

# REPLACEMENT OF BRIDGE C-19 (BIN 3342820) HOLLOW ROAD (CR 14) OVER LITTLE WAPPINGER CREEK TOWN OF CLINTON

THE FOLLOWING NEW YORK DEPARTMENT OF TRANSPORTATION STANDARD SHEETS ARE REFERRED TO IN THIS CONTRACT.

M203-1, M203-2, M203-4R2, M203-5, M209-1R1, M603-1R1, M604-5R3, M604-6R1, M604-7, M604-8R1, M606-55R1, M606-56M, M606-57, M606-58, M608-17 THRU M609-23, M619-4R2, M619-5R2, M619-10, M619-11, M619-12R1, M619-13R1, M619-66, M619-70, M645-52R2, M646-15R1, M655-6, M685-1R2

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE CURRENT EDITION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

PROJECT LOCATION

43 SHEETS

DUTCHESS COUNTY

**PROJECT LOCATION:**

THE PROPOSED PROJECT IS THE REPLACEMENT OF THE HOLLOW ROAD (CR 14) BRIDGE C-19 OVER LITTLE WAPPINGER CREEK, LOCATED IN THE TOWN OF CLINTON IN DUTCHESS COUNTY.

**WORK DESCRIPTION:**

REMOVAL OF AN EXISTING 13+/- METER SINGLE SPAN, JACK ARCH STRUCTURE AND REPLACEMENT WITH A 13.02 METER LONG SINGLE-SPAN, PRECAST CONCRETE NEXT BEAM STRUCTURE SUPPORTED ON REINFORCED CONCRETE BRIDGE ABUTMENTS AND WINGWALLS ON SPREAD FOOTING FOUNDATIONS ON BEDROCK. WORK INCLUDES REINFORCED CONCRETE APPROACH SLABS, STONE-FACED CONCRETE VERTICAL BRIDGE PARAPETS AND CAPSTONES, ROADWAY WORK INCLUDES REALIGNMENT FOR WIDENING, FULL-DEPTH PAVEMENT RECONSTRUCTION, GALV. BOX BEAM GUIDE RAILING AND EMBANKMENT CONSTRUCTION.

PREPARED AND RECOMMENDED BY

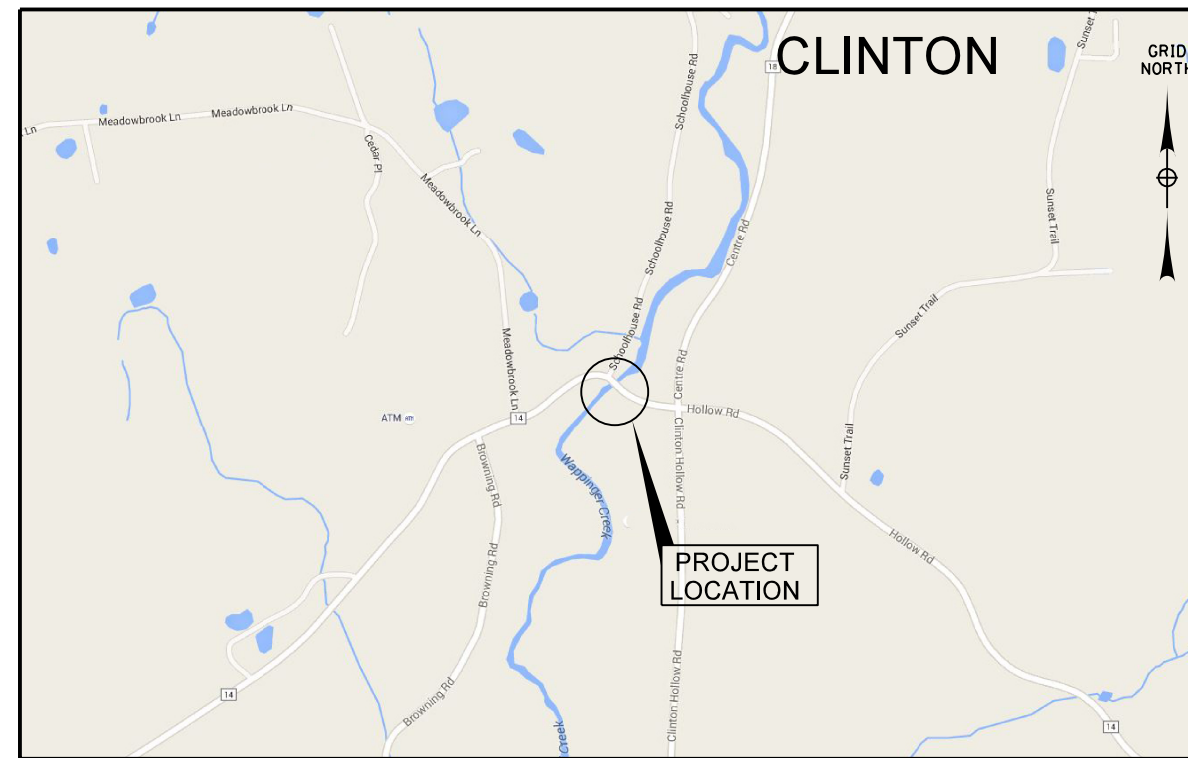
*Gina Zamiskie* AUGUST 2016  
GINA M. ZAMISKIE, P.E. DATE  
TRANSYSTEMS  
NEW YORK STATE P.E. NO. 062673-1

RECOMMENDED BY

NOEL H.S. KNILLE, AIA, ASLA DATE  
COMMISSIONER OF PUBLIC WORKS  
DUTCHESS COUNTY DEPARTMENT OF PUBLIC WORKS

RECOMMENDED BY

ROBERT H. BALKIND, P.E. DATE  
DEPUTY COMMISSIONER  
DUTCHESS COUNTY DEPARTMENT OF PUBLIC WORKS



PROJECT LOCATION  
N.T.S.

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3	LEG-2	LEGEND 2 OF 2
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5	GEN-2	GENERAL NOTES AND ESTIMATE OF QUANTITIES 2 OF 3
6	GEN-3	GENERAL NOTES AND ESTIMATE OF QUANTITIES 3 OF 3
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9	TS-2	TYPICAL ROADWAY SECTIONS 2 OF 2
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20	ST-4	GENERAL REMOVAL PLAN AND ELEVATION
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42	ST-26	TRANSITION RAIL DETAILS 2 OF 2
43	ST-27	MISCELLANEOUS BRIDGE DETAILS

MARCUS J. MOLINARO  
COUNTY EXECUTIVE

NOEL H.S. KNILLE, AIA, ASLA  
COMMISSIONER OF PUBLIC WORKS



DUTCHESS COUNTY  
NEW YORK

AUGUST 2016



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

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 (0.40 MM 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.

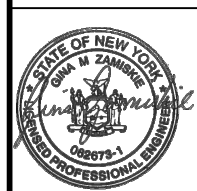

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY DEPARTMENT OF PUBLIC WORKS</b>		
						DATE: MAY 2016 DES. TJA CCF    DR. AL CCF    CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19 BIN 3342820	DRAWING NO: <b>LEG-1</b> SHEET 2
					LEGEND (1 OF 2)		SCALE: NOT TO SCALE	

DATE PLOTTED: 8/18/2016  
 FILE NAME: G:\PROJECTS\17Bridge\CAD\DD2517\LEGEND.SHT

ALIGNMENT			DRAINAGE			ITS			ROW MAPPING			SIGNS			UTILITIES		
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION
⊗	ACC	CENTER OF CURVATURE	+	DINV	INVERT	⊙	IANT_P	ANTENNAS	⊕	MDL1P	DEED LINE, TYPE 1	⊖	S	SINGLE POST	⊞	UEB	ELECTRIC, BOX
+	ACOGO	COGO	▬	DS	STRUCTURE, RECTANGULAR	Ⓜ	IASCSTS	ACCOU. SPEED/COUNT SNSR.S	⊕	MDL2P	DEED LINE, TYPE 2	Ⓟ	S_P	SINGLE POST, PROPOSED	⊞	UEM	ELECTRIC, METER
⊙	ACS	CURVE TO SPIRAL	+	DSI	STRUCTURE, INVERT	Ⓟ	ICABPAD	CABINET & PAD	⊕	MDL3P	DEED LINE, TYPE 3	Ⓟ	SB_P	BACK TO BACK, PROPOSED	⊞	UEMH	ELECTRIC, MANHOLE
△	ADPI_P	DETOUR, POINT OF INTERSECT.	⊗	DSM	STRUCTURE, MANHOLE	Ⓝ	ICCTV	CCTV SITE	⊕	MDL4P	DEED LINE, TYPE 4	Ⓨ	SDEL	DELINEATORS	⊞	UEPT	ELECTRIC, POLE, TRANS.
○	ADPL_P	DETOUR, POINT ON LINE	⊗	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96	Ⓝ	ICDPD	CDPD TRANSCEIVER	⊕	MDL5P	DEED LINE, TYPE 5	Ⓨ	SPM	PARKING METER	⊞	UGM	GAS, METER
○	AEQN	EQUATION	⊗	DSR	STRUCTURE, ROUND	Ⓝ	ICELLT	CELL PHONE TOWER	⊕	MEEP	EASEMENT, EXISTING	Ⓨ	SRM	REFERENCE MARKERS	⊞	UGMH	GAS, MANHOLE
⊕	AEQNAHD	EQUATION AHEAD	⊗	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	Ⓝ	ICJB	CONDUIT JACK OR BORING	⊕	MEPAP_P	EASEMENT, PERM., APPROX.	Ⓨ	SRSC3	SHLD. CTY, 123 DIG.	⊞	UGLM	GAS, LINE MARKER
⊕	AEQNBK	EQUATION BACK	⊗	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	Ⓝ	ICNTLCAB	CONTROLLER CABINET	⊕	MEPP_P	EASEMENT, PERM., BACK LINE	Ⓨ	SRSC4	SHLD. CTY, 4 DIG.	⊞	UGP	GAS/FUEL PUMP
○	AEVT	EVENT STATION	⊗	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	Ⓝ	ICPB	COMMUNICATION PULL BOX	⊕	MESP_P	EASEMENT, PERM., SHAPE	Ⓨ	SRSC2	SHLD. CTY TOUR, 1-2 DIG.	⊞	UGV	GAS, VALVE
⊙	APC	POINT OF CURVATURE	⊗	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	Ⓝ	ICTD	CONDUIT TURNING DOWN	⊕	MFAP_P	FEE ACQUISITION, APPROX.	Ⓨ	SRSC4	SHLD. CTY TOUR, 3-4 DIG.	⊞	UGVT	GAS, VENT
○	APCC	POINT OF COMPOUND CURVATURE	⊗	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	Ⓝ	ICTU	CONDUIT TURNING UP	⊕	MFP_P	FEE ACQUISITION, BACK LINE	Ⓨ	SRS1	SHLD. INTERSTATE	⊞	ULP	LIGHTING, POLE
△	API	POINT OF INTERSECTION	ENVIRONMENTAL			Ⓝ	ICVTRT	COMM. VEH. ROAD TRANSCEIVER	⊕	MFSP_P	FEE ACQUISITION, SHAPE	Ⓨ	SRSN2	SHLD. NATIONAL, 2 DIG.	⊞	ULPM	LIGHTING, POLE, MEDIAN
△	APOB	POINT OF BEGINNING	ENVIRONMENTAL			+	IDEFAULT	DEFAULT	Ⓝ	MHBAP	HIGHWAY BNDRY., APPROX.	Ⓨ	SRSN3	SHLD. NATIONAL, 3 DIG.	⊞	ULPP	LIGHTING, POLE, PED.
○	APOC	POINT OF CURVATURE	CULV	EIOP_P	STR., INLET, OUTLET PROT.	Ⓝ	IEZR	E-ZPASS READER	⊕	MHBCP	HISTORICAL, BLDG. CORNERS	Ⓨ	SRSS2	SHLD. STATE, 2 DIG.	⊞	UMFC	MISC. FILLER CAP
△	APOE	POINT OF END	Ⓝ	EIPGB_P	STR., INLET PROT., GRAVEL BAG	Ⓝ	IEZTR	TRANSMITTAL READER	Ⓝ	MHBP	HIGHWAY BNDRY, PT.	Ⓨ	SRSS3	SHLD. STATE, 3 DIG.	⊞	UOLM	OIL, LINE MARKER
○	APOL	POINT ON LINE	Ⓝ	EIPHS_P	STR., INLET PROT., HAY/STRAW	Ⓝ	IFXCAB	FIBER OPTIC X-CONNECT CABINET	⊕	MJCP	PT., JURIS. CITY	Ⓨ	SRSS4	SHLD. STATE, 4 DIG.	⊞	UP	POLE, WITH UTILITY
○	APOS	POINT ON SPIRAL	Ⓝ	EIPHS_P	STR., INLET PROT., HAY/STRAW	Ⓝ	IFUSSPL	FUSION SPLICE	⊕	MPBC	PT., BUILDING CORNER	TRAFFIC CONTROL			○	UPD	POLE, DEAD (NO UTILITY)
○	APOT	POINT ON TANGENT	Ⓝ	EIPP_P	STR., INLET PROT., PREFAB.	Ⓝ	IHARADV	HAR ADVISORY SIGN	⊕	MPCC	PT., CROSS CUT	Ⓨ	TCBJ	BOX, JUNCTION	⊞	UPL	POLE, WITH LIGHT
△	APOVC	POINT ON VERTICAL CURVE	Ⓝ	EIPSF_P	STR., INLET PROT., SILT FENCE	Ⓝ	IHARST	HAR SITE	Ⓝ	MPDH	PT., DRILL HOLE	Ⓨ	TCBP	BOX, PULL BOX	⊞	USMH	SANITARY SEWER MANHOLE
△	APOVT	POINT ON VERTICAL TANGENT	Ⓝ	EIPSF_P	STR., INLET PROT., SILT FENCE	Ⓝ	ILC	LOAD CENTER	Ⓝ	MPF	PT., FENCE LOCATION	Ⓨ	TCBS	BOX, SPLICE	⊞	UTB	TELEPHONE, BOOTH
Y	APORC	POINT ON REVERSE CURVE	Ⓝ	ERCB	RISER, CONCRETE BOX	Ⓝ	IMECSPL	MECHANICAL SPLICE	⊕	MPIP	PT., IRON PIPE	Ⓨ	TCMC	MICROCOMPUTER CABINET	⊞	UTLM	TELEPHONE, LINE MARKER
⊙	APT	POINT OF TANGENCY	Ⓝ	ETRS_P	TRAP, SEDIMENT	Ⓝ	IMSCS	PORT. SPEED & COUNT SENSOR	○	MPIR	PT., IRON ROD	Ⓨ	TCPP	PED POLE	⊞	UTMH	TELEPHONE, MANHOLE
⊙	APVC	POINT OF VERTICAL CURVATURE	+	EWFG	WETLAND FLAG	Ⓝ	IMSCTS	MICRO SPEED & COUNT SENSOR	Ⓝ	MPM	PT., MONUMENT	Ⓨ	TCSH	SIGNAL HEADS	⊞	UTVLM	CABLE TV, LINE MARKER
△	APVCC	POINT OF VERT. CMPND CURVE	GEOTECHNICAL			Ⓝ	IMT	MICROWAVE TRANSCEIVER	Ⓝ	MPMM	PT., MONUMENT, MISC.	Ⓨ	TCSH	SIGNAL HEADS	⊞	UTVPB	CABLE TV, PULL BOX
⊙	APVI	POINT OF VERT. INTERSECTION	Ⓝ	GDH	DRILL HOLE	Ⓝ	IOVHMS	PERM. OVERHEAD VMS	Ⓝ	MPN	PT., NAIL	TRAFFIC WORK ZONE			⊞	UUB	UNKNOWN, BOX
△	APVRC	POINT OF VERT. REVERSE CURVE	LANDSCAPE			Ⓝ	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	Ⓝ	MPRS	PT., RAILROAD SPIKE	Ⓨ	TWZAP_P	ARROW PANEL	⊞	UUJB	UNKNOWN, JUNCTION BOX
⊙	APVT	POINT OF VERTICAL TANGENCY	+	LELS	ELEVATION, SPOT	Ⓝ	IPEDS	PEDESTRIAN SIGNAL HEAD	Ⓝ	MPSP	PT., SPIKE	Ⓨ	TWZAPC_P	ARROW PANEL, CAUTION MODE	⊞	UUPB	UNKNOWN, PULL BOX
⊙	ASC	SPIRAL TO CURVE	Ⓝ	LFP	FLAG POLE	Ⓝ	IPSS	PAVEMENT SURFACE SENSOR	Ⓝ	MPST	PT., STAKE	Ⓨ	TWZAPT_P	ARROW PANEL, TRAILER OR SUPPORT	⊞	UUVL	UNKNOWN, VALVE
△	ASPI	SPIRAL POINT OF INTERSECTION	Ⓝ	LMB	MAILBOX	Ⓝ	IPVMS	PERM. VMS	Ⓝ	MPTW	PT., TREE W/ WIRE	Ⓨ	TWZBCD_P	BARRICADE (TYPE III)	⊞	UUVT	UNKNOWN, VENT
○	ASTS	SPIRAL TO SPIRAL	Ⓝ	LMB	MAILBOX	Ⓝ	IRM	RAMP METER	+	MPWL	PT., WALL LOCATION	Ⓨ	TWZCMS_P	CHANGEABLE MESSAGE SIGN (PVMS)	⊞	UUW	UNKNOWN, WELL
⊗	AST	SPIRAL TO TANGENT	Ⓝ	LPB	PAPER BOX	Ⓝ	IRWIS	RDWY WEATHER INFO. SENSOR	ROW ACQUISITION			Ⓨ	TWZFLG_P	FLAGGER	⊞	UWFH	WATER, FIRE HYDRANT
⊗	ATS	TANGENT TO SPIRAL	Ⓝ	LPB	PAPER BOX	Ⓝ	ISP	SOLAR PANEL	Ⓝ	MFS_P.T	FEE ACQUISITION	Ⓨ	TWZFT_P	FLAG TREE	⊞	UWM	WATER, METER
△	AVEVT	VERTICAL EVENT POINT	○	LPST	POST, SINGLE	Ⓝ	ISST	SPREAD SPECT. TRANSCEIVER	Ⓝ	MEPS_P.T	EASEMENT, PERMANENT	Ⓨ	TWZIA_P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)	⊞	UWMH	WATER, MANHOLE
○	AVHIGH	VERTICAL HIGH POINT	Ⓝ	LRB	ROCK, BOULDER	Ⓝ	ITDB	TELEPHONE DEMARCATON BLK	Ⓝ	METS_P.T	EASEMENT, TEMPORARY	Ⓨ	TWZLUM_P	LUMINAIRE (TEMPORARY)	⊞	UWV	WATER, VALVE
○	AVLOW	VERTICAL LOW POINT	Ⓝ	LSHC	SHRUB, CONIFEROUS	Ⓝ	ITP	SUBSURFACE TEMP. PROBE	Ⓝ	METS_P.T	EASEMENT, TEMPORARY	Ⓨ	TWZSDT_P	SYMBOL, DIRECTION OF TRAFFIC	⊞	UWV	WATER, VALVE
BRIDGE			Ⓝ	LSHD	SHRUB, DECIDUOUS	Ⓝ	IVTRT	VEHICLE TO RDWY TRANSCEIVER	Ⓝ	METS_P.T	OCCUPANCY, TEMPORARY	Ⓨ	TWZSDT_P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR			
□	BSC	BRIDGE, SCUPPER	Ⓝ	LTC	TREE, CONIFEROUS	Ⓝ	IWIMD	WEIGHT IN MOTION DETECTOR	Ⓝ	METS_P.T	OCCUPANCY, TEMPORARY	Ⓨ	TWZSGN_P	SIGN (TEMPORARY)			
CONTROL			Ⓝ	LTD	TREE, DECIDUOUS	Ⓝ	IWVR	WIRELESS VIDEO REPEATER	Ⓝ	MFS_P.T	FEE ACQUISITION W/O ACCESS	Ⓨ	TWZSIG_P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)			
△	CBP	BASELINE, POINT	Ⓝ	LTS	TREE, STUMP	Ⓝ	IWVRC	WIRELESS VIDEO RECEIVER	ROADWAY			Ⓨ	TWZWL_P	WARNING LIGHT			
○	CBPOL	BASELINE, POINT ON LINE	+	LUKP	UNKNOWN POINT	Ⓝ	IWVTT	WIRELESS VIDEO TRANSMITTER	⊕	RES_P	ELEVATION, SPOT	Ⓨ	TWZWV_P	WORK VEHICLE			
⊙	CBSP	BASELINE, SPUR POINT	1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).			Ⓝ			Ⓝ	RGA	GUIDE RAIL, ANCHOR	Ⓨ	TWZWVA_P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR			
⊗	CBTP	BASELINE, TIE POINT	2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).			Ⓝ			○	RGP	GUIDE POST, SINGLE						
□	CPBM	BENCHMARK	3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.			Ⓝ											
⊕	CPH	POINT, HORIZ. PHOTOGRAMMETRY	4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.40 mm ON B SIZE DRAWINGS).			Ⓝ											
⊕	CPSM	POINT, SURVEY MARKER, PERM.	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.			Ⓝ											
⊕	CPSV	POINT, VERT., PHOTOGRAMMETRY	6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED			Ⓝ											

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridge\CADD\2517\LEGEND2.SHT

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
	DATE: MAY 2016	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19		BIN 3342820				
DES. TJA CCF	DR. AL CCF	CK. GMZ	DETAILS: LEGEND (2 OF 2)		SCALE: NOT TO SCALE	DRAWING NO: LEG-2		
						SHEET 3		

ESTIMATE OF QUANTITIES



ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
201.06	CLEARING AND GRUBBING	LS	1
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	1
202.19	REMOVAL OF SUBSTRUCTURES	CM	320
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	1250
203.03	EMBANKMENT IN PLACE	CM	1100
203.07	SELECT GRANULAR FILL	CM	80
203.21	SELECT STRUCTURE FILL	CM	500
206.01	STRUCTURE EXCAVATION	CM	950
206.0201	TRENCH AND CULVERT EXCAVATION	CM	115
206.05	TEST PIT EXCAVATION	EACH	4
207.20	GEOTEXTILE BEDDING	SQM	160
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SQM	70
207.27	PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN	SQM	94
209.13	SILT FENCE-TEMPORARY	M	280
209.1501	TURBIDITY CURTAIN - TEMPORARY	M	70
209.1901	ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE A, INTERMEDIATE	SQM	80
304.11	SUBBASE COURSE, TYPE 1	CM	450
402.017902	TRUE & LEVELING F9, SUPERPAVE HMA, 70 SERIES COMPACTION	MT	60
402.126102	12.5MM F1 TOP COURSE HMA, 60 SERIES COMPACTION	MT	170
402.126212	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.126202	QU	9
402.196902	19MM F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT	250
402.196912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.196902	QU	12
402.376902	37.5MM F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT	350
402.376912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.376902	QU	18
407.0102	DILUTED TACK COAT	L	600
490.3	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SQM	30
552.99 01	EXCAVATION SUPPORT SYSTEM	SQM	380
553.010001	COFFERDAMS (TYPE 1)	EACH	1
553.010002	COFFERDAMS (TYPE 1)	EACH	1
555.08	FOOTING CONCRETE, CLASS HP	CM	30
555.970100CA	CONCRETE FOR STRUCTURES, CLASS HP (REINFORCEMENT INCLUDED AND NO BAR LIST IN PLANS)	CM	150
555.970200CA	FOOTING CONCRETE, CLASS HP (REINFORCEMENT INCLUDED AND NO BAR LIST IN PLANS)	CM	150
556.02019908	ADJUSTMENT TO UNCOATED BAR REINFORCEMENT WHEN REINFORCEMENT IS INCLUDED IN STRUCTURAL CONCRETE ITEM	KG	4500
556.02029908	ADJUSTMENT TO EPOXY COATED BAR REINFORCEMENT WHEN REINFORCEMENT IS INCLUDED IN STRUCTURAL CONCRETE ITEM	KG	4500
557.2002	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYPE 2 FRICTION	SQM	170
557.2101 16	FIELD CAST JOINTS BETWEEN PRECAST CONCRETE UNITS	M	42
559.1696 18	PROTECTIVE SEALING OF STRUCTURAL CONCRETE	SQM	320
559.1896 18	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SQM	320
560.01	DIMENSION STONE MASONRY	SQM	20
560.0401	STONE MASONRY	SQM	60
563.0001 02	NORTHEAST EXTREME TEE - NEXT BEAM TYPE D	SQM	145
565.1922	TYPE E.L. BEARING (251 TO 500 KN)	EACH	16
568.70	TRANSITION BRIDGE RAILING	M	41
569.03	VERTICAL FACED CONCRETE PARAPET	M	30
595.50 18	SHEET-APPLIED WATERPROOFING MEMBRANE	SQM	350
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 375 MM DIAMETER	M	10
603.9824	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 600 MM DIAMETER	M	24
604.300103	RECTANGULAR DRAINAGE STRUCTURE (TYPE A) FOR #3 WELDED FRAME	M	1.5
606.10	BOX BEAM GUIDE RAILING	M	6
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	M	86

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
606.120101	BOX BEAM END PIECE	EACH	3
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	3
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	M	65
606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	M	15
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	MT	25
610.1402	TOPSOIL - ROADSIDE	CM	90
610.1403	TOPSOIL - LAWNS	CM	10
610.1601	TURF ESTABLISHMENT - ROADSIDE	SQM	820
610.1602	TURF ESTABLISHMENT - LAWNS	SQM	50
614.060403	TREE REMOVAL OVER 450 MM TO 600 MM DIAMETER BREAST HEIGHT STUMPS CUT TO BELOW GRADE	EACH	10
616.09 24	LIVE STAKE PLANTINGS 51MM TO 100MM	EACH	140
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	12
619.1701	TEMPORARY CONCRETE BARRIER, (UNPINNED)	M	26.8
619.27	MAILBOXES	EACH	2
620.03	STONE FILLING (LIGHT)	CM	10
620.04	STONE FILLING (MEDIUM)	CM	90
625.01	SURVEY OPERATIONS	LS	1
627.5014 08	CUTTING PAVEMENT	M	40
637.12	ENGINEER'S FIELD OFFICE - TYPE 2	MNTH	12
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EACH	6
646.32	STEEL POST, 3.0 KG/M	EACH	4
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 2.8 SQUARE METERS)	EACH	20
655.1003	WELDED FRAME AND RECTANGULAR GRATE 3	EACH	1
685.01	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 0.38MM	M	260
685.02	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES-0.38MM	M	272
697.03	FIELD CHANGE PAYMENT	DC	85000
698.04	ASPHALT PRICE ADJUSTMENT	DC	9100
698.05	FUEL PRICE ADJUSTMENT	DC	18000
699.040001	MOBILIZATION	LS	1

DATE PLOTTED: 8/29/2016  
FILE NAME: G:\PROJ\2517\Bridges\CADD\2517 GN 1 NOTES.SHT

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
						DATE: MAY 2016 DES. TJA CCF    DR. AL CCF    CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
DETAILS: <b>GENERAL NOTES AND ESTIMATE OF QUANTITIES</b> 1 OF 3						SCALE: NOT TO SCALE	DRAWING NO: <b>GEN-1</b> SHEET 4	

**ROADWAY GENERAL NOTES**

- MATERIAL AND CONSTRUCTION SPECIFICATIONS: "STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS," NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSOT) OFFICE OF ENGINEERING, CURRENT EDITION WITH ALL PROVISIONS AND ADDENDUMS, SHALL BE IN EFFECT FOR THIS PROJECT. CURRENT NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NYS SUPPLEMENT SHALL BE IN EFFECT FOR THIS PROJECT.
- ADDITIONAL NOTES MAY BE FOUND ON SUBSEQUENT DRAWINGS, SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWING THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING CONDITIONS AND DIMENSIONS WITH THOSE SHOWN ON THE PLANS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND MAKE THE APPROPRIATE CHANGES BY AS APPROVED BY THE ENGINEER. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE OF SURFACE RUNOFF FROM THE TRAVEL LANES AND CONTROL OF THE RUNOFF TO PREVENT EROSION, POLLUTION, SEDIMENTATION OR OTHER DISCHARGES WHICH WOULD AFFECT PROPERTIES ADJACENT TO THE WORK SITE. ALL MEASURES TAKEN TO PROVIDE POSITIVE DRAINAGE SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT. THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES, WITHIN THE CONTRACT LIMITS, CLEAN AND FULLY OPERATIONAL AT ALL TIMES (AOBE). THIS WORK SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.
- THE PLANS PROVIDE KNOWN SUBSURFACE AND ABOVE GROUND STRUCTURES, AND UTILITIES BELIEVED TO EXIST IN THE WORK AREA. THE EXACT LOCATION MAY VARY FROM THE LOCATIONS INDICATED. THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES MAY DIFFER FROM THAT SHOWN OR MAY NOT BE SHOWN AND IT SHALL BE HIS/HER RESPONSIBILITY TO PROCEED WITH CARE IN EXECUTING ANY WORK. THE CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK AT 1-800-962-7962 AT LEAST 48 HRS PRIOR TO EXCAVATION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO CONDUCT EXPLORATORY TEST PITS AS MAY BE REQUIRED TO DETERMINE UNDERGROUND CONDITIONS, PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS CONTRACT ITEMS.
- THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS, AND HEDGES NOT SPECIFICALLY CALLED OUT TO BE REMOVED, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. PAVED AREAS DISTURBED BY THE CONTRACTOR AS PART OF WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED TO ACCEPTABLE CONDITION AS SPECIFIED BY AND SATISFACTORY TO THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARDING/PROTECTING ALL OPEN EXCAVATION IN ACCORDANCE WITH PROVISIONS OF SECTION 107.05 "SAFETY & HEALTH REQUIREMENTS" OF THE NYSOT STANDARD SPECS.
- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT WORK IN A MANNER TO PREVENT OR REDUCE TO A MINIMUM, ANY DAMAGE TO THE STREAM FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT OR MATERIALS IN OR NEAR THE STREAM. 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.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE NATURE OF RECONSTRUCTION PROJECTS AND THAT THE EXACT EXTENT OF THE WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE START. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE FIELD CONDITIONS AND AOBE.
- THERE SHALL BE NO CLAIM AGAINST THE COUNTY BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS INDICATED IN THE CONTRACT.
- THE CONTRACTOR SHOULD NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR AS ORDERED BY THE ENGINEER AND PAYMENT SHALL BE MADE AT THE PRICE BID FOR THE APPROPRIATE ITEMS.
- NO PAYMENT SHALL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS, IN THE SPECIFICATIONS, OR UNDER THE HEADING GENERAL NOTES UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING OR OTHER DEVICES THAT MAY BE REQUIRED OR THAT MAY BE DIRECTED BY THE ENGINEER TO PROTECT THE SAFETY OF ADJACENT STRUCTURES, ROADWAYS OR THE VARIOUS ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE.
- THE CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT AS REQUIRED AND IN ACCORDANCE WITH SECTION 625 OF THE STANDARD SPECIFICATIONS. COST FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 625.01-SURVEY OPERATIONS. THE CONTRACTOR SHALL PERFORM BOTH A PRE-CONSTRUCTION AND POST-CONSTRUCTION BUILDING SURVEY AT THREE (3) PROPERTIES ADJACENT TO THE SITE IN THE TOWN OF CLINTON, NY AT (1) 863 HOLLOW ROAD; (2) 860 HOLLOW ROAD; AND (3) 851 HOLLOW ROAD. THIS WORK SHALL CONSIST OF PREFORMING BUILDING CONDITION SURVEYS AND PREPARING PERMANENT RECORDS PRIOR TO COMMENCEMENT OF WORK, AFTER COMPLETION OF WORK, AND AT TIMES DURING CONSTRUCTION A.O.B.E. NO DIRECT PAYMENT WILL BE MADE FOR THE BUILDING CONDITION SURVEYS. ALL ASSOCIATED COSTS SHALL BE INCLUDED UNDER THE SURVEY OPERATIONS ITEM IN THE CONTRACT (ITEM 625.01). REFER TO THE GENERAL ROADWAY PLAN NOTES FOR SPECIFIC BUILDING CONDITION SURVEY REQUIREMENTS.
- THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING TO BECOME FAMILIAR WITH THE PRESENT CONDITIONS AND TO JUDGE THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO INCLUDE IN THE BID ALL ITEMS AND MATERIALS WHICH ARE REQUIRED TO BE FURNISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- IF THE ENGINEER NOTIFIES THE CONTRACTOR OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTIONS SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.
- THE CONTRACTOR SHALL BE REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS.
- AS REQUIRED BY SECTION 107-10 AND 107-11 OF THE NYSOT STANDARD SPECIFICATIONS, THE CONTRACTOR WILL OBTAIN WRITTEN PERMISSION FROM THE ENGINEER PRIOR TO USING A SPOIL AREA.

**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 202.120001.

**REMOVAL NOTES CONTINUED**

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 202-3.01 GENERAL AND SAFETY REQUIREMENTS. A REMOVAL PLAN, SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION.
- RECORD PLANS FOR THIS STRUCTURE ARE NOT AVAILABLE.

**BRIDGE GENERAL NOTES**

- DESIGN SPECIFICATIONS: NYSOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS AND ADDENDUMS IN EFFECT AS OF MAY 2016 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AT 28 DAYS: F'C: 3000 PSI).
- LIVE LOAD: AASHTO HL-93.
- CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED JANUARY 1, 2016, WITH CURRENT ADDITIONS AND MODIFICATIONS.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN METRIC UNITS.
- THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21-SELECT STRUCTURE FILL.
- THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- THE LOAD RATINGS ARE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AASHTO MANUAL FOR BRIDGE EVALUATION.
- THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL: THE MAINTENANCE AND MANAGEMENT OF ROADWAYS AND BRIDGES.
- NO SUSPECT ASBESTOS CONTAINING MATERIALS WERE OBSERVED AS PART OF THE EXISTING BRIDGE. HOWEVER, THE CONTRACTOR IS CAUTIONED THAT MATERIALS CONTAINING ASBESTOS MAY EXIST IN THE MORTAR ON THE STONE PARAPET WALLS.
- THE CONTRACTOR IS ADVISED THAT THE BRIDGE INVENTORY INDICATES THAT LEAD-BASED PAINT WAS USED ON THE BRIDGE STRUCTURE.
- HIGH VOLTAGE ELECTRICAL LINES ARE IN PROXIMITY TO THIS BRIDGE. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR CONTRACTOR SAFETY REQUIREMENTS.

**STREAM NOTES**

- ORDINARY HIGH WATER (OHW) DEFINED AS THE WATER SURFACE ELEVATION OF THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS HAS NOT BEEN COMPUTED FOR THIS PROJECT. THE 10-YEAR FLOOD EVENT (10% ANNUAL CHANCE FLOOD) WATER SURFACE ELEVATION IS 89.46 METERS AS PROVIDED IN THE FEMA FLOOD INSURANCE STUDY OF THE LITTLE WAPPINGER CREEK, REACH 1.
- ORDINARY WATER IS ESTIMATED TO BE WATER SURFACE ELEVATION 89.3 METERS BASED ON THE BRIDGE INVENTORY FINDINGS. 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 AN OBSERVED OR ESTIMATED ELEVATION RATHER THAN A COMPUTED ONE.
- LOW WATER IS ESTIMATED TO BE WATER SURFACE ELEVATION 89.0 METERS. 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 OR ESTIMATED ELEVATION RATHER THAN A COMPUTED ONE.
- A HYDRAULIC ANALYSIS, AS PART OF THE FEMA FLOOD INSURANCE STUDY OF THE LITTLE WAPPINGER CREEK, REACH 1, PROVIDES A 50-YEAR DESIGN STORM WATER SURFACE ELEVATION OF 89.76 METERS. THERE IS A 1.5 M CLEARANCE/FREEBOARD FROM THIS WATER SURFACE ELEVATION TO THE BOTTOM OF THE EXISTING BRIDGE THAT IS GREATER THAN NYSOT GUIDELINES OF 0.6 METERS. THE EXISTING HYDRAULIC OPENING IS CONSIDERED ADEQUATE FOR THE 50-YEAR DESIGN STORM. THE PROPOSED BRIDGE HYDRAULIC OPENING WILL PROVIDE EQUAL OR GREATER VERTICAL CLEARANCE AND A SIMILAR WATERWAY OPENING.
- 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.
- LITTLE WAPPINGER CREEK IS CLASSIFIED AS A CLASS "B (T)" STATE REGULATED AND PROTECTED STREAM. THE CONTRACTOR SHALL NOT CONDUCT ANY WORK IN THE STREAM DURING THE PERIOD OF OCTOBER 1 THROUGH APRIL 30. TREE CLEARING IS RESTRICTED TO THE PERIOD BETWEEN OCTOBER 31ST AND MARCH 30TH.

**FOUNDATION NOTES**

- THE EAST ABUTMENT FOOTINGS ARE DESIGNED TO EXERT A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 15,1 KSF AND A SERVICE LIMIT STATE BEARING PRESSURE OF 9.2 KSF.
- THE WEST ABUTMENT FOOTINGS ARE DESIGNED TO EXERT A MAXIMUM STRENGTH LIMIT STATE BEARING PRESSURE OF 15,2 KSF AND A SERVICE LIMIT STATE BEARING PRESSURE OF 7.7 KSF.
- THE ABUTMENT AND WINGWALL FOOTINGS SHALL BE COMPLETELY SUPPORTED ON COMPETENT ROCK.

**SUBSTRUCTURE NOTES**

- ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21 SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
- HIGHWAY EMBANKMENT MATERIAL (FROM STRUCTURE EXCAVATION BACKFILL) AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
- THE CONTRACTOR, WITH THE PERMISSION OF THE ENGINEER, MAY ELECT TO INTRODUCE CONSTRUCTION JOINTS IN THE ABUTMENTS AT LOCATIONS NOT SHOWN ON THE PLANS. THESE CONSTRUCTION JOINTS SHALL BE PROVIDED WITH SHEAR KEYS AND WATERSTOPS.
- ALL EXPOSED CONCRETE FACES OF ABUTMENTS SHALL BE SEALED ACCORDING TO ITEM 559.16960118.

**COFFERDAM 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-IN-CHARGE SHALL CONTACT THE COUNTY FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.
- IF MULTIPLE COFFERDAMS ARE REPLACED BY A SINGLE SYSTEM, AS PERMITTED BY THE ENGINEER, PAYMENT SHALL BE BASED ON ALL OF THE APPLICABLE COFFERDAM ITEMS INDICATED ON THE PLANS.
- DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE ENGINEER. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES, SILT FENCE OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.

**RECONSTRUCTION NOTES**

- 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 COUNTY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN-PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA, INCLUDING OFFLOADING, SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIALS TO THE AREA BELOW THE BRIDGE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.
- 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 UNIT PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.
- UPON COMPLETION OF WORK THE CONTRACTOR SHALL RESTORE THE STREAM BANKS TO ORIGINAL CONDITION. A.O.B.E. COST TO BE INCLUDED IN VARIOUS ITEMS OF THE CONTRACT.
- IF THE STRUCTURE HAS A BRIDGE IDENTIFICATION NUMBER (B.I.N.) PLATE ATTACHED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE PLATE DURING CONSTRUCTION OR REMOVE AND REMOUNT THE PLATE AFTER CONSTRUCTION IS COMPLETED.

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CAD\2517.GN 2 NOTES.SHT

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE				<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>						
						DATE:	MAY 2016		PROJECT:	REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19		BIN 3342820			
						DES. TJA CCF	DR. AL CCF	CK. GMZ	DETAILS:	<b>GENERAL NOTES AND ESTIMATE OF QUANTITIES</b> 2 OF 3		SCALE:	NOT TO SCALE	DRAWING NO:	<b>GEN-2</b>
															SHEET 5

**STONE FACED BARRIER NOTES**

1. THE DETAILS FOR THE BARRIER REINFORCEMENT ARE FOR THE CAST-IN-PLACE OPTION ONLY. COST OF BARRIER AND ANCHORAGE REINFORCEMENT ORIGINATING IN THE CURB POUR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BARRIER ITEM.
2. THE DETAILS FOR THE CURB REINFORCEMENT ARE FOR THE CAST-IN-PLACE OPTION ONLY. COST OF CURB ANCHORAGE REINFORCEMENT ORIGINATING IN THE PRESTRESSED UNIT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED UNIT ITEM.
3. JOINTS FOR STONE MASONRY MAY VARY FROM 1/2" INCH TO 1 INCH THICKNESS.
4. FINISH OF STONE MASONRY SHALL BE AS FOLLOWS: LIGHT BROWN FIELD STONE
5. THE CAPSTONE ON THE STONE FACED BARRIER SHALL BE DIMENSION MASONRY.
6. ALL JOINTS FOR DIMENSION MASONRY SHALL BE 1/2 INCH THICKNESS.
7. FINISH OF DIMENSION MASONRY SHALL BE AS FOLLOWS: LIGHT BROWN FIELD STONE.

**SUPERSTRUCTURE NOTES**

1. THE UNDERSIDE OF THE LONGITUDINAL CLOSURE POURS SHALL BE FORMED USING REMOVABLE FORMWORK ONLY.
2. ANY SURFACE THAT WILL BE IN CONTACT WITH THE CLOSURE POUR CONCRETE USED IN THE LONGITUDINAL JOINTS AND BACKWALL SHALL BE THOROUGHLY WET FOR 12 HOURS IMMEDIATELY PRIOR TO PROCEEDING WITH THE CLOSURE PLACEMENT. THE CONTRACTOR SHALL REMOVE ALL STANDING WATER WITH OIL-FREE COMPRESSED AIR AND SHALL PROTECT THE SURFACES FROM DRYING, SO THE CONCRETE REMAINS IN A CLEAN, SATURATED SURFACE DRY CONDITION UNTIL PLACEMENT OF THE CLOSURE POUR CONCRETE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE CLOSURE POUR CONCRETE ITEM.
3. THE METHACRYLATE CRACK SEALER, AS CALLED FOR IN THE CLOSURE POUR CONCRETE, ITEM 557.21020016, SHALL BE APPLIED TO THE DECK SURFACE AT ALL LONGITUDINAL CONSTRUCTION JOINTS AND THE TRANSVERSE CONSTRUCTION JOINTS BETWEEN THE SUPERSTRUCTURE AND THE APPROACH SLABS. THE CONCRETE SHALL HAVE A MINIMUM AGE OF 30 DAYS AT THE TIME OF SEALER APPLICATION.
4. TOP SURFACES OF BEAM FLANGES, LONGITUDINAL CLOSURE POURS, DIAPHRAGMS AND APPROACH SLABS SHALL BE SEALED ACCORDING TO ITEM 559.18960118 PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS.

**PRESTRESSED CONCRETE "NEXT" BEAM NOTES**

1. THE CONTRACTOR MAY PROPOSE DEBONDING OF PRETENSIONING STRANDS FOR 6 INCHES FROM ENDS OF BEAMS TO REDUCE THE TENDENCY FOR BEAM ENDS TO CRACK. TOTAL NUMBER OF DEBONDED STRANDS (DESIGN BONDING SHOWN ON THE CONTRACT PLANS AND CRACK CONTROL DEBONDING COMBINED) SHALL NOT EXCEED 50% OF TOTAL NUMBER OF STRANDS.
2. ALL FABRICATION, STRENGTH TESTING, CURING AND ERECTION PROCEDURES FOR PRESTRESSED CONCRETE BRIDGE BEAMS SHALL FOLLOW THE REQUIREMENTS OF THE PCMC.
3. ALL BEAMS SHALL HAVE AN EXPOSED AGGREGATE FINISH ON ANY SURFACES THAT WILL BE IN CONTACT WITH THE CLOSURE POUR CONCRETE USED IN THE LONGITUDINAL JOINTS AND DIAPHRAGMS.
4. THE AGGREGATE USED IN THE PRECAST CONCRETE BEAMS SHALL MEET THE REQUIREMENTS FOR TYPE 2 COARSE AGGREGATE AS SPECIFIED IN SECTION 500 OF THE NYS STANDARD SPECIFICATIONS.
5. CAMBER GROWTH CONTROL MEASURES SHALL BE PROPOSED BY THE CONTRACTOR AND DETAILED IN THE SHOP DRAWINGS TO ENSURE THAT FINAL BEAM CAMBER MEETS THE REQUIRED MID-SPAN CAMBER.
6. THE SUGGESTED CAMBER GROWTH CONTROL MEASURE IS TO PRELOAD NEXT BEAM UNITS (IN STORAGE) TO RESTRAIN GROWTH. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ALONG WITH DESIGN CALCULATIONS SHOWING THAT THE CONCRETE TENSILE STRESS DOES NOT EXCEED 3.447 MPa UNDER PRELOAD.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FOR SHIPPING, HANDLING, AND INSTALLATION OF THE NEXT BEAMS WITHOUT DAMAGE. MECHANICAL CONNECTORS MAY BE USED TO FACILITATE FABRICATION AND INSTALLATION METHODS. THE COST OF FURNISHING AND PLACING MECHANICAL CONNECTORS CONFORMING TO MATERIAL SPECIFICATION 709-10 SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE NEXT BEAM ITEMS.

**DECK CLOSURE POUR PLACEMENT NOTES**

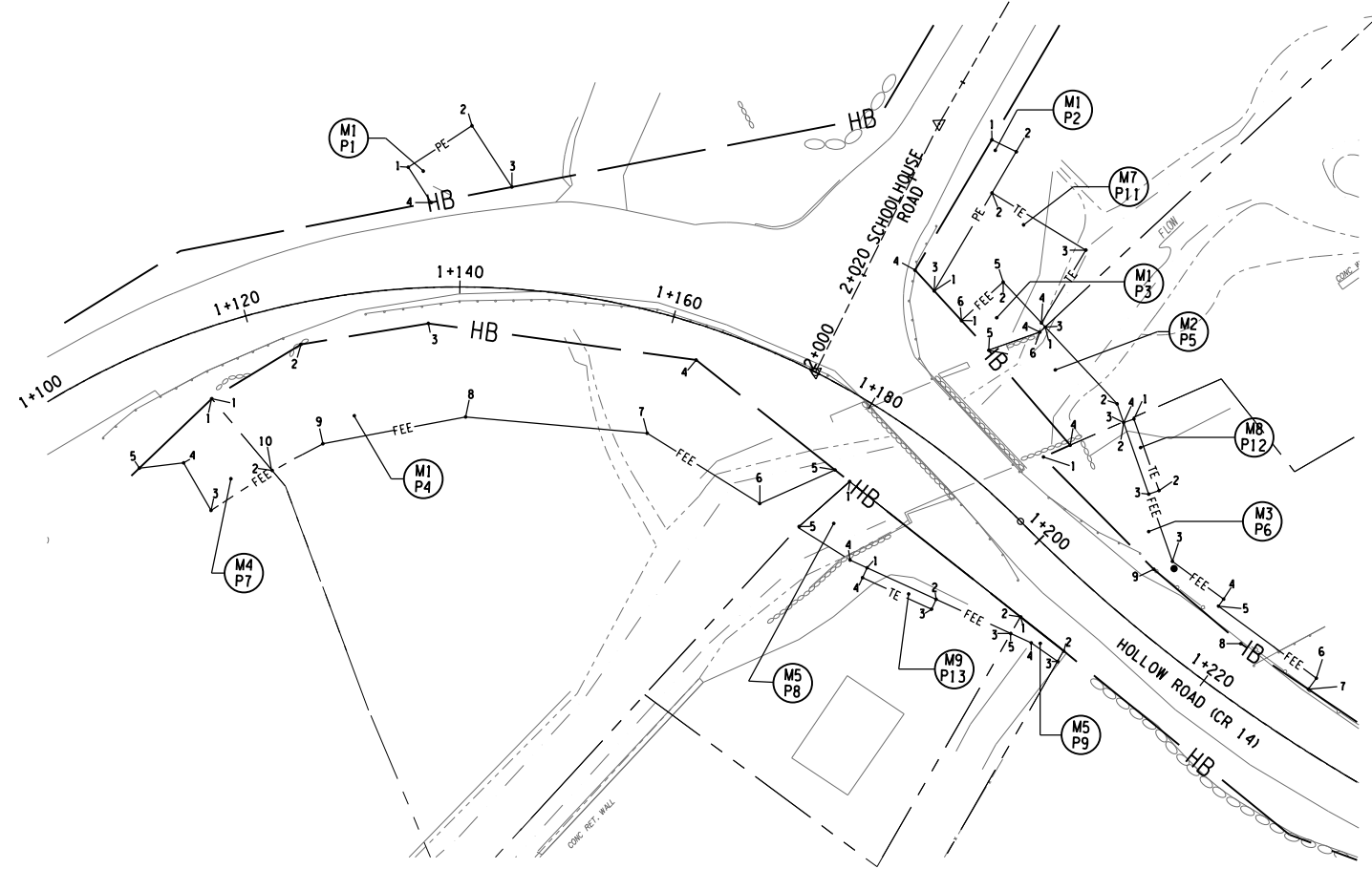
1. CONCRETE PLACEMENT AND FINISHING OPERATIONS SHALL BE PERFORMED AS RAPIDLY AS POSSIBLE. THE ENGINEER MAY ORDER THE CONTRACTOR TO STOP PLACEMENT OPERATIONS AT ANY TIME IF, IN THE ENGINEER'S OPINION, CONCRETE PLACED DURING THE PLACEMENT HAS STARTED TO SET, OR IS ABOUT TO SET, AND FURTHER PLACEMENT OF CONCRETE WILL CAUSE DEFLECTION CRACKING.
2. WET BURLAP CURING BLANKETS ARE REQUIRED TO BE PLACED ON THE CONCRETE DECK CLOSURE POUR WITHIN 30 MINUTES OF THE CONCRETE BEING DEPOSITED INTO THE FORMS OR 5 MINUTES AFTER FINISHING, WHICHEVER COMES FIRST.
3. IN THE EVENT THE CONTRACTOR'S DECK CLOSURE POUR PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY THE CONTRACTOR'S OWN DECISION OR BY ORDER OF THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FINISHED DECK GRADE WHICH MATCHES THE PLANNED PROFILE. ANY SUBSEQUENT REVISIONS TO DECK FORMS MADE NECESSARY BY SUCH ACTION SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. THE END DIAPHRAGMS MUST BE IN PLACE PRIOR TO PROCEEDING WITH THE DECK CLOSURE POUR PLACEMENT.
5. THE CONTRACTOR SHALL WAIT A MINIMUM OF 72 HOURS FOLLOWING COMPLETION OF THE END DIAPHRAGM PLACEMENT BEFORE BEGINNING THE DECK CLOSURE POUR PLACEMENT.
6. PRIOR TO PLACING THE END DIAPHRAGMS PLACEMENT AND FOR 72 HOURS FOLLOWING ITS COMPLETION, NO REINFORCING BAR WITHIN THE DECK CLOSURE POUR PLACEMENT SHALL BE WIRED.

**DECK CLOSURE POUR PLACEMENT NOTES (CONTINUED)**

7. THE TEMPORARY FASCIAS OF THE PRESTRESSED CONCRETE BEAMS SHALL BE THOROUGHLY WET FOR 12 HOURS IMMEDIATELY PRIOR TO PROCEEDING WITH THE DECK CLOSURE POUR PLACEMENT. THE CONTRACTOR SHALL REMOVE ALL STANDING WATER WITH OIL-FREE COMPRESSED AIR AND SHALL PROTECT THE FASCIA SURFACES FROM DRYING, SO THE EXISTING CONCRETE REMAINS IN A CLEAN, SATURATED SURFACE DRY CONDITION UNTIL PLACEMENT OF THE NEW CONCRETE.

**WATERPROOFING MEMBRANE NOTES**

1. THE BITUMINOUS OVERLAY SHALL BE PLACED ON THE STRUCTURAL SLAB PREFERABLY WITHIN 24 HOURS BUT NOT LATER THAN SEVEN (7) DAYS AFTER THE PLACEMENT OF THE MEMBRANE WATERPROOFING SYSTEM.
2. FOR THE BITUTHENE AND PROTECTO-WRAP PREFORMED SHEET MEMBRANE SYSTEMS, THE TEMPERATURE OF THE FIRST COURSE OF BITUMINOUS PAVING MATERIAL, AT THE TIME OF PLACEMENT, SHALL BE NOT LESS THAN 135°C (275°F) NOR GREATER THAN 148°C (300°F). FOR THE ROYSTON PREFORMED SHEET MEMBRANE SYSTEM, THE TEMPERATURE OF THE FIRST COURSE OF BITUMINOUS PAVING MATERIAL, AT THE TIME OF PLACEMENT, SHALL BE NOT LESS THAN 143°C (290°F) NOR GREATER THAN 162°C (325°F).
3. ON GRADES, BITUMINOUS PAVING EQUIPMENT SHALL BE OPERATED IN THE "DOWNHILL" DIRECTION TO MINIMIZE DAMAGE TO THE MEMBRANE.
4. ONLY THAT EQUIPMENT NECESSARY FOR TRANSPORTING, PLACING, AND COMPACTING THE OVERLAY SHALL BE ALLOWED ON THE COMPLETED MEMBRANE SYSTEM. BITUMINOUS PAVERS SHALL BE RUBBER-TIRED. VEHICLES TRANSPORTING THE OVERLAY MATERIAL SHALL BE RUBBER-TIRED AND OPERATED AT SLOW SPEEDS (NOT TO EXCEED 8 KILOMETERS PER HOUR OR 5 MPH), AND ALL VEHICLES SHALL AVOID MAKING SHARP TURNS, SUDDEN STOPS AND STARTS, OR OTHER MOVEMENTS ON THE MEMBRANE THAT MAY CAUSE BREAKS, LIFTING, OR OTHER DAMAGE. IF VEHICLE TIRES CAUSE PICK-UP OF THE MEMBRANE, SMALL QUANTITIES OF TALC, CEMENT, OR POWDERED LIMESTONE MAY BE USED TO DUST THE TIRES.
5. ANY DAMAGE TO THE MEMBRANE WATERPROOFING SYSTEM DURING THE OVERLAY OPERATION SHALL BE REPAIRED IMMEDIATELY AND PRIOR TO THE PLACEMENT OF THE OVERLAY. A QUANTITY OF REPAIR MATERIAL SHALL BE KEPT ON HAND FOR ANY SUCH REPAIRS. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY AREAS THAT REQUIRE REPAIRS.
6. BLISTERS THAT MAY ARISE DURING THE OVERLAY OPERATION SHALL BE VENTED TO INSURE ADHESION OF THE MEMBRANE SYSTEM AND OVERLAY TO THE DECK. BLISTERED AREAS WILL BE MOST NOTICEABLE DURING THE ROLLING OPERATION. VENTING SHALL BE DONE BY INSERTING AN ICE PICK OR OTHER SUITABLE INSTRUMENT INTO THE AFFECTED AREA. THESE VENT HOLES NEED NOT BE REPAIRED.



RIGHT OF WAY ACQUISITION TABLE					
MAP ID	POINT	HOLLOW ROAD		OWNER	
		STATION	OFFSET (m)		
M1P1	1	1+135.58	11.17 L	CHRISTOPHER M. SCOTT PATRICIA ELLEN SCOTT	
	2	1+140.63	14.88 L		
	3	1+143.97	9.37 L		
	4	1+137.34	25.66 L		
M1P2	1	1+177.33	26.60 L		
	2	1+179.16	26.79 L		
	3	1+179.28	11.87 L		
M1P3	1	1+182.38	10.91 L		NOTE: MAP 1 IS CURRENTLY UNAVAILABLE. THE ANTICIPATED AVAILABILITY DATE IS JANUARY 6, 2017. DO NOT ENTER UPON PROPERTY UNTIL WRITTEN APPROVAL IS RECEIVED FROM DUTCHESS COUNTY.
	2	1+183.41	16.01 L		
	3	1+188.01	14.95 L		
	4	1+187.93	14.27 L		
M1P4	1	1+114.16	6.32 R		
	2	1+124.16	3.76 R		
	3	1+136.69	3.31 R		
	4	1+162.94	3.21 R		
	5	1+180.08	7.00 R		
	6	1+174.87	13.14 R		
M1P4	7	1+160.39	11.00 R		
	8	1+140.39	12.00 R		
	9	1+124.28	13.16 R		
	10	1+117.92	14.44 R		

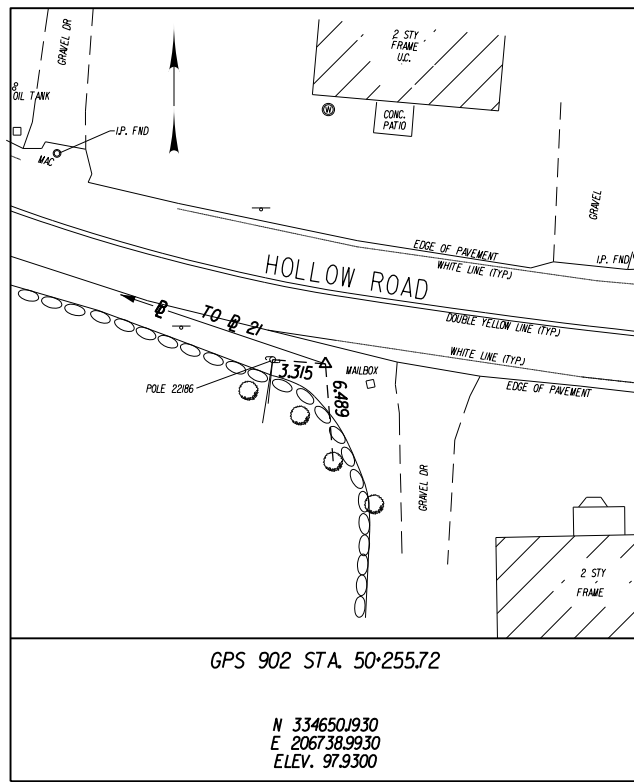
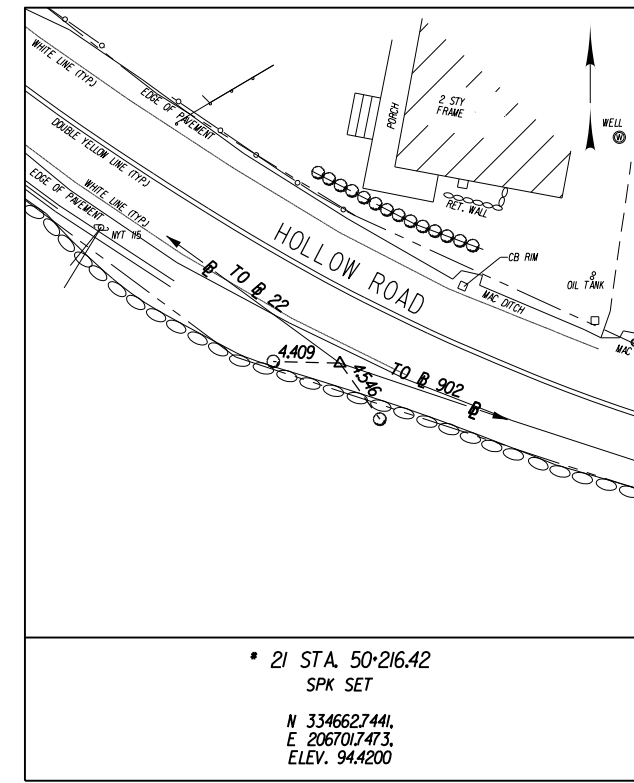
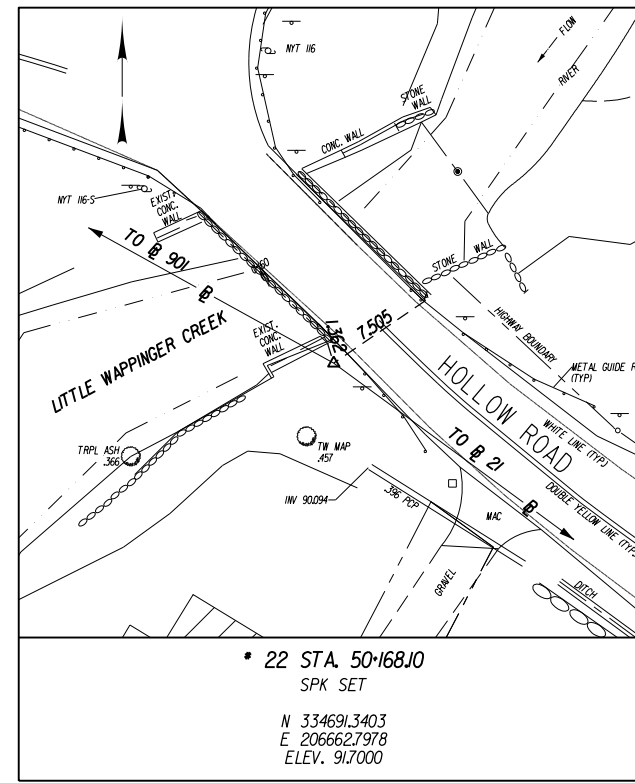
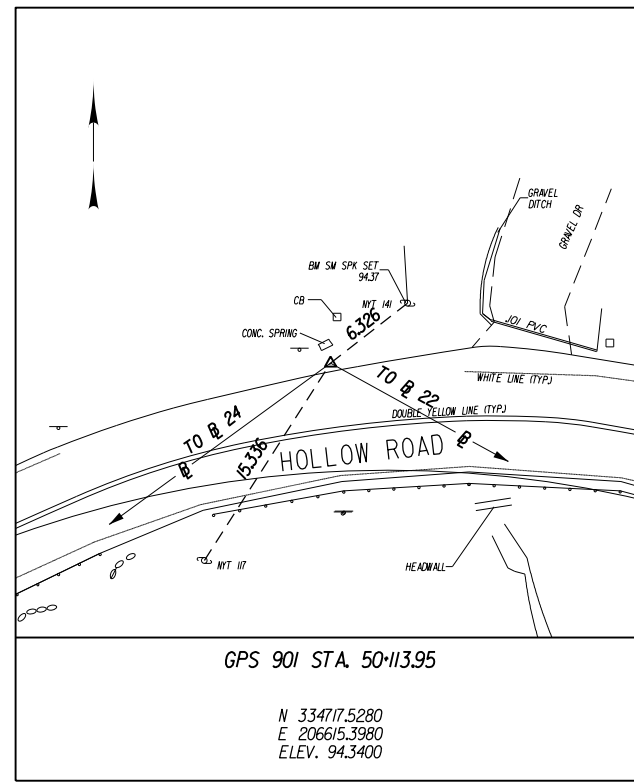
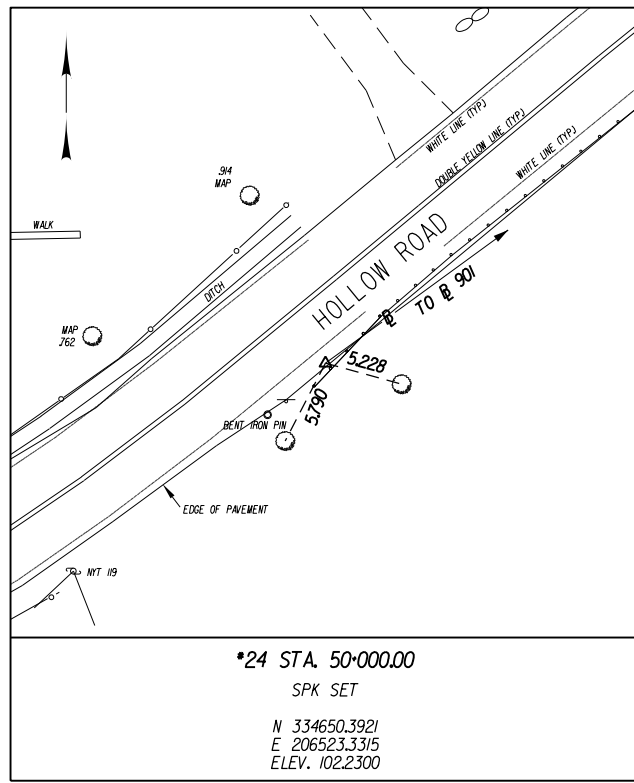
RIGHT OF WAY ACQUISITION TABLE				
MAP ID	POINT	HOLLOW ROAD		OWNER
		STATION	OFFSET (m)	
M2P5	1	1+188.01	14.95 L	PATRICK RUSSEL-WALSH F/K/A/ PATRICK WALSH-VERNETTI
	2	1+196.08	13.97 L	
	3	1+197.42	13.21 L	
	4	1+195.69	8.21 L	
	5	1+185.56	10.10 L	
	6	1+187.93	14.27 L	
M3P6	1	1+194.44	5.72 L	MICHAEL N. KAPLAN CHRISTINA H. LEE
	2	1+197.42	13.21 L	
	3	1+210.39	6.81 L	
	4	1+215.83	7.07 L	
	5	1+215.86	6.36 L	
	6	1+226.23	6.32 L	
	7	1+226.17	4.89 L	
	8	1+220.44	4.76 L	
M4P7	1	1+114.16	6.32 R	MARGARET G. KING
	2	1+117.92	14.44 R	
	3	1+109.59	15.87 R	
	4	1+108.93	10.84 R	
	5	1+104.41	9.50 R	
M5P8	1	1+181.98	7.18 R	JAMES E. MONTRUSS DONNA A. CALKINS
	2	1+203.30	6.33 R	
	3	1+203.69	6.33 R	
	4	1+186.86	13.08 R	
	5	1+180.00	13.19 R	

RIGHT OF WAY ACQUISITION TABLE				
MAP ID	POINT	HOLLOW ROAD		OWNER
		STATION	OFFSET (m)	
M5P9	1	1+203.30	6.32 R	JAMES E. MONTRUSS DONNA A. CALKINS
	2	1+208.18	6.00 R	
	3	1+208.39	7.10 R	
	4	1+205.55	7.43 R	
	5	1+203.69	8.06 R	
M7P11	1	1+179.28	11.87 L	CHRISTOPHER M. SCOTT PATRICIA ELLEN SCOTT
	2	1+179.19	22.37 L	
	3	1+186.93	22.86 L	
	4	1+187.59	15.03 L	
	5	1+183.41	16.01 L	
	6	1+179.28	11.87 L	
M8P12	1	1+198.01	14.08 L	MICHAEL N. KAPLAN CHRISTINA H. LEE
	2	1+204.82	10.91 L	
	3	1+204.31	10.02 L	
	4	1+197.47	13.18 L	
M9P13	1	1+188.90	12.68 R	JAMES E. MONTRUSS DONNA A. CALKINS
	2	1+196.86	10.60 R	
	3	1+197.27	11.54 R	
	4	1+189.20	13.65 R	

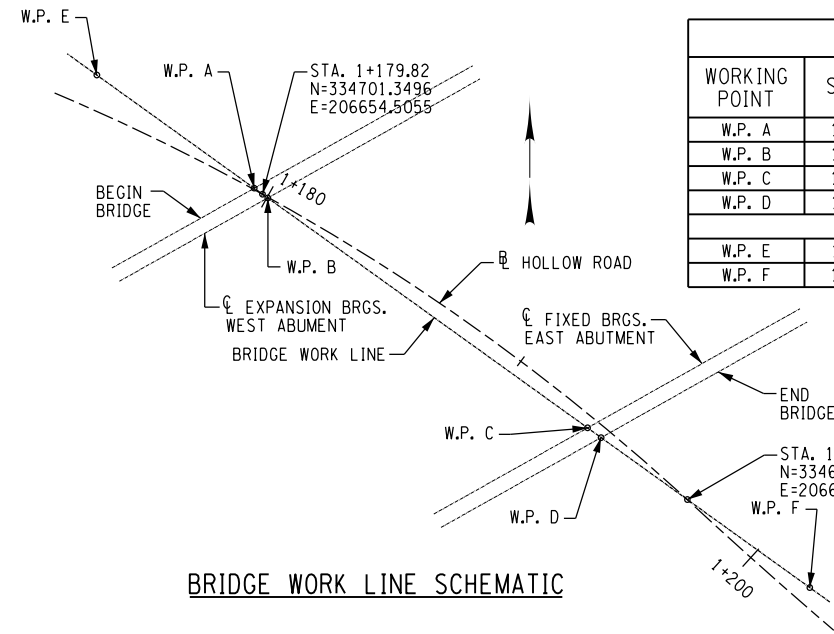
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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b> PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19 BIN 3342820 DETAILS: <b>GENERAL NOTES AND ESTIMATE OF QUANTITIES</b> 3 OF 3 SCALE: NOT TO SCALE DRAWING NO: <b>GEN-3</b> SHEET 6		
	DATE: MAY 2016	DES. TJA CCF	DR. AL CCF	CK. GMZ					



HORIZONTAL CONTROL TABLE				
H.C.L. POINT	H.C.L. STATION	COORDINATES		DESCRIPTION
		NORTH	EAST	
<b>HOLLOW ROAD</b>				
P.R.C.	1+041.64	334663.0157	206532.1166	BEGIN ALIGNMENT
P.C.C.	1+100.00	334698.1569	206578.6717	P.C.C. CURVE 1
P.R.C.	1+197.56	334690.9772	206668.8472	P.R.C. CURVE 2
P.C.C.	1+239.37	334667.1627	206703.0425	P.C.C. CURVE 3
P.T.	1+286.95	334653.5025	206748.3643	P.T. CURVE 4
P.O.E.	1+323.26	334649.2813	206784.4285	P.O.E. END ALIGNMENT
<b>SCHOOLHOUSE ROAD</b>				
P.O.B.	2+000.00	334703.9351	206649.3538	BEGIN ALIGNMENT
P.I.	2+025.60	334727.3241	206659.7667	P.I.
P.O.E.	2+047.79	334747.0375	206669.9385	P.O.E. END ALIGNMENT



HOLLOW ROAD				
WORKING POINT	STATION	OFFSET	COORDINATES	
			NORTH	EAST
W.P. A	1+179.49	0.040m	334701.5450	206654.2337
W.P. B	1+180.03	0.025m	334701.2230	206654.6817
W.P. C	1+193.10	0.368m	334693.6230	206665.2532
W.P. D	1+193.65	0.331m	334693.3010	206665.7012
APPROACH SLAB				
W.P. E	1+173.21	1.102m	334705.2873	206649.0282
W.P. F	1+202.12	0.550m	334688.3411	206672.6004

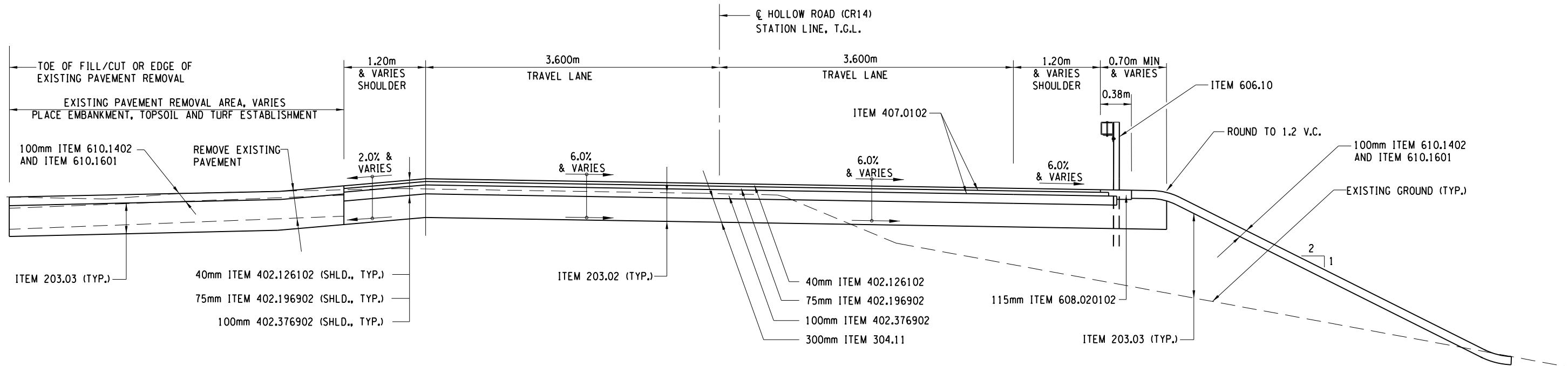
- NOTES:**
- HORIZONTAL DATUM IS NAD83/CORS96, NYSPCS, EAST ZONE.
  - VERTICAL DATUM IS NGVD 1929.

CURVE 1	CURVE 2	CURVE 3	CURVE 4
PRC = STA. 1+041.638	PCC = STA. 1+100.000	PRC = STA. 1+197.561	PCC = STA. 1+239.367
PCC = STA. 1+100.000	PRC = STA. 1+197.561	PCC = STA. 1+239.367	PT = STA. 1+286.949
$\Delta = 6^{\circ}37'28''$	$\Delta = 76^{\circ}34'23''$	$\Delta = 15^{\circ}58'07''$	$\Delta = 20^{\circ}11'39''$
R = 504.768	R = 73.000	R = 150.000	R = 135.000
L = 58.362	L = 97.561	L = 41.806	L = 47.582
T = 29.213	T = 57.624	T = 21.039	T = 24.040
$e_{max} = N/A$	$e_{max} = 6\%$	$e_{max} = N/A$	$e_{max} = N/A$

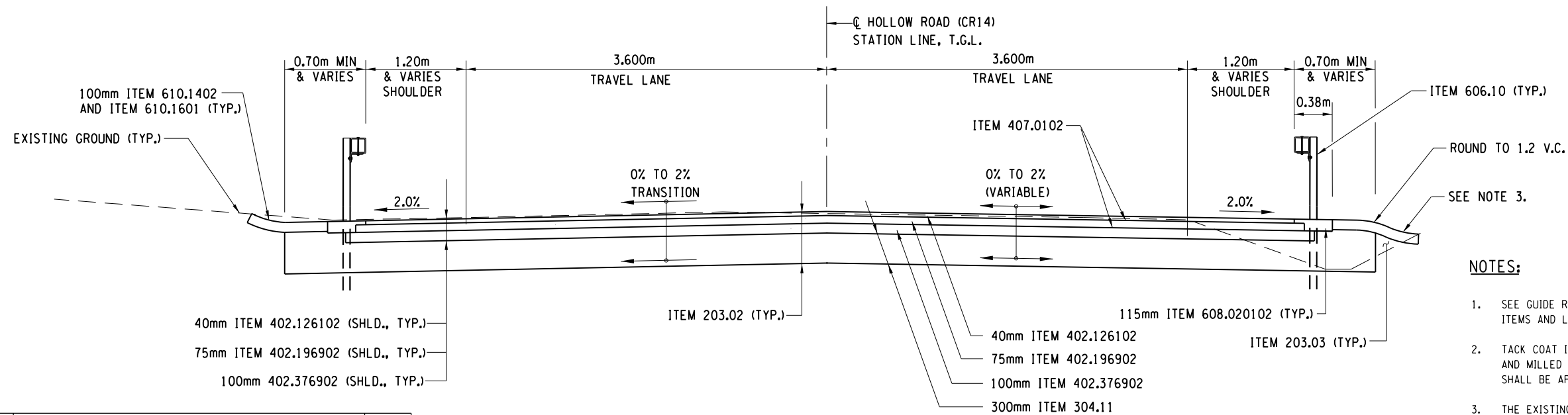
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DATE PLOTTED: 8/18/2016  
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	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
							DATE: MAY 2016 DES. TJA CCF DR. AL CCF CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19 BIN 3342820
<b>HORIZONTAL AND VERTICAL CONTROLS</b>						SCALE: NOT TO SCALE		



**TYPICAL HOLLOW ROAD APPROACH SECTION**  
 STA 1+100 TO STA 1+173.29 (WEST APPROACH SLAB)  
 (NOT TO SCALE)



**NOTES:**

- SEE GUIDE RAIL TABLE ON DWG. NO. MT-1 FOR ALL GUIDE RAIL ITEMS AND LOCATIONS.
- TACK COAT ITEM 407.0102 SHALL BE APPLIED TO ALL SAWCUT AND MILLED SURFACES PRIOR TO FINAL OPERATIONS. TACK COAT SHALL BE APPLIED BETWEEN ALL PERMANENT PAVEMENT COURSES.
- THE EXISTING DITCH BETWEEN STA 1+210 AND STA 1+230, 5m RT OFFSET WILL BE PARTIALLY FILLED WITH EMBANKMENT MATERIAL. THE END OF THE EMBANKMENT SLOPE SHALL FORM A SWALE TO THE FULLEST EXTENT POSSIBLE WITHIN THE RIGHT-OF-WAY AT THE FACE OF THE EXISTING STONE WALL.
- FOR SECTION AT APPROACH SLABS, SEE DWG. NOS. ST-2.

**TYPICAL HOLLOW ROAD APPROACH SECTION**  
 STA 1+202.12 (EAST APPROACH SLAB) TO STA 1+230  
 (NOT TO SCALE)

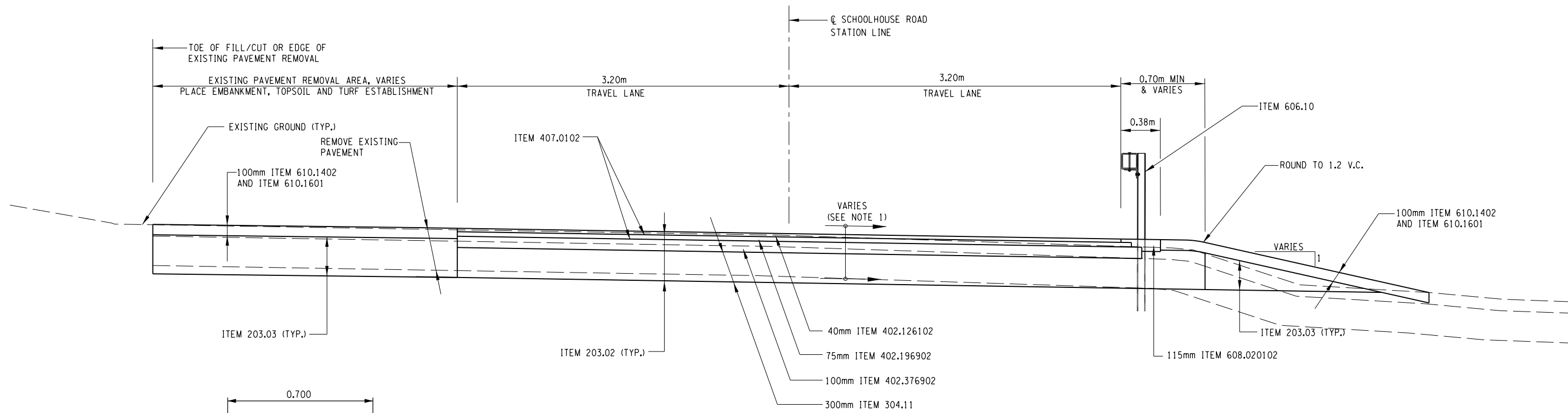
ITEM NO.	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM
203.03	EMBANKMENT IN PLACE	CM
304.11	SUBBASE COURSE, TYPE 1	CM
402.126102	12.5mm F1 TOP COURSE HMA, 60 SERIES COMPACTION	MT
402.196902	19 mm F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT
402.376902	37.5 mm F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT
407.0102	DILUTED TACK COAT	L
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SM
568.70	TRANSITION BRIDGE RAILING	M
606.10	BOX BEAM GUIDE RAILING	M
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	MT
610.1402	TOPSOIL - ROADSIDE	CM
610.1601	TURF ESTABLISHMENT - ROADSIDE	SQM
627.5014 08	CUTTING PAVEMENT	SQM

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

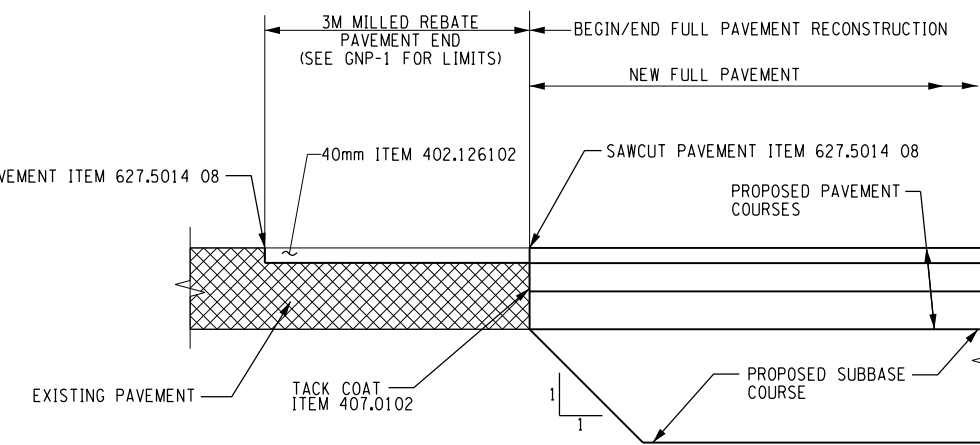
DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridges\CADD\2517 HW TYP SECT.SHT

GINA M. ZAMISKIE 	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
	DES. TJA CCF	DR. AL CCF	CK. GMZ	DATE: MAY 2016		PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820	
					DETAILS: TYPICAL ROADWAY SECTIONS 1 OF 2	SCALE: NOT TO SCALE	DRAWING NO: TS-1	
					SHEET 8			

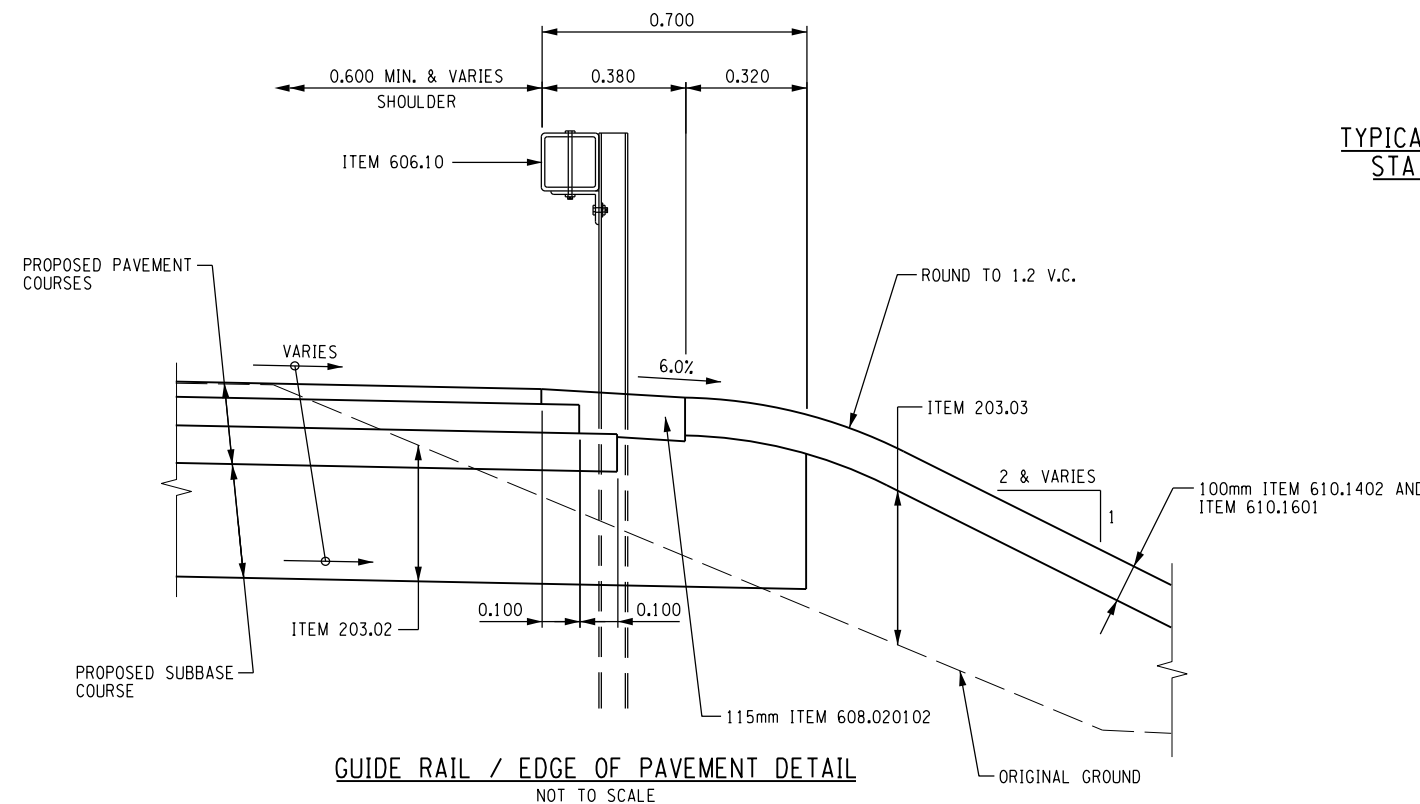




TYPICAL SCHOOLHOUSE ROAD SECTION  
STA 2+004.80 TO STA 2+023.42  
NOT TO SCALE



PAVEMENT TERMINATION DETAIL  
NOT TO SCALE



GUIDE RAIL / EDGE OF PAVEMENT DETAIL  
NOT TO SCALE

NOTES:

- FULL PAVEMENT RECONSTRUCTION IS PROPOSED AT SCHOOLHOUSE ROAD AS SHOWN TO MODIFY THE INTERSECTION RETURN AND FOR EXCAVATION TO CONSTRUCT THE WEST ABUTMENT. IT IS THE INTENT THAT FINAL PAVEMENT GRADES MATCH EXISTING GRADES AND ROADWAY CROSS SLOPE FOR THIS SEGMENT OF SCHOOLHOUSE ROAD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT EXISTING PAVEMENT GRADES PRIOR TO EXCAVATION AND PAVEMENT REMOVAL OPERATIONS. COST FOR GRADE VERIFICATION TO BE INCLUDED IN SURVEY OPERATIONS, ITEM 625.01.
- IN AREAS OF RADWAY REALIGNMENT WHERE EXISTING PAVEMENT IS TO BE REMOVED, THE AREAS SHALL BE FULLY ESTABLISHED WITH EMBANKMENT IN PLACE, TURF ESTABLISHMENT AND TOPSOIL-ROADSIDE.
- TACK COAT ITEM 407.0102 SHALL BE APPLIED TO ALL SAWCUT AND MILLED SURFACES PRIOR TO FINAL OPERATIONS. TACK COAT SHALL BE APPLIED BETWEEN ALL PERMANENT PAVEMENT COURSES.
- SEE GUIDE RAIL TABLE ON DWG. NO. MT-1 FOR ALL GUIDE RAIL ITEMS AND LOCATIONS.

ITEM NO.	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM
203.03	EMBANKMENT IN PLACE	CM
304.11	SUBBASE COURSE, TYPE 1	CM
402.126102	12.5mm F1 TOP COURSE HMA, 60 SERIES COMPACTION	MT
402.196902	19 mm F9 BINDER COURSE HMA, 60 SERIES COMPACTION	MT
402.376902	37.5 mm F9 BASE COURSE HMA, 60 SERIES COMPACTION	MT
407.0102	DILUTED TACK COAT	L
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SM
568.70	TRANSITION BRIDGE RAILING	M
606.10	BOX BEAM GUIDE RAILING	M
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	MT
610.1402	TOPSOIL - ROADSIDE	CM
610.1601	TURF ESTABLISHMENT - ROADSIDE	SQM
627.5014 08	CUTTING PAVEMENT	SQM

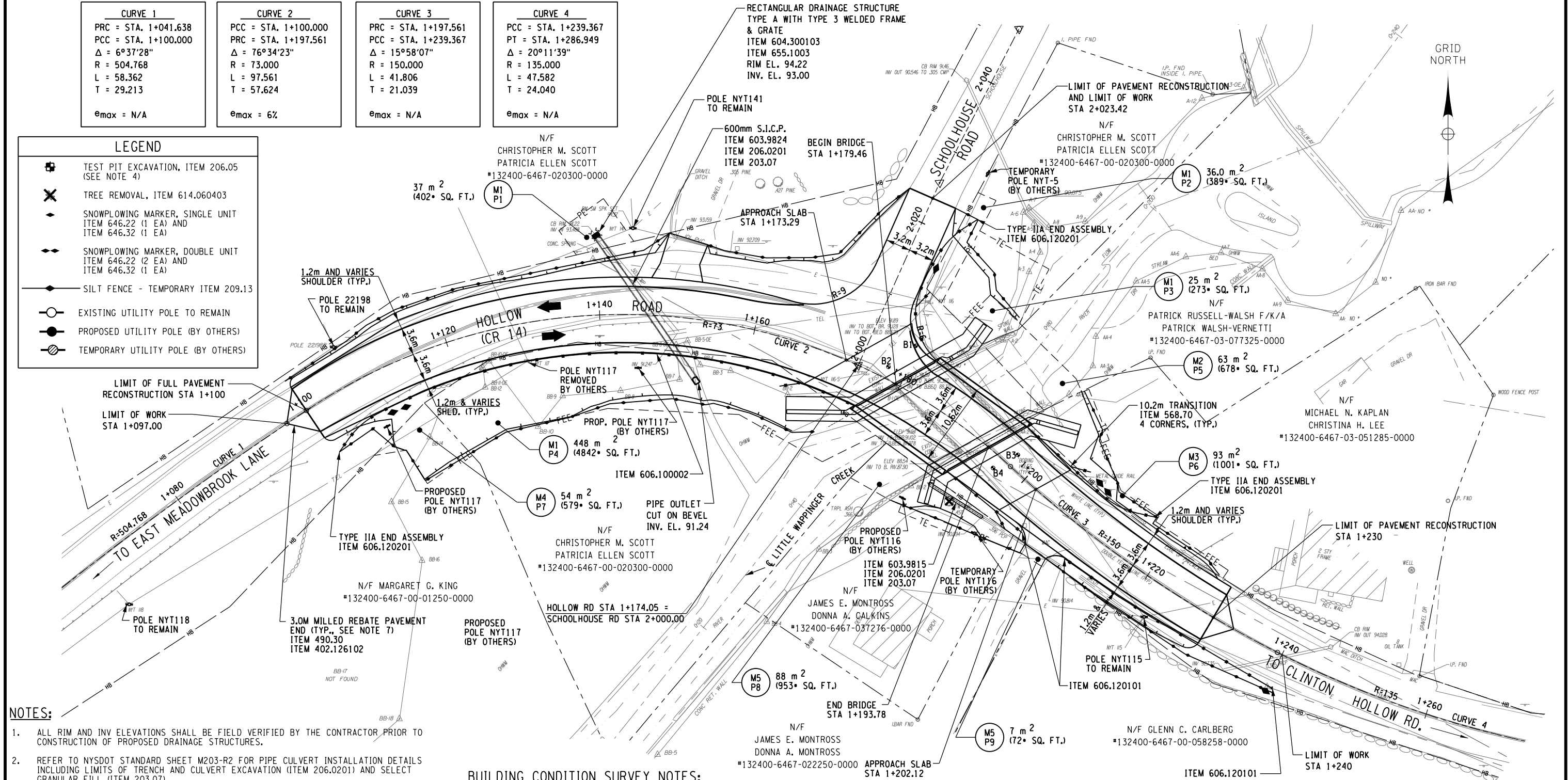
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridges\CADD\2517 HWY TYPICAL (2 OF 2).dgn

GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE			<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
						DATE: MAY 2016	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820	
DES.	DR.	CK.					DETAILS: TYPICAL ROADWAY SECTIONS (2 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: TS-2
									SHEET 9

CURVE 1	CURVE 2	CURVE 3	CURVE 4
PRC = STA. 1+041.638	PCC = STA. 1+100.000	PRC = STA. 1+197.561	PCC = STA. 1+239.367
PCC = STA. 1+100.000	PCC = STA. 1+197.561	PCC = STA. 1+239.367	PCC = STA. 1+286.949
$\Delta = 6^{\circ}37'28''$	$\Delta = 76^{\circ}34'23''$	$\Delta = 15^{\circ}58'07''$	$\Delta = 20^{\circ}11'39''$
R = 504.768	R = 73.000	R = 150.000	R = 135.000
L = 58.362	L = 97.561	L = 41.806	L = 47.582
T = 29.213	T = 57.624	T = 21.039	T = 24.040
$e_{max} = N/A$	$e_{max} = 6\%$	$e_{max} = N/A$	$e_{max} = N/A$

LEGEND	
	TEST PIT EXCAVATION, ITEM 206.05 (SEE NOTE 4)
	TREE REMOVAL, ITEM 614.060403
	SNOWPLOWING MARKER, SINGLE UNIT ITEM 646.22 (1 EA) AND ITEM 646.32 (1 EA)
	SNOWPLOWING MARKER, DOUBLE UNIT ITEM 646.22 (2 EA) AND ITEM 646.32 (1 EA)
	SILT FENCE - TEMPORARY ITEM 209.13
	EXISTING UTILITY POLE TO REMAIN
	PROPOSED UTILITY POLE (BY OTHERS)
	TEMPORARY UTILITY POLE (BY OTHERS)



- NOTES:**
- ALL RIM AND INV ELEVATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF PROPOSED DRAINAGE STRUCTURES.
  - REFER TO NYSDOT STANDARD SHEET M203-R2 FOR PIPE CULVERT INSTALLATION DETAILS INCLUDING LIMITS OF TRENCH AND CULVERT EXCAVATION (ITEM 206.0201) AND SELECT GRANULAR FILL (ITEM 203.07).
  - EXISTING ROADWAY SIGNS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RELOCATED AS NEEDED FOR THE NEW ROADWAY ALIGNMENT. REFER TO DWG. NO. MT-1 FOR A TABLE OF SIGNS AND THE EXISTING LOCATION BY STATION. THE ENGINEER WILL PROVIDE FINAL LOCATION FOR RELOCATED SIGNS.
  - ITEM 206.05 TEST PIT EXCAVATION IS INCLUDED IN THE CONTRACT FOR USE IN VERIFYING THE VARIOUS DRAINAGE PIPES/FACILITIES. TEST PIT LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS FOR TEST PITS TOGETHER WITH THE ENGINEER.
  - THE PROPOSED EMBANKMENT AREA BETWEEN STA 1+120 TO 1+160 (RT OFFSET) THAT IS TO BE CLEARED CONTAINS SEVERAL LARGE TREES (OVER 450mm IN DIAMETER) THAT ARE NOT SHOWN IN THE GENERAL PLAN. ALL TREES IN THIS AREA WITHIN THE LIMITS OF NEW ROADWAY EMBANKMENT ARE TO BE REMOVED WITH STUMPS CUT TO BELOW GRADE WITHIN THE RESTRICTED SEASONAL PERIOD OF OCTOBER 31ST AND MARCH 30TH. PAYMENT FOR TREE REMOVALS IN THIS AREA SHALL BE INCLUDED IN THE COST FOR ITEM 201.06 CLEARING AND GRUBBING. NO SEPARATE PAYMENT WILL BE MADE FOR INDIVIDUAL TREE REMOVALS.
  - PRIOR TO CONSTRUCTION, UTILITY POLES AND OVERHEAD UTILITY LINES WILL BE RELOCATED BY OTHERS. THE APPROXIMATE LOCATION OF EXISTING POLES TO BE REMOVED, NEW PROPOSED POLES, BOTH PERMANENT AND TEMPORARY ARE SHOWN.
  - CONTRACTOR SHALL REBATE THE PAVEMENT AS SHOWN ON THE PAVEMENT TERMINATION DETAIL, DWG. TS-2.

**BUILDING CONDITION SURVEY NOTES:**

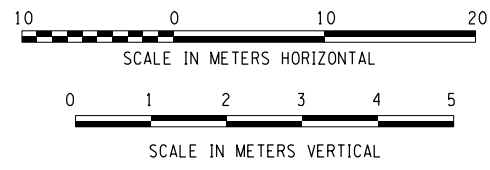
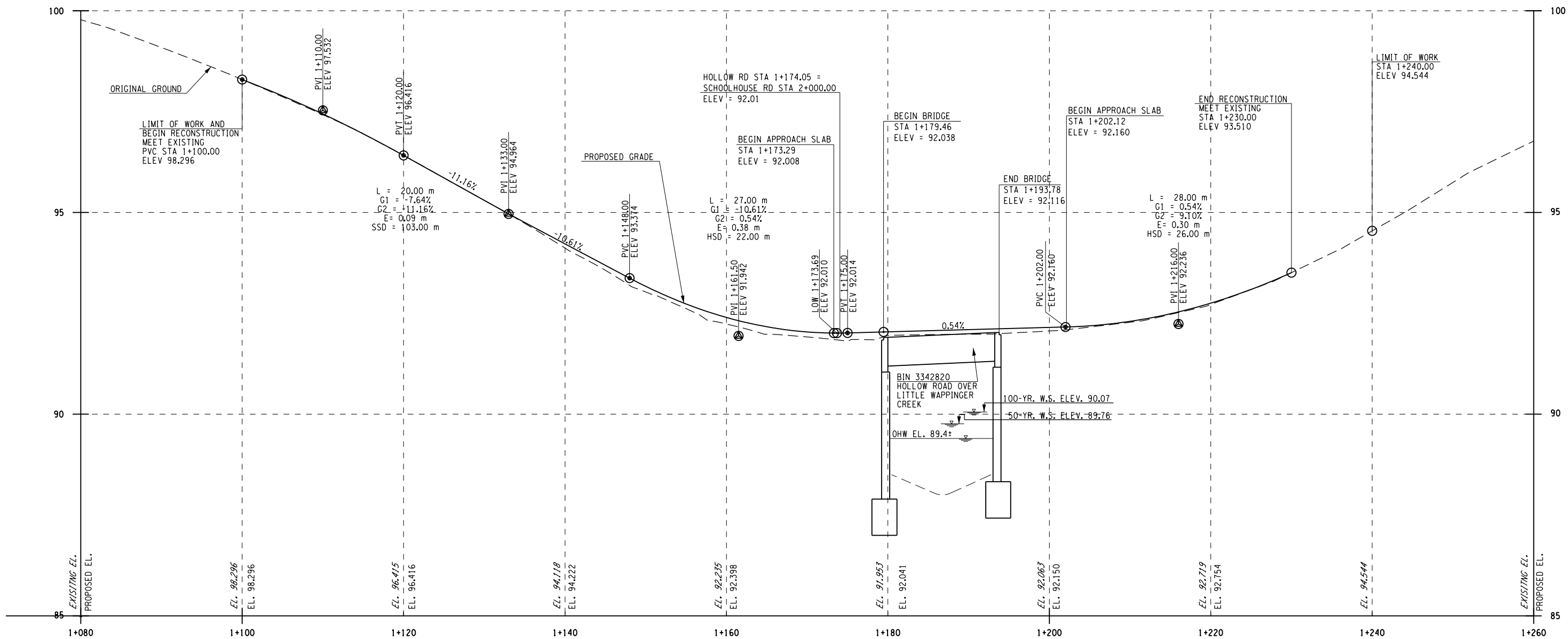
- THE CONTRACTOR SHALL PERFORM BOTH A PRE AND POST CONSTRUCTION BUILDING SURVEY AT (1) 863 HOLLOW ROAD; (2) 860 HOLLOW ROAD; AND (3) 851 HOLLOW ROAD IN THE TOWN OF CLINTON, NY ADJACENT TO THE SITE. THIS WORK SHALL CONSIST OF PERFORMING A BUILDING SURVEY AND PREPARING PERMANENT RECORDS PRIOR TO COMMENCEMENT OF WORK, AFTER COMPLETION OF WORK AND AT TIMES DURING CONSTRUCTION A.O.B.E. THE CONTRACTOR SHALL PROVIDE GENERAL PHOTOGRAPHY AND VIDEO EQUIPMENT, ANALOG OR DIGITAL CAPABLE OF SUPERIMPOSING THE DATE AND TIME ON ALL IMAGES. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A FIRM CAPABLE OF FURNISHING A NYS LICENSED PROFESSIONAL ENGINEER TO CONDUCT THE CONDITION SURVEYS OF EXISTING BUILDINGS. SUBMIT AS PROOF TO THE ENGINEER, THE EXPERIENCE AND QUALIFICATIONS OF THE FIRM'S PERSONNEL CONDUCTING THE WORK. PROVIDE AS A MINIMUM (1) PHOTOGRAPHIC AND VIDEOTAPE DOCUMENTATION OF THE INTERIOR AND EXTERIOR CONDITION OF THE BUILDINGS; AND (2) EXTENT AND LOCATION OF EXISTING SIGNS OF BUILDING DISTRESS SUCH AS CRACKS, SPALLING, SIGNS OF SETTLEMENT, FLOODING, LEAKING, ETC. THE ENGINEER MAY ACCOMPANY THE CONTRACTOR ON EACH SURVEY FOR VERIFICATION OF THE DATA RECORD.
- PROVIDE 2-COPIES OF ALL DOCUMENTATION OF EACH BUILDING SURVEY TO THE ENGINEER. COORDINATION WITH THE OWNERS FOR SCHEDULING, ACCESS AND ENTRY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE BUILDING CONDITION SURVEY WORK WILL NOT BE MEASURED. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK. ALL COSTS ASSOCIATED WITH THE SURVEYS INCLUDING ALL LABOR, MATERIALS, LICENSED PERSONNEL AND EQUIPMENT NECESSARY TO SATISFACTORILY COMPLETE THE WORK WILL BE INCLUDED UNDER THE ITEM SURVEY OPERATIONS (ITEM 625.01) IN THE CONTRACT.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY DEPARTMENT OF PUBLIC WORKS</b>			
	DATE:	MAY 2016		PROJECT:			REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19		BIN 3342820	
	DES.	DR.	CK.	DETAILS:			SCALE:	1:250	DRAWING NO: <b>GNP-1</b>	
						GENERAL ROADWAY PLAN		SCALE:	1:250	DRAWING NO: <b>GNP-1</b>
								SHEET 10		

DATE PLOTTED: 8/18/2016 FILE NAME: G:\PROJ\2517\bridge\CADD\2517 GENERAL ROADWAY PLAN.SHT

DATE PLOTTED: 8/18/2016  
 FILE NAME: G:\PROJ\2517\bridge\CADD\2517 Profile.SHT

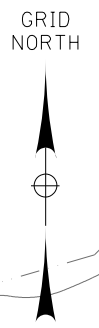
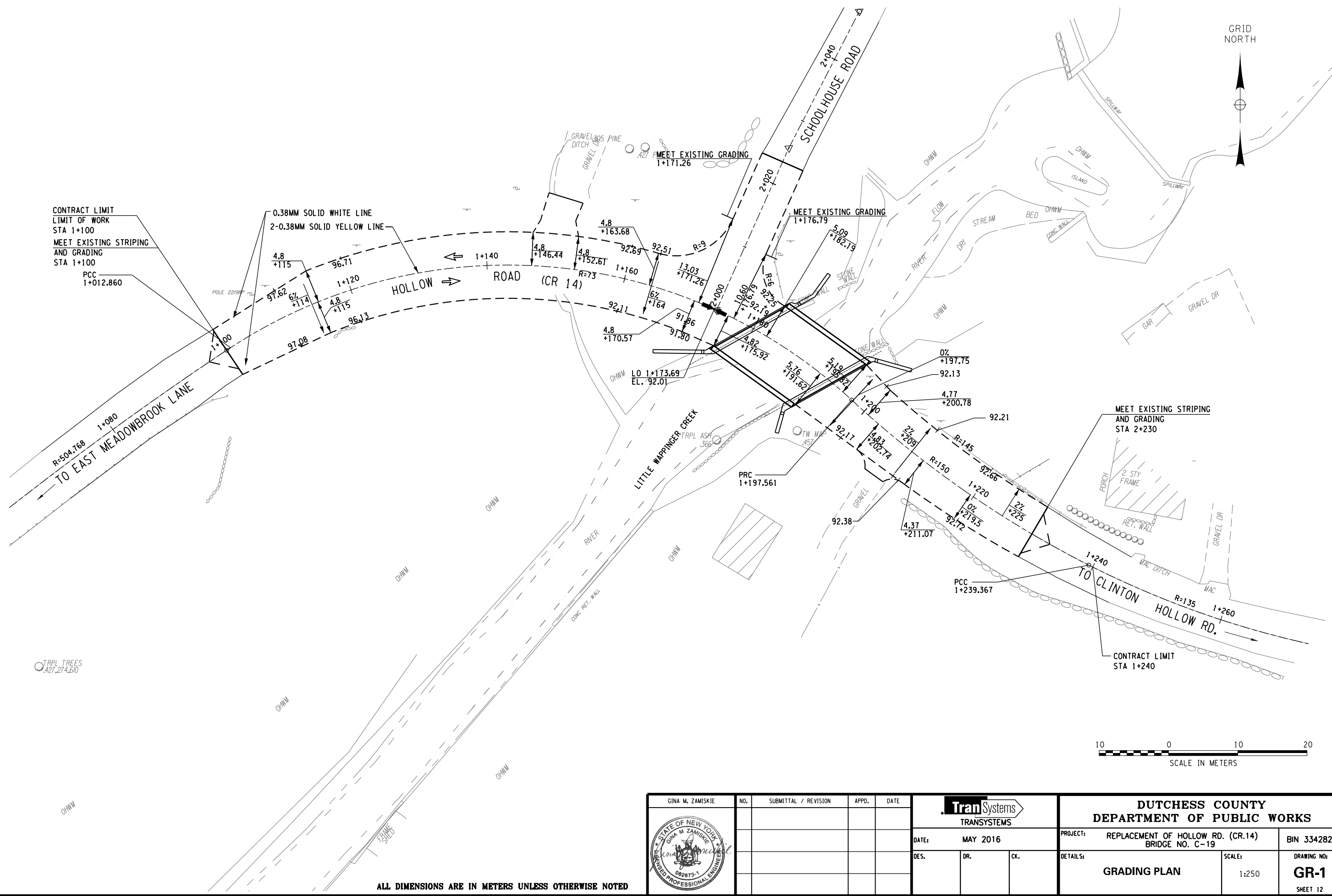


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	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. DR. CK.	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							<b>ROADWAY PROFILE</b>	SCALE: AS SHOWN	DRAWING NO: <b>PR-1</b> SHEET 11

DATE PLOTTED: 8/18/2016  
 FILE NAME: G:\PROJECTS\17\Bridges\CADD\2517 GRADING PLAN.SHT

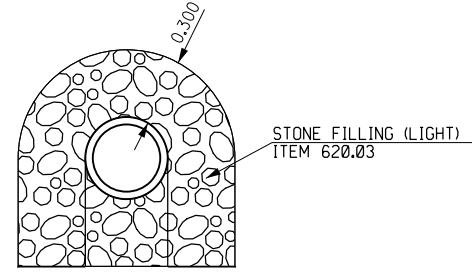
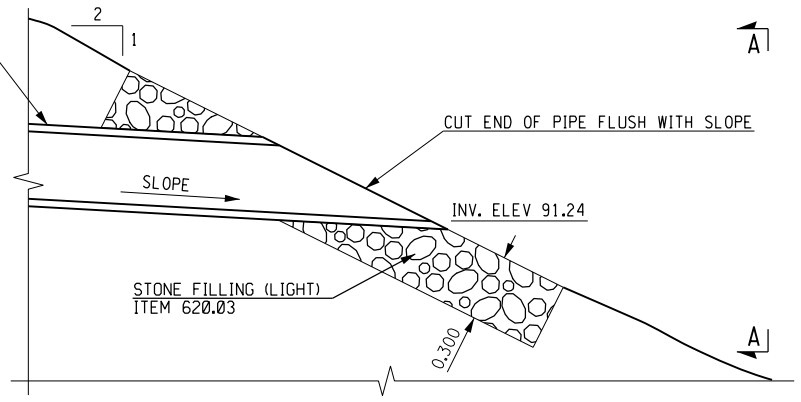
CONTRACT LIMIT  
 LIMIT OF WORK  
 STA 1+100  
 MEET EXISTING STRIPING  
 AND GRADING  
 STA 1+100  
 PCC  
 1+012.860



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

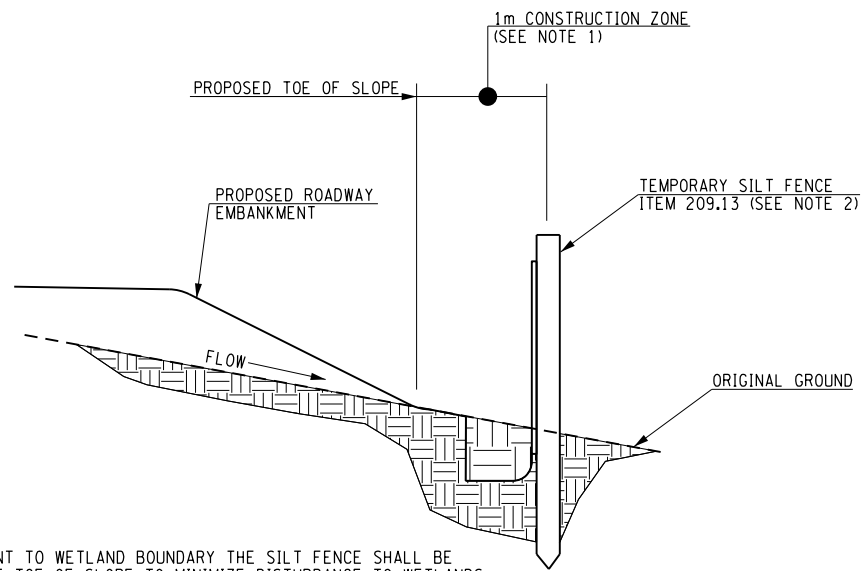
	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. DR. CK.	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							<b>GRADING PLAN</b>	SCALE: 1:250	DRAWING NO: <b>GR-1</b> SHEET 12

SMOOTH INTERIOR CORRUGATED POLYETHYLENE  
CULVERT AND STORM DRAIN 600 MM DIAMETER  
ITEM 603.9824



ELEVATION A-A

PIPE END TREATMENT DETAIL  
NOT TO SCALE



NOTES:

1. IN AREAS ADJACENT TO WETLAND BOUNDARY THE SILT FENCE SHALL BE INSTALLED AT THE TOE OF SLOPE TO MINIMIZE DISTURBANCE TO WETLANDS.
2. THIS SILT FENCE DETAIL IS PROVIDED FOR GENERAL LOCATION OF THE TEMPORARY MEASURE RELATIVE TO THE EMBANKMENT TOE. THE CONTRACTOR IS REQUIRED TO ADHERE TO THE INSTALLATION AND CONSTRUCTION DETAILS PROVIDED ON NYS DOT STD. SHEET M209-1R1 FOR TEMPORARY SILT FENCE.

TEMPORARY SILT FENCE DETAIL  
NOT TO SCALE

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 MISCELLANEOUS DETAILS 01.dwg

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. DR. CK.	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							DETAILS: MISCELLANEOUS ROADWAY DETAILS	SCALE: NOT TO SCALE	DRAWING NO: <b>MD-1</b> SHEET 13

BOX BEAM GUIDE RAILING - INSTALLATION

STATION	TO	STATION	OFFSET	RADIUS	LENGTH	PAY FACTOR	ITEM 606.10 (M)	ITEM 606.100002 (M)	ITEM 606.120101 (EA)	ITEM 606.120201 (EA)	ITEM 568.70 (M)	REMARKS
1+099.92	TO	1+107.41	RT	10.68 (1)	7.49	1.0				1		TYPE IIA END ASSEMBLY
1+107.41	TO	1+165.65	RT	68.12	58.24	1.0		58.24				
1+165.65	TO	1+175.86	RT	68.12 (2)	10.21	1.0					10.21	TRANSITION BRIDGE RAILING
2+004.70	TO	2+011.58	RT	6.0 (2)	10.21	1.0					10.21	TRANSITION BRIDGE RAILING
2+011.58	TO	2+015.22	RT	-	3.64	1.0	3.64					
2+015.22	TO	2+025.43	RT	10.68 (1)	7.49	1.0				1		TYPE IIA END ASSEMBLY
1+195.58	TO	1+206.03	LT	-	10.21	1.0					10.21	TRANSITION BRIDGE RAILING
1+206.03	TO	1+207.85	LT	-	1.82	1.0	1.82					
1+207.85	TO	1+215.34	LT	10.68 (1)	7.49	1.0				1		TYPE IIA END ASSEMBLY
1+191.55	TO	1+202.07	RT	-	10.21	1.0					10.21	TRANSITION BRIDGE RAILING
1+202.07	TO	1+204.27	RT	-	2.2	1.0			1			USE BOX BEAM END PIECE
1+210.50	TO	1+212.70	RT	-	2.2	1.0			1			USE BOX BEAM END PIECE
1+212.70	TO	1+240.00	RT	154.88	27.3	1.0		27.3				
1+240.00	TO	1+242.20	RT	-	2.2	1.0			1			USE BOX BEAM END PIECE

(1) PORTION OF TYPE IIA END ASSEMBLY REQUIRES SHOP CURVE (REFER TO NYSDOT STD. DRAWING M606-57).

(2) TRANSITION BRIDGE RAILING REQUIRES SHOP CURVE DUE TO ROADWAY ALIGNMENT AND ROW LIMITS. SHOP DRAWING SHALL INCLUDE DETAILING OF THE RADIUS AND WELD DETAIL CONNECTION TO ANCHOR PLATE

ITEM 209.13 - SILT FENCE

STATION TO STATION	OFFSET	LENGTH (M)
STA 1+100.00 TO STA 1+173.00	RT	54.0
STA 1+100.00 TO STA 1+148.24	LT	60.0
STA 1+152.61 TO STA 2+023.42	LT	36.0
STA 2+014.00 TO STA 2+023.42	RT	28.0
STA 1+188.31 TO STA 1+206.09	RT	26.0
STA 1+208.53 TO STA 1+240.00	RT	40.0
STA 1+197.79 TO STA 1+230.00	LT	36.0

TABLE OF SNOWPLOWING MARKERS

LOCATION	OFFSET	ITEM 646.22 (EA)	ITEM 646.32 (EA)
STA 1+100.00	RT	2	1
STA 1+240.00	RT	1	1
STA 1+208.65	LT	2	1
STA 2+023.42	RT	1	1

ITEM 647.31 - SIGNS TO BE RELOCATED

DESIGNATION (SEE NOTE 2)	EXISTING STATION LOCATION	QUANTITY	NO. OF POSTS AT EACH SIGN	TEXT/MESSAGE
R12-4	STA 1+174 RT STA 1+198 LT	2	2	TRUCK PERMIT RESTRICTION
R2-1	STA 1+140 RT	1	1	SPEED LIMIT
R1-1	STA 2+012 LT	1	1	STOP
W1-8	STA 1+115 LT STA 1+122 LT STA 1+138 LT	3	1	CHEVRON
W3-1	STA 1+218 RT	1	1	STOP AHEAD WARNING
OM3-L	AT BRIDGE CORNERS	2	1	NA
OM3-R	AT BRIDGE CORNERS	2	1	NA
M1-6 + M3-4	STA 1+140 LT	2	1	DUTCHESS CO. WEST CR 14
M1-6 + M2-1	STA 1+160 RT	2	1	DUTCHESS CO. JCT 18
D14-1	STA 1+196 RT STA 1+183 LT	2	1	WAPPINGER CREEK WATERSHED
NA	STA 1+215 LT	1	2	CLINTON
NA	STA 2+012 RT	1	1	SCHOOLHOUSE ROAD
MAILBOX	STA 1+150 LT	1	NA	NA
MAILBOX	STA 1+205 RT	1	NA	NA
	TOTAL SIGNS	22		

GUIDE RAIL REMOVAL TABLE

STATION TO STATION	OFFSET	ITEM 606.71 (M)	ITEM 606.73 (M)
STA 1+130 TO STA 1+180	RT	50.0	
STA 2+004 TO STA 2+017	RT		15.0
STA 1+193 TO STA 1+210	LT	4.5	
STA 1+191 TO STA 1+202	RT	10.0	



LIST OF GUIDE RAIL ITEMS

ITEM NUMBER	DESCRIPTION	UNITS
606.10	BOX BEAM GUIDE RAILING	M
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	M
606.120101	BOX BEAM END PIECE	EA
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE IIA	EA
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	M
607.73	REMOVING AND DIPOSING BOX BEAM RAILINGS	M

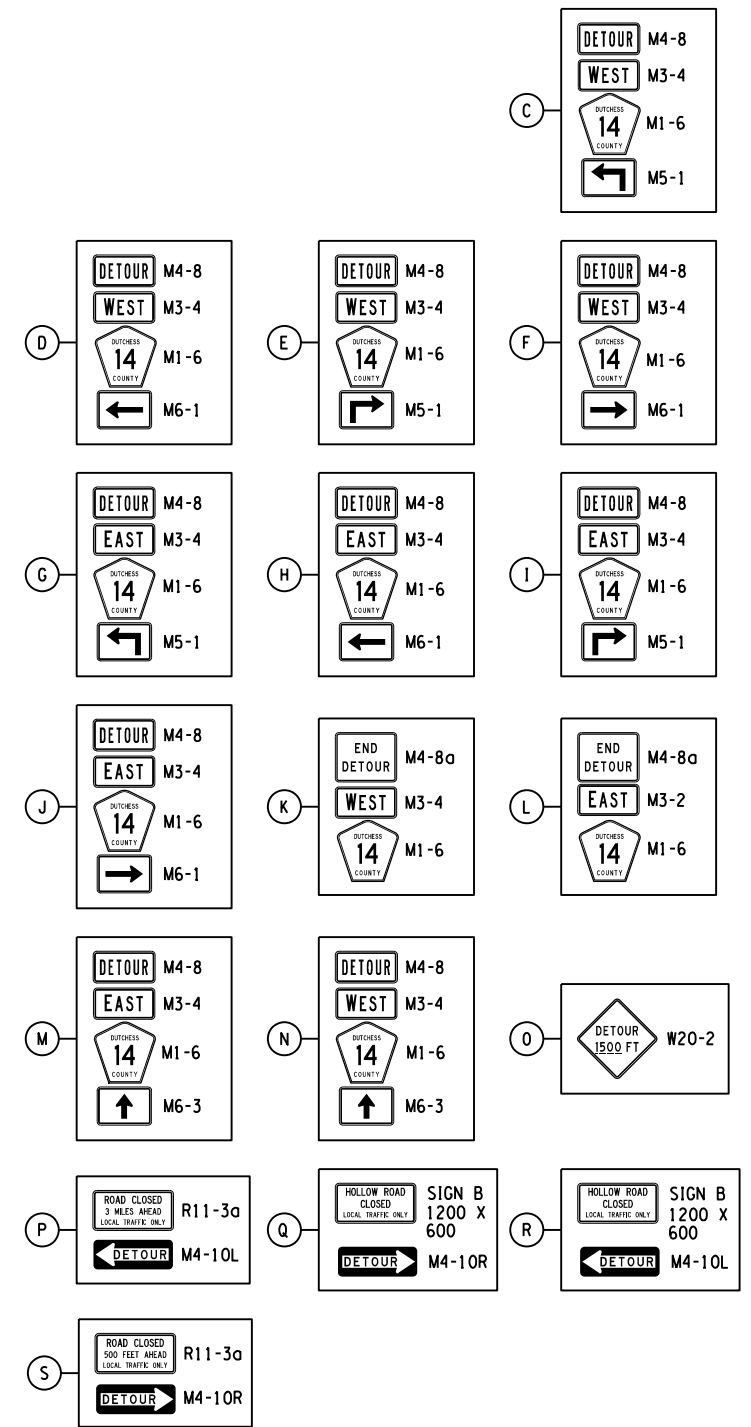
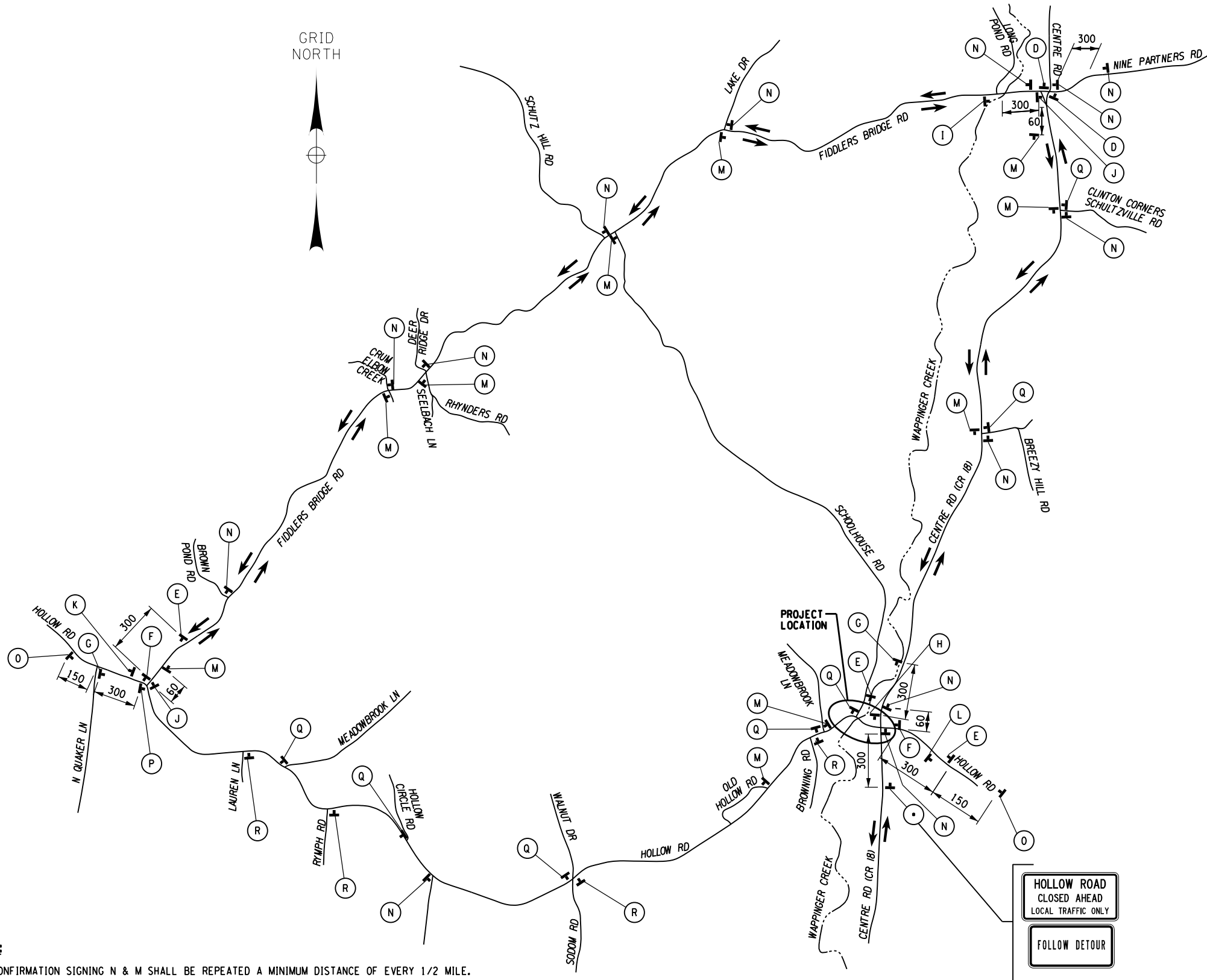
- SIGN LOCATIONS PROVIDED IN TABLE ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND STORE SIGNS. AT COMPLETION, THE CONTRACTOR SHALL REINSTALL SIGNS AT NEW LOCATIONS AS DIRECTED BY THE ENGINEER.
- THERE ARE TWO KNOWN MAILBOXES AT PRIVATE DRIVEWAYS THAT REQUIRE RELOCATION AND SHOWN IN THE SIGN TABLE ABOVE. THE CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE ALL RELOCATIONS WITH THE ENGINEER. THE WORK AND COST FOR MAILBOX RELOCATION IS INCLUDED UNDER ITEM 619.27. MAILBOX ACCESS SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION. REFER TO STD. SPECIFICATION 619-1.02(M) AND 619-1.23 FOR REQUIREMENTS.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridg\CADD\2517\MISCELLANEOUS TABLES.sht

	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
						DETAILS: MISCELLANEOUS TABLES	SCALE: NOT TO SCALE	DRAWING NO: <b>MT-1</b> SHEET 14

GRID NORTH



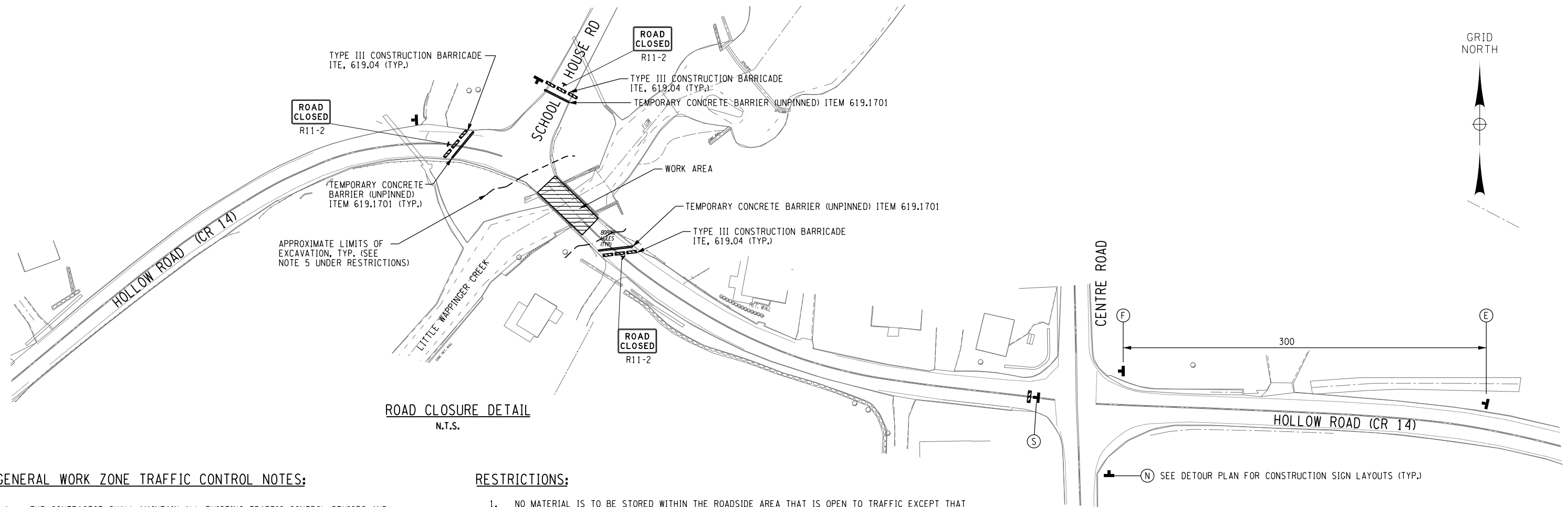
**NOTES:**

1. CONFIRMATION SIGNING N & M SHALL BE REPEATED A MINIMUM DISTANCE OF EVERY 1/2 MILE.
2. IF THE ROAD IS OPENED FOR SOME DISTANCE BEYOND THE INTERSECTION AND/OR THERE ARE SIGNIFICANT ORIGIN/DESTINATION POINTS BEYOND THE INTERSECTION, THE R11-3A ROAD CLOSED SIGN AND THE M4-10L/R SIGN ON TYPE III BARRICADES MAY BE LOCATED AT THE EDGE OF THE TRAVELED WAY.
3. SEE REQUIREMENTS IN THE STANDARD SPECIFICATION SECTION 619 FOR VEHICLE BARRIER SYSTEM REQUIREMENTS.
4. ANY EXISTING SIGN, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET ABOVE. BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO SIGNS CAUSED BY THE METHODS USED TO TEMPORARILY REMOVE, REPLACE, RELOCATE OR COVER SIGN PANELS OR SIGN TEXT, AT NO ADDITIONAL COST TO THE STATE. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THE CONTRACT DOCUMENTS.
5. SIGN GROUPING D, F, H, J, K, AND L SHALL ALWAYS BE POSTED A MAXIMUM OF 15M FROM AN INTERSECTION.
6. FOR LOCAL AND/OR COUNTY ROAD DETOUR SIGNAGE DETAILS REFER TO MUTCD WITH NEW YORK STATE SUPPLEMENT FOR GUIDANCE.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridg\CAD\2517 DETOUR PLAN.LSH

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY DEPARTMENT OF PUBLIC WORKS</b>				
							DATE: MAY 2016	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820		
						DES. TJA CCF	DR. AL CCF	CK. GMZ	DETAILS: <b>WORK ZONE TRAFFIC CONTROL DETOUR PLAN</b>	SCALE: NOT TO SCALE	DRAWING NO: <b>WZ-1</b> SHEET 15



**ROAD CLOSURE DETAIL**  
N.T.S.

**GENERAL WORK ZONE TRAFFIC CONTROL NOTES:**

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING TRAFFIC CONTROL DEVICES AND SCHEMES. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS AS SET FORTH IN THE MUTCD AND IN SECTION 619, WORK ZONE TRAFFIC CONTROL, OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION AS AMENDED, OR AS AMENDED BY THESE PLANS OR THESE NOTES, AND AS ORDERED BY THE ENGINEER (AOBE).
2. IF THE ENGINEER NOTIFIES THE CONTRACTOR OF ANY HAZARDOUS CONDITION OR PRACTICE, ALL OPERATIONS IN THAT AREA SHALL CEASE. IMMEDIATE REMEDIAL ACTION SHALL BE TAKEN TO THE SATISFACTION OF THE ENGINEER BEFORE WORK MAY BE RESUMED.
3. THE CONTRACTOR SHALL PROVIDE A FLAGGER AND APPROPRIATE SIGNING WHENEVER OPERATIONS INTERFERE WITH TRAFFIC, AOBE. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, DELIVERING OR REMOVING MATERIALS, LIFTING OPERATIONS, DIRECTING DRIVEWAY OR CROSS STREET TRAFFIC, AND ANY ACTIVITIES AS ORDERED BY THE ENGINEER. THE SOLE DUTY OF ANY SUCH FLAGGERS SHALL BE TO DIRECT TRAFFIC PROPERLY AT ALL TIMES. THESE FLAGGERS SHALL BE POSITIONED AOBW WITH THE APPROPRIATE ADVANCE WARNING SIGNS IN PLACE.
4. MOST WORK OPERATIONS ARE CONSIDERED TO BE OF LONG DURATION. OPERATIONS DURING WHICH THE EQUIPMENT BEING USED PROGRESSES ALONG THE ROADWAY IN A MORE OR LESS CONTINUOUS MANNER (FOR EXAMPLE, TO SEED AND TO REMOVE OR APPLY PAVEMENT MARKINGS) CAN BE CONSIDERED A MOBILE OPERATION.
5. FOR TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREAS NOT SPECIFIED IN THE PLANS, THE PROVISIONS OF PART 6 OF THE MUTCD SHALL APPLY. THE APPLICATION OF STANDARDS NOTED HEREIN AND ON THE PLANS IS TO BE CONSIDERED MINIMUM STANDARDS.
6. PRIOR TO THE START OF ANY WORK OPERATION, ALL RELATED WORK FOR THE TEMPORARY TRAFFIC CONTROL SHALL BE IN PLACE AND COMPLETE. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SIGNS, PAVEMENT DELINEATION, BARRIERS, ROADSIDE DELINEATION (CONES, DRUMS, ETC.), FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, ANY REVISIONS PROPOSED TO THE TEMPORARY TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL FIVE (5) WORKING DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS. PROPOSED REVISIONS THAT ALTER THE BASIC CONCEPT OF THE TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO THE ENGINEER IN WRITING FOR REVIEW AND APPROVAL BY THE COUNTY THIRTY (30) WORKING DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS.
8. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER, IN WRITING, THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF THE CONTRACTOR'S STAFF AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS DURING AND OUTSIDE NORMAL WORKING HOURS.

**RESTRICTIONS:**

1. NO MATERIAL IS TO BE STORED WITHIN THE ROADSIDE AREA THAT IS OPEN TO TRAFFIC EXCEPT THAT WHICH IS TO BE PLACED THAT DAY WITH THE APPROVAL OF THE ENGINEER.
2. THE FOLLOWING WORK HOUR RESTRICTIONS SHALL BE STRICTLY ENFORCED:
  - WEEKDAY HOURS: 7:00 A.M. TO 7:00 P.M.
  - NO SATURDAY OR SUNDAY WORK, UNLESS APPROVED BY ENGINEER
  - NO LANE RESTRICTIONS EXCLUSIVE OF THE ROAD CLOSURE FROM 6:00 P.M. TO 7:00 A.M. MONDAY THROUGH SUNDAY, FROM 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY.
  - NO NIGHTTIME WORK.
3. IF NIGHTTIME WORK IS REQUESTED IN WRITING BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, THE COST OF ANY LIGHTING OPERATIONS AS REQUIRED BY SECTION 619-3.19 OF THE STANDARD SPECIFICATIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE COUNTY.
4. WORK RESTRICTIONS MAY BE WAIVED ON A CASE BY CASE BASIS, AS SPECIFICALLY AUTHORIZED BY THE ENGINEER, OR WHEN THE PROPOSED WORK REQUESTED TO BE PERFORMED IS OF A NON-DISRUPTIVE NATURE, AS DETERMINED BY THE ENGINEER.
5. ACCESS TO ALL DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR IS ALERTED TO THE CLOSE PROXIMITY OF TWO PRIVATE DRIVEWAYS IN THE WORK AREA AND APPROXIMATE EXCAVATION LIMITS. TRAFFIC CONTROL DEVICES INCLUDING THE TEMPORARY CONCRETE BARRIERS AND BARRICADES MUST BE POSITIONED IN A SAFE MANNER TO PROVIDE CONTINUOUS ACCESS TO THE PROPERTY OWNER. ADJUSTMENTS TO THE PLACEMENT OF THESE DEVICES MAY BE REQUIRED AND SHALL BE A.O.B.E. AT NO ADDITIONAL COST TO THE COUNTY.

**CONSTRUCTION VEHICLES:**

1. ESCORT VEHICLES EQUIPPED WITH AN APPROVED ROTATING OR FLASHING AMBER WARNING LIGHT OR AN OPERATING ARROW BOARD SHALL BE REQUIRED WHEN TRANSPORTING SLOW MOVING CONSTRUCTION EQUIPMENT ALONG ANY PORTION OF THE ROADWAY THAT IS OPEN TO TRAFFIC.
2. ALL VEHICLES THAT WILL MOVE INTO AND OUT OF TRAFFIC AT WORK AREAS SHALL BE EQUIPPED WITH AN APPROVED ROTATING OR FLASHING AMBER WARNING LIGHT THAT SHALL BE MOUNTED SO AS TO BE EASILY SEEN BY APPROACHING TRAFFIC.
3. VEHICLES AND EQUIPMENT ARE NOT TO BE PARKED WITHIN THE CLEAR ROADSIDE AREA OF ALL ROADWAYS OPEN AND USED BY THE GENERAL PUBLIC, OR ANY OTHER AREAS DEEMED HAZARDOUS BY THE E.I.C.
4. VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG THE ROADWAY WHERE PARKING IS NOT NORMALLY PERMITTED.
5. VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S WORKERS SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS SIGNS, BARRICADES, BARRIERS, OR OTHER TRAFFIC CONTROL DEVICES.

**SIGNING AND DEVICES:**

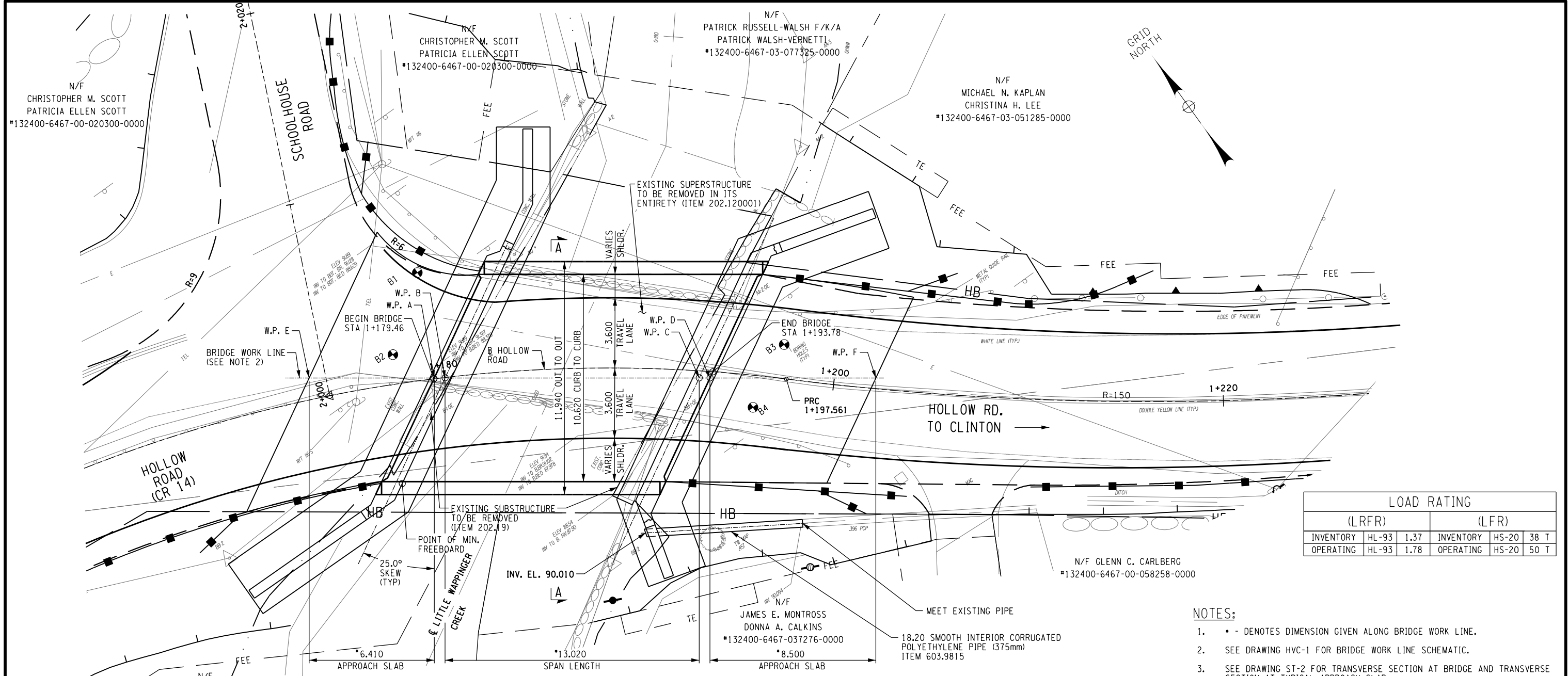
1. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MUTCD.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES FOR THE DURATION OF THE CONTRACT. THE CONTRACTOR SHALL ENSURE THAT ALL DEVICES ARE IN PLACE, IN GOOD CONDITION, AND REMAIN CLEAN. THE ENGINEER SHALL BE THE SOLE JUDGE AS TO THE EFFECTIVENESS OF THE CONTRACTOR'S EFFORTS TOWARD THE MAINTENANCE OF TRAFFIC CONTROL DEVICES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01.
3. ANY EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SHALL BE COVERED, REMOVED, STORED, OR RESET, AOBE. BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO SIGNS CAUSED BY THE METHODS USED TO TEMPORARILY REMOVE, COVER, OR MODIFY SIGN PANELS AND SUPPORTS, AND SHALL BE REQUIRED TO REPAIR OR REPLACE DAMAGED SIGNS AND SUPPORTS TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE COUNTY. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED UNDER THIS CONTRACT.
4. SIGNS AND DEVICES AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
5. IF CONSTRUCTION RELATED TRAFFIC CONGESTION BACKS UP BEYOND THE INSTALLED ADVANCE SIGN SEQUENCE, ADDITIONAL SIGNING PLACED IN ADVANCE OF THE CONGESTION MAY BE REQUIRED BY THE ENGINEER.
6. WARNING FLAGS ON SIGNS MAY BE USED TO INCREASE TARGET VALUE AND VISIBILITY OF WORK ZONE SIGNS DURING DAYLIGHT HOURS, AOBE.
7. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED ON STANDARD SHEET 619-12 OF THE NYS DOT STANDARD SHEETS. THESE DIMENSIONS MAY BE INCREASED WHENEVER NECESSARY FOR GREATER LEGIBILITY OR EMPHASIS, AOBE.
8. ALL SIGNS, INCLUDING ALL GUIDE SIGNS, SHALL INDICATE THE ACTUAL CONDITIONS AT ALL TIMES. SIGNS SHALL BE COVERED, REPOSITIONED, OR CHANGED IMMEDIATELY AS DIRECTED BY THE ENGINEER. NO SIGN SHALL BE PLACED AT ANY LOCATION WHERE IT COULD BE OBSCURED BY TEMPORARY OR PERMANENT OBJECTS.
9. CONSTRUCTION SIGNS SHALL BE LOCATED A MINIMUM OF 0.6 M HORIZONTALLY OFF THE EDGE OF THE TRAVEL LANE OR AOBW.

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CAD\2517 DETOUR PLAN1.SHT

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
							DATE: MAY 2016 DES. TJA CCF    DR. AL CCF    CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19 BIN 3342820
							DETAILS: <b>WORK ZONE TRAFFIC CONTROL ROAD CLOSURE PLAN</b> SCALE: NOT TO SCALE	DRAWING NO: <b>WZ-2</b> SHEET 16

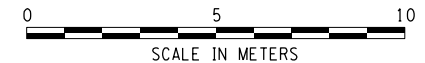
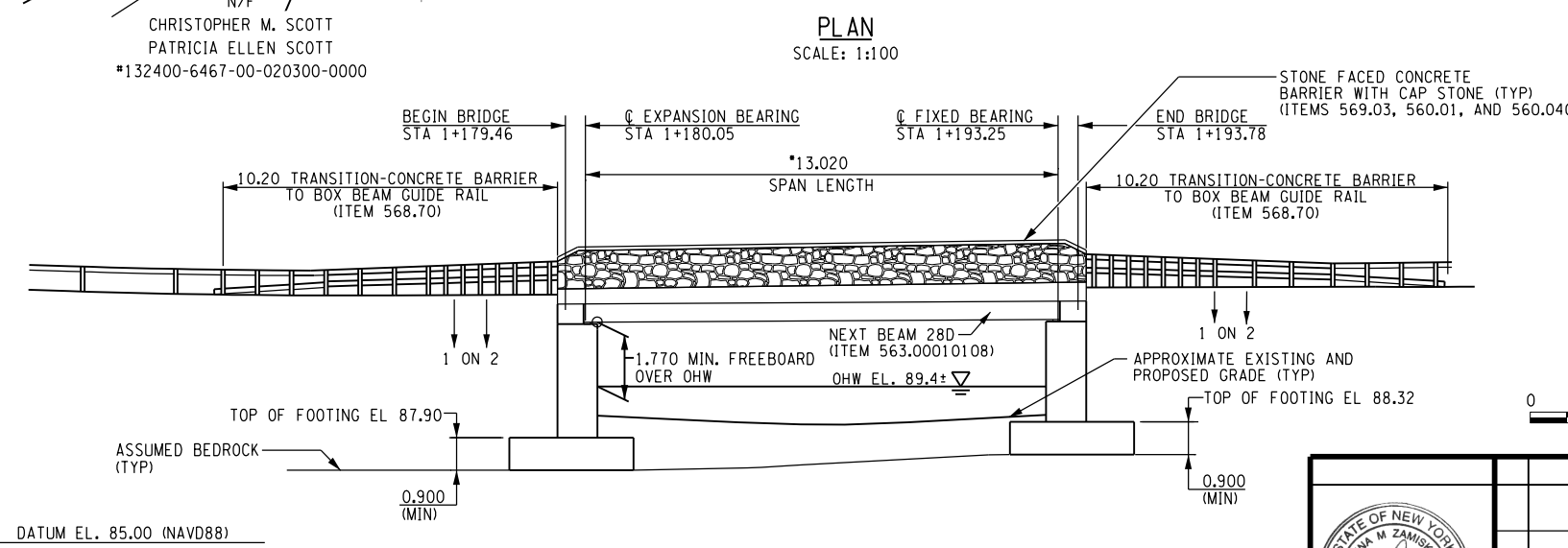




LOAD RATING					
(LRFR)			(LFR)		
INVENTORY	HL-93	1.37	INVENTORY	HS-20	38 T
OPERATING	HL-93	1.78	OPERATING	HS-20	50 T

- NOTES:**
- - DENOTES DIMENSION GIVEN ALONG BRIDGE WORK LINE.
  - SEE DRAWING HVC-1 FOR BRIDGE WORK LINE SCHEMATIC.
  - SEE DRAWING ST-2 FOR TRANSVERSE SECTION AT BRIDGE AND TRANSVERSE SECTION AT TYPICAL APPROACH SLAB.
  - PRIOR TO CONSTRUCTION, UTILITY POLES AND OVERHEAD UTILITY LINES WILL BE RELOCATED BY OTHERS. APPROXIMATE POLE LOCATIONS ARE SHOWN, REFER TO THE GENERAL ROADWAY PLAN FOR ALL NEW POLE LOCATIONS AND EXISTING POLES TO BE REMOVED.
  - HIGH VOLTAGE ELECTRIC LINES ARE IN PROXIMITY TO THIS BRIDGE. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR CONTRACTOR SAFETY REQUIREMENTS.

- RIGHT-OF-WAY ACQUISITION NOTES:**
- THE FOLLOWING MAPS, AS PROVIDED BELOW, ARE CURRENTLY UNAVAILABLE. ANTICIPATED AVAILABILITY DATE IS JANUARY 6, 2017. DO NOT ENTER UPON PROPERTY UNTIL WRITTEN APPROVAL IS RECEIVED FROM DUTCHESS COUNTY.
- | MAP ID | OWNER   |
|--------|---|
| MAP 1  | CHRISTOPHER M. SCOTT/PATRICIA ELLEN SCOTT           |
| MAP 2  | PATRICK RUSSELL-WALSH F/K/A/ PATRICK WALSH-VERNETTI |
| MAP 3  | MICHAEL N. KAPLAN/CHRISTINA H. LEE                  |
| MAP 7  | CHRISTOPHER M. SCOTT/PATRICIA ELLEN SCOTT           |
| MAP 8  | MICHAEL N. KAPLAN/CHRISTINA H. LEE                  |



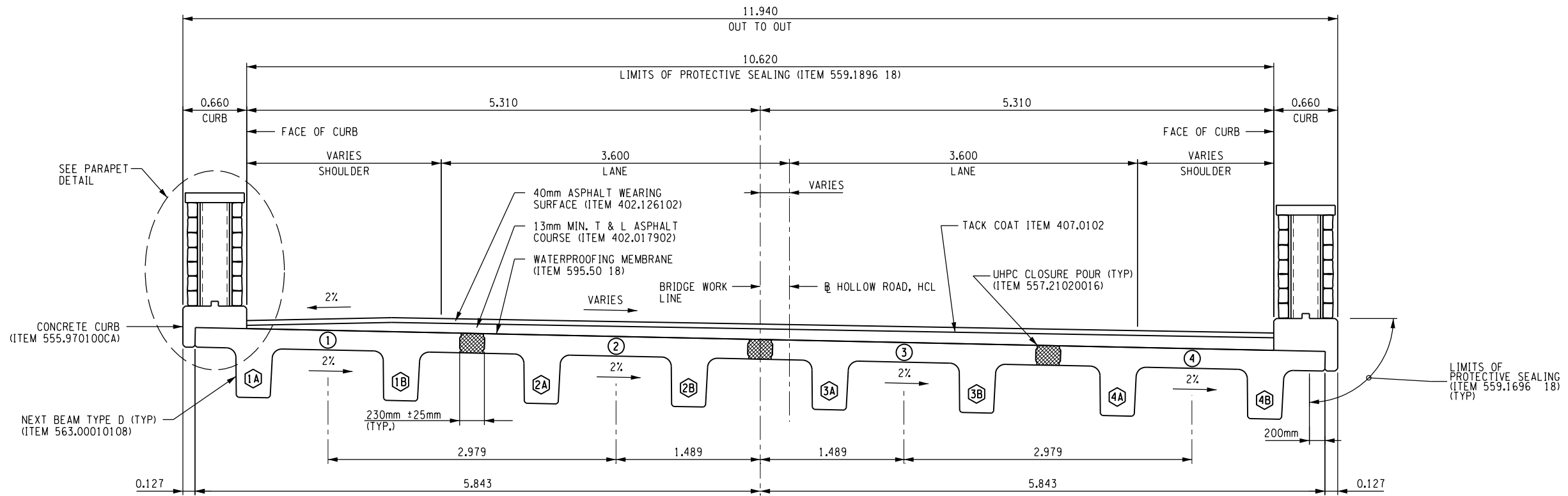
**PLAN**  
SCALE: 1:100

**ELEVATION**  
SCALE: 1:100

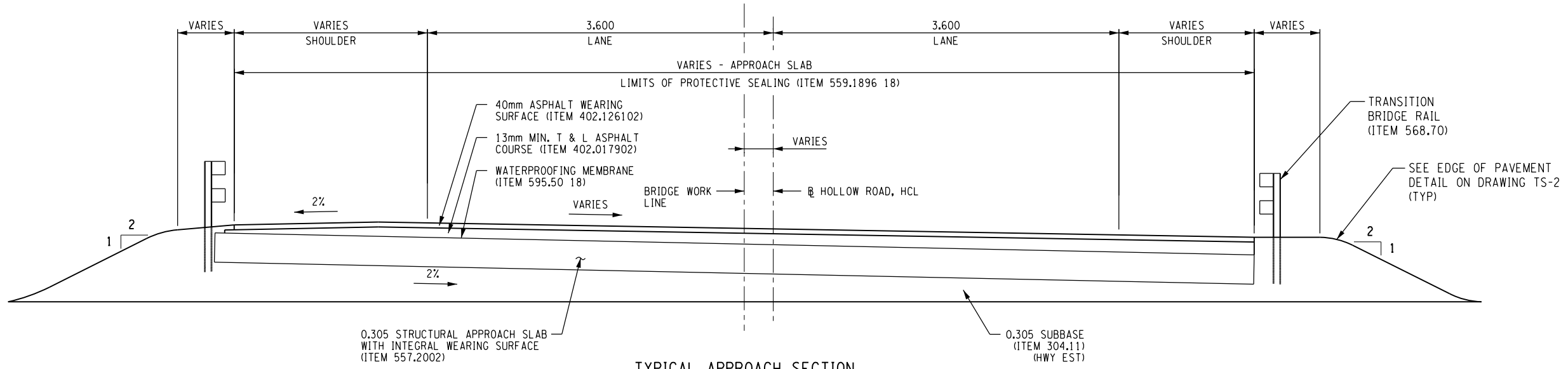
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE PLOTTED: 8/29/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 GPE.SHT

				<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
	DATE: MAY 2016 DES. DR. CK.	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19			BIN 3342820
<b>GENERAL PLAN AND ELEVATION</b>				SCALE: 1:100	DRAWING NO: <b>ST-1</b> SHEET 17



TRANSVERSE BRIDGE SECTION  
NOT TO SCALE



TYPICAL APPROACH SECTION  
NOT TO SCALE

NOTES:  
 DETAILS ON THE DRAWING LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONALLY AND ARE FULLY DIMENSIONED.

DATE PLOTTED: 8/18/2016  
 FILE NAME: G:\PROJ\2517\Bridge\CADD\2517 PROP Bridge Section.sht

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
						DATE: MAY 2016 DES. TJA CCF    DR. AL CCF    CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
<b>TYPICAL BRIDGE SECTIONS</b>						SCALE: NOT TO SCALE	DRAWING NO: <b>ST-2</b> SHEET 18	

SOILTESTING, INC. 140 OXFORD RD. OXFORD, CT 06478 CT (203) 888-4531 NY (914) 946-4850		CLIENT: Lichtenstein Consulting Engineer		SHEET 1 OF 1 HOLE NO. B-1	
PROJECT NO. G146-7740-06		PROJECT NAME Hollow Road Bridge # C-19		BORING LOCATIONS as directed	
FOREMAN - DRILLER TPJw/jdd		LOCATION Clinton, NY			
INSPECTOR Greg		TYPE HSA SS		DATE START 10/5/06	
GROUND WATER OBSERVATIONS		SIZE I.D. 3 1/2"		DATE FINISH 10/5/06	
AT 13 FT AFTER 0 HOURS		HAMMER WT. 140#		SURFACE ELEV.	
AT FT AFTER HOURS		HAMMER FALL 30"		GROUND WATER ELEV.	
SAMPLE					
DEPTH @ BOT	CASING BLOWS PER FOOT	NO	Type	REC	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
6"					Asphalt
					Sm boulder to 2'6"
					dry
					Sm cobbles to 4'
5	1	ss	24"	7'0"	Brn FM SAND, sm F gravel, lit silt, tr C gravel
					Brn F SAND & SILT, sm clay, F gravel
					moist loose
10	2	ss	24"	12'0"	Brn FM SAND & SILT, sm clay, decomposed rock frags, lit F gravel
					Brn FM SAND & SILT, sm clay, decomposed rock frags
					vm moist compact
15	3	ss	4"	15'4"	Brn gry FM SAND & SILT, sm clay, decomposed rock frags
					15'0"
					wet v dense
20	1	c	60"	23'6"	Fractured bedrock
					Auger refusal
					18'6"
					Bedrock
					E.O.B. 23'6"

SOILTESTING, INC. 140 OXFORD RD. OXFORD, CT 06478 CT (203) 888-4531 NY (914) 946-4850		CLIENT: Lichtenstein Consulting Engineer		SHEET 1 OF 1 HOLE NO. B-2	
PROJECT NO. G146-7740-06		PROJECT NAME Hollow Road Bridge # C-19		BORING LOCATIONS as directed	
FOREMAN - DRILLER PDJw/jdd/djd		LOCATION Clinton, NY			
INSPECTOR Greg		TYPE HSA SS		DATE START 10/5/06	
GROUND WATER OBSERVATIONS		SIZE I.D. 3 1/2"		DATE FINISH 10/5/06	
AT 10 FT AFTER 0 HOURS		HAMMER WT. 140#		SURFACE ELEV.	
AT FT AFTER HOURS		HAMMER FALL 30"		GROUND WATER ELEV.	
SAMPLE					
DEPTH @ BOT	CASING BLOWS PER FOOT	NO	Type	REC	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
6"					Asphalt
					dry
5	1	ss	24"	7'0"	Ltbrn brn gry FM SAND, FC gravel, sm silt, cobbles, lit boulders
					dry compact
10	2	ss	24"	14'0"	Ltbrn lly gry brn FMC SAND, silt, sm FC gravel
					Lit cobbles at 12'
					wet loose
15	3	ss	2"	15'2"	Partially decomposed bedrock
					Decomposed rock/rock frags
					Auger refusal
					15'6"
					Bedrock
					E.O.B. 20'6"

SOILTESTING, INC. 140 OXFORD RD. OXFORD, CT 06478 CT (203) 888-4531 NY (914) 946-4850		CLIENT: Lichtenstein Consulting Engineer		SHEET 1 OF 1 HOLE NO. B-3	
PROJECT NO. G146-7740-06		PROJECT NAME Hollow Road Bridge # C-19		BORING LOCATIONS as directed	
FOREMAN - DRILLER TPJw/jdd		LOCATION Clinton, NY			
INSPECTOR Greg		TYPE HSA SS		DATE START 10/5/06	
GROUND WATER OBSERVATIONS		SIZE I.D. 3 1/2"		DATE FINISH 10/5/06	
AT 13 FT AFTER 0 HOURS		HAMMER WT. 140#		SURFACE ELEV.	
AT FT AFTER HOURS		HAMMER FALL 30"		GROUND WATER ELEV.	
SAMPLE					
DEPTH @ BOT	CASING BLOWS PER FOOT	NO	Type	REC	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
6"					Asphalt
					Brn FM SAND & FC GRAVEL, sm cobbles
					3'0"
5	1	ss	24"	7'0"	Brn FM SAND & F GRAVEL, sm silt, lit C gravel
					dry compact
10	2	ss	24"	13'0"	Brn SILT & F GRAVEL, sm FM sand, clay, lit C gravel, cobbles, rock frags
					moist stiff
15	1	c	60"	20'0"	Auger refusal
					15'0"
					Bedrock
					E.O.B. 15'0"

SOILTESTING, INC. 140 OXFORD RD. OXFORD, CT 06478 CT (203) 888-4531 NY (914) 946-4850		CLIENT: Lichtenstein Consulting Engineer		SHEET 1 OF 1 HOLE NO. B-4	
PROJECT NO. G146-7740-06		PROJECT NAME Hollow Road Bridge # C-19		BORING LOCATIONS as directed	
FOREMAN - DRILLER PDJw/jdd/djd		LOCATION Clinton, NY			
INSPECTOR Greg		TYPE HSA SS		DATE START 10/6/06	
GROUND WATER OBSERVATIONS		SIZE I.D. 3 1/2"		DATE FINISH 10/6/06	
AT 13 FT AFTER 0 HOURS		HAMMER WT. 140#		SURFACE ELEV.	
AT FT AFTER HOURS		HAMMER FALL 30"		GROUND WATER ELEV.	
SAMPLE					
DEPTH @ BOT	CASING BLOWS PER FOOT	NO	Type	REC	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
6"					Asphalt
					Brn ltrn SILT & FM SAND, sm FC gravel, boulders, cobbles
					dry stiff
5	1	ss	24"	10'0"	(BOULDER FILL TO 7'6")
					Brn ltrn SILT, lit FM sand
					7'6"
10	2	ss	24"	19'0"	Ltbrn brn SILT & FMC SAND, sm FC gravel, lit cobbles
					Lit cobbles, boulders or fractured rock from 12'6"
					11'0"
					Partially decomposed bedrock
					Auger refusal
					14'0"
					Partially decomposed bedrock
					Auger refusal
					15'0"
					Bedrock
					E.O.B. 20'0"

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. B-1  
 A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. B-2  
 A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE



GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. B-3  
 A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. B-4  
 A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

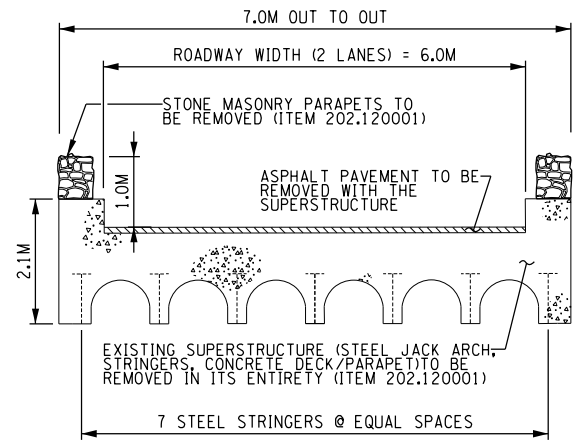
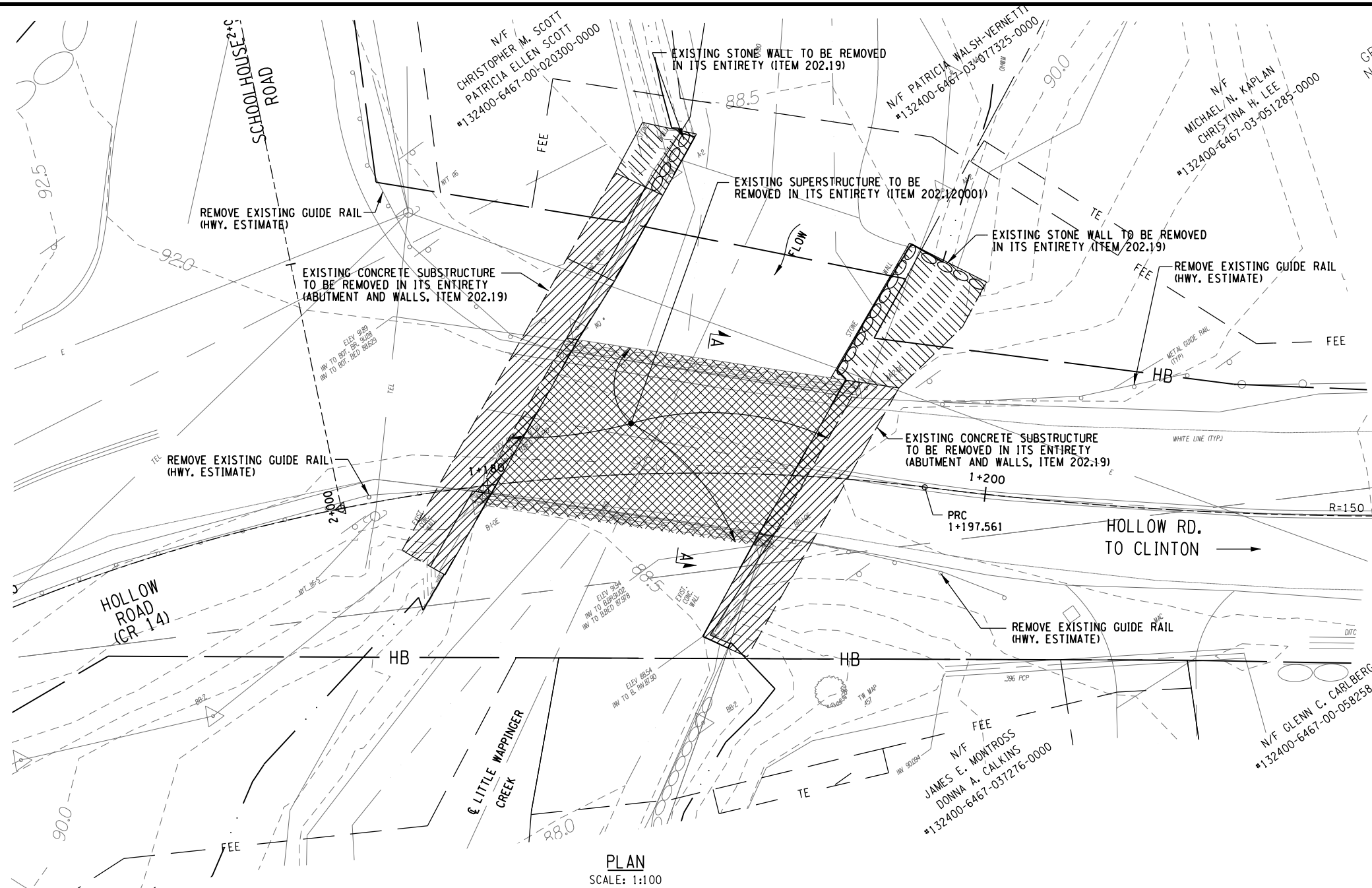
NOTES:  
 1. SEE DRAWING ST-1 FOR BORING LOCATIONS.

DATE PLOTTED: 8/18/2016  
 FILE NAME: G:\PROJ\2517\Bridges\CADD\2517 BORING LOGS.SHT

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		DUTCHESS COUNTY DEPARTMENT OF PUBLIC WORKS	
							DATE: MAY 2016 DES. TJA CCF
BORING LOGS						SCALE: NOT TO SCALE	

DATE PLOTTED: 8/29/2016  
 FILE NAME: G:\PROJ\2517\bridge\cadd\2517 GENERAL REMOVAL AND ELEVATION PLAN.SHT



**LEGEND:**

- DENOTES AREAS OF EXISTING SUPERSTRUCTURE REMOVAL, (ITEM 202.120001)
- DENOTES AREAS OF EXISTING SUBSTRUCTURE REMOVAL, (ITEM 202.19)
- DENOTES AREAS OF EXISTING STONE MASONRY REMOVAL TO BE INCLUDED UNDER SUBSTRUCTURE REMOVAL, (ITEM 202.19)

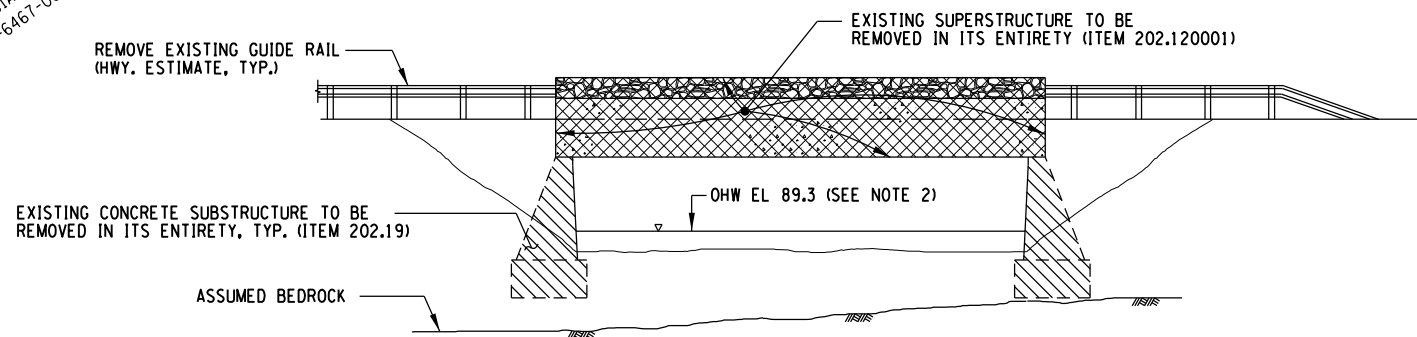
**NOTES:**

1. ELECTRICAL LINES ARE IN PROXIMITY TO THIS BRIDGE. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR CONTRACTOR SAFETY REQUIREMENTS.
2. THE ACTUAL CROSS SECTIONAL DIMENSIONS OF EXISTING ABUTMENTS AND WINGWALLS ARE UNKNOWN AS ORIGINAL AS-BUILT PLANS ARE NOT AVAILABLE. REMOVAL QUANTITIES ARE APPROXIMATE AND WILL VARY DEPENDING ON ACTUAL CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

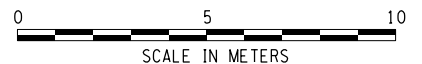
**RIGHT-OF-WAY ACQUISITION NOTES:**

1. THE FOLLOWING MAPS, AS PROVIDED BELOW, ARE CURRENTLY UNAVAILABLE. ANTICIPATED AVAILABILITY DATE IS JANUARY 6, 2017. DO NOT ENTER UPON PROPERTY UNTIL WRITTEN APPROVAL IS RECEIVED FROM DUTCHESS COUNTY.

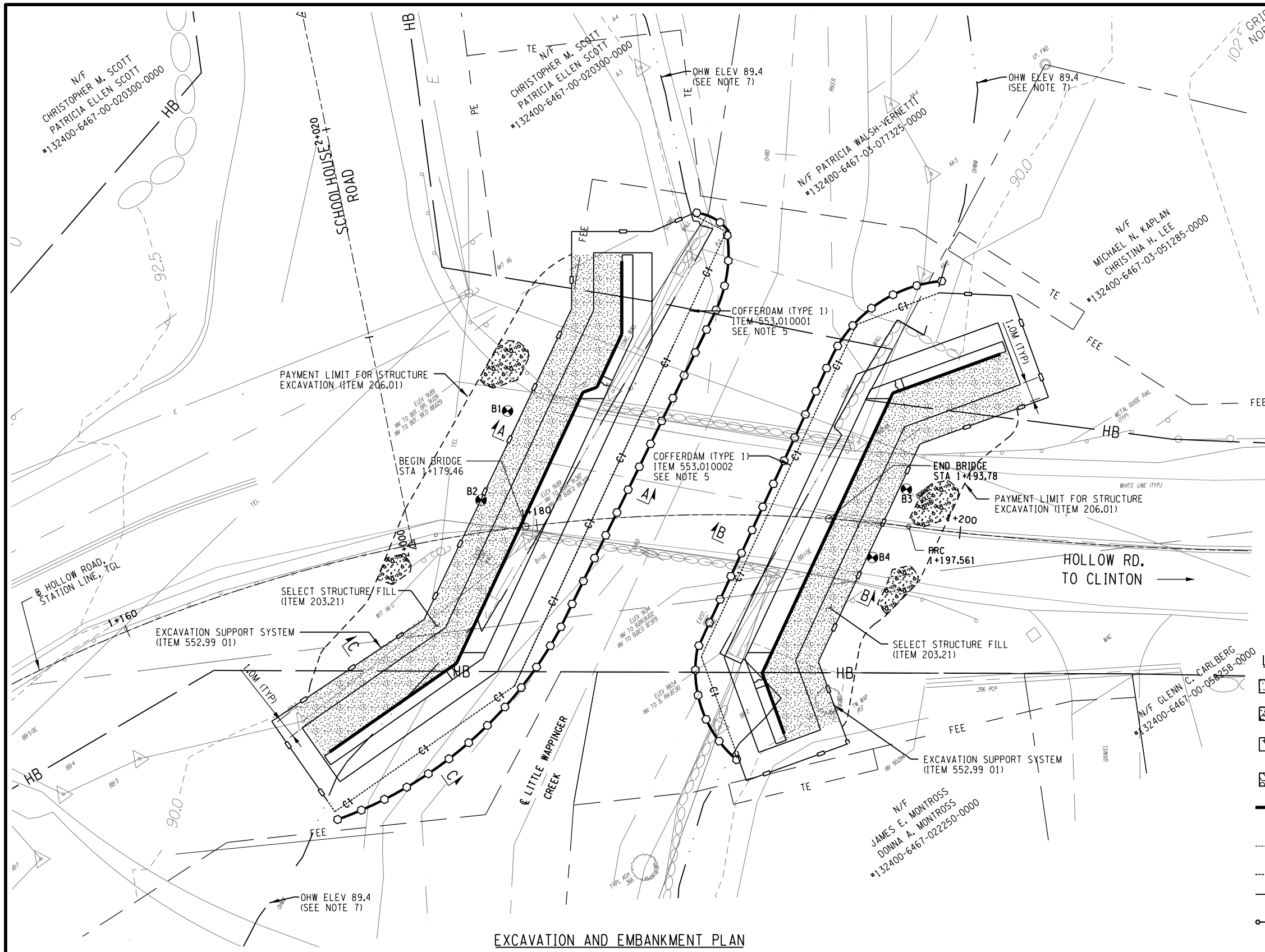
MAP ID	OWNER
MAP 1	CHRISTOPHER M. SCOTT/PATRICIA ELLEN SCOTT
MAP 2	PATRICK RUSSELL-WALSH F/K/A/ PATRICK WALSH-VERNETTI
MAP 3	MICHAEL N. KAPLAN/CHRISTINA H. LEE
MAP 7	CHRISTOPHER M. SCOTT/PATRICIA ELLEN SCOTT
MAP 8	MICHAEL N. KAPLAN/CHRISTINA H. LEE



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED



	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>					
	DATE:	MAY 2016		DES.	DR.		CK.	PROJECT:	REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820		
							DETAILS:	GENERAL REMOVAL PLAN AND ELEVATION	SCALE:	1:100	DRAWING NO:	ST-4
												SHEET 20



**NOTES:**

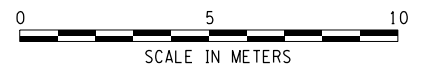
- FOR EXISTING BRIDGE REMOVAL LIMITS AND DETAILS, SEE DRAWING ST-4.
- ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21 SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.
- HIGHWAY EMBANKMENT MATERIAL AND SELECT STRUCTURE FILL (ITEM 203.21) SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
- ELECTRICAL LINES ARE IN PROXIMITY TO THIS BRIDGE. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR CONTRACTOR SAFETY REQUIREMENTS.
- LIMITS FOR COFFERDAM, TYPE 1 USED AT THE ABUTMENTS AND WINGWALLS TO BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE PERMITS AND STANDARD SPECIFICATION REQUIREMENTS.
- THE CONTRACTOR SHALL UTILIZE ITEM 552.99 01 EXCAVATION SUPPORT SYSTEM DUE TO CLOSE PROXIMITY OF DRIVEWAYS, INTERSECTION AND LIMITING ROW.
- ORDINARY HIGH WATER (OHW) DEFINED AS THE WATER SURFACE ELEVATION OF THE MEAN ANNUAL FLOOD, (RECURRENCE INTERVAL OF 2.33 YEARS) HAS NOT BEEN COMPUTED FOR THIS PROJECT AND ESTIMATED TO BE ELEVATION 89.4. THE 10-YEAR FLOOD EVENT WATER SURFACE ELEVATION IS 89.46 METERS FROM THE FEMA FLOOD INSURANCE STUDY OF THE LITTLE WAPPINGER CREEK, REACH 1. REFER TO DRAWING NO. GEN-2 FOR STREAM NOTES.
- REFER TO DRAWING NO. ST-6 FOR EXCAVATION SECTIONS A-A, B-B AND C-C AND DETAILS OF VEGETATED SLOPE PROTECTION AND STONE FILL NOT SHOWN FOR CLARITY IN PLAN.
- LIMITS OF EXCAVATION SHALL BE COORDINATED WITH THE WORK ZONE TRAFFIC CONTROL ITEMS ON THE PROJECT. THE CONTRACTOR IS ALERTED TO THE DRIVEWAY IN CLOSE PROXIMITY TO THE EAST ABUTMENT EXCAVATION WORK. TEMPORARY BARRIERS AND BARRICADES SHALL BE PLACED IN A SAFE MANNER THAT WILL NOT BE COMPROMISED BY THE CONTRACTOR'S OPERATIONS.

**LEGEND:**

- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STADARD PROCTOR
- HIGHWAY EMBANKMENT MATERIAL
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01)
- STONE FILLING (MEDIUM) (ITEM 620.04)
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN (PCSD) ITEM 207.26 BEHIND WINGWALLS AND PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN BEHIND ABUTMENT WALLS (PCIAD) ITEM 207.27
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
- DESIGNATES COFFERDAM (TYPE 1) (ITEM 553.010001 WEST; ITEM 553.010002 EAST)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR EXCAVATION SUPPORT SYSTEM (ITEM 552.99 01)
- DESIGNATES TEMPORARY TURBIDITY CURTAIN ITEM 209.1501

**EXCAVATION AND EMBANKMENT PLAN**

SCALE: 1:100



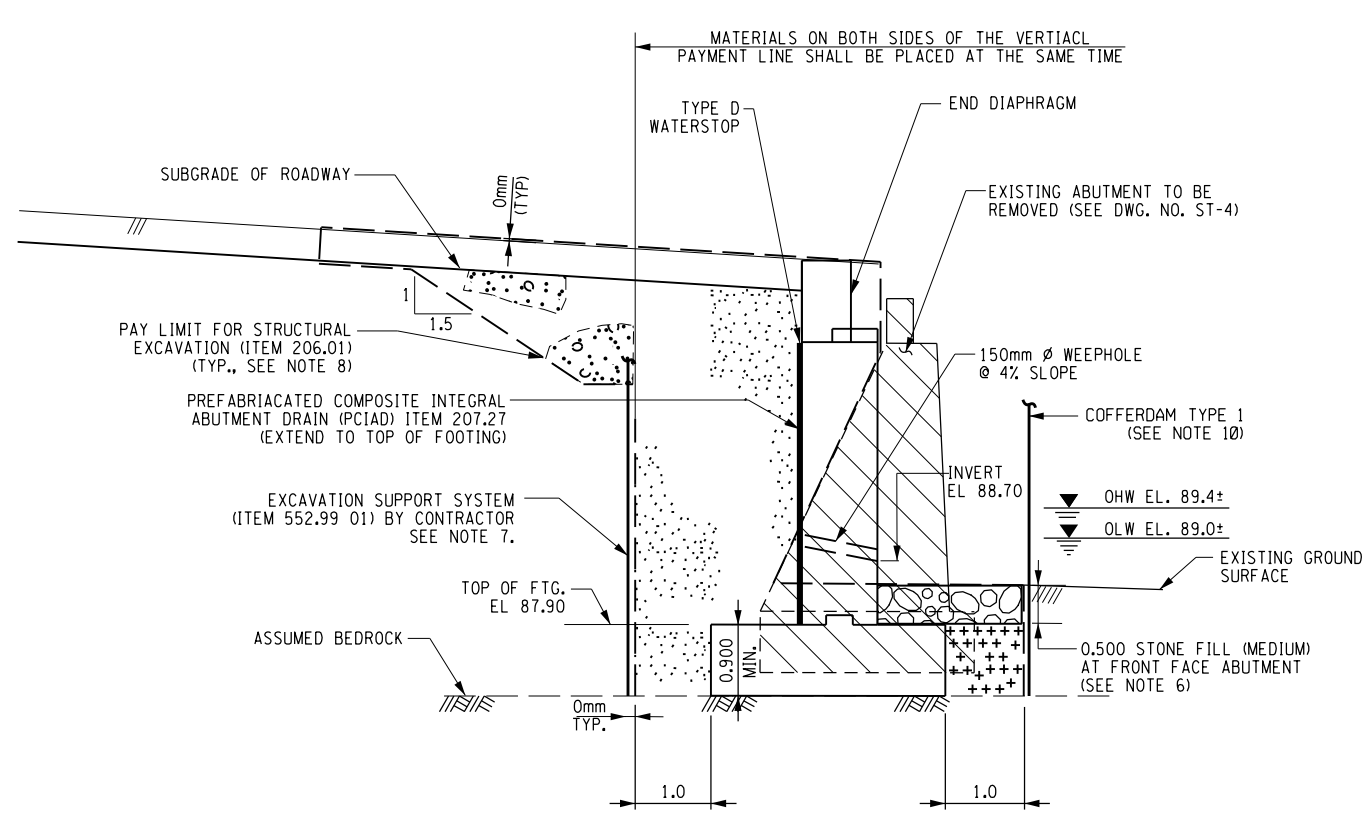
**RIGHT-OF-WAY ACQUISITION NOTES:**

- THE FOLLOWING MAPS, AS PROVIDED BELOW, ARE CURRENTLY UNAVAILABLE. ANTICIPATED AVAILABILITY DATE IS JANUARY 6, 2017. DO NOT ENTER UPON PROPERTY UNTIL WRITTEN APPROVAL IS RECEIVED FROM DUTCHESS COUNTY.
- | MAP ID | OWNER   |
|--------|---|
| MAP 1  | CHRISTOPHER M. SCOTT/PATRICIA ELLEN SCOTT           |
| MAP 2  | PATRICK RUSSELL-WALSH F/K/A/ PATRICK WALSH-VERNETTI |
| MAP 3  | MICHAEL N. KAPLAN/CHRISTINA H. LEE                  |
| MAP 7  | CHRISTOPHER M. SCOTT/PATRICIA ELLEN SCOTT           |
| MAP 8  | MICHAEL N. KAPLAN/CHRISTINA H. LEE                  |

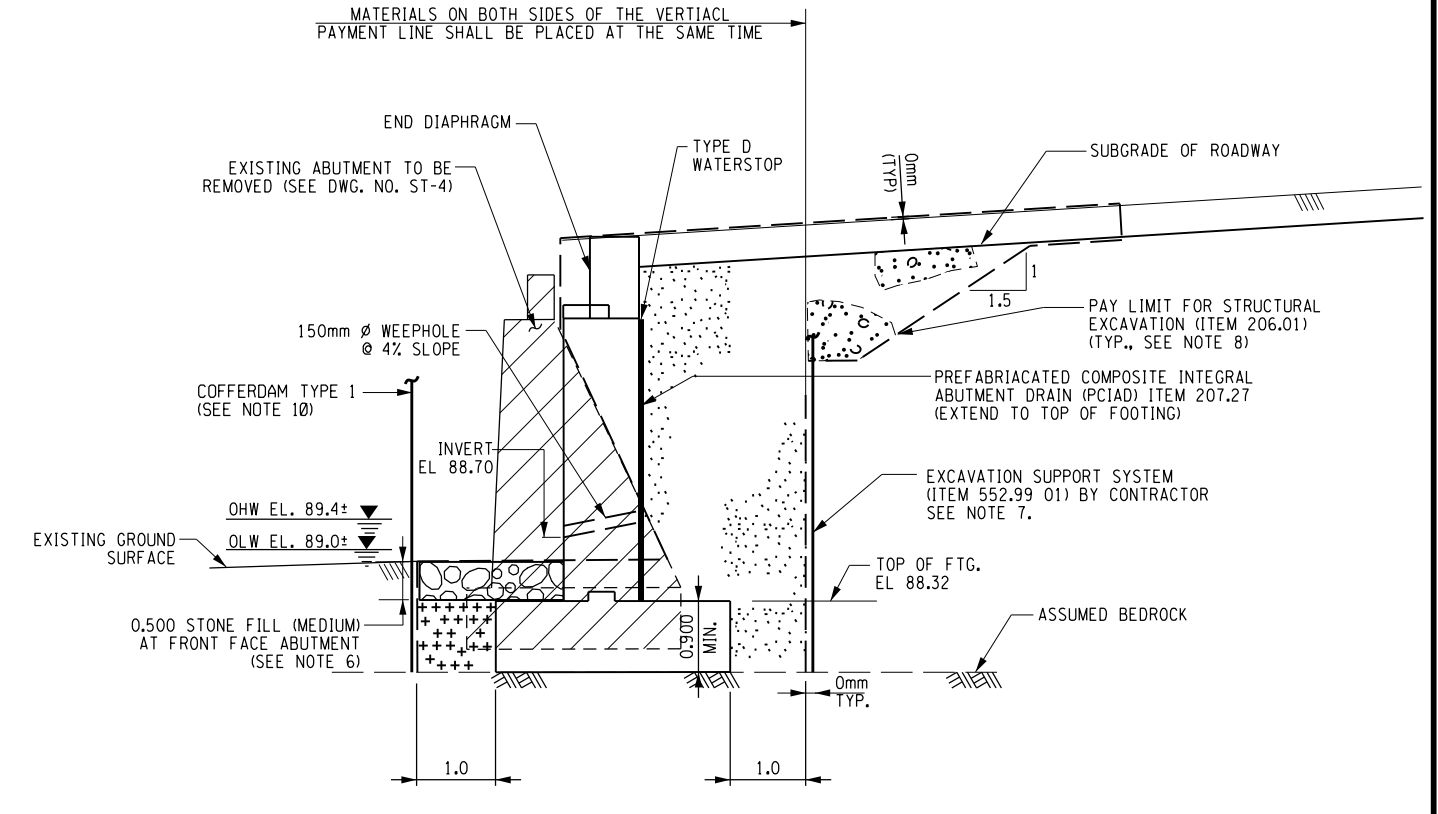
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE PLOTTED: 8/29/2016 FILE NAME: G:\PROJ\2517\bridge\CADD\2517 EXCAVATION AND EMBANKMENT PLAN.SHT

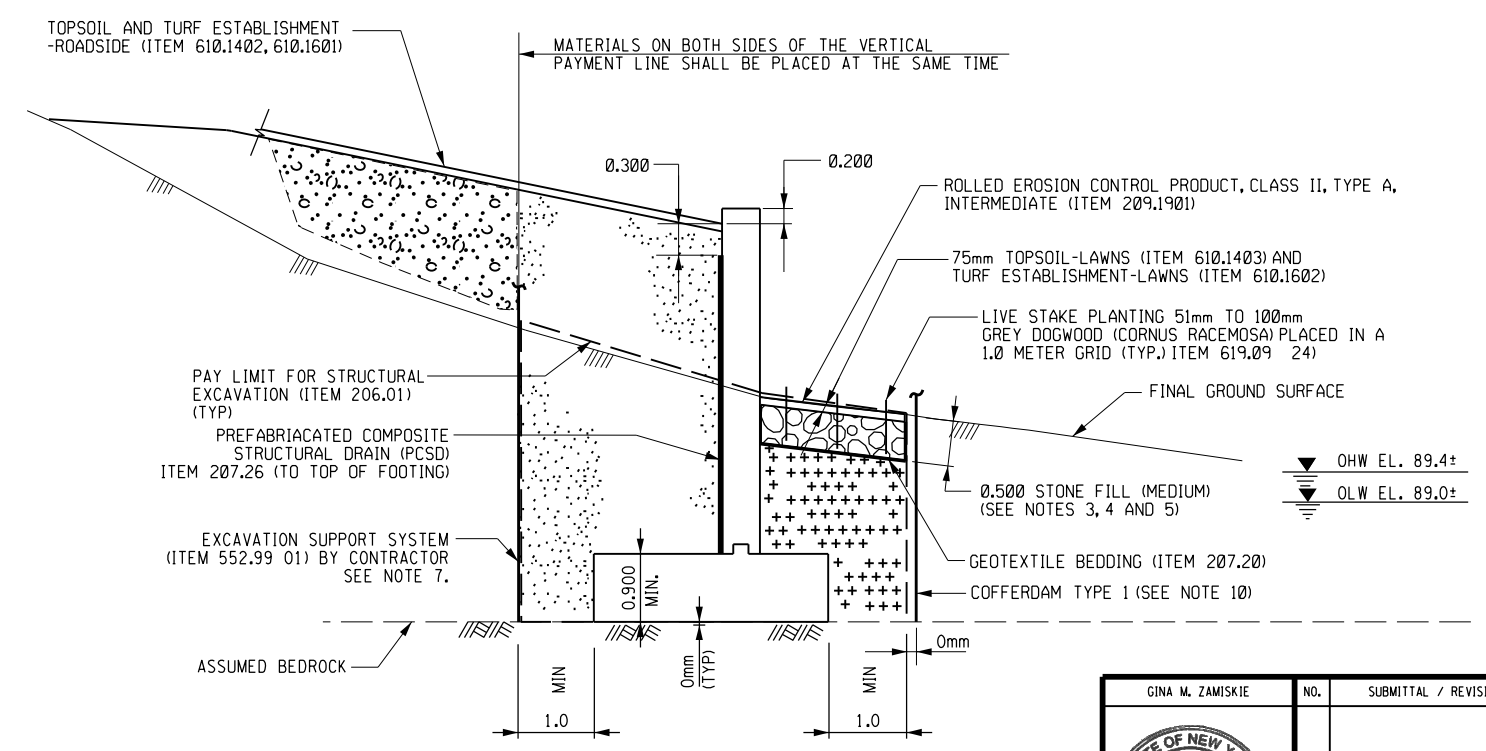
GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE			<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>			
										DATE:	MAY 2016
DES.	DR.	CK.				DETAILS:	EXCAVATION AND EMBANKMENT PLAN	SCALE:	1:100	DRAWING NO:	ST-5
											SHEET 21



SECTION A-A WEST ABUTMENT SECTION  
NOT TO SCALE



SECTION B-B EAST ABUTMENT SECTION  
NOT TO SCALE



SECTION C-C TYPICAL WINGWALL SECTION  
NOT TO SCALE

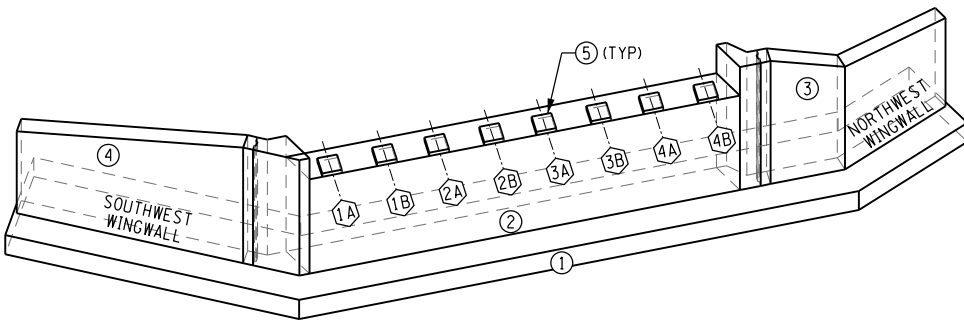
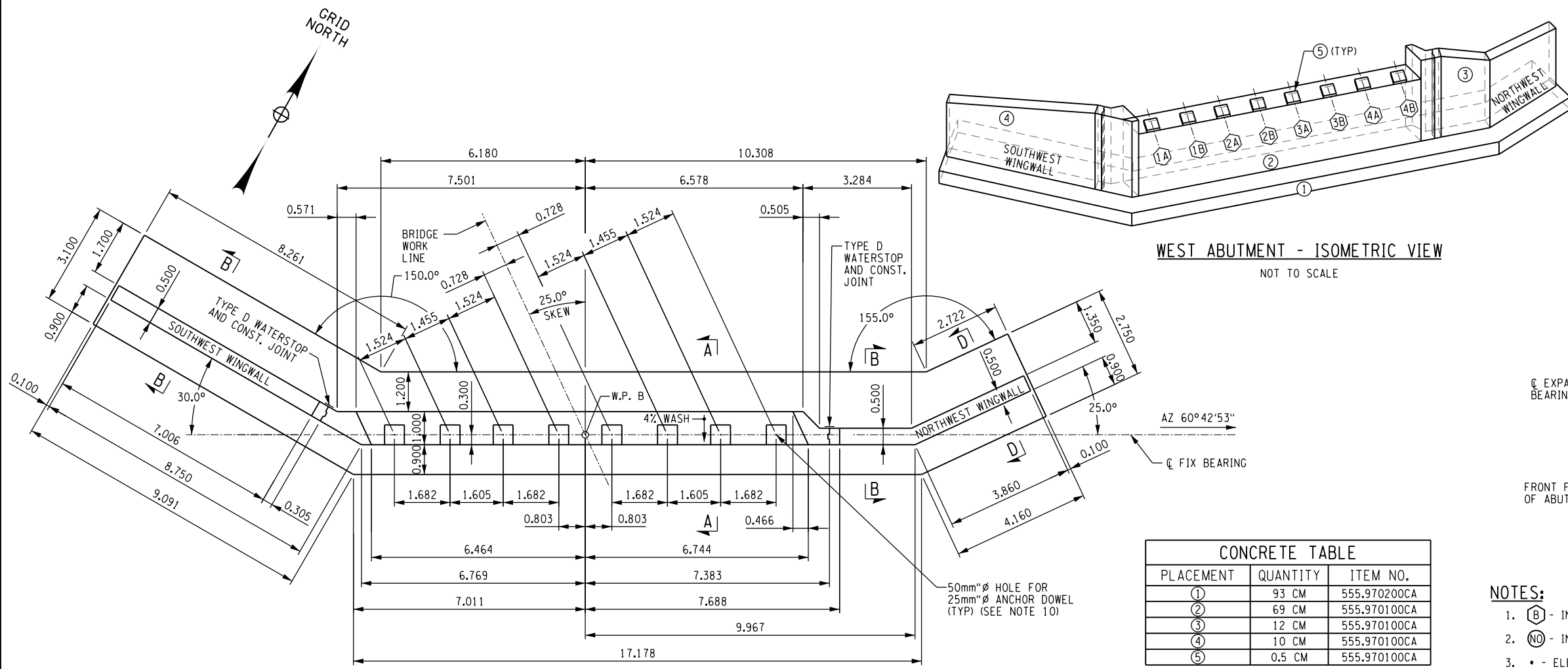
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

NOTES:

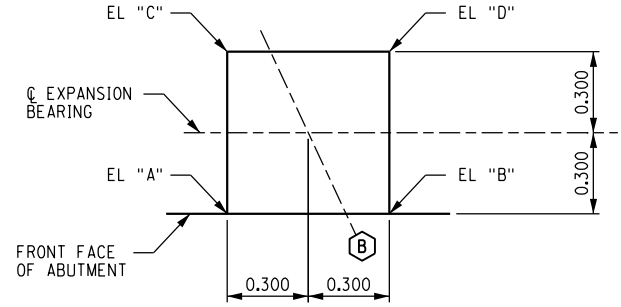
- SEE DRAWING ST-4 FOR BRIDGE REMOVAL DETAILS.
- FOR NOTES AND LEGEND, SEE DRAWING ST-5.
- EXCAVATED STREAM MATERIAL SHALL BE STOCKPILED ON SITE AND USED TO BACKFILL EXCAVATION MADE IN THE STREAM. COST SHALL BE INCLUDED IN ITEM 206.01. BACKFILL SHALL BE MADE WITH SUITABLE EXCAVATED MATERIAL.
- CONTRACTOR TO PLACE 206.01 BACKFILL WITH SUITABLE EXCAVATED MATERIAL TO FILL VOIDS IN STONE FILL PRIOR TO PLACEMENT OF TOPSOIL AT WINGWALLS VEGETATED SLOPE PROTECTION.
- CONTRACTOR SHALL ENSURE ADEQUATE VOIDS IN STONE FILL SUCH THAT STAKES CAN BE PROPERLY INSTALLED. STAKES SHALL BE INSTALLED IN A 1Mx1M GRID.
- THE STONE FILL (MEDIUM) ALONG THE ABUTMENT WALL SHALL BE PLACED TO VERTICALLY ALIGN WITH THE STONE FILL AT WINGWALL FACE. NO LIVE STAKE PLANTING OR TOPSOIL IS REQUIRED ALONG THE ABUTMENT FACE.
- BASED ON THE DRIVEWAY AT STA 1+206 RT, LIMITING ROW AND THE INTERSECTION OF SCHOOLHOUSE ROAD, THE CONTRACTOR SHALL DESIGN, FURNISH AND INSTALL AN EXCAVATION SUPPORT SYSTEM (ITEM 552.99 01) FOR THE ABUTMENT AND WINGWALL INSTALLATIONS TO LIMIT EXCAVATIONS. THE CONTRACTOR IS ALTERED TO THE LIMITING DEPTH TO BEDROCK. REFER TO THE SUBSURFACE INFORMATION ON DWG. ST-3.
- THE LIMITS FOR STRUCTURE EXCAVATION ARE SHOWN WITH A BENCH AND PARTIAL LAYBACK AT THE UPPER PORTION AS A CONCEPT ONLY. IT IS THE CONTRACTOR'S OPTION TO EMPLOY A FULL HEIGHT EXCAVATION SUPPORT SYSTEM OR PARTIAL HEIGHT WITH BENCH BASED ON THE SELECTED DESIGN. COORDINATION IS NEEDED WITH LOCATION OF THE WORK ZONE TRAFFIC CONTROL ITEMS AND MAINTAINING SAFE ACCESS TO THE DRIVEWAY.
- SEE DRAWING ST-27 FOR WATERSTOP DETAILS.
- EXCAVATION IN THE STREAM WILL BE LIMITED TO THE BOUNDARY OF THE COFFERDAM, TYPE 1. THE CONTRACTOR SHALL DESIGN THE COFFERDAM SYSTEM ACCORDINGLY TO SUPPORT EXCAVATION TO THE STREAM SIDE OF THE SUBSTRUCTURE WALLS. REFER TO DRAWING GEN-2 FOR FURTHER STREAM AND COFFERDAM REQUIREMENTS.

DATE PLOTTED: 8/18/2016  
FILE NAME: C:\PROJ\2517\bridge\CADD\2517 EXCAVATION AND EMBANKMENT SECTION 1.SHT

GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE			<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>					
						DATE:	MAY 2016	PROJECT:	REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820			
DES. TJA CCF	DR. AL CCF	CK. GMZ						DETAILS:	EXCAVATION AND EMBANKMENT SECTIONS	SCALE:	NOT TO SCALE	DRAWING NO:	ST-6
												SHEET 22	

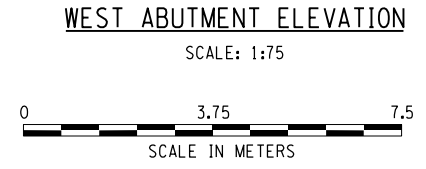
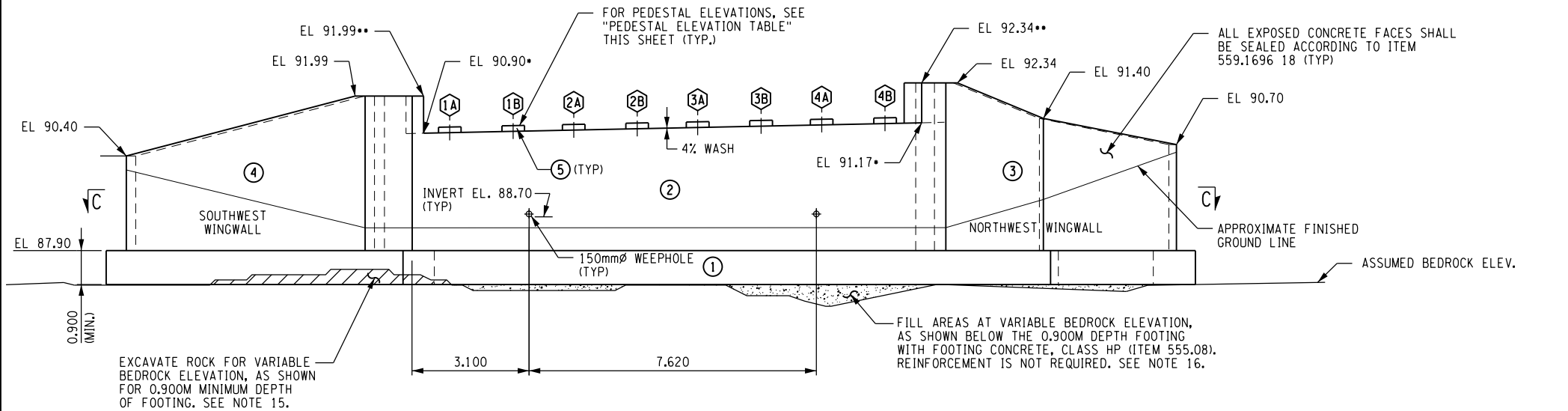


BEAM NUMBER	EL "A"	EL "B"	EL "C"	EL "D"
1A	91.016	91.027	91.021	91.032
1B	91.049	91.060	91.054	91.065
2A	91.081	91.092	91.086	91.097
2B	91.114	91.125	91.119	91.130
3A	91.146	91.157	91.151	91.162
3B	91.180	91.190	91.185	91.196
4A	91.212	91.222	91.217	91.227
4B	91.245	91.256	91.250	91.261



PLACEMENT	QUANTITY	ITEM NO.
①	93 CM	555.970200CA
②	69 CM	555.970100CA
③	12 CM	555.970100CA
④	10 CM	555.970100CA
⑤	0.5 CM	555.970100CA

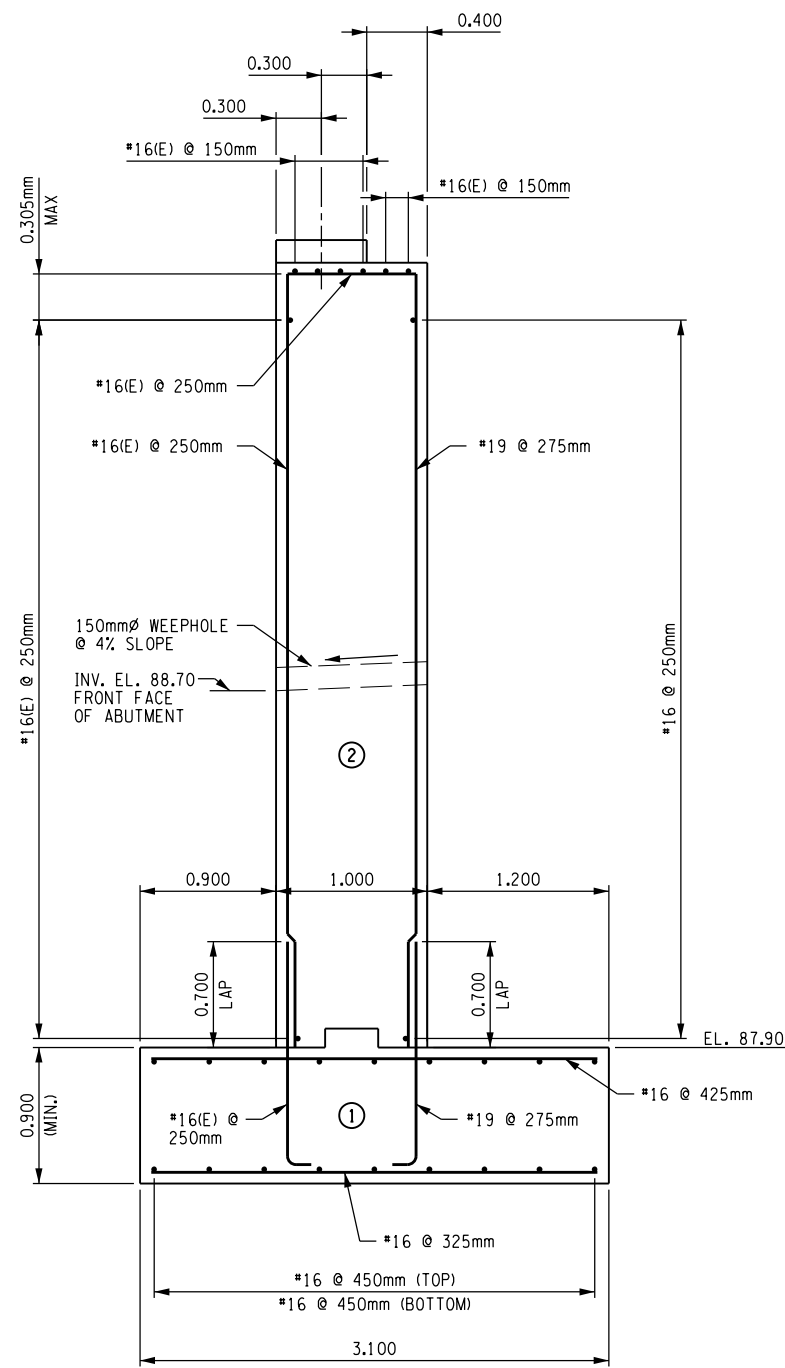
- NOTES:
- ① - INDICATES BEAM NUMBER.
  - ② - INDICATES CONCRETE POUR NUMBER.
  - \* - ELEVATION TAKEN AT FRONT FACE OF ABUTMENT.
  - \*\* - ELEVATIONS TAKEN AT THE FRONT SIDE OF ABUTMENT. TOP OF CONCRETE SHALL RECEIVE A STEEL TROWEL FINISH TO MATCH GRADE OF ROADWAY.
  - 25mm CHAMFERS ON ALL EXPOSED EDGES UNLESS OTHERWISE NOTED. FOR "CHAMFER DETAIL" SEE MISC. BRIDGE DETAILS DWG. ST-27.
  - FOR KEYWAY AND WATERSTOP DETAILS, SEE MISC. BRIDGE DETAILS DWG. ST-27.
  - FOR PEDESTAL REINFORCEMENT, SEE DWG. ST-8.
  - FOR FOUNDATION DESIGN NOTES, SEE THE GENERAL NOTES ON DWG. GEN-2.
  - FOR END DIAPHRAGM DETAILS, SEE DWG. ST-19 AND DWG. ST-20.
  - FOR ANCHOR DOWEL DETAILS, SEE DWG. ST-20.
  - DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
  - FOR SECTIONS A-A, B-B AND D-D SEE DWG. ST-8.
  - FOR SECTION C-C, SEE DWG. ST-9.
  - ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
  - ROCK EXCAVATION MAY BE REQUIRED DUE TO VARIATIONS IN THE BEDROCK ELEVATION. THE EXCAVATION SHALL BE INCLUDED UNDER STRUCTURE EXCAVATION (ITEM 206.01). NO SEPARATE OR DIRECT PAYMENT FOR ROCK EXCAVATION WILL BE MADE.
  - FOOTING CONCRETE, CLASS HP (ITEM 555.08) SHALL BE USED TO FILL AREAS WHERE BEDROCK VARIES BELOW THE PLANNED MIN. DEPTH FOOTING ELEVATION. THE QUANTITY PROVIDED IS FOR BIDDING PURPOSES ONLY. PAYMENT WILL BE BASED ON AS INSTALLED MEASURED QUANTITY.



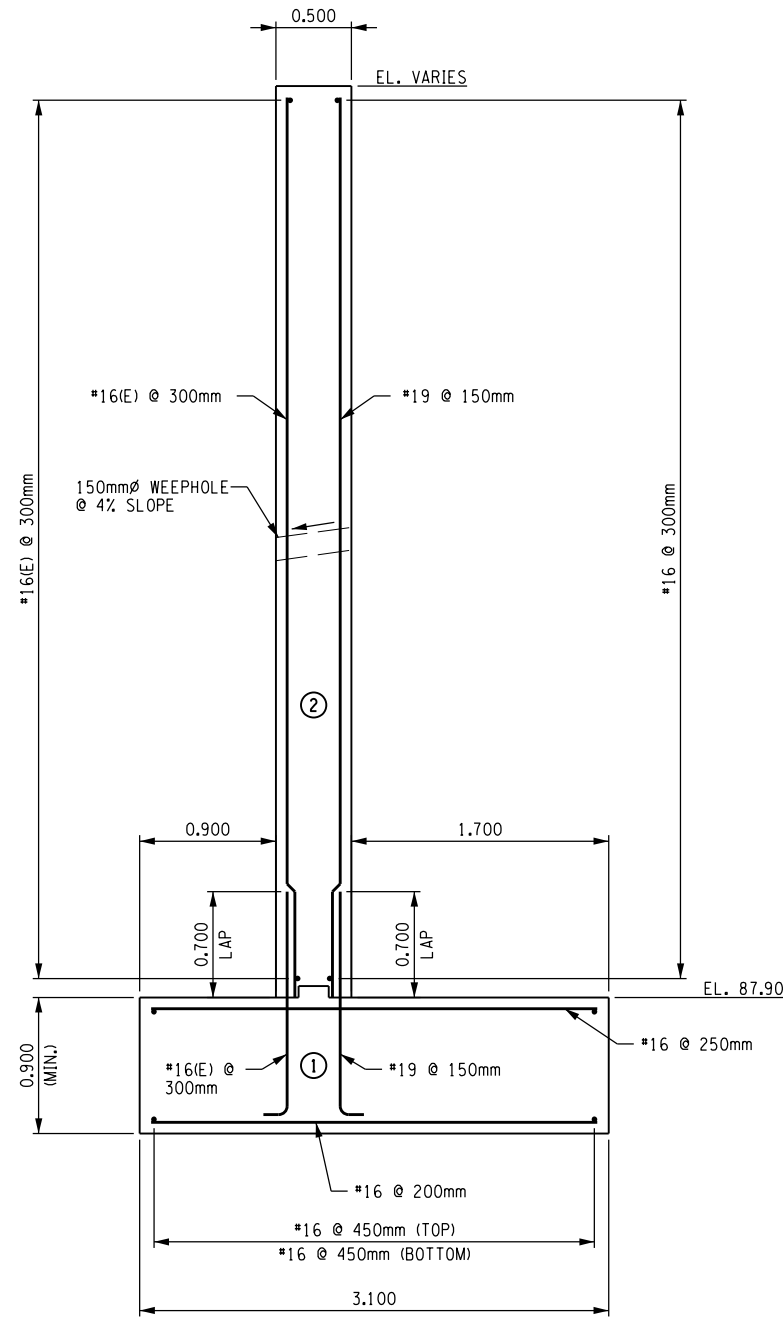
DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridge\CADD\2517 Prop WEST ABUTMENT.sht

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. DR. CK.	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							WEST ABUTMENT PLAN AND ELEVATION	SCALE: 1:75	DRAWING NO: <b>ST-7</b> SHEET 23

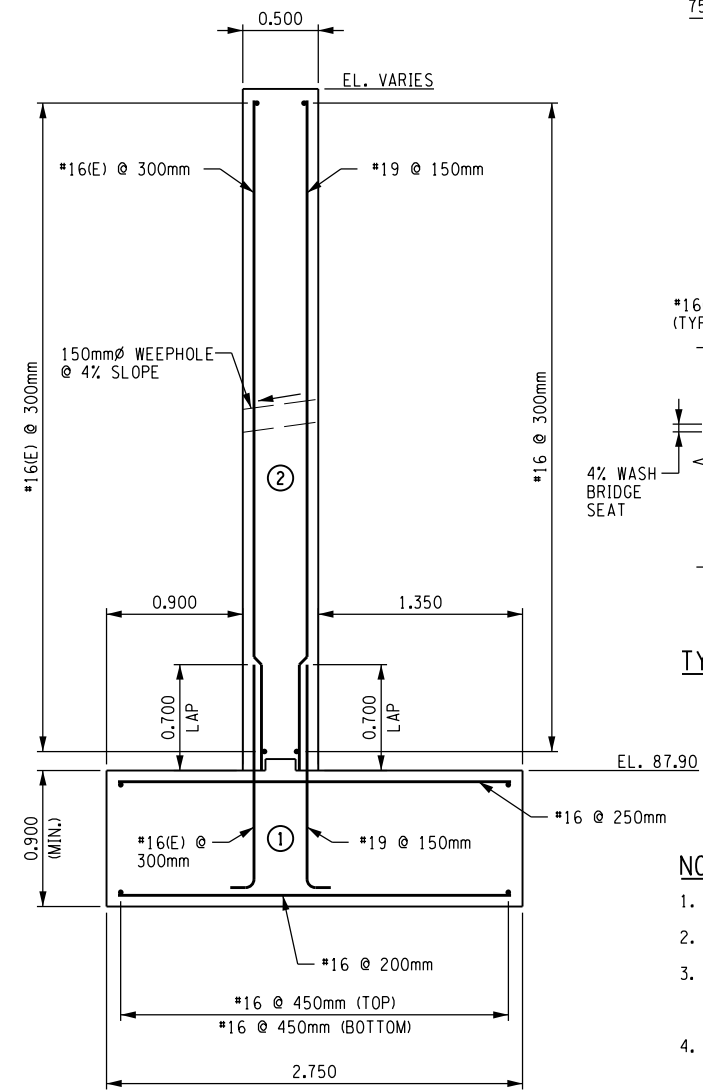
DATE PLOTTED: 8/18/2016  
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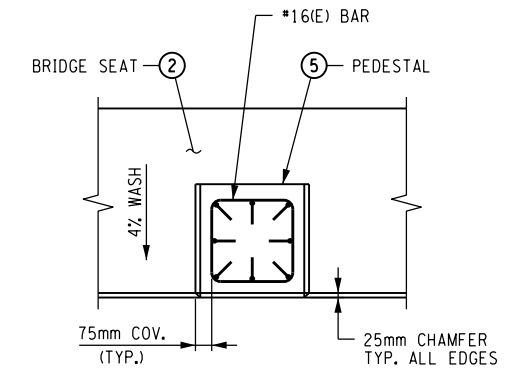
SECTION A-A WEST ABUTMENT SECTION  
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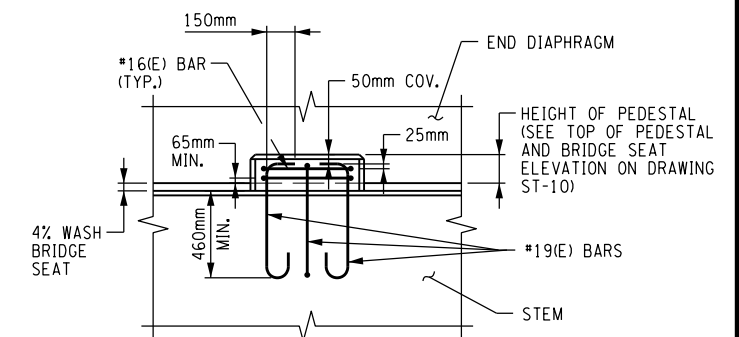
SECTION B-B SOUTHWEST WINGWALL SECTION  
 NOT TO SCALE



SECTION D-D NORTHWEST WINGWALL SECTION  
 NOT TO SCALE



TYPICAL PEDESTAL PLAN  
 NOT TO SCALE



TYPICAL PEDESTAL ELEVATION  
 NOT TO SCALE

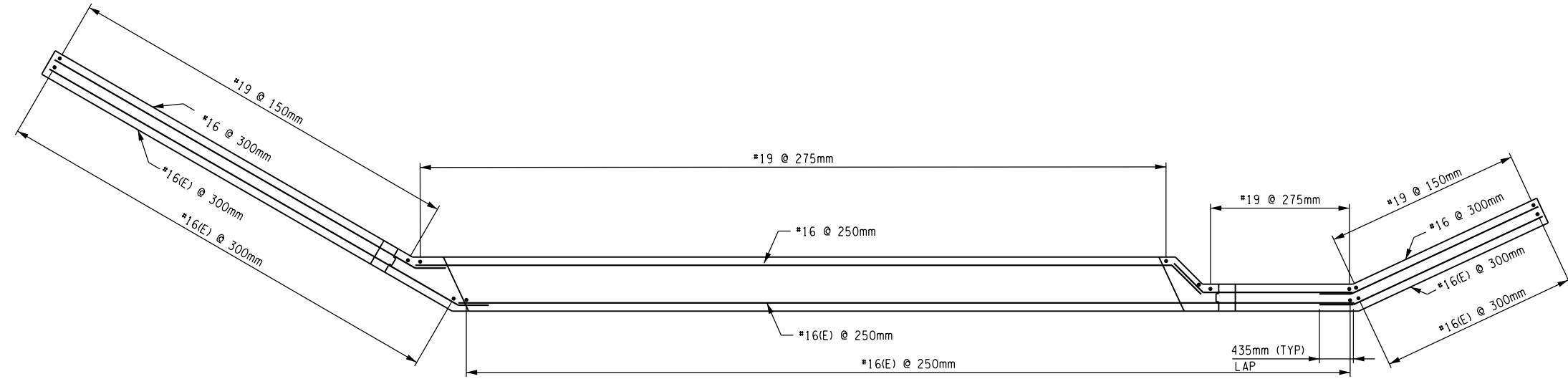
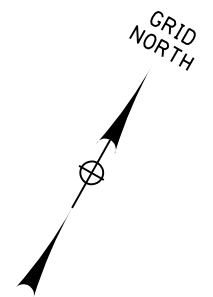
NOTES:

1. (NO) - INDICATES CONCRETE POUR
2. (E) DENOTES EPOXY COATED BARS.
3. 25mm CHAMFERS ON ALL EXPOSED EDGES (U.O.N.), FOR "CHAMFER DETAIL" SEE MISCELLANEOUS BRIDGE DETAILS DWG. ST-27.
4. FOR KEYWAY AND WATERSTOP DETAILS, SEE MISCELLANEOUS BRIDGE DETAILS DWG. ST-27.
5. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 75mm UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 50mm UNLESS OTHERWISE NOTED.
6. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
7. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

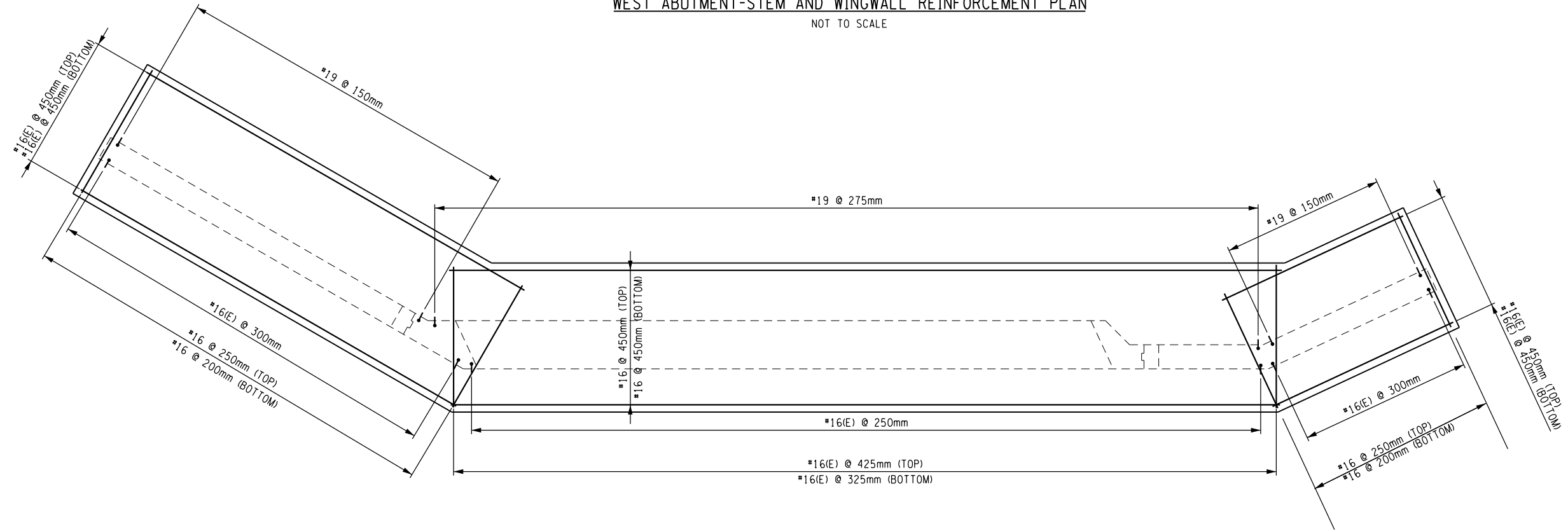
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. TJA CCF DR. AL CCF CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							DETAILS: WEST ABUTMENT DETAILS (1 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-8</b> SHEET 24





SECTION C-C  
WEST ABUTMENT-STEM AND WINGWALL REINFORCEMENT PLAN  
NOT TO SCALE



WEST ABUTMENT - FOOTING REINFORCEMENT PLAN  
NOT TO SCALE

**NOTES:**

- (E) DENOTES EPOXY COATED BARS.
- COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 75MM UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 50MM UNLESS OTHERWISE NOTED.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

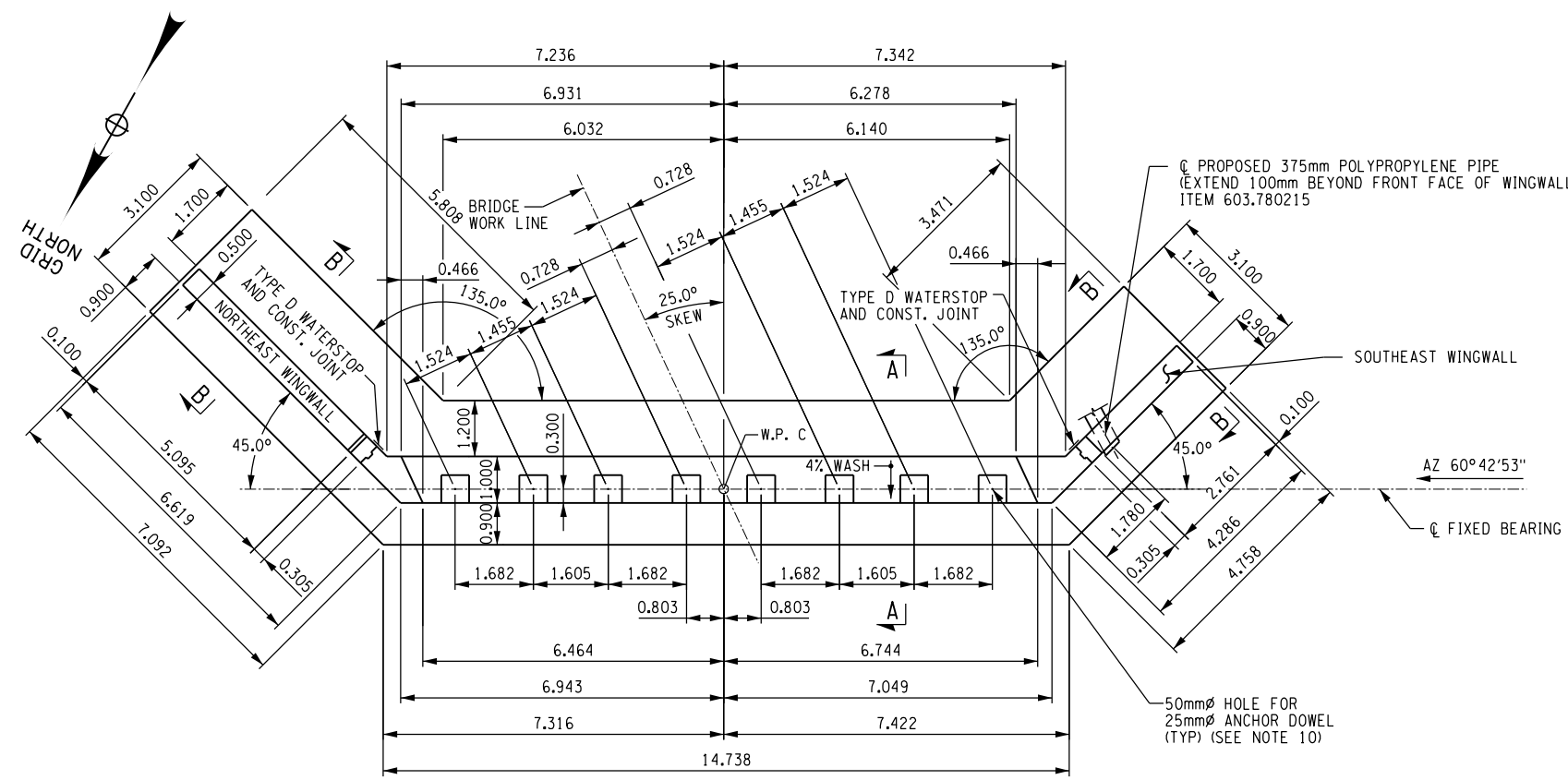
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 Prop WEST ABUTMENT DETAILS 2 OF 2.sht

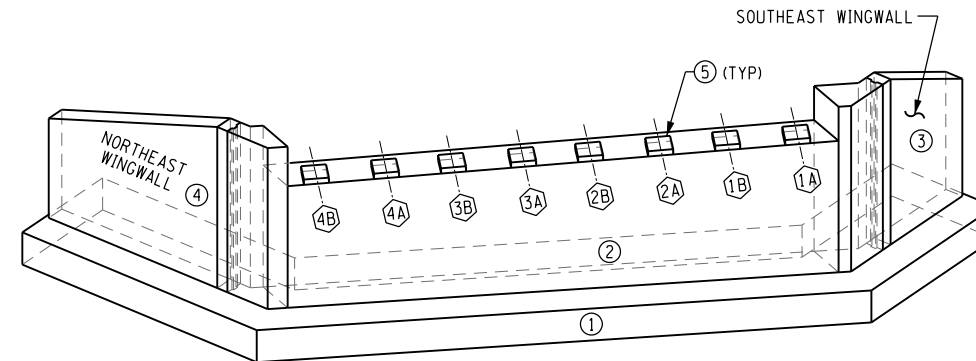
	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
	DES. TJA CCF	DR. AL CCF	CK. GMZ	DATE: MAY 2016			PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820	
							DETAILS: WEST ABUTMENT DETAILS (2 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-9</b> SHEET 25

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
①	79 CM	555.970200CA
②	42 CM	555.970100CA
③	10 CM	555.970100CA
④	5 CM	555.970100CA
⑤	1 CM	555.970100CA

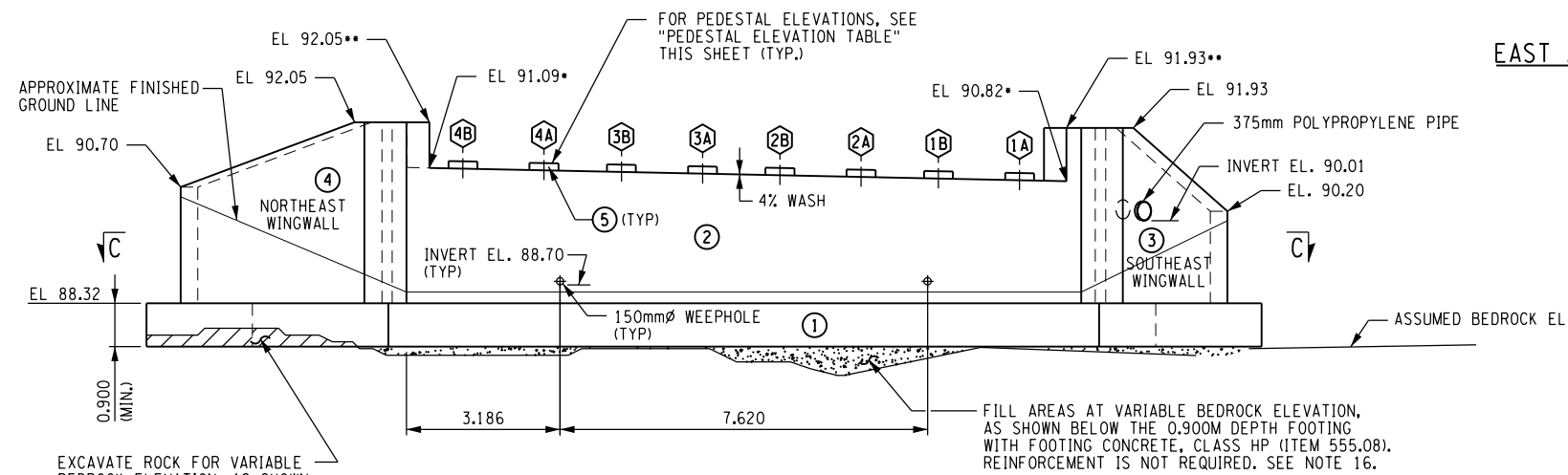
PEDESTAL ELEVATION TABLE				
BEAM NUMBER	EL "A"	EL "B"	EL "C"	EL "D"
1A	91.113	91.102	91.107	91.097
1B	91.146	91.135	91.141	91.130
2A	91.178	91.167	91.173	91.162
2B	91.211	91.200	91.206	91.195
3A	91.243	91.232	91.238	91.227
3B	91.276	91.265	91.271	91.260
4A	91.208	91.297	91.303	91.292
4B	91.341	91.330	91.336	91.325



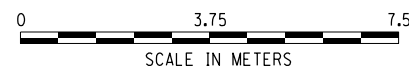
**EAST ABUTMENT PLAN VIEW**  
SCALE: 1:75



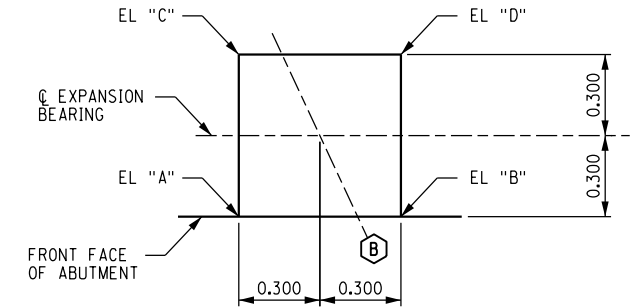
**EAST ABUTMENT - ISOMETRIC VIEW**  
NOT TO SCALE



**EAST ABUTMENT ELEVATION**  
SCALE: 1:75



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED



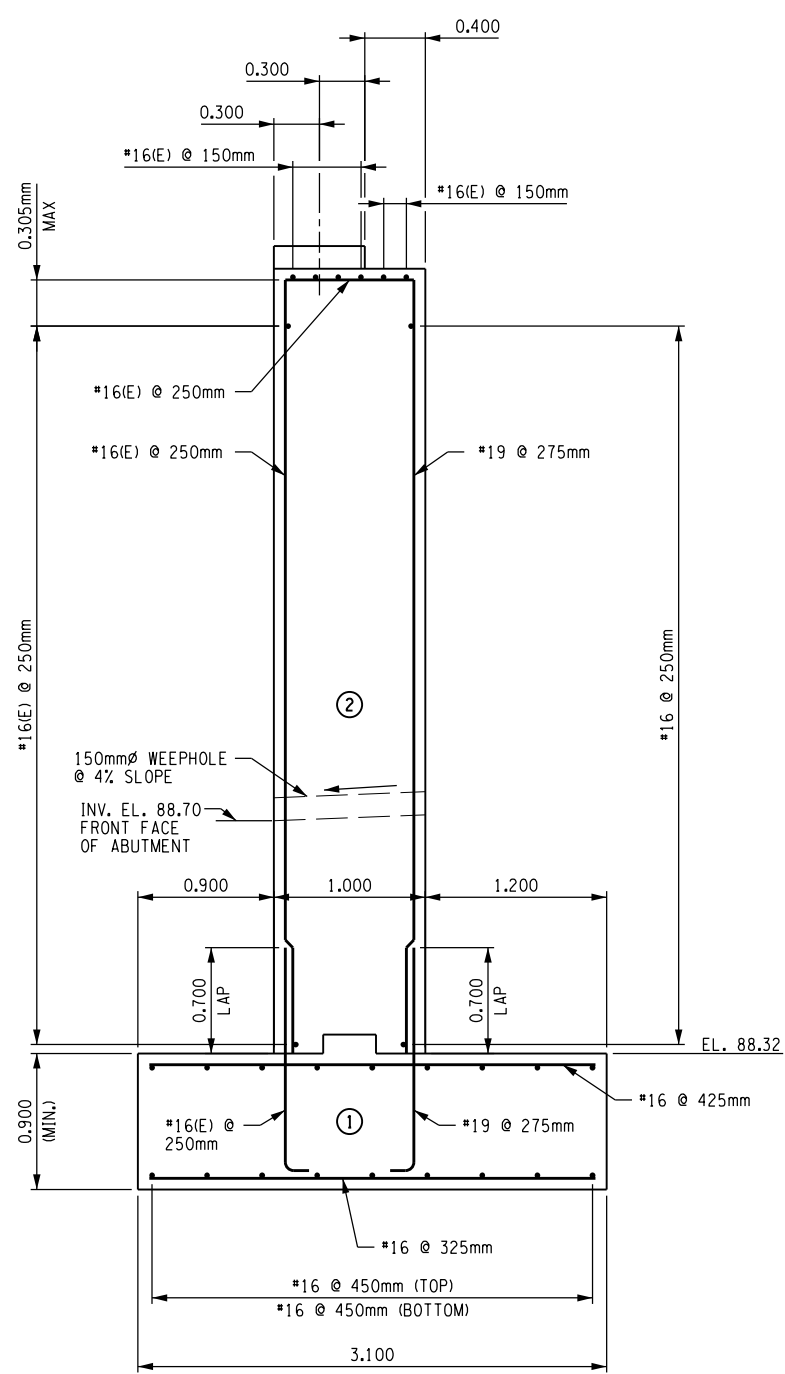
**TYPICAL PEDESTAL PLAN**  
NOT TO SCALE

**NOTES:**

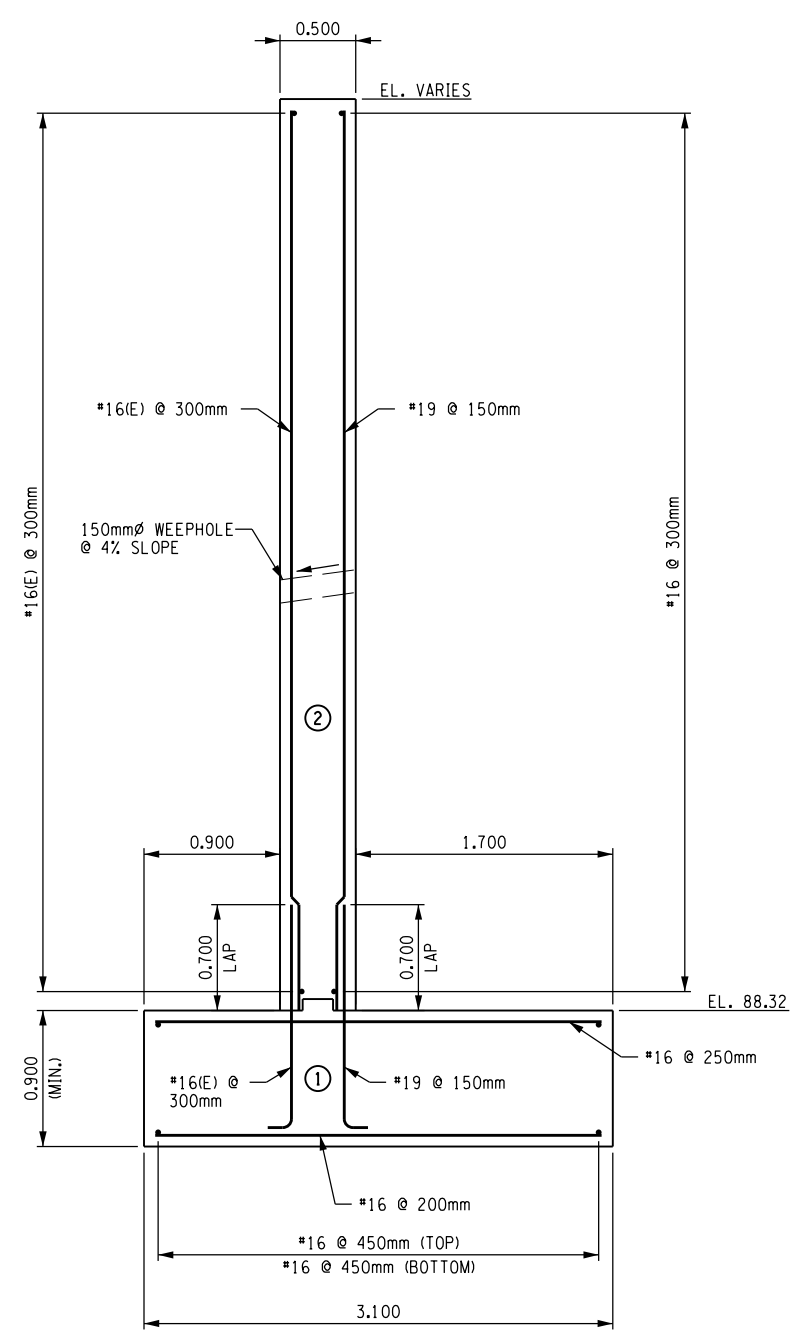
- ① - INDICATES BEAM NUMBER.
- ② - INDICATES CONCRETE POUR NUMBER.
- - ELEVATION TAKEN AT FRONT FACE OF ABUTMENT.
- - ELEVATIONS TAKEN AT THE FRONT SIDE OF ABUTMENT. TOP OF CONCRETE SHALL RECEIVE A STEEL TROWEL FINISH TO MATCH GRADE OF ROADWAY.
- 25mm CHAMFERS ON ALL EXPOSED EDGES UNLESS OTHERWISE NOTED. FOR "CHAMFER DETAIL" SEE MISC. BRIDGE DETAILS DWG. ST-27.
- FOR KEYWAY AND WATERSTOP DETAILS, SEE MISC. BRIDGE DETAILS DWG. ST-27.
- FOR PEDESTAL REINFORCEMENT, SEE DWG. ST-11.
- FOR FOUNDATION DESIGN NOTES, SEE THE GENERAL NOTES ON DWG. GEN-2.
- FOR END DIAPHRAGM DETAILS, SEE DWG. ST-19 AND DWG. ST-20.
- FOR ANCHOR DOWEL DETAILS, SEE DWG. ST-20.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- FOR SECTIONS A-A, AND B-B SEE DWG. ST-11.
- FOR SECTION C-C, SEE DWG. ST-12.
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- ROCK EXCAVATION MAY BE REQUIRED DUE TO VARIATIONS IN THE BEDROCK ELEVATION. THE EXCAVATION SHALL BE INCLUDED UNDER STRUCTURE EXCAVATION (ITEM 206.01). NO SEPARATE OR DIRECT PAYMENT FOR ROCK EXCAVATION WILL BE MADE.
- FOOTING CONCRETE, CLASS HP (ITEM 555.08) SHALL BE USED TO FILL AREAS WHERE BEDROCK VARIES BELOW THE PLANNED MIN. DEPTH FOOTING ELEVATION. THE QUANTITY PROVIDED IS FOR BIDDING PURPOSES ONLY. PAYMENT WILL BE BASED ON AS INSTALLED MEASURED QUANTITY.

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridge\CADD\2517 Prop EAST ABUTMENT.sht

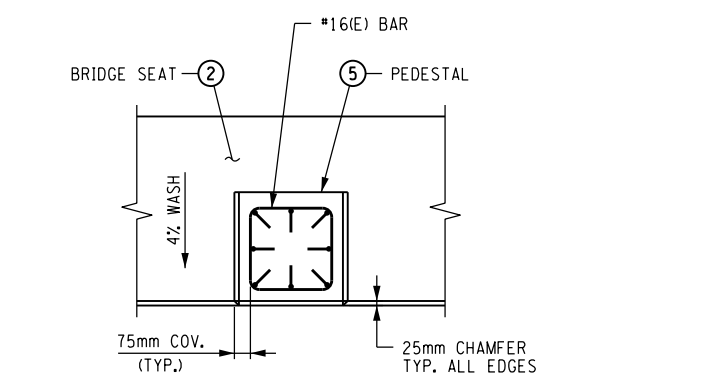
GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE			<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
DES.	DR.	CK.				<b>EAST ABUTMENT</b> <b>PLAN AND ELEVATION</b>		SCALE: 1:75	DRAWING NO: <b>ST-10</b>
									SHEET 26



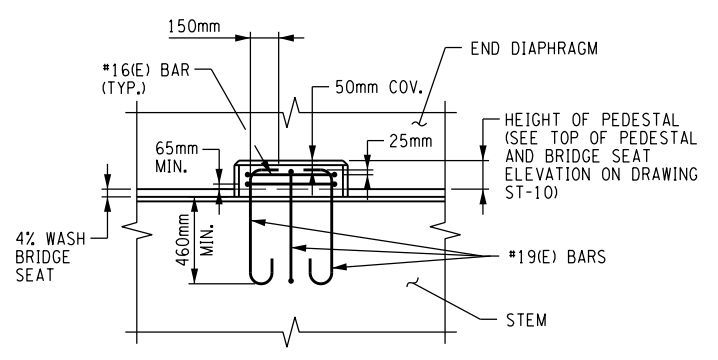
SECTION A-A EAST ABUTMENT SECTION  
NOT TO SCALE



SECTION B-B NORTHEAST WINGWALL SECTION  
NOT TO SCALE



TYPICAL PEDESTAL PLAN  
NOT TO SCALE



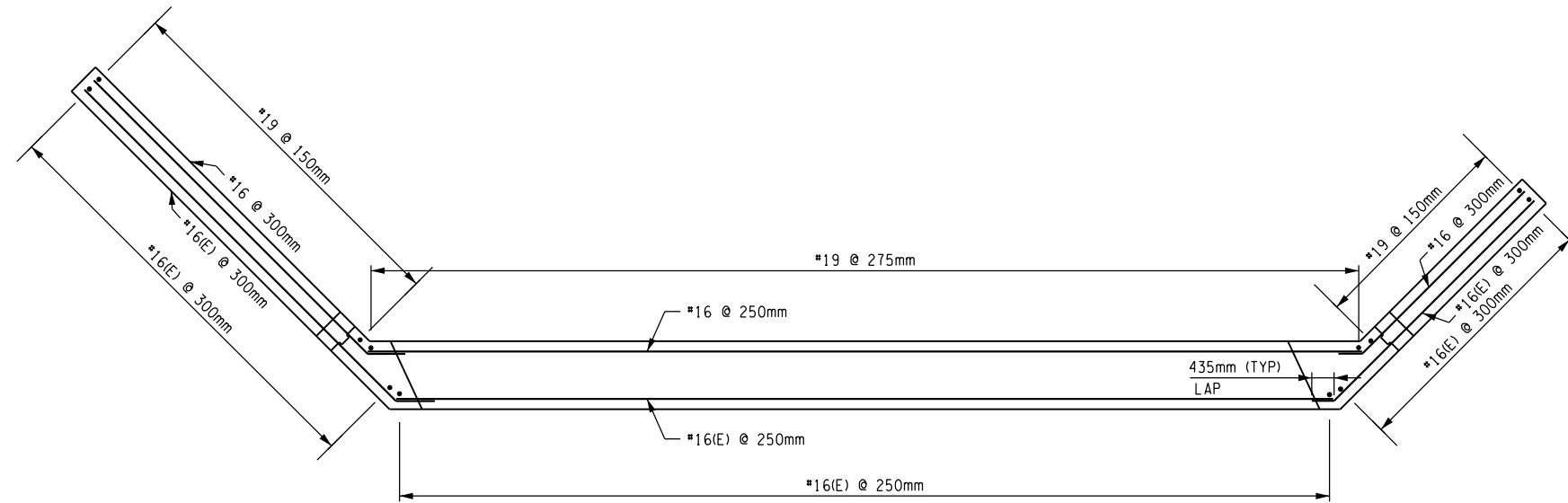
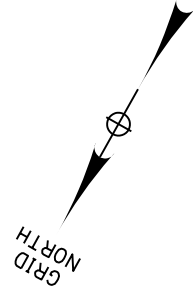
TYPICAL PEDESTAL ELEVATION  
NOT TO SCALE

- NOTES:**
- (N) - INDICATES CONCRETE POUR
  - (E) DENOTES EPOXY COATED BARS.
  - 25mm CHAMFERS ON ALL EXPOSED EDGES (U.O.N.), FOR "CHAMFER DETAIL" SEE MISCELLANEOUS BRIDGE DETAILS DWG. ST-27.
  - FOR KEYWAY AND WATERSTOP DETAILS, SEE MISCELLANEOUS BRIDGE DETAILS DWG. ST-27.
  - COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 75mm UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 50mm UNLESS OTHERWISE NOTED.
  - DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
  - ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 Prop EAST ABUTMENT DETAILS 1 OF 2.sht

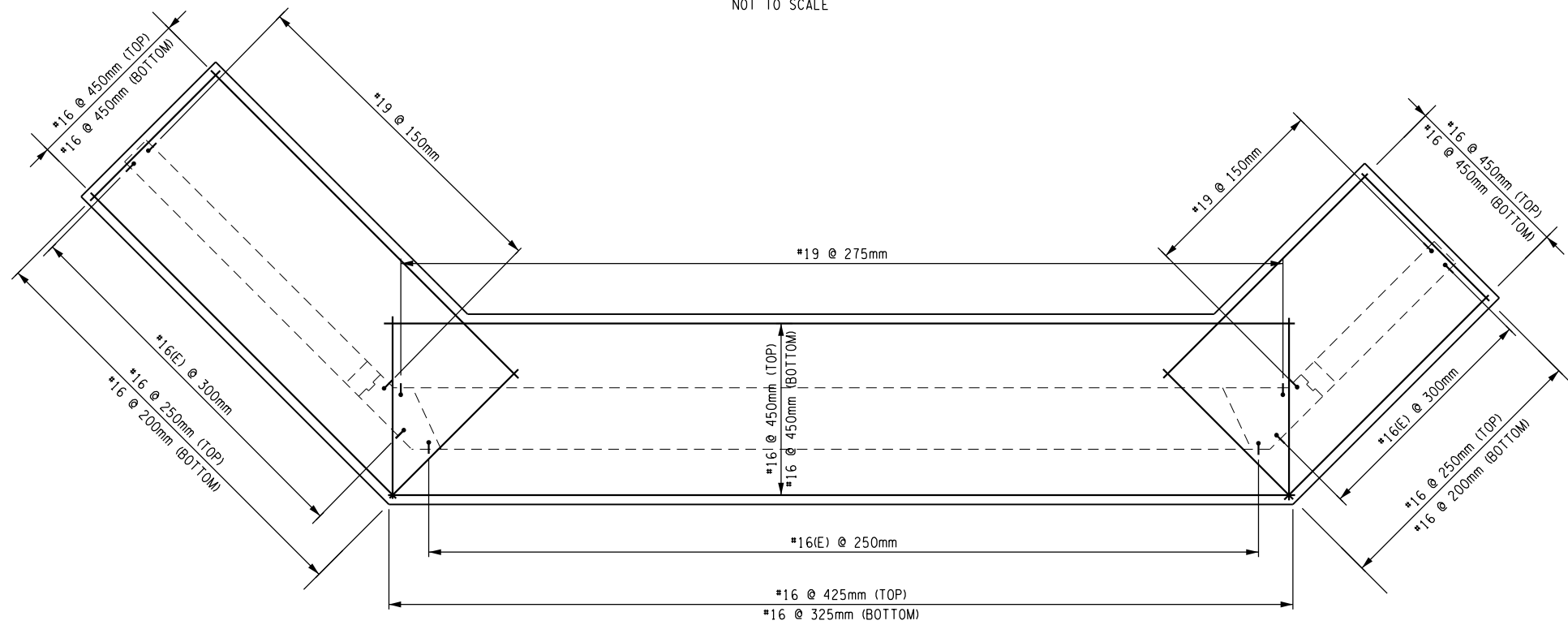
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. TJA CCF DR. AL CCF CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							DETAILS: EAST ABUTMENT DETAILS (1 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-11</b> SHEET 27



SECTION C-C EAST ABUTMENT  
STEM AND WINGWALL REINFORCEMENT PLAN

NOT TO SCALE



EAST ABUTMENT - FOOTING REINFORCEMENT PLAN

NOT TO SCALE

**NOTES:**

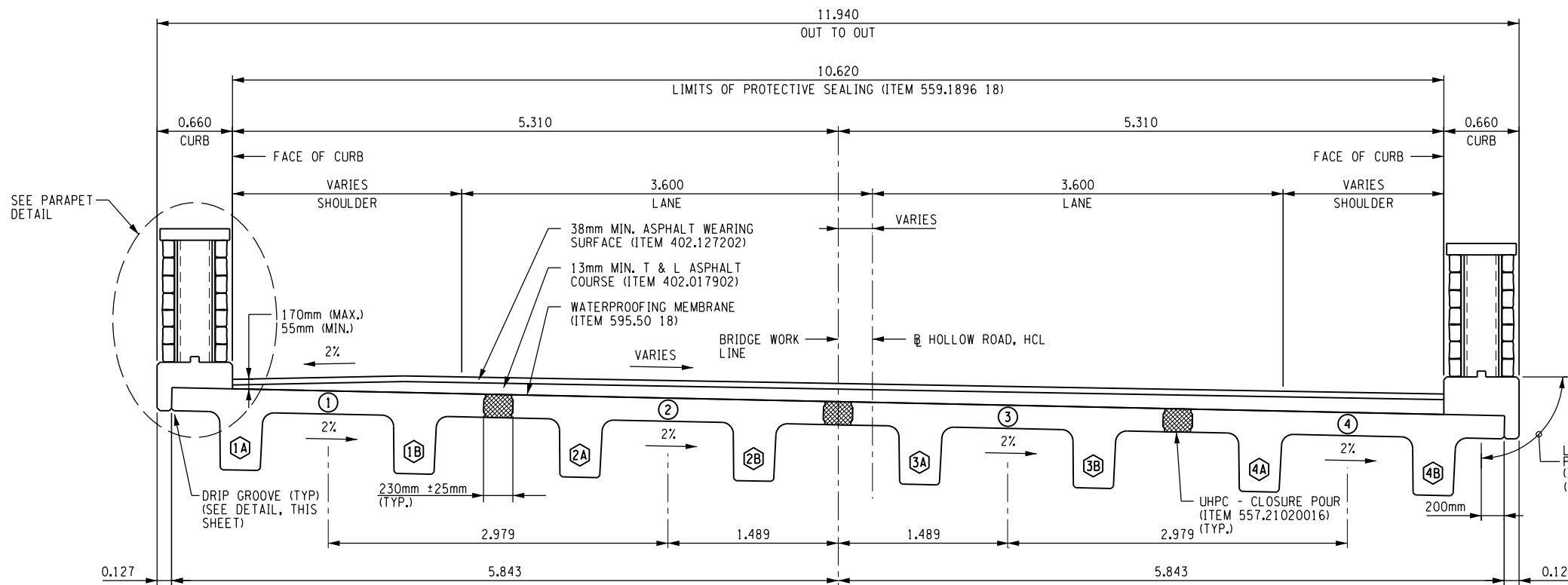
- (E) DENOTES EPOXY COATED BARS.
- COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 75MM UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 50MM UNLESS OTHERWISE NOTED.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 Prop EAST ABUTMENT DETAILS 2 OF 2.dwg

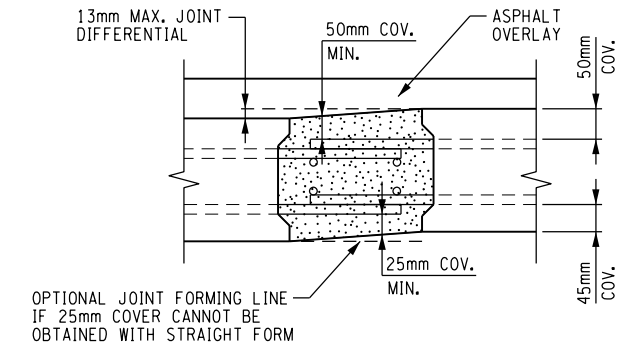
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY DEPARTMENT OF PUBLIC WORKS</b>				
							DATE: MAY 2016	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820		
						DES. TJA CCF	DR. AL CCF	CK. GMZ	DETAILS: EAST ABUTMENT DETAILS (2 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-12</b> SHEET 28

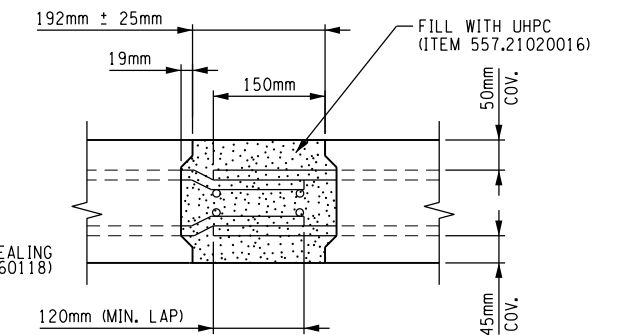




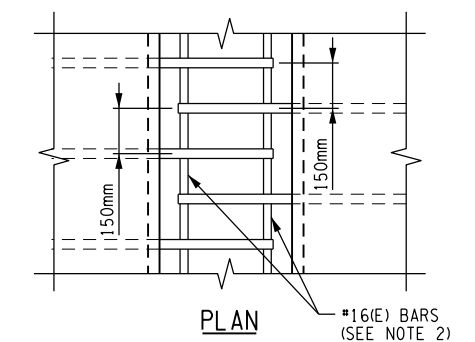
TRANSVERSE BRIDGE SECTION  
NOT TO SCALE



CAMBER DIFFERENTIAL SECTION

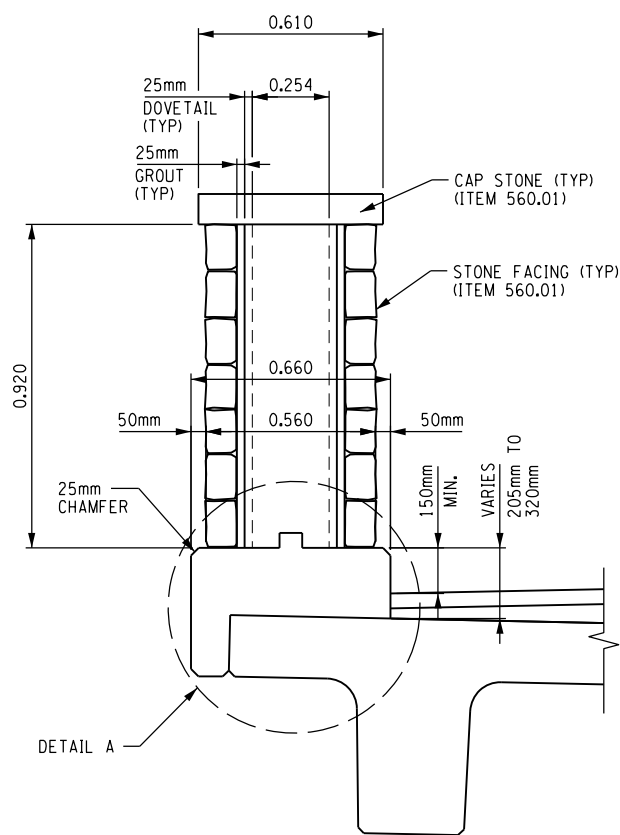


SECTION

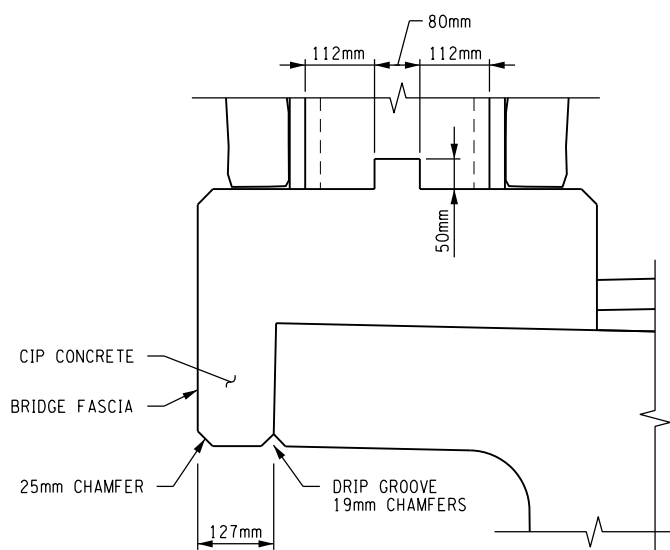


PLAN #16(E) BARS (SEE NOTE 2)

UHPC CLOSURE POUR DETAILS  
NOT TO SCALE



PARAPET DETAIL  
NOT TO SCALE



DETAIL A  
NOT TO SCALE

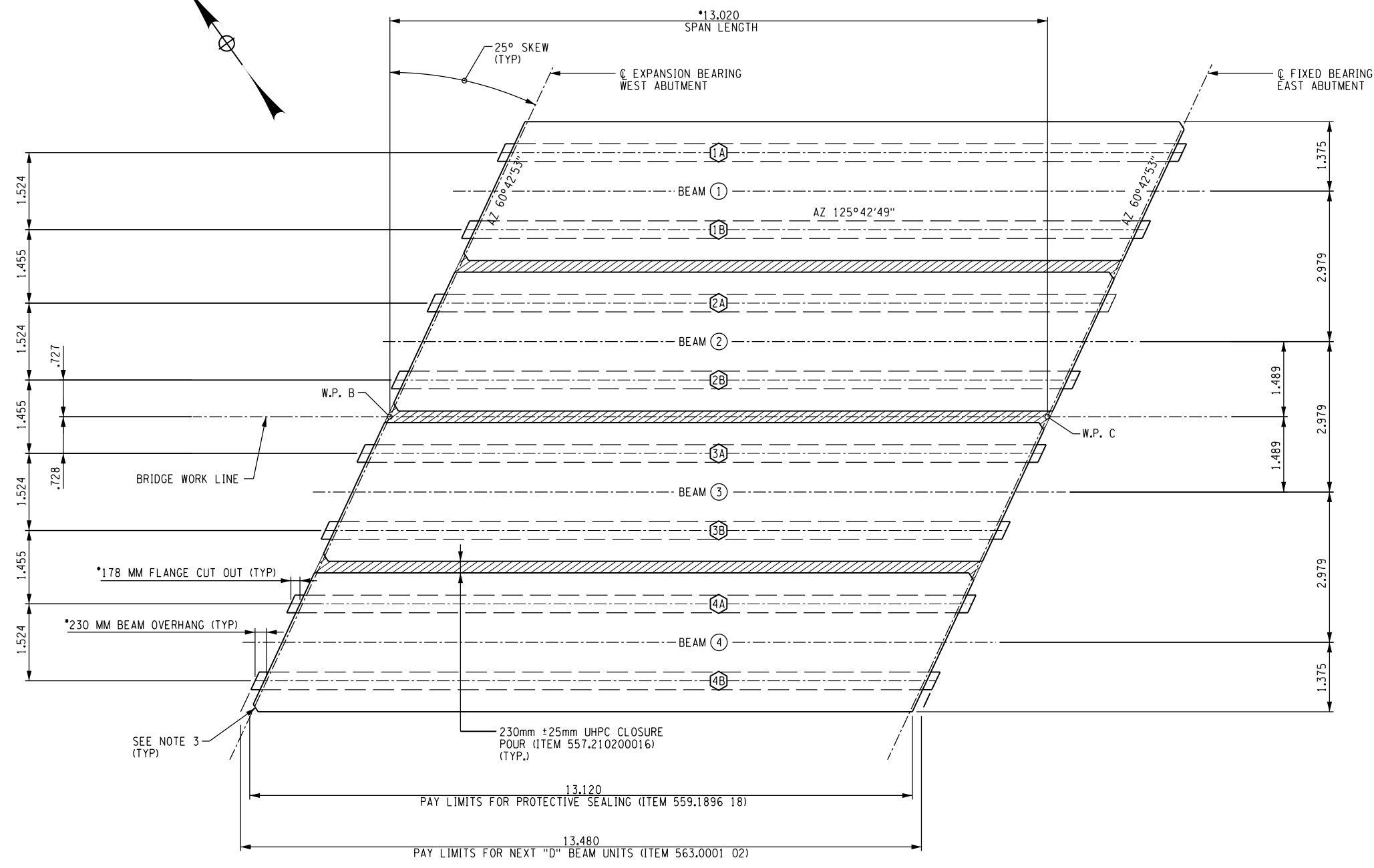
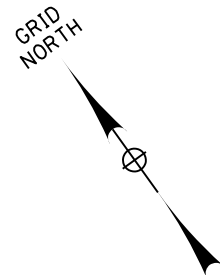
NOTES:

- (E) DENOTES EPOXY COATED BARS.
- \*16(E) LONGITUDINAL BARS IN THE CLOSURE POUR SHALL BE INSTALLED IN 3 METER BAR LENGTHS WITH A 840mm MINIMUM ALTERNATE LAP LENGTH.
- FOR BARRIER LAYOUT AND DETAILS, SEE DWGS. ST-24.
- CONNECTOR REINFORCING TO BE PLACED ALONG THE ENTIRE SPAN WITH 150mm SPACING AND PLACED PERPENDICULAR TO THE BEAM EDGE. BEND CONNECTOR REINFORCING WITHIN THE FLANGE IN ACUTE CORNERS TO PRODUCE A SQUARE PROJECTION.
- METHOD OF FORMING CLOSURE POUR TO BE DETERMINED BY THE CONTRACTOR. FORMS SHALL BE REMOVABLE AND SHALL ACCOMMODATE ANY DIFFERENTIAL CAMBER. FORM SUPPORTS SHALL NOT PENETRATE THROUGH TOP OF POUR UNLESS APPROVED BY THE ENGINEER.
- INTERIOR FACE OF BEAM KEYS SHALL HAVE AN EXPOSED AGGREGATE SURFACE TO IMPROVE GROUT BOND.
- ULTRA HIGH PERFORMANCE CONCRETE (UHPC) JOINT NOTES:
  - OVERFILLING OF THE JOINTS MAY BE NECESSARY DUE TO THE POTENTIAL FOR THE UHPC TO SETTLE.
  - THE FORM PLACED ALONG THE BOTTOM OF THE UHPC JOINT SHALL BE WATER TIGHT TO PREVENT LEAKAGE DURING PLACEMENT.
  - METHOD OF FORMING SHALL BE SUBMITTED WITH THE BEAM INSTALLATION DRAWINGS FOR REVIEW AND APPROVAL BY THE ENGINEER.
  - ALL FORMWORK SHALL BE REMOVED AFTER UHPC JOINT MATERIAL HAS REACHED 12.0 KSI COMPRESSIVE STRENGTH.
  - SLEEVES, IF USED, SHALL BE FILLED WITH NON-SHRINK GROUT. COST TO BE INCLUDED IN ITEM 557.21020016.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- (X) - INDICATES BEAM NUMBER.
- (XX) - INDICATES BEAM WEB NUMBER.

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridges\CADD\2517 Prop TRANSVERSE SECTION.sht

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. TJA CCF    DR. AL CCF    CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							<b>TRANSVERSE SECTION</b>	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-14</b> SHEET 30



**FRAMING PLAN**  
SCALE: 1:50

DESIGN LOAD TABLE				
		UNIT	REACTIONS AT ABUTMENTS (KN)	MAX MOMENT MIDSPAN (KN-M)
EXTERIOR	D.L.	BEAM	142.8	464.8
	S.D.L.	BARRIER & CURB	65.9	214.5
	L.L.	ASPHALT & FUTURE W.S.	68.2	222.1
INTERIOR	D.L.	BEAM	142.8	646.8
	S.D.L.	BARRIER & CURB	65.9	214.5
	L.L.	ASPHALT & FUTURE W.S.	68.2	222.1
	L.L.	HL-93	389.1	1006.5

CAMBER TABLE (AT MIDSPAN) (MM)			EXTERIOR	INTERIOR
CAMBER DUE TO PRESTRESSED FORCE AND BEAM DL (WITHOUT GROWTH) AT TRANSFER	↑		50.043	50.043
CAMBER DUE TO CLOSURE POUR DEAD LOAD	↓		-0.415	-0.829
DEFLECTION DUE TO SUPERIMPOSED DL AND FWS	↓		-15.731	-15.731



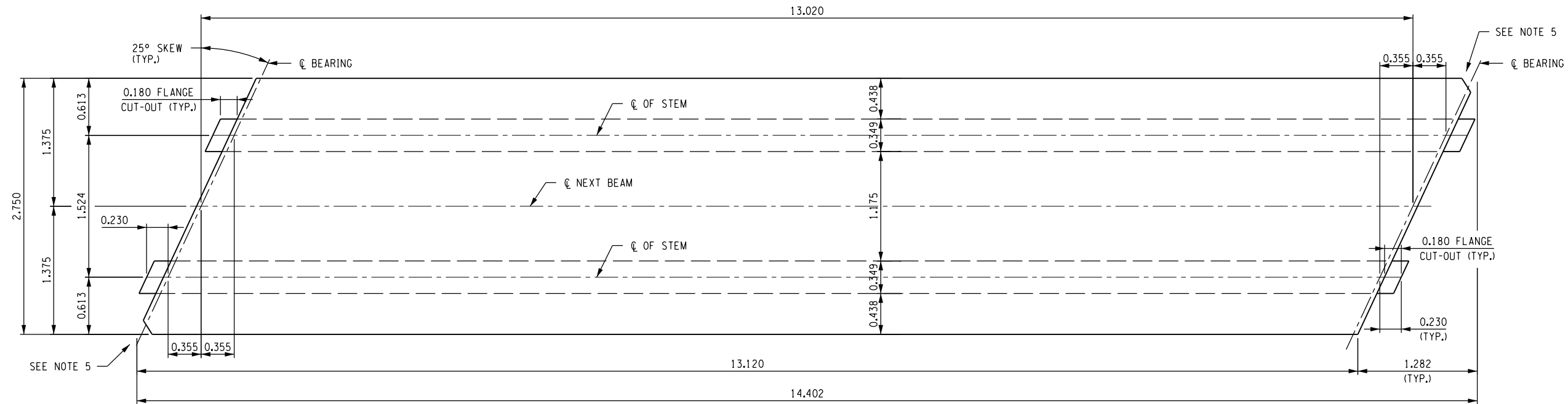
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

**NOTES:**

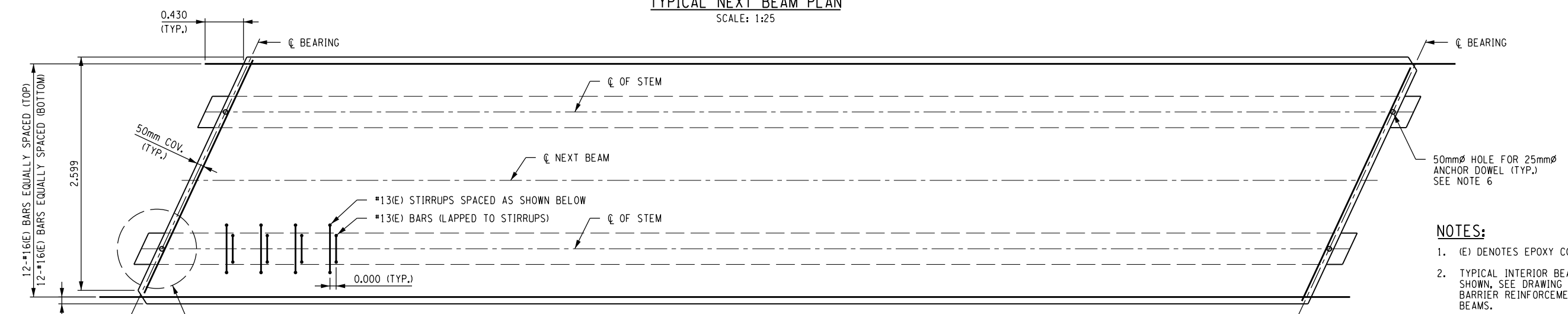
- - DENOTES DIMENSION GIVEN ALONG BRIDGE WORK LINE.
- SEE DRAWING ST-17 FOR ADDITIONAL NEXT BEAM NOTES. REFER TO GENERAL NOTES ON GEN-3 FOR NEXT BEAM REQUIREMENTS.
- CLIP ACUTE CORNERS OF FLANGE 150 MM BY 150 MM TO MINIMIZE DAME DURING FABRICATION, TRANSPORTATION, AND ERECTION.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridges\CADD\2517 Prop FRAMING PLAN.sht

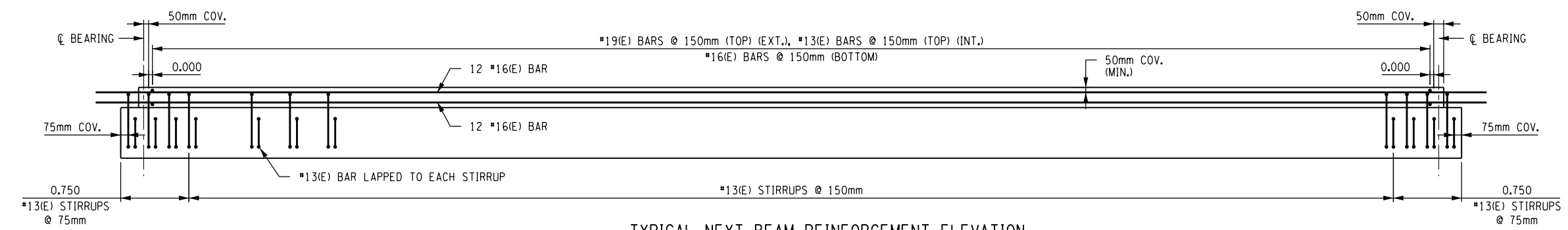
GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE			<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
DES.	DR.	CK.				NEXT BEAM FRAMING PLAN		SCALE: 1:50	DRAWING NO: <b>ST-15</b>
									SHEET 31



TYPICAL NEXT BEAM PLAN  
SCALE: 1:25

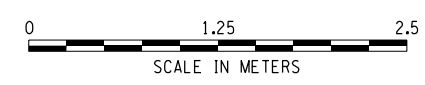


TYPICAL NEXT BEAM REINFORCEMENT PLAN  
SCALE: 1:25



TYPICAL NEXT BEAM REINFORCEMENT ELEVATION  
SCALE: 1:25

- NOTES:**
- (E) DENOTES EPOXY COATING
  - TYPICAL INTERIOR BEAM REINFORCEMENT SHOWN, SEE DRAWING ST-17 FOR ADDITIONAL BARRIER REINFORCEMENT AT THE FASCIA BEAMS.
  - FOR BEAM END REINFORCEMENT DETAILS, SEE DRAWING ST-18.
  - FOR ADDITIONAL NEXT BEAM NOTES, SEE DRAWING ST-17, REFER TO GENERAL NOTES ON GEN-3 FOR NEXT BEAM REQUIREMENTS.
  - CLIP ACUTE CORNERS OF FLANGE 150mm x 150mm TO MINIMIZE DAMAGE DURING FABRICATION, TRANSPORTATION, AND ERECTION.
  - FOR ANCHOR DOWEL DETAILS, SEE DWG. ST-20.
  - DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
  - #13(E) FLANGE CONNECTOR BARS NOT SHOWN FOR CLARITY IN THE REINFORCEMENT PLAN AND ELEVATION VIEWS. SEE DWG. ST-17 FOR DETAILS

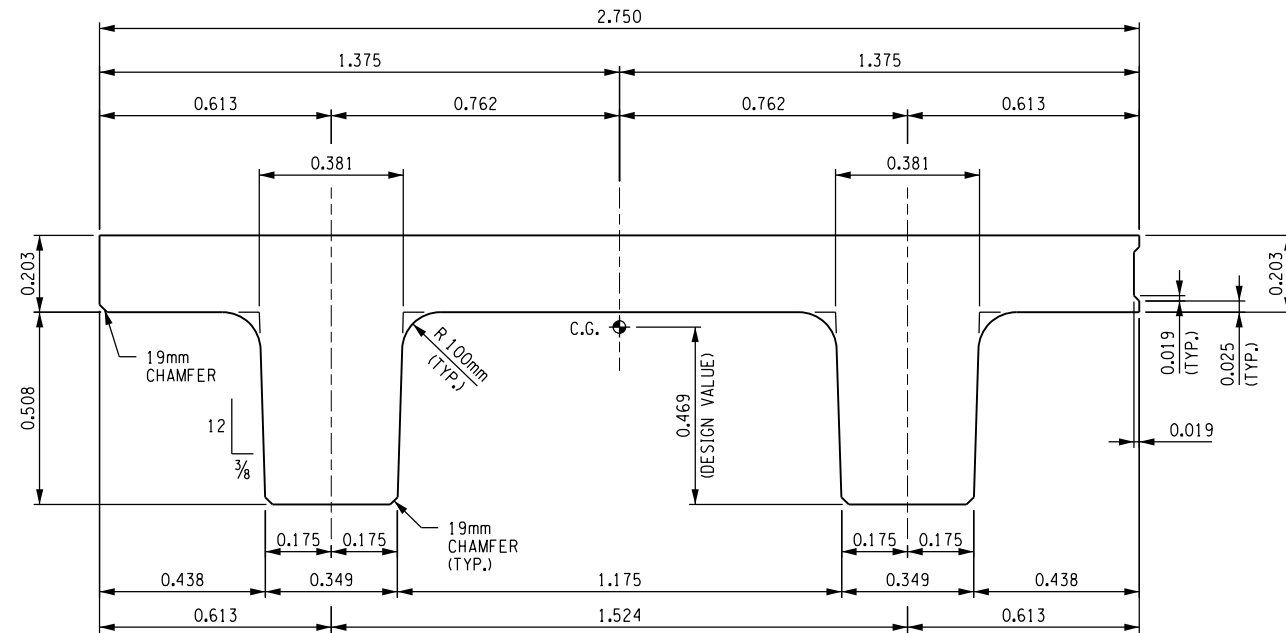


ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

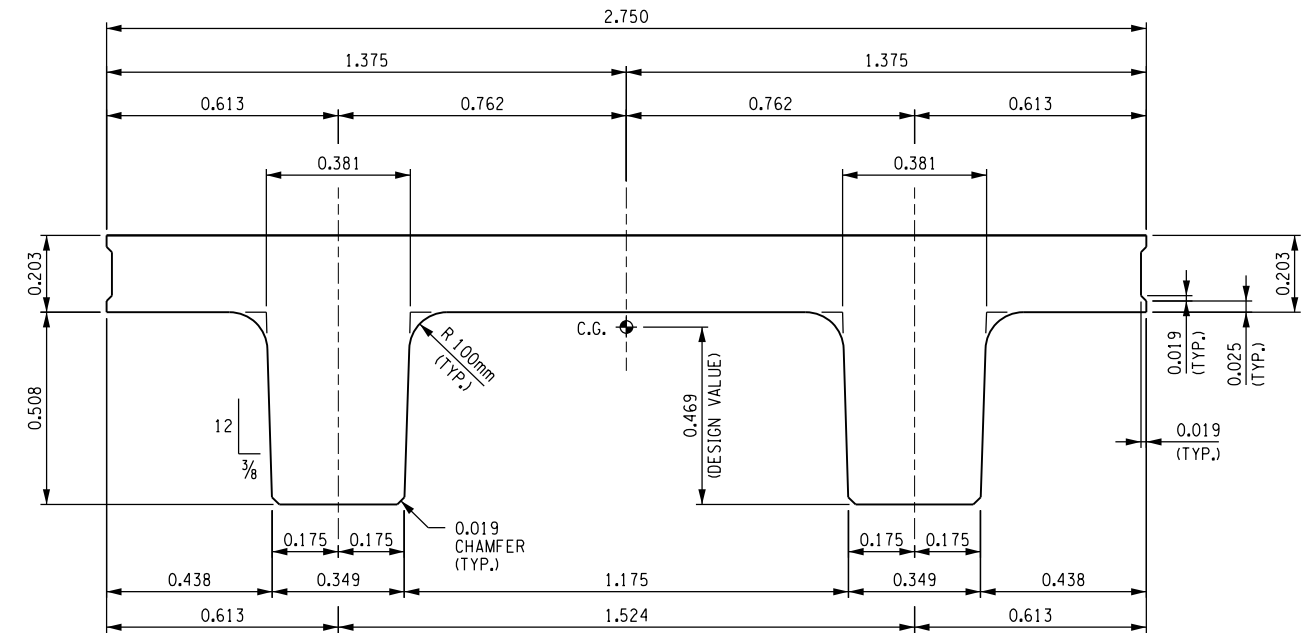
DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 Prop NEXT BEAM DETAILS 1 OF 3.sht

GINA M. ZAMISKIE		NO.		SUBMITTAL / REVISION		APPD.		DATE				<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
										DATE: MAY 2016		PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	
										DES. DR. CK.		BIN 3342820	
										DETAILS: NEXT BEAM DETAILS (1 OF 3)		SCALE: 1:25 DRAWING NO: <b>ST-16</b> SHEET 32	

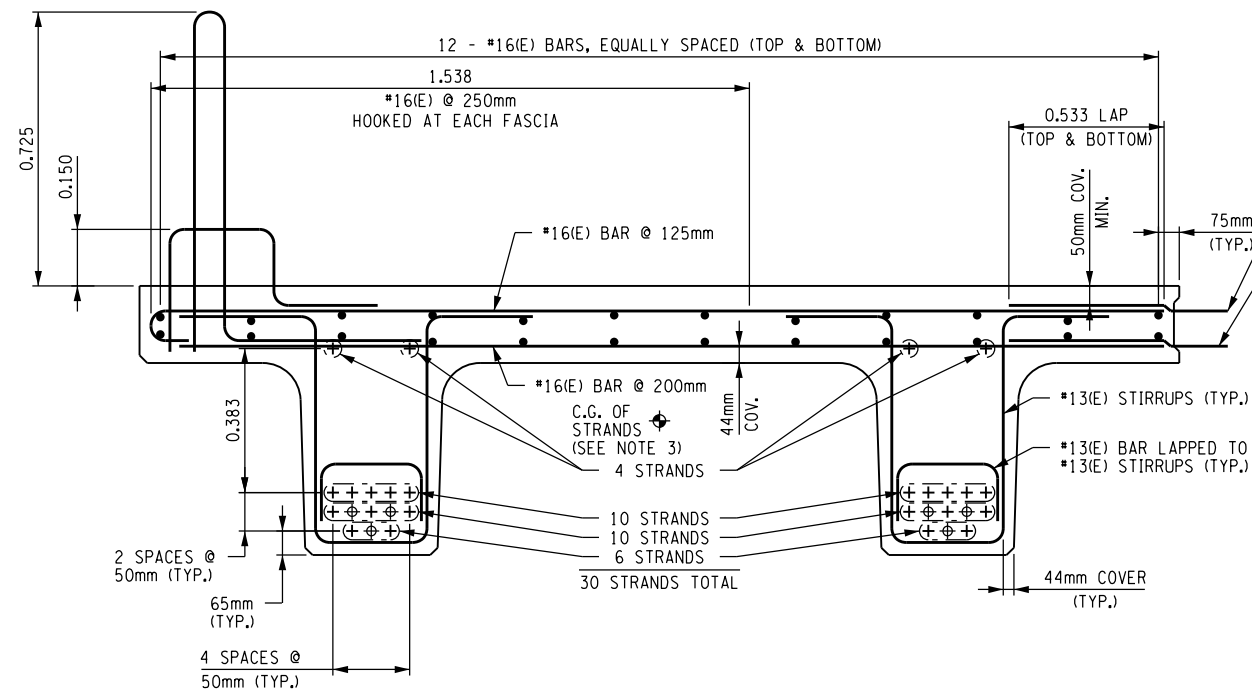




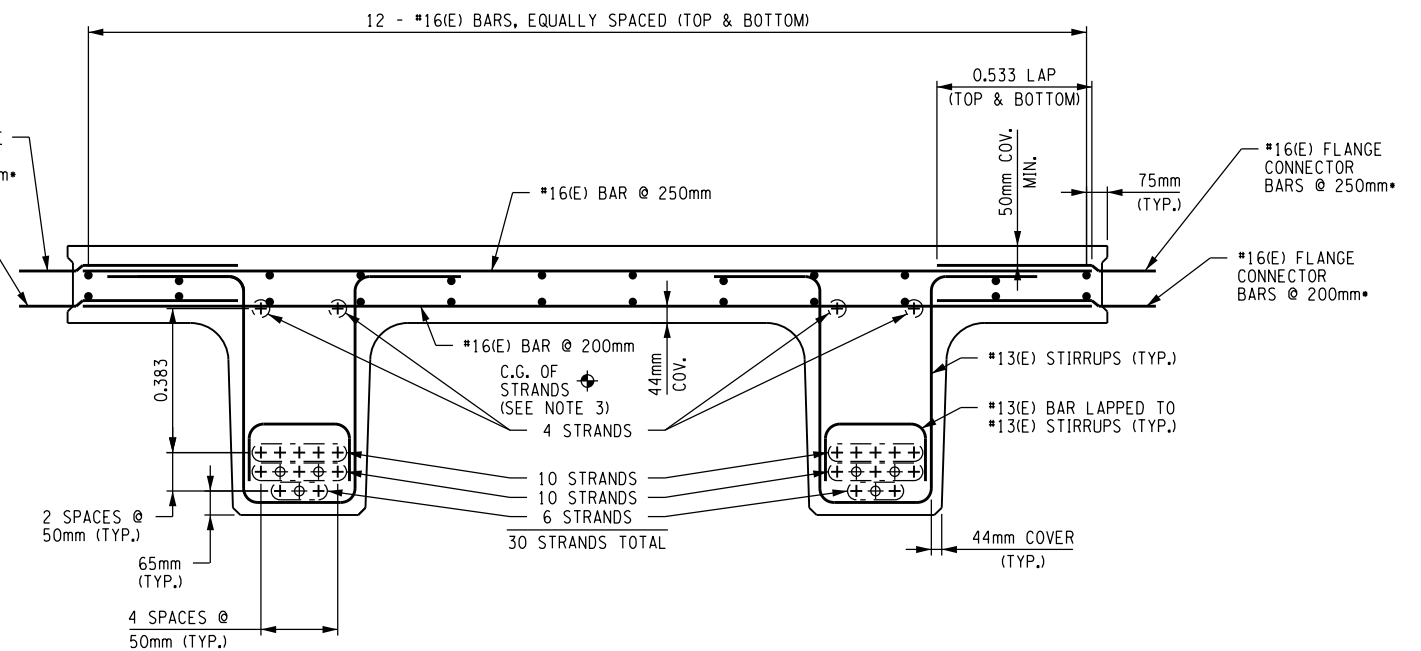
TYPICAL NEXT FASCIA BEAM SECTION  
NOT TO SCALE



TYPICAL NEXT INTERIOR BEAM SECTION  
NOT TO SCALE



TYPICAL NEXT FASCIA BEAM REINFORCEMENT SECTION  
NOT TO SCALE



TYPICAL NEXT INTERIOR BEAM REINFORCEMENT SECTION  
NOT TO SCALE

NOTES:

- + DENOTES STRAIGHT BONDED PRESTRESSING STRAND.
- ⊕ DENOTES STRAIGHT DEBONDED PRESTRESSING STRAND.
- SEE DRAWING ST-18 FOR SCHEMATIC DETAIL FOR DEBONDED STRANDS AND FOR BEAM END REINFORCEMENT DETAILS.
- SEE DRAWING ST-24 FOR BARRIER REINFORCEMENT DETAILS.
- ALL PRESTRESSING STRANDS SHALL BE 15.2mm DIAMETER, UNCOATED SEVEN WIRE, LOW RELAXATION STRANDS CONFORMING TO ASTM A416. THE ULTIMATE STRENGTH OF THE STRANDS SHALL BE 1861.6 MPa.
- JACKING FORCE = 195.5 KN PER STRAND.
- REQUIRED MINIMUM CONCRETE STRENGTH AT TRANSFER = 49 MPa.

NOTES CONTINUED:

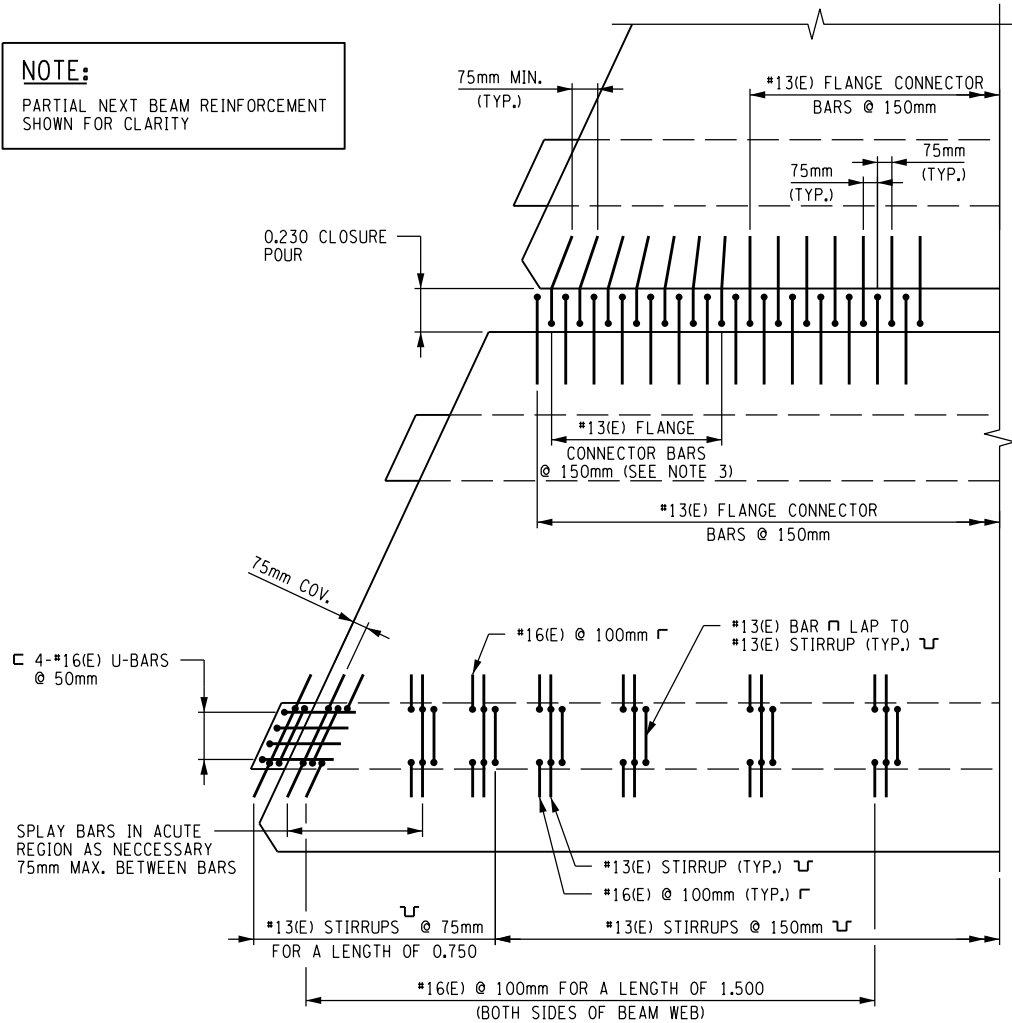
- REQUIRED MINIMUM CONCRETE STRENGTH AT 28 DAYS = 70 MPa.
- ALLOWABLE TENSION IN THE PRESTRESSED UNITS:  
AT TRANSFER = 1.38 MPa  
AT SERVICE LIMIT STATE = 2.07 MPa
- ALL REINFORCEMENT CONTAINED IN OR PROTRUDING FROM THE PRECAST BEAMS, INCLUDING STRANDS, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE NEXT BEAM ITEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR ASSURING STABILITY OF ALL BEAMS DURING ALL PHASES OF CONSTRUCTION.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

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DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\Bridge\CADD\2517 Prop NEXT BEAM DETAILS 2 OF 3.dwg

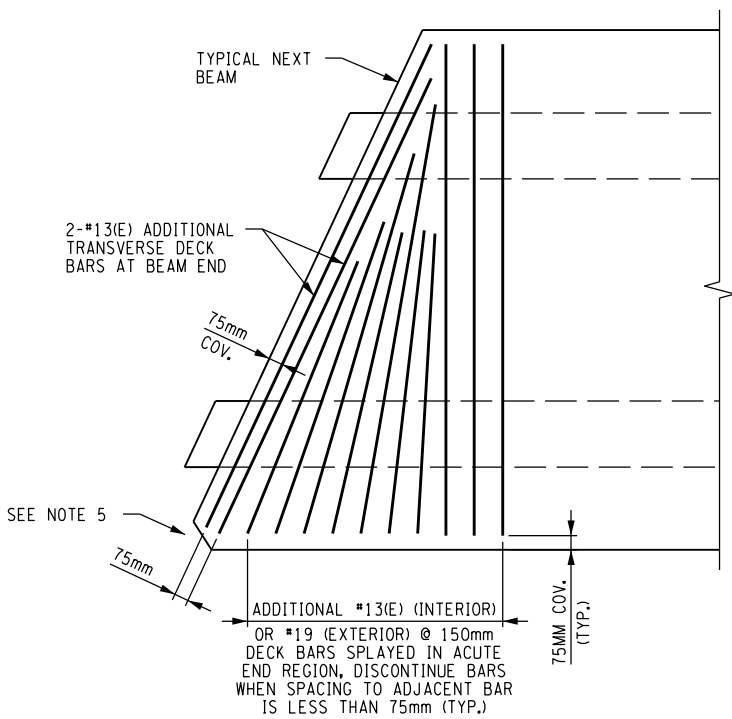
	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
	DES. TJA CCF	DR. AL CCF	CK. GMZ	DATE: MAY 2016			PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820	
NEXT BEAM DETAILS (2 OF 3)							SCALE: NOT TO SCALE	DRAWING NO: <b>ST-17</b> SHEET 33	

**NOTE:**  
PARTIAL NEXT BEAM REINFORCEMENT SHOWN FOR CLARITY

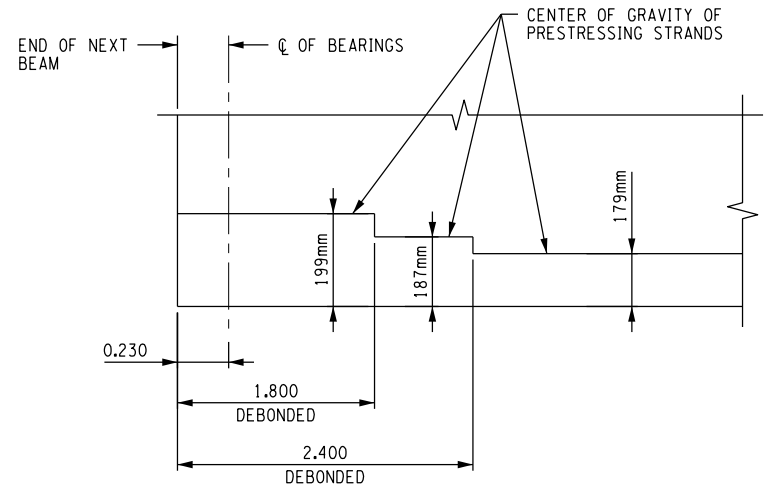


**SKEWED BEAM END DETAIL**  
NOT TO SCALE

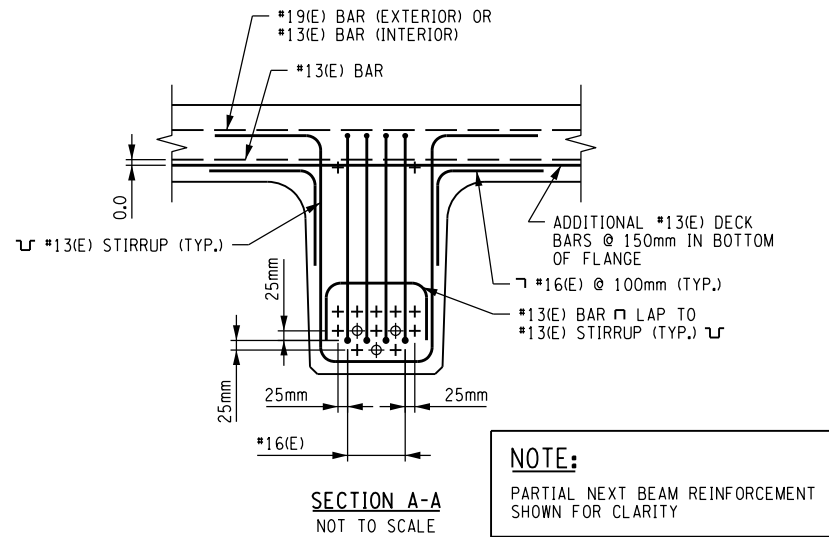
**NOTE:**  
PARTIAL NEXT BEAM REINFORCEMENT SHOWN FOR CLARITY



**ADDITIONAL DECK BAR REINFORCEMENT DETAIL**  
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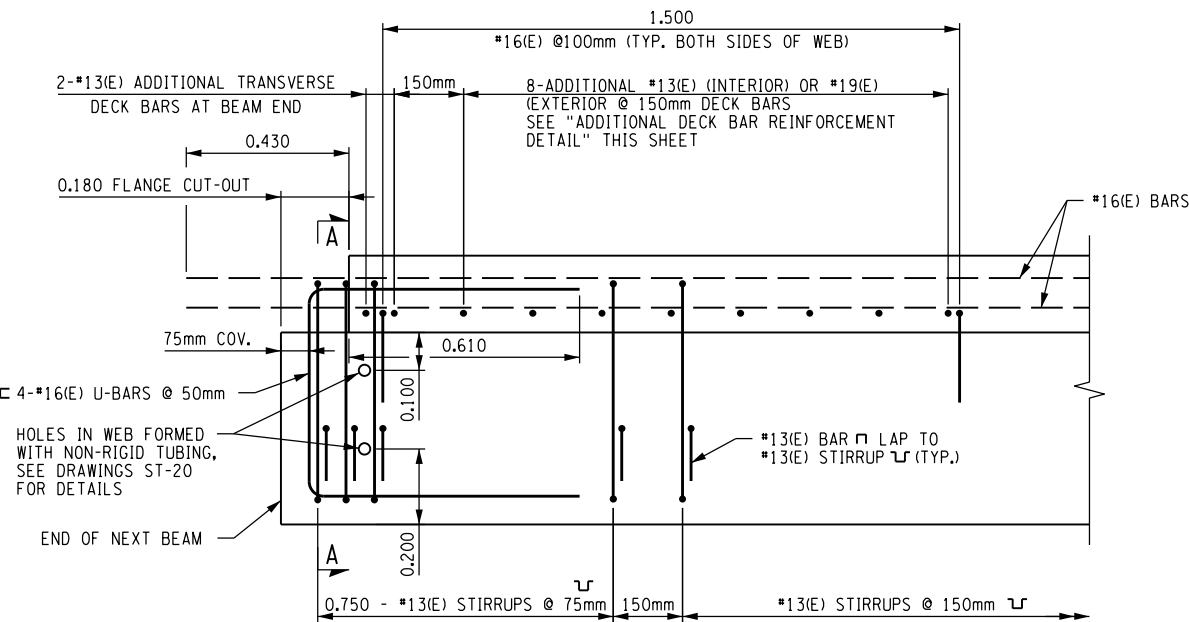


**SCHEMATIC DETAIL FOR DEBONDED STRANDS**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE

**NOTE:**  
PARTIAL NEXT BEAM REINFORCEMENT SHOWN FOR CLARITY




**END REINFORCEMENT ELEVATION**  
NOT TO SCALE

- NOTES:**
- + DENOTES STRAIGHT BONDED PRESTRESSING STRAND.
  - ⊕ DENOTES STRAIGHT DEBONDED PRESTRESSING STRAND.
  - PLACE FLANGE CONNECTOR REINFORCING PERPENDICULAR TO BEAM EDGE, BEND CONNECTOR REINFORCING WITHIN THE FLANGE IN ACUTE CORNERS TO PRODUCE A SQUARE PROJECTION.
  - SEE DRAWING ST-17 FOR LOCATION OF DEBONDED STRANDS AND ADDITIONAL NEXT BEAM NOTES.
  - CLIP ACUTE CORNERS OF FLANGE 150mm x 150mm TO MINIMIZE DAMAGE DURING FABRICATION, TRANSPORTATION, AND ERECTION.
  - DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

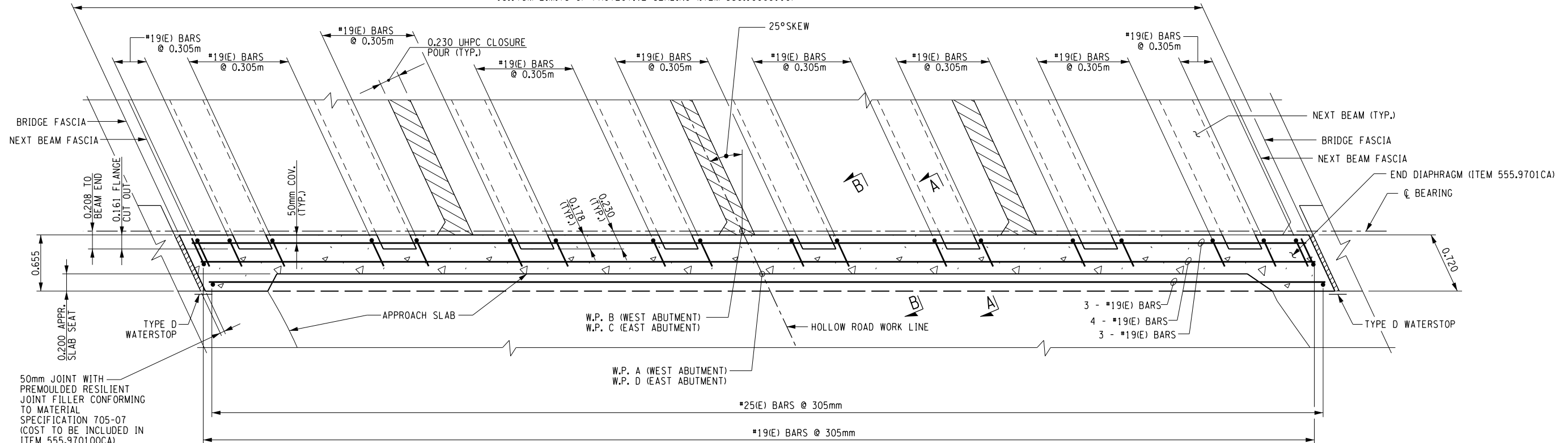
**BEAM END REINFORCEMENT DETAILS**  
NOT TO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 Prop NEXT BEAM DETAILS 3 OF 3.sht

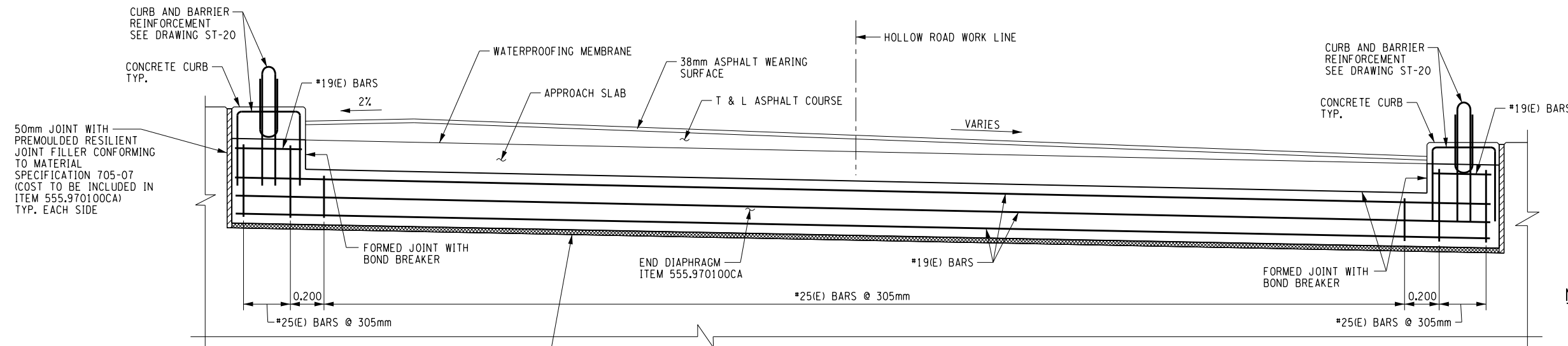
GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE	<b>TranSystems</b> TRANSYSTEMS		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
						DATE: MAY 2016	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820	
DES.	DR.	CK.					DETAILS: NEXT BEAM DETAILS (3 OF 3)	SCALE: AS SHOWN	DRAWING NO: <b>ST-18</b>
									SHEET 34

13.175M LIMITS OF PROTECTIVE SEALING (ITEM 559.18960118)



**END DIAPHRAGM PLAN**

NOT TO SCALE



**END DIAPHRAGM ELEVATION**

NOT TO SCALE

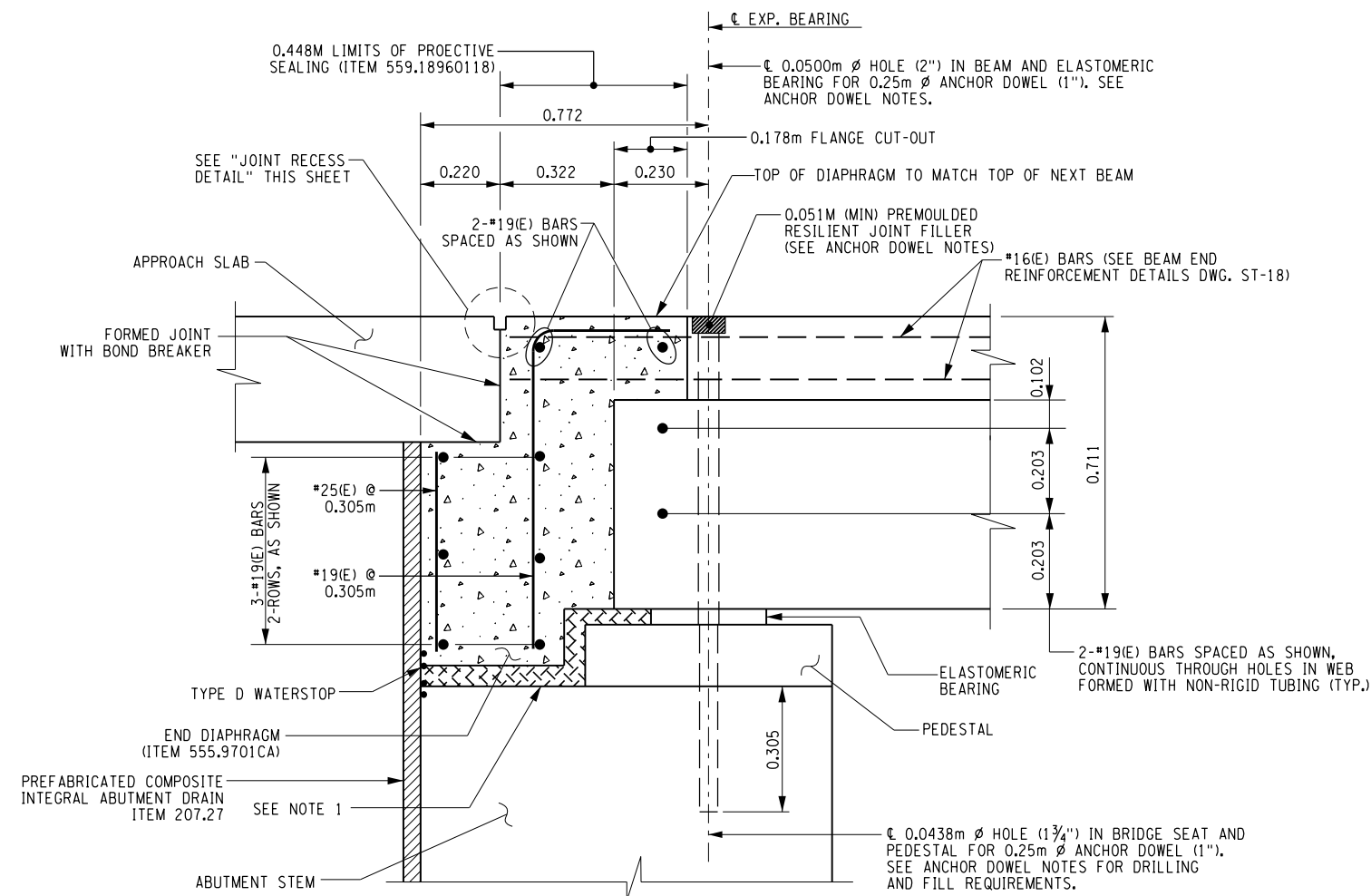
**NOTES:**

1. (E) DENOTES EPOXY COATING
2. CONCRETE BARRIER AND BARRIER REINFORCEMENT NOT SHOWN FOR CLARITY. SEE DWG. ST-20 FOR DETAILS.
3. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

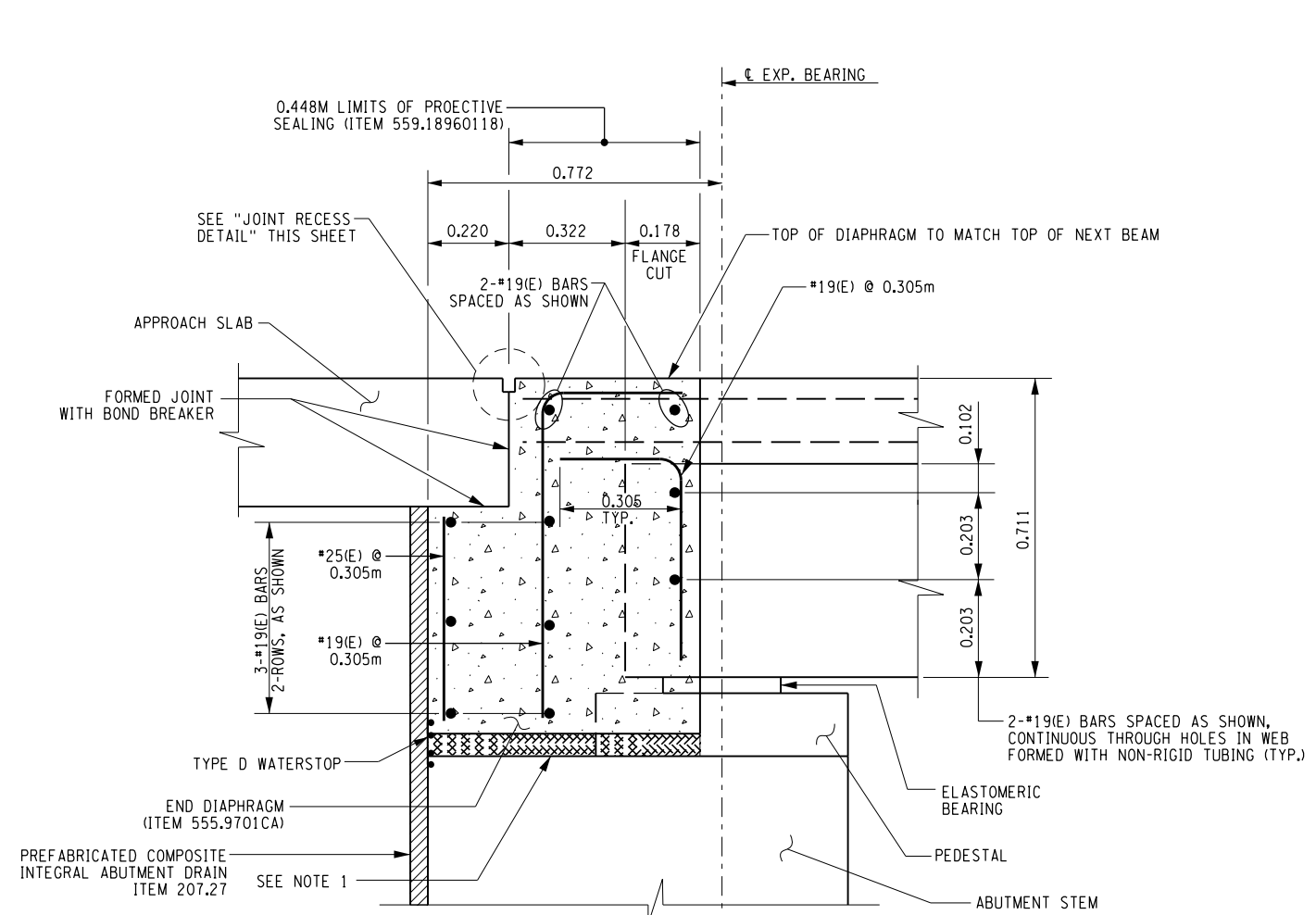
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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

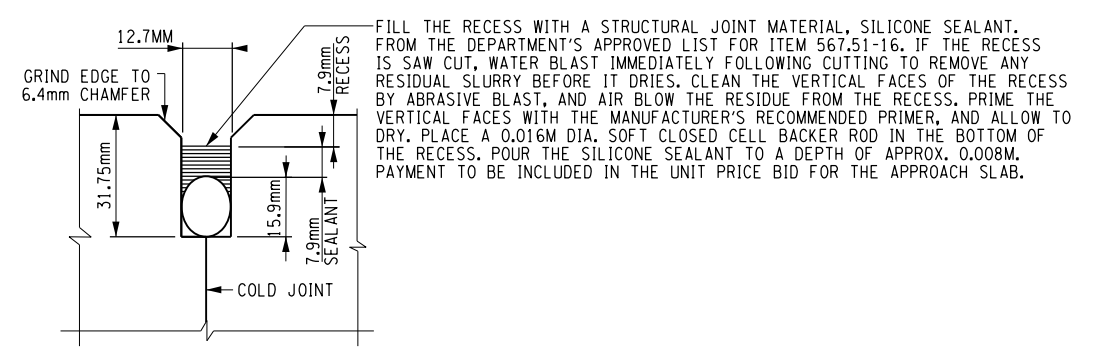
	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
						DETAILS: <b>END DIAPHRAGM DETAILS</b> (1 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-19</b> SHEET 35



SECTION A-A  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE



JOINT RECESS DETAIL  
NOT TO SCALE

**ANCHOR DOWEL NOTES:**

1. PREFORMED CLOSED CELL FOAM CONFORMING TO MATERIAL SPECIFICATION 705-08 OF THE NYS DOT STANDARD SPECIFICATIONS AND SHALL BE PAID FOR UNDER ITEM 555.970100CA.
2. THE END OF THE BEAM AND ANCHOR DOWEL HOLES SHALL BE MADE VERTICAL +/- 7mm UNDER DEAD LOAD AND GRADE. ANCHOR DOWELS SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE PAID FOR UNDER THE APPROPRIATE BEARING ITEM.
3. DOWEL HOLE FILL MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE BEARING ITEM AND SHALL MEET MATERIAL REQUIREMENTS AS FOLLOWS:  
EXPANSION END MATERIAL OPTIONS:  
A. N.Y.S. MATERIAL SPEC. 702-0700-ASPHALT FILLER.  
B. FEDERAL MATERIAL SPEC. SS-S-200E-ELASTOMERIC POLYMER TYPE. TWO COMPONENT JET FUEL RESISTANT. COLD APPLIED.
4. THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.
5. COVER TO REINFORCEMENT SHALL BE 50mm UNLESS NOTED OTHERWISE.

**NOTES:**

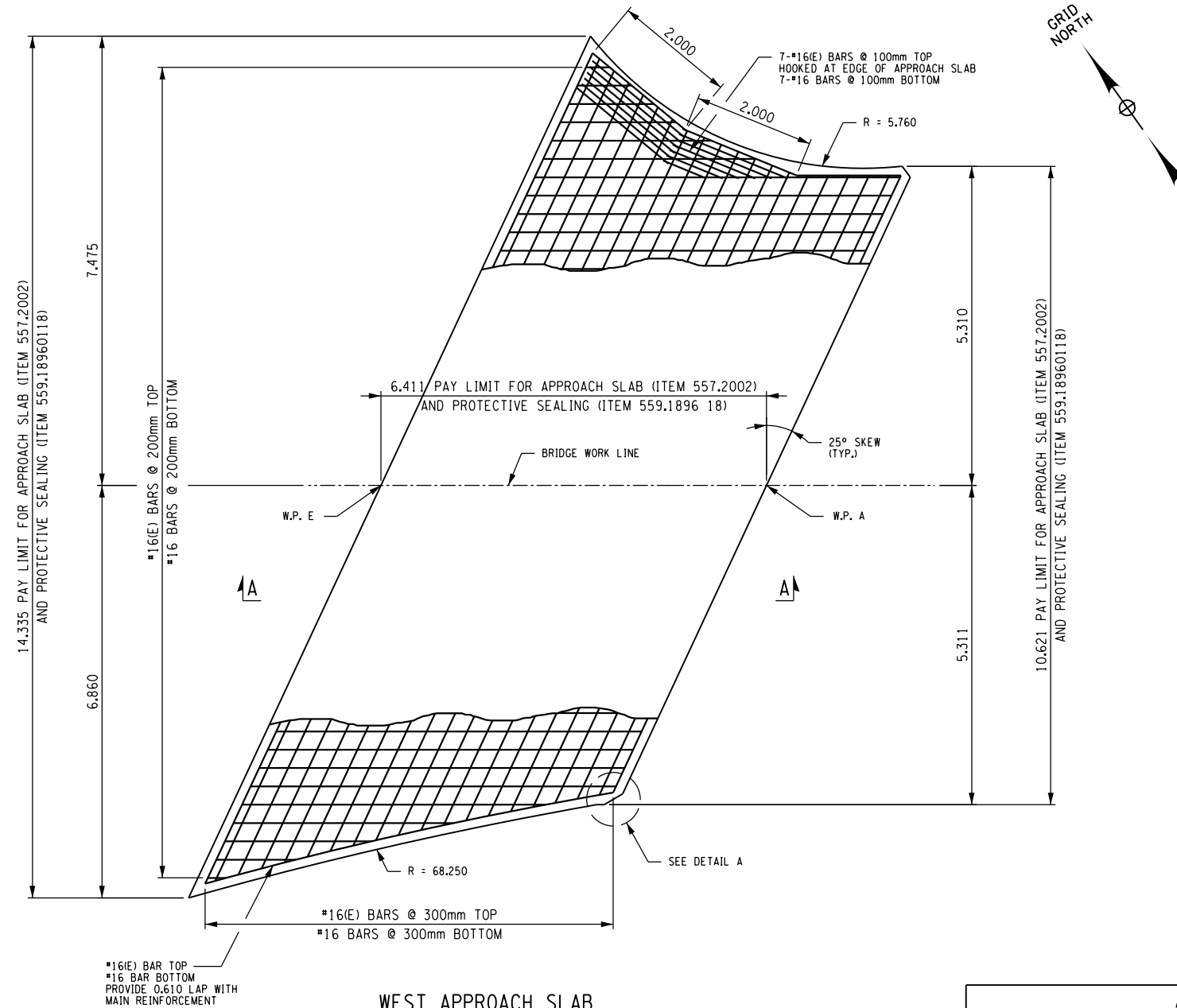
1. BOTTOM OF DIAPHRAGM TO BE FORMED WITH PREFORMED CLOSED CELL FOAM (MIN. 50mm THICK) MEETING THE REQUIREMENTS OF SECTION 705-08 OF THE NYS DOT STANDARD SPECIFICATIONS.
2. SEE DRAWING ST-21 AND 22 FOR APPROACH SLAB DETAILS.
3. SEE DRAWING ST-24 FOR BARRIER REINFORCEMENT DETAILS.
4. SEE DRAWING ST-27 FOR WATERSTOP DETAILS.
5. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

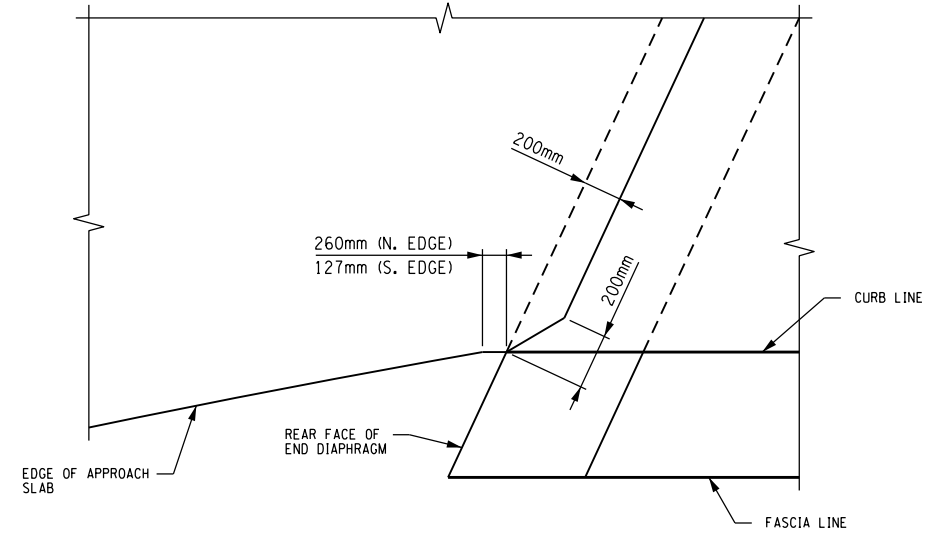
DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 Prop ABUTMENT END DIAPHRAGM DETAILS 2 of 2.rvt

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. TJA CCF    DR. AL CCF    CK. GMZ	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							DETAILS: END DIAPHRAGM DETAILS (2 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-20</b> SHEET 36





**WEST APPROACH SLAB**  
NOT TO SCALE

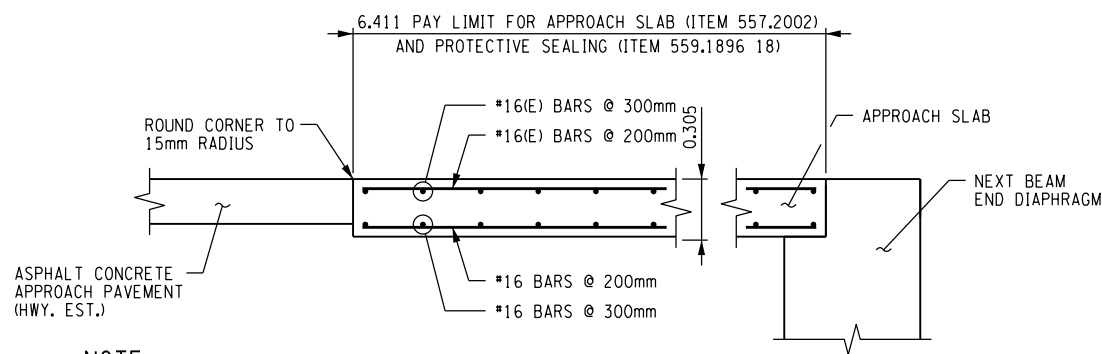


**DETAIL A**  
NOT TO SCALE

APPROACH SLAB TABLE		
LOCATION	CONCRETE ITEM 557.2002 (SQ M)	PROTECTIVE SEALER ITEM 559.1896 18 (SQ M)
WEST APPROACH SLAB	80	80

**NOTES:**

- DENOTES DIMENSIONS GIVEN ALONG BRIDGE WORK LINE.
- ALL REINFORCEMENT SHALL HAVE 75mm COVER UNLESS OTHERWISE NOTED.
- (E) DENOTES EPOXY COATED BARS.
- TO PREVENT UNHINDERED 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 0.004 IN. THICK AND LAPS SHALL BE 2 FT. MINIMUM. COST TO BE INCLUDED IN ITEM 557.2002.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.



**SECTION A-A**  
NOT TO SCALE

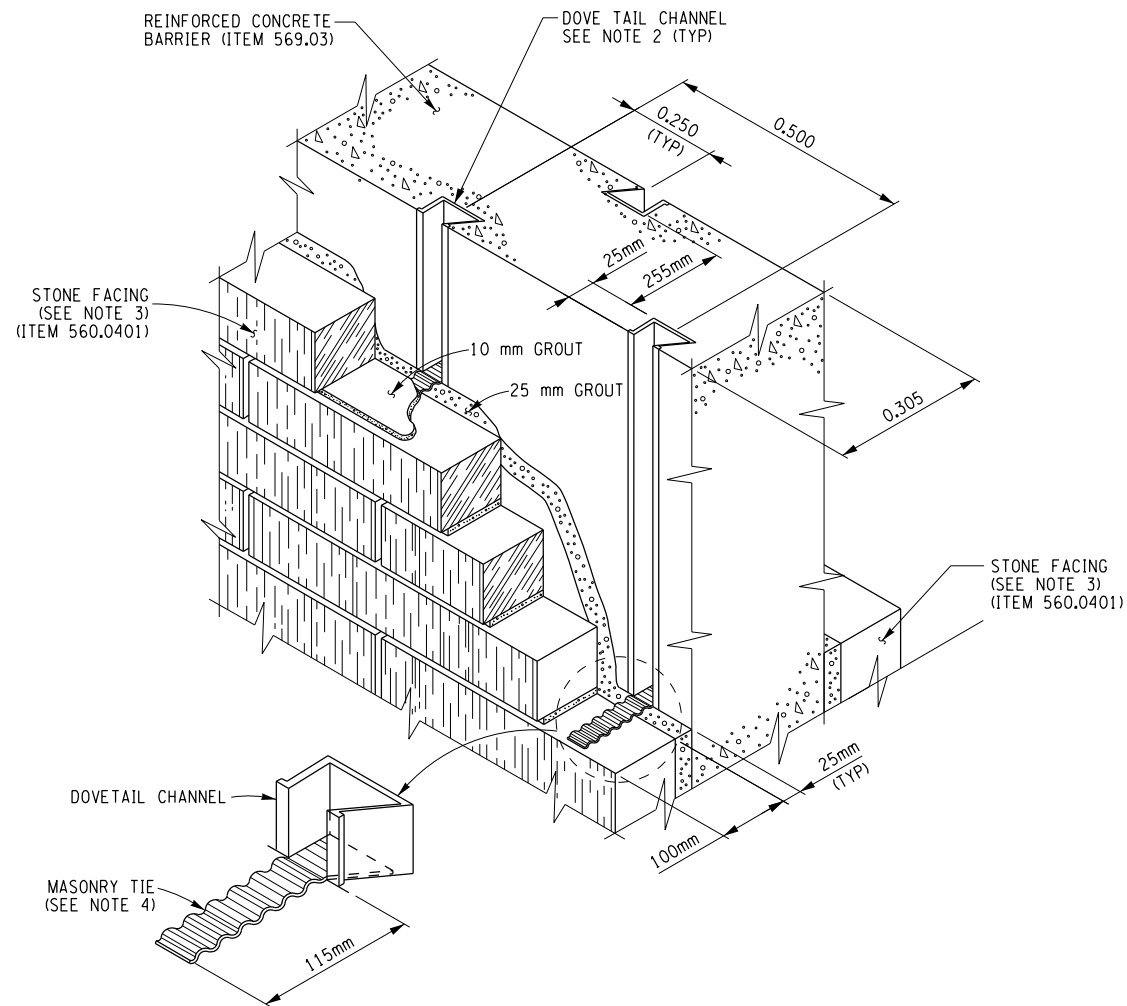
**NOTE:**

WATERPROOFING MEMBRANE AND TOP COURSE OF ASPHALT NOT SHOWN FOR CLARITY.

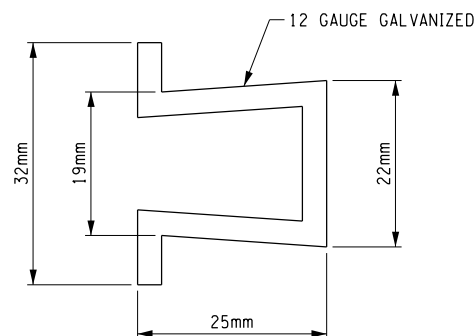
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 Prop EAST APPROACH SLAB DETAILS.sht

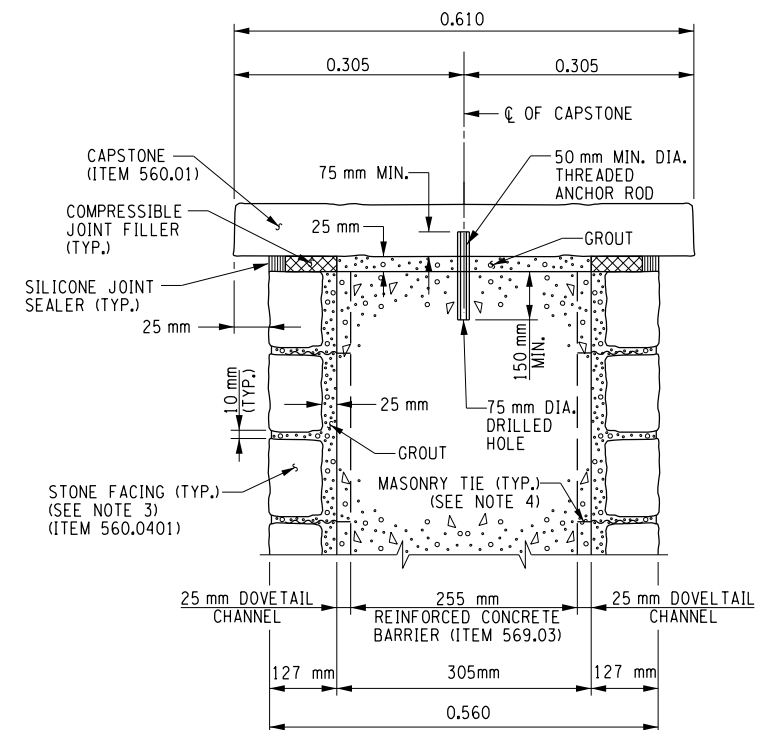
	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
	DES. TJA CCF	DR. AL CCF	CK. GMZ	DATE: MAY 2016		PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820	
					<b>APPROACH SLAB DETAILS</b> (2 OF 2)		SCALE: NOT TO SCALE	DRAWING NO: <b>ST-22</b>
								SHEET 38



STONE FACING ANCHORAGE DETAILS  
NOT TO SCALE



DOVETAIL CHANNEL DETAIL  
NOT TO SCALE



CAPSTONE DETAIL  
NOT TO SCALE

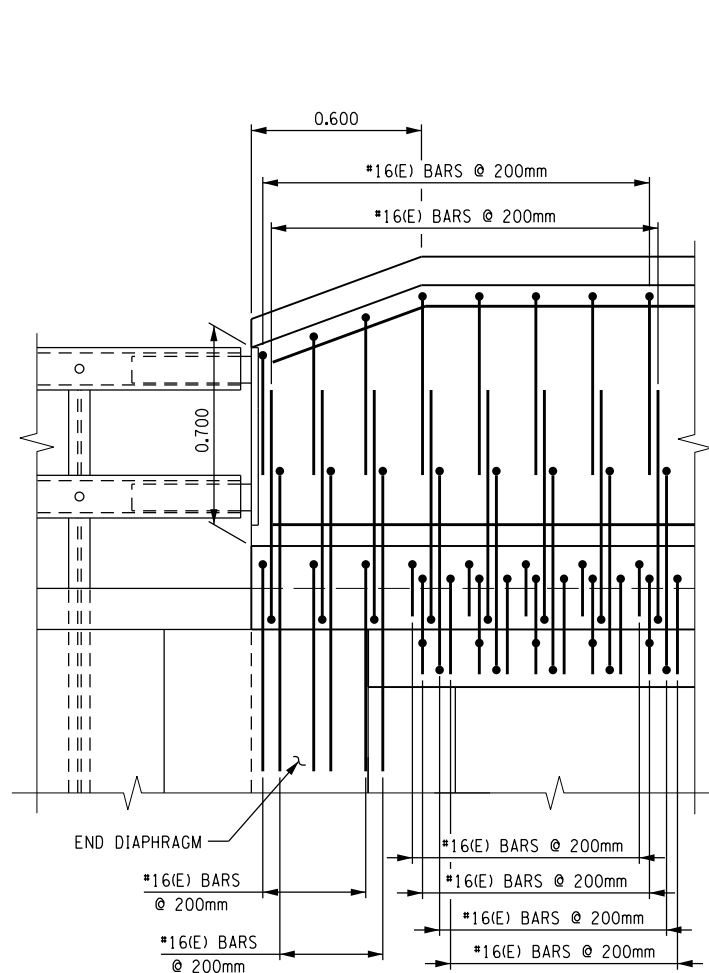
NOTES:

1. FOR BARRIER REINFORCEMENT, SEE DRAWING ST-24.
2. THE DOVETAIL CHANNEL SHALL EXTEND DOWN TO THE TOP OF THE CURB.
3. THE STONE ILLUSTRATED IS DIMENSION STONE MASONRY. THE STONE PROVIDED AT THIS LOCATION SHALL BE IRREGULAR PER ITEM 560.0401.
4. PROVIDE 1 MASONRY TIE PER 0.5 SQ. METER FACE AREA OF STONE.
5. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

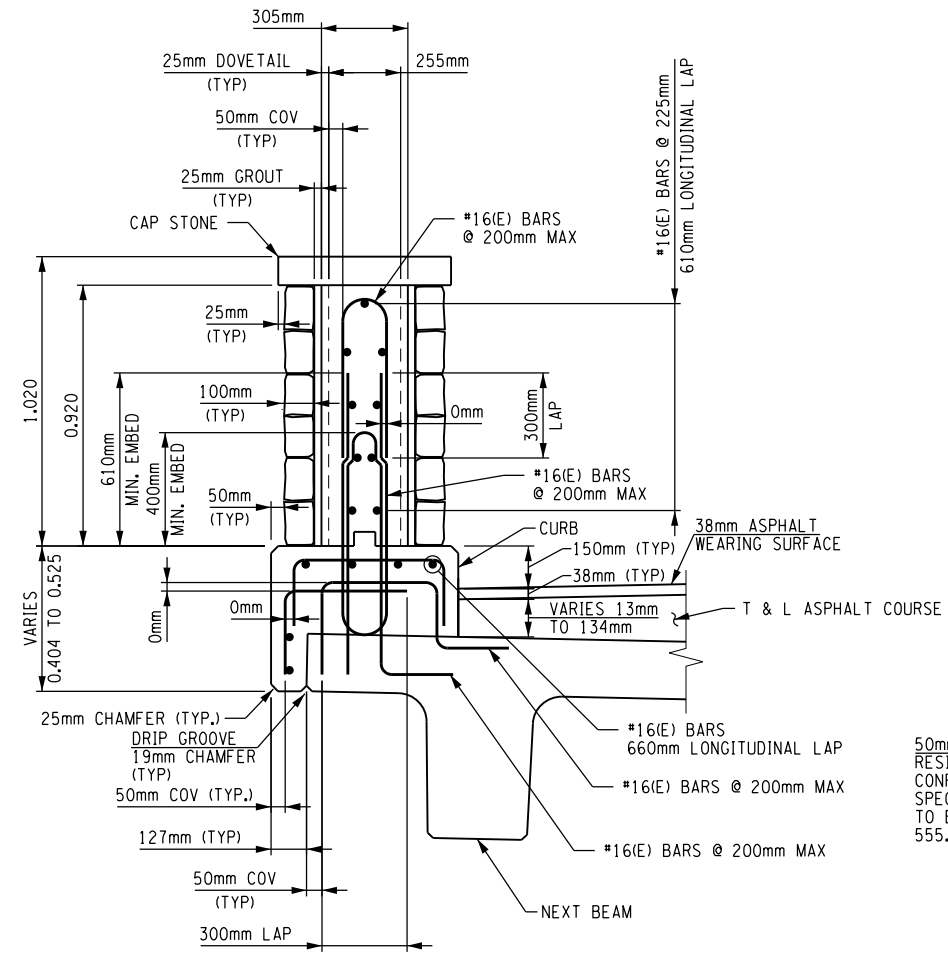
DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 BRIDGE BARRIER DETAILS 1 of 2.SHT

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

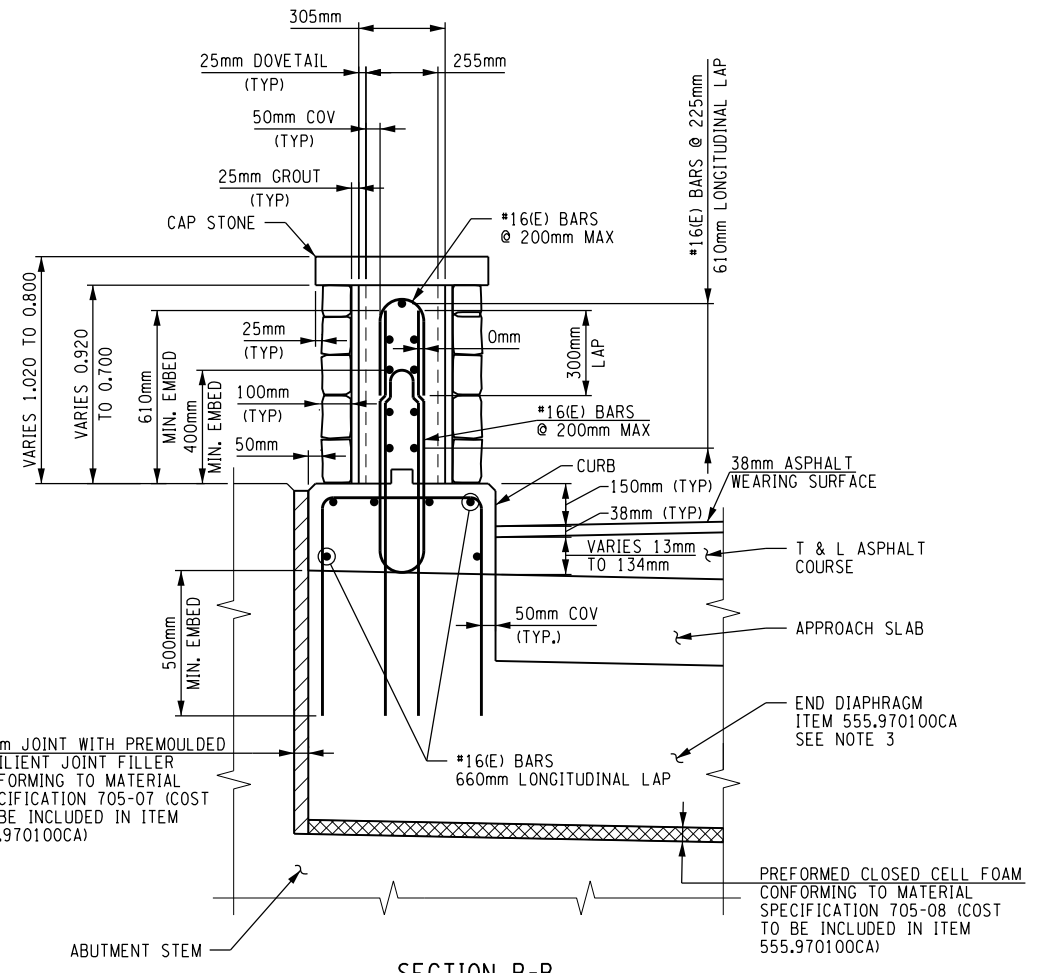
	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>				
							DATE: MAY 2016	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820		
						DES. TJA CCF	DR. AL CCF	CK. GMZ	DETAILS: BRIDGE BARRIER DETAILS (1 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-23</b> SHEET 39



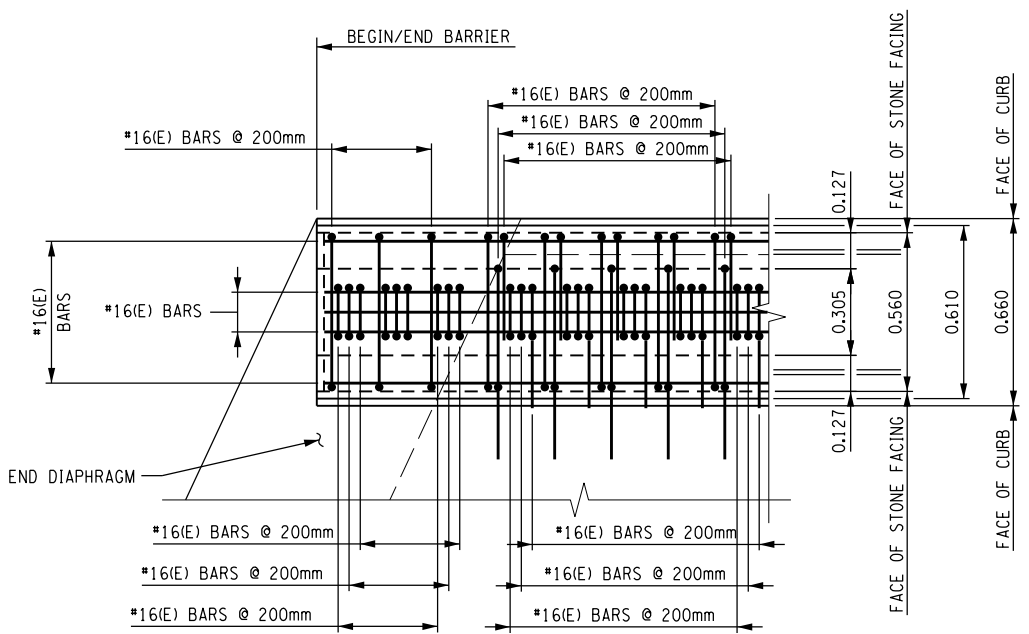
**BARRIER REINFORCEMENT DETAIL**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE



**BARRIER REINFORCEMENT PLAN**  
NOT TO SCALE

**NOTES:**

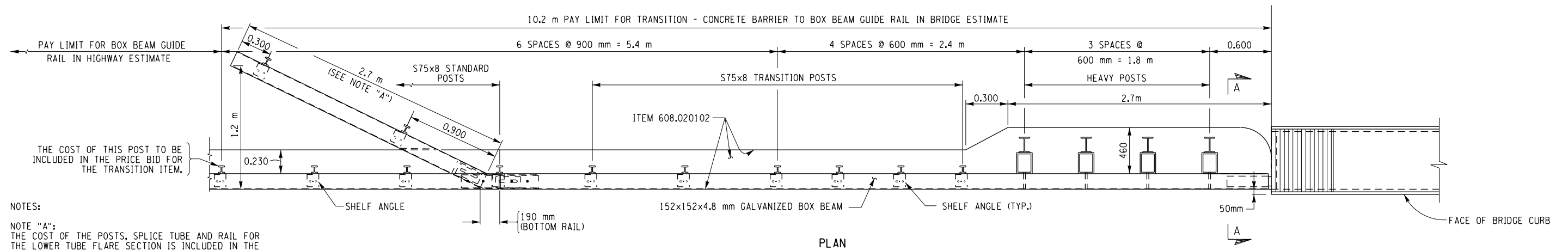
1. FOR STONE FACING DETAILS, SEE DRAWING ST-23.
2. FOR TRANSITION RAIL DETAILS, SEE DRAWINGS ST-25 AND ST-26.
3. REINFORCEMENT FOR DIAPHRAGM NOT SHOWN FOR CLARITY. FOR DIAPHRAGM REINFORCEMENT DETAILS, SEE DRAWING ST-20.
4. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\cadd\2517 BRIDGE BARRIER DETAILS 2 of 2.SHT

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
	DES. TJA CCF	DR. AL CCF	CK. GMZ				DATE: MAY 2016	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							DETAILS: BRIDGE BARRIER DETAILS (2 OF 2)	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-24</b> SHEET 40





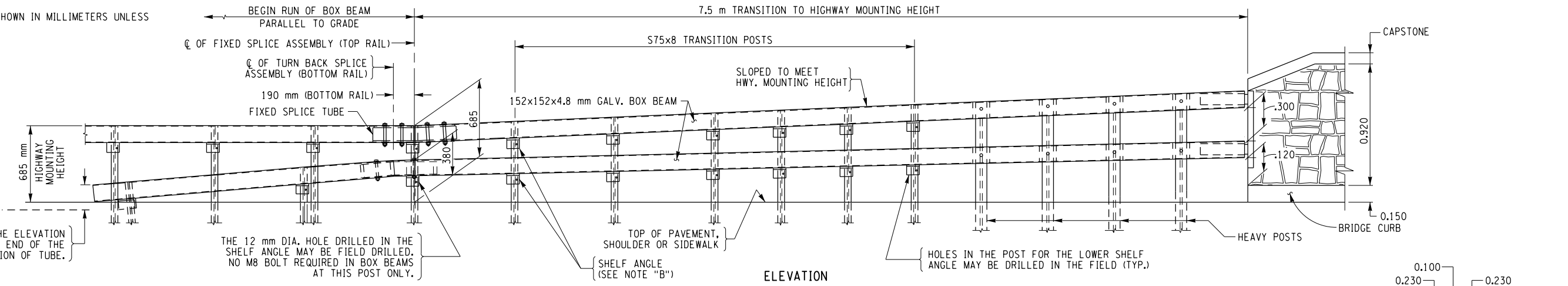
**NOTES:**

**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".

TRANSITION RAIL SHOWN STRAIGHT IN PLAN, HOWEVER, BOTH TRANSITION RAILS ON WEST SIDE OF BRIDGE ARE CURVED. SEE TABLE ON DRAWING MT-1 FOR RADIUS OF CURVATURE.

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.

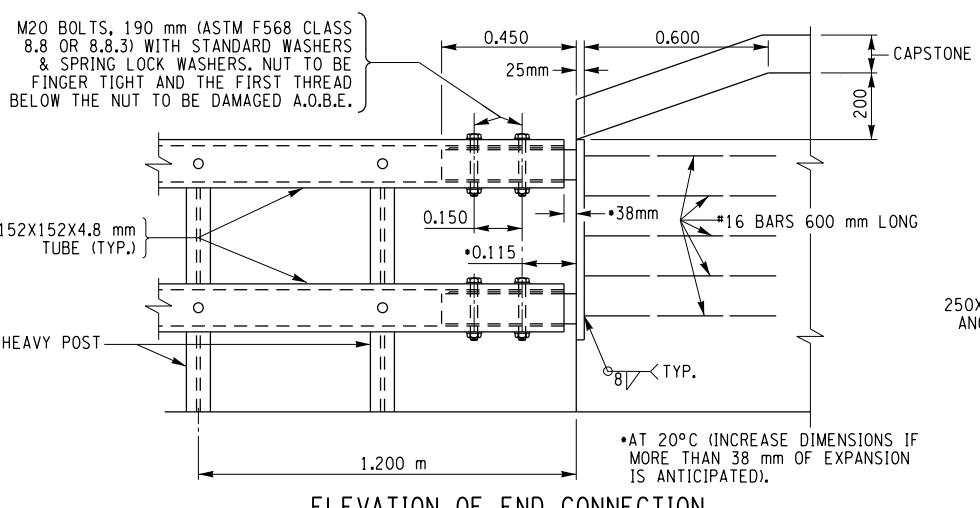


225 mm MEASURED FROM THE ELEVATION OF THE GROUND AT THE END OF THE FLARED BACK SECTION OF TUBE.

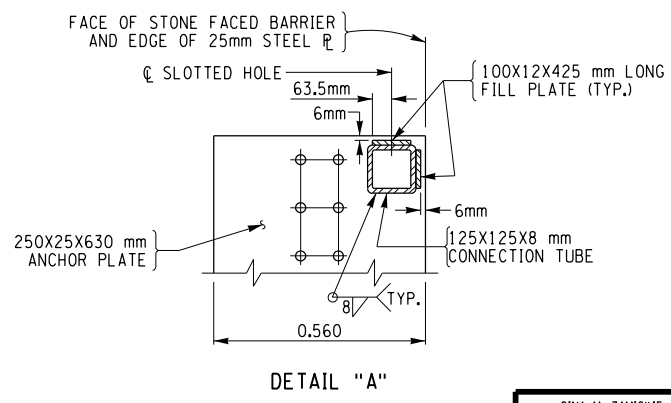
THE 12 mm DIA. HOLE DRILLED IN THE SHELF ANGLE MAY BE FIELD DRILLED. NO M8 BOLT REQUIRED IN BOX BEAMS AT THIS POST ONLY.

**BOX BEAM TRANSITION TO CONCRETE BARRIER**

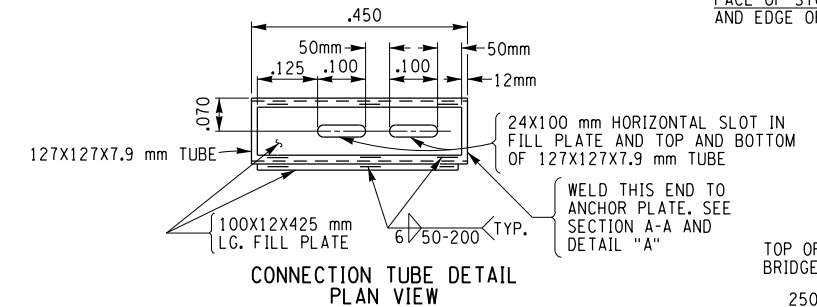
SCALE 1:20



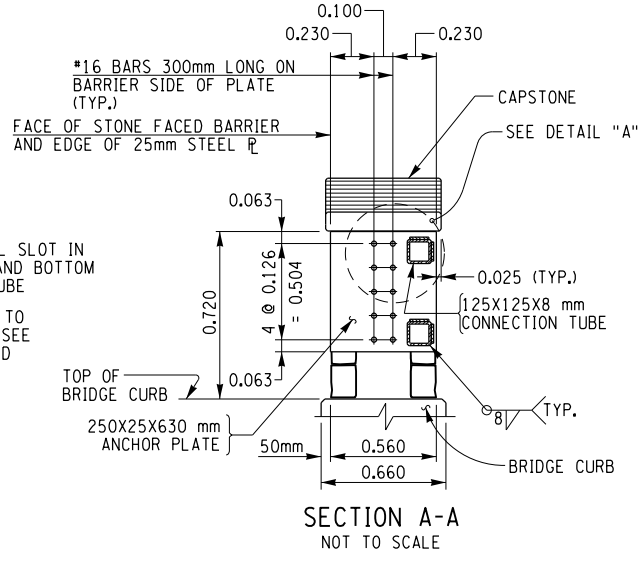
**ELEVATION OF END CONNECTION**  
NOT TO SCALE



**DETAIL "A"**



**CONNECTION TUBE DETAIL PLAN VIEW**

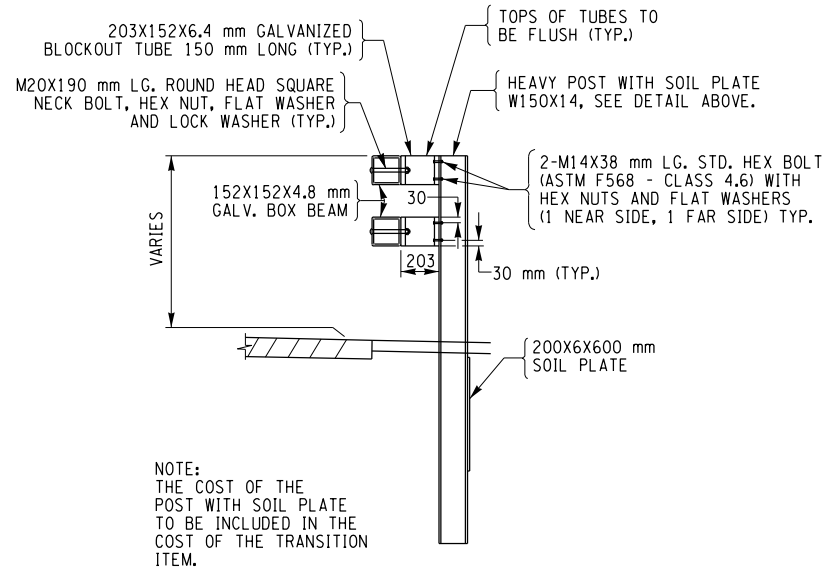


**SECTION A-A**  
NOT TO SCALE

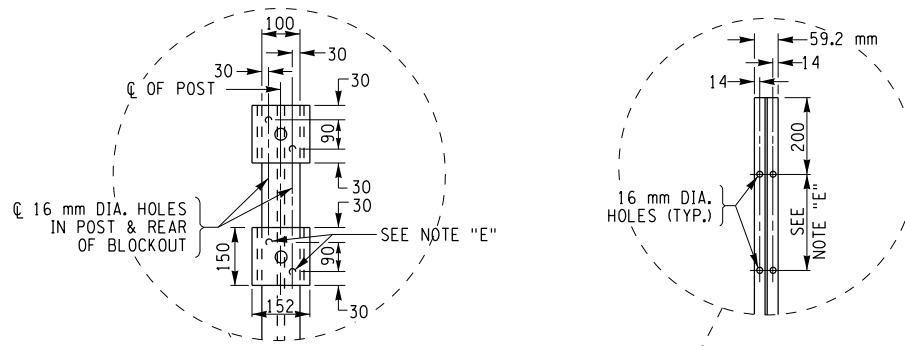
DATE PLOTTED: 8/18/2016  
FILE NAME: G:\PROJ\2517\bridge\CADD\2517 TRANSITION RAIL DETAILS 1 OF 2.SHT

	GINA M. ZAMISKIE	NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. DR. CK.	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19 BIN 3342820	DRAWING NO: <b>ST-25</b> SHEET 41
							<b>TRANSITION RAIL DETAILS</b> (1 OF 2)	SCALE: AS SHOWN	

DATE PLOTTED: 8/18/2016  
 FILE NAME: G:\PROJ\2517\bridge\CADD\2517 TRANSITION RAIL DETAILS 2 OF 2.SHT

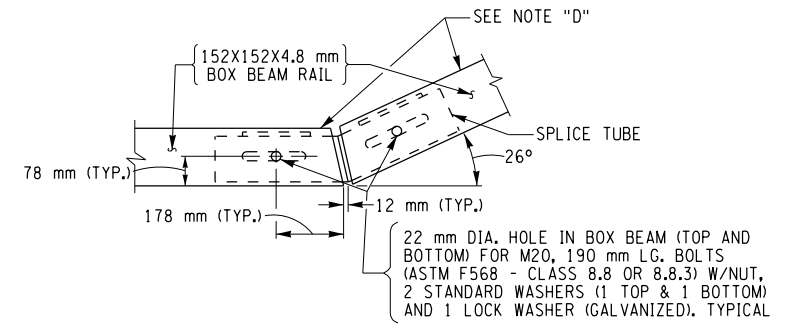


**HEAVY POST ELEVATION**  
 SCALE: 1:20

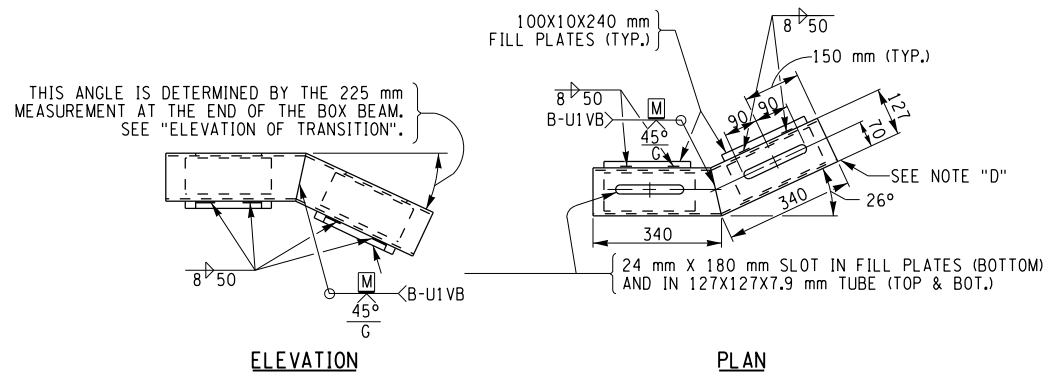
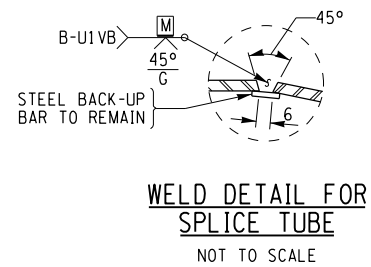
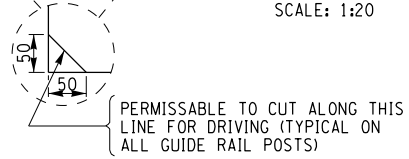


**HEAVY POST DETAIL**  
 SCALE: 1:20

**TRANSITION POST DETAIL**  
 SCALE: 1:20



**SPLICE DETAIL AT TURN BACK IN LOWER TRANSITION GUIDE RAIL**  
 SCALE: 1:10



**SPLICE TUBE DETAIL FOR TURN BACK**  
 SCALE: 1:10

**NOTES:**

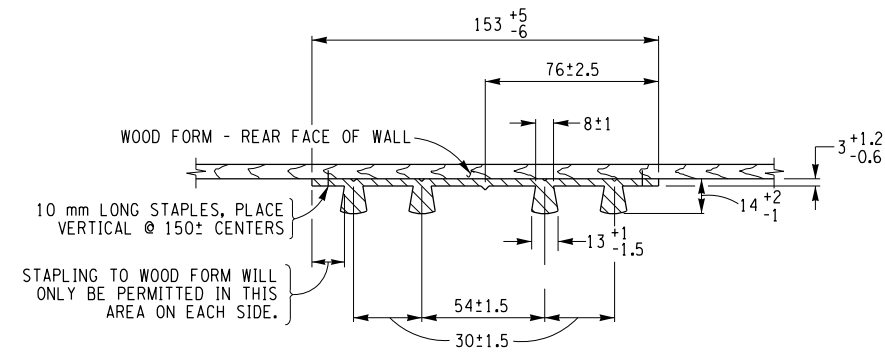
FOR SPECIAL POST DETAIL, SEE BD-RC3.

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.

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.

GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE	<b>TranSystems</b> TRANSYSTEMS			<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>	
[Professional Engineer Seal]						DATE:	MAY 2016		PROJECT:	REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19
						DES.	DR.	CK.	DETAILS:	TRANSITION RAIL DETAILS (2 OF 2)
									SCALE:	AS SHOWN
									DRAWING NO.:	<b>ST-26</b>
										SHEET 42



**TYPE D WATERSTOP**  
NOT TO SCALE

**WATERSTOP NOTES:**

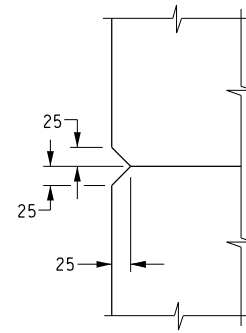
HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.

TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.

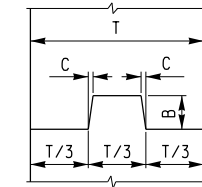
PVC USED IN WATERSTOPS SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-11.

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

WATERSTOP SHALL BE SHIPPED IN STRAIGHT SECTIONS HAVING A MINIMUM LENGTH OF 3 METERS UNLESS SHORTER LENGTHS ARE REQUIRED.

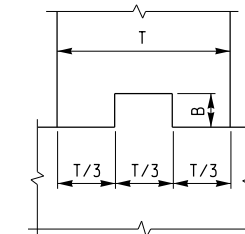


**CHAMFER DETAIL**  
NOT TO SCALE



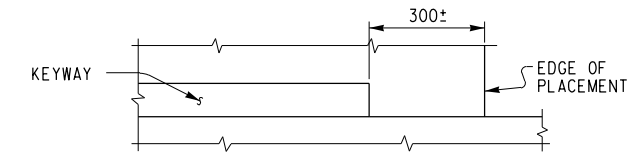
NOTE: WATERSTOP NOT SHOWN.

**VERTICAL**  
NOT TO SCALE



NOTE: WATERSTOP NOT SHOWN.

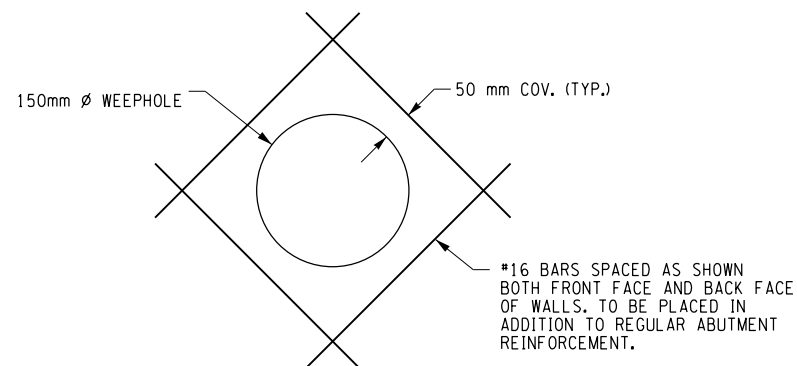
**HORIZONTAL**  
NOT TO SCALE



CONSTRUCTION AND CONTRACTION JOINTS		
C	B	T/3
5	40	0 TO 150
10	90	155 TO 250
20	140	OVER 250

EXPANSION JOINTS		
C	B	T/3
10	90	0 TO 250
20	140	OVER 250

**KEYWAY DETAILS**  
NOT TO SCALE



**WEEPHOLE REINFORCEMENT DETAIL**  
NOT TO SCALE

**NOTES:**

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FILE NAME: G:\PROJ\2517\Bridges\CADD\2517 Prop MISCELLANEOUS DETAILS 02.sht

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

GINA M. ZAMISKIE		NO.	SUBMITTAL / REVISION	APPD.	DATE		<b>DUTCHESS COUNTY</b> <b>DEPARTMENT OF PUBLIC WORKS</b>		
							DATE: MAY 2016 DES. DR. CK.	PROJECT: REPLACEMENT OF HOLLOW RD. (CR.14) BRIDGE NO. C-19	BIN 3342820
							<b>MISCELLANEOUS</b> <b>BRIDGE DETAILS</b>	SCALE: NOT TO SCALE	DRAWING NO: <b>ST-27</b> SHEET 43