NEW YORK STATE | Thruway Authority

BUFFALO DIVISION
PLANS FOR
REMOVAL AND CONSTRUCTION
OF THE
INTERCHANGE 46 BRIDGE STRUCTURE
AT
I-90 MILE POST 362.44
IN
MONROE COUNTY

TAB 25-17B D215040

167 SHEETS BIN 5510600

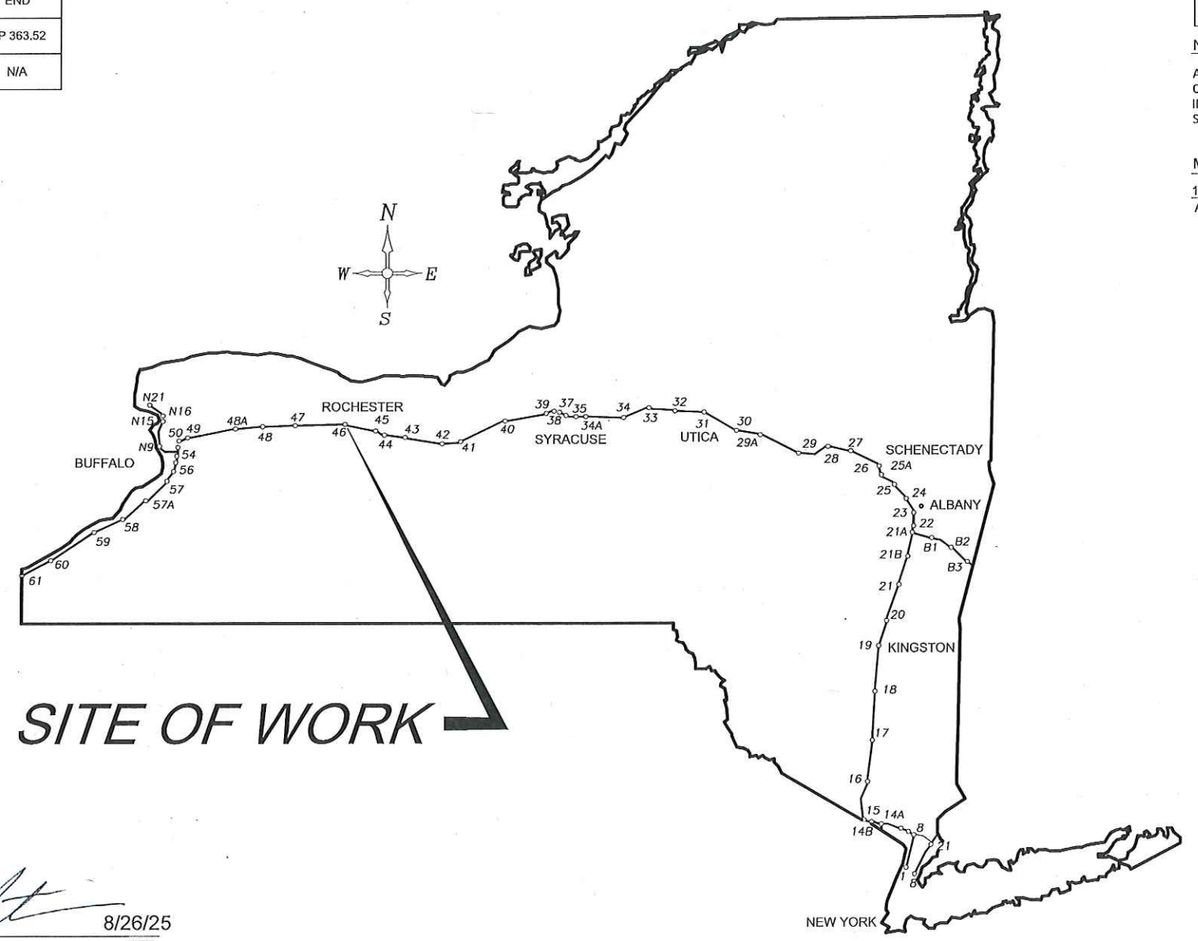
LOAD RATING (LRFR)		
INVENTORY	HL-93	1.27
OPERATING	HL-93	1.64

RATING FACTORS BASED ON HL-93 LOADING

LOAD RATING (LFR)		
INVENTORY	HS-26.1	47.1 TONS
OPERATING	HS-43.7	78.6 TONS

RATING FACTORS BASED ON HS-20 LIVE LOADING
LRFR AND LFR RATINGS INCLUDE FURTURE WEARING COURSE OF 20 PSF

	PROJECT LIMITS		CONTRACT LIMITS	
	START	END	START	END
MAINLINE	MP 362.41	MP 362.45	MP 361.35	MP 363.52
RAMP	STA. A 13+00	STA. A 34+00	N/A	N/A



TYPE OF CONSTRUCTION:

BRIDGE REPLACEMENT ON NEW ALIGNMENT, OVERHEAD SIGN STRUCTURE REPLACEMENT (S362.40), DRAINAGE IMPROVEMENTS, AND ROADWAY RECONSTRUCTION

STANDARD SHEETS:

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY NYSDOT, WHICH ARE CURRENT AS OF THE STANDARD SPECIFICATIONS ADOPTION DATE SHOWN ON THE PROPOSAL COVER SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

THE LATEST REVISIONS OF THE NYSTA STANDARD SHEETS MAINTAINED BY THE AUTHORITY, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) LISTED ON DWG. SS-1 UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS

BRIDGE MAINTENANCE GUIDELINES

UPON COMPLETION OF THIS PROJECT, THE BRIDGE STRUCTURES REPAIRED, REHABILITATED OR RECONSTRUCTED HEREUNDER SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT AASHTO MANUAL FOR BRIDGE MAINTENANCE, AND THE NEW YORK STATE THRUWAY AUTHORITY MAINTENANCE DIRECTIVES:

BRIDGE MANAGEMENT PROGRAM MD 05-16, BRIDGE MANAGEMENT ACTIVITIES MD 05-3, AND BRIDGE INSPECTION PROGRAM MD 95-5.

SPECIAL MAINTENANCE REQUIREMENTS: NONE

NOTES:

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

MAINTENANCE JURISDICTION

100% AUTHORITY
ALL BRIDGE AND HIGHWAY ELEMENTS

UDIG NEW YORK
UNDERGROUND FACILITIES PROTECTION ORGANIZATION
CALL 811

PREPARED AND RECOMMENDED BY:
Brett Reynolds DATE 8/15/25
BERGMANN ASSOCIATES
BRETT REYNOLDS, P.E.
N.Y.S.P.E. LIC. NO. 084906

PREPARED AND RECOMMENDED BY:
Howard Ressel DATE 8/15/25
POPLI DESIGN GROUP
HOWARD RESSEL, PE
N.Y.S.P.E. LIC. NO. 065545

PREPARED AND RECOMMENDED BY:
DATE 8/15/25
HUNT ENGINEERS/ARCHITECTS/SURVEYORS
JAMES CUMMINGS, PE
N.Y.S.P.E. LIC. NO. 080958

CONTRACTOR'S NAME: .....
AWARD DATE:
COMPLETION DATE: .....
FINAL ACCEPTANCE DATE: .....
INSPECTION FIRM'S NAME: .....
RESIDENT ENG./EIC: .....
FINAL COST TOTAL: .....

FISCAL SHARE	COST(S)

INSPECTION FIRM
CONSULTANT STAMP:

REVIEWED BY Brett M Reynolds
PROJECT MANAGER Brett M Reynolds
BUREAU DIRECTOR

RECOMMENDED BY: David S. Watson 8/26/25
DIRECTOR, OFFICE OF DESIGN DATE

RECOMMENDED BY: Matthew M Burke 8/26/25
DIVISION DIRECTOR DATE

RECOMMENDED BY: Rochelle Hosley 08/26/25
TRAFFIC ENGINEER DATE

RECOMMENDED BY: Charles J Whetstone 08/28/2025
DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT DATE

RECOMMENDED BY: Kevin E. Wisely 8/28/25
DIRECTOR OF MAINTENANCE AND OPERATIONS DATE

APPROVED BY: 08/28/2025
CHIEF ENGINEER DATE

ALIGNMENT

ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
£	BASELINE
BRG	BEARING
¡	CENTERLINE
CS	CURVE TO SPIRAL
e	SUPERELEVATION RATE (CROSS SLOPE)
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
E	CENTER CORRECTION OF VERTICAL CURVE
§	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPING SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

TOPOGRAPHY (DRAINAGE)

ABBR.	DESCRIPTION
BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CIP	CAST IRON PIPE
¦ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DS	DRAINAGE STRUCTURE PIPE
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELEV	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
HW	HEADWALL
INV	INVERT
MH	MANHOLE
MHW	MEAN HIGH WATER
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE

08/15/2025

TOPOGRAPHY (MISCELLANEOUS)

ABBR.	DESCRIPTION
ABUT	ABUTMENT
AOBE	AS ORDERED BY ENGINEER
ASPH	ASPHALT
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
CC	CENTER TO CENTER
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
D	DEED DISTANCE
DM	DIRECT MEASUREMENT
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FEE	FEE ACQUISITION
FEE WO/A	FEE ACQUISITION WITHOUT ACCESS
FP	FENCE POST
FD	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
IP	IRON PIN OR IRON PIPE
MB	MAILBOX
MON	MONUMENT
N&W	NAIL AND WASHER
OG	ORIGINAL GROUND
O/H	OVERHEAD
P	PARCEL
PAV'T	PAVEMENT
PE	PERMANENT EASEMENT
PED POLE	PEDESTRIAN POLE
¢	PROPERTY LINE
POR	PORCH
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
SH	STATE HIGHWAY
SHLDR	SHOULDER
SPK	SPIKE
ST	STREET
STK	STAKE
STY	STORY
SW	SIDEWALK
TE	TEMPORARY EASEMENT
TO	TEMPORARY OCCUPANCY
U/G	UNDERGROUND
WW	WING WALL

UTILITIES

ABBR.	DESCRIPTION
E	ELECTRIC
EMH	ELECTRIC MANHOLE
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE LINE)
GV	GAS VALVE (MAIN LINE)
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
PP	POWER POLE
SA	SANITARY SEWER
SMH	SANITARY MANHOLE
ST	STORM SEWER
T	TELEPHONE
TCB	TRAFFIC CONTROL BOX
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TMH	TELEPHONE MANHOLE
CTV	CABLE TELEVISION
W	WATER
WSB	WATER SERVICE BOX (HOUSE LINE)
WV	WATER VALVE (MAIN LINE)

SUBSURFACE EXPLORATION

ABBR.	DESCRIPTION
REPLACE ABBREVIATION "AB" WITH:	
AH	HAND AUGER
CP	CONE PENETROMETER
DA	2, INCHES CASED DRILL HOLE
DM	DRILLING MUD
DN	4 INCHES CASED DRILL HOLE
FH	HOLLOW FLIGHT AUGER
PA	POWER AUGER
PH	PROBE
PT	PERCOLATION TEST HOLE
RP	1 INCH SAMPLER (RETRACTABLE PLUG)
	TO BE DEFINED AT THE TIME OF EXPLORATION
SP	SEISMIC POINT
TP	TEST PIT
ABBREVIATION "C" IN CATEGORIES: DA, DM, DN, AND FH WITH:	
B	BRIDGE
C	CUT
D	DAM
F	FILL
K	CULVERT
W	WALL
X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

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

INDEX OF DRAWINGS

SHEET NO.	DRAWING NO.	DESCRIPTION
1	COVER	COVER SHEET
2	INDEX	INDEX & ABBREVIATIONS
3 - 4	LEG-1 & LEG-2	LEGEND - LINE AND POINT SYMBOLOGY
5 - 8	TYP-01 TO TYP-04	TYPICAL SECTIONS
9	SS-1	STANDARD SHEET LISTING AND WORK TYPE TABLES
10 -11	WZN-01 & WZN-02	WORK ZONE TRAFFIC CONTROL GENERAL NOTES
12 -16	WZS-01 TO WZS-05	WORK ZONE TRAFFIC CONTROL SECTIONS
17- 47	WZP-01 TO WZP-31	WORK ZONE TRAFFIC CONTROL GENERAL PLANS
48	SC-1	SURVEY CONTROL DATA
49	BLT-1	BASELINE TIES
50 - 51	ALG-01 & ALG-02	GENERAL ALIGNMENT PLANS
52 - 54	MST-01 TO MST-03	MISCELLANEOUS TABLES
55 - 56	ES-1 & ES-2	EARTHWORK SUMMARY SHEETS
57 - 60	EWP-01 TO EWP-04	GENERAL EARTHWORK PLANS
61 - 64	ESC-1 TO ESC-4	EROSION AND SEDIMENT CONTROL PLANS
65 - 66	ECD-1 & ECD-2	EROSION AND SEDIMENT CONTROL DETAILS
67 - 70	GNP-01 TO GNP-04	GENERAL HIGHWAY PLAN
71 - 76	PRO-01 TO PR0-06	HIGHWAY GENERAL PROFILE
77 - 82	GRR-01 TO GRR-06	GUIDE RAIL REMOVAL PLAN
83 - 87	GRP-01 TO GRP-05	GUIDE RAIL INSTALLATION PLAN
88 - 91	SPM-01 TO SPM-04	SIGNS AND PAVEMENT MARKINGS
92	SGT-01	SIGNS TABLE
93 - 94	SWP-1 & SWP-2	STORMWATER MANAGEMENT PLAN
95	SWD-1	STORMWATER MANAGEMENT DETAILS
96	OSN-01	OVERHEAD SIGN STRUCTURE GENERAL NOTES
97 - 98	OSP-01 & OSP-02	OVERHEAD SIGN STRUCTURE GENERAL PLAN & ELEVATION
99 - 107	OSD-01 TO OSD-09	OVERHEAD SIGN STRUCTURE SPAN STRUCTURES
108 - 110	ITS-1 TO ITS-3	ITS PLAN & DETAILS
111 - 167	ST-1 TO ST-57	BRIDGE PLANS

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
INDEX & ABBREVIATIONS

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: INDEX

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: M. SEIDEL
DRAFTED BY: M. MURPHY
CHECKED BY: G. ARADHYA
CHECKED BY: M. SEIDEL

FILE NAME = 0214810_sccb_02_ind.dgn
DATE/TIME = 12/14/2025 07:31
USER = dhoerner

ALIGNMENT

STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)
	AD_P	DETOUR
	AT_P	TRANSITION CONTROL

BRIDGE

STYLE	NAME	DESCRIPTION
	BR	RAIL
	BSHT	SHEET PILING

CONTROL

STYLE	NAME	DESCRIPTION
CB	CB	BASELINE
	CBPR	BASELINE, PROJECTION

DRAINAGE

STYLE	NAME	DESCRIPTION
ST	DCP	CULVERT PIPE
ST	DCP_P	CULVERT PIPE (DIR)
	DDG_P	DITCH, GRASS LINED
	DDP_P	DITCH, PAVED INVERT
	DDS_P	DITCH, STONE LINED
	DFL_P	FLOW LINE
	DSSD	SLOTTED DRAIN
UD	DUD_P	UNDERDRAIN

ENVIRONMENTAL

STYLE	NAME	DESCRIPTION
	ECT	CURTAIN, TURBIDITY
	EDMC	DAM, COFFER
	EDMEC_P	DAM, EARTHEN CHECK
	EDMGSC_P	DAM, GRAVEL BAG/SAND BAG CHECK
	EDMPC_P	DAM, PREFABRICATED CHECK
	EDMSC_P	DAM, STONE CHECK
	EFNS	FENCE, SILT
	EFNSV	FENCE, SILT & VEGETATION
	EFNV	FENCE, VEGETATION
FL	ESFL	FILTER, SEDIMENT LOG
AA	EWAA_P	WETLAND, ADJACENT AREA
FW	EWF	WETLAND, FEDERAL
FW SW	EWFS	WETLAND, FEDERAL AND STATE
WM	EWM	WETLAND, MITIGATION AREA
SW	EWS	WETLAND, STATE

LANDSCAPE

STYLE	NAME	DESCRIPTION
	LABL	AREA, BRUSH LINE
	LAHR	AREA, HEDGE ROW
	LAPB	AREA, PLANTING BED
	LAWA	AREA, WOODED AREA OUTLINE
	LAWE	AREA, WATERS EDGE
	LCUT_P	CUT LIMIT
	LFILL_P	FILL LIMIT
	LFNC	FENCE
	LTRC	TREE ROW, CONIFEROUS
	LTRD	TREE ROW, DECIDUOUS
	LWH	WALL, H PILE
	LWR	WALL, RETAINING
	LWS	WALL, STONE

ROW MAPPING

STYLE	NAME	DESCRIPTION
	MDL	DEED LINE
PE	MEE	EASEMENT, EXISTING
PE	MEP_P	EASEMENT, PERMANENT
APE	MEPA_P	EASEMENT, PERMANENT, APPROX.
TE	MET_P	EASEMENT, TEMPORARY
ATE	META_P	EASEMENT. TEMPORARY, APPROX.
FEE	MF_P	FEE ACQUISITION, W/ ACCESS
AFEE	MFA_P	FEE ACQUISITION, APPROXIMATE
	MFS_P	FEE ACQUISITION, SHAPE
FEE W / OA	MFWOA_P	FEE ACQUISITION, W/O ACCESS
	MHA	HISTORICAL, ACQUISITION
HB	MHB	HIGHWAY BOUNDARY, W/ ACCESS
AHB	MHBA	HIGHWAY BOUNDARY, APPROX.
	MHBW	HWY BOUNDARY, FACE OF WALL
HB W / OA	MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS
	MJC	JURISDICTION, CITY
	MJCY	JURISDICTION, COUNTY
	MJHD	JURISDICTION, HISTORIC DISTRICT
	MJLL	JURIS., (GREAT, MILITARY) LOT LINE
	MJN	JURISDICTION, NATION
	MJPB	JURISDICTION, PUBLIC LANDS
	MJS	JURISDICTION, STATE
	MJT	JURISDICTION, TOWN
	MJV	JURISDICTION, VILLAGE
PL	MPL	PROPERTY LOT LINE
APL	MPLA	PROPERTY LOT LINE, APPROXIMATE
Z	MSL	SUB LOT LINE

ROADWAY

STYLE	NAME	DESCRIPTION
CZ	RCZ_P	CLEAR ZONE
	RG	GUIDE RAIL, MISCELLANEOUS
	RGB	GUIDE RAIL, BOX BEAM
	RGBM	GUIDE RAIL, BOX BEAM, MEDIAN
	RGC	GUIDE RAIL, CABLE
	RGCB	GUIDE RAIL, CONCRETE BARRIER
	RGP_P	GUIDE POST
	RGW	GUIDE RAIL, W BEAM
	RGWM	GUIDE RAIL, W BEAM, MEDIAN
	RPB	PARKING BUMPER
	RRC	RAIL ROAD, CATENARY
3R	RRER	RAIL ROAD, 3RD RAIL
	RRPLS_P	RAIL, PHOTO, LARGE SCALE
	RRPSS	RAIL, PHOTO, SMALL SCALE
	RRS	RUMBLE STRIP
	RRSLS_P	RAIL, SURVEY, LARGE SCALE
	RRSSS	RAIL, SURVEY, SMALL SCALE

SIGNS

STYLE	NAME	DESCRIPTION
	SBLB	BILLBOARDS
	SM	MULTIPLE POST
	SSO	STRUCTURE, OVERHEAD
	SSOC	STRUCTURE, OVHD. CANTILEVER

STRIPING

STYLE	NAME	DESCRIPTION
	STB*	BROKEN LINE
	STDB*	DOUBLE BROKEN LINE
	STDL*	DOTTED LINE LONG
	STDS*	DOTTED LINE SHORT
	STFB*	FULL BARRIER LINE
	STH*	HATCH LINE
	STPB*	PARTIAL BARRIER LINE
	STRCT	ROUNDABOUT, CAT TRACKS
	STRYL	ROUNDABOUT, YIELD LINE
	STSB	STOP BAR
	STSE*	SOLID, EDGE
	STXL	X WALK, LADDER LINE
	STXLB	X WALK, LADDER BAR LINE

* = W (WHITE) OR Y (YELLOW)

TRAFFIC CONTROL

STYLE	NAME	DESCRIPTION
	TCSW	SIGNAL, SPAN WIRE

TRAFFIC WORK ZONE

STYLE	NAME	DESCRIPTION
	TWZBT_P	BARRIER, TEMPORARY
	TWZBTWL_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	TWZCD_P	CHANNELIZING DEVICE
	TWZPMRC_P	PAVEMENT MARKING REMOVAL OR COVERING

UTILITIES

STYLE	NAME	DESCRIPTION
C	UC	CONDUIT, UNDERGROUND
]C[	UCH	CONDUIT, HANGING
OC	UCO	CONDUIT, OVERHEAD
E	UE	ELECTRIC LINE, UNDERGROUND
]E[	UEH	ELECTRIC LINE, HANGING
OE	UEO	ELECTRIC LINE, OVERHEAD
OET	UETO	ELECTRIC TRANSMISSION, OVERHEAD
	UESS	ELECTRIC, SUBSTATIONS
FO	UFO	FIBER OPTIC, UNDERGROUND
]FO[	UFOH	FIBER OPTIC, HANGING
OFO	UFOO	FIBER OPTIC, OVERHEAD
G	UG	GAS, UNDERGROUND
]G[	UGH	GAS, HANGING
OG	UGO	GAS, OVERHEAD
IC	UIC	INFORM CABLE, UNDERGROUND
]IC[	UICH	INFORM CABLE, HANGING
O	UO	OIL LINE, UNDERGROUND
]O[	UOH	OIL LINE, HANGING
	UPBP	POLE, BRACE, PUSH BRACE
	UPGW	POLE, GUY WIRE
SA	USA	SANITARY SEWER, UNDERGROUND
]SA[	USAH	SANITARY SEWER, HANGING
SAF	USAF	SANITARY SEWER, FORCE MAIN, UGND
]SAF[	USAFH	SANITARY SEWER, FORCE MAIN, HANG
T	UT	TELEPHONE, UNDERGROUND
]T[	UTH	TELEPHONE, HANGING
OT	UTO	TELEPHONE, OVERHEAD
CTV	UTV	CABLE TV, UNDERGROUND
]CTV[	UTVH	CABLE TV, HANGING
OCTV	UTVO	CABLE TV, OVERHEAD
UU	UUU	UNKNOWN, UNDERGROUND
]UU[	UUH	UNKNOWN, HANGING
OUU	UUO	UNKNOWN, OVERHEAD
W	UW	WATER LINE, UNDERGROUND
]W[	UWH	WATER LINE, HANGING
OW	UWO	WATER LINE, OVERHEAD

08/15/2025

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: LEGEND LINE SYMBOLOGY
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: LEG-1

DESIGNED BY: M. SEIDEL
DRAFTED BY: M. MURPHY
CHECKED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 021481O_sht_02_leg_02.dgn
DATE/TIME = 8/15/2025 07:31
USER = dhoerner

ALIGNMENT

CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE
	ACOGO	COGO
	ACS	CURVE TO SPIRAL
	ADPI_P	DETOUR, POINT OF INTERSECT.
	ADPL_P	DETOUR, POINT ON LINE
	AEQN	EQUATION
	AEQNAHD	EQUATION AHEAD
	AEQNBK	EQUATION BACK
	AEVT	EVENT STATION
	APC	POINT OF CURVATURE
	APCC	POINT OF COMPOUND CURVATURE
	API	POINT OF INTERSECTION
	APOB	POINT OF BEGINNING
	APOC	POINT OF CURVATURE
	APOE	POINT OF END
	APOL	POINT ON LINE
	APOS	POINT ON SPIRAL
	APOT	POINT ON TANGENT
	APOVC	POINT ON VERTICAL CURVE
	APOVT	POINT ON VERTICAL TANGENT
	APRC	POINT ON REVERSE CURVE
	APT	POINT OF TANGENCY
	APVC	POINT OF VERTICAL CURVATURE
	APVCC	POINT OF VERT. CMPND CURVE
	APVI	POINT OF VERT. INTERSECTION
	APVRC	POINT OF VERT. REVERSE CURVE
	APVT	POINT OF VERTICAL TANGENCY
	ASC	SPIRAL TO CURVE
	ASPI	SPIRAL POINT OF INTERSECTION
	ASTS	SPIRAL TO SPIRAL
	AST	SPIRAL TO TANGENT
	ATS	TANGENT TO SPIRAL
	AVEVT	VERTICAL EVENT POINT
	AVHIGH	VERTICAL HIGH POINT
	AVLOW	VERTICAL LOW POINT

BRIDGE

	BSC	BRIDGE, SCUPPER

CONTROL

	CBP	BASELINE, POINT
	CBPOL	BASELINE, POINT ON LINE
	CBSP	BASELINE, SPUR POINT
	CBTP	BASELINE, TIE POINT
	CPBM	BENCHMARK
	CPH	POINT, HORIZ. PHOTOGRAMMETRY
	CPSM	POINT, SURVEY MARKER, PERM.
	CPV	POINT, VERT., PHOTOGRAMMETRY

DRAINAGE

CELL	NAME	DESCRIPTION
	DINV	INVERT
	DS	STRUCTURE, RECTANGULAR
	DSI	STRUCTURE, INVERT
	DSM	STRUCTURE, MANHOLE
	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 84, 96
	DSR	STRUCTURE, ROUND
	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R
	DST"X"_P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U

ENVIRONMENTAL

CULV	EIOP_P	STR., INLET, OUTLET PROT.
GB	EIPGB_P	STR., INLET PROT., GRAVEL BAG
FL	EIPEFL_P	STR., INLET PROT., FILTER LOG
PRFB	EIPP_P	STR., INLET PROT., PREFAB.
SF	EIPSF_P	STR., INLET PROT., SILT FENCE
	ERCB	RISER, CONCRETE BOX
	ETRS_P	TRAP, SEDIMENT
	EWFG	WETLAND FLAG

GEOTECHNICAL

	GDH	DRILL HOLE

LANDSCAPE

	LELS	ELEVATION, SPOT
	LFP	FLAG POLE
	LMB	MAILBOX
	LPB	PAPER BOX
	LPST	POST, SINGLE
	LRB	ROCK, BOULDER
	LSHC	SHRUB, CONIFEROUS
	LSHD	SHRUB, DECIDUOUS
	LTC	TREE, CONIFEROUS
	LTD	TREE, DECIDUOUS
	LTS	TREE, STUMP
	LTW_P	TREE, WELL OR WALL
	LUKP	UNKNOWN POINT

08/15/2025

ITS

CELL	NAME	DESCRIPTION
A	IANT_P	ANTENNAS
AD	IASCTS	ACCOU. SPEED/COUNT SNSR.S
P	ICABPAD	CABINET & PAD
	ICCTV	CCTV SITE
CDPD	ICDPD	CDPD TRANSCEIVER
	ICELLT	CELL PHONE TOWER
	ICJB	CONDUIT JACK OR BORING
	ICNTLCAB	CONTROLLER CABINET
C	ICPB	COMMUNICATION PULL BOX
	ICTD	CONDUIT TURNING DOWN
	ICTU	CONDUIT TURNING UP
VC	ICVTRT	COMM. VEH. ROAD TRANSCEIVER
	IDEFAULT	DEFAULT
EZ	IEZR	E-ZPASS READER
EZ-T	IEZTR	TRANSMITTAL READER
XC	IFOXCAB	FIBER OPTIC X-CONNECT CABINET
	IFUSSPL	FUSION SPLICE
	IHARADV	HAR ADVISORY SIGN
H	IHARST	HAR SITE
LC	ILC	LOAD CENTER
	IMECSPL	MECHANICAL SPLICE
PM	IMSCS	PORT. SPEED & COUNT SENSOR
M	IMSCTS	MICRO SPEED & COUNT SENSOR
M	IMT	MICROWAVE TRANSCEIVER
VMS	IOVHVMS	PERM. OVERHEAD VMS
PA	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR
	IPEDS	PEDESTRIAN SIGNAL HEAD
	IPSS	PAVEMENT SURFACE SENSOR
PVMS	IPVMS	PERM. VMS
RM	IRM	RAMP METER
RWIS	IRWIS	RDWY WEATHER INFO. SENSOR
	ISP	SOLAR PANEL
SS	ISST	SPREAD SPECT. TRANSCEIVER
TC	ITDB	TELEPHONE DEMARCATION BLK
TP	ITP	SUBSURFACE TEMP. PROBE
	IVTRT	VEHICLE TO RDWY TRANSCEIVER
WIM	IWIMD	WEIGHT IN MOTION DETECTOR
WVR	IWVR	WIRELESS VIDEO REPEATER
V	IWVRC	WIRELESS VIDEO RECEIVER
V	IWVTT	WIRELESS VIDEO TRANSMITTER

ROW MAPPING

CELL	NAME	DESCRIPTION
	MDL1P	DEED LINE, TYPE 1
	MDL2P	DEED LINE, TYPE 2
	MDL3P	DEED LINE, TYPE 3
	MDL4P	DEED LINE, TYPE 4
	MDL5P	DEED LINE, TYPE 5
	MEEP	EASEMENT, EXISTING
A	MEPAP_P	EASEMENT, PERM., APPROX.
	MEPP_P	EASEMENT, PERM., BACK LINE
	MEPSP_P	EASEMENT, PERM., SHAPE
	MFAP_P	FEE ACQUISITION, APPROX.
	MFP_P	FEE ACQUISITION, BACK LINE
	MFSP_P	FEE ACQUISITION, SHAPE
	MHBAP	HIGHWAY BNDRY., APPROX.
	MHBCP	HISTORICAL, BLDG. CORNERS
	MHBP	HIGHWAY BNDRY, PT.
	MJCP	PT., JURIS. CITY
	MPBC	PT., BUILDING CORNER
	MPCC	PT., CROSS CUT
	MPDH	PT., DRILL HOLE
	MPF	PT., FENCE LOCATION
	MPIP	PT., IRON PIPE
	MPIR	PT., IRON ROD
	MPM	PT., MONUMENT
	MPMM	PT., MONUMENT, MISC.
	MPN	PT., NAIL
	MPRS	PT., RAILROAD SPIKE
	MPSP	PT., SPIKE
	MPST	PT., STAKE
	MPTW	PT., TREE W/ WIRE
	MPWL	PT., WALL LOCATION

ROW ACQUISITION

M1 P1 FEE	MFS_P_T	FEE ACQUISITION
M1 P1 PE	MEPS_P_T	EASEMENT, PERMANENT
M1 P1 TE	METS_P_T	EASEMENT, TEMPORARY
M1 P1 TO	METS_P_T	OCCUPANCY, TEMPORARY
M1 P1 FEE W/O A	MFS_P_T	FEE ACQUISITION W/O ACCESS

ROADWAY

	RES_P	ELEVATION, SPOT
	RGA	GUIDE RAIL, ANCHOR
	RGP	GUIDE POST, SINGLE

SIGNS

CELL	NAME	DESCRIPTION
	S	SINGLE POST
	S_P	SINGLE POST, PROPOSED
	SB_P	BACK TO BACK, PROPOSED
	SDEL	DELINEATORS
	SPM	PARKING METER
RFM	SRM	REFERENCE MARKERS
	SRSC3	SHLD, CTY, 123 DIG.
	SRSC4	SHLD, CTY, 4 DIG.
	SRSCT2	SHLD, CTY TOUR, 1-2 DIG.
	SRSCT4	SHLD, CTY TOUR, 3-4 DIG.
	SRSI	SHLD, INTERSTATE
	SRSN2	SHLD, NATIONAL, 2 DIG.
	SRSN3	SHLD, NATIONAL, 3 DIG.
	SRSS2	SHLD, STATE, 2 DIG.
	SRSS3	SHLD, STATE, 3 DIG.
	SRSS4	SHLD, STATE, 4 DIG.

TRAFFIC CONTROL

	TCBJ	BOX, JUNCTION
	TCBP	BOX, PULL BOX
	TCBS	BOX, SPLICE
	TCMC	MICROCOMPUTER CABINET
	TCPP	PED POLE
	TCSH	SIGNAL HEADS
	TCSP	SIGNAL POLE

TRAFFIC WORK ZONE

	TWZAP_P	ARROW PANEL
	TWZAPC_P	ARROW PANEL, CAUTION MODE
	TWZAPT_P	ARROW PANEL, TRAILER OR SUPPORT
	TWZBCD_P	BARRICADE (TYPE III)
	TWZCMS_P	CHANGEABLE MESSAGE SIGN (PVMS)
	TWZFLG_P	FLAGGER
	TWZFT_P	FLAG TREE
	TWZIA_P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)
	TWZLUM_P	LUMINAIRE (TEMPORARY)
	TWZSDT_P	SYMBOL, DIRECTION OF TRAFFIC
	TWZSDTD_P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR
	TWZSGN_P	SIGN (TEMPORARY)
	TWZSIG_P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)
	TWZWL_P	WARNING LIGHT
	TWZWV_P	WORK VEHICLE
	TWZWVA_P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

UTILITIES

CELL	NAME	DESCRIPTION
E	UEB	ELECTRIC, BOX
E	UEM	ELECTRIC, METER
E	UEMH	ELECTRIC, MANHOLE
	UEPT	ELECTRIC, POLE, TRANS.
G	UGM	GAS, METER
G	UGMH	GAS, MANHOLE
	UGLM	GAS, LINE MARKER
FP	UGP	GAS/FUEL PUMP
	UGV	GAS, VALVE
	UGVT	GAS, VENT
	ULP	LIGHTING, POLE
	ULPM	LIGHTING, POLE, MEDIAN
	ULPP	LIGHTING, POLE, PED.
	UMFC	MISC. FILLER CAP
	UOLM	OIL, LINE MARKER
	UP	POLE, WITH UTILITY
	UPD	POLE, DEAD (NO UTILITY)
	UPL	POLE, WITH LIGHT
S	USMH	SANITARY SEWER MANHOLE
P	UTB	TELEPHONE, BOOTH
	UTLM	TELEPHONE, LINE MARKER
T	UTMH	TELEPHONE, MANHOLE
	UTVLM	CABLE TV, LINE MARKER
C	UTVPB	CABLE TV, PULL BOX
	UUB	UNKNOWN, BOX
	UUJB	UNKNOWN, JUNCTION BOX
	UUMH	UNKNOWN, MANHOLE
	UUPB	UNKNOWN, PULL BOX
	UUVL	UNKNOWN, VALVE
	UUVT	UNKNOWN, VENT
W	UUW	UNKNOWN, WELL
Q	UWFH	WATER, FIRE HYDRANT
W	UWM	WATER, METER
W	UWMH	WATER, MANHOLE
	UWV	WATER, VALVE
W	UWW	WATER, WELL

M. SEIDEL — CHECKED BY:
M. MURPHY — DRAFTED BY:
G. ARADHYA — CHECKED BY:
M. SEIDEL — DESIGNED BY:
B. REYNOLDS — DESIGN SUPERVISOR:

FILE NAME = 021A810_gph_02_leg_01.dgn
DATE/TIME = 12-AUG-2025 07:51
USER = dhoerner

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

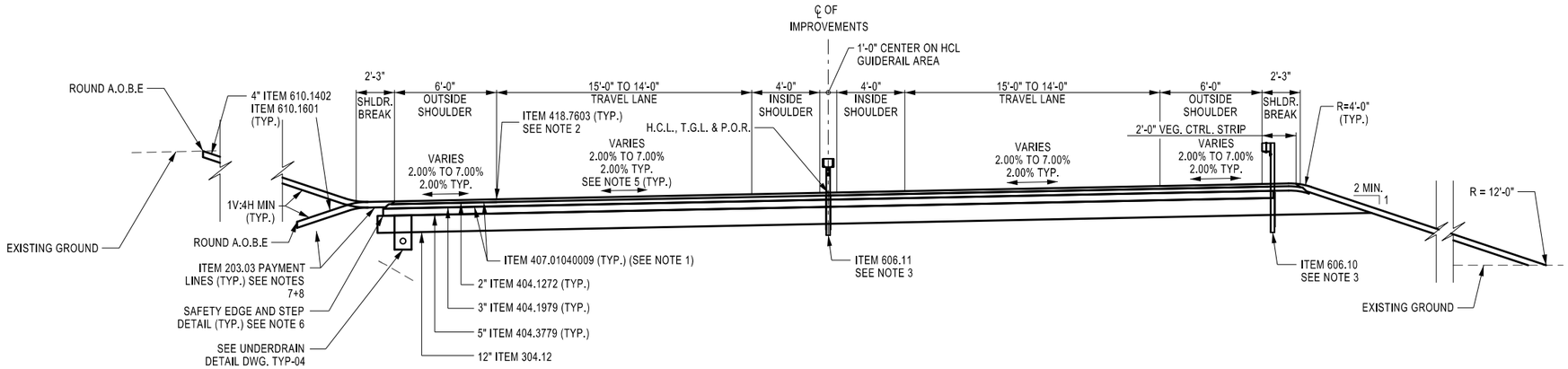
BERGMANN
ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

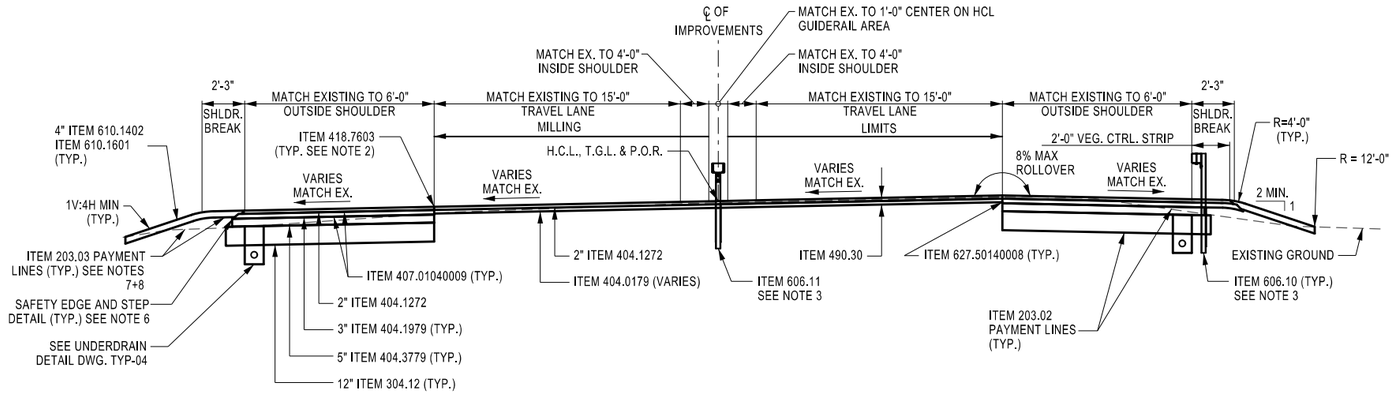
TITLE OF DRAWING
LEGEND
POINT SYMBOLOGY

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: LEG-2



RAMP A + G RECONSTRUCTION

N.T.S.
STA. A 14+00.00 TO STA. A 20+31.42
STA. A 23+41.08 TO STA. A 27+00.00 (READ OPPOSITE)



RAMP A + G MILLING WITH SHOULDER RECONSTRUCTION

N.T.S.
STA. A 13+00.00 TO STA. A 14+00.00

NOTES:

1. NON-TRACKING TACK COAT SHALL BE APPLIED BETWEEN ALL PAVEMENT COURSES AND ON THE MILLED SURFACE.
2. PAVEMENT JOINT ADHESIVE SHALL BE APPLIED AT ALL PAVEMENT JOINTS.
3. REFER TO GUIDE RAIL TABLE ON MST-1 FOR GUIDE RAIL LOCATIONS.
4. REFER TO UNDERDRAIN TABLE ON MST-1 FOR LOCATIONS OF UNDERDRAIN.
5. SEE PROFILE FOR LIMITS OF SUPERELEVATION.
6. SEE DWG. TYP-04 FOR SAFETY EDGE AND STEP DETAIL.
7. CONSTRUCT BENCHES IN ACCORDANCE WITH "EARTH BENCHING DETAILS" ON STANDARD SHEET 203-02, TITLED "EARTHWORK TRANSITION AND BENCHING DETAILS." PAYMENT UNDER ITEMS 203.02 AND 203.03.
8. A MINIMUM WAITING PERIOD OF 30 DAYS SHALL BE PROVIDED BETWEEN COMPLETING PLACEMENT OF THE PROPOSED EMBANKMENT FILL AND THE PLACEMENT OF THE SUBBASE MATERIAL TO ALLOW FOR CONSOLIDATION OF THE SUBGRADE SOILS AND TO MINIMIZE DIFFERENTIAL SETTLEMENT.

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF
203.03	EMBANKMENT IN PLACE	CY	490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY	605.0901	UNDERDRAIN FILTER TYPE 1	CY
304.12	SUBBASE COURSE, TYPE 2	CY	605.1702	OPTIONAL UNDERDRAIN PIPE, 6 INCH DIAMETER	LF
404.0179	TRUING & LEVELING F9 ASPHALT, 70 SERIES COMPACTION	TON	606.10	BOX BEAM GUIDE RAILING	LF
404.1272	12.5 F2 TOP COURSE ASPHALT, 70 SERIES COMPACTION	TON	606.11	BOX BEAM MEDIAN BARRIER	LF
404.1979	19 F9 BINDER COURSE ASPHALT, 70 SERIES COMPACTION	TON	610.1402	TOPSOIL - ROADSIDE	CY
404.3779	37.5 F9 BASE COURSE ASPHALT, 70 SERIES COMPACTION	TON	610.1601	TURF ESTABLISHMENT - ROADSIDE	SY
407.01040009	NON-TRACKING TACK COAT	GAL	627.50140008	CUTTING PAVEMENT	LF

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

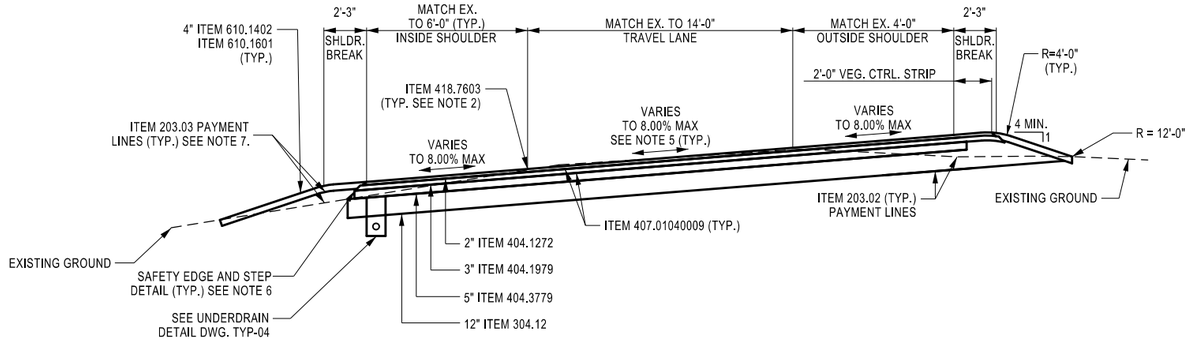
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
HIGHWAY
TYPICAL SECTIONS
(1 OF 4)

CONTRACT NUMBER: TAB 25-17B

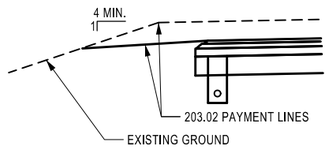
DATE: 8/15/2025

DRAWING NUMBER: TYP-01



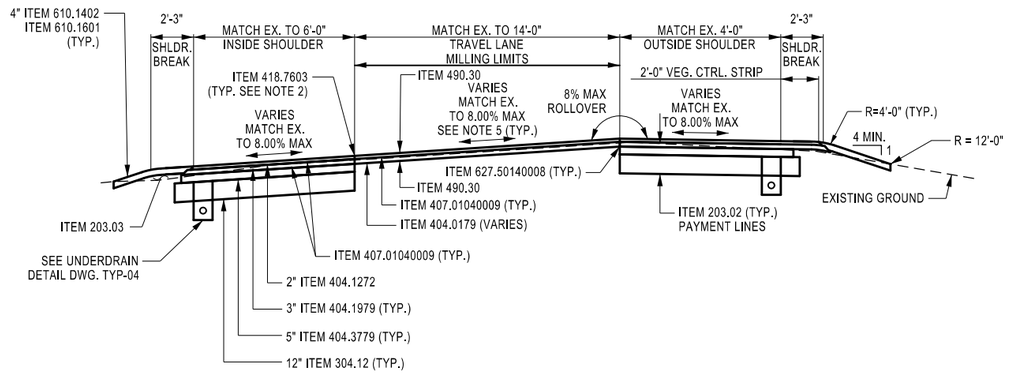
RAMPS F+H RECONSTRUCTION

N.T.S.
STA. F 11+00.00 TO STA. F 14+83.31
STA. H 11+00.00 TO STA. H 13+46.41 (READ OPPOSITE)



ALTERNATE EDGE DETAIL

N.T.S.
STA. H 11+25.00 TO STA. H 13+25.00



RAMPS F+H MILLING WITH SHOULDER RECONSTRUCTION

N.T.S.
STA. F 10+00.00 TO STA. F 11+00.00
STA. H 10+00.00 TO STA. H 11+00.00 (READ OPPOSITE)

NOTES:

1. NON-TRACKING TACK COAT SHALL BE APPLIED BETWEEN ALL PAVEMENT COURSES AND ON THE MILLED SURFACE.
2. PAVEMENT JOINT ADHESIVE SHALL BE APPLIED AT ALL PAVEMENT JOINTS.
3. REFER TO GUIDE RAIL TABLE ON MST-1 FOR GUIDE RAIL LOCATIONS.
4. REFER TO UNDERDRAIN TABLE ON MST-1 FOR LOCATIONS OF UNDERDRAIN.
5. SEE PROFILE FOR LIMITS OF SUPERELEVATION.
6. SEE DWG. TYP-04 FOR SAFETY EDGE AND STEP DETAIL.
7. CONSTRUCT BENCHES IN ACCORDANCE WITH "EARTH BENCHING DETAILS" ON STANDARD SHEET 203-02, TITLED "EARTHWORK TRANSITION AND BENCHING DETAILS." PAYMENT UNDER ITEMS 203.02 AND 203.03.
8. A MINIMUM WAITING PERIOD OF 30 DAYS SHALL BE PROVIDED BETWEEN COMPLETING PLACEMENT OF THE PROPOSED EMBANKMENT FILL AND THE PLACEMENT OF THE SUBBASE MATERIAL TO ALLOW FOR CONSOLIDATION OF THE SUBGRADE SOILS AND TO MINIMIZE DIFFERENTIAL SETTLEMENT.

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF
203.03	EMBANKMENT IN PLACE	CY	490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY	605.0901	UNDERDRAIN FILTER TYPE 1	CY
304.12	SUBBASE COURSE, TYPE 2	CY	605.1702	OPTIONAL UNDERDRAIN PIPE, 6 INCH DIAMETER	LF
404.0179	TRUING & LEVELING F9 ASPHALT, 70 SERIES COMPACTION	TON	606.10	BOX BEAM GUIDE RAILING	LF
404.1272	12.5 F2 TOP COURSE ASPHALT, 70 SERIES COMPACTION	TON	610.1402	TOPSOIL - ROADSIDE	CY
404.1979	19 F9 BINDER COURSE ASPHALT, 70 SERIES COMPACTION	TON	610.1601	TURF ESTABLISHMENT - ROADSIDE	SY
404.3779	37.5 F9 BASE COURSE ASPHALT, 70 SERIES COMPACTION	TON	627.50140008	CUTTING PAVEMENT	LF
407.01040009	NON-TRACKING TACK COAT	GAL			

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025
SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

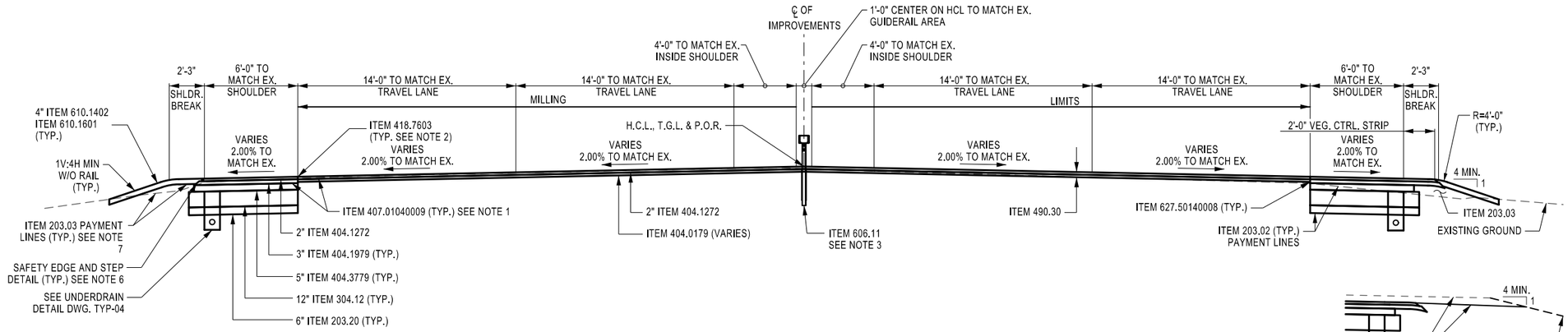
PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
HIGHWAY
TYPICAL SECTIONS
(2 OF 4)

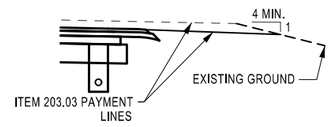
CONTRACT NUMBER: TAB 25-17B
DATE: 8/15/2025
DRAWING NUMBER: TYP-02



COMBINED RAMP MILLING WITH SHOULDER RECONSTRUCTION

N.T.S.

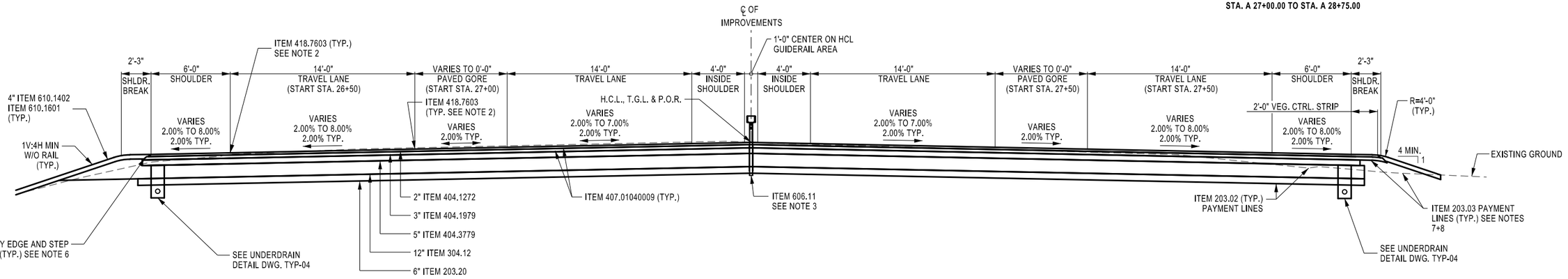
STA. A 29+75.00 TO STA. A 30+25.00



ALTERNATE EDGE DETAIL

N.T.S.

STA. A 27+00.00 TO STA. A 28+75.00



COMBINED RAMP RECONSTRUCTION

N.T.S.

STA. A 27+00.00 TO STA. A 29+75.00

NOTES:

1. NON-TRACKING TACK COAT SHALL BE APPLIED BETWEEN ALL PAVEMENT COURSES AND ON THE MILLED SURFACE.
2. PAVEMENT JOINT ADHESIVE SHALL BE APPLIED AT ALL PAVEMENT JOINTS.
3. REFER TO GUIDE RAIL TABLE ON MST-1 FOR GUIDE RAIL LOCATIONS.
4. REFER TO UNDERDRAIN TABLE ON MST-1 FOR LOCATIONS OF UNDERDRAIN.
5. SEE PROFILE FOR LIMITS OF SUPERELEVATION.
6. SEE TYP-04 FOR SAFETY EDGE AND STEP DETAIL.
7. CONSTRUCT BENCHES IN ACCORDANCE WITH "EARTH BENCHING DETAILS" ON STANDARD SHEET 203-02, TITLED "EARTHWORK TRANSITION AND BENCHING DETAILS." PAYMENT UNDER ITEMS 203.02 AND 203.03.

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF
203.03	EMBANKMENT IN PLACE	CY	490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	CY
203.20	SELECT GRANULAR SUBGRADE	CY	605.0901	UNDERDRAIN FILTER TYPE 1	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY	605.1702	OPTIONAL UNDERDRAIN PIPE, 6 INCH DIAMETER	LF
304.12	SUBBASE COURSE, TYPE 2	CY	606.10	BOX BEAM GUIDE RAILING	LF
404.0179	TRUING & LEVELING F9 ASPHALT, 70 SERIES COMPACTION	TON	606.11	BOX BEAM MEDIAN BARRIER	LF
404.1272	12.5 F2 TOP COURSE ASPHALT, 70 SERIES COMPACTION	TON	610.1402	TOPSOIL - ROADSIDE	CY
404.1979	19 F9 BINDER COURSE ASPHALT, 70 SERIES COMPACTION	TON	610.1601	TURF ESTABLISHMENT - ROADSIDE	SY
404.3779	37.5 F9 BASE COURSE ASPHALT, 70 SERIES COMPACTION	TON	627.50140008	CUTTING PAVEMENT	LF
407.01040009	NON-TRACKING TACK COAT	GAL			

ALTERED ON:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

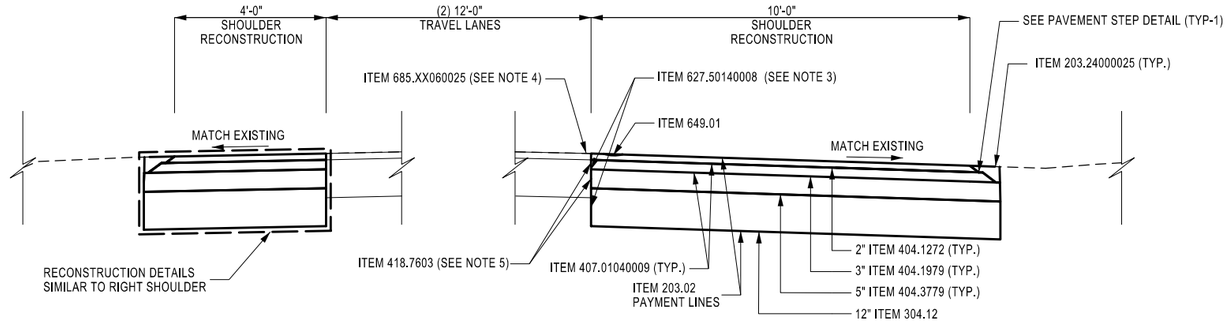
TITLE OF DRAWING
HIGHWAY
TYPICAL SECTIONS
(3 OF 4)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

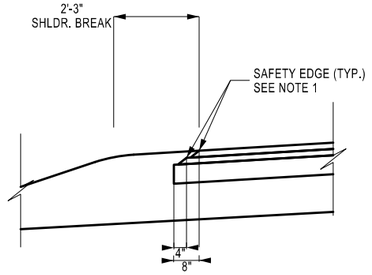
DRAWING NUMBER: TYP-03

CHECKED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
DESIGNED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL



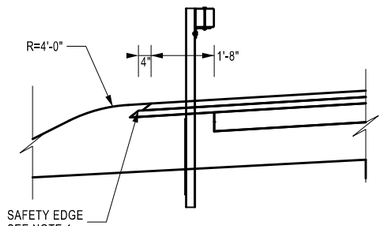
MAINLINE MILLING WITH SHOULDER RECONSTRUCTION

N.T.S.
STA. EB 8+75 TO STA. EB 11+10 RT
STA. EB 9+50 TO STA. EB 11+10 LT
STA. WB 9+50 TO STA. WB 11+10 RT & LT



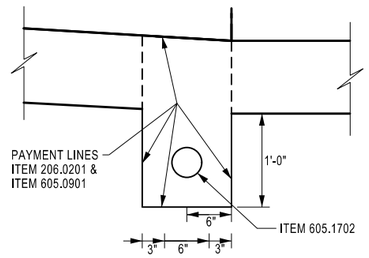
PAVEMENT STEP DETAIL WITHOUT GUIDERAIL

N.T.S.



PAVEMENT STEP DETAIL WITH GUIDERAIL

N.T.S.



UNDERDRAIN DETAIL

N.T.S

NOTES:

1. SAFETY EDGE TAPER IS TO BE 35 DEGREES FROM FINISHED GRADE.
2. PAVEMENT JOINT ADHESIVE SHALL BE APPLIED TO ALL PAVEMENT JOINTS IN THE TOP COURSE.
3. ACTUAL LOCATION OF LONGITUDINAL SAWCUT MAY BE A.O.B.E. BASED ON FIELD CONDITIONS. SAWCUT TO BE FULL DEPTH.
4. CONTRACTOR WILL REPLACE IF DISTURBED OR OTHERWISE REFRESH THE EDGE STRIPING PRIOR TO OPENING THE SHOULDERS A.O.B.E. STRIPING ON THE RIGHT SHOULDER IS TO BE 6" WHITE (ITEM 685.11060025) AND 6" YELLOW (ITEM 685.12060025) ON THE LEFT.
5. PAVEMENT JOINT ADHESIVE SHALL BE APPLIED TO ALL PAVEMENT JOINTS.
6. REFER TO UNDERDRAIN TABLE ON MST-01 FOR LOCATION OF UNDERDRAIN.

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	CY
203.03	EMBANKMENT IN PLACE	CY	605.0901	UNDERDRAIN FILTER TYPE 1	CY
203.24000025	SHOULDER BACKUP MATERIAL	TON	605.1702	OPTIONAL UNDERDRAIN PIPE, 6 INCH DIAMETER	LF
206.0201	TRENCH AND CULVERT EXCAVATION	CY	606.10	BOX BEAM GUIDE RAILING	LF
304.12	SUBBASE COURSE, TYPE 2	CY	606.11	BOX BEAM MEDIAN BARRIER	LF
404.0179	TRUING & LEVELING F9 ASPHALT, 70 SERIES COMPACTION	TON	610.1402	TOPSOIL - ROADSIDE	CY
404.1272	12.5 F2 TOP COURSE ASPHALT, 70 SERIES COMPACTION	TON	610.1601	TURF ESTABLISHMENT - ROADSIDE	SY
404.1979	19 F9 BINDER COURSE ASPHALT, 70 SERIES COMPACTION	TON	627.50140008	CUTTING PAVEMENT	LF
404.3779	37.5 F9 BASE COURSE ASPHALT, 70 SERIES COMPACTION	TON	649.01	MILLED-IN AUDUBLE ROADWAY DELINEATORS (MIARDS)	LF
407.01040009	NON-TRACKING TACK COAT	GAL	685.11060025	WHITE EPOXY REFLECTORIZED PAVEMENT MARKINGS, 20 MILS	LF
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF	685.12060025	YELLOW EPOXY REFLECTORIZED PAVEMENT MARKINGS, 20 MILS	LF

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: M. STONEMETZ
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025
SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)☐
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
HIGHWAY
TYPICAL SECTIONS
(4 OF 4)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: TYP-04

New York State Thruway Authority Standard Sheets

The following NYS Thruway Authority standard sheets, marked with an "X" in first column, apply to this project.

X	SHEET NO.	SUBJECT
X	TA 201-01	Clearing and Grubbing *(Dwg. CG)*
X	TA 203-01	Shoulder Backup 1R Projects *(Dwg. SB)*
	TA 203-02	Slope Flattening Details
	TA 404-01	Highway Pavement Repair Details *(Dwg. PRD)*
	TA 404-02	Bridge Deck Wearing Course Resurfacing *(Dwg. BDR)*
	TA 404-03	Overhead Bridge Underclearance Improvement *(Dwg. BU)*
X	TA 603-01	Culvert Extension Details
X	TA 605-01	Underdrain Details
	TA 606-01	Modified Thrie Beam (Mod.) Guiderail *(Dwg. GR-1)*
	TA 606-02	*Vacant*
	TA 606-03	Corrugated Median Barrier to Corrugated Beam Guide Railing Transition Detail D *(Dwg. GR-4)*
	TA 606-04	Box Beam to 42" Single Slope Half Section Concrete Barrier Pier Protection *(Dwg. GR-5)*
	TA 606-05	HPBO (Mod.) Corrugated Beam to 42" Single Slope Half Section Concrete Barrier Pier Protection *(Dwg. GR-6)*
	TA 606-06	Typical U-Turn Median Rail Layout and Roadway Transverse Section
	TA 606-07	Modified Thrie Beam Guiderail with Rock Rail
	TA 606-08	Transition HPBO Corrugated Beam Median Guide Railing to HPBO Corrugated Beam Guide Railing
	TA 611-01	Living Snow Fences
	TA 614-01	Tree Removal
X	TA 619-01	Work Zone Traffic Control Tables & Legend
X	TA 619-02	General Work Zone Traffic Control Notes & Channelizing Devices
X	TA 619-03	Shoulder Closure Short-Term or Intermediate-Term Stationary
X	TA 619-04	Shoulder Closure Short-Duration Stationary and Mobile
X	TA 619-05	Signing & Delineation for Shoulder Work Spaces with Temporary Concrete Barrier
X	TA 619-06	Work Beyond Shoulder
X	TA 619-07	Be Prepared to Stop and Uneven Lanes Signing
X	TA 619-08	Single Lane Closure Short- or Intermediate-Term Stationary: 65 MPH Zone
	TA 619-09	Double Lane Closure Short- or Intermediate-Term Stationary: 65 MPH Zone
	TA 619-10	Center Lane Closure Short- or Intermediate-Term Stationary: 65 MPH Zone
	TA 619-11	Lane Shift: 65 MPH Zone
	TA 619-12	Single Lane Closure Short- or Intermediate-Term Stationary: 55 MPH Zone
	TA 619-13	Double Lane Closure Short- or Intermediate-Term Stationary: 55 MPH Zone
	TA 619-14	Center Lane Closure Short- or Intermediate-Term Stationary: 55 MPH Zone
	TA 619-15	Lane Shift: 55 MPH Zone
X	TA 619-16	Work Zone Traffic Control at Interchanges, Service Areas and Parking Areas
X	TA 619-17	Work Zone Traffic Control for Miscellaneous Operations
X	TA 619-18	Mobile Lane Closure
	TA 619-19	Mobile Lane Closure: Narrow Shoulder Area
X	TA 619-20	Short-Duration Lane Closure
	TA 619-21	Short-Duration Double Lane Closure
X	TA 619-22	Work Zone Traffic Control Guide for Pavement Striping Operations
X	TA 619-23	Mobile Lane Closure for Pavement Striping Operations
X	TA 619-24	Mobile Lane Closure for Pavement Striping Operations: Narrow Shoulder Area
X	TA 619-25	Work Zone Traffic Control for Pavement Striping Operations at Interchanges, Service Areas and Parking Areas
	TA 619-26	Temporary Rock Catchment Barrier (Sheets 1-3)
	TA 619-27	Workzone Overhead Gantry Signing
	TA 619-30	New York Division Traffic Management Tables (Sheets 1-28)
	TA 619-31	Albany Division 1,150 Veh/Hr/Lane Traffic Management Tables (Sheets 1-18)
	TA 619-32	Albany Division 1,300 Veh/Hr/Lane Traffic Management Tables (Sheets 1-18)
	TA 619-33	Syracuse Division 1,150 Veh/Hr/Lane Traffic Management Tables (Sheets 1-18)
	TA 619-34	Syracuse Division 1,300 Veh/Hr/Lane Traffic Management Tables (Sheets 1-18)
X	TA 619-35	Buffalo Division 1,150 Veh/Hr/Lane Traffic Management Tables (Sheets 1-37)
	TA 619-36	Buffalo Division 1,300 Veh/Hr/Lane Traffic Management Tables (Sheets 1-37)
X	TA 625-01	ROW and Survey Markers
	TA 645-01	Wrong Way Deterrence Sign
X	TA 646-01	Reference Marker Details (Sheets 1-2)
	TA 670-01	Fiber Optic & Backbone Handhole Relocation Details
	TA 680-01	Inductance Loop Installation
	TA 680-02	Highway Advisory Radio (Sheets 1-9) 08/15/2025
X	TA 685-01	Pavement Marking Details: Asphalt and Concrete Pavement (Sheets 1-2)
	TA 685-02	Pavement Marking Details: Tapered Acceleration and Deceleration Lanes
	TA 685-03	Vacant
X	TA 685-04	Temporary Pavement Marking Details
	TA 690-01	Loop and Treadle Plan (Sheets 1-2)
	TA 690-02	Toll Lane Slab Reinforcement Plan
	TA 690-03	10 ft Treadle Frame (Sheets 1-4)

The officially adopted New York State Thruway Authority Standard Sheets book is available on the Thruway Authority's website at: http://www.thruway.ny.gov/business/contractors/standard-sheets/index.shtml

Highway Work Type

The marked types & treatments apply to the indicated milepost range(s) below.

MILEPOST FROM:	361.35	RAMPS					
TO:	363.52						
PROJECT TYPE	**X**	**X**	**X**	**X**	**X**	**X**	**X**
1R Resurfacing							
2R Resurfacing							
3R Rehabilitation							
Reconstruction		X					
Safety Improvements							
Drainage							
Rock Slope Remediation							
Pavement Striping							
Other: Shoulder Reconstruction	X						
PAVEMENT TREATMENT	**X**	**X**	**X**	**X**	**X**	**X**	**X**
Isolated Pavement Repairs Only							
Thin Overlay without Milling							
Thin Overlay with Milling							
1" Mill & Inlay without Shoulders							
1" Mill & Inlay with Shoulders							
2" Mill & Inlay without Shoulders							
2" Mill & Inlay with Shoulders							
Mill to Concrete with 4" Overlay							
Mill to Concrete with 4.5" Overlay							
Mill to Concrete with 5" Overlay							
Crack and Seat with Overlay							
Rubblize with Overlay							
Other: Pavement Reconstruction	X	X					

Structure Work Type

The marked types apply to the indicated milepost(s) below.

MILEPOST:	362.44	362.40					
PROJECT TYPE	**X**	**X**	**X**	**X**	**X**	**X**	**X**
Bridge Washing							
Scour Protection							
Channel Cleaning							
Railing System							
Protective Screening							
Painting							
Steel Repair							
Wearing Surface Treatment							
Deck Repairs							
Joint Rehabilitation							
Joint Replacement							
Bearing Rehabilitation							
Bearing Replacement							
Hanger Pin Replacement							
Security							
Seismic Retrofit							
Substructure Rehabilitation							
Electrical							
Cathodic Protection System							
Fendor or Pier Protection System							
Deck Replacement							
Superstructure Replacement							
Bridge Replacement	X						
Added Bridge (New Location)							
Abandoned Bridge							
Other: Overhead Sign Structure		X					

New York State Department of Transportation Standard Sheets

The latest revisions of the New York State Department of Transportation Standard Sheets maintained by NYSDOT, which are current as of the Standard Specifications adoption date shown on the Proposal cover, shall be considered to be in effect. All pay items and work contained in the Contract and any additional pay items and work encountered during the course of the Contract shall be subject to the applicable standard sheet(s) unless otherwise specified in the Contract documents.

The officially adopted New York State Department of Transportation Standard Sheets book is available on the NYSDOT website at:
https://www.dot.ny.gov/main/business-center/engineering/specifications/busi-e-standards-usc

REV. 02/25

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: NYSTA STANDARD SHEETS LISTING AND WORK TYPE TABLES

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: SS-1

DESIGNED BY: M. SEIDEL
DRAFTED BY: M. MURPHY
CHECKED BY: M. SEIDEL
CHECKED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS

FILE_NAME = 121410_sht_02_ss_01.dgn
DATE/TIME = 12-14-2023 07:31
USER = dhoerner

WORK ZONE TRAFFIC CONTROL NOTES

THE FOLLOWING NOTES ARE INTENDED TO SUPPLEMENT AND CLARIFY REQUIREMENTS SET FORTH IN SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS, AS WELL AS THE NYSDOT AND NYSTA 619 STANDARD SHEETS.

GENERAL NOTES

1. PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL SHALL BE COMPLETE. THIS INCLUDES BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.), FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.
2. THE TRAFFIC CONTROL PLANS SHOWN ARE TO BE CONSIDERED MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS DETERMINED BY THE ENGINEER, COST TO BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE ITEMS. IF AT ANY TIME THE ENGINEER DETERMINES THAT TRAFFIC IS NOT BEING PROPERLY MAINTAINED WITHIN A WORK ZONE OR WORKER SAFETY IS NOT PROPERLY ADDRESSED, THE CONTRACTOR SHALL IMMEDIATELY CORRECT THE INDICATED DEFICIENCY.
3. WEEDS, SHRUBBERY, CONSTRUCTION MATERIALS, EQUIPMENT, VEHICLES, OR WORKERS, SHALL NOT OBSCURE TRAFFIC CONTROL DEVICES OR OBSTRUCT TRAFFIC. THE CONTRACTOR SHALL BE REQUIRED TO TRIM ANY FOLIAGE OBSTRUCTING THE VISIBILITY OF ANY TRAFFIC CONTROL DEVICE WHETHER PERMANENT OR TEMPORARY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL.
4. THE CONTRACTOR SHALL COORDINATE ANY WORK WITH OTHER CONTRACTORS, UTILITY COMPANIES, MUNICIPALITIES, AND PERMITTEES IN ACCORDANCE WITH STANDARD SPECIFICATION 105-06, TO ENSURE ALL TRAFFIC IS PROPERLY AND SAFELY MAINTAINED.
5. THE THRUWAY (I-90) IS A CONTROLLED ACCESS HIGHWAY. THE CONTRACTOR SHALL NOT SET UP A STORAGE YARD ALONG THE HIGHWAY WITH DIRECT ACCESS. ALL ACCESS SHALL BE VIA RAMPS OR VIA NON-CONTROLLED ACCESS ROADS.
6. THE CONTRACTOR SHALL OBTAIN HIGHWAY WORK PERMITS FROM THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) PRIOR TO INSTALLING SIGNS AND PERFORMING OTHER WORK ZONE OPERATIONS ALONG I-390 AND ASSOCIATED RAMPS.

SURFACE CONDITION

1. TEMPORARY SLOPED TAPERS REQUIRED PER STANDARD SPECIFICATION 619-3.02 SHALL BE CONSTRUCTED FROM BITUMINOUS PATCHING MATERIAL (PLANT MIX OR SUITABLE WINTER MIX). THESE TAPERS SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL THE NEED FOR TAPERING IS ELIMINATED BY SUBSEQUENT WORK. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL.
2. WHEN MAINTAINING TRAFFIC ON PAVED OR MILLED SURFACES, THE CONTRACTOR SHALL MARK ALL HAZARDS PROJECTING UP FROM THE DRIVING SURFACE (I.E, VALVES, MANHOLES, ETC.). THE CONTRACTOR SHALL PROVIDE TEMPORARY SLOPED TAPERS FOR ALL VALVES, MANHOLES, ETC. LOCATED WITHIN THE TRAVEL LANES, THE CONTRACTOR IS RESPONSIBLE FOR PLACEMENT AND REMOVAL OF THESE TAPERS. TEMPORARY TAPERS SHALL BE CONSTRUCTED FROM BITUMINOUS PATCHING MATERIAL (PLANT MIX OR SUITABLE WINTER MIX). FOR VALVES, MANHOLES, ETC. LOCATED OUTSIDE THE ACTUAL TRAVEL LANES (I.E, SHOULDERS, CENTERLINE) THE CONTRACTOR MAY MARK THE FEATURE AS A HAZARD WITH A DRUM, IF TAPERING IS NOT POSSIBLE. ALL VALVES, MANHOLES, ETC. LOCATED WITHIN AN INTERSECTION SHALL BE TAPERED. THESE TAPERS SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL THE NEED FOR TAPERING IS ELIMINATED BY SUBSEQUENT WORK. THE COST OF THIS WORK, INCLUDING REMOVAL OF TAPERS, SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL.
3. DURING MILLING OPERATIONS THE CONTRACTOR WILL BE PERMITTED TO LEAVE MILLED JOINTS EXPOSED TO TRAFFIC DURING NON-WORKING HOURS PROVIDED THAT ALL LONGITUDINAL OR TRANSVERSE VERTICAL FACES EXCEEDING 1 INCH IN HEIGHT ARE SLOPED OR TAPERED, AOBE, WITH A TAPER RATE IN ACCORDANCE WITH TABLE 619-1 IN SECTION 619 OF THE STANDARD SPECIFICATIONS, IN ADDITION, THE APPROPRIATE WARNING SIGNS AND TEMPORARY PAVEMENT MARKINGS, AS PER SECTION 619 OF THE STANDARD SPECIFICATIONS SHALL BE PROVIDED PRIOR TO REOPENING LANES TO TRAFFIC. THE CONTRACTOR SHALL ENSURE PAVEMENT RUNOFF DOES NOT COLLECT AND THAT POSITIVE DRAINAGE IS MAINTAINED.

CONSTRUCTION VEHICLES AND EQUIPMENT

1. THE CONTRACTOR SHALL PLAN AND INCORPORATE ACCESS POINTS INTO THE WORK ZONE SUCH THAT, TO THE EXTENT PRACTICAL, THE CONTRACTOR'S VEHICLES ENTERING AND LEAVING THE WORK ZONE SHALL NOT IMPEDE THE MOVEMENT OF THROUGH TRAFFIC IN THE ADJACENT OPEN LANES.
2. VEHICLES BELONGING TO THE CONTRACTOR AND THEIR PEOPLE SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY USED BY THE PUBLIC WITHIN THE PROJECT LIMITS. VEHICLES BELONGING TO THE CONTRACTOR AND THEIR PEOPLE SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS ANY SIGNS, BARRICADES OR ANY OTHER TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL NOT PARK THEIR EQUIPMENT NOR STORE MATERIAL WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD.

BARRIER/SHADOW VEHICLES

1. A SHADOW VEHICLE IS REQUIRED FOR SETTING UP AND REMOVAL OF TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES ON CONTROLLED ACCESS HIGHWAYS WHERE WORKERS ARE IN A LANE OR SHOULDER EXPOSED TO TRAFFIC.
2. WHEN MULTIPLE WORK OPERATIONS WITHIN THE SAME WORK ZONE ARE SEPARATED BY A LONGITUDINAL DISTANCE GREATER THAN 360 FEET (APPX. 110 METERS), EACH OPERATION SHALL BE CONSIDERED AN INDEPENDENT WORK AREA AND SHALL BE SUBJECT TO ALL BARRIER VEHICLE REQUIREMENTS REGARDLESS OF THE PRESENCE OF BARRIER VEHICLES AT UPSTREAM WORK OPERATIONS.
3. REFER TO NYSTA STANDARD SHEETS FOR ADDITIONAL WZTC REQUIREMENTS FOR SPECIFIC OPERATIONS, INCLUDING LONG TERM, SHORT TERM, SHORT DURATION, AND MOBILE OPERATIONS.

CHANNELIZING DEVICES

1. CHANNELIZATION DEVICES USED IN TAPERS SHALL BE UNIFORM.
2. CHANNELIZATION DEVICES USED IN THE TANGENT SECTION OF A LANE CLOSURE OR SHOULDER CLOSURE SHALL BE UNIFORM.
3. THE CONTRACTOR SHALL USE DRUMS FOR NIGHT TIME LANE CLOSURES AND NIGHT TIME SHOULDER CLOSURES.

FLAGGING

1. FLAGGING ON THE RAMPS OR MAINLINE WILL NOT BE ALLOWED.

PAVEMENT MARKINGS

1. TECHNIQUES FOR REMOVAL OR COVERING OF PAVEMENT MARKINGS ARE SUBJECT TO APPROVAL BY THE ENGINEER.
2. EXISTING PAVEMENT MARKINGS WITHIN THE CONTRACT LIMITS THAT ARE DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE RE-ESTABLISHED AS REQUIRED BY THE ENGINEER AT NO COST TO THE NYSTA, EXCEPT WHERE OTHERWISE NOTED.
3. IF THE FINAL EPOXY PERMANENT PAVEMENT MARKINGS CANNOT BE PLACED PRIOR TO SUBSTANTIAL COMPLETION, THEN TEMPORARY PAVEMENT MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH SECTION 619-3.06 OF THE SPECIFICATIONS AND AOBE. COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01.

PORTABLE VARIABLE MESSAGE SIGNS (PVMS) ITEM 619.111211

1. PORTABLE VARIABLE MESSAGE SIGNS (ITEM 619.111211) SHALL BE PLACED BEYOND THE SHOULDER WHEREVER PRACTICAL.
2. PORTABLE VARIABLE MESSAGE SIGNS SHALL REFLECT CURRENT WORK ZONE CONDITIONS AND SHALL BE UPDATED WHEN CONDITIONS CHANGE. PORTABLE VARIABLE MESSAGE SIGNS SHALL BE TURNED OFF AT TIMES WHEN A MESSAGE IS NOT NEEDED. MESSAGES SHALL NOT REPEAT INFORMATION ALREADY CONVEYED BY STATIC WARNING SIGNS.

WORK OVER LIVE TRAFFIC

1. ANY OPERATIONS THAT REQUIRE LIFTING OF MATERIALS, EQUIPMENT, OR WORKERS OVER LIVE TRAFFIC (VEHICULAR AND/OR PEDESTRIAN) WILL NOT BE PERMITTED. AN APPROPRIATE WORK ZONE TRAFFIC CONTROL PLAN SHALL BE IMPLEMENTED TO RESTRICT TRAFFIC DURING THESE OPERATIONS.

TIME/DATE RESTRICTIONS

1. TIME RESTRICTIONS ON THE THRUWAY (I-90) SHALL BE INDICATED IN THE NYSTA STANDARD SHEET TA-35, TA-36. (LANE CLOSURE CHARTS)
2. REFER TO THE SCHEDULE AND SUSPENSION SPECIAL NOTES IN THE PROPOSAL FOR DATE RESTRICTIONS ON THE THRUWAY (I-90).

NOTIFICATION AND EMERGENCY ACCESS

1. THE CONTRACTOR IS REQUIRED TO CONTACT ALL SCHOOLS AND EMERGENCY RESPONSE AGENCIES THAT MAY BE AFFECTED BY WORK ASSOCIATED WITH THIS PROJECT TO NOTIFY THEM OF ANTICIPATED CHANGES IN TRAVEL CONDITIONS. IN ADDITION, THESE ORGANIZATIONS SHALL BE UPDATED EACH TIME PROJECT ACTIVITIES CHANGE AND NEW TRAVEL CONDITIONS ARE CREATED. NOTIFICATIONS AND UPDATES SHALL BE PROVIDED AT LEAST TWO WEEKS PRIOR TO THE ALTERATION OF TRAVEL CONDITIONS.
2. THE NYSDOT REGIONAL TRAFFIC OPERATIONS (RTOC) SHALL BE NOTIFIED OF ALL LANE AND SHOULDER CLOSURES IN REGION 4 UTILIZING RTOC'S WORK ZONE NOTIFICATION FORM. THE CONTRACTOR SHALL NOTIFY THE EIC AND THE EIC SHALL NOTIFY RTOC AT LEAST THREE (3) DAYS IN ADVANCE OF THE PROPOSED CLOSURE(S). CLOSURES INCLUDED IN THE FORM SHALL CONFORM TO TIME, DATE, AND LOCATION RESTRICTIONS IN THE CONTRACT DOCUMENTS AND/OR EXCEPTIONS THAT HAVE BEEN PRE-APPROVED BY THE REGIONAL TRAFFIC ENGINEER OR DESIGNEE.
3. CLOSURES WILL BE REVIEWED FOR CONCURRENT AND OVERLAPPING CONFLICTS AND ENTERED INTO 511NY.ORG. RTOC MAY DISALLOW OR REDUCE CLOSURES DUE TO OTHER CLOSURES, WORK EVENTS, OR INCIDENTS FOUND IN CONFLICT WITH THE REQUESTED CLOSURE(S). CLOSURES SHALL NOT BE IMPLEMENTED UNTIL THE WORK NOTIFICATION FORM HAS BEEN ACCEPTED AND THE WORK HAS BEEN ENTERED INTO 511NY.ORG.

OVERHEAD SIGN STRUCTURE INSTALLATION

1. THE OVERHEAD SIGN STRUCTURE WITH PROPOSED SIGNS MUST BE INSTALLED PRIOR TO THE IMPLEMENTATION OF WZTC PHASES 2 TO 5. TEMPORARY WIDENING CANNOT OCCUR UNTIL THE EXISTING OVERHEAD SIGN STRUCTURE AND THE EXISTING GROUND MOUNTED GUIDE SIGN (AT STA. A 28+28, 52.0' RT) ARE REMOVED. IF THE CONTRACTOR ELECTS TO INSTALL THE SIGN AFTER PHASE 2 HAS BEGUN BUT NO LATER THAN THE END OF PHASE 5, THE CONTRACTOR SHALL INSTALL TEMPORARY SIGN AT NO ADDITIONAL COST, AS APPROVED BY THE ENGINEER.

SLOWING AND STOPPING TRAFFIC

1. SLOWING AND STOPPING OF TRAFFIC SHALL BE USED FOR REMOVAL AND INSTALLATION OF OVERHEAD SIGN STRUCTURES, OVERHEAD SIGN PANELS, AND OTHER OPERATIONS AS APPROVED BY THE ENGINEER.
2. SLOWING AND STOPPING TRAFFIC ALONG I-90 WILL BE LIMITED TO 15 MINUTES
3. REQUESTS FOR SLOWING/STOPPING TRAFFIC SHALL BE SUBMITTED TO THE ENGINEER AT LEAST TWO (2) WEEKS PRIOR TO A PLANNED SLOWING/STOPPING OPERATION.
4. THE CONTRACTOR SHALL PERFORM SLOWDOWNS/STOPPAGES ACCORDING TO THE PROCEDURES NOTED IN THE NYSTA ADDENDUM TO THE NYSDOT STANDARD SPECIFICATIONS.
5. GENERAL ALLOWABLE HOURS OF STOPPAGE ARE 12 A.M. TO 6 A.M. FOR NORTHBOUND AND SOUTHBOUND DIRECTIONS, SUBJECT TO APPROVAL.
6. HOLIDAY RESTRICTIONS - REFER TO THE SCHEDULE AND SUSPENSION OF WORK WITHIN THE PROPOSAL FOR RESTRICTIONS WHEN SLOWDOWNS/STOPPAGES WILL NOT BE ALLOWED.
7. MINIMUM CLEARANCE TIME BETWEEN SLOWDOWNS/STOPPAGES SHALL BE 15 MINUTES.
8. EMERGENCY SERVICE PROVIDERS, INCLUDING NYS POLICE, LOCAL POLICE/AMBULANCE/FIRE DEPARTMENTS, NYSTA, NITTEC, NYSDOT, AND RELEVANT LOCAL DEPARTMENTS OF PUBLIC WORKS OR TRANSPORTATION SHALL BE NOTIFIED AT LEAST ONE (1) WEEK PRIOR TO THE UTILIZATION OF TRAFFIC SLOWDOWNS/STOPPAGES.
9. ALL COSTS RELATED TO SLOWDOWNS/STOPPAGE OF TRAFFIC SHALL BE INCLUDED UNDER ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL.

CONSTRUCTION PHASE DESCRIPTIONS

PHASE 1 - CONSTRUCT THE BRIDGE AND APPROACHES THAT CAN BE CONSTRUCTED WITHOUT DISRUPTING EXISTING TRAVEL LANES. CONSTRUCT TEMPORARY PAVEMENT.

PHASE 2 - RECONSTRUCT RAMP A+G MEDIAN WITH RAMP G TRAVEL LANE AND SHOULDER SOUTH OF BRIDGE AND CONNECTION TO WORK COMPLETED IN PHASE 1. COMPLETE CONSTRUCTION OF RAMP A+G MEDIAN AND REMAINDER OF RAMP G NORTH OF BRIDGE WITH INSIDE SHOULDER AND TRAVEL LANE OF RAMP H.

PHASE 3 - RECONSTRUCT RAMP A TRAVEL LANE AND SHOULDER SOUTH OF BRIDGE AND CONNECTION TO WORK COMPLETED IN PHASES 1 AND 2. COMPLETE CONSTRUCTION OF RAMP A TRAVEL LANE NORTH OF THE BRIDGE.

PHASE 4 - REMOVE EXISTING BRIDGE, TEMPORARY PAVEMENT, AND EXISTING PAVEMENT SOUTH OF BRIDGE. RECONSTRUCT INSIDE SHOULDER AND TRAVEL LANE OF RAMP F

PHASE 5 - CONSTRUCT OUTSIDE SHOULDERS OF RAMPS F AND H. COMPLETE CONNECTIONS BETWEEN RAMPS A+F AND RAMPS G+H. REMOVE REMAINING TEMPORARY PAVEMENT.

DRAFTED BY: A.JOANETTE
DESIGNED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: WORK ZONE TRAFFIC CONTROL GENERAL NOTES	DRAWING NUMBER: WZN-01

SUMMARY OF WORK ZONE TRAFFIC CONTROL (WZTC)			
PHASE	DESCRIPTION OF PROPOSED WORK	ANTICIPATED WZTC REQUIRED	STANDARD SHEETS/WZTC REQUIRED
0	INSTALL APPROACH WORK ZONE SIGNING INSTALL MAINLINE TRAFFIC CONTROL	SHORT DURATION MOBILE OPERATIONS	TA 619-04, TA 619-05 TA-619-08
1	CONSTRUCT NEW BRIDGE AND HIGHWAY EMBANKMENT REPLACE OVERHEAD SIGN STRUCTURE INSTALL NEW BRIDGE STEEL CONSTRUCT TEMPORARY WIDENING TO BE USED IN PHASE 2-4	INSTALL TRAFFIC CONTROL DEVICES AS PER PLAN SHEETS	WZP-1 to WZP-6, WZP-31. SEE NOTES FOR SLOWING AND STOPPING TRAFFIC SEE NOTES FOR SLOWING AND STOPPING TRAFFIC WZP-1 to WZP-6
2	COMPLETE NEW HIGHWAY EMBANKMENT RECONSTRUCT RAMPS G & H NORTH OF THE MAINLINE	INSTALL TRAFFIC CONTROL DEVICES AS PER PLAN SHEETS	WZP-7 to WZP-12
3	SHIFT RAMP G TO THE NEW BRIDGE RECONSTRUCT THE PAVEMENT BETWEEN RAMP A AND G SOUTH OF THE MAINLINE COMPLETE RAMP A NORTH AND SOUTH OF THE MAINLINE	INSTALL TRAFFIC CONTROL DEVICES AS PER PLAN SHEETS	WZP-13 to WZP-18
4	SHIFT RAMP A TO THE NEW BRIDGE REMOVE OLD RAMP A & G PAVEMENT NORTH AND SOUTH OF THE MAINLINE RECONSTRUCT RAMP F REMOVE EXISTING BRIDGE CONSTRUCT STORM WATER PRACTICE SOUTH OF THE MAINLINE	INSTALL TRAFFIC CONTROL DEVICES AS PER PLAN SHEETS	WZP-19 to WZP-24 SEE NOTES FOR SLOWING AND STOPPING TRAFFIC
5	COMPLETE ALL RECONSTRUCTION NORTH OF MAINLINE INSTALL BOX BEAM MEDIAN BARRIER INSTALL ALL SIGNS, PAVEMENT MARKINGS RECONSTRUCT MAINLINE SHOULDERS REMOVE TEMPORARY PAVEMENT RESTORE SHOULDERS AND GRADING	INSTALL TRAFFIC CONTROL DEVICES AS PER PLAN SHEETS	WZP-25 to WZP-30 TA-619-08 WZP-31
6	REMOVE ALL APPROACH SIGNING AND MAINLINE TRAFFIC CONTROL	SHORT DURATION MOBILE OPERATIONS	TA 619-04, TA 619-05

DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

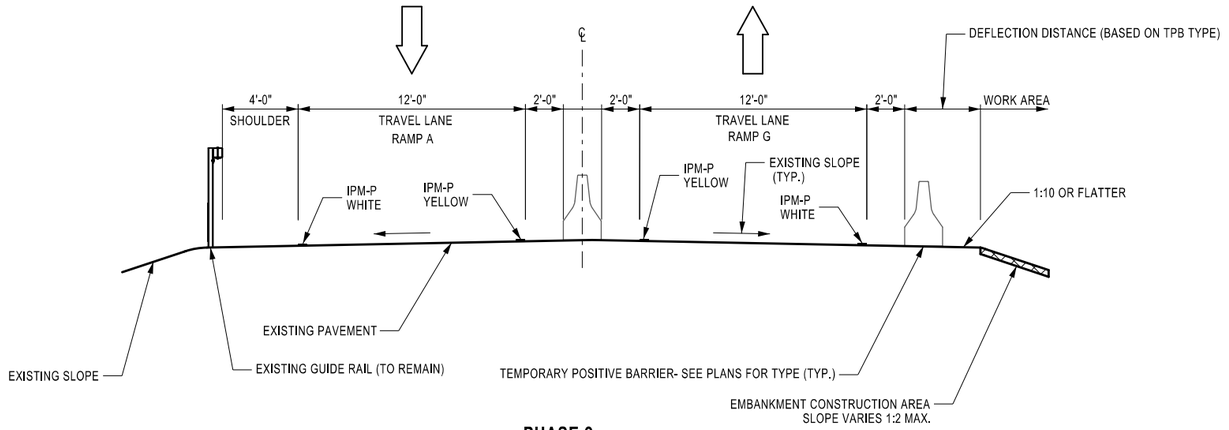
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORK ZONE TRAFFIC CONTROL
GENERAL NOTES

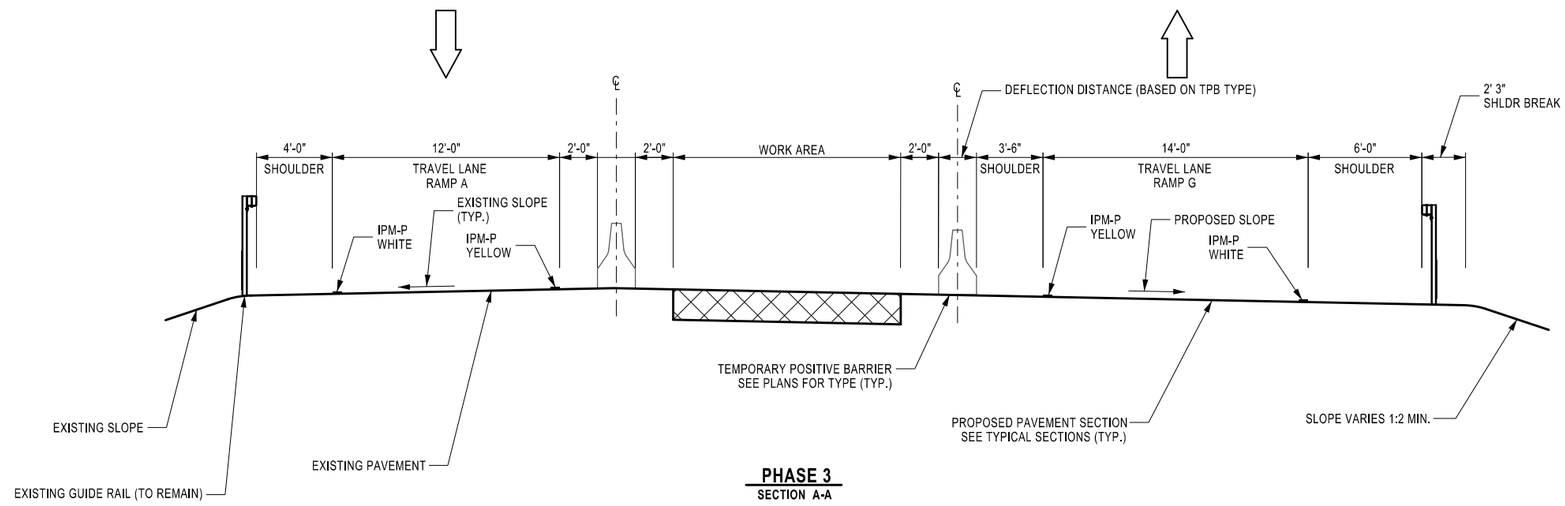
CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
WZN-02



PHASE 2
SECTION A-A



PHASE 3
SECTION A-A

619.10010125	IPM-P	INTERIM PAVEMENT MARKING STRIPES, 6" TRAFFIC PAINT
619.10010325	IPM-R	INTERIM PAVEMENT MARKINGS, STRIPS 6" REMOVAL TAPE

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

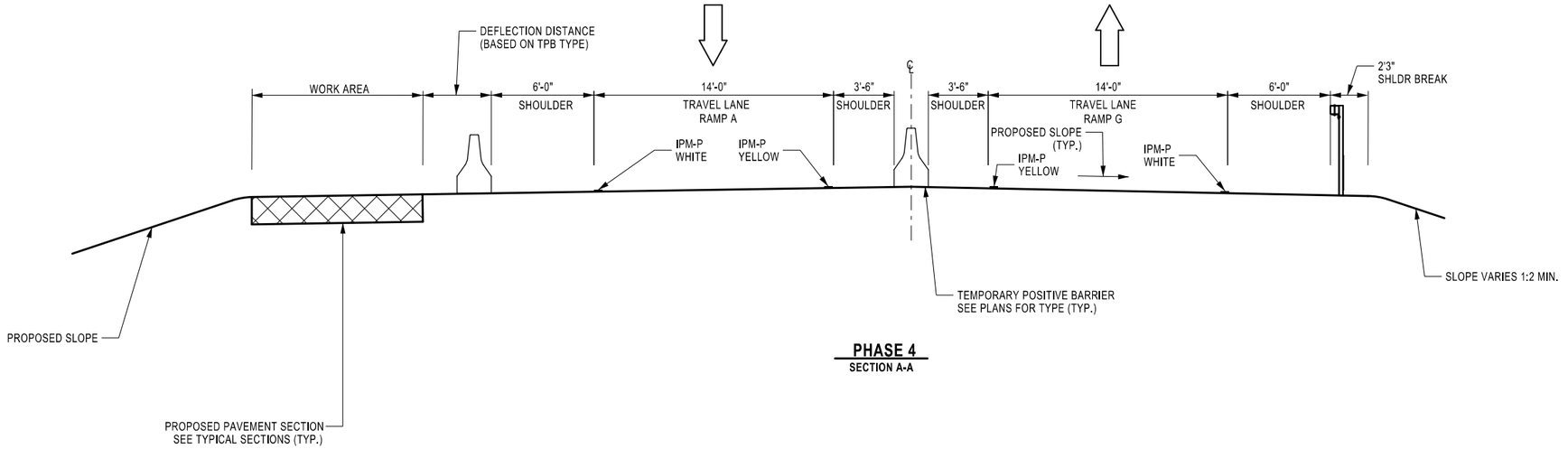
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WZTC SECTIONS
(1 OF 5)

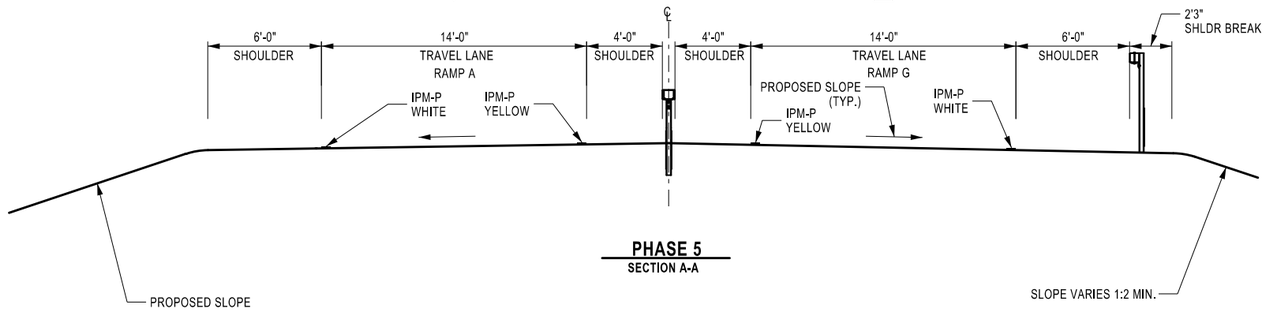
CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
WZS-01



PHASE 4
SECTION A-A



PHASE 5
SECTION A-A

619.10010125	IPM-P	INTERIM PAVEMENT MARKING STRIPES, 6" TRAFFIC PAINT
619.10010325	IPM-R	INTERIM PAVEMENT MARKINGS, STRIPS 6" REMOVAL TAPE

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025
SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

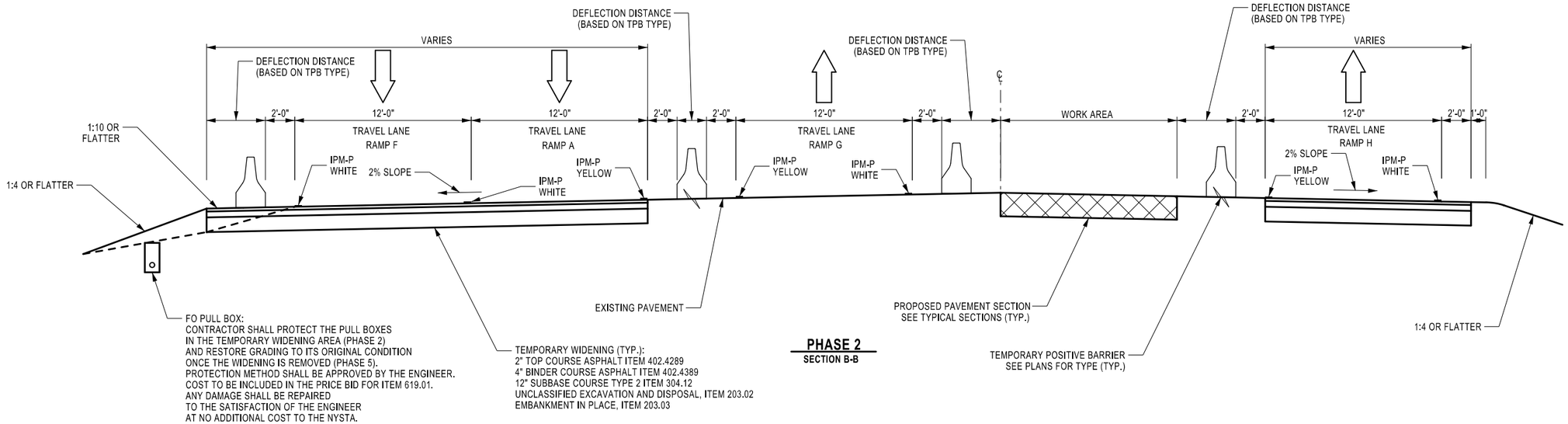
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WZTC SECTIONS
(2 OF 5)

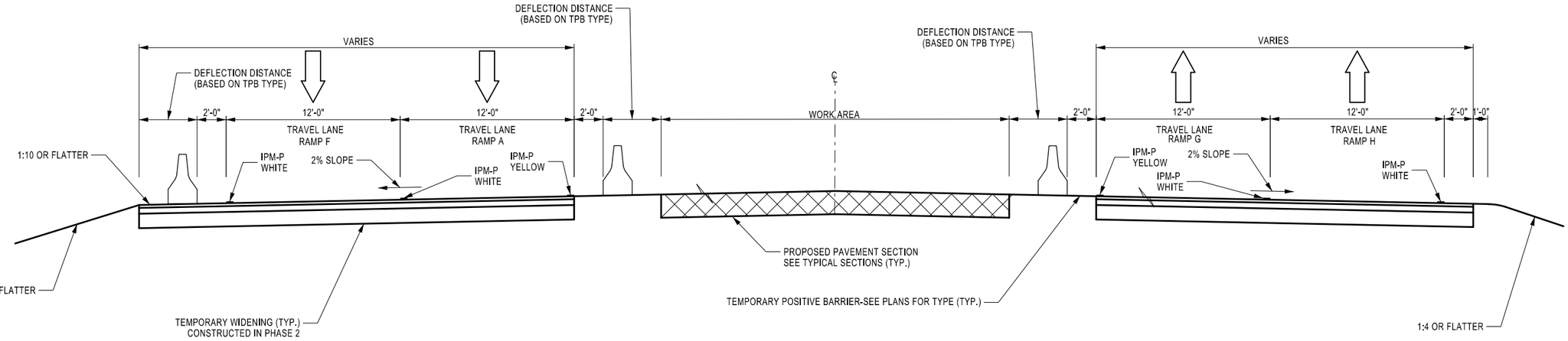
CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
WZS-02



PHASE 2
SECTION B-B



PHASE 3
SECTION B-B

619.10010125	IPM-P	INTERIM PAVEMENT MARKING STRIPES, 6" TRAFFIC PAINT
619.10010325	IPM-R	INTERIM PAVEMENT MARKINGS, STRIPS 6" REMOVAL TAPE

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

ALTERED ON:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

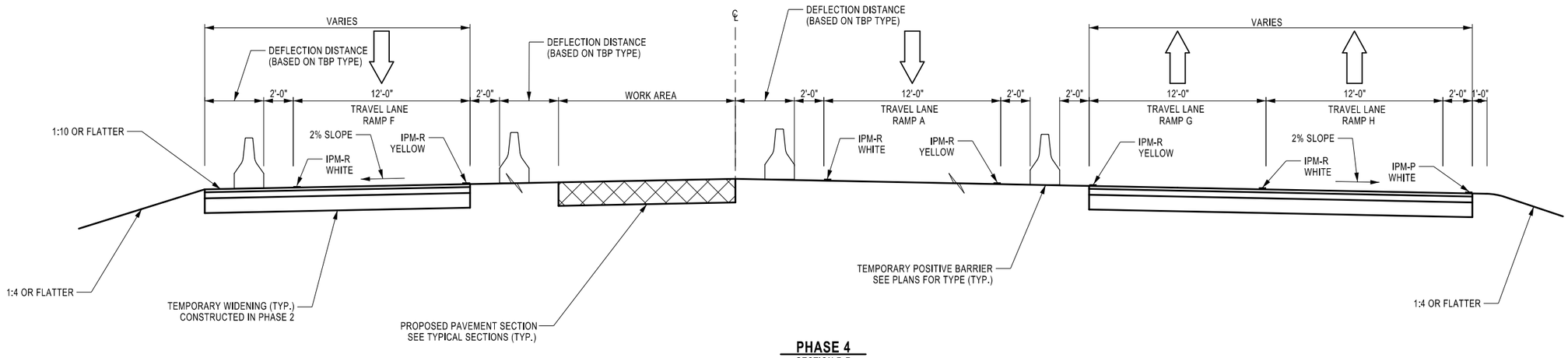
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WZTC SECTIONS
(3 OF 5)

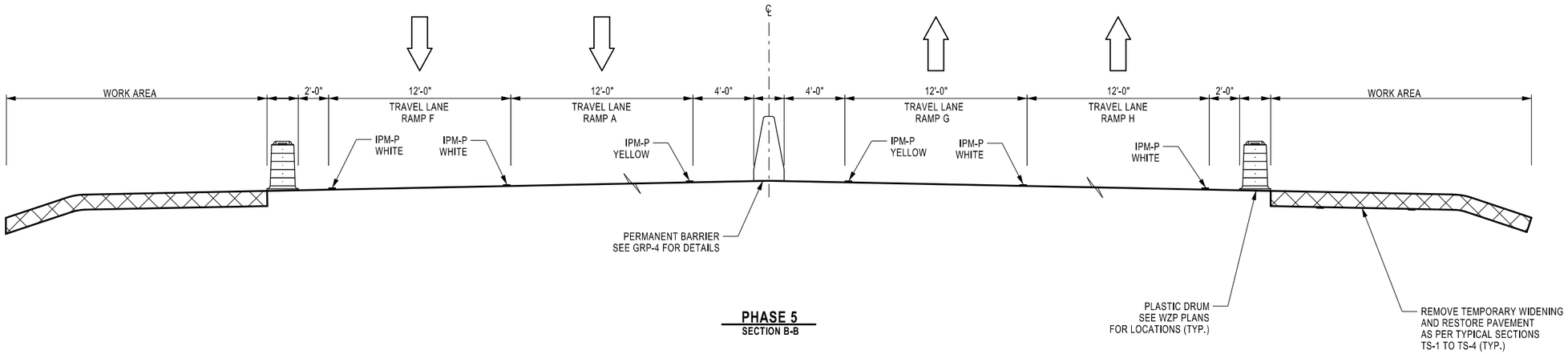
CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
WZS-03



PHASE 4
SECTION B-B



PHASE 5
SECTION B-B

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

619.10010125	IPM-P	INTERIM PAVEMENT MARKING STRIPES, 6" TRAFFIC PAINT
619.10010325	IPM-R	INTERIM PAVEMENT MARKINGS, STRIPS 6" REMOVAL TAPE

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

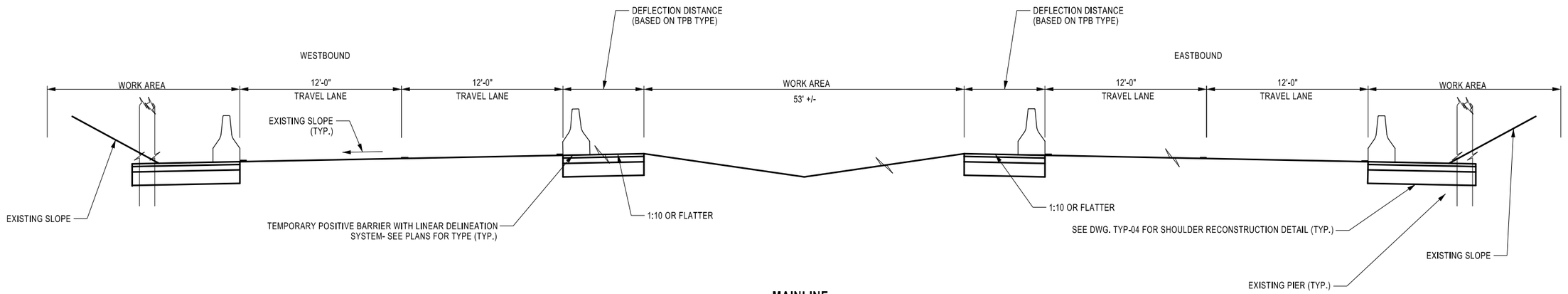
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WZTC SECTIONS
(4 OF 5)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZS-04



MAINLINE
SECTION C-C

NOTE: ALL EXISTING STRIPING TO REMAIN

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

619.10010125	IPM-P	INTERIM PAVEMENT MARKING STRIPES, 6" TRAFFIC PAINT
619.10010325	IPM-R	INTERIM PAVEMENT MARKINGS, STRIPS 6" REMOVAL TAPE

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

REVISIONS

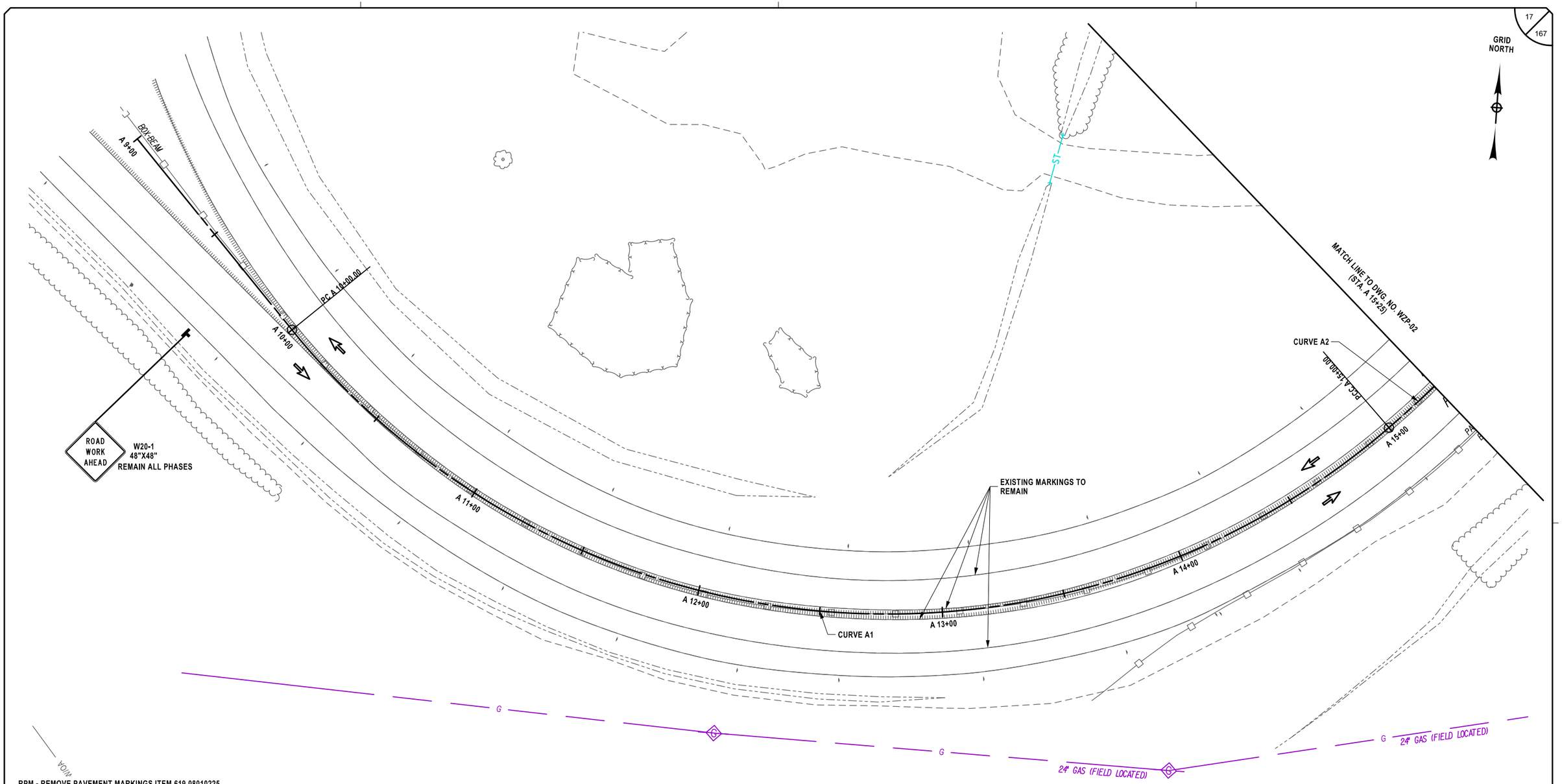
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Poeli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	WZTC SECTIONS (5 OF 5)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	WZS-05

GRID NORTH



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A1	
P.C. = A 10+00.00	
P.T. = A 15+00.00	
R = 312.00 LF	
L = 500.00 LF	
Δ = 90°49'12.0" L	

CURVE A2	
P.C. = A 15+00.00	
P.T. = A 19+17.64	
R = 500.00 LF	
L = 417.64 LF	
Δ = 47°51'28.8" L	

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 1 (1 OF 6)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	WZP-01

DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGNED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

GRID NORTH

EXISTING MARKING TO REMAIN

GUIDE RAIL TO REMAIN

MATCH LINE TO DWG. NO. WZP-01 (STA. A 15+25)

MATCH LINE TO DWG. NO. WZP-03 (STA. A 19+75)

A 16+00

A 17+00

A 18+00

A 19+00

CURVE A2

BEGIN BRIDGE, APPROACH, AND EB ON RAMP CONSTRUCTION STA. A 19+00.00

BEGIN BRIDGE, APPROACH, AND EB OFF RAMP CONSTRUCTION STA. A 17+50.00

CONSTRUCT EMBANKMENT

RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

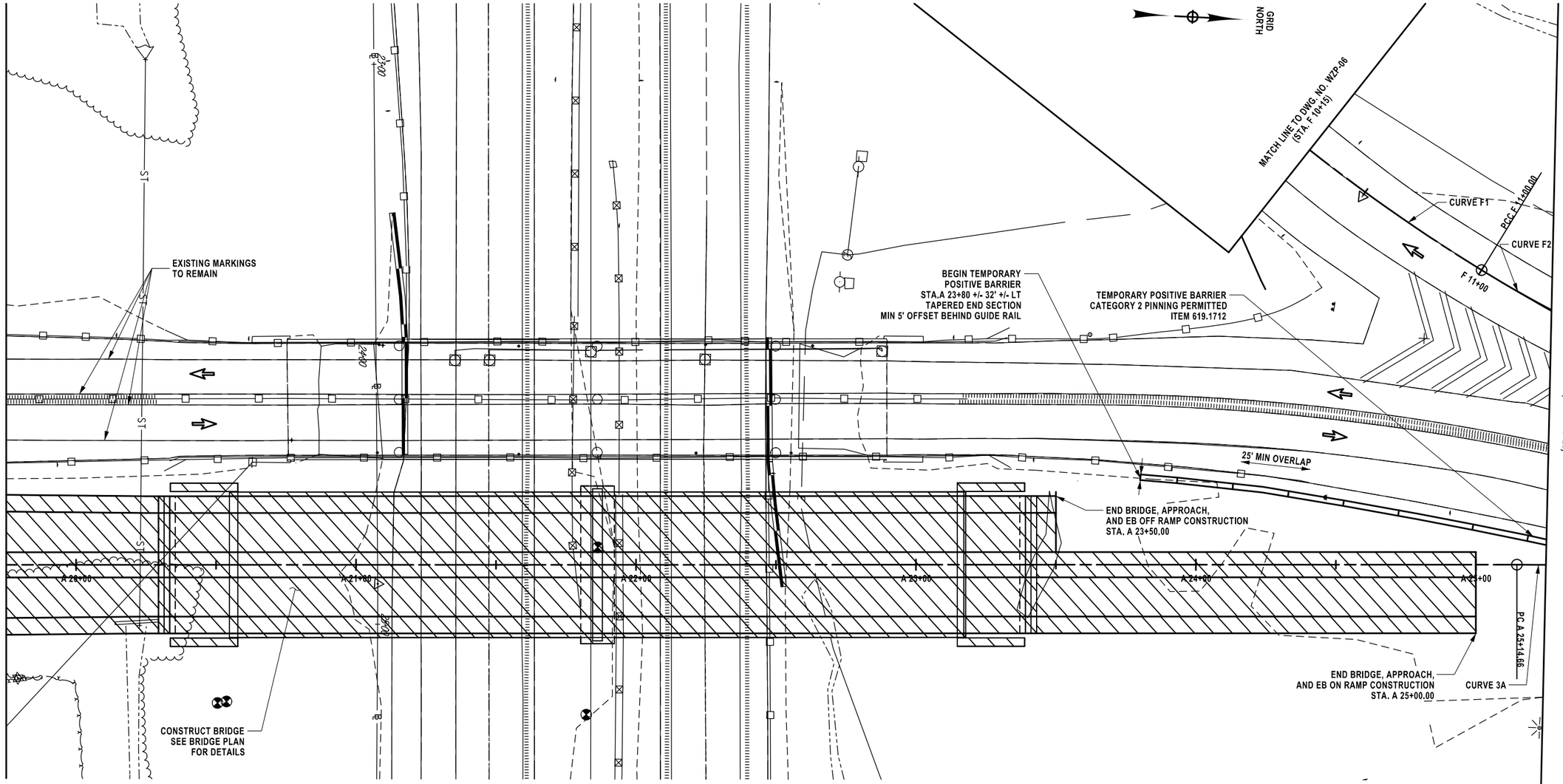
NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44□
TITLE OF DRAWING	WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 1 (2 OF 6)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	WZP-02

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	CURVE F1	CURVE F2
P.C. = A 19+17.64	P.C. = F 10+00.00	P.C. = 11+00.00
P.T. = A 25+14.66	P.T. = F 11+00.00	P.T. = 11+40.73
R = 800.00 LF	R = 631.08 LF	R = 444.00 LF
L = 294.81 LF	L = 100.00 LF	L = 81.25 LF
Δ = 21°6'50.4" R	Δ = 9°4'44.4" L	Δ = 10°28'58.8" L

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 1 (3 OF 6)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	WZP-03

GRID NORTH

CURVE F2

PT F 11+81.23

F 12+00

F 13+00

F 14+00

F 15+00

POE F 15+54.06

MATCH LINE TO DWG. NO. WZP-03
(STA. A 25+25)

A 26+00

A 27+00

A 28+00

A 29+00

MATCH LINE TO DWG. NO. WZP-05
(STA. A 29+75)

CURVE A3

TAPERED END SECTION (TYP.)

