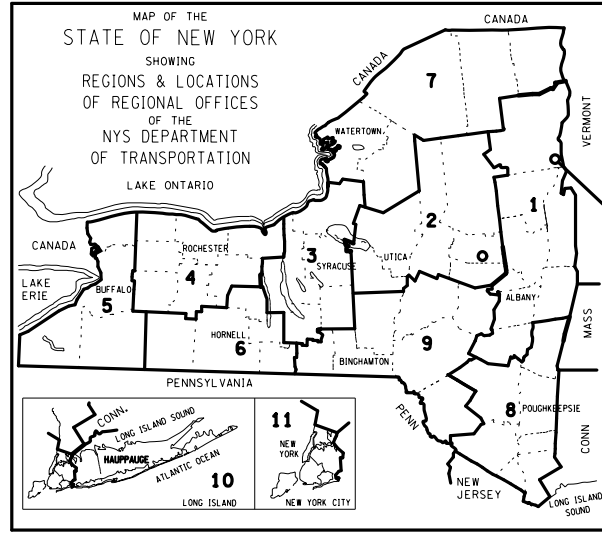


DESIGN SUPERVISOR J. SIMKULET  
 JOB MANAGER D. THOMAS  
 DESIGN S. KERN  
 CHECK B. WEAVER  
 DRAFTING F. CIUCCIO  
 CHECK S. KERN  
 PROJECT MANAGER S. KERN



PROJECT LOCATION



VETERAN'S ROAD CULVERT REPLACEMENT  
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA  
ESSEX COUNTY  
NEW YORK

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE NYS DOT STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL".

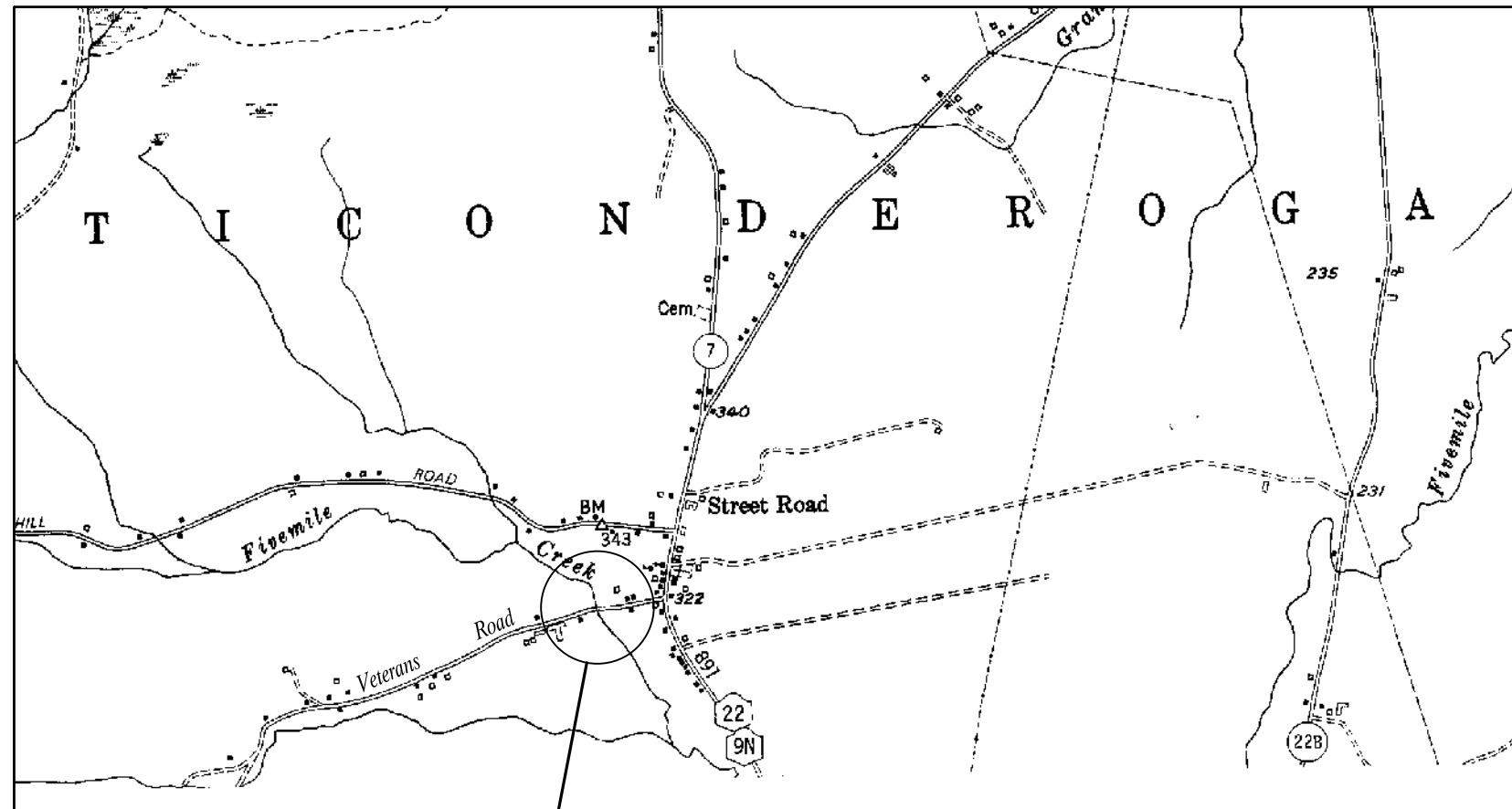
CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYS DOT POLICIES AND GUIDELINES.

28 SHEETS

CONTRACT NO. D036296

TOWN OF TICONDEROGA

CONTRACTOR'S NAME	_____
AWARD DATE	_____
COMPLETION DATE	_____
FINAL ACCEPTANCE DATE	_____
ENGINEER IN CHARGE	_____
FINAL COST TOTAL	_____



PROJECT LOCATION

PROJECT LOCATION  
NOT TO SCALE

PREPARED AND  
RECOMMENDED BY:



*Shert Kern*  
 SHERT KERN, P.E.  
 PROJECT MANAGER/STRUCTURAL ENGINEER

*John Simkulet*  
 JOHN SIMKULET, P.E.  
 VICE PRESIDENT/DIRECTOR OF BRIDGE ENGINEERING

**GPI**  
 GREENMAN-PEDERSEN, INC.  
 CONSULTING ENGINEERS  
 80 WOLF ROAD, SUITE 300  
 ALBANY, NY 12205

VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK		
TOWN OF TICONDEROGA		
COUNTY: ESSEX		
FED. ROAD REG. NO.	STATE	SHEET NO.
1	N.Y.	1
CAPITAL PROJECT IDENTIFICATION NO. 1761.09		
INDEX ON SHEET NO. 2		

APPROVED BY

*Gary Rancour*  
 GARY RANCOUR  
 ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 1/3/2022

ALIGNMENT		TOPOGRAPHY (MISCELLANEOUS)		UTILITIES	
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AH	AHEAD	ABUT	ABUTMENT	E	ELECTRIC
AZ	AZIMUTH	AOBE	AS ORDERED BY ENGINEER	EMH	ELECTRIC MANHOLE
BK	BACK	ASPH	ASPHALT	G	GAS
B	BASELINE	BDY	BOUNDARY	GP	GUY POLE
BRC	BEARING	BLDG	BUILDING	GSB	GAS SERVICE BOX (HOUSE LINE)
C	CENTERLINE	BM	BENCH MARK	GV	GAS VALVE (MAIN LINE)
CS	CURVE TO SPIRAL	CC	CENTER TO CENTER	HYD	HYDRANT
e	SUPERELEVATION RATE (CROSS SLOPE)	CONC	CONCRETE	LP	LIGHT POLE
EQ	EQUALITY	CONST	CONSTRUCTION	LPG	LOW PRESSURE GAS
EXT	EXTERNAL	CR	COUNTY ROAD	PP	POWER POLE
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTANCE	SA	SANITARY SEWER
HSD	HEADLIGHT SIGHT DISTANCE	DM	DIRECT MEASUREMENT	SMH	SANITARY MANHOLE
L	LENGTH OF CIRCULAR CURVE	DWY	DRIVEWAY	ST	STORM SEWER
LS	LENGTH OF SPIRAL	EP	EDGE OF PAVEMENT	T	TELEPHONE
LVC	LENGTH OF VERTICAL CURVE	ES	EDGE OF SHOULDER	TCB	TRAFFIC CONTROL BOX
E	CENTER CORRECTION OF VERTICAL CURVE	FEE	FEE ACQUISITION	TELBOX	TELEPHONE BOX
M	MAIN LINE	FEE WO/A	FEE ACQUISITION WITHOUT ACCESS	TEL P	TELEPHONE POLE
PC	POINT OF CURVATURE	FP	FENCE POST	TMH	TELEPHONE MANHOLE
PI	POINT OF INTERSECTION	FD	FOUNDATION	CTV	CABLE TELEVISION
POL	POINT ON LINE	FL	FENCE LINE	W	WATER
PSD	PASSING SIGHT DISTANCE	GAR	GARAGE	WSB	WATER SERVICE BOX (HOUSE LINE)
PT	POINT OF TANGENT	GR	GRAVEL	WV	WATER VALVE (MAIN LINE)
PVC	POINT OF VERTICAL CURVE	HO	HOUSE	<b>SUBSURFACE EXPLORATION</b>	
PVI	POINT OF VERTICAL INTERSECTION	HWY	HIGHWAY		
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OR IRON PIPE	<b>ABBR.</b>	<b>DESCRIPTION</b>
R	RADIUS	MB	MAILBOX	<b>REPLACE ABBREVIATION "AB" WITH:</b>	
SC	SPIRAL TO CURVE	MON	MONUMENT	AH	HAND AUGER
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND WASHER	CP	CONE PENETROMETER
ST	SPIRAL TO TANGENT	OG	ORIGINAL GROUND	DA	2 1/4 INCHES CASED DRILL HOLE
STA	STATION	O/H	OVERHEAD	DM	DRILLING MUD
T	TANGENT LENGTH	P	PARCEL	DN	4 INCHES CASED DRILL HOLE
TGL	THEORETICAL GRADE LINE	PAV'T	PAVEMENT	FH	HOLLOW FLIGHT AUGER
TS	TANGENT TO SPIRAL	PE	PERMANENT EASEMENT	PA	POWER AUGER
VC	VERTICAL CURVE	PED POLE	PEDESTRIAN POLE	PH	PROBE
<b>TOPOGRAPHY (DRAINAGE)</b>		P	PROPERTY LINE	PT	PERCOLATION TEST HOLE
<b>ABBR.</b>	<b>DESCRIPTION</b>	POR	PORCH	RP	1 INCH SAMPLER (RETRACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RR	RAILROAD	<b>ABBREVIATION "C" IN CATAGORIES: DA, DM, DN, AND FH WITH:</b>	
BC	BOTTOM OF CURB	RTE	ROUTE		
BO	BOTTOM OF OPENING	ROW	RIGHT OF WAY	B	BRIDGE
CAP	CORRUGATED ALUMINUM PIPE	RW	RETAINING WALL	C	CUT
CB	CATCH BASIN	SH	STATE HIGHWAY	D	DAM
CIP	CAST IRON PIPE	SHLDR	SHOULDER	F	FILL
C STRM	CENTERLINE OF STREAM	SPK	SPIKE	K	CULVERT
CMP	CORRUGATED METAL PIPE	ST	STREET	W	WALL
CP	CONCRETE PIPE	STK	STAKE	X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE
CSP	CORRUGATED STEEL PIPE	STY	STORY		
CULV	CULVERT	SW	SIDEWALK		
DIA	DIAMETER	TE	TEMPORARY EASEMENT		
DMH	DRAINAGE MANHOLE	TO	TEMPORARY OCCUPANCY		
DS	DRAINAGE STRUCTURE PIPE	U/G	UNDERGROUND		
D'XING	DITCH CROSSING	WW	WING WALL		
EHW	EXTREME HIGH WATER				
EL	ELEVATION				
ELEV	ELEVATION				
ELW	EXTREME LOW WATER				
ES	END SECTION				
HW	HEADWALL				
INV	INVERT				
MH	MANHOLE				
MHW	MEAN HIGH WATER				
OHW	ORDINARY HIGH WATER				
OLW	ORDINARY LOW WATER				
RCP	REINFORCED CONCRETE PIPE				
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE				
TB	TOP OF BANK (STREAM)				
TC	TOP OF CURB				
TG	TOP OF GRATE				
VCP	VITRIFIED CLAY PIPE				

**STANDARD SHEETS:**

203-01, 607-04, 607-06, 608-01, 608-03, 609-01, 609-02, 609-04, 619-01, 619-02, 619-10, 619-11, 619-12, 619-50, 619-62, 625-01, 663-01

INDEX		28 SHEETS	
SHEET NO.	DESCRIPTION	DRAWING NO.	
1	COVER		
2	INDEX AND ABBREVIATIONS	IND-1	
3	LEGEND (1 OF 2)	LEG-1	
4	LEGEND (2 OF 2)	LEG-2	
5	GENERAL NOTES (1 OF 2)	GNN-1	
6	GENERAL NOTES (2 OF 2)	GNN-2	
7	WORK ZONE TRAFFIC CONTROL GENERAL NOTES	WZT-1	
8	WORK ZONE TRAFFIC CONTROL PLAN	WZT-2	
9	CONSTRUCTION STAGE 1A PLAN AND TYPICAL SECTION	ST-1	
10	CONSTRUCTION STAGE 1B PLAN AND TYPICAL SECTION	ST-2	
11	CONSTRUCTION STAGE 2 PLAN AND TYPICAL SECTION	ST-3	
12	GENERAL PLAN	ST-4	
13	BRIDGE PLAN AND TYPICAL SECTION	ST-5	
14	TYPICAL ROADWAY SECTIONS	ST-6	
15	PROFILE	ST-7	
16	PILE CAP REINFORCEMENT DETAILS (1 OF 2)	ST-8	
17	PILE CAP REINFORCEMENT DETAILS (2 OF 2)	ST-9	
18	FRAMING PLAN	ST-10	
19	WATER MAIN PLAN AND PROFILE	ST-11	
20	MISCELLANEOUS DETAILS	ST-12	
21	PROPOSED RAILING PLAN	ST-13	
22	RAILING DETAILS (1 OF 3)	ST-14	
23	RAILING DETAILS (2 OF 3)	ST-15	
24	RAILING DETAILS (3 OF 3)	ST-16	
25	BAR BENDS	ST-17	
26	BAR LIST (1 OF 2)	ST-18	
27	BAR LIST (2 OF 2)	ST-19	
28	ESTIMATE OF QUANTITIES	EQQ-1	

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

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK					INDEX AND ABBREVIATIONS
	TOWN OF TICONDEROGA					
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.						
			<b>GPI</b> GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS		TOWN OF TICONDEROGA	

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

- 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:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK					
	TOWN OF TICONDEROGA					
	COUNTY: ESSEX	REGION: 1			LEGEND (1 OF 2)	DRAWING NO. LEG-1 SHEET NO. 3
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.						
<b>GPI</b> GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS					TOWN OF TICONDEROGA	

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	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	⊕	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICJCB	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"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICTD	CONDUIT TURNING DOWN	⊕	MFAP_P	FEE ACQUISITION, APPROX.	⊕	SRSC4	SHLD, CTY TOUR, 1-2 DIG.	⊕	UGVT	GAS, VENT			
⊕	APCC	POINT OF COMPOUND CURVATURE	⊕	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICTU	CONDUIT TURNING UP	⊕	MFP_P	FEE ACQUISITION, BACK LINE	⊕	SRSI	SHLD, INTERSTATE	⊕	ULP	LIGHTING, POLE			
⊕	API	POINT OF INTERSECTION	<b>ENVIRONMENTAL</b>			⊕	ICVTRT	COMM. VEH. ROAD TRANSCEIVER	⊕	MFSP_P	FEE ACQUISITION, SHAPE	⊕	SRSN2	SHLD, NATIONAL, 2 DIG.	⊕	ULPM	LIGHTING, POLE, MEDIAN			
⊕	APOB	POINT OF BEGINNING				+	IDEFAULT	DEFAULT	⊕	IEZR	E-ZPASS READER	⊕	MHBAP	HIGHWAY BNDRY., APPROX.	⊕	SRSN3	SHLD, NATIONAL, 3 DIG.	⊕	ULPP	LIGHTING, POLE, PED.
⊕	APOC	POINT OF CURVATURE	⊕	EIOP_P	STR., INLET, OUTLET PROT.	⊕	IEZTR	TRANSMITTAL 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	⊕	IEZ-T	IEZTR	⊕	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	⊕	EIPHS_P	STR., INLET PROT., HAY/STRAW	⊕	IFUSSPL	FUSION SPLICE	⊕	MPBC	PT., BUILDING CORNER	<b>TRAFFIC CONTROL</b>			⊕	UPD	POLE, DEAD (NO UTILITY)			
⊕	APOT	POINT ON TANGENT	⊕	EIPP_P	STR., INLET PROT., PREFAB.	⊕	IHARADV	HAR ADVISORY SIGN	⊕	MPCC	PT., CROSS CUT				⊕	UPL	POLE, WITH LIGHT			
⊕	APOVC	POINT ON VERTICAL CURVE	⊕	EIPSF_P	STR., INLET PROT., SILT FENCE	⊕	IHARST	HAR SITE	⊕	MPDH	PT., DRILL HOLE	⊕	USMH	SANITARY SEWER MANHOLE						
⊕	APOVT	POINT ON VERTICAL TANGENT	⊕	ERCB	RISER, CONCRETE BOX	⊕	ILC	LOAD CENTER	⊕	MPF	PT., FENCE LOCATION	⊕	UTB	TELEPHONE, BOOTH						
⊕	APORC	POINT ON REVERSE CURVE	⊕	ETRS_P	TRAP, SEDIMENT	⊕	IMECSPL	MECHANICAL SPLICE	⊕	MPIP	PT., IRON PIPE	⊕	UTLM	TELEPHONE, LINE MARKER						
⊕	APT	POINT OF TANGENCY	⊕	EWFG	WETLAND FLAG	⊕	IMSCS	PORT. SPEED & COUNT SENSOR	⊕	MPIR	PT., IRON ROD	⊕	UTMH	TELEPHONE, MANHOLE						
⊕	APVC	POINT OF VERTICAL CURVATURE	<b>GEOTECHNICAL</b>			⊕	IMSCTS	MICRO SPEED & COUNT SENSOR	⊕	MPM	PT., MONUMENT	⊕	UTVLM	CABLE TV, LINE MARKER						
⊕	APVCC	POINT OF VERT. CMPND CURVE				⊕	IMT	MICROWAVE TRANSCEIVER	⊕	MPMM	PT., MONUMENT, MISC.	⊕	MPPB	PT., BUILDING CORNER	⊕	UTVPB	CABLE TV, PULL BOX			
⊕	APVI	POINT OF VERT. INTERSECTION	⊕	GDH	DRILL HOLE	⊕	IOVHVMS	PERM. OVERHEAD VMS	⊕	MPN	PT., NAIL	⊕	UUB	UNKNOWN, BOX						
⊕	APVRC	POINT OF VERT. REVERSE CURVE	<b>LANDSCAPE</b>			⊕	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	⊕	MPRS	PT., RAILROAD SPIKE	<b>TRAFFIC WORK ZONE</b>			⊕	UUB	UNKNOWN, BOX			
⊕	APVT	POINT OF VERTICAL TANGENCY				⊕	IPEDS	PEDESTRIAN SIGNAL HEAD	⊕	IPSS	PAVEMENT SURFACE SENSOR				⊕	MPSP	PT., SPIKE	⊕	UUB	UNKNOWN, BOX
⊕	ASC	SPIRAL TO CURVE	+	LELS	ELEVATION, SPOT	⊕	IPSS	PAVEMENT SURFACE SENSOR	⊕	MPST	PT., STAKE	⊕	UUB	UNKNOWN, BOX						
⊕	ASPI	SPIRAL POINT OF INTERSECTION	⊕	LFP	FLAG POLE	⊕	IPVMS	PERM. VMS	⊕	MPTW	PT., TREE W/ WIRE	⊕	UUB	UNKNOWN, BOX						
⊕	ASTS	SPIRAL TO SPIRAL	⊕	LMB	MAILBOX	⊕	IRM	RAMP METER	⊕	MPWL	PT., WALL LOCATION	⊕	UUB	UNKNOWN, BOX						
⊕	AST	SPIRAL TO TANGENT	⊕	LPB	PAPER BOX	⊕	IRWIS	RDWY WEATHER INFO. SENSOR	<b>ROW ACQUISITION</b>			⊕	UUB	UNKNOWN, BOX						
⊕	ATS	TANGENT TO SPIRAL	⊕	LPST	POST, SINGLE	⊕	ISP	SOLAR PANEL				⊕	MFS_P-T	FEE ACQUISITION	⊕	UUB	UNKNOWN, BOX			
⊕	AVEVT	VERTICAL EVENT POINT	⊕	LRB	ROCK, BOULDER	⊕	ISST	SPREAD SPECT. TRANSCEIVER	⊕	MEPS_P-T	EASEMENT, PERMANENT	⊕	UUB	UNKNOWN, BOX						
⊕	AVHIGH	VERTICAL HIGH POINT	⊕	LSHC	SHRUB, CONIFEROUS	⊕	ITDB	TELEPHONE DEMARCATION BLK	⊕	METS_P-T	EASEMENT, TEMPORARY	⊕	UUB	UNKNOWN, BOX						
⊕	AVLOW	VERTICAL LOW POINT	⊕	LSHD	SHRUB, DECIDUOUS	⊕	ITP	SUBSURFACE TEMP. PROBE	⊕	METS_P-T	EASEMENT, TEMPORARY	⊕	UUB	UNKNOWN, BOX						
<b>BRIDGE</b>			⊕	LTC	TREE, CONIFEROUS	⊕	IVTRT	VEHICLE TO RDWY TRANSCEIVER	⊕	METS_P-T	OCCUPANCY, TEMPORARY	⊕	UUB	UNKNOWN, BOX						
			⊕	LTD	TREE, DECIDUOUS	⊕	IWIMD	WEIGHT IN MOTION DETECTOR	⊕	METS_P-T	OCCUPANCY, TEMPORARY	⊕	UUB	UNKNOWN, BOX						
<b>CONTROL</b>			⊕	LTS	TREE, STUMP	⊕	IWVR	WIRELESS VIDEO REPEATER	⊕	MFS_P-T	FEE ACQUISITION W/O ACCESS	⊕	UUB	UNKNOWN, BOX						
			⊕	LTW_P	TREE, WELL OR WALL	⊕	IWVRC	WIRELESS VIDEO RECEIVER	⊕	IWVTT	WIRELESS VIDEO TRANSMITTER	⊕	RES_P	ELEVATION, SPOT	⊕	UUB	UNKNOWN, BOX			
⊕	LUKP	UNKNOWN POINT	SEE LEG-1 FOR NOTES			⊕	IWVTT	WIRELESS VIDEO TRANSMITTER	<b>ROADWAY</b>			⊕	UUB	UNKNOWN, BOX						
⊕	BSC	BRIDGE, SCUPPER				⊕	RGA	GUIDE RAIL, ANCHOR				⊕	RGP	GUIDE POST, SINGLE	⊕	UUB	UNKNOWN, BOX			

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK					
	TOWN OF TICONDEROGA					
	COUNTY: ESSEX REGION: 1					
LEGEND (2 OF 2)						DRAWING NO. LEG-2 SHEET NO. 4
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.						
<b>GPI</b> GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS				TOWN OF TICONDEROGA		

**GENERAL NOTES**

- DESIGN SPECIFICATIONS: NYS DOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF MAY 2022 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AT 28 DAYS:  $f'_c = 3000 \text{ psi}$ )
- LIVE LOAD: AASHTO HL-93
- CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD 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.
- THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.
- UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR. THE CONTRACTOR SHALL ALSO OBTAIN WRITTEN PERMISSION OF THE E.I.C. BEFORE PROCEEDING.
- THE LOAD RATINGS ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION. NEW SUPERSTRUCTURES SHALL MEET OR EXCEED 1.20 LRFR INVENTORY LOAD RATING FOR MOMENT, SHEAR, AND DEFLECTION PER NYS DOT BRIDGE MANUAL, AND SHALL MEET OR EXCEED 1.00 ASD/LFD INVENTORY LOAD RATING FOR MOMENT, SHEAR, AND DEFLECTION.
- ALL DRAWINGS AND CALCULATIONS SUBMITTED BY THE CONTRACTOR FOR ENGINEER REVIEW SHALL BE IN PDF FORMAT AND SHALL BE EITHER 8.5" X 11" OR 11" X 17" WITH TEXT SIZE SHALL BE NO SMALLER THAN 1/16". SUBMISSIONS ILLEGIBLE WHEN PRINTED ON PAPER WILL BE REJECTED. FULL SIZE AND PAPER SUBMISSIONS SHALL NOT BE ACCEPTED OR REVIEWED. ALL DRAWINGS AND CALCULATIONS SHALL NOTE THE DESIGNER AND CHECKER. THE DESIGNER SHALL NOT CHECK THEIR OWN WORK. 11" X 17" DRAWINGS SHALL HAVE A BLANK SPACE THAT IS EITHER 2.5" X 5.5" OR 3.5" X 3.5" FOR PLACEMENT OF THE REVIEWER'S STAMP. 8.5" X 11" DRAWINGS SHALL HAVE AN APPROVAL COVER SHEET IF SPACE FOR THE STAMP DOES NOT FIT ON THE ACTUAL DRAWING.
- DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.

**COFFERDAM AND HYDRAULIC NOTES**

- SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS OF THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE TOWN AND COUNTY.
- WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF THE SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.
- THE COFFERDAMS ARE TO BE CONTRACTOR DESIGNED. A COFFERDAM PLAN SHALL BE SUBMITTED TO THE ENGINEER FIFTEEN (15) DAYS PRIOR TO INSTALLATION.
- 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 E.I.C. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.
- ORDINARY HIGH WATER IS ESTIMATED TO BE 304.40 FEET. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.

**SUPERSTRUCTURE NOTES**

- PER THE REQUIREMENTS OF §107-05, AN ERECTION PLAN FOR THE INSTALLATION OF THE TAPPAN ZEE PANELS, SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO INSTALLATION.
- RECORD PLANS FOR THE TAPPAN ZEE PANELS ARE AVAILABLE.
- THE TAPPAN ZEE PANELS ARE OWNED BY THE COUNTY. THE CONTRACTOR WILL BE RESPONSIBLE FOR TRANSPORTING AND INSTALLING THE PANELS ON SITE.

**REMOVAL NOTES**

- EXISTING STRUCTURE ABOVE EL. 311.50 SHALL BE REMOVED UNDER ITEM 202.120001.
- ACCORDING TO THE REQUIREMENTS OF §202-3.01 GENERAL AND SAFETY REQUIREMENTS, A REMOVAL PLAN, SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION.
- RECORD PLANS FOR THIS STRUCTURE ARE NOT AVAILABLE.

**RECONSTRUCTION NOTES**

- DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THIS TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE TOWN AND COUNTY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE TOWN AND COUNTY THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK WILL BE STOPPED UNTIL ADEQUATE PROTECTION IS PROVIDED.
- ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE TOWN AND COUNTY.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.
- CONTRACTOR SHALL MOUNT NEW BRIDGE IDENTIFICATION NUMBER 2271420 PLATE THAT MEETS THE FOLLOWING MATERIAL REQUIREMENTS:

PANEL WITH REFLECTIVE BACKGROUND: THE ALUMINUM PANEL SHALL CONFORM TO THE REQUIREMENTS OF THE NYS DOT STANDARD SPECIFICATIONS. THE BACKGROUND MATERIAL SHALL BE GREEN REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF THE NYS DOT STANDARD SPECIFICATIONS FOR CLASS A SHEETING. THE SIZE OF THE PANELS SHALL BE 1/8 INCH THICK BY 3 INCHES BY 12 INCHES. A THIN RUBBER OR PLASTIC GASKET OR SHEETING MATCHING THE PLATE SIZE SHALL BE PLACED BEHIND THE PLATE PRIOR TO INSTALLATION.


NUMBERS: THE NUMBERS SHALL BE REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF THE NYS DOT STANDARD SPECIFICATIONS FOR CLASS A SHEETING, EXCEPT THAT THE ADHESIVE SHALL BE PRESSURE-SENSITIVE SUCH THAT THE NUMBERS CAN BE APPLIED TO THE BACKGROUND IN THE FIELD. THE NUMBERS SHALL BE 2 INCHES HIGH AND SILVER-WHITE IN COLOR CONFORMING TO FHWA SERIES C DIMENSIONS.



PRIOR TO PLACING THE NUMBERS ON THE PANEL, THE REFLECTIVE BACKGROUND SHALL BE CLEAN AND FREE OF DIRT AND OIL WHICH MAY ADVERSELY AFFECT PROPER ADHESION. THE NUMBERS SHALL BE PLACED ON THE REFLECTIVE BACKGROUND, PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE PANEL AND VERTICALLY CENTERED. THE REFLECTIVE BACKGROUND AND NUMBERS SHALL BE COATED AND/OR EDGE SEALED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SHEETING MANUFACTURER.

THE BIN PLATE SHALL BE ATTACHED TO THE BEGINNING ABUTMENT, RIGHT SIDE OF THE BRIDGE USING EXPANSION ANCHORS. THE PLATE SHALL BE PLACED HIGH ON THE ABUTMENT, NEAR THE FASCIA OF THE BRIDGE SO THAT IT CANNOT BE PAINTED OVER VIA A SPRAY PAINT CAN OR EASILY REMOVED OR DAMAGED.

**STREAM PROTECTION NOTE**

- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:	ALTERED BY: ON:
	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK					DRAWING NO. GNN-1
	TOWN OF TICONDEROGA					SHEET NO. 5
COUNTY: ESSEX	REGION: 1	GENERAL NOTES (1 OF 2)			 	
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.						

**HIGHWAY GENERAL NOTES**

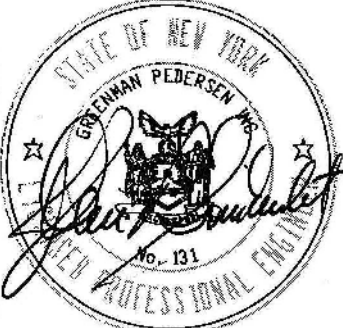
- CURRENT NATIONAL "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH NEW YORK STATE SUPPLEMENT SHALL BE IN EFFECT FOR THIS PROJECT
- ADDITIONAL NOTES MAY BE FOUND ON SUBSEQUENT DRAWINGS. SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWING THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING CONDITIONS AND DIMENSIONS WITH THOSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS, AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE SO NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL.
- THERE SHALL BE NO CLAIM AGAINST THE TOWN AND COUNTY BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT.
- AT ALL TIMES, THE CONTRACTOR SHALL TAKE MEASURES TO PROVIDE POSITIVE DRAINAGE OF SURFACE RUNOFF FROM THE TRAVEL LANES AND CONTROL OF THE RUNOFF TO PREVENT EROSION, POLLUTION, SEDIMENTATION OR OTHER DISCHARGES WHICH WOULD AFFECT PROPERTIES ADJACENT TO THE WORK SITE. ALL MEASURES TAKEN TO PROVIDE POSITIVE DRAINAGE SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHOULD NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR AS ORDERED BY THE ENGINEER AND PAYMENT SHALL BE MADE AT THE BID PRICE FOR THE APPROPRIATE ITEMS.
- NO PAYMENT SHALL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS, IN THE SPECIFICATIONS, OR UNDER THE HEADING GENERAL NOTES UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING OR OTHER DEVICES THAT MAY BE REQUIRED OR THAT MAY BE DIRECTED BY THE ENGINEER TO PROTECT THE SAFETY OF ADJACENT STRUCTURES, ROADWAYS OR THE VARIOUS ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE.
- PAVED AREAS DISTURBED BY THE CONTRACTOR WHICH ARE NOT PART OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED TO AN ACCEPTABLE CONDITION AS SPECIFIED BY AND SATISFACTORY TO THE ENGINEER. NO PAYMENT WILL BE MADE FOR RESTORING AREAS NOT PART OF THIS CONTRACT.
- PROVISIONS TO DE-WATER EXCAVATIONS, DUE TO CONSTRUCTION OPERATIONS ALONG THE PROJECT MAY BE REQUIRED. THERE SHALL BE NO DIRECT PAYMENT FOR ANY DE-WATERING SYSTEMS. COST SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES, WITHIN THE CONTRACT LIMITS, CLEAN AND FULLY OPERATIONAL AT ALL TIMES (A.O.B.E.). THIS WORK SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT AS REQUIRED AND IN ACCORDANCE WITH SECTION 625 OF THE STANDARD SPECIFICATIONS. COST FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 625.01-SURVEY OPERATIONS.
- THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING TO BECOME FAMILIAR WITH THE PRESENT CONDITIONS AND TO JUDGE THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO INCLUDE IN THE BID ALL ITEMS AND MATERIALS WHICH ARE REQUIRED TO BE FURNISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS.

**RIGHT-OF-WAY NOTES**

- FOR THIS PROJECT THE PUBLIC RIGHT-OF-WAY, AS REFERENCED IN THE SUBSEQUENT RIGHT-OF-WAY NOTES, SHALL ONLY INCLUDE THE PUBLIC RIGHT-OF-WAY.
- ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.
- IF 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 SPECIFICATION SECTIONS 105-10 AND 625).
- IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTION 105-15).
- THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).



**UTILITY NOTES**

- AN UNDERGROUND WATER LINE OWNED BY THE TOWN IS LOCATED IN THE EXISTING BRIDGE DECK. THE CONTRACTOR WILL COORDINATE WITH THE TOWN AND THEIR REPRESENTATIVES TO MAINTAIN SERVICE DURING CONSTRUCTION. A TEMPORARY LINE WILL BE INSTALLED PRIOR TO THE DEMOLITION OF THE CULVERT. A NEW LINE WILL BE INSTALLED BY THE CONTRACTOR AS SHOWN ON THESE PLANS.
- OVERHEAD ELECTRICAL LINES OWNED BY NATIONAL GRID WILL BE RELOCATED PRIOR TO CONTRACT. OVERHEAD COMMUNICATION LINES OWNED BY VERIZON WILL BE RELOCATED PRIOR TO CONTRACT. EXISTING AND RELOCATED LOCATIONS ARE SHOWN ON THESE PLANS.
- EXACT LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. PRIOR TO ANY EXCAVATION, THE CONTRACTOR IS TO CALL DIG SAFELY N.Y. TO HAVE UNDERGROUND UTILITIES LOCATED.
- IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE, CAUSING THE INTERRUPTION IN SAID SERVICE, THE CONTRACTOR SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE WORK UNTIL SERVICE IS RESTORED. ALL COSTS TO REPAIR OR REPLACE DAMAGED UTILITIES SHALL BE AT THE EXPENSE OF THE CONTRACTOR. IF THE CONTRACTOR DOES NOT MAKE IMMEDIATE NECESSARY REPAIRS, THE RESPECTIVE OWNING COMPANIES OR MUNICIPAL FORCES MAY DO THE WORK, AND THE COST THEREOF CHARGED TO THE CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND UTILITIES TO REMAIN IN PLACE FROM DAMAGE DURING THE CONSTRUCTION. METHODS OF PROTECTION MAY INCLUDE STEEL PLATES OVER THE UTILITY SO THAT WHEEL LOADING FROM CONSTRUCTION VEHICLES DO NOT DAMAGE THE UTILITY. THE COST OF PROVIDING PROTECTION OF UNDERGROUND UTILITIES SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:	ALTERED BY: ON:
	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS
	OVER FIVE MILE CREEK			
	TOWN OF TICONDEROGA			
	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.

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED		CONTRACT NUMBER D036296
GENERAL NOTES (2 OF 2)		DRAWING NO. GNN-2 SHEET NO. 6
 GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS	 TOWN OF TICONDEROGA	



**WORK ZONE TRAFFIC CONTROL GENERAL NOTES**

- THE FOLLOWING NOTES ARE INTENDED TO SUPPLEMENT AND CLARIFY THE REQUIREMENTS SET FORTH IN SECTION 619 OF THE NYS STANDARD SPECIFICATIONS AND SECTION 619 OF THE NYS STANDARD SHEETS.
- ALL WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE NYS DOT STANDARD SPECIFICATIONS, THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NYS SUPPLEMENT.
- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ALL PROVISIONS OF ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL, OR AS AMENDED ON THESE PLANS, FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR MAY SUBMIT REVISIONS TO THESE PLANS, IN WRITING, TO THE ENGINEER FOR APPROVAL, HOWEVER ANY COSTS RESULTING FROM THESE CHANGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL VEHICLES AND EQUIPMENT THAT SHALL BE MOVING IN AND OUT OF TRAFFIC AT WORK AREAS SHALL BE EQUIPPED WITH AN APPROVED AMBER ROTATING SAFETY LIGHT. THIS LIGHT SHALL BE MOUNTED SO AS TO BE EASILY SEEN BY APPROACHING TRAFFIC.
- VEHICLES BELONGING TO THE CONTRACTOR, OR THE CONTRACTOR'S EMPLOYEES, SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS, OR WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG OR ADJACENT TO OPEN TRAVEL LANES.
- THE CONTRACTOR SHALL NOT PARK EQUIPMENT, NOR STORE MATERIAL, OVERNIGHT WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD TO TRAFFIC.
- DRIVING AGAINST TRAFFIC AT ANY TIME, REGARDLESS OF WHETHER OR NOT THE AREA HAS BEEN CLOSED TO TRAFFIC, SHALL NOT BE PERMITTED, EXCEPT FOR TRAFFIC CONE PICK-UP OR AS SPECIFICALLY PERMITTED BY THE ENGINEER.
- ESCORT VEHICLES EQUIPPED WITH AN AMBER LIGHT OR AN OPERATING ARROW PANEL WILL BE REQUIRED WHEN TRANSPORTING SLOW MOVING CONSTRUCTION EQUIPMENT ALONG ANY PORTION OF THE ROADWAY OPEN TO TRAFFIC.
- WHEN REOPENING DRIVING LANES TO TRAFFIC, THE CONTRACTOR SHALL START BY MOVING THE DEVICES AT THE FAR END OF THE LANE CLOSURE AND WORKING TOWARDS THE SIGNS AT THE BEGINNING OF THE LANE CLOSURE. THE SIGNS ARE NOT TO BE TAKEN DOWN UNTIL ALL TRAFFIC CONTROL DEVICES HAVE BEEN REMOVED.
- SEE TABLE 619-3 IN THE NYS DOT STANDARD SPECIFICATIONS FOR REQUIRED TREATMENT OF PAVEMENT EDGE DROP-OFFS AND DELINEATION.
- EXCAVATIONS THAT PRODUCE DROP-OFFS ON BOTH SIDES OF THE TRAVEL WAYS AT THE SAME TIME SHALL NOT BE PERMITTED. SHOULDER AREAS SHALL BE PREPARED TO RECEIVE THE SHOULDER PAVEMENT MATERIAL IMMEDIATELY AHEAD OF SHOULDER PAVING OPERATIONS TO MINIMIZE THE TIME A DROP-OFF CONDITION EXISTS. "NO SHOULDER" (NYW4-13) SIGNS SHALL BE ERECTED A MINIMUM OF 500 FEET APART THROUGHOUT THE PROJECT WHEREVER A DROP-OFF EXISTS. LOW SHOULDER SIGNS (W8-9) MAY ALSO BE REQUIRED. IN NO CASE SHALL AN EDGE DROP-OFF EXCEED 3 INCHES.
- COSTS FOR ALL TEMPORARY SIGNS FOR WORK ZONE TRAFFIC CONTROL SHALL BE INCLUDED UNDER ITEM 619.01.
- THE MOUNTING OF ALL TEMPORARY CONSTRUCTION SIGNS SHALL BE PER FIGURE 6F-1 CONVENTIONAL ROAD IN THE MUTCD.
- THE COST OF PROVIDING AND MAINTAINING SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES, TO THE SATISFACTION OF THE ENGINEER, SHALL BE BORNE BY THE CONTRACTOR, INCLUDING PROVIDING TEMPORARY ASPHALT PAVEMENT TO MAINTAIN THIS ACCESS.
- IF THE ENGINEER NOTIFIES THE CONTRACTOR OR HIS SUPERINTENDENT OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THAT AREA SHALL BE DISCONTINUED AND IMMEDIATE REMEDIAL ACTION SHALL BE TAKEN TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.

**WORK ZONE TRAFFIC CONTROL GENERAL NOTES CONT.**


- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL SIGNS, CONES, FLASHERS, BARRIERS, ETC. ARE IN PLACE AND IN GOOD CONDITION. THE SOLE JUDGE OF THE EFFECTIVENESS OF THE CONTRACTOR'S EFFORTS TOWARDS THE PROTECTION OF TRAFFIC AND PERSONNEL SHALL BE THE ENGINEER.
- FLAGGERS SHALL BE LOCATED AT ALL ACTIVE WORK AREAS AND AT OTHER LOCATIONS WITHIN A WORK AREA WHERE RESTRICTED SIGHT DISTANCE IMPEDES THE FLOW OF TRAFFIC OR A.O.B.E.
- EXISTING TRAFFIC SIGNS SHALL BE COVERED AND UNCOVERED AS NECESSARY DURING CONSTRUCTION. COST TO BE INCLUDED UNDER ITEM 619.01.
- IF IN THE ENGINEER'S JUDGMENT, FLAGS ON SIGNS ARE NECESSARY DUE TO LIMITED SIGHT DISTANCE. THEY SHALL BE PROVIDED BY THE CONTRACTOR. COST SHALL BE INCLUDED IN ITEM 619.01.
- AT NO TIME DURING THE CONSTRUCTION OF THIS PROJECT SHALL THE CONTRACTOR ALLOW TRAFFIC TO DRIVE ON A GRAVEL SURFACE FOR MORE THEN FIVE (5) CONSECUTIVE DAYS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- THERE SHALL BE NO NIGHT WORK BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM EXCEPT AS REQUIRED FOR UTILITY SERVICE INTERRUPTIONS AND AS APPROVED BY THE ENGINEER.
- DELINEATION WITH REFLECTORIZED PLASTIC DRUMS SHALL BE USED ALONG EMBANKMENTS, AND AT OTHER LOCATIONS WHERE EXISTING GUIDE RAIL HAS BEEN REMOVED, AND SHALL REMAIN IN PLACE UNTIL SATISFACTORY PROTECTION HAS BEEN PROVIDED. SPACING OF DRUMS SHALL BE CONSISTENT WITH THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN STABLE EXCAVATION SIDE SLOPES AT ALL TIMES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL PUBLIC AND PRIVATE UTILITIES FOR MAINTENANCE OR RELOCATION WORK WITH RESPECT TO SITE ACCESS, TRAFFIC CONTROL AND SCHEDULING TO AVOID CONFLICTS FOR TIMELY COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS FOR LOCAL FIRE, POLICE AUTHORITIES AND AMBULANCE SERVICES THROUGHOUT THE PROJECT AREA AT ALL TIMES.
- RESPONSIBILITY FOR EMERGENCY REPAIRS: THE CONTRACTOR SHALL, IN WRITING, SUBMIT TO THE APPROPRIATE LAW ENFORCEMENT AND GOVERNMENT AGENCIES THE NAME, ADDRESS AND TELEPHONE NUMBER(S) OF THE PERSON OR PERSONS AUTHORIZED TO SECURE LABOR, MATERIALS AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE OF NORMAL WORKING HOURS. DUPLICATE COPIES OF THE ABOVE SHALL BE FILED WITH THE ENGINEER.
- WHERE DRUMS, CONES, VERTICAL PANELS OR TUBULAR MARKERS ARE USED IN CONTROLLING THE MOVEMENT OF TRAFFIC, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO PREVENT ALL TRAFFIC CONTROL DEVICES FROM BEING BLOWN OVER OR DISPLACED BY PASSING VEHICLES. THE CONTRACTOR SHALL ACCOMPLISH THIS BY DOUBLING CONES, THE USE OF SAND BAGS, RINGS OR BY OTHER MEANS, AS APPROVED BY THE ENGINEER, WHICH SHALL NOT PRESENT A HAZARD TO MOTORISTS OR WORKERS IF THE CONES, DRUMS, VERTICAL PANELS OR TUBULAR MARKERS ARE STRUCK.
- THE CONTRACTOR SHALL BACKFILL ALL OPEN EXCAVATIONS OR PROVIDE ANCHORED STEEL PLATES TO COVER ALL TRENCH EXCAVATIONS DURING NON-WORKING HOURS. ANCHORED STEEL PLATES SHALL ALSO BE PLACED ON SUBGRADE, SUBBASE COURSES OR BASE COURSES TO PROTECT SHALLOW UTILITY FACILITIES FROM WHEEL LOADINGS DUE TO CONSTRUCTION VEHICLES AND EQUIPMENT. STEEL PLATES SHALL BE RAMPED WITH ASPHALT IN THE ROADWAY AREA TO PROVIDE A SMOOTH TRANSITION. THE COST FOR ANCHORED PLATES AND PAVEMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01.
- TRAVEL LANE WIDTH SHALL BE 8'-0" MINIMUM AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE BARRICADE SHALL NOT BE PLACED ALONG THE MERGING TAPER. THE LANE SHALL BE CLOSED USING CHANNELIZING DEVICES AND PAVEMENT MARKINGS.
- ANY EXISTING PAVEMENT MARKINGS THAT ARE CONFLICTING OR MISLEADING SHALL BE REMOVED OR COVERED.
- ADJUSTMENTS IN THE LOCATION OF ADVANCED WARNING SIGNS SHALL BE MADE TO ACCOMODATE THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE ROADWAY, RECOGNIZING THAT THE DISTANCES SHOWN FOR SIGN SPACING ARE MINIMUMS. ADJUSTMENTS IN THE HEIGHT OF THE SIGNAL HEADS SHALL BE MADE AS NEEDED TO CONFORM TO THE VERTICAL ALIGNMENT.



**SINGLE LANE OPERATIONS**

- STAGED CONSTRUCTION METHODS WILL BE UTILIZED TO MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES.
- THE CONTRACTOR SHALL NOTIFY THE TOWN OF TICONDEROGA AND ESSEX COUNTY IN WRITING A MINIMUM OF 14 CALENDAR DAYS IN ADVANCE AS TO WHEN HE WISHES TO UTILIZE THE TEMPORARY TRAFFIC SIGNALS AND REDUCE THE ROADWAY TO ONE LANE OPERATIONS. ONE LANE OPERATIONS MUST ONLY BE UTILIZED FOR THE TIME FRAMES AS OUTLINED IN THE SPECIAL NOTES "CULVERT OPENING" AND CONFORM TO ALL SPECIAL PROVISIONS AS OUTLINED IN THE PROJECT MANUAL. THE COST OF ALL SIGNAGE AND MAINTENANCE OF THE ONE LANE OPERATIONS SHALL BE INCLUDED UNDER ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL.







**BRIDGE OPENING**

- VETERAN'S ROAD AND BRIDGE APPROACHES MUST BE COMPLETED IN ACCORDANCE WITH THE PROJECT MANUAL. IN THE EVENT WORK IS NOT COMPLETED TO A POINT WHERE VETERAN'S ROAD IS NOT OPENED TO TRAFFIC, LIQUIDATED DAMAGES SHALL BE ACCESSED TO THE CONTRACTOR PER TABLE 108-1 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO OPENING, THE NEW BRIDGE AND APPROACHES MUST BE COMPLETED TO THE EXTENT THAT PUBLIC TRAFFIC CAN BE SAFELY ACCOMMODATED. THIS INCLUDES ALL STRUCTURAL ELEMENTS, PAVEMENT UP TO TOP COURSE, PAVEMENT MARKINGS AND TRAFFIC SIGNS.
- THE CONTRACTOR AGREES IN UNDERTAKING THIS PROJECT THAT ALL CONSIDERATIONS HAVE BEEN TAKEN AND ALLOWANCES MADE FOR ALL ORDINARY DELAYS AND HINDRANCES TO SUCH WORK, SUCH AS WEATHER, SECURING MATERIALS AND LABOR, AND CONDITIONS OR RESTRICTIONS AT THE PROJECT SITE.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:	ALTERED BY: ON:
	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296	
	OVER FIVE MILE CREEK						
	TOWN OF TICONDEROGA						
	COUNTY: ESSEX	REGION: 1			WORK ZONE TRAFFIC CONTROL GENERAL NOTES	DRAWING NO. WZT-1 SHEET NO. 7	
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.							




**DETOUR CONSTRUCTION SIGNS**

TEXT NUMBER	LOCATION NUMBER	TEXT	NATIONAL OR STATE M.U.T.C.D. NUMBER
1	1, 5		W20-1
2	2, 6		W20-4
			W8-3
3 (SEE NOTE 2)	3, 7		R1-2
			R1-2dP
4	4, 8		G20-2

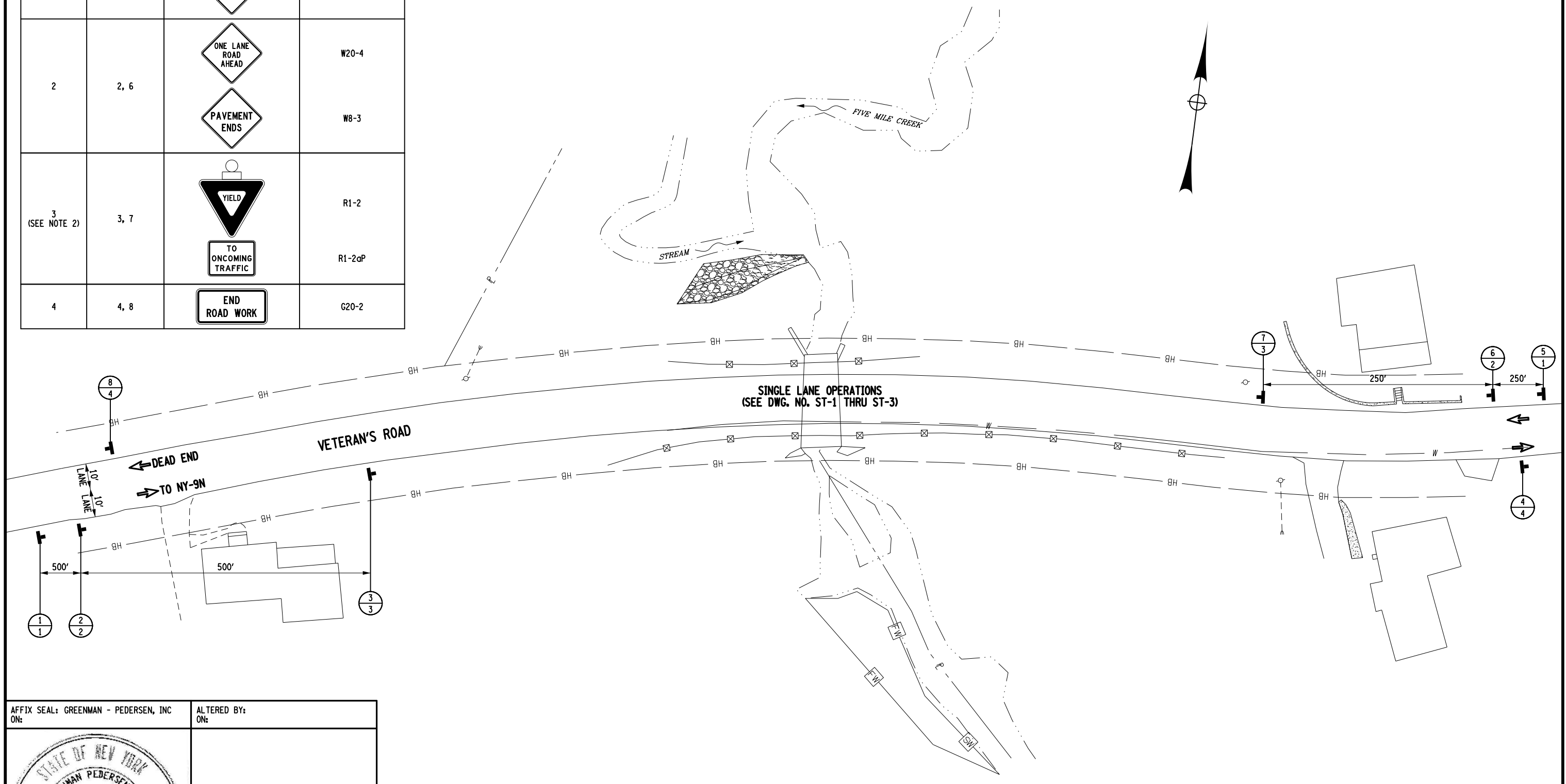
**NOTES:**

1. ALL DETOUR SIGNS PAID FOR UNDER ITEM 619.01.
2. SIGNS 3 AND 7 ARE TO INCLUDE A FLASHING BEACON FOR VISIBILITY, PAID UNDER ITEM 619.01.

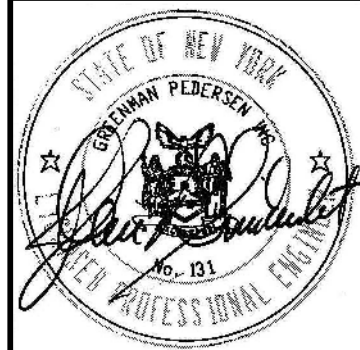
**LEGEND**

- CONSTRUCTION SIGNS (ITEM 619.01) 
- LOCATION \* 
- TEXT \* 

PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CIUCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET



AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_  
 ALTERED BY:  
 ON: \_\_\_\_\_



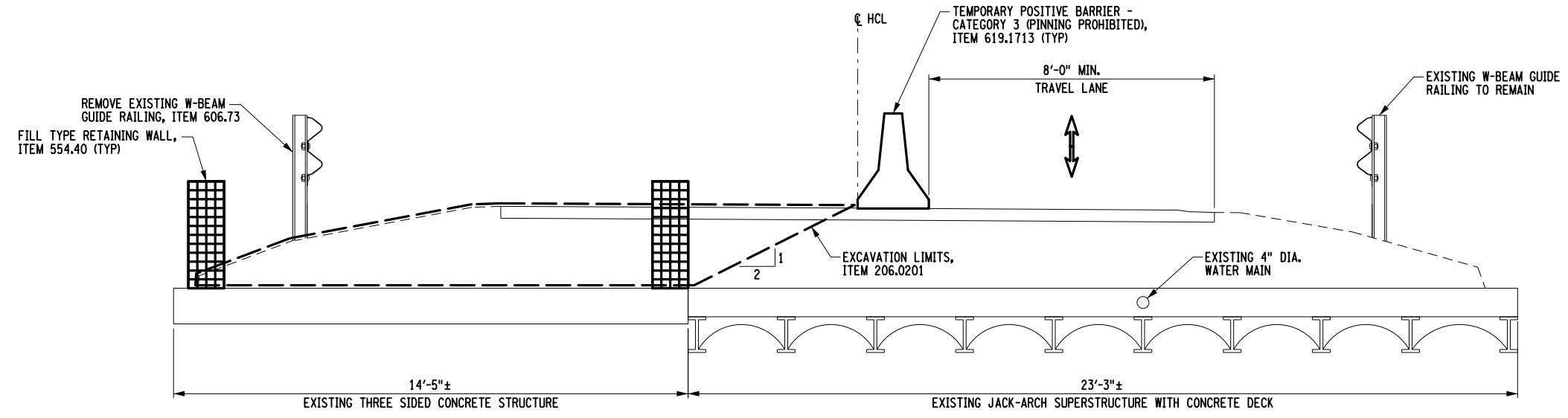
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	OVER FIVE MILE CREEK					WORK ZONE TRAFFIC CONTROL PLAN
	TOWN OF TICONDEROGA	REGION: 1				
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR 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.						
GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS					TOWN OF TICONDEROGA	

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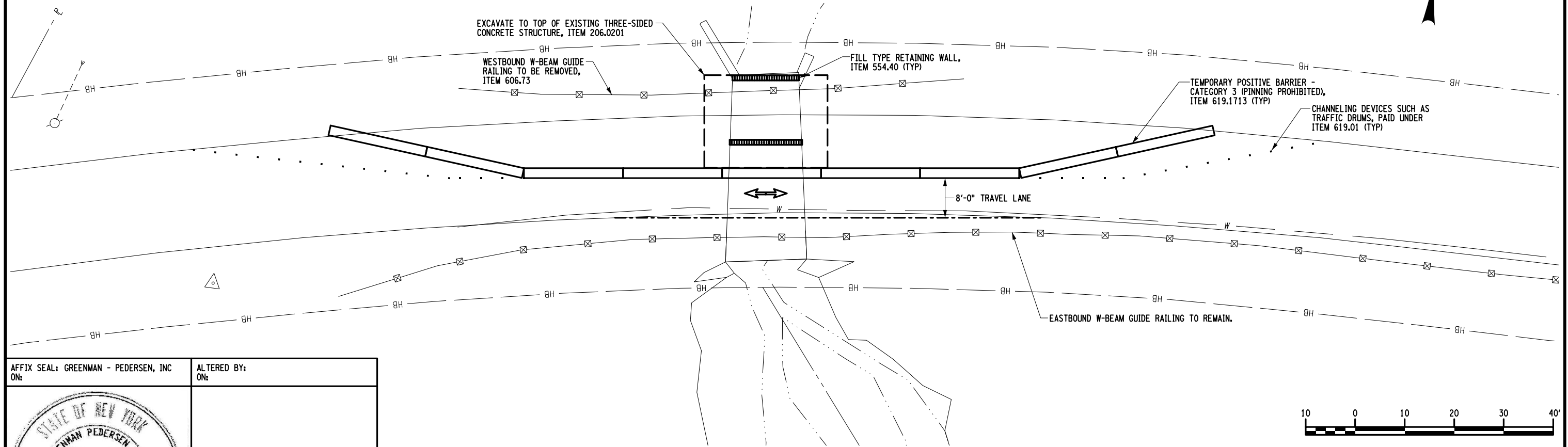


PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CIUCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET

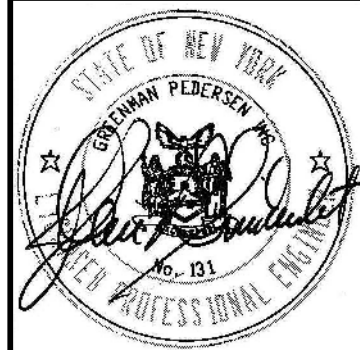
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 USER = skern



**CONSTRUCTION STAGE 1A TYPICAL SECTION**  
 SCALE: 1/4"=1'-0"



AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_  
 ALTERED BY:  
 ON: \_\_\_\_\_

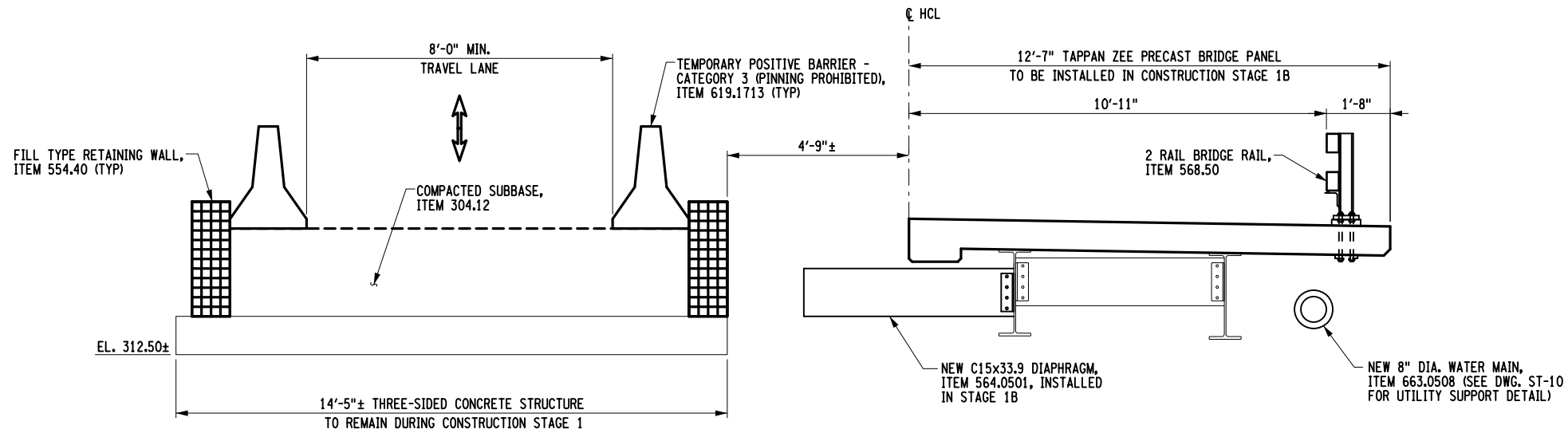


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296	
	OVER FIVE MILE CREEK					CONSTRUCTION STAGE 1A PLAN AND TYPICAL SECTION	DRAWING NO. ST-1 SHEET NO. 9
	TOWN OF TICONDEROGA						
	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.						GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS	TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CIUCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET

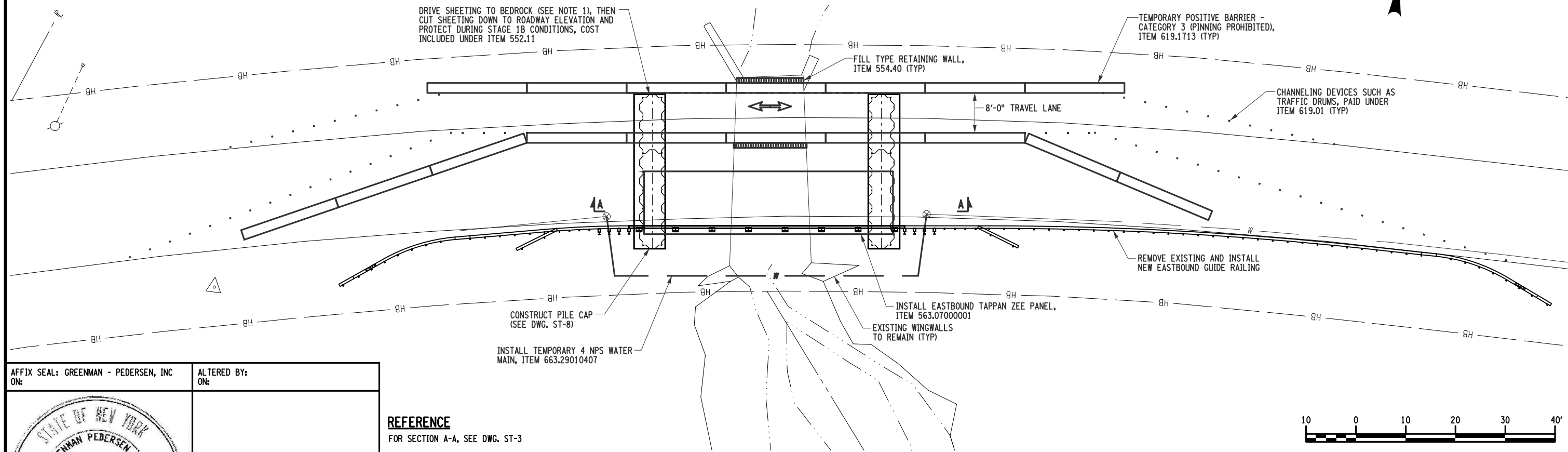
**NOTES:**

- CONTRACTOR SHALL UTILIZE FLAGGERS TO CONTROL TRAFFIC WHILE PREPARING THE SITE. ALL COSTS ASSOCIATED WITH FLAGGING OPERATIONS ARE TO BE INCLUDED IN THE PICE BID FOR ITEM 619.01.



**CONSTRUCTION STAGE 1B TYPICAL SECTION**

SCALE: 1/4"=1'-0"



AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_

ALTERED BY:  
 ON: \_\_\_\_\_

**REFERENCE**  
 FOR SECTION A-A, SEE DWG. ST-3

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK					CONSTRUCTION STAGE 1B PLAN AND TYPICAL SECTION
	TOWN OF TICONDEROGA	REGION: 1				
	COUNTY: ESSEX					

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

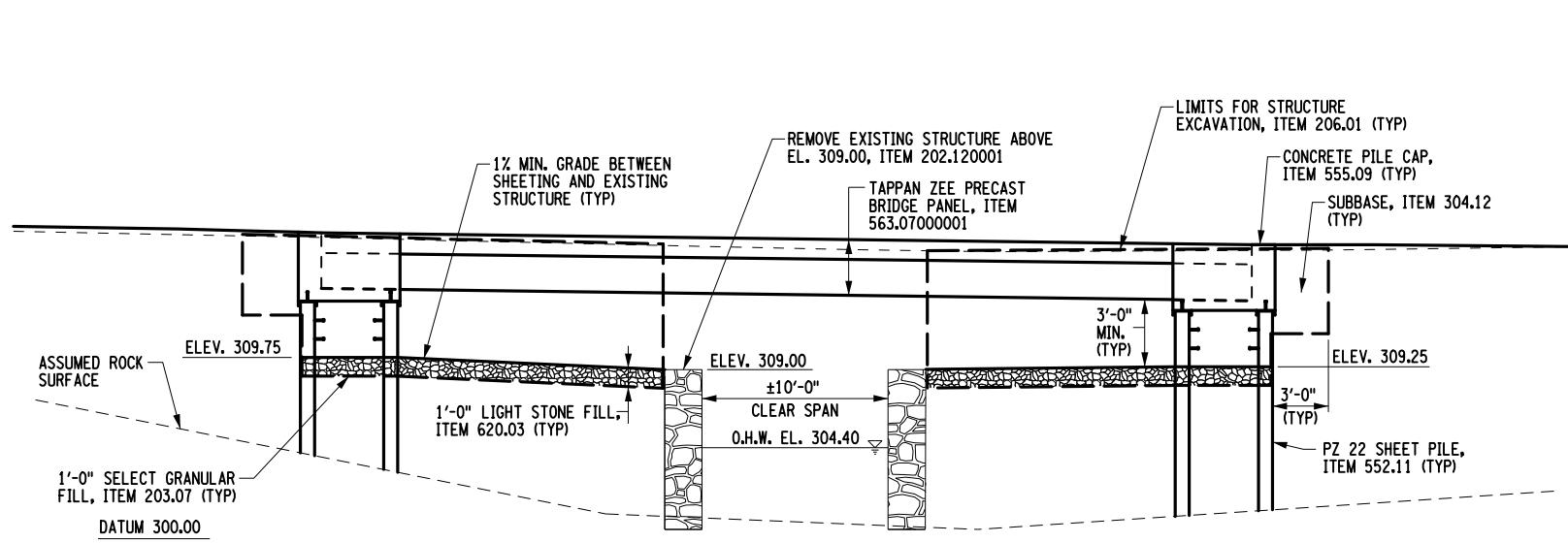
**GPI** GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

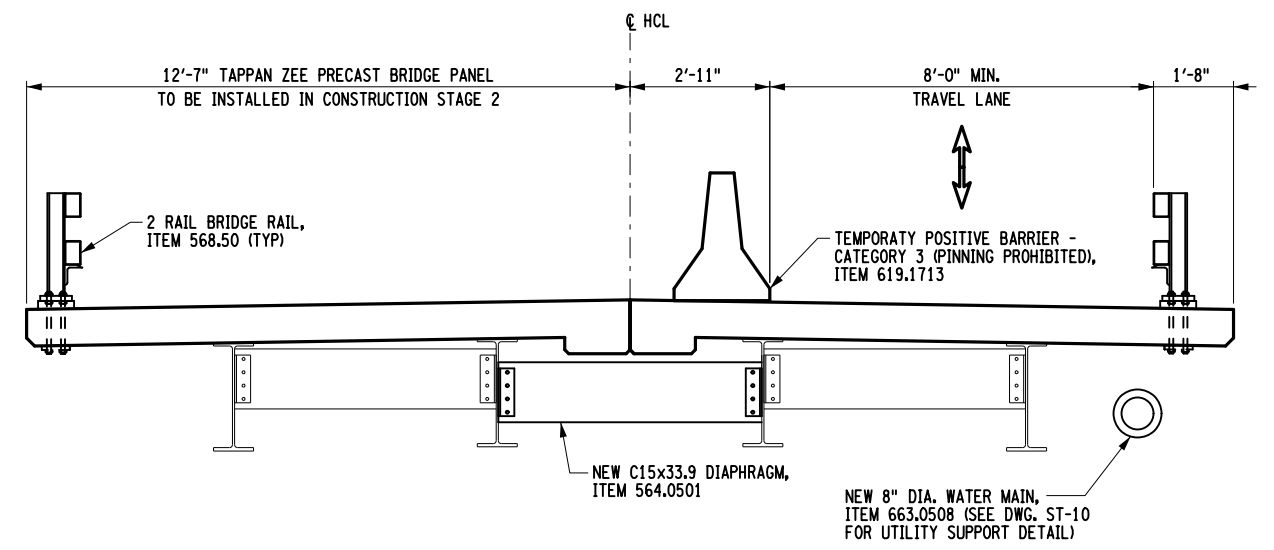
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 USER = skern

PROJECT MANAGER: S. KERN  
 CHECK: S. KERN  
 DRAFTING: F. CIUCCIO  
 CHECK: B. WEAVER  
 DESIGN: S. KERN  
 JOB MANAGER: D. THOMAS  
 DESIGN SUPERVISOR: J. SIMKULET

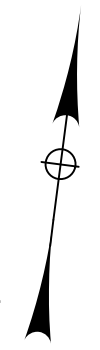
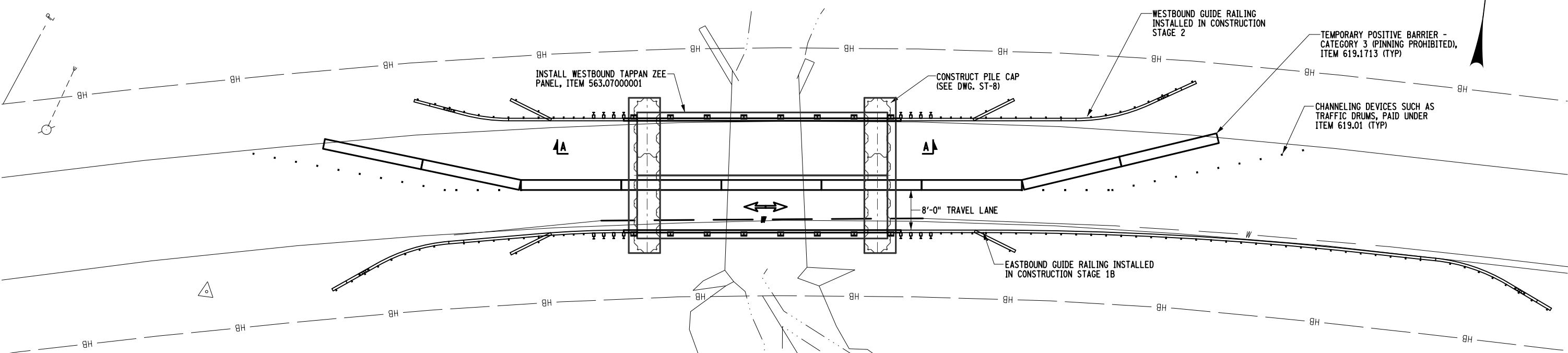
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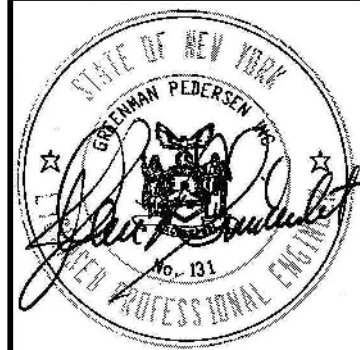
**SECTION A-A**  
 SCALE: 1"=10'



**CONSTRUCTION STAGE 2 TYPICAL SECTION**  
 SCALE: 1/4"=1'-0"



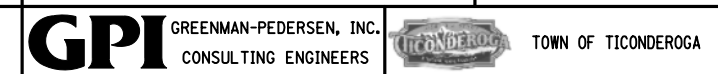
AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_  
 ALTERED BY:  
 ON: \_\_\_\_\_



**NOTES:**  
 1. ROCK ELEVATION IS BASED ON GROUND PENETRATING RADAR (GPR) DATA. GPR DATA IS AN APPROXIMATION AND NOT EXACT.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	TOWN OF TICONDEROGA				CONSTRUCTION STAGE 2 PLAN AND TYPICAL SECTION	DRAWING NO. ST-3 SHEET NO. 11
	COUNTY: ESSEX	REGION: 1				

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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 DATE/TIME = 4/11/2022  
 USER = skern

DESIGN SUPERVISOR J. SIMKULET

JOB MANAGER D. THOMAS

DESIGN S. KERN

CHECK B. WEAVER

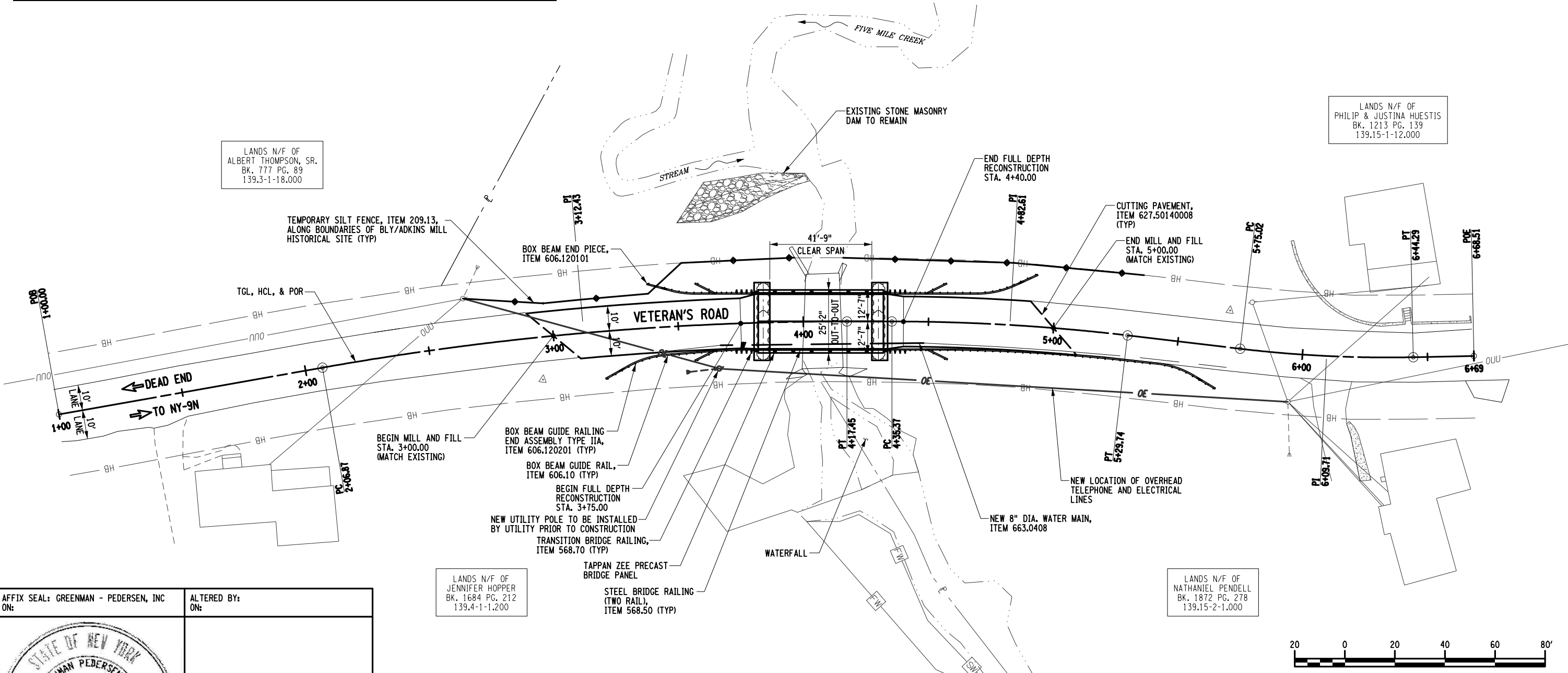
DRAFTING F. CIUCCIO

CHECK S. KERN

PROJECT MANAGER S. KERN

HORIZONTAL CONTROL AND CURVE TABLE								
H.C.L. POINT	H.C.L. STATION	NORTHING	EASTING	RADIUS	DELTA	AZIMUTH	LENGTH	TANGENT
<b>VETERAN'S ROAD</b>								
POB	1+00.00	1840366.6896	768028.6757					
PC	2+06.87	1840398.6829	768130.6393			72°34'46.53"	106.87'	
PC	2+06.87	1840398.6829	768130.6393	1200.00'	10°03'17.13"	RIGHT	210.59'	105.56'
PI	3+12.43	1840430.2868	768231.3617					
PT	4+17.45	1840443.8203	768336.0548					
PT	4+17.45	1840443.8203	768336.0548					
PC	4+35.37	1840446.1179	768353.8288			82°38'03.66"	17.92'	
PC	4+35.37	1840446.1179	768353.8288	800.00'	6°45'30.86"	RIGHT	94.37'	47.24'
PI	4+82.61	1840452.1739	768400.6775					
PT	5+29.74	1840452.6744	768447.9134					

HORIZONTAL CONTROL AND CURVE TABLE								
H.C.L. POINT	H.C.L. STATION	NORTHING	EASTING	RADIUS	DELTA	AZIMUTH	LENGTH	TANGENT
<b>VETERAN'S ROAD CONTINUED</b>								
PT	5+29.74	1840452.6744	768447.9134			89°23'34.52"	45.28'	
PC	5+75.02	1840453.1542	768493.1889					
PC	5+75.02	1840453.1542	768493.1889	500.00'	7°56'16.60"	LEFT	69.27'	34.69'
PI	6+09.71	1840453.5217	768527.8783					
PT	6+44.29	1840458.6764	768562.1845					
PT	6+44.29	1840458.6764	768562.1845					
PC	6+44.29	1840458.6764	768562.1845			81°27'17.92"	24.22'	
POE	6+68.51	1840462.2755	768586.1380					



LANDS N/F OF ALBERT THOMPSON, SR. BK. 777 PG. 89 139.3-1-18.000

LANDS N/F OF PHILIP & JUSTINA HUESTIS BK. 1213 PG. 139 139.15-1-12.000

LANDS N/F OF JENNIFER HOPPER BK. 1684 PG. 212 139.4-1-1.200

LANDS N/F OF NATHANIEL PENDELL BK. 1872 PG. 278 139.15-2-1.000

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: ALTERED BY: ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK				GENERAL PLAN	DRAWING NO. ST-4
	TOWN OF TICONDEROGA					SHEET NO. 12
	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.

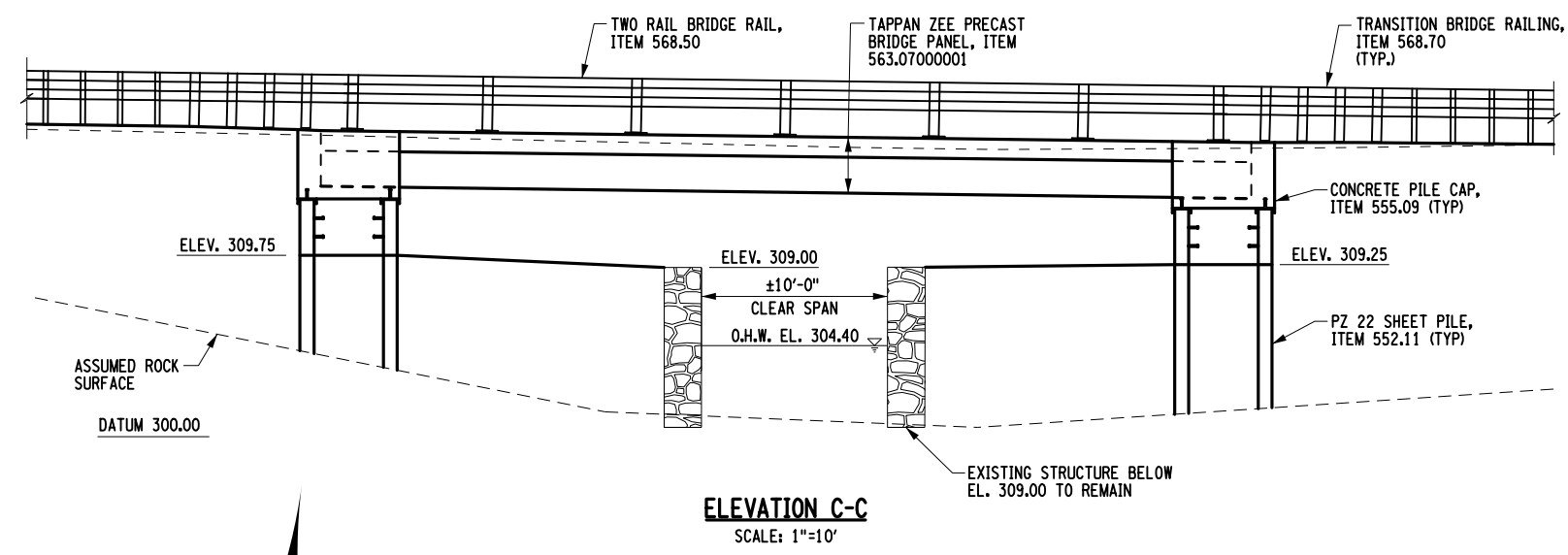
**GPI** GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

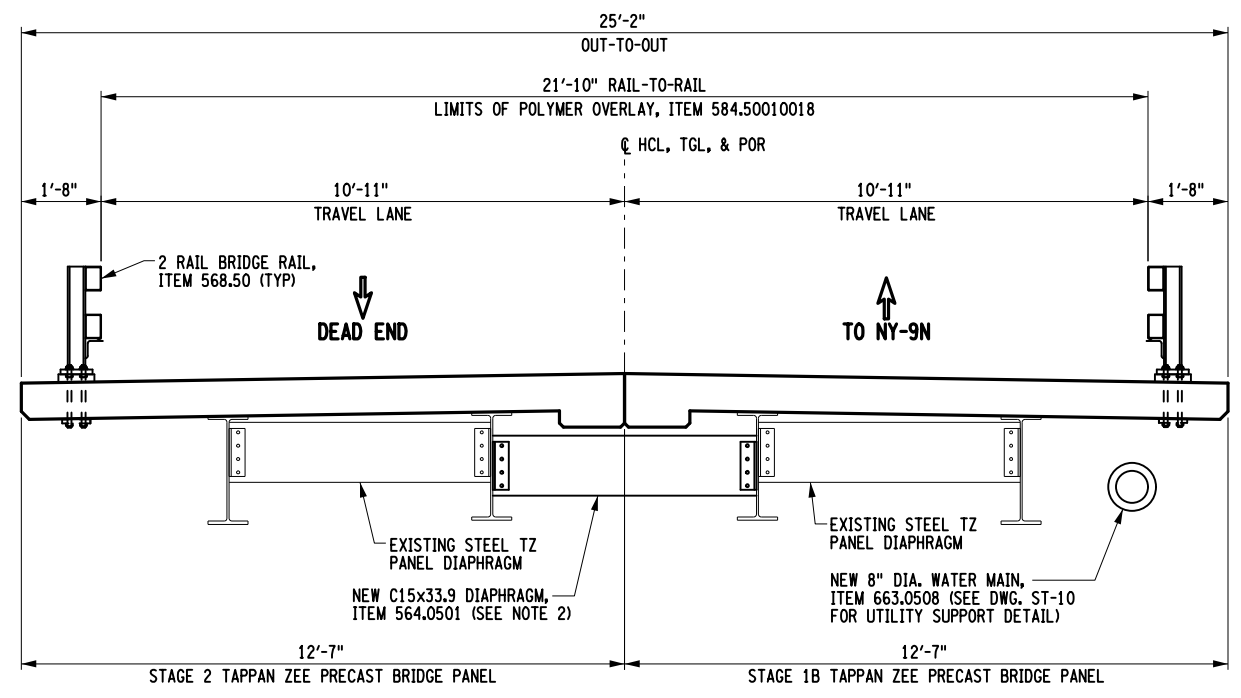


PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CIUCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET

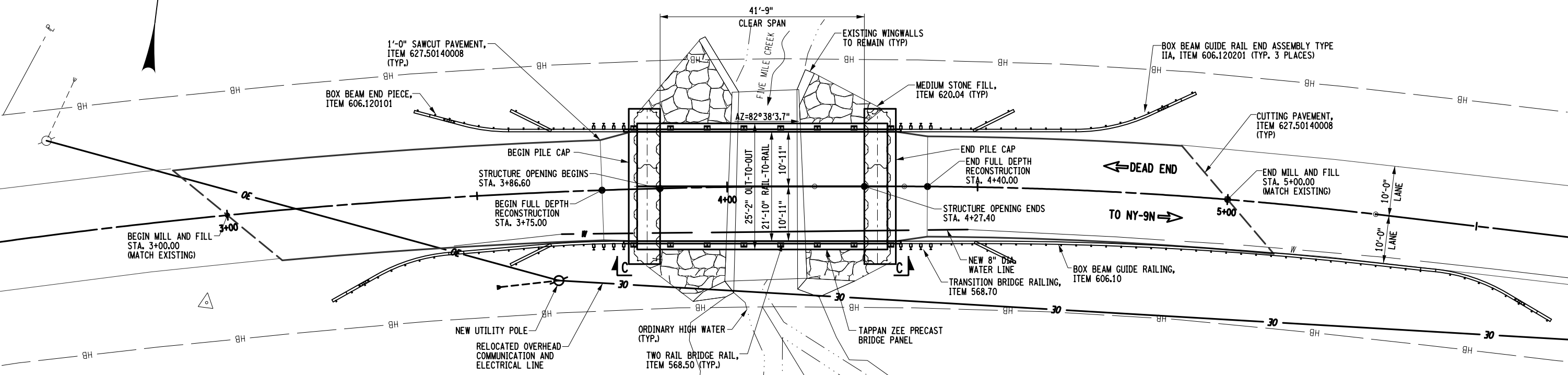
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 USER = skern



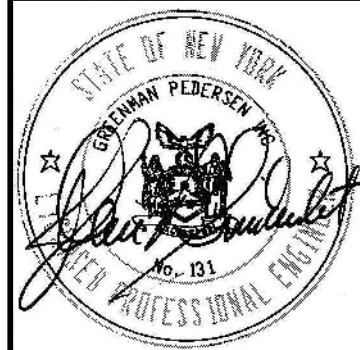
**ELEVATION C-C**  
 SCALE: 1"=10'



**PROPOSED TYPICAL SECTION**  
 SCALE: 1/4"=1'-0"



AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_  
 ALTERED BY:  
 ON: \_\_\_\_\_



**NOTES:**

- ROCK ELEVATION IS BASED ON GROUND PENETRATING RADAR (GPR) DATA. GPR DATA IS AN APPROXIMATION AND NOT EXACT.
- ALL NEW C15x33.9 DIAPHRAGMS TO BE HOT-DIP GALVANIZED, ITEM 564.20010008.

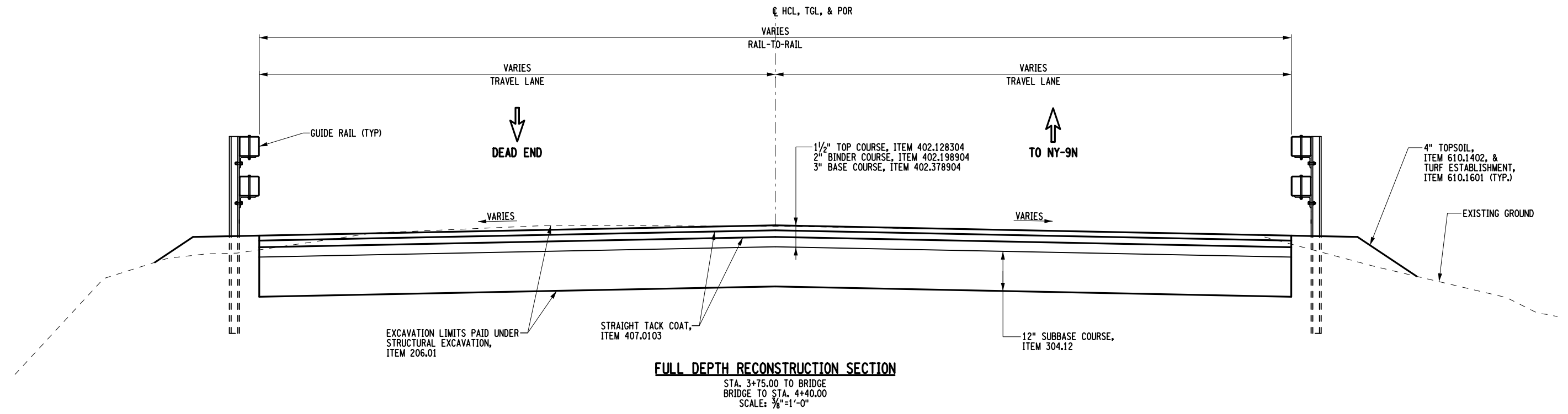
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	TOWN OF TICONDEROGA				BRIDGE PLAN AND TYPICAL SECTION	DRAWING NO. ST-5 SHEET NO. 13
	COUNTY: ESSEX	REGION: 1				

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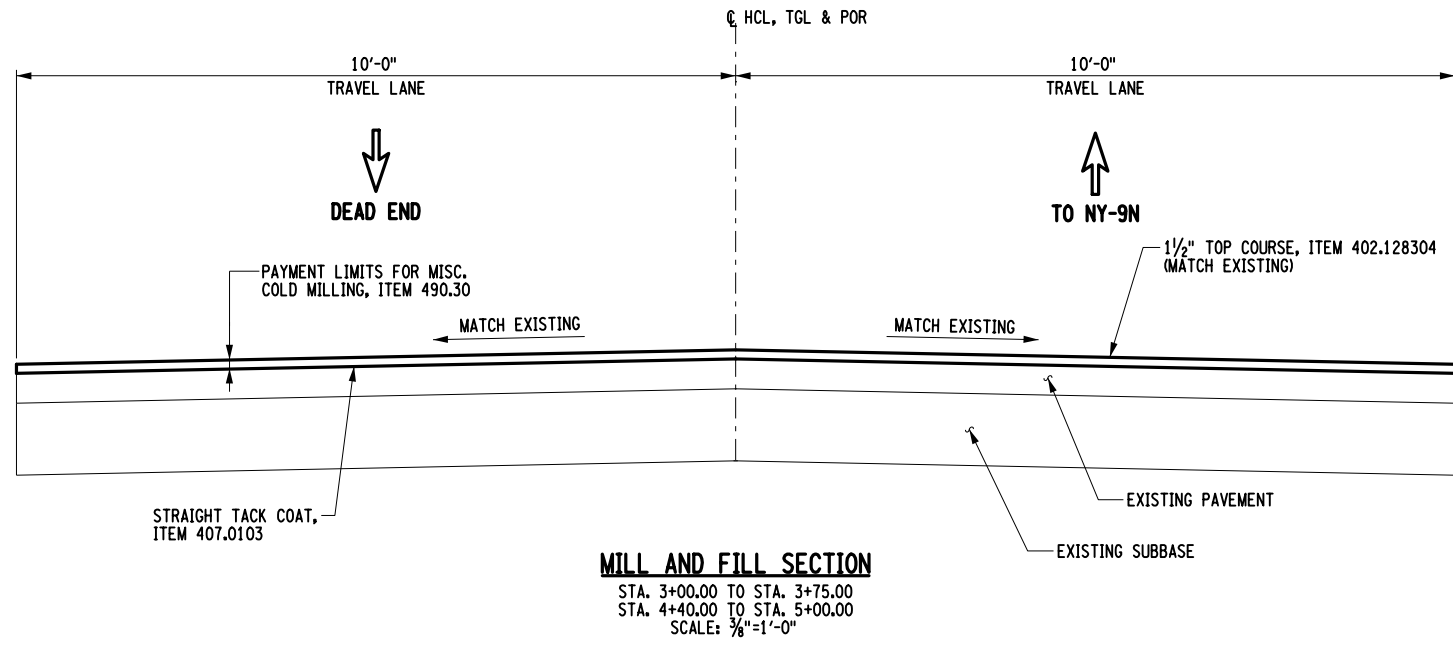
**GPI** GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

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 DATE/TIME = 4/1/2022  
 USER = skern

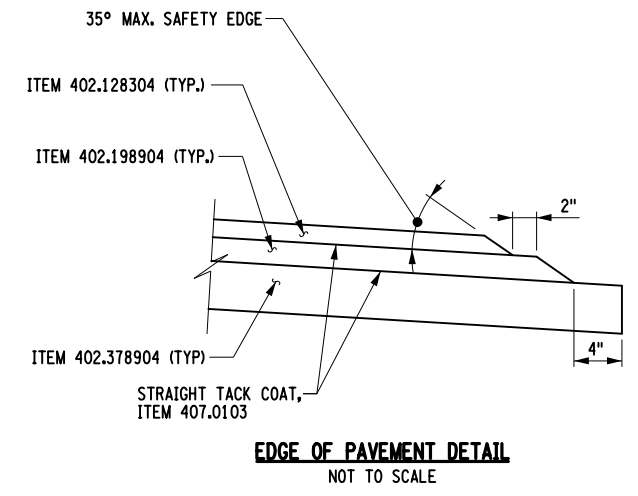
PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CIUCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET



**FULL DEPTH RECONSTRUCTION SECTION**  
 STA. 3+75.00 TO BRIDGE  
 BRIDGE TO STA. 4+40.00  
 SCALE: 3/8"=1'-0"



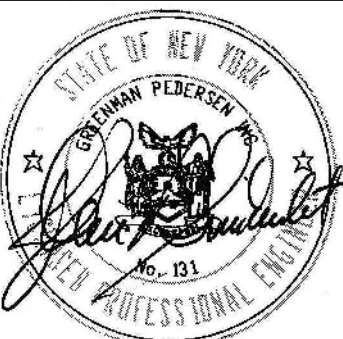
**MILL AND FILL SECTION**  
 STA. 3+00.00 TO STA. 3+75.00  
 STA. 4+40.00 TO STA. 5+00.00  
 SCALE: 3/8"=1'-0"



**EDGE OF PAVEMENT DETAIL**  
 NOT TO SCALE

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_

ALTERED BY:  
 ON: \_\_\_\_\_



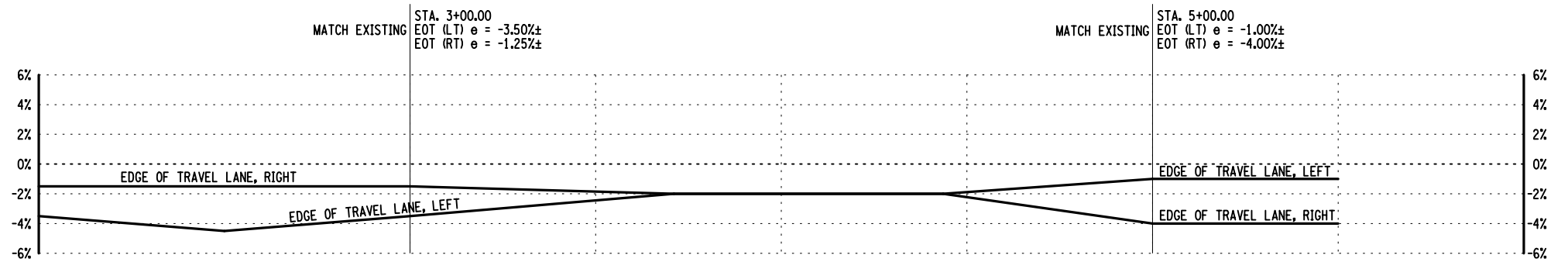
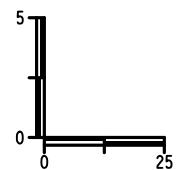
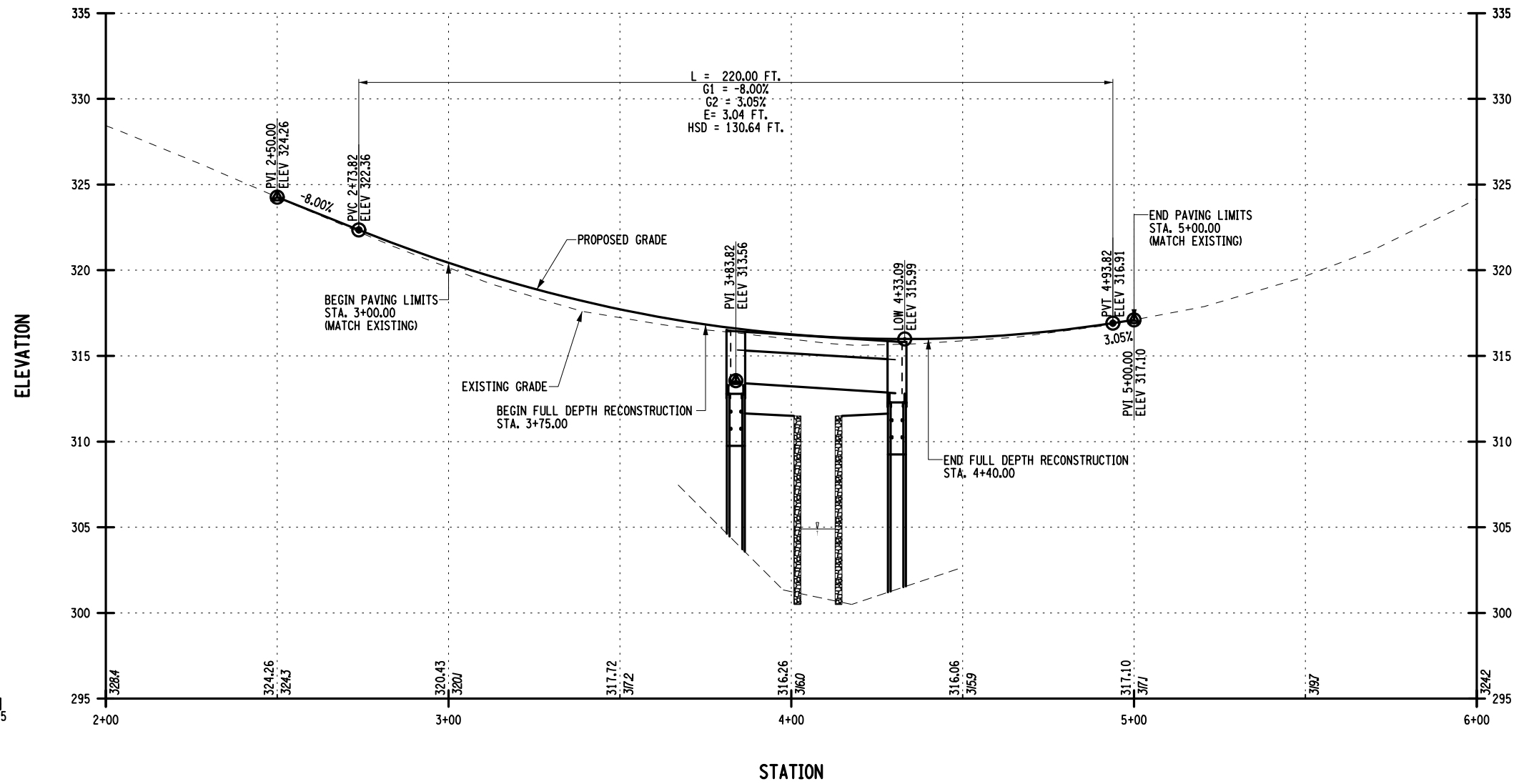
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	OVER FIVE MILE CREEK					DRAWING NO. ST-6 SHEET NO. 14
	TOWN OF TICONDEROGA				TYPICAL ROADWAY SECTIONS	
	COUNTY: ESSEX	REGION: 1			<b>GPI</b> GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS	TOWN OF TICONDEROGA

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: S. KERN  
 CHECK: S. KERN  
 DRAFTING: F. CIUCCIO  
 CHECK: B. WEAVER  
 DESIGN: S. KERN  
 JOB MANAGER: D. THOMAS  
 DESIGN SUPERVISOR: J. SIMKULET

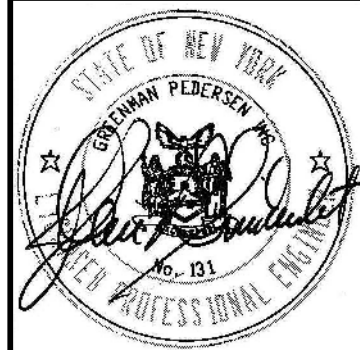
### VETERAN'S ROAD



#### PROPOSED SUPERELEVATION

NOTE: PROPOSED SUPERELEVATION IS MEANT TO BEST TIE INTO THE EXISTING ROADWAY CONDITIONS

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_  
 ALTERED BY:  
 ON: \_\_\_\_\_

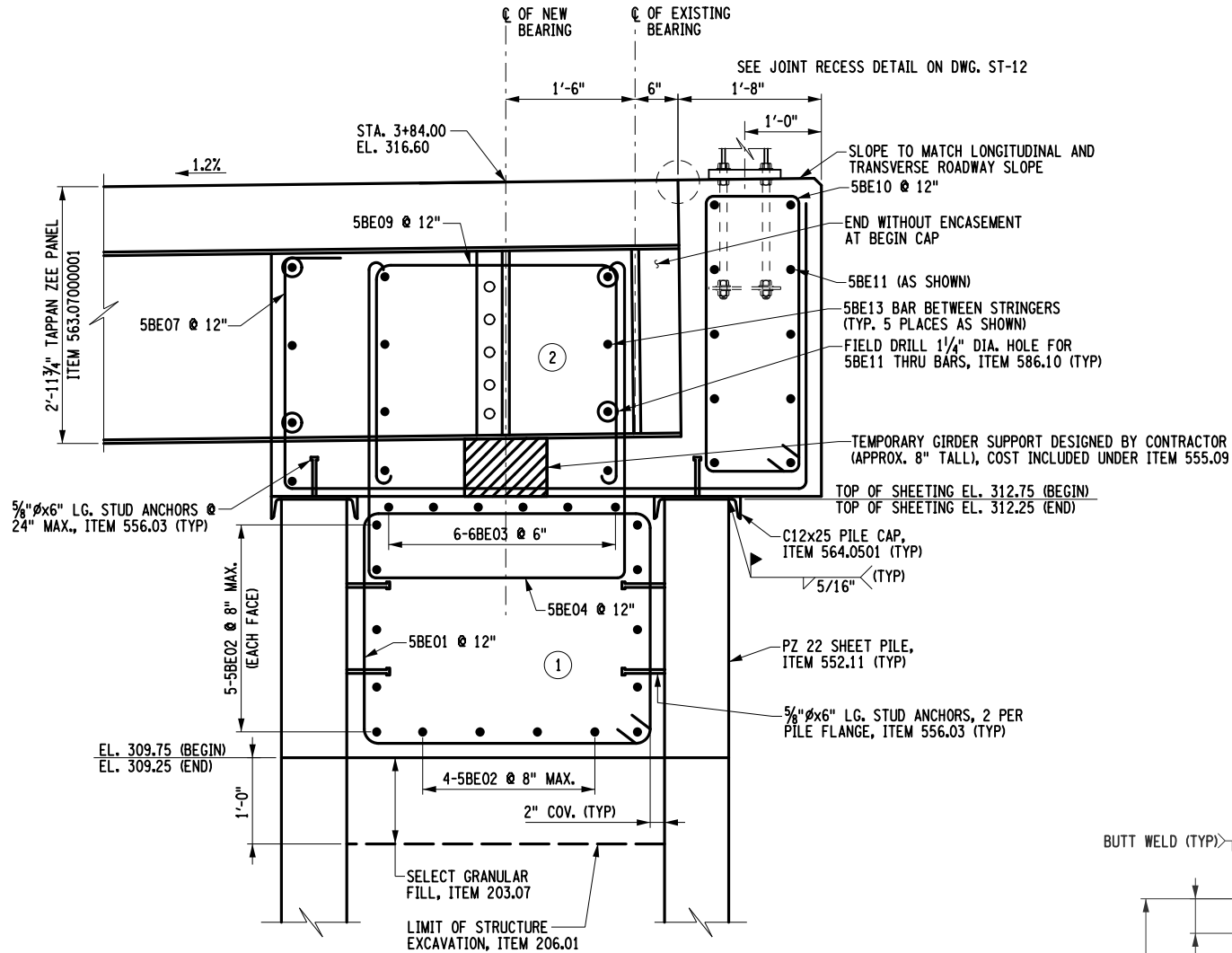


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296	
	TOWN OF TICONDEROGA				PROFILE	DRAWING NO. ST-7	
	COUNTY: ESSEX	REGION: 1				SHEET NO. 15	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.							

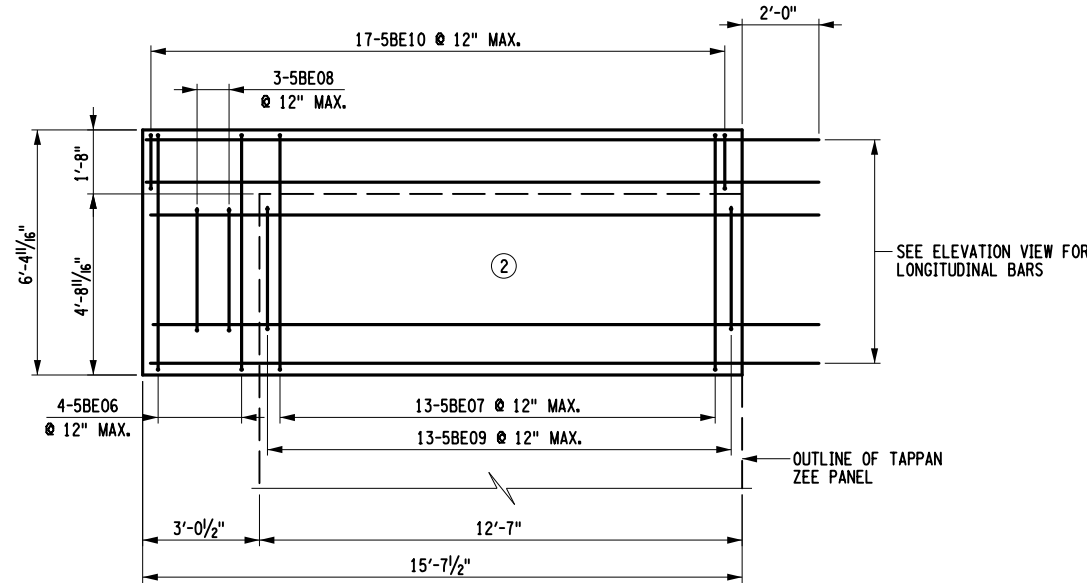
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 DATE/TIME = 4/1/2022  
 USER = skern

PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CUOCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET

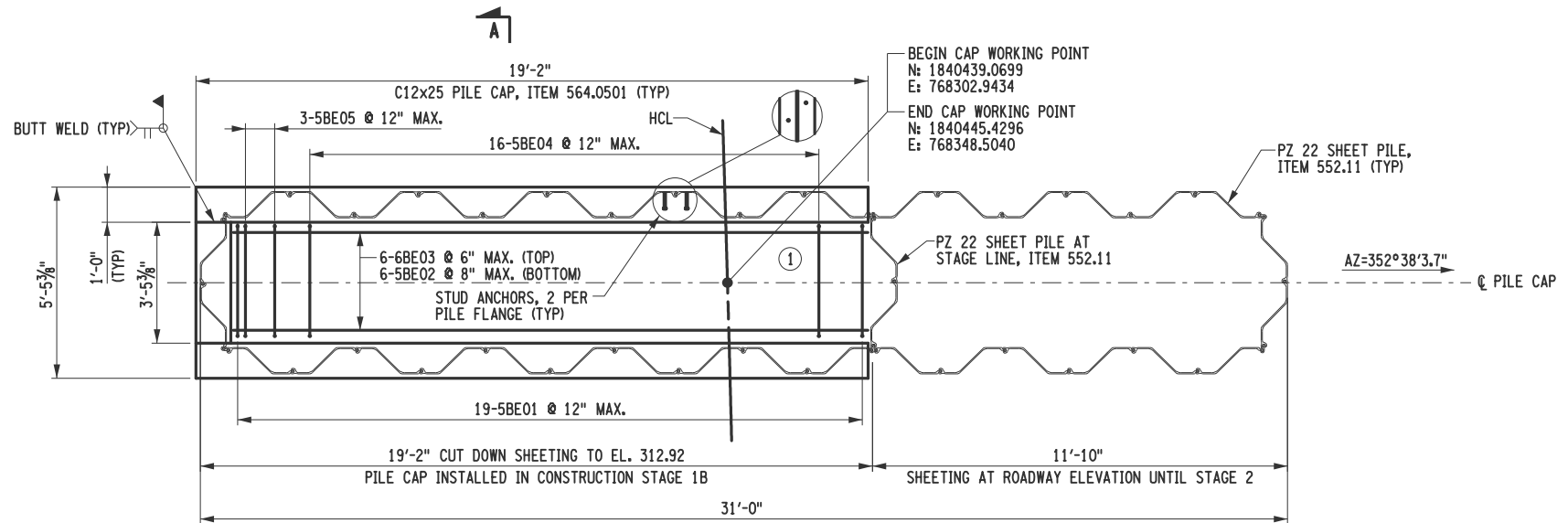
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 DATE/TIME = 4/11/2022  
 USER = skern



**BEGIN PILE CAP SECTION A-A**  
 SCALE: 1/2"=1'-0"



**BEGIN PILE CAP UPPER POUR REINFORCEMENT PLAN**  
**(CONSTRUCTION STAGE 1B)**  
 SCALE: 1"=5'-0"



**BEGIN PILE CAP LOWER POUR REINFORCEMENT PLAN**  
**(CONSTRUCTION STAGE 1B)**  
 SCALE: 1"=5'-0"

- NOTES:**
1. SHEET PILES ARE TO BE DRIVEN TO ROCK.
  2. ALL STEEL SHEET PILES ARE TO BE PAID UNDER ITEM 552.11. ALL COSTS ASSOCIATED WITH DRIVING SHEET PILES ARE TO BE PAID UNDER ITEM 552.11.
  3. BEGIN PILE CAP SHOWN. END PILE CAP SIMILAR.

SHEET PILE TABLE			
LOCATION	CUT-OFF ELEVATION	ESTIMATED LENGTH (FT)	INSTALLED LENGTH (FT)*
BEGIN ABUTMENT	312.75	9	
END ABUTMENT	312.25	11	

\* LENGTH BELOW CUT-OFF ELEVATION  
 (TABLE TO BE FILLED OUT BY E.I.C.)

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON:

ALTERED BY:  
 ON:

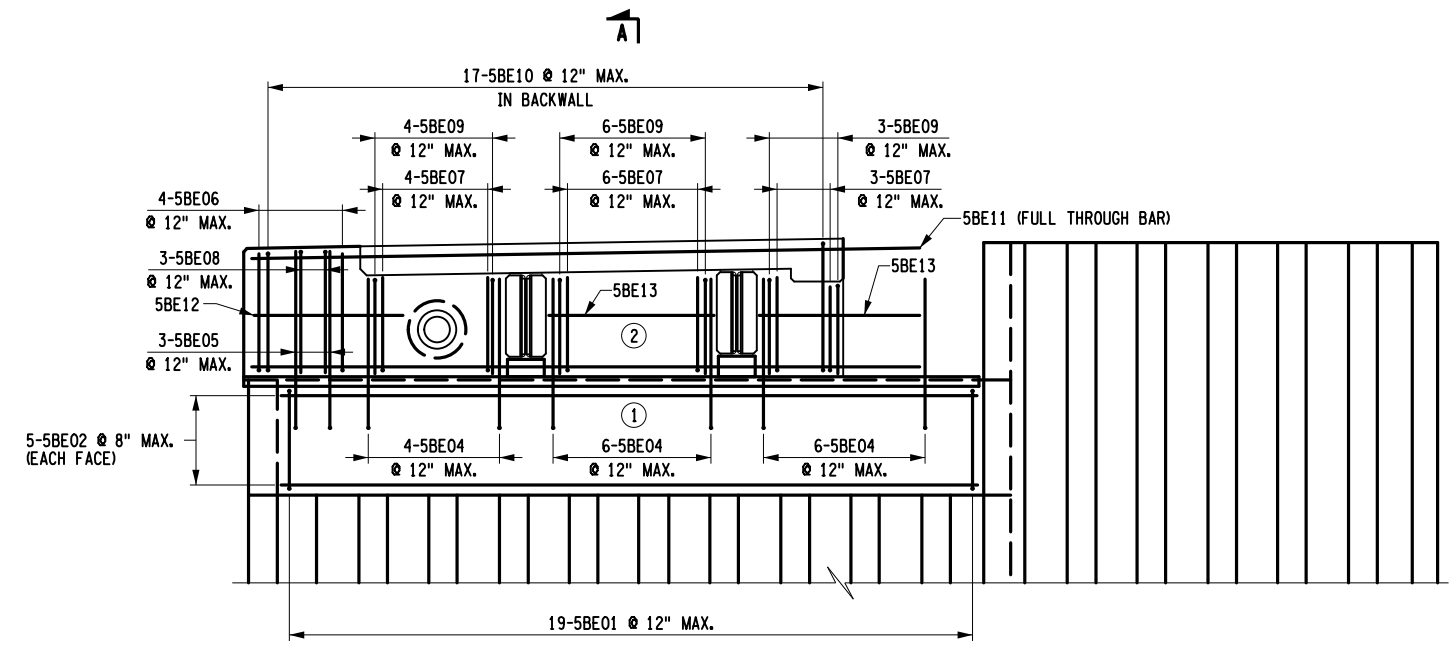
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	TOWN OF TICONDEROGA				PILE CAP REINFORCEMENT DETAILS (1 OF 2)	DRAWING NO. ST-8 SHEET NO. 16
	COUNTY: ESSEX	REGION: 1				

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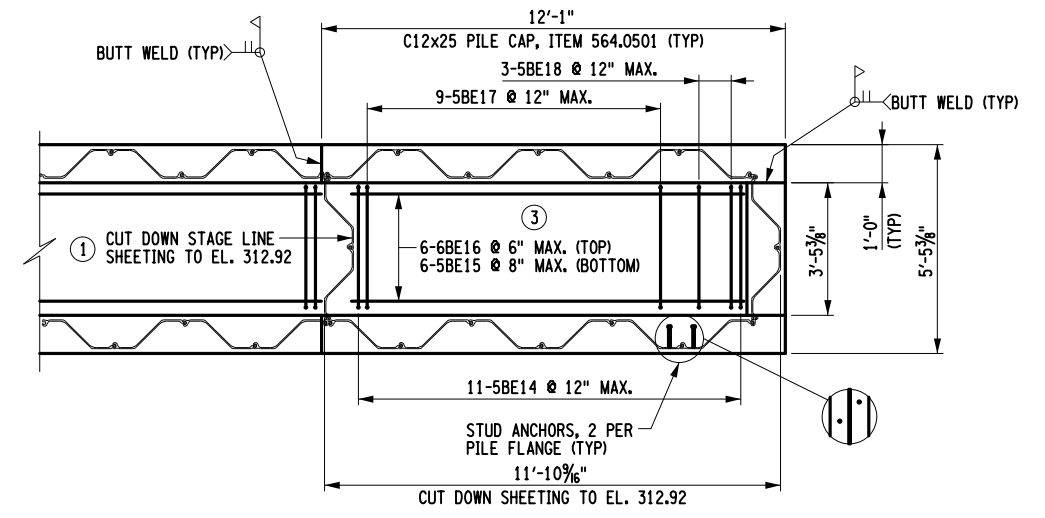
**GPI** GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS TOWN OF TICONDEROGA

PROJECT MANAGER: S. KERN  
 CHECK: S. KERN  
 DRAFTING: F. CUOCCIO  
 CHECK: B. WEAVER  
 DESIGN: S. KERN  
 JOB MANAGER: D. THOMAS  
 DESIGN SUPERVISOR: J. SIMKULET

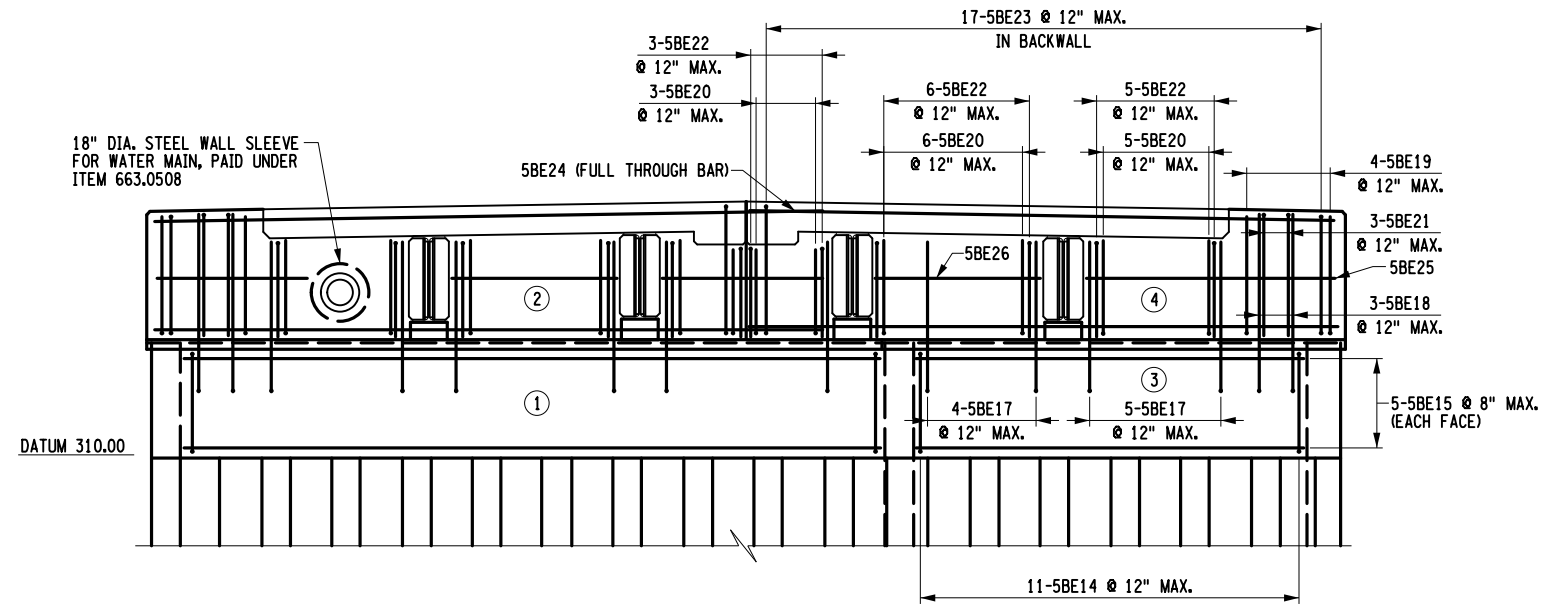
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 USER: skern



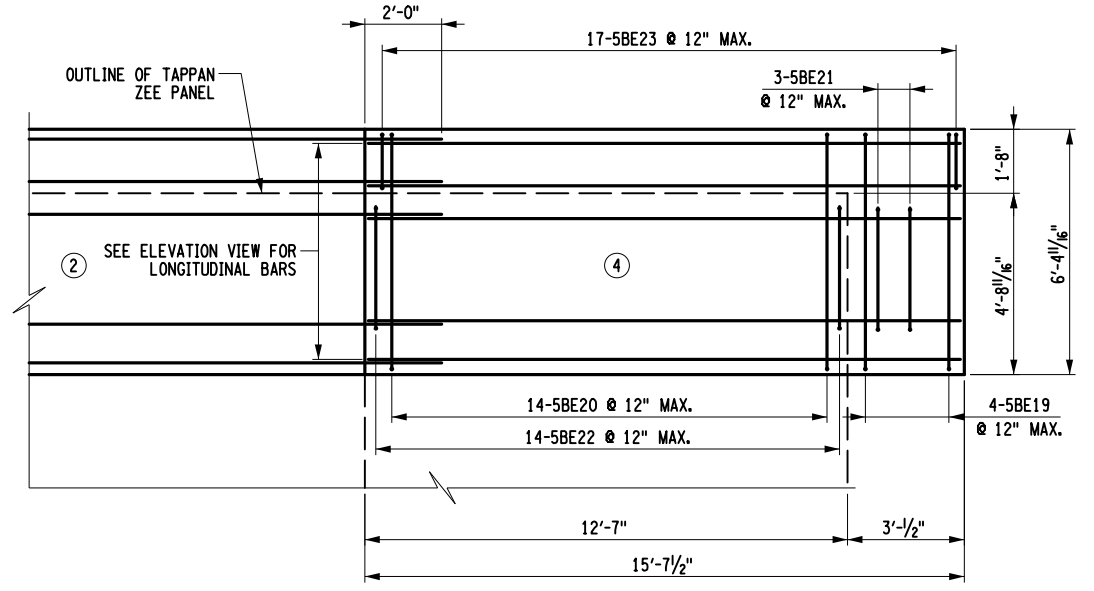
**BEGIN PILE CAP REINFORCEMENT SECTION  
(CONSTRUCTION STAGE 1B)**  
SCALE: 1"=5'-0"



**BEGIN PILE CAP LOWER POUR REINFORCEMENT PLAN  
(CONSTRUCTION STAGE 2)**  
SCALE: 1"=5'-0"



**BEGIN PILE CAP REINFORCEMENT SECTION  
(CONSTRUCTION STAGE 2)**  
SCALE: 1"=5'-0"



**BEGIN PILE CAP UPPER POUR REINFORCEMENT PLAN  
(CONSTRUCTION STAGE 2)**  
SCALE: 1"=5'-0"

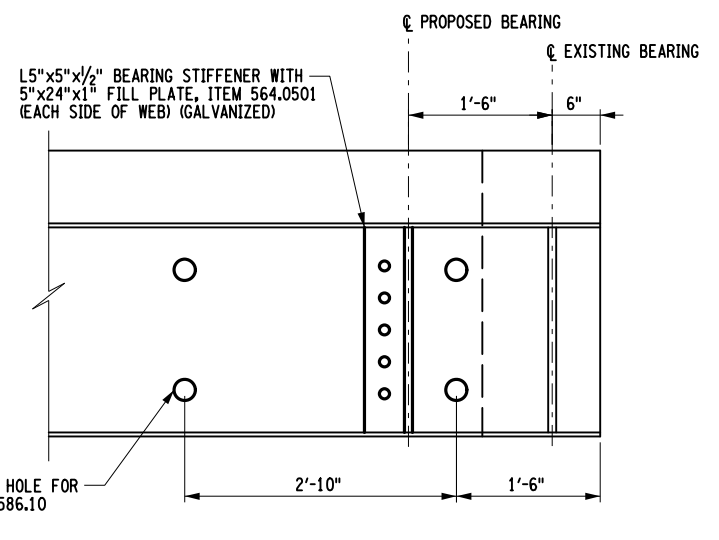
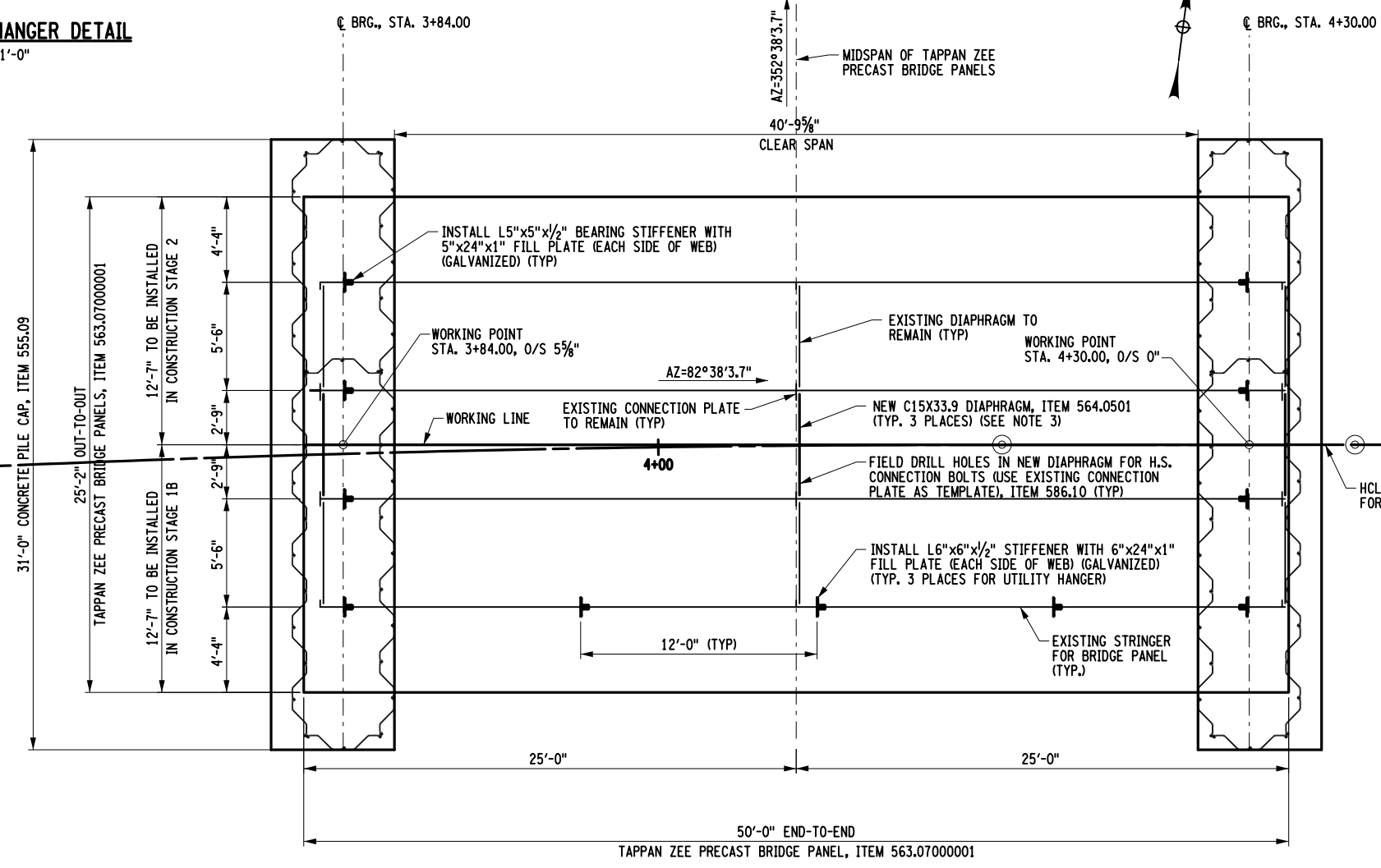
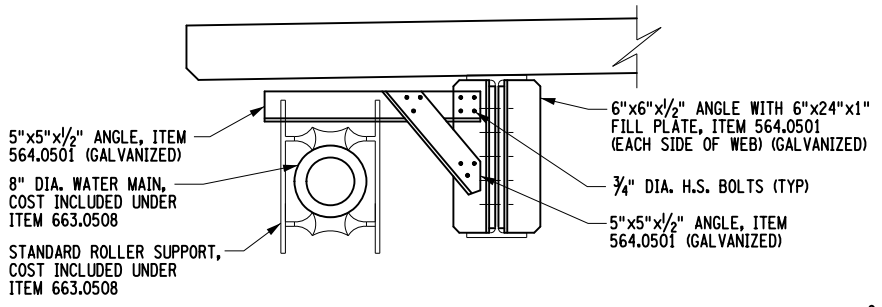
AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:	ALTERED BY: ON:

**NOTES:**  
1. BEGIN PILE CAP SHOWN. END PILE CAP SIMILAR.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	TOWN OF TICONDEROGA				PILE CAP REINFORCEMENT DETAILS (2 OF 2)	DRAWING NO. ST-9 SHEET NO. 17
	COUNTY: ESSEX	REGION: 1				
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						

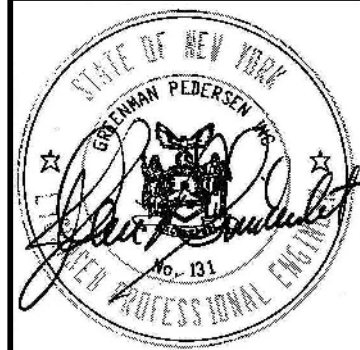
PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CIUCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\\176109\_TZA\_CPB\_FRM\_PLN.dgn  
 DATE/TIME = 4/1/2022  
 USER = skern



- NOTES:**
- SEE RECORD PLANS FOR TAPPAN ZEE PANELS PROVIDED AS PART OF THE BID DOCUMENTS.
  - USE NEW H.S. BOLTS TO CONNECT THE NEW DIAPHRAGMS TO THE EXISTING CONNECTION PLATES, PAID UNDER ITEM 564.0501.
  - ALL NEW C15x33.9 DIAPHRAGMS AND FILL PLATES TO BE HOT-DIP GALVANIZED, ITEM 564.20010008.

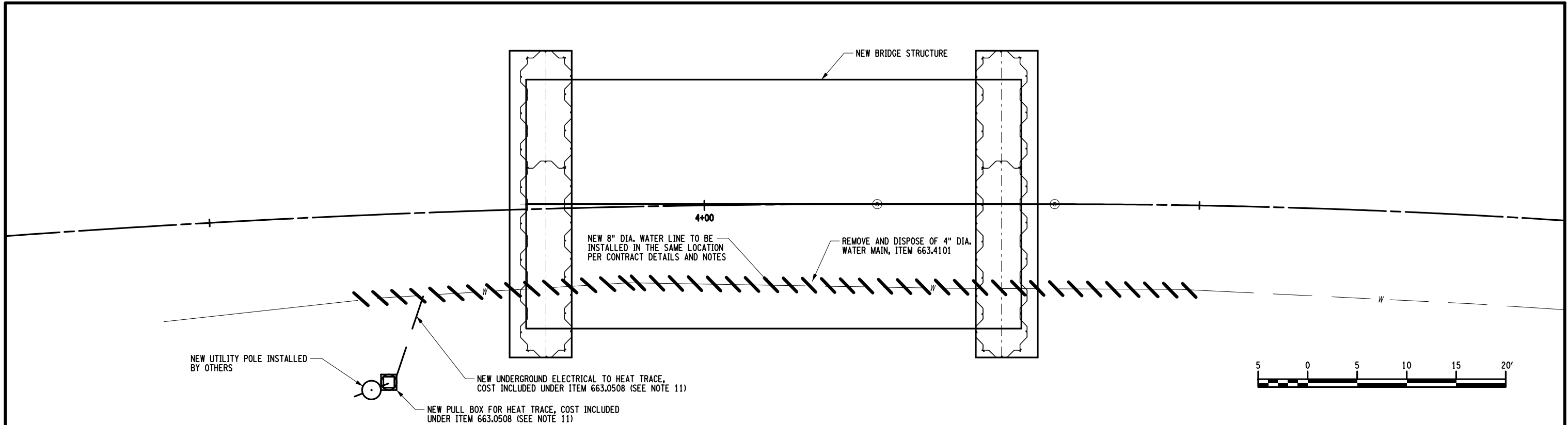
AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:  
 ALTERED BY: ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296	
	OVER FIVE MILE CREEK					DRAWING NO. ST-10 SHEET NO. 18	
	TOWN OF TICONDEROGA				FRAMING PLAN		
	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.						<b>GPI</b> GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS	TOWN OF TICONDEROGA

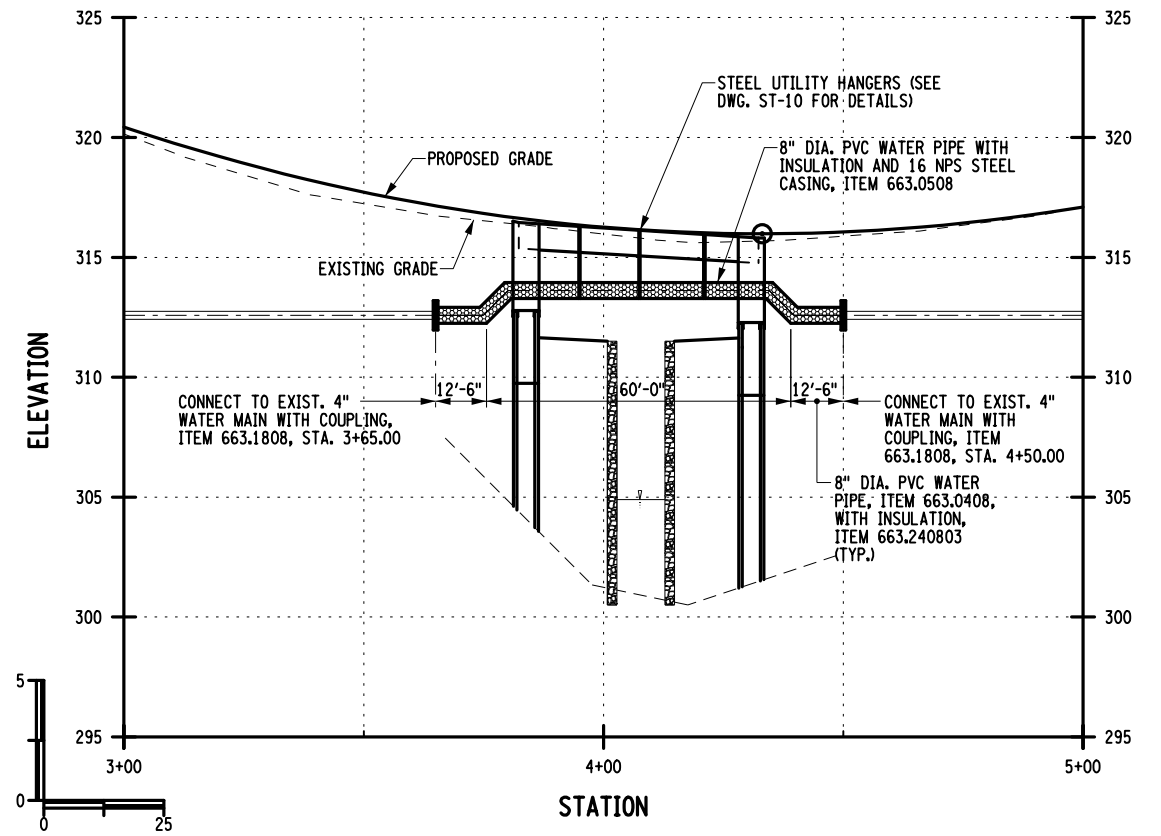
PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CUOCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET

FILE NAME = \\176109.TZA-CPB-WTR-PLN.dgn  
 DATE/TIME = 4/11/2022  
 USER = skern

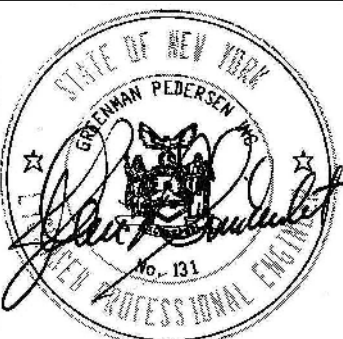




**NOTES:**

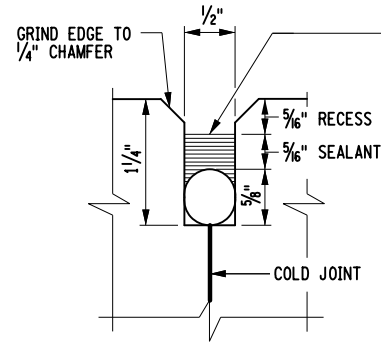
1. THE EXISTING WATER MAIN CONSISTS OF A 4" DIA. PIPE. ALL MATERIALS AND PROCEDURES EMPLOYED BY THE CONTRACTOR TO TAP, REMOVE AND/OR DISPOSE OF SECTIONS OF THIS PIPE SHALL COMPLY WITH CURRENT NYSOT STANDARD SPECIFICATIONS AND ALL APPLICABLE ENVIRONMENTAL STANDARDS AND REGULATIONS.
2. ALL PORTIONS OF THE EXISTING WATER DISTRIBUTION SYSTEM THAT ARE NOT IMPACTED BY THIS PROJECT SHALL REMAIN IN SERVICE AT ALL TIMES.
3. THE CONTRACTOR SHALL LOCATE ALL EXISTING WATER MAINS WITHIN THE PROJECT LIMITS IN ORDER TO VERIFY THEIR LOCATIONS, SIZES, GRADES AND CONFIGURATIONS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS WATER ITEMS.
4. THE PROPOSED WATER MAIN SHALL BE PRESSURE TESTED AND DISINFECTED PRIOR TO THEIR CONNECTION TO THE EXISTING WATER DISTRIBUTION SYSTEM. HYDROSTATIC PRESSURE AND LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA). DISINFECTION AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C651 (STANDARD FOR DISINFECTING WATER MAINS).
5. AFTER THE WATER MAIN HAS BEEN INSTALLED, TESTED AND DISINFECTED TO THE SATISFACTION OF THE ENGINEER AND THE TOWN OF TICONDEROGA, THE CONTRACTOR MAY CONNECT TO THE EXISTING WATER DISTRIBUTION SYSTEM PER THE FOLLOWING CRITERIA:
  - A. ALL CONNECTIONS TO THE EXISTING WATER DISTRIBUTION SYSTEM THAT REQUIRE A SHUT-DOWN OF SERVICE SHALL BE SCHEDULED WITH THE TOWN AT LEAST 1 WEEK IN ADVANCE. NO INTERRUPTION OF WATER SERVICE SHALL EXTEND BEYOND THE SCHEDULED ALLOTTED TIME FRAME.
  - B. THE CONTRACTOR SHALL HAVE A CONTINGENCY PLAN IN PLACE, PRIOR TO THE INITIAL CONNECTIONS TO THE EXISTING WATER DISTRIBUTION SYSTEM, IN THE EVENT THAT A SHUT-DOWN OF WATER SERVICE EXTENDS BEYOND THE ALLOTTED TIME FRAME. THIS CONTINGENCY PLAN SHALL BE SUBMITTED IN WRITING TO THE ENGINEER AND CLEARLY INDICATE THE MEANS, METHODS AND SEQUENCE OF OPERATIONS THAT WOULD BE NECESSARY IN THIS EVENT. THE ENGINEER AND THE TOWN OF TICONDEROGA SHALL APPROVE THIS PLAN PRIOR TO THE START OF CONNECTION OPERATIONS. THE COST OF THE CONTINGENCY PLAN AND ITS IMPLEMENTATION, IF NECESSARY, SHALL BE INCLUDED UNDER THE VARIOUS PROPOSED WATER MAIN ITEMS.
6. THE COST FOR REMOVAL AND DISPOSAL OF THE EXISTING WATER MAIN, INSULATION AND ANY APPURTANCES, LOCATED WITHIN THE PROJECT LIMITS, SHALL BE INCLUDED UNDER ITEM 663.4104. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, ALL LABOR, MATERIALS, EQUIPMENT, AND INSURANCES DEEMED NECESSARY TO SATISFACTORILY COMPLETE THE WORK.
7. REFER TO NYSOT STANDARD SHEETS 663-01 THROUGH 663-07 FOR ADDITIONAL NOTES AND DETAILS.
8. THE LOCATIONS AND ELEVATIONS OF THE EXISTING WATER MAIN SHOWN IS APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF THE PROPOSED WATER MAIN.
9. DUE TO UNEXPECTED FIELD CONDITIONS, THE CONTRACTOR MAY PROPOSE ALTERNATE ROUTE(S) FOR THE NEW WATER MAIN. ANY PROPOSAL FOR CHANGES MUST BE MADE IN WRITING AND APPROVED BY THE E.I.C. PRIOR TO CONSTRUCTION.
10. THE PROPOSED UNDERGROUND WATER MAIN SHALL BE INSULATED AT ALL LOCATIONS WHERE COVER IS LESS THAN 5'-0", AS MEASURED FROM THE TOP OF THE PIPE AND A.O.B.E. (ITEM 663.240803).
11. A HEAT TRACE SYSTEM SHALL BE INSTALLED WITH THE NEW WATER LINE WITHIN THE LIMITS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER THE HEAT TRACE SUPPLIER AND SPECIFICATIONS FOR APPROVAL PRIOR TO PURCHASING. ALL COSTS ASSOCIATED WITH THE HEAT TRACE, ELECTRICAL LINE, AND PULL BOXES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BRIDGE MOUNTED WATER PIPE, ITEM 663.0508.



**PROPOSED WATER MAIN PROFILE**

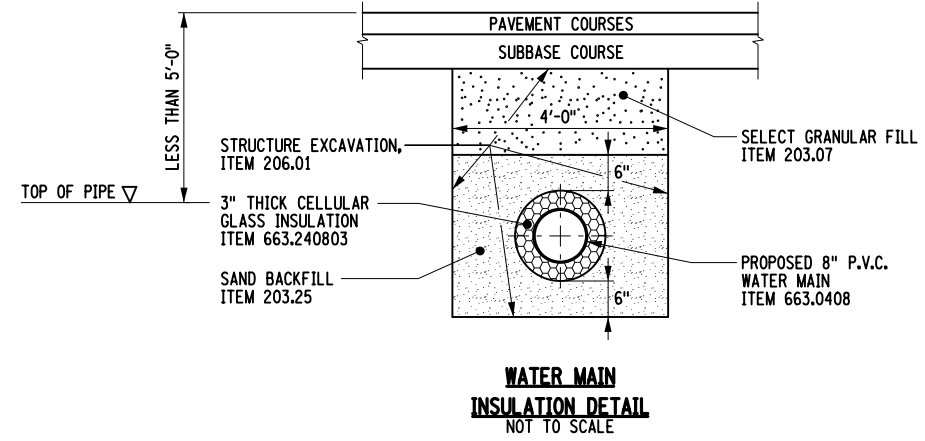
AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:	ALTERED BY: ON:
	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
WATER MAIN PLAN AND PROFILE					DRAWING NO. ST-11 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.					 GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS	 TOWN OF TICONDEROGA



**JOINT RECESS DETAIL**  
NOT TO SCALE

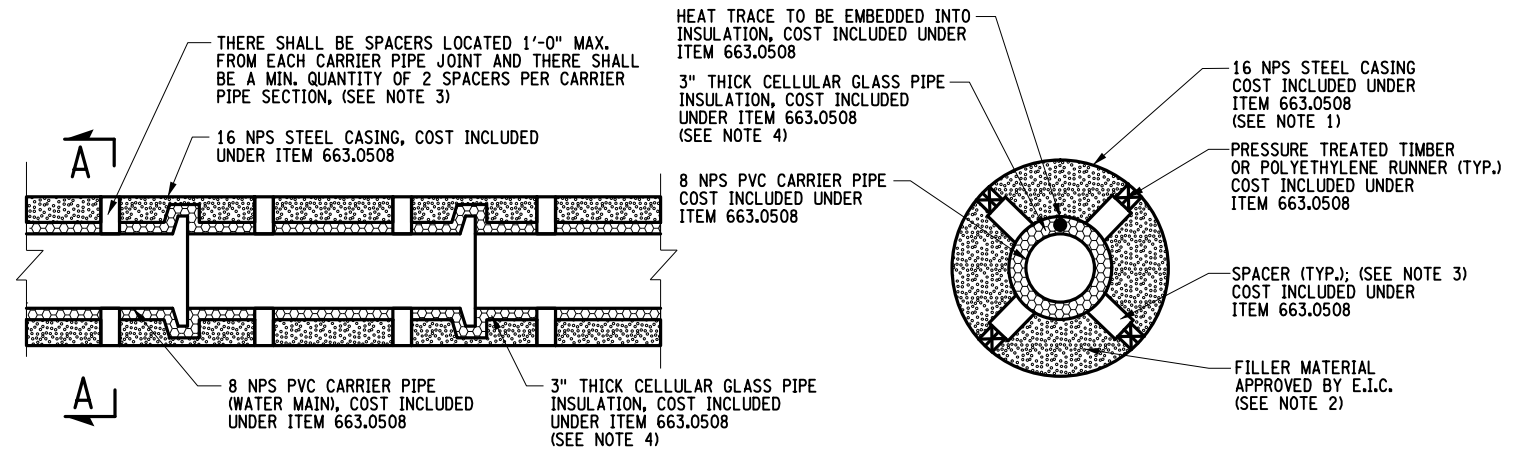
FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, SILICONE SEALANT, FROM THE DEPARTMENT'S APPROVED LIST FOR ITEM 567.51-16. IF THE RECESS IS SAW CUT, WATER BLAST IMMEDIATELY FOLLOWING CUTTING TO REMOVE ANY RESIDUAL SLURRY BEFORE IT DRIES. CLEAN THE VERTICAL FACES OF THE RECESS BY ABRASIVE BLAST, AND AIR BLOW THE RESIDUE FROM THE RECESS. PRIME THE VERTICAL FACES WITH THE MANUFACTURER'S RECOMMENDED PRIMER, AND ALLOW TO DRY. PLACE A 5/8" DIA. SOFT CLOSED CELL BACKER ROD IN THE BOTTOM OF THE RECESS. POUR THE SILICONE SEALANT TO A DEPTH OF APPROX. 5/16". PAYMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB.



**WATER MAIN INSULATION DETAIL**  
NOT TO SCALE

**WATER MAIN INSULATION NOTES:**

1. THE PROPOSED WATER MAIN SHALL BE INSULATED AT ALL LOCATIONS WHERE COVER IS LESS THAN 5'-0", AS MEASURED FROM THE TOP OF THE PIPE, AND A.O.B.E.
2. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL COSTS FOR THE INSULATION OF THE PROPOSED WATER MAIN SHALL BE COVERED UNDER ITEM 663.240803. THIS INCLUDES, BUT IS NOT LIMITED TO, LABOR, EQUIPMENT, INSULATION, COVERING, TAPE, ETC., EXCEPT EXCAVATION AND BACKFILL SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.



**LONGITUDINAL SECTION**

**SECTION A-A**

**WATER MAIN CASING DETAIL**

**STEEL CASING NOTES:**

1. CASING SHALL BE A SCHEDULE 40 STEEL PIPE; CASING PIPE SECTIONS SHALL BE BUTT WELDED TOGETHER; MIN. INSIDE DIAMETER OF CASING PIPE SHALL BE 6" TO 8" GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE'S BELLS.
2. ANNULAR SPACE SHALL BE FILLED WITH GROUT, SAND OR APPROVED MATERIAL A.O.B.E.; COST INCLUDED UNDER ITEM 663.0508.
3. EACH SECTION OF HDPE CARRIER PIPE WITHIN THE CASING SHALL CONTAIN A MINIMUM OF TWO (2) SPACERS; ALL CARRIER PIPE SECTIONS WITHIN THE CASING SHALL HAVE RESTRAINED JOINTS. COST INCLUDED UNDER ITEM 663.0508.
4. PIPE INSULATION SHALL BE TRIMMED AND REMOVED AS NECESSARY TO ACCOMMODATE SPACERS. COST INCLUDED UNDER ITEM 663.0508.

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
ON: \_\_\_\_\_  
ALTERED BY:  
ON: \_\_\_\_\_

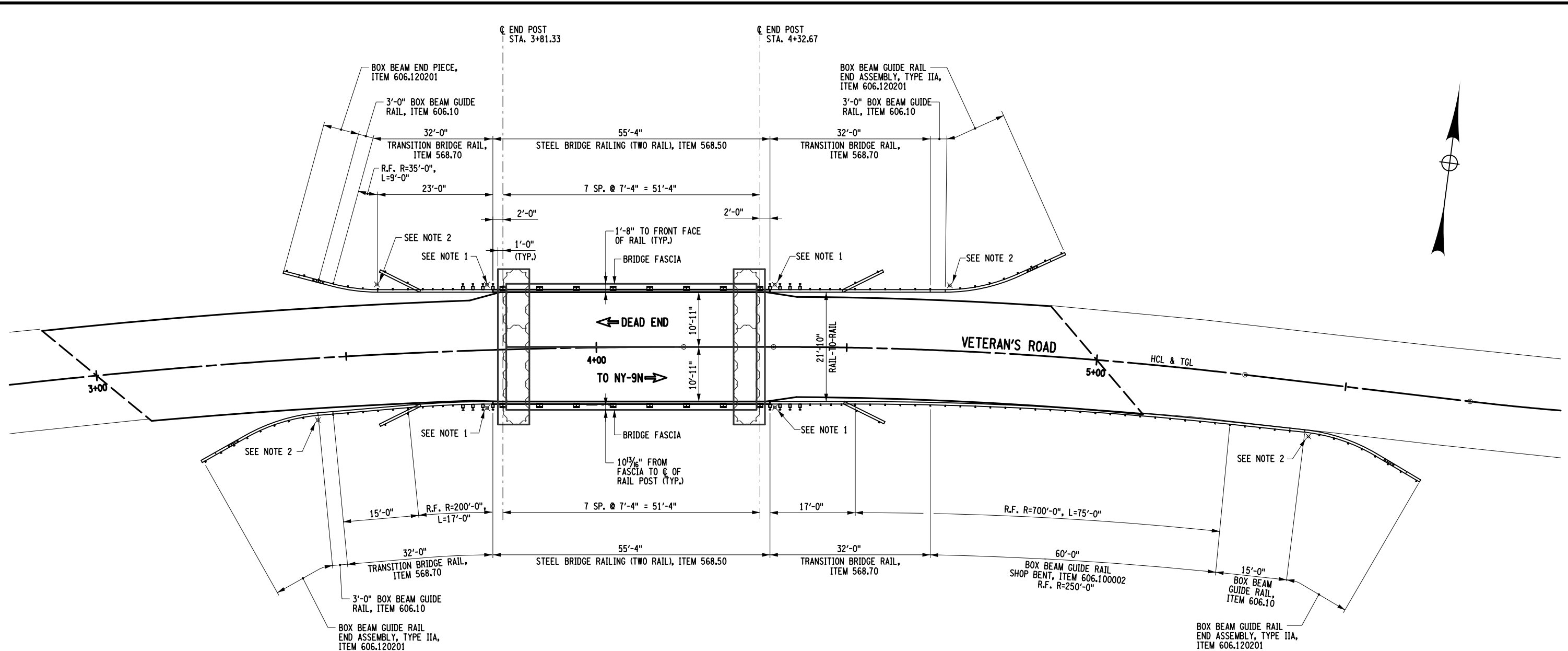


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296	
	OVER FIVE MILE CREEK					MISCELLANEOUS DETAILS	DRAWING NO. ST-12 SHEET NO. 20
	TOWN OF TICONDEROGA						
	COUNTY: ESSEX	REGION: 1					
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.							



PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CIUCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\\176109.TZA.CPB.RLG.PLN.P.dgn  
 DATE/TIME = 4/1/2022  
 USER = skern



**PROPOSED RAILING PLAN**  
SCALE: 1"=20'

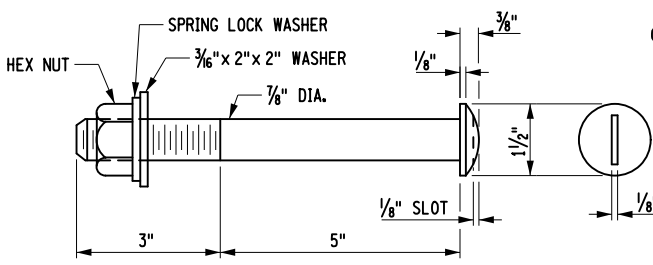
- NOTES:**
1. COMMON 2.0 LB/FT STEEL POST, ITEM 646.32, WITH ONE LARGE SUPPLEMENTARY SNOWPLOWING MARKER SINGLE UNIT PANEL ON BOTH SIDES OF POST (PAID AS TWO PANELS FOR EACH POST LOCATION, ITEM 646.23). TYPICAL FOR BEHIND ALL FOUR TRANSITION RAILINGS BETWEEN FIRST AND SECOND POST AND WHERE SHOWN ON PLANS.
  2. COMMON 2.0 LB/FT STEEL POST, ITEM 646.32, WITH ONE LARGE SNOWPLOWING MARKER SINGLE UNIT PANEL ON THE POST SIDE FACING ONCOMING TRAFFIC, ITEM 646.23. TYPICAL AT POINT OF TANGENCY AS SHOWN ON PLANS.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:	ALTERED BY: ON:

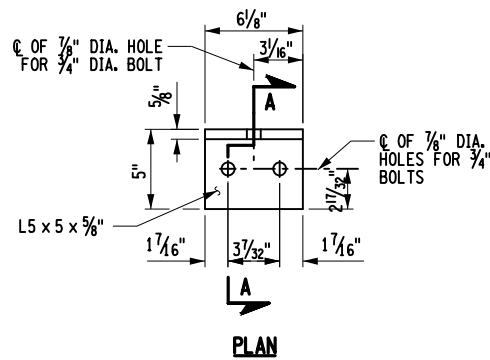
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK					DRAWING NO. ST-13
	TOWN OF TICONDEROGA					SHEET NO. 21
COUNTY: ESSEX	REGION: 1					

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

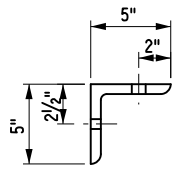
PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CUOCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET



**SLOTTED ROUND HEAD BOLT**  
NOT TO SCALE



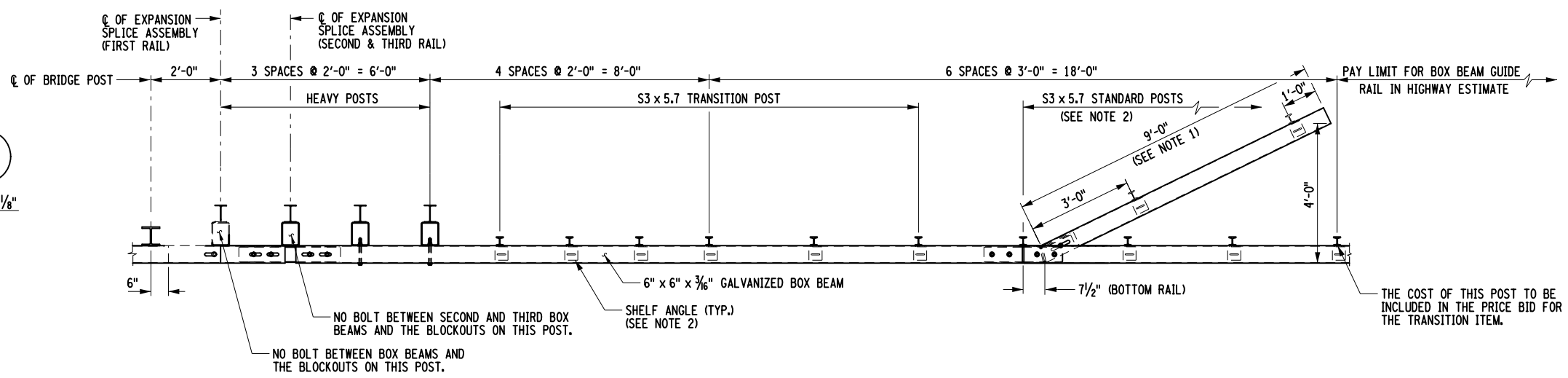
**PLAN**



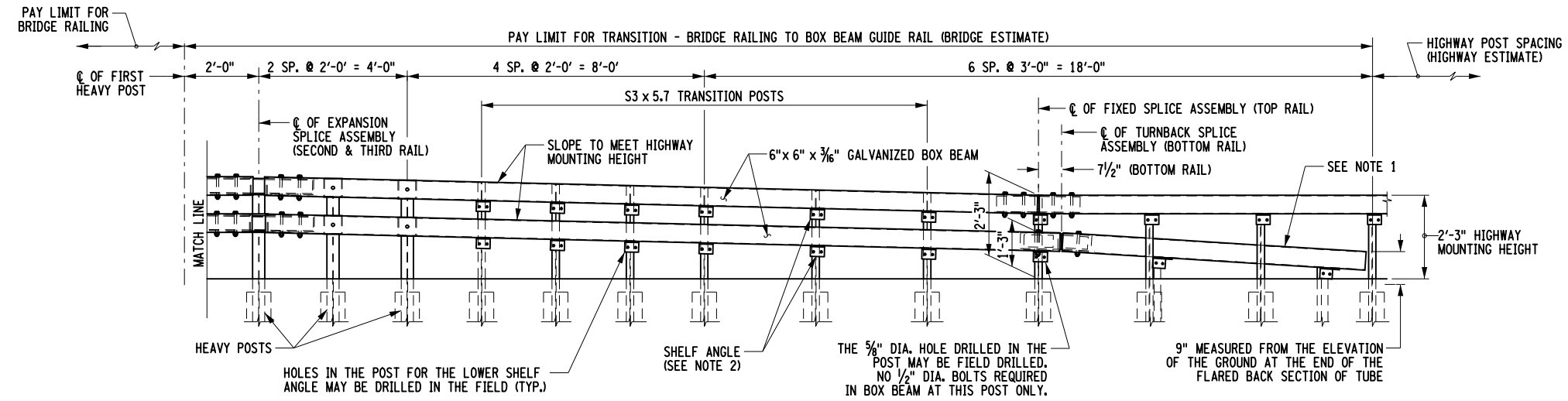
**SECTION A-A**

**RAILING ANGLE DETAILS**  
NOT TO SCALE

- NOTES:**
1. THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE LOWER TUBE FLARE SECTION IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.
  2. SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".

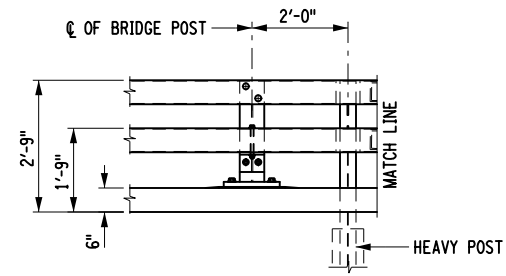


**PLAN**



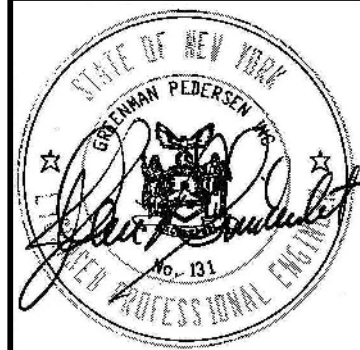
**ELEVATION**

**STANDARD TRANSITION BRIDGE RAILING**  
NOT TO SCALE



**ELEVATION**  
**TWO-RAIL WITH BRUSH CURB**  
NOT TO SCALE

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
ON: \_\_\_\_\_  
ALTERED BY: \_\_\_\_\_  
ON: \_\_\_\_\_



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK					DRAWING NO. ST-14 SHEET NO. 22
	TOWN OF TICONDEROGA	REGION: 1			RAILING DETAILS (1 OF 3)	
	COUNTY: ESSEX					

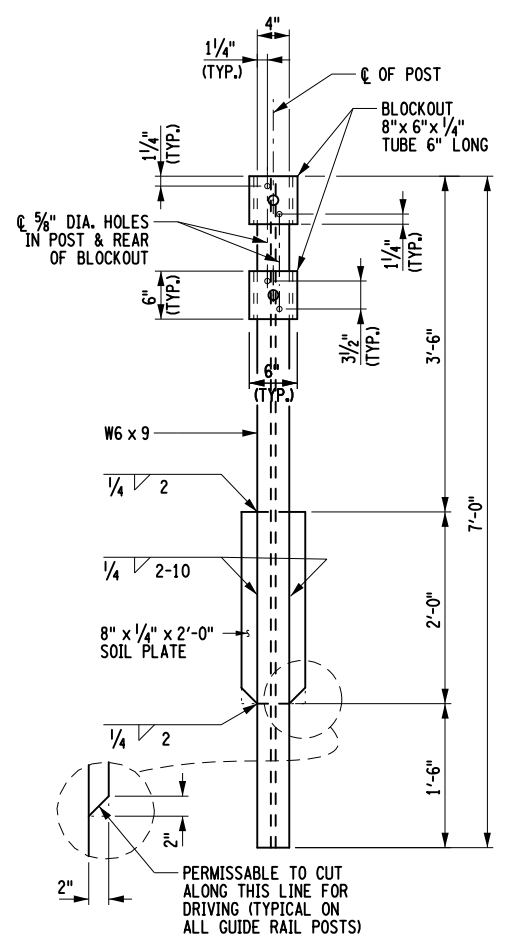
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**GPI** GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

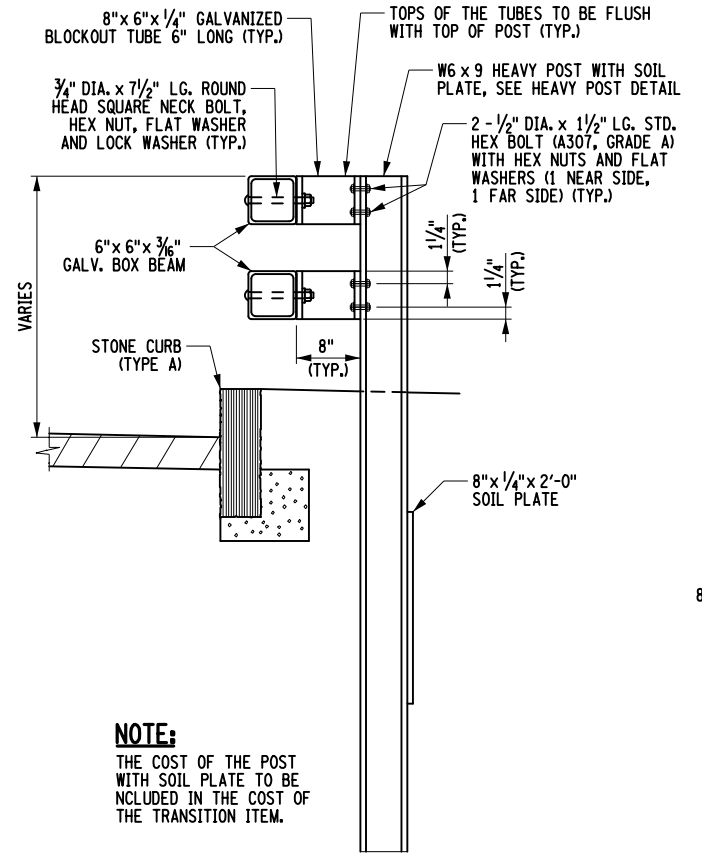
TOWN OF TICONDEROGA

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 USER = skern

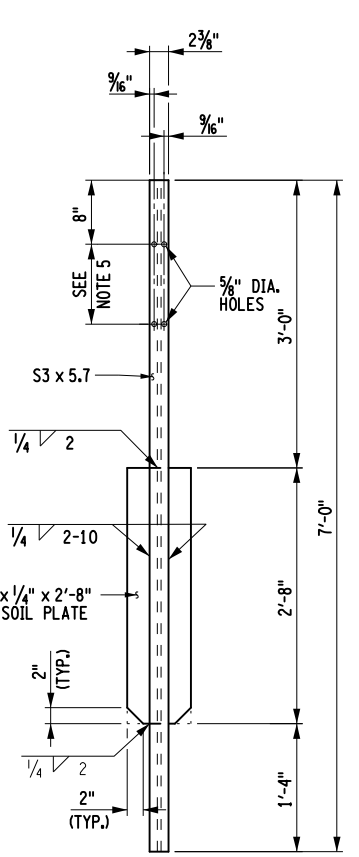
PROJECT MANAGER S. KERN  
 CHECK S. KERN  
 DRAFTING F. CUOCCIO  
 CHECK B. WEAVER  
 DESIGN S. KERN  
 JOB MANAGER D. THOMAS  
 DESIGN SUPERVISOR J. SIMKULET  
 FILE NAME = ...176109\_TZA\_CPB\_RLG\_DTL-2.dgn  
 DATE/TIME = 4/11/2022  
 USER = skern



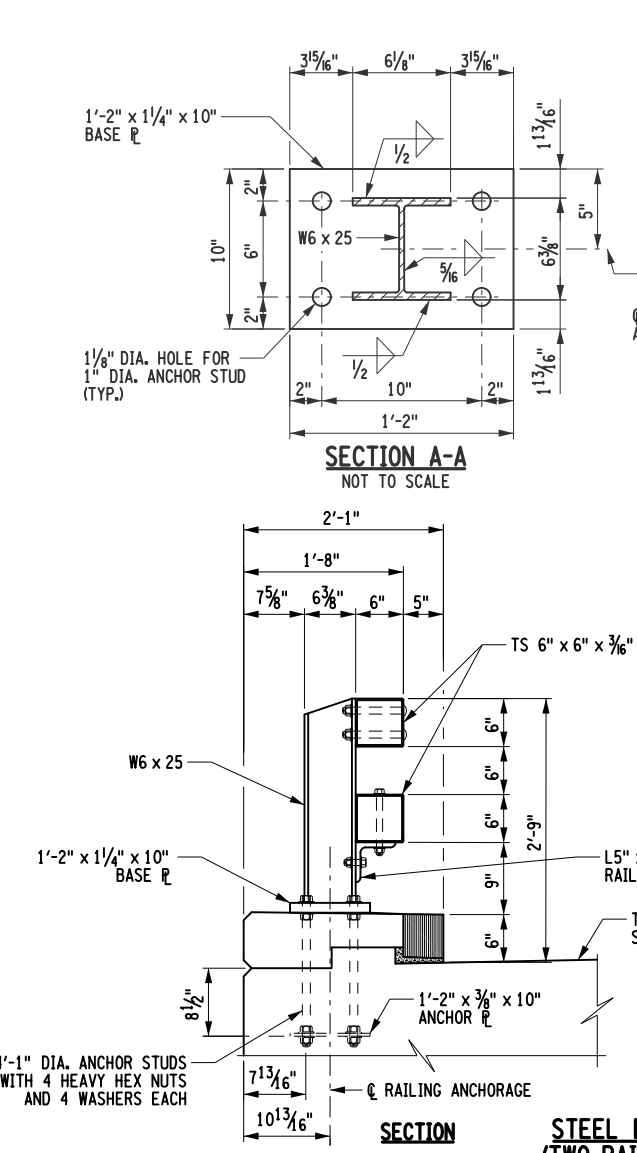
**HEAVY POST DETAIL**  
NOT TO SCALE



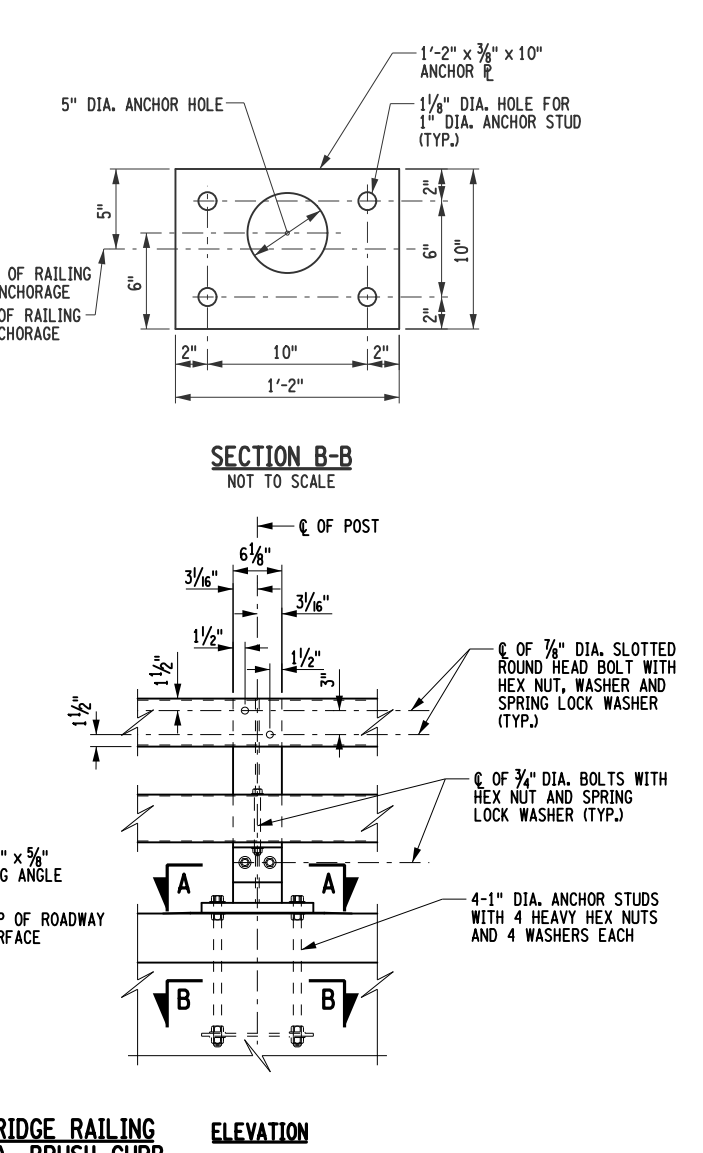
**HEAVY POST ELEVATION**  
NOT TO SCALE



**TRANSITION POST DETAIL**  
NOT TO SCALE

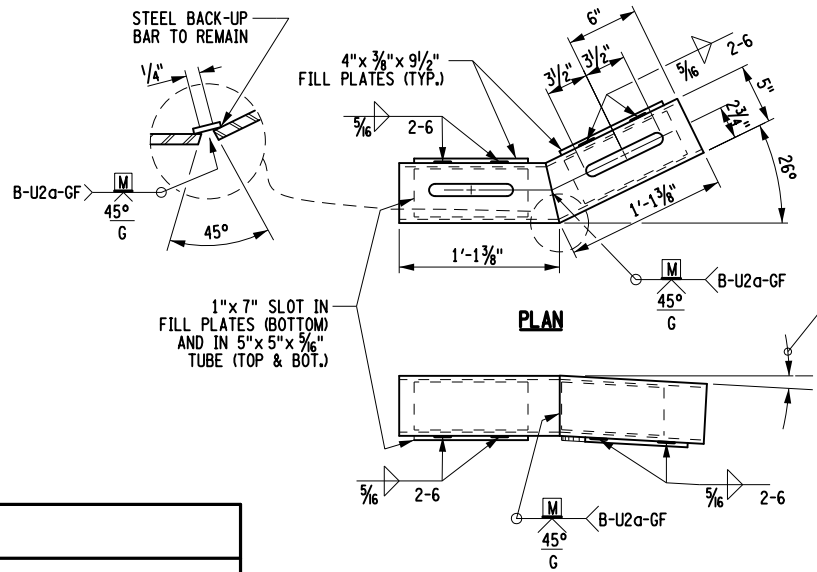


**SECTION A-A**  
NOT TO SCALE

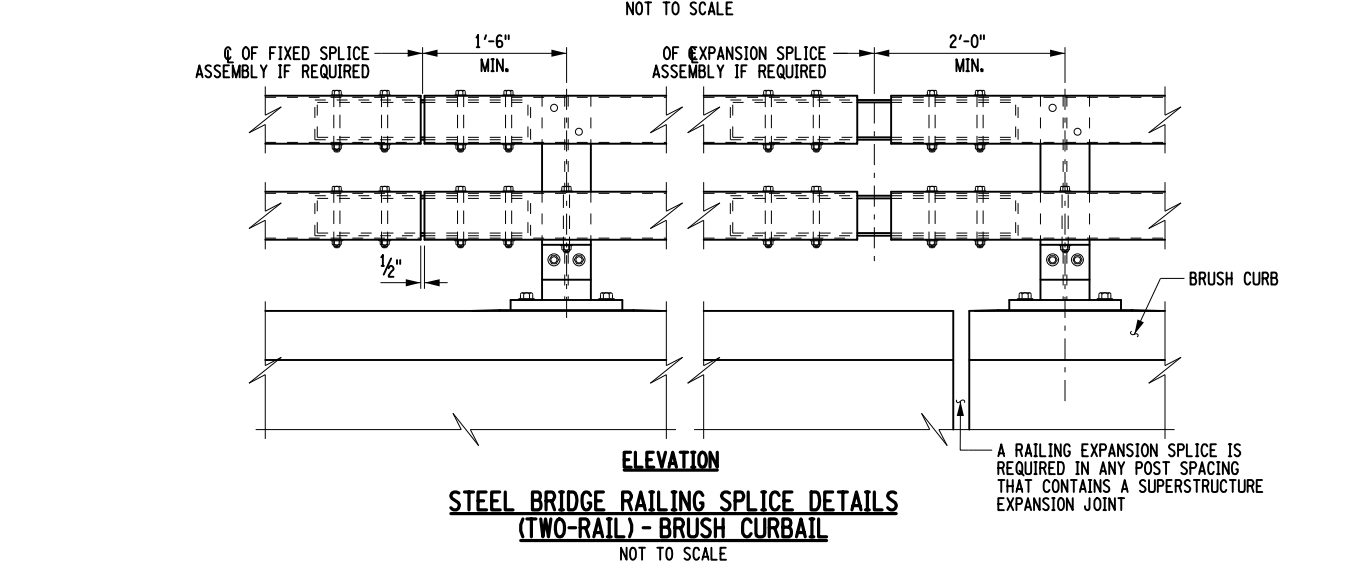


**SECTION B-B**  
NOT TO SCALE

- NOTES:**
1. ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
  2. PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
  3. BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB).
  4. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
  5. HOLES IN THE POST FOR THE LOWER RAIL MAY BE LOCATED AND DRILLED IN THE FIELD. IF SO, THE GALVANIZING SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01.



**PLAN**  
**ELEVATION**  
**SPLICE TUBE DETAILS FOR TURN BACK**  
NOT TO SCALE



**ELEVATION**  
**STEEL BRIDGE RAILING SPLICE DETAILS**  
**(TWO-RAIL) - BRUSH CURB**  
NOT TO SCALE

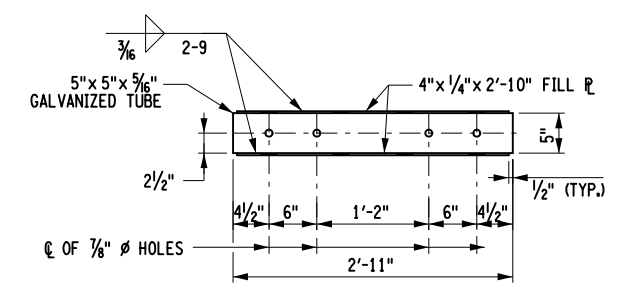
A RAILING EXPANSION SPLICE IS REQUIRED IN ANY POST SPACING THAT CONTAINS A SUPERSTRUCTURE EXPANSION JOINT

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: \_\_\_\_\_  
 ALTERED BY: ON: \_\_\_\_\_

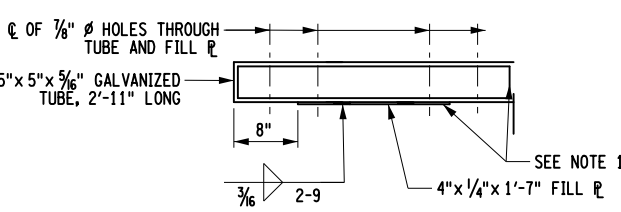
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK				RAILING DETAILS (2 OF 3)	DRAWING NO. ST-15
	TOWN OF TICONDEROGA					SHEET NO. 23
	COUNTY: ESSEX REGION: 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.					<b>GPI</b> GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS	TOWN OF TICONDEROGA

FILE NAME = ...176109\_TZA\_CPB\_RLG\_DTL-3.dgn  
 DATE/TIME = 4/11/2022  
 USER = skern

DESIGN SUPERVISOR J. SIMKULET  
 JOB MANAGER D. THOMAS  
 DESIGN S. KERN  
 CHECK B. WEAVER  
 DRAFTING F. CIUCCIO  
 CHECK S. KERN  
 PROJECT MANAGER S. KERN

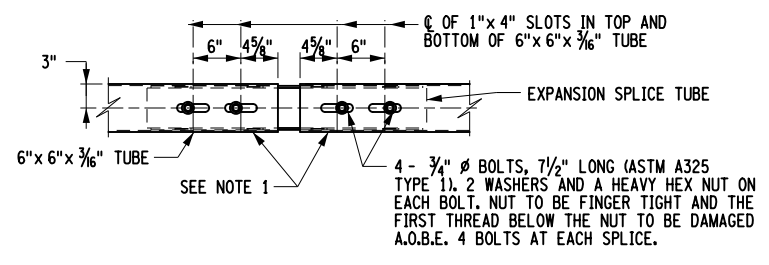


PLAN

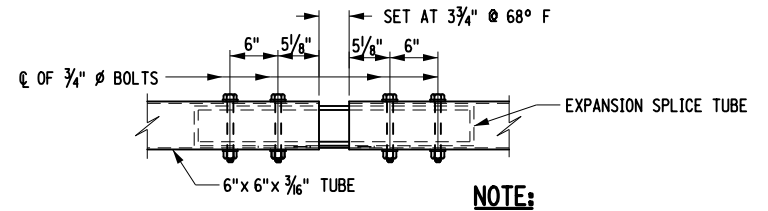


ELEVATION

EXPANSION SPLICE TUBE  
NOT TO SCALE



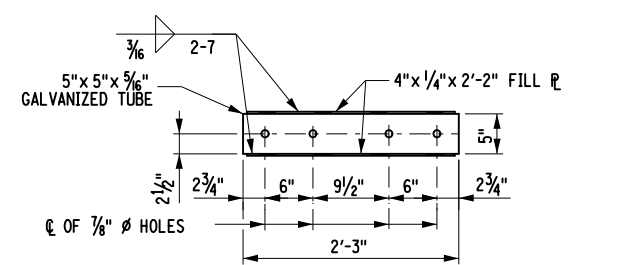
PLAN



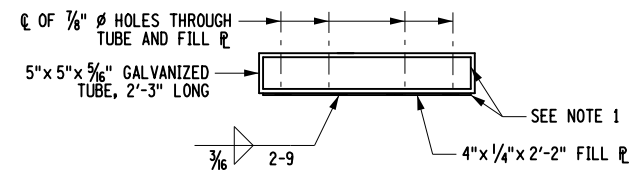
ELEVATION

EXPANSION SPLICE TUBE ASSEMBLY  
NOT TO SCALE

NOTE:  
THE 5/8" DIMENSION IS SET AT 68°F.

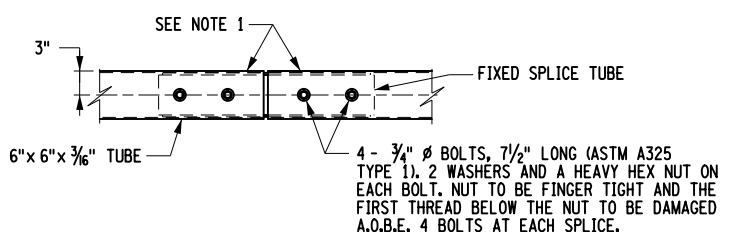


PLAN

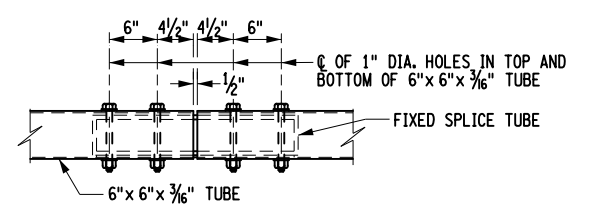


ELEVATION

FIXED SPLICE TUBE  
NOT TO SCALE



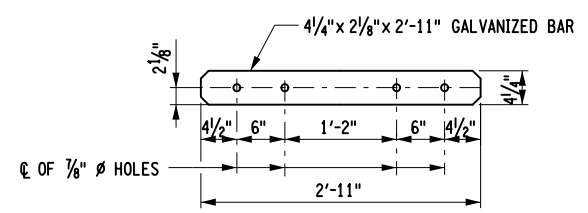
PLAN



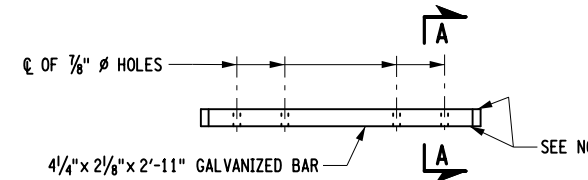
ELEVATION

FIXED SPLICE TUBE ASSEMBLY  
NOT TO SCALE

NOTE 1:  
4 - 3/4" diameter bolts, 7 1/2" long (ASTM A325 TYPE 1), 2 WASHERS AND A HEAVY HEX NUT ON EACH BOLT. NUT TO BE FINGER TIGHT AND THE FIRST THREAD BELOW THE NUT TO BE DAMAGED A.O.B.E. 4 BOLTS AT EACH SPLICE.

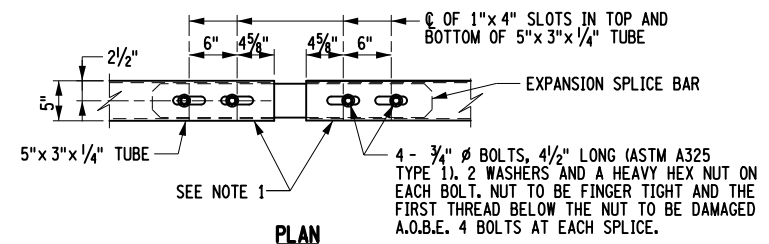


PLAN

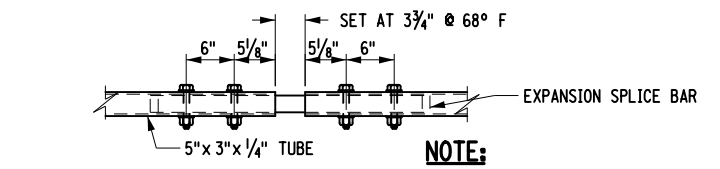


ELEVATION

EXPANSION SPLICE BAR  
NOT TO SCALE



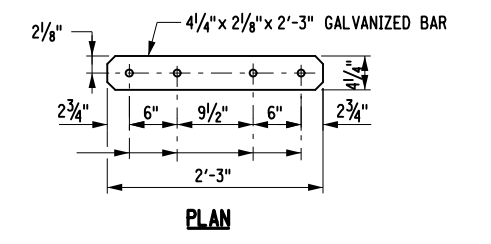
PLAN



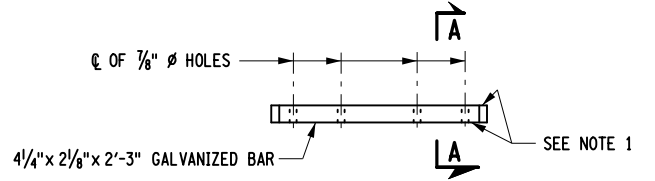
ELEVATION

EXPANSION SPLICE BAR ASSEMBLY  
NOT TO SCALE

NOTE:  
THE 5/8" DIMENSION IS SET AT 68°F.

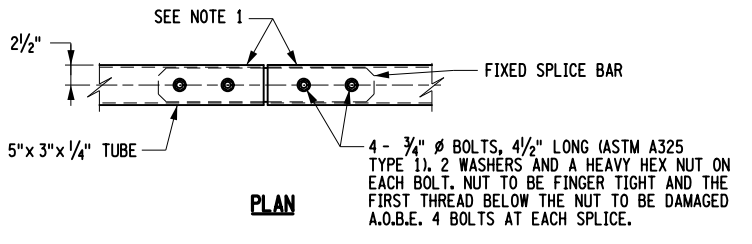


PLAN

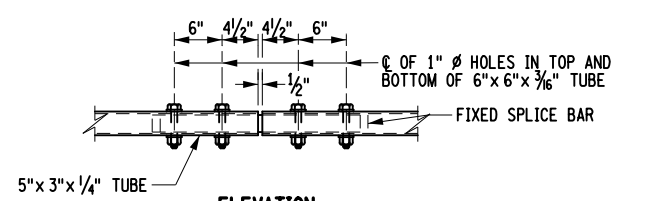


ELEVATION

FIXED SPLICE BAR  
NOT TO SCALE



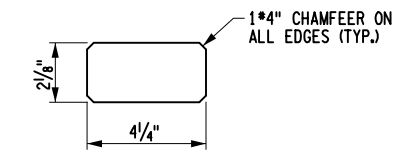
PLAN



ELEVATION

FIXED SPLICE BAR ASSEMBLY  
NOT TO SCALE

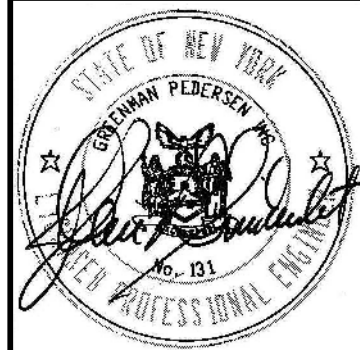
NOTE 1:  
4 - 3/4" diameter bolts, 4 1/2" long (ASTM A325 TYPE 1), 2 WASHERS AND A HEAVY HEX NUT ON EACH BOLT. NUT TO BE FINGER TIGHT AND THE FIRST THREAD BELOW THE NUT TO BE DAMAGED A.O.B.E. 4 BOLTS AT EACH SPLICE.



SECTION A-A  
NOT TO SCALE

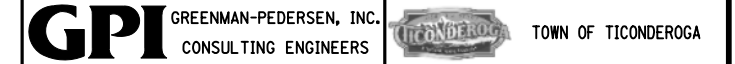
- NOTES:
- PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

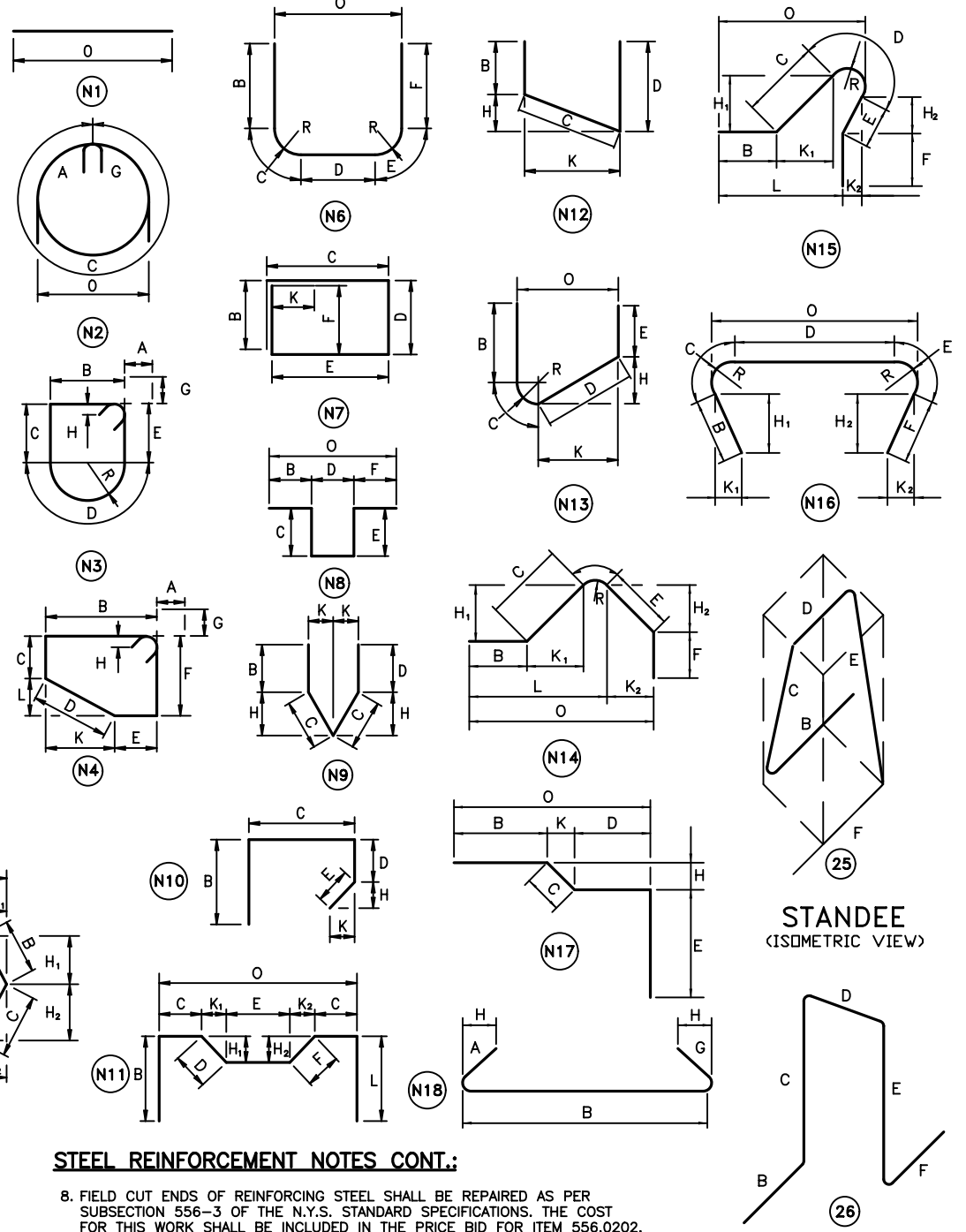
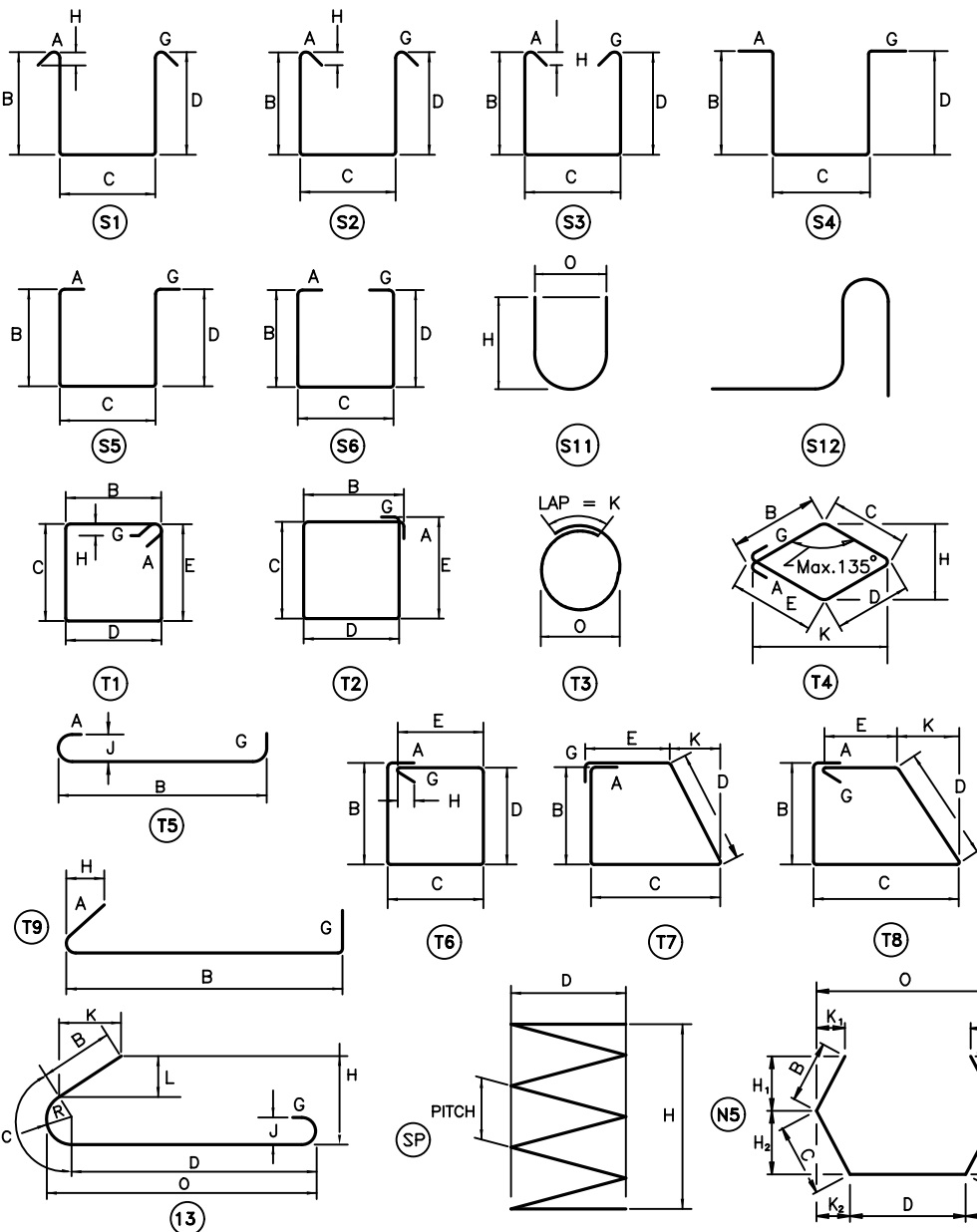
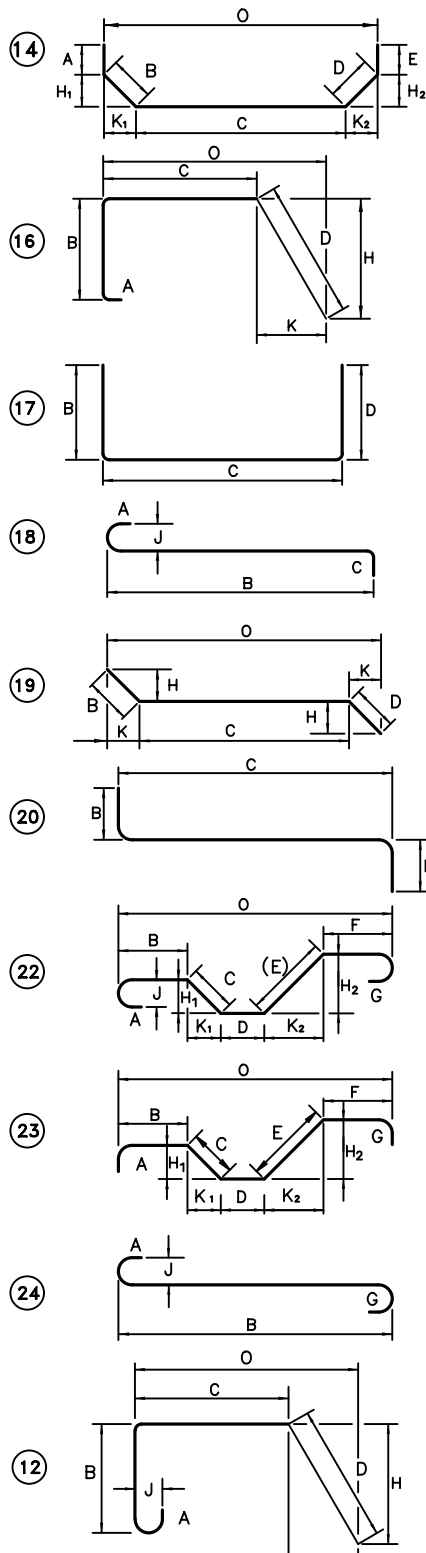
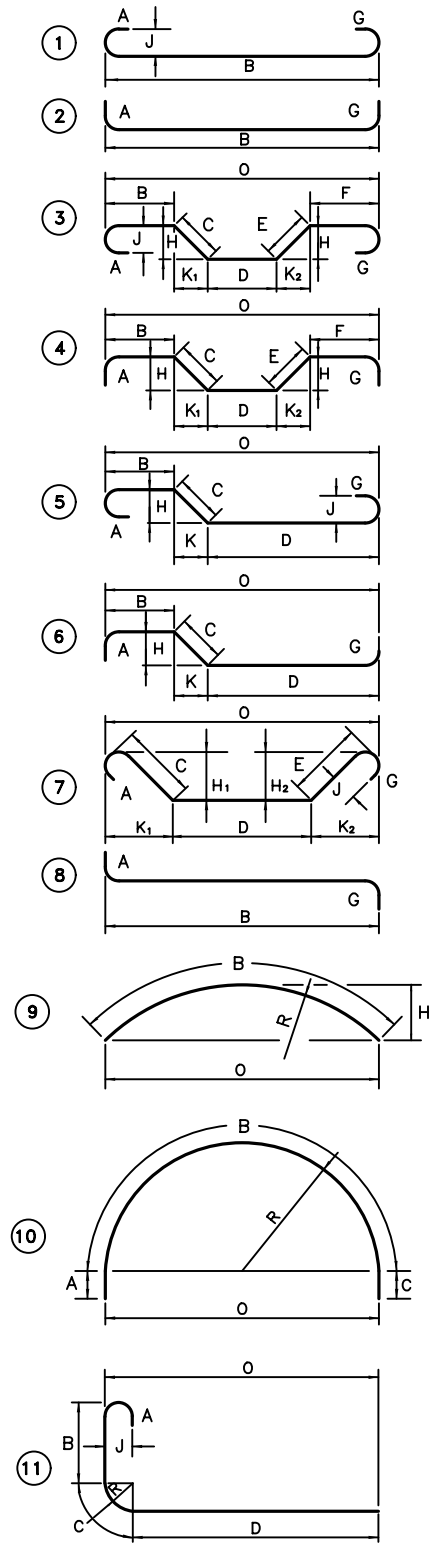
AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:  
 ALTERED BY: ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX	PIN 1761.09 REGION: 1	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
RAILING DETAILS (3 OF 3)					DRAWING NO. ST-16 SHEET NO. 24	

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.





**STEEL REINFORCEMENT NOTES:**

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", ASTM A615-06a. ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED P.I.N. DIAMETER "D" OF BENDS HOOKS AND OTHER STANDARD PRACTICES SEE ACI-318-05 & THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICES" (MSP).
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED ON THE BARLIST.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
- DIMENSIONS "A","G" AND "J" ARE STANDARD BENDING DIMENSIONS PER EACH SIZE OF BAR. REFER TO C.R.S.I. - M.S.P. FOR DETAILS.
- WHERE SLOPE DIFFERS FROM 45°, DIMENSIONS "H" AND "K" MUST BE SHOWN ON BARLIST.
- ▲ - INDICATES BARS TO CUT TO FIT IN THE FIELD.

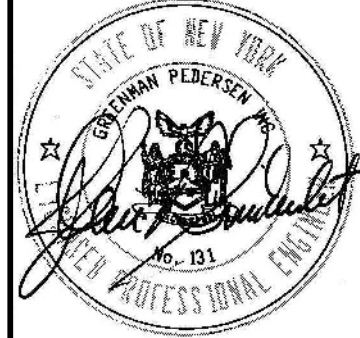
**STEEL REINFORCEMENT NOTES CONT.:**

- FIELD CUT ENDS OF REINFORCING STEEL SHALL BE REPAIRED AS PER SUBSECTION 556-3 OF THE N.Y.S. STANDARD SPECIFICATIONS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 556.0202.
- ITEM FOR REINFORCING STEEL IS AS FOLLOWS:  
556.0202 - EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES.
- BAR MARK PROCEDURE IS AS FOLLOWS:  
5BE03  
  - SEQUENTIAL BAR NUMBER.
  - INDICATES BAR COATING (E=EPOXY-COATED)
  - INDICATES STRUCTURE TYPE AND/OR LOCATION (B=BEGIN ABT, E=END ABT, H=HEADWALL)
  - INDICATES BAR SIZE (IE. 5,6,7,ETC.)
- BAR MARKS SHOULD NORMALLY INCREASE IN SEQUENTIAL NUMBER AND SIZE FROM SMALLEST TO LARGEST AT EACH LOCATION.
- "\*" - INDICATES BAR MARK IS OUT OF SEQUENCE.

STANDEE  
(ISOMETRIC VIEW)

STANDEE  
(ISOMETRIC VIEW)

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_  
 ALTERED BY:  
 ON: \_\_\_\_\_



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK				BAR BENDS	DRAWING NO. ST-17
	TOWN OF TICONDEROGA					SHEET NO. 25
	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.

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
BEGIN LOWER PILE CAP (STAGE 1) - PLACEMENT 1																					
SBE01	19	5	12'-5"	T1	246.1	5.5"	3'-1"	2'-8"	3'-1"	2'-8"		5.5"	3.75"								
SBE02	14	5	17'-10"	STR	260.4																
6BE03	6	6	17'-10"	STR	160.7																
SBE04	16	5	11'-1"	S3	185.0	5.5"	3'-10"	2'-6"	3'-10"			5.5"	3.75"								
SBE05	3	5	12'-9"	S3	39.9	5.5"	4'-6"	2'-10"	4'-6"			5.5"	3.75"								
TOTAL FOR PLACEMENT 1:					893	LBS.															


MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
BEGIN UPPER PILE CAP (STAGE 1) - PLACEMENT 2																					
SBE06	4	5	19'-5"	T1	81.0	5.5"	6'-0"	3'-3"	6'-0"	3'-3"		5.5"	3.75"								
SBE07	13	5	12'-5"	16	168.4	6"	2'-7"	6'-0"	3'-4"				3'-4"			0'				6'-0"	
SBE08	3	5	10'-3"	S3	32.1	5.5"	3'-3"	2'-10"	3'-3"			5.5"	3.75"								
SBE09	13	5	8'-7"	S3	116.4	5.5"	2'-7"	2'-6"	2'-7"			5.5"	3.75"								
SBE10	17	5	10'-3"	T1	181.7	5.5"	1'-4"	3'-4"	1'-4"	3'-4"		5.5"	3.75"								
SBE11	17	5	17'-5"	STR	308.8																
SBE12	5	5	3'-11"	STR	20.4																
SBE13	10	5	4'-4"	STR	45.2																
TOTAL FOR PLACEMENT 2:					954	LBS.															



MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
BEGIN LOWER PILE CAP (STAGE 2) - PLACEMENT 3																					
SBE14	11	5	12'-5"	T1	142.5	5.5"	3'-1"	2'-8"	3'-1"	2'-8"		5.5"	3.75"								
SBE15	14	5	10'-0"	STR	146.0																
6BE16	6	6	9'-9"	STR	87.9																
SBE17	9	5	11'-1"	S3	104.0	5.5"	3'-10"	2'-6"	3'-10"			5.5"	3.75"								
SBE18	3	5	12'-9"	S3	39.9	5.5"	4'-6"	2'-10"	4'-6"			5.5"	3.75"								
TOTAL FOR PLACEMENT 3:					521	LBS.															

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
BEGIN UPPER PILE CAP (STAGE 2) - PLACEMENT 4																					
SBE19	4	5	19'-5"	T1	81.0	5.5"	6'-0"	3'-3"	6'-0"	3'-3"		5.5"	3.75"								
SBE20	14	5	12'-5"	16	181.3	6"	2'-7"	6'-0"	3'-4"				3'-4"			0'					
SBE21	3	5	10'-3"	S3	32.1	5.5"	3'-3"	2'-10"	3'-3"			5.5"	3.75"								
SBE22	14	5	8'-7"	S3	125.3	5.5"	2'-7"	2'-6"	2'-7"			5.5"	3.75"								
SBE23	17	5	10'-3"	T1	181.7	5.5"	1'-4"	3'-4"	1'-4"	3'-4"		5.5"	3.75"								
SBE24	17	5	15'-3"	STR	270.4																
SBE25	5	5	6'-7"	STR	34.3																
SBE26	5	5	4'-4"	STR	22.6																
TOTAL FOR PLACEMENT 4:					929	LBS.															

**NOTES:**

- ALL REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL BE EPOXY-COATED AND PAID UNDER ITEM 556.0202.

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON:  ALTERED BY:  
 ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
	OVER FIVE MILE CREEK					
	TOWN OF TICONDEROGA					
COUNTY: ESSEX	REGION: 1	BAR LIST (1 OF 2)		DRAWING NO. ST-18 SHEET NO. 26		
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.						 GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS  TOWN OF TICONDEROGA



MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
END LOWER PILE CAP (STAGE 1) - PLACEMENT 5																					
SEE01	19	5	12'-5"	T1	246.1	5.5"	3'-1"	2'-8"	3'-1"	2'-8"		5.5"	3.75"								
SEE02	14	5	17'-10"	STR	260.4																
6EE03	6	6	17'-10"	STR	160.7																
SEE04	16	5	11'-1"	S3	185.0	5.5"	3'-10"	2'-6"	3'-10"			5.5"	3.75"								
SEE05	3	5	12'-9"	S3	39.9	5.5"	4'-6"	2'-10"	4'-6"			5.5"	3.75"								
TOTAL FOR PLACEMENT 5: 893 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
END UPPER PILE CAP (STAGE 1) - PLACEMENT 6																					
SEE06	4	5	19'-5"	T1	81.0	5.5"	6'-0"	3'-3"	6'-0"	3'-3"		5.5"	3.75"								
SEE07	13	5	12'-5"	16	168.4	6"	2'-7"	6'-0"	3'-4"				3'-4"			0"			6'-0"		
SEE08	3	5	10'-3"	S3	32.1	5.5"	3'-3"	2'-10"	3'-3"			5.5"	3.75"								
SEE09	13	5	8'-7"	S3	116.4	5.5"	2'-7"	2'-6"	2'-7"			5.5"	3.75"								
SEE10	17	5	10'-3"	T1	181.7	5.5"	1'-4"	3'-4"	1'-4"	3'-4"		5.5"	3.75"								
SEE11	17	5	17'-5"	STR	308.8																
SEE12	5	5	3'-11"	STR	20.4																
SEE13	10	5	4'-4"	STR	45.2																
TOTAL FOR PLACEMENT 6: 954 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
END LOWER PILE CAP (STAGE 2) - PLACEMENT 7																					
SEE14	11	5	12'-5"	T1	142.5	5.5"	3'-1"	2'-8"	3'-1"	2'-8"		5.5"	3.75"								
SEE15	14	5	10'-0"	STR	146.0																
6EE16	6	6	9'-9"	STR	87.9																
SEE17	9	5	11'-1"	S3	104.0	5.5"	3'-10"	2'-6"	3'-10"			5.5"	3.75"								
SEE18	3	5	12'-9"	S3	39.9	5.5"	4'-6"	2'-10"	4'-6"			5.5"	3.75"								
TOTAL FOR PLACEMENT 7: 521 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
END UPPER PILE CAP (STAGE 2) - PLACEMENT 8																					
SEE19	4	5	19'-5"	T1	81.0	5.5"	6'-0"	3'-3"	6'-0"	3'-3"		5.5"	3.75"						6'-0"		
SEE20	14	5	12'-5"	16	181.3	6"	2'-7"	6'-0"	3'-4"				3'-4"			0"					
SEE21	3	5	10'-3"	S3	32.1	5.5"	3'-3"	2'-10"	3'-3"			5.5"	3.75"								
SEE22	14	5	8'-7"	S3	125.3	5.5"	2'-7"	2'-6"	2'-7"			5.5"	3.75"								
SEE23	17	5	10'-3"	T1	181.7	5.5"	1'-4"	3'-4"	1'-4"	3'-4"		5.5"	3.75"								
SEE24	17	5	15'-3"	STR	270.4																
SEE25	5	5	6'-7"	STR	34.3																
SEE26	5	5	4'-4"	STR	22.6																
TOTAL FOR PLACEMENT 8: 929 LBS.																					

**NOTES:**

- ALL REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL BE EPOXY-COATED AND PAID UNDER ITEM 556.0202.

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: \_\_\_\_\_  
 ALTERED BY:  
 ON: \_\_\_\_\_



AS-BUILT REVISIONS  
 DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT  
 OVER FIVE MILE CREEK  
 TOWN OF TICONDEROGA  
 COUNTY: ESSEX REGION: 1

PIN 1761.09  
 BRIDGES  
 CULVERTS

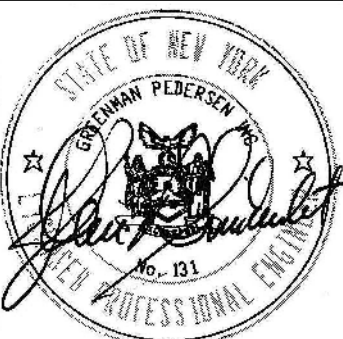
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED  
 BAR LIST  
 (2 OF 2)

CONTRACT NUMBER  
 D036296  
 DRAWING NO. ST-19  
 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.



ESTIMATE OF QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	ESTIMATE	FINAL
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	1	
203.07	SELECT GRANULAR FILL	CY	25	
203.25	SAND BACKFILL	CY	9	
206.01	STRUCTURE EXCAVATION	CY	745	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	35	
209.13	SILT FENCE - TEMPORARY	LF	300	
304.12	SUBBASE COURSE, TYPE 2	CY	70	
402.128304	12.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	29	
402.198904	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	5	
402.378904	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	7	
407.0103	STRAIGHT TACK COAT	GAL	16	
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	315	
552.11	PERMANENT STEEL SHEETING	SF	1,540	
554.40	FILL TYPE RETAINING WALL (0 - 6FT)	SF	90	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	78	
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	LB	6,600	
556.03	STUD SHEAR CONNECTORS FOR BRIDGES	EA	66	
563.07	INSTALLATION OF STORED PREFABRICATED BRIDGE UNITS	EA	2	
564.0501	STRUCTURAL STEEL, TYPE 1	LS	1	
564.2001001	HOT-DIP GALVANIZING OF STRUCTURAL STEEL	LB	3,000	
568.50	STEEL BRIDGE RAILING (TWO-RAIL)	LF	111	
568.70	TRANSITION BRIDGE RAILING	LF	128	
584.50010018	THIN POLYMER (EPOXY) OVERLAYS FOR STRUCTURAL SLABS	SF	1,092	
586.10	FIELD DRILL HOLES IN EXISTING STRUCTURAL STEEL	EA	80	
606.10	BOX BEAM GUIDE RAILING	LF	24	
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF	60	
606.120101	BOX BEAM END PIECE	EA	1	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE IIA	EA	3	
606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	LF	355	
610.1402	TOPSOIL -ROADSIDE	CY	10	
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	45	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.1713	TEMPORARY POSITIVE BARRIER - CATEGORY 3 (PINNING PROHIBITED)	LF	700	
620.03	STONE FILLING (LIGHT)	CY	37	
620.04	STONE FILLING (MEDIUM)	CY	70	
625.01	SURVEY OPERATIONS	LS	1	
627.50140008	CUTTING PAVEMENT	LF	100	
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	3	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	1,000	
646.23	LARGE SNOWPLOWING DELINEATOR	EA	12	
646.32	STEEL POST, 2.0 LB/FT	EA	8	
663.0408	PLASTIC WATER PIPE, 8"	LF	25	
663.0508	BRIDGE MOUNTED WATER PIPE, 8"	LF	60	
663.1808	BOLTED SLEEVE TYPE COUPLING, 8"	EA	2	
663.240803	INSULATION FOR BURIED WATER PIPE (8" WITH 3 IN THICK INSULATION)	LF	25	
663.29010407	TEMPORARY WATER MAIN - 04 NPS	LF	125	
663.4104	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 4"	LF	85	
697.03	FIELD CHANGE PAYMENT	DC	24,000	
698.04	ASPHALT PRICE ADJUSTMENT	DC	100	
698.05	FUEL PRICE ADJUSTMENT	DC	100	
699.040001	MOBILIZATION	LS	1	

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON:	ALTERED BY: ON:
	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
ESTIMATE OF QUANTITIES					DRAWING NO. EQQ-1 SHEET NO. 28	
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.					