

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.

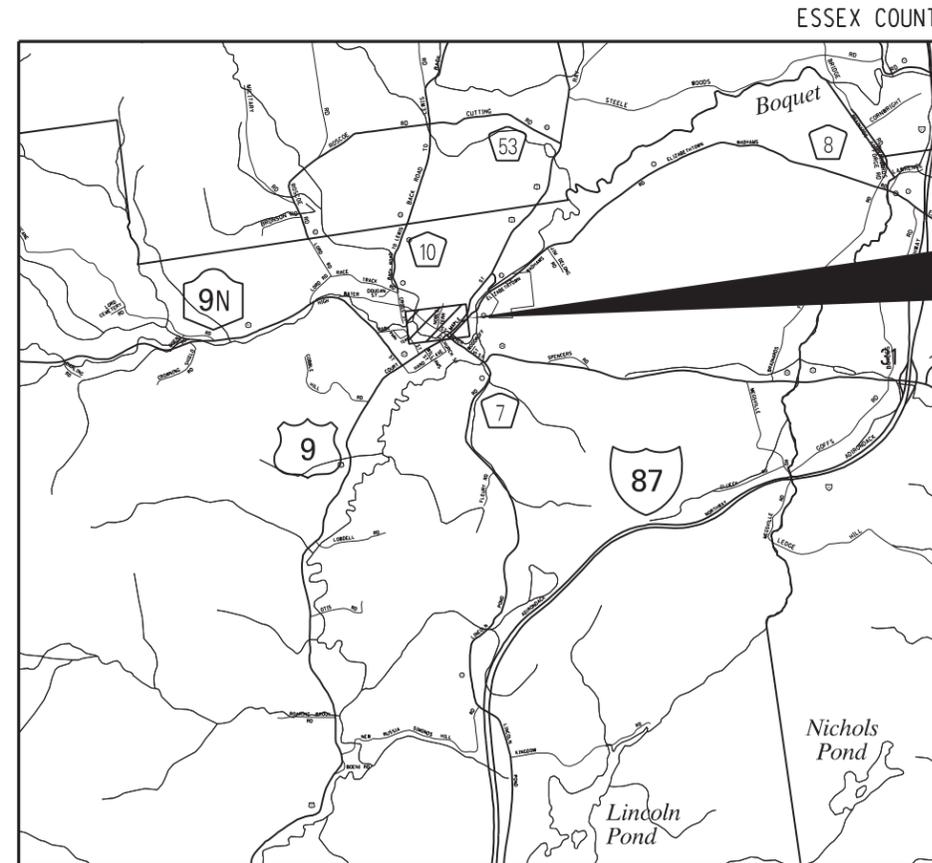
PROJECT DESCRIPTION

REPLACEMENT OF THE NOBLE TERRACE OVER BARTON BROOK CULVERT AND ASSOCIATED HIGHWAY APPROACH RECONSTRUCTION AND ROADSIDE APPURTENANCES.

CONTRACT LIMITS

APPROXIMATELY 100 FT TO THE NORTH & SOUTH OF THE CULVERT.

PREPARED FOR:
TOWN OF ELIZABETHTOWN
7563 COURT STREET
ELIZABETHTOWN, NY 12932



PROJECT LOCATION

PROJECT LOCATION

PREPARED BY:



2/10/2026

CHARLES TUTUNJIAN
LIC. NO. 074258

		
14 Corporate Dr, Clifton Park, NY 12065 888-379-1527		
NOBLE TERRACE OVER BARTON BROOK CULVERT REPLACEMENT BIN TBD		
SHEET NO.	TOTAL SHEETS	H&T* 24-050
1	30	DATE: 02/2026

PROJECT MANAGER C. TUTUNJIAN

CHECKED BY I. PENGU

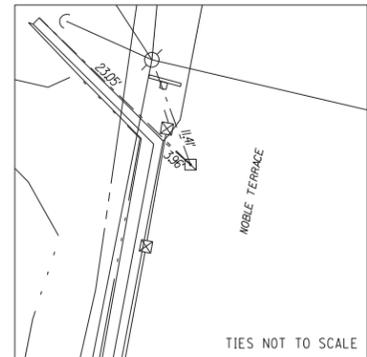
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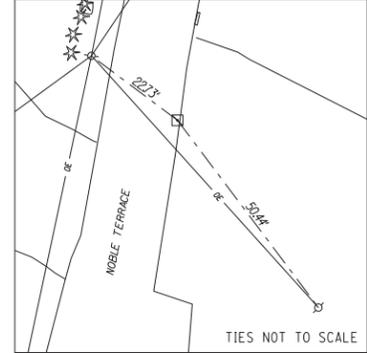
DESIGNED BY C. VICKERY

PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY

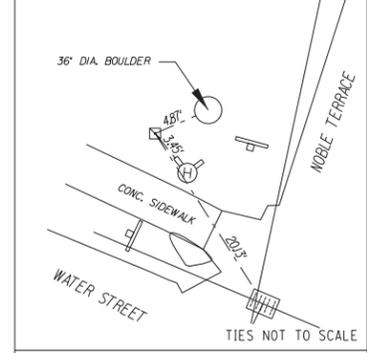
NOBLE TERRACE PLAN INDEX		
SHEET NO.	DESCRIPTION	DRAWING NO.
1	COVER	COV
2	INDEX & ESTIMATE	IA-1
3	LEGEND POINT SYMBOLOGY	LE-1
4	LEGEND LINE SYMBOLOGY	LE-2
5	GENERAL NOTES	GN-1
6	GENERAL PLAN & ELEVATION	ST-1
7	TYPICAL SECTIONS	ST-2
8	PROFILE	ST-3
9	EARTHWORK & EROSION CONTROL PLAN	ST-4
10	EARTHWORK SECTIONS	ST-5
11	BEGIN ABUTMENT PLAN & ELEVATION	ST-6
12	BEGIN ABUTMENT REINFORCEMENT PLAN & DETAILS	ST-7
13	END ABUTMENT PLAN & ELEVATION	ST-8
14	END ABUTMENT REINFORCEMENT PLAN & DETAILS	ST-9
15	ABUTMENT MISCELLANEOUS DETAILS	ST-10
16	BEARING DETAILS	ST-11
17	BRIDGE TRANSVERSE SECTION	ST-12
18	FRAMING PLAN	ST-13
19	PRECAST BEAM PLAN & REINFORCEMENT DETAILS	ST-14
20	PRECAST BEAM DETAILS	ST-15
21	CAMBER & DESIGN LOAD TABLES	ST-16
22	SUPERSTRUCTURE SLAB REINFORCEMENT PLAN	ST-17
23	APPROACH SLAB PLANS & DETAILS	ST-18
24	WATER MAIN RELOCATION PLAN	ST-19
25	WATER MAIN DETAILS - 1	ST-20
26	WATER MAIN DETAILS - 2	ST-21
27	RAILING PLAN & TABLES	ST-22
28	BRIDGE RAIL DETAILS	ST-23
29	TRANSITION RAIL PLAN, ELEVATION & DETAILS	ST-24
30	TRANSITION RAIL DETAILS	ST-25



B1
 MAG-NAIL IN PAVEMENT
 NYSPCS EAST ZONE (2011)
 N: 1963172.37
 E: 730170.62
 ELEV: 556.15'



B2
 MAG-NAIL IN PAVEMENT
 NYSPCS EAST ZONE (2011)
 N: 1963.007.13
 E: 730152.79
 ELEV: 554.05'



B3
 8" DOCK SPIKE, 1" BELOW GRADE
 NYSPCS EAST ZONE (2011)
 N: 1962910.46
 E: 730095.28
 ELEV: 554.31'

BASELINE TIES

NOBLE TERRACE PLAN ESTIMATE OF QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
201.06	CLEARING AND GRUBBING	LS	1	
202.19	REMOVAL OF SUBSTRUCTURES	CY	57	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	177	
203.03	EMBANKMENT IN PLACE	CY	144	
203.21	SELECT STRUCTURE FILL	CY	98	
203.24010017	SHOULDER BACKUP MATERIAL	TON	17	
206.01	STRUCTURE EXCAVATION	CY	831	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	79	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	48	
209.13	SILT FENCE-TEMPORARY	LF	237	
209.1501	TURBIDITY CURTAIN - TEMPORARY	LF	126	
304.12	SUBBASE COURSE, TYPE 2	CY	241	
404.0983	9.5 F3 TOP COURSE ASPHALT, 80 SERIES COMPACTION	TON	26	
404.1989	19 F9 BINDER COURSE ASPHALT, 80 SERIES COMPACTION	TON	44	
404.3789	37.5 F9 BASE COURSE ASPHALT, 80 SERIES COMPACTION	TON	53	
407.0102	DILUTED TACK COAT	GAL	37	
553.020001	COFFERDAMS (TYPE 2)	EACH	1	
553.020002	COFFERDAMS (TYPE 2)	EACH	1	
555.0021	CONCRETE FOR STRUCTURES, PERFORMANCE	CY	107	
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	LB	726	
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	LB	441	
557.1211	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE BOTTOM FORMWORK NOT REQUIRED - TYPE 1 FRICTION	SY	98	
557.1012	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE TYPE 2 FRICTION	SY	37	
557.29	WINTER SURFACE TREATMENT - SUPERSTRUCTURE SLABS AND STRUCTURAL APPROACH SLABS	SY	136	
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SY	107	
559.01	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE, DECKS AND BRIDGE DECK OVERLAYS	SF	112	
559.02	PROTECTIVE SEALING OF NEW STRUCTURAL CONCRETE	SF	37	
563.03	PRESTRESSED CONCRETE HOLLOW SLAB UNITS	SF	765	
565.1921	TYPE E.L. BEARING (0 TO 55 KIPS)	EACH	12	
568.51	STEEL BRIDGE RAILING (FOUR RAIL)	LF	107	
568.70	TRANSITION BRIDGE RAILING	LF	95	
606.10	BOX BEAM GUIDE RAILING	LF	33	
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF	37	
606.120101	BOX BEAM END PIECE	EACH	3	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	1	
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	94	
608.020102	ASPHALT SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON	10	
610.1605	TURF ESTABLISHMENT PERFORMANCE	SY	143	
613.04000001	STOCKPILING AND PLACING EXISTING STREAM BED MATERIALS	CY	15	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	6	
619.1711	TEMPORARY POSITIVE BARRIER - CATEGORY 1 (PINNING PROHIBITED)	LF	40	
620.04	STONE FILLING (MEDIUM)	CY	138	
625.01	SURVEY OPERATIONS	LS	1	
627.50140008	CUTTING PAVEMENT	LF	40	
645.5101	GROUND-MOUNTED SIGN PANELS WITHOUT Z-BARS	SF	30	
645.81	TYPE A SIGN POSTS	EACH	4	
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EACH	6	
646.32	STEEL POST, 2.0 LB/FT	EACH	4	
647.51	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE (UNDER 30 SQUARE FEET)	EACH	7	
663.0508	BRIDGE MOUNTED WATER PIPE, 8"	LF	110	
663.33	ADJUST EXISTING VALVE BOX ELEVATION	EACH	2	
697.03	FIELD CHANGE PAYMENT	DC	54820	
699.040001	MOBILIZATION	LS	1	

TABLE OF HORIZONTAL ALIGNMENT				
POINT	STATION	CURVE DATA	COORDINATE	
			NORTH	EAST
POB	N 0+00.00	AZ 10°38'20.4" LENGTH = 350.00 FT	1962892.41	730123.67
POE	N 3+50.00		1963236.39	730188.28

PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814 PROJECT NUMBER: 766429
	CULVERT REPLACEMENT PROJECT				
	TOWN OF ELIZABETHTOWN			INDEX & ESTIMATE	DRAWING NO. IA-1
	COUNTY: ESSEX REGION: 1				SHEET NO. 2

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PROJECT MANAGER: C. TUTUNJIAN

CHECKED BY: I. PENGU

DRAFTED BY: C. VICKERY

CHECKED BY: I. PENGU

DESIGNED BY: C. VICKERY

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
△	ADPI.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	⊕	DSR	STRUCTURE, ROUND	⊕	ICJB	CONDUIT JACK OR BORING	⊕	MEPAP.P	EASEMENT, PERM., APPROX.	⊕	SRSC3	SHLD, CTY, 123 DIG.	⊕	UGLM	GAS, LINE MARKER
⊕	AEQNBK	EQUATION BACK	⊕	DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICNTLCAB	CONTROLLER CABINET	⊕	MEPP.P	EASEMENT, PERM., BACK LINE	⊕	SRSC4	SHLD, CTY, 4 DIG.	⊕	UGP	GAS/FUEL PUMP
○	AEVT	EVENT STATION	⊕	DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICPB	COMMUNICATION PULL BOX	⊕	MEPSP.P	EASEMENT, PERM., SHAPE	⊕	SRSC2	SHLD, CTY TOUR, 1-2 DIG.	⊕	UGV	GAS, VALVE
⊕	APC	POINT OF CURVATURE	⊕	DST"X".P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U	⊕	ICTD	CONDUIT TURNING DOWN	⊕	MFAP.P	FEE ACQUISITION, APPROX.	⊕	SRSC4	SHLD, CTY TOUR, 3-4 DIG.	⊕	UGVT	GAS, VENT
○	APCC	POINT OF COMPOUND CURVATURE	⊕	DST"X".P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U	⊕	ICTU	CONDUIT TURNING UP	⊕	MFP.P	FEE ACQUISITION, BACK LINE	⊕	SRS1	SHLD, INTERSTATE	⊕	ULP	LIGHTING, POLE
△	API	POINT OF INTERSECTION	ENVIRONMENTAL			⊕	ICVTRT	COMM. VEH. ROAD TRANSCEIVER	⊕	MFSP.P	FEE ACQUISITION, SHAPE	⊕	SRS2	SHLD, NATIONAL, 2 DIG.	⊕	ULPM	LIGHTING, POLE, MEDIAN
△	APOB	POINT OF BEGINNING	ENVIRONMENTAL			+	IDEFAULT	DEFAULT	⊕	MHBAP	HIGHWAY BNDRY., APPROX.	⊕	SRS3	SHLD, NATIONAL, 3 DIG.	⊕	ULPP	LIGHTING, POLE, PED.
○	APOC	POINT OF CURVATURE	⊕	EIOP.P	STR., INLET, OUTLET PROT.	⊕	IEZR	E-ZPASS READER	⊕	MHBCP	HISTORICAL, BLDG. CORNERS	⊕	SRSS2	SHLD, STATE, 2 DIG.	⊕	UMFC	MISC. FILLER CAP
△	APOE	POINT OF END	⊕	EIPGB.P	STR., INLET PROT., GRAVEL BAG	⊕	IEZTR	TRANSMITTAL READER	⊕	MHBP	HIGHWAY BNDRY, PT.	⊕	SRSS3	SHLD, STATE, 3 DIG.	⊕	UOLM	OIL, LINE MARKER
○	APOL	POINT ON LINE	⊕	EIPHS.P	STR., INLET PROT., HAY/STRAW	⊕	IFOXCAB	FIBER OPTIC X-CONNECT CABINET	⊕	MJCP	PT., JURIS. CITY	⊕	SRSS4	SHLD, STATE, 4 DIG.	⊕	UP	POLE, WITH UTILITY
○	APOS	POINT ON SPIRAL	⊕	EIPPS.P	STR., INLET PROT., PREFAB.	⊕	IFUSSPL	FUSION SPLICE	⊕	MPBC	PT., BUILDING CORNER	TRAFFIC CONTROL			○	UPD	POLE, DEAD (NO UTILITY)
○	APOT	POINT ON TANGENT	⊕	EIPPS.P	STR., INLET PROT., PREFAB.	⊕	IHARADV	HAR ADVISORY SIGN	⊕	MPCC	PT., CROSS CUT	⊕	TCBJ	BOX, JUNCTION	⊕	UPL	POLE, WITH LIGHT
△	APOVC	POINT ON VERTICAL CURVE	⊕	EIPPS.P	STR., INLET PROT., PREFAB.	⊕	IHARST	HAR SITE	⊕	MPDH	PT., DRILL HOLE	⊕	TCBP	BOX, PULL BOX	⊕	USMH	SANITARY SEWER MANHOLE
△	APOVT	POINT ON VERTICAL TANGENT	⊕	EIPSF.P	STR., INLET PROT., SILT FENCE	⊕	ILC	LOAD CENTER	⊕	MPF	PT., FENCE LOCATION	⊕	TCBS	BOX, SPLICE	⊕	UTB	TELEPHONE, BOOTH
Y	APORC	POINT ON REVERSE CURVE	⊕	ERCB	RISER, CONCRETE BOX	⊕	IMECSPL	MECHANICAL SPLICE	⊕	MPIP	PT., IRON PIPE	⊕	TCMC	MICROCOMPUTER CABINET	⊕	UTLM	TELEPHONE, LINE MARKER
⊕	APT	POINT OF TANGENCY	⊕	ETRS.P	TRAP, SEDIMENT	⊕	IMSCS	PORT. SPEED & COUNT SENSOR	⊕	MPIR	PT., IRON ROD	⊕	TCPP	PED POLE	⊕	UTMH	TELEPHONE, MANHOLE
⊕	APVC	POINT OF VERTICAL CURVATURE	+	EWFG	WETLAND FLAG	⊕	IMSCTS	MICRO SPEED & COUNT SENSOR	⊕	MPM	PT., MONUMENT	⊕	TCSH	SIGNAL HEADS	⊕	UTVLM	CABLE TV, LINE MARKER
△	APVCC	POINT OF VERT. CMPND CURVE	GEOTECHNICAL			⊕	IMT	MICROWAVE TRANSCEIVER	⊕	MPMM	PT., MONUMENT, MISC.	⊕	TCSP	SIGNAL POLE	⊕	UTVPB	CABLE TV, PULL BOX
⊕	APVI	POINT OF VERT. INTERSECTION	⊕	GDH	DRILL HOLE	⊕	IOVHVS	PERM. OVERHEAD VMS	⊕	MPN	PT., NAIL	TRAFFIC WORK ZONE			⊕	UUB	UNKNOWN, BOX
△	APVRC	POINT OF VERT. REVERSE CURVE	LANDSCAPE			⊕	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	⊕	MPRS	PT., RAILROAD SPIKE	⊕	TWZAP.P	ARROW PANEL	⊕	UUB	UNKNOWN, BOX
⊕	APVT	POINT OF VERTICAL TANGENCY	LANDSCAPE			⊕	IPEDS	PEDESTRIAN SIGNAL HEAD	⊕	MPSP	PT., SPIKE	⊕	TWZAPC.P	ARROW PANEL, CAUTION MODE	⊕	UUMH	UNKNOWN, MANHOLE
⊕	ASC	SPIRAL TO CURVE	+	LELS	ELEVATION, SPOT	⊕	IPSS	PAVEMENT SURFACE SENSOR	⊕	MPST	PT., STAKE	⊕	TWZAPT.P	ARROW PANEL, TRAILER OR SUPPORT	⊕	UUPB	UNKNOWN, PULL BOX
△	ASPI	SPIRAL POINT OF INTERSECTION	⊕	LFP	FLAG POLE	⊕	IPVMS	PERM. VMS	⊕	MPTW	PT., TREE W/ WIRE	⊕	TWZBDC.P	BARRICADE (TYPE III)	⊕	UUVL	UNKNOWN, VALVE
○	ASTS	SPIRAL TO SPIRAL	⊕	LMB	MAILBOX	⊕	IRM	RAMP METER	⊕	MPWL	PT., WALL LOCATION	⊕	TWZCZM.P	CHANGEABLE MESSAGE SIGN (PVMS)	⊕	UUVT	UNKNOWN, VENT
⊕	AST	SPIRAL TO TANGENT	⊕	LPB	PAPER BOX	⊕	IRWIS	RDWY WEATHER INFO. SENSOR	ROW ACQUISITION			⊕	TWZFLG.P	FLAGGER	⊕	UUW	UNKNOWN, WELL
⊕	ATS	TANGENT TO SPIRAL	○	LPST	POST, SINGLE	⊕	ISP	SOLAR PANEL	⊕	MFS.P.T	FEE ACQUISITION	⊕	TWZFT.P	FLAG TREE	⊕	UWFH	WATER, FIRE HYDRANT
△	AVEVT	VERTICAL EVENT POINT	⊕	LRB	ROCK, BOULDER	⊕	ISST	SPREAD SPECT. TRANSCEIVER	⊕	MEFS.P.T	EASEMENT, PERMANENT	⊕	TWZG.P	FLAG TREE	⊕	UWM	WATER, METER
○	AVHIGH	VERTICAL HIGH POINT	⊕	LSHC	SHRUB, CONIFEROUS	⊕	ITDB	TELEPHONE DEMARCATION BLK	⊕	MEPS.P.T	EASEMENT, PERMANENT	⊕	TWZIA.P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)	⊕	UWMH	WATER, MANHOLE
○	AVLOW	VERTICAL LOW POINT	⊕	LSHD	SHRUB, DECIDUOUS	⊕	ITP	SUBSURFACE TEMP. PROBE	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	TWZLUM.P	LUMINAIRE (TEMPORARY)	⊕	UWV	WATER, VALVE
BRIDGE			⊕	LTC	TREE, CONIFEROUS	⊕	IVTRT	VEHICLE TO RDWY TRANSCEIVER	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	TWZSDT.P	SYMBOL, DIRECTION OF TRAFFIC	⊕	UWW	WATER, WELL
⊕	BSC	BRIDGE, SCUPPER	⊕	LTD	TREE, DECIDUOUS	⊕	IWIMD	WEIGHT IN MOTION DETECTOR	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	TWZSDTD.P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR	CONTROL		
			⊕	LTS	TREE, STUMP	⊕	IWVR	WIRELESS VIDEO REPEATER	⊕	MFS.P.T	FEE ACQUISITION W/O ACCESS	⊕	TWZSGN.P	SIGN (TEMPORARY)	⊕	CBP	BASELINE, POINT
						⊕	IWVRC	WIRELESS VIDEO RECEIVER	ROADWAY			⊕	TWZSIG.P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)	⊕	CBPOL	BASELINE, POINT ON LINE
						⊕	IWVTT	WIRELESS VIDEO TRANSMITTER	⊕	RES.P	ELEVATION, SPOT	⊕	TWZWL.P	WARNING LIGHT	⊕	CBSP	BASELINE, SPUR POINT
									⊕	RGA	GUIDE RAIL, ANCHOR	⊕	TWZWV.P	WORK VEHICLE	⊕	CBTP	BASELINE, TIE POINT
									⊕	RGF	GUIDE POST, SINGLE	⊕	TWZWVA.P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR	⊕	CPBM	BENCHMARK
															⊕	CPH	POINT, HORIZ. PHOTOGRAMMETRY
															⊕	CPSM	POINT, SURVEY MARKER, PERM.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814 PROJECT NUMBER: 766429	
	CULVERT REPLACEMENT PROJECT					
	TOWN OF ELIZABETHTOWN			LEGEND POINT SYMBOLOLOGY	DRAWING NO. LE-1 SHEET NO. 3	
	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.						
				H&T Engineering, PLLC	Town of Elizabethtown	FEMA

+

PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 DESIGNED BY: C. VICKERY

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		CZ	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		LAWL	AREA, WATERS EDGE		RGC	GUIDE RAIL, CABLE	UTILITIES			
	BSHT	SHEET PILING		LCUT.P	CUT LIMIT		RCCB	GUIDE RAIL, CONCRETE BARRIER		UC	CONDUIT, UNDERGROUND	
CONTROL				LFILL.P	FILL LIMIT		RGP.P	GUIDE POST		UCH	CONDUIT, HANGING	
	CB	BASELINE		LFNC	FENCE		RGW	GUIDE RAIL, W BEAM		UCO	CONDUIT, OVERHEAD	
	CBPR	BASELINE, PROJECTION		LTRC	TREE ROW, CONIFEROUS		RGWM	GUIDE RAIL, W BEAM, MEDIAN		UE	ELECTRIC LINE, UNDERGROUND	
DRAINAGE				LTRD	TREE ROW, DECIDUOUS		RPB	PARKING BUMPER		UEH	ELECTRIC LINE, HANGING	
	DCP	CULVERT PIPE		LWH	WALL, H PILE		RRC	RAIL ROAD, CATENARY		UEO	ELECTRIC LINE, OVERHEAD	
	DCP.P	CULVERT PIPE (DIR)		LWR	WALL, RETAINING		RRER	RAIL ROAD, 3RD RAIL		UETO	ELECTRIC TRANSMISSION, OVERHEAD	
	DDG.P	DITCH, GRASS LINED		LWS	WALL, STONE		RRPLS.P	RAIL, PHOTO, LARGE SCALE		UESS	ELECTRIC, SUBSTATIONS	
	DDP.P	DITCH, PAVED INVERT	ROW MAPPING				RRPSS	RAIL, PHOTO, SMALL SCALE		UFO	FIBER OPTIC, UNDERGROUND	
	DDS.P	DITCH, STONE LINED		MDL	DEED LINE		RRS	RUMBLE STRIP		UFOH	FIBER OPTIC, HANGING	
	DFL.P	FLOW LINE		MEE	EASEMENT, EXISTING		RRSLS.P	RAIL, SURVEY, LARGE SCALE		UFOO	FIBER OPTIC, OVERHEAD	
	DSSD	SLOTTED DRAIN		MEP.P	EASEMENT, PERMANENT		RRSSS	RAIL, SURVEY, SMALL SCALE		UG	GAS, UNDERGROUND	
	DUD.P	UNDERDRAIN		MEPA.P	EASEMENT, PERMANENT, APPROX.		SIGNS				UGH	GAS, HANGING
ENVIRONMENTAL				MET.P	EASEMENT, TEMPORARY		SBLB	BILLBOARDS		UGO	GAS, OVERHEAD	
	EBLHS	BALE, STRAW		META.P	EASEMENT, TEMPORARY, APPROX.		SM	MULTIPLE POST		UIC	INFORM CABLE, UNDERGROUND	
	ECT	CURTAIN, TURBIDITY		MF.P	FEE ACQUISITION, W/ ACCESS		SSO	STRUCTURE, OVERHEAD		UICH	INFORM CABLE, HANGING	
	EDMC	DAM, COFFER		MFA.P	FEE ACQUISITION, APPROXIMATE		SSOC	STRUCTURE, OVHD. CANTILEVER		UO	OIL LINE, UNDERGROUND	
	EDMEC.P	DAM, EARTHEN CHECK		MFS.P	FEE ACQUISITION, SHAPE		STRIPING				UOH	OIL LINE, HANGING
	EDMGSC.P	DAM, GRAVEL BAG/SAND BAG CHECK		MFWOA.P	FEE ACQUISITION, W/O ACCESS		STB*	BROKEN LINE		UPBP	POLE, BRACE, PUSH BRACE	
	EDMPC.P	DAM, PREFABRICATED CHECK		MHA	HISTORICAL, ACQUISITION		STDB*	DOUBLE BROKEN LINE		UPGW	POLE, GUY WIRE	
	EDMSC.P	DAM, STONE CHECK		MHB	HIGHWAY BOUNDARY		STDL*	DOTTED LINE LONG		USA	SANITARY SEWER, UNDERGROUND	
	EFNS	FENCE, SILT		MHBA	HIGHWAY BOUNDARY, APPROX.		STDS*	DOTTED LINE SHORT		USAH	SANITARY SEWER, HANGING	
	EFNSV	FENCE, SILT & VEGETATION		MHBW	HWY BOUNDARY, FACE OF WALL		STFB*	FULL BARRIER LINE		USAF	SANITARY SEWER, FORCE MAIN, UGND	
	EFNV	FENCE, VEGETATION		MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STH*	HATCH LINE		USAFH	SANITARY SEWER, FORCE MAIN, HANG	
	EWAA.P	WETLAND, ADJACENT AREA		MJC	JURISDICTION, CITY		STPB*	PARTIAL BARRIER LINE		UT	TELEPHONE, UNDERGROUND	
	EFW	WETLAND, FEDERAL		MJCY	JURISDICTION, COUNTY		STP*	STOP BAR		UTH	TELEPHONE, HANGING	
	EFWS	WETLAND, FEDERAL AND STATE		MJHD	JURISDICTION, HISTORIC DISTRICT		STRCT	ROUNDABOUT, CAT TRACKS		UTO	TELEPHONE, OVERHEAD	
	EWM	WETLAND, MITIGATION AREA		MJLL	JURIS., (GREAT, MILITARY) LOT LINE		STRYL	ROUNDABOUT, YIELD LINE		UTV	CABLE TV, UNDERGROUND	
	EWS	WETLAND, STATE		MJN	JURISDICTION, NATION		STSB	STOP BAR		UTVH	CABLE TV, HANGING	
				MJPB	JURISDICTION, PUBLIC LANDS		STSE*	SOLID, EDGE		OCTV	CABLE TV, OVERHEAD	
				MJS	JURISDICTION, STATE		STXL	X WALK, LADDER LINE		UUU	UNKNOWN, UNDERGROUND	
				MJTB	JURISDICTION, TOWN		STXLB	X WALK, LADDER BAR LINE		UUH	UNKNOWN, HANGING	
				MJVB	JURISDICTION, VILLAGE						UUO	UNKNOWN, OVERHEAD
				MPL	PROPERTY LOT LINE						UW	WATER LINE, UNDERGROUND
				MPLA	PROPERTY LOT LINE, APPROXIMATE						UWH	WATER LINE, HANGING
				MSL	SUB LOT LINE						UWO	WATER LINE, OVERHEAD
							TCSW	SIGNAL, SPAN WIRE				

- NOTES:**
- 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.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				
	TOWN OF ELIZABETHTOWN			LEGEND LINE SYMBOLOGY	DRAWING NO. LE-2
	COUNTY: ESSEX REGION: 1				SHEET NO. 4
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			H&T Engineering, PLLC	Town of Elizabethtown	FEMA

PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY

GENERAL NOTES:

DESIGN SPECIFICATIONS: NYSOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF THE TIME OF ADVERTISEMENT (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, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING.

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 ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

THE LOAD RATINGS ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION.

FOUNDATION NOTES:

ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.

EMBANKMENT MATERIAL AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.

THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 203.21 SELECT STRUCTURE FILL.

SUBSTRUCTURE NOTES:

THE CONTRACTOR, WITH THE PERMISSION OF THE E.I.C. MAY ELECT TO INTRODUCE CONSTRUCTION JOINTS IN THE ABUTMENTS AT LOCATIONS NOT SHOWN ON THE PLANS. THESE CONSTRUCTION JOINTS SHALL BE PROVIDED WITH SHEAR KEYS AND WATERSTOPS. VERTICAL CONSTRUCTION JOINTS INTRODUCED IN THE BACKWALL SHOULD PREFERABLY BE PLACED MIDWAY BETWEEN THE PEDESTALS.

THE COST OF ALL MATERIAL AT EACH CONSTRUCTION JOIN, CONTRACTION JOINT AND CONCRETE EXPANSION JOINT SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

SUPERSTRUCTURE NOTES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 202-3.01 GENERAL AND SAFETY REQUIREMENTS. A LIFTING PLAN SHALL BE SUBMITTED TO THE ENGINEER FIFTEEN (15) DAYS PRIOR TO BEGINNING THE ERECTION.

TOP SURFACES OF NEW BRIDGE DECKS AND APPROACH SLABS SHALL BE SEALED ACCORDING TO ITEM 559.01 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS AND ITEM 559.02 - PROTECTIVE SEALING OF NEW STRUCTURAL CONCRETE.

DUE TO THE PROXIMITY OF HIGH VOLTAGE OVERHEAD ELECTRIC LINES, UTILIZING CRANES FOR THE ERECTION OF THE SUPERSTRUCTURE IS NOT POSSIBLE. CONTRACTOR SHALL ANTICIPATE UTILIZING EXCAVATORS IN CONJUNCTION WITH SLIDER BEAMS OR OTHER MEANS OF TEMPORARY WORKS IN THE ERECTION OF THE PRESTRESSED BEAMS.

REMOVAL NOTES:

EXISTING STRUCTURES SHALL BE REMOVED UNDER ITEM 202.19.

THERE ARE NO AREAS WITHIN THE CONTRACT LIMITS AVAILABLE FOR DISPOSAL OF DEBRIS.

HIGH VOLTAGE ELECTRICAL LINES ARE IN PROXIMITY TO THIS CULVERT.

REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR CONTRACTOR SAFETY REQUIREMENTS.

COFFERDAM NOTES:

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.

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-IN-CHARGE. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.

ORDINARY HIGH-WATER ELEVATION IS ESTIMATED TO BE 550.5 FT. ORDINARY HIGH-WATER IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD WHICH HAS A RECURRENCE INTERVAL OF 2.33 YEARS.

ORDINARY WATER ELEVATION IS ESTIMATED TO BE 549.81 FT. THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING THE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN THE ORDINARY HIGH-WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

IF PROPOSING TO USE A TEMPORARY STREAM DIVERSION STRUCTURE IN LIEU OF COFFERDAMS, THE CONTRACTOR SHALL SUBMIT TEMPORARY STREAM DIVERSION STRUCTURE PLANS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. PAYMENT WILL BE MADE UNDER THE COFFERDAM ITEMS.

CONTROL OF INVASIVE SPECIES:

ALL CONSTRUCTION EQUIPMENT SHALL BE PRESSURE WASHED TO REMOVE SOIL CLUMPS AND DEBRIS PRIOR TO SHIPPING TO THE PROJECT SITE.

ALL SEED SPECIES (EXCEPT ANNUAL RYE AND PERENNIAL RYE GRASSES) SHALL BE NATIVE TO NEW YORK STATE. SEED SHALL MEET THE REQUIREMENTS OF NYSOT MATERIAL SPECIFICATION 713-04 SEEDS.

CONTRACTOR SHALL MAINTAIN ALL SEEDED AREAS AGAINST INVASION AND GROWTH OF INVASIVE, NON-NATIVE SPECIES. PURPLE LOOSE STRIFE (LYTHRUM SALICARIA), COMMON REED (PHRAGMITES AUSTRALIS), AND REED CANARY-GRASS (PHALARIS ARUNDINACEA) SHALL BE DUG OR CAREFULLY PULLED IN ORDER TO GET ALL ROOTS WHEN OBSERVED INVADING THE SITE.

NO HAY BALES SHALL BE PERMITTED ON PROJECT SITE. STRAW BALES, WHICH MEET THE REQUIREMENTS OF NYSOT MATERIAL SPECIFICATION 713-19 STRAW SHALL BE PERMITTED ON PROJECT SITE.

MULCH SHALL MEET THE REQUIREMENTS OF NYSOT MATERIAL SPECIFICATION 713-11 WOOD FIBER MULCH.

TREE REMOVALS:

THE CONTRACTOR SHALL USE CARE SO AS NOT TO REMOVE OR DAMAGE EXISTING TREES THAT ARE NOTED "TO REMAIN" OR ANY ADDITIONAL TREES BEYOND THE LIMITS OF WORK. SHOULD REMOVAL OR DAMAGE OCCUR TO ANY TREES THAT ARE BEYOND THE LIMITS OF WORK OR ANY TREES NOTED "TO REMAIN", THEY SHALL BE REPLACED IN-KIND BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE COUNTY.

TREE CUTTING DATES ARE RESTRICTED TO NOVEMBER 1ST THROUGH MARCH 31ST.

REINFORCEMENT BAR LIST:

NO BAR LIST IS PROVIDED FOR SUPERSTRUCTURE SLABS, APPROACH SLABS, SUBSTRUCTURE WORK, AND/OR SIDEWALKS. SECTION 557-3.17 OF THE SPECIFICATION SHALL APPLY, EXCEPT THAT THE CONTRACTOR WILL TRANSMIT THE DOCUMENTS TO THE ENGINEER FOR REVIEW FOR CONFORMANCE WITH THE DESIGN REQUIREMENTS IN THE CONTRACT DOCUMENTS. A REVIEW TIME OF TWO DAYS PER PLACEMENT DRAWING SUBMITTED WITH A MINIMUM OF 15 DAYS FOR EACH SUBMISSION WILL BE ALLOWED UPON RECEIPT OF THE SUBMISSION. THE ENGINEER WILL NOT BE CHECKING LENGTHS, NUMBER OF BARS, WEIGHTS, OR BAR MARKS. CORRECTIONS WILL BE RETURNED TO THE CONTRACTOR. WHEN THE DOCUMENTS ARE SATISFACTORY THEY WILL BE RETURNED TO THE CONTRACTOR STAMPED "APPROVED IN ACCORDANCE WITH DESIGN REQUIREMENTS". PLACEMENT DRAWINGS REQUIRED SHALL INCLUDE PLAN VIEW DRAWINGS, SECTION VIEWS, TRANSVERSE SECTIONS, AND ANY OTHER DETAILS REQUIRED TO CLARIFY THE REBAR PLACEMENT.

HIGHWAY MAINTENANCE:

UPON COMPLETION AND ACCEPTANCE OF THIS CONTRACT, THE HIGHWAY WILL BE MAINTAINED BY THE TOWN OF ELIZABETHTOWN AND THE BRIDGE WILL BE MAINTAINED BY THE ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS.

EROSION, SEDIMENTATION AND TURBIDITY CONTROLS:

ALL WORK IN A FLOWING STREAM MUST BE KEPT TO A MINIMUM AND THE STREAM WATERS MUST BE PUMPED, PIPED OR OTHERWISE DIVERTED AROUND, OR SEPARATED FROM, THE WORK AREA. STRAW BALES OR OTHER DEVICES PLACED ACROSS THE STREAM DOWNSTREAM OF THE WORK SITE ARE NOT ACCEPTABLE POLLUTION CONTROLS. ALL WATER PUMPED FROM COFFERDAMS, SETTLING BASINS, OR OTHER WORK AREAS MUST NOT BE ALLOWED TO FLOW BACK INTO A STREAM UNLESS IT IS FIRST FILTERED UNTIL IT IS AS CLEAN (NON-TURBID) AS THE STREAM WATERS FLOWING UPSTREAM OF THE WORK SITE.

UNDER NO CIRCUMSTANCES ARE WET CONCRETE, CEMENT, WASHINGS FROM CEMENT TRUCKS, OILS, FUELS OR OTHER POLLUTANTS ALLOWED TO ENTER THE STREAM. ACCIDENTAL SPILLS ARE TO BE IMMEDIATELY CLEANED UP. ALL PETROLEUM SPILLS SHALL BE REPORTED AS REQUIRED BY REGULATION. THE STREAM BELOW THE WORK SITE SHALL BE AS CLEAR AS THE STREAM ABOVE THE WORK SITE.

WORK SHALL BE PERFORMED FROM THE STREAM BANKS TO THE EXTENT POSSIBLE TO MINIMIZE THE USE OF EQUIPMENT IN THE STREAM. UNDER NO CIRCUMSTANCES IS EQUIPMENT TO OPERATE IN FLOWING WATER UNLESS AUTHORIZED IN WRITING OR BY ON-SITE DEC REPRESENTATIVE. GRAVEL REMOVED FROM A STREAM BED MUST BE PLACED BEYOND THE REACH OF NORMAL HIGH WATER. GRAVEL SHALL NOT BE PUSHED UP ON STREAM BANKS OR SLOPES UNLESS SPECIFICALLY AUTHORIZED IN WRITING, NOR SHALL ANY BE USED TO CONSTRUCT ANY DIKE, LEVEE, BERM OR OTHER OBSTRUCTION TO HIGH FLOWS. ALL WASTE MATERIAL (RUBBLE, SAND BLASTING AND CHIPPING WASTES AND RESIDUES, ETC.) RESULTING FROM CONSTRUCTION MUST BE COLLECTED AND MOVED TO AN APPROVED DISPOSAL AREA. NO MATERIAL SHALL BE ALLOWED TO ENTER, EITHER DIRECTLY OR INDIRECTLY, INTO ANY STREAM OR ANY FRESHWATER WETLAND.

ALL DISTURBED PORTIONS OF THE WORK AREA AND STREAM BANKS MUST BE GRADED TO A STABLE SLOPE, AND EITHER RIP-RAPPED OR PLANTED WITH SUITABLE GRASSES, SHRUBS OR LEGUMES, AND/OR SEEDED WITH A CONSERVATION TYPE GRASS MIXTURE AND MULCHES. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER HAS BEEN ESTABLISHED. LIME AND FERTILIZER SHALL BE USED AS REQUIRED.

STREAM PROTECTION NOTES:

BARTON BROOK IS CLASSIFIED AS CLASS AA (T) BODY OF WATER

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.

THE CONTRACTOR SHALL ACCOMPLISH IN-STREAM WORK DURING THE PERIOD BETWEEN MAY 1ST AND SEPTEMBER 30TH. COFFERDAMS IN THE STREAM CHANNEL AND/OR STREAM DIVERSIONS OF THE CHANNEL SHALL NOT BE ALLOWED PRIOR TO MAY 15TH AND AFTER SEPTEMBER 30TH WITHOUT PRIOR WRITTEN APPROVAL FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. IF USED, COFFERDAMS AND STREAM DIVERSIONS SHALL BE SIZED WITH REGARD TO THE SEASONAL FLOW OF THE STREAM EXPECTED FOR THE TIME THEY ARE TO BE IN USE.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ACOE NATIONWIDE PERMIT AND NYSDEC PERMIT #5-1524-00176/00001. PERMIT IS INCLUDED IN THE PROJECT MANUAL.

IF PUMPS ARE USED AT THE END OF THE WORK DAY OR BEFORE HEAVY ANTICIPATED FLOWS, THE CONTRACTOR SHALL ESTABLISH AN UNOBSTRUCTED CHANNEL AREA SUFFICIENT TO ACCOMMODATE THE FLOW. THE CONTRACTOR SHALL SUBMIT A PROCEDURE FOR APPROVAL TO THE ENGINEER-IN-CHARGE.

RIGHT OF WAY NOTES:

ALL PERMANENT ELEMENTS OF THE STRUCTURE WILL REMAIN WITHIN TOWN OF ELIZABETHTOWN OWNED RIGHT-OF-WAY. TEMPORARY EASEMENTS WILL BE OBTAINED IN ORDER TO GAIN ACCESS TO INSTALL THESE PERMANENT ELEMENTS.

THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW & TEMPORARY EASEMENTS, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.

IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625). THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORY REPAIRED OR ITEMS PLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

UTILITY NOTES:

IT SHALL BE NOTED THAT WATER MAINS, COMMUNICATION LINES AND OVERHEAD ELECTRIC LINES MAY BE ENCOUNTERED DURING CONSTRUCTION OF THE PROJECT. EXTREME CARE SHALL BE EXERCISED TO AVOID DAMAGE TO THESE SYSTEMS. ANY DAMAGE TO THESE FACILITIES SHALL BE REPORTED TO THE TOWN OF ELIZABETHTOWN AND THE OWNER OF THE UTILITY AND BE REPAIRED AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE TOWN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION OPERATIONS WITH AFFECTED UTILITY COMPANIES AND AGENCIES.

UNDERGROUND UTILITIES EXIST ON THIS PROJECT. THE PLANS DEPICT THE BEST INFORMATION AVAILABLE OF THE ABANDONED AND ACTIVE SYSTEMS. SEE GENERAL PLAN SHEET FOR EXISTING AND PROPOSED UTILITY LOCATIONS.

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN				DRAWING NO. GN-1
COUNTY: ESSEX	REGION: 1	GENERAL NOTES		SHEET NO. 5	

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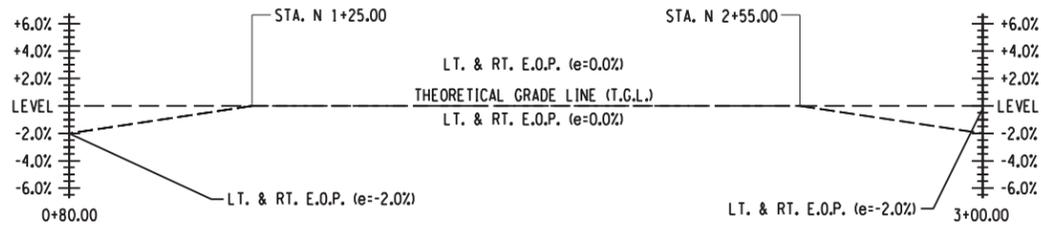
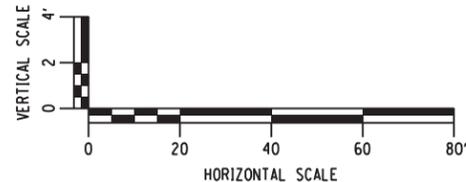
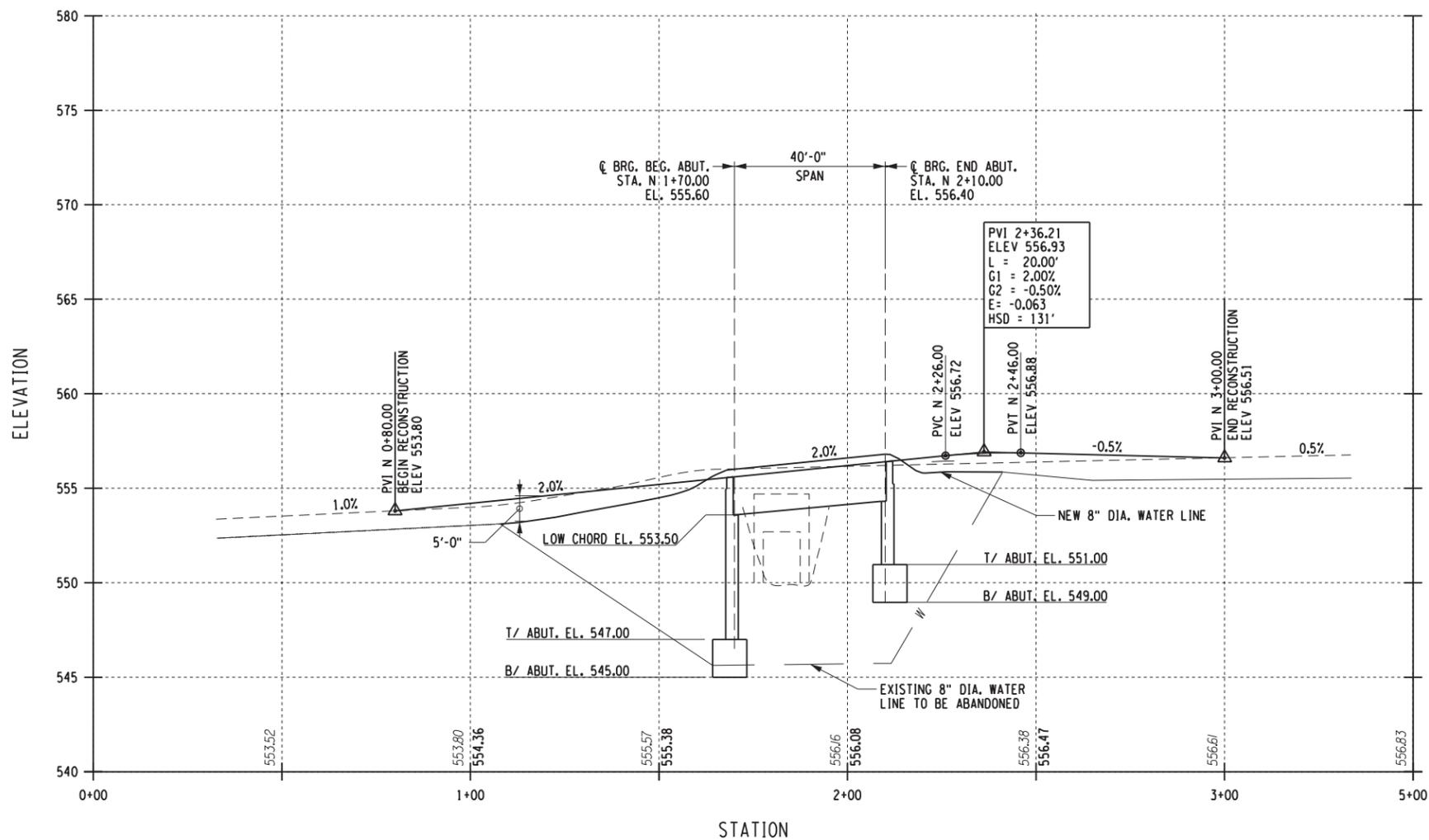
PROJECT MANAGER C. TUTUNJIAN

CHECKED BY I. PENGU

DRAFTED BY C. VICKERY

CHECKED BY I. PENGU

DESIGNED BY C. VICKERY



BANKING DIAGRAM

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

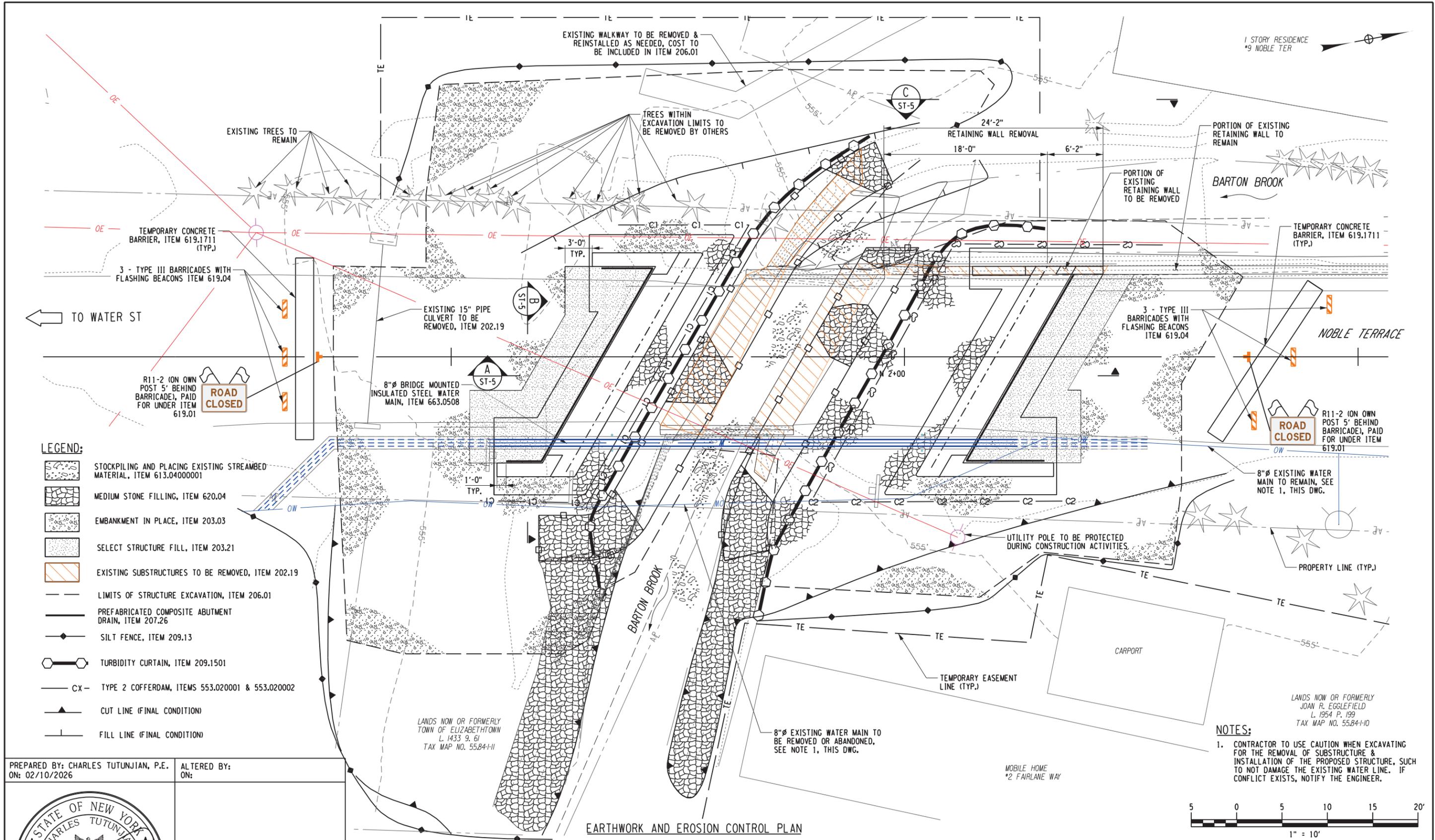
ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN			PROFILE	DRAWING NO. ST-3
	COUNTY: ESSEX REGION: 1				SHEET NO. 8

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: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY

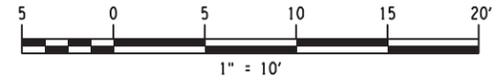


- LEGEND:**
- STOCKPILING AND PLACING EXISTING STREAMBED MATERIAL, ITEM 613.04000001
 - MEDIUM STONE FILLING, ITEM 620.04
 - EMBANKMENT IN PLACE, ITEM 203.03
 - SELECT STRUCTURE FILL, ITEM 203.21
 - EXISTING SUBSTRUCTURES TO BE REMOVED, ITEM 202.19
 - LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01
 - PREFABRICATED COMPOSITE ABUTMENT DRAIN, ITEM 207.26
 - SILT FENCE, ITEM 209.13
 - TURBIDITY CURTAIN, ITEM 209.1501
 - CX - TYPE 2 COFFERDAM, ITEMS 553.020001 & 553.020002
 - CUT LINE (FINAL CONDITION)
 - FILL LINE (FINAL CONDITION)

PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026
 ALTERED BY:
 ON:



EARTHWORK AND EROSION CONTROL PLAN



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED EARTHWORK AND EROSION CONTROL PLAN	CONTRACT NUMBER DR 4814 PROJECT NUMBER: 766429
	CULVERT REPLACEMENT PROJECT TOWN OF ELIZABETH TOWN COUNTY: ESSEX REGION: 1				DRAWING NO. ST-4 SHEET NO. 9

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.

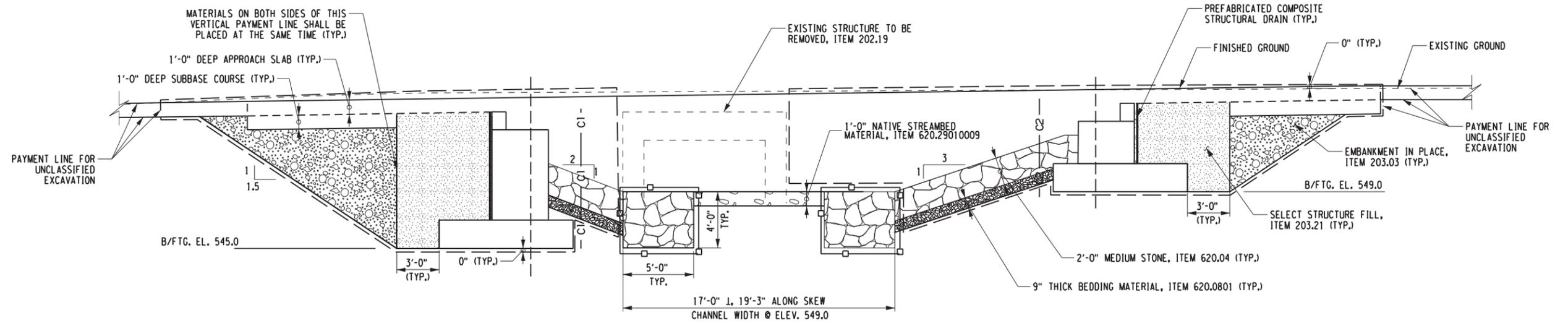
PROJECT MANAGER: C. TUTUNJIAN

CHECKED BY: I. PENGU

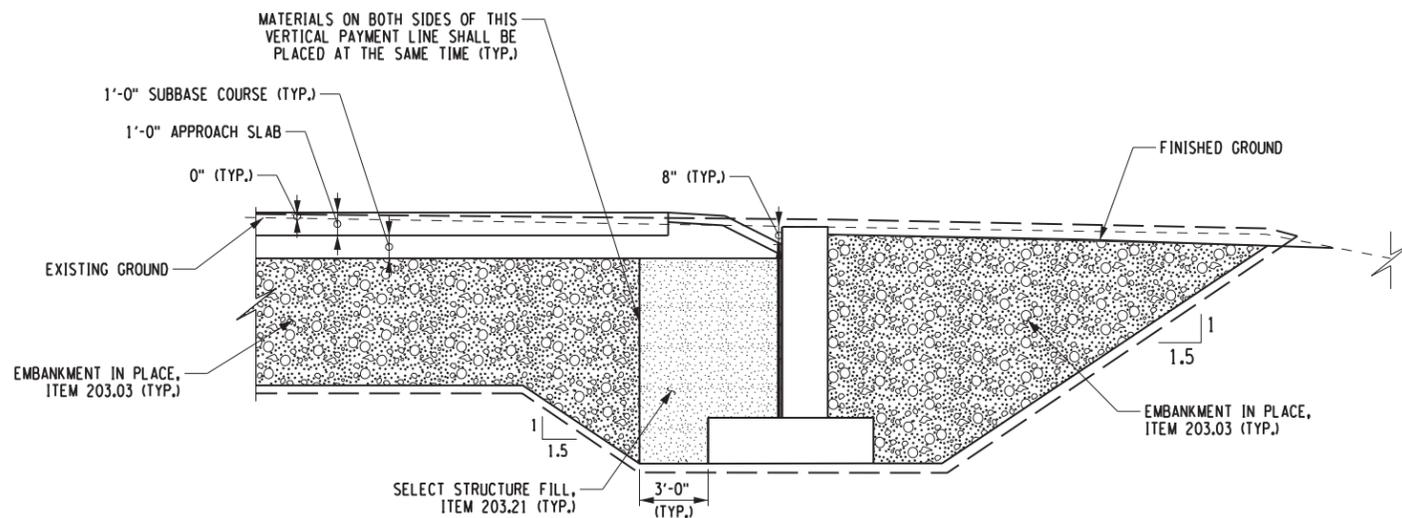
DRAFTED BY: C. VICKERY

CHECKED BY: I. PENGU

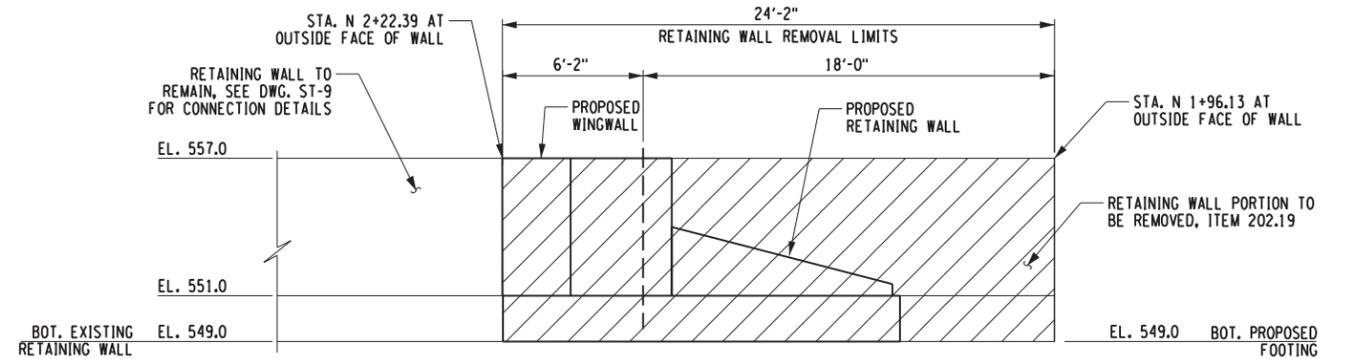
DESIGNED BY: C. VICKERY



A ABUTMENT EARTHWORK SECTION
 ST-4 SCALE: 1/8" = 1'-0"



B TYPICAL WINGWALL EARTHWORK SECTION
 ST-4 SCALE: 1/8" = 1'-0"



C RETAINING WALL REMOVAL SECTION
 ST-4 SCALE: 1/8" = 1'-0"

LEGEND:

- SELECT STRUCTURE FILL, ITEM 203.21
- EMBANKMENT IN PLACE, ITEM 203.03
- STONE FILLING (MEDIUM), ITEM 620.04
- STOCKPILING AND PLACING EXISTING STREAMBED MATERIAL, ITEM 613.04000001
- BEDDING MATERIAL, TYPE 1 (ITEM 620.0801)
- RETAINING WALL REMOVAL LIMITS, ITEM 202.19

LEGEND CONT.:

- COFFERDAM TYPE 2, ITEMS 553.020001 & 553.020002
- EXISTING GROUND SURFACE
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
- LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01
- TRENCH AND CULVERT EXCAVATION, ITEM 206.0201

PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026

ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

NOBLE TERRACE OVER BARTON BROOK
 CULVERT REPLACEMENT PROJECT

TOWN OF ELIZABETHTOWN

COUNTY: ESSEX

REGION: 1

BRIDGES
 BIN TBD

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

EARTHWORK SECTIONS

CONTRACT NUMBER
 DR 4814
 PROJECT NUMBER: 766429
 DRAWING NO. ST-5
 SHEET NO. 10

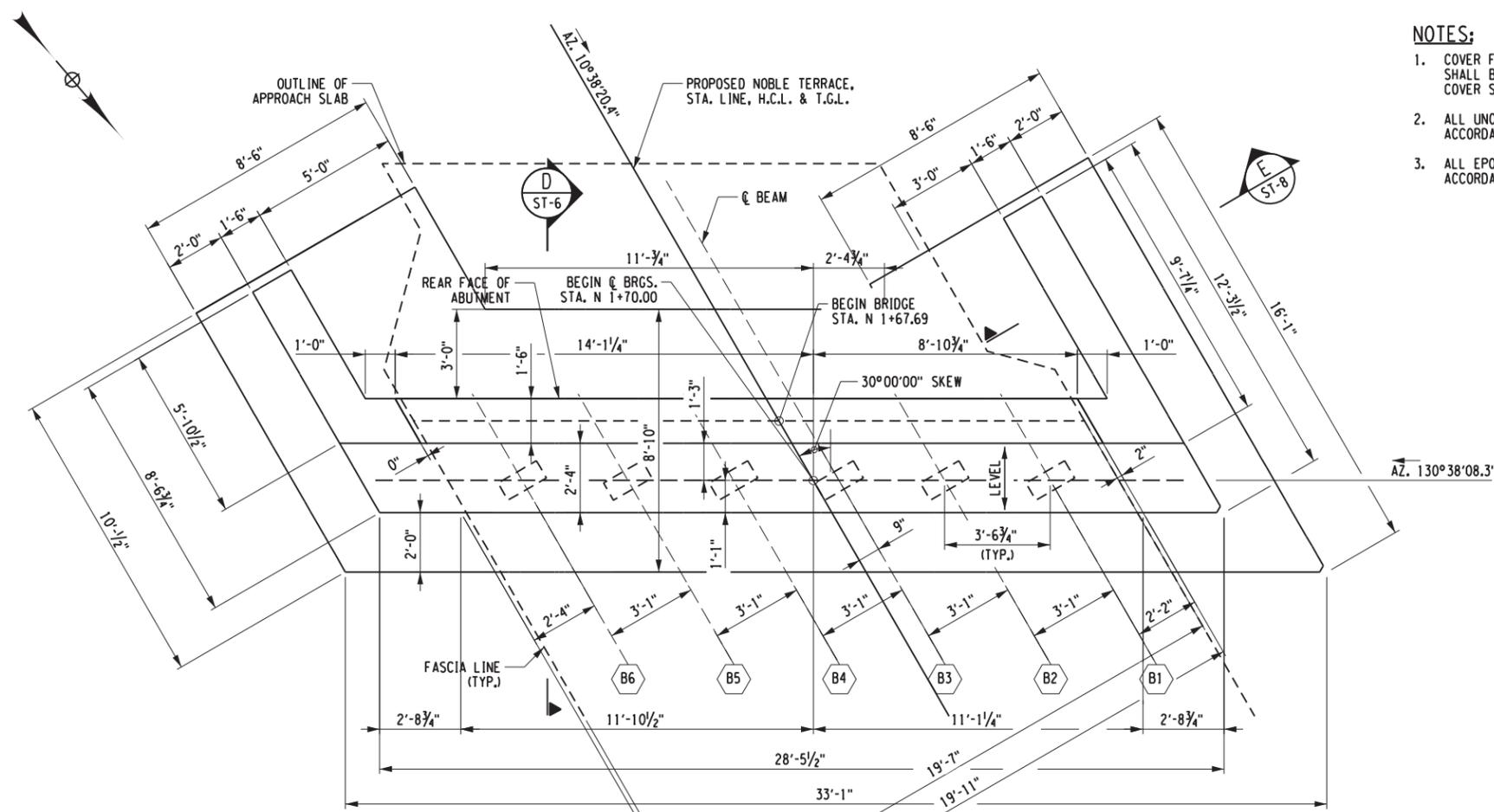
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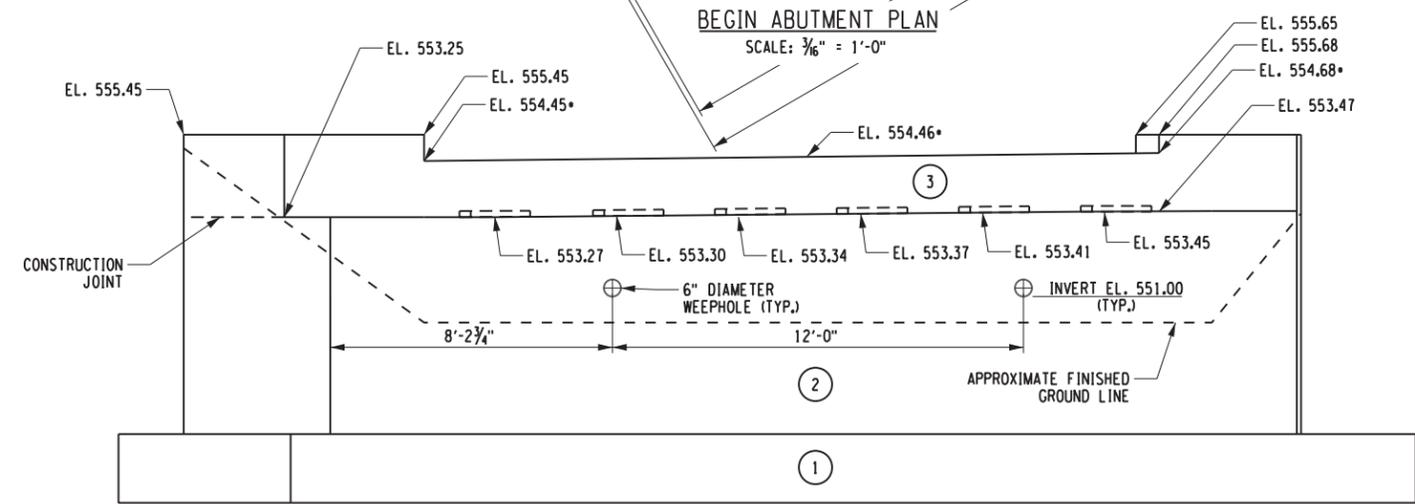
Town of Elizabethtown



PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



BEGIN ABUTMENT PLAN
SCALE: 3/16" = 1'-0"



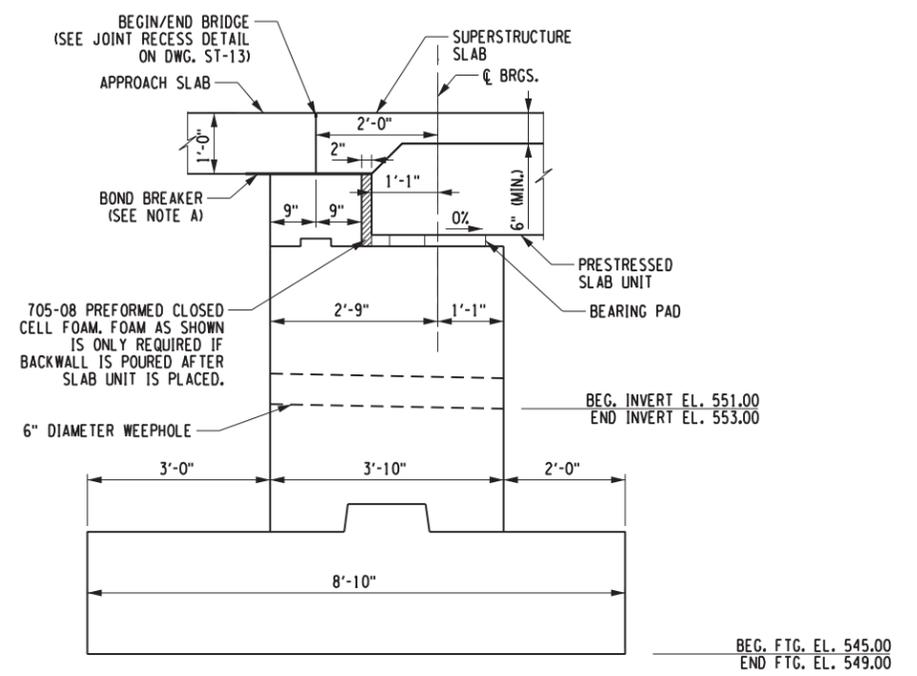
BEGIN ABUTMENT ELEVATION
SCALE: 3/16" = 1'-0"

• ELEVATION AT FRONT FACE OF BACKWALL

NOTES:

- COVER FOR ALL STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
- ALL UNCOATED REINFORCEMENT BARS SHALL IN ACCORDANCE WITH ITEM 556.0201.
- ALL EPOXY COATED REINFORCEMENT BARS SHALL BE IN ACCORDANCE WITH ITEM 556.0202.

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
1	25.3 CY	555.0021
2	30.2 CY	555.0021
3	3.8 CY	555.0021

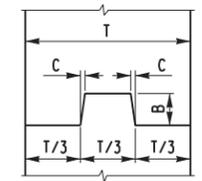


ABUTMENT SECTION
SCALE: 1" = 3'-0"

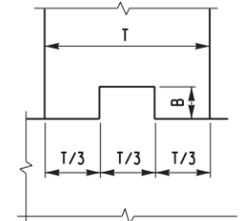
NOTE: BRIDGE SEAT ELEVATIONS ARE AT CENTERLINE OF BEARING.

LEGEND:

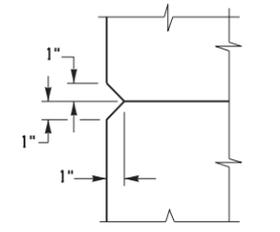
- (B1) - INDICATES BEAM NUMBER
- (1) - INDICATES CONCRETE PLACEMENT NUMBER



VERTICAL
NOT TO SCALE



HORIZONTAL
NOT TO SCALE



CHAMFER DETAIL
NOT TO SCALE

CONSTRUCTION & CONTRACTION JOINTS		
C	B	T/3
3/16"	1 1/2"	0" - 6"
3/8"	3 1/2"	6" - 10"
3/4"	5 1/2"	10" & OVER

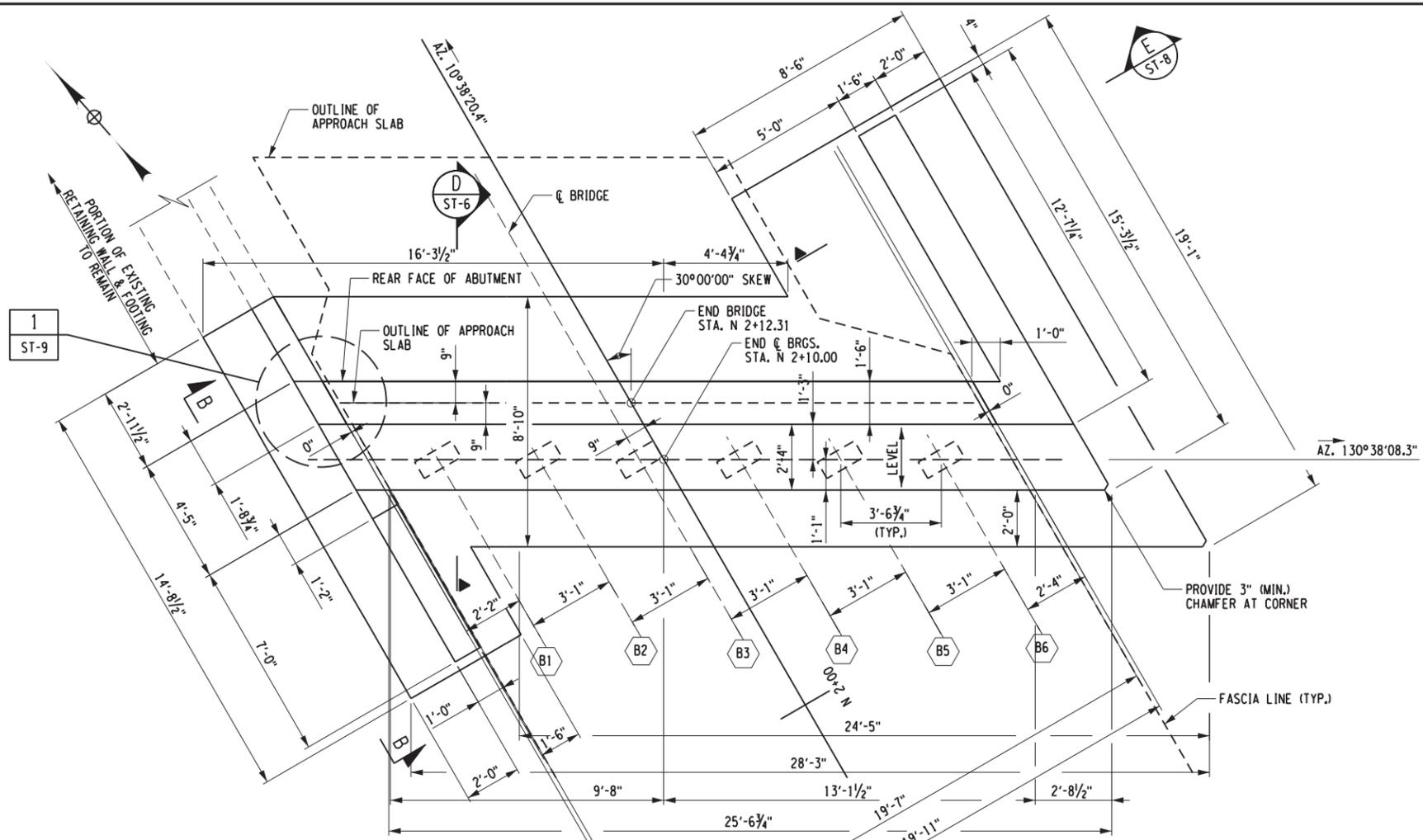
PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026
ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETH TOWN				DRAWING NO. ST-6
	COUNTY: ESSEX REGION: 1				SHEET NO. 11

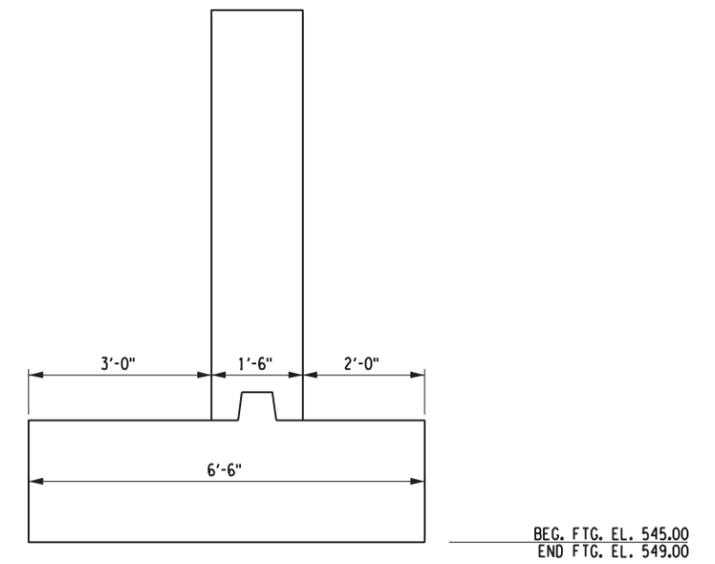
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PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY

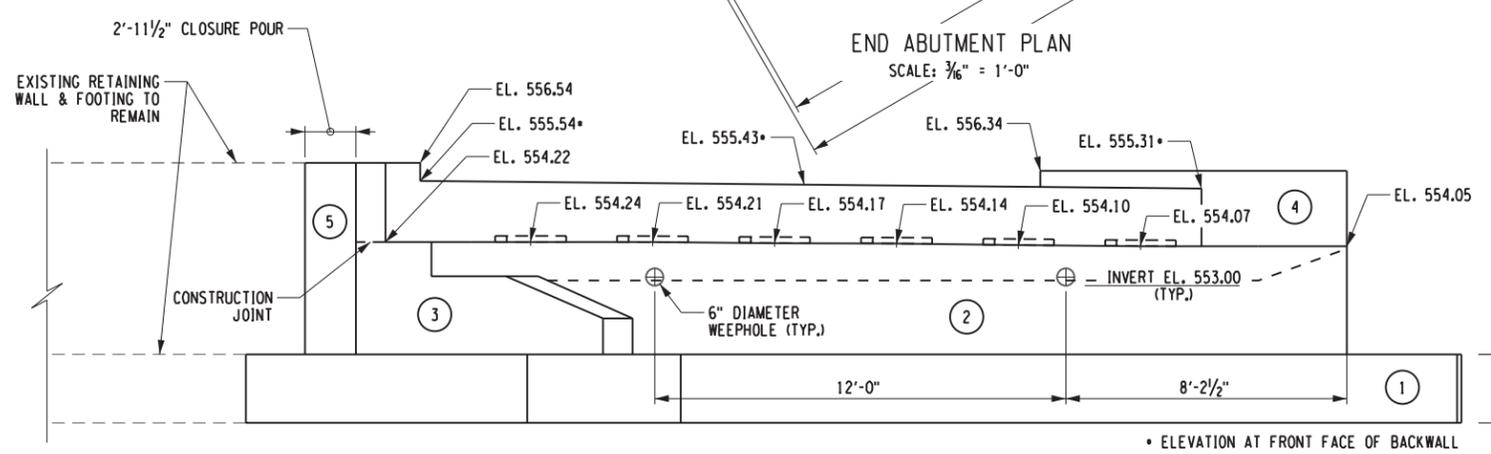


NOTES:
 1. SEE DW. ST-6 FOR NOTES.

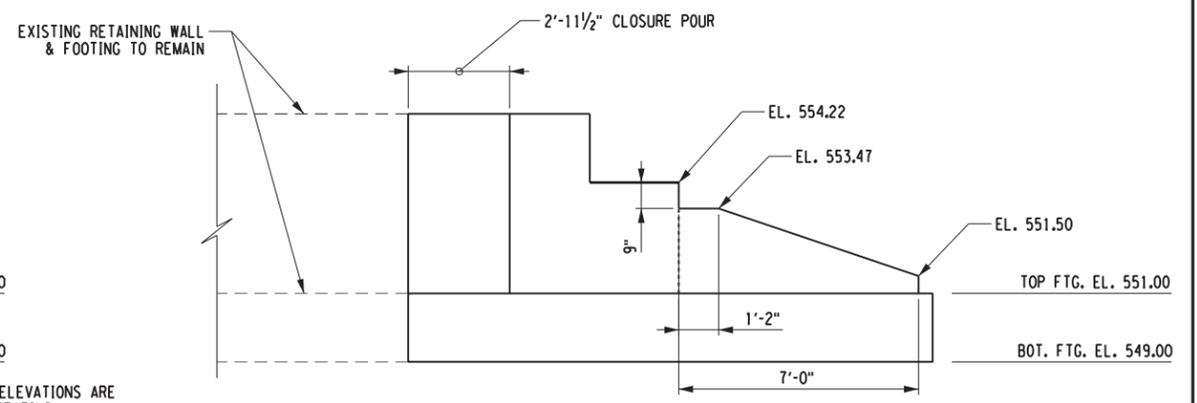
CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
1	26.1 CY	555.0021
2	14.5 CY	555.0021
3	0.5 CY	555.0021
4	3.4 CY	555.0021
5	0.6 CY	555.0021



WINGWALL SECTION
 SCALE: 1" = 3'-0"



END ABUTMENT ELEVATION
 SCALE: 3/16" = 1'-0"



END LEFT CHEEKWALL ELEVATION - BB
 SCALE: 3/16" = 1'-0"

NOTE: BRIDGE SEAT ELEVATIONS ARE AT CENTERLINE OF BEARING.

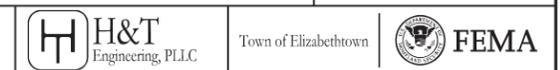
- LEGEND:**
- B1 - INDICATES BEAM NUMBER
 - 1 - INDICATES CONCRETE PLACEMENT NUMBER

PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026
 ALTERED BY:
 ON:

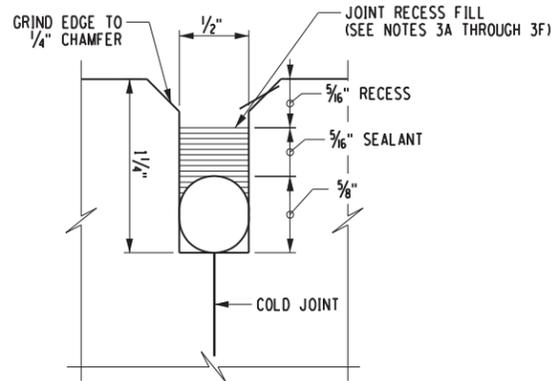
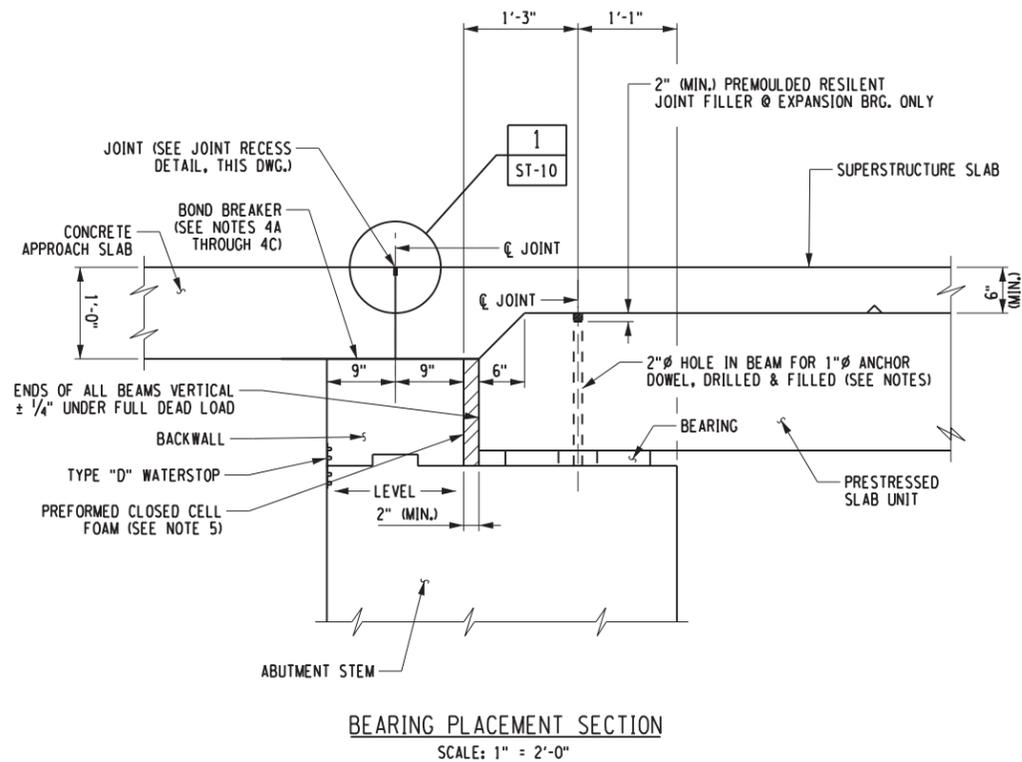


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN				DRAWING NO. ST-8
	COUNTY: ESSEX REGION: 1				SHEET NO. 13

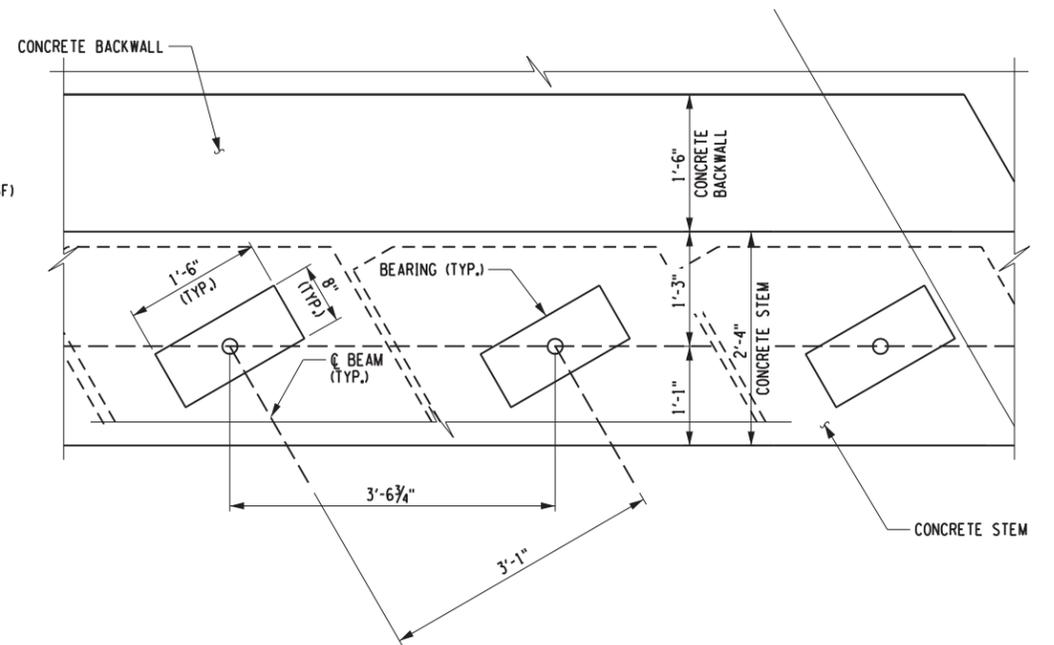
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PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



1 JOINT RECESS DETAIL
ST-10 (NOT TO SCALE)



TYPICAL BEARING LAYOUT
SCALE: 1" = 2'-0"

**SEQUENCE OF CONSTRUCTION
SINGLE STAGE ADJACENT SLAB UNITS:**

1. PLACE BEARING AS SHOWN ON THE CONTRACT PLANS.
2. PLACE THE SLAB UNITS ON THE BEARINGS.
3. DRILL AND CLEAN DOWEL HOLES IN THE BRIDGE SEAT.
4. INSTALL ANCHOR DOWELS.
5. WASH SHEAR KEYS THOROUGHLY TO REMOVE FOREIGN MATERIAL. INSTALL BACKER RODS IN THE SHEAR KEYS.
6. GROUT AND CURE THE SHEAR KEYS WITH AN APPROVED GROUT MATERIAL FOLLOWING MANUFACTURER'S 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.

NOTES:

1. PREMOULDED RESILIENT JOINT FILLER SHALL MEET THE REQUIREMENTS OF 705.07 AND BE PAID FOR UNDER BEARING ITEM.
2. THE ENDS OF BEAMS AND ANCHOR DOWEL HOLES SHALL BE MADE VERTICAL $\pm 1/4"$ UNDER D.L. AND GRADE. DOWEL HOLE FILL MATERIAL SHALL MEET MATERIAL REQUIREMENTS AS FOLLOWS:
 - A. EXPANSION END MATERIAL SHALL MEET THE REQUIREMENTS OF N.Y.S. MAT. SPEC. 702-0700 - ASPHALT FILLER.
 - B. 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.

NOTES (CONT.):

3. JOINT RECESS FILL MATERIALS SHALL MEET MATERIAL REQUIREMENTS GIVEN IN THE PROCEDURE AS FOLLOWS:
 - A. FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, SILICONE SEALANT, FROM THE DEPARTMENT'S APPROVED LIST FOR ITEM 567.51-16.
 - B. IF THE RECESS IS SAW CUT, WATER BLAST IMMEDIATELY FOLLOWING CUTTING TO REMOVE ANY RESIDUAL SLURRY BEFORE IT DRIES.
 - C. CLEAN THE VERTICAL FACES OF THE RECESS BY ABRASIVE BLAST, AND AIR BLOW THE RESIDUE FROM THE RECESS.
 - D. PRIME THE VERTICAL FACES WITH THE MANUFACTURER'S RECOMMENDED PRIMER, AND ALLOW TO DRY.
 - E. PLACE A $3/8"$ DIA. SOFT CLOSED CELL BACKER ROD IN THE BOTTOM OF THE RECESS.
 - F. POUR THE SILICONE SEALANT TO A DEPTH OF APPROX. $3/16"$.
4. BOND BREAKER MATERIALS SHALL MEET MATERIAL REQUIREMENTS AS FOLLOWS:
 - A. TOP OF BACKWALL SHALL BE STEEL TROWEL FINISHED.
 - B. SHEET GASKET (TREATED ON BOTH SIDES) MATERIAL SPECIFICATION 728-06, SHALL BE PLACED ON THE TOP OF BACKWALLS.
 - C. TWO $1/16"$ THICK SHEETS SHALL BE USED.
5. PREFORMED CLOSED CELL FOAM SHALL BE SELECTED FROM NYS DOT APPROVED MATERIAL LIST, SPECIFICATION 705-08. FOAM AS SHOWN IS ONLY REQUIRED IF BACKWALL IS POURED AFTER SLAB UNIT IS PLACED.

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

ALTERED BY:
ON:



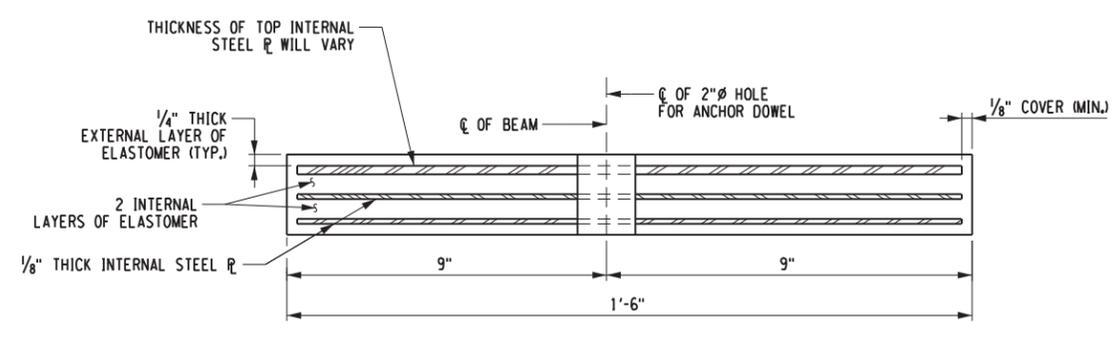
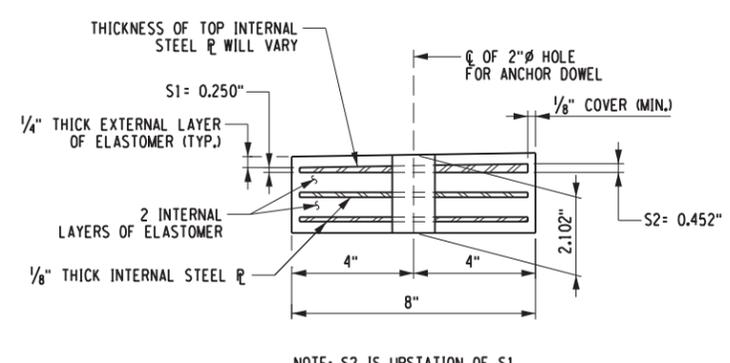
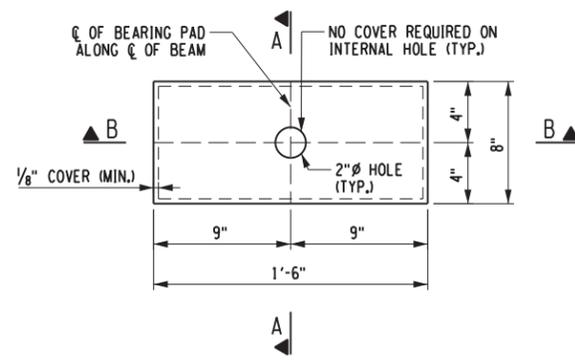
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK CULVERT REPLACEMENT PROJECT
	TOWN OF ELIZABETH TOWN
	COUNTY: ESSEX REGION: 1

BRIDGES BIN TBD	CULVERTS
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	
ABUTMENT MISCELLANEOUS DETAILS	

CONTRACT NUMBER DR 4814	PROJECT NUMBER: 766429
DRAWING NO. ST-10	SHEET NO. 15

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PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



NOTE: S2 IS UPSTATION OF S1.

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

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

LOCATION (Q)	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 (IN.)	COMP. AREA (SQ. IN.)	SHEAR AREA (SQ. IN.)	BEVELED LAYER		BRG. H (IN.) ***	ANCHOR DOWEL DIAMETER (IN.)
								THK/LAYER (IN.)	NO. LAYERS	L (IN.)	W (IN.)				S1	S2		
STA. N 1+70.00	FIX.	565.1921	6	22.9	13.6	36.47	4.834	0.5	2	8.0	18.0	1.50	137.56	144.00	0.250	0.452	2.102	1.0
STA. N 2+10.00	EXP.	565.1921	6	22.9	13.6	36.47	4.834	0.5	2	8.0	18.0	1.50	137.56	144.00	0.250	0.452	2.102	1.0

* LOADS ARE UNFACTORED
 ** S2 IS UPSTATION OF S1
 *** H IS TAKEN AT THE CENTERLINE OF THE 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.

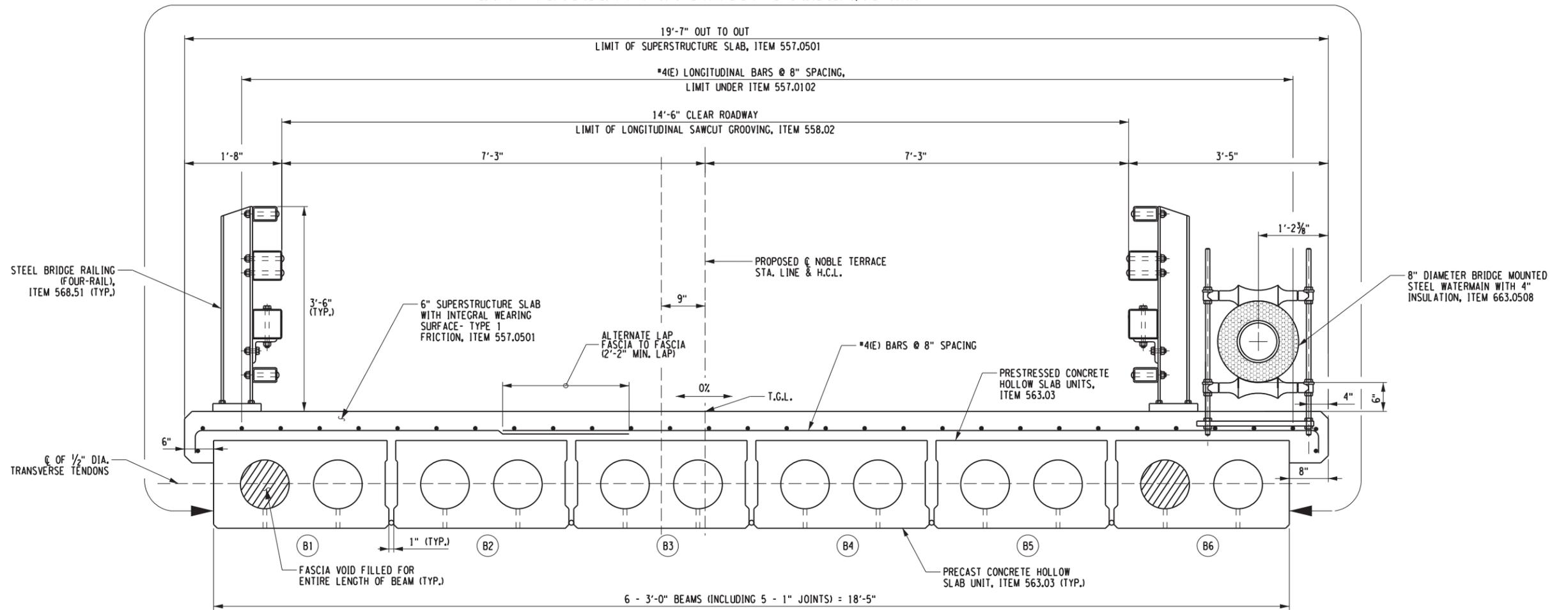
PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026
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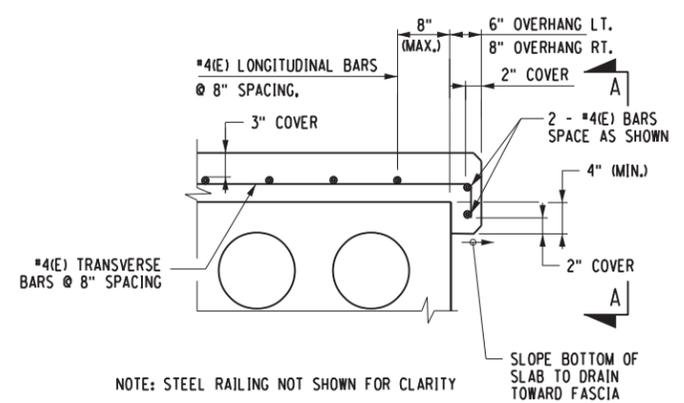
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	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN				DRAWING NO. ST-11
COUNTY: ESSEX	REGION: 1				SHEET NO. 16

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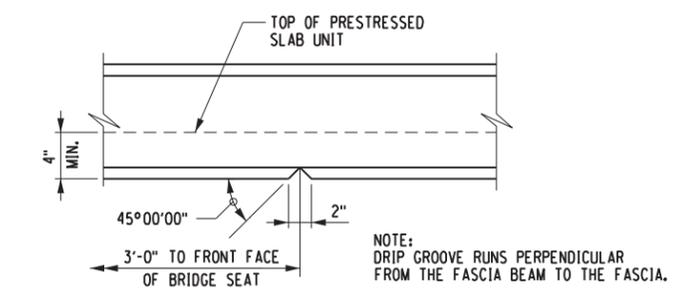
LIMIT OF PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS, ITEM 559.01



TYPICAL BRIDGE SECTION
SCALE: 1" = 2'-0"



CONCRETE DECK OVERHANG
(NOT TO SCALE)



ELEVATION A-A
(SHOWING DRIP GROOVE DETAIL)

PROJECT MANAGER: C. TUTUNJIAN
CHECKED BY: I. PENGU
DRAFTED BY: C. VICKERY
CHECKED BY: I. PENGU
DESIGNED BY: C. VICKERY

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN			BRIDGE TRANSVERSE SECTION	DRAWING NO. ST-12
	COUNTY: ESSEX REGION: 1				SHEET NO. 17

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.

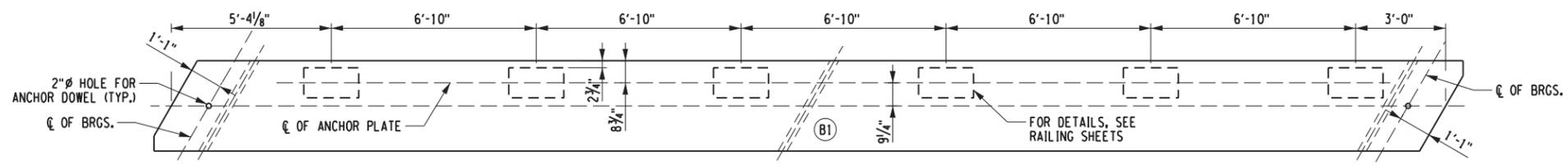
PROJECT MANAGER C. TUTUNJIAN

CHECKED BY I. PENGU

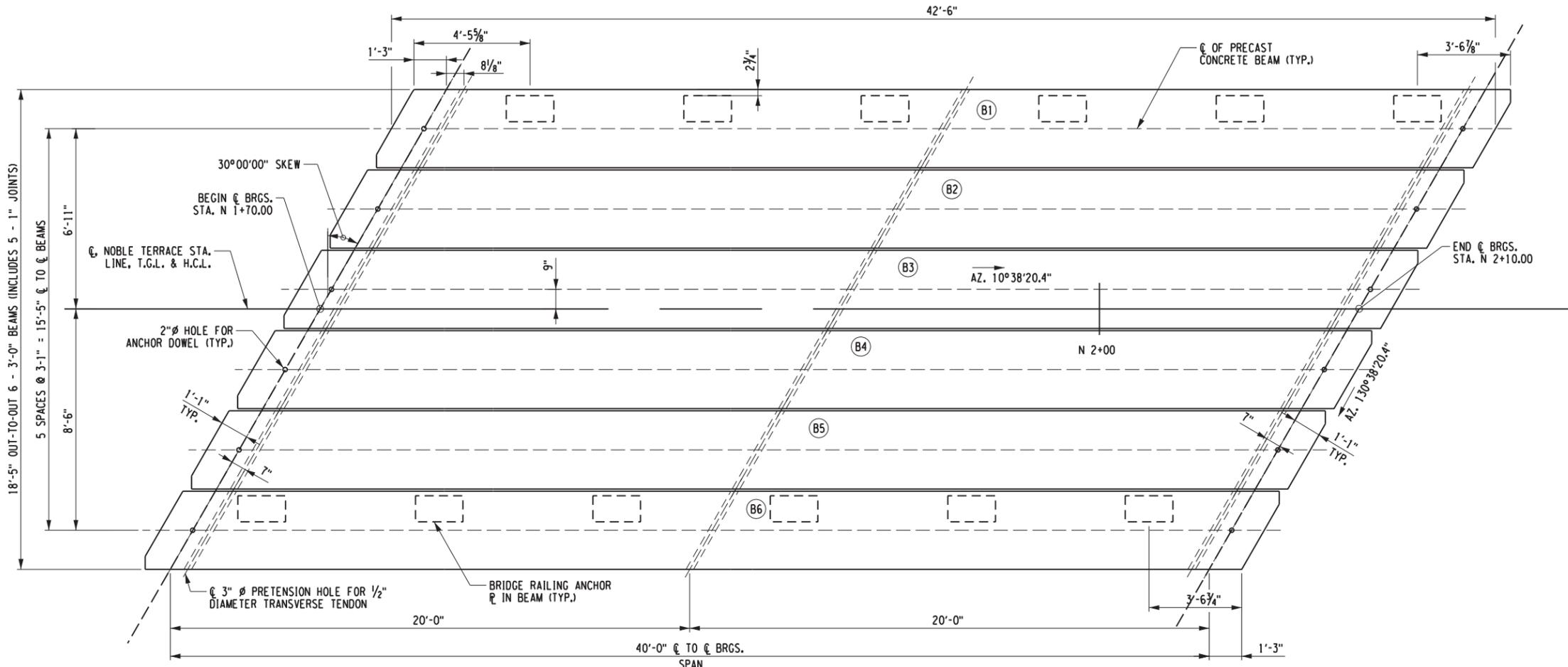
DRAFTED BY C. VICKERY

CHECKED BY I. PENGU

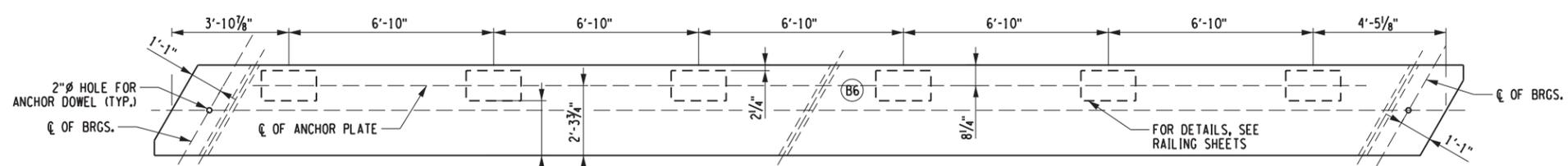
DESIGNED BY C. VICKERY



LEFT RAILING ANCHORAGE PLAN
SCALE: 1" = 5'-0"



FRAMING PLAN
SCALE: 1" = 5'-0"



RIGHT RAILING ANCHORAGE PLAN
SCALE: 1" = 5'-0"

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

ALTERED BY:
ON:

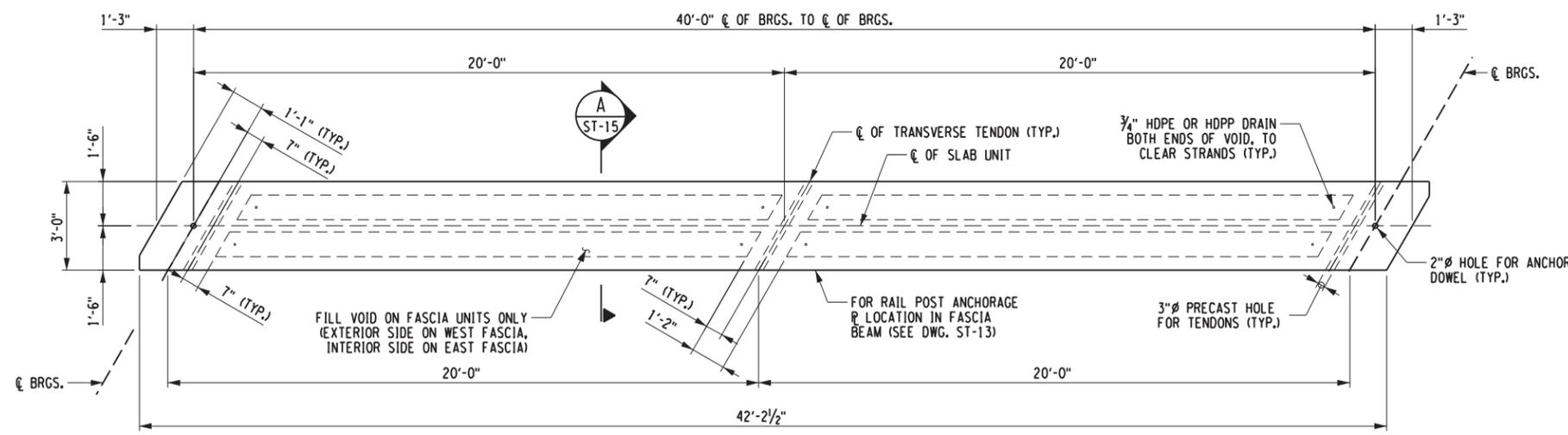


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN			FRAMING PLAN	DRAWING NO. ST-13
	COUNTY: ESSEX REGION: 1				SHEET NO. 18

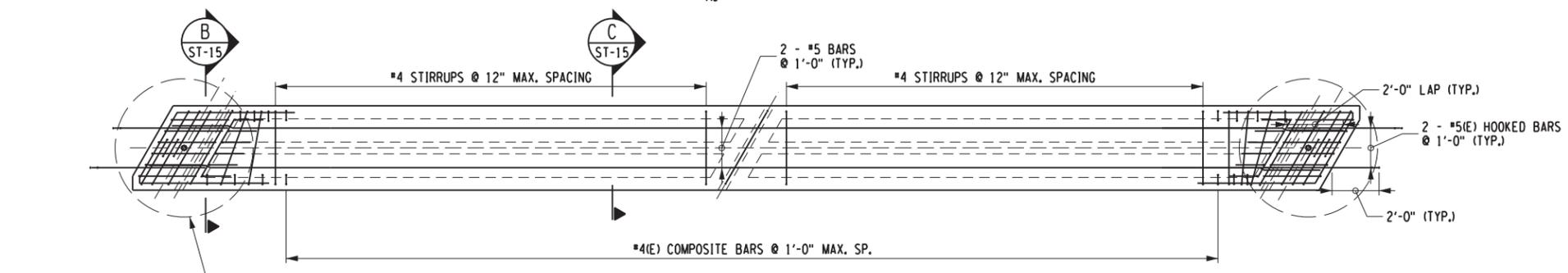
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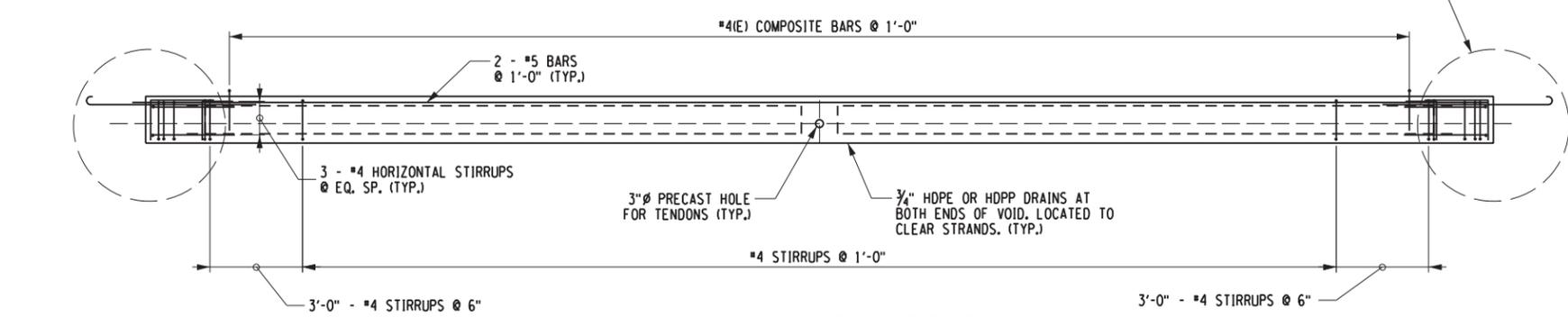
PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



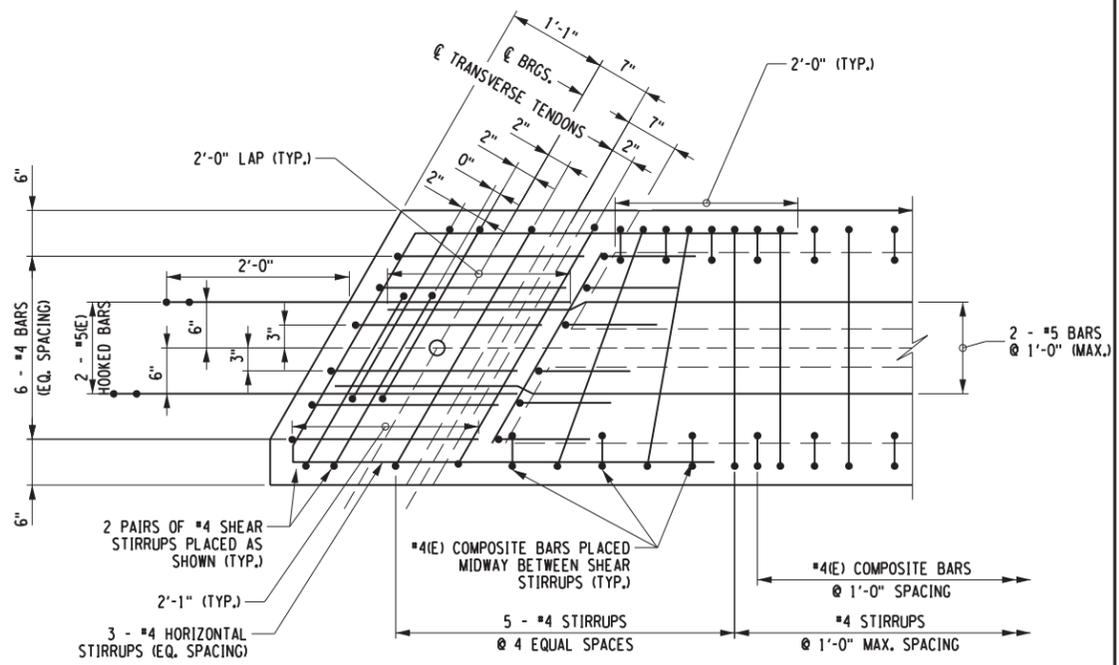
SLAB UNIT PLAN
SCALE: 3/16" = 1'-0"



SLAB UNIT REINFORCEMENT PLAN
SCALE: 3/16" = 1'-0"



SLAB UNIT REINFORCEMENT ELEVATION
SCALE: 3/16" = 1'-0"



PLAN - END BLOCK REINFORCEMENT
NOT TO SCALE

NOTES:

1. THE PRESTRESSING STRANDS SHALL BE LOW RELAXATION 0.6" DIAMETER WITH GUARANTEED ULTIMATE STRENGTH OF 270 ksi.
2. JACKING FORCE = 43.9 KIPS PER STRAND.
3. REQUIRED MINIMUM CONCRETE STRENGTH AT TRANSFER = 7 ksi
4. REQUIRED MINIMUM CONCRETE STRENGTH AT 56 DAYS = 10 ksi.
5. THE ALLOWABLE TENSION IN THE PRESTRESSED CONCRETE UNITS:
AT TRANSFER = 0.60 ksi
AT SERVICE LIMIT STATE = 0.57 ksi (HL-93)
6. THE PRESTRESSED CONCRETE UNITS SHALL MEET THE REQUIREMENTS OF THE NYSPCCM THIRD EDITION, APRIL 2019, WITH ALL CURRENT ADDENDUM AND MODIFICATIONS.
7. THE LOCATION ANY TYPE OF ALL TEMPORARY INSERTS SHALL BE APPROVED BY THE ENGINEER AND DETAILED ON THE PRESTRESSED CONCRETE "SHOP DRAWINGS".
8. BAR REINFORCEMENT SHALL BE ASTM 615, GRADE 60.
9. MINIMUM CONCRETE COVER TO MILD STEEL SHALL BE 1/2" OR AS SHOWN ON THE PLANS.
10. THE TOPS OF PRESTRESSED UNITS SHALL RECEIVE A TRANSVERSE ROUGHENED FINISH WITH AN AMPLITUDE OF 1/4".
11. ALL EXPOSED CORNER, EXCEPT THE TOP, SHALL BE CHAMFERED 3/4".
12. DIMENSIONAL TOLERANCES OF PRECAST MEMBERS SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE PRESTRESSED CONCRETE CONSTRUCTION MANUAL (P.C.C.M.)
13. 3/4" DIAMETER DRAIN HOLES OF AN APPROVED MATERIAL SHALL BE PROVIDED AT THE LOWER END OF EACH VOID OF THE PRESTRESSED BOX BEAM UNITS.
14. FASCIA BEAMS SHALL BE RUBBED AND FINISHED WITHIN 4 DAYS OF CASTING.
15. THE FABRICATOR IS FULLY RESPONSIBLE FOR THE DESIGN OF THE LIFTING DEVICES WHICH WILL BE ADEQUATE FOR THE SAFETY FACTORS REQUIRED BY THE ERECTION PROCEDURES.
16. 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 STRANDS (DESIGN BONDING SHOWN ON THE CONTRACT PLANS AND CRACK CONTROL DEBONDING COMBINED) SHALL NOT EXCEED 50% OF TOTAL NUMBER OF STRANDS.
17. PRESTRESSING STRANDS CUT FLUSH WITH THE END OF THE BEAM OR EXTENDED FOR INTEGRAL ABUTMENT APPLICATION SHALL BE PROTECTED AGAINST CORROSION BY THE APPLICATION OF ZINC PAINT IN ACCORDANCE WITH THE "REPAIR" PORTION OF THE NYS STANDARD SPECIFICATIONS SECTION 719.01. THE COST OF COATING THE STRANDS SHALL BE INCLUDED IN THE PRICE BID FOR THE BEAM ITEM.

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

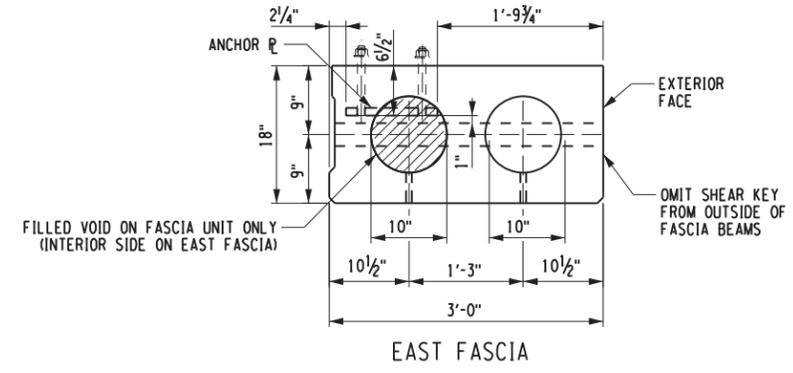
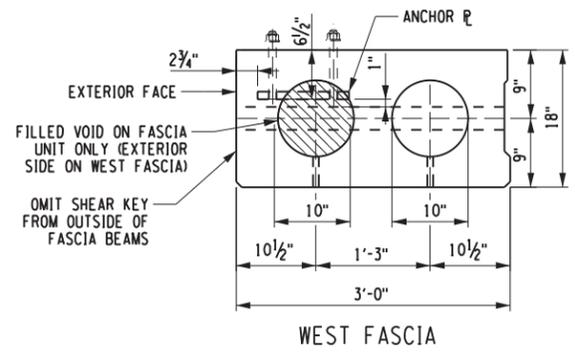
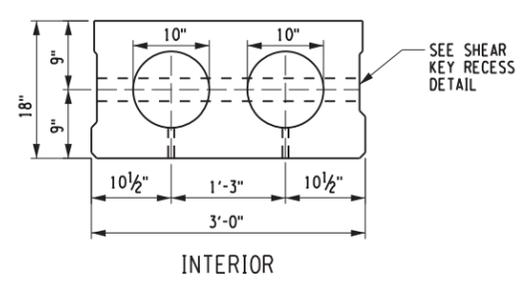
ALTERED BY:
ON:



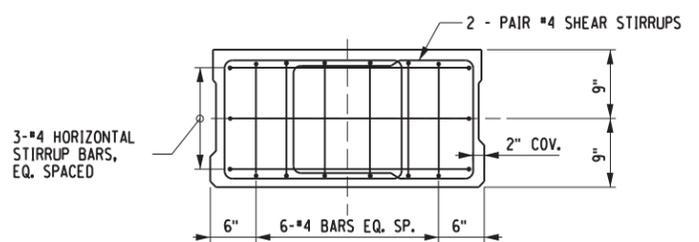
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN			PRECAST BEAM PLAN & REINFORCEMENT DETAILS	DRAWING NO. ST-14
	COUNTY: ESSEX REGION: 1				SHEET NO. 19

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.

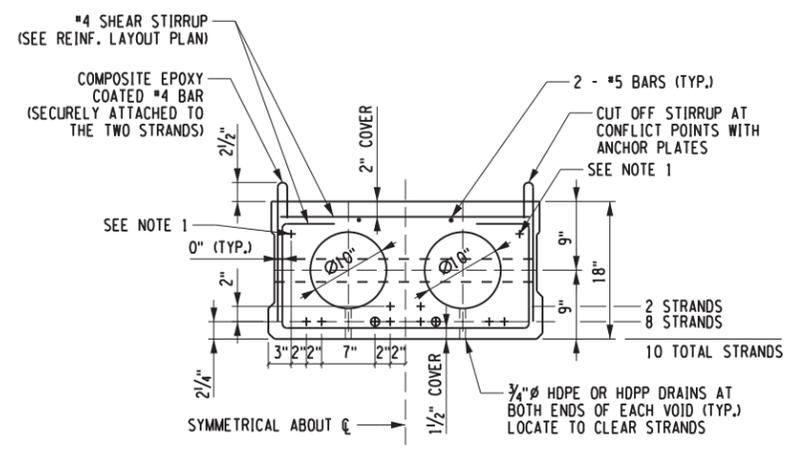
PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



A VOIDED SLAB UNIT SECTION
 SCALE: 1" = 2'-0"



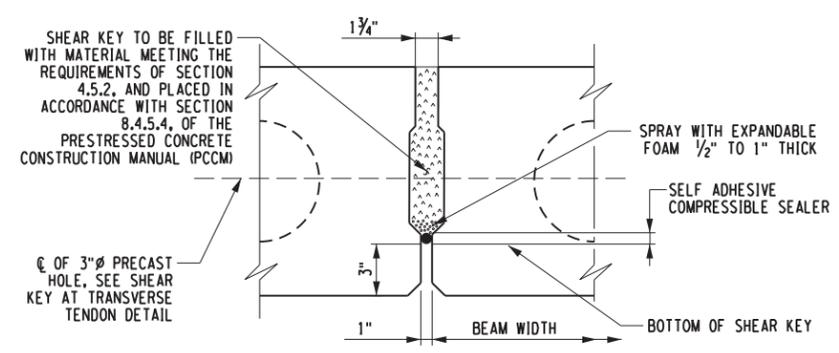
B END BLOCK SLAB UNIT REINFORCEMENT SECTION
 SCALE: 1" = 2'-0"



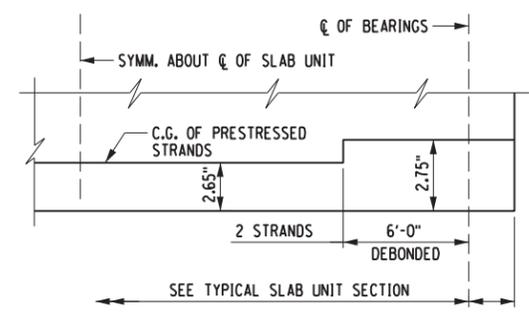
NOTE 1: THESE STRANDS SHALL BE TENSIONED TO A JACKING FORCE OF 2.2 KIP.

C TYPICAL SLAB UNIT REINFORCEMENT SECTION
 SCALE: 1" = 2'-0"

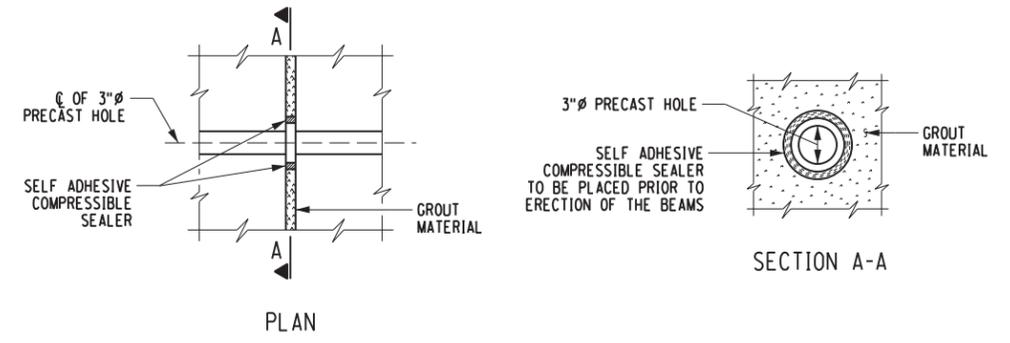
LEGEND:
 + - DENOTES STRAIGHT BONDED STRANDS
 ● - DENOTES DEBONDED STRANDS



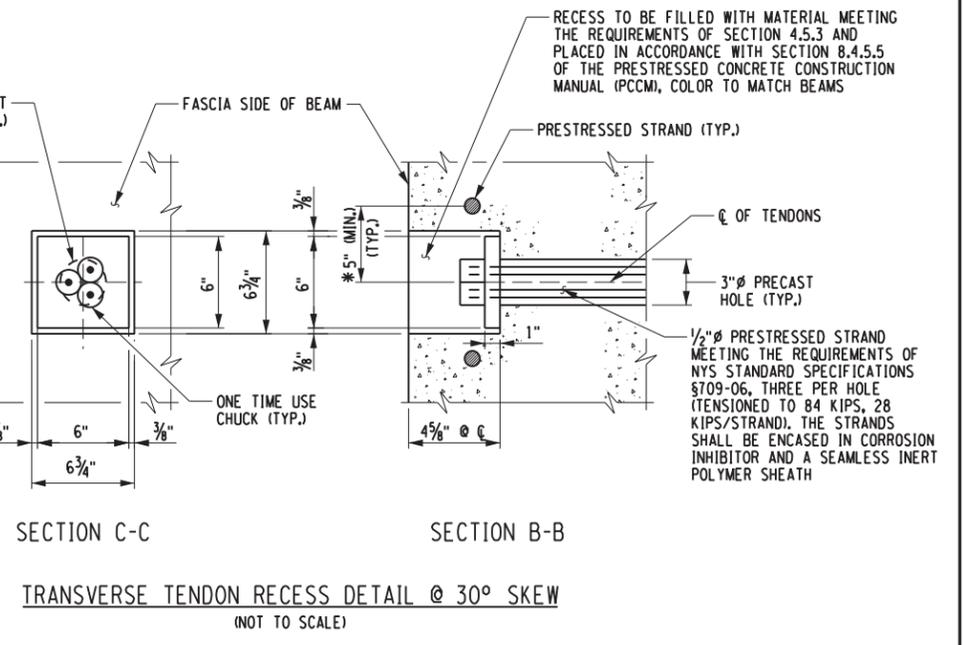
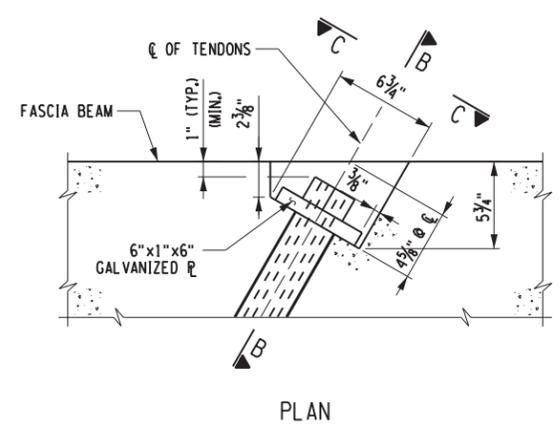
SLAB UNIT SHEAR KEY DETAIL
 (NOT TO SCALE)



SCHEMATIC DETAIL FOR DEBONDED STRANDS
 (NOT TO SCALE)



SHEAR KEY AT TRANSVERSE TENDON DETAIL
 (NOT TO SCALE)



TRANSVERSE TENDON RECESS DETAIL @ 30° SKEW
 (NOT TO SCALE)

PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026

ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN				DRAWING NO. ST-15
	COUNTY: ESSEX REGION: 1				SHEET NO. 20

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: C. TUTUNJIAN

CHECKED BY: I. PENGU

DRAFTED BY: C. VICKERY

CHECKED BY: I. PENGU

DESIGNED BY: C. VICKERY

BEAM	SLAB THICKNESS TABLE	¢ OF BRGS. BEG. ABUT.				¢ OF BRGS. END ABUT.
		0.25 L1	0.5L1	.75 L1		
B1	A. REQ'D TOP OF SLAB ELEVATION	555.68	556.88	556.08	556.28	556.48
	B. TOP OF BEAM EL. (FIELD MEASURED)					
	C. A - B					
	D. SLAB AND S.D.L. DEFLECTION	0.000	0.014	0.019	0.014	0.000
	E. ACTUAL SLAB THICKNESS = C + D					
	F. THEORETICAL SLAB THICKNESS*	0.556	0.537	0.519	0.537	0.556
B2	A. REQ'D TOP OF SLAB ELEVATION	555.65	555.85	556.05	556.25	556.47
	B. TOP OF BEAM EL. (FIELD MEASURED)					
	C. A - B					
	D. SLAB AND S.D.L. DEFLECTION	0.000	0.010	0.014	0.010	0.000
	E. ACTUAL SLAB THICKNESS = C + D					
	F. THEORETICAL SLAB THICKNESS*	0.556	0.535	0.514	0.535	0.556
B3	A. REQ'D TOP OF SLAB ELEVATION	555.61	555.81	556.01	556.21	556.61
	B. TOP OF BEAM EL. (FIELD MEASURED)					
	C. A - B					
	D. SLAB AND S.D.L. DEFLECTION	0.000	0.010	0.014	0.010	0.000
	E. ACTUAL SLAB THICKNESS = C + D					
	F. THEORETICAL SLAB THICKNESS*	0.556	0.535	0.514	0.535	0.556
B4	A. REQ'D TOP OF SLAB ELEVATION	555.58	555.78	555.98	556.18	556.38
	B. TOP OF BEAM EL. (FIELD MEASURED)					
	C. A - B					
	D. SLAB AND S.D.L. DEFLECTION	0.000	0.010	0.014	0.010	0.000
	E. ACTUAL SLAB THICKNESS = C + D					
	F. THEORETICAL SLAB THICKNESS*	0.556	0.535	0.514	0.535	0.556
B5	A. REQ'D TOP OF SLAB ELEVATION	555.54	555.74	555.94	556.14	556.34
	B. TOP OF BEAM EL. (FIELD MEASURED)					
	C. A - B					
	D. SLAB AND S.D.L. DEFLECTION	0.000	0.010	0.014	0.010	0.000
	E. ACTUAL SLAB THICKNESS = C + D					
	F. THEORETICAL SLAB THICKNESS*	0.556	0.535	0.514	0.535	0.556
B6	A. REQ'D TOP OF SLAB ELEVATION	555.50	555.70	555.90	556.10	556.30
	B. TOP OF BEAM EL. (FIELD MEASURED)					
	C. A - B					
	D. SLAB AND S.D.L. DEFLECTION	0.000	0.014	0.020	0.014	0.000
	E. ACTUAL SLAB THICKNESS = C + D					
	F. THEORETICAL SLAB THICKNESS*	0.556	0.538	0.520	0.538	0.556

* F IS THE THEORETICAL THICKNESS OF THE DECK SLAB BASED ON ASSUMED BEAM CAMBER, IT IS SHOWN TO ASSIST IN ESTIMATING THE MINIMUM SLAB THICKNESS AS WELL AS CONCRETE VOLUME. ALL MEASUREMENTS ARE TAKEN AT CENTERLINE OF SLAB UNIT
ALL VALUES SHOWN IN FEET

CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD AT TRANSFER	↑	0.895"
CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD WITH GROWTH**	↑	1.343"
DEFLECTION DUE TO SLAB DEAD LOAD	↓	0.165"
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	↓	0.067"

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

CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD AT TRANSFER	↑	0.895"
CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD WITH GROWTH**	↑	1.343"
DEFLECTION DUE TO SLAB DEAD LOAD	↓	0.131"
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	↓	0.032"

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

CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD AT TRANSFER	↑	0.895"
CAMBER DUE TO PRESTRESSED FORCE AND BEAM DEAD LOAD WITH GROWTH**	↑	1.343"
DEFLECTION DUE TO SLAB DEAD LOAD	↓	0.176"
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	↓	0.067"

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

	UNIT	REACTION AT ABUTMENT (KIPS)	MAX MOMENT MIDSPAN (KIP-FT)	
BEAM 1	D.L.	SLAB UNIT	11.6	109.1
		DECK SLAB	6.6	62.0
		HAUNCH	0.6	6.0
		ADD'L SELF LOAD	1.6	16.0
		TOTAL:	20.4	193.1
S.D.L.	RAILING	0.6	5.6	
	FUTURE W.S.	1.2	12.0	
	UTILITY LOAD	0.2	2.2	
	TOTAL:	2.0	19.8	
L.L.	HL-93*	21.8	160.1	
BEAMS 2, 3, 4, 5	D.L.	SLAB UNIT	11.6	109.1
		DECK SLAB	5.2	62.0
		HAUNCH	0.6	6.0
		ADD'L SELF LOAD	0.0	0.0
		TOTAL:	17.4	164.4
S.D.L.	RAILING	0.6	5.6	
	FUTURE W.S.	1.2	12.0	
	UTILITY LOAD	0.2	2.2	
	TOTAL:	2.0	19.8	
L.L.	HL-93*	15.1	127.3	
BEAM 6	D.L.	SLAB UNIT	11.6	109.1
		DECK SLAB	7.1	66.5
		HAUNCH	0.6	6.0
		ADD'L SELF LOAD	1.6	16.0
		TOTAL:	20.9	197.6
S.D.L.	RAILING	0.6	5.6	
	FUTURE W.S.	1.2	12.0	
	UTILITY LOAD	0.2	2.2	
	TOTAL:	2.0	19.8	
L.L.	HL-93*	21.8	160.1	

* LIVE LOAD VALUES DO NOT INCLUDE IMPACT

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

ALTERED BY:
ON:



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

NOBLE TERRACE OVER BARTON BROOK
CULVERT REPLACEMENT PROJECT
TOWN OF ELIZABETHTOWN
COUNTY: ESSEX REGION: 1

BRIDGES
BIN TBD

CULVERTS
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
CAMBER AND DESIGN LOAD TABLES

CONTRACT NUMBER
DR 4814
PROJECT NUMBER: 766429
DRAWING NO. ST-16
SHEET NO. 21

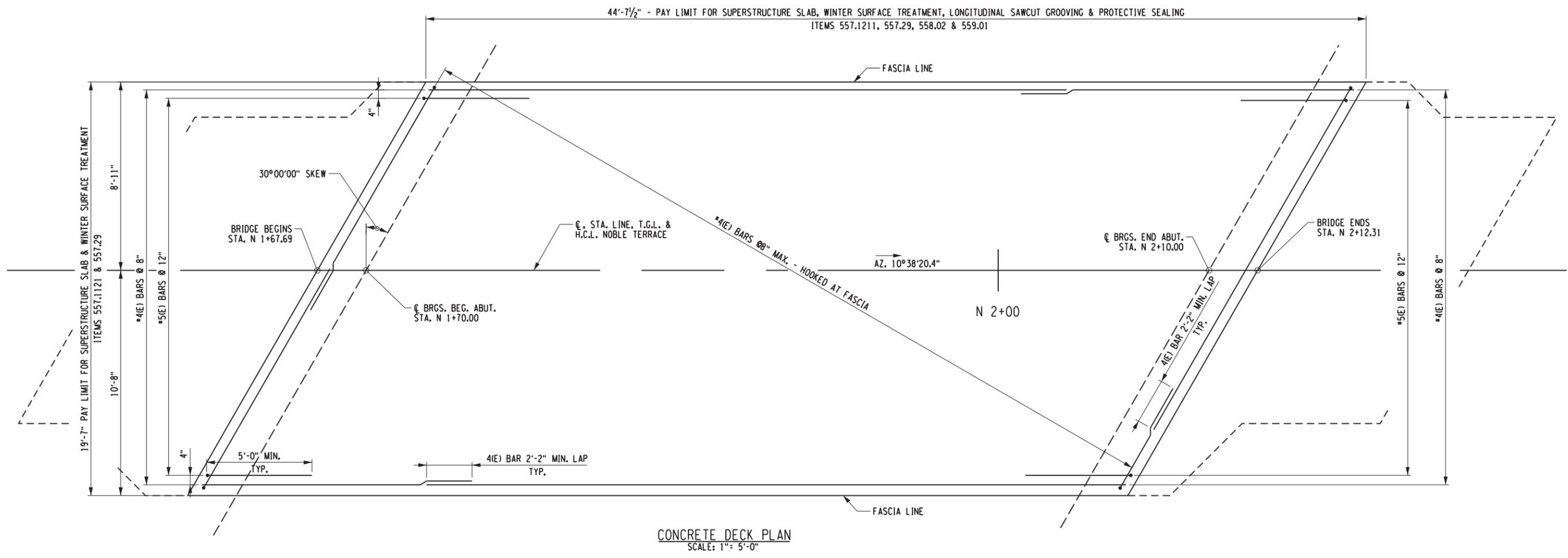
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Town of Elizabethtown



PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



CONCRETE DECK PLAN
SCALE: 1" = 5'-0"

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. 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.

NOTES (CONT.):

3. IN THE EVENT THE CONTRACTOR'S DECK PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY THE CONTRACTOR'S OWN DECISION OR BY THE 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.

SUPERSTRUCTURE SLAB TABLE		
SUPERSTRUCTURE SLAB ITEM 557.1211 & WINTER SURFACE TREATMENT ITEM 557.29	LONGITUDINAL SAWCUT GROOVING ITEM 558.02	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ITEM 559.01
97.1 SY	71.9 SY	111.2 SY

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK CULVERT REPLACEMENT PROJECT	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814 PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN COUNTY: ESSEX REGION: 1			SUPERSTRUCTURE SLAB REINFORCEMENT PLAN	DRAWING NO. ST-17 SHEET NO. 22

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.

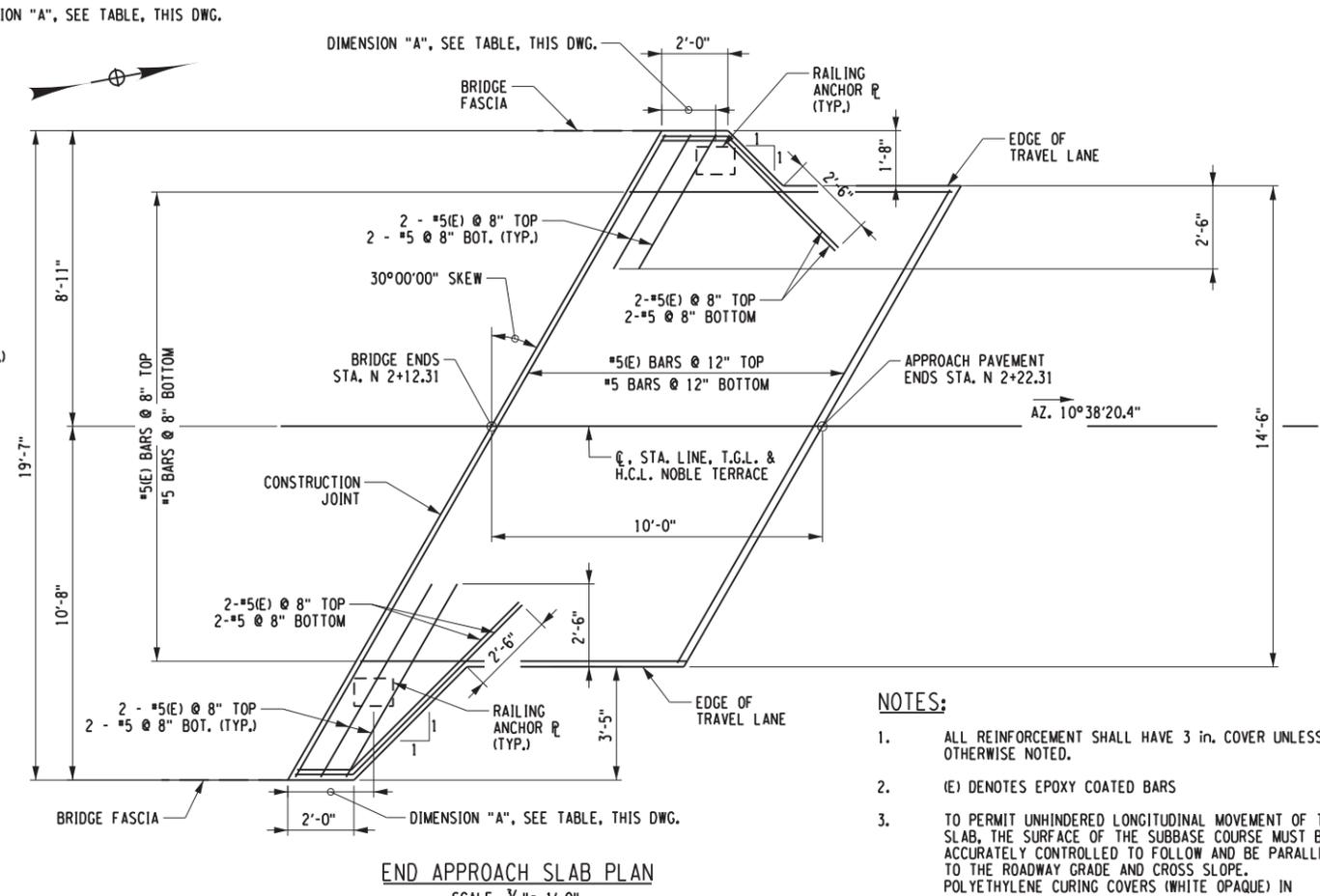
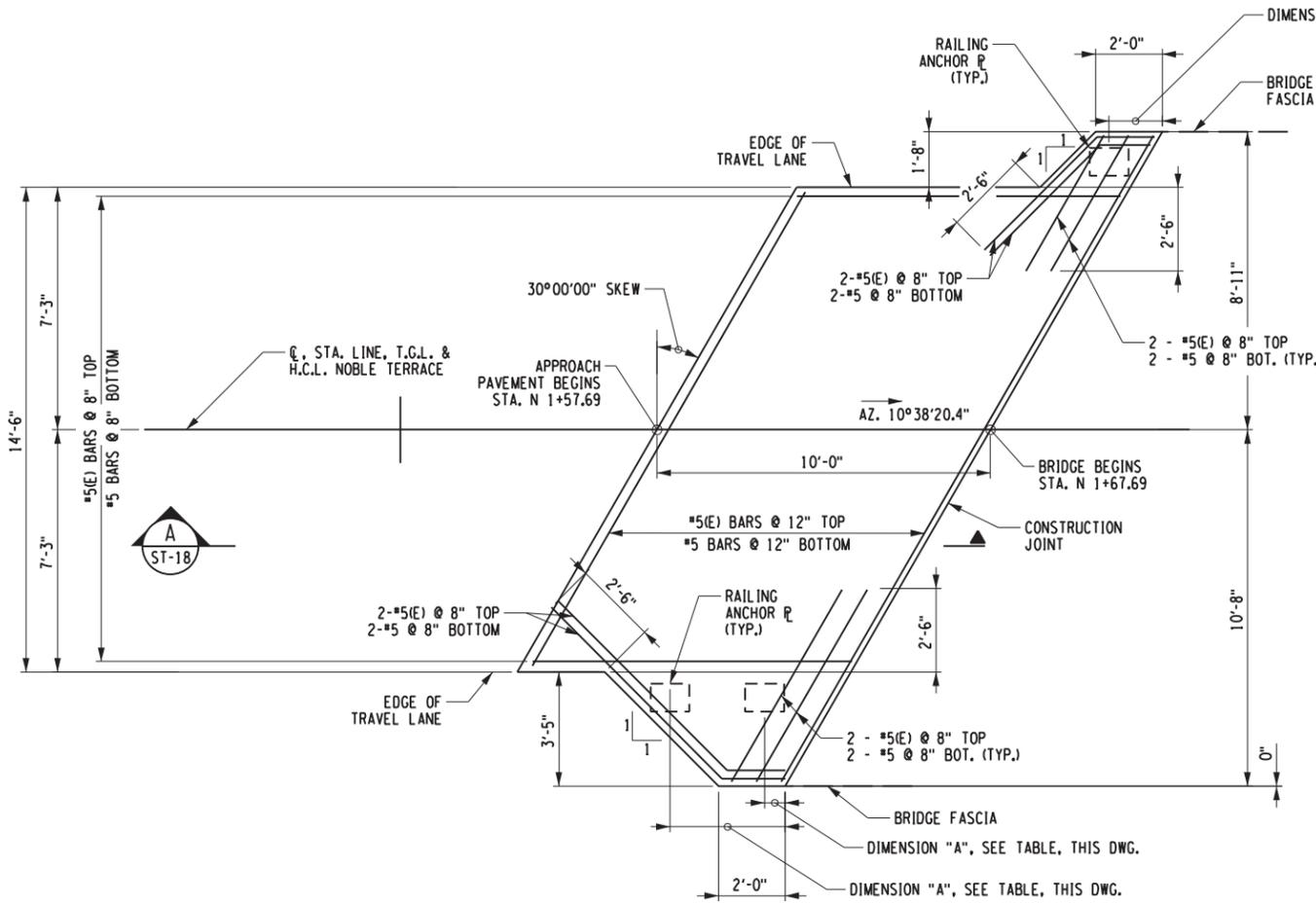
PROJECT MANAGER: C. TUTUNJIAN

CHECKED BY: I. PENGU

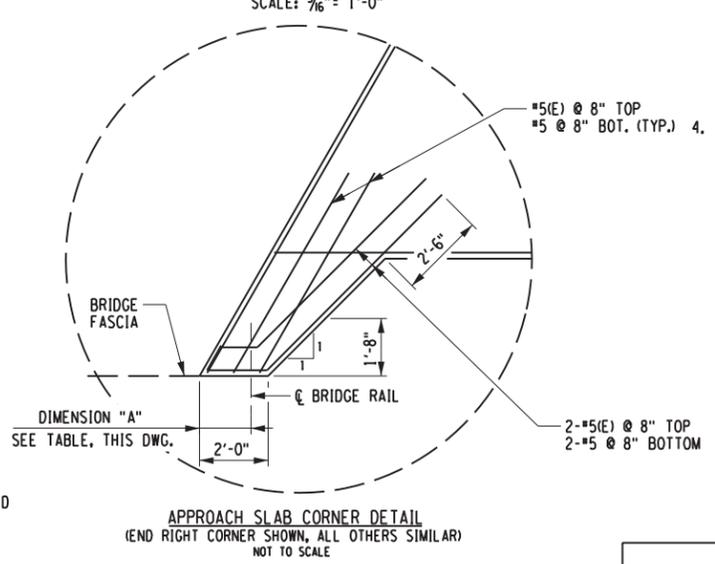
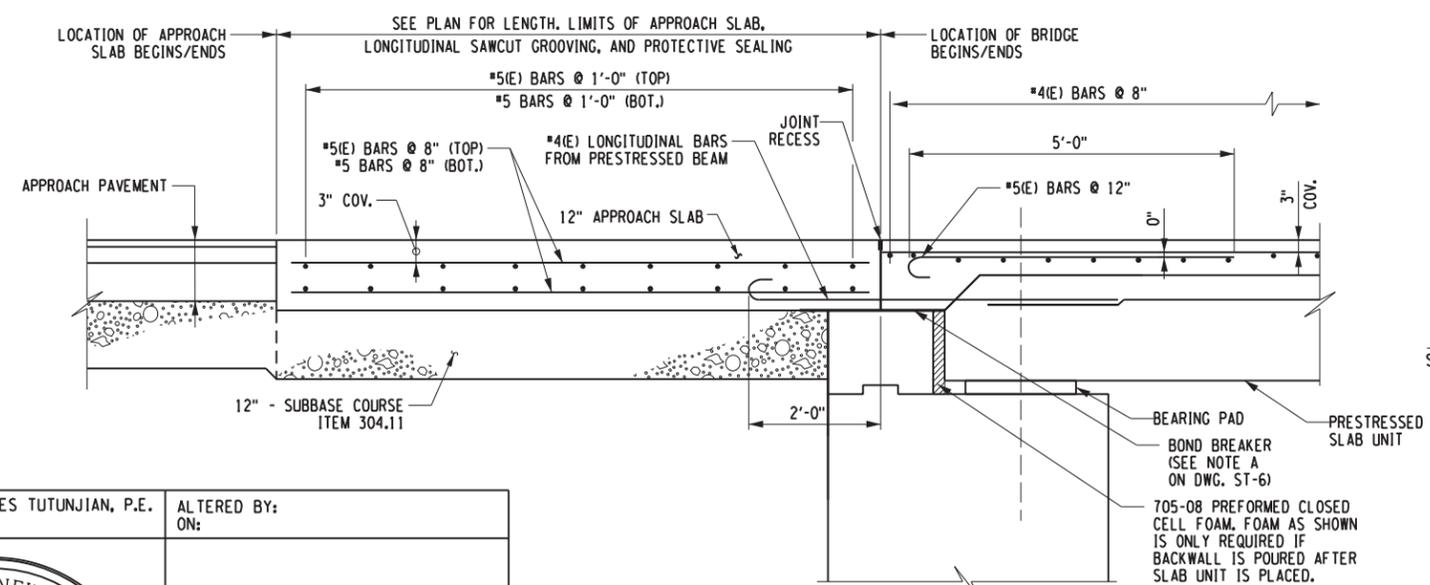
DRAFTED BY: C. VICKERY

CHECKED BY: I. PENGU

DESIGNED BY: C. VICKERY



- NOTES:**
- ALL REINFORCEMENT SHALL HAVE 3 in. COVER UNLESS OTHERWISE NOTED.
 - (E) DENOTES EPOXY COATED BARS
 - TO PERMIT UNHINDERED LONGITUDINAL MOVEMENT OF THE SLAB, THE SURFACE OF THE SUBBASE COURSE MUST BE ACCURATELY CONTROLLED TO FOLLOW AND BE PARALLEL TO THE ROADWAY GRADE AND CROSS SLOPE. POLYETHYLENE CURING COVERS (WHITE OPAQUE) IN ACCORDANCE WITH MATERIAL SPECIFICATION SUBSECTION 711-04 SHALL BE PLACED ON THE FINISHED SUBBASE COURSE THE FULL WIDTH OF THE APPROACH SLAB PRIOR TO PLACEMENT OF THE REINFORCEMENT. THE CURING COVERS SHALL BE .004 in. THICK, AND LAPS SHALL BE 2 ft. MINIMUM.
 - TOP SURFACES OF APPROACH SLABS SHALL BE GROOVED UNDER THE SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE ITEM.



APPROACH SLAB RAILING ANCHORAGE	
LOCATION	DIMENSION "A"
BEGIN LT.	1'-7"
BEGIN RT. - 1	3/4"
BEGIN RT. - 2	3'-5 1/2"
END LT.	1'-7"
END RT.	2'-7"

APPROACH SLAB TABLE			
LOCATION	STRUCTURAL APPROACH SLAB, ITEM 557.1012	LONGITUDINAL SAWCUT GROOVING, ITEM 558.02	PROTECTIVE SEALING OF NEW STRUCTURAL CONCRETE (SF) ITEM 559.02
BEGIN APPROACH SLAB	18.4 SY	16.2 SY	18.4 SY
END APPROACH SLAB	17.8 SY	16.2 SY	17.8 SY

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

ALTERED BY:
ON:



A APPROACH SLAB SECTION
ST-18
NOT TO SCALE

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:
NOBLE TERRACE OVER BARTON BROOK
CULVERT REPLACEMENT PROJECT
TOWN OF ELIZABETHTOWN
COUNTY: ESSEX REGION: 1

NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
			APPROACH SLAB PLAN AND DETAILS	PROJECT NUMBER: 766429
				DRAWING NO. ST-18
				SHEET NO. 23

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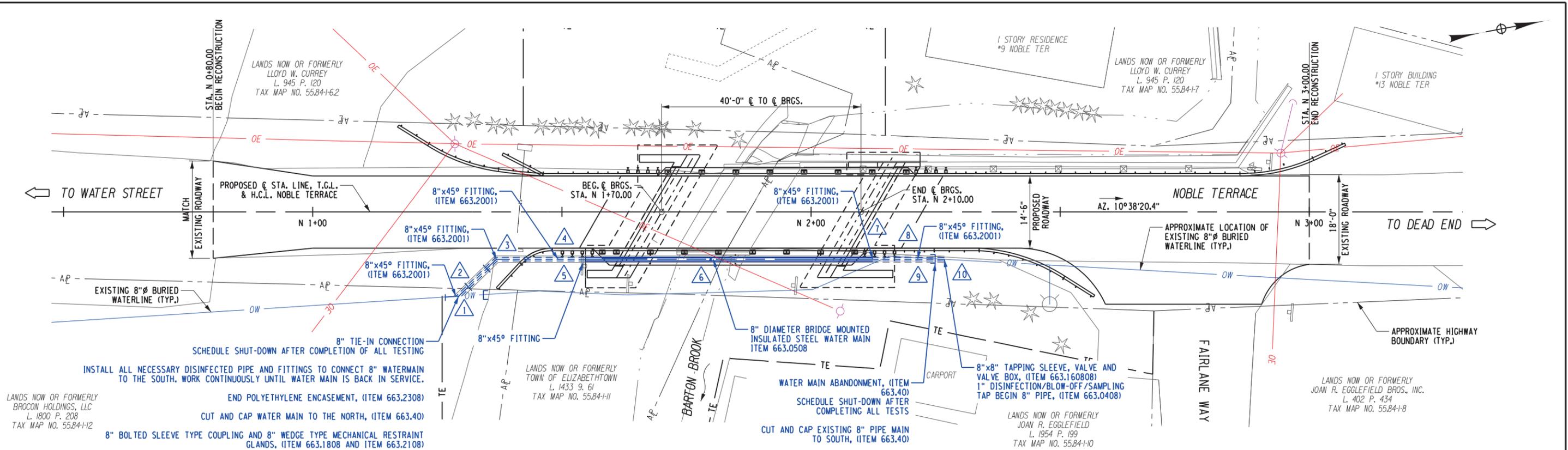
PROJECT MANAGER: C. TUTUNJIAN

CHECKED BY: I. PENGU

DRAFTED BY: C. VICKERY

CHECKED BY: I. PENGU

DESIGNED BY: C. VICKERY



WATER MAIN NOTES:

- INSTALL NEW WATER MAIN WITH A MINIMUM OF 5'-6" OF COVER FROM FINAL PROJECT GRADES.
 - WATER PRESSURE TEST IS REQUIRED UPON COMPLETION OF THE INSTALLATION AND BACKFILL OF THE WATER MAIN. UNLESS OTHERWISE NOTED, A MINIMUM HYDROSTATIC PRESSURE OF 150 PSI IS REQUIRED. NO PRESSURE DROP IS ALLOWED. THE PRESSURE TEST MUST BE MAINTAINED FOR A PERIOD OF ONE HOUR WITHOUT ADDITIONAL PUMPING OR ADDITION OF WATER.
 - FLUSHING, DISINFECTING AND HEALTH SAMPLING ARE REQUIRED FOR ALL WATER MAIN WORK WHERE MORE THAN 19' OF WATER MAIN AND APPURTENANCES ARE INSTALLED. FOR WORK WHERE 19' OR LESS ARE INSTALLED, THE INTERIOR OF ALL PIPE, FITTINGS AND APPURTENANCES SHALL BE SWAB-DISINFECTED WITH A 5% SODIUM HYPOCHLORITE SOLUTION. THE SOLUTION MUST BE APPLIED USING A WIDE BRUSH OR SPRAYER NO MORE THAN 60 MINUTES AND NO LESS THAN 20 MINUTES PRIOR TO INSTALLATION.
 - THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED IN WRITING BY THE COUNTY HEALTH DEPARTMENT AND TOWN OF ELIZABETHTOWN.
 - WATER MAINS AND APPURTENANCES TO BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE TOWN OF ELIZABETHTOWN.
 - WATER MAINS SHALL BE 8 INCH POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO AWWA C-900, MINIMUM CLASS 200 (DR14) WITH ELASTOMERIC GASKET JOINTS AND INTEGRAL BELL AND RUBBER RINGS LOCKED IN PLACE. WATER MAINS SHALL BE 8 INCH DUCTILE IRON, CEMENT-LINED, CLASS 52 WITH ZINC COATING.
- PVC WATER MAIN INSTALLATION SHALL INCLUDE:
- 6-INCH WIDE METALLIC TAPE PLACED OVER THE CENTER OF THE PIPE ON TOP OF THE 18-INCH SAFETY COVER AS MANUFACTURED BY LINE GUARD 111, INC.
 - #10 GAUGE COPPER WIRE ATTACHED TO THE PIPE AT 5-FOOT INTERVALS WITH PLASTIC TIES WITH A MINIMUM OF 150 LBS TENSILE STRENGTH. WIRE SHALL BE ATTACHED TO ALL CAST FITTINGS HYDRANTS AND VALVE BOXES TO MAKE A CONTINUOUS TRACEABLE SYSTEM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS WATER MAIN ITEMS.

WATER MAIN RELOCATION PLAN

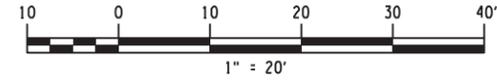
- WATER SERVICE(S) SHALL BE MINIMUM 1 INCH TYPE K COPPER FROM THE WATER MAIN TO THE CURB BOX. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS WATER MAIN ITEMS.
- ALL GATE VALVES SHALL BE EPOXY-COATED AND HAVE STAINLESS STEEL BODY AND BONNET BOLTS. - ALL NEW WATER MAINS SHALL INCLUDE V-BIO ENHANCED POLYETHYLENE ENCASEMENT.
- THE CONTRACTOR IS RESPONSIBLE TO SCHEDULE ALL WATER MAIN TAPS WITH THE TOWN OF ELIZABETHTOWN, IN WRITING, A MINIMUM OF THREE WORK DAYS IN ADVANCE. THE CONTRACTOR IS REQUIRED TO PROVIDE SAFE EXCAVATION (INCLUDING ACCESS) AND SUPPLY AND INSTALL THE TAPPING SLEEVE AND VALVE SUCH THAT IT WILL PASS AN AIR TEST ADMINISTERED BY THE TOWN OF ELIZABETHTOWN PRIOR TO MAKING THE TAP.
- MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE 10 FEET. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT GRANULAR FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN.
- DUCTILE IRON FITTINGS SHALL MEET AWWA C-111 SPECIFICATIONS, MINIMUM CLASS 250, WITH MECHANICAL OR PUSH-ON JOINT, EXCEPT FOR HYDRANT BRANCHES, WHICH SHALL BE MECHANICAL JOINT. FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA C-104. BOLTS AND NUTS SHALL BE HIGH-STRENGTH, LOW ALLOY, COATED STEEL. PVC FITTINGS SHALL MEET SPECIFICATIONS OF AWWA C-905 MADE FROM PVC COMPOUND 12454-8 (ASTM D1784) WITH GASKET JOINTS MEETING ASTM D3139. ALL FITTINGS SHALL BE BACKED WITH ADEQUATELY-SIZED 2500 PSI MINIMUM STRENGTH CONCRETE THRUST BLOCKS CONTAINING NO FLY ASH OR POZZOLANS. CONCRETE FOR THRUST BLOCKS MUST BE TRANSIT MIX.
- THE CONTRACTOR SHALL NOTIFY THE TOWN OF ELIZABETHTOWN SUPERVISOR, CATHLEEN REUSSER 518-873-6555 AND THE SUPERINTENDENT OF THE DEPARTMENT OF PUBLIC WORKS JACK PULSIFER 518-618-5872, A MINIMUM OF THREE WORK DAYS PRIOR TO STARTING ANY WATER MAIN WORK.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING SIZE OF EXISTING WATER MAIN(S) PRIOR TO SCHEDULING ANY WET TAPS OR SHUTDOWNS FOR TIE-IN CONNECTIONS. CONTRACTOR MUST HAVE ALL NECESSARY MATERIALS ONSITE PRIOR TO ANY WATER SYSTEM SHUTDOWNS FOR TIE-IN CONNECTIONS.
- IF ANY CONTACT IS MADE WITH TOWN OF ELIZABETHTOWN FACILITIES OR IF ANY PROBLEMS WITH EXISTING WATER MAINS OR APPURTENANCES OCCUR DURING CONSTRUCTION, NOTIFY THE TOWN OF ELIZABETHTOWN DEPARTMENT OF PUBLIC WORKS AT 518-618-5872.
- ALL WATER SYSTEM HYDRANTS, VALVES AND CURB BOXES SHALL BE ADJUSTED TO GRADE AND MAINTAINED ACCESSIBLE THROUGHOUT THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE TO SCHEDULE AND COORDINATE ALL REQUIRED WATER SYSTEM SHUT-OFFS, INCLUDING A MINIMUM 24 HOUR ADVANCE WRITTEN NOTICE TO ALL AFFECTED CUSTOMERS AND A MINIMUM OF 3 WORK DAYS ADVANCE WRITTEN NOTICE TO THE TOWN OF ELIZABETHTOWN. WATER SYSTEM SHUT-OFF NOTIFICATIONS SHALL INCLUDE THE FOLLOWING INFORMATION (LOCATION, DATE, TIME OF SHUT-OFF, DURATION, ANTICIPATED TIME OF TURN ON AND NUMBER OF AFFECTED CUSTOMERS). ALL EXISTING WATER SYSTEM VALVES AND APPURTENANCES ARE TO BE OPERATED BY TOWN PERSONNEL ONLY. NO WATER SYSTEM SHUT-OFFS WILL BE ALLOWED ON TOWN HOLIDAYS.
- THE CONTRACTOR SHALL USE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING WATER MAINS (INCLUDING THE USE OF COMPACTION EQUIPMENT). ANY DAMAGE TO TOWN OF ELIZABETHTOWN FACILITIES THAT IS DUE TO THE CONTRACTOR'S OPERATIONS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- MAXIMUM TIME ALLOWED FOR ANY WATER MAIN SHUT DOWN SHALL BE FOUR (4) HOURS.
- THE CONTRACTOR IS RESPONSIBLE TO SCHEDULE ALL REQUIRED WATERING UP, FLUSHING AND TESTING OF THE NEW WATER MAIN VIA WRITTEN NOTICE TO THE TOWN OF ELIZABETHTOWN A MINIMUM OF 3 WORK DAYS IN ADVANCE. ALL EXISTING WATER SYSTEM VALVES AND APPURTENANCES ARE TO BE OPERATED BY TOWN PERSONNEL ONLY.
- ALL OPEN PIPE ENDS ON WATER MAIN AND APPURTENANCES SHALL BE COVERED IN A WATER-TIGHT MANNER USING TEMPORARY CAPS, PLUGS OR DOUBLE-LAYERED PLASTIC SHEETING. THIS REQUIREMENT APPLIES TO PIPE THAT IS BEING SHIPPED, STOCKPILED, STAGED, STRUNG ALONG THE JOBSITE OR WITHIN EXCAVATIONS DURING INSTALLATION. ALL DIRT, DEBRIS AND FOREIGN MATERIALS MUST BE REMOVED FROM THE INSIDE OF NEW WATER MAIN AND APPURTENANCES PRIOR TO INSTALLATION.
- THE EXCAVATION WATER LEVEL SHALL BE KEPT A MINIMUM OF 12 INCHES BELOW THE WATER MAIN INVERT DURING INSTALLATION.
- ALL VALVES ON ABANDONED SECTIONS OF WATER MAIN SHALL BE LEFT IN THE CLOSED POSITION AND THE VALVE BOX SHALL BE REMOVED.
- THE USE OF RECYCLED CONCRETE AS BACKFILL MATERIAL IS NOT ALLOWED UNLESS IT HAS BEEN CONFIRMED THAT THE RECYCLED CONCRETE CONTAINS NO FLY-ASH OR POZZOLANS. SUFFICIENT TESTS SHALL BE PERFORMED BY A CERTIFIED TESTING LABORATORY (AT THE CONTRACTOR'S EXPENSE) TO DETERMINE THAT EACH SOURCE OF RECYCLED CONCRETE CONTAINS NO FLY-ASH OR POZZOLANS.
- CONTRACTOR MUST SUBMIT A WRITTEN REQUEST FOR THE TOWN OF ELIZABETHTOWN TO CHECK ALL VALVES AND HYDRANTS A MINIMUM OF 3-4 WEEKS PRIOR TO START OF PROJECT, AND AT END OF PROJECT, AS PART OF THE PRE-PROJECT VALVE CHECKS, THE TOWN WILL CORRECT ANY DEFICIENCIES FOUND BEFORE THE PROJECT BEGINS. AT END OF PROJECT, THE TOWN WILL CHECK ALL VALVES AND HYDRANTS AND PROVIDE CONTRACTOR WITH A WRITTEN PUNCHLIST OF ITEMS TO BE CORRECTED.
- IF ANY OUT-OF-SERVICE WATER LINES ARE EXPOSED DURING STRUCTURAL EXCAVATION, REMOVAL TO BE INCLUDED UNDER ITEM 206.01, STRUCTURE EXCAVATION.

PAYMENT NOTE:

- ALL ITEM NUMBERS SHOWN IN PARENTHESIS HAVE BEEN SHOWN FOR SPECIFICATION PURPOSES. ALL WORK FOR THE WATER LINE INSTALLATION SHALL BE PAID FOR UNDER "8" DIAMETER BRIDGE MOUNTED STEEL WATER MAIN", ITEM 663.0508.

LEGEND:

△ - WW NUMBER, SEE WATERWORKS TABLE, DWG. ST-20



PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

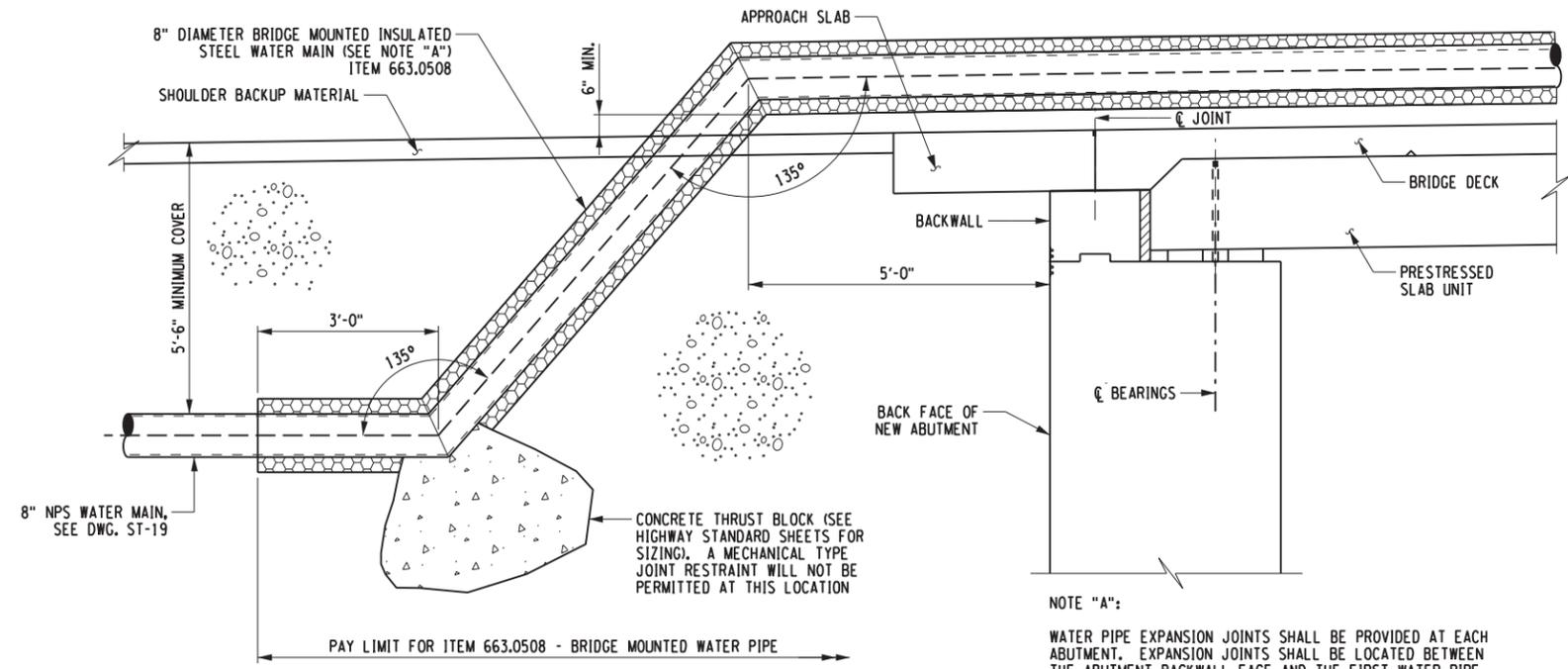
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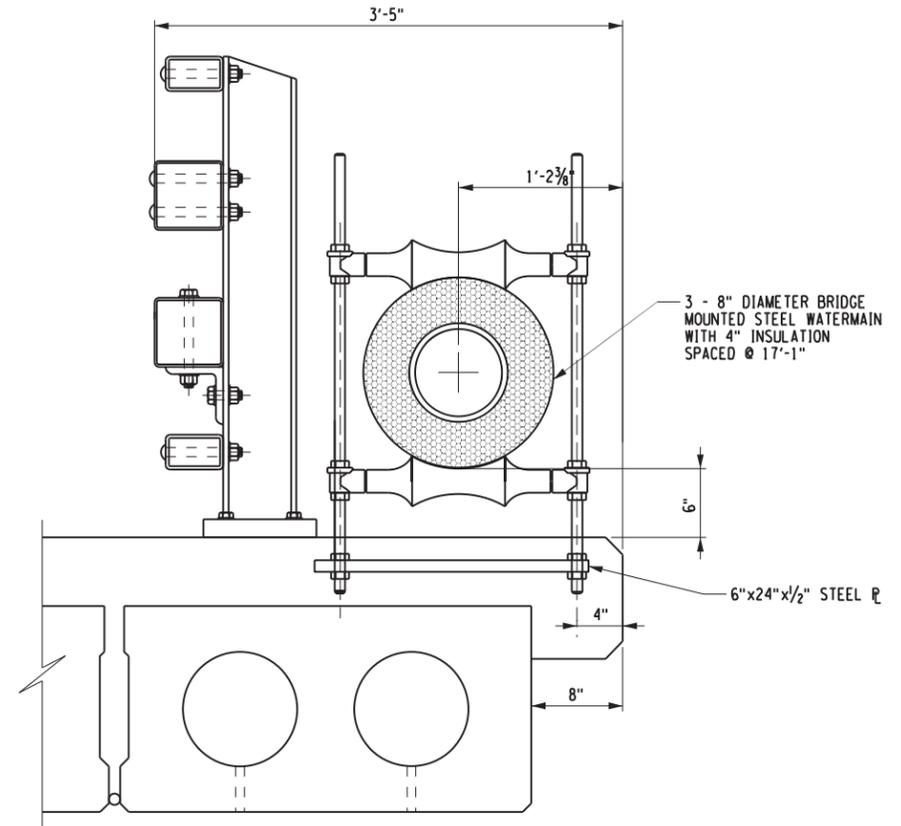
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN				DRAWING NO. ST-19
	COUNTY: ESSEX	REGION: 1			SHEET NO. 24

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PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



WATER MAIN TERMINATION DETAIL
 (BEGIN ABUTMENT SHOWN - END ABUTMENT SIMILAR)
 NOT TO SCALE



WATER MAIN NOTE:
 THE COST OF INSULATED WATER PIPE AND SUPPORTS (INCLUDING CONTINUOUS THREADED ROD, SOCKETS, CAST IRON PIPE ROLLS AND ASSOCIATED HARDWARE) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 663.0508 - BRIDGE MOUNTED WATER PIPE.

UTILITY ON BRIDGE TYPICAL SECTION
 SCALE: 3/4" = 1'-0"

WATERWORKS TABLE**									
WW NUMBER	LOCATION	STATION	OFFSET (FT)	SIDE	TO	STATION	OFFSET (FT)	SIDE	DESCRIPTION
1	NOBLE TERRACE	N 1+28.72	16.9	RIGHT	-	N 1+29.26	16.9	RIGHT	8" TIE-IN CONNECTION, SCHEDULE SHUT-DOWN AFTER COMPLETION OF ALL TESTING INSTALL ALL NECESSARY DISINFECTED PIPE & FITTINGS TO CONNECT 8" WATER MAIN TO THE SOUTH END POLYETHYLENE ENCASUREMENT CUT & CAP WATER MAIN TO THE NORTH 8" BOLTED SLEEVE TYPE COUPLING & 8" WEDGE TYPE MECHANICAL RESTRAINT GLANDS
2	NOBLE TERRACE	N 1+29.26	16.8	RIGHT	-	N 1+29.26	16.8	RIGHT	8"x45° FITTING
-	NOBLE TERRACE	N 1+29.26	16.8	RIGHT	-	N 1+36.84	9.5	RIGHT	8" DIAMETER INSULATED STEEL WATER MAIN - LENGTH = 5'-3"
3	NOBLE TERRACE	N 1+36.84	9.5	RIGHT	-	N 1+36.84	9.5	RIGHT	8"x45° FITTING
-	NOBLE TERRACE	N 1+36.84	9.5	RIGHT	-	N 1+43.90	9.5	RIGHT	8" DIAMETER INSULATED STEEL WATER MAIN - LENGTH = 9'-9"
4	NOBLE TERRACE	N 1+43.90	9.5	RIGHT	-	N 1+43.90	9.5	RIGHT	8"x45° FITTING
-	NOBLE TERRACE	N 1+43.90	9.5	RIGHT	-	N 1+54.25	9.5	RIGHT	8" DIAMETER INSULATED STEEL WATER MAIN - LENGTH = 7'-9"
5	NOBLE TERRACE	N 1+54.25	9.5	RIGHT	-	N 1+54.25	9.5	RIGHT	8"x45° FITTING
6	NOBLE TERRACE	N 1+62.88	9.5	RIGHT	-	N 2+05.98	9.5	RIGHT	8" DIAMETER BRIDGE MOUNTED INSULATED STEEL WATER MAIN - LENGTH = 55'-6"
7	NOBLE TERRACE	N 2+12.41	9.5	RIGHT	-	N 2+12.41	9.5	RIGHT	8"x45° FITTING
-	NOBLE TERRACE	N 2+12.41	9.5	RIGHT	-	N 2+21.38	9.5	RIGHT	8" DIAMETER INSULATED STEEL WATER MAIN - LENGTH = 7'-9"
8	NOBLE TERRACE	N 2+21.38	9.5	RIGHT	-	N 2+21.38	9.5	RIGHT	8"x45° FITTING
9	NOBLE TERRACE	N 2+24.92	9.5	RIGHT	-	N 2+24.92	9.5	RIGHT	WATER MAIN ABANDONMENT, SCHEDULE SHUT-DOWN AFTER COMPLETING ALL TESTS CUT & CAP EXISTING 8" PIPE MAIN TO SOUTH
10	NOBLE TERRACE	N 2+26.78	9.5	RIGHT	-	N 2+26.78	9.5	RIGHT	8"x8" TAPPING SLEEVE, VALVE & VALVE BOX 1" DISINFECTION/BLOW-OFF/SAMPLING TAP BEGIN 8" PIPE

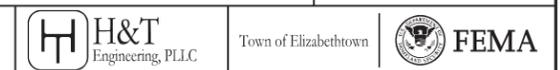
** ALL ITEM NUMBERS SHOWN IN (PARENTHESES) ARE SHOWN FOR SPECIFICATION PURPOSES. ALL WORK FOR THE WATER LINE INSTALLATION SHALL BE PAID FOR UNDER ITEM 663.0508

PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026
 ALTERED BY:
 ON:

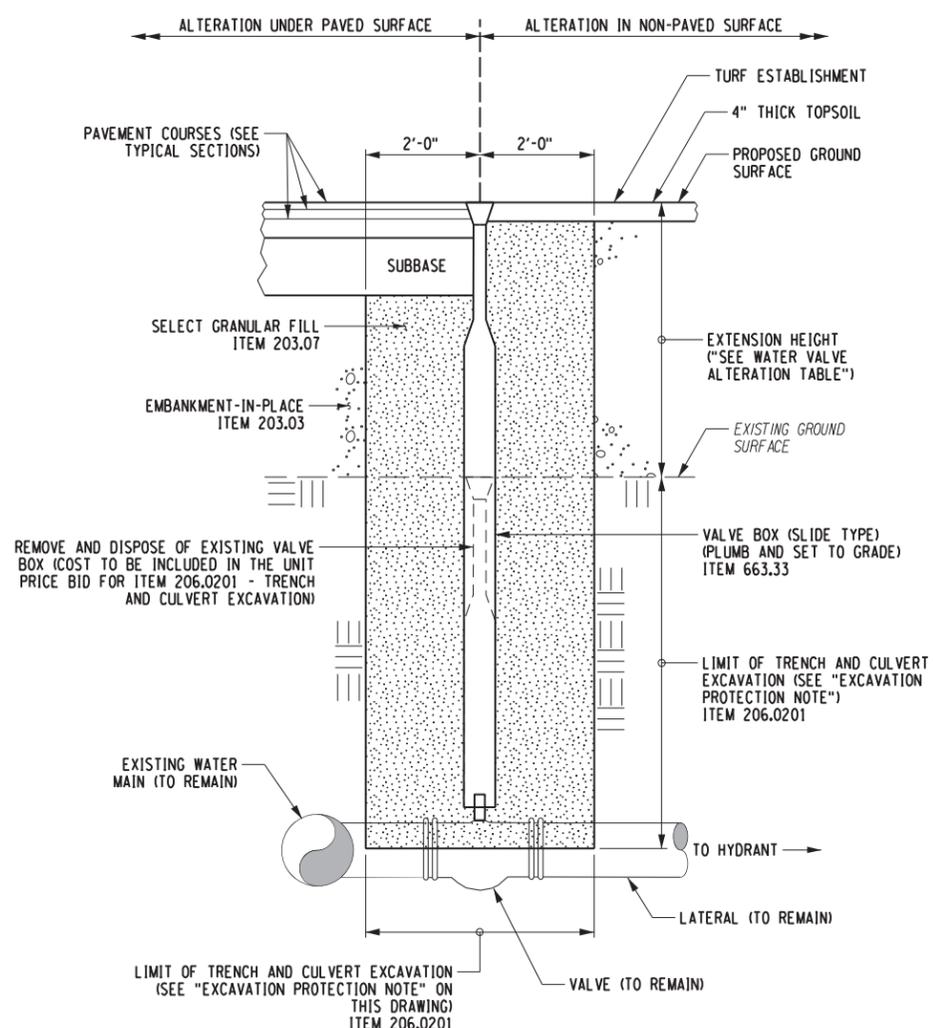


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN			WATER MAIN DETAILS - 1	DRAWING NO. ST-20
	COUNTY: ESSEX REGION: 1				SHEET NO. 25

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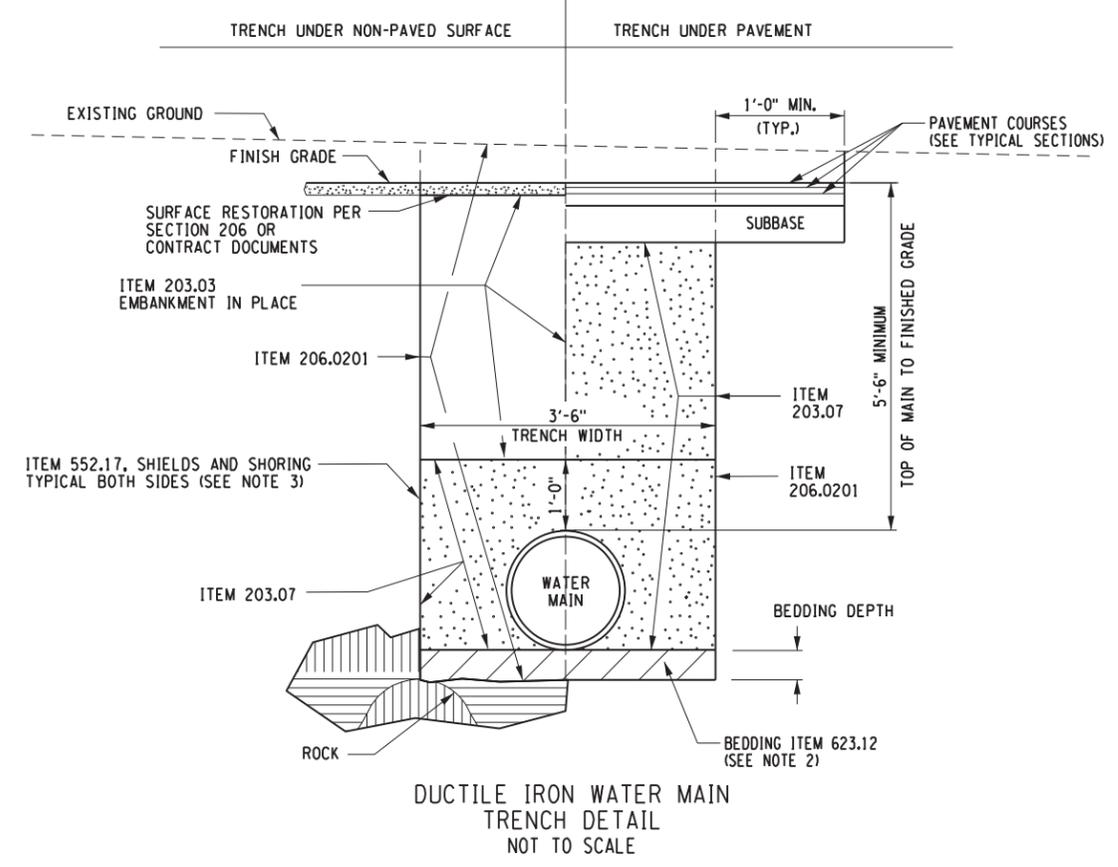
PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



WATER MAIN VALVE BOX ALTERATION NOTES:
 SEE STANDARD SHEET 663-05 FOR ADDITIONAL DETAILS AND NOTES.
 ALL PIPE, FITTINGS AND FIXTURES SHALL COMPLY WITH THE "REDUCTION OF LEAD IN DRINKING WATER ACT" OF JANUARY 4, 2011.

WATER MAIN VALVE BOX ALTERATION DETAIL (SEE NOTES, THIS DWG.)
 NOT TO SCALE

WATER MAIN VALVE BOX ALTERATION TABLE								
WW NUMBER	REFERENCE ALIGNMENT	STATION	OFFSET (FT)	SIDE	EXISTING VALVE ELEVATION (FT)	PROPOSED VALVE ELEVATION (FT)	EXTENSION HEIGHT (FT)	QUANTITY ITEM 663.33 (EACH)
1	NOBLE TERRACE	N X+XX.XX	XX.XX	RIGHT	XX.XX	XX.XX	XX.XX	X
NOTES:					A POSITIVE VALUE FOR EXTENSION HEIGHT INDICATES WATER VALVE NEEDS TO BE RAISED. A NEGATIVE VALUE INDICATES LOWERING OF WATER VALVE.			
					ITEM 663.33 - ADJUST EXISTING VALVE BOX ELEVATION.			



WATER MAIN NOTES:

- SEE SECTION 663 STANDARD SHEETS FOR ADDITIONAL NOTES & DETAILS.
- BEDDING IN NORMAL SOIL CONDITIONS, OR ROCK SHALL BE 6" OF ITEM 623.12. BEDDING IN UNSTABLE OR UNSUITABLE SOIL CONDITIONS SHALL BE 1' MIN. AND 2' MAX. OF ITEM 623.12 OR A.O.B.E. ADDITIONAL PAYMENT WILL BE MADE FOR MATERIAL PLACED TO TREAT UNSTABLE OR UNSUITABLE CONDITIONS. ITEM 623.12 SHALL BE A BLENDED PRODUCT OF 50% #1 AND 50% #2 STONE OR A.O.B.E.
- ITEM 552.17 IS REQUIRED FOR EXCAVATIONS 5' OR GREATER IN DEPTH. SEE SECTION 552 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- WHEN CONTAMINATED SOILS ARE ENCOUNTERED UNEXPECTEDLY IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE E.J.C. IMMEDIATELY. FOR WATER MAIN FACILITIES LOCATED WITHIN PETROLEUM HYDROCARBON AND/OR CHLORINATED SOLVENT CONTAMINATED SOILS, GASKETS SHALL BE MADE OF OIL RESISTANT BUNA-N (NITRILE) RUBBER. ALL JOINTS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF ANSI/AWWA C111/A21.11.

WATER MAIN VALVE BOX ALTERATION NOTES:

- WATER MAIN VALVE BOX ALTERATION LOCATIONS HAVE NOT BEEN IDENTIFIED IN THE PLANS; HOWEVER, THE DETAIL HAS BEEN INCLUDED IN THE EVENT IT IS REQUIRED.
- COST FOR VALVE BOX ALTERATION HAS BEEN INCLUDED IN ITEM 663.33.

WATER MAIN NOTES CONT.:

- THE EXISTING WATER MAIN SHALL BE PLUGGED A.O.B.E. AT LOCATIONS IT NEEDS TO BE CUT AND ABANDONED IN PLACE. COST INCLUDED IN THE WATER MAIN ITEMS.
- ALL PIPE, FITTINGS, AND FIXTURES SHALL COMPLY WITH THE "REDUCTION OF LEAD IN DRINKING WATER ACT" OF JANUARY 4, 2011.
- IF THE EXISTING PIPE IS OUTSIDE OF THE LIMITS OF ITEM 206.0201 FOR THE NEW PIPE, THE REMOVAL WILL INCLUDE ITEMS 203.02 & 203.03 IN ADDITION TO THE WATER MAIN REMOVAL ITEM. THE EXCAVATION WIDTH IS LIMITED TO THE INSIDE DIAMETER OF THE EXISTING PIPE.
- NO ADDITIONAL PAYMENT WILL BE MADE IF THE CONTRACTOR ELECTS TO SAWCUT THE EXISTING PAVEMENT.

EXCAVATION PROTECTION NOTE:

ANY EXCAVATION DEPTH GREATER THAN 5'-0" AND LESS THAN 20'-0" SHALL REQUIRE THE USE OF EXCAVATION PROTECTION FOR WORKER SAFETY. EXCAVATION PROTECTION SHALL CONSIST OF A LAYBACK SLOPE OF VERTICAL TO 1 1/2 HORIZONTAL FROM THE BOTTOM OF EXCAVATION IN AREAS WHERE A LAYBACK SLOPE IS POSSIBLE. PAYMENT FOR EXCAVATION PROTECTION IN AREAS WHERE A LAYBACK SLOPE IS UTILIZED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 206.0201 - TRENCH AND CULVERT EXCAVATION AND SHALL BE PAID NEARLINE TO THE LIMITS SHOWN. EXCAVATION PROTECTION SHALL BE PAID FOR UNDER THE UNIT PRICE BID FOR ITEM 552.17 - SHIELDS AND SHORING IN AREAS WHERE A LAYBACK SLOPE IS NOT POSSIBLE.

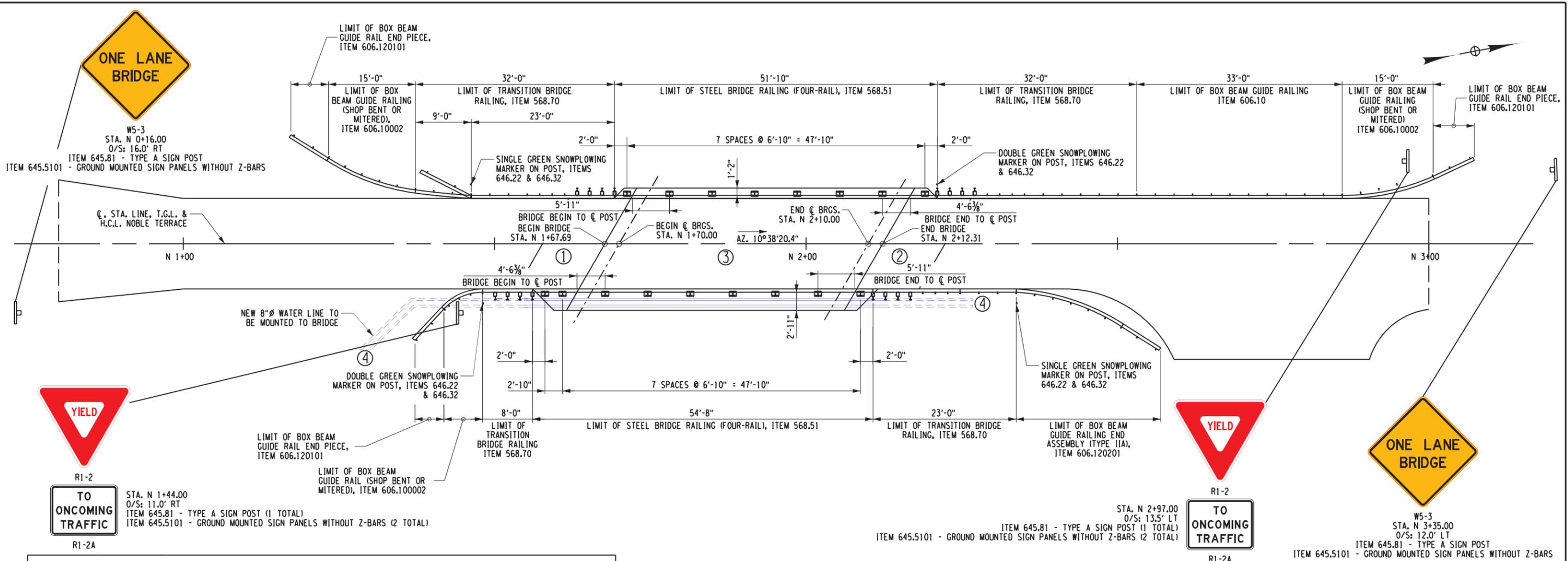
PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
	CULVERT REPLACEMENT PROJECT				PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN				DRAWING NO. ST-21
	COUNTY: ESSEX REGION: 1				SHEET NO. 25

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: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



STATION		SIDE	ITEM 568.51 (LF)	ITEM 568.70 (LF) <RADIUS>	ITEM 606.10 (LF) <RADIUS>	ITEM 606.10002 (LF) <RADIUS>	ITEM 606.120101 (EACH)	ITEM 606.120201 (EACH)
FROM	TO							
N 1+17.02	N 1+23.04	LT					1	
N 1+23.04	N 1+37.23	LT				(51.8) <35.0>		
N 1+37.23	N 1+46.23	LT		(9.0) <116.0>				
N 1+46.23	N 1+69.25	LT		(23.0)				
N 1+69.25	N 2+21.08	LT	(51.8)					
N 2+21.08	N 2+53.08	LT		(32.0)				
N 2+53.08	N 2+86.08	LT			(33.0)			
N 2+86.08	N 3+00.89	LT				(15.0) <35.0>		
N 3+00.89	N 3+07.30	LT					1	
N 1+36.82	N 1+41.50	RT					1	
N 1+41.50	N 1+48.08	RT				(7.0) <8.5>		
N 1+48.08	N 1+56.08	RT		(8.0)				
N 1+56.08	N 2+10.75	RT	(54.7)					
N 2+10.75	N 2+33.75	RT		(23.0)				
N 2+33.75	N 2+56.94	RT						1
TOTAL			106.5	95.0	33.0	73.8	3	1

PART NO.	HIGHWAY	LIMITS	FEATURES TO BE MAINTAINED	¢ MILES	LANE MILES	AGENCY	AUTHORITY FOR MAINTENANCE JURISDICTION
HIGHWAY							
①	NOBLE TERRACE	STA. N 1+00.00 TO STA. N 1+67.69	PAVEMENT DRAINAGE SYSTEM AND APPURTENANCES	0.013	0.026	TOWN OF ELIZABETHTOWN	SECTION 12 HIGHWAY LAW
②	NOBLE TERRACE	STA. N 2+12.31 TO STA. N 3+00.00	PAVEMENT DRAINAGE SYSTEM AND APPURTENANCES	0.017	0.034	TOWN OF ELIZABETHTOWN	SECTION 12 HIGHWAY LAW
STRUCTURE							
③	NOBLE TERRACE OVER BARTON BROOK	STA. N 1+67.69 TO STA. N 2+12.31	ENTIRE STRUCTURE B.I.N. XXXXXX	0.008	0.016	ESSEX COUNTY	SECTION 12 HIGHWAY LAW
WATER MAIN							
④	NOBLE TERRACE OVER BARTON BROOK	STA. N 1+29.26 TO STA. N 2+26.77	ENTIRE STRUCTURE B.I.N. XXXXXX	0.019	0.019	TOWN OF ELIZABETHTOWN	SECTION 12 HIGHWAY LAW
CONTROL OF SNOW AND ICE							
①②③	NOBLE TERRACE	STA. N 1+00.00 TO STA. N 3+00.00	ALL PAVEMENT IN PARTS 1, 2 & 3	0.038	0.076	TOWN OF ELIZABETHTOWN	SECTION 12 HIGHWAY LAW

STATION	SIDE	ITEM 646.22	ITEM 646.32
N 1+46.23	LT	1	1
N 1+56.08	RT	2	1
N 2+33.75	RT	1	1
N 2+86.08	LT	2	1
		6 EA	4 EA

ITEM NO.	DESCRIPTION
646.22	DELINEATOR, SNOW PLOWING MARKER, SUPPLEMENTARY SNOW PLOWING MARKER PANELS (GREEN)
646.32	STEEL POST, 2.0 LB/FT (7'-0" LONG)

ITEM	DESCRIPTION	UNITS
568.51	STEEL BRIDGE RAIL (FOUR RAIL)	LF
568.70	TRANSITION BRIDGE RAILING	LF
606.10	BOX BEAM GUIDE RAILING	LF
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR MITERED)	LF
606.120101	BOX BEAM GUIDE RAILING END PIECE	EACH
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY (TYPE IIA)	EACH

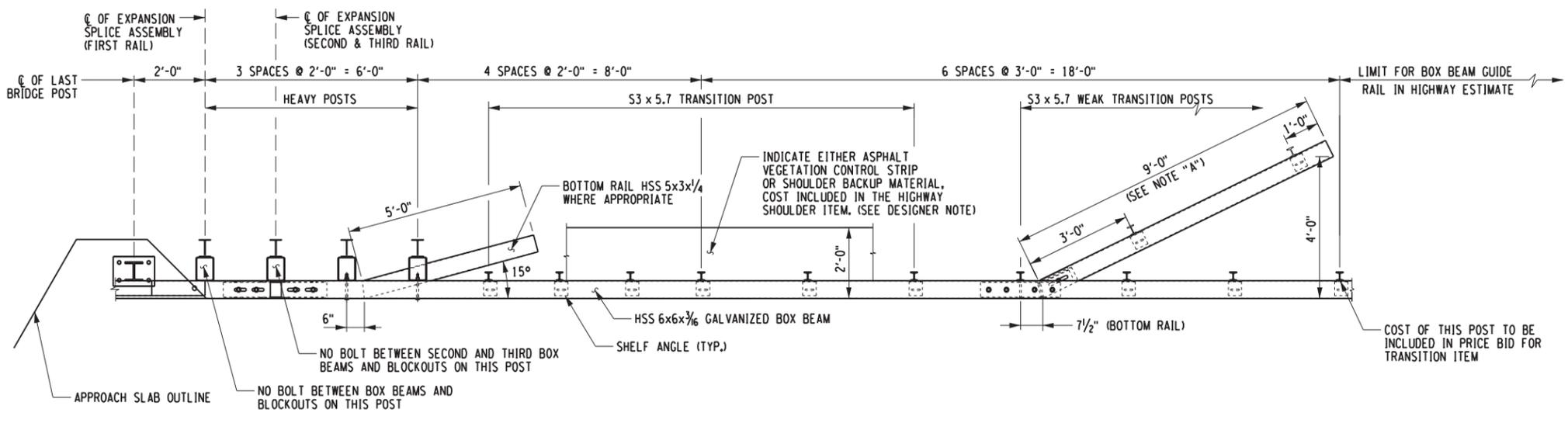
PREPARED BY: CHARLES TUTUNJIAN, P.E.
 ON: 02/10/2026

ALTERED BY:
 ON:

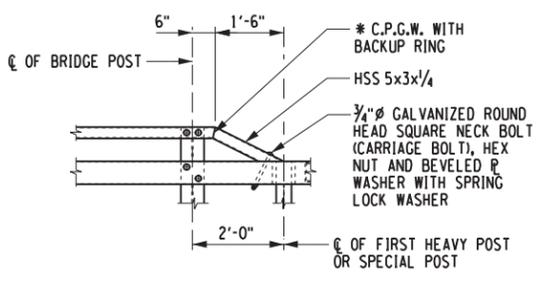
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK CULVERT REPLACEMENT PROJECT	BRIDGES BIN TBD	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814 PROJECT NUMBER: 766429
	TOWN OF ELIZABETHTOWN			RAILING PLAN & TABLES	DRAWING NO. ST-22
	COUNTY: ESSEX REGION: 1				SHEET NO. 27

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.

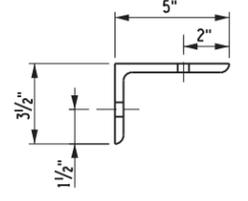
PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



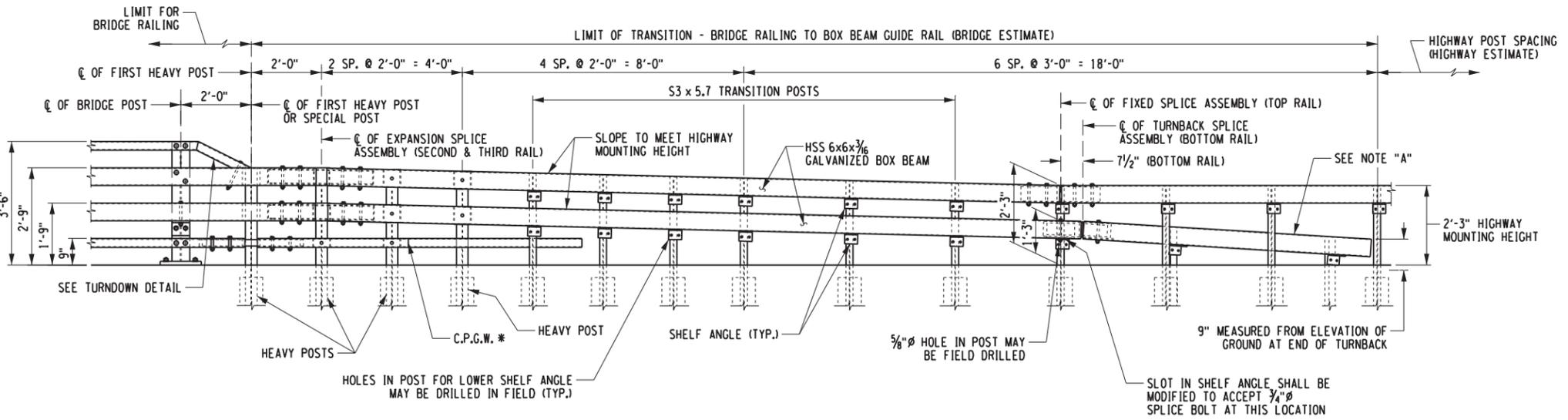
TRANSITION RAIL PLAN
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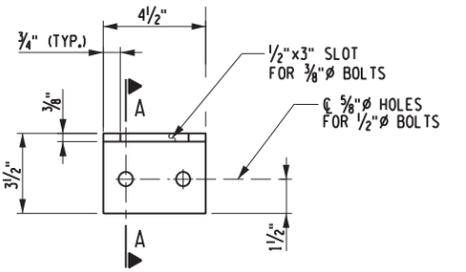
TURNDOWN DETAIL
(NOT TO SCALE)



SECTION A-A



TRANSITION RAIL ELEVATION
(NOT TO SCALE)



ELEVATION SHELF ANGLE DETAILS
(NOT TO SCALE)

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

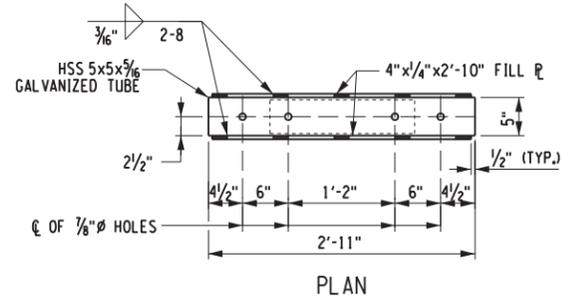
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ON:



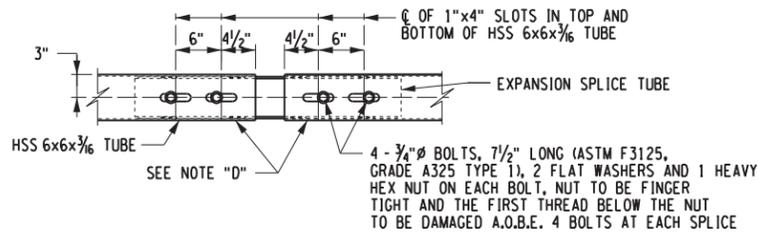
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	TOWN OF ELIZABETHTOWN			TRANSITION RAIL PLAN, ELEVATION AND DETAILS	DRAWING NO. ST-24
	COUNTY: ESSEX	REGION: 1			SHEET NO. 29

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.

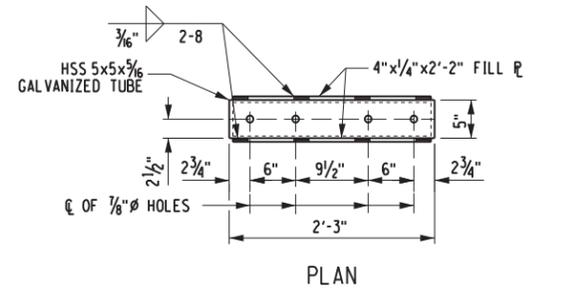
PROJECT MANAGER: C. TUTUNJIAN
 CHECKED BY: I. PENGU
 DRAFTED BY: C. VICKERY
 CHECKED BY: I. PENGU
 DESIGNED BY: C. VICKERY



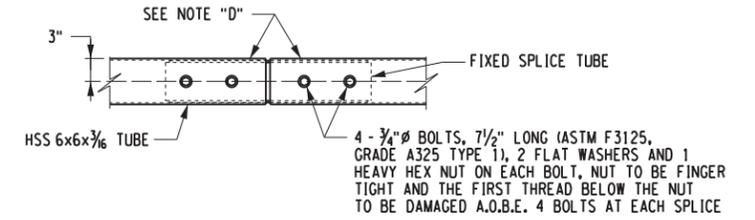
PLAN



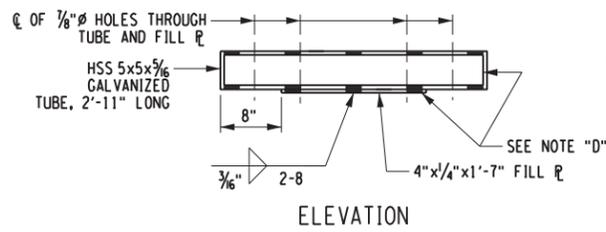
PLAN



PLAN

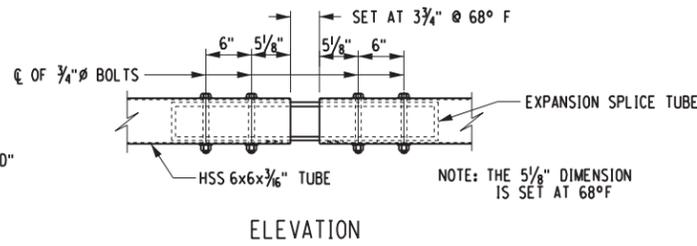


PLAN



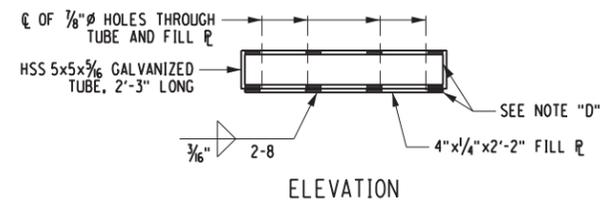
ELEVATION

EXPANSION SPLICE TUBE
(NOT TO SCALE)



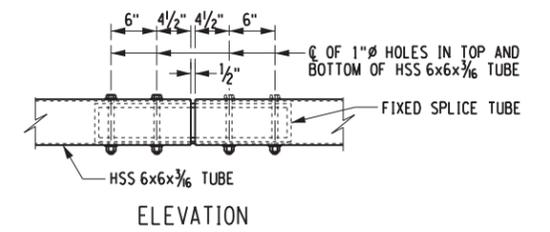
ELEVATION

EXPANSION SPLICE ASSEMBLY
(NOT TO SCALE)



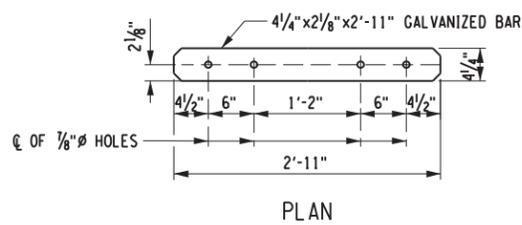
ELEVATION

FIXED SPLICE TUBE
(NOT TO SCALE)

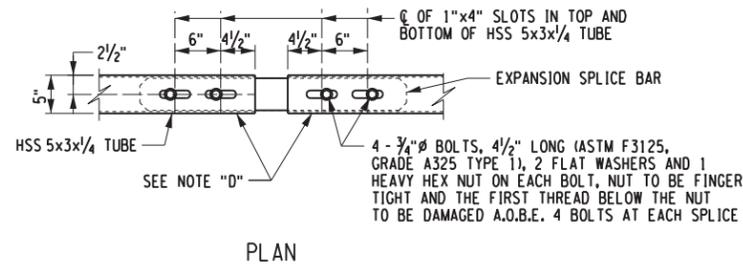


ELEVATION

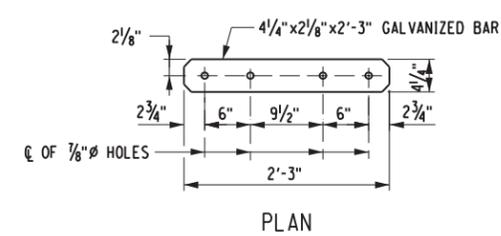
FIXED SPLICE ASSEMBLY
(NOT TO SCALE)



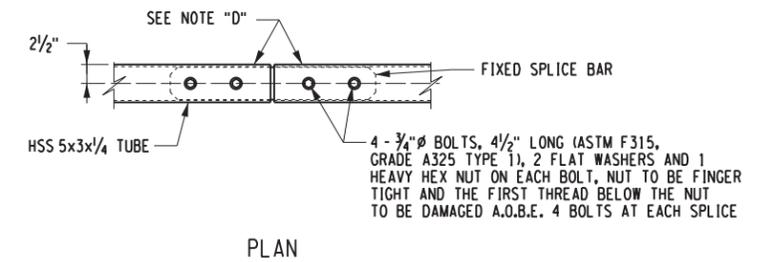
PLAN



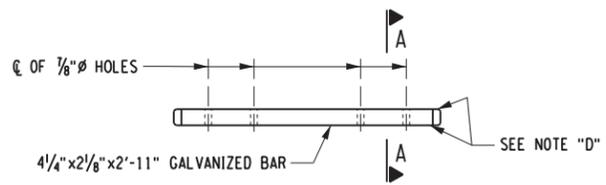
PLAN



PLAN

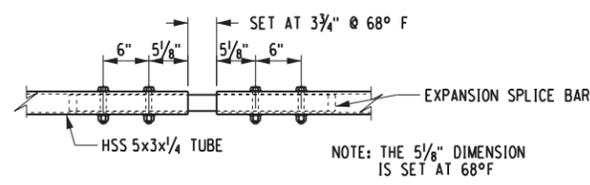


PLAN



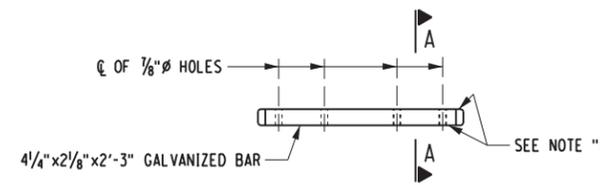
ELEVATION

EXPANSION SPLICE BAR
(NOT TO SCALE)



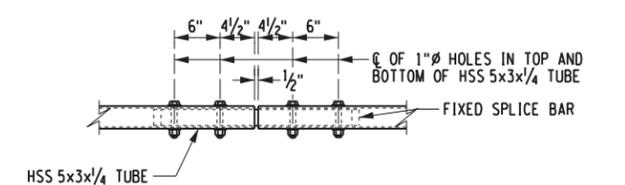
ELEVATION

EXPANSION SPLICE ASSEMBLY
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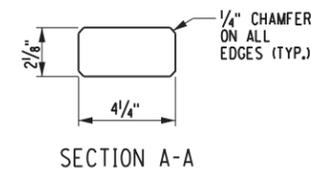
ELEVATION

FIXED SPLICE BAR
(NOT TO SCALE)



ELEVATION

FIXED SPLICE ASSEMBLY
(NOT TO SCALE)



SECTION A-A

PREPARED BY: CHARLES TUTUNJIAN, P.E.
ON: 02/10/2026

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NOBLE TERRACE OVER BARTON BROOK CULVERT REPLACEMENT PROJECT
	TOWN OF ELIZABETHTOWN
	COUNTY: ESSEX REGION: 1

BRIDGES BIN TBD	CULVERTS
--------------------	----------

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER DR 4814
TRANSITION RAIL DETAILS - 2	PROJECT NUMBER: 766429
	DRAWING NO. ST-25
	SHEET NO. 30

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 of Elizabethtown