END TEMPORARY
POSITIVE BARRIER
STA.A 26+56 +/- 20' +/- RT

MIN 2' OFFSET
FROM EDGE OF SHOULDER

PT A 28+08.41

H 13+00

H 14+00

END TEMPORARY
POSITIVE BARRIER
STA.H 11+73 +/- 32' +/- LT

TEMPORARY POSITIVE BARRIER
CATEGORY 2 PINNING PERMITTED
ITEM 619.1712

H 12+00

PT H 13+46.41

POE H 14+19.39
= A 29+25

CURVE H2

POC H 11+00.00

H 11+00

CURVE H1

MATCH LINE TO DWG. NO. WZP-06
(STA. H 10+75)

RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3
P.C. = A 19+17.64
P.T. = A 25+14.66
R = 800.00 LF
L = 294.81 LF
Δ = 21°6'50.4" R

CURVE F2
P.C. = 11+00.00
P.T. = 11+40.73
R = 444.00 LF
L = 81.25 LF
Δ = 10°28'58.8" L

CURVE H1
P.C. = 10+00.00
P.T. = 11+00.00
R = 429.01 LF
L = 100.00 LF
Δ = 13°21'18.0" R

CURVE H2
P.C. = 11+00.00
P.T. = 13+46.41
R = 300.00 LF
L = 246.41 LF
Δ = 47°3'39.6" R

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 1
(4 OF 6)

CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
WZP-04

GRID NORTH

ROAD WORK AHEAD
W20-1
36"X36"

SEE STANDARD SHEET TA 619-05
FOR APPROACH SIGNING AND
CHANNELIZING DEVICES

MATCH LINE TO DWG. NO. WZP-04
(STA. A 29+75)

A 30+00
A 31+00
A 32+00
A 33+00
A 34+00
A 35+00

END
ROAD WORK
G20-2
48"X24"
REMAIN ALL PHASES

RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 1
(5 OF 6)

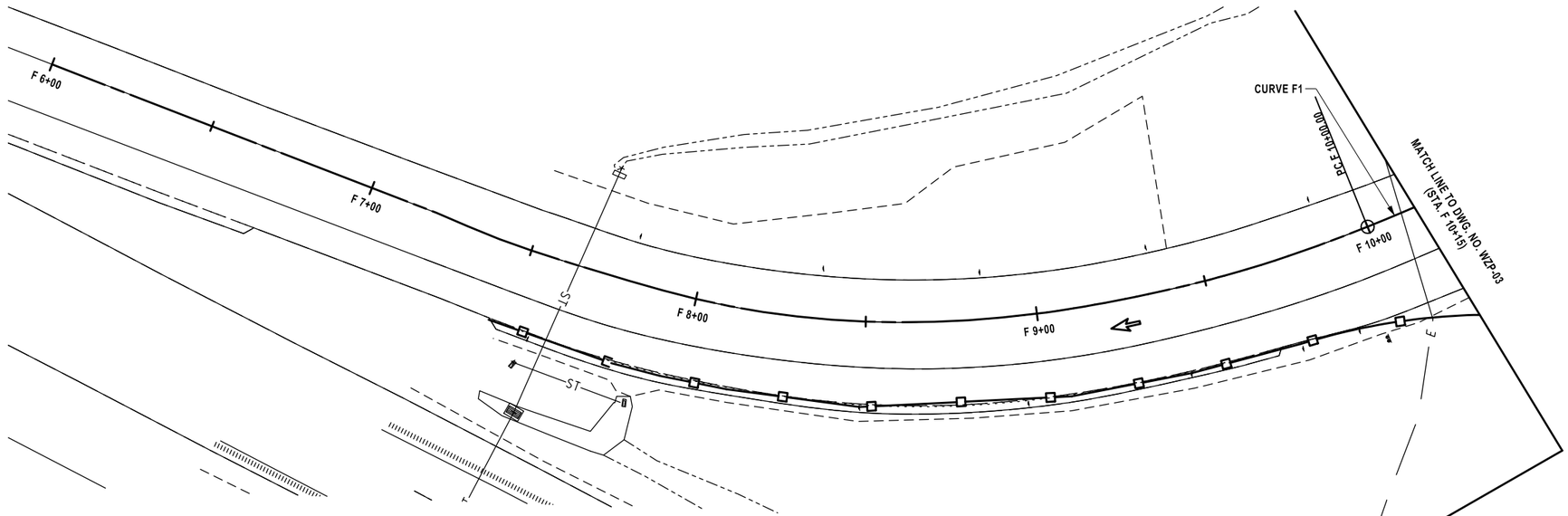
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-05

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: E.BAXTER
CHECKED BY: H.RESSEL

DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE F1
P.C. = F 10+00.00
P.T. = F 11+00.00
R = 631.08 LF
L = 100.00 LF
Δ = 9°4'44.4" L

CURVE H1
P.C. = 10+00.00
P.T. = 11+00.00
R = 429.01 LF
L = 100.00 LF
Δ = 13°21'18.0" R

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 1
(6 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-06

GRID NORTH

12" MIN OFFSET
TEMPORARY POSITIVE BARRIER
TO EDGE OF TRAVEL LANE
TAPERED END SECTION

OM-3L
(12"X36")

BEGIN TEMPORARY
POSITIVE BARRIER
STA.A 9+00, 0' RT

A 9+00

BEGIN SHIFTING TAPER
AND TEMPORARY PAVEMENT
FOR EB RAMP BYPASS
STA. A 10+00.00

PC A 10+00.00

APPX. 4'-5"
EX. MEDIAN

APPX. 14'-8"
EX. TRAVEL LANE

APPX. 11'-1"
EX. SHOULDER

A 10+00

APPX. 10'-9"
EX. SHOULDER

APPX. 13'-10"
EX. TRAVEL LANE

RPM

6" YEL

IPM-P

MIN 2' OFFSET
FROM EDGE OF TRAVEL LANE

TEMPORARY POSITIVE BARRIER
CATEGORY 2 PINNING PERMITTED
ITEM 619.1712

MATCH LINE TO DWG. NO. WZP-08
(STA. A 15+25)

PCC A 15+00.00

A 15+00

CURVE A2

W1-2L
48"X48"

20 MPH

W13-1P
30"X30"

END SHIFTING TAPER FOR
EB RAMP BYPASS
STA. A 13+00.00

4'-0"
SHOULDER

12'-0"
TRAVEL LANE

6'-0"
MEDIAN

12'-0"
TRAVEL LANE

MIN. 11'-0"
BUFFER AREA

A 11+00

A 12+00

A 13+00

6" WEL

IPM-R

12' MIN OFFSET
TEMPORARY POSITIVE BARRIER
TO EDGE OF TRAVEL LANE
TAPERED END SECTION

11:1 OFFSET

CURVE A1

BEGIN TEMPORARY
POSITIVE BARRIER
STA.A11+90 +/- 6' +/- RT

BEGIN EB OFF RAMP CONSTRUCTION
STA. A 13+00.00 = =

TEMPORARY POSITIVE BARRIER
CATEGORY 2 PINNING PERMITTED
ITEM 619.1712

OM-3L
(12"X36")

MIN 2' OFFSET
FROM EDGE OF TRAVEL LANE

G

RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A1	
P.C. = A 10+00.00	
P.T. = A 15+00.00	
R = 312.00 LF	
L = 500.00 LF	
Δ = 90°49'12.0" L	

CURVE A2	
P.C. = A 15+00.00	
P.T. = A 19+17.64	
R = 500.00 LF	
L = 417.64 LF	
Δ = 47°51'28.8" L	

* INSTALLED IN PREVIOUS PHASE

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 2
(1 OF 6)

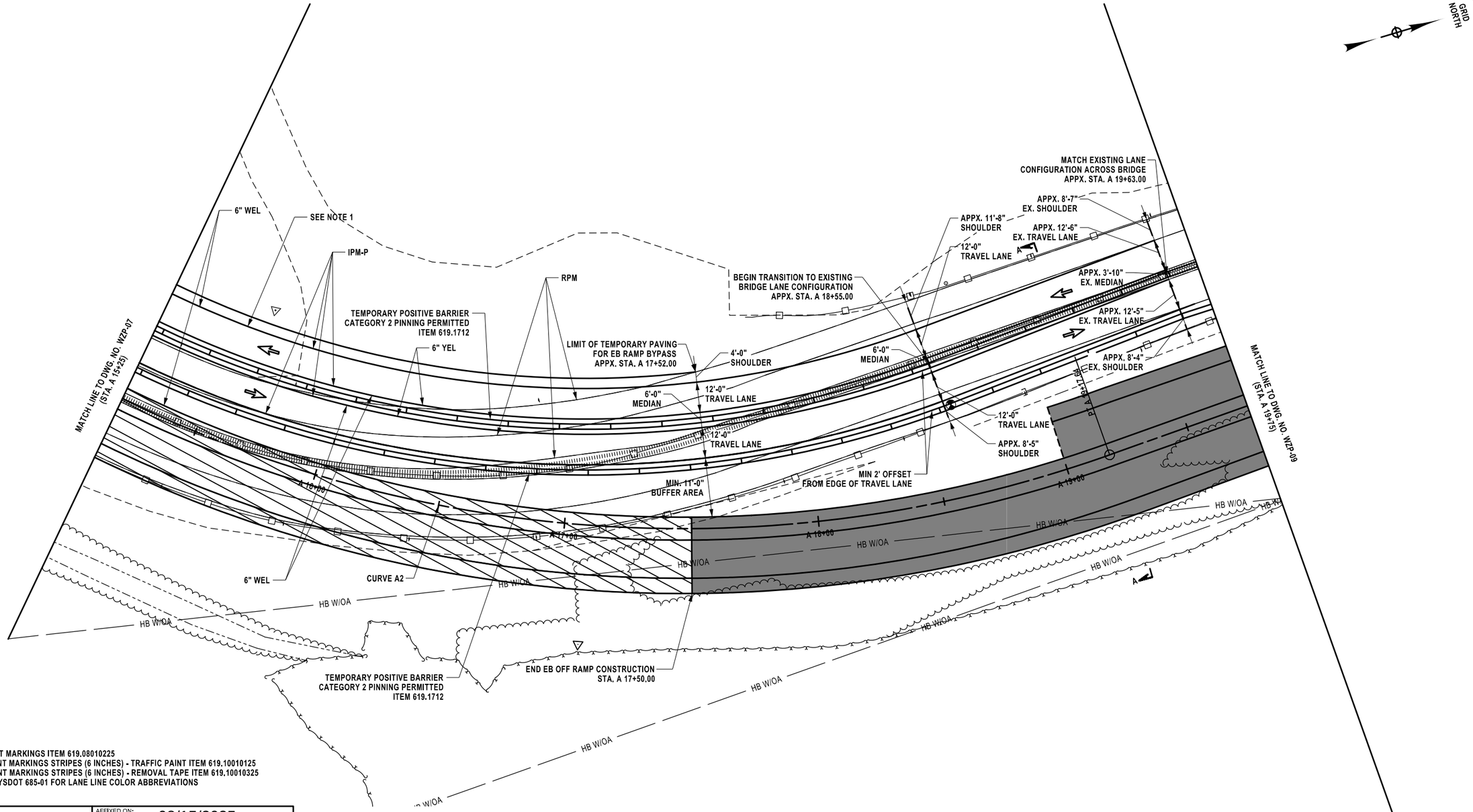
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-07

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

GRID NORTH



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

* INSTALLED IN PREVIOUS PHASE

NOTE:

SEE SECTION B-B
DWG. WZS-03, WZS-04
FOR TEMPORARY PAVEMENT DETAILS

20 0 20 40 60 80'
1" = 40'

ALTERED ON:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 2
(2 OF 6)

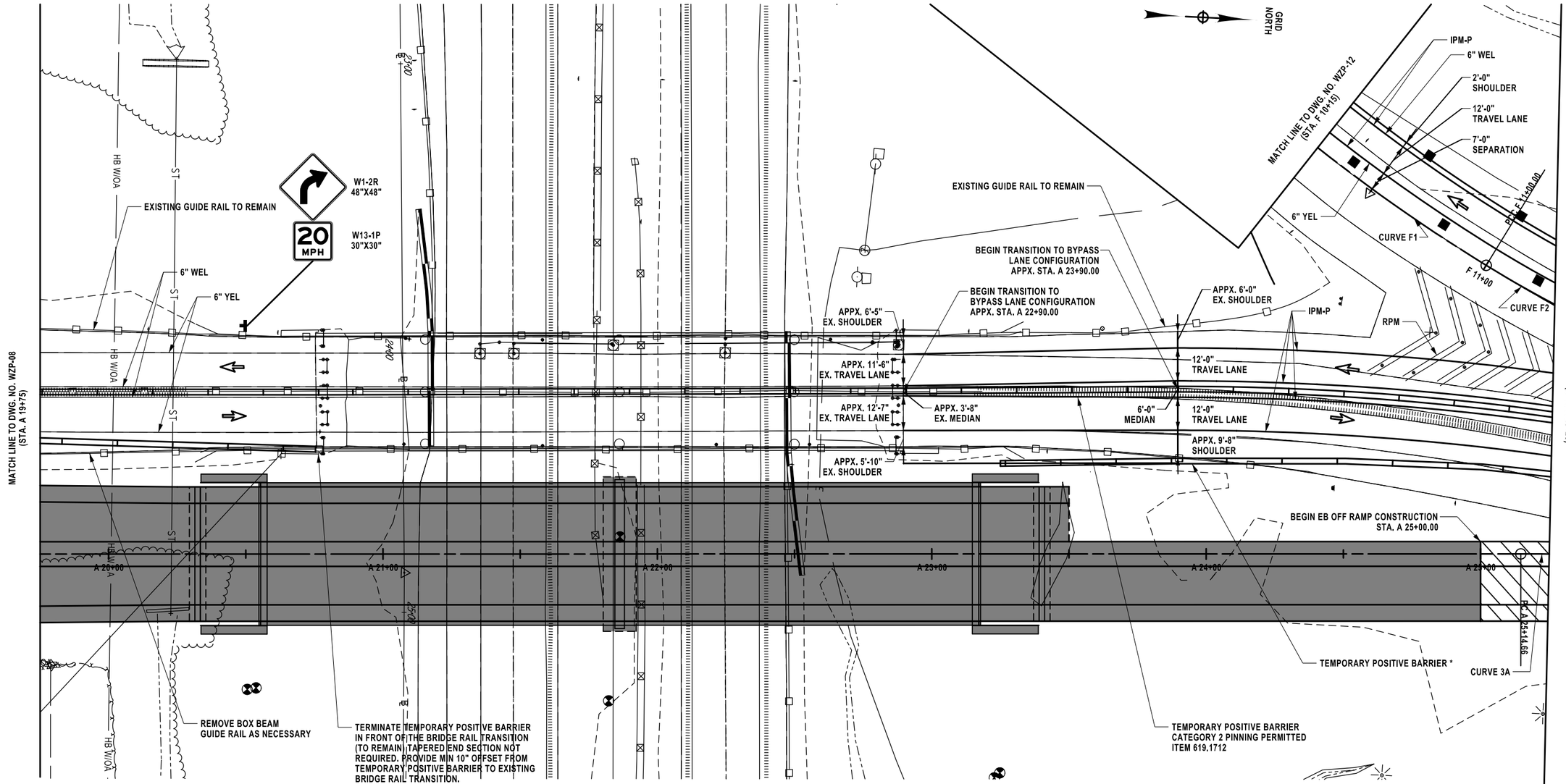
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-08

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	
P.C. = A 19+17.64	
P.T. = A 25+14.66	
R = 800.00 LF	
L = 294.81 LF	
Δ = 21°6'50.4" R	

CURVE F1	
P.C. = F 10+00.00	
P.T. = F 11+00.00	
R = 631.08 LF	
L = 100.00 LF	
Δ = 9°4'44.4" L	

CURVE F2	
P.C. = 11+00.00	
P.T. = 11+40.73	
R = 444.00 LF	
L = 81.25 LF	
Δ = 10°28'58.8" L	

* INSTALLED IN PREVIOUS PHASE

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

New York State Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

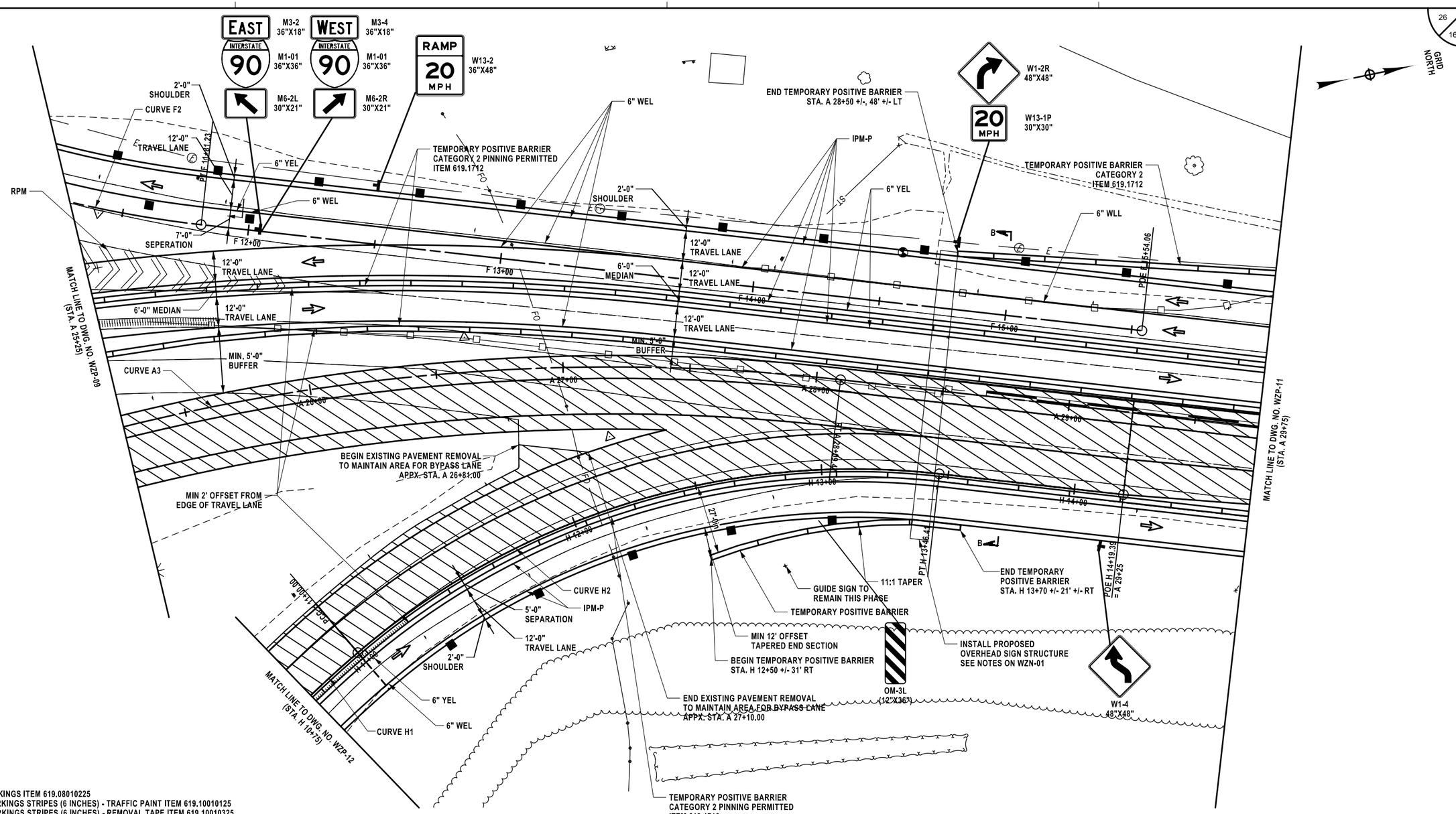
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 2
(3 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-09



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	CURVE F2	CURVE H1	CURVE H2
P.C. = A 19+17.64	P.C. = 11+00.00	P.C. = 10+00.00	P.C. = 11+00.00
P.T. = A 25+14.66	P.T. = 11+40.73	P.T. = 11+00.00	P.T. = 13+46.41
R = 800.00 LF	R = 444.00 LF	R = 429.01 LF	R = 300.00 LF
L = 294.81 LF	L = 81.25 LF	L = 100.00 LF	L = 246.41 LF
Δ = 21°6'50.4" R	Δ = 10°28'58.8" L	Δ = 13°21'18.0" R	Δ = 47°3'39.6" R

* INSTALLED IN PREVIOUS PHASE

20 0 20 40 60 80'
1" = 40'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

New York State Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 2 (4 OF 6)
CONTRACT NUMBER: TAB 25-17B
DATE: 8/15/2025
DRAWING NUMBER: WZP-10

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

GRID NORTH

LIMIT OF TEMPORARY PAVING FOR WB ONRAMP BYPASS APPX. STA. A 30+44.00

BEGIN TEMPORARY POSITIVE BARRIER STA 30+25 +/-, 63' +/- LT CATAGORY 2 PINNING PERMITTED ITEM 619.1712

SEE NOTE 2

TEMPORARLY COVER "EXIT ONLY" ONLY DURING STAGE 2-4

Tandem Lot
Exit Only

12" MIN OFFSET TAPERED END SECTION

11:1 TAPER

RPM

6" WEL

COVER EXISTING PAVEMENT MARKING WORDS IN AUXILIARY LANE ITEM 619.0804

6" YEL

IPM-R

2'-0" SHOULDER
12'-0" TRAVEL LANE
12'-0" TRAVEL LANE
8'-0" MEDIAN
12'-0" TRAVEL LANE
MIN. 5'-0" SEPARATION
12'-0" TRAVEL LANE
2'-0" SHOULDER

MATCH LINE TO DWG. NO. WZP-10 (STA. A 29+75)

A 30+00
A 31+00
A 32+00
A 33+00
A 34+00
A 35+00

LIMIT OF WORK BEGIN SHIFTING TAPERS STA. A. 30+25.00

END TEMPORARY POSITIVE BARRIER TAPERED END SECTION NOT REQUIRED STA. A 30+25+/-

SEE NOTE 3

TEMPORARY POSITIVE BARRIER CATEGORY 2 PINNING PERMITTED ITEM 619.1712

LIMIT OF TEMPORARY PAVING FOR WB OFFRAMP BYPASS 2'-0" SHOULDER APPX. STA. A 32+45.00

IPM-P

6" YEL

RPM

6" YEL

IPM-R

REMOVE EXISTING CONCRETE MEDIAN BARRIER ITEM 606.75

APPX. 5'-7" EX. SHOULDER
APPX. 12'-1" EX. SLIP LANE
APPX. 12'-4" EX. TRAVEL LANE
APPX. 11'-11" EX. TRAVEL LANE
APPX. 10'-1" EX. MEDIAN
APPX. 11'-9" EX. TRAVEL LANE
APPX. 12'-6" EX. TRAVEL LANE
APPX. 6'-0" EX. SHOULDER

END WB OFFRAMP SHIFTING TAPER AND MATCH TO EXISTING LANE CONFIGURATION STA. A 33+05.00

END EB RAMPS AND WB ONRAMP SHIFTING TAPER AND MATCH TO EXISTING LANE CONFIGURATION STA. A 30+85.00

REMOVE EXISTING CONCRETE MEDIAN BARRIER TO STA. 34+00 ITEM 606.75

SEE DETAIL A

MATCH EXISTING PAVEMENT MARKINGS

W3-2 (36",36",36")

SEE NOTE 2

TUBULAR MARKERS

YIELD R1-2 48"X48"X48"

W3-2 48"X48"

YIELD LINE MARKINGS 619.100203 INTERIM PAVEMENT MARKINGS SYMBOLS REMOVABLE

SEE STANDARD SHEET TA 619-05 FOR APPROACH SIGNING AND CHANNELIZING DEVICES

SEE NOTE 1

100'

NORTH 390 LEFT LANE
M3-1 36"X18"
M1-1T 36"X36"
M5-6 24"X18"

SOUTH 390 RIGHT LANE
M3-3 36"X18"
M1-1T 36"X36"
M5-4 24"X18"

60'

TEMPORARY POSITIVE BARRIER — EXISTING BARRIER

DETAIL A
N.T.S

RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

LEGEND:

= TRAFFIC FLOW
= WORK AREA
= PAVEMENT REMOVED UNDER PREVIOUS PHASES
= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

* INSTALLED IN PREVIOUS PHASE

NOTES:

1. COVER EXISTING PAVEMENT LETTERS "TANDEM", "LOT", "ONLY" LOCATED IN RIGHT LANE UNDER ITEM 619.0804 COVER EXISTING PAVEMENT MARKING LETTERS OR SYMBOLS (REMOVABLE TAPE) EACH
2. ACCESS TO/FROM MAINTENANCE FACILITY AND TANDEM LOT SHALL REMAIN OPEN AT ALL TIMES
3. TEMPORARILY REMOVE AND STORE THE "TOLLS BY MAIL" SIGN. WORK SHALL BE PAID UNDER ITEM 647.99000025 REMOVING, STORING AND REINSTALLING SIGNS. NO ELECTRICAL CONNECTIONS SHALL BE REQUIRED. SEE ALSO DWG. WZP-29 FOR RE-INSTALLATION DETAILS. CONTRACTOR SHALL PROTECT EAST SIGN SUPPORTS TO REMAIN.

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

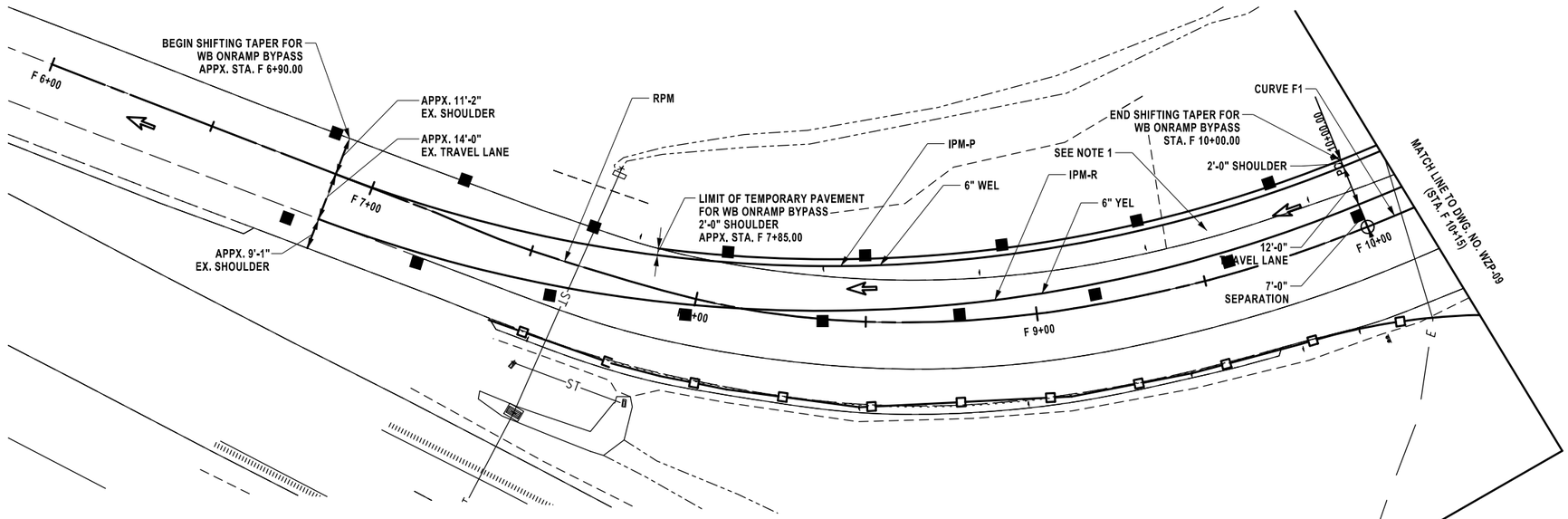
DATE	DESCRIPTION	BY	SYM.

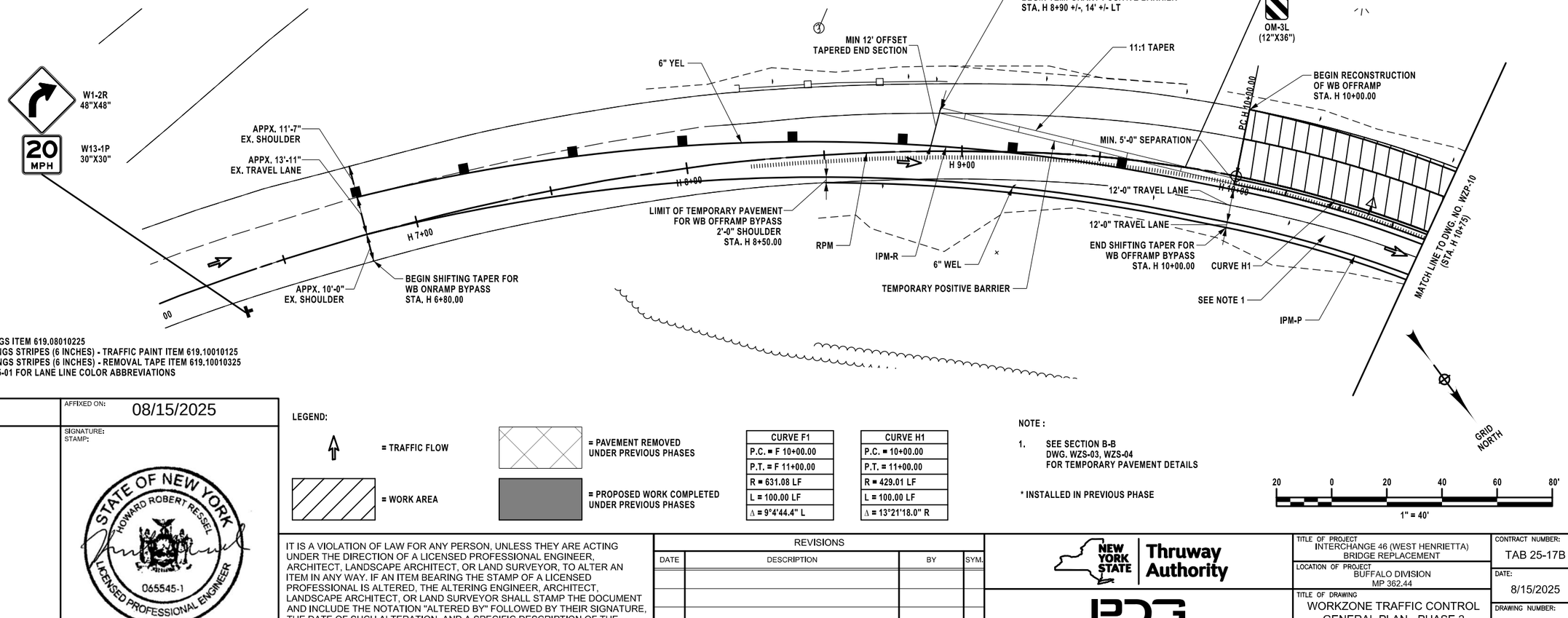
NEW YORK STATE Thruway Authority

PDG Poppli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 2 (5 OF 6)	DRAWING NUMBER: WZP-11

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL





RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE F1	
P.C. = F 10+00.00	
P.T. = F 11+00.00	
R = 631.08 LF	
L = 100.00 LF	
Δ = 9°4'44.4" L	

CURVE H1	
P.C. = 10+00.00	
P.T. = 11+00.00	
R = 429.01 LF	
L = 100.00 LF	
Δ = 13°21'18.0" R	

NOTE :

1. SEE SECTION B-B
DWG. WZS-03, WZS-04
FOR TEMPORARY PAVEMENT DETAILS

* INSTALLED IN PREVIOUS PHASE

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

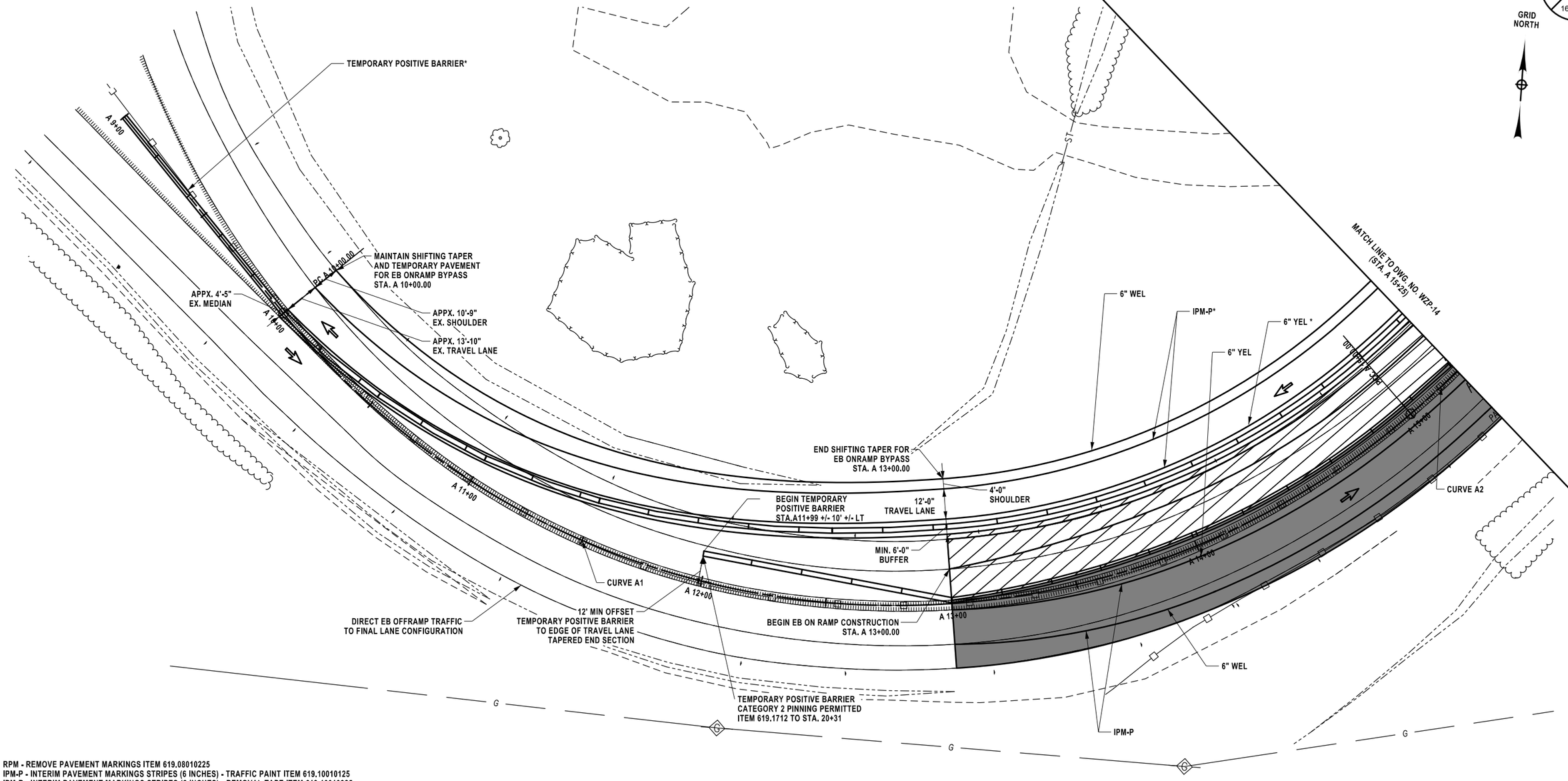
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 2 (6 OF 6)	DRAWING NUMBER: WZP-12

GRID NORTH



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A1
P.C. = A 10+00.00
P.T. = A 15+00.00
R = 312.00 LF
L = 500.00 LF
Δ = 90°49'12.0" L

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

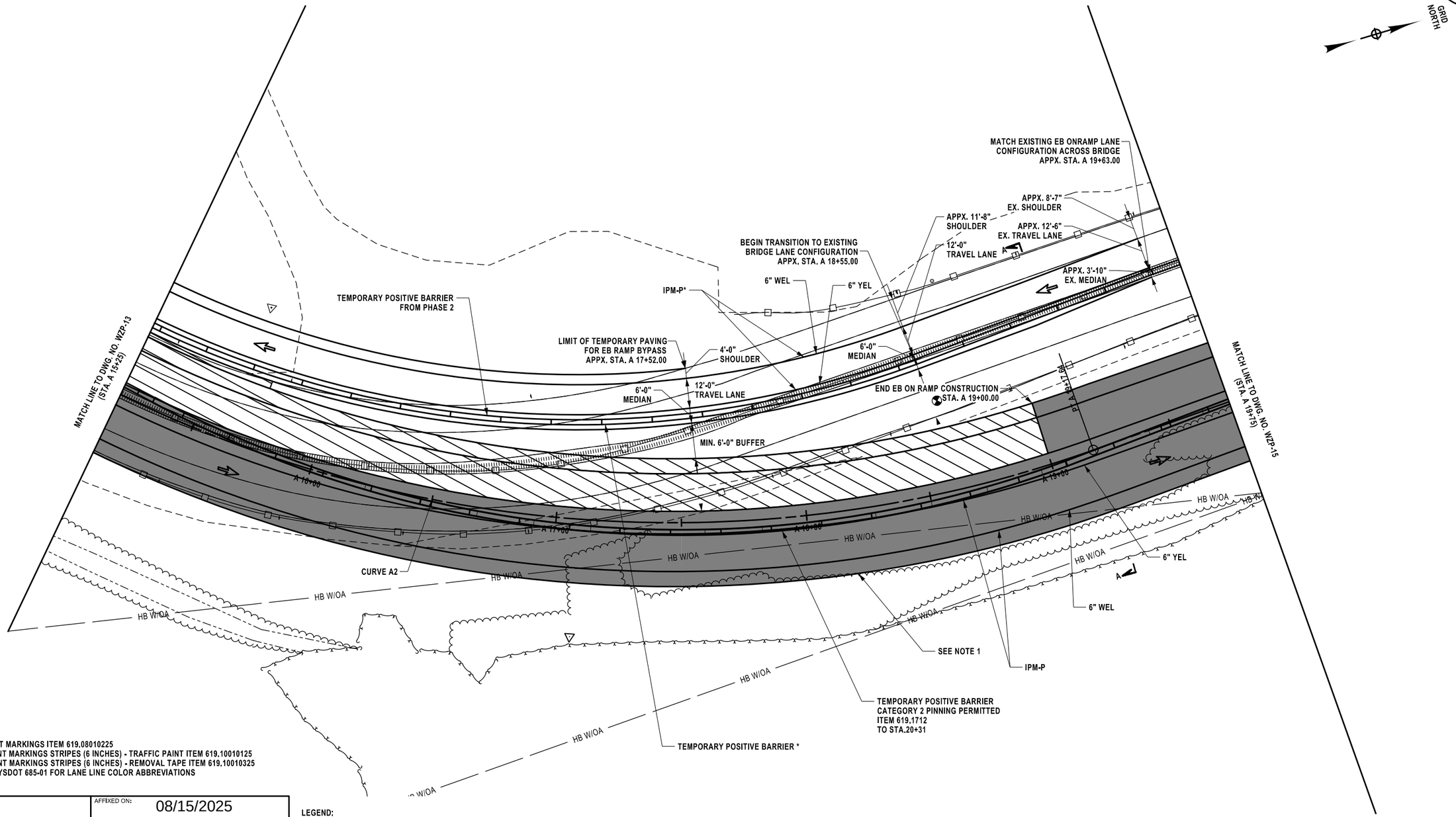
NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 3 (1 OF 6)	DRAWING NUMBER: WZP-13

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

GRID NORTH



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

* INSTALLED IN PREVIOUS PHASES

NOTE:

1. ALL PERMANENT APPROACH GUIDE RAIL AND BRIDGE RAIL TRANSITIONS SHALL BE INSTALLED PRIOR TO MAINTAINING TRAFFIC. SEE BRIDGE PLANS AND GRP 01 TO GRP 06 FOR DETAILS

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 3
(2 OF 6)

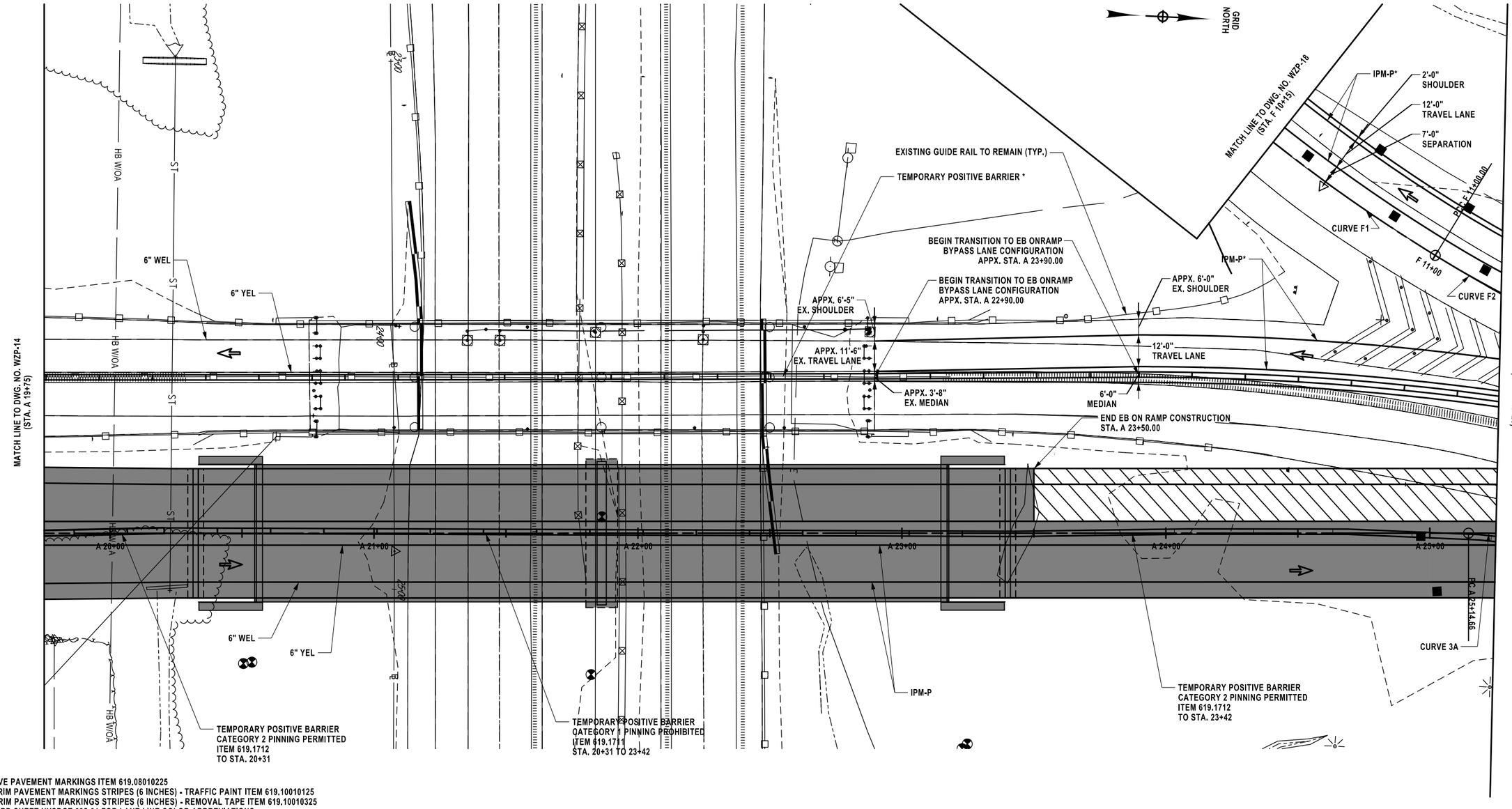
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-14

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	
P.C. = A 19+17.64	
P.T. = A 25+14.66	
R = 800.00 LF	
L = 294.81 LF	
Δ = 21°6'50.4" R	

CURVE F1	
P.C. = F 10+00.00	
P.T. = F 11+00.00	
R = 631.08 LF	
L = 100.00 LF	
Δ = 9°4'44.4" L	

CURVE F2	
P.C. = 11+00.00	
P.T. = 11+40.73	
R = 444.00 LF	
L = 81.25 LF	
Δ = 10°28'58.8" L	

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

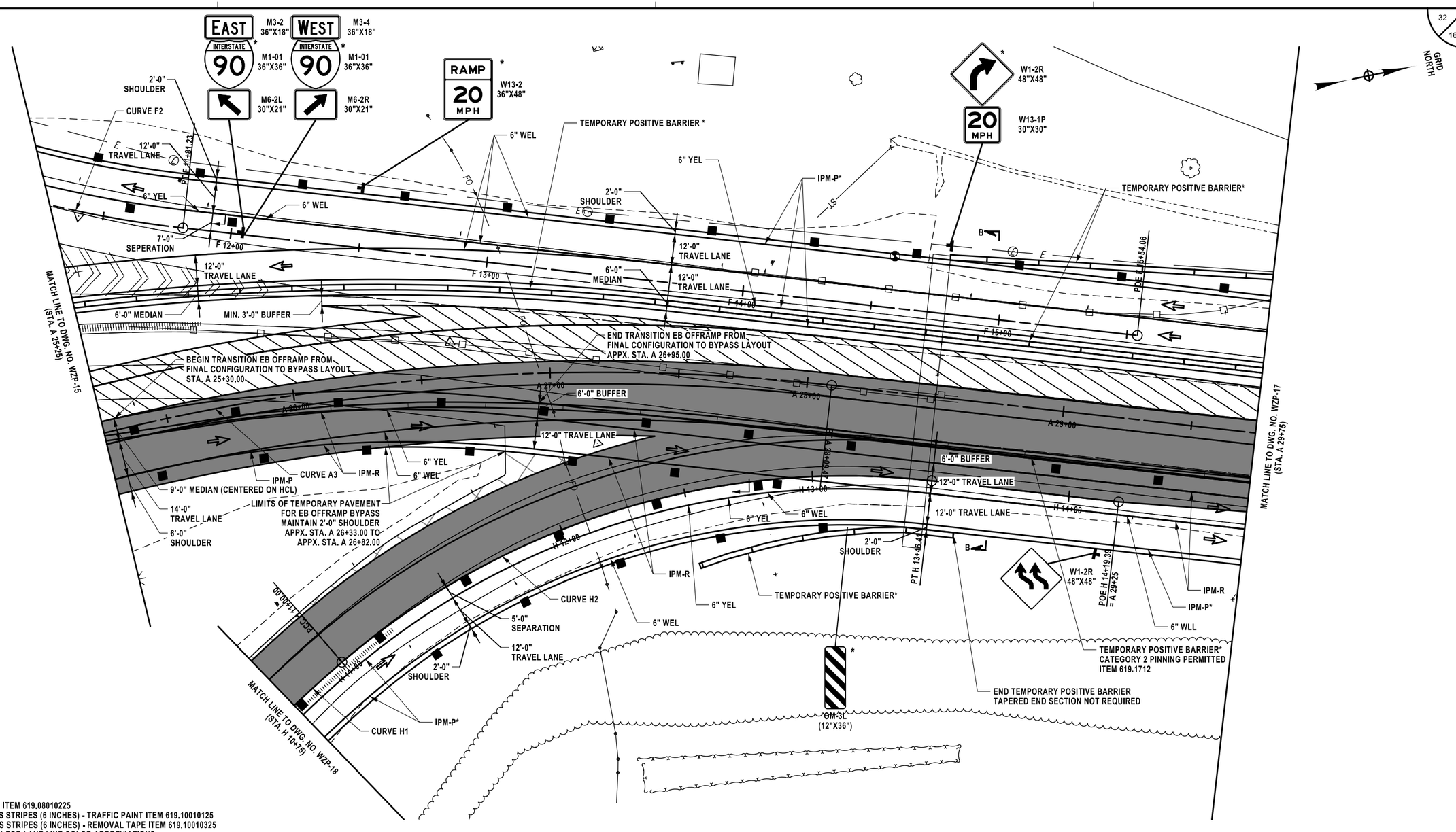
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 3
(3 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-15



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

LEGEND:
= TRAFFIC FLOW
= WORK AREA
= PAVEMENT REMOVED UNDER PREVIOUS PHASES
= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	
P.C. = A 19+17.64	
P.T. = A 25+14.66	
R = 800.00 LF	
L = 294.81 LF	
Δ = 21°6'50.4" R	

CURVE F2	
P.C. = 11+00.00	
P.T. = 11+40.73	
R = 444.00 LF	
L = 81.25 LF	
Δ = 10°28'58.8" L	

CURVE H1	
P.C. = 10+00.00	
P.T. = 11+00.00	
R = 429.01 LF	
L = 100.00 LF	
Δ = 13°21'18.0" R	

CURVE H2	
P.C. = 11+00.00	
P.T. = 13+46.41	
R = 300.00 LF	
L = 246.41 LF	
Δ = 47°3'39.6" R	

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 3
(4 OF 6)

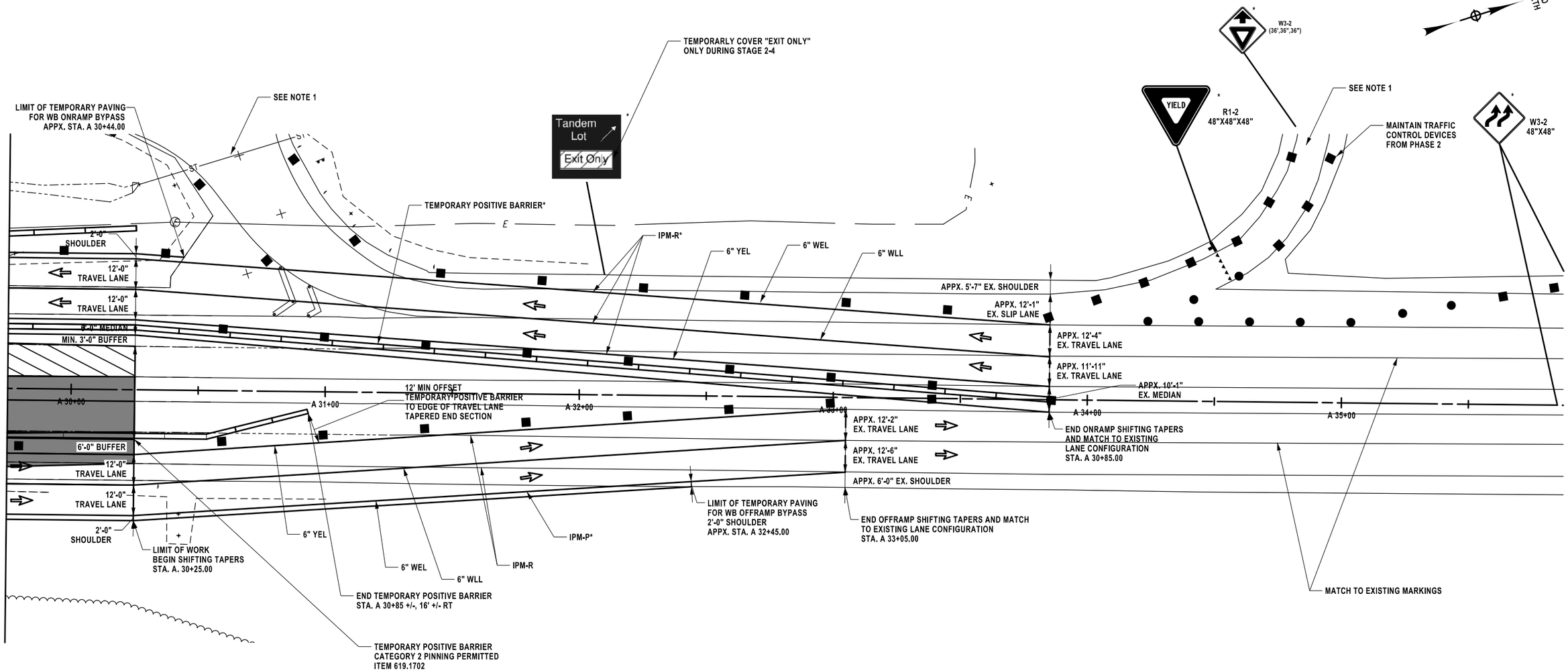
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-16

GRID NORTH

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

* INSTALLED IN PREVIOUS PHASES

NOTE:

1. ACCESS TO/FROM MAINTENANCE FACILITY AND TANDEM LOT SHALL REMAIN OPEN AT ALL TILE

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

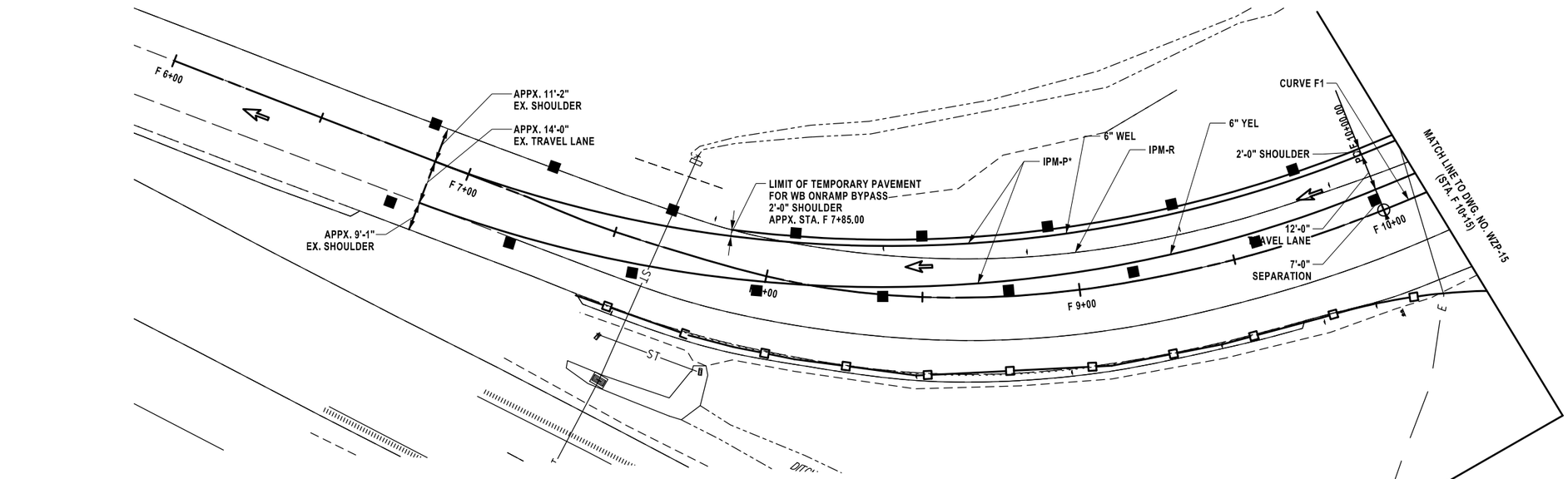
TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 3
(5 OF 6)

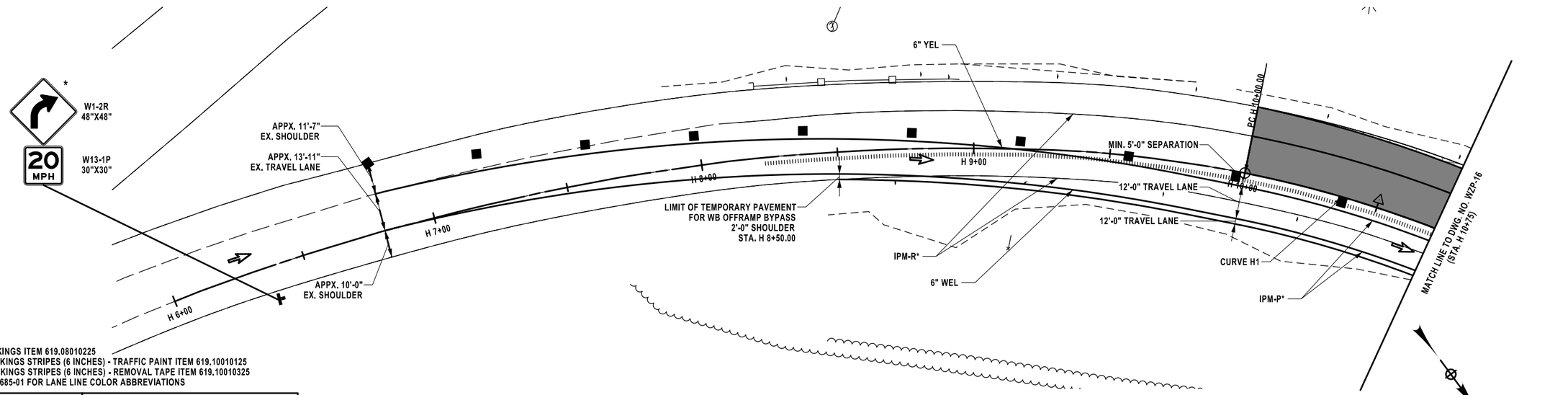
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-17

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL





RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE F1
P.C. = F 10+00.00
P.T. = F 11+00.00
R = 631.08 LF
L = 100.00 LF
Δ = 9°4'44.4" L

CURVE H1
P.C. = 10+00.00
P.T. = 11+00.00
R = 429.01 LF
L = 100.00 LF
Δ = 13°21'18.0" R

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Poeli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 3 (6 OF 6)	DRAWING NUMBER: WZP-18

GRID NORTH

TEMPORARY POSITIVE BARRIER*

A 9+00

BEGIN REMOVAL OF TEMPORARY PAVEMENT
STA. A 10+00.00

P.C. A 10+00.00

A 10+00

TEMPORARY POSITIVE BARRIER CATEGORY 2
ITEM 619.1712
STA.10+00 TO 13+00

A 11+00

CURVE A1

A 12+00

DIRECT EB RAMP TRAFFIC
TO FINAL LANE CONFIGURATION

A 13+00

MATCH LINE TO DWG. NO. WZP-20
(STA. A 15+25)

BEGIN REMOVAL OF
EXISTING EB RAMP PAVEMENT
APPX. STA. A 14+34.87

IPM-P

P.T. A 15+00.00

A 15+00

CURVE A2

A 14+00

6" YEL

6" WEL

IPM-P*

G

RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A1
P.C. = A 10+00.00
P.T. = A 15+00.00
R = 312.00 LF
L = 500.00 LF
Δ = 90°49'12.0" L

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

*INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 4
(1 OF 6)

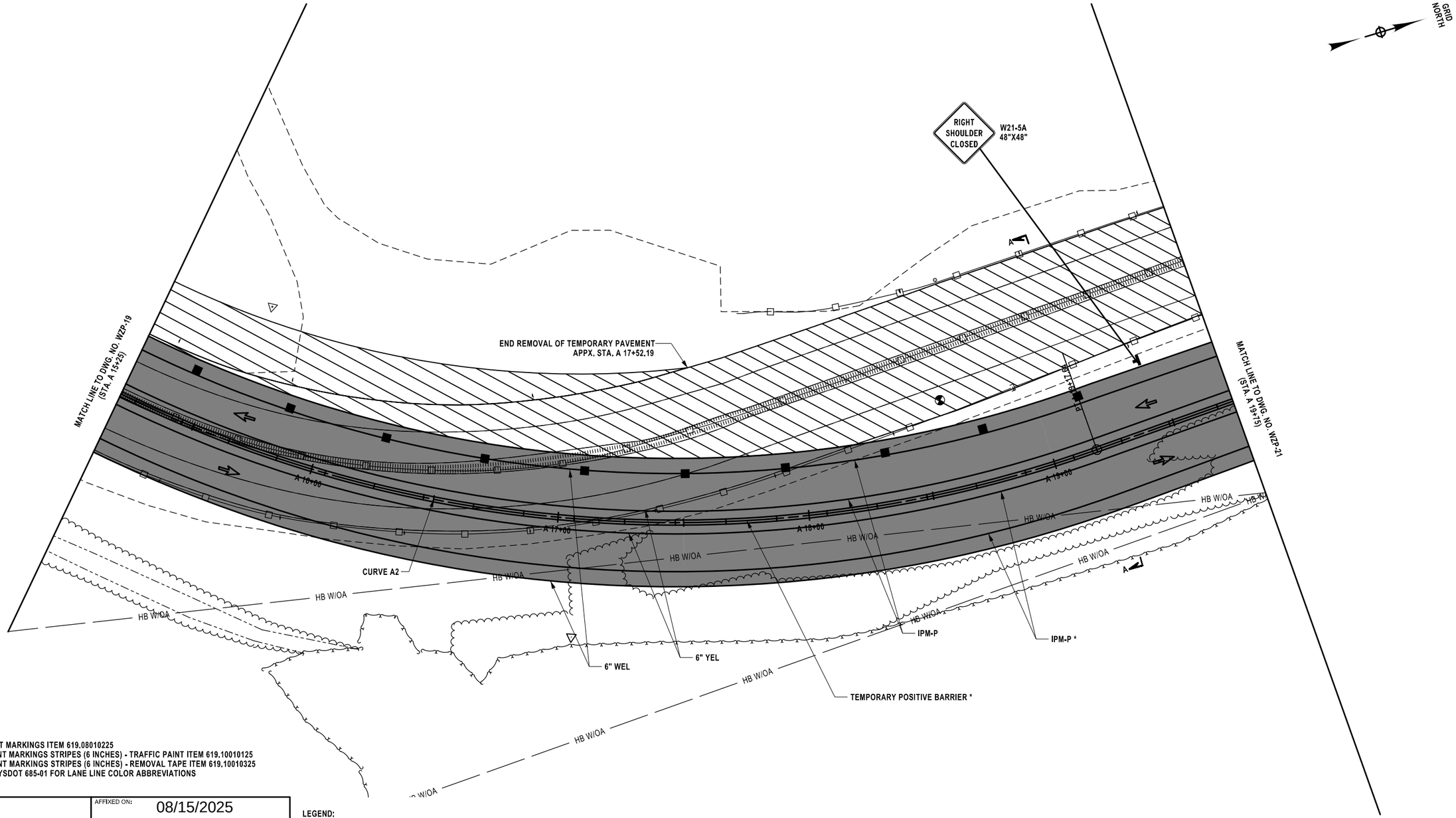
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-19

DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

GRID NORTH



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

*INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

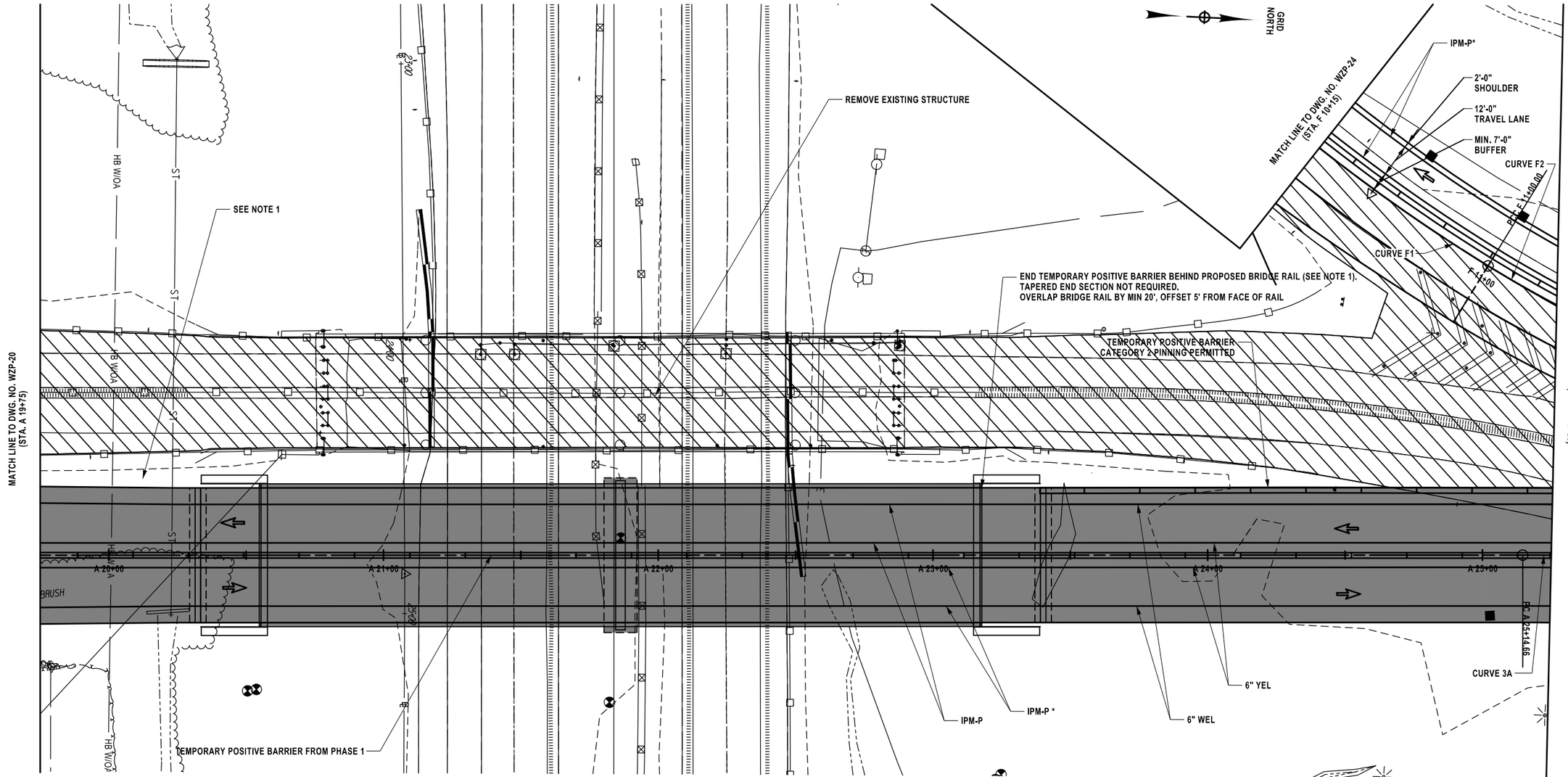
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 4 (2 OF 6)	DRAWING NUMBER: WZP-20

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	
P.C. =	A 19+17.64
P.T. =	A 25+14.66
R =	800.00 LF
L =	294.81 LF
Δ =	21°6'50.4" R

CURVE F1	
P.C. =	F 10+00.00
P.T. =	F 11+00.00
R =	631.08 LF
L =	100.00 LF
Δ =	9°4'44.4" L

CURVE F2	
P.C. =	11+00.00
P.T. =	11+40.73
R =	444.00 LF
L =	81.25 LF
Δ =	10°28'58.8" L

NOTE:

1. ALL APPROACH GUIDE RAIL AND BRIDGE RAIL TRANSITIONS SHALL BE INSTALLED PRIOR TO MAINTAINING TRAFFIC. SEE BRIDGE PLANS AND GRP-01 TO GRP-06 FOR DETAILS

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 4
(3 OF 6)

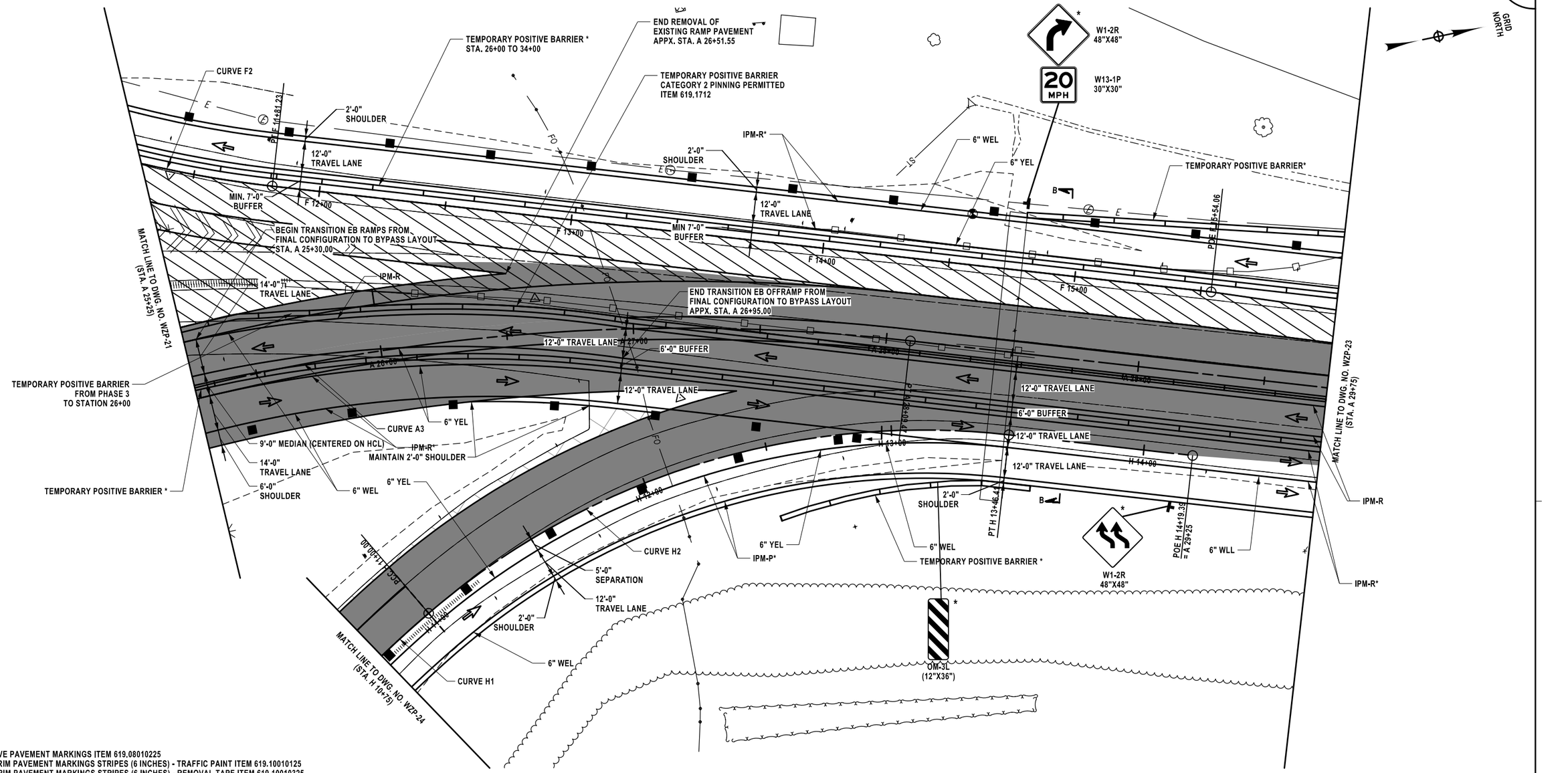
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-21

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	
P.C. = A 19+17.64	
P.T. = A 25+14.66	
R = 800.00 LF	
L = 294.81 LF	
Δ = 21°6'50.4" R	

CURVE F2	
P.C. = 11+00.00	
P.T. = 11+40.73	
R = 444.00 LF	
L = 81.25 LF	
Δ = 10°28'58.8" L	

CURVE H1	
P.C. = 10+00.00	
P.T. = 11+00.00	
R = 429.01 LF	
L = 100.00 LF	
Δ = 13°21'18.0" R	

CURVE H2	
P.C. = 11+00.00	
P.T. = 13+46.41	
R = 300.00 LF	
L = 246.41 LF	
Δ = 47°3'39.6" R	

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 4
(4 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-22

GRID NORTH

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

MATCH LINE TO DWG. NO. WZP-22 (STA. A 29+75)

LIMIT OF TEMPORARY PAVING FOR WB ONRAMP BYPASS APPX. STA. A 30+44.00

SEE NOTE 1

BEGIN TEMPORARY POSITIVE BARRIER TAPERED END SECTION STA. A 31+34 +/- , 21' +/- LT POSITIVE BARRIER MODIFIED FROM PREVIOUS PHASE

TEMPORARLY COVER ONLY DURING STAGE 2-4

Tandem Lot
Exit Only

EAST INTERSTATE 90 — M3-2 36"X18" — M1-01 36"X36" — M6-2L 30"X21"

WEST INTERSTATE 90 — M3-4 36"X18" — M1-01 36"X36" — M6-2R 30"X21"

W12-1 48"X48"

W3-2 (36",36",36")

YIELD — R1-2 48"X48"X48"

SEE NOTE 1

MAINTAIN TRAFFIC CONTROL DEVICES FROM PHASE 2

2'-0" SHOULDER
12'-0" TRAVEL LANE
MIN. 7'-0" BUFFER
12'-0" TRAVEL LANE
6'-0" BUFFER
12'-0" TRAVEL LANE
12'-0" TRAVEL LANE
2'-0" SHOULDER

IPM-R*
6" WEL
6" YEL
6" WLL
IPM-P*
IPM-R*

12' MIN OFFSET TEMPORARY POSITIVE BARRIER TO EDGE OF TRAVEL LANE TAPERED END SECTION
IPM-R

A 30+00
A 31+00
A 32+00
A 33+00
A 34+00
A 35+00

APPX. 5'-7" EX. SHOULDER
APPX. 12'-1" EX. SLIP LANE
APPX. 12'-4" EX. TRAVEL LANE
APPX. 11'-11" EX. TRAVEL LANE
APPX. 10'-1" EX. MEDIAN
APPX. 12'-2" EX. TRAVEL LANE
APPX. 12'-6" EX. TRAVEL LANE
APPX. 6'-0" EX. SHOULDER

END ONRAMP SHIFTING TAPERS AND MATCH TO EXISTING LANE CONFIGURATION STA. A 30+85.00

END TEMPORARY POSITIVE BARRIER SECTION PHASE 2 FOR DETAIL A

END OFFRAMP SHIFTING TAPERS AND MATCH TO EXISTING LANE CONFIGURATION STA. A 33+05.00

LIMIT OF TEMPORARY PAVING FOR WB OFFRAMP BYPASS 2'-0" SHOULDER APPX. STA. A 32+45.00

TEMPORARY POSITIVE BARRIER CATERGORY 2 PINNING PERMITTED ITEM 619.1712

LIMIT OF WORK BEGIN SHIFTING TAPERS STA. A. 30+25.00

END TEMPORARY POSITIVE BARRIER TAPRED END SECTION STA. 31+34/-, 12' LT

TEMPORARY POSITIVE BARRIER CATEGORY 2 PINNING PERMITTED ITEM 619.1712

MATCH LINE TO DWG. A

MATCH LINE TO DWG. A

WEST INTERSTATE 90 — M3-4 36"X18" — M1-1T 36"X36"
RIGHT LANE — M5-4 24"X18"
EAST INTERSTATE 90 — M3-2 36"X18" — M1-1T 36"X36"
LEFT LANE — M5-6 24"X18"

A 36+00

RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW
= WORK AREA
= PAVEMENT REMOVED UNDER PREVIOUS PHASES
= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

* INSTALLED IN PREVIOUS PHASES

NOTE:

1. ACCESS TO/FROM MAINTENANCE FACILITY AND TANDEM LOT SHALL REMAIN OPEN AT ALL TIMES.

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

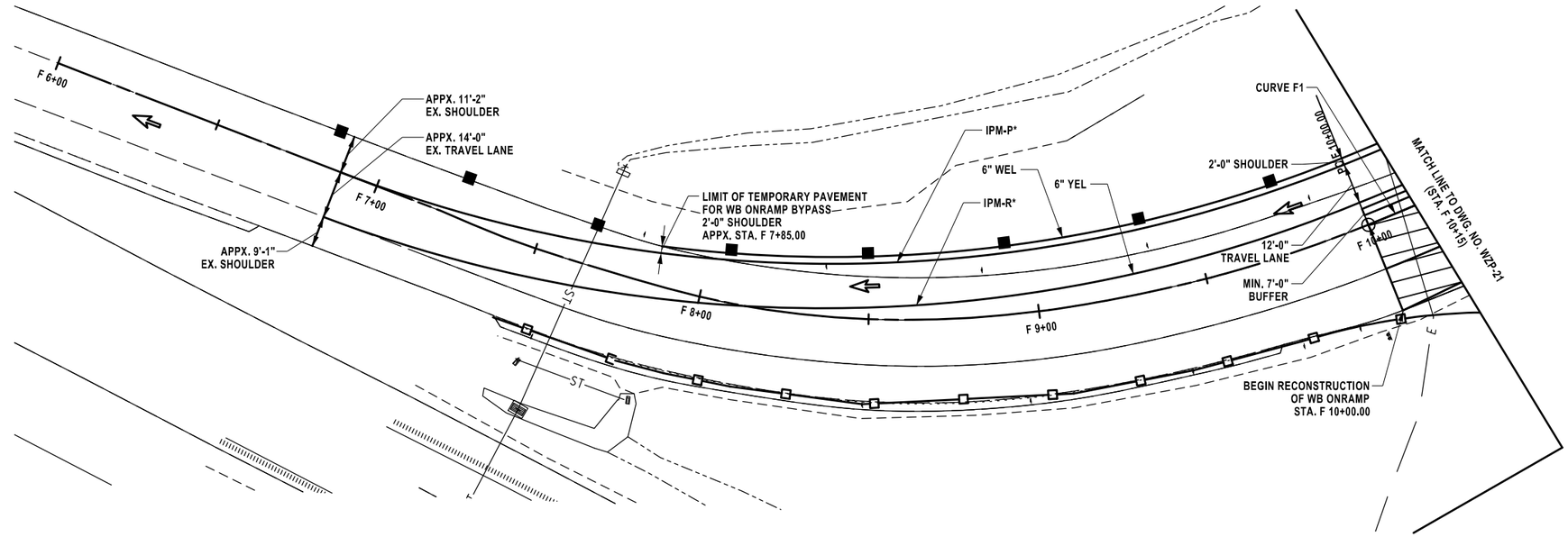
DATE	DESCRIPTION	BY	SYM.

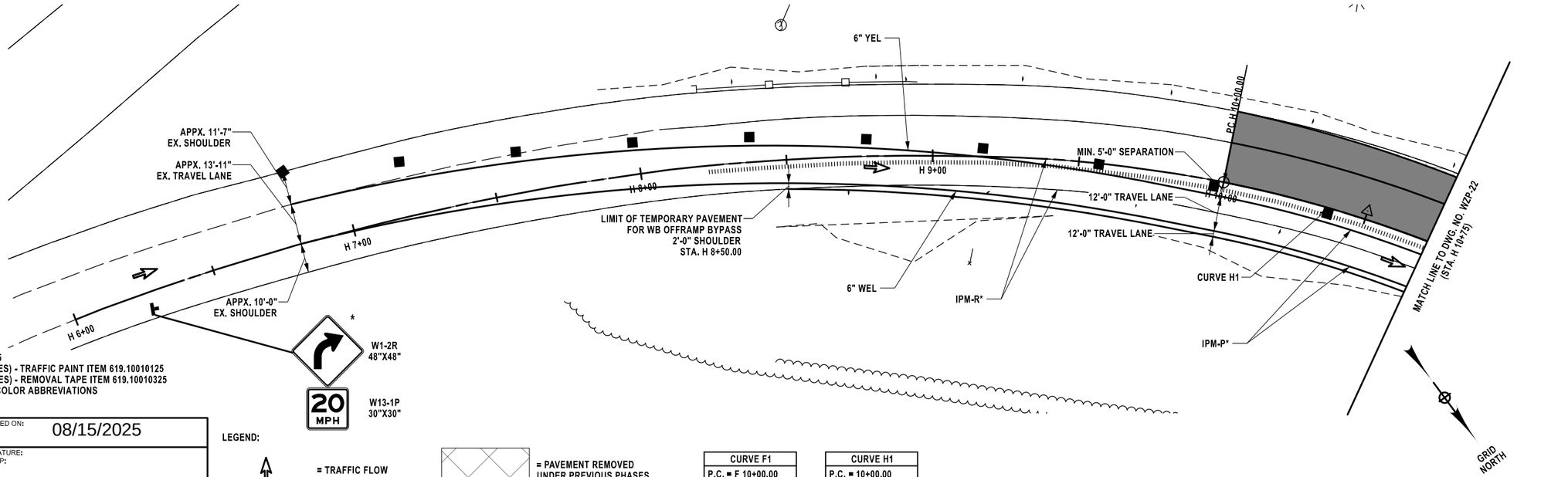
NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 4 (5 OF 6)	DRAWING NUMBER: WZP-23

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER





RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

* W1-2R 48"X48"

20 MPH — W13-1P 30"X30"

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE F1	
P.C. = F 10+00.00	
P.T. = F 11+00.00	
R = 631.08 LF	
L = 100.00 LF	
Δ = 9°4'44.4" L	

CURVE H1	
P.C. = 10+00.00	
P.T. = 11+00.00	
R = 429.01 LF	
L = 100.00 LF	
Δ = 13°21'18.0" R	

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

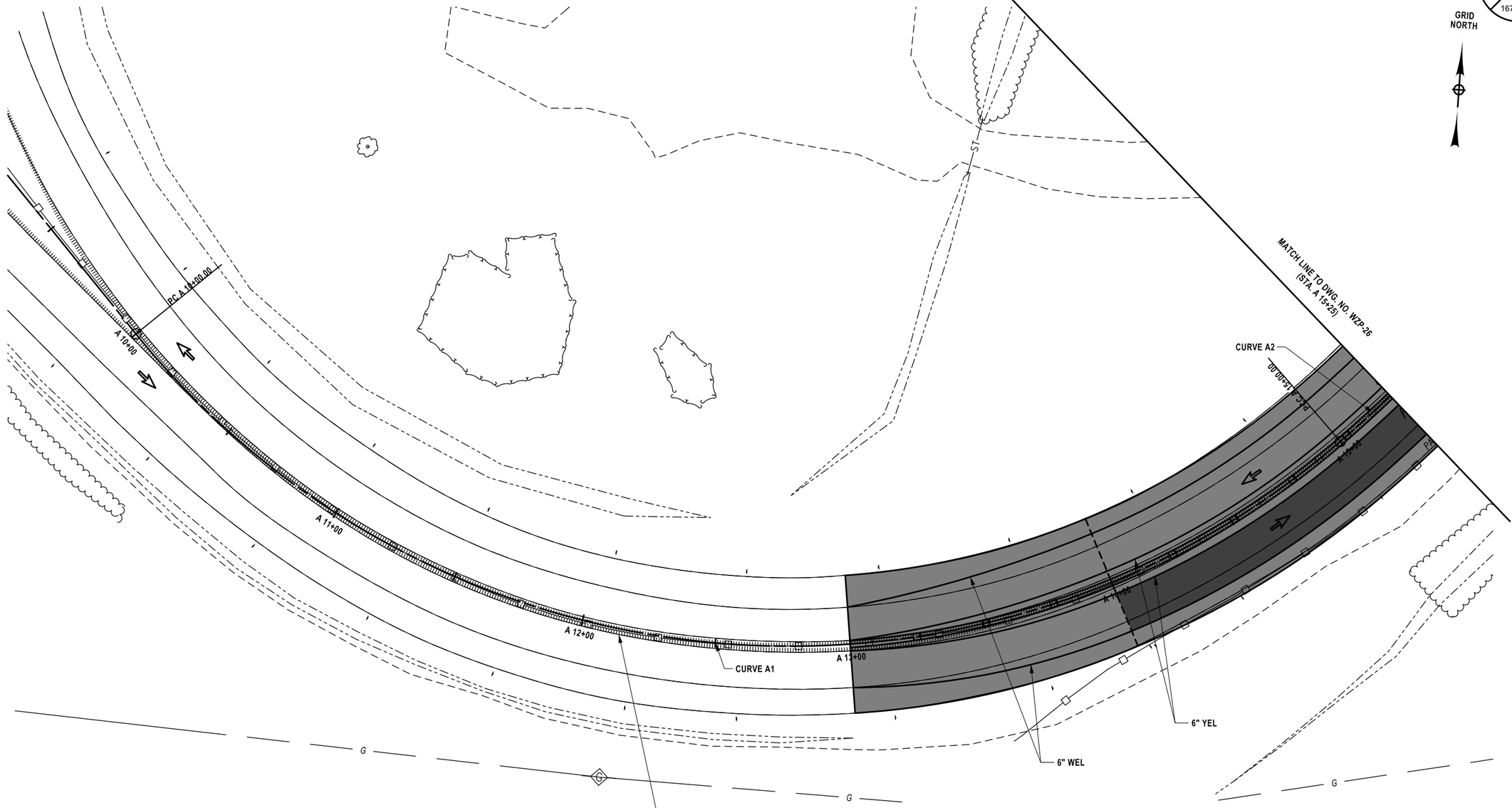
TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 4
(6 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-24

GRID NORTH



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

INSTALL THE BOX BEAM MEDIAN BARRIER PRIOR TO IMPLEMENTATION OF PHASE 5 WITHIN 5 DAYS OF THE REMOVAL OF THE TEMPORARY POSITIVE BARRIER. DRUMS SHALL BE PLACED IN THE MEDIAN AT 25' SPACING UNTIL THE BOX BEAM BARRIER IS INSTALLED AND FUNCTIONAL.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A1
P.C. = A 10+00.00
P.T. = A 15+00.00
R = 312.00 LF
L = 500.00 LF
Δ = 90°49'12.0" L

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 5
(1 OF 6)

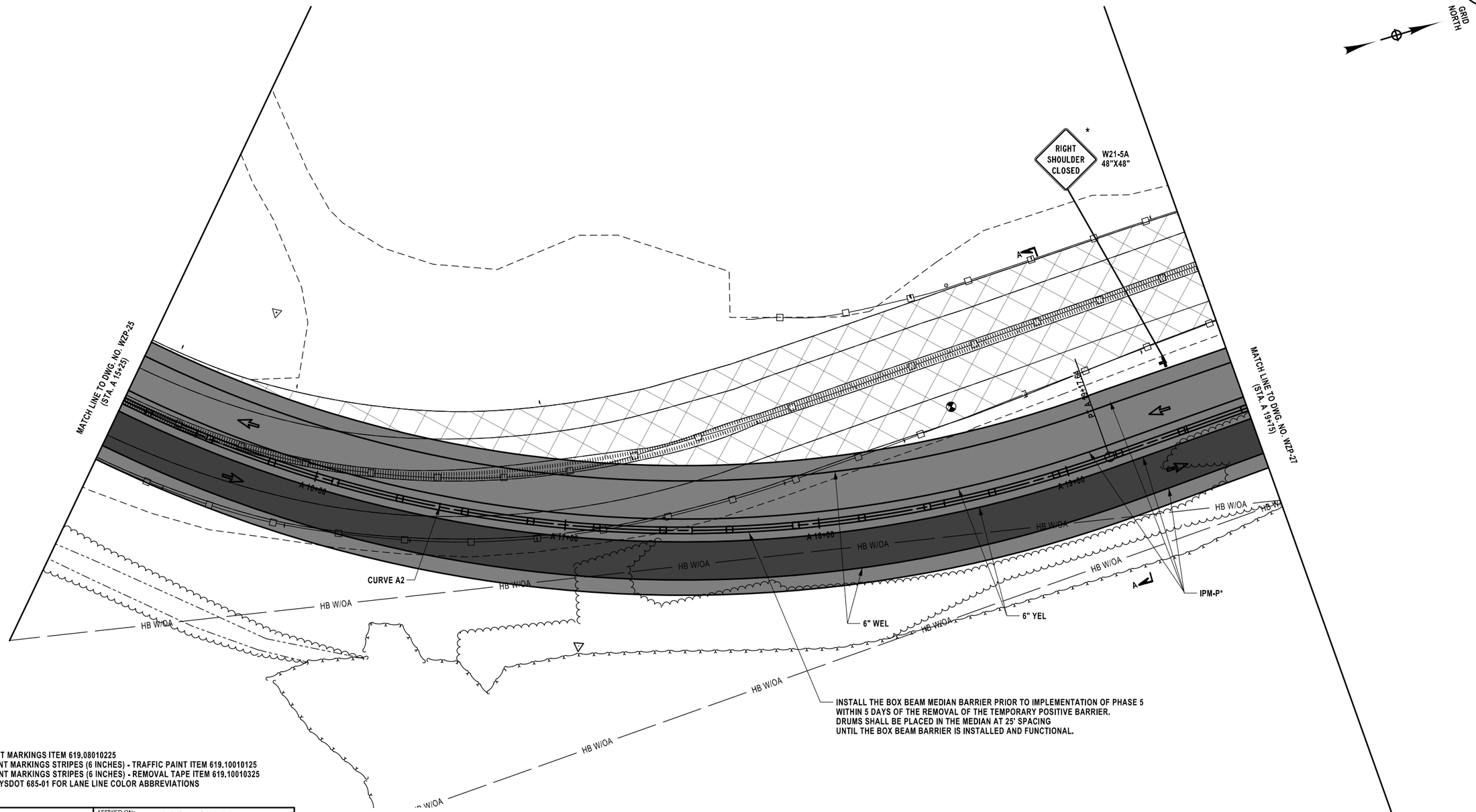
CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-25

DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

GRID NORTH



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

*INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

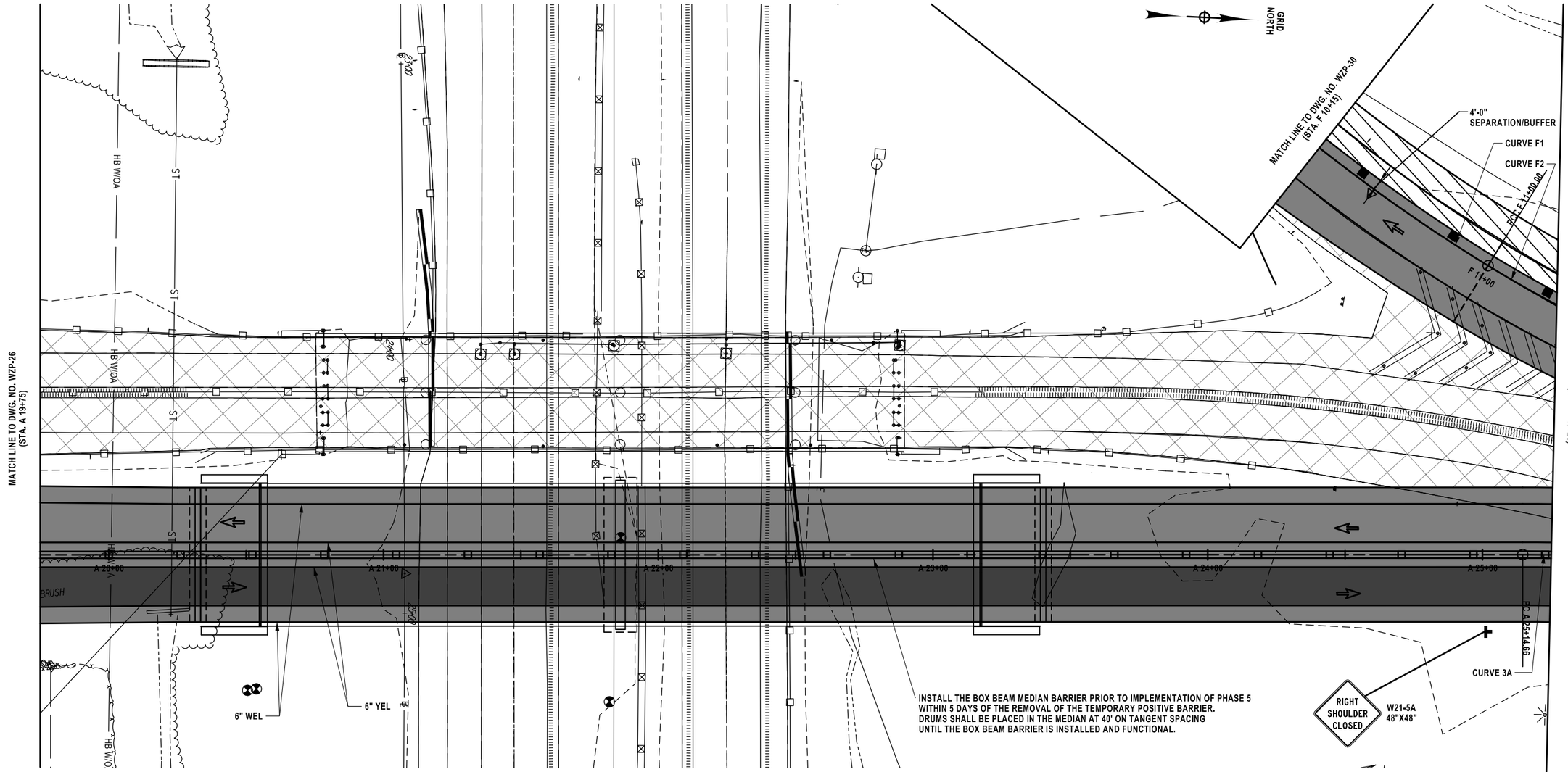
TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 5
(2 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-26

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	
P.C. = A 19+17.64	
P.T. = A 25+14.66	
R = 800.00 LF	
L = 294.81 LF	
Δ = 21°6'50.4"	R

CURVE F1	
P.C. = F 10+00.00	
P.T. = F 11+00.00	
R = 631.08 LF	
L = 100.00 LF	
Δ = 9°4'44.4"	L

CURVE F2	
P.C. = 11+00.00	
P.T. = 11+40.73	
R = 444.00 LF	
L = 81.25 LF	
Δ = 10°28'58.8"	L

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

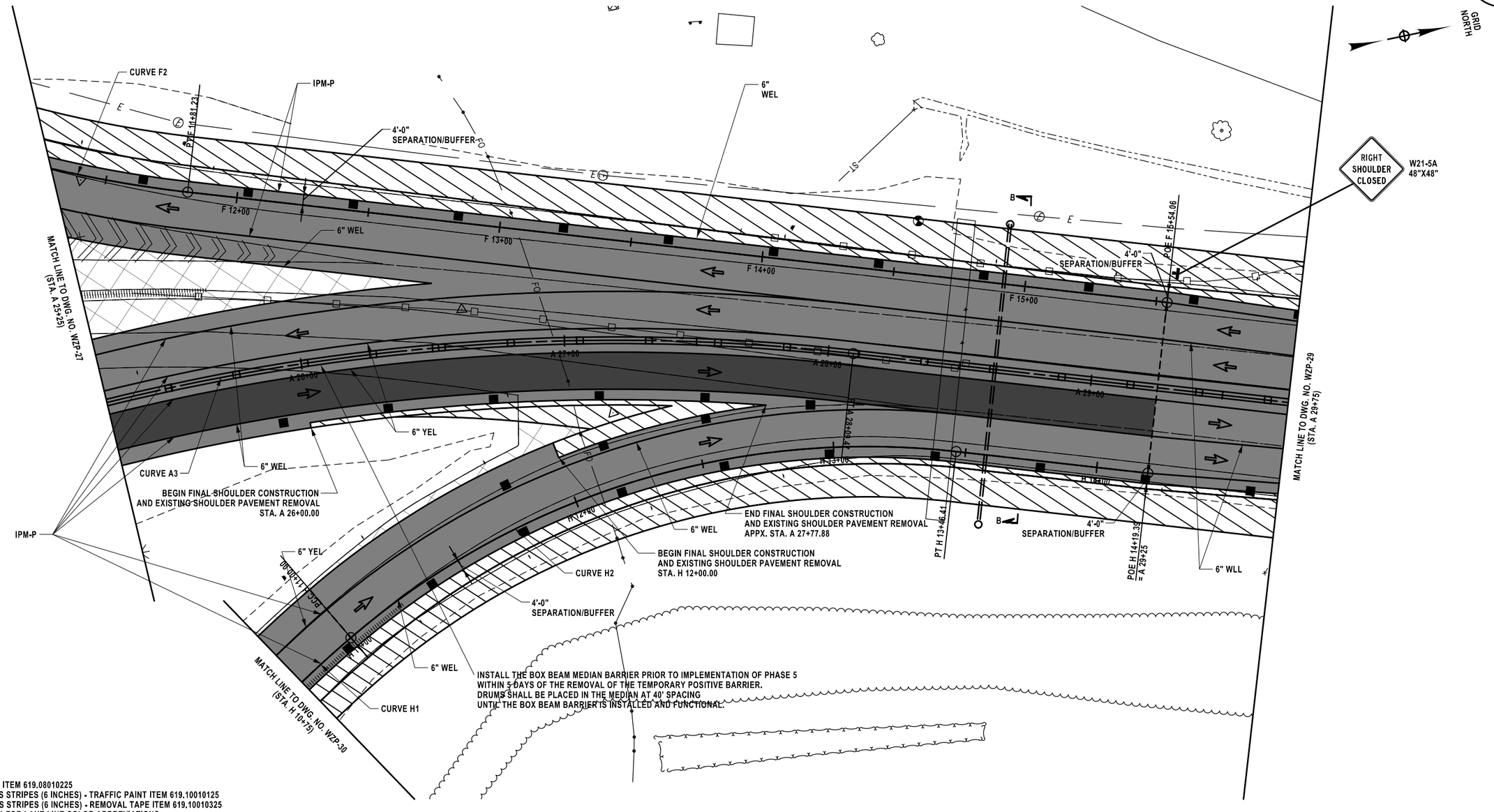
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 5 (3 OF 6)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	WZP-27

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL



RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE A3	
P.C. =	A 19+17.64
P.T. =	A 25+14.66
R =	800.00 LF
L =	294.81 LF
Δ =	21°6'50.4" R

CURVE F2	
P.T. =	11+40.73
R =	444.00 LF
L =	81.25 LF
Δ =	10°28'58.8" L

CURVE H1	
P.C. =	10+00.00
P.T. =	11+00.00
R =	429.01 LF
L =	100.00 LF
Δ =	13°21'18.0" R

CURVE H2	
P.C. =	11+00.00
P.T. =	13+46.41
R =	300.00 LF
L =	246.41 LF
Δ =	47°3'39.6" R

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44□

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL
GENERAL PLAN - PHASE 5
(4 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-28

GRID NORTH

REMOVE TEMPORARY PAVING
FOR WB ONRAMP BYPASS
APPX. STA. A 30+43.93

RIGHT SHOULDER CLOSED

W21-5A
48"X48"

4'-0"
SEPARATION/BUFFER

MATCH LINE TO DWG. NO. WZP-28
(STA. A 29+75)

A 30+00

A 31+00

A 32+00

A 33+00

A 34+00

A 35+00

4'-0"
SEPARATION/BUFFER

REMOVE TEMPORARY PAVING
FOR WB OFFRAMP BYPASS
APPX. STA. A 32+44.67

END OF SHOULDER
CONSTRUCTION
STA. A. 30+25.00

SEE NOTE 1

RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

* INSTALLED IN PREVIOUS PHASES

NOTE:

1. REINSTALL "TOLLS BY MAIL" SIGN UNDER ITEM 647.99000025. INSTALL NEW TYPE B SIGN FOUNDATION TO MATCH EXISTING (WEST POST ONLY). CONTRACTOR TO CONFIRM FOUNDATION TYPE AND SIZE. FOUNDATION WORK SHALL BE PAID UNDER ITEM 645.830202 TYPE B SIGN POST, GALVANIZED, W6X9 SECTION, BI-DIRECTIONAL BREAKAWAY BASE. A NEW SIGN POST WILL NOT BE REQUIRED.

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

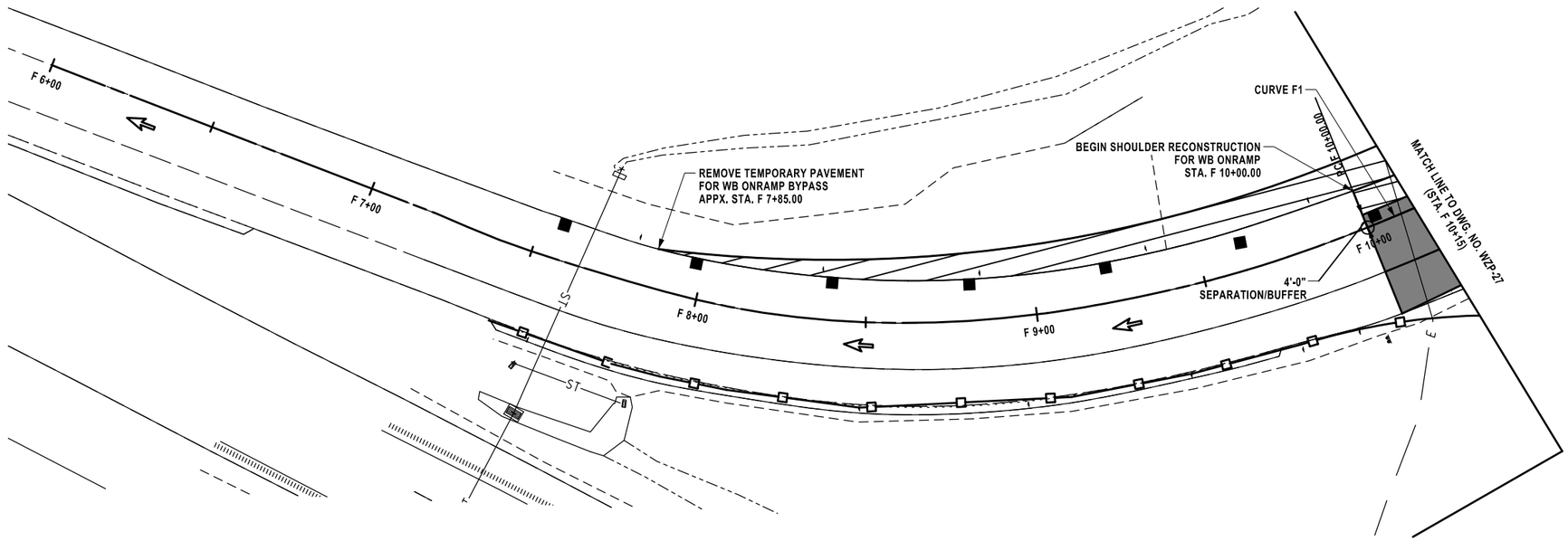
DATE	DESCRIPTION	BY	SYM.

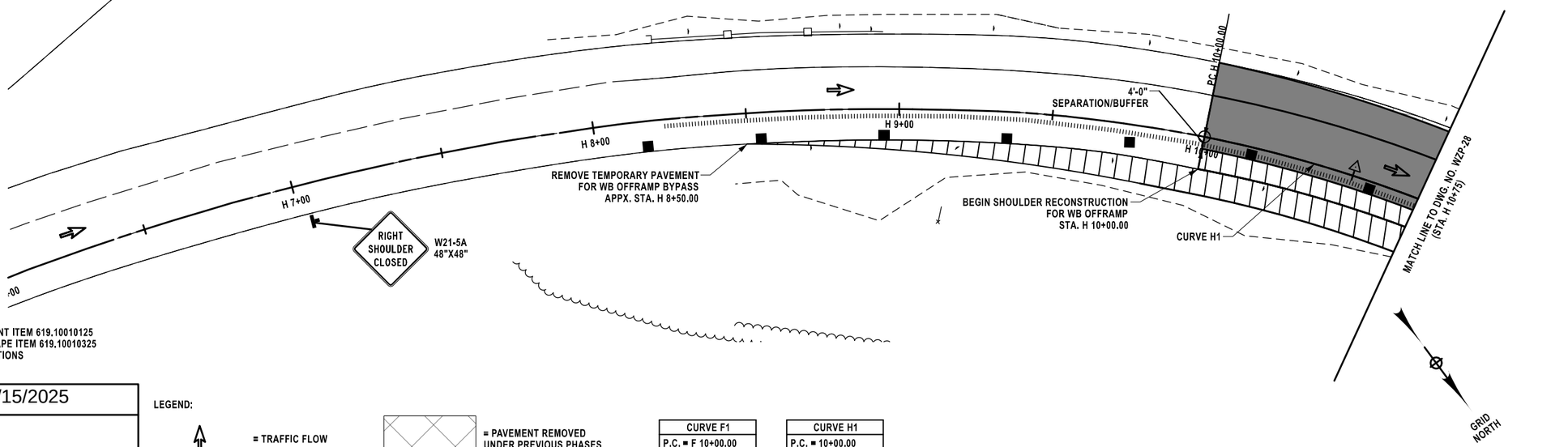
NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 5 (5 OF 6)	DRAWING NUMBER: WZP-29

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL





RPM - REMOVE PAVEMENT MARKINGS ITEM 619.08010225
IPM-P - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - TRAFFIC PAINT ITEM 619.10010125
IPM-R - INTERIM PAVEMENT MARKINGS STRIPES (6 INCHES) - REMOVAL TAPE ITEM 619.10010325
SEE STANDARD SHEET NYSDOT 685-01 FOR LANE LINE COLOR ABBREVIATIONS

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

CURVE F1
P.C. = F 10+00.00
P.T. = F 11+00.00
R = 631.08 LF
L = 100.00 LF
Δ = 9°4'44.4" L

CURVE H1
P.C. = 10+00.00
P.T. = 11+00.00
R = 429.01 LF
L = 100.00 LF
Δ = 13°21'18.0" R

* INSTALLED IN PREVIOUS PHASES

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

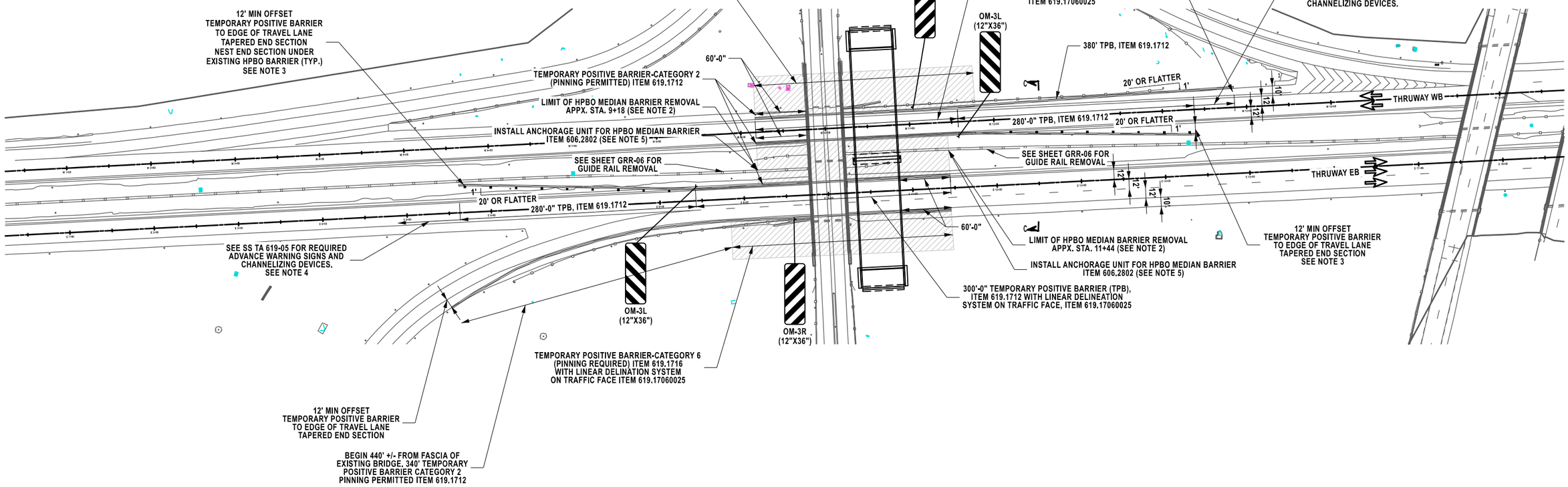
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: WORKZONE TRAFFIC CONTROL GENERAL PLAN - PHASE 5 (6 OF 6)	DRAWING NUMBER: WZP-30

GRID NORTH



LEGEND:

= TRAFFIC FLOW

= WORK AREA

= PAVEMENT REMOVED UNDER PREVIOUS PHASES

= PROPOSED WORK COMPLETED UNDER PREVIOUS PHASES

NOTES:

1. REMOVAL OF MEDIAN BARRIER IS INCLUDED IN THE GUIDE RAIL REMOVAL TABLES. ANY MEDIAN BARRIER REMOVAL BEYOND THESE LIMITS SHALL BE DONE AT NO EXTRA COST TO NYSTA.
2. A 75' OVERLAP OF TPB AND EXISTING MEDIAN BARRIER IS REQUIRED .
3. A MINIMUM DISTANCE OF 12' IS REQUIRED BETWEEN THE TPB AND THE EDGE OF PAVEMENT. IF 12' CAN NOT BE REACHED A TEMPORARY IMPACT ATTENUATOR (ITEM 619.1803) IS REQUIRE.
4. APPROACH SIGNS AND END WORK ZONE SIGNS SHALL BE PRIOR TO/BEYOND THE BEGINNING/END OF ALL RAMPS.
5. UPON THE COMPLETION OF THE PROJECT, THE ANCHOR UNIT FOR MEDIAN BARRIER SHALL BE REMOVED UNDER ITEM. 606.7946 - REMOVING AND DISPOSING ANCHORAGE UNITS FOR HPBO (MOD) CORRUGATED BEAM MEDIAN BARRIER.

60 0 60 120 180 240

1" = 120'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION MP 362.44

TITLE OF DRAWING
WORKZONE TRAFFIC CONTROL MAINLINE PLAN

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: WZP-31

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.LAMININI
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

HORIZONTAL DATUM IS REFERENCED TO NEW YORK STATE
PLANE COORDINATE SYSTEM
NAD83 WEST ZONE (NAD83/2011)

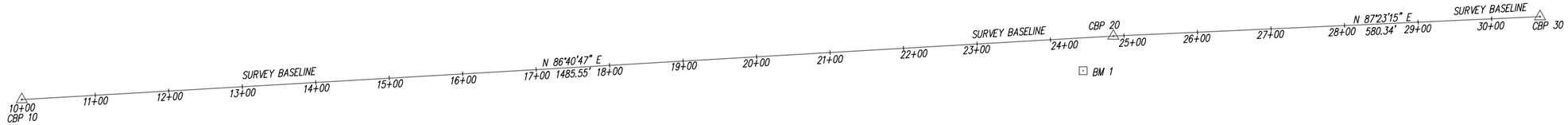
VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN
VERTICAL DATUM 1988

ALL COORDINATES, BEARING AND DISTANCE SHOW ARE GRID

UNITS ARE IN U.S. SURVEY FEET

GRID NORTH

NOT TO SCALE



PLAN

CBP 21

NAME	ELEVATION	DESCRIPTION
BM 1	576.65	BL STA. 24+41.8, 44.4 RT CHISLED BOX LOCATED ON THE SOUTHEAST CORNER OF THE SOUTHEAST WING WALL OF THE EXIT 46 RAMP BRIDGE OVER THE THRUWAY

DESIGN SUPERVISOR: D. MACDONALD
DRAFTED BY: A. BAYLOR
CHECKED BY: D. MACDONALD
DESIGNED BY: A. BAYLOR
CHECKED BY: D. MACDONALD

FILE NAME = CONTROL2.dgn
DATE/TIME = 13-AUG-2025 13:52
USER = dbaylor

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: DANIEL JAMES MACDONALD, STATE OF NEW YORK, 050613, LICENSED LAND SURVEYOR

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

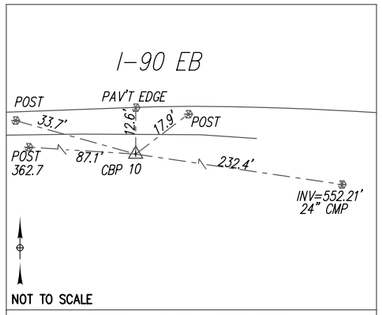
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDC

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: SURVEY CONTROL	DRAWING NUMBER: SC-1

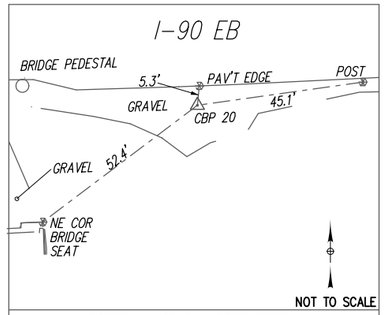


STA. 10+00.00

REBAR W/CAPSTAMPED "PDC" SET ±13' SOUTH PAVEMENT EDGE OF I-90 EB LINE AND ±1398' WEST OF THE I-390 OFFRAMP BRIDGE

NYSPC NAD (2011) WEST ZONE

N: 1,111,724.70 E: 1,396,013.17
ELEV: 555.64'

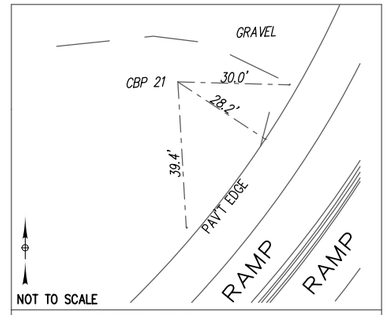


STA. 24+85.55

REBAR W/CAPSTAMPED "PDC" SET ±5' SOUTH PAVEMENT EDGE OF I-90 EB AND ±45' EAST OF THE I-390 OFFRAMP BRIDGE

NYSPC NAD (2011) WEST ZONE

N: 1,111,810.74 E: 1,397,496.23
ELEV: 556.42'

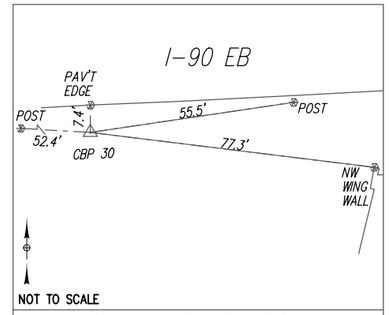


CBP 21

REBAR W/CAPSTAMPED "PDC" SET ±28' SOUTH PAVEMENT EDGE OF OFF RAMP AND ±447' SOUTH OF THE OFF RAMP BRIDGE

NYSPC NAD (2011) WEST ZONE

N: 1,111,322.85 E: 1,397,350.42
ELEV: 562.59'



STA. 30+65.89

REBAR W/CAPSTAMPED "PDC" SET ±7' SOUTH PAVEMENT EDGE OF I-90 EB AND ±45' EAST OF THE I-390 OFFRAMP BRIDGE

NYSPC NAD (2011) WEST ZONE

N: 1,111,8137.20 E: 1,398,075.97
ELEV: 549.72'

DESIGNED BY: A. BAYLOR
DRAFTED BY: D. MACDONALD
CHECKED BY: D. MACDONALD
DESIGN SUPERVISOR: D. MACDONALD

FILE NAME = baseline TIE2.dgn
DATE/TIME = 14-AUG-2025 13:55
USER = dboylor

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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

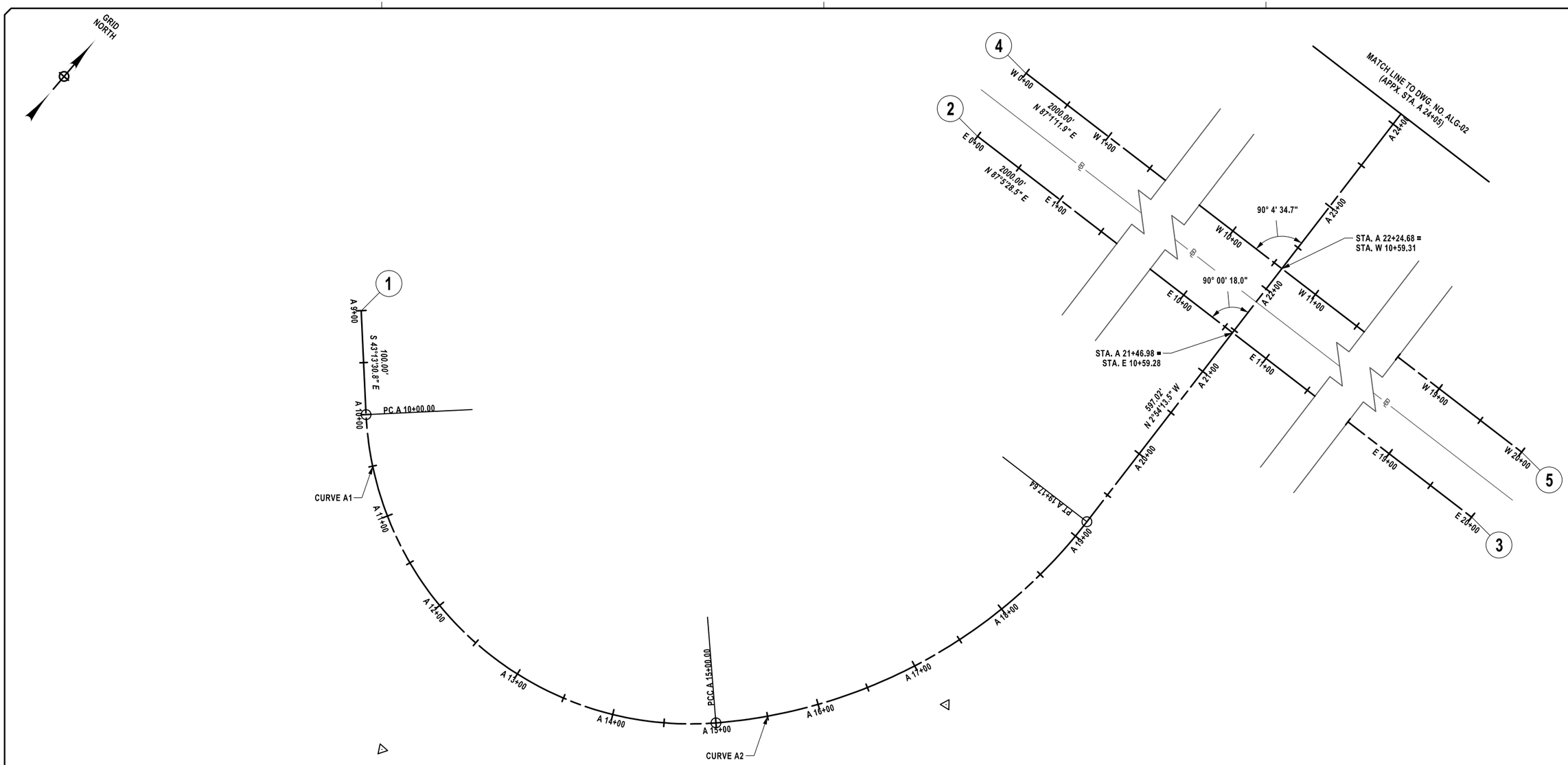
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDC

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	BASELINE TIES
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	BLT-1



CURVE A1
P.C. = A 10+00.00
P.T. = A 15+00.00
R = 312.00 LF
L = 500.00 LF
Δ = 90°49'12.0" L

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

COORDINATE TABLE

ID	NORTHING	EASTING
1	1111321.565	1396836.949
2	1111795.828	1396429.564
3	1111897.319	1398426.988
4	1111872.109	1396425.667
5	1111976.085	1398422.963

50' 0' 50' 100' 150' 200'
1" = 100'

DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: H.RESSEL

ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025
SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
☐BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

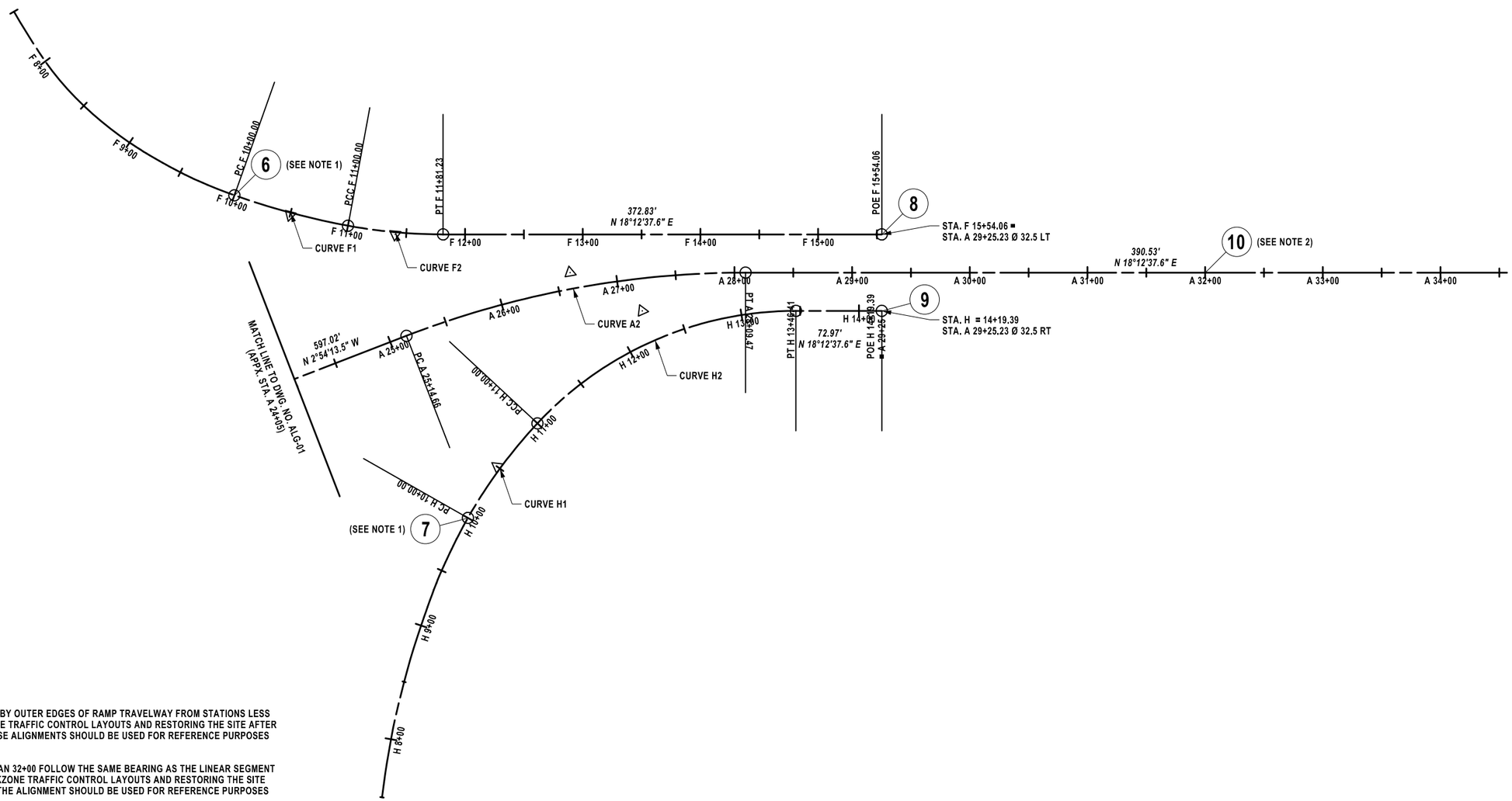
TITLE OF DRAWING
GENERAL
ALIGNMENT PLAN
(1 OF 2)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: ALG-01

GRID NORTH



NOTE:

1. F AND H ALIGNMENTS ARE INTERPOLATED BY OUTER EDGES OF RAMP TRAVELWAY FROM STATIONS LESS THAN 10+00 FOR EACH. BEYOND WORKZONE TRAFFIC CONTROL LAYOUTS AND RESTORING THE SITE AFTER CONSTRUCTION, THESE PORTIONS OF THESE ALIGNMENTS SHOULD BE USED FOR REFERENCE PURPOSES ONLY.
2. STATIONS FOR ALIGNMENT A GREATER THAN 32+00 FOLLOW THE SAME BEARING AS THE LINEAR SEGMENT PRIOR TO STATION A 32+00. BEYOND WORKZONE TRAFFIC CONTROL LAYOUTS AND RESTORING THE SITE AFTER CONSTRUCTION, THIS PORTION OF THE ALIGNMENT SHOULD BE USED FOR REFERENCE PURPOSES ONLY.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

CURVE A3	
P.C. = A 19+17.64	
P.T. = A 25+14.66	
R = 800.00 LF	
L = 294.81 LF	
Δ = 21°6'50.4" R	

CURVE F1	
P.C. = F 10+00.00	
P.T. = F 11+00.00	
R = 631.08 LF	
L = 100.00 LF	
Δ = 9°4'44.4" L	

CURVE F2	
P.C. = 11+00.00	
P.T. = 11+40.73	
R = 444.00 LF	
L = 81.25 LF	
Δ = 10°28'58.8" L	

CURVE H1	
P.C. = 10+00.00	
P.T. = 11+00.00	
R = 429.01 LF	
L = 100.00 LF	
Δ = 13°21'18.0" R	

CURVE H2	
P.C. = 11+00.00	
P.T. = 13+46.41	
R = 300.00 LF	
L = 246.41 LF	
Δ = 47°3'39.6" R	

COORDINATE TABLE

ID	NORTHING	EASTING
6	1112115.261	1397309.718
7	1112218.029	1397632.231
8	1112627.438	1397513.196
9	1112607.125	1397574.94
10	1112878.293	1397629.937

50' 0' 50' 100' 150' 200'
1" = 100'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA)☐ ☐BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: GENERAL ALIGNMENT PLAN (2 OF 2)

CONTRACT NUMBER: TAB 25-17B
DATE: 8/15/2025
DRAWING NUMBER: ALG-02

DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
CHECKED BY: H.RESSEL

UNDERDRAIN TABLE

ITEM 206.0201 - TRENCH AND CULVERT EXCAVATION
ITEM 605.0901 - UNDERDRAIN FILTER TYPE 1
605.1702 - OPTIONAL UNDERDRAIN PIPE 6" DIA

LOCATION			LENGTH	206.0201 (CY)	605.0901 (CY)	605.1702 (LF)
FROM STATION	TO STATION	SIDE				
A 13+00	A 20+55.4	LT	755.4	56.0	56.0	755.4
A 20+05.24	20+55.4	RT	50.2	3.7	3.7	50.2
A 23+17.08	A 24+53.6	LT	136.5	10.1	10.1	136.5
A 23+17.08	A 27+40.	RT	422.9	31.3	31.3	422.9
H 10+00	H 14+19.3	RT	419.3	31.1	31.1	419.3
F 10+00	F 15+54.0	LT	554.0	41.0	41.0	554.0
A 29+25	A 30+25	LT	100.0	7.4	7.4	100.0
A 29+25	A 30+25	RT	100.0	7.4	7.4	100.0
			TOTAL:	188.0	188.0	2538.3

TABLE OF R.O.W. MARKERS

ITEM 625.03 - CONCRETE ROW MARKER - TYPE h (HIGH)

BASELINE STATION	OFFSET	SIDE	NORTHING	EASTING	NORTHING (AS-BUILT)	EASTING (AS BUILT)	ITEM 625.03
25+79.93	128.07	RT	1111686.73	1397596.3			1
25+21.52	458.35	RT	1111348.84	1397552.31			1
						TOTAL:	2

DELINEATOR TABLE

ITEM 646.06030025 INSTALL DELINATOR OR TENTH MILE MAKER ON POST
ITEM 646.06120025 INSTALL DELINATOR OR TENTH MILE MAKER. BACK TO BACK, BAND OR BRACKET MOUNTED
ITEM 646.08010025 INSTALL SNOWPLOW MARKER, SINGLE UNIT
ITEM 646.08020025 INSTALL SNOW PLOW MARKER DOUBLE UNIT
ITEM 646.50000025 REMOVE AND DISPOSE OF DELINEATORS AND POSTS

LOCATION					LENGTH	646.06030025 (EA)	646.06120025 (EA)	646.08010025 (EA)	646.08020025 (EA)	646.50000025 (EA)
FROM STATION	OFFSET	TO STATION	OFFSET	SIDE						
A 13+00		A 19+00		RT	600.0	12				
A 19+00		A 20+62		RT	162.0	2				
A 13+99.42				RT					1	
A 23+03		A 27+00		RT	397.0	8				8
A 26+01.08				RT				1		1
A 13+00		A 19+00		N/A	600.0		12			
A 19+00		A 34+00		N/A	1500.0		30			
A 13+00		A 19+00		LT	600.0	12				12
A 17+82.2				LT				1		1
A 19+00		A 20+62		LT	162.0	2				2
A 23+03		A 26+00		LT	297.0	3				3
A 26+01.08				LT					1	1
H 10+00		H 15+00		RT	500.0	10				10
H 10+00		H 12+00		LT	200.0	4				4
F 10+00		F 11+50		RT	150.0	3				3
F 9+55.8				RT					1	1
F 10+00		F 12+00		LT	200.0	4				4
F 12+00		F 16+50		LT	450.0	5				5
**E 10+34±				LT			1			
**W 10+85±				RT			1			
E 10+86.75				LT				1		1
W 10+06.5				LT				1		1
E 9+00		E 11+00		RT	200.0	2				2
E 9+00		E 11+00		LT			2			
W 9+00		W 11+00		RT			2			
W 9+00		W 11+00		LT			2			
					TOTAL:	67.0	50.0	4.0	3.0	59.0

** INSTALL MILE POST MARKER CENTERED ON END FACE OF PIER, SEE DWG. ST-4

UTILITY CONTACT INFORMATION

NAME OF OWNER	FACILITIES	CONTACT	ADDRESS	CSZ	PHONE	EMAIL
Adesta	NYSTA Fiber backbone -UG	Andrew Conklin	N/A	N/A	(518) 869-5053	N/A
Rochester Gas and Electric	Gas - UG	Meghann Kendall	1300 Scottsville Rd	Rochester, NY 14624	(585) 315-0280	meghann_kendall@rge.com

TABLE OF PROPERTIES TO BE ACQUIRED BY THE NEW YORK STATE THRUWAY AUTHORITY

MAP NO.	PARCEL NO.	REPUTED OWNER	TRN	LIBER	PAGE	TYPE OF TAKE	AREA		ORIGINAL AREA	% OF ORIG. AREA	REMARKS
							S.F.	ACRE	ACRE		
1008	1013	GRHS FOUNDATION, INC.	1	363	58	P.E.	9,900	0.227	66.25	0.35	

ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025
SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
MISCELLANEOUS TABLES (SHEET 1 OF 3)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: MST-01

GUIDE RAILING REMOVAL TABLE

ITEM 606.7101 - REMOVING AND DISPOSING HPBO (MOD.) CORRUGATED BEAM GUIDE RAILING
ITEM 606.7201 - REMOVING AND DISPOSITING HPBO (MOD.) CORRUGATED BEAM MEDAIN BARRIER
ITEM 606.73 REMOVING AND DISPOSING BOX BEAM GUIDE RAILING
ITEM 606.74 REMOVING AND DISPOSING BOX BEAM MEDIAN BARRIER
ITEM 606.75 REMOVING AND DISPOSING CONCRETE BARRIER
ITEM 606.7510 - REMOVING AND DISPOSING CONCRETE BARRIER - HALF SECTION
ITEM 606.7910 - REMOVING AND DISPOSTING ANCHROAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER
ITEM 606.7920 - REMOVING AND DISPOSING BOX BEAM GUIDE RAIL TURNED DOW TERMINAL
ITEM 606.7921 - REMOVING AND DISPOSING BOX BEAM ENERGY-ABSORBING TERMINAL
ITEM 606.7931 - REMOVING AND DISPOSING BOX BEAM MEDAIN BARRIER END ASSEMBLY - TYPE B

LOCATION					LENGTH	ITEM 606.7101 (LF)	ITEM 606.7201 (LF)	ITEM 606.73 (LF)	ITEM 606.74 (LF)	ITEM 606.75 (LF)	ITEM 606.7510 (LF)	ITEM 606.7910 (EA)	ITEM 606.7920 (EA)	IITEM 606.7921 (EA)	ITEM 606.7931 (EA)
FROM		TO		SIDE											
STATION	OFFSET	STATION	OFFSET												
A 13+51	45	A 13+58.2	45	RT	7.2								1		
A 13+58.2	45	A 20+62	37	RT/LT	703.8			704							
A 23+03	39	A 24+41.8	30	LT	138.8			139							
A 24+41.8	30	A 24+49	30	LT	7.2								1		
A 17+75	88	A 17+82.2	88	LT	7.2								1		
A 17+82.2	88	A 20+62	78	LT	279.8			280							
A 23+03	79	A 24+42.8	99	LT	139.8			140							
A 24+42.8	99.0	A 24+50	99	LT	7.2								1		
A 8+00	0	A 8+11	0		11.0										1
A 8+11	0	A 20+75	60	LT	2053.0				2053						
A 22+88	59.0	A 28+64	0	LT	1112.0				1112						
A 28+64	0	A 34+00	0		536.0					536					
F 9+55.8	25	F 10+34.8	49	RT	79.0			79							
F 10+34.8	49	F 10+42	49	RT	7.2								1		
F 13+98	7.5	F 14+05.2	7.5	LT	7.2								1		
F 14+05.2	7.5	F 16+03	17	LT	197.8			198							
F 16+03	7.5	F 16+10.2	17	LT	7.2								1		
E 6+23	84	E 6+30.2	84	RT	7.2								1		
E 6+30.2	84	E 9+79	28	RT	348.8			349							
E 9+33	28	E 10+21	28	RT	88.0						88				
E 9+18	31	E 9+90	31	LT	72.0		72								
E 9+90	31	E 10+51.5	31	LT	61.5	62									
E 10+51.5	29	E 10+76.5	33	LT	25.0							1			
W 9+15	33	W 9+40	31	RT	25.0							1			
W 9+40	31	W 10+08	31	RT	68.0	68									
W 10+08	31	W 11+44	31	RT	136.0		136								
W 9+78	28	W 10+67	28	LT	89.0						89				
W 10+23	28	W 12+97	23	LT	274.0			274							
W 12+97	23	W 13+47	23	LT	50.0									1	
					TOTAL:	**129.5**	**208.0**	**2161.8**	**3165.0**	**536.0**	**177.0**	**2.0**	**8.0**	**1.0**	**1.0**

CHECKED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
DESIGNED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority
PDG POPLI DESIGN GROUP

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: MISCELLANEOUS TABLES (SHEET 2 OF 3)

CONTRACT NUMBER: TAB 25-17B
DATE: 8/15/2025
DRAWING NUMBER: MST-02

GUIDE RAILING TABLE

ITEM 606.10 - BOX BEAM GUIDE RAILING
ITEM 606.11 - BOX BEAM MEDIAN BARRIER
ITEM 606.100002 BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)
ITEM 606.120101 - BOX BEAM END PIECE
ITEM 606.120102 - BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE 1
ITEM 606.11 BOX BEAM MEDAIN BARRIER
ITEM 606.110002 BOX BEAM MEDIAN BARRIER (SHOP BENT OR SHOP MITERED)
ITEM 606.1402 - BOX BEAM MEDIAN BARRIER END ASSEMBLY, TYPE B
ITEM 606.2801 - HPBO (MOD.) CORRUGATED BEAM MEDIAN BARRIER
ITEM 606.2802 - ANCHORAGE UNITS FOR HPBO (MOD.) CORRUGATED BEAM MEDIAN BARRIER
ITEM 606.3041 SINGLE SLOPE CONCRETE MEDAIN BARRIER (OPTIONAL)
ITEM 606.8805 - TRANSITION BETWEEN BOX BEAM MEDIAN BARRIER AND SINGLE SLOPE CONCRETE MEDIAN BARRIER

LOCATION					LENGTH	ITEM 606.10 (LF)	ITEM 606.100002 (LF)	ITEM 606.11 (LF)	ITEM 606.110002 (LF)	ITEM 606.120101 (EA)	ITEM 606.120102 (EA)	ITEM 606.1402 (LF)	ITEM 606.2801 (LF)	ITEM 606.2802 (EA)	ITEM 606.3041 (LF)	ITEM 606.8805 (EA)
FROM		TO		SIDE												
STATION	OFFSET	STATION	OFFSET													
A 13+09.42	50	A 13+99.42	25.5	RT	90.0	18					1					
A 14+00	25.5	A 19+17	25.5	RT	517.0		517									
A 19+17	25.5	A 19+99.42	24.5	RT	82.4	83										
A 23+73.08	24.5	A 26+01.08	24.5	RT	228.0	228										
A 26+01.08	24.5	A 26+08.28	24.5	RT	7.2					1						
A 8+00	0	A 8+11	0		11.0							1.0				
A 8+11	0	A 19+17	0		1106.0				1106							
A 19+17	0	A 20+28.88	0		111.9			112								
A 23+43.63	0	A 28+59.63	0		516.0			516								
A 28+59.63	0	A 29+11.63	0		52.0											1
A 29+11.63	0	A 34+00	0		488.4										488.4	
A 19+02.22	25.5	A 19+09.42	25.5	LT	7.2					1						
A 19+09.42	25.5	A 19+99.42	24.5	LT	90.0	90										
A 23+73.08	24.5	A 23+91.08	24.5	LT	18.0	18										
A 23+91.08	24.5	A 24+81.08	48.5	LT	90.0	18					1					
A 23+73.08	24.5	A 26+01.08	24.5	RT	228.0	228										
A 26+01.08	24.5	A 26+08.28	24.5	RT	7.2					1						
F 9+55.8	25	F 10+27.8	40	RT	72.0						1					
E 9+18	31	E 10+86.75	30	LT	168.8								169			
E 10+86.75	30	E 11+11.75	30	LT	25.0									1		
W 9+81.5	31	W 10+06.5	30	RT	25.0									1		
W 10+06.5	31	W 11+44	30	RT	137.5								138			
					TOTAL:	**683.0**	**517.0**	**627.9**	**1106.0**	**3.0**	**3.0**	**1.0**	**306.3**	**2.0**	**488.4**	**1.0**

NOTE:

SEE BRIDGE PLANS FOR LIMITS OF ITEM 606.11000016- BOX BEAM MEDIAN BARRIER ON STRUCTURES AND ITEM 568.70-TRANSITION BRIDGE RAILING.

CHECKED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: E.BAXTER
DESIGNED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:

SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
MISCELLANEOUS TABLES
(SHEET 3 OF 3)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: MST-03

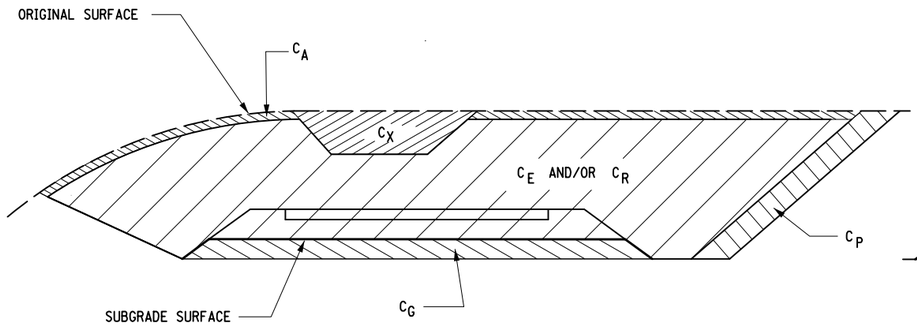
DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: M.STONEMETZ
DRAFTED BY: M.STONEMETZ
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER

SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY)

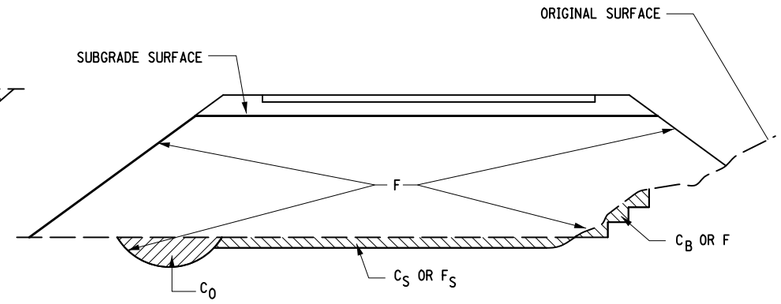
SOURCE	EXCAVATION			ITEM 203.02	ITEM 203.03
	T_E	C_R	T_U	C_T	F_T
EB	1481		5054	6535	27650
WB OFF RAMP			491	491	4
WB ON RAMP			242	242	67
DRAINAGE			2247	2247	
MAINLINE SHOULDER REMOVAL			355	355	
PAVEMENT REMOVAL			182	182	
STRUCTURE			235	235	4980
TOTALS			8806	10287	32701

SUMMARY OF TRENCH AND CULVERT EXCAVATION (ITEMS 206.0201 ONLY)

SOURCE	EXCAVATION		ITEM 206.0201	ITEM 206.04
	ROCK	NON-ROCK		
DRAINAGE		174	174	
UNDERDRAIN		188	188	
TOTALS		362	362	



CUT SECTION



FILL SECTION

DEFINITIONS:

C_B - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).

C_G - EXCAVATION FOR SUBGRADE IMPROVEMENT.

C_P - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.

C_E - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING C_G AND C_P.

T_E - $(C_B + C_G + C_P + C_E)$ TOTAL EARTH EXCAVATION ASSUMED SUITABLE FOR EMBANKMENT CONSTRUCTION.

C_A - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) IN CUT.

C_S - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.

C_X - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP

C_O - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP

T_U - $(C_A + C_S + C_X + C_O)$ TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.

C_R - PORTION OF CUT ASSUMED TO BE ROCK, INCLUDING C_G IF APPLICABLE.

C_T - $(T_E + T_U + C_R)$ TOTAL EXCAVATION.

DEFINITIONS:

F_B - FILL REQUIRED TO REPLACE BENCHES.

F_S - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.

F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.

F_T - $(F_B + F_S + F)$ TOTAL FILL REQUIRED.

T_A - $(T_E \times F_E + C_R \times F_R)$ THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.

F_E - SHRINKAGE FACTOR FOR EARTH

F_R - SWELL FACTOR FOR ROCK

NOTES:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.

203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL

203.03 EMBANKMENT IN PLACE

206.0201 TRENCH AND CULVERT EXCAVATION

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: EARTHWORK SUMMARY (SHEET 1 OF 2)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: ES-1

SUBDIVISION NO.	LOCATION (STATION TO STATION)	SUITABLE EXCAVATION					ROCK	UNSUITABLE EXCAVATION					TOTAL EXCAVATION	EMBANKMENT			
		C_B	C_G	C_P	C_E	T_E	C_R	C_A	C_S	C_X	C_O	T_U	C_T	F_B	F_S	F	F_T
EB	13+00 TO 20+55.42	1386				1386		2786				2786	4172			15575	15575
	23+17.08 TO 30+25	94				94		2267				2267	2361			5540	5540
WB OFF RAMP	10+00 TO 12+64.30							491				491	491			4	4
WB ON RAMP	10+00 TO 13+26.67							242				242	242			67	67
	TOTALS	1480				1480		5786				5786	7266			21186	21186

FOR DEFINITIONS AND NOTES SEE DWG. ES-1

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: M.STONEMETZ
DRAFTED BY: M.STONEMETZ
CHECKED BY: H.RESSEL

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Poepli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

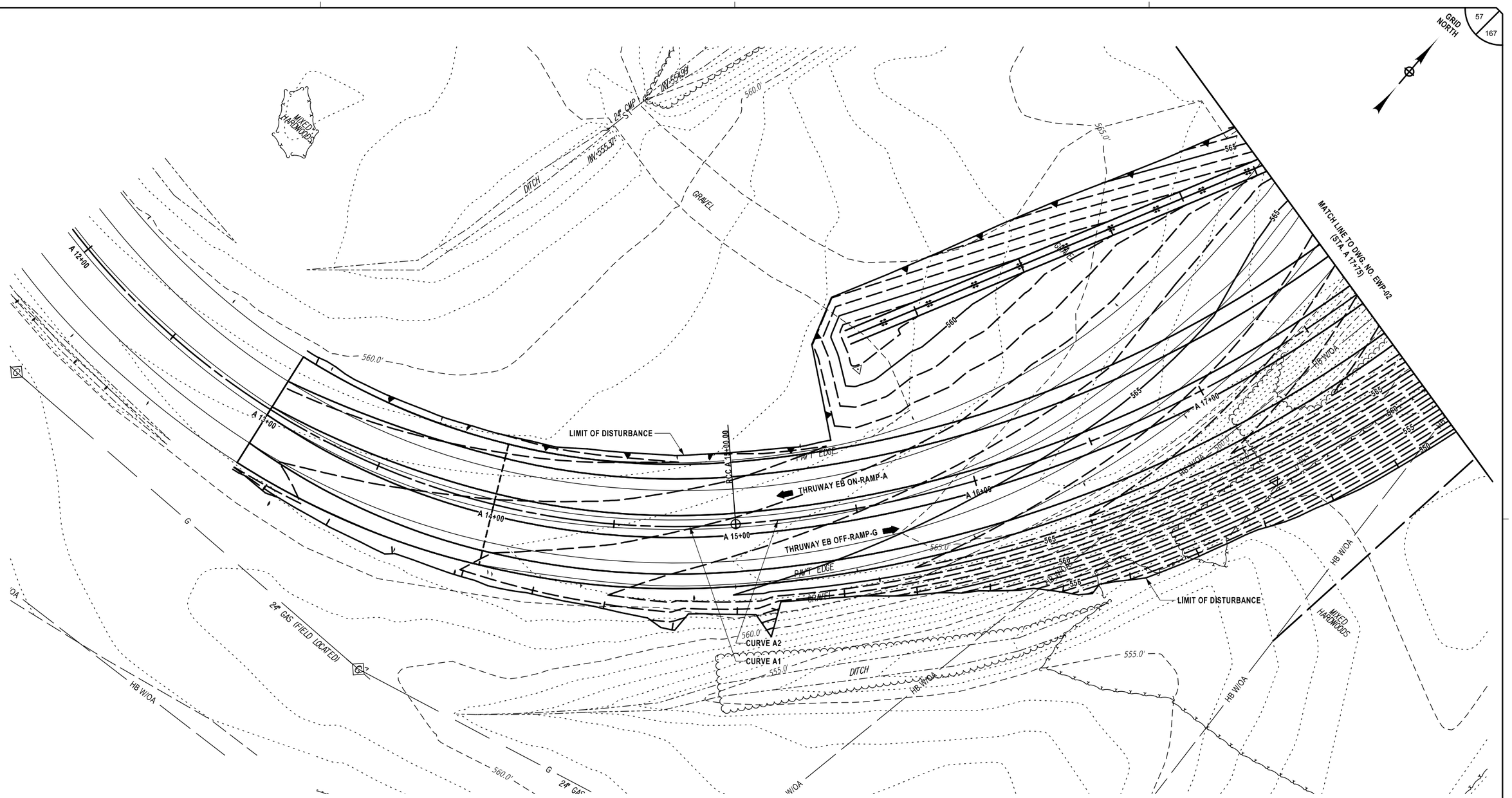
TITLE OF DRAWING
EARTHWORK SUMMARY
(SHEET 2 OF 2)

CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
ES-2

DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: H.RESSEL



CURVE A1	
P.C. = A 10+00.00	
P.T. = A 15+00.00	
R = 312.00 LF	
L = 500.00 LF	
Δ = 90°49'12.0" L	

CURVE A2	
P.C. = A 15+00.00	
P.T. = A 19+17.64	
R = 500.00 LF	
L = 417.64 LF	
Δ = 47°51'28.8" L	

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

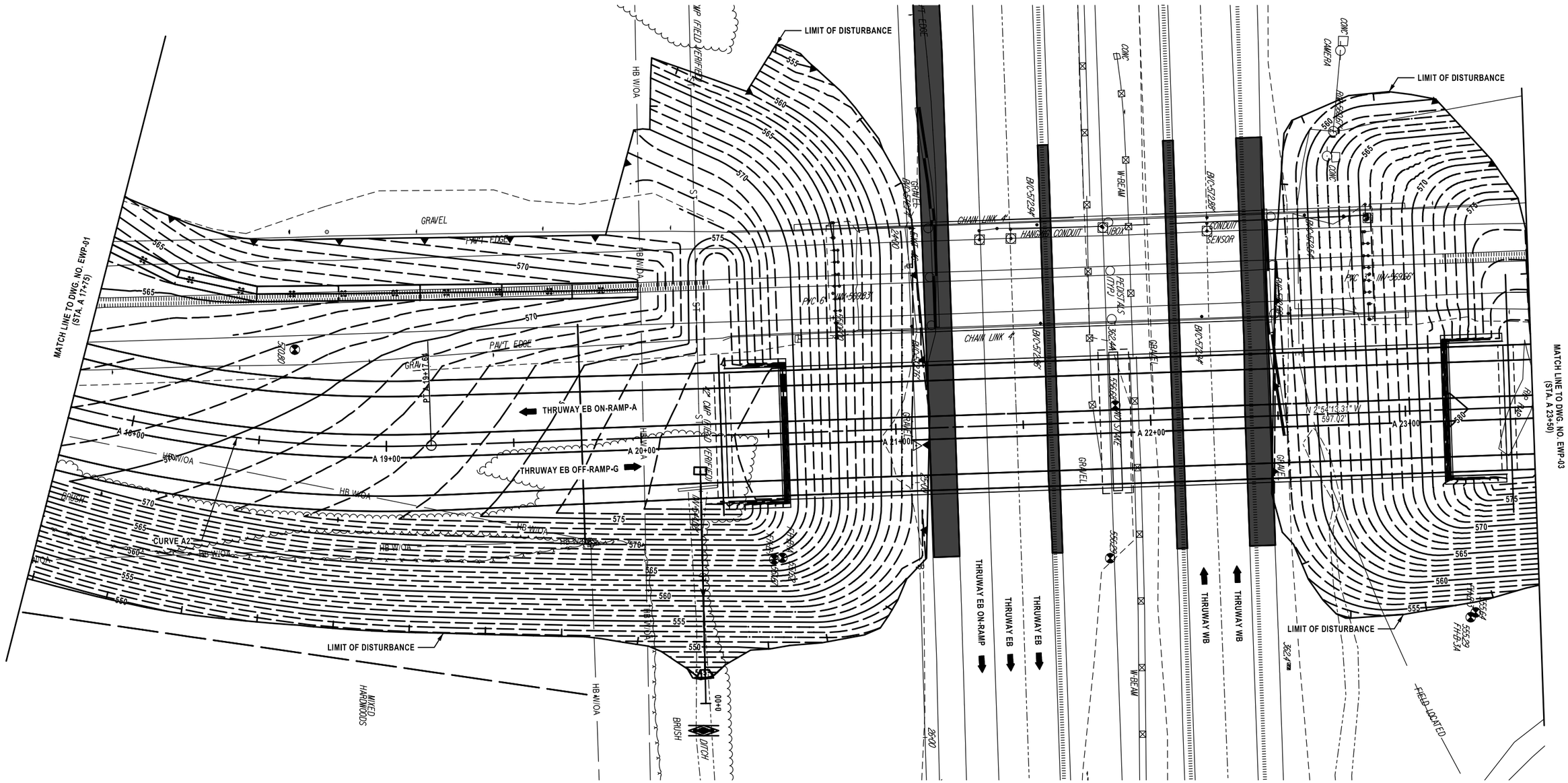
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	GENERAL EARTHWORK PLAN (1 OF 4)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	EWP-01

GRID NORTH



CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: GENERAL EARTHWORK PLAN (2 OF 4)

CONTRACT NUMBER: TAB 25-17B

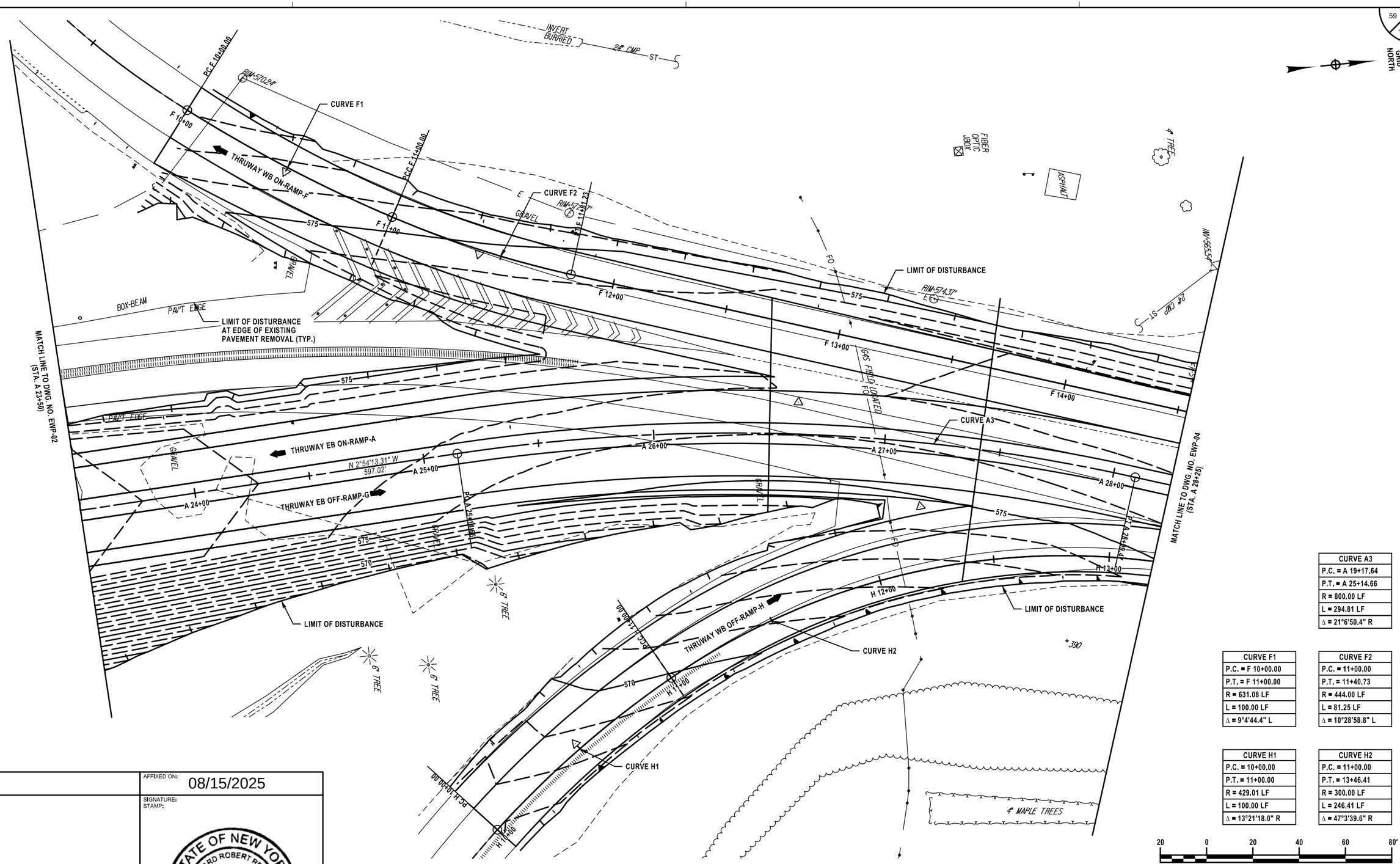
DATE: 8/15/2025

DRAWING NUMBER: EWP-02

DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

GRID NORTH

DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL



CURVE A3
P.C. = A 19+17.64
P.T. = A 25+14.66
R = 800.00 LF
L = 294.81 LF
Δ = 21°6'50.4" R

CURVE F1
P.C. = F 10+00.00
P.T. = F 11+00.00
R = 631.08 LF
L = 100.00 LF
Δ = 9°4'44.4" L

CURVE F2
P.C. = 11+00.00
P.T. = 11+40.73
R = 444.00 LF
L = 81.25 LF
Δ = 10°28'58.8" L

CURVE H1
P.C. = 10+00.00
P.T. = 11+00.00
R = 429.01 LF
L = 100.00 LF
Δ = 13°21'18.0" R

CURVE H2
P.C. = 11+00.00
P.T. = 13+46.41
R = 300.00 LF
L = 246.41 LF
Δ = 47°3'39.6" R

20 0 20 40 60 80'
1" = 40'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
GENERAL
EARTHWORK PLAN
(3 OF 4)

CONTRACT NUMBER: TAB 25-17B

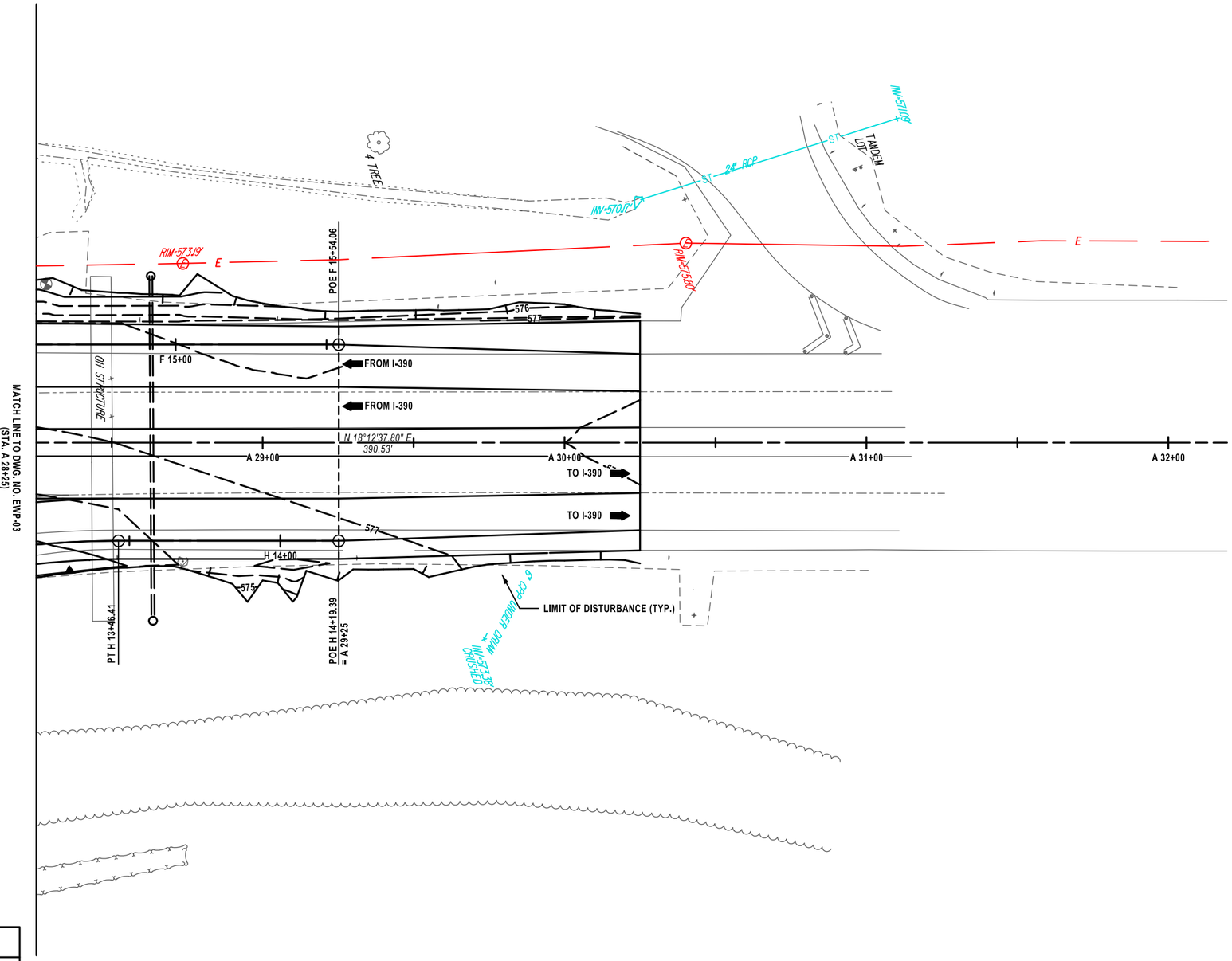
DATE: 8/15/2025

DRAWING NUMBER: EWP-03

DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGNED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

60
167

GRID NORTH



20 0 20 40 60 80'
1" = 40'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

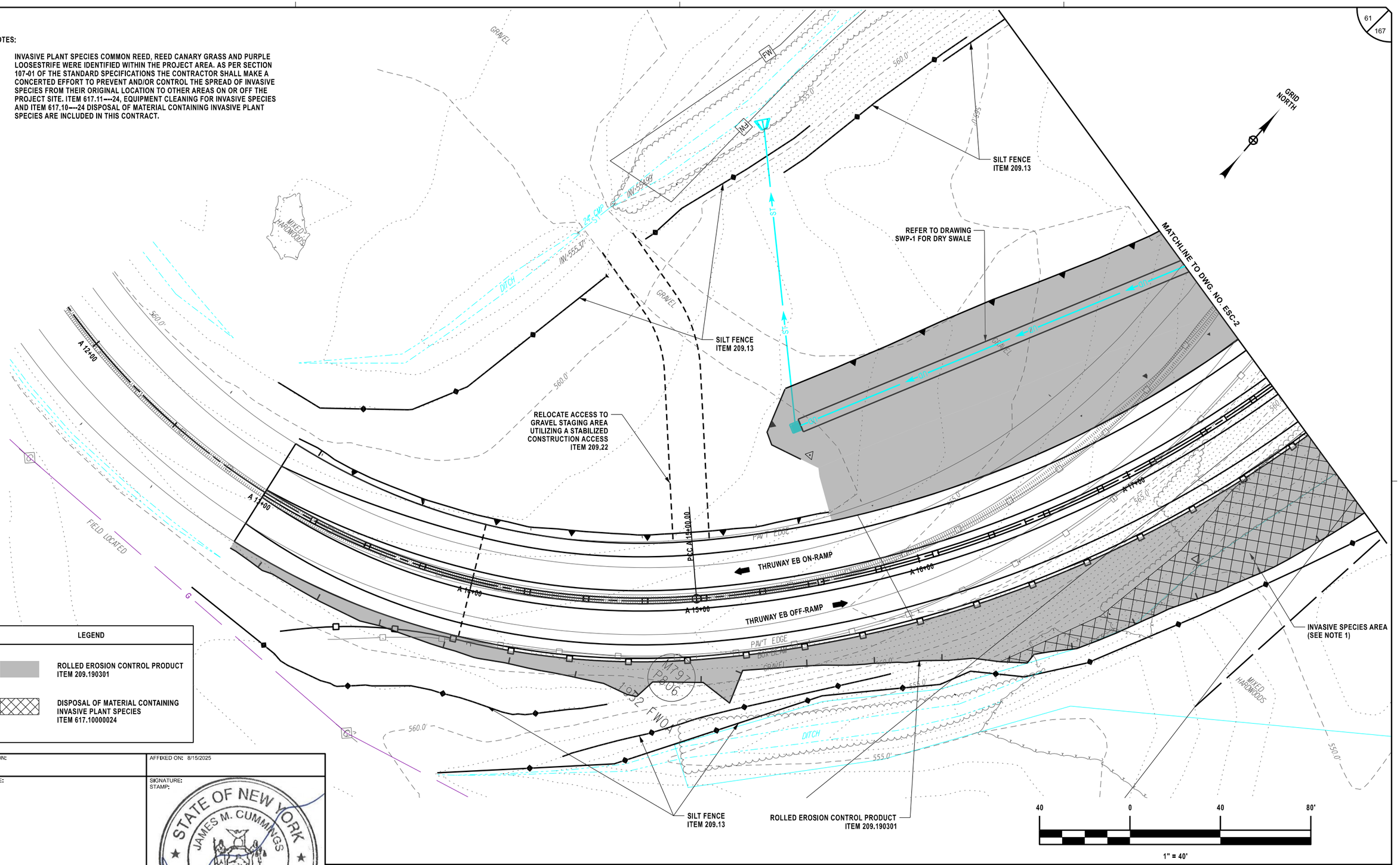
NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	GENERAL EARTHWORK PLAN (4 OF 4)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	EWP-04

NOTES:

1. INVASIVE PLANT SPECIES COMMON REED, REED CANARY GRASS AND PURPLE LOOSESTRIFE WERE IDENTIFIED WITHIN THE PROJECT AREA. AS PER SECTION 107-01 OF THE STANDARD SPECIFICATIONS THE CONTRACTOR SHALL MAKE A CONCERTED EFFORT TO PREVENT AND/OR CONTROL THE SPREAD OF INVASIVE SPECIES FROM THEIR ORIGINAL LOCATION TO OTHER AREAS ON OR OFF THE PROJECT SITE. ITEM 617.11----24, EQUIPMENT CLEANING FOR INVASIVE SPECIES AND ITEM 617.10----24 DISPOSAL OF MATERIAL CONTAINING INVASIVE PLANT SPECIES ARE INCLUDED IN THIS CONTRACT.



LEGEND

- ROLLED EROSION CONTROL PRODUCT ITEM 209.190301
- DISPOSAL OF MATERIAL CONTAINING INVASIVE PLANT SPECIES ITEM 617.10000024

DESIGNED BY: JMC
DRAFTED BY: AA
CHECKED BY: JMC
CHECKED BY: JMC
DESIGN SUPERVISOR: JMC

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
EROSION AND SEDIMENT CONTROL PLANS

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: ESC-1

DRAFTED BY: AA
CHECKED BY: JMC
DESIGNED BY: JMC
CHECKED BY: JMC
DESIGN SUPERVISOR: JMC

GRID NORTH

NOTES:

1. PRIOR TO ADDING PIPE EXTENSION AND SLIPLINING PIPE WITH CURED-IN-PLACE PIPE APPLICATION INSTALL COFFERDAM, PUMP AND SETTLING TANK AND START BYPASS PUMPING.
2. PUMPING FROM UPSTREAM OF COFFERDAM SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 553.020001. PUMPING CAPACITY SHALL BE ADEQUATE TO PASS THE 100 YEAR STORM IF NEEDED.
3. ALL PUMPED DISCHARGE SHALL PASS THROUGH A PORTABLE SEDIMENT TANK BEFORE BEING DISCHARGED TO THE GROUND OR STREAM. THE ENGINEER MAY DEEM THAT ADDITIONAL EROSION CONTROL MEASURES ARE NEEDED AT THE DISCHARGE LOCATION TO PREVENT EROSION FROM OCCURING. IF EROSION CONTROL MEASURES ARE NEEDED AT THE DISCHARGE LOCATION THEY SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 209.31000010.
4. ACTIVITIES WITHIN WATERS OF THE U.S. SHALL COMPLY WITH USACE NATIONWIDE PERMIT #3 (MAINTENANCE).
5. INVASIVE PLANT SPECIES COMMON REED, REED CANARY GRASS AND PURPLE LOOSESTRIFE WERE IDENTIFIED WITHIN THE PROJECT AREA. AS PER SECTION 107-01 OF THE STANDARD SPECIFICATIONS THE CONTRACTOR SHALL MAKE A CONCERTED EFFORT TO PREVENT AND/OR CONTROL THE SPREAD OF INVASIVE SPECIES FROM THEIR ORIGINAL LOCATION TO OTHER AREAS ON OR OFF THE PROJECT SITE. ITEM 617.11--24, EQUIPMENT CLEANING FOR INVASIVE SPECIES AND ITEM 617.10---24 DISPOSAL OF MATERIAL CONTAINING INVASIVE PLANT SPECIES ARE INCLUDED IN THIS CONTRACT.

TYPE 2 COFFERDAM TO BE UTILIZED DURING CULVERT WORK. ITEM 553.020001 (SEE NOTE 1 AND 2)

SILT FENCE ITEM 209.13

REFER TO DRAWING SWP-1 FOR DRY SWALE

MATCHLINE TO DWG. NO. ESC-1

MATCHLINE TO DWG. NO. ESC-3

THRUWAY EB ON-RAMP

THRUWAY EB OFF-RAMP

THRUWAY EB ON-RAMP

THRUWAY EB

THRUWAY EB

THRUWAY WB

THRUWAY WB

INVASIVE SPECIES AREA (SEE NOTE 5)

ROLLED EROSION CONTROL PRODUCT ITEM 209.190301

STONE CHECK DAM ITEM 209.110104

PORTABLE SEDIMENT TANK ITEM 209.31000010

CHECK DAM, PREFABRICATED-TEMPORARY ITEM 209.1105

LEGEND

- ROLLED EROSION CONTROL PRODUCT ITEM 209.190301
- DISPOSAL OF MATERIAL CONTAINING INVASIVE PLANT SPECIES ITEM 617.10000024

40 0 40 80'

1" = 40'

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK JAMES M. CUMMINGS 080958 LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220313464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
EROSION AND SEDIMENT CONTROL PLANS

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: ESC-2

DRAFTED BY: AA
CHECKED BY: JMC
DESIGNED BY: JMC
DESIGN SUPERVISOR: JMC

GRID NORTH

SILT FENCE ITEM 209.13
PCC F 10+00.00
RIM-570.24'
F 11+00
THRUWAY WB ON-RAMP
PCC F 11+00.00
RIM-575.34'
F 11+23
PE PIPE
25 MPH
F 12+00
DECOMPACT EXISTING IMPERVIOUS AREA
F 13+00
F 14+00
RIM-574.37'
FIBER OPTIC JBOX
NYSTA HENRIETTA MAINTENCE
ASPHALT
TREE
SILT FENCE ITEM 209,13
INVERT BURRIED
PE PIPE
ST
570.0'
565.0'
575.0'
APRON
BOX BEAM
PAVT EDGE
GRAVEL
96 WEST
96 EAST
FO
GPS FIELD LOCATED FO
MATCHLINE TO DWG. NO. ESC-2
THRUWAY EB ON-RAMP
A 25+00
A 24+00
A 20+00
A 27+00
A 28+00
PC A 24+14.66
PC A 28+09.47
THRUWAY EB OFF-RAMP
MATCHLINE TO DWG. NO. ESC-4
DECOMPACT EXISTING IMPERVIOUS AREA
PCC H 11+00.00
THRUWAY WB OFF-RAMP
H 11+00
H 12+00
H 13+00
PC H 10+00.00
H 10+00
6" TREE
FW
MJ
MAPLE TREES
ROLLED EROSION CONTROL PRODUCT ITEM 209,190301
SILT FENCE ITEM 209.13

LEGEND

ROLLED EROSION CONTROL PRODUCT ITEM 209,190301

DECOMPACT EXISTING IMPERVIOUS AREA, REFER TO STORMWATER POLLUTION PREVENTION AND EROSION CONTROL NOTE #15 ON ECD-1

40 0 40 80'

1" = 40'

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220131664-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

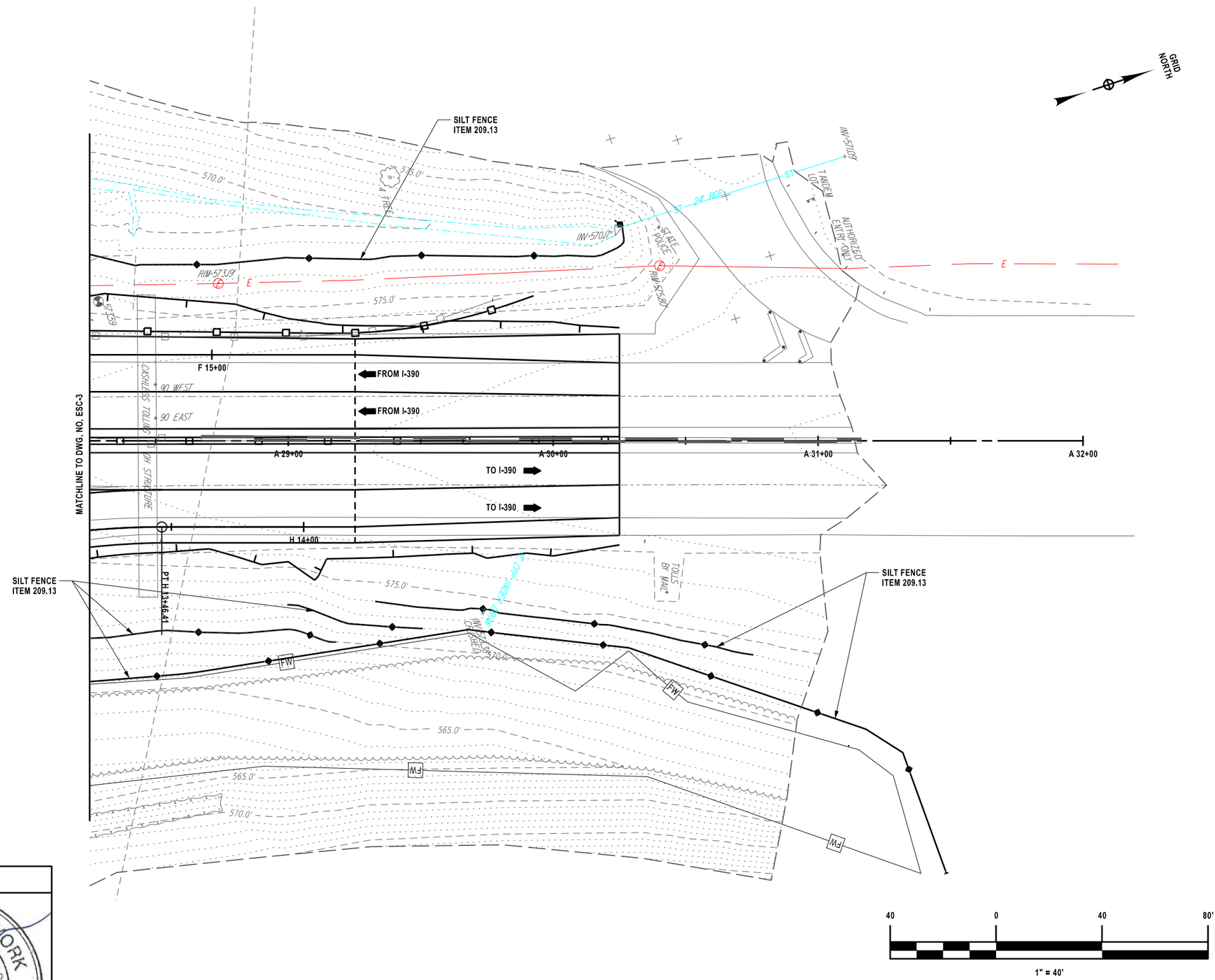
TITLE OF DRAWING
EROSION AND SEDIMENT CONTROL PLANS

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: ESC-3

DESIGN SUPERVISOR: JMC
DESIGNED BY: JMC
DRAFTED BY: AA
CHECKED BY: JMC



ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

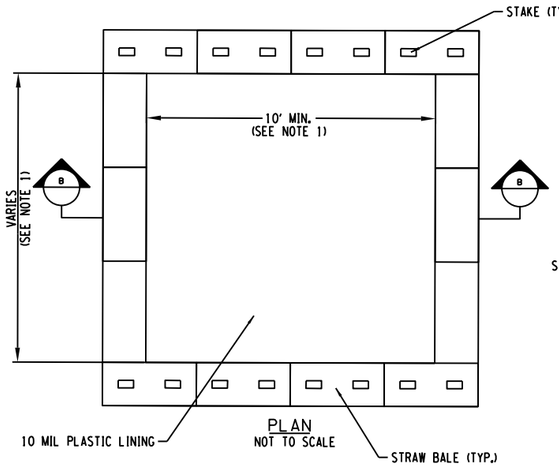
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
EROSION AND SEDIMENT CONTROL PLANS

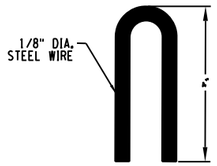
CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

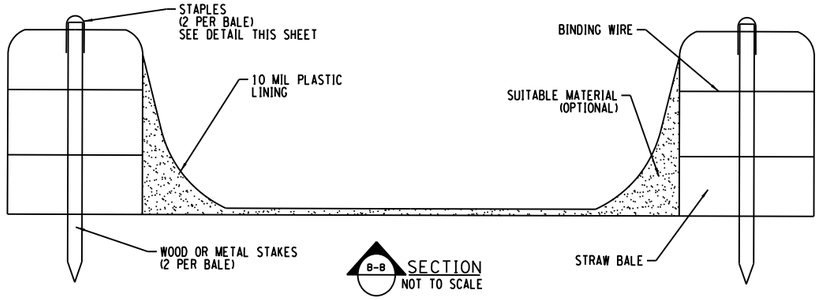
DRAWING NUMBER:
ESC-4



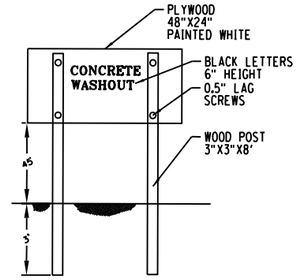
PLAN
NOT TO SCALE



STAPLE DETAIL
NOT TO SCALE



SECTION
NOT TO SCALE



CONCRETE WASHOUT
SIGN DETAIL
(OR EQUIVALENT)
NOT TO SCALE

STORMWATER POLLUTION PREVENTION AND EROSION CONTROL NOTES:

1. INSTALL SILT FENCING AS SHOWN ON THE PLANS AND AROUND THE PERIMETER OF ANY STOCKPILE AREAS AND ADD ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO PERFORMING ANY EARTH DISTURBANCE.
2. WHERE WORK IS SUSPENDED ON THE PROJECT, ALL AREAS OF SOIL DISTURBANCE SHALL BE STABILIZED PER ITEM 209.1003, TEMPORARY SEED AND MULCH, PRIOR TO SHUT DOWN.
3. ALL STOCKPILES SHALL BE ENCIRCLED WITH SILT FENCE AND COVERED WITH A TARP OR SEEDED AND MULCHED WITHIN 24HRS OF CREATION. COST OF WORK SHALL BE INCLUDED IN VARIOUS ITEMS IN THE CONTRACT.
4. CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS OFF ALL PAVED SURFACES AT THE END OF EACH DAY OR AS DIRECTED BY ENGINEER. COST OF CLEANING SHALL BE INCLUDED IN VARIOUS ITEMS IN THE CONTRACT.
5. CONTRACTOR SHALL NOT WASH CONCRETE OR SLURRY TRUCKS, TOOLS, OR EQUIPMENT OUT ONTO BARE GROUND OR DIRECTLY INTO STORM OR SANITARY SEWER SYSTEMS (INCLUDING SWALES, DITCHES AND WETLANDS). EXCESS CONCRETE, SLURRY AND WASH WATER SHALL BE COLLECTED IN A WASH BASIN AND DISPOSED OF PROPERLY.
6. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER THEIR WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK AND SCHEDULE OF OPERATIONS AS REQUIRED BY SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.
7. INSPECTION, PERIODIC CLEANING AND MAINTENANCE OF TEMPORARY SOIL EROSION AND POLLUTION CONTROL DEVICES SHALL BE PERFORMED ON A SCHEDULE BASIS IN ACCORDANCE WITH SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS AND THE PROJECT'S SWPPP. THE COST OF INSTALLING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE PAID FOR UNDER THE ITEMS SHOWN.
8. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF ANY STREAM OR WATERWAY BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE OR SLURRY LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES.
9. THE PROJECT ENGINEER IS RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR AND/OR WORKERS EXECUTING THE ACTIVITIES AUTHORIZED BY THE GENERAL PERMIT (0-25-001) HAVE KNOWLEDGE OF THE TERMS AND CONDITIONS OF THE SWPPP AND THAT A COPY OF THE PERMIT DOCUMENT IS AT THE PROJECT SITE.
10. IF DEWATERING IS REQUIRED THE COST SHALL BE INCLUDED IN PRICE BID FOR THE ITEM REQUIRING THE DEWATERING. THE CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION IF THEY ELECT TO USE WELL POINTS. ALL WATER FROM DEWATERING OPERATIONS OR EXCAVATION ACTIVITIES SHALL PASS THROUGH A SETTLING TANK, ITEM 209.31000010, OR A GEOTEXTILE FABRIC SEDIMENT COLLECTION BAG ITEM 209.11000001 PRIOR TO BEING DISCHARGED TO A CANAL, CREEK,STREAM, OR CLOSED DRAINAGE SYSTEM DITCH.
11. ALL CONTROLS SHALL BE PLACED PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY ADDITIONAL EROSION CONTROL MEASURES THAT MAY BE REQUIRED OR AS ORDERED BY ENGINEER.
13. CONTRACTOR STAGING AREAS SHALL BE EXISTING AREAS OF NON DISTURBABLE COVER. (I.E. ASPHALT MILLING, ASPHALT OR CONCRETE PAVEMENT). IF THE CONTRACTOR CREATES A STAGING AREA ON DISTURBABLE COVER (I.E. GRASS) THEN THE ENTIRE AREA SHALL BE ENCLOSED WITH SILT FENCE.
14. CONTRACTORS SHALL ESTABLISH A STABILIZED CONSTRUCTION ENTRANCE INTO AND OUT OF EACH WORK AREA AND EACH STAGING AREA CONSTRUCTED ON DISTURBABLE COVER.
15. CONTRACTOR SHALL DECOMPACT ALL AREAS OF PAVEMENT OR IMPERVIOUS COVER REMOVAL THAT WILL BE MADE PERVIOUS COVER. DECOMPACTION SHALL BE ACCOMPLISHED BY DEEP RIPPING OR TILLING TO A DEPTH OF 1.5 FEET BELOW THE BOTTOM OF THE EXISTING SUBBASE LAYER IN ORDER TO REESTABLISH THE PERMIABILITY OF THE SOIL. THE COST OF DECOMPACTION SHALL BE INCLUDED IN THE COST OF PAVEMENT REMOVAL.
16. MAXIMUM DISTURBANCE AREA IS 5.54 ACRES. CONTRACTOR IS RESPONSIBLE FOR CHANGES TO THE SWPPP IF ACREAGE IS EXCEEDED, AT NO COST TO THE OWNER.
17. CONTRACTOR SHALL ABIDE BY THE PROJECTS STORMWATER POLLUTION PREVENTION PLAN. ALL CONTRACTORS INVOLVED IN SOIL DISTURBANCE SHALL SIGN THE CONTRACTOR CERTIFICATION FORM.

CONCRETE WASHOUT NOTES:

1. ACTUAL LAYOUT AND LOCATION TO BE DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 5 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. LOCATE WASHOUT AREA AT LEAST 50-FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID OR SOLID WASTE.
4. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4-INCHES.
5. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHALL BE CONSTRUCTED AS SHOWN ON THE DETAILS WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10-FEET, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
6. STRAW BALES, WOOD STAKES, AND SANDBAG MATERIALS SHALL CONFORM TO THE PROVISIONS IN THE EROSION AND SEDIMENT CONTROL SPECIFICATION.
7. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
8. HOLES, DEPRESSIONS, OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.
9. WASHOUT FACILITIES SHALL BE CLEANED, OR NEW FACILITIES SHALL BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
10. THE COST FOR THE CONCRETE WASHOUTS SHALL BE INCLUDED IN THE PRICE BID FOR ALL CONCRETE ITEMS (ALL CONCRETE ITEMS).

CONCRETE WASHOUT DETAIL

NOT TO SCALE

DESIGNED BY: JMC
DRAFTED BY: AA
CHECKED BY: JMC
DESIGN SUPERVISOR: JMC
CHECKED BY: JMC

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

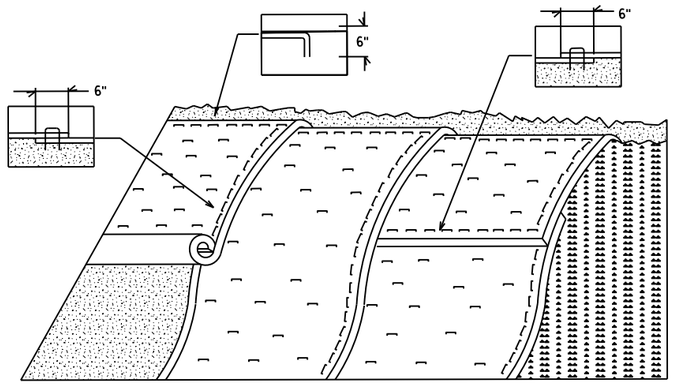
HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC(2)03131464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
EROSION & SEDIMENT
CONTROL DETAILS

CONTRACT NUMBER: TAB 25-17B
DATE: 8/15/2025
DRAWING NUMBER: ECD-1



APPLICATION NOTES:

A. EROSION MATTING ON SLOPES IS FOR REDUCING EROSION AND AIDING THE ESTABLISHMENT OF VEGETATION

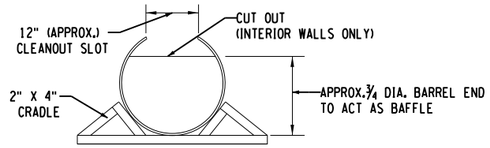
B. EROSION CONTROL MATTING SHALL BE USED FOR THE FOLLOWING:

- SLOPES GREATER THAN 3H:1V
- AREAS WHERE SEED AND MULCH WILL NOT STAY IN PLACE
- WHERE SEEDING IS OUTSIDE THE GROWING SEASON.
- WHERE INDICATED ON THE PLANS OR DETAILS.
- AS ORDERED BY ENGINEER.

GENERAL NOTES:

1. GRADE AND SMOOTH THE SLOPE TO PROVIDE GOOD MATTING-TO-SOIL SURFACE CONTACT.
2. APPLY FERTILIZER (AS REQUIRED), LIME, AND SEED PRIOR TO PLACING MATTING.
3. ANCHOR MATTING AS SHOWN, UTILIZING ANCHOR STAPLES. STAPLE PLACEMENT SHALL BE DETERMINED BY THE MANUFACTURER'S INTALLATION INSTRUCTIONS.
4. UNROLL EROSION MATTING VERTICALLY DOWN SLOPE AND IN THE DIRECTION OF WATER FLOW.
5. OVERLAP UPPER MATTING OVER LOWER MATTING AS SHOWN.
6. OVERLAP ADJACENT MATTING AS SHOWN.
7. CUT EXCESS MATTING AT END OF SLOPE AND ANCHOR THE END.
8. EROSION MATTING SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS
9. EROSION MATTING SHALL BE REPAIRED AND RESTAPLED AS NECESSARY TO ENSURE PROPER FUNCTION.

ROLLED EROSION CONTROLPRODUCT - CLASS II, TYPE C, INTERMEDIATE
ITEM 209.190301
NOT TO SCALE



SECTION A-A

NOTES

1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.
2. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANK MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET.
3. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF PROPERLY OFFSITE BY THE CONTRACTOR, OR AS APPROVED BY THE ENGINEER.
4. PROVIDE ONE TANK FOR EACH 3 INCH PUMP DISCHARGE. PUMP DISCHARGE LINES SHALL NOT EXCEED 3 INCHES.
5. THE FOLLOWING FORMULA SHALL BE USED IN DETERMINING THE STORAGE VOLUME OF THE SEDIMENT TANK• PUMP DISCHARGE (g.p.m) X 16 = CUBIC FEET STORAGE.

PORTABLE SEDIMENT TANK
ITEM 209.31000010
NOT TO SCALE

DESIGN SUPERVISOR: JMC
DESIGNED BY: JMC
DRAFTED BY: AA
CHECKED BY: JMC

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA. 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
EROSION & SEDIMENT CONTROL DETAILS

CONTRACT NUMBER: TAB 25-17B
DATE: 8/15/2025
DRAWING NUMBER: ECD-2

GRID NORTH

DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

MATCH LINE TO DWG. NO. GNP-02 (STA. A 17+75)

PROJECT BEGINS
BEGIN MILL AND OVERLAY
WITH SHOULDER RECONSTRUCTION
STA. A 13+00

APPX. 12'-4"
EX. SHOULDER

APPX. 12'-0"
EX. TRAVEL LANE

APPX. 4'-0"
EX. MEDIAN

APPX. 9'-6"
EX. SHOULDER

APPX. 9'-6"
EX. SHOULDER

APPX. 28'-1"
TOE OF SLOPE TO GAS

APPX. 7'-6"
END OF GUIDE RAIL TO GAS

9'-0" MEDIAN
CENTERED ON HCL

15'-0"
TRAVEL LANE

6'-0"
SHOULDER

15'-0"
TRAVEL LANE

END MILL AND OVERLAY
WITH SHOULDER RECONSTRUCTION
BEGIN FULL WIDTH RECONSTRUCTION
STA A 14+00

6'-0"
SHOULDER

LIMIT OF DISTURBANCE

LIMIT OF DISTURBANCE
AT EDGE OF EXISTING
PAVEMENT REMOVAL

REMOVE EXISTING
PAVEMENT AND RAIL

PROPOSED DRAINAGE
CHANNEL

BOX BEAM
MEDIAN BARRIER

LIMIT OF DISTURBANCE

SEE NOTE 3

THRUWAY EB ON-RAMP-A

THRUWAY EB OFF-RAMP-G

PAV'T EDGE

BOX BEAM

GRAVEL

DITCH

MIXED HARDWOODS

24" CMP
INV-554.99

INV-555.37

24" GAS (FIELD LOCATED)

CURVE A1

CURVE A2

P.C.C. A 15+00.00

A 12+00

A 13+00

A 14+00

A 15+00

A 16+00

A 17+00

HB W/OA

GRS FONDATIN INC.
(REPUTED OWNER)

M 1008
P1013
P.E.

NOTES:

1. REFER TO DWGS. GRP-01 TO GRP-06 FOR GUIDE RAIL REMOVAL AND INSTALLATION.
2. REFER TO DWGS. SPM-01 TO SPM-04 FOR SIGNS AND PAVEMENT MARKING INSTALLATION.
3. REFER TO DWG. MST-01 FOR ROW MARKER TABLE.

CURVE A1
P.C. = A 10+00.00
P.T. = A 15+00.00
R = 312.00 LF
L = 500.00 LF
Δ = 90°49'12.0" L

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

20 0 20 40 60 80'
1" = 40'

ALTERED ON:

SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
☐BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
GENERAL
HIGHWAY PLAN
(1 OF 4)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: GNP-01

GRID NORTH

MATCH LINE TO DWG. NO. GNP-01 (STA. A 17+75)

MATCH LINE TO DWG. NO. GNP-03 (STA. A 23+50)

AREA OF MAINLINE SHOULDER RECONSTRUCTION (TYP.) SEE TYP-04 FOR DETAILS

LIMIT OF DISTURBANCE

LIMIT OF DISTURBANCE AT EDGE OF EXISTING PAVEMENT REMOVAL

REMOVE EXISTING PAVEMENT, RAIL, AND STRUCTURES

CLEAN AND LINE ENTIRE PIPE (NEW AND EXISTING) WITH CURED IN PLACE PIPE (CIPP) 42 INCH DIA. ITEMS 602.3642 AND 621.01

PROPOSED DRAINAGE CHANNEL

6'-0" SHOULDER

9'-0" MEDIAN CENTERED ON HCL

15'-0" TRAVEL LANE

THRUWAY EB ON-RAMP-A

14'-0" TRAVEL LANE

THRUWAY EB OFF-RAMP-G

CONCRETE COLLAR ITEM 603.77

TRANSITION LANE WIDTH FROM STA. 19+25.00 TO STA. 20+25.00

CURVE A2

REINFORCED CONCRETE PIPE CLASS IV, 42 INCH DIA. INSTALL IN ACCORDANCE WITH STANDARD SHEET TA 603-01 ITEMS 203.07, 206.0201, AND 603.6110

APPROACH SLAB ENDS BRIDGE BEGINS STA. A 20+55.42

END FULL WIDTH RECONSTRUCTION APPROACH SLAB BEGINS STA. A 20+31.42

REMOVE 8' OF EXISTING CMF PIPE COST TO BE INCLUDED IN ITEM 206.0201

REMOVE EXISTING HEADWALL COST TO BE INCLUDED IN ITEM 206.0201

REINFORCED CONCRETE PIPE END SECTIONS 42 INCH DIA. AND CUTOFF WALL ITEMS 555.0021 AND 603.7310

APPROACH SLAB ENDS BEGIN FULL WIDTH RECONSTRUCTION STA. A 23+41.08

BRIDGE ENDS APPROACH SLAB BEGINS STA. A 23+17.08

LIMIT OF DISTURBANCE

LIMIT OF DISTURBANCE

FIELD LOCATED

SEE NOTE 3

M 1008 P1013 P.E. GRS FONDATIN INC. (REPUTED OWNER)

NOTES:

1. REFER TO DWGS. GRP-01 TO GRP-06 FOR GUIDE RAIL REMOVAL AND INSTALLATION.
2. REFER TO DWGS. SPM-01 TO SPM-04 FOR SIGNS AND PAVEMENT MARKING INSTALLATION.
3. REFER TO DWG. MST-01 FOR ROW MARKER TABLE

CURVE A2
P.C. = A 15+00.00
P.T. = A 19+17.64
R = 500.00 LF
L = 417.64 LF
Δ = 47°51'28.8" L

20 0 20 40 60 80'

1" = 40'

DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44□

TITLE OF DRAWING
GENERAL
HIGHWAY PLAN
(2 OF 4)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: GNP-02

GRID NORTH

APPX. 11'-6" EX. SHOULDER
APPX. 13'-11" EX. TRAVEL LANE
APPX. 13'-2" EX. SHOULDER
BEGIN MILL AND OVERLAY WITH SHOULDER RECONSTRUCTION STA. F 10+00
PCC F 10+00.00
F 10+00
CURVE F1
10'-0" SHOULDER
14'-0" TRAVEL LANE
THRUWAY WB ON-RAMP-F
END MILL AND OVERLAY WITH SHOULDER RECONSTRUCTION BEGIN FULL WIDTH RECONSTRUCTION STA. F 11+00
PCC F 11+00.00
F 11+00
CURVE F2
PCC F 11+81.23
TRANSITION SHOULDER WIDTH FROM STA. F 11+81.23 TO STA. A 29+25.00
GRAVEL
BOX BEAM
PAVT EDGE
LIMIT OF DISTURBANCE AT EDGE OF EXISTING PAVEMENT REMOVAL (TYP.)
F 12+00
F 13+00
F 14+00
WATER CHAMBER AS PER RECORD PLANS
LIMIT OF DISTURBANCE
FIBER OPTIC JBOX
ASPHALT
4" TREE
INVERT BURRIED
24" CMP ST
GAS FIELD LOCATED
CURVE A3
MATCH LINE TO DWG. NO. GNP-02 (STA. A 23+50)
PAVT EDGE
6'-0" SHOULDER
9'-0" MEDIAN CENTERED ON HCL
THRUWAY EB ON-RAMP-A
N 2°54'13.5" W
597.02
A 24+00
A 25+00
A 26+00
A 27+00
A 28+00
THRUWAY EB OFF-RAMP-G
PCC A 25+14.66
14'-0" TRAVEL LANE
6'-0" SHOULDER
LIMIT OF DISTURBANCE
6" TREE
MATCH LINE TO DWG. NO. GNP-04 (STA. A 28+25)
10'-0" SHOULDER
14'-0" TRAVEL LANE
10'-0" SHOULDER
PCC H 11+00.00
THRUWAY WB OFF-RAMP-H
H 11+00
H 12+00
H 13+00
CURVE H2
LIMIT OF DISTURBANCE
TRANSITION SHOULDER WIDTH FROM STA. H 11+00.00 TO STA. H 13+46.41
END MILL AND OVERLAY WITH SHOULDER RECONSTRUCTION BEGIN FULL WIDTH RECONSTRUCTION STA. H 11+00
CURVE H1
4" MAPLE TREES
APPX. 10'-11" EX. SHOULDER
APPX. 13'-9" EX. TRAVEL LANE
APPX. 10'-9" EX. TRAVEL LANE
BEGIN MILL AND OVERLAY WITH SHOULDER RECONSTRUCTION STA. H 10+00

CURVE A3
P.C. = A 19+17.64
P.T. = A 25+14.66
R = 800.00 LF
L = 294.81 LF
Δ = 21°6'50.4" R

CURVE F1
P.C. = F 10+00.00
P.T. = F 11+00.00
R = 631.08 LF
L = 100.00 LF
Δ = 9°4'44.4" L

CURVE F2
P.C. = 11+00.00
P.T. = 11+40.73
R = 444.00 LF
L = 81.25 LF
Δ = 10°28'58.8" L

CURVE H1
P.C. = 10+00.00
P.T. = 11+00.00
R = 429.01 LF
L = 100.00 LF
Δ = 13°21'18.0" R

CURVE H2
P.C. = 11+00.00
P.T. = 13+46.41
R = 300.00 LF
L = 246.41 LF
Δ = 47°3'39.6" R

20 0 20 40 60 80'
1" = 40'

NOTES:

1. REFER TO DWGS. GRP-01 TO GRP-06 FOR GUIDE RAIL REMOVAL AND INSTALLATION.
2. REFER TO DWGS. SPM-01 TO SPM-04 FOR SIGNS AND PAVEMENT MARKING INSTALLATION.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

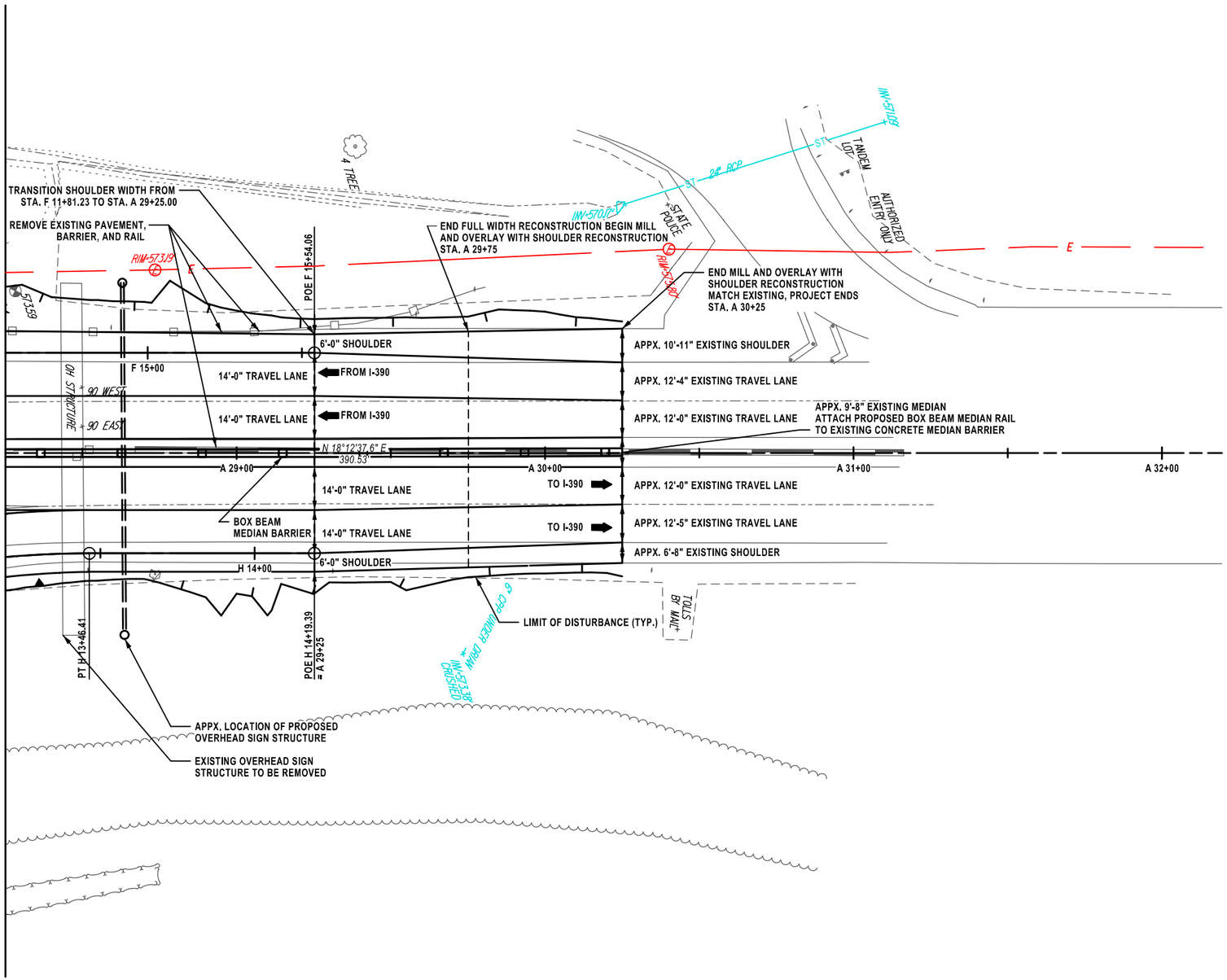
PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44□
TITLE OF DRAWING: GENERAL HIGHWAY PLAN (3 OF 4)

CONTRACT NUMBER: TAB 25-17B
DATE: 8/15/2025
DRAWING NUMBER: GNP-03

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSSEL
CHECKED BY: H.RESSEL

GRID NORTH



20 0 20 40 60 80'
1" = 40'

NOTES:

1. REFER TO DWGS. GRP-01 TO GRP-06 FOR GUIDE RAIL REMOVAL AND INSTALLATION.
2. REFER TO DWGS. SPM-01 TO SPM-04 FOR SIGNS AND PAVEMENT MARKING INSTALLATION.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

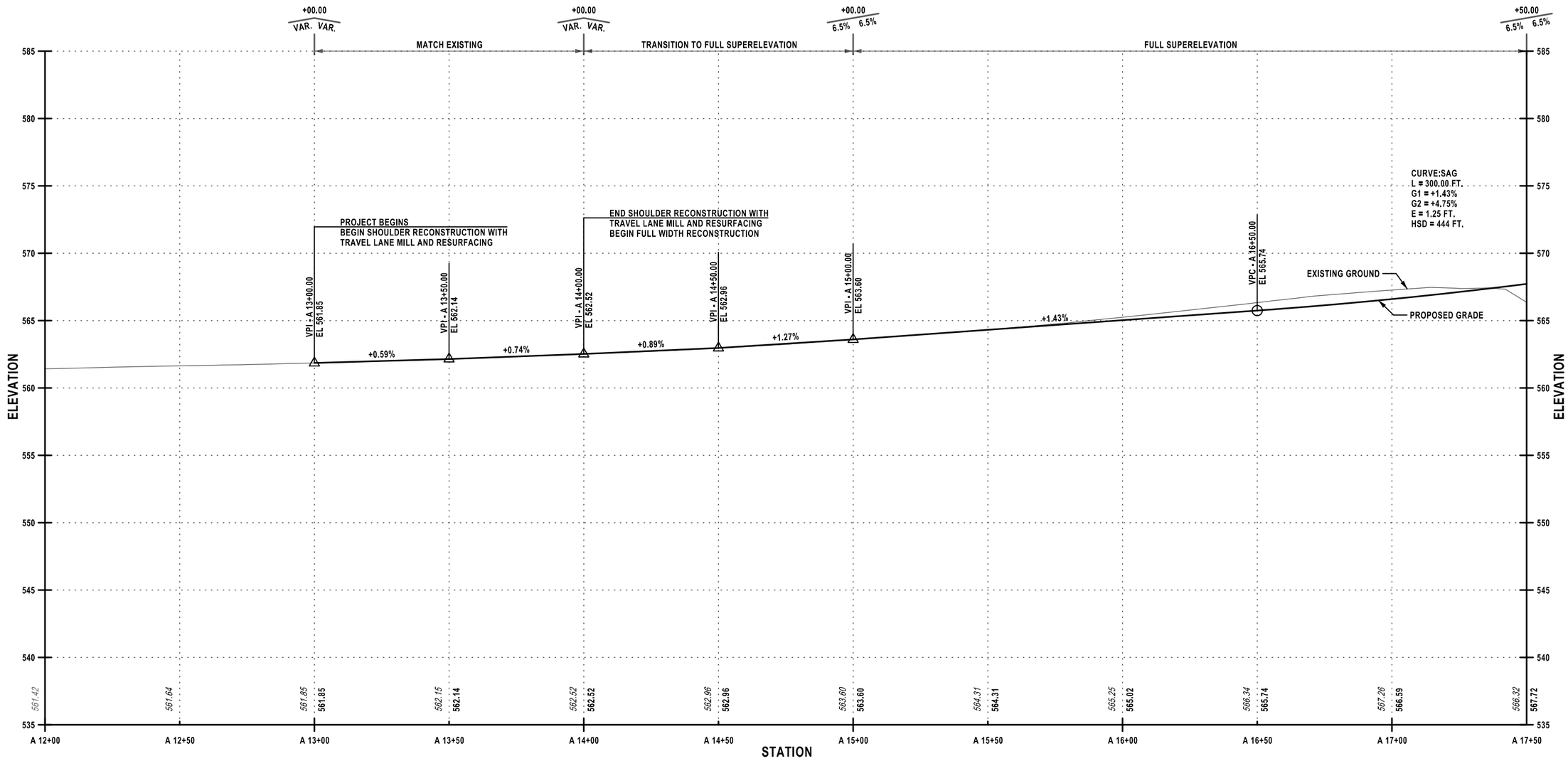
NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION ☐MP 362.44
TITLE OF DRAWING	GENERAL HIGHWAY PLAN (4 OF 4)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	GNP-04

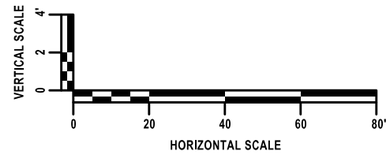
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGNED BY: E. BAXTER
DESIGN SUPERVISOR: H.RESSEL

DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL



RAMP A AND BRIDGE PROFILE

SCALE: 1" H = 40'=0", 1" V = 8'-0"



ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

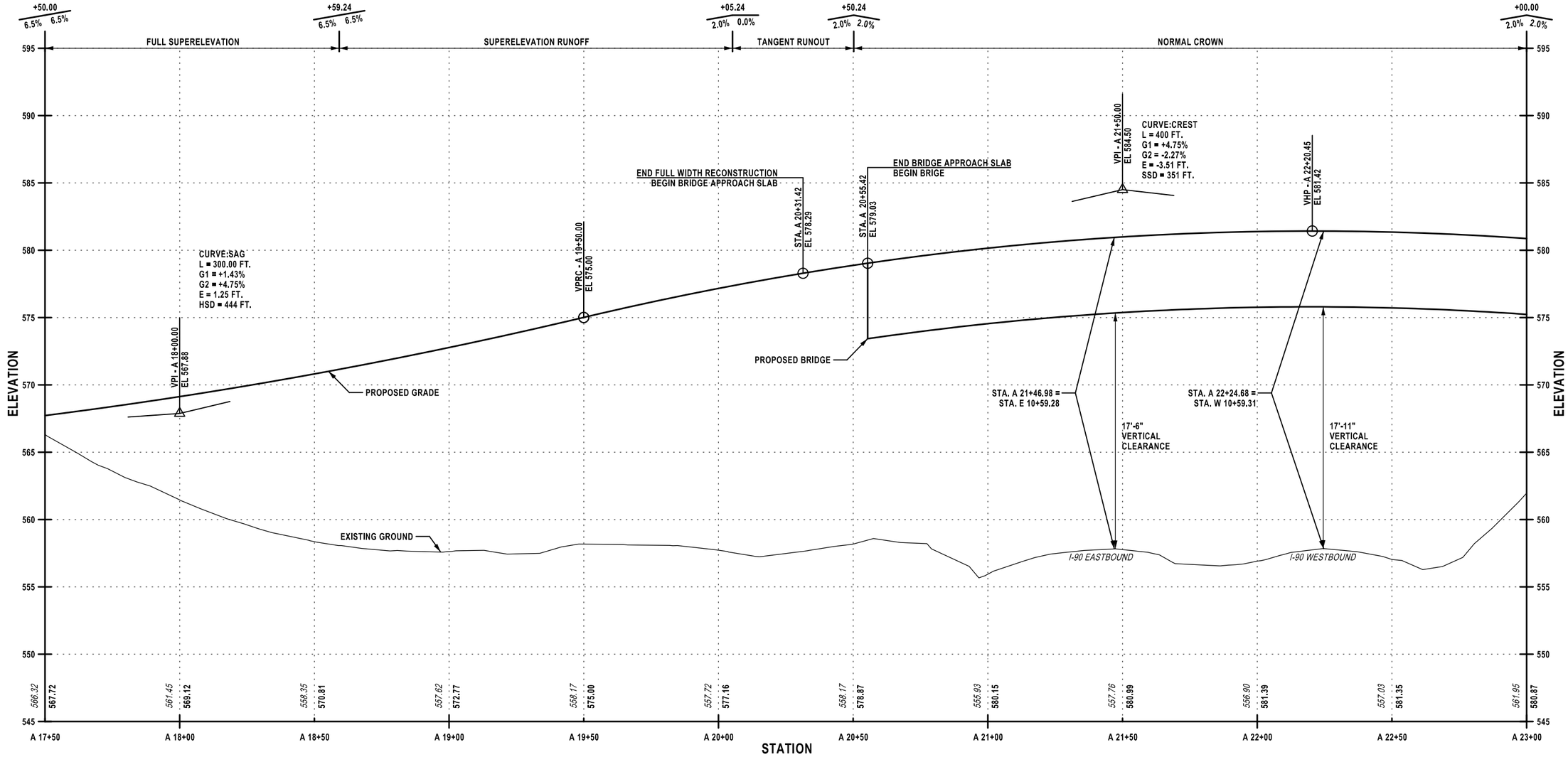
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING HIGHWAY GENERAL PROFILE (1 OF 6)	DRAWING NUMBER: PRO-01



DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGNED BY: E. BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

RAMP A AND BRIDGE PROFILE

SCALE: 1" H = 40'=0", 1" V = 8'-0"

VERTICAL SCALE 0 2 4'
HORIZONTAL SCALE 0 20 40 60 80'

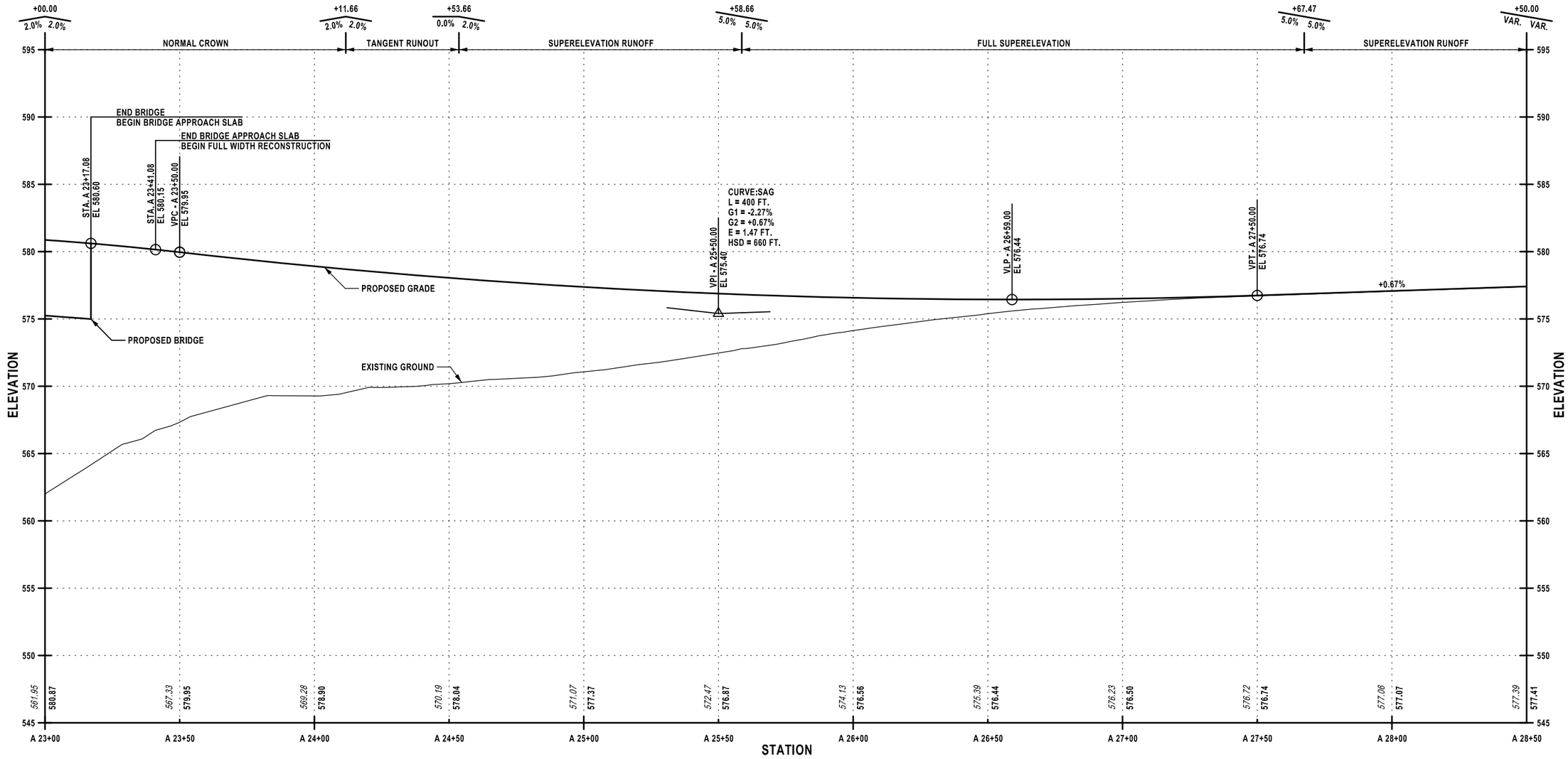
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

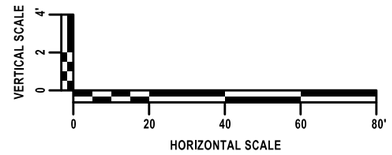
NEW YORK STATE Thruway Authority
PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	HIGHWAY GENERAL PROFILE (2 OF 6)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	PRO-02



RAMP A AND BRIDGE PROFILE

SCALE: 1" H = 40'=0", 1" V = 8'-0"



DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

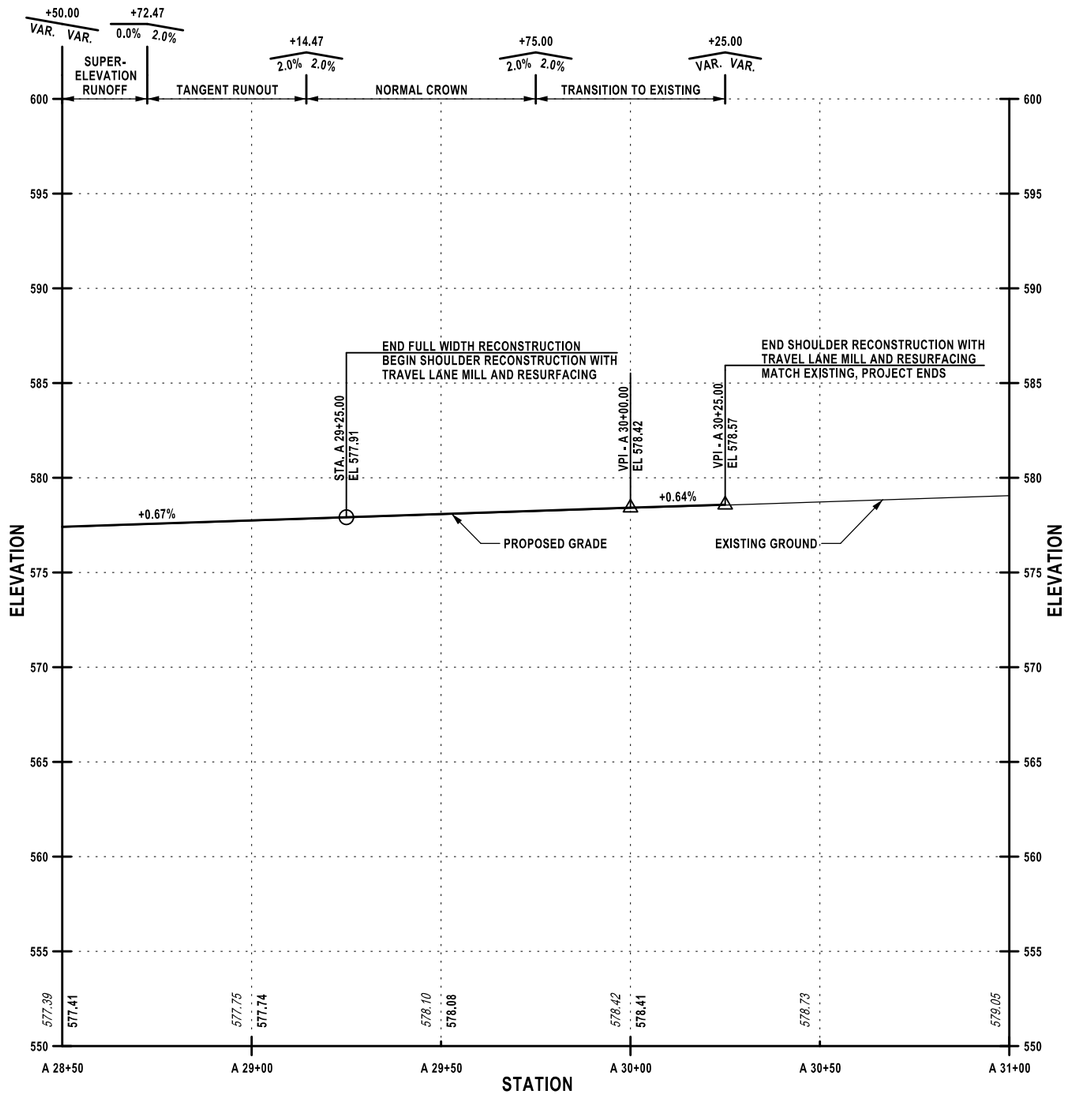
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

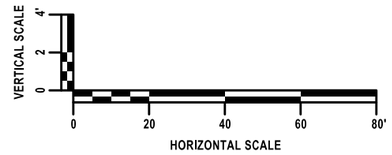
PDG Popli Design Group

TITLE OF PROJECT INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING HIGHWAY GENERAL PROFILE (3 OF 6)	DRAWING NUMBER: PRO-03



RAMP A AND BRIDGE PROFILE

SCALE: 1" H = 40'=0", 1" V = 8'-0"



DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
QUALITY CONTROL BY: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

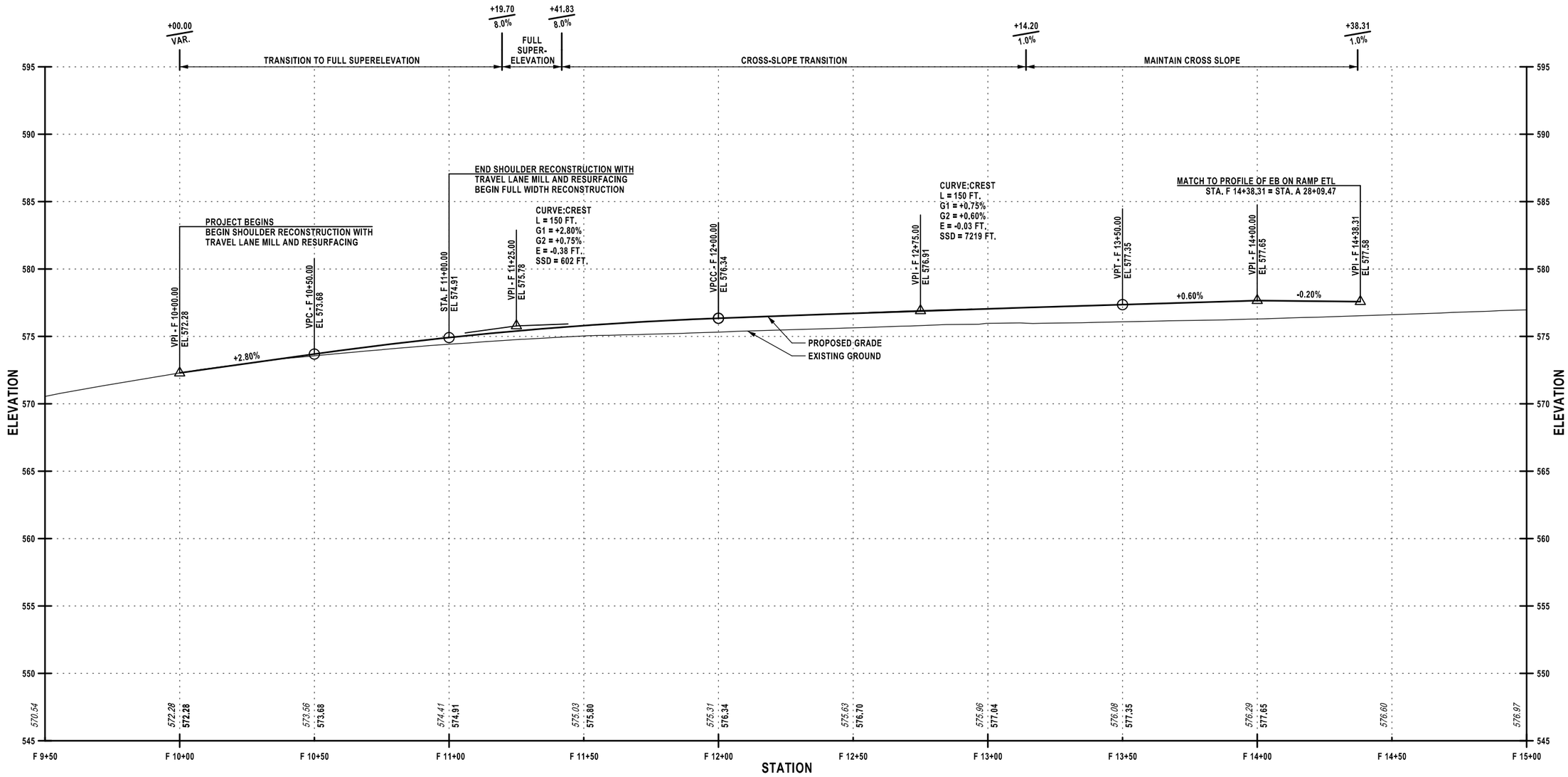
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: HIGHWAY GENERAL PROFILE (4 OF 6)	DRAWING NUMBER: PRO-04

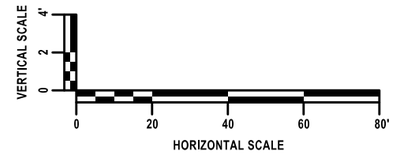
DESIGNED BY: E. BAXTER
DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL



ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

RAMP F PROFILE

SCALE: 1" H = 40'=0", 1" V = 8'-0"



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

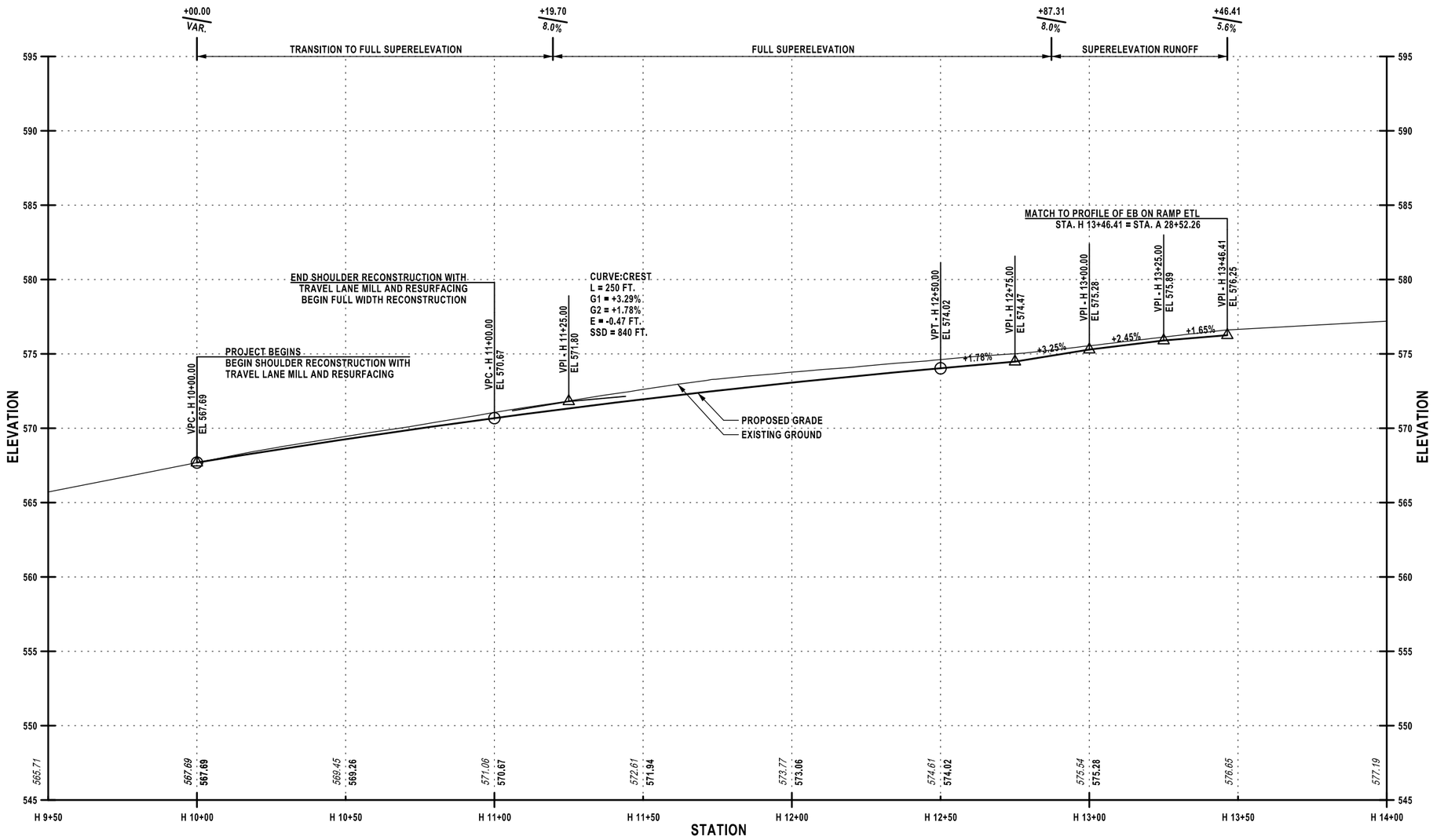
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING HIGHWAY GENERAL PROFILE (5 OF 6)	DRAWING NUMBER: PRO-05



DRAFTED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGNED BY: E. BAXTER
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

RAMP H PROFILE

SCALE: 1" H = 40'=0", 1" V = 8'-0"

VERTICAL SCALE 0 2 4'
HORIZONTAL SCALE 0 20 40 60 80'

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

REVISIONS

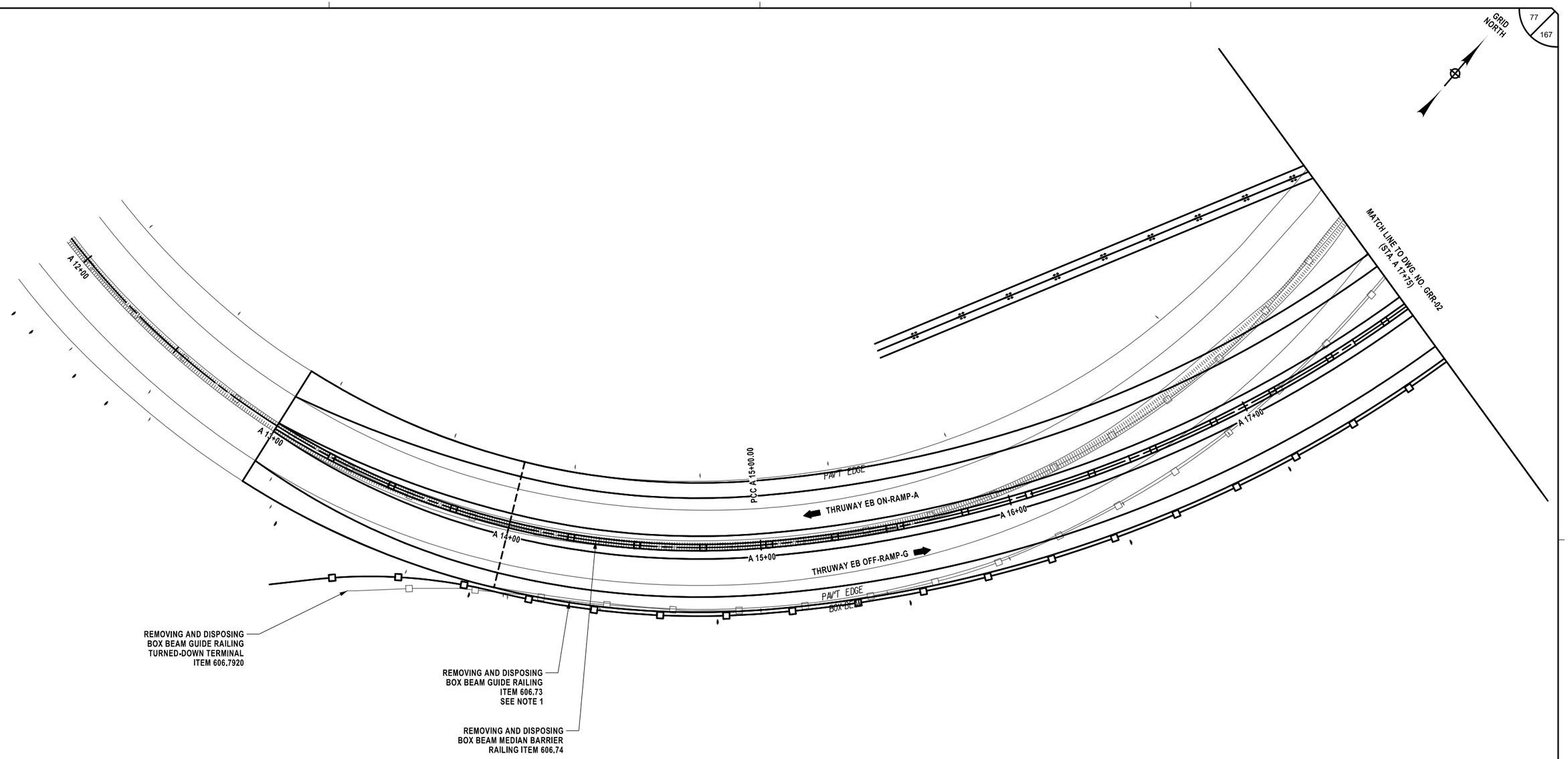
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	HIGHWAY GENERAL PROFILE (6 OF 6)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	PRO-06

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER



NOTE:

1. REMOVE ENTIRE RUN OF BOX BEAM GUIDE RAIL TO FACILITATE WZTC. SEE MST-02 FOR LOCATION.

20 0 20 40 60 80'
1" = 40'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	GUIDE RAIL REMOVAL PLAN (1 OF 6)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	GRR-01

GRID NORTH

BRIDGE RAIL TRANSITION TO BE REMOVED UNDER ITEM 606.73 SEE NOTE 1 TYP.

REMOVING AND DISPOSING BOX BEAM MEDIAN BARRIER RAILING ITEM 606.74

REMOVING AND DISPOSING BOX BEAM GUIDE RAILING TURNED-DOWN TERMINAL ITEM 606.7920

REMOVING AND DISPOSING BOX BEAM GUIDE RAILING ITEM 606.73

BRIDGE RAIL SEE NOTE 2

REMOVING AND DISPOSING BOX BEAM GUIDE RAILING ITEM 606.73

MATCH LINE TO DWG. NO. GRR-01 (STA. A 17+75)

PT A 19+17.64

THRUWAY EB ON-RAMP-A

THRUWAY EB OFF-RAMP-G

A 18+00

A 19+00

A 20+00

A 21+00

A 22+00

A 23+00

N 2°54'13.31" W
597.02

E 9+00

E 10+00

E 11+00

W 9+00

W 10+00

W 11+00

W 12+00

W-BEAM

PEDESTALS (TYP.)

362.44

2400

2600

THRUWAY EB ON-RAMP

THRUWAY EB

THRUWAY EB

THRUWAY WB

THRUWAY WB

REMOVING AND DISPOSING BOX BEAM MEDIAN BARRIER RAILING ITEM 606.74

MATCH LINE TO DWG. NO. GRR-03 (STA. A 23+50)

NOTES:

1. PAYMENT LENGTH AS SHOWN IN THE GUIDERAIL REMOVAL TABLE DWG. MST-02 SHALL INCLUDE REMOVAL OF ALL HARDWARE AND BOX BEAM ELEMENTS ASSOCIATED WITH THE BRIDGE RAIL TRANSITION.
2. REMOVAL AND DISPOSAL OF ALL BRIDGE RAIL SHALL BE PAID UNDER ITEM 202.120001. SEE BRIDGE PLANS FOR DETAILS. LIMIT OF BOX BEAM "BRIDGE" MEDIAN BARRIER REMOVAL SHALL BE AS SHOWN ON BRIDGE PLANS.
3. SEE MST-02 FOR GUIDE RAIL REMOVAL TABLE

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
☐BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
GUIDE RAIL REMOVAL PLAN (2 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: GRR-02

GRID NORTH

REMOVING AND DISPOSING BOX BEAM GUIDE RAILING TURNED DOWN TERMINAL ITEM 606.7920

PC F 10+00.00

F 10+00

REMOVING AND DISPOSING BOX BEAM GUIDE RAILING ITEM 606.73 SEE NOTE 1

THRUWAY WB ON-RAMP-F

PCC F 11+00.00

PT F 11+81.23

F 11+00

F 12+00

REMOVING AND DISPOSING BOX BEAM MEDIAN BARRIER RAILING ITEM 606.74

F 13+00

REMOVING AND DISPOSING BOX BEAM GUIDE RAILING ITEM 606.73

F 14+00

PT F 14+00.00

BOX-BEAM

MATCH LINE TO DWG. NO. GRR-02 (STA. A 23+50)

THRUWAY EB ON-RAMP-A

N 2°54'13.31" W
597.02'

A 24+00

A 25+00

A 26+00

A 27+00

A 28+00

THRUWAY EB OFF-RAMP-G

PC A 25+14.66

PT A 28+09.41

MATCH LINE TO DWG. NO. GRR-04 (STA. A 28+25)

H 13+00

H 12+00

PCC H 11+00.00

THRUWAY WB OFF-RAMP-H

H 11+00

PC H 10+00.00

H 10+00

NOTES:

1. REMOVAL LIMIT OF THE EXISTING TYPE 1 END ASSEMBLY WITH TURNED- DOWN TERMINAL
2. SEE MST-02 FOR GUIDE RAIL REMOVAL TABLE

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

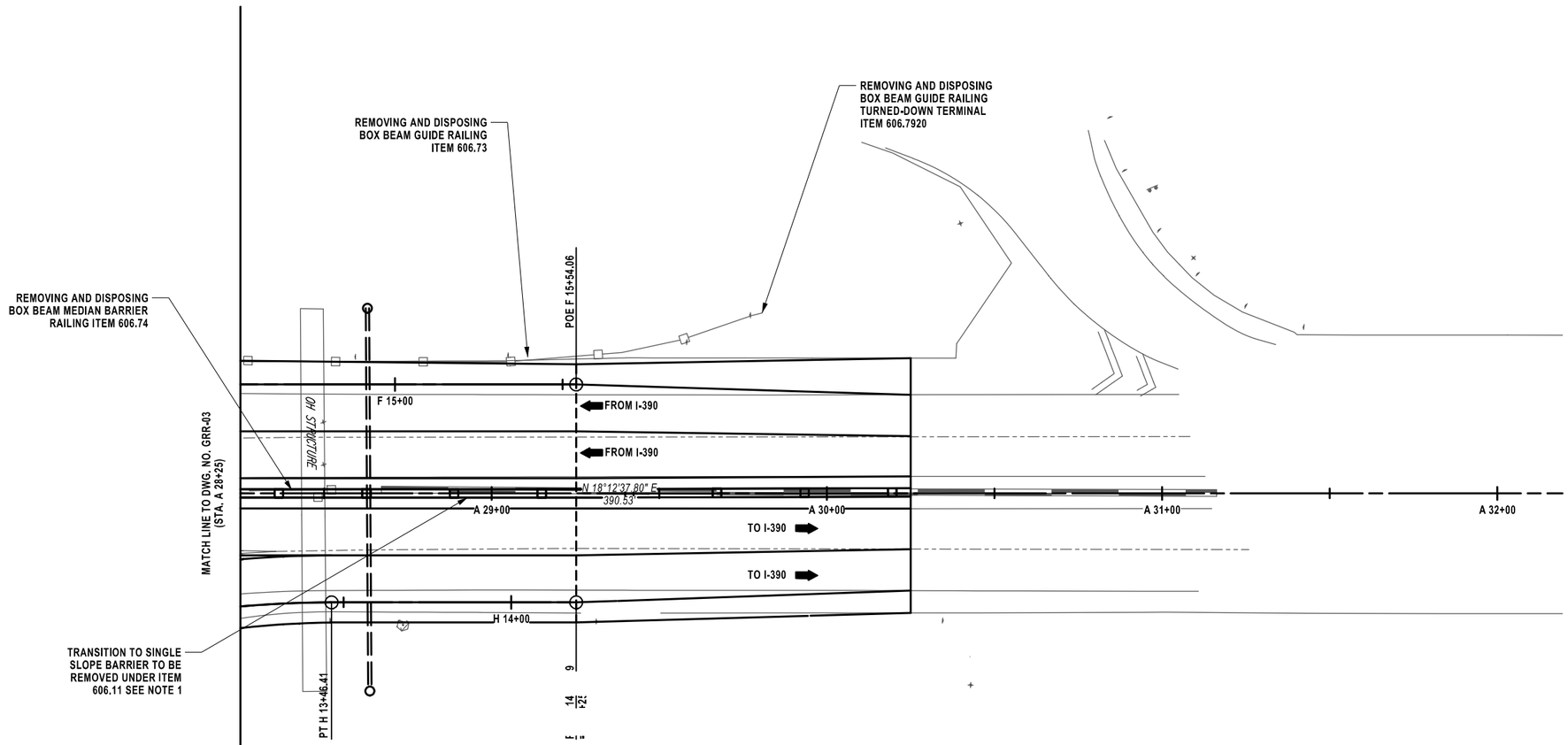
TITLE OF DRAWING: GUIDE RAIL REMOVAL PLAN (3 OF 6)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: GRR-03

GRID NORTH



NOTES:

1. PAYMENT LENGTH AS SHOWN IN THE GUIDERAIL REMOVAL TABLE DWG. MST-02 SHALL INCLUDE REMOVAL OF ALL HARDWARE, POSTS AND BOX BEAM ELEMENTS SHOWN ON STANDARD SHEET 606-25. REMOVAL OF CONCRETE MEDIAN BARRIER SHALL BE PAID UNDER ITEM 606.75
2. SEE MST-02 FOR GUIDE RAIL REMOVAL TABLE

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

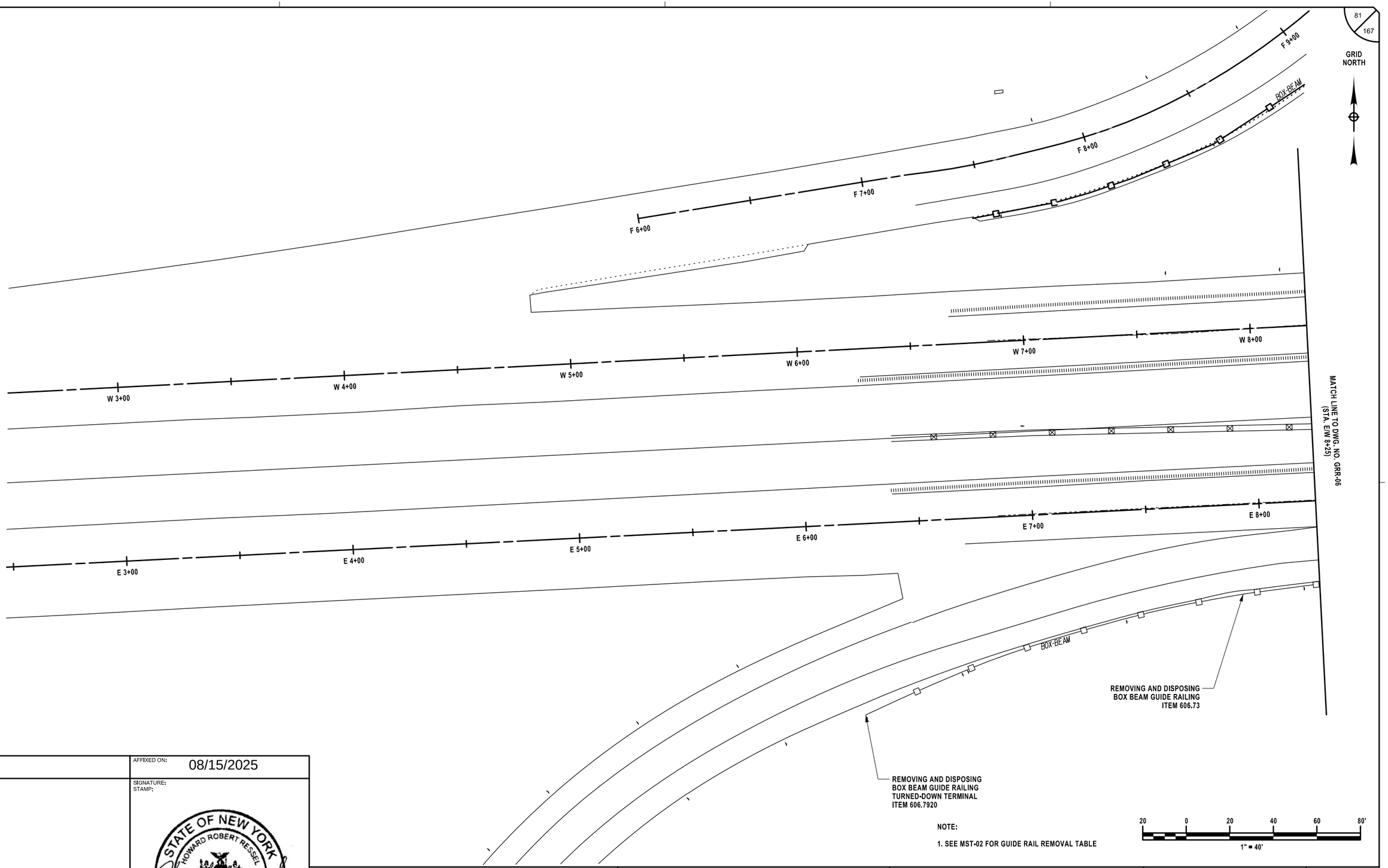
NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	GUIDE RAIL REMOVAL PLAN (4 OF 6)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	GRR-04

DESIGNED BY: H. RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

GRID NORTH



NOTE:

1. SEE MST-02 FOR GUIDE RAIL REMOVAL TABLE

20 0 20 40 60 80'
1" = 40'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
GUIDE RAIL
REMOVAL PLAN
(5 OF 6)

CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
GRR-05

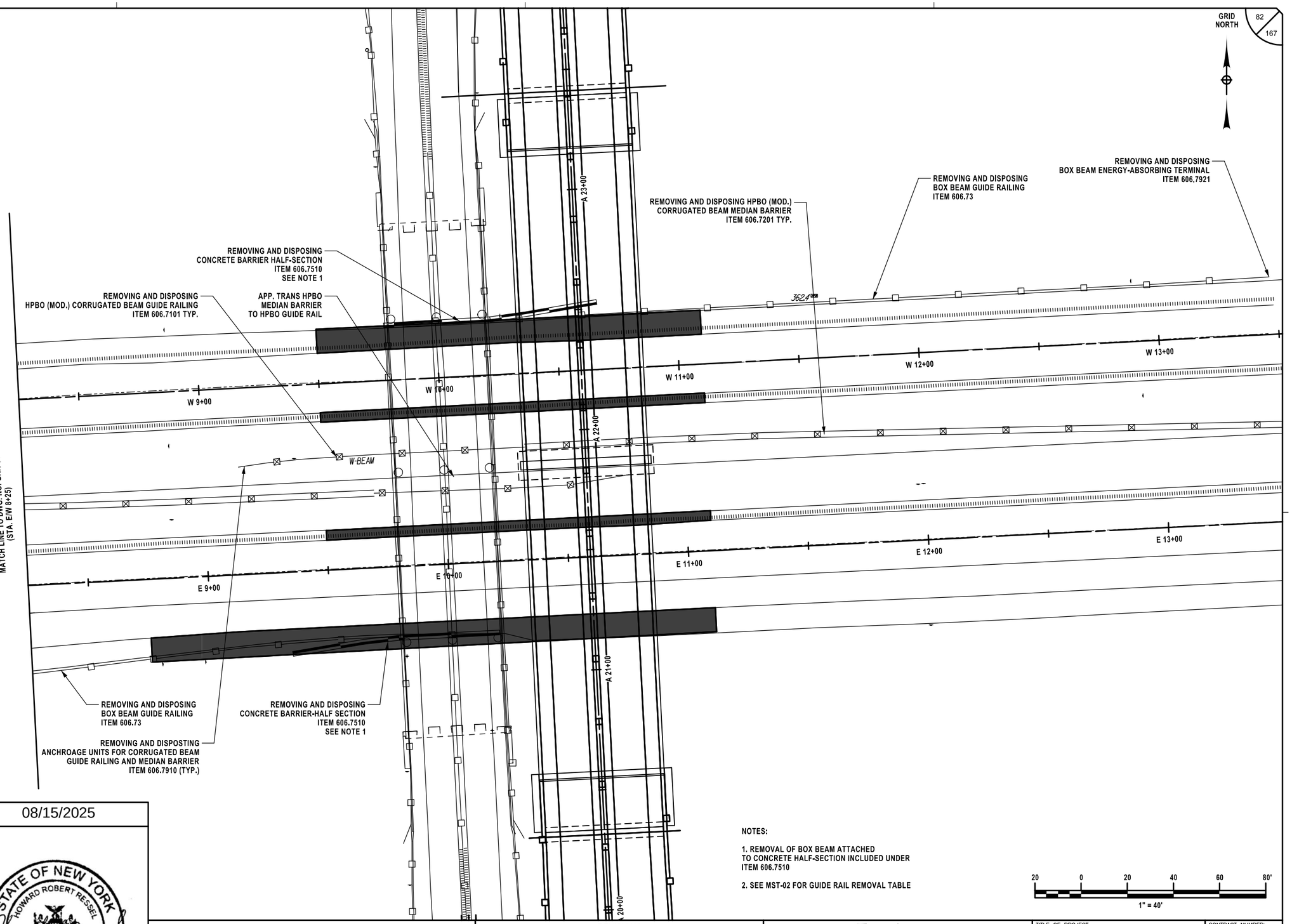
DRAFTED BY: A.JOANETTE CHECKED BY: H.RESSEL

DESIGNED BY: H. RESSEL CHECKED BY: E.BAXTER

DESIGN SUPERVISOR: H.RESSEL

GRID NORTH

82
167



NOTES:

1. REMOVAL OF BOX BEAM ATTACHED TO CONCRETE HALF-SECTION INCLUDED UNDER ITEM 606.7510

2. SEE MST-02 FOR GUIDE RAIL REMOVAL TABLE

20 0 20 40 60 80'

1" = 40'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

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

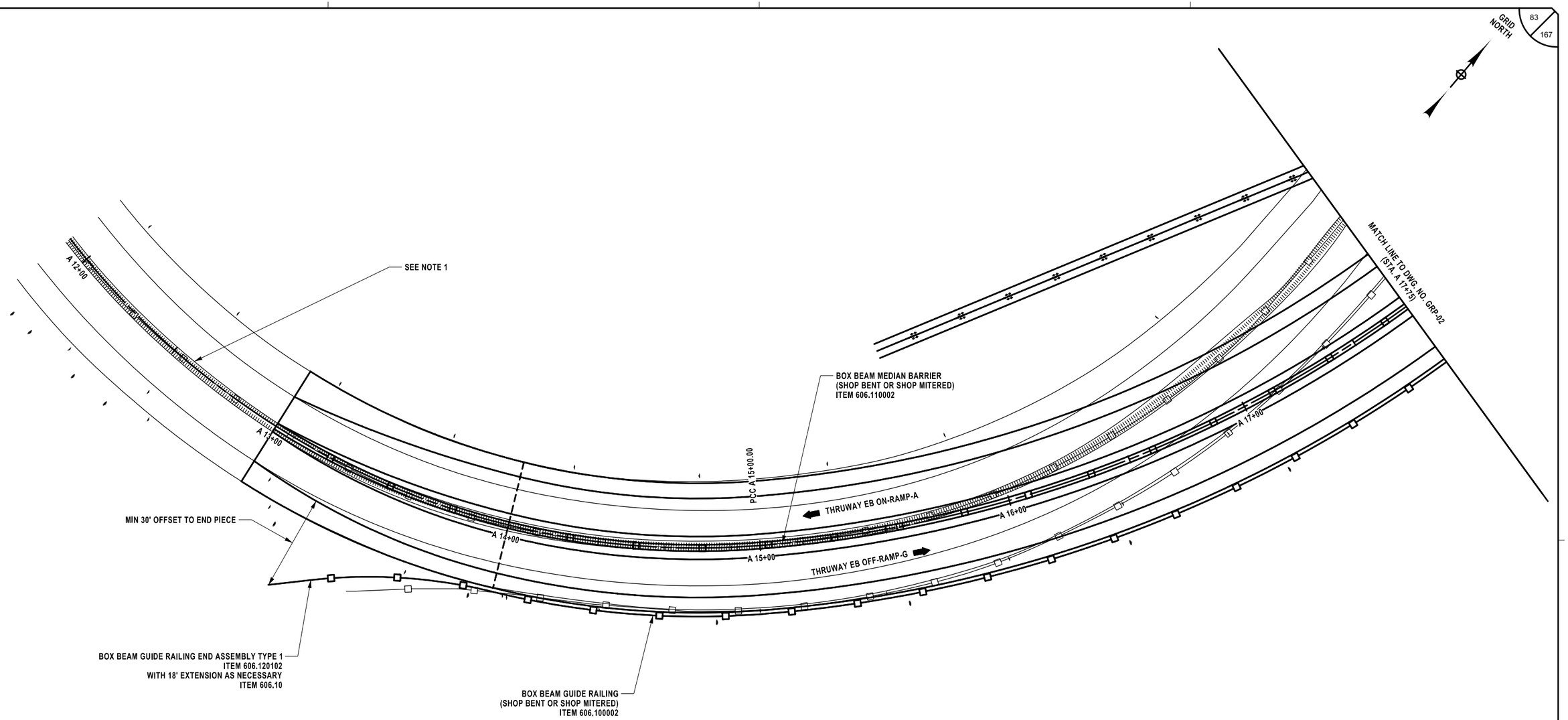
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: GUIDE RAIL REMOVAL PLAN (6 OF 6)	DRAWING NUMBER: GRR-06



NOTE:

1. INSTALL NEW RUN OF BOX BEAM GUIDE RAIL TO MATCH EXISTING SEE MST-03 FOR LOCATION.

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
GUIDE RAIL
INSTALLATION PLAN
(1 OF 5)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: GRP-01

GRID NORTH

BOX BEAM MEDIAN BARRIER
(SHOP BENT OR SHOP MITERED)
ITEM 606.110002

BOX BEAM END PIECE
ITEM 606.120101

MATCH LINE TO DWG. NO. GRP-01
(STA. A 17+75)

PT A 19+17.64

THRUWAY EB ON-RAMP-A

A 18+00

A 19+00

A 20+00

A 21+00

THRUWAY EB OFF-RAMP-G

A 22+00

N 2°54'13.31" W
597.02'

A 23+00

MATCH LINE TO DWG. NO. GRP-03
(STA. A 23+30)

E 9+00

E 10+00

E 11+00

W 9+00

W 10+00

W 11+00

W 12

W-BEAM

PEDESTALS
(TYP.)

362.44

THRUWAY EB ON-RAMP

THRUWAY EB

THRUWAY EB

THRUWAY WB

THRUWAY WB

BOX BEAM GUIDE RAILING
ITEM 606.10

BOX BEAM MEDIAN BARRIER
ITEM 606.11

SEE BRIDGE PLANS
FOR BRIDGE RAIL AND TRANSITIONS

BOX BEAM GUIDE RAILING
(SHOP BENT OR SHOP MITERED)
ITEM 606.100002

SEE DWG GRP-05
FOR MAINLINE GUIDE RAIL

NOTE:

1. SEE DWG. MST-03 FOR GUIDE RAIL TABLES

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	GUIDE RAIL INSTALLATION PLAN (2 OF 5)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	GRP-02

GRID NORTH

PC F 10+00.00

F 10+00

THRUWAY WB ON-RAMP-F

30' OFFSET

BOX BEAM GUIDE RAILING
END ASSEMBLY TYPE 1
ITEM 606.120102
WITH 18' EXTENSION
AS NECESSARY
ITEM 606.10

BOX-BEAM

PAVT EDGE

BOX BEAM GUIDE RAILING END ASSEMBLY TYPE 1
ITEM 606.120102
WITH 18' EXTENSION AS NECESSARY
ITEM 606.10

PCC F 11+00.00

F 11+00

PT F 11+81.23

BOX BEAM MEDIAN BARRIER
ITEM 606.11

F 12+00

F 13+00

F 14+00

ASPHALT

PAVT EDGE

30' OFFSET

MATCH LINE TO DWG. NO. GRP-02
(STA. A 23+50)

THRUWAY EB ON-RAMP-A

N 2°54'13.31" W
597.02'

A 24+00

A 25+00

A 26+00

A 27+00

A 28+00

BOX BEAM GUIDE RAILING
ITEM 606.10

THRUWAY EB OFF-RAMP-G

PC A 25+14.66

BOX BEAM END PIECE
ITEM 606.120101

BOX BEAM GUIDE RAILING
ITEM 606.10

PCC H 11+00.00

THRUWAY WB OFF-RAMP-H

H 12+00

H 13+00

H 11+00

PC H 10+00.00

H 10+00

PT A 28+09.47

MATCH LINE TO DWG. NO. GRP-04
(STA. A 28+25)

NOTE:

1. SEE DWG. MST-03 FOR GUIDE RAIL TABLES

20 0 20 40 60 80'

1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

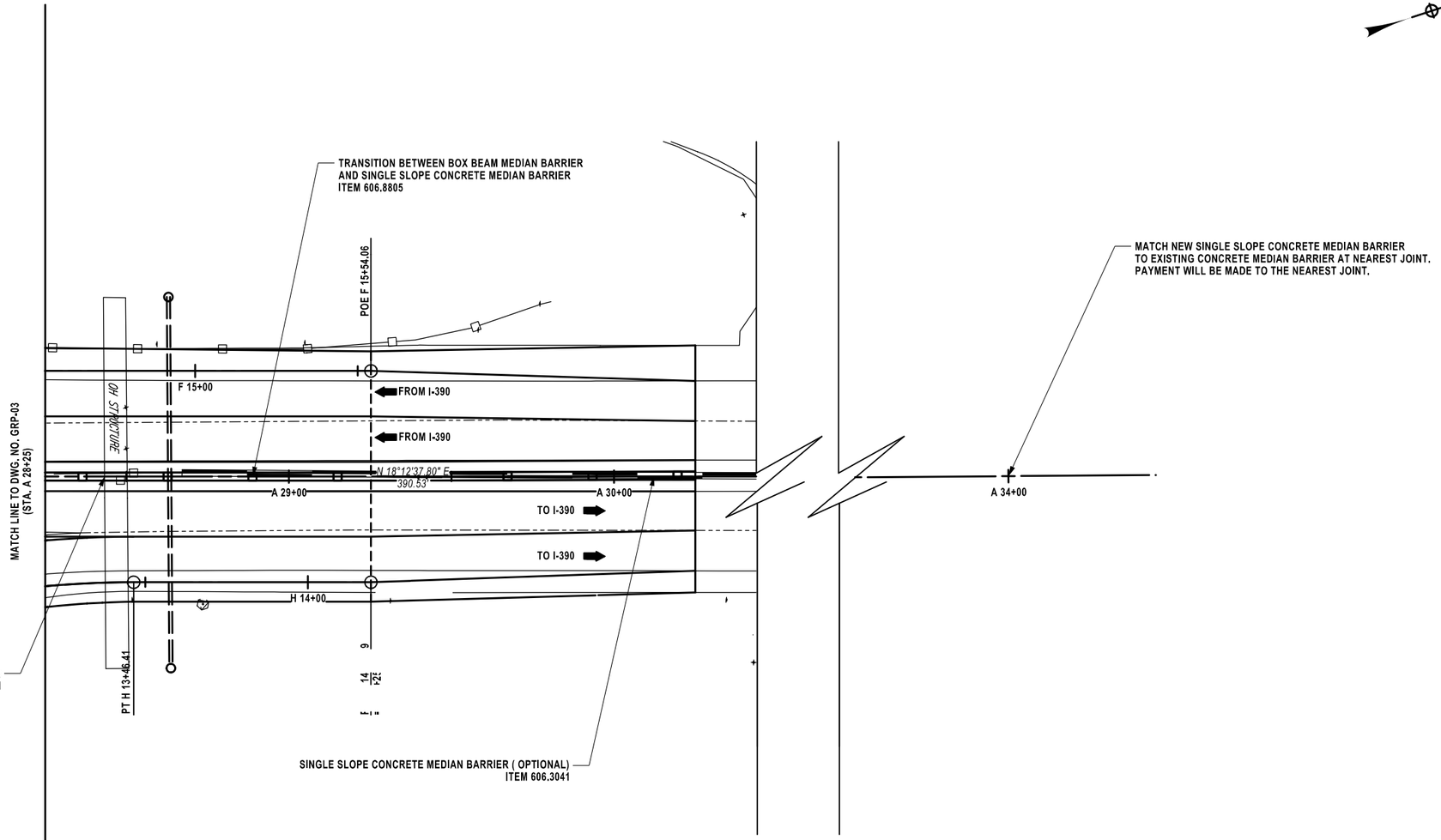
TITLE OF DRAWING
GUIDE RAIL
INSTALLATION PLAN
(3 OF 5)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: GRP-03

GRID NORTH



NOTE:

1. SEE DWG. MST-03 FOR GUIDE RAIL TABLES

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
GUIDE RAIL
INSTALLATION PLAN
(4 OF 5)

CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
GRP-04

GRID NORTH

F 8+00
F 9+00
W 8+00
W 9+00
W 10+00
W 11+00
W 12+00
W 13+00
E 8+00
E 9+00
E 10+00
E 11+00
E 12+00
E 13+00
A 20+00
A 21+00
A 22+00
A 23+00
362.4'
W-BEAM
W-BEAM
W-BEAM
CHAIN LINK
CHAIN LINK
PVC 8" MW-56386'
PVC 8" MW-56383'

ANCHORAGE UNITS FOR HPBO (MOD.) CORRUGATED BEAM MEDIAN BARRIER ITEM 606.2802

HPBO (MOD.) CORRUGATED BEAM MEDIAN BARRIER ITEM 606.2801

ATTACH HPBO (MOD.) CORRUGATED BEAM MEDIAN BARRIER TO EXISTING RAIL AT NEAREST EXISTING SPLICE. PAYMENT WILL BE MADE TO THE NEAREST SPLICE. SEE NOTE 1

ATTACH NEW HPBO (MOD.) CORRUGATED BEAM MEDIAN BARRIER TO EXISTING RAIL AT NEAREST EXISTING SPLICE. PAYMENT WILL BE MADE TO THE NEAREST SPLICE. SEE NOTE 1.

ANCHORAGE UNITS FOR HPBO (MOD.) CORRUGATED BEAM MEDIAN BARRIER ITEM 606.2802

NOTES:

1. COST TO SPLICE TO EXISTING HPBO (MOD.) CORRUGATED BEAM MEDIAN BARRIER SHALL BE INCLUDED IN PRICE BID FOR ITEM 606.2801
2. SEE DWG. MST-03 FOR GUIDE RAIL TABLES.

20 0 20 40 60 80'
1" = 40'

DESIGN SUPERVISOR: H.RESSEL
DESIGNED BY: H. RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK HOWARD ROBERT RESSEL 065545-1 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

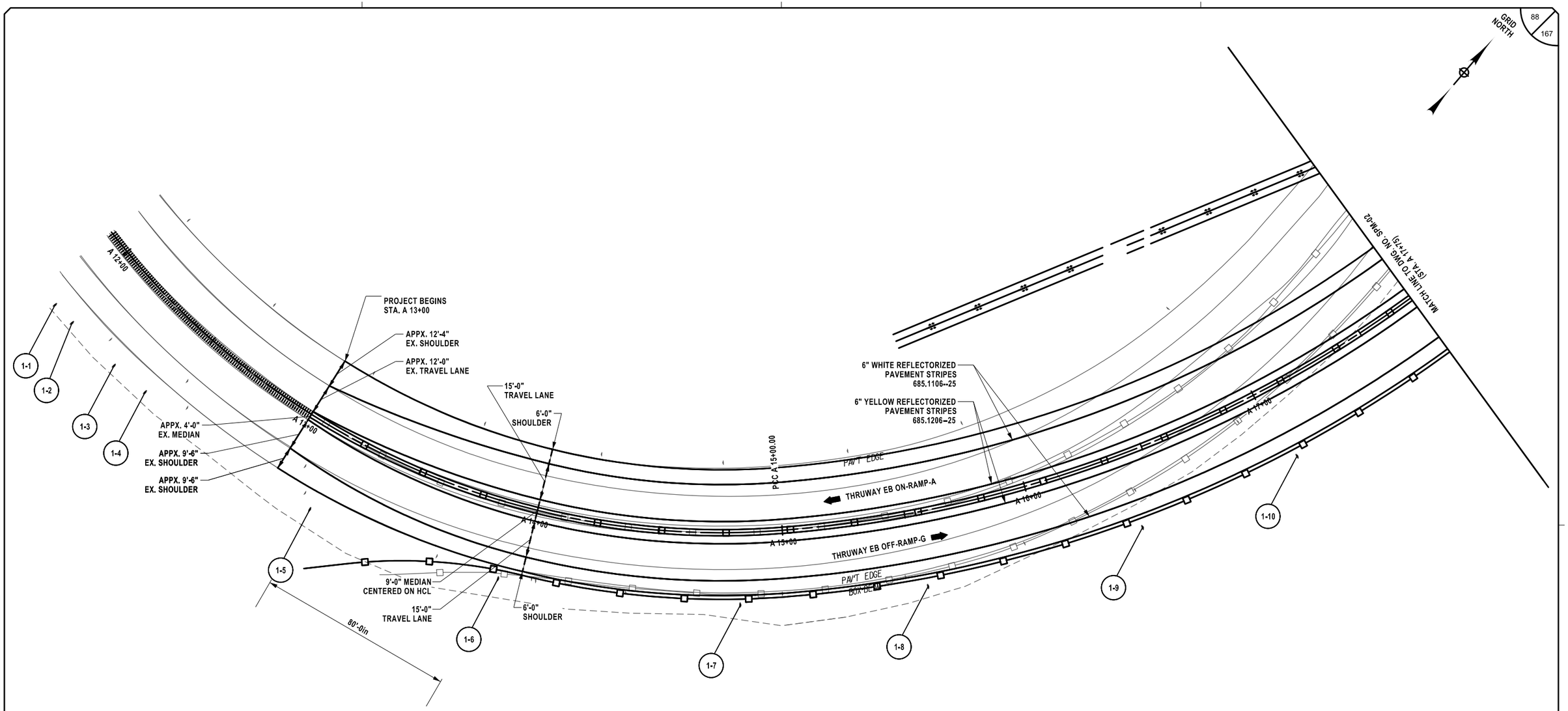
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 8/15/2025
TITLE OF DRAWING: GUIDE RAIL INSTALLATION PLAN (5 OF 5)	DRAWING NUMBER: GRP-05

DESIGNED BY: H.RESSEL
DRAFTED BY: A.LAMININI
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER



ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

645.81	TYPE A SIGN POST	EA
647.53	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE III (OVER 100 SQUARE FEET)	EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS - SIZE I (UNDER 30 SQUARE FEET)	EA
647.65	REMOVE AND DISPOSE TYPE B GROUND MOUNTED SIGN SUPPORT AND FOUNDATION	EA
685.1106--25	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES, 6" X 20MILS	LF
685.1206--25	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES, 6" X 20MILS	LF

NOTE:
SEE DWG SGT-01 FOR SIGN TABLE

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	SIGNS AND PAVEMENT MARKINGS (1 OF 4)
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	SPM-01

GRID NORTH

MATCH LINE TO DWG. NO. SPM-01 (STA. A 17+75)

REMOVE EXISTING SIGN ASSEMBLY ITEM 647.61

2-1 2-2 2-3 2-4 2-5

6'-0" SHOULDER
9'-0" MEDIAN CENTERED ON HCL
15'-0" TRAVEL LANE
15'-0" TRAVEL LANE
PT A 19+17.64
15'-0" TRAVEL LANE
THRUWAY EB ON-RAMP-A
14'-0" TRAVEL LANE
15'-0" TRAVEL LANE
15'-0" TRAVEL LANE
THRUWAY EB OFF-RAMP-G
14'-0" TRAVEL LANE
6'-0" SHOULDER

TRANSITION LANE WIDTH FROM STA. 19+25.00 TO STA. 20+25.00

A 18+00 A 19+00 A 20+00 A 21+00 A 22+00 A 23+00

E 9+00 E 10+00 E 11+00 W 10+00 W 11+00 W 12+00

EXIT 46

W-BEAM

PEDESTALS (TYP.)

362.44

5900.00

N 2°54'13.31" W
597.02

6" YELLOW REFLECTORIZED PAVEMENT STRIPES 685.1206--25

6" WHITE REFLECTORIZED PAVEMENT STRIPES 685.1106--25

THRUWAY EB ON-RAMP
THRUWAY EB
THRUWAY EB
THRUWAY WB
THRUWAY WB

SEE TYP-04 FOR MAINLINE STRIPING (TYP.)

MATCH LINE TO DWG. NO. SPM-03 (STA. A 23+50)

645.81	TYPE A SIGN POST	EA
647.53	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE III (OVER 100 SQUARE FEET)	EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS - SIZE I (UNDER 30 SQUARE FEET)	EA
647.65	REMOVE AND DISPOSE TYPE B GROUND MOUNTED SIGN SUPPORT AND FOUNDATION	EA
685.1106--25	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES, 6" X 20MILS	LF
685.1206--25	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES, 6" X 20MILS	LF

NOTE:
SEE DWG SGT-01 FOR SIGN TABLE

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.LAMININI
CHECKED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025
SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Poppli Design Group

TITLE OF PROJECT
□INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
SIGNS AND PAVEMENT MARKINGS
(2 OF 4)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: SPM-02

GRID NORTH

APPX. 11'-6" EX. SHOULDER
APPX. 13'-11" EX. TRAVEL LANE
APPX. 13'-2" EX. SHOULDER
SIGN TO REMAIN
REMOVE EXISTING SIGN ASSEMBLY ITEM 647.61
REMOVE EXISING SIGN ASSEMBLY ITEM 647.61
REMOVE EXISTING SIGN ITEM 647.61
MATCH LINE TO DWG. NO. SPM-02 (STA. A 23+50)
MATCH LINE TO DWG. NO. SPM-04 (STA. A 28+25)
THRUWAY WB ON-RAMP-F
THRUWAY EB ON-RAMP-A
THRUWAY EB OFF-RAMP-G
THRUWAY WB OFF-RAMP-H
BOX-BEAM
PAVT EDGE
MEDIAN
EAST 30 WEST
N 2°54'13.31" W 597.02
BC A 25+14.66
BC F 10+00.00
BCC F 11+00.00
F 10+00
F 11+00
F 11+81.23
F 12+00
F 13+00
F 14+00
A 24+00
A 25+00
A 26+00
A 27+00
A 28+08.41
H 11+00
H 12+00
H 13+00
RAMP 25 MPH
25 MPH
CBS 50 N=1112415.77 E=1397434.41 ELEV=575.43' NAIL
INSTA HENRIETTA MAINTENCE
ASPHALT
TREE
+75
+52
+39
+41
+43
+390
10'-0" SHOULDER
14'-0" TRAVEL LANE
6'-0" SHOULDER
9'-0" MEDIAN CENTERED ON HCL
2 LANE OFF-RAMP
APPX. 10'-11" EX. SHOULDER
APPX. 13'-9" EX. TRAVEL LANE
APPX. 10'-9" EX. TRAVEL LANE
3-1
3-2
3-3
3-4
3-5
TRANSITION SHOULDER WIDTH FROM STA. F 11+81.23 TO STA. A 29+25.00
TRANSITION SHOULDER WIDTH FROM STA. H 11+00.00 TO STA. H 13+46.41
6" WHITE REFLECTORIZED PAVEMENT STRIPES 685.1106--25
6" YELLOW REFLECTORIZED PAVEMENT STRIPES 685.1206--25
12" WHITE REFLECTORIZED PAVEMENT STRIPES 685.1106--25
24" WHITE REFLECTORIZED PAVEMENT STRIPES (CHEVRON) 685.1106--25
REMOVE EXISTING SIGN ITEM 647.53, ITEM 647.65

NOTE:
SEE DWG SGT-01 FOR SIGN TABLE

645.81	TYPE A SIGN POST	EA
647.53	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE III (OVER 100 SQUARE FEET)	EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS - SIZE I (UNDER 30 SQUARE FEET)	EA
647.65	REMOVE AND DISPOSE TYPE B GROUND MOUNTED SIGN SUPPORT AND FOUNDATION	EA
685.1106--25	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES, 6" X 20MILS	LF
685.1206--25	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES, 6" X 20MILS	LF

20 0 20 40 60 80'
1" = 40'

DESIGNED BY: H.RESSEL
DRAFTED BY: A.LAMININI
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:
AFFIXED ON: 08/15/2025
SIGNATURE:
STAMP:
SIGNATURE:
STAMP:

STATE OF NEW YORK
HOWARD ROBERT RESSEL
065545-1
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

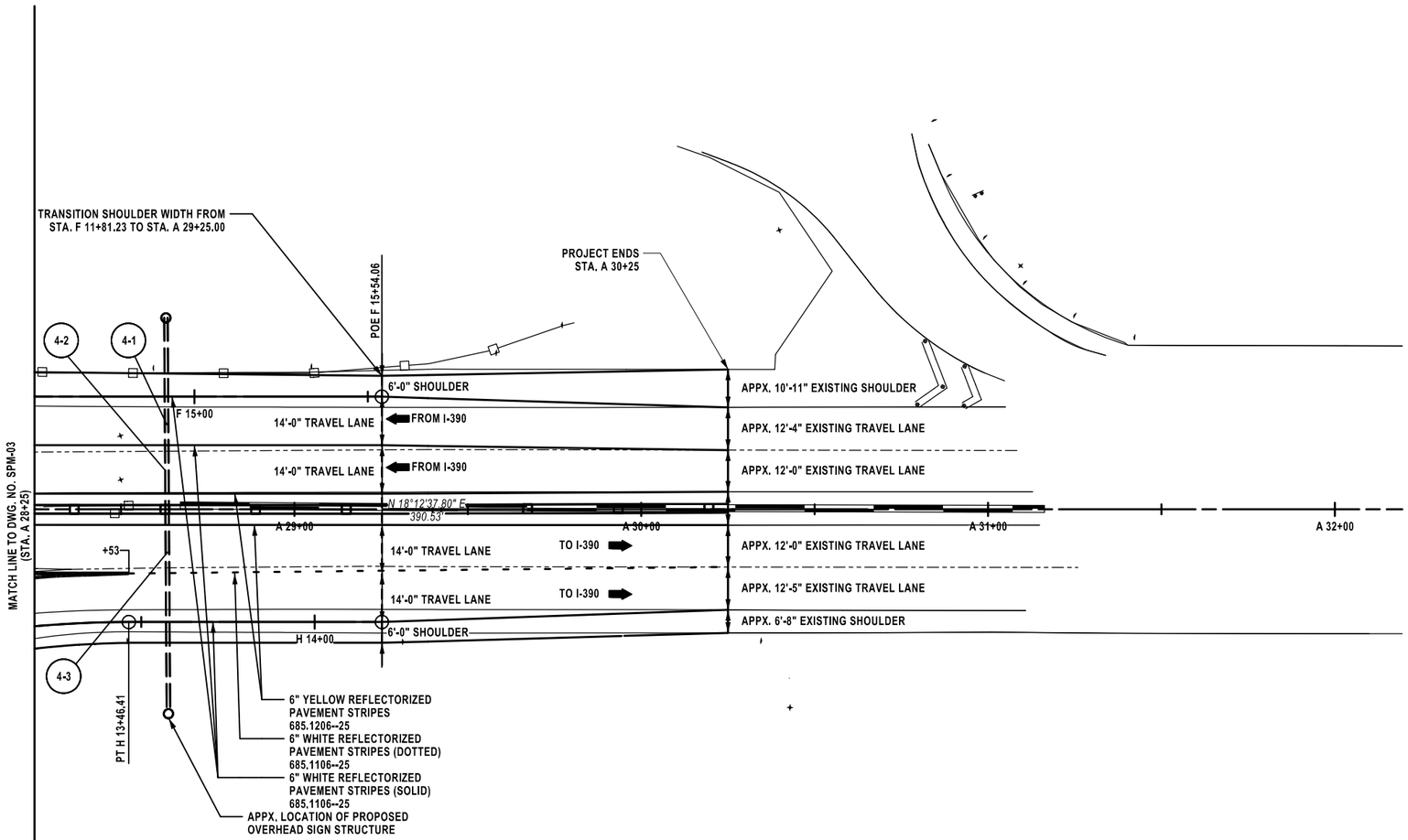
TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION MP 362.44

TITLE OF DRAWING
SIGNS AND PAVEMENT MARKINGS
(3 OF 4)

CONTRACT NUMBER: TAB 25-17B
DATE: 8/15/2025
DRAWING NUMBER: SPM-03

GRID NORTH



645.81	TYPE A SIGN POST	EA
647.53	REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE III (OVER 100 SQUARE FEET)	EA
647.61	REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS - SIZE I (UNDER 30 SQUARE FEET)	EA
647.65	REMOVE AND DISPOSE TYPE B GROUND MOUNTED SIGN SUPPORT AND FOUNDATION	EA
685.1106--25	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES, 6" X 20MILS	LF
685.1206--25	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES, 6" X 20MILS	LF

NOTE:
SEE DWG SGT-01 FOR SIGN TABLE

20 0 20 40 60 80'
1" = 40'

DRAFTED BY: A.LAMININI
CHECKED BY: H.RESSEL
DESIGNED BY: H.RESSEL
CHECKED BY: E.BAXTER
DESIGN SUPERVISOR: H.RESSEL

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
SIGNS AND PAVEMENT MARKINGS
(4 OF 4)

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: SPM-04

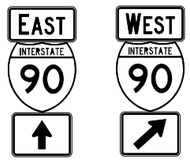
SIGNING NOTES:

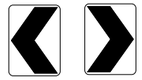
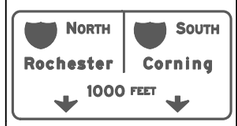
1. SIGN LOCATIONS AS SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL INSTALL NEW SIGNS AND RELOCATE EXISTING SIGNS IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENT.
2. THE COLOR IS ONLY SHOWN WHEN THERE IS AN OPTION THAT MUST BE SPECIFIED.
3. THE AREA AND PAYMENT AREA FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUTS.
4. THE BRIDGE MOUNTED AND OVERHEAD MOUNTED SIGN WILL BE SUPPLIED BY THE THRUWAY AND INSTALLED BY THE CONTRACTOR. FOR MOUNTING DETAILS SEE DWG. ST-53 AND OSS PLANS.

SIGN REMOVAL TABLE

647.53 - REMOVE AND DISPOSE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE III (OVER 100 SQUARE FEET)
647.61 - REMOVE AND DISPOSE SIGNS, GROUND MOUNTED TYPE A SIGN SUPPORTS AND FOUNDATIONS- SIZE I (UNDER 30 SQUARE FEET)
647.65 - REMOVE AND DISPOSE TYPE B GROUND MOUNTED SIGN SUPPORT AND FOUNDATION

SIGN TEXT	STA.	OFFSET	ITEM 647.53 (EA)	ITEM 647.61 (EA)	ITEM 647.65 (EA)
CURVE SIGN	F 14+10	13' LT		1	
CURVE SIGN	A 20+15	82 LT		1	
SPEED PLAQUE	F 14+10	13' LT		1	
SPEED PLAQUE	A 20+15	82 LT		1	
RAMP SPEED	F 11+38	13' LT		1	
ARROW	F 10+64	39' RT		2	
EAST/WEST	F 10+64	39' RT		2	
90 SHIELD	F 10+64	39' RT		2	
MERGE	A 24+46	25' LT		1	
MERGE	H 11+36	27' LT		1	
ROCHESTER/ CORNING SIGN	H 12+26	12' RT	1		2
		TOTAL:	1	13	2

DESIGNATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE AREA (SEE NOTE 3)	TOTAL PAYMENT AREA (SF)
W 1-2 W 13-1P	2-1 1		645.5102	48" X 48" 30" X 30"	22.25
E1-1	2-4 2-5 N/A		645.61000125 SEE NOTE 4	9'-6" X 2'-0"	38
W 4-3	3-1 3-4 2		645.5102	48" X 48"	32
W 13-3	3-2 1		645.5102	48" X 60"	20
M3-2 M3-2 M1-1 M1-1 M6-3 M6-2	3-3 1		645.5102	36" X 18" 36" X 36" 30" X 21"	35.8
W 1-2 W 13-1P	3-5 1		645.5102	48" X 48" 30" X 30"	22.25

DESIGNATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE AREA (SEE NOTE 3)	TOTAL PAYMENT AREA (SF)
W1-8	1-1,1-2, 1-3,1-4, 1-5,1-6, 1-7,1-8, 1-9,1-10, 2-2,2-3 12	 BACK TO BACK	645.5102	36"X48"	288.0
E1-1	4-1 N/A		645.61000125 SEE NOTE 4	12' X 10'-6"	126
E 1-1	4-2 N/A		645.61000125 SEE NOTE 4	12' X 10'-6"	126
E 1-1	4-3 N/A		645.61000125 SEE NOTE 4	26' X 12'-6"	325

DESIGNED BY: H.RESSEL
DRAFTED BY: A.JOANETTE
CHECKED BY: H.RESSEL
DESIGN SUPERVISOR: H.RESSEL
CHECKED BY: E.BAXTER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · HOWARD ROBERT RESSEL · 065545-1 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Poepli Design Group

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
SIGN TABLE

CONTRACT NUMBER: TAB 25-17B

DATE: 8/15/2025

DRAWING NUMBER: SGT-01

DESIGN SUPERVISOR: JMC
DESIGNED BY: JMC
DRAFTED BY: AA
CHECKED BY: JMC

RELOCATE ACCESS DRIVE

DR SWM-1
RECTANGULAR DRAINAGE STRUCTURE TYPE U WITH CONCRETE COLLAR FOR #22 WELDED FRAME
RIM = 559.37
INVERT 24" PIPE = 554.89
INVERT 8" PVC = 554.89
ITEM 604.302122
(SEE NOTE 2)

INVERT = 554.00

GALVANIZED STEEL END SECTIONS, 30 INCH DIAMETER, 14 GAUGE
ITEM 603.171614

24" SICPP
ITEM 603.9824

DRY SWALE ALIGNMENT
REFER TO TABLE ON DRAWING NO. SWD-1

DS-1
6' WIDE DRY SWALE
1 ON 4 SIDE SLOPES
(SEE NOTE 1)

8" PERFORATED PVC UNDERDRAIN PIPE
ITEM 605.1603

CLEANOUT TO BE PAID FOR UNDER
ITEM 605.1603

18" HIGH PERMANENT CHECKDAM
ITEM 209.110602

GRASS LINED PRETREATMENT SWALE
6' WIDE WITH 1 ON 4 SLOPES

LIMIT OF SWALE SLOPE

TOP OF BANK OR ABUTMENT REGRADING

THRUWAY EB ON-RAMP

THRUWAY EB OFF-RAMP

GRID NORTH

NOTES:

1. INSTALL DRY SWALE AS ONE OF THE LAST ITEMS TO BE CONSTRUCTED.
2. REFER TO NYSDOT STANDARD SHEET 604-02 FOR STRUCTURE DETAILS

40 0 40 80'
1" = 40'

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220131464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

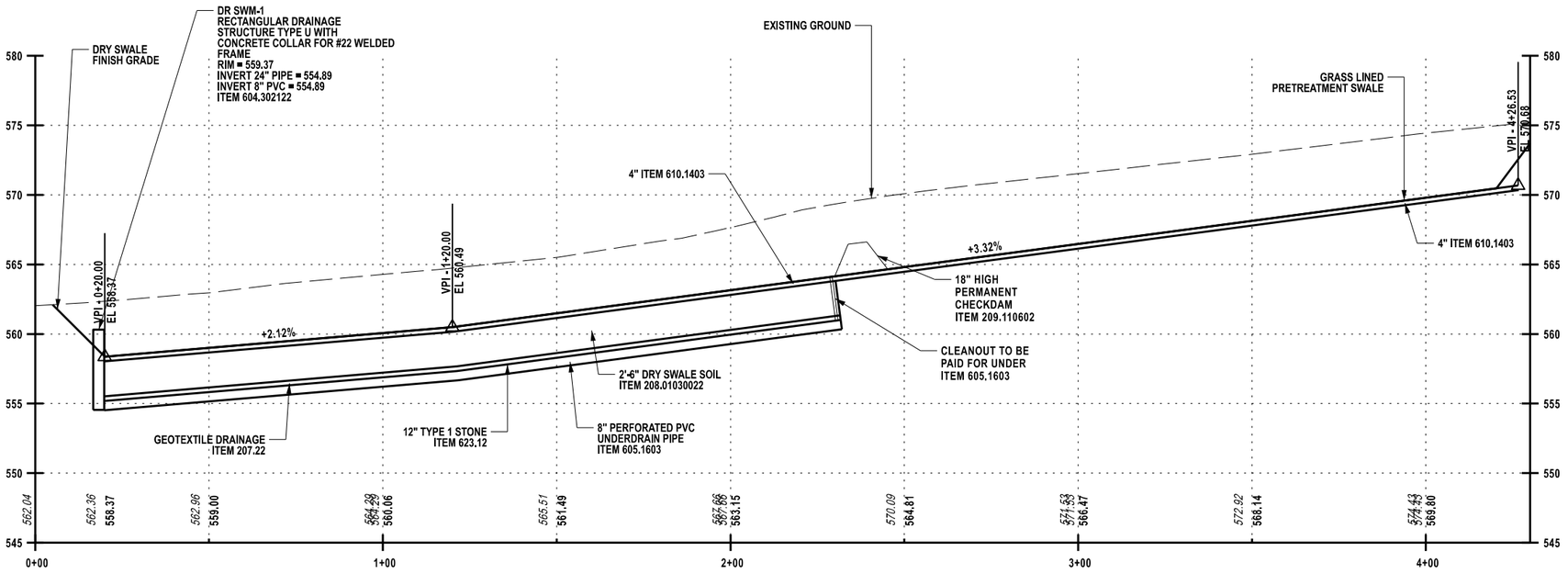
TITLE OF DRAWING
STORMWATER MANAGEMENT PLAN

CONTRACT NUMBER: TAB 25-17B

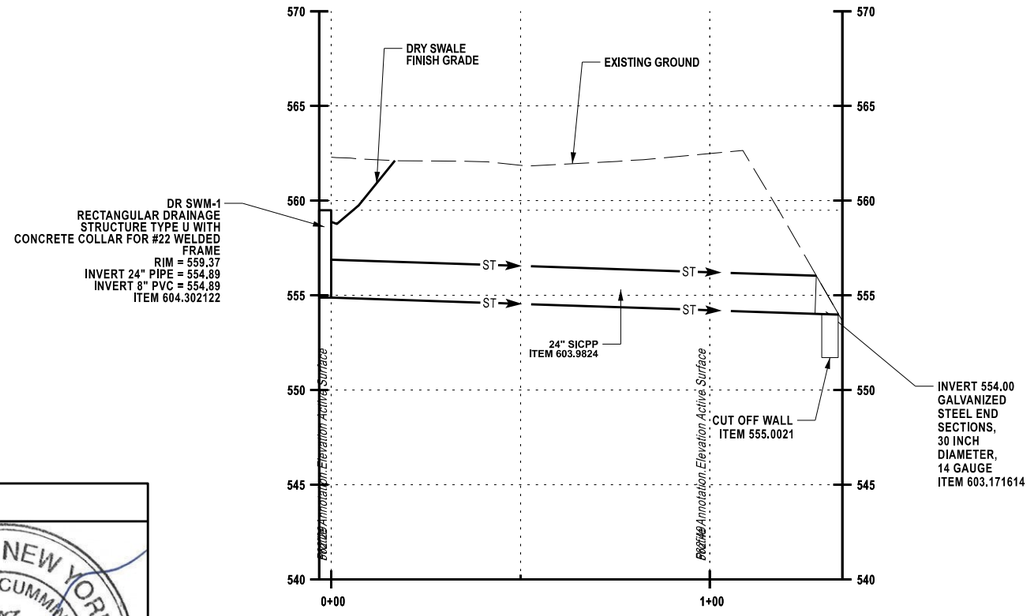
DATE: 8/15/2025

DRAWING NUMBER: SWP-1

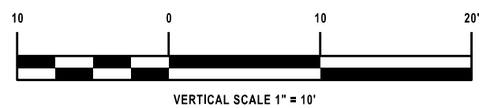
DRAFTED BY: AA
CHECKED BY: JMC
DESIGNED BY: JMC
CHECKED BY: JMC
DESIGN SUPERVISOR: JMC



DRY SWALE PROFILE



DRY SWALE OUTLET PIPE PROFILE



VERTICAL SCALE 1" = 10'



HORIZONTAL SCALE 1" = 40'

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

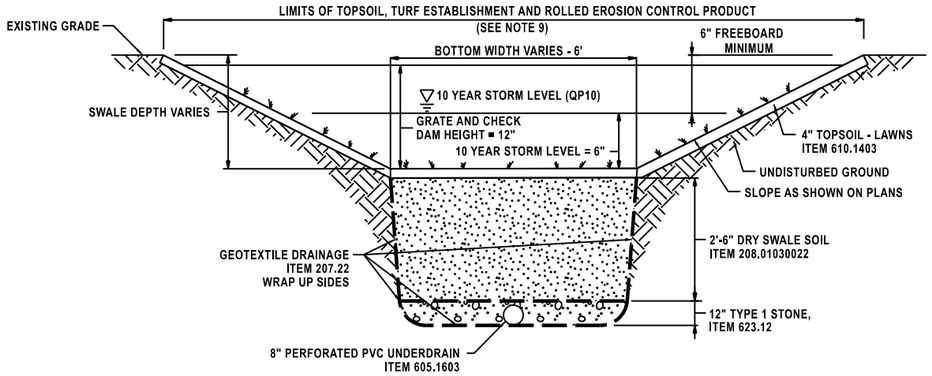
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
STORMWATER
PROFILES

CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
SWP-2



GENERAL NOTES:

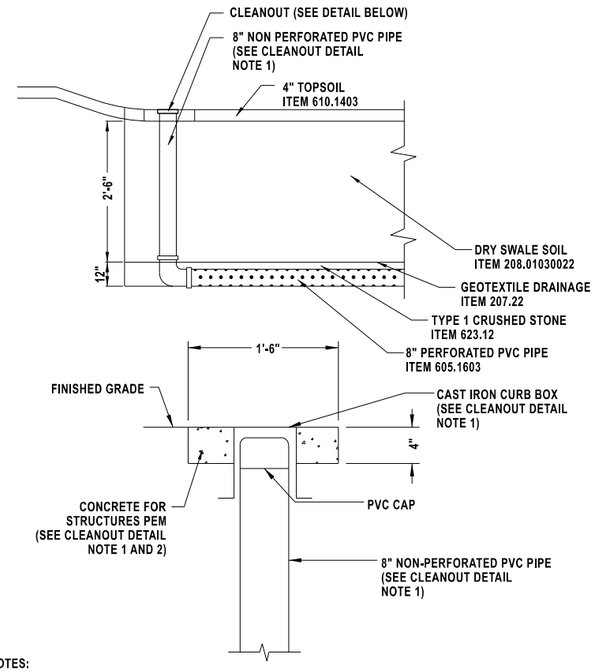
1. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES IN ACCORDANCE WITH THE SWPPP PRIOR TO THE START OF ANY CONSTRUCTION OPERATION THAT MAY CAUSE ANY SEDIMENTATION OR SILTATION AT THE SITE.
2. GRADING OF THE DRY SWALE SHALL BE ACCOMPLISHED USING LOW-IMPACT EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION OF THE UNDERLYING SOILS. SMALL TRACKED DOZERS AND BOBCATS WITH RUNNER TRACKS ARE RECOMMENDED.
3. EXCAVATE THE DRY SWALE TO THE SPECIFIED DEPTH. ALL SUB GRADE MATERIAL BELOW THE SPECIFIED ELEVATION SHALL BE LEFT UNDISTURBED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. EXCAVATION SHALL BE PAID FOR UNDER ITEM 203.02, UNCLASSIFIED EXCAVATION AND DISPOSAL.
4. GRADE TO THE DEPTH (ELEVATION) SPECIFIED IN THE CONSTRUCTION DOCUMENTS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. REMOVE ALL SEDIMENT FROM THE SWALE FOLLOWING EXCAVATION.
6. MATERIAL EXCAVATED FROM THE SWALE SHALL BE DISPOSED OF AT LOCATIONS DESIGNATED BY THE ENGINEER.
7. CLEAN, WASHED TYPE 1 STONE SHALL BE PLACED IN THE BOTTOM OF THE DRY SWALE TO THE DEPTH SPECIFIED IN THE CONSTRUCTION DOCUMENTS. GRAVEL SHOULD BE PLACED IN LIFTS AND LIGHTLY COMPACTED WITH PLATE COMPACTORS.
8. THE PERFORATED PIPE (UNDERDRAIN) SHALL BE LAID DIRECTLY ON A THIN GRAVEL BED. GRADE AND ALIGNMENT SHALL NOT VARY FROM THE PRESCRIBED GRADE BY MORE THAN 0.03 FEET AT ANY POINT. THE JOINTS BETWEEN SECTIONS OF PIPE SHALL BE CONNECTED IN A FASHION ACCEPTABLE TO ENGINEER. ONCE THE PIPE IS IN PLACE, IT SHALL BE COVERED IMMEDIATELY WITH GRAVEL MATERIAL AS SPECIFIED IN THE CONSTRUCTION DOCUMENTS. THE GRAVEL MATERIAL SHALL BE OF UNIFORM DEPTH ON BOTH SIDES OF THE PIPE.
9. THE SWALE SHALL RECEIVE 4" TOPSOIL (ITEM 610.1403), TURF ESTABLISHMENT (ITEM 610.1602) AND ROLLED EROSION CONTROL PRODUCT. ROLLED EROSION CONTROL PRODUCT SHALL BE CLASS II, TYPE C BLANKETS, ITEM 209.190301.
10. TURF ESTABLISHMENT AND ROLLED EROSION CONTROL PRODUCT PLACEMENT SHALL BE COMPLETED WITHIN 48 HOURS OF FINAL GRADING.

DRY SWALE CROSS-SECTION (WITH CHECKDAM)

NOT TO SCALE

DRY SWALE TABLE				
DRY SWALE	WIDTH	LENGTH	NORTHING	EASTING
DS-1	6'-0"	210'-0"	1111330.161	1397338.842

NOTE:
1. NORTHING AND EASTING ARE TO THE BEGINNING OF THE DRY SWALE.



NOTES:
1. COST OF CLEANOUT SHALL BE INCLUDED WITH PRICE BID FOR ITEM 605.1603, 8" PERFORATED PVC UNDERDRAIN.
2. USE PERFORMANCE ENGINEERED MIXTURE (PEM) PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH TABLE 2 OF MATERIALS PROCEDURE (MP) 501-2 MIX DESIGN AND APPROVAL PROCEDURE FOR PERFORMANCE ENGINEERED MIXTURES-STRUCTURAL CONCRETE.

CLEAN OUT DETAIL

NOT TO SCALE

DRY SWALE ALIGNMENT						
POINT TYPE		STATION/ DISTANCE		DIRECTION	NORTHING	EASTING
POB		0+00.00			1111312.33	1397329.77
		20.00		N 26°57'48.1" E		
PI		0+20.00			1111330.16	1397338.84
		201.01		N 26°57'48.1" E		
PC		2+21.01			1111509.32	1397429.99
	Radius:	100	Delta:	28°29'19.85" Left		
	Length:	49.72	DOC (Arc):	57°17'44.81"		
	Chord:	49.210	Direction:	N 12°43'08.18" E		
	Tangent:	25.390	Direction:	N 01°31'31.75" W		
CC					1111554.67	1397340.86
PT		2+70.74			1111557.33	1397440.82
		175.69		N 01°31'31.75" W		
POE		4+46.43			1111732.96	1397436.14

DESIGN SUPERVISOR: JMC
DESIGNED BY: JMC
DRAFTED BY: AA
CHECKED BY: JMC

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC220131664-1

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	STORMWATER MANAGEMENT DETAIL
CONTRACT NUMBER:	TAB 25-17B
DATE:	8/15/2025
DRAWING NUMBER:	SWD-1

GENERAL NOTES

1. DESIGN SPECIFICATIONS: NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD DESIGN SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR OVERHEAD SIGN STRUCTURES, 2007 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR FOUNDATIONS AT 28 DAYS: f'c = 3,000 psi).
2. CONSTRUCTION SPECIFICATIONS: NYSDOT STANDARD SPECIFICATIONS - CONSTRUCTION AND MATERIALS WITH ALL PROVISIONS IN ACCORDANCE WITH THE PROJECT PROPOSAL.
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 PROPORTIONALLY AND ARE FULLY DIMENSIONED.
4. ALL SHOP DRAWINGS FOR THIS PROJECT SHALL BE PREPARED IN U.S. CUSTOMARY UNITS.
5. NO KNOWN ASBESTOS CONTAINING MATERIALS ARE BELIEVED TO EXIST AND/OR THE WORK TO BE PERFORMED AT THE OVERHEAD SIGN STRUCTRUE DOES NOT REQUIRE THE DISTURBANCE, DESTRUCTION OR REMOVAL OF ANY OF THESE MATERIALS. IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS ARE NOT TO BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR DISTURB OR ENCOUNTER ANY SUCH MATERIALS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE ENGINEER BEFORE PROCEEDING.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL FOR STRUCTURAL SHAPES, PLATES, AND BARS SHALL CONFORM TO ASTM A709, GRADE 50.
2. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 55 (HOT-DIP GALVANIZED).
3. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325 (TYPE 1, HOT-DIP GALVANIZED).
4. THE COST OF CLEANING THE STEEL IN THE FABRICATION SHOP AND THE FIELD SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SINGLE SPAN SIGN STRUCTURE ITEM.

GALVANIZING NOTES

1. ALL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH THE SINGLE SPAN SIGN STRUCTURE ITEM.
2. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ITEM 644.11- ANCHOR BOLTS.
3. REINFORCING STEEL BARS SHALL BE GALVANIZED AND FABRICATED IN ACCORDANCE WITH ASTM A767, AND MEET THE REQUIREMENTS OF NYSDOT MATERIAL SPECIFICATION 709-11.
4. HIGH STRENGTH BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE SINGLE SPAN SIGN STRUCTURE ITEM.
5. DRILLED HOLES SHALL BE CLEANED OF ALL EXCESS MATERIAL THAT PREVENTS THE PROPER INSTALLATION OF THE BOLTS.

STEEL ERECTION NOTES

1. THE CONTRACTOR SHALL PROVIDE FOR THE STABILITY OF STRUCTURAL STEEL DURING ALL PHASES OF ERECTION AND CONSTRUCTION, AS PROVIDED IN SECTION 2, SUBSECTION 204 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). THE MEANS AND METHODS USED BY THE CONTRACTOR SHALL BE DOCUMENTED ON THE ERECTION DRAWINGS AND INCLUDED IN THE SUPPORTING STABILITY CALCULATIONS. THE ERECTION DRAWINGS AND STABILITY CALCULATIONS SHALL BE SEALED BY A REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH THE SCM.

REMOVAL NOTES

1. RECORD PLANS COVERING OVERHEAD SIGN STRUCTURES WILL BE AVAILABLE FOR REVIEW FOR ALL PROSPECTIVE BIDDERS ON THE AUTHORITY'S WEBSITE PRIOR TO THE LETTING DATE.
2. UPON REMOVAL OF THE EXISTING SPAN OSS, THE EXISTING FOUNDATION SHALL BE REMOVED TO A DEPTH OF 1'-0" BELOW EXISTING GRADE AND THE SURFACE SHALL BE RESTORED TO MATCH THE SURROUNDING AREA, AOBE. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE SIGN REMOVAL ITEM.
3. THE EXISTING SPAN OSS AND SIGN PANELS SHALL REMAIN IN PLACE AND FULLY FUNCTIONAL UNTIL THE REPLACEMENT OSS IS ERECTED, TESTED, AND ACCEPTED BY THE AUTHORITY.

RECONSTRUCTION NOTES

1. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL. THE COST OF FIELD VERIFYING DIMENSIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SIGN STRUCTURE ITEMS.
2. 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 AUTHORITY, 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 AUTHORITY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
3. WHEN ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS.
4. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL TO THE AREA BELOW EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE STOPPED UNTIL ADEQUATE PROTECTION IS PROVIDED.

TEST PIT NOTES

1. WHERE SHOWN, OR WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PERFORM A TEST PIT (ITEM 206.05) TO CONFIRM THE SUITABILITY OF THE PROPOSED SHAFT LOCATION WITH REGARD TO AVOIDING UTILITIES. THE TEST PITS SHALL BE EXCAVATED TO THE MINIMUM DEPTH NECESSARY TO REVEAL POTENTIAL UTILITY CONFLICTS AS IT IS DESIRED TO LEAVE THE SOIL AT THESE LOCATIONS AS UNDISTURBED AS POSSIBLE FOR THE SHAFT INSTALLATION. TEST PITS SHALL BE PERFORMED PRIOR TO SHOP DRAWING SUBMISSION AND PRIOR TO FABRICATION OF THE OVERHEAD SIGN STRUCTURES.
2. THE CONTRACTOR SHALL ONLY BE PAID ONCE PER LOCATION SHOWN IN THE EVENT WHERE MULTIPLE ATTEMPTS ARE REQUIRED TO LOCATE THE UNDERGROUND FACILITY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. LOCATIONS SHOWN ARE APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO REQUEST STAKE-OUT AND TO VERIFY ALL UNDERGROUND FACILITIES WITHIN THE LIMITS OF THE PROPOSED WORK.
4. MISCELLANEOUS TEST PITS SHALL BE COMPLETED, AS APPROVED BY THE ENGINEER, IN ORDER TO DETERMINE LOCATIONS OF EXISTING UNDERGROUND FACILITIES WHERE STAKE-OUT SHOWS A POTENTIAL CONFLICT WITH THE PROPOSED WORK.

TEST PIT LOCATION TABLE

LOCATION	STRUCTURE TYPE	ITEM 206.05 (EACH)
S362.44	SPAN	2
SEE NOTE 4		2
	TOTAL	4

DESIGNED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DESIGN SUPERVISOR: M. BEDFORD

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · MATTHEW CLARENCE BEDFORD · 103716 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

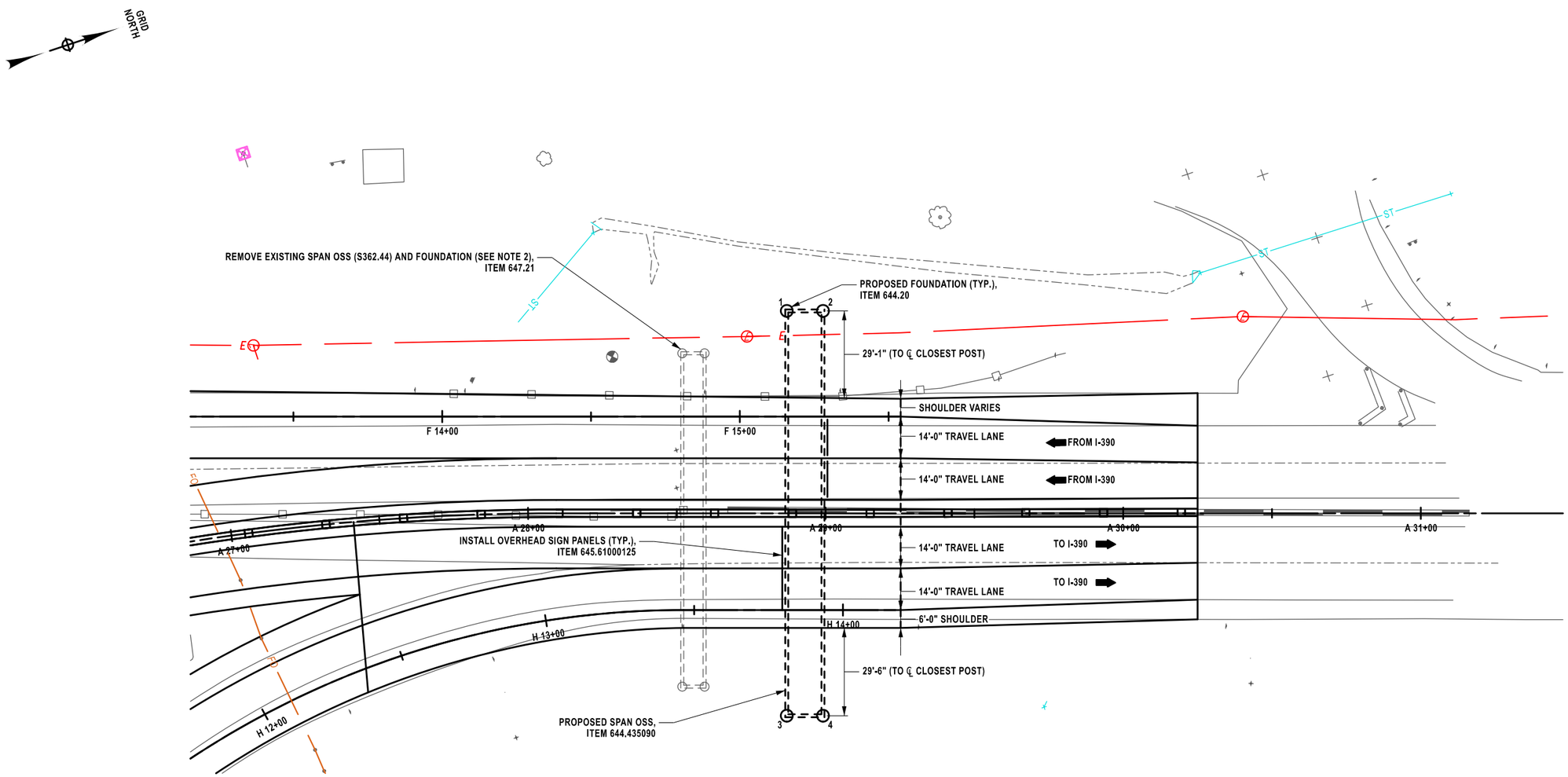
NEW YORK STATE Thruway Authority

PDG Poppli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: OVERHEAD SIGN STRUCTURES SPAN STRUCTURES GENERAL NOTES

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: OSN-01

PROPOSED FOUNDATION ℄ COORDINATES	
FOUNDATION NO.	COORDINATES
1	N = 1112602.1819 E = 1397467.5153
2	N = 1112613.7392 E = 1397471.3175
3	N = 1112559.6808 E = 1397596.7037
4	N = 1112571.2381 E = 1397600.5059



PLAN
LOCATION S362.44
SCALE: 1" = 40'-0"

NOTES:

1. THE EXISTING SPAN OSS AND SIGN PANELS SHALL REMAIN IN PLACE AND FULLY FUNCTIONAL UNTIL THE REPLACEMENT OSS IS ERECTED, TESTED, AND ACCEPTED BY THE AUTHORITY.
2. UPON REMOVAL OF THE EXISTING SPAN OSS, THE EXISTING FOUNDATION SHALL BE REMOVED TO A DEPTH OF 1'-0" BELOW EXISTING GRADE AND THE SURFACE SHALL BE RESTORED TO MATCH THE SURROUNDING AREA, AOBE, COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE SIGN REMOVAL ITEM.

20 0 20 40 60 80'
1" = 40'

CHECKED BY: S. LOFORTE
DRAFTED BY: N. ARTIS
DESIGNED BY: N. ARTIS
DESIGN SUPERVISOR: M. BEDFORD

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · MATTHEW CLARENCE BEDFORD · 103716 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

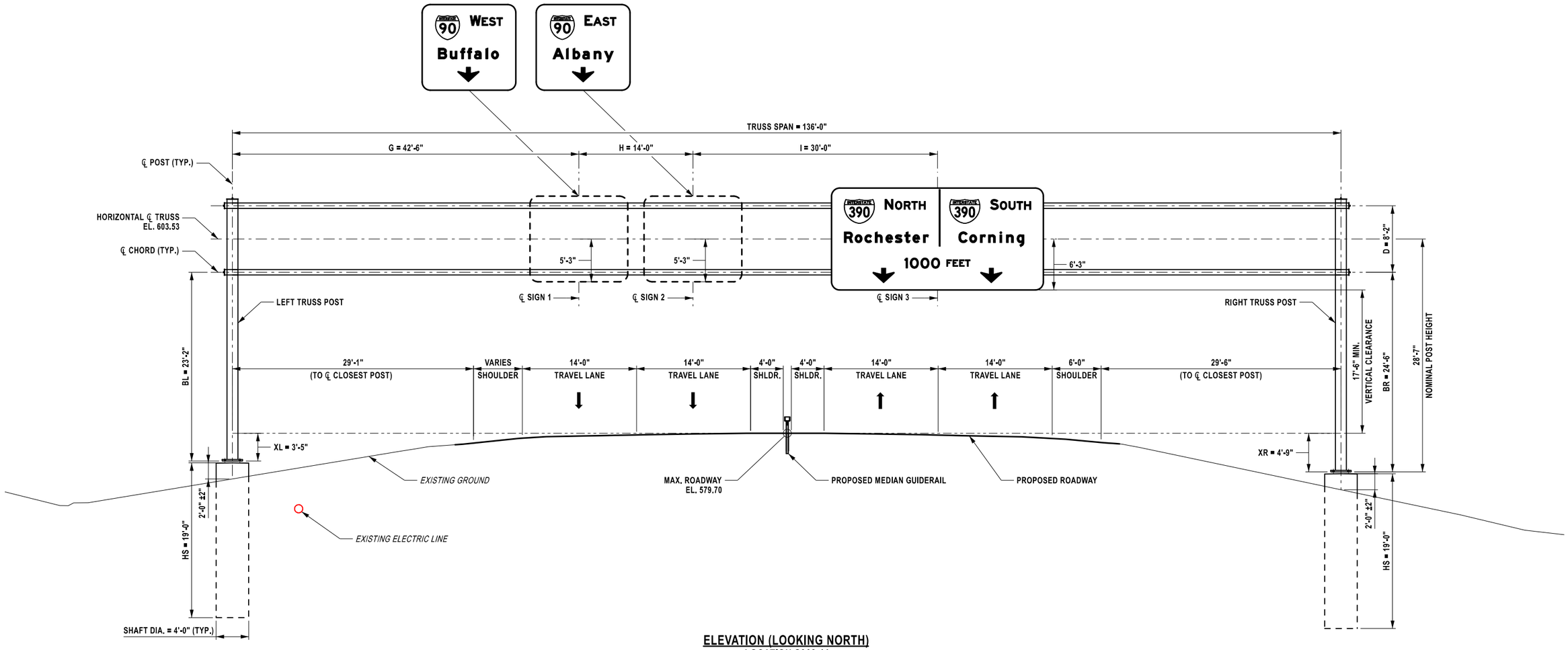
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	OVERHEAD SIGN STRUCTURES GENERAL PLAN LOCATION S362.44
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	OSP-01

DESIGNED BY: N. ARTIS
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DESIGN SUPERVISOR: M. BEDFORD



ELEVATION (LOOKING NORTH)
LOCATION S362.44
NOT TO SCALE

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · MATTHEW CLARENCE BEDFORD · 103716 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO THE FABRICATION OF THE SIGN STRUCTURE.
2. SPAN TRUSS DIAGONALS, CROSS BRACING AND SPLICES NOT SHOWN FOR CLARITY.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

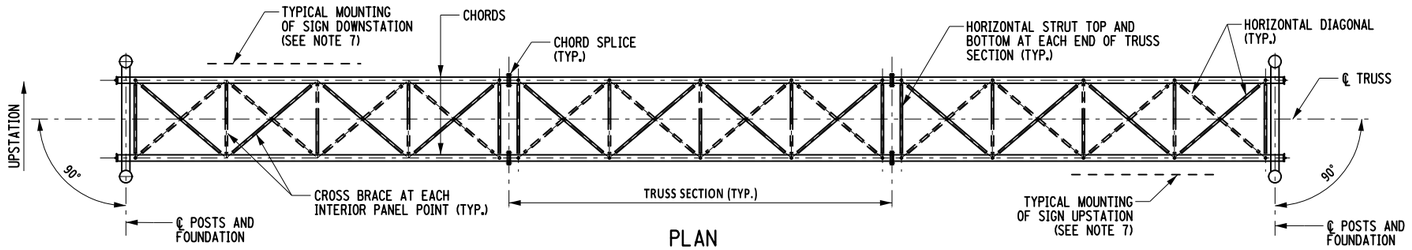
TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	OVERHEAD SIGN STRUCTURES ELEVATION LOCATION S362.44
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	OSP-02

SPAN STRUCTURE TABLE

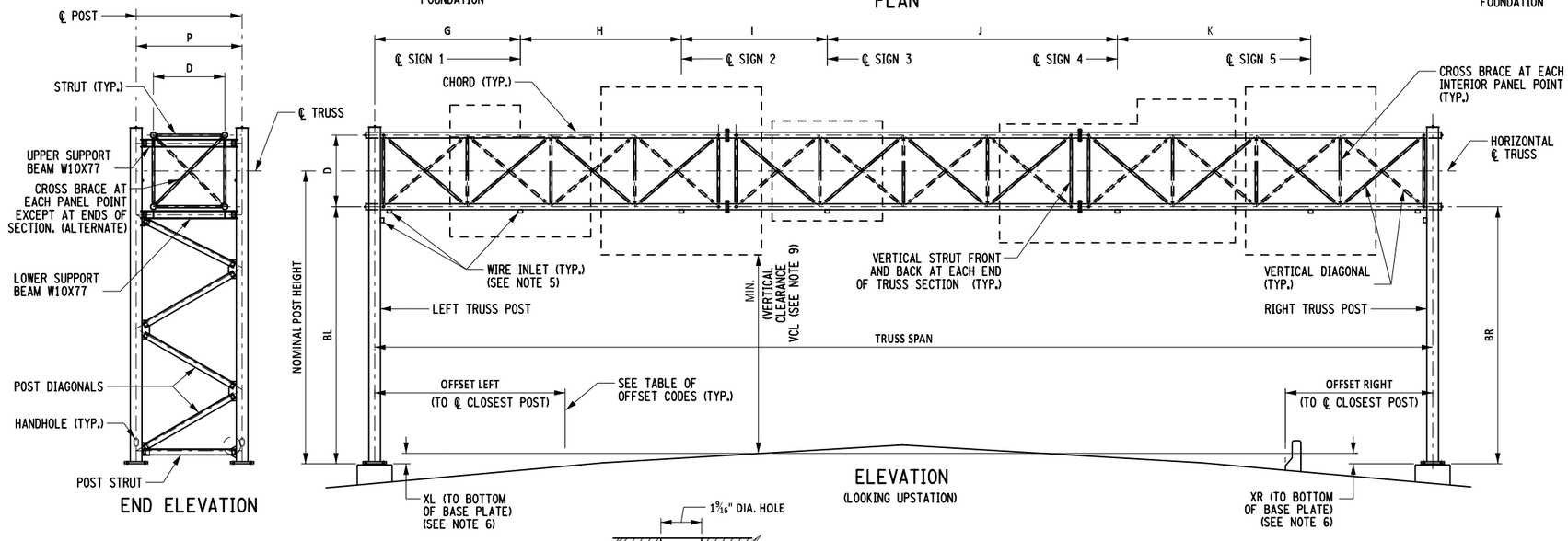
S.I.N.	ITEM NO.	LOC. NO. (MP)	STRUCTURE TYPE (NOTE 12)	TRUSS SPAN (ft.)	TOTAL SIGN AREA (ft.)^2	NOMINAL POST HEIGHT (ft.) (NOTE 8)	MIN. VCL (ft.) (NOTE 9)	POSTS												SIGNS																CONSTRUCTED FOUNDATION TYPE (SEE NOTE 13)	
								LEFT						RIGHT						SIGN 1				SIGN 2				SIGN 3				SIGN 4				SIGN 5				
								SUBSTRATE SOIL/ROCK (NOTE 10)	BL (ft.)	XL (ft.)	OFF-SET (ft.)	OFF-SET CODE	FOUND. TYPE (NOTE 11)	SUBSTRATE SOIL/ROCK (NOTE 10)	BR (ft.)	XR (ft.)	OFF-SET (ft.)	OFF-SET CODE	FOUND. TYPE (NOTE 11)	TEXT NO.	MIN NO. Z BARS (NOTE 4) (TYP.)	G (ft.)	US OR DS (NOTE 7) (TYP.)	TEXT NO.	MIN NO. Z BARS	H (ft.)	US OR DS	TEXT NO.	MIN NO. Z BARS	I (ft.)	US OR DS	TEXT NO.	MIN NO. Z BARS	H (ft.)	US OR DS	TEXT NO.	MIN NO. Z BARS	I (ft.)	US OR DS	LEFT	RIGHT
S362.44	644.435090	362.44	S45-60-11	136'-0"	577.00	28'-7"	17'-6"	SOIL	23'-2"	3'-5"	29'-1"	ES	SHAFT	SOIL	24'-6"	4'-9"	29'-6"	ES	SHAFT	4-1	2	42'-6"	DS	4-2	2	14'-0"	DS	4-3	5	30'-0"	US								

SPAN STRUCTURE TABLE (CONT'D)

S.I.N.	REMARKS
S 362.44	STANDARD FOUNDATION

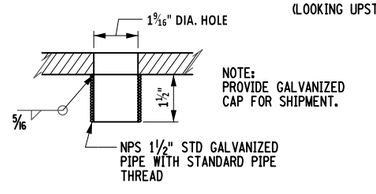


PLAN



END ELEVATION

ELEVATION
(LOOKING UPSTATION)



CHORD WIRE INLET DETAIL

OFFSET CODES			
EP	EDGE OF PAVEMENT	FB	TRAFFIC FACE OF BARRIER BASE
ES	EDGE OF SHOULDER	FG	FRONT FACE OF GUIDE RAIL
CF	CURB FACE	CL	HIGHWAY CENTER LINE

NOTES:

1. THESE STRUCTURES ARE DESIGNED IN ACCORDANCE WITH NYSDOT STANDARD DESIGN SPECIFICATIONS FOR OVERHEAD SIGN STRUCTURES. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 644. STEEL FABRICATION SHALL BE IN ACCORDANCE WITH THE NYS STEEL CONSTRUCTION MANUAL.
2. THE WEB MEMBERS IN EACH FACE OF THE TRUSS SHALL FORM CONTINUOUS TRUSSING FROM POST TO POST AND THERE SHALL BE AN EVEN NUMBER OF PANELS IN THE SPAN.
3. FOR VERTICAL ORIENTATION OF SIGN PANELS, SEE DWG. NO. OSD-09.
4. FOR SIGN PANEL ATTACHMENT DETAILS AND SPACING OF Z-BARS, SEE DWG. NO. OSD-09.
5. INSTALL WIRE INLETS IN BOTTOM CHORD (FRONT AND/OR BACK, AS NECESSARY) AT ℄ OF EACH SIGN AND AT FACE OF POST. IF SIGN LIGHTING IS NOT INCLUDED IN THE CONTRACT, WIRE INLETS SHALL BE OMITTED.
6. THE CONTRACTOR SHALL ESTABLISH THE TOP OF PEDESTAL OR SHAFT ELEVATIONS BASED ON THE INFORMATION SHOWN ON THE CONTRACT PLANS AND DATA DERIVED FROM FIELD SURVEYS. SPAN LENGTHS AND DIMENSIONS XL AND XR SHALL BE FIELD-VERIFIED PRIOR TO THE PLACEMENT OF THE FOUNDATIONS OR FABRICATION OF THE SIGN STRUCTURES AND ELEVATIONS AND DIMENSIONS SHALL BE PRESENTED ON THE SHOP DRAWINGS. A NEGATIVE XL OR XR INDICATES THAT THE BOTTOM OF BASE PLATE IS ABOVE THE POINT OF MINIMUM VERTICAL CLEARANCE. IF FIELD-VERIFIED SPAN LENGTHS, XL OR XR DIFFER FROM INFORMATION SHOWN ON THE CONTRACT PLANS, THE ENGINEER SHALL BE CONSULTED TO DETERMINE WHETHER DESIGN CHANGES ARE NEEDED.
7. SIGN MOUNTING LOCATION IS INDICATED BY US (UPSTATION) OR DS (DOWNSTATION) IN THE SPAN STRUCTURE TABLE (SEE SCHEMATIC IN PLAN VIEW).
8. NOMINAL POST HEIGHT IS THE LARGER OF LEFT OR RIGHT POSTS.
9. THE SIGN STRUCTURE HEIGHT IS DESIGNED TO PROVIDE THE MINIMUM VERTICAL CLEARANCE (VCL) INDICATED BETWEEN THE SIGN PANELS AND ROADWAY SURFACE, INCLUDING LIGHTING OR OTHER ATTACHMENTS, AT ANY POINT OVER THE ENTIRE ROADWAY WIDTH. THE REQUIRED MINIMUM VCL IS 1'-0" GREATER THAN THAT REQUIRED FOR NEW OVERPASS STRUCTURES ALONG THE ROUTE.
10. SUBSTRATE TYPE SHALL BE DESIGNATED S (SOIL), R (ROCK), OR '-' (SPECIAL FOUNDATION). FOR SHAFT FOUNDATIONS, WHEN ROCK IS SPECIFIED, THE TOTAL SHAFT LENGTH AND THE SHAFT LENGTH IN ROCK SHALL BE INDICATED IN PARENTHESIS (SEE DETAIL ON DWG. NO. OSD-03). FOR FOOTING DEPTH IN SOIL OR ROCK SEE FOUNDATION TABLE ON DWG. NO. OSD-03.
11. FOUNDATION TYPE SHALL BE DESIGNATED 'FOOTING', 'SHAFT', OR 'SPECIAL'.
12. FOR STANDARD SPAN STRUCTURES SELECTION TABLE AND DIMENSIONS D AND P, SEE DWG. NO. OSD-02.
13. FILLED OUT BY E.I.C. AT TIME OF AS-BUILTS.
14. REFER TO OSS ELEVATION AND SIGN DATA SHEET DRAWINGS FOR SIGN INFORMATION.

ALTERED ON:

SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

STATE OF NEW YORK
MATTHEW CLARENