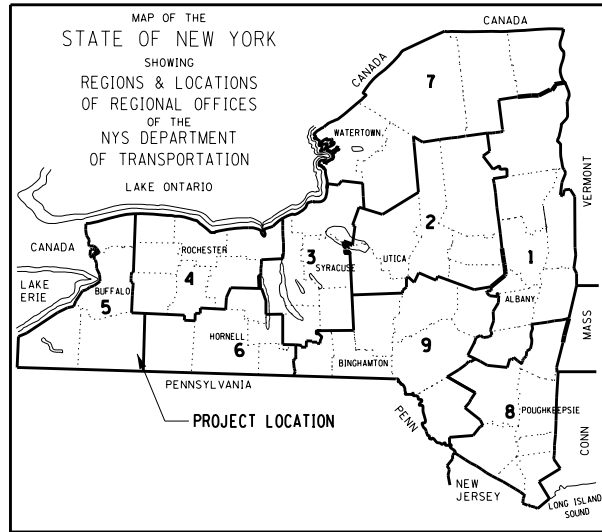


PROJECT MANAGER B. MILLER
 CHECK J. KANIECKI
 DRAFTING V. GREGG
 CHECK J. KANIECKI
 DESIGN W. KANIECKI
 JOB MANAGER D. KAMINSKI
 DESIGN SUPERVISOR T. HOWLAND

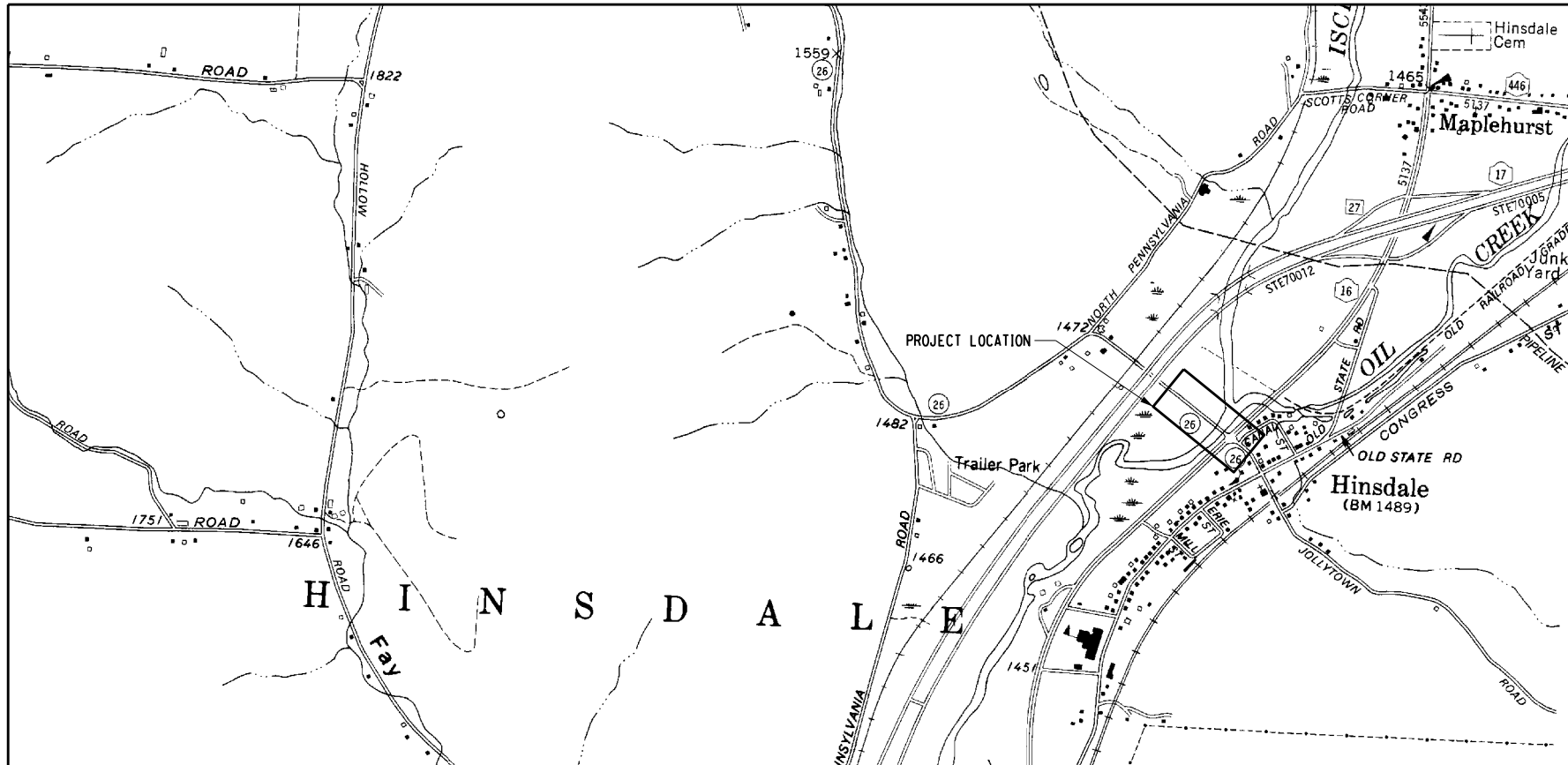


REPLACEMENT OF HINSDALE BRIDGE 62 COUNTY ROAD 26 (GILE HOLLOW ROAD) OVER OLEAN CREEK TOWN OF HINSDALE, CATTARAUGUS COUNTY, NEW YORK BIN 3321770

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

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

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



PROJECT LOCATION
 BIN 3321770 CARRIES COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 IN THE TOWN OF HINSDALE, CATTARAUGUS COUNTY

RECOMMENDED BY

TIMOTHY J. HOWLAND, P.E.
 N.Y.S. LICENSE NO. 083472
 LABELLA ASSOCIATES, D.P.C.

10/24/19
DATE

APPROVED BY

KATHLEEN M. ELLIS, COMMISSIONER
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

10/24/19
DATE

REPLACEMENT OF HINSDALE BRIDGE 62		
COUNTY ROAD 26 (GILE HOLLOW ROAD)		
OVER OLEAN CREEK		
BIN 3321770		
REGION: 5		COUNTY: CATTARAUGUS
FED. ROAD REG. NO.	STATE	SHEET NO.
	N.Y.	1

INDEX ON SHEET NO. 2

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

INDEX		TOTAL NUMBER OF SHEETS	60
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER	
1	TITLE SHEET	COVER	
2	INDEX AND ABBREVIATIONS	IND-1	
3 TO 4	POINT AND LINE SYMBOLOLOGY	LEG-1 TO LEG-2	
5 TO 6	HIGHWAY TYPICAL SECTIONS	TYP-1 TO TYP-2	
7	EXISTING BRIDGE SECTIONS	TYP-3	
8	BRIDGE AND APPROACH SECTIONS	TYP-4	
9	WORK ZONE TRAFFIC CONTROL GENERAL NOTES	WZTC-1	
10 TO 11	WORK ZONE TRAFFIC CONTROL PLAN	WZTC-2 TO WZTC-3	
12	GEOMETRY PLAN	GEO-1	
13	BASELINE TIES AND BENCHMARK TABLE	GEO-2	
14 TO 15	SUBSURFACE BORING LOG	SBL-1 TO SBL-2	
16	MISCELLANEOUS TABLES AND DETAILS	MST-1	
17 TO 18	MISCELLANEOUS DETAILS	MSD-1 TO MSD-2	
19 TO 21	TEMPORARY EROSION AND SEDIMENT CONTROL NOTES AND PLANS	ECP-1 TO ECP-3	
22 TO 23	GENERAL PLAN	GP-1 TO GP-2	
24	ROADWAY PROFILE	PR-1	
25 TO 27	SIGNING AND STRIPING PLANS	PMP-1 TO PMP-3	
28 TO 60	BRIDGE PLANS	ST-01 TO ST-33	

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

NO.	REVISION	BY	DATE
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PROJECT/CLIENT
**HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK**
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
INDEX AND ABBREVIATIONS

PROJECT NUMBER
2181139
 DATE
OCTOBER 2019
 DRAWING NUMBER
IND-1

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 PROJECT MANAGER:

BRM ENGINEER: TUH DESIGNER: VLG

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

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

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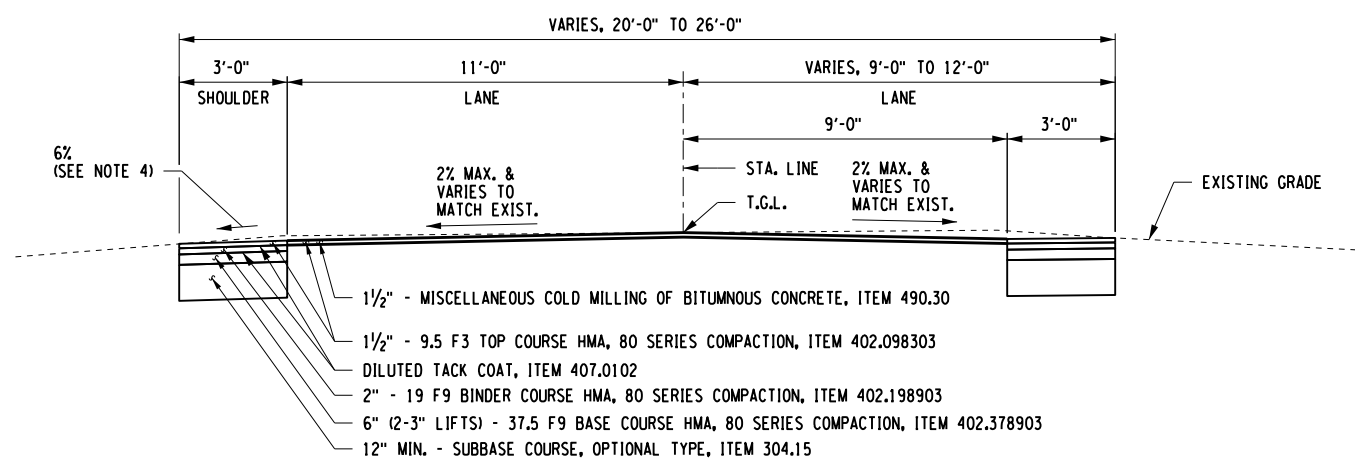
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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
LINE SYMBOLOGY

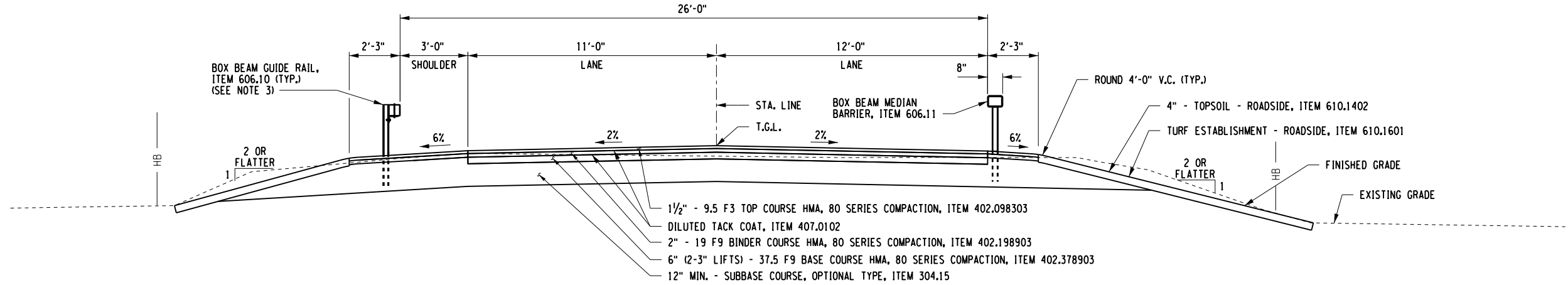
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 DATE
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 DRAWING NUMBER
 LEG-2

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 DESIGNER: VLG
 ENGINEER: TUH

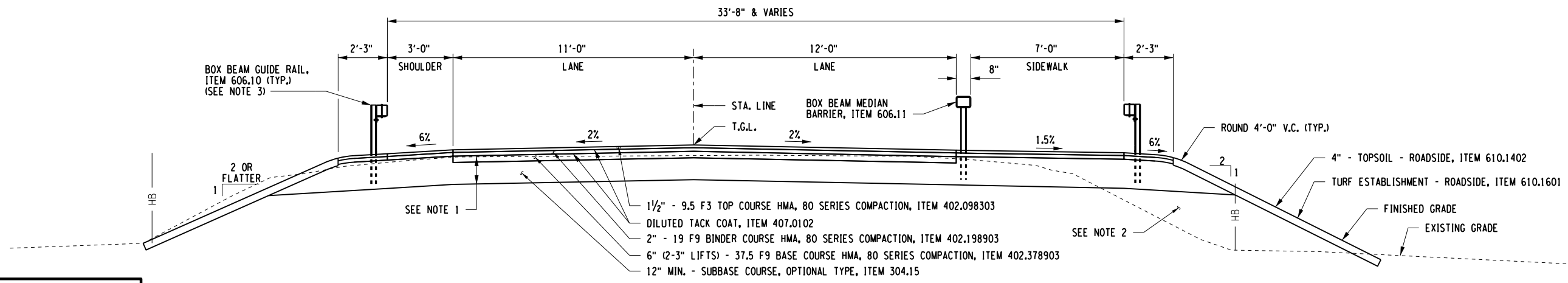


TYPICAL MILL HIGHWAY SECTION
 STA. G 15+00.00 TO G 15+50.00
 (LOOKING UPSTATION)
 SCALE: 3/16" = 1'-0"

- NOTES:**
1. EXCAVATION INCLUDED UNDER STRUCTURE EXCAVATION LAYBACK LIMITS, ITEM 206.01 AND UNCLASSIFIED EXCAVATION AND DISPOSAL, ITEM 203.02.
 2. BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION, ITEM 206.01
 3. CONTRACTOR MUST USE VIBRATORY HAMMER TO INSTALL POST THROUGH ASPHALT SHOULDER.
 4. SHOULDER CROSS SLOPE 6% MAX. AND VARIES TO MATCH EXISTING.



TYPICAL FULL DEPTH HIGHWAY SECTION
 STA. G15+50.00 TO G 17+04.84
 (LOOKING UPSTATION)
 SCALE: 3/16" = 1'-0"



TYPICAL FULL DEPTH HIGHWAY SECTION
 STA. G 17+04.84 TO G 17+37.93
 STA. G 19+13.59 TO G 19+71.20
 (LOOKING UPSTATION)
 SCALE: 3/16" = 1'-0"

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 PROJECT MANAGER:

BRM
 ENGINEER:
 TUH
 DESIGNER:
 VLG



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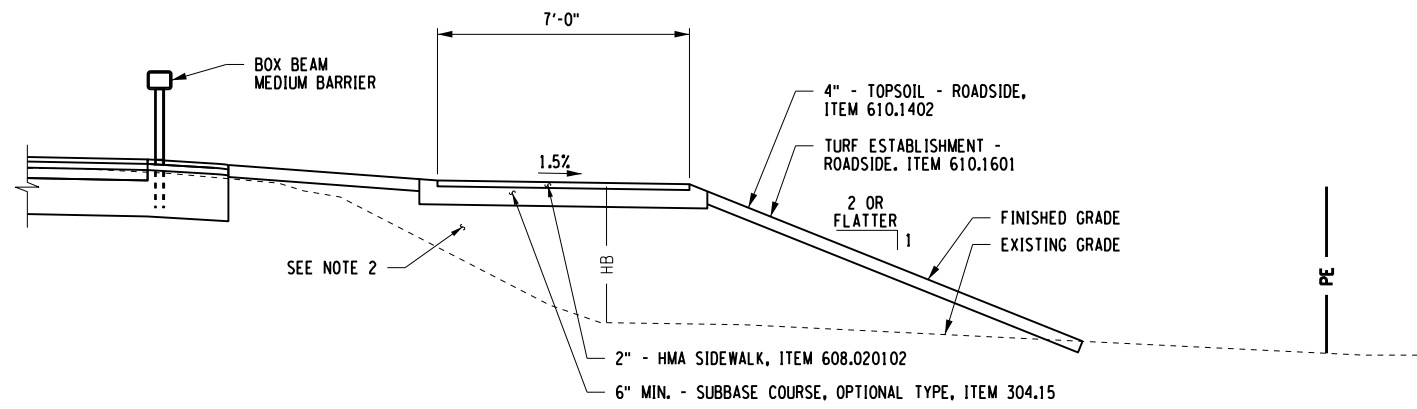


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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
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 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
 HIGHWAY TYPICAL SECTIONS
 (1 OF 2)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 TYP-1



TYPICAL PEDESTRIAN RAMP SECTION

(LOOKING UPSTATION)
SCALE: 3/16" = 1'-0"

SEE NOTE 2

PE

VLC

DESIGNER:

TJH

ENGINEER:

BRM

PROJECT MANAGER:



NOTES:

- EXCAVATION INCLUDED UNDER STRUCTURE EXCAVATION LAYBACK LIMITS, ITEM 206.01 AND UNCLASSIFIED EXCAVATION AND DISPOSAL, ITEM 203.02.
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION, ITEM 206.01

NO.	REVISION	BY	DATE
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(GILE HOLLOW ROAD) OVER OLEAN CREEK
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TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE

HIGHWAY TYPICAL SECTIONS
(2 OF 2)

PROJECT NUMBER

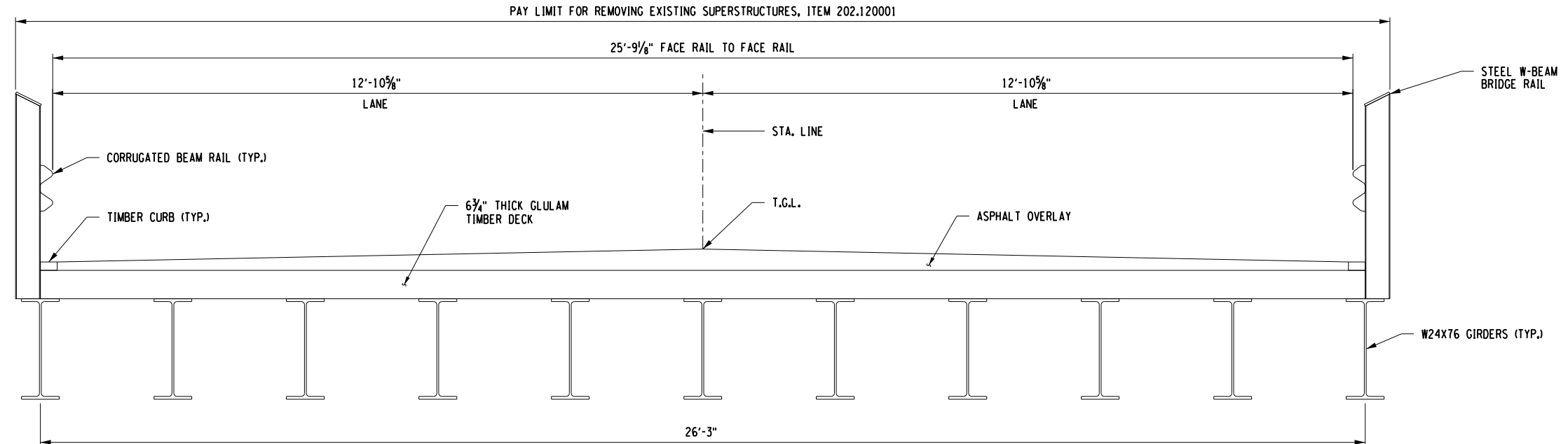
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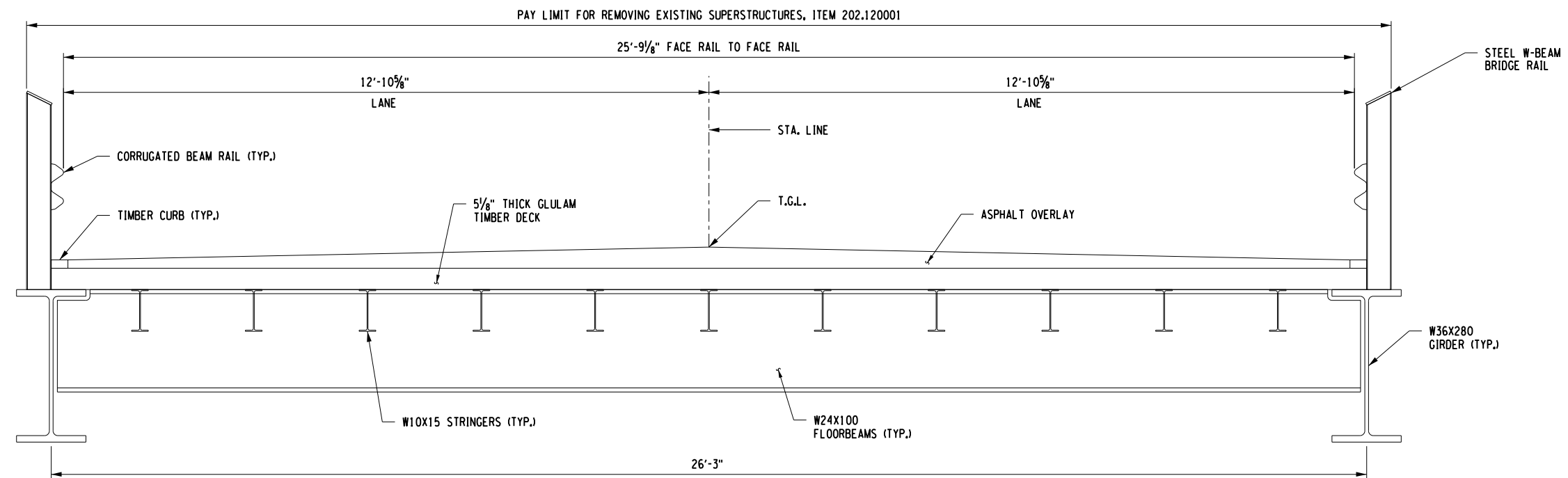
OCTOBER 2019

DRAWING NUMBER

TYP-2



SPAN 1
EXISTING BRIDGE SECTION
(LOOKING UPSTATION)
SCALE: 3/8" = 1'-0"



SPAN 2
EXISTING BRIDGE SECTION
(LOOKING UPSTATION)
SCALE: 3/8" = 1'-0"

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VLG
 DESIGNER:
 TJH
 ENGINEER:
 BRM



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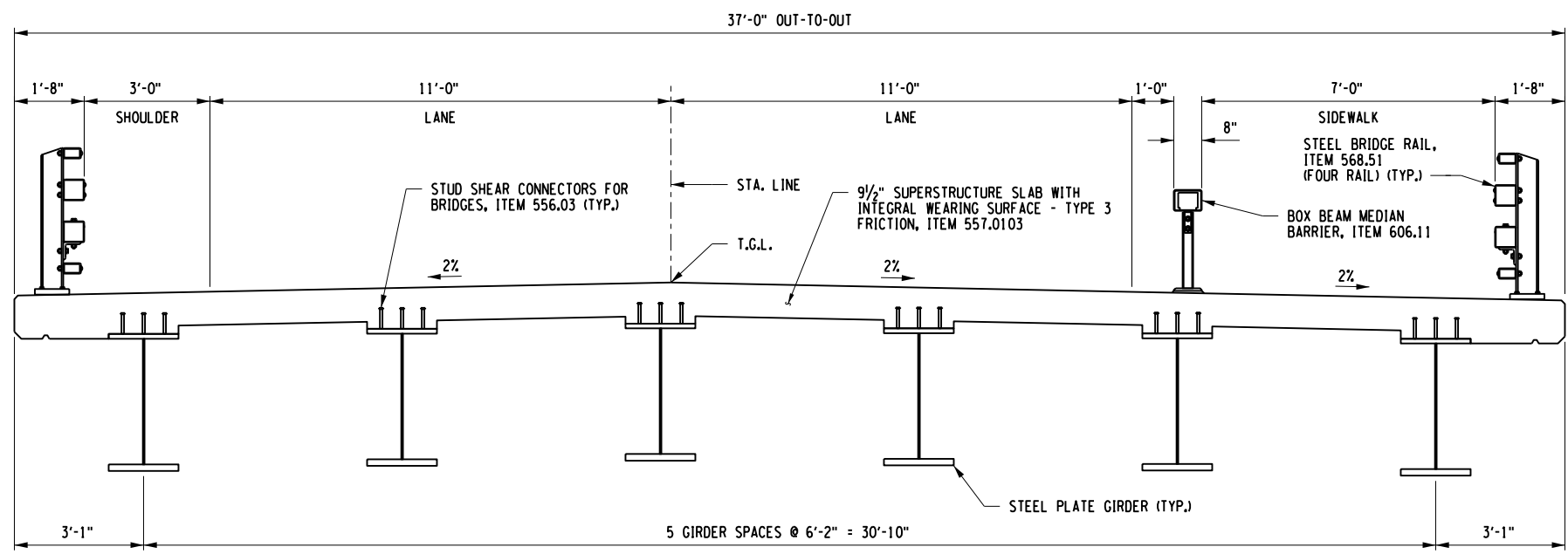
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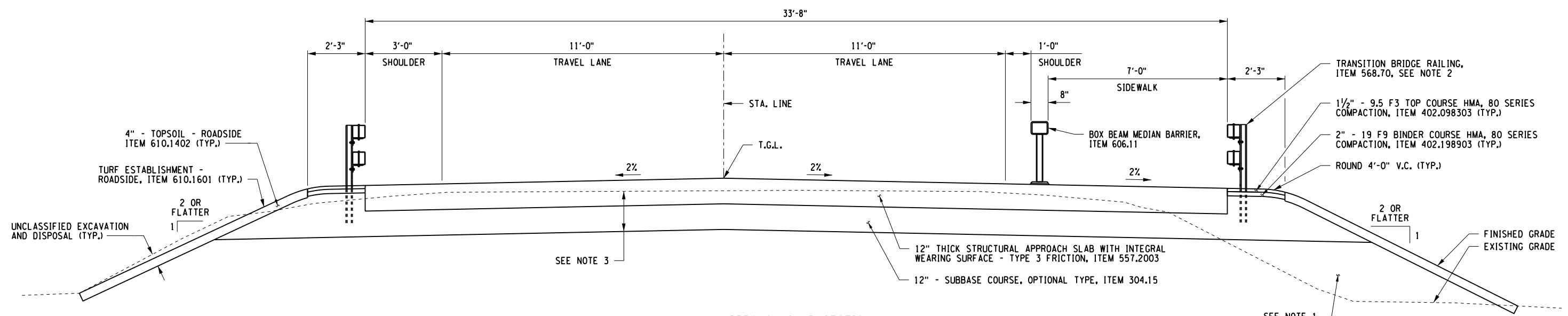
PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
EXISTING BRIDGE SECTIONS
 TYP-3

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 TYP-3



BRIDGE SECTION
(LOOKING UPSTATION)
SCALE: 1/4" = 1'-0"



APPROACH SLAB SECTION
(LOOKING UPSTATION)
SCALE: 1/4" = 1'-0"

- NOTES:**
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION, ITEM 206.01
 - CONTRACTOR MUST USE VIBRATORY HAMMER TO INSTALL POST THROUGH ASPHALT SHOULDER.
 - EXCAVATION INCLUDED UNDER STRUCTURE EXCAVATION LAYBACK LIMITS, ITEM 206.01 AND UNCLASSIFIED EXCAVATION AND DISPOSAL, ITEM 203.02.

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VLG
 DESIGNER:
 TUH
 ENGINEER:
 BRM



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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
BRIDGE AND APPROACH SLAB SECTIONS

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 TYP-4

GENERAL NOTES

1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD REFLECT THE MINIMUM REQUIREMENTS.
2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE COUNTY OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE COUNTY OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE OF NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO THE COUNTY, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

1. THE LOCATIONS OF SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO FINAL APPROVAL BY THE ENGINEER. COST TO BE INCLUDED IN ITEM 619.01.
2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT. COST TO BE INCLUDED IN ITEM 619.01.
3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
5. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE NOTED ON THE PLANS AND DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.
6. SIGNS INFORMING AND DIRECTING PEDESTRIANS SHALL BE ILLUMINATED TO BE VISIBLE AT 50 FEET AND LEGIBLE AT 10 FEET DURING HOURS OF DARKNESS.
7. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

LANE WIDTHS

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

BARRIER/SHADOW VEHICLES

1. BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
2. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).
3. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A BARRIER VEHICLE IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE. TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.

VLG

DESIGNER:

TJH

ENGINEER:

BRM

PROJECT MANAGER:



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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.



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PROJECT/CLIENT

HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE

WORK ZONE TRAFFIC CONTROL
 GENERAL NOTES

PROJECT NUMBER

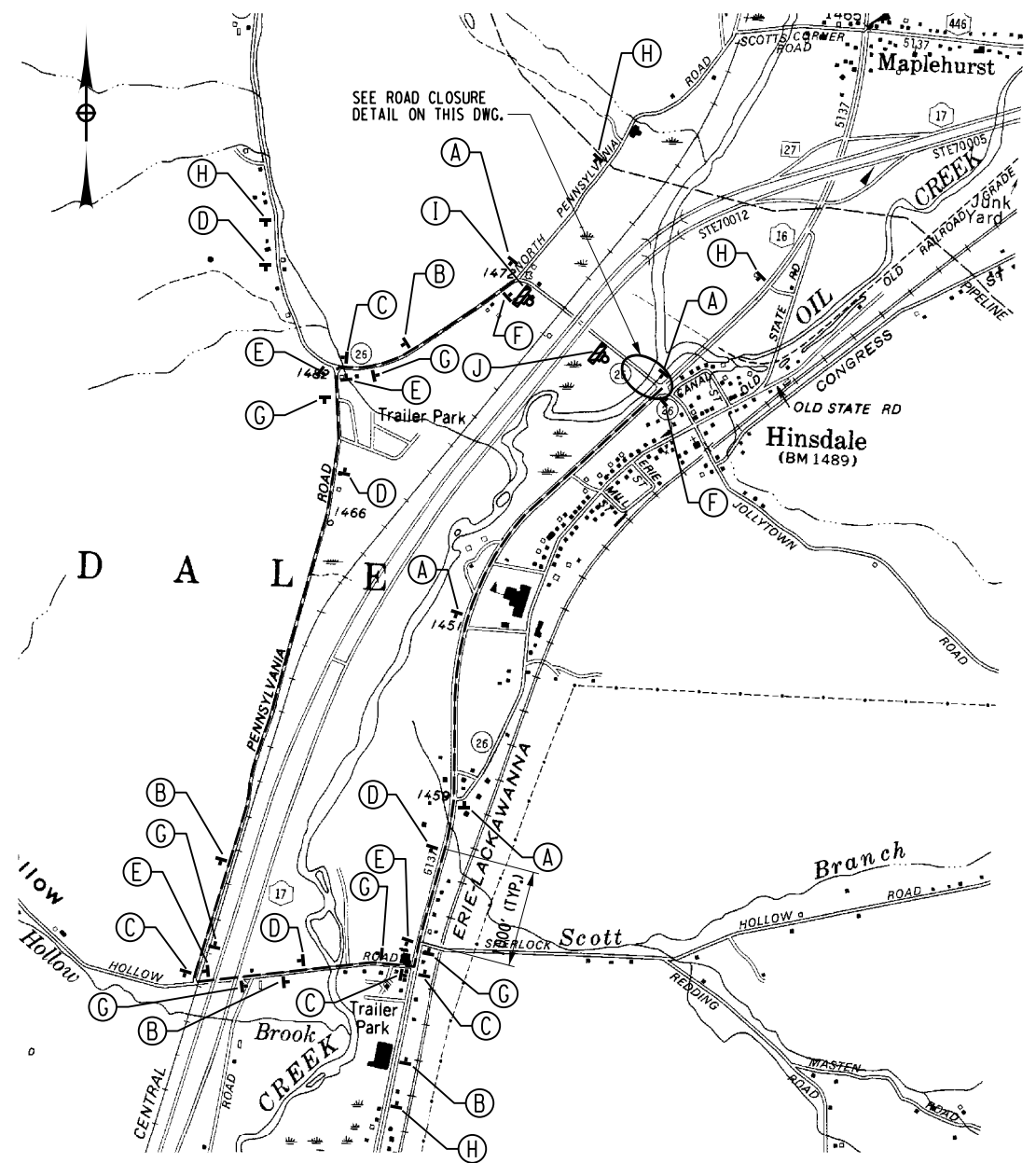
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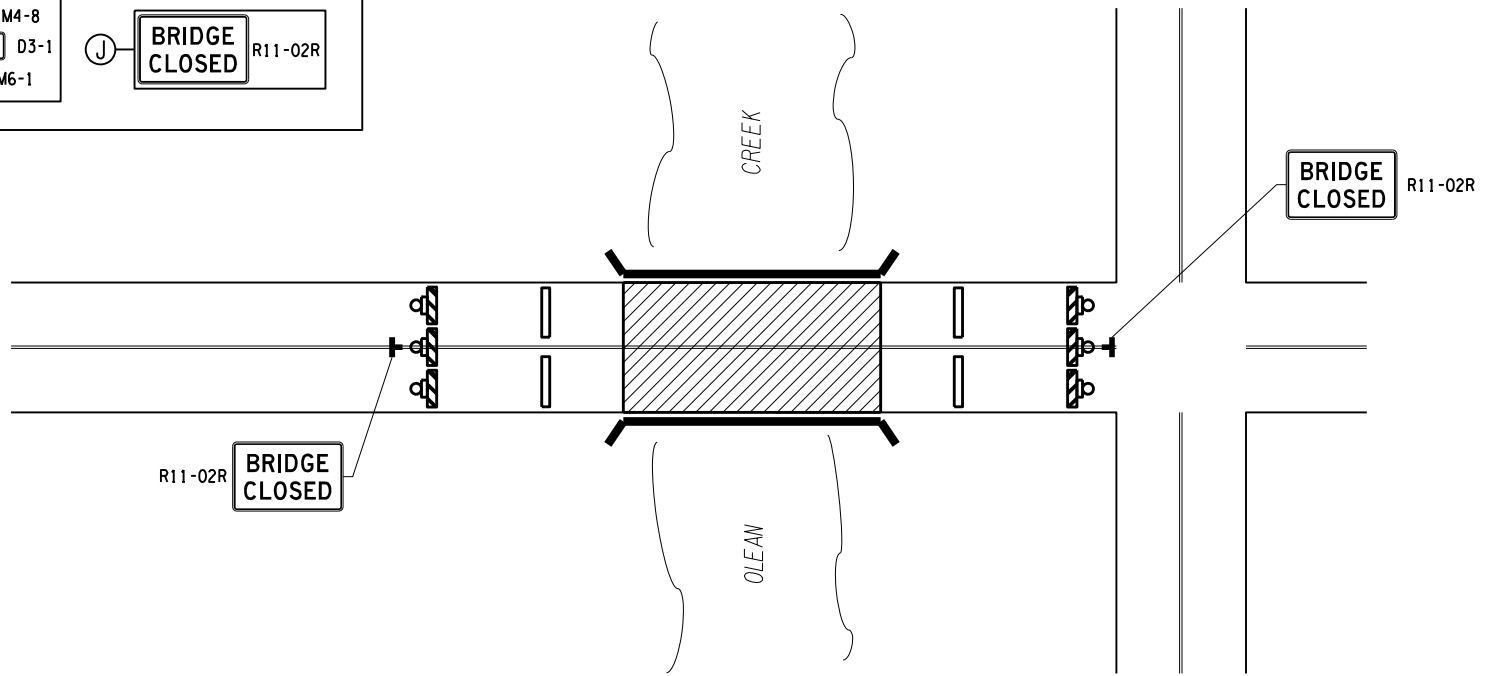
WORK ZONE TRAFFIC CONTROL
NOT TO SCALE

DETOUR SIGN SCHEDULE

A	DETOUR M4-8 Gile Hollow Rd D3-1 ↑ M6-3	F	END DETOUR M4-8a Gile Hollow Rd D3-1
B	DETOUR M4-8 Gile Hollow Rd D3-1 ← M5-1	G	DETOUR M4-8 Gile Hollow Rd D3-1
C	DETOUR M4-8 Gile Hollow Rd D3-1 ← M6-1	H	DETOUR 1500 FT W20-2 Gile Hollow Rd D3-1
D	DETOUR M4-8 Gile Hollow Rd D3-1 ↘ M5-1	I	BRIDGE CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY R11-3a DETOUR M4-10
E	DETOUR M4-8 Gile Hollow Rd D3-1 → M6-1	J	BRIDGE CLOSED R11-02R

PROJECT SPECIFIC NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE COUNTY A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF ANY BRIDGE/ROADWAY CLOSING.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ROAD CLOSURES WITH THE SCHOOL DISTRICT.
3. CONTRACTOR SHALL IMPLEMENT THE ROAD CLOSURE PLAN PRIOR TO ANY WORK BEGINNING. THE SIGN SCHEDULE INDICATED IS A GENERAL PLAN. EXACT SIGN LOCATIONS, AND TIMING OF CONSTRUCTION SIGN INSTALLATION (AND REMOVAL) SHALL BE AS ORDERED BY THE ENGINEER. ADDITIONAL SIGNS MAY BE REQUIRED AS DIRECTED BY THE RESIDENT ENGINEER. DETOUR INSTALLATION AND ROADWAY CLOSURES SHALL BE AS ORDERED BY THE ENGINEER.
4. ALL SIGNS AND EQUIPMENT SHALL BE INSTALLED AS PER AND CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) AND NEW YORK SUPPLEMENT.
5. THE SIGN LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE. THE EXACT LOCATION FOR BEST VISIBILITY SHALL BE DETERMINED BY THE ENGINEER TO ENSURE SIGHT DISTANCE AND VISIBILITY OF EXISTING SIGNS.
6. EXISTING SIGNS WHICH CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE REMOVED, STORED AND RESET OR COVERED A.O.B.E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING SIGNS DUE TO THE REMOVAL, STORAGE, RESETTING OR COVERING OF THE SIGNS. SIGNS WHICH WILL NOT BE RESET, A.O.B.E., SHALL BE DISPOSED OF BY THE CONTRACTOR.
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NYS DOT HIGHWAY WORK PERMIT FOR ALL WORK WITHIN THE NYS RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO LANE CLOSURES AND DETOUR SIGNAGE.



ROAD CLOSURE DETAIL
NOT TO SCALE

WORK ZONE TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
— — — — —	DETOUR ROUTE
+	CONSTRUCTION SIGN, ITEM 619.01
⊞	TYPE III BARRICADE, WITH LIGHTING, ITEM 619.04
⊞	TYPE 'A' FLASHER PAYMENT UNDER ITEM 619.01
▭	TEMPORARY CONCRETE BARRIER (UNPINNED), ITEM 619.1701
W20-2	MUTCD NUMBER
◊	CONSTRUCTION SIGN FACE

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DESIGNER: VLG
 TUH
 ENGINEER: BRM



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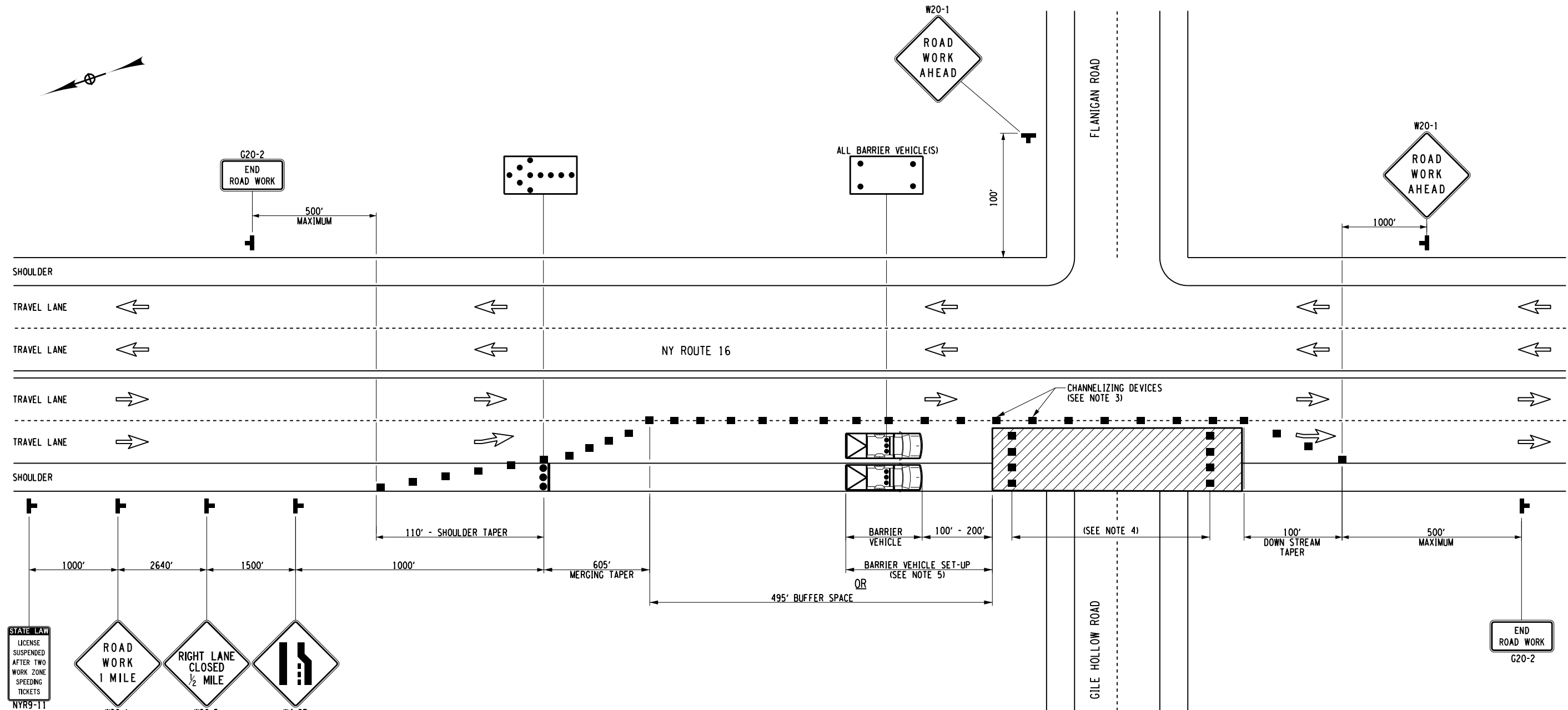


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PROJECT CLIENT
HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
WORK ZONE TRAFFIC CONTROL PLAN
 (1 OF 2)

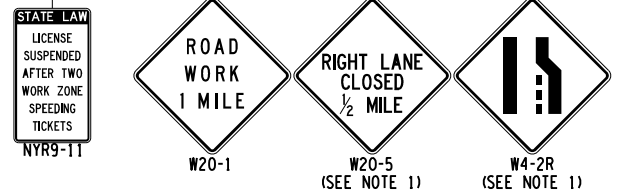
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OCTOBER 2019
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SINGLE LANE CLOSURE
SHORT OR INTERMEDIATE TERM STATIONARY
MULTI LANE HIGHWAY (UNDIVIDED)
(NOT TO SCALE)

NOTES:

- LEFT LANE CLOSURES ARE SYMMETRICAL TO RIGHT LANE CLOSURES. SUBSTITUTE LEFT LANE CLOSED SIGN (W20-5) AND THE CORRESPONDING LANE ENDS SIGN (W4-2L).
- NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
- CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
- TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
- FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
- WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.



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DESIGNER: VLG
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 ENGINEER: BRM



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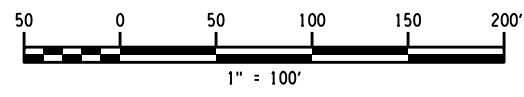
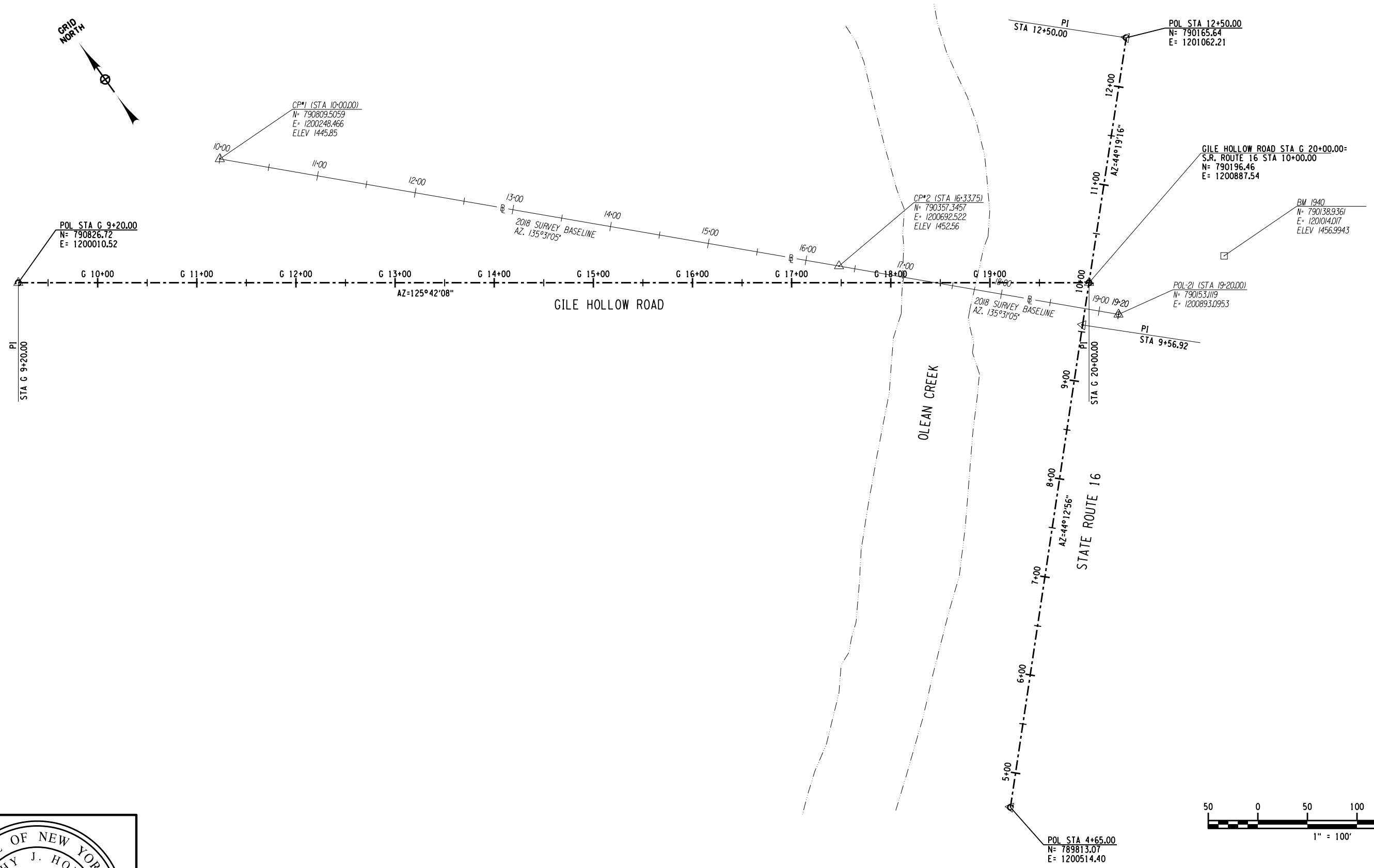


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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
 WORK ZONE TRAFFIC CONTROL PLAN
 (2 OF 2)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 WZTC-3



PROJECT MANAGER: _____
 BRM: _____
 ENGINEER: _____
 TUH: _____
 DESIGNER: _____
 VLG: _____



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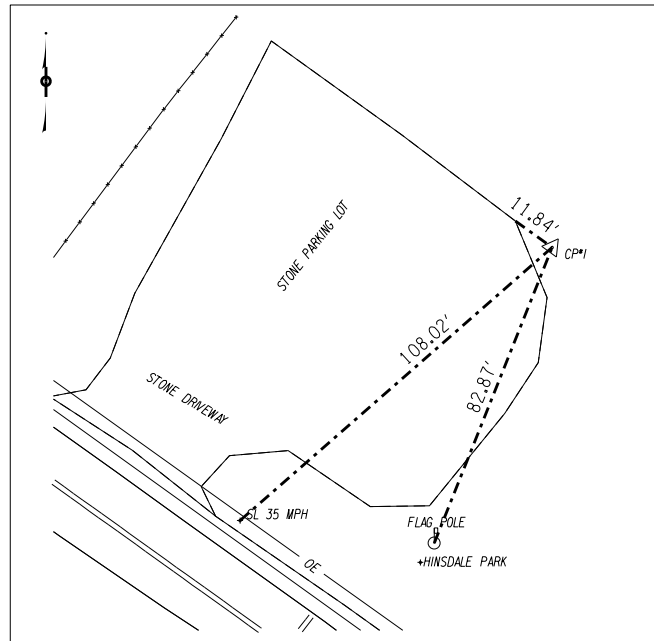
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 HINSDALE BRIDGE 62 COUNTY ROAD 26
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 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
GEOMETRY PLAN

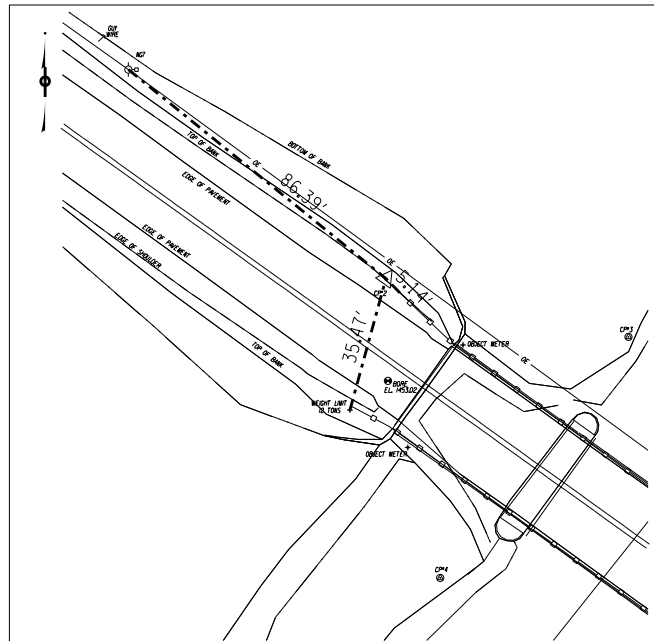
PROJECT NUMBER
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 DATE
 OCTOBER 2019
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 GEO-1



TIES NOT TO SCALE

CP#1 (℄ STA 10+00.00)
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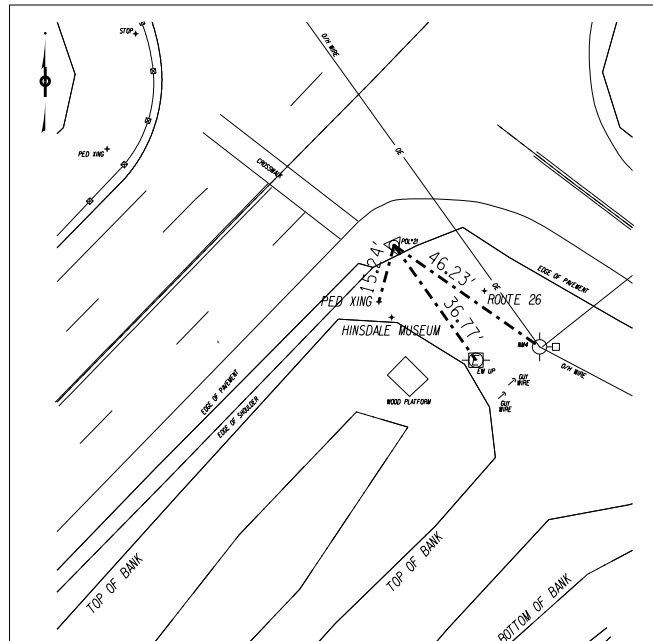
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 E= 1200248.466



TIES NOT TO SCALE

CP#2 (℄ STA 16+33.75)
 SET REBAR AND CAP IN SHOULDER ON THE NORTH SIDE OF GILE HOLLOW ROAD AND SOUTH SIDE OF THE ISCHUA CREEK

NYSPCS N= 790357.346 ZONE: CENTRAL
 E= 1200692.522



TIES NOT TO SCALE

POL 21 (℄ STA 19+20.00)
 SET REBAR AND CAP IN SHOULDER ON THE NORTH SIDE OF GILE HOLLOW ROAD AND SOUTH SIDE OF THE ISCHUA CREEK

NYSPCS N= 790153.112 ZONE: CENTRAL
 E= 1200893.095

GILE HOLLOW ROAD OVER ISCHUA CREEK TABLE OF BENCHMARKS		
BM	DESCRIPTION	ELEV. (FT.)
BM 1940	BOLT IN SOUTHEAST FIRE HYDRANT LOCATED NORTHEAST OF RTE 16 AND FLANICAN ROAD ELEVATED AT TOP OF THE HEAD OF BOLT.	1456.99



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DRAWING TITLE
**BASELINE TIES AND
 BENCHMARK TABLE**

PROJECT NUMBER
2181139
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OCTOBER 2019
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 PROJECT MANAGER: BRM ENGINEER: TUH DESIGNER: VLG

DATE: _____ PROJECT: _____ LOCATION: _____

STARTED: _____ FINISHED: _____ SHEET: _____ OF _____

SJB SERVICES, INC. SUBSURFACE LOG

HOLE NO. _____ SURF. ELEV. _____ G.W. DEPTH _____

PROJECT: PROPOSED BRIDGE REPLACEMENT LOCATION: COUNTY RD 26 HINSDALE, NY

DEPTH (FT)	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	4	5		
0						3" TOPSOIL	
0.5						Brown SILT, some Sand, trace clay, ML (Moist-Loose)	Groundwater at 10' upon completion, and 5' 24 hrs. after completion
1						Gray SHALE, medium hard, weathered, thin bedded, some fractures (numbered features explained on reverse)	Run#1, 2.5'-5.0' S&A Recovery 50% ROD

TABLE I Spill Spoon Sample
TABLE II Identification of soil type...
TABLE III The following terms are used in classifying soil...
TABLE IV The relative compactness or consistency is described...
TABLE V Varved: Horizontal uniform layers...
TABLE VI Rock Classification Term Meaning

DATE: 4/24/2018 PROJECT: PROPOSED BRIDGE REPLACEMENT LOCATION: COUNTY RD 26 HINSDALE, NY

START 4/24/2018 FINISH 4/24/2018 SHEET 1 OF 1

SJB SERVICES, INC. SUBSURFACE LOG

HOLE NO. B-1 SURF. ELEV. _____ G.W. DEPTH See Notes

DEPTH (FT)	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	4	5		
1	1	6	12			ASPHALT / SUBBASE	Driller noted Asphalt and Subbase at the surface
2						Brown and Dark Brown f-c GRAVEL, some f-c Sand, little Silty Clay (moist, FILL)	Becomes Dark Brown
3						Becomes Brown	
4						Contains little f-c Sand	
5						Becomes Brown and Gray	
6						Contains tr. silty clay	
7						Contains little Silty Clay	
15						REF	No Recovery Sample #7
15.0'						Boring Complete with Auger Refusal at 15.0'	No Free Standing Water encountered at Boring Completion

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist
DRILLER: S. WOLKIEWICZ DRILL RIG TYPE: CME-75
METHOD OF INVESTIGATION: ASTM D-1586 USING HOLLOW STEM AUGERS

DATE: 4/24/2018 PROJECT: PROPOSED BRIDGE REPLACEMENT LOCATION: COUNTY RD 26 HINSDALE, NY

START 4/24/2018 FINISH 4/25/2018 SHEET 1 OF 3

SJB SERVICES, INC. SUBSURFACE LOG

HOLE NO. B-1A SURF. ELEV. _____ G.W. DEPTH See Notes

DEPTH (FT)	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	4	5		
1						ASPHALT / SUBBASE	
15						Brown and Gray f-c GRAVEL, some f-c Sand, little Silty Clay (moist, firm, GC-GM)	
20						Brown Silty CLAY, little fine Sand (moist-wet, v stiff, CL)	Contains Silt and Sand partings
25						Gray Clayey SILT and f-c Sand, little fine Gravel (moist-wet, stiff, ML)	WOH = Weight of Hammer and Rods
30						Contains Silty Clay seams (medium)	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist
DRILLER: S. WOLKIEWICZ DRILL RIG TYPE: CME-75
METHOD OF INVESTIGATION: ASTM D-1586 USING HOLLOW STEM AUGERS

DATE: 4/24/2018 PROJECT: PROPOSED BRIDGE REPLACEMENT LOCATION: COUNTY RD 26 HINSDALE, NY

START 4/24/2018 FINISH 4/25/2018 SHEET 2 OF 3

SJB SERVICES, INC. SUBSURFACE LOG

HOLE NO. B-1A SURF. ELEV. _____ G.W. DEPTH See Notes

DEPTH (FT)	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	4	5		
5						Gray Silty CLAY, little fine Sand (moist-wet, soft, CL)	Contains Silt and Sand partings
10						Gray Clayey SILT, little fine Sand (wet, medium, ML)	Becomes Brown
15						Gray f-c SAND, tr. silty clay (wet, firm, SW)	
20						Brown f-c GRAVEL and f-c Sand (wet, loose, GW)	
25						Brown fine SAND, tr. silty clay (wet, loose, SP)	
30						Brown f-c GRAVEL and f-c Sand, tr. silty clay (wet, firm, GW)	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist
DRILLER: S. WOLKIEWICZ DRILL RIG TYPE: CME-75
METHOD OF INVESTIGATION: ASTM D-1586 USING HOLLOW STEM AUGERS

DATE: 4/24/2018 PROJECT: PROPOSED BRIDGE REPLACEMENT LOCATION: COUNTY RD 26 HINSDALE, NY

START 4/25/2018 FINISH 4/25/2018 SHEET 3 OF 3

SJB SERVICES, INC. SUBSURFACE LOG

HOLE NO. B-1A SURF. ELEV. _____ G.W. DEPTH See Notes

DEPTH (FT)	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	4	5		
13						Brown f-c SAND, some fine Gravel, tr. silty clay (wet, compact, SW)	
82.0'						Boring Complete at 82.0'	Free Standing Water recorded at 15' at Boring Completion

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist
DRILLER: S. WOLKIEWICZ DRILL RIG TYPE: CME-75
METHOD OF INVESTIGATION: ASTM D-1586 USING HOLLOW STEM AUGERS

DATE: 4/23/2018 PROJECT: PROPOSED BRIDGE REPLACEMENT LOCATION: COUNTY RD 26 HINSDALE, NY

START 4/24/2018 FINISH 4/24/2018 SHEET 1 OF 3

SJB SERVICES, INC. SUBSURFACE LOG

HOLE NO. B-2 SURF. ELEV. _____ G.W. DEPTH See Notes

DEPTH (FT)	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	4	5		
1						ASPHALT / SUBBASE	Driller noted Asphalt and Subbase at the surface
1.5						Brown f-c GRAVEL, some f-c Sand, little Silty Clay (moist, FILL)	
2						Becomes Gray and Brown, Contains tr. silty clay	
3						Brown and Dark Brown f-c SAND, some Silty Clay, some f-c Gravel (moist, FILL)	
4						Brown, Gray and Dark Brown Silty CLAY and fine Sand, tr. organics (moist-wet, FILL)	
5						Contains tr. gravel	
6						Gray f-c GRAVEL, some f-c Sand, little Silty Clay (wet, loose, GC-GM)	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist
DRILLER: A. KOSKE DRILL RIG TYPE: CME-75
METHOD OF INVESTIGATION: ASTM D-1586 USING HOLLOW STEM AUGERS

DATE: 4/23/2018 PROJECT: PROPOSED BRIDGE REPLACEMENT LOCATION: COUNTY RD 26 HINSDALE, NY

START 4/24/2018 FINISH 4/24/2018 SHEET 2 OF 3

SJB SERVICES, INC. SUBSURFACE LOG

HOLE NO. B-2 SURF. ELEV. _____ G.W. DEPTH See Notes

DEPTH (FT)	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	4	5		
15						(firm)	Driller noted Asphalt and Subbase at the surface
16						Brown f-c SAND, some f-c Gravel, tr. silty clay (wet, firm, SW)	
17						Brown f-c GRAVEL, little f-c Sand, tr. silty clay (wet, firm, GW)	
18						Contains some f-c Sand	
19							
20						Contains little f-c Sand	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist
DRILLER: A. KOSKE DRILL RIG TYPE: CME-75
METHOD OF INVESTIGATION: ASTM D-1586 USING HOLLOW STEM AUGERS

DATE: 4/23/2018 PROJECT: PROPOSED BRIDGE REPLACEMENT LOCATION: COUNTY RD 26 HINSDALE, NY

START 4/24/2018 FINISH 4/24/2018 SHEET 2 OF 3

SJB SERVICES, INC. SUBSURFACE LOG

HOLE NO. B-2 SURF. ELEV. _____ G.W. DEPTH See Notes

DEPTH (FT)	BLOWS ON SAMPLER					SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	3	4	5		
15						(firm)	Driller noted Asphalt and Subbase at the surface
16						Brown f-c SAND, some f-c Gravel, tr. silty clay (wet, firm, SW)	
17						Brown f-c GRAVEL, little f-c Sand, tr. silty clay (wet, firm, GW)	
18						Contains some f-c Sand	
19							
20						Contains little f-c Sand	

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist
DRILLER: A. KOSKE DRILL RIG TYPE: CME-75
METHOD OF INVESTIGATION: ASTM D-1586 USING HOLLOW STEM AUGERS

NOTE:
1. SEE SBL-2 FOR NOTES.

NO.	REVISION	BY	DATE
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PROJECT/CLIENT
HINSDALE BRIDGE 62 COUNTY ROAD 26
(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
SUBSURFACE BORING LOG

PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
SBL-1

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PROJECT MANAGER:

VLG
 DESIGNER:
 TUH
 ENGINEER:
 BRM

GUIDE RAILING TABLE													
ITEM NO.	DESCRIPTION												
606.10	BOX BEAM GUIDE RAILING												
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)												
606.11	BOX BEAM MEDIAN BARRIER												
606.110002	BOX BEAM MEDIAN BARRIER (SHOP BENT OR SHOP MITERED)												
606.120101	BOX BEAM END PIECE												
606.120102	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE I												
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA												
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING												
606.7910	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER												
CENTERLINE STATION	FROM	TO	SIDE	606.10 (LF)	606.100002 (LF)	606.11 (LF)	606.110002 (LF)	606.120101 (EA)	606.120102 (EA)	606.120201 (EA)	606.71 (LF)	606.7910 (EA)	COMMENTS
G 15+77.01	G 16+00.76		LT						1				
G 15+74.21	G 15+97.92		RT						1				
G 16+00.76	G 17+23.76		LT	123.00									
G 15+97.92	G 19+20.27		RT			322.35							
G 17+13.55	G 17+20.78		RT					1					
G 17+20.78	G 17+23.76		RT	3.00									
G 19+20.27	G 19+48.10		RT				31.93						RADIUS 35.49'
G 19+48.10	G 19+52.90		RT					1					
G 19+27.76	G 19+37.76		LT	10.00									
G 19+37.76	G 19+76.85		LT		55.74								RADIUS 39.59'
G 19+27.80	G 19+41.09		RT		15.90								RADIUS 27.83'
G 19+41.09	G 19+53.05		RT	17.38									
G 19+53.05	G 19+59.68		RT		22.35								RADIUS 25.00'
8+35.36	9+12.41		LT						1				
9+12.41	9+32.49		LT	20.08									
10+43.16	11+19.10		LT	75.94									
11+19.10	11+96.55		LT						1				
G 17+52.81	11+46.74		LT							340.97			
G 17+59.87	8+78.53		RT							285.09			
11+46.74	11+83.18		LT									1	
8+42.88	8+78.83		LT									1	
TOTAL				249.40	93.99	322.35	31.93	2	2	2	626.06	2	

SAWCUT TABLE		
ITEM NO.	DESCRIPTION	
627.50140008	CUTTING PAVEMENT	
CENTERLINE STATION	SIDE	627.50140008 (LF)
G 15+50.00	---	20.29
G 19+71.20	---	111.10
TOTAL		131.39

NOTE:
1. ALL OTHER LOCATIONS REQUIRING PAVEMENT TO BE CUT SHALL BE NEAT CUT AT THE SATISFACTION OF THE RESIDENT ENGINEER. PAYMENT FOR NEAT CUT AT ALL OTHER LOCATIONS SHALL BE INCLUDED IN BID FOR THE VARIOUS CONTRACT ITEMS.

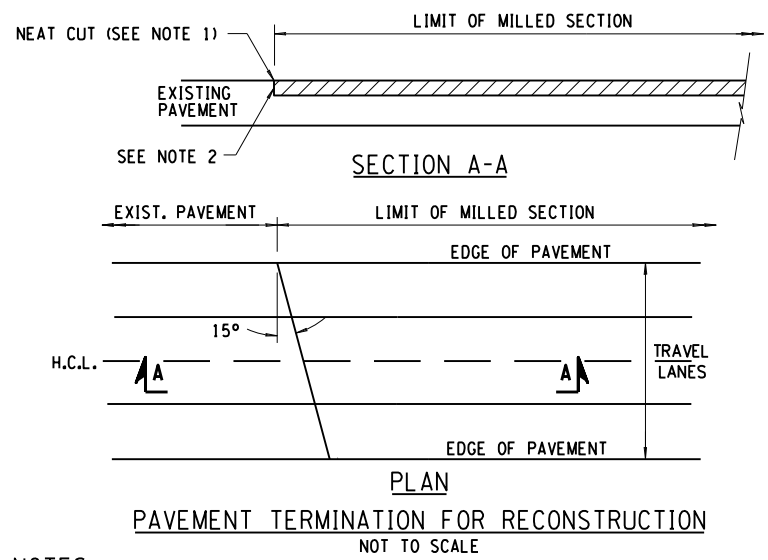
DETECTABLE WARNING UNIT TABLE					
ITEM NO.	DESCRIPTION				
608.21	EMBEDDED DETECTABLE WARNING UNITS				
STATION	SIDE	WIDTH	LENGTH	608.21 (SY)	
G 19+50.00	RT	2.0	5.0	1.1	
TOTAL					1.1

REFERENCE MARKER TABLE				
ITEM NO.	DESCRIPTION			
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTAL SNOWPLOWING MARKER PANELS			
646.32	STEEL POST, 2.0 LB/FT			
STATION	SIDE	646.22 (EA)	646.32 (EA)	COMMENT
G 15+97.00	RT	2	1	DOUBLE GREEN MARKER
G 16+00.00	LT	1	1	SINGLE GREEN MARKER
G 17+20.00	LT	1	1	SINGLE SUPPLEMENTARY MARKER
G 17+76.00	RT	1	1	SINGLE SUPPLEMENTARY MARKER
G 18+96.00	LT	1	1	SINGLE SUPPLEMENTARY MARKER
G 19+43.00	RT	1	1	SINGLE SUPPLEMENTARY MARKER
9+13.00	LT	1	1	SINGLE GREEN MARKER
11+20.00	LT	2	1	DOUBLE GREEN MARKER
TOTAL		10	8	

SIGN RELOCATION TABLE					
ITEM NO.	DESCRIPTION				
645.81	TYPE A SIGN POST				
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE 1 (UNDER 30 SQUARE FEET)				
STATION	OFFSET	SIDE	645.81 (EA)	647.32 (EA)	SIGN DESCRIPTION
G 19+46.77	37.15	LT	1	1	FISHING ACCESS
G 19+52.40	35.85	LT	1	1	METHODIST CHURCH
9+38.62	36.81	LT	1	1	PED XING
10+49.19	32.07	LT	1	1	PED XING
TOTAL			4	4	

SIGN REMOVAL TABLE					
ITEM NO.	DESCRIPTION				
647.61	REMOVE AND DISPOSE GROUND MOUNTED TYPE A SIGN SUPPORT(S), FOUNDATIONS AND ANY ATTACHED SIGNS - (UNDER 30 SQUARE FEET)				
STATION	OFFSET	SIDE	647.61 (EA)	SIGN DESCRIPTION	
G 15+91.93	18.9	RT	1	STOP AHEAD	
G 17+60.09	16.42	RT	1	WEIGHT LIMIT 12 TONS	
G 17+78.02	15.51	RT	1	OBJECT MARKER	
G 17+74.10	14.54	LT	1	OBJECT MARKER	
G 18+71.67	15.36	RT	1	OBJECT MARKER	
G 18+72.79	14.65	LT	1	OBJECT MARKER	
G 18+86.93	13.59	LT	1	WEIGHT LIMIT 12 TONS	
G 18+92.77	14.72	LT	1	SPEED LIMIT 35 MPH	
G 19+02.89	17.46	LT	1	PED XING	
G 19+43.02	26.48	RT	1	STOP	
G 19+47.15	19.48	LT	1	CATT CNTY 26	
G 19+52.02	22.35	LT	1	GILE HOLLOW RD	
8+62.38	33.96	LT	1	SOUTH 16	
11+20.73	40.20	LT	1	HINSDALE	
TOTAL			14		

MISC. COLD MILLING TABLE			
ITEM NO.	DESCRIPTION		
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE		
STATION	LENGTH	WIDTH	490.30 (SY)
G 15+00.00 TO G 15+50.00	50.0'	20.3'	112.8
TOTAL			112.8



- NOTES:
- THE COST OF THE NEAT CUT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 402.098303, 9.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION.
 - ALL SEAMS BETWEEN EXISTING AND NEW ASPHALT SURFACES SHALL BE SEALED WITH AN ASPHALT FILLER CORRESPONDING TO THE MATERIAL REQUIREMENTS OF NYSDOT MATERIAL DESIGNATION 702-05 OR 702-3401. THE COST TO BE INCLUDED IN THE VARIOUS ASPHALT ITEMS IN THE CONTRACT.



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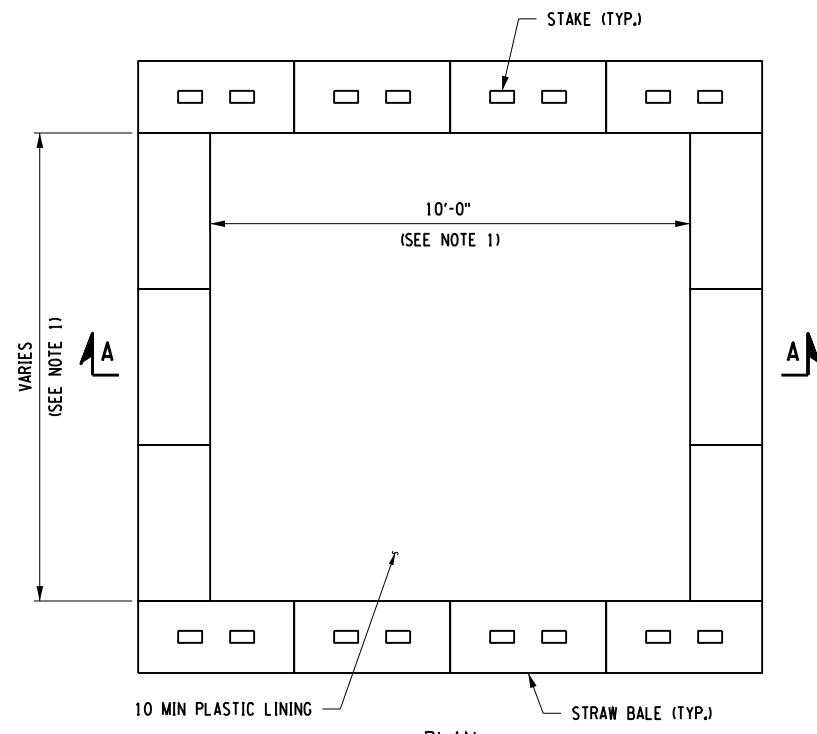
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PROJECT/CLIENT
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TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

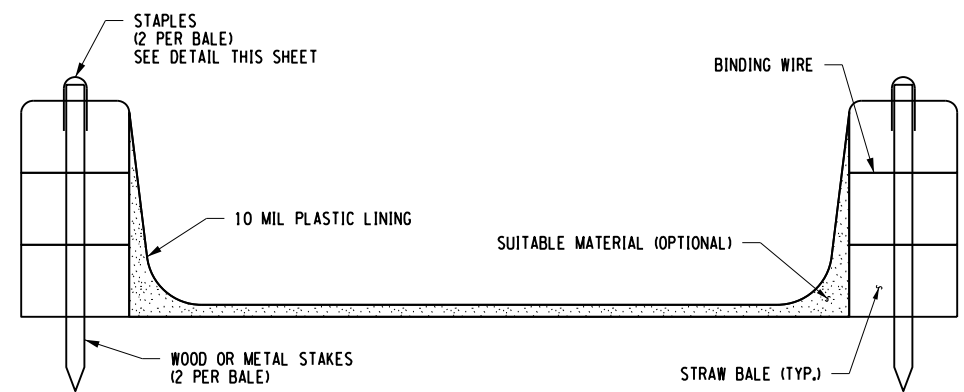
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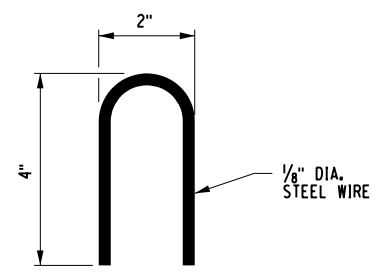
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 ENGINEER: TUH
 DESIGNER: VLG



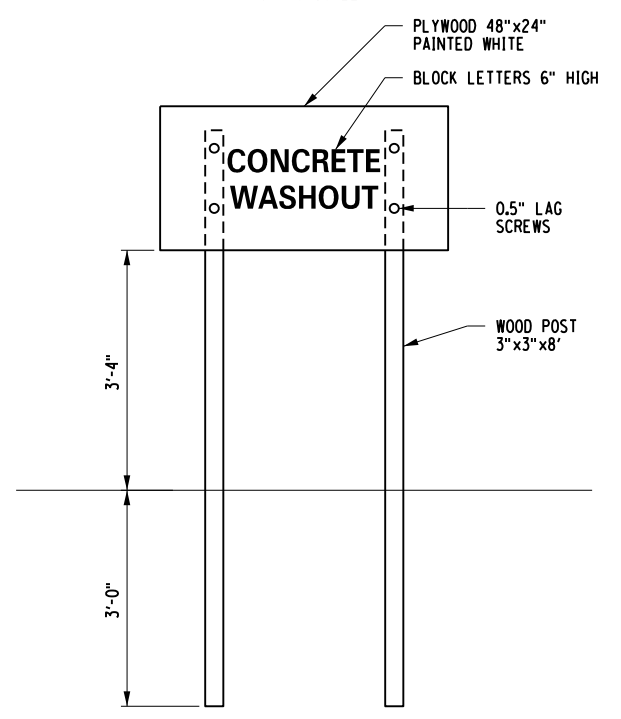
PLAN
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SECTION A-A
NOT TO SCALE



STAPLE DETAIL
NOT TO SCALE



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVILANT)
NOT TO SCALE

CONCRETE WASHOUT NOTES:

1. ACTUAL LAYOUT AND LOCATION TO BE DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 5 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. LOCATE WASHOUT AREA AT LEAST 50-FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID OR SOLID WASTE.
4. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY.
5. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHALL BE CONSTRUCTED AS SHOWN ON THE DETAILS WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10-FEET, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATION.
6. STRAW BALES, WOOD STAKES, AND SANDBAG MATERIAL SHALL CONFORM TO THE PROVISIONS IN THE EROSION AND SEDIMENT CONTROL SPECIFICATION.
7. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
8. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED FROM THE SITE OF THE WORK.
9. HOLES, DEPRESSIONS, OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.
10. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4-INCHES. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED.
11. WASHOUT FACILITIES SHALL BE CLEANED, OR NEW FACILITIES SHALL BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
12. THE COST FOR THE CONCRETE WASHOUTS SHALL BE INCLUDED IN THE PRICE BID FOR ALL CONCRETE ITEMS.

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 BRM



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It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

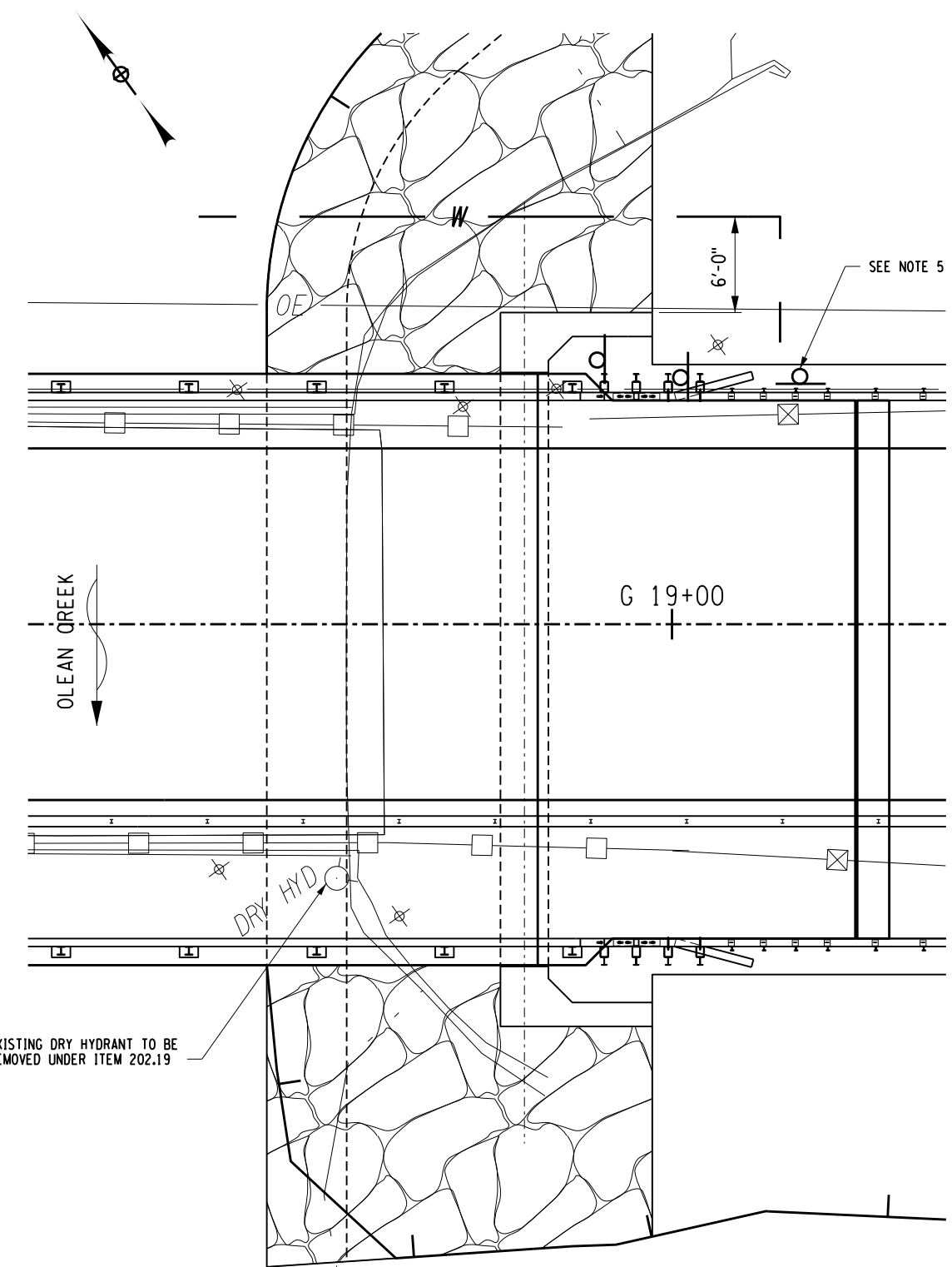


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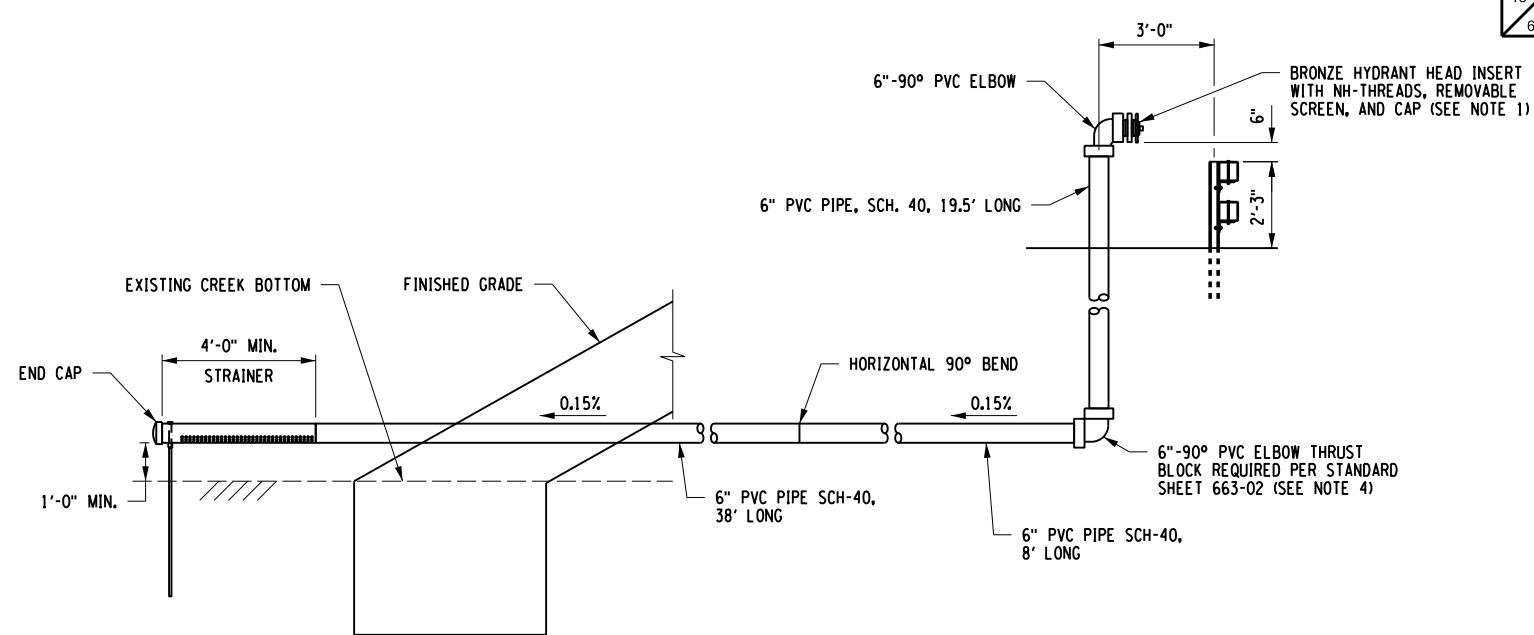
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 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
 MISCELLANEOUS DETAILS
 (1 OF 2)

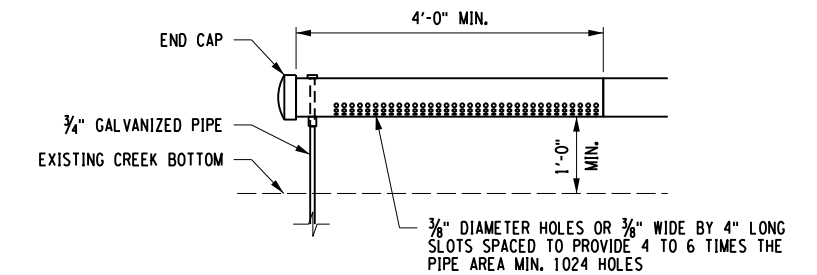
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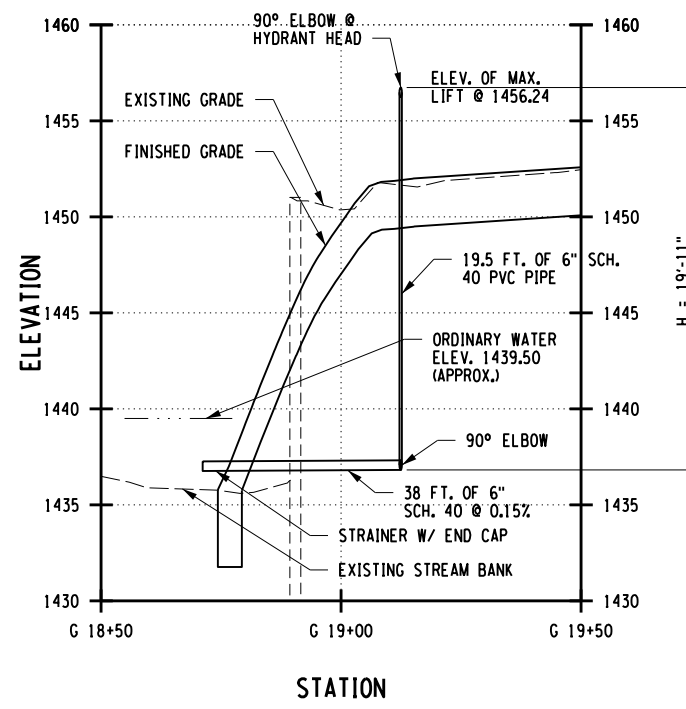
DRY HYDRANT PIPELINE PLAN
NOT TO SCALE



HYDRANT DETAIL
NOT TO SCALE



STRAINER AND PIPE SUPPORT DETAILS
NOT TO SCALE



HYDRANT PROFILE
SCALE: 1" = 40' HORZ.
1" = 10' VERT.

- NOTES:**
- CHECK WITH LOCAL FIRE DEPARTMENT TO SEE IF SUCTION HOSE FITTING MATCHES THE NH-THREAD HYDRANT. IF NOT, AN ADAPTER IS NEEDED, OR A HYDRANT INSERT OBTAINED THAT FITS THE FIRE DEPARTMENT EQUIPMENT. MAKE SURE EQUIPMENT IS COMPATIBLE BEFORE INSTALLATION.
 - CONTRACTOR SHALL COORDINATE FINAL PLACEMENT OF DRY HYDRANT CONNECTION WITH THE HINSDALE FIRE DEPARTMENT.
 - ALL FITTINGS AND WORK REQUIRED TO INSTALL THE DRY HYDRANT INCLUDING ANY RESTRAINTS AND THRUST BLOCKS AS SHOWN ON THESE PLANS SHALL BE INCLUDED IN ITEM 663.1501 DRY HYDRANT.
 - THRUST BLOCKS SHALL BE PLACED ON BOTH SIDES OF THE PIPE ELBOWS.
 - EXISTING "DRY HYDRANT" SIGN SHALL BE REMOVED, STORED AND REUSED AT THE NEW DRY HYDRANT LOCATION. COST TO BE INCLUDED IN ITEM 663.1501.

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DESIGNER: VLG
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ENGINEER: BRM



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MSD-2

TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE SECTION 401 WATER QUALITY CERTIFICATION.
2. THE ELEMENTS OF THESE DRAWINGS KNOWN AS TEMPORARY EROSION AND SEDIMENT CONTROL PLANS AND NOTES SHALL BE USED DURING CONSTRUCTION IN ANY AREA WHERE FINE MATERIALS MAY ENTER THE WATERS OF THE STATE OF NEW YORK.
3. ALL STREAM CHANNEL WORK SHALL BE LIMITED TO WITHIN THE DESIGNATED RIGHT OF WAY, EASEMENT LIMITS OR RELEASE.
4. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT MIGRATION INTO WATER BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION PROCEDURES.
5. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
6. THE COST OF INSTALLING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PAID UNDER THE ITEMS SHOWN.
7. IN THE EVENT DEWATERING OPERATION BECOMES NECESSARY, PUMPING TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE THE STREAMBED WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM.
8. HEAVY EQUIPMENT SHALL NOT BE DRIVEN IN WATER.
9. ACCESS FILLS: CONSTRUCTION OF TEMPORARY ACCESS FILLS SHALL INCLUDE PLACEMENT OF GEOTEXTILE ON ORIGINAL GROUND FIRST, TO MAINTAIN SEPARATION OF MATERIALS. ANY ACCESS FILL MATERIALS PLACED SHALL MEET THE GRADATION SPECIFICATIONS FOR ITEM 203.06 SELECT FILL. ALL MATERIALS ARE TO BE REMOVED ONCE THE ACCESS FILLS ARE NO LONGER NEEDED. NO EXTRA PAYMENT WILL BE MADE FOR TEMPORARY ACCESS FILLS.
10. NO DISCHARGE OF TEMPORARY FILL MATERIAL INTO THE WATERWAY IS PERMITTED.
11. ANY ACCESS WAYS OR DETOURS SHALL BE COMPLETELY ISOLATED WITH EROSION CONTROL TREATMENTS. IF THE ACCESS WAY IS TO REMAIN IN PLACE LONGER THAN FIVE DAYS, THE EXPOSED SOILS ARE TO BE TEMPORARILY SEEDED AND MULCHED AS DESCRIBED UNDER SECTION 209, TEMPORARY SOIL EROSION AND SEDIMENT CONTROL.
12. SAND BAGS APPROVED FOR USE SHALL BE OF A REINFORCED GEOTEXTILE TYPE WITH TIES. NO BURLAP BAGS SHALL BE USED. SAND OR GRAVEL MAY BE USED AS THE FILL MATERIAL WITH THIS TYPE OF BAG IF MATERIAL IS DOUBLE BAGGED AND INDIVIDUALLY TIED TO PREVENT LEAKAGE. GRAVEL MATERIAL USED TO FILL THE BAGS SHALL MEET THE SIZE DESIGNATION #1 OF TABLE 703-4 OF N.Y.S.D.O.T. STANDARD SPECIFICATIONS.
13. GEOTEXTILE SHALL SATISFY THE REQUIREMENTS OF SECTION 207-2 OF THE N.Y.S.D.O.T. STANDARD SPECIFICATIONS.
14. WHERE SILT FENCE IS USED IN AREAS OF CONCENTRATED FLOW OR HEAVY SILT BUILDUP, THE ENGINEER-IN-CHARGE MAY CALL FOR BACKING THE FENCE WITH HAY BALES AS ADDITIONAL HIGH FLOW PROTECTION.
15. ONLY AFTER FABRIC HAS BEEN INSTALLED ON WIRE FENCING, MAY THE ENGINEER-IN-CHARGE ALSO CALL FOR BACKING THE FENCE WITH HAY BALES AS ADDITIONAL HIGH FLOW PROTECTION.
16. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, A.O.B.E.
17. THE TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES SPECIFIED IN THIS CONTRACT SHALL BE CHECKED AND REPAIRED AS NECESSARY, ON A WEEKLY BASIS AND AFTER EACH STORM EVENT. PERIODIC CLEANING OF SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE NECESSARY AND A.O.B.E.
18. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND SILT FENCES WHENEVER MORE THAN 6 INCHES OF MATERIAL HAS ACCUMULATED OR IF THE FENCE HAS BEEN BREACHED OR IS BULGING.
19. ANY DISTURBED AREAS WHICH ARE LEFT EXPOSED MORE THAN 14 DAYS, AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING IN ACCORDANCE WITH ITEM 209.1003. HOWEVER, NO EXTRA PAYMENT WILL BE MADE FOR TEMPORARY SEEDING.
20. ANY GRADED AREAS NOT SUBJECT TO FURTHER DISTURBANCE OR CONSTRUCTION TRAFFIC SHALL BE ESTABLISHED WITH PERMANENT VEGETATIVE COVER, AS PER CONTRACT SPECIFICATIONS, WITHIN 14 DAYS OF FINAL GRADING.
21. ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
22. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
23. STORM WATER FROM DISTURBED AREAS MUST BE PASSED THROUGH A SEDIMENT TRAP OR SILTATION FENCE BEFORE DISCHARGE BEYOND DISTURBED AREAS OR INTO INLETS OF OTHER DRAINAGE SYSTEMS.
24. DURING CONSTRUCTION NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE TO NY WATERS NOR SHALL WASHING FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ENTER ANY WATERS.
25. ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY RE-ENTER ANY WATER BODY.
26. THE LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE CONTRACT DOCUMENTS, MAY REQUIRE FIELD ADJUSTMENT DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS AND/OR ACTUAL FIELD CONDITIONS. NO MODIFICATIONS WILL BE MADE WITHOUT THE APPROVAL OF THE ENGINEER.

VLG

DESIGNER:

TJH

ENGINEER:

BRM

PROJECT MANAGER:



NO.	REVISION	BY	DATE
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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.



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PROJECT/CLIENT

HINSDALE BRIDGE 62 COUNTY ROAD 26
(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE

TEMPORARY EROSION AND
SEDIMENT CONTROL NOTES

PROJECT NUMBER

2181139

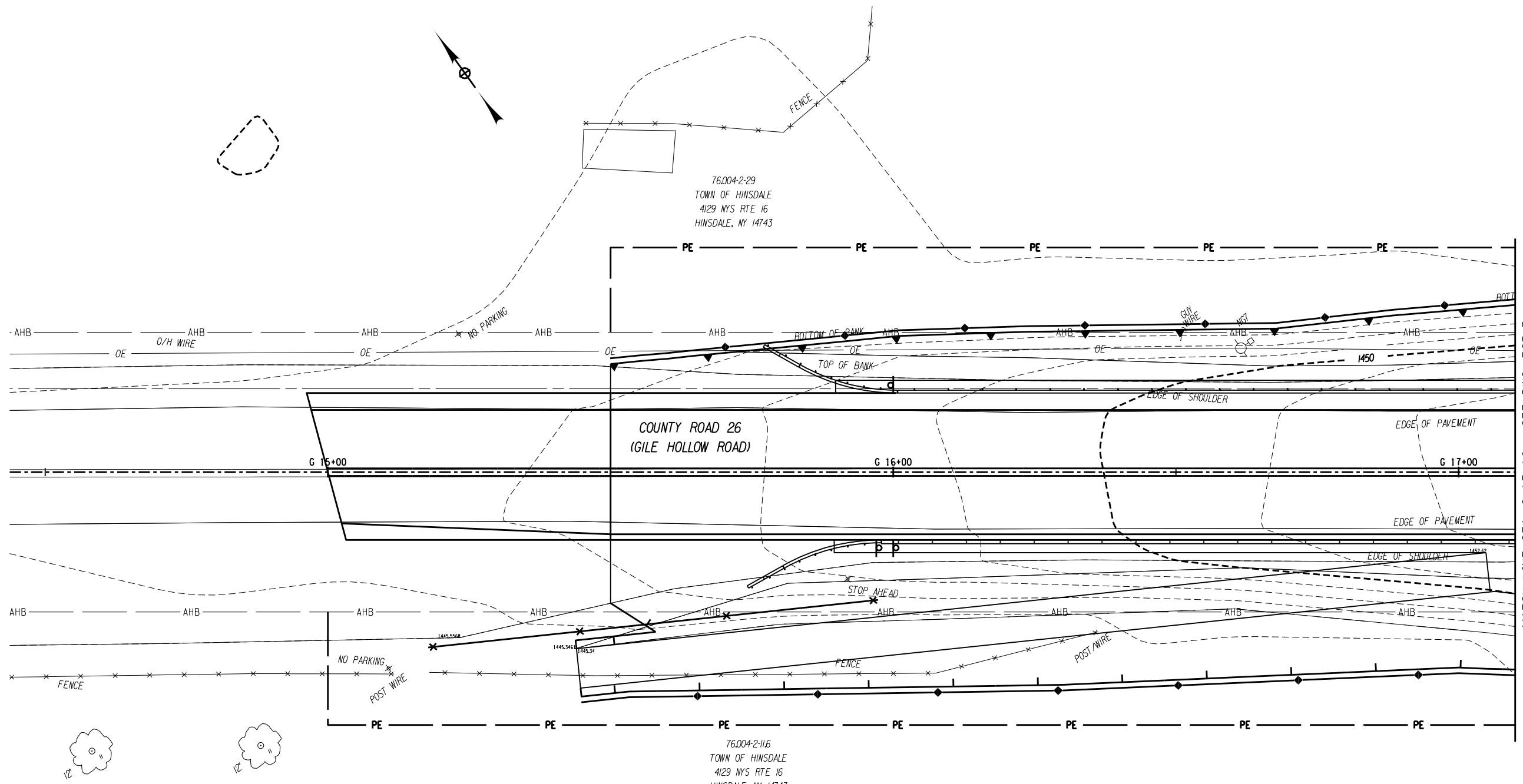
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OCTOBER 2019

DRAWING NUMBER

ECP-1

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76.004-2-29
TOWN OF HINSDALE
4129 NYS RTE 16
HINSDALE, NY 14743

COUNTY ROAD 26
(GILE HOLLOW ROAD)

76.004-2-116
TOWN OF HINSDALE
4129 NYS RTE 16
HINSDALE, NY 14743

MATCH LINE STA. G 17+10 - SEE DWG. ECP-3

NOTES:

1. SEE DWG. ECP-1 FOR "TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL NOTES"

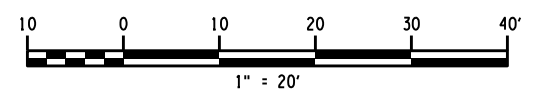
U.S. ARMY CORPS OF ENGINEERS

1. SECTION 404 OF THE CLEAN WATER ACT (33 U.S.C. 1344) PROHIBITS THE DISCHARGE OF DREDGED OR FILL MATERIALS INTO THE WATERS OF THE UNITED STATES WITHOUT A PERMIT FROM THE U.S. ARMY CORPS OF ENGINEERS. THE PROPOSED WORK HAS BEEN DETERMINED TO BE A MINOR ACTIVITY, MEETING THE TERMS AND CONDITIONS SET FORTH UNDER THE NATIONWIDE PERMIT PROGRAM. SEE THE PROJECT PROPOSAL FOR DETAILED PERMIT CONDITIONS.

SILT FENCE TABLE		
STATION TO STATION	SIDE	LENGTH (FT)
G 15+50.00 TO G 18+25.00	LT.	282
G 15+45.00 TO G 18+15.00	RT.	280
G 18+97.00 TO G 19+75.00	LT.	87
G 18+80.00 TO G 19+57.00	RT.	86

LEGEND:

- SILT FENCE - TEMPORARY, ITEM 209.13
- FILL LIMIT LINE
- CUT LIMIT LINE



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 PROJECT MANAGER:

BRM ENGINEER: TUH DESIGNER: VLG



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 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

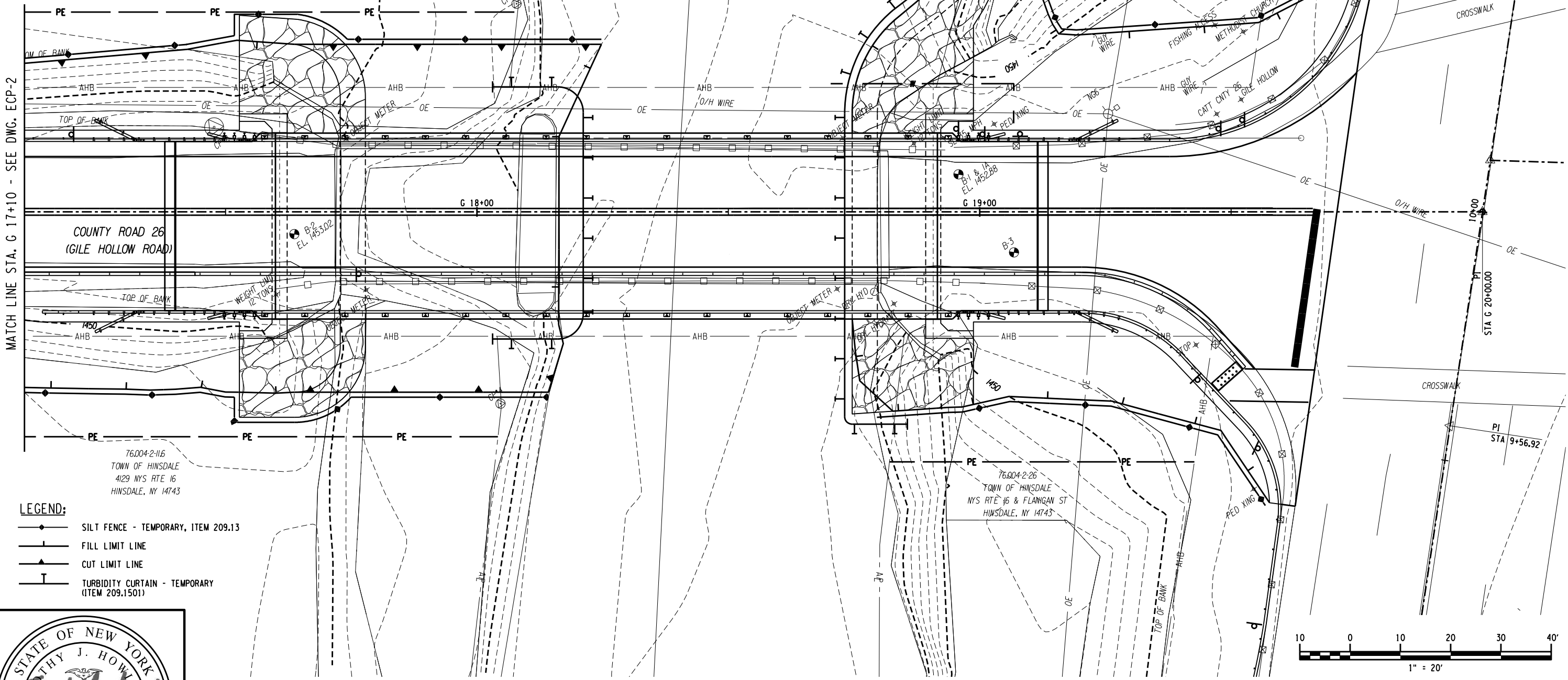
DRAWING TITLE
 TEMPORARY EROSION AND
 SEDIMENT CONTROL PLAN
 (1 OF 2)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ECP-2

76.004-2-29
TOWN OF HINSDALE
4129 NYS RTE 16
HINSDALE, NY 14743



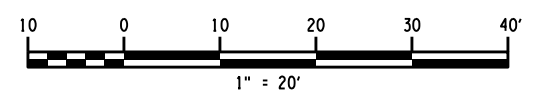
MATCH LINE STA. G 17+10 - SEE DWG. ECP-2



76.004-2-116
TOWN OF HINSDALE
4129 NYS RTE 16
HINSDALE, NY 14743

76.004-2-26
TOWN OF HINSDALE
NYS RTE 16 & FLANNAN ST
HINSDALE, NY 14743

- LEGEND:**
- SILT FENCE - TEMPORARY, ITEM 209.13
 - |— FILL LIMIT LINE
 - ▲— CUT LIMIT LINE
 - T— TURBIDITY CURTAIN - TEMPORARY (ITEM 209.1501)



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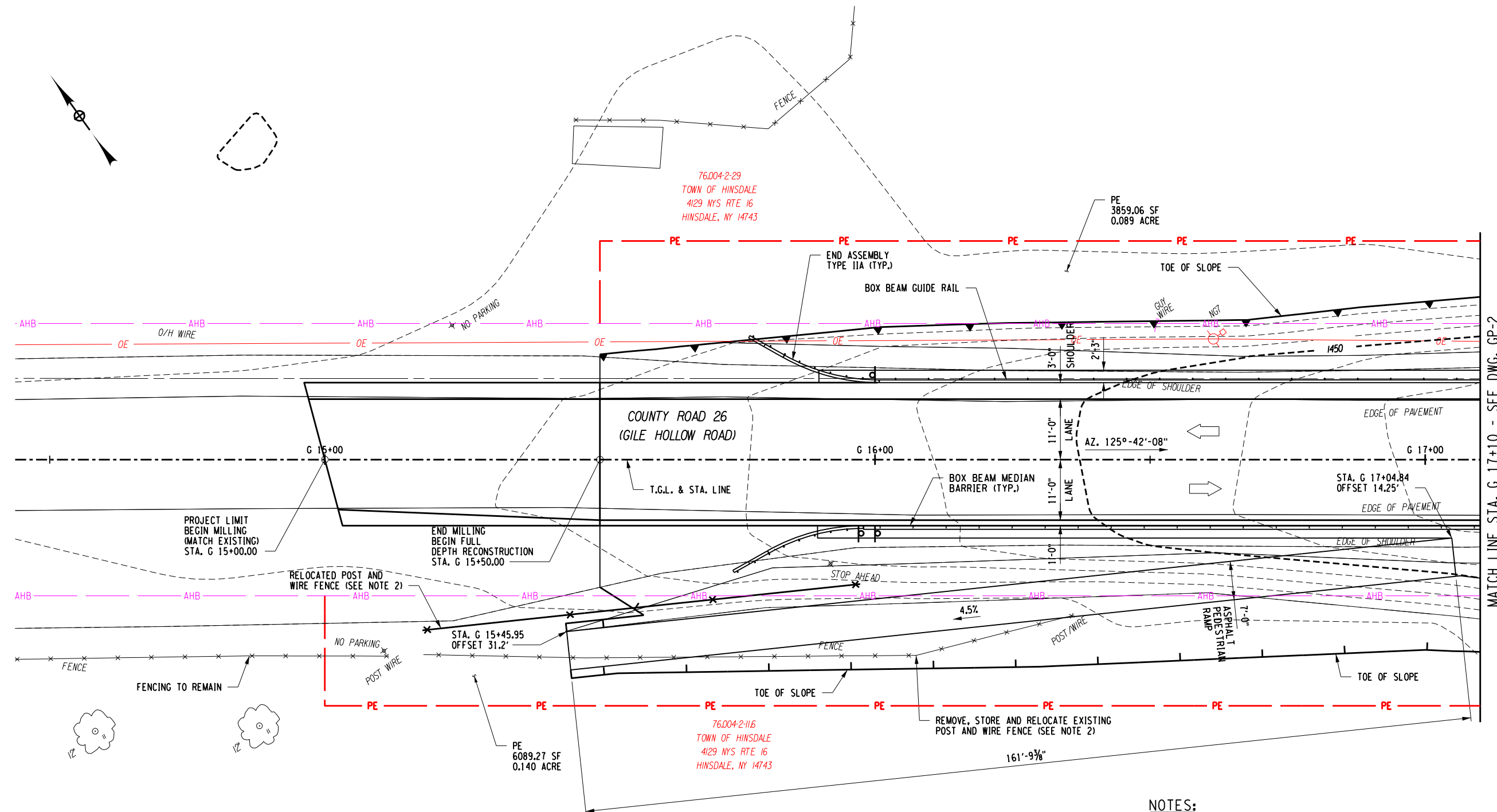
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(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
TEMPORARY EROSION AND
SEDIMENT CONTROL PLAN
(2 OF 2)

PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
ECP-3

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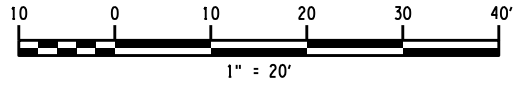
BRM ENGINEER: TUH DESIGNER: VLG



PLAN

- LEGEND:**
- SOIL BORING LOCATION
 - HEAVY STONE FILL SLOPE PROTECTION
 - TREE REMOVAL, OVER 4 INCHES TO 6 INCHES DIAMETER BREAST HEIGHT - STUMP CUT FLUSH, ITEM 614.060102
 - TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEIGHT - STUMP CUT FLUSH, ITEM 614.060302

- NOTES:**
1. ALL TREES OVER 3" DIAMETER BREAST HEIGHT SHALL BE CUT BETWEEN NOVEMBER 1ST AND MARCH 31ST. COST TO BE INCLUDED IN ITEMS 201.06, 614.060102 AND 614.060302.
 2. CONTRACTOR SHALL REMOVE, STORE AND REINSTALL THE POST AND WIRE FENCING AS INDICATED AND AS ORDERED BY THE ENGINEER. COST TO BE INCLUDED IN ITEM 203.02.



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 DESIGNER:
 TUH
 ENGINEER:
 BRM



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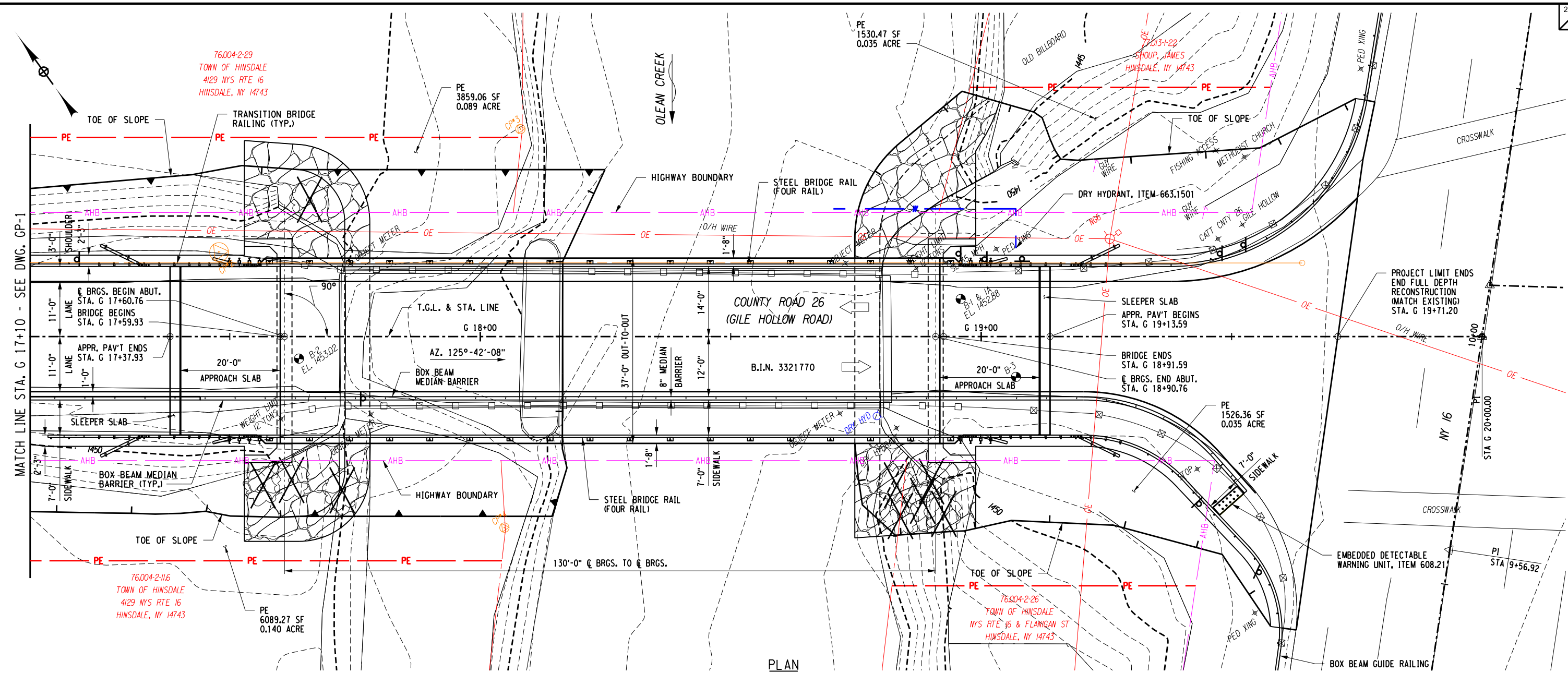
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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

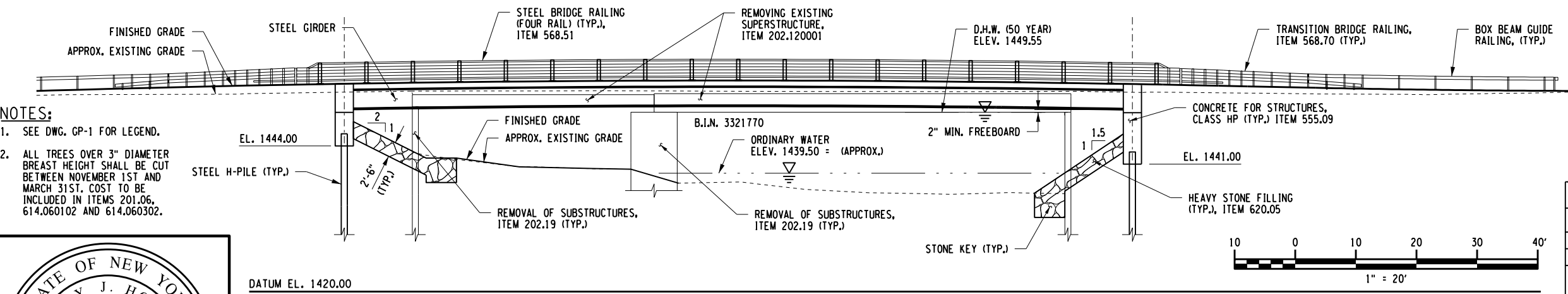
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 GENERAL PLAN
 (1 OF 2)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 GP-1

MATCH LINE STA. G 17+10 - SEE DWG. GP-2



PLAN



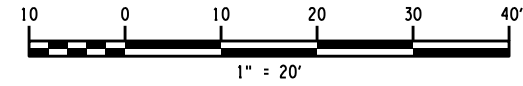
ELEVATION

- NOTES:**
- SEE DWG. GP-1 FOR LEGEND.
 - ALL TREES OVER 3" DIAMETER BREAST HEIGHT SHALL BE CUT BETWEEN NOVEMBER 1ST AND MARCH 31ST. COST TO BE INCLUDED IN ITEMS 201.06, 614.060102 AND 614.060302.

LOAD RATING (LOAD FACTOR)		
INVENTORY	HS 41.4	74.5 TONS
OPERATING	HS 69.0	124.2 TONS

LOAD RATING (LRFR)		
INVENTORY	HL-93	1.24
OPERATING	HL-93	1.60

HYDRAULIC DATA			
DRAINAGE AREA	180 SQ. MILES	BASIC FLOOD	DESIGN FLOOD
RECURRENCE INTERVAL (YEARS)		100	50
PEAK DISCHARGE (FT. ³ /SEC.)		12210	10857
HIGH WATER ELEVATION AT POINT OF MAX. BACKWATER	EXISTING	1449.96	1449.55
	PROPOSED	1449.89	1449.48
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD 3.9 FT./SEC.			



NO.	REVISION	BY	DATE
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PROJECT/CLIENT
HINSDALE BRIDGE 62 COUNTY ROAD 26 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

PROJECT NUMBER
2181139
 DATE
OCTOBER 2019
 DRAWING NUMBER
GP-2

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 PROJECT MANAGER:

DESIGNER: VLG
 T.U.H.
 ENGINEER: BRM

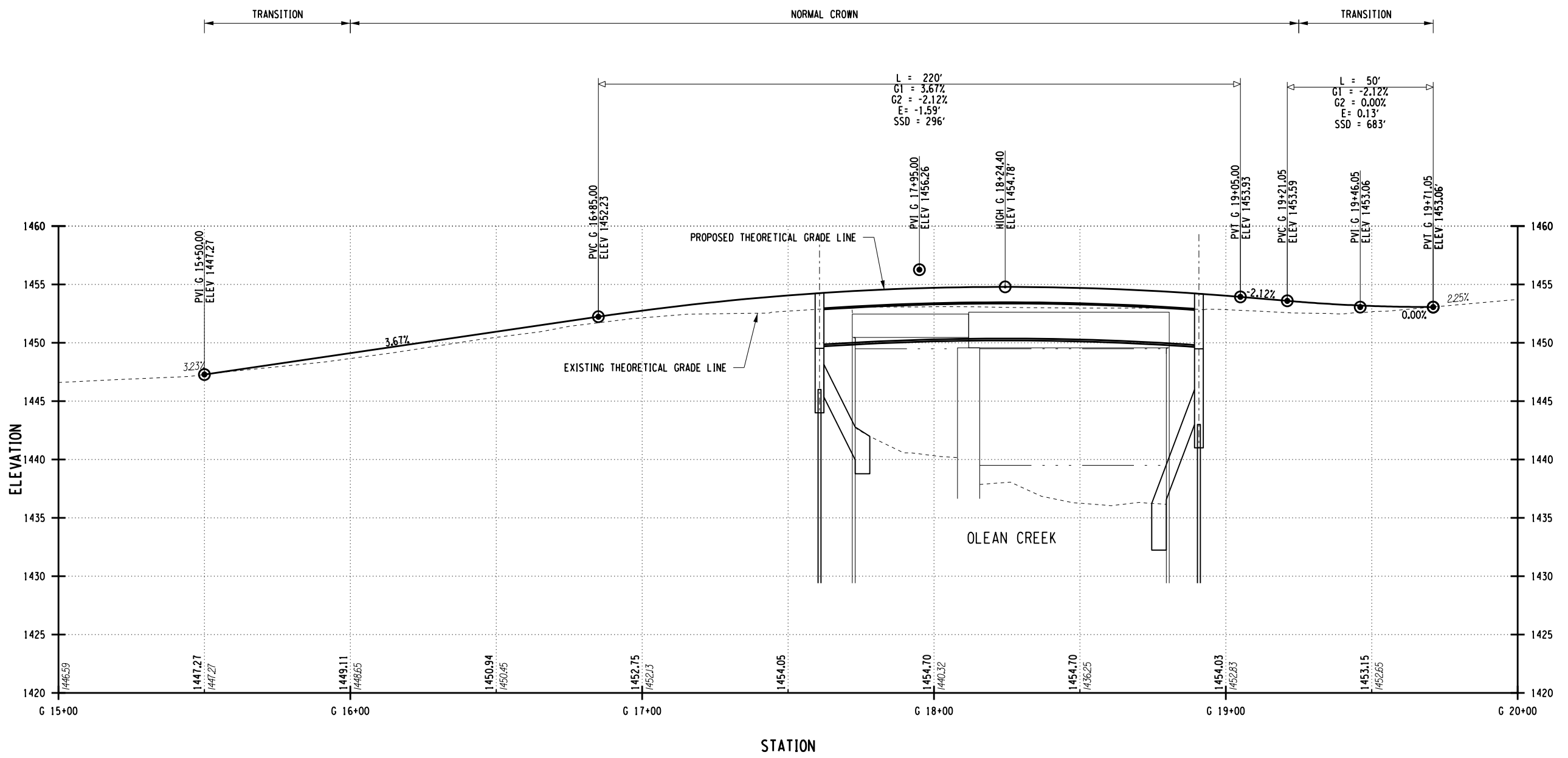
MATCH LINE STA. G 17+10 - SEE DWG. GP-1

PROJECT LIMIT ENDS END FULL DEPTH RECONSTRUCTION (MATCH EXISTING) STA. G 19+71.20

76.004-2-29
 TOWN OF HINSDALE
 4129 NYS RTE 16
 HINSDALE, NY 14743

76.004-2-116
 TOWN OF HINSDALE
 4129 NYS RTE 16
 HINSDALE, NY 14743

76.004-2-26
 TOWN OF HINSDALE
 NYS RTE 16 & FLAMIGAN ST
 HINSDALE, NY 14743



COUNTY ROAD 26 (GILE HOLLOW ROAD)
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

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 PROJECT MANAGER:
 BRM
 ENGINEER:
 TUH
 DESIGNER:
 VLG



NO.	REVISION	BY	DATE
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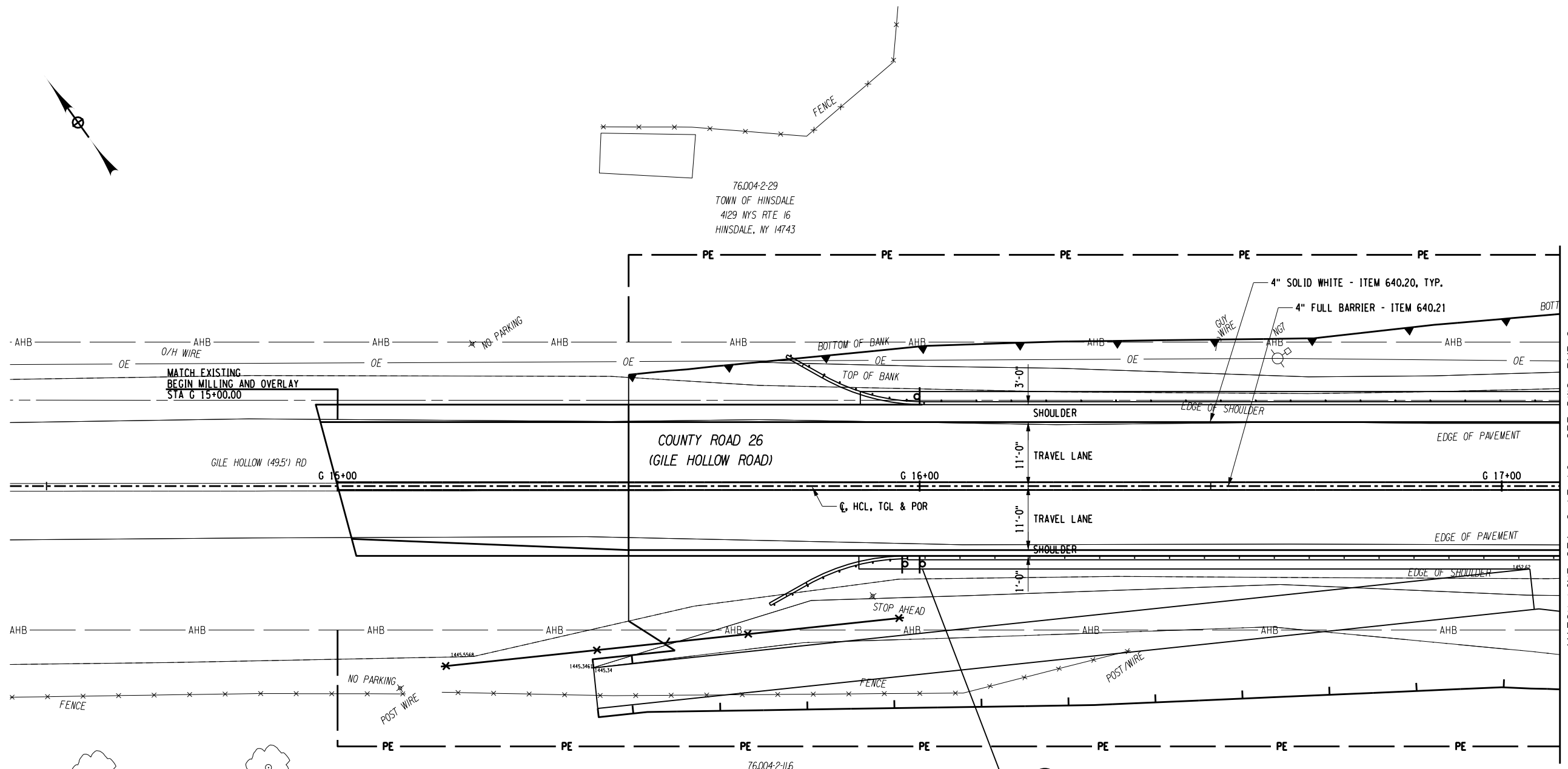


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 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

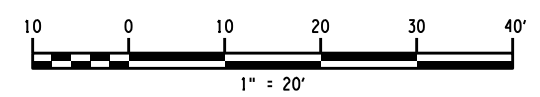
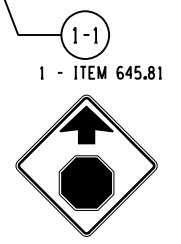
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PROJECT NUMBER
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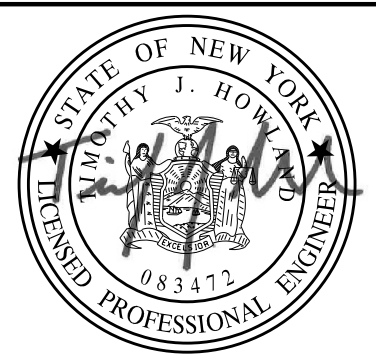
76.004-2-29
TOWN OF HINSDALE
4129 NYS RTE 16
HINSDALE, NY 14743

76.004-2-116
TOWN OF HINSDALE
4129 NYS RTE 16
HINSDALE, NY 14743



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VLG
 DESIGNER:
 TUH
 ENGINEER:
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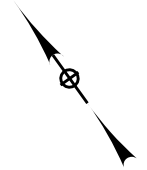
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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
 SIGNING AND STRIPING PLAN
 (1 OF 3)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 PMP-1

MATCH LINE STA. G 17+10 - SEE DWG. PMP-2



76.004-2-29
TOWN OF HINSDALE
4129 NYS RTE 16
HINSDALE, NY 14743



1 - ITEM 645.81

SPEED LIMIT
35

1 - ITEM 645.81

2-1

2-3

OLD BILLBOARD

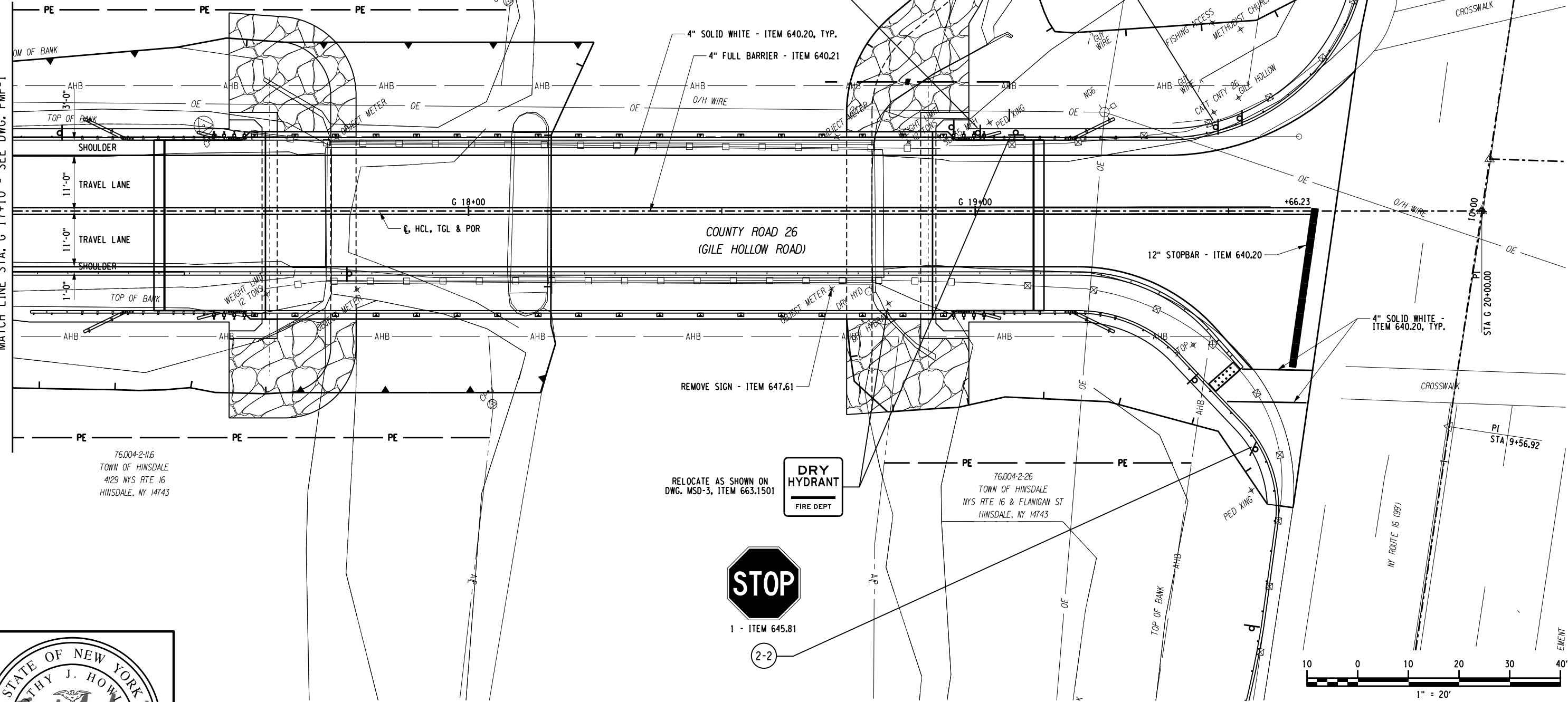
77.013-1-22
SHOUP, JAMES
HINSDALE, NY 14743

FISHING ACCESS
METHODIST CHURCH

CAT CNTY 26
GILE HOLLOW

CROSSWALK

MATCH LINE STA. G 17+10 - SEE DWG. PMP-1



4" SOLID WHITE - ITEM 640.20, TYP.

4" FULL BARRIER - ITEM 640.21

AHB
O/H WIRE

12" STOPBAR - ITEM 640.20

4" SOLID WHITE -
ITEM 640.20, TYP.

REMOVE SIGN - ITEM 647.61

DRY HYDRANT
FIRE DEPT

RELOCATE AS SHOWN ON
DWG. MSD-3, ITEM 663.1501

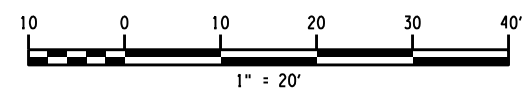


1 - ITEM 645.81

2-2

76.004-2-26
TOWN OF HINSDALE
NYS RTE 16 & FLANIGAN ST
HINSDALE, NY 14743

76.004-2-116
TOWN OF HINSDALE
4129 NYS RTE 16
HINSDALE, NY 14743



PROJECT MANAGER: BRM
ENGINEER: TUH
DESIGNER: VLG
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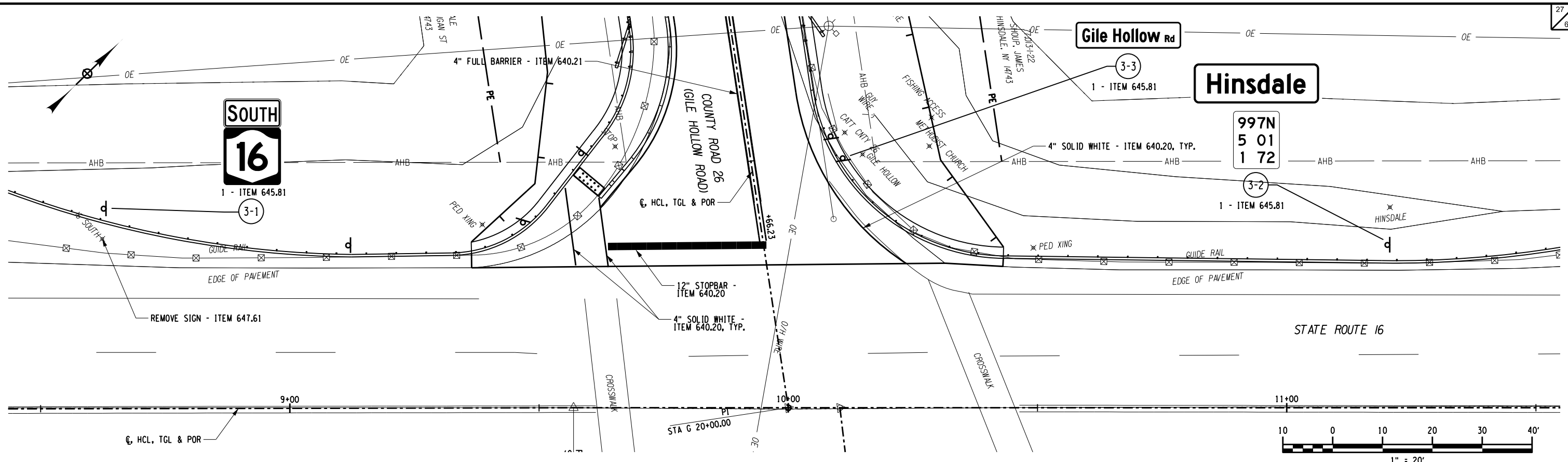


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PROJECT/CLIENT
HINSDALE BRIDGE 62 COUNTY ROAD 26
(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
SIGNING AND STRIPING PLAN
(2 OF 3)

PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
PMP-2



SIGN TEXT DATA TABLE					
DESIGNATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE	PAYMENT AREA (SEE NOTE 3)
				AREA (SEE NOTE 3)	TOTAL PAYMENT AREA
W3-1	1-1		645.5202	30 x 30	6.3
				6.3	6.3
R2-1	2-1		645.5202	24 x 30	5.0
				5.0	5.0
R1-1	2-2		645.5202	30 x 30	6.3
				5.0	6.3
M1-6	2-3		645.5202	24 x 24	4.0
				4.0	4.0

SIGN TEXT DATA TABLE					
DESIGNATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE	PAYMENT AREA (SEE NOTE 3)
				AREA (SEE NOTE 3)	TOTAL PAYMENT AREA
M3-3	3-1	SOUTH	645.5202	24 x 12	2.0
				2.0	2.0
M1-5NY	3-1	16	645.5202	24 x 24	2.0
				2.0	2.0
D10-5NY	3-2	997N 5 01 1 72	645.5202	8 x 8	0.4
				0.4	0.4
D3-1	3-2	Hinsdale	645.5202	57 x 18	7.2
				7.2	7.2

SIGN TEXT DATA TABLE					
DESIGNATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE	PAYMENT AREA (SEE NOTE 3)
				AREA (SEE NOTE 3)	TOTAL PAYMENT AREA
D3-1	3-3	Gile Hollow Rd	645.5202	48 x 12	8.0
				4.0	8.0

- NOTES:
- SIGN LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL INSTALL NEW SIGNS IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENT.
 - THE COLOR IS SHOWN ONLY WHEN THERE IS A COLOR OPTION THAT MUST BE SPECIFIED.
 - THE AREA, AND PAYMENT AREA, FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUTS.
 - FOR SIGN REMOVAL TABLE AND RELOCATION TABLE. SEE DWG. MST-1.

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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
 SIGNING AND STRIPING PLAN
 (3 OF 3)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 PMP-3

INDEX		TOTAL NUMBER OF SHEETS: 39
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
28	ESTIMATE OF QUANTITIES AND INDEX OF DRAWINGS	ST-01
29	GENERAL NOTES	ST-02
30	EXCAVATION AND BACKFILL PLAN	ST-03
31	EXCAVATION AND BACKFILL SECTIONS (1 OF 2)	ST-04
32	EXCAVATION AND BACKFILL SECTIONS (2 OF 2)	ST-05
33	BEGIN ABUTMENT PLAN AND ELEVATIONS	ST-06
34	BEGIN ABUTMENT REINFORCEMENT PLAN	ST-07
35	BEGIN ABUTMENT REINFORCEMENT ELEVATIONS	ST-08
36	END ABUTMENT PLAN AND ELEVATION	ST-09
37	END ABUTMENT REINFORCEMENT PLAN	ST-10
38	END ABUTMENT REINFORCEMENT ELEVATION	ST-11
39	ABUTMENT REINFORCEMENT SECTIONS	ST-12
40	TRANSVERSE BRIDGE SECTION	ST-13
41	FRAMING PLAN	ST-14
42	GIRDER ELEVATION AND DETAILS	ST-15
43	DIAPHRAGM DETAILS	ST-16
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ESTIMATE OF QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED	FINAL
201.06	CLEARING AND GRUBBING	LS	NEC	
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	NEC	
202.19	REMOVAL OF SUBSTRUCTURES	CY	130	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	555	
203.03	EMBANKMENT IN PLACE	CY	495	
203.21	SELECT STRUCTURE FILL	CY	115	
206.01	STRUCTURE EXCAVATION	CY	1220	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	153	
207.27	PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN	SY	120	
209.13	SILT FENCE, TEMPORARY	LF	735	
209.1501	TURBIDITY CURTAIN - TEMPORARY	LF	202	
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY	492	
402.098303	9.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	97	
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	116	
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	233	
407.0102	DILUTED TACK COAT	GAL	262	
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	113	
551.016088	STEEL H-PILES (HP 16X88)	LF	2013	
551.12	SPLICES FOR STEEL H-PILES	EA	22	
551.13	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC	
551.14	DYNAMIC PILE TESTING	EA	2	
553.020001	COFFERDAMS (TYPE 2)	EA	1	
553.020002	COFFERDAMS (TYPE 2)	EA	1	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	136	
556.10013011	CORROSION RESISTANT REINFORCING STEEL GRADE 100	LB	29648	
556.03	STUD SHEAR CONNECTOR FOR BRIDGES	EA	1296	
557.0103	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM FORMWORK REQUIRED - TYPE 3 FRICTION	SY	542	
557.2003	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYPE 3 FRICTION	SY	198	
557.29	WINTER SURFACE TREATMENT - SUPERSTRUCTURE SLABS AND STRUCTURAL APPROACH SLABS	SY	710	
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SY	508	
559.16960118	PROTECTIVE SEALING OF STRUCTURAL CONCRETE	SF	804	
559.18960118	PROTECTIVE SEALING OF STRUCTURAL CONCRETE FOR NEW BRIDGE DECKS	SF	6851	
564.0501	STRUCTURAL STEEL (TYPE 1)	LS	NEC	
564.20010008	HOT-DIP GALVANIZING OF STRUCTURAL STEEL	LB	19425	
565.30	RUBBER IMPREGNATED WOVEN COTTON-POLYESTER FABRIC	EA	12	
568.51	STEEL BRIDGE RAILING (FOUR RAIL)	LF	280	
568.70	TRANSITION BRIDGE RAILING	LF	128	
572.00020101	METALIZING, TYPE 1	LS	NEC	
606.10	BOX BEAM GUIDE RAILING	LF	250	
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR MITERED)	LF	94	
606.11	BOX BEAM MEDIAN BARRIER	LF	323	
606.110002	BOX BEAM MEDIAN BARRIER (SHOP BENT OR MITERED)	LF	32	
606.120101	BOX BEAM END PIECE	EA	2	
606.120102	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE I	EA	2	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EA	2	
606.71	REMOVING AND DISPOSING CORRUGATED BEAM RAILING	LF	626	
606.7910	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING	EA	2	
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON	14	
608.21	EMBEDDED DETECTABLE WARNING UNITS	SY	2	
610.1402	TOPSOIL - ROADSIDE	CY	131	
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	1180	
614.060102	TREE REMOVAL, OVER 4 INCHES TO 6 INCHES DIAMETER BREAST HEIGHT - STUMP CUT FLUSH	EA	1	
614.060302	TREE REMOVAL, OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEIGHT - STUMP CUT FLUSH	EA	8	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	NEC	
619.04	TYPE III CONSTRUCTION BARRICADES	EA	12	
619.1701	TEMPORARY CONCRETE BARRIER, (UNPINNED)	LF	80	
620.05	STONE FILLING (HEAVY)	CY	365	
620.0801	BEDDING MATERIAL, TYPE 1	CY	65	
625.01	SURVEY OPERATIONS	LS	NEC	
627.50140008	CUTTING PAVEMENT	LF	132	
634.9901	TESTING LABORATORY SERVICES	FPLS	1	
637.03	CONCRETE CYLINDER CURING BOX	EA	1	
637.11	ENGINEER'S FIELD OFFICE	MNTH	7	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	1500	
640.20	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	606	
640.21	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	934	
645.5202	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH Z-BARS, HIGH-VISIBILITY SHEETING	SF	42	
645.81	TYPE A SIGN POSTS	EA	11	
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EA	10	
646.32	STEEL POST, 2.0 LB/FT	EA	8	
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQUARE FEET)	EA	4	
647.61	REMOVE AND DISPOSE GROUND MOUNTED TYPE A SIGN SUPPORT(S), FDNS AND ANY ATTACHED SIGNS - SIZE I (UNDER 30 SQUARE FEET)	EA	14	
663.1501	DRY HYDRANT	EA	1	
697.03	FIELD CHANGE PAYMENT (FCP)	DC	75000	
698.04	ASPHALT PRICE ADJUSTMENT	DC	100	
698.05	FUEL PRICE ADJUSTMENT	DC	100	
698.06	STEEL/IRON PRICE ADJUSTMENT	DC	100	
699.040001	MOBILIZATION	LS	NEC	

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 DESIGNER: TUH
 ENGINEER: BRM



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It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.



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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
 ESTIMATE OF QUANTITIES
 AND INDEX OF DRAWINGS

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-01

GENERAL NOTES:

DESIGN SPECIFICATIONS: NYS DOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OCTOBER 2019 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: $f'c = 3,000$ psi.)

LIVE LOAD: AASHTO HL - 93 AND NYS DOT DESIGN PERMIT VEHICLE.

THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.

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

"BUY AMERICAN" REQUIREMENT FOR STEEL PRODUCTS ARE WAIVED FOR THIS PROJECT.

THIS PROJECT IS SUBJECT TO US ARMY CORPS OF ENGINEERS AND NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION PERMITS. THE CONTRACTOR SHALL COMPLY WITH ALL THE TERMS AND CONDITIONS OF THESE PERMITS.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NYS DOT HIGHWAY WORK PERMIT (PERM 33).

ANY OTHER PERMITS WHICH MAY BE NECESSARY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

FOUNDATION NOTES:

A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT AND IS INCLUDED IN THE CONTRACT PROPOSAL BOOK. SUBSURFACE EXPLORATIONS HAVE BEEN MADE FOR THIS PROJECT AT THE LOCATIONS INDICATED ON THE PLAN. SOIL BORING LOGS ARE PROVIDED ON DRAWINGS NO.'S GEO-01 TO GEO-0X.

SUBSTRUCTURE NOTES:

THE COST OF ALL MATERIAL AT EACH CONSTRUCTION JOINT, CONTRACTION JOINT AND CONCRETE EXPANSION JOINT SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

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 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.

SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE ENGINEER SHALL CONTACT THE ENGINEER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.

DEWATER THE COFFERDAM BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE ENGINEER. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.

ORDINARY HIGH WATER IS ESTIMATED TO BE 1446.30. 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.

ORDINARY WATER IS ESTIMATED TO BE 1439.5. THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN THE ORDINARY HIGH WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

LOW WATER IS ESTIMATED TO BE 1438.00. THIS WATER ELEVATION IS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

UTILITY NOTES:

ALL KNOWN PUBLIC AND PRIVATE UTILITIES WITHIN OR ADJACENT TO THE SITE ARE SHOWN IN THEIR APPROXIMATE LOCATION ON THE CONTRACT PLANS. THE CONTRACTOR SHALL VERIFY THE UTILITY INFORMATION FOUND ON THE PLANS AND COORDINATE THEIR ACTIVITIES WITH THE VARIOUS UTILITY OWNER INVOLVED.

THE ADJUSTMENT OF EXISTING UTILITY FACILITIES, IF REQUIRED, SHALL BE PERFORMED BY OTHERS, UNLESS NOTED OTHERWISE IN THE CONTRACT PLANS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED RELOCATIONS WITH THE AFFECTED UTILITY OWNER TO ACCOMMODATE PROPOSED CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PRESERVE THE INTEGRITY OF THE EXISTING UTILITIES TO REMAIN AND SHALL PROVIDE UNINTERRUPTED SERVICE TO ALL USERS OF THE EXISTING UTILITY.

SUPERSTRUCTURE NOTES:

ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709, GRADE 70.

DIAPHRAGMS SHALL BE FABRICATED TO FIT GIRDERS ERECTED WITH THEIR WEBS PLUMB FOR THE STEEL DEAD LOAD CONDITION, ALSO KNOWN AS STEEL DEAD LOAD FIT (SDLF).

METALIZING NOTES:

ALL GIRDERS, INCLUDING BEARING STIFFENERS AND CONNECTION PLATES, SHALL BE METALIZED FOR THEIR ENTIRE LENGTH AND THE METALIZING SHALL BE PAID FOR UNDER ITEM 572.00020101.

GALVANIZING NOTES:

ALL STRUCTURAL STEEL DIAPHRAGMS FABRICATED UNDER ITEM 564.0501 SHALL BE HOT DIPPED GALVANIZED UNDER ITEM 564.20010008 - HOT-DIP GALVANIZING OF STRUCTURAL STEEL.

ALL BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.

DRILLED HOLES SHALL BE CLEANED OF EXCESS GALVANIZED COATING THAT PREVENTS PROPER BOLT INSTALLATION.

STUD SHEAR CONNECTORS SHALL BE WELDED PRIOR TO GALVANIZING. THE CONTRACTOR'S WORKER SAFETY PLAN SHALL SPECIFY THE TYPE OF WALKING/WORKING SURFACE TO BE USED SO THAT WORKERS DO NOT WALK ON ANY SURFACE WITH INSTALLED STUD SHEAR CONNECTORS.

REASONABLE ACCOMMODATIONS FOR THE PREVENTION OF WET STORAGE STAINING (WHITE RUST) OF HOT-DIPPED GALVANIZED (HDG) MATERIALS SHALL BE PROVIDED AT ALL TIMES. STORAGE OF HDG MATERIALS OUTDOORS SHOULD BE AVOIDED IF POSSIBLE. STORAGE (OR SHIPPING) OF HDG MATERIALS IN CONTACT WITH ONE ANOTHER SHALL BE AVOIDED. IF OUTDOOR STORAGE IS UNAVOIDABLE, EXAMPLES OF REASONABLE ACCOMMODATIONS ARE AS FOLLOWS: STORE MATERIALS OFF OF THE GROUND AWAY FROM ALL VEGETATION, USE NON-RESINOUS WOODEN SPACERS TO ALLOW VENTILATION AND AVOID MOISTURE BUILD UP, INCLINE MEMBERS TO ALLOW DRAINAGE. EXAMPLES OF NONRESINOUS WOODS ARE: POPLAR, ASH AND SPRUCE. WHITE RUST THAT IS DETERMINED TO BE DETRIMENTAL TO THE INTENDED USE OF THE MEMBER OR HAVE A NEGATIVE VISUAL IMPACT ON THE STRUCTURE SHALL BE REPAIRED IN ACCORDANCE WITH THE NYS STEEL CONSTRUCTION MANUAL. WHITE RUST THAT IS DETERMINED TO BE CAUSED BY IMPROPER STORAGE OR SHIPPING OF HDG MATERIALS SHALL BE REPAIRED AT NO COST TO THE COUNTY.

STEEL ERECTION NOTES:

THE CONTRACTOR SHALL PROVIDE FOR THE STABILITY OF STRUCTURAL STEEL DURING ALL PHASES OF ERECTION AND CONSTRUCTION, AS PROVIDED IN SUBSECTION 204 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). THE METHODS USED BY THE CONTRACTOR SHALL BE DOCUMENTED ON THE ERECTION DRAWINGS WITH ALL SUPPORTING STABILITY CALCULATIONS SUBMITTED AND STAMPED BY A LICENSED AND REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER AND SUBMITTED TO THE DCES IN ACCORDANCE WITH THE SCM.

THE DESIGN OF THIS STRUCTURE ASSUMES THAT THE STRUCTURAL STEEL IS COMPLETELY ERECTED BEFORE IT IS ALLOWED TO DEFLECT UNDER ITS OWN DEAD LOAD, DEFLECTIONS INCURRED DURING THE VARIOUS STAGES OF THE ERECTION METHOD ARE NOT CONSIDERED. THEREFORE, THE ACTUAL ERECTION METHODS AND SEQUENCES EMPLOYED BY THE CONTRACTOR MAY HAVE A SUBSTANTIAL EFFECT ON THE FINAL STEEL PROFILE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY COMPENSATORY ACTION TO ENSURE THAT THE FINAL ALIGNMENT AND PROFILE OF THE ERECTED STEEL CONFORMS TO SUBSECTION 1213, 1214, AND 1215 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). ANY CORRECTIVE WORK NECESSARY TO RE-POSITION PREVIOUSLY ERECTED STEEL TO ACHIEVE ACCEPTABLE ALIGNMENT AND PROFILE MUST BE APPROVED BY THE DCES, AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE COUNTY.

SUPERSTRUCTURE SLAB NOTES:

THE PROVISIONS OF THE CURRENT SPECIFICATIONS FOR SUPERSTRUCTURE SLABS ALLOW THE OPTION OF 3 FORMING SYSTEMS FOR THE UNDERSIDE OF THE SLABS. HOWEVER ON THIS BRIDGE, ONLY THE FOLLOWING OPTION WILL BE PERMITTED: REMOVABLE WOODEN FORMS (PLYWOOD MUST BE APA RATED).

THE CONTRACTOR SHALL SUBMIT A PLAN, TO THE ENGINEER THIRTY (30) DAYS PRIOR TO FORMING THE DECK SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, DETAILING THE REMOVABLE WOODEN FORMING SYSTEM.

THE CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE HAUNCH DETAILS SHOWN ON THESE PLANS WITHOUT THE PERMISSION OF THE ENGINEER.

FOR BIN 3321770, SHOP DRAWING SUBMITTALS ARE REQUIRED FOR THE FOLLOWING RAIL/TRANSITION ITEMS: 606.11 AND 606.110002.

TOP SURFACES OF NEW BRIDGE DECKS AND APPROACH SLABS SHALL BE SEALED IN ACCORDANCE WITH ITEM 559.18960118 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS.

REMOVAL NOTES:

EXISTING SUBSTRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19.

EXISTING SUPERSTRUCTURE SHALL BE REMOVED UNDER ITEM 202.12120001.

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 AVAILABLE AT THE CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS.

SUPERSTRUCTURE (OR SUBSTRUCTURE) REMOVAL NOTES:

LIMITS AND METHODS FOR REMOVAL OF PAINT AT LOCATIONS OF FASTENER REMOVAL OR FLAME CUTTING SHALL BE AS DESCRIBED IN §202-3.05 AND §574 OF THE STANDARD SPECIFICATIONS. THE COST OF PAINT REMOVAL SHALL BE INCLUDED IN THE LUMP SUM PRICE(S) BID FOR THE SUPERSTRUCTURE REMOVAL ITEM(S) (OR THE UNIT PRICE BID FOR THE SUBSTRUCTURE REMOVAL ITEM). PAINT WASTE NOT COLLECTED BY VACUUM METHODS SHALL BE COLLECTED USING THE ENVIRONMENTAL GROUND AND/OR WATERWAY PROTECTION ITEM(S). WASTE SHALL BE DISPOSED OF USING THE TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE ITEM.

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 THE 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 VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL. THE COST OF FIELD VERIFYING DIMENSIONS SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL ITEMS.

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 STATE, 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 STATE, 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 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.

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.

OLEAN CREEK IS CLASSIFIED BY THE NYSDEC AS A PROTECTED CLASS "A," STANDARD "A" STREAM. THE CONTRACTOR IS ADVISED THAT IT IS ANTICIPATED IN-STREAM WORK WILL BE PROHIBITED BEGINNING OCTOBER 16 AND ENDING MAY 14 DUE TO FISH AND MUSSEL REQUIREMENTS.



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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to offer an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.



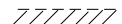
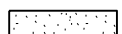
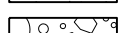
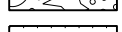
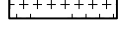





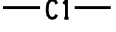
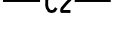
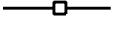
PROJECT/CLIENT
HINSDALE BRIDGE 62 COUNTY ROAD 26
(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
GENERAL NOTES

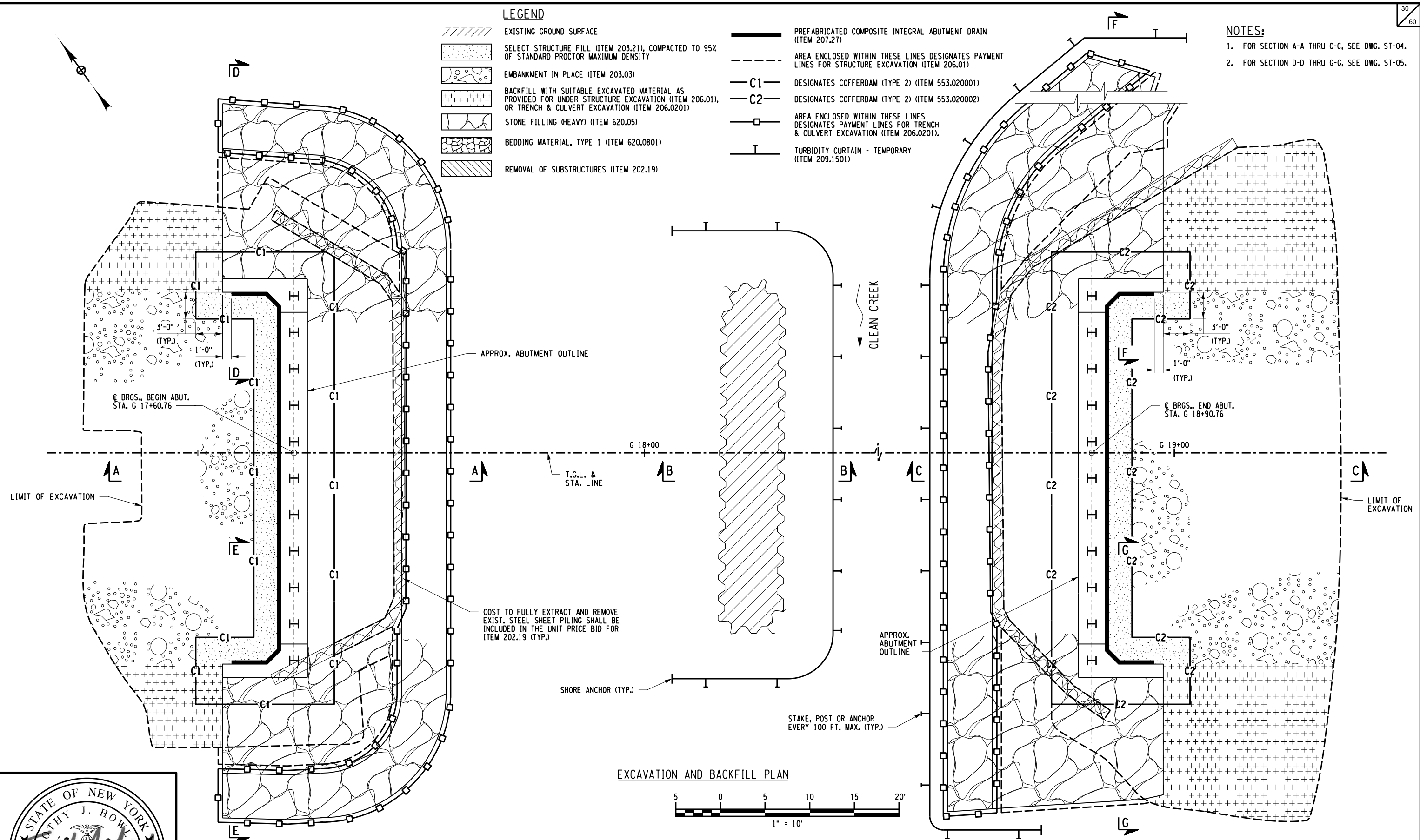
PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
ST-02

PROJECT MANAGER: VLG
DESIGNER: TUH
ENGINEER: BRM
PLOTDRVR: pdf_cohr_half.ctb
MODEL: ST-02
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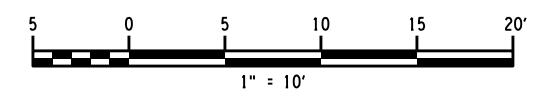
LEGEND

-  EXISTING GROUND SURFACE
-  SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
-  EMBANKMENT IN PLACE (ITEM 203.03)
-  BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01), OR TRENCH & CULVERT EXCAVATION (ITEM 206.0201)
-  STONE FILLING (HEAVY) (ITEM 620.05)
-  BEDDING MATERIAL, TYPE 1 (ITEM 620.0801)
-  REMOVAL OF SUBSTRUCTURES (ITEM 202.19)
-  PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN (ITEM 207.27)
-  AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
-  DESIGNATES COFFERDAM (TYPE 2) (ITEM 553.020001)
-  DESIGNATES COFFERDAM (TYPE 2) (ITEM 553.020002)
-  AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH & CULVERT EXCAVATION (ITEM 206.0201).
-  TURBIDITY CURTAIN - TEMPORARY (ITEM 209.1501)

- NOTES:**
1. FOR SECTION A-A THRU C-C, SEE DWG. ST-04.
 2. FOR SECTION D-D THRU G-G, SEE DWG. ST-05.



EXCAVATION AND BACKFILL PLAN



PLOTDRWR: pdf_cobor_half.ctb
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 DATE: 10/26/2019 11:55:10 AM
 PROJECT MANAGER:

BRM: ENGINEER
 TUH: DESIGNER
 VLG:



NO.	REVISION	BY	DATE
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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.



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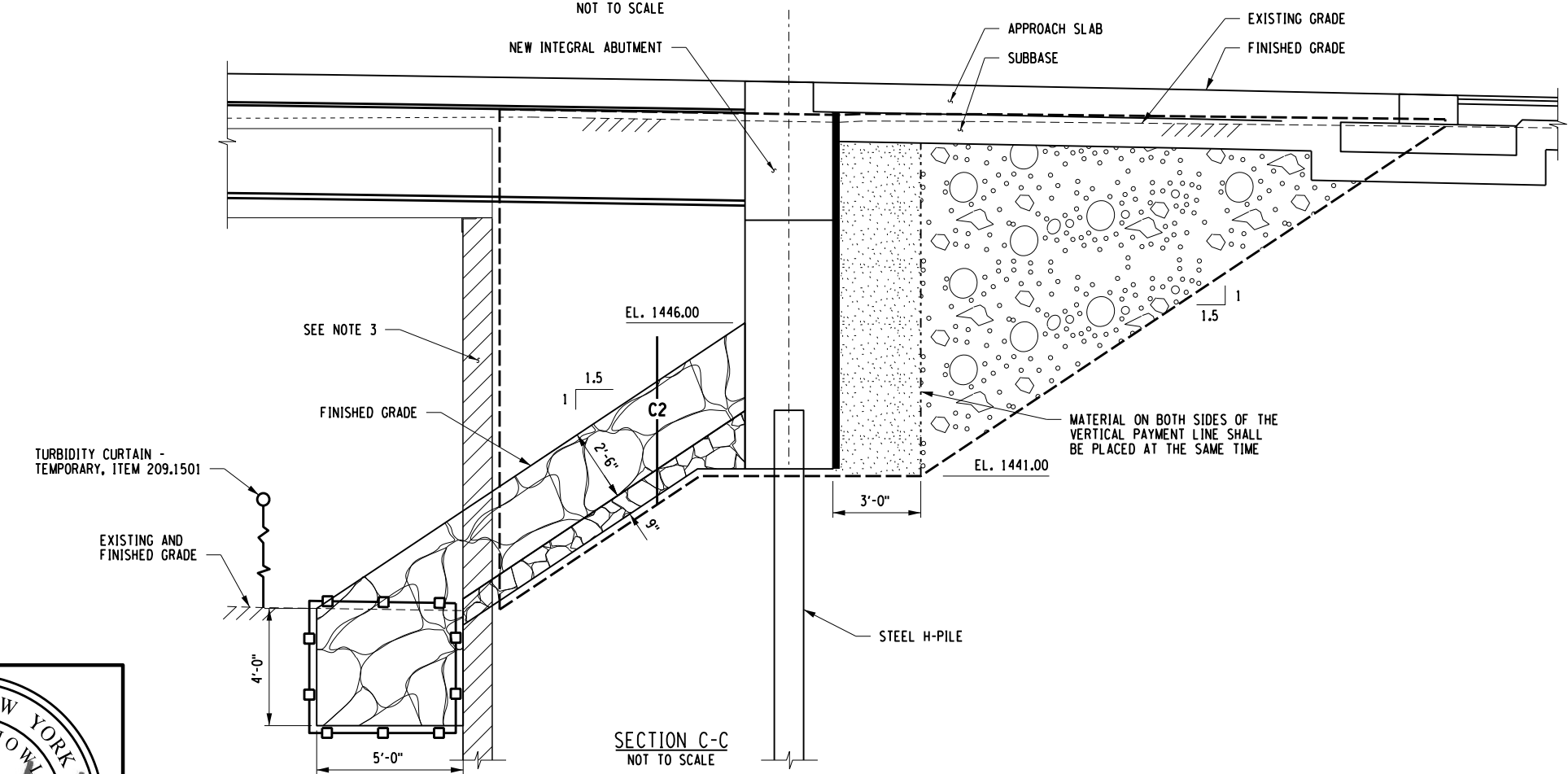
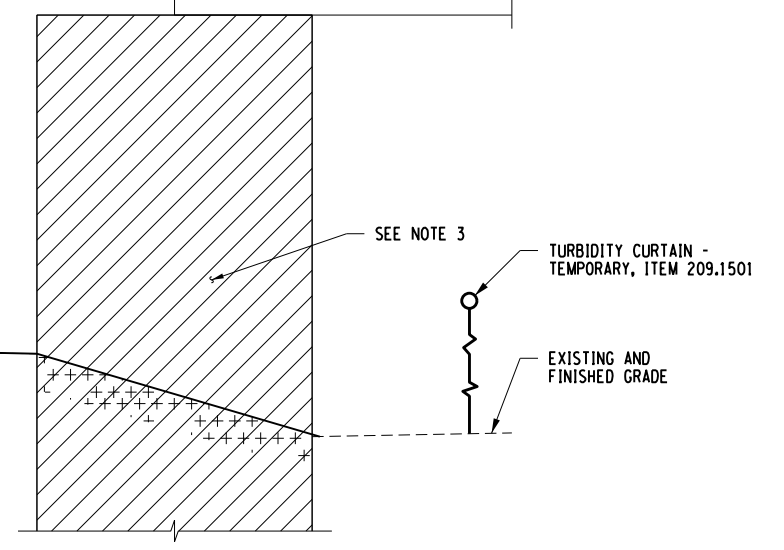
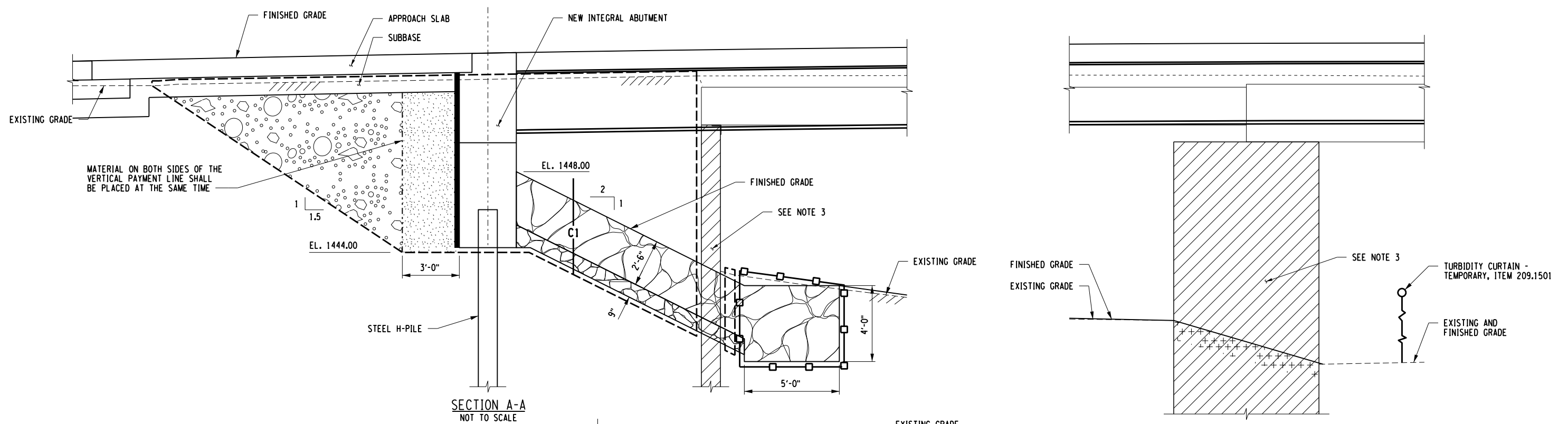
PROJECT CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
EXCAVATION AND BACKFILL PLAN

PROJECT NUMBER
 2181139

DATE
 OCTOBER 2019

DRAWING NUMBER
 ST-03



- NOTES:**
1. FOR LOCATION OF SECTIONS A-A THRU C-C, SEE DWG. ST-03.
 2. FOR LEGEND, SEE DWG. ST-03.
 3. COST TO FULLY EXTRACT AND REMOVE EXIST. STEEL SHEET PILING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 202.19 (TYP.)

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 PROJECT MANAGER:

BRM ENGINEER: TUH DESIGNER: VLG



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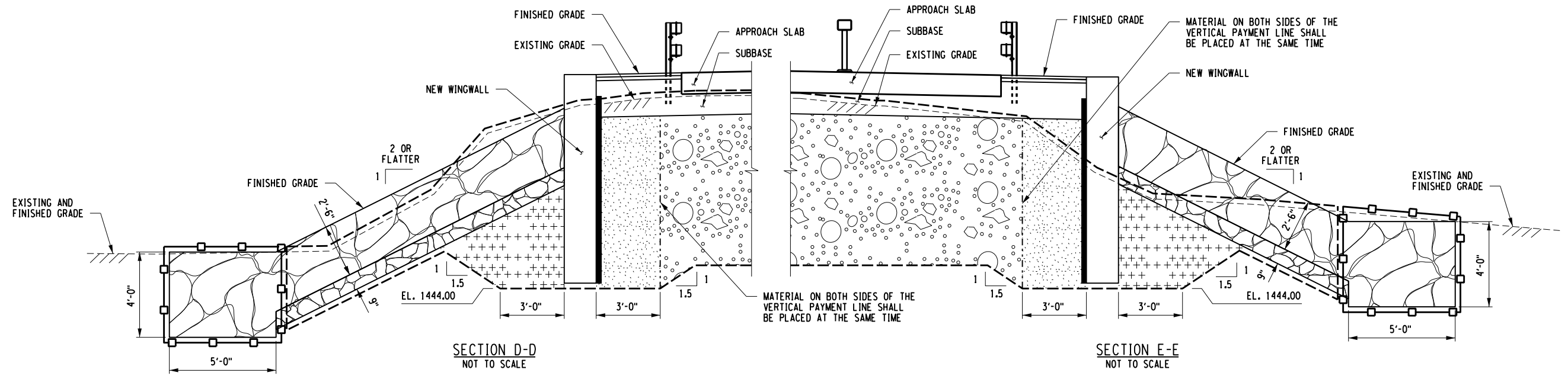


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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

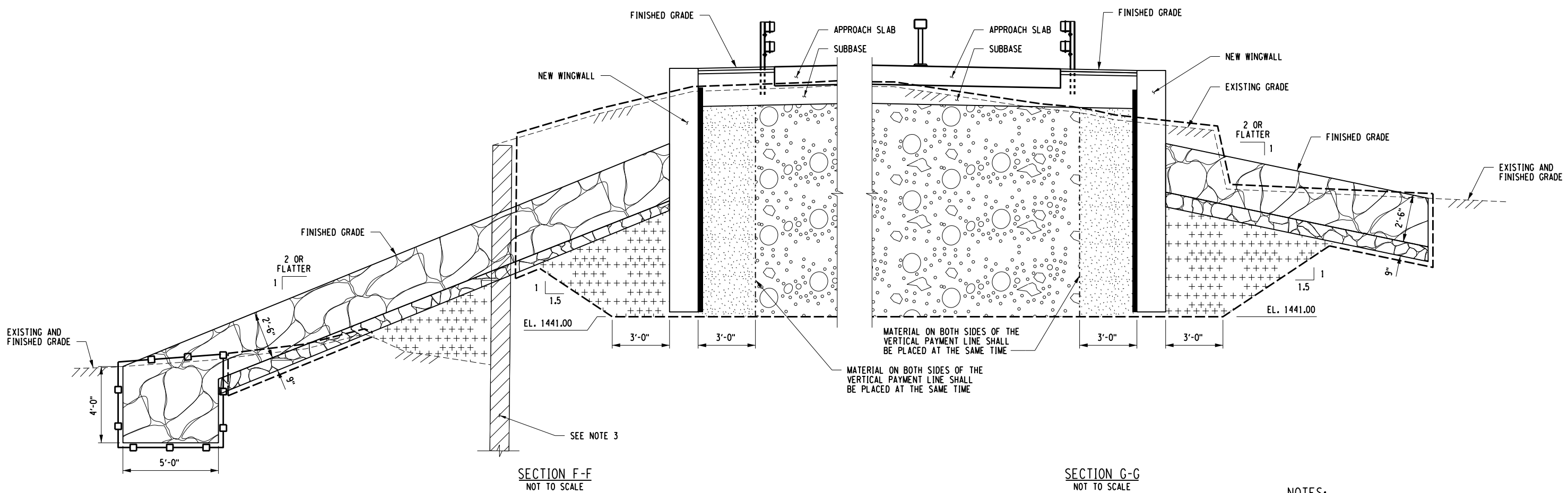
DRAWING TITLE
 EXCAVATION AND BACKFILL SECTIONS
 (1 OF 2)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-04



SECTION D-D
NOT TO SCALE

SECTION E-E
NOT TO SCALE



SECTION F-F
NOT TO SCALE

SECTION G-G
NOT TO SCALE

- NOTES:**
1. FOR LOCATION OF SECTIONS D-D THRU G-G, SEE DWG. ST-03.
 2. FOR LEGEND, SEE DWG. ST-03.
 3. COST TO FULLY EXTRACT AND REMOVE EXIST. STEEL SHEET PILING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 202.19 (TYP.)

PROJECT MANAGER: BRM
ENGINEER: TUH
DESIGNER: VLG
PLOTDRVR: pdf_cohr_halfpctg
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NO.	REVISION	BY	DATE
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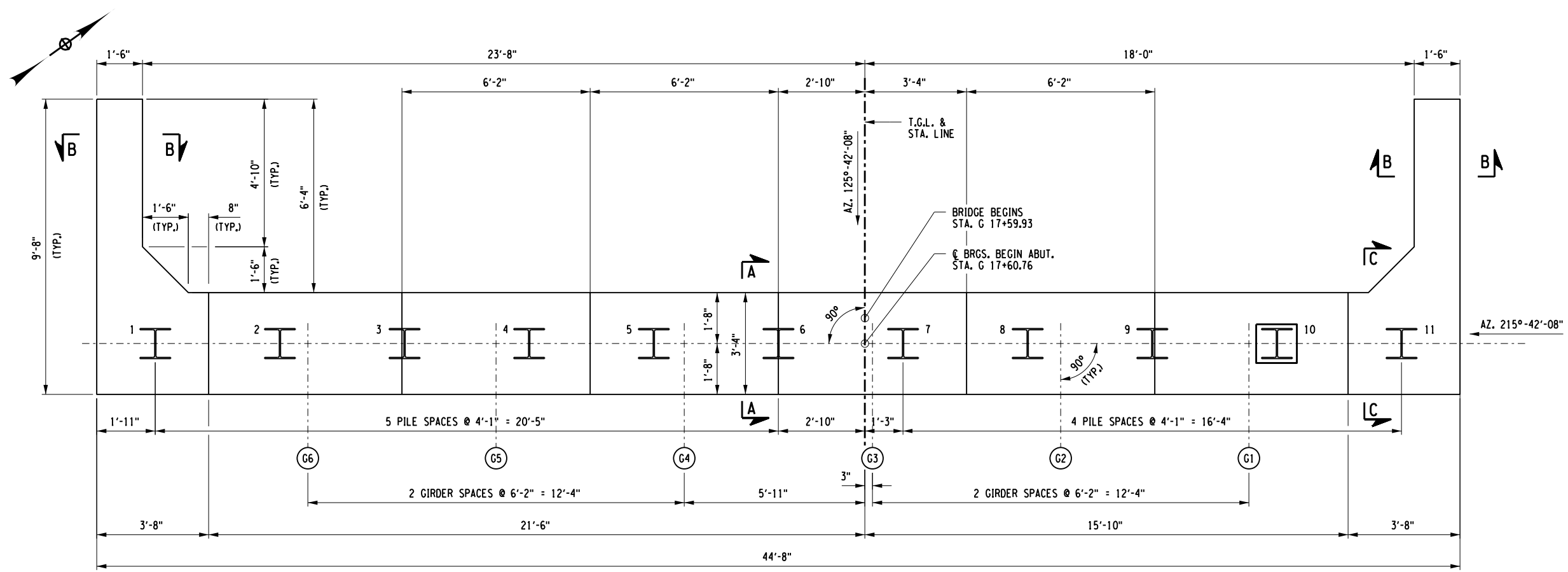
It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
EXCAVATION AND BACKFILL SECTIONS
(2 OF 2)

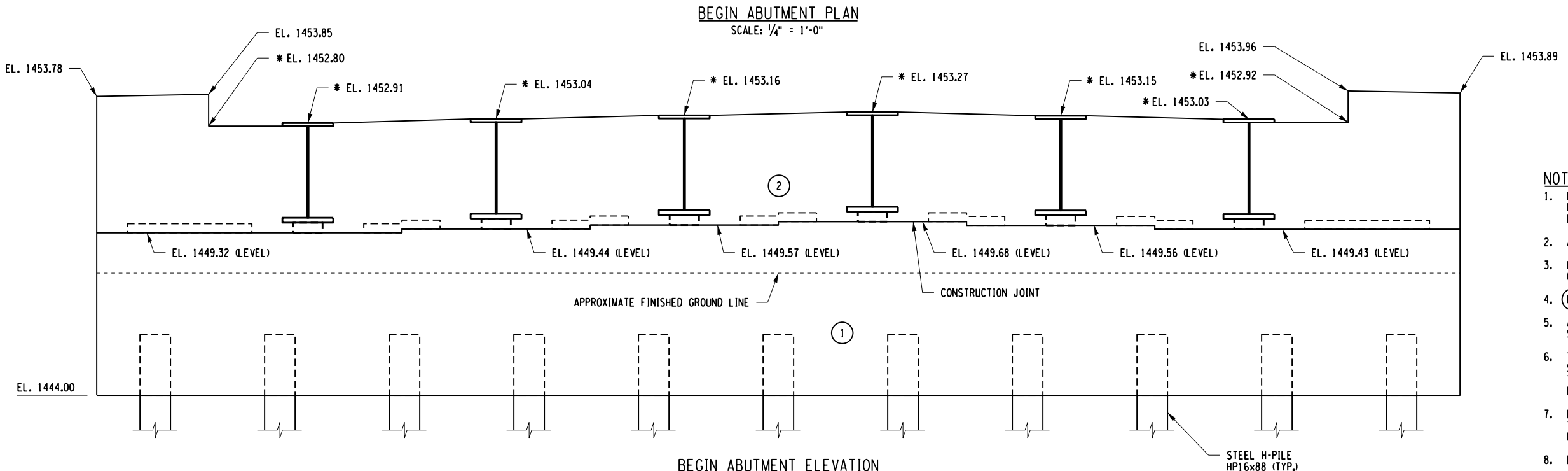
PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
ST-05



LEGEND	
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	DYNAMIC PILE TESTING, ITEM 551.14
	PILE CUT-OFF ELEVATION IS 1446.00
	THE ESTIMATED LENGTH OF PILE IS 93.0'

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
1	34.5 CY	555.09
2	23.8 CY	555.09

PILE TABLE	
PILE NO.	LENGTH BELOW CUT-OFF
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	



- NOTES:**
- FOR SECTIONS A-A THRU C-C SEE DWG. NO. ST-12. FOR REINFORCEMENT, SEE DWG. NO. ST-07 AND ST-08. FOR CONSTRUCTION JOINT DETAILS, SEE DWG. NO. ST-21.
 - ALL CONSTRUCTION JOINTS SHALL HAVE TYPE D WATERSTOPS.
 - HORIZONTAL KEYWAYS TO STOP 1'-0" FROM SUPPORT PLATE AND FACE OF CONCRETE POUR.
 - (NO.) INDICATES CONCRETE PLACEMENT NUMBER.
 - ALL EXPOSED SURFACES OF THE ABUTMENT AND WINGWALLS SHALL BE SEALED UNDER ITEM 559.16960118.
 - THE BEGIN ABUTMENT PILES ARE DESIGNED TO SUPPORT A MAXIMUM STRENGTH LIMIT STATE AXIAL LOAD OF 153 KIPS PER PILE. DRIVE THESE PILES TO PRACTICAL REFUSAL (20 BLOWS PER INCH), AND A MINIMUM NOMINAL RESISTANCE OF 240 KIPS PER PILE.
 - DRIVE THE PILES AT THE BEGIN ABUTMENT TO A MINIMUM LENGTH OF 73 FEET. THE ENGINEER WILL IMMEDIATELY CONTACT THE DECS IF THE MINIMUM LENGTH IS NOT ACHIEVED.
 - DO NOT USE MECHANICAL PILE SPLICES ON THIS STRUCTURE.
 - EQUIP ALL STEEL BEARING PILES WITH REINFORCING SHOES.
 - AFTER COMPLETING THE PILE INSTALLATION, THE ENGINEER WILL COMPLETE THE "LENGTH BELOW CUT-OFF" TABLE FOR INCLUSION IN THE AS-BUILT PLANS.
- * THESE ELEVATIONS ARE TAKEN AT C OF BEARINGS.



PROJECT MANAGER: PL01DRVR pdr_cobor_halfpilotg
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NO.	REVISION	BY	DATE
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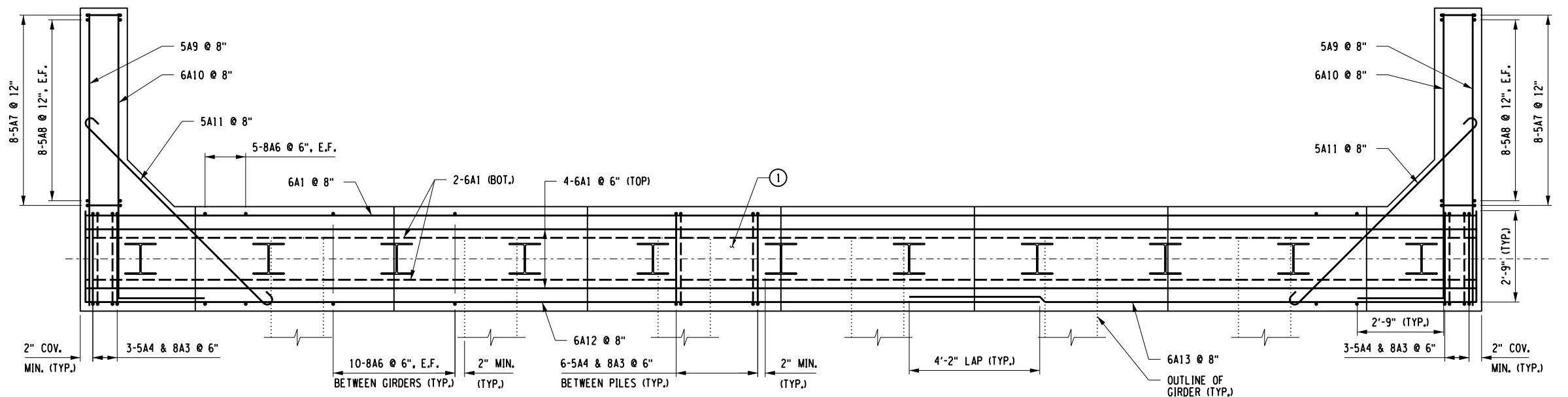
PROJECT CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
**BEGIN ABUTMENT
 PLAN AND ELEVATION**

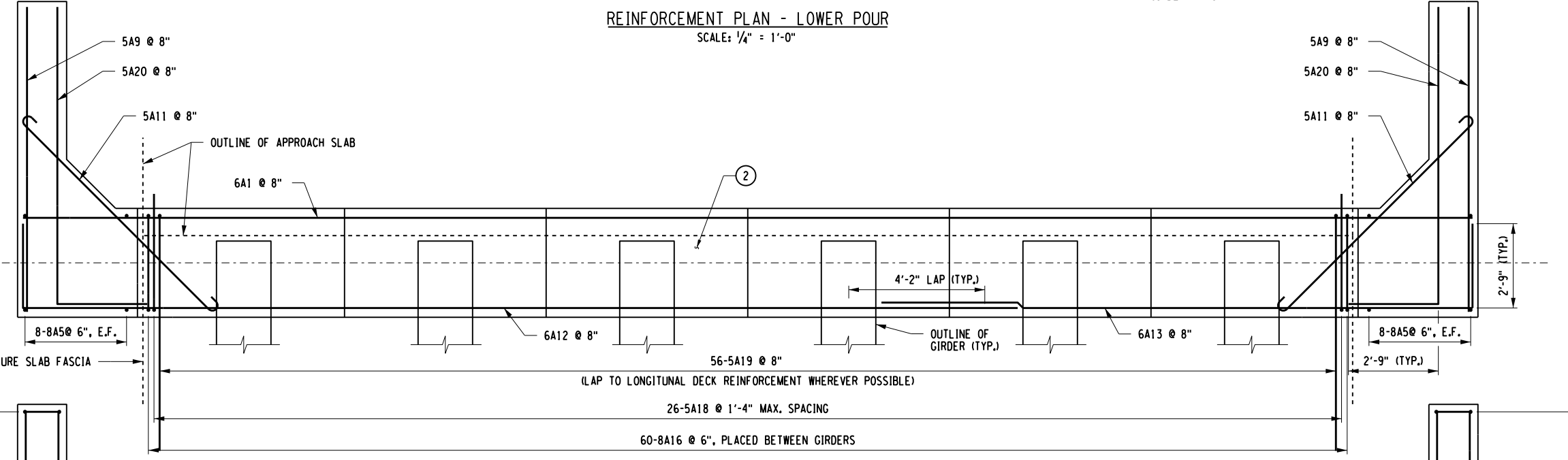
PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-06

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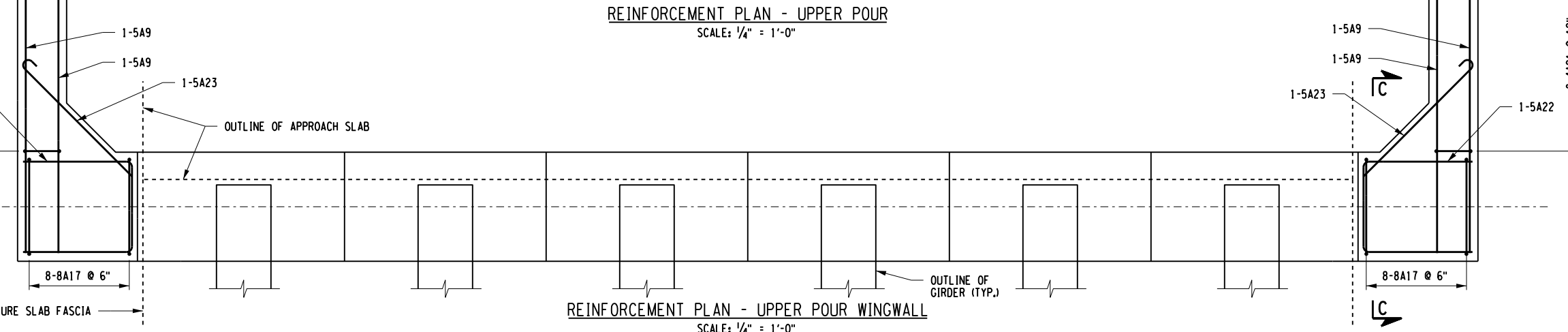
1. FOR SECTION C-C, SEE DWG. ST-12.
2. COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTES.
3. ALL REINFORCEMENT SHALL BE ASTM A1035 GRADE 100 CORROSION RESISTANT REINFORCING STEEL AND PAID FOR UNDER ITEM 556.10013011.
4. (NO.) INDICATES CONCRETE PLACEMENT NUMBER.



REINFORCEMENT PLAN - LOWER POUR
SCALE: 1/4" = 1'-0"



REINFORCEMENT PLAN - UPPER POUR
SCALE: 1/4" = 1'-0"



REINFORCEMENT PLAN - UPPER POUR WINGWALL
SCALE: 1/4" = 1'-0"

PLOTDRW: pdf_color_half.ctb
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 DATE: 10/20/19 11:08:15 AM
 PROJECT MANAGER:

BRM
 ENGINEER:
 TUH
 DESIGNER:
 VLG



NO.	REVISION	BY	DATE
1			
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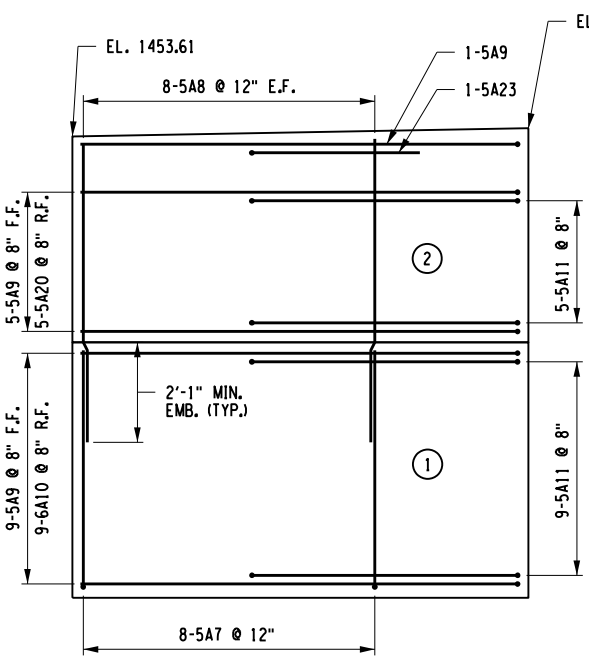
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 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
**BEGIN ABUTMENT
 REINFORCEMENT PLANS**

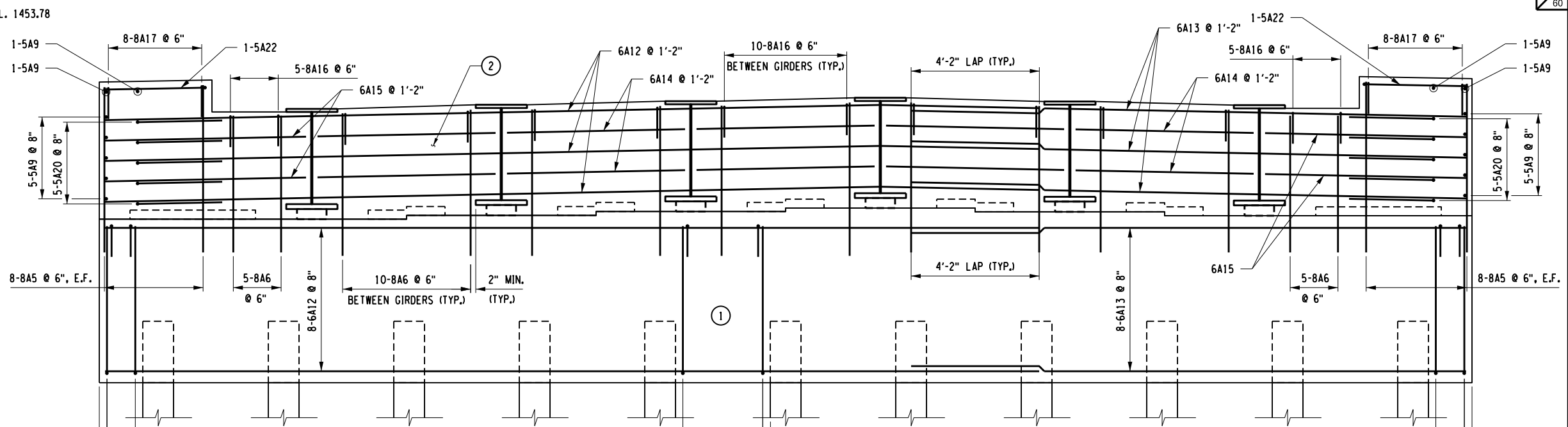
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DATE
 OCTOBER 2019

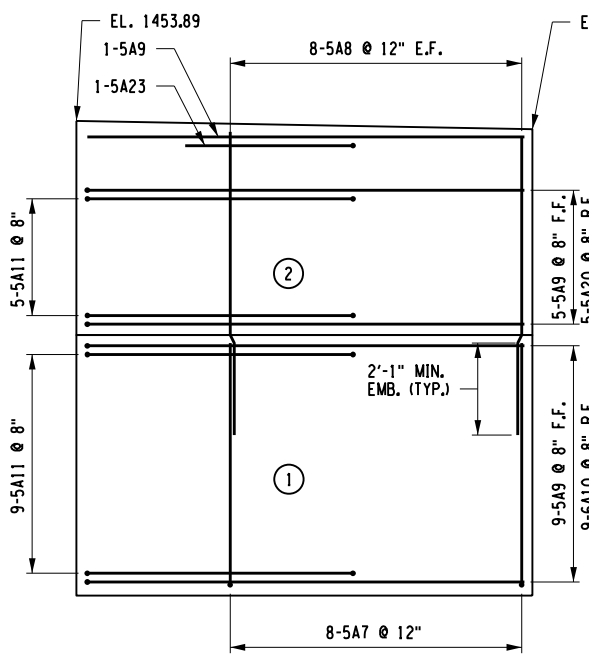
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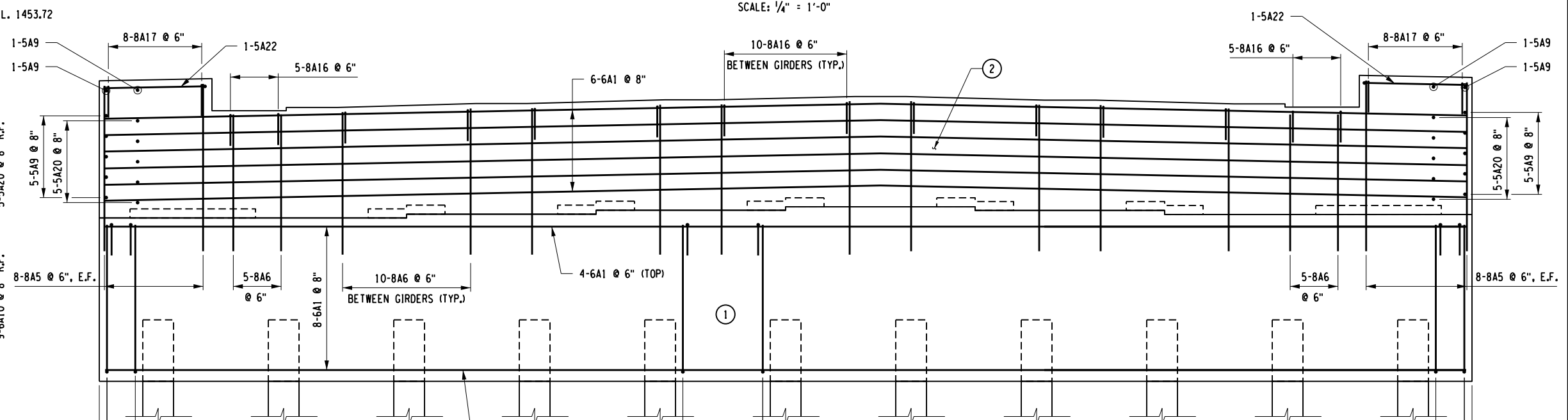
SOUTHWEST WINGWALL REINFORCEMENT ELEVATION
SCALE: 1/4" = 1'-0"



FRONT FACE REINFORCEMENT ELEVATION
SCALE: 1/4" = 1'-0"



NORTHWEST WINGWALL REINFORCEMENT ELEVATION
SCALE: 1/4" = 1'-0"



REAR FACE REINFORCEMENT ELEVATION
SCALE: 1/4" = 1'-0"

PLOTDRVR: pdf_cobor_half.ctb
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 DATE: 10/20/2019 11:55:15 AM
 PROJECT MANAGER:

BRM ENGINEER: TUH DESIGNER: VLG



NO.	REVISION	BY	DATE
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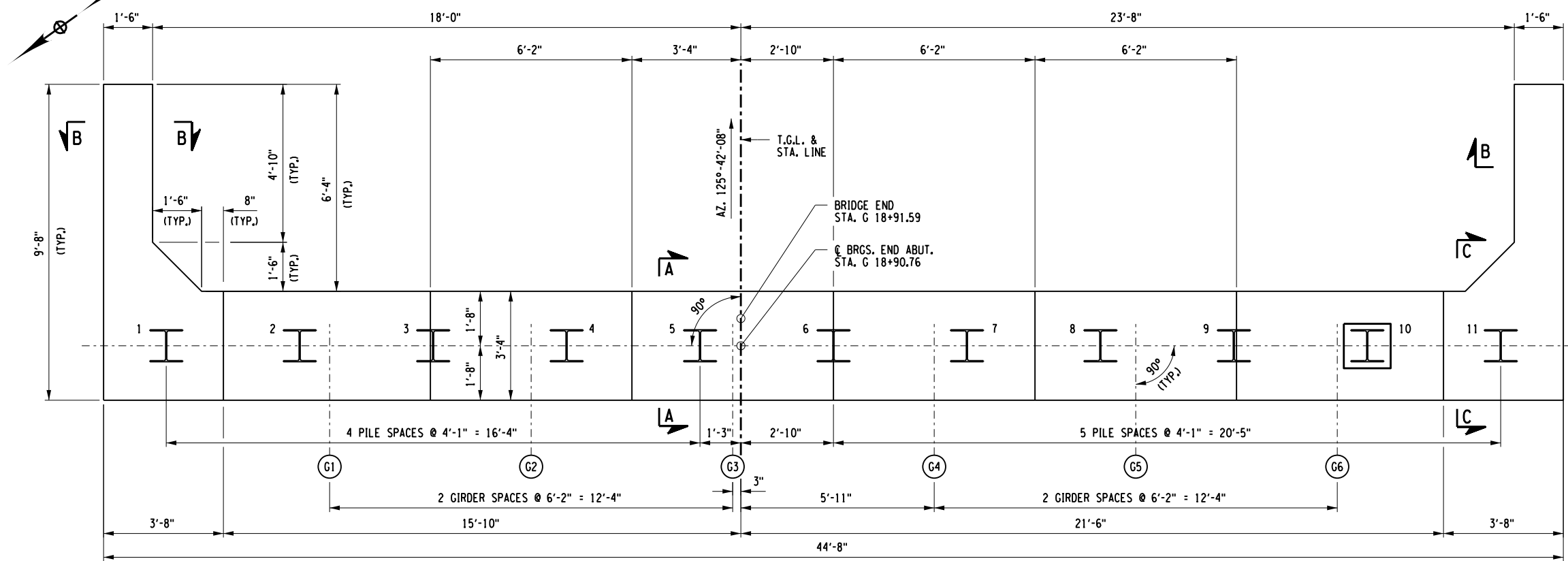


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PROJECT CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
**BEGIN ABUTMENT
 REINFORCEMENT ELEVATIONS**

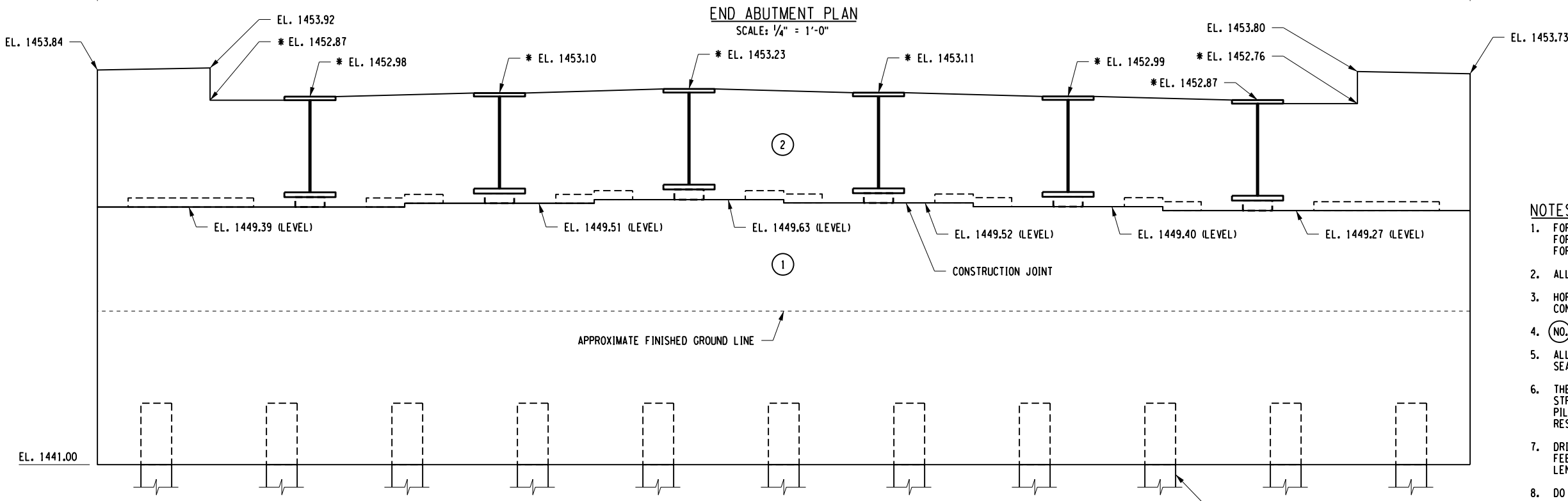
PROJECT NUMBER
2181139
 DATE
OCTOBER 2019
 DRAWING NUMBER
ST-08



LEGEND	
	STEEL H-PILE HP 16x88, ITEM 551.016088
	DYNAMIC PILE TESTING, ITEM 551.14
PILE CUT-OFF ELEVATION IS 1443.00	
THE ESTIMATED LENGTH OF PILE IS 90.0'	

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
1	53.1 CY	555.09
2	23.8 CY	555.09

PILE TABLE	
PILE NO.	LENGTH BELOW CUT-OFF
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	



- NOTES:**
- FOR SECTIONS A-A THRU C-C SEE DWG. NO. ST-12. FOR REINFORCEMENT, SEE DWG. NO. ST-10 AND ST-11. FOR CONSTRUCTION JOINT DETAILS, SEE DWG. NO. ST-21.
 - ALL CONSTRUCTION JOINTS SHALL HAVE TYPE D WATERSTOPS.
 - HORIZONTAL KEYWAYS TO STOP 1'-0" FROM SUPPORT PLATE AND FACE OF CONCRETE POUR.
 - (NO.) INDICATES CONCRETE PLACEMENT NUMBER.
 - ALL EXPOSED SURFACES OF THE ABUTMENT AND WINGWALLS SHALL BE SEALED UNDER ITEM 559.16960118.
 - THE BEGIN ABUTMENT PILES ARE DESIGNED TO SUPPORT A MAXIMUM STRENGTH LIMIT STATE AXIAL LOAD OF 153 KIPS PER PILE. DRIVE THESE PILES TO PRACTICAL REFUSAL (20 BLOWS PER INCH), AND A MINIMUM NOMINAL RESISTANCE OF 240 KIPS PER PILE.
 - DRIVE THE PILES AT THE BEGIN ABUTMENT TO A MINIMUM LENGTH OF 70 FEET. THE ENGINEER WILL IMMEDIATELY CONTACT THE DECS IF THE MINIMUM LENGTH IS NOT ACHIEVED.
 - DO NOT USE MECHANICAL PILE SPLICES ON THIS STRUCTURE.
 - EQUIP ALL STEEL BEARING PILES WITH REINFORCING SHOES.
 - AFTER COMPLETING THE PILE INSTALLATION, THE ENGINEER WILL COMPLETE THE "LENGTH BELOW CUT-OFF" TABLE FOR INCLUSION IN THE AS-BUILT PLANS.
- * THESE ELEVATIONS ARE TAKEN AT C/O OF BEARINGS.

END ABUTMENT ELEVATION
SCALE: 1/4" = 1'-0"



NO.	REVISION	BY	DATE
1			
2			
3			
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PROJECT/CLIENT
HINSDALE BRIDGE 62 COUNTY ROAD 26
(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
**END ABUTMENT
PLAN AND ELEVATION**

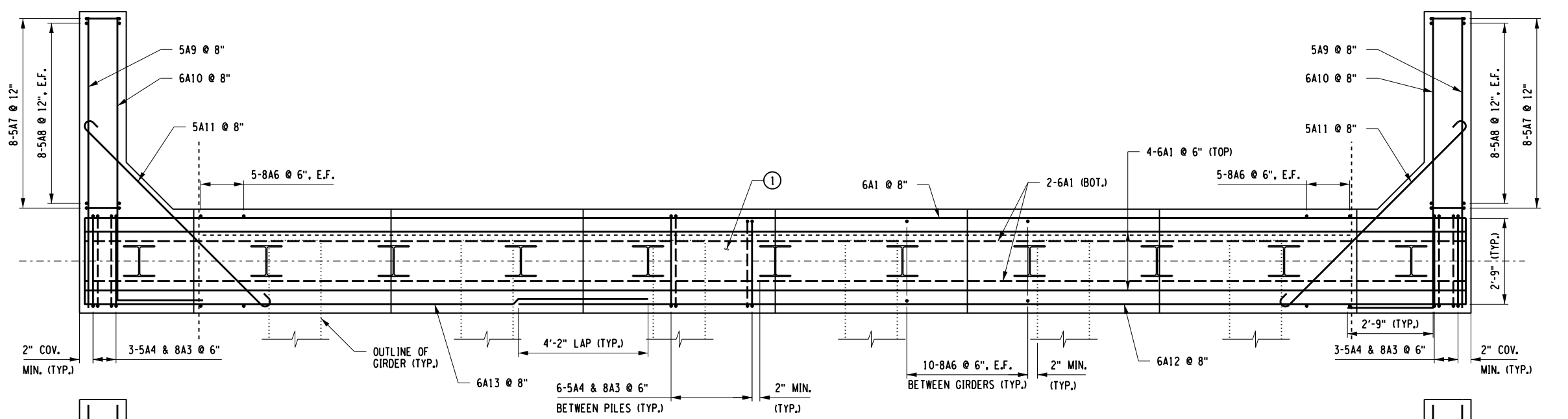
PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
ST-09

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 ENGINEER: TUH
 DESIGNER: VLG

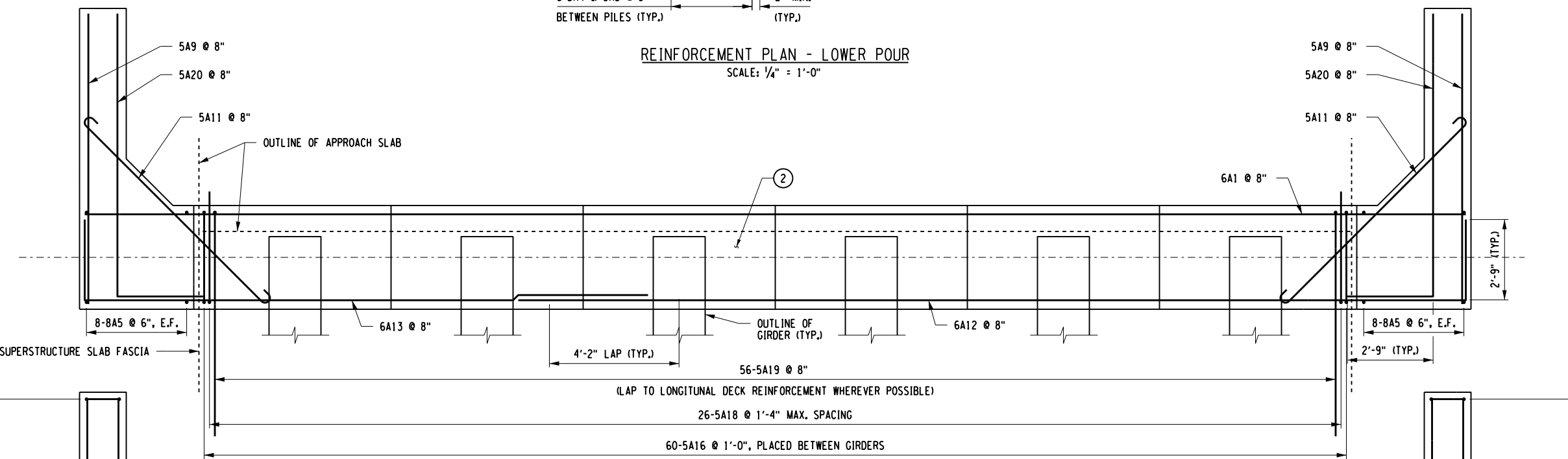
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NOTES:

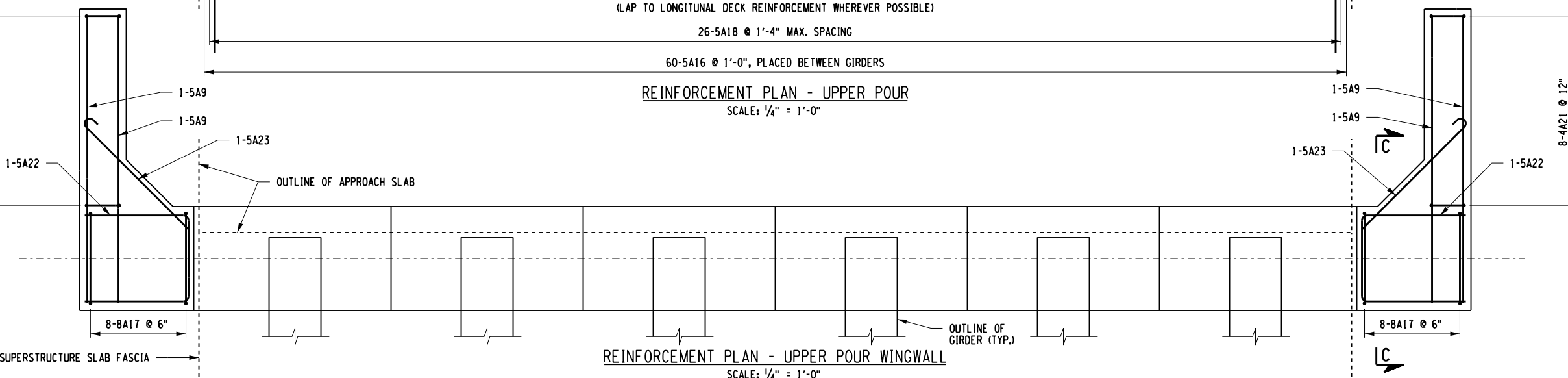
- FOR SECTION C-C, SEE DWG. ST-12.
- COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTES.
- ALL REINFORCEMENT SHALL BE ASTM A1035 GRADE 100 CORROSION RESISTANT REINFORCING STEEL AND PAID FOR UNDER ITEM 556.10013011.
- (NO.) INDICATES CONCRETE PLACEMENT NUMBER.



REINFORCEMENT PLAN - LOWER POUR
SCALE: 1/4" = 1'-0"



REINFORCEMENT PLAN - UPPER POUR
SCALE: 1/4" = 1'-0"



REINFORCEMENT PLAN - UPPER POUR WINGWALL
SCALE: 1/4" = 1'-0"

PLOTRVR pdf Color_half.ctb
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 ENGINEER: TUH
 DESIGNER: VLG



NO.	REVISION	BY	DATE
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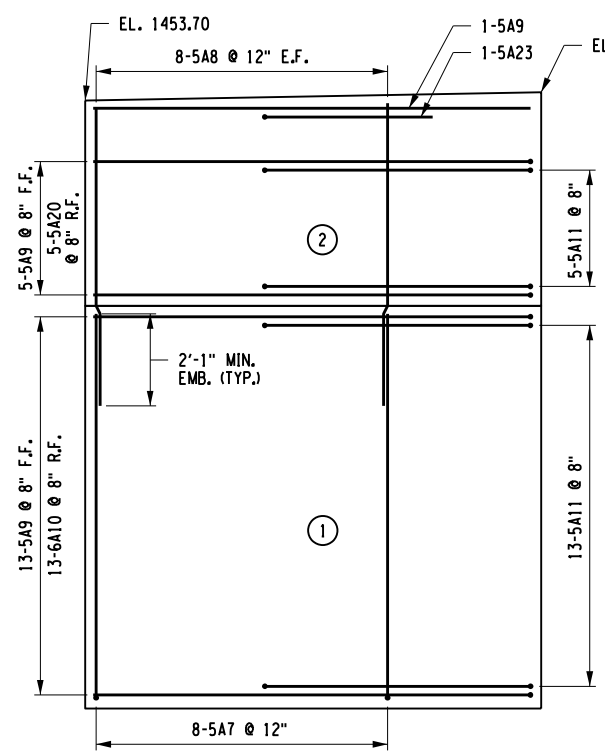


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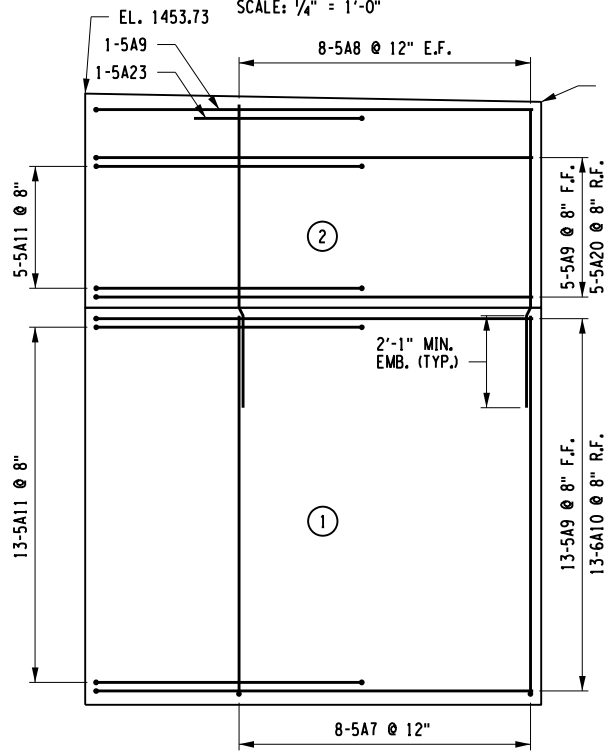
PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
**END ABUTMENT
 REINFORCEMENT PLANS**

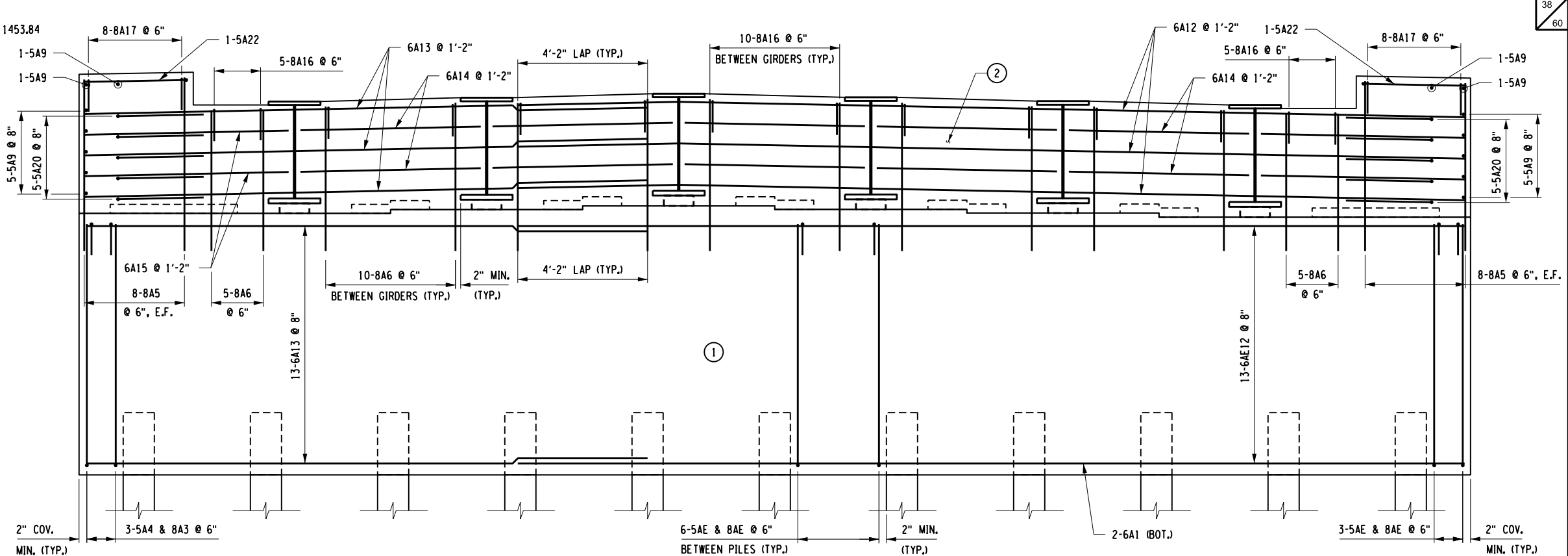
PROJECT NUMBER
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 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-10



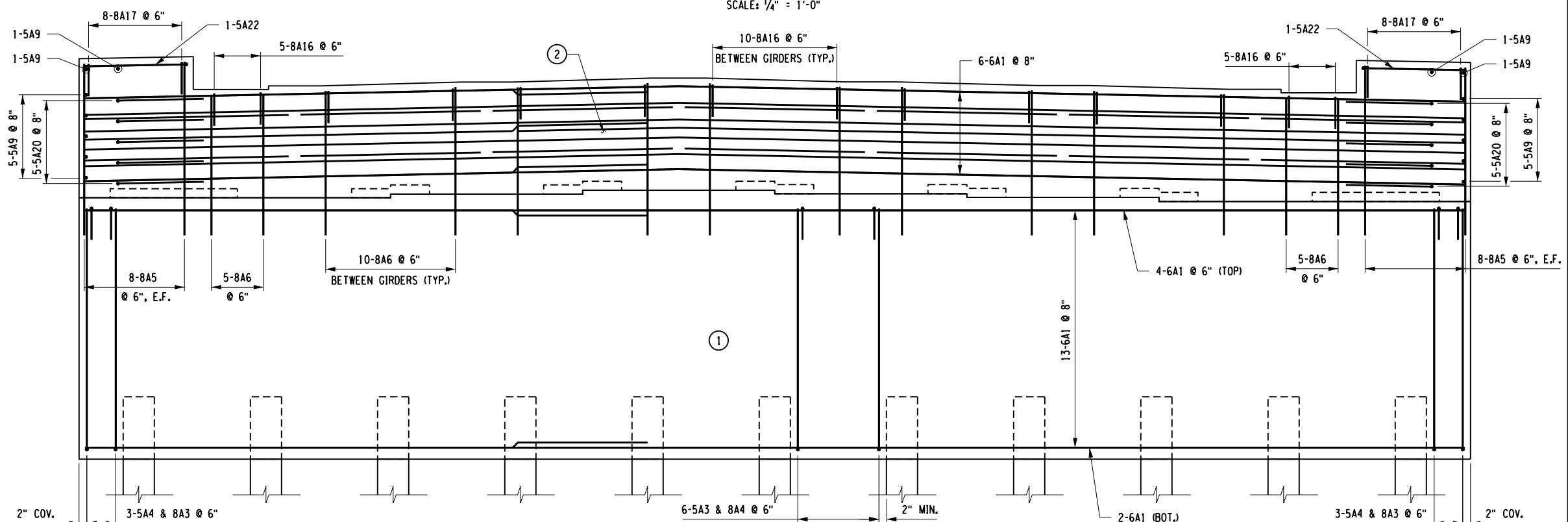
NORTHEAST WINGWALL REINFORCEMENT ELEVATION



SOUTHEAST WINGWALL REINFORCEMENT ELEVATION



FRONT FACE REINFORCEMENT ELEVATION



REAR FACE REINFORCEMENT ELEVATION



PROJECT MANAGER: BRM
ENGINEER: TUH
DESIGNER: VLG
PLOTDRWR: pdf_color_half.dwg
MODEL: ST-11
LOCATION: C:\cattaraugus\County\321139 - Hinsdale Bridge\Drawings\Structural\Plans\321170_crb_atc_dtl_end.dgn
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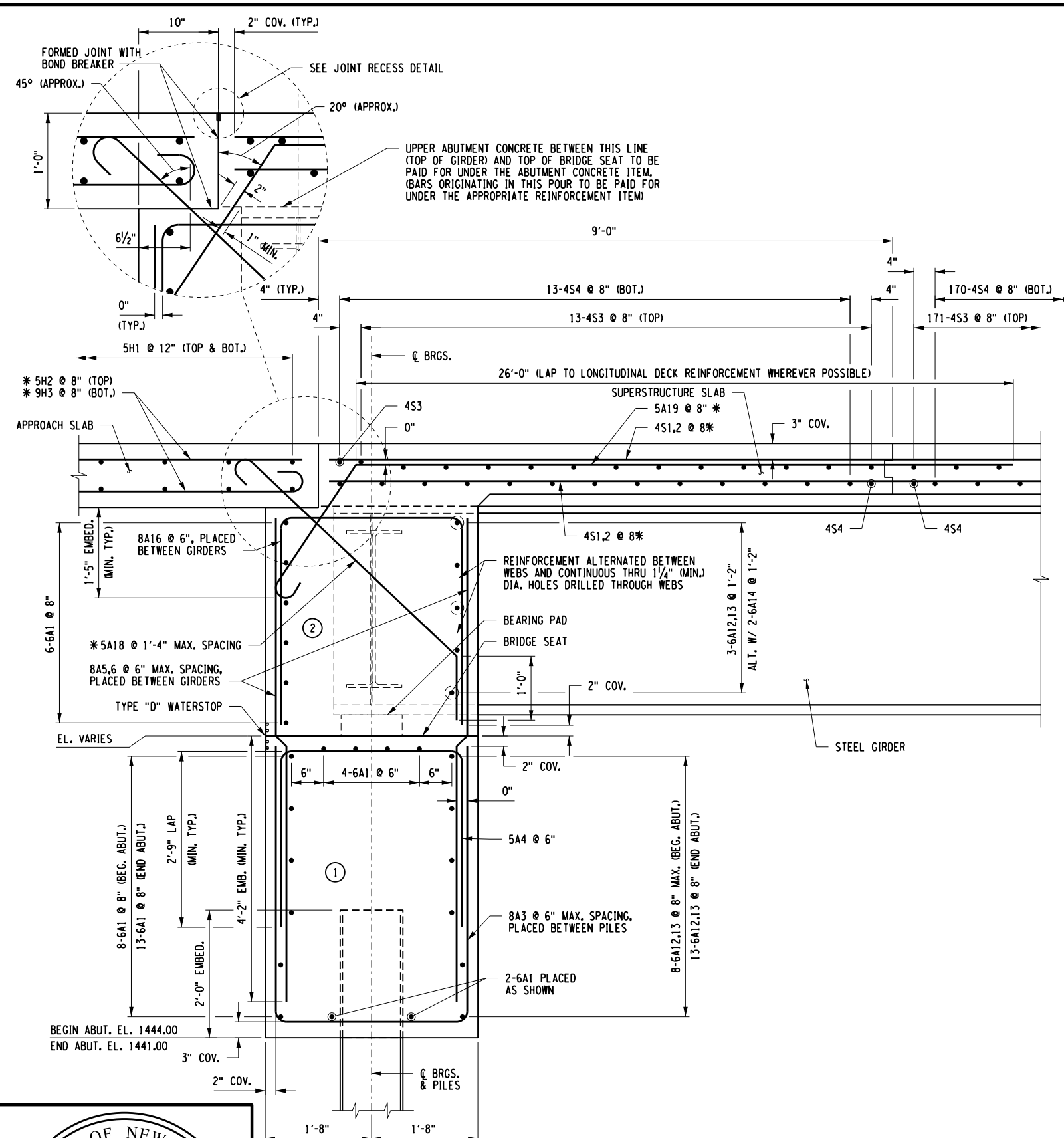
NO.	REVISION	BY	DATE
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PROJECT/CLIENT
HINSDALE BRIDGE 62 COUNTY ROAD 26
(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
END ABUTMENT
REINFORCEMENT ELEVATIONS

PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
ST-11



INTEGRAL ABUTMENT SECTION A-A
NOT TO SCALE

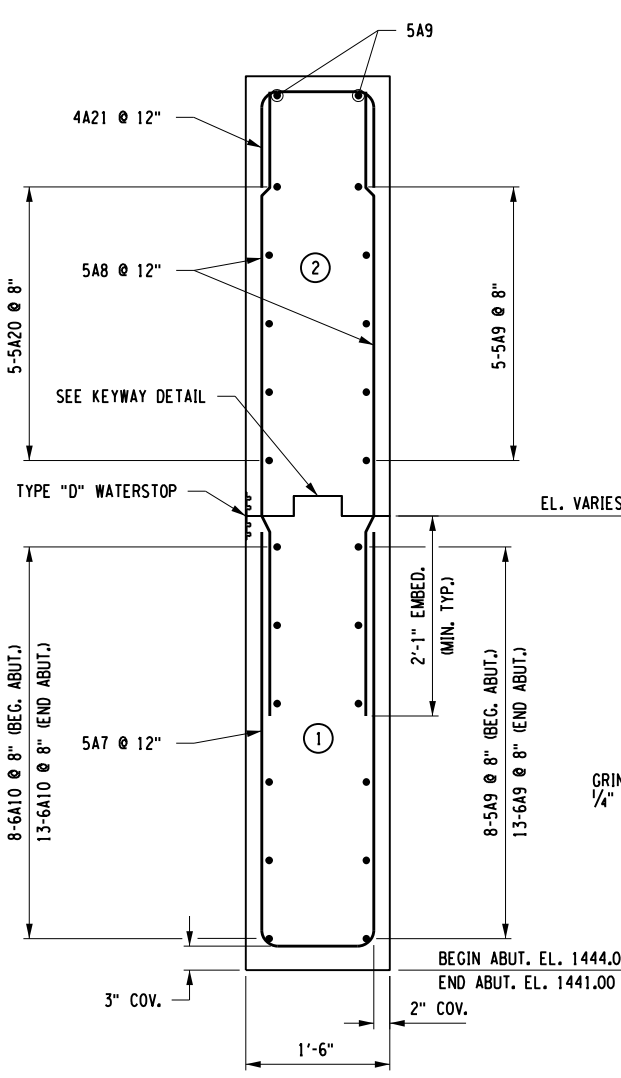
* SPACINGS SHOWN FOR THESE BARS ARE PARALLEL TO STATION LINE OR BEAMS.

NOTES:

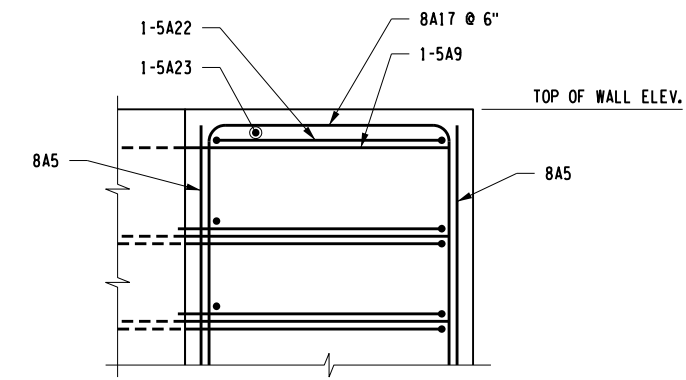
- FOR LOCATION OF SECTIONS A-A & B-B, SEE DWGS. ST-06 & ST-09.
- FOR LOCATION OF SECTION C-C, SEE DWGS. ST-07 & ST-10.
- ALL REINFORCEMENT SHALL BE ASTM A1035 GRADE 100 CORROSION RESISTANT REINFORCING STEEL AND PAID FOR UNDER ITEM 556.10013011.
- (NO.) INDICATES CONCRETE PLACEMENT NUMBER.
- BOND BREAKER SHALL CONFORM TO MATERIAL SPECIFICATION 712-12, ASPHALT ROOFING FELT.

**INTEGRAL ABUTMENT CONSTRUCTION PROCEDURE
STEEL SUPERSTRUCTURE WITH COTTON DUCK PAD SUPPORT**

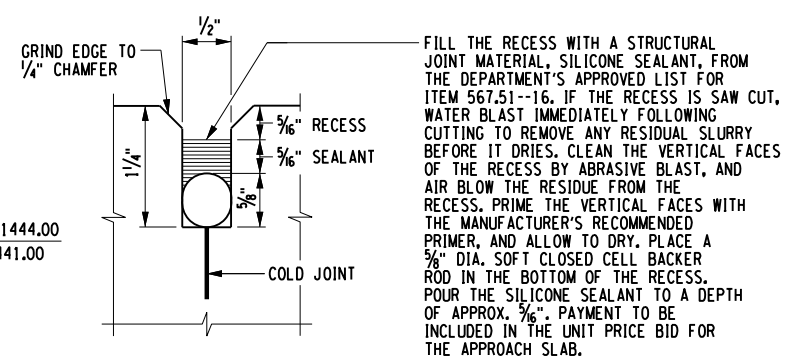
- DRIVE PILES AND CUT OFF PILES AT ELEVATIONS SHOWN.
- PLACE ABUTMENT STEM CONCRETE TO BRIDGE SEAT ELEVATION.
- BACKFILL ABUTMENT STEMS TO 6" BELOW THE BRIDGE SEAT ELEVATION. NO BACKFILL OF THE ABUTMENT STEMS ALLOWED UNTIL THE ABUTMENTS HAVE CURED FOR 7 DAYS.
- PLACE STONE FILL OR SLOPE PROTECTION.
- ERECT GIRDERS AND INSTALL ALL DIAPHRAGMS. GIRDERS SHALL BE FABRICATED AND ERECTED SUCH THAT THE WEBS WILL BE VERTICAL UNDER FULL DEAD LOAD.
- AT EACH END OF THE BRIDGE, PLACE CONCRETE FOR DECK SLAB TO WITHIN 9 FT. OF END OF SUPERSTRUCTURE SLAB.
- PLACE ABUTMENT BACKWALL AND REMAINING PORTION OF DECK CONCRETE. (ABUTMENT BACKWALL SHALL NOT BE PLACED UNTIL DECK SLAB HAS CURED FOR 3 DAYS.)
- BACKFILL ABUTMENT BACKWALLS. NO BACKFILLING OF THE ABUTMENT IS ALLOWED UNTIL BACKWALLS HAVE CURED FOR 7 DAYS. BACKFILLING SHALL BE CONDUCTED SUCH THAT THE MAXIMUM DIFFERENTIAL IN FILL HEIGHT BETWEEN THE TWO STEMS (AS MEASURED FROM THE BOTTOM OF THE STEM DOES NOT EXCEED 2 FT. IN ADDITION, THE FILL HEIGHT BEHIND ANY SINGLE ABUTMENT STEM SHALL NOT VARY MORE THAN 2 FT.
- PLACE CONCRETE FOR APPROACH SLABS.



WINGWALL SECTION B-B
NOT TO SCALE



WINGWALL SECTION C-C
NOT TO SCALE



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.

PROJECT MANAGER: VLJ
DESIGNER: TUH
ENGINEER: BRM
BRM
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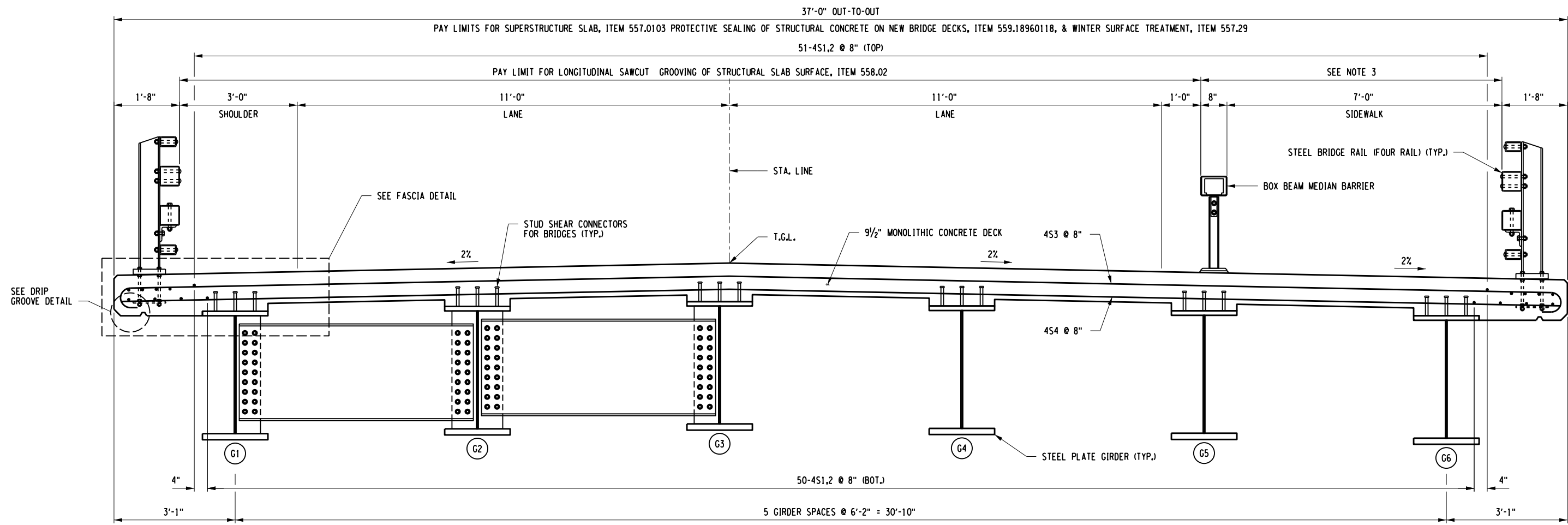


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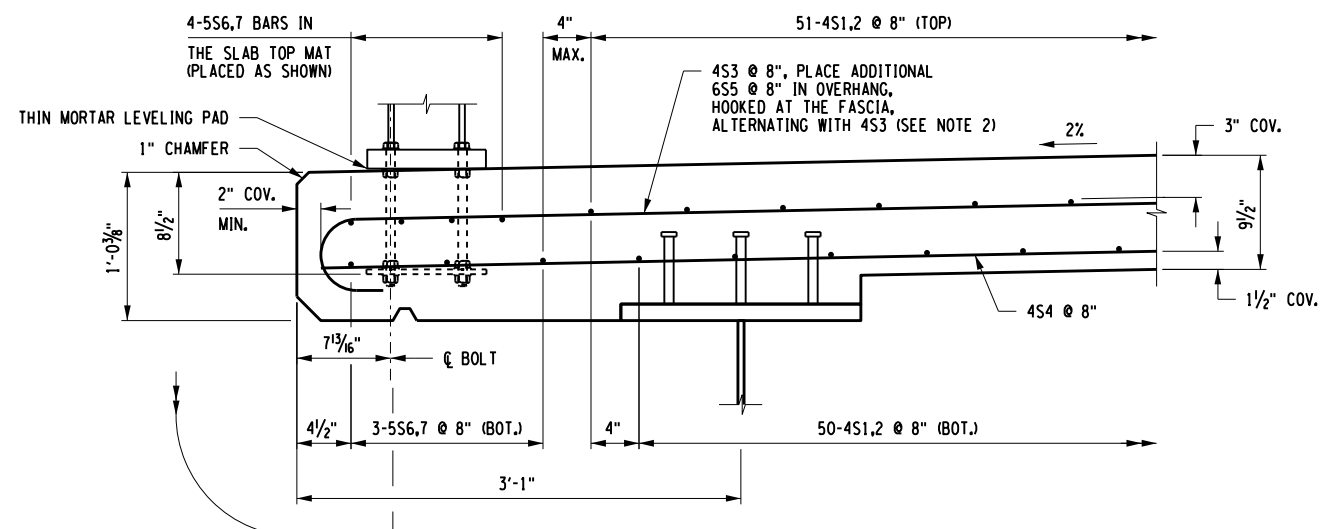
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(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

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SECTIONS**

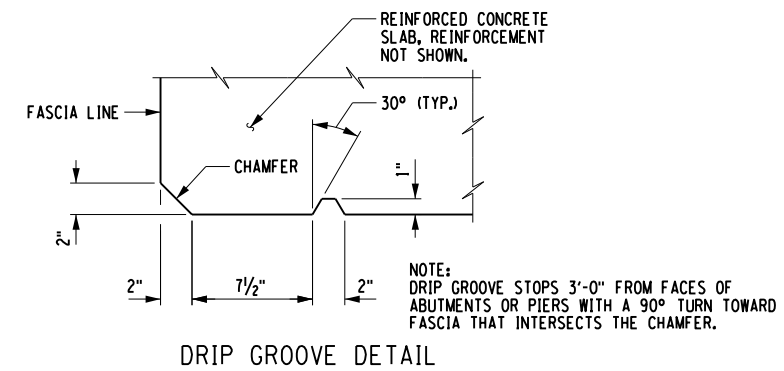
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DATE
OCTOBER 2019
DRAWING NUMBER
ST-12



BRIDGE SECTION
(LOOKING UPSTATION)
SCALE: 3/8" = 1'-0"



FASCIA DETAIL
(LOOKING UPSTATION)
SCALE: 3/4" = 1'-0"



DRIP GROOVE DETAIL

- NOTES:**
1. ALL REINFORCEMENT SHALL BE ASTM A1035 GRADE 100 CORROSION RESISTANT REINFORCING STEEL AND PAID FOR UNDER ITEM 556.10013011.
 2. *6 ADDITIONAL OVERHANG BARS TO BE EMBEDDED 2'-6" MIN. BEYOND THE FASCIA GIRDER CENTERLINE.
 3. PROVIDE A BROOM FINISH IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION SUBSECTION 557-3.10.

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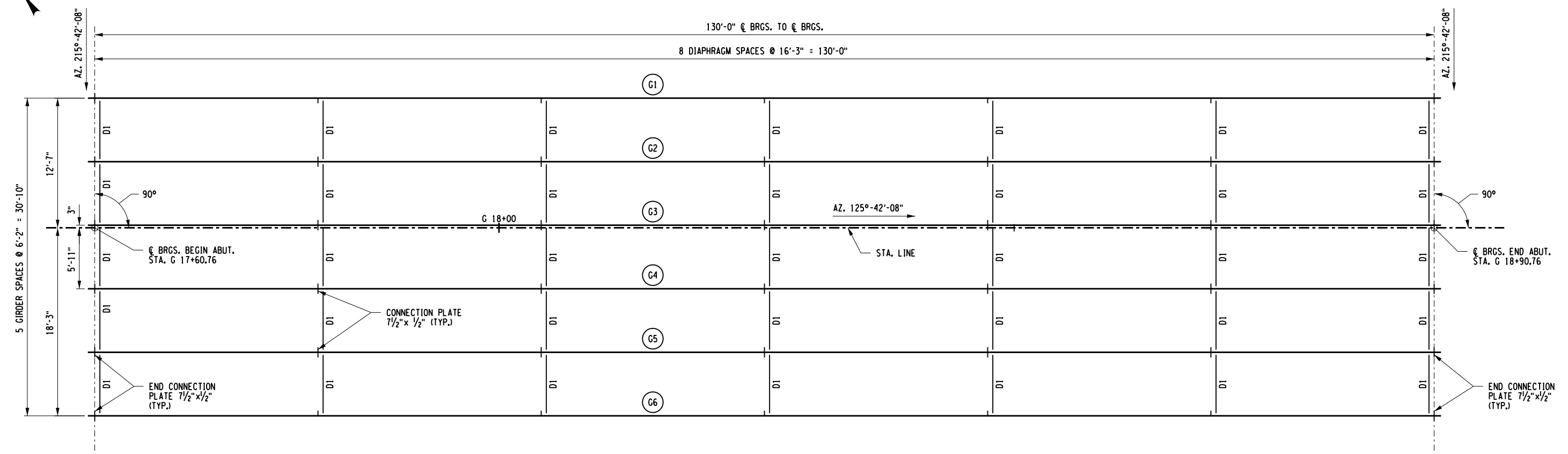


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PROJECT/CLIENT
**HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK**
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

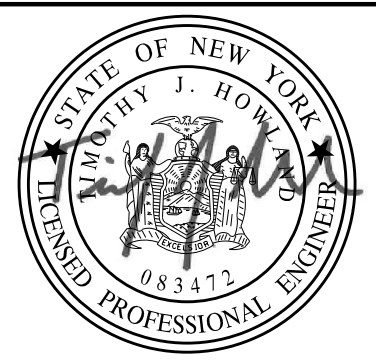
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TRANSVERSE BRIDGE SECTION

PROJECT NUMBER
2181139
 DATE
OCTOBER 2019
 DRAWING NUMBER
ST-13



FRAMING PLAN
SCALE: 1" = 10'-0"

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PROJECT MANAGER: VLG
DESIGNER: TUH
ENGINEER: BRM



NOTES:
1. FOR "SUPERSTRUCTURE NOTES", SEE DWG. ST-16.

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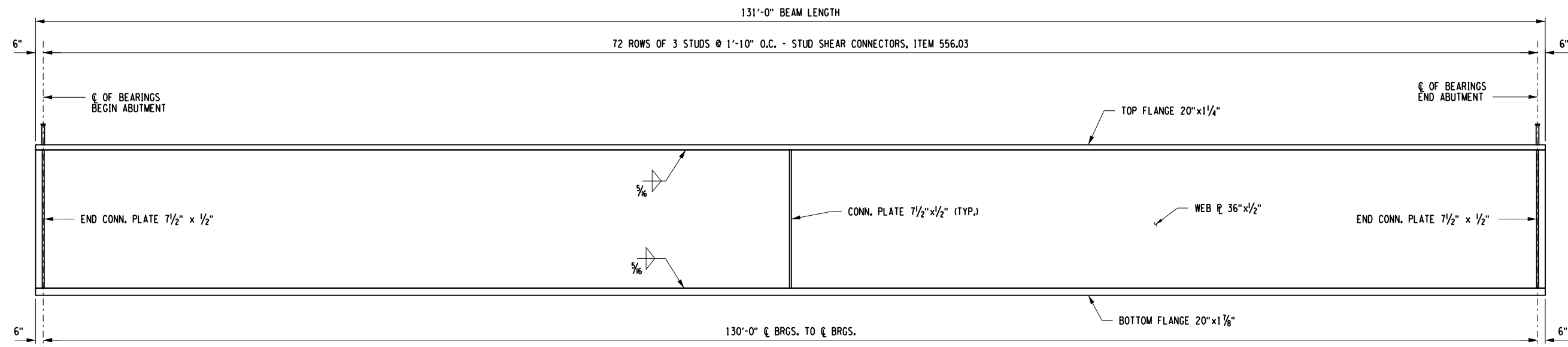


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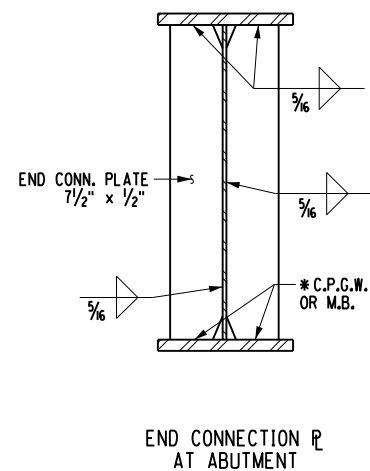
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(GILE HOLLOW ROAD) OVER OLEAN CREEK
B.I.N. 3321770
TOWN OF HINSDALE
CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
FRAMING PLAN

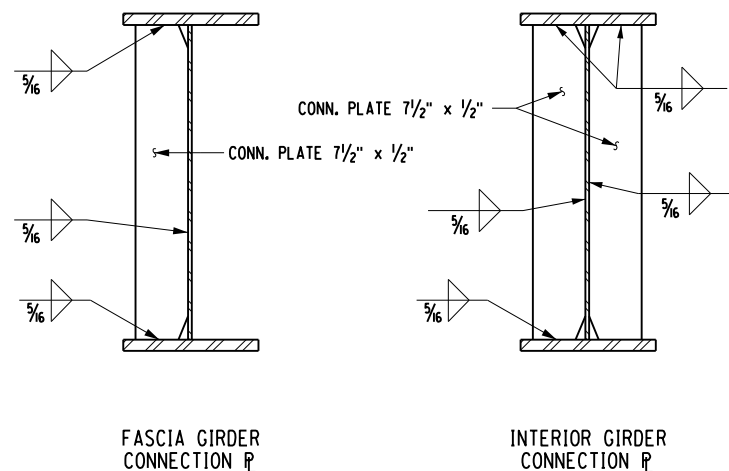
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DATE
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DRAWING NUMBER
ST-14



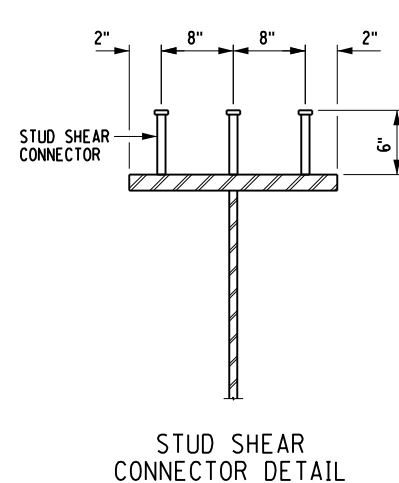
GIRDER ELEVATION
NOT TO SCALE



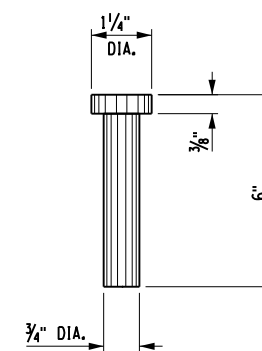
END CONNECTION PLATE
7 1/2" x 1/2"
* C.P.G.W.
OR M.B.



GIRDER SECTIONS
NOT TO SCALE



STUD SHEAR
CONNECTOR DETAIL



STUD DETAIL

NOTES:

1. THE ENDS OF ALL GIRDERS AND THE END CONNECTION PLATES SHALL BE VERTICAL. ALL CONNECTION PLATES MAY BE PERPENDICULAR TO THE TOP FLANGES.
2. * C.P.G.W. = COMPLETE PENETRATION GROOVE WELD
M.B. = MILL TO BEAR
3. FOR "SUPERSTRUCTURE NOTES", SEE DWG. ST-16.

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VLG
 DESIGNER:
 TUH
 ENGINEER:
 BRM



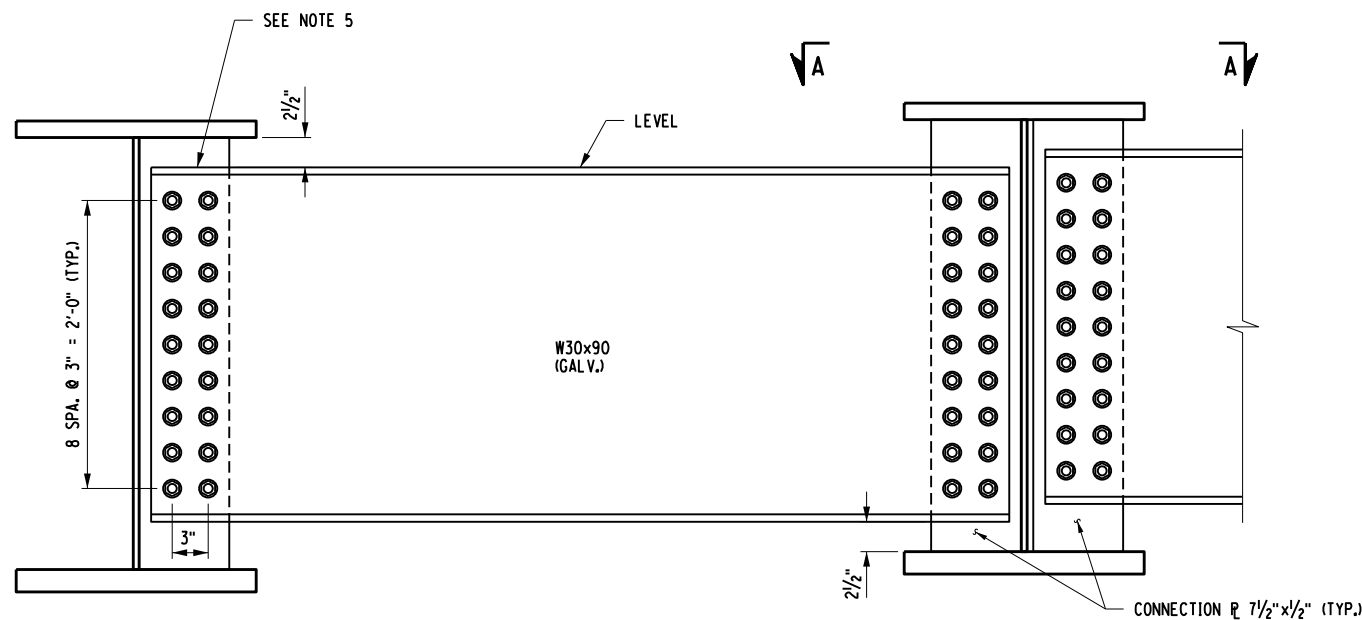
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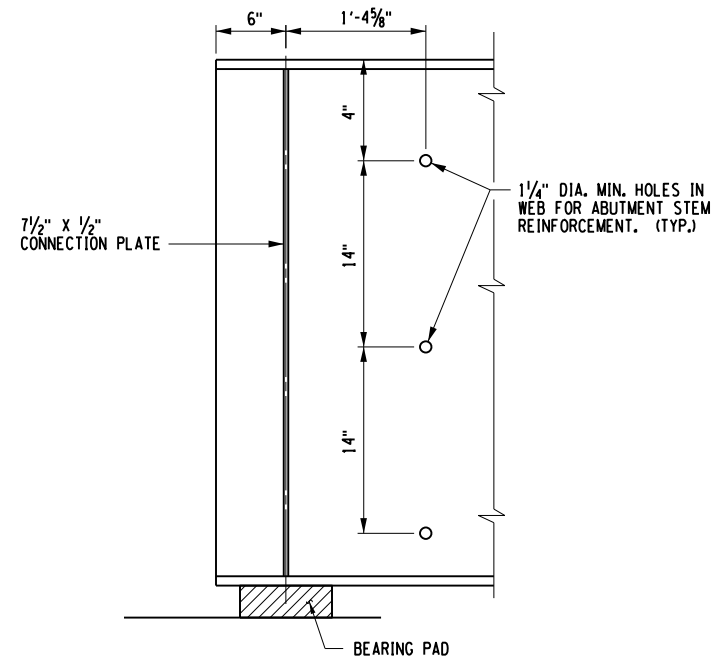
PROJECT/CLIENT
**HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS**

DRAWING TITLE
GIRDER ELEVATION AND DETAILS

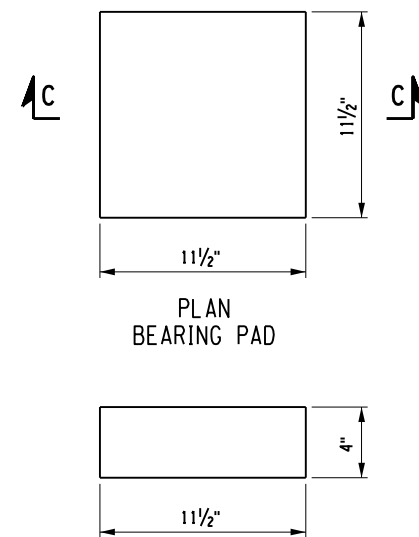
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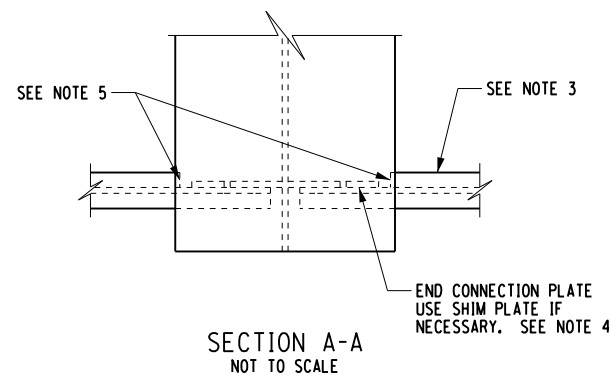
DIAPHRAGM D1
SCALE: 3/4\"/>



TYPICAL GIRDER ELEVATION
NOT TO SCALE



SECTION C-C



SECTION A-A
NOT TO SCALE

SUPERSTRUCTURE NOTES:

1. CONNECTION SHALL BE MADE ACCORDING TO THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
2. UNLESS OTHERWISE INDICATED, BOLTED CONNECTIONS SHALL BE MADE WITH 7/8" DIA. ASTM F3125, GRADE A325 (TYPE 1, HOT DIPPED GALVANIZED).
3. THE CONTRACTOR MAY PLACE DIAPHRAGMS ON EITHER SIDE OF THE CONNECTION PLACES AS NECESSARY FOR CORRECT ALIGNMENT, PROVIDED THERE WILL BE NO INTERFERENCE WITH OTHER STRUCTURAL DETAILS.
4. TAPERED OR FLAT SHIM PLATES MAYBE USED IN THE CONNECTION BETWEEN SKEWED DIAPHRAGMS AND THE BEARING STIFFENERS, STIFFENER CONNECTION PLATE OR GUSSET PLATES. VARIABLE THICKNESSES OF SHIM PLATES MAY BE USED. THE MINIMUM THICKNESS OF SHIM PLATE SHALL BE 1/8" WITH A MAXIMUM NUMBER OF THREE SHIM PLATES PERMITTED AT ANY CONNECTION. THE TOTAL THICKNESS OF ALL SHIM PLATES USED AT ANY CONNECTION SHALL NOT EXCEED 1". SHIM PLATES SHALL HAVE THE DIMENSION OF THE FAYING SURFACE. THE SHIM MATERIAL SHALL CONFORM TO ASTM DESIGNATION A709(W) FOR WEATHERING STEEL APPLICATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR FURNISHING AND PLACING THE SHIM PLATES.
5. DIAPHRAGM MEMBERS SHALL BE BLOCKED AS SHOWN. WITH THEIR FLANGE CUT BACK ON ONE SIDE, AND CHIPPED OR GROUND FLUSH, IN LIEU OF BLOCKING THE DIAPHRAGM MEMBER, THE FABRICATOR SHALL HAVE THE OPTION OF COPING THE FLANGE.
6. PROVIDE 1/4" DIA. HOLES IN THE END DIAPHRAGM WEBS TO ACCOMMODATE ABUTMENT REINFORCING BARS. CONTRACTOR TO VERIFY LOCATIONS. FIELD DRILLED HOLES SHALL BE COATED WITH ZINC PAINT IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATION SUBSECTION 719-01.
7. BEARING PAD TO MEET THE REQUIREMENTS OF NYS MATERIAL SPEC. 728-01, RUBBER-IMPREGNATED WOVEN COTTON-POLYESTER FABRIC BEARING PAD. BEARING PAD TO BE PAID FOR UNDER ITEM 565.30.

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DESIGNER: VLG
 TUH
 ENGINEER: BRM



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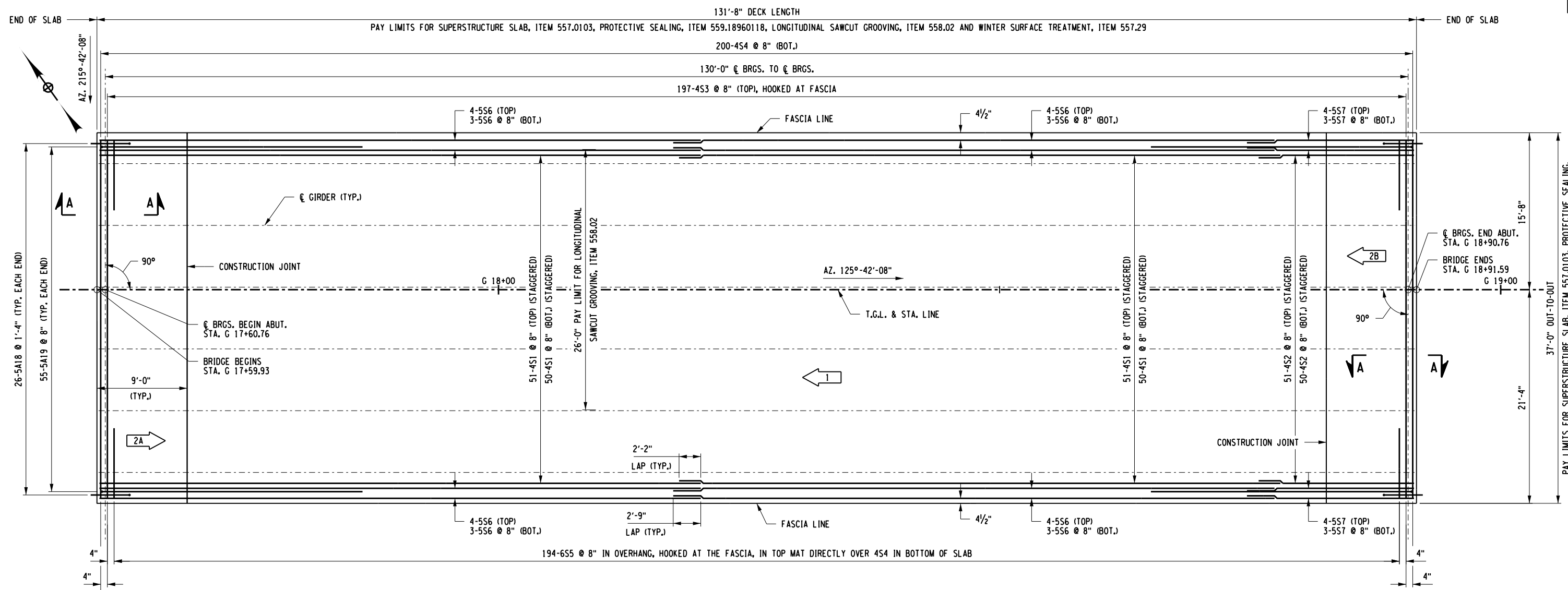


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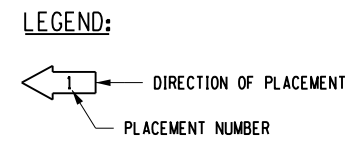
PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
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 DIAPHRAGM DETAILS

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-16



SUPERSTRUCTURE SLAB REINFORCEMENT PLAN
SCALE: 1" = 10'



SUPERSTRUCTURE SLAB TABLE		
ITEM	DESCRIPTION	QUANTITY
557.0103	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM FORMWORK REQ'D - TYPE 3 FRICTION	542 SY
557.29	WINTER SURFACE TREATMENT	542 SY
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	381 SY
559.18960118	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS & BRIDGE DECK OVERLAYS	5339 SF

NOTES:

- FOR THE FOLLOWING SEE:

A. TRANSVERSE SECTION	ST-13	DWG. NO.
B. FASCIA DETAIL	ST-13	
C. APPROACH SLAB PLAN	ST-19	
D. SECTION A-A	ST-12	
- ALL REINFORCEMENT SHALL BE ASTM A1035 GRADE 100 CORROSION RESISTANT REINFORCING STEEL AND PAID FOR UNDER ITEM 556.10013011.

DECK PLACEMENT NOTES:

- CONCRETE PLACEMENT AND FINISHING OPERATIONS SHALL BE PERFORMED AS RAPIDLY AS POSSIBLE. THE ENGINEER MAY DIRECT THE CONTRACTOR TO STOP PLACEMENT OPERATIONS AT ANY TIME IF, IN THE ENGINEER'S OPINION, CONCRETE PLACED DURING THE PLACEMENT HAS STARTED TO SET, OR IS ABOUT TO SET, AND FURTHER PLACEMENT OF CONCRETE WILL CAUSE DEFLECTION CRACKING.
- LONGITUDINAL CONSTRUCTION JOINTS NOT SHOWN IN THE PLANS WILL NOT BE PERMITTED.
- THE CONTRACTOR SHALL OPERATE FINISHING MACHINE(S) AS CLOSE TO THE SKEW ANGLE AS PRACTICABLE FOR SKEW ANGLES BETWEEN 0° AND 35°. WHEN THE SKEW ANGLE IS GREATER THAN 35° THE FINISHING MACHINE(S) SHALL BE OPERATED AT A MAXIMUM SKEW ANGLE OF 35°.
- THE CONTRACTOR SHALL PLACE WET BURLAP CURING BLANKETS ON THE CONCRETE DECK WITHIN 30 MINUTES OF THE CONCRETE BEING DEPOSITED INTO THE FORMS OR 5 MINUTES AFTER FINISHING, WHICHEVER COMES FIRST. THE PLACEMENT OF THE TURF DRAG TEXTURE SHALL NOT INTERFERE WITH THESE REQUIREMENTS.
- IF THE CONTRACTOR'S DECK PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY THE CONTRACTOR'S DECISION OR BY DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL PROVIDE A FINISHED DECK GRADE WHICH MATCHES THE PLANNED PROFILE. ANY SUBSEQUENT REVISIONS TO DECK FORMS MADE NECESSARY BY SUCH ACTION SHALL BE AT NO COST TO THE STATE.
- THERE WILL BE NO EXCEPTIONS MADE TO THE POURING SEQUENCE AS SHOWN ON THE CONTRACT PLANS.

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PROJECT MANAGER: BRM
 ENGINEER: TJH
 DESIGNER: VLG



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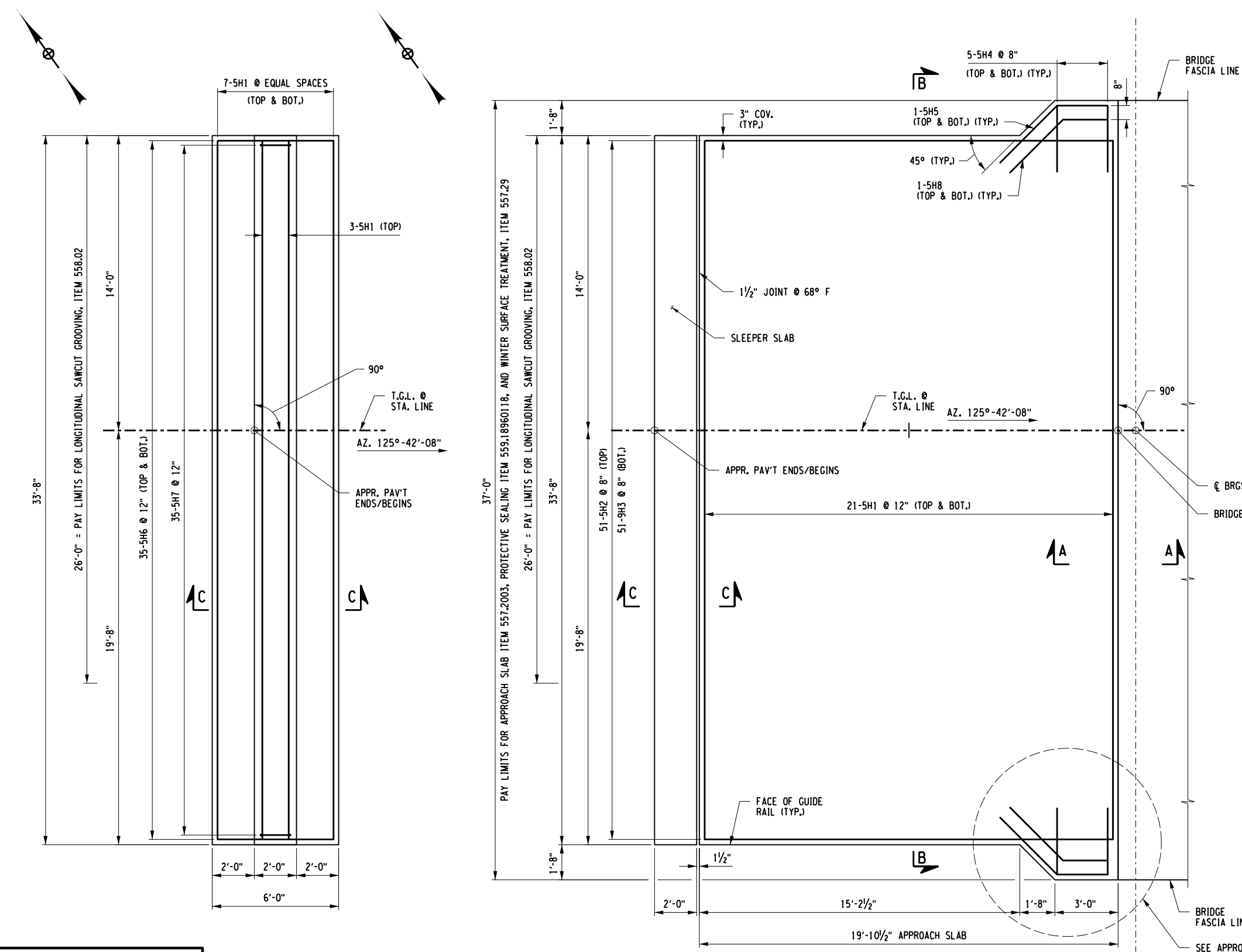


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 HINSDALE BRIDGE 62 COUNTY ROAD 26
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DRAWING TITLE
SUPERSTRUCTURE SLAB REINFORCEMENT PLAN

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-18



APPROACH SLAB TABLE				
LOCATION	CONCRETE ITEM 557.2003	WINTER SURFACE TREATMENT ITEM 557.29	LONGITUDINAL SAWCUT GROOVING ITEM 558.02	PROTECTIVE SEALER ITEM 559.18960118
BEGIN APPROACH SLAB	99 SY	84 SY	63.5 SY	756 SF
END APPROACH SLAB	99 SY	84 SY	63.5 SY	756 SF

SLEEPER SLAB
SCALE: 3/8" = 1'-0"

BEGIN APPROACH SLAB
(END APPROACH SLAB OPP. HAND)
SCALE: 3/8" = 1'-0"

- NOTES:**
- FOR SECTION A-A, SEE DWG. ST-12.
 - FOR SECTIONS B-B AND C-C, SEE DWG. ST-20.
 - ALL REINFORCEMENT SHALL BE ASTM A1035 GRADE 100 CORROSION RESISTANT REINFORCING STEEL AND PAID FOR UNDER ITEM 556.10013011.

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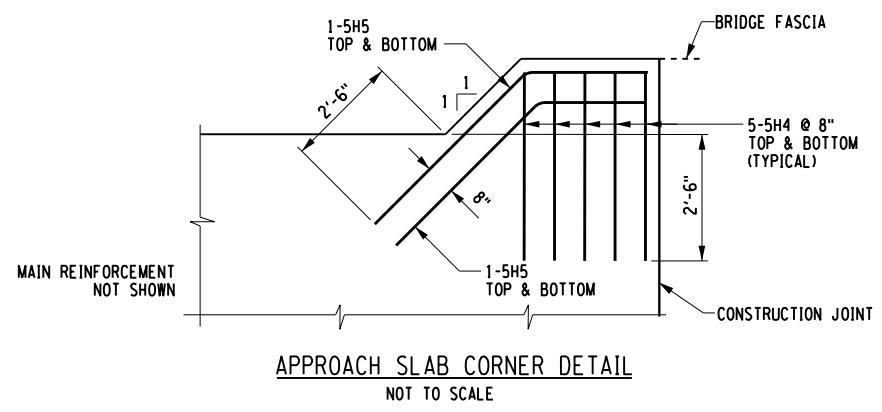
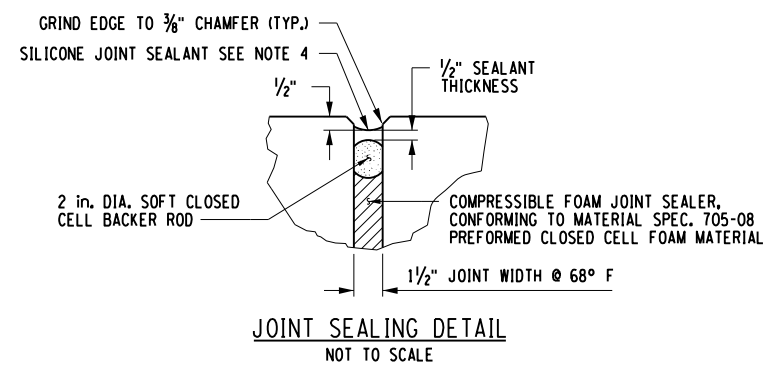
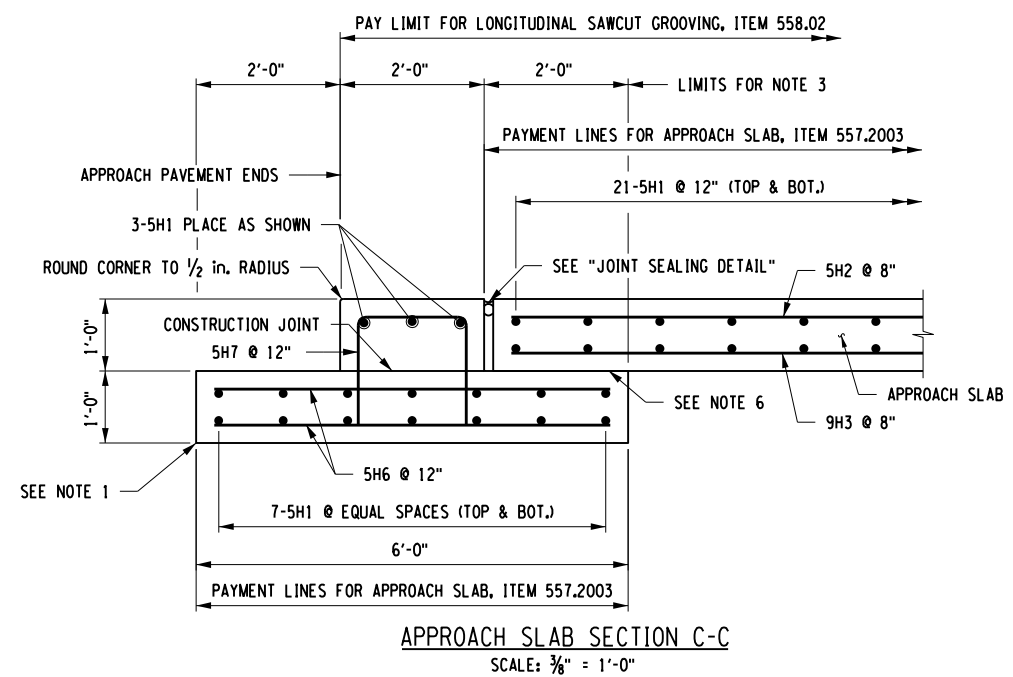
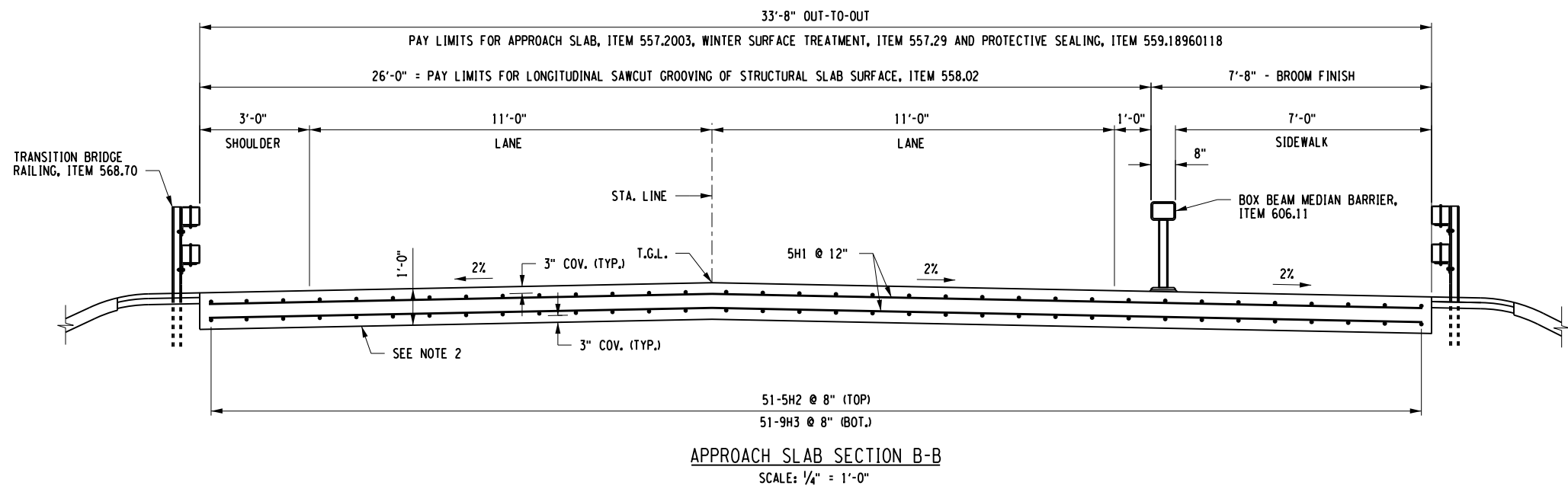


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HINSDALE BRIDGE 62 COUNTY ROAD 26
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DRAWING TITLE
APPROACH AND SLEEPER SLAB
REINFORCEMENT PLAN

PROJECT NUMBER
2181139
 DATE
OCTOBER 2019
 DRAWING NUMBER
ST-19



- NOTES:**
- SLEEPER SLABS SHALL BE BUILT ON COMPACTED SUBBASE, AS DETAILED IN THESE PLANS. SUBBASE SHALL BE PLACED ON CAREFULLY EXCAVATED COMPACTED ABUTMENT EMBANKMENT MATERIAL OR UNDISTURBED SOIL. NO LOOSE BACKFILL SHALL BE ALLOWED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE SLEEPER SLAB FROM TEMPORARY LOADINGS OR ANY CONDITION WHICH COULD CAUSE MOVEMENTS OR UNEVEN SETTLEMENT OF THE SLEEPER SLAB.
 - TO PERMIT UNHINDERED LONGITUDINAL MOVEMENT OF SLAB, THE SURFACE OF THE SUBBASE COURSE MUST BE ACCURATELY CONTROLLED TO FOLLOW AND BE PARALLEL TO THE ROADWAY GRADE AND CROSS SLOPE. POLYETHYLENE CURING COVERS (WHITE OPAQUE) IN ACCORDANCE WITH MATERIAL SPECIFICATION SUBSECTION 711-04 SHALL BE PLACED ON THE FINISHED SUBBASE COURSE THE FULL WIDTH OF THE APPROACH SLAB PRIOR TO PLACEMENT OF THE REINFORCEMENT. THE CURING COVERS SHALL BE .004 in. THICK, AND LAPS SHALL BE 2 ft. MINIMUM.
 - TOP OF SLEEPER SLABS SHALL BE STEEL TROWEL FINISHED AND COATED WITH A 0.04 in. NOMINAL THICKNESS OF PERFORMANCE GRADE ASPHALT AS INDICATED IN THE PROPOSAL, OR MATERIAL SPECIFICATION 702-3101. THE TOP OF SLEEPER SLABS SHALL FOLLOW THE CROSS SLOPE AND GRADE OF ROADWAY. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.
 - FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, LIQUID SEALANT, FROM THE DEPARTMENT'S APPROVED LIST. THE MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED FOR THOSE SEALANTS THAT REQUIRES A PRIMER. THE CONCRETE SHALL CURE FOR MINIMUM OF 7 DAYS BEFORE JOINT IS SEALED. SEALING SHALL ONLY BE PERFORMED WHEN THE CONCRETE TEMPERATURE IS 40°F OR ABOVE. BOTH JOINT FACES SHALL BE SAND BLASTED TO ROUGHEN THE SURFACE AND TO REMOVE ALL SURFACE MOISTURE AND ANY OTHER MATERIAL THAT MAY INTERFERE WITH BOND.
 - TOP SURFACES OF STRUCTURAL SLABS, APPROACH SLABS AND EXPOSED TOP SURFACES OF SLEEPER SLABS SHALL BE GROOVED UNDER THE SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE ITEM.
 - COMPRESSED SYNTHETIC SHEET GASKET (TREATED BOTH SIDES), MATERIAL SPECIFICATION 728-06, TWO 0.06 in. THICK SHEETS. PRICE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.
 - ALL REINFORCEMENT SHALL HAVE 3 in. COVER UNLESS OTHERWISE NOTED.
 - ALL REINFORCEMENT SHALL BE ASTM A1035 GRADE 100 CORROSION RESISTANT REINFORCING STEEL AND PAID FOR UNDER ITEM 556.10013011.
 - FOR LOCATION OF SECTIONS B-B & C-C, SEE DWG. ST-19.

PROJECT MANAGER: VLG
 DESIGNER: TJH
 ENGINEER: BRM
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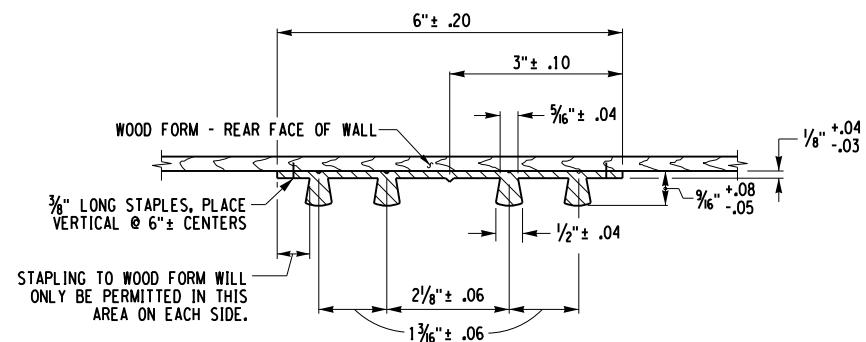
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PROJECT/CLIENT
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DRAWING TITLE
**APPROACH AND SLEEPER SLAB
 DETAILS**

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
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TYPE D WATERSTOP
NOT TO SCALE

NOTES:

HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.

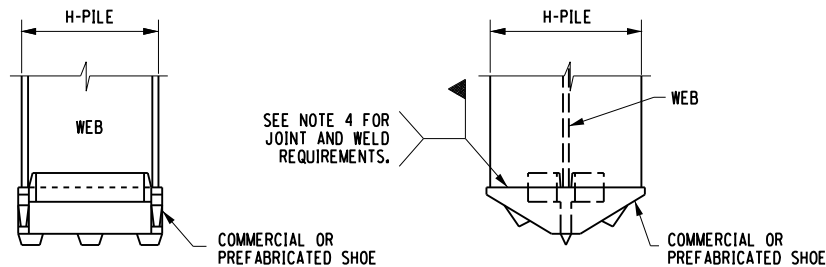
TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.

PVC USED IN WATERSTOPS SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-11.

THE COST OF FURNISHING AND PLACING WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE CONCRETE ITEMS.

FIELD SPLICES SHOULD BE AVOIDED IF POSSIBLE, HOWEVER, HEAT WELDED BUTT SPLICES WILL BE PERMITTED ON LONG STRAIGHT RUNS (GENERALLY IN EXCESS OF 50 FEET) AT POINTS APPROVED BY THE ENGINEER.

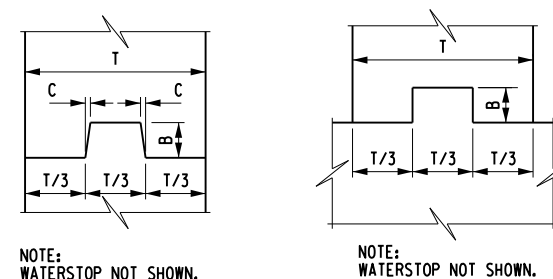
WATERSTOPS SHALL BE SHIPPED IN STRAIGHT SECTIONS HAVING A MINIMUM LENGTH OF 10 FEET UNLESS SHORTER LENGTHS ARE REQUIRED.



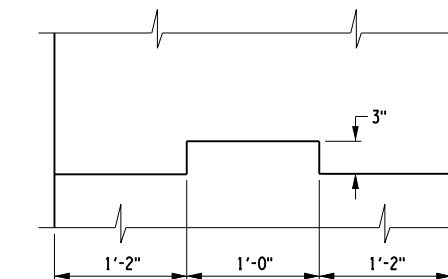
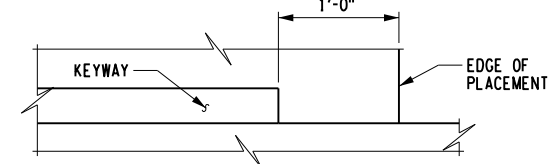
NOTES:

1. COMMERCIAL OR PREFABRICATED SHOES ARE SUBJECT TO THE APPROVAL OF THE DCES.
2. THE SHOE SHALL BE ATTACHED BY A NYS DOT CERTIFIED WELDER.
3. A "WELDING PROCEDURE SPECIFICATION" (WPS) APPROVED BY THE DCES IS REQUIRED.
4. THE SHOE WELD JOINT DESIGN SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION, AND AS SHOWN ON THE APPROVED WPS.
5. IF SHOES ARE WELDED AT A LOCATION OTHER THAN THE PROJECT SITE, ALL OF THE ABOVE PROVISIONS SHALL APPLY TO THE OFFSITE FABRICATOR. THE DCES SHALL BE NOTIFIED BY THE CONTRACTOR OF THE ACTUAL LOCATION WHERE THE WELDING WILL BE PERFORMED A MINIMUM OF 5 WORKING DAYS BEFORE WORK COMMENCES.
6. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN CONFORMANCE WITH REQUIREMENTS FOR WELDING SPECIFIED IN THE N.Y.S. STEEL CONSTRUCTION MANUAL.

STEEL BEARING PILE SHOES
NOT TO SCALE



VERTICAL HORIZONTAL

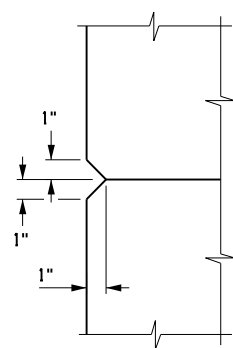


NOTE: REINFORCEMENT NOT SHOWN FOR CLARITY. KEYWAY TO STOP 1'-0" FROM SUPPORT BEARING PAD OR CONSTRUCTION JOINT.

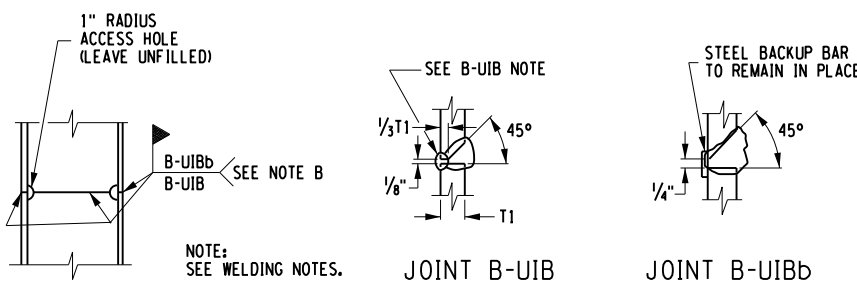
KEYWAY DETAIL AT ABUTMENTS
NOT TO SCALE

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

KEYWAY DETAILS
NOT TO SCALE



CHAMFER DETAIL
NOT TO SCALE



SPLICE FOR STEEL BEARING PILE
NOT TO SCALE

NOTES:

A "WELDING PROCEDURE SPECIFICATION" (WPS) APPROVED BY THE D.C.E.S. IS REQUIRED.

ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN CONFORMANCE WITH REQUIREMENTS FOR WELDING SPECIFIED IN THE N.Y.S. STEEL CONSTRUCTION MANUAL.

A: SIZE TO BE INDICATED IN THE F.D.R.

B: EITHER JOINT MAY BE USED AT CONTRACTOR'S OPTION.

B-UIB: AIR CARBON ARC GOUGE TO SOUND WELD METAL PRIOR TO WELDING THE SECOND SIDE. THE GOUGE SHALL HAVE A 1/4" MINIMUM RADIUS AT THE ROOT WITH THE TOP SLOPED BACK AT 45° MINIMUM.

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 PROJECT MANAGER:

DESIGNER: VLG
 TUH
 ENGINEER: BRM



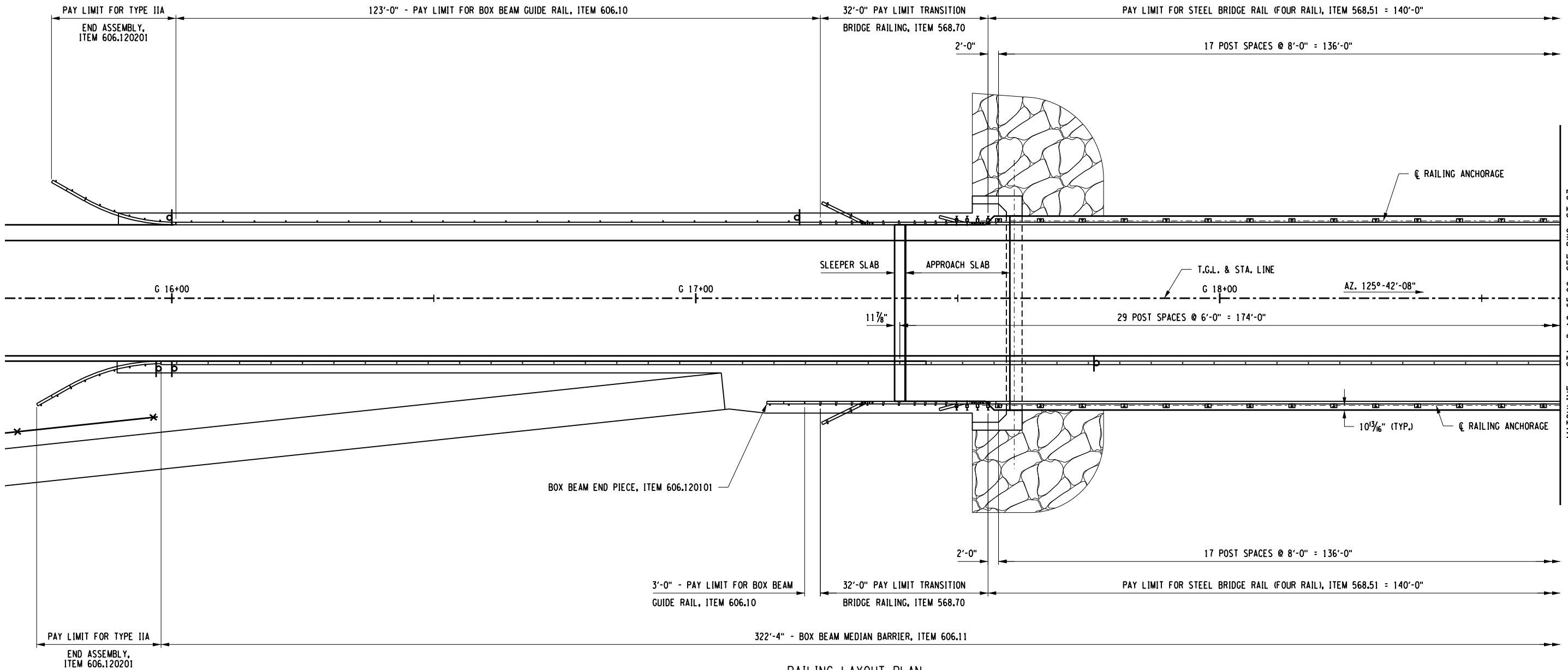
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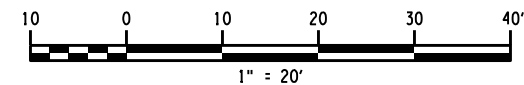
PROJECT CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
MISCELLANEOUS DETAILS

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-21



RAILING LAYOUT PLAN



PLOTDRVR: pdf_color_half.ctb
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 PROJECT MANAGER:

BRM ENGINEER: TUH DESIGNER: VLG



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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

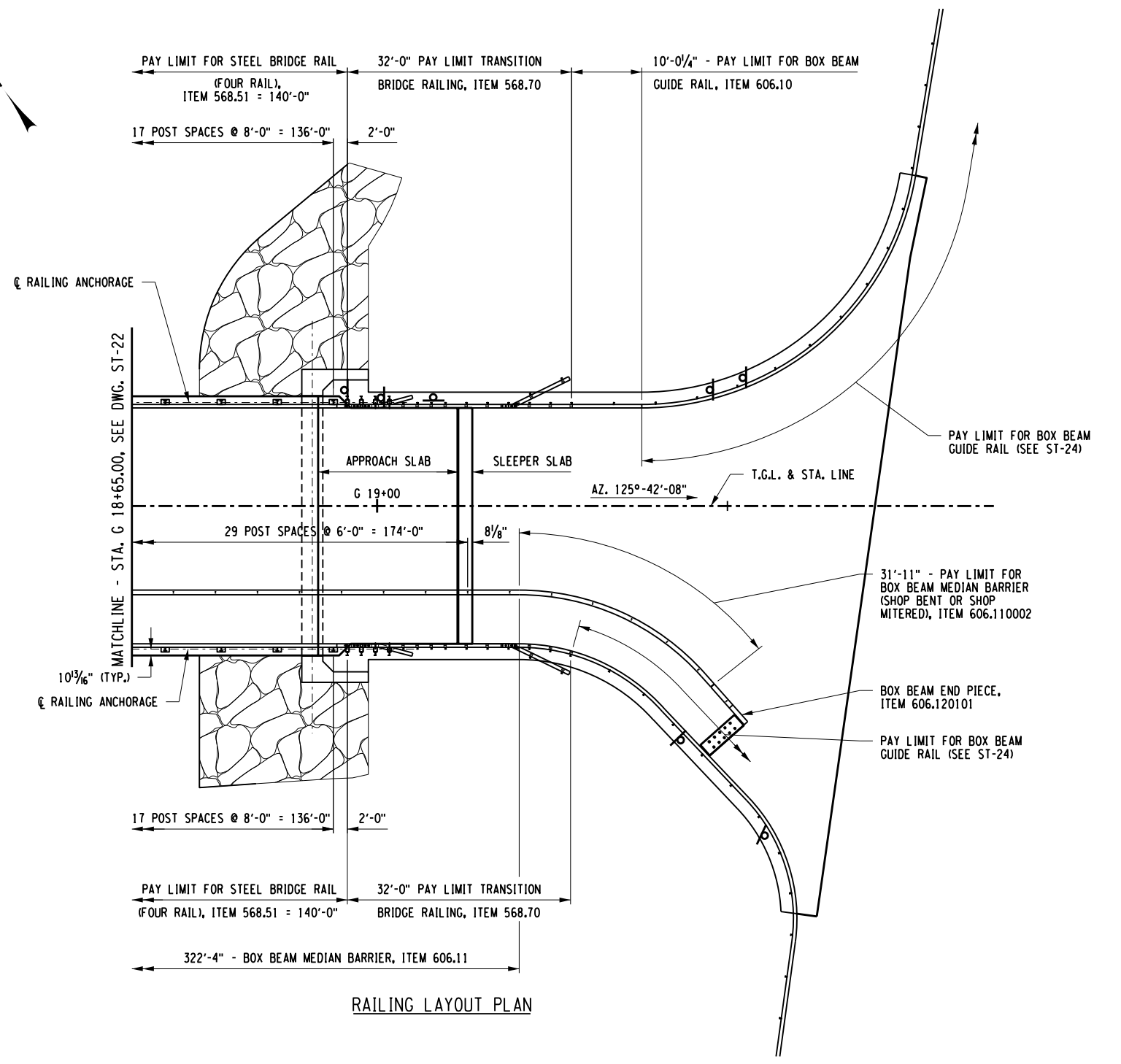
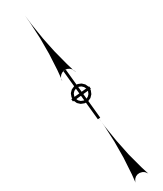


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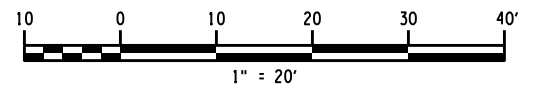
PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
 RAILING PLAN (1 OF 3)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-22



RAILING LAYOUT PLAN



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BRM ENGINEER: TUH DESIGNER: VLG



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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

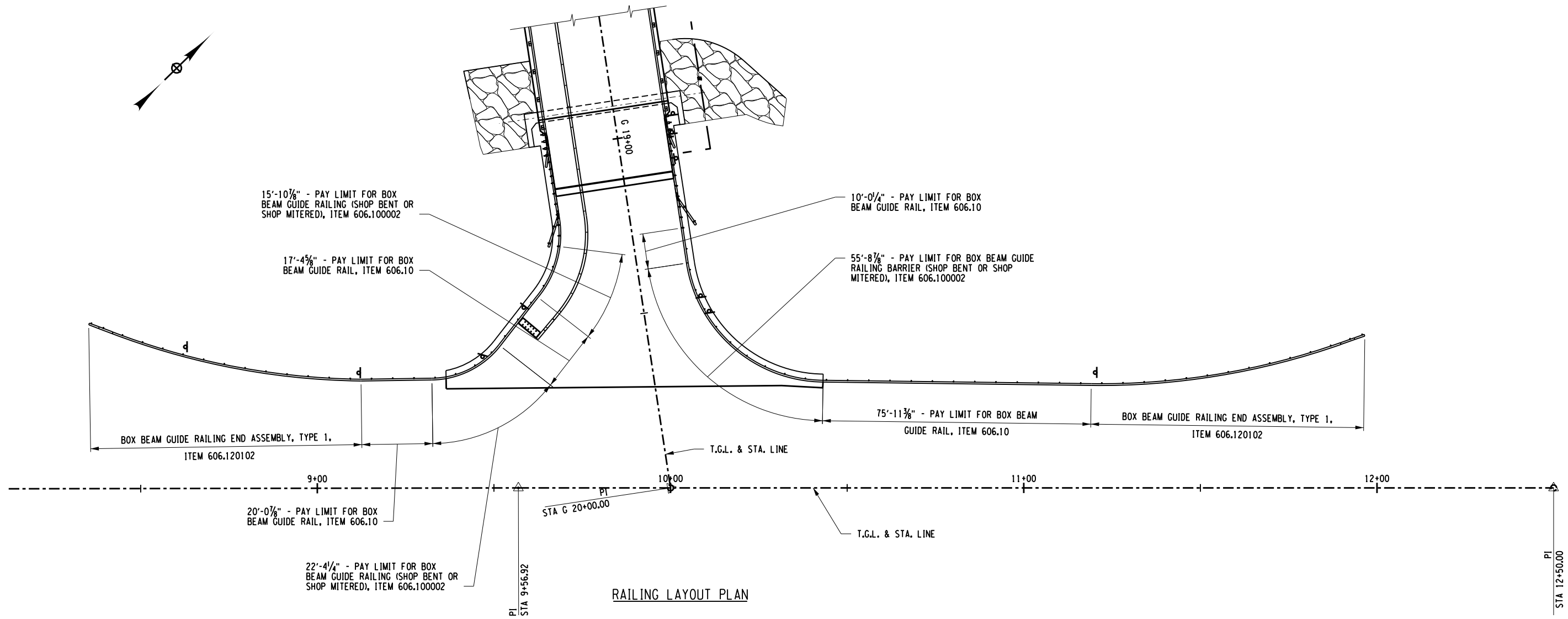
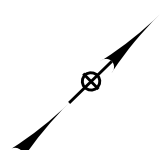


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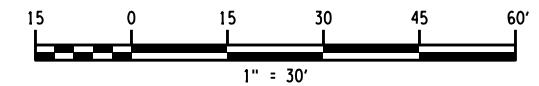
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 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
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DRAWING TITLE
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PROJECT NUMBER
 2181139
 DATE
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 DRAWING NUMBER
 ST-23



RAILING LAYOUT PLAN



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BRM ENGINEER: TUH DESIGNER: VLG



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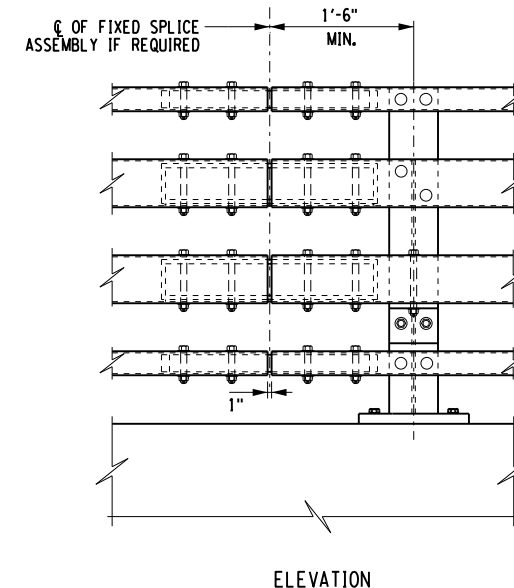
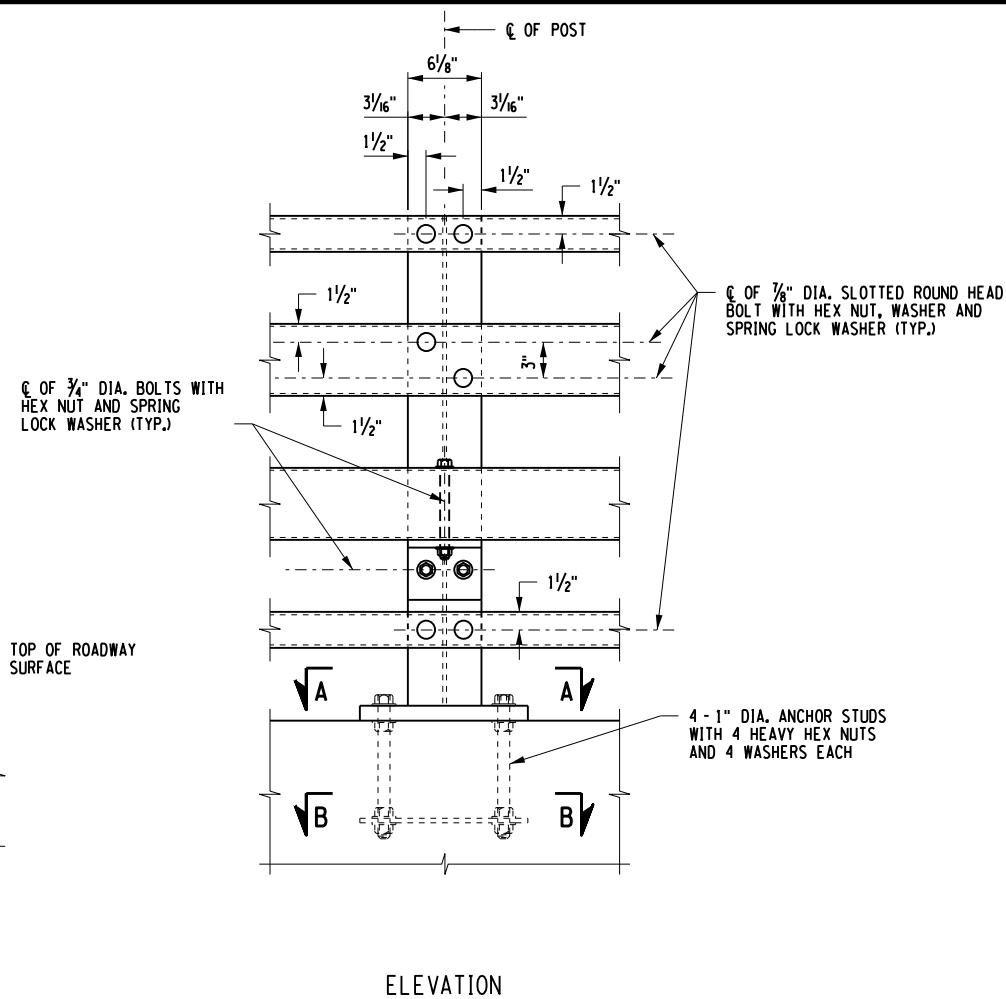
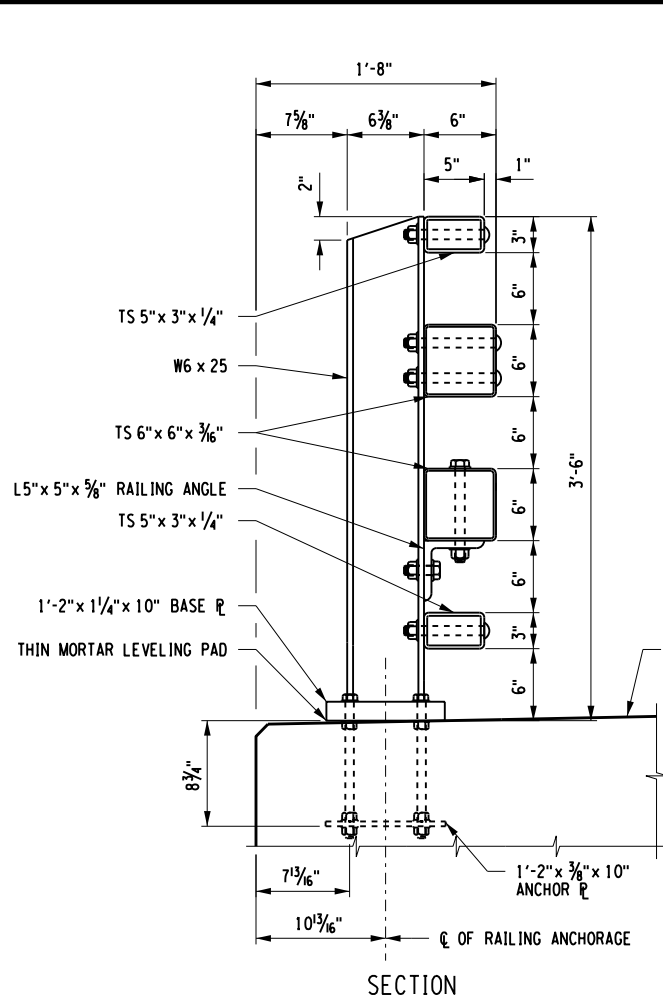


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 HINSDALE BRIDGE 62 COUNTY ROAD 26
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 B.I.N. 3321770
 TOWN OF HINSDALE
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 DEPARTMENT OF PUBLIC WORKS

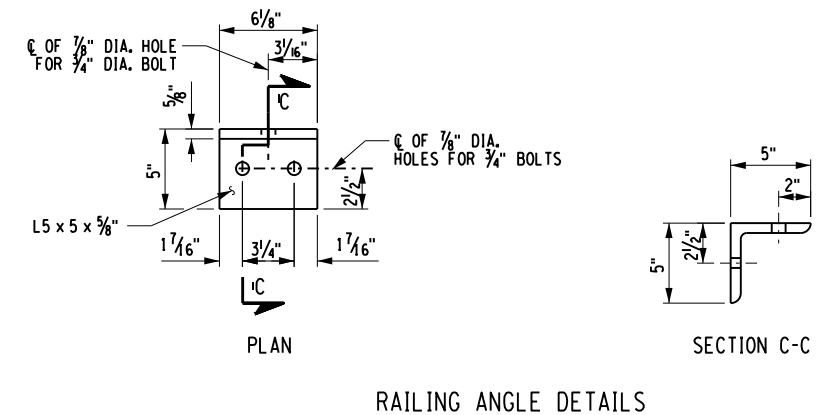
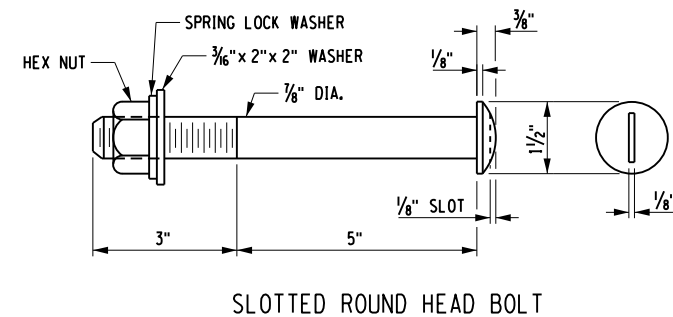
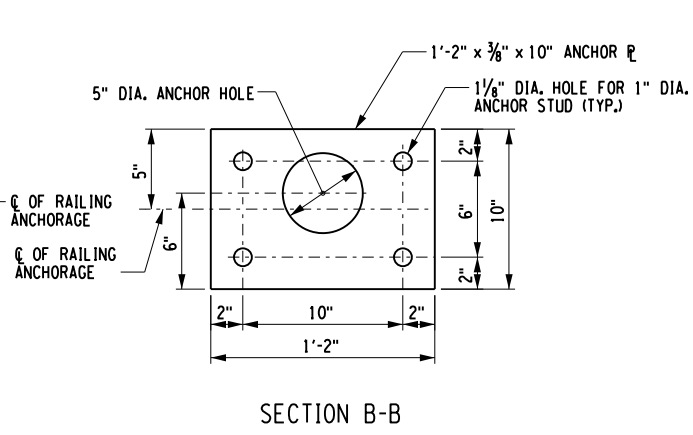
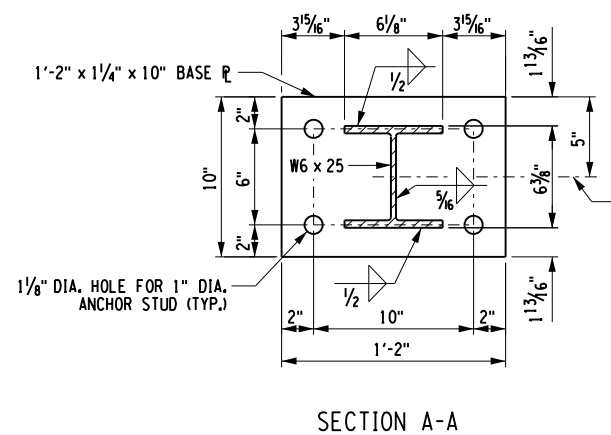
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PROJECT NUMBER
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 DATE
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 DRAWING NUMBER
 ST-24



**STEEL BRIDGE RAILING
(FOUR-RAIL) - CURBLESS**

**STEEL BRIDGE RAILING SPLICE DETAIL
(FOUR-RAIL) - CURBLESS**



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

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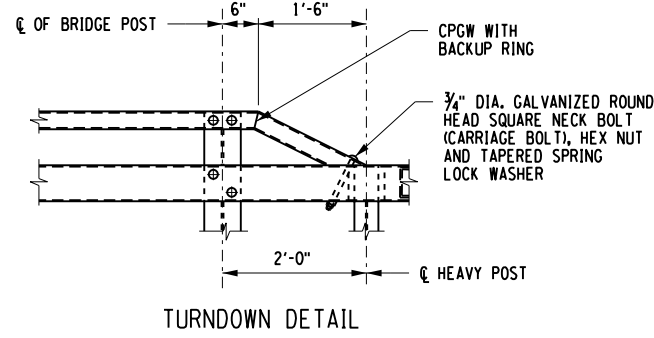
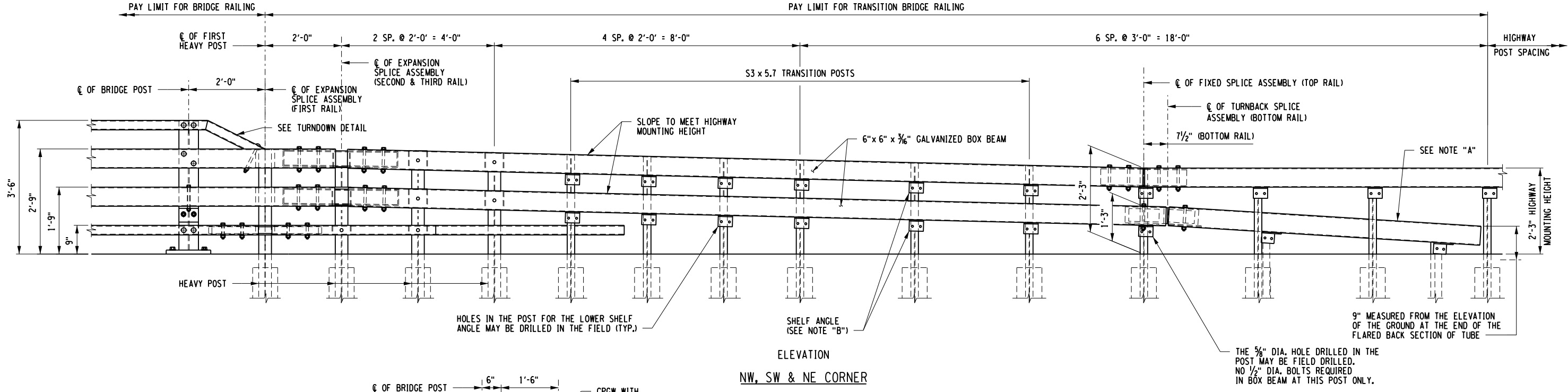
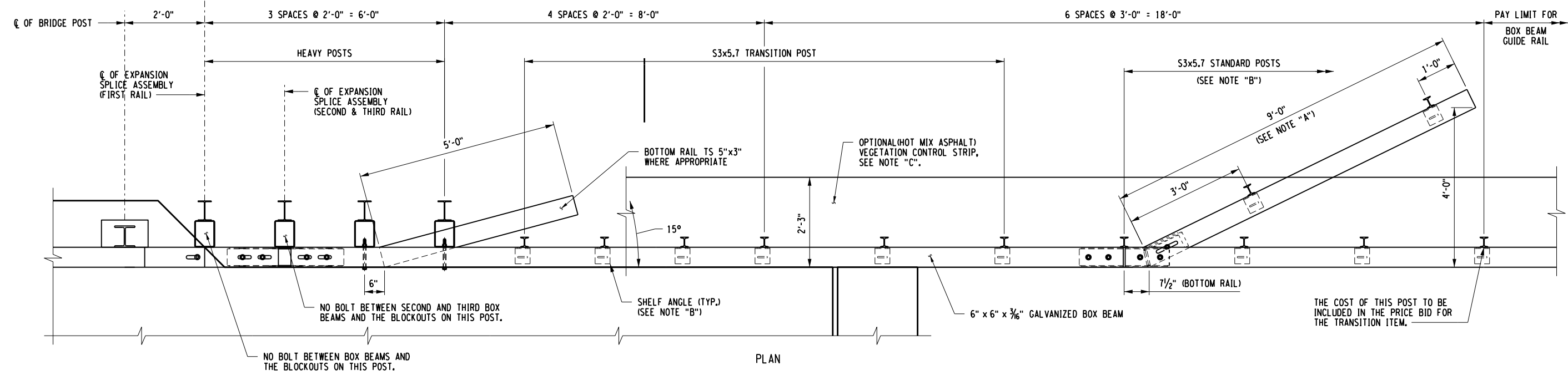
PROJECT/CLIENT
**HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS**

DRAWING TITLE
**RAILING DETAILS
 (1 OF 6)**

PROJECT NUMBER
2181139
 DATE
OCTOBER 2019
 DRAWING NUMBER
ST-25



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 PROJECT MANAGER: VLG
 DESIGNER: VLG
 T.J.H.
 ENGINEER: BRM



NOTES:

NOTE "A": THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE LOWER TUBE FLARE SECTION IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.

NOTE "B": SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".

NOTE "C": PAVE THIS AREA WITH THE SAME MATERIAL USED IN THE STABILIZED SHOULDER. PAYMENT WILL BE MADE UNDER THE SHOULDER MATERIAL ITEM.

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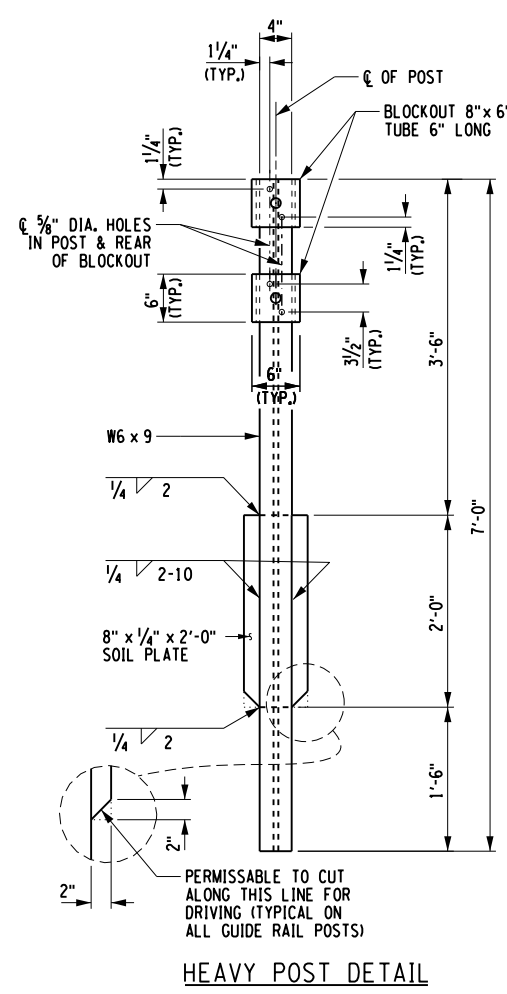


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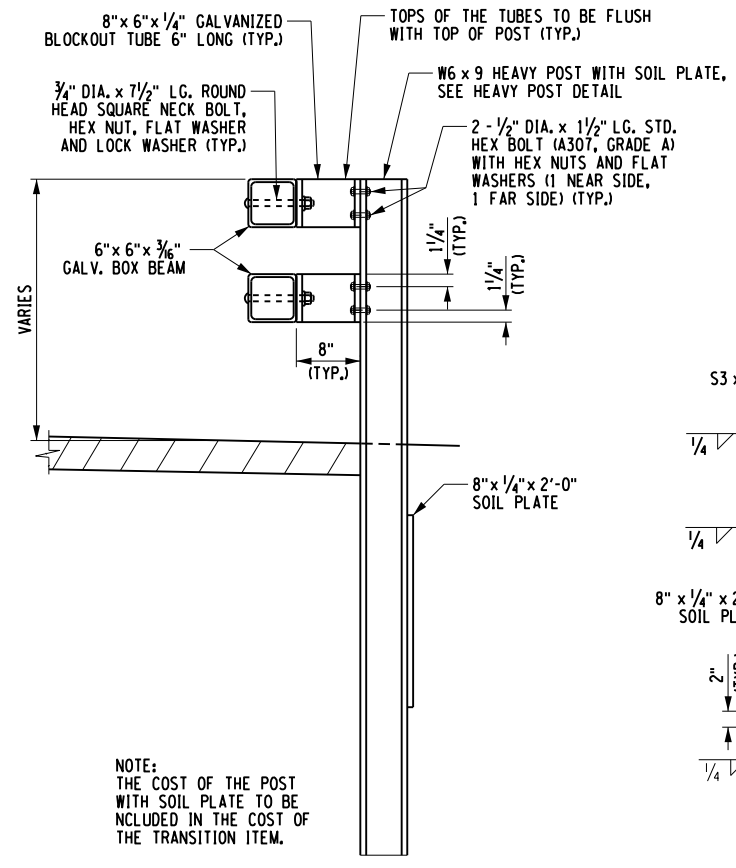
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 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
RAILING DETAILS
 (2 OF 6)

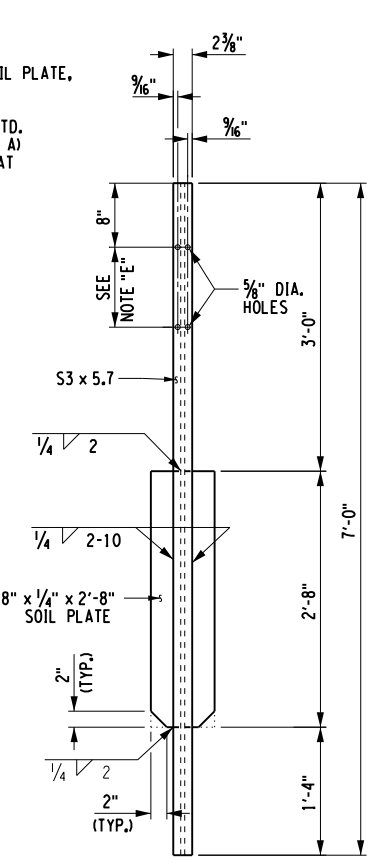
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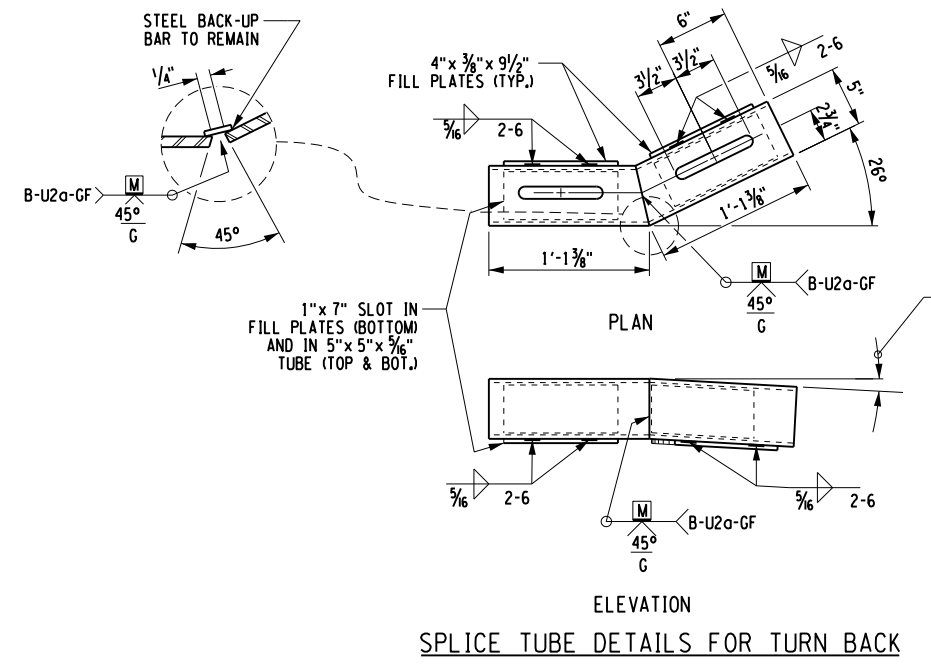
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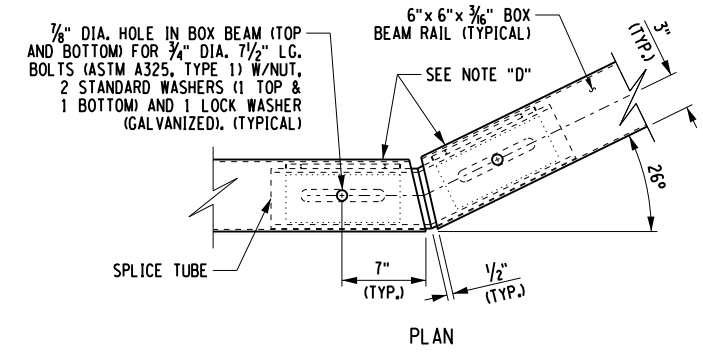
HEAVY POST ELEVATION



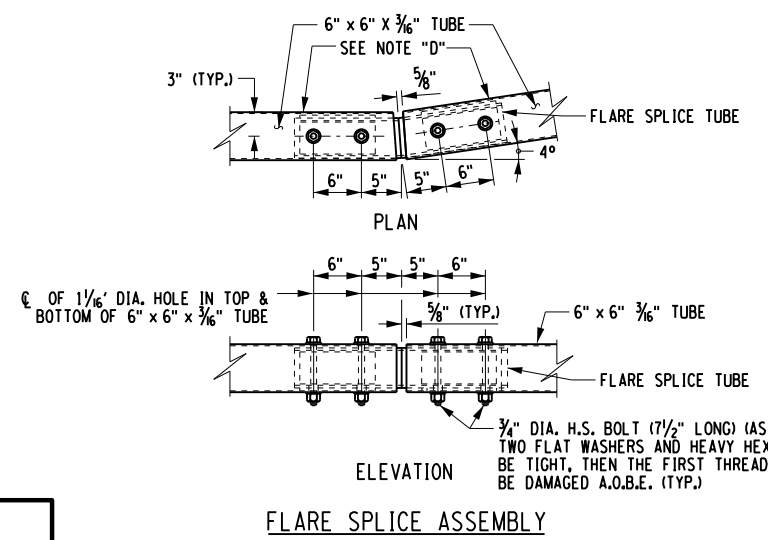
TRANSITION POST DETAIL



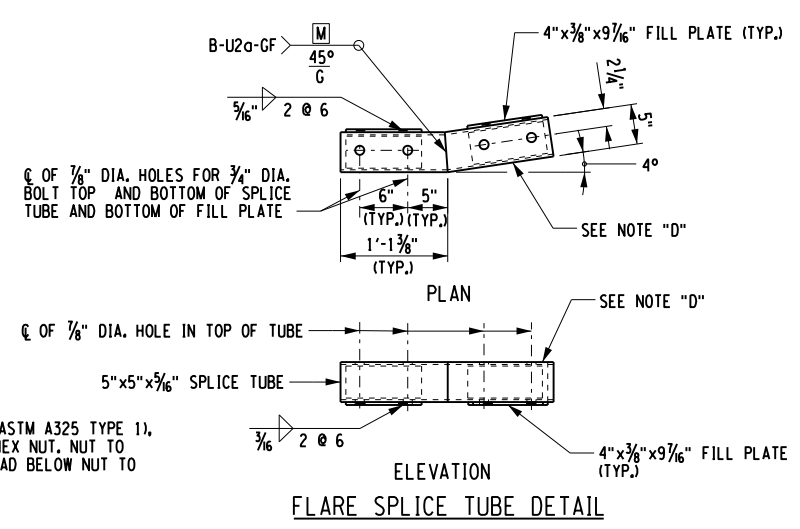
SPLICE TUBE DETAILS FOR TURN BACK



SPLICE DETAIL AT TURN BACK IN LOWER TRANSITION GUIDE RAIL



FLARE SPLICE ASSEMBLY



FLARE SPLICE TUBE DETAIL

NOTES:
NOTE "D": PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
NOTE "E": HOLES IN THE POST FOR THE LOWER RAIL MAY BE LOCATED AND DRILLED IN THE FIELD. IF SO, THE GALVANIZING SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01.

PROJECT MANAGER: VLJ
DESIGNER: TUH
ENGINEER: BRM
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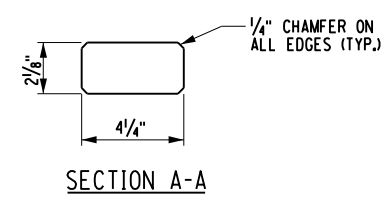
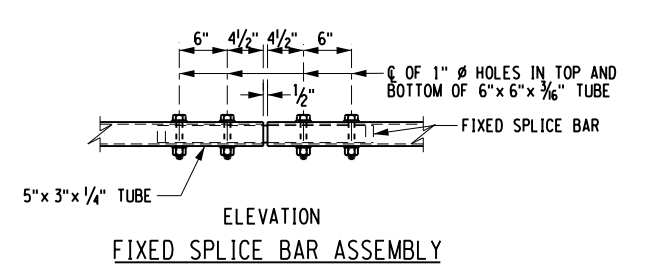
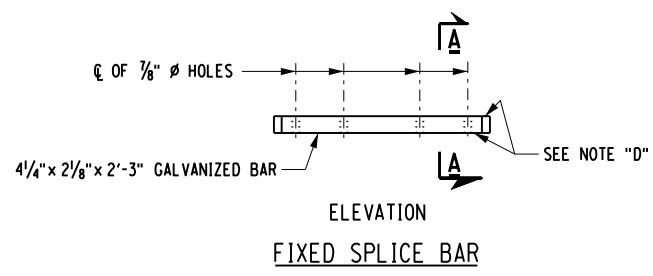
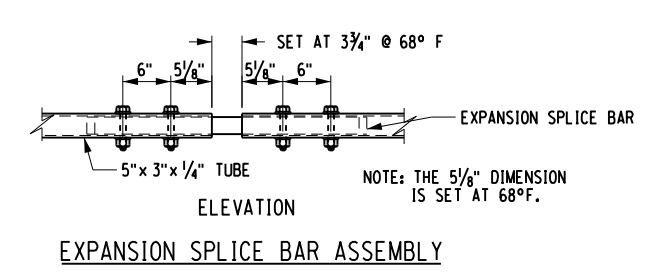
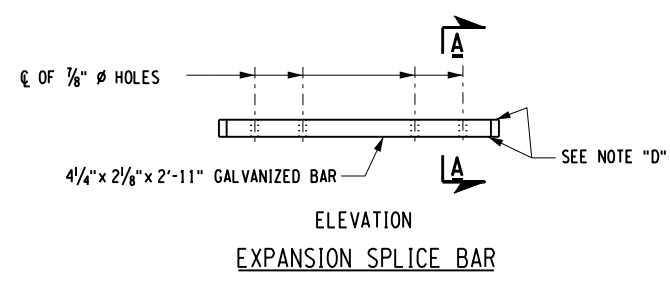
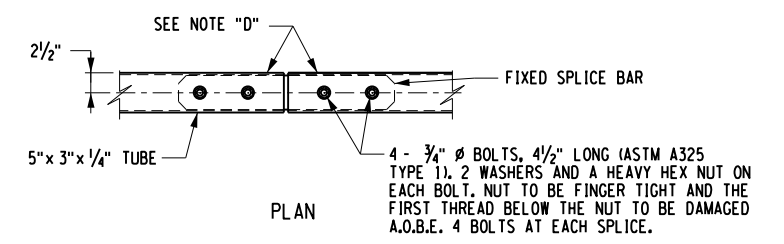
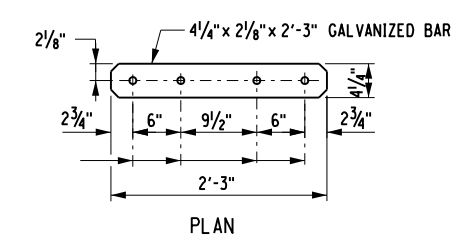
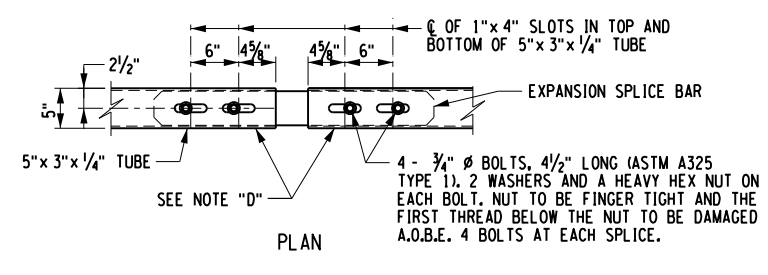
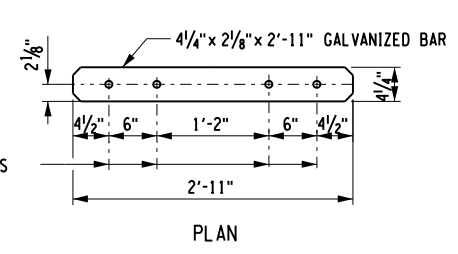
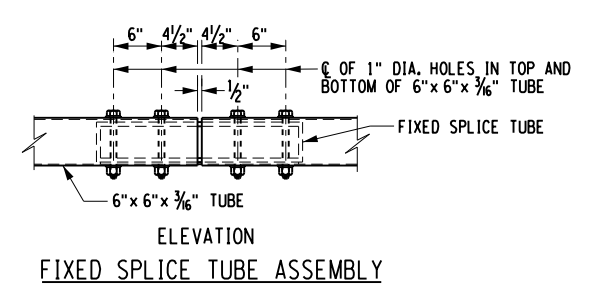
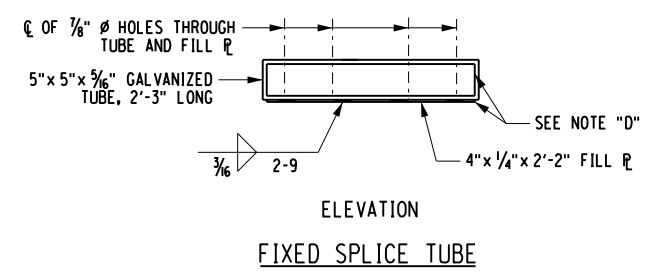
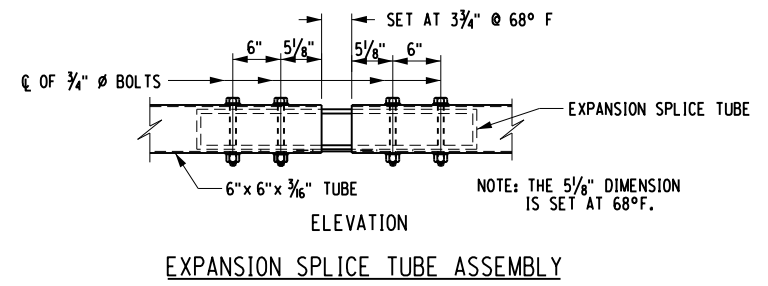
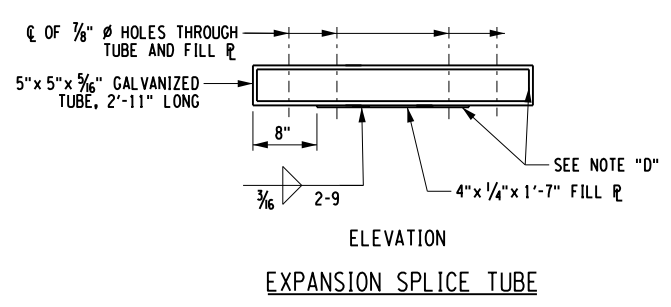
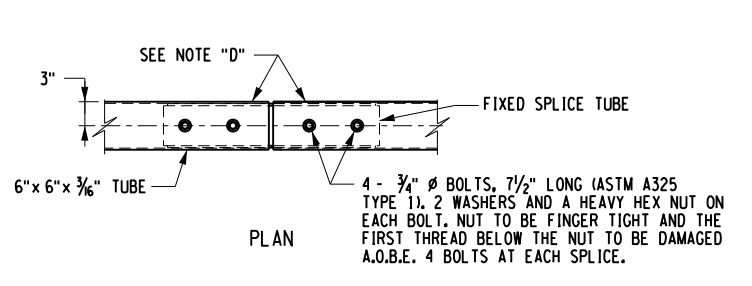
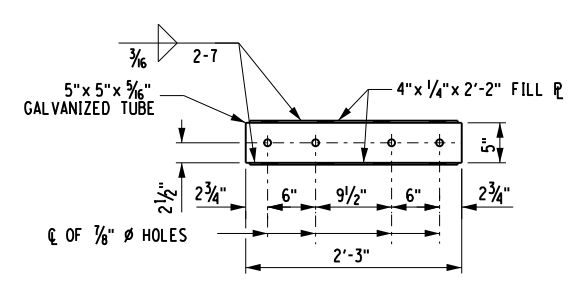
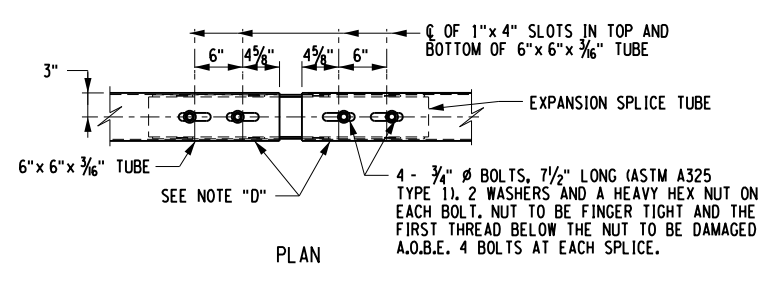
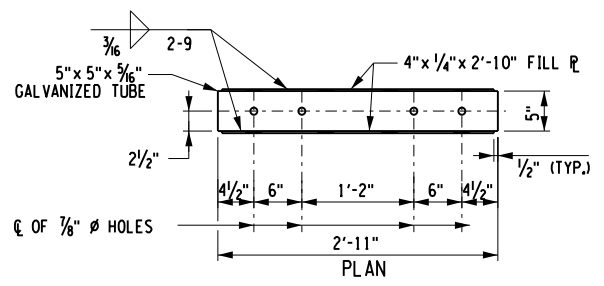


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B.I.N. 3321770
TOWN OF HINSDALE
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DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
RAILING DETAILS
(4 OF 6)

PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
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NOTES:
NOTE "D"
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

PROJECT MANAGER: TUH
DESIGNER: VLG
ENGINEER: BRM



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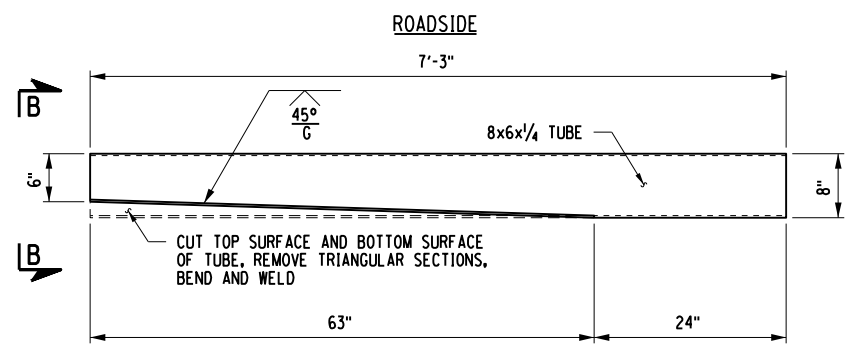
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HINSDALE BRIDGE 62 COUNTY ROAD 26
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RAILING DETAILS
(5 OF 6)

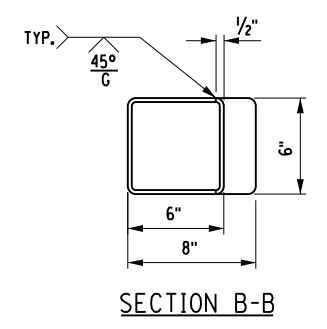
PROJECT NUMBER
2181139
DATE
OCTOBER 2019
DRAWING NUMBER
ST-29

It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

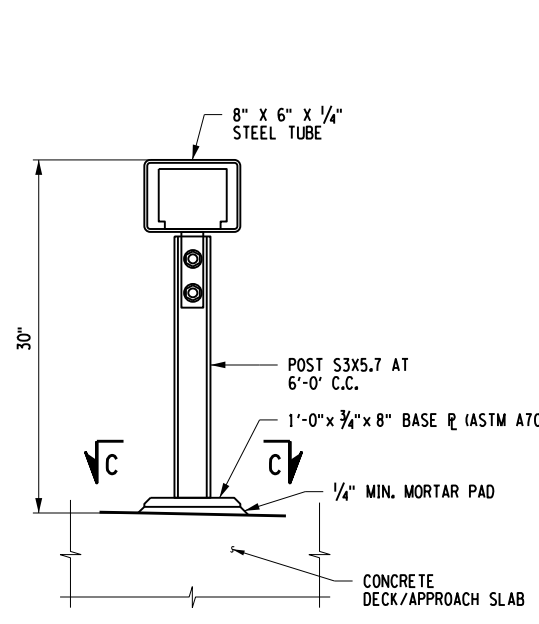
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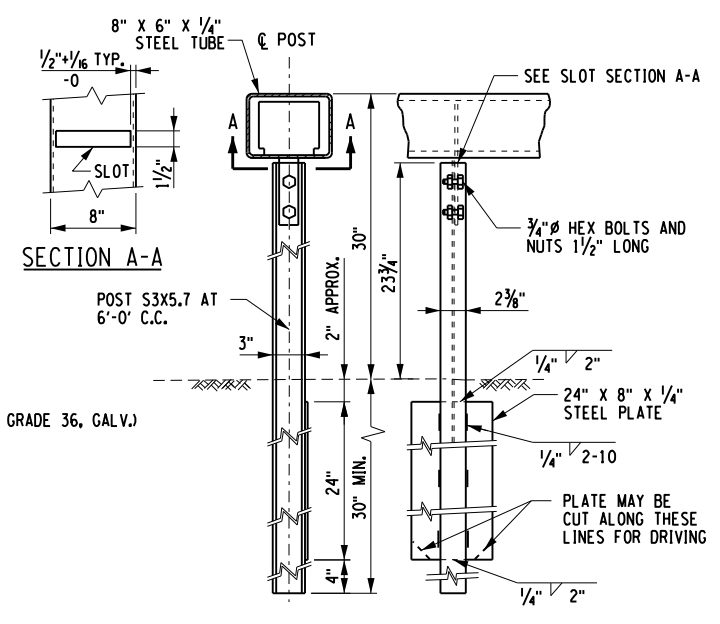
MEDIAN BARRIER TRANSITION RAIL PLAN



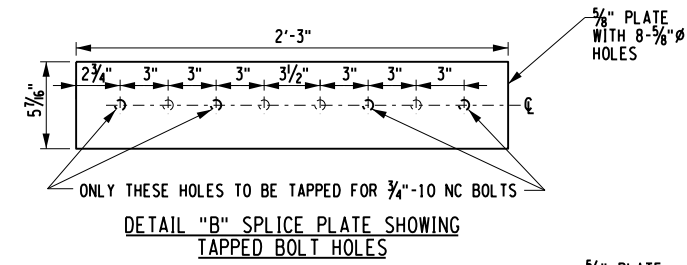
SECTION B-B



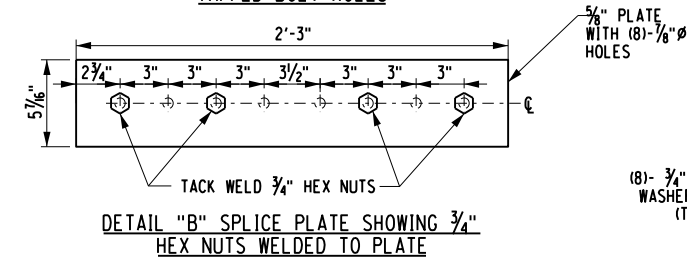
BOX BEAM MEDIAN BARRIER



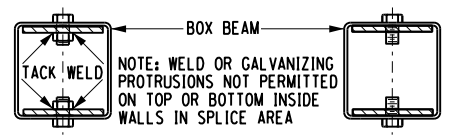
TYPICAL SECTION FOR FLUSH MEDIAN



DETAIL "B" SPLICE PLATE SHOWING TAPPED BOLT HOLES



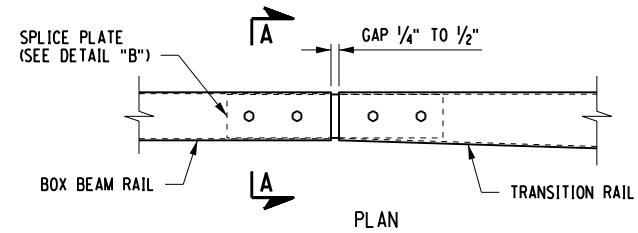
DETAIL "B" SPLICE PLATE SHOWING 3/4" HEX NUTS WELDED TO PLATE



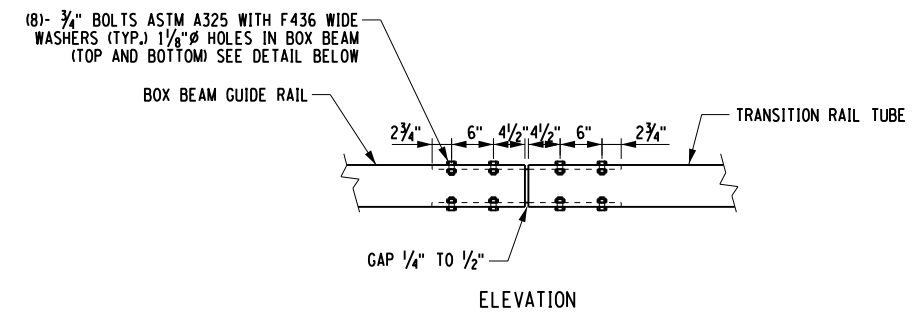
SECTION A-A SPLICE PLATE SHOWING 3/4" HEX NUTS WELDED TO PLATE



SECTION A-A SPLICE PLATE SHOWING TAPPED BOLT HOLES

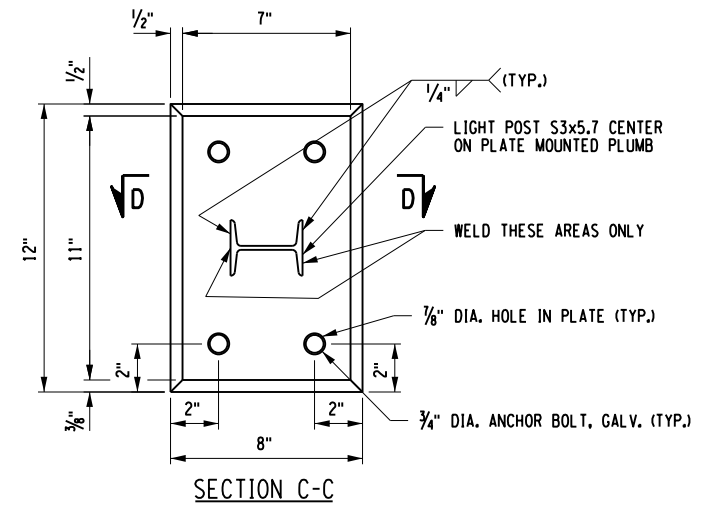


PLAN

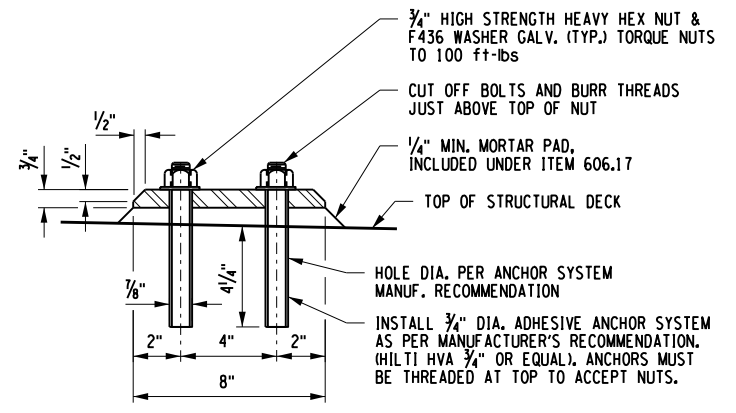


ELEVATION

BOX BEAM TO TRANSITION RAIL CONNECTION



SECTION C-C



SECTION D-D

NOTES:
1. FOR ADDITIONAL BOX BEAM MEDIAN BARRIER DETAILS, SEE NYS DOT STANDARD SHEET 606-05.

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 ENGINEER: TUH
 DESIGNER: VLG



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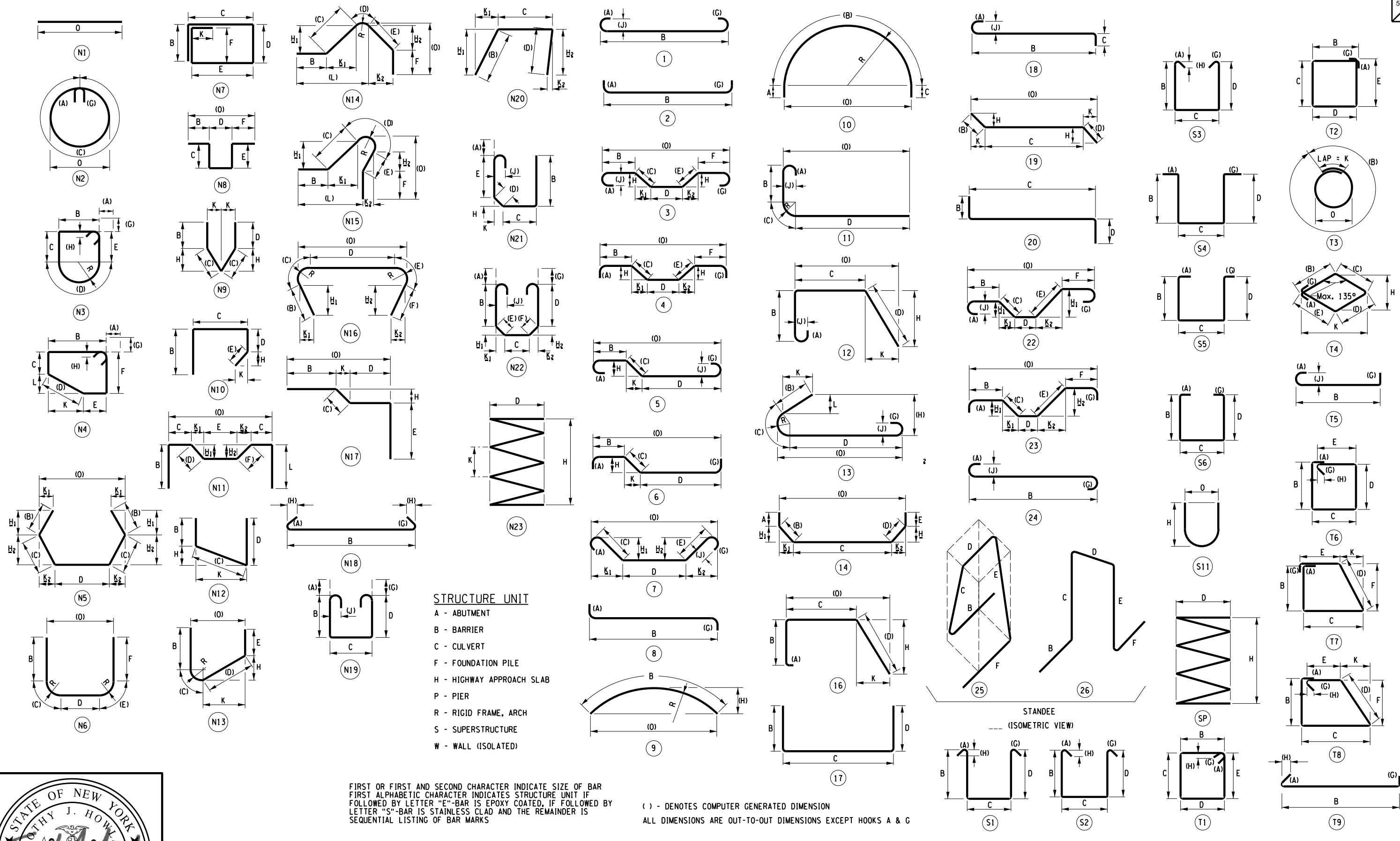


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PROJECT/CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
 RAILING DETAILS
 (6 OF 6)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-30



PLOTDRVR: pdf_cohr_half.ctb
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 ENGINEER: TUH
 DESIGNER: VLG



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PROJECT CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
BAR BENDING DIAGRAMS

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-31

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H1	H2	J	K K1	K2	L	O	R
BEGIN ABUTMENT																			
PLACEMENT 1 - STEM																			
6A1	14	44'-4"	NI	932														44'-4"	
8A3	66	12'-10"	17	2 261		4'-11"	3'-0"	4'-11"											
5A4	66	8'-6"	17	585		2'-9"	3'-0"	2'-9"											
8A5	32	8'-7"	NI	733														8'-7"	
8A6	120	7'-8"	NI	2 456														7'-8"	
5A7	16	11'-0"	17	184		4'-11"	1'-2"	4'-11"											
5A8	32	6'-6"	NI	217														6'-6"	
5A9	26	9'-4"	NI	253														9'-4"	
6A10	18	12'-1"	17	327		-	9'-4"	2'-9"											
5A11	18	9'-8"	I	181	0'-7"	8'-6"					0'-7"			0'-5"					
6A12	8	33'-3"	17	400		-	30'-6"	2'-9"											
6A13	8	20'-9"	17	249		-	18'-0"	2'-9"											
SUBTOTAL PLAIN BARS =				8 778	lb														
PLACEMENT 2 - BACKWALL																			
6A1	6	44'-4"	NI	400														44'-4"	
5A9	14	9'-4"	NI	136														9'-4"	
5A11	10	9'-8"	I	101	0'-7"	8'-6"					0'-7"			0'-5"					
6A12	3	33'-3"	17	150		-	30'-6"	2'-9"											
6A13	3	20'-9"	17	93		-	18'-0"	2'-9"											
6A14	10	5'-9"	NI	86														5'-9"	
6A15	4	9'-3"	17	56		-	6'-6"	2'-9"											
8A16	60	9'-2"	17	1 468		3'-1"	3'-0"	3'-1"											
8A17	16	11'-2"	17	477		4'-1"	3'-0"	4'-1"											
5A18	26	6'-5"	N21	174	0'-7"	-	-	1'-0"	4'-10"		0'-8"			0'-5"	0'-8"				
5A19	55	29'-2"	N21	1 673	0'-7"	-	-	26'-0"	2'-7"		13'-2"			0'-5"	22'-5"				
5A20	10	12'-1"	17	126		-	9'-4"	2'-9"											
4A21	16	3'-2"	17	34		1'-0"	1'-2"	1'-0"											
5A22	2	9'-8"	17	20		3'-4"	3'-0"	3'-4"											
5A23	2	5'-3"	I	11	0'-7"	4'-8"					-			0'-5"					
SUBTOTAL PLAIN BARS =				5 005	lb														
TOTAL PLAIN BARS IN BEGIN ABUTMENT				13783	lb														

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H1	H2	J	K K1	K2	L	O	R
END ABUTMENT																			
PLACEMENT 1 - STEM																			
6A1	19	44'-4"	NI	1 265														44'-4"	
8A3	66	18'-8"	17	3 289		7'-10"	3'-0"	7'-10"											
5A4	66	8'-6"	17	585		2'-9"	3'-0"	2'-9"											
8A5	32	8'-6"	NI	726														8'-6"	
8A6	120	7'-8"	NI	2 456														7'-8"	
5A7	16	16'-10"	17	281		7'-10"	1'-2"	7'-10"											
5A8	32	6'-6"	NI	217														6'-6"	
5A9	26	9'-4"	NI	253														9'-4"	
6A10	26	12'-1"	17	472		-	9'-4"	2'-9"											
5A11	26	9'-8"	I	262	0'-7"	8'-6"					0'-7"			0'-5"					
6A12	13	33'-3"	17	649		-	30'-6"	2'-9"											
6A13	13	20'-9"	17	405		-	18'-0"	2'-9"											
SUBTOTAL PLAIN BARS =				10 860	lb														
PLACEMENT 2 - BACKWALL																			
6A1	6	44'-4"	NI	400														44'-4"	
5A9	14	9'-4"	NI	136														9'-4"	
5A11	10	9'-8"	I	101	0'-7"	8'-6"					0'-7"			0'-5"					
6A12	3	33'-3"	17	150		-	30'-6"	2'-9"											
6A13	3	20'-9"	17	93		-	18'-0"	2'-9"											
6A14	10	5'-9"	NI	86														5'-9"	
6A15	4	9'-3"	17	56		-	6'-6"	2'-9"											
8A16	60	9'-2"	17	1 468		3'-1"	3'-0"	3'-1"											
8A17	16	11'-2"	17	477		4'-1"	3'-0"	4'-1"											
5A18	26	6'-5"	N21	174	0'-7"	-	-	1'-0"	4'-10"		0'-8"			0'-5"	0'-8"				
5A19	55	29'-2"	N21	1 673	0'-7"	-	-	26'-0"	2'-7"		13'-2"			0'-7"	22'-5"				
5A20	10	12'-1"	17	126		-	9'-4"	2'-9"											
4A21	16	3'-2"	17	34		1'-0"	1'-2"	1'-0"											
5A22	2	9'-8"	17	20		3'-4"	3'-0"	3'-4"											
5A23	2	5'-3"	I	11	0'-7"	4'-8"					-			0'-5"					
SUBTOTAL PLAIN BARS =				5 005	lb														
TOTAL PLAIN BARS IN END ABUTMENT				15865	lb														

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PROJECT CLIENT
 HINSDALE BRIDGE 62 COUNTY ROAD 26
 (GILE HOLLOW ROAD) OVER OLEAN CREEK
 B.I.N. 3321770
 TOWN OF HINSDALE
 CATTARAUGUS COUNTY
 DEPARTMENT OF PUBLIC WORKS

DRAWING TITLE
BAR LIST
 (SHEET 1 OF 4)

PROJECT NUMBER
 2181139
 DATE
 OCTOBER 2019
 DRAWING NUMBER
 ST-32

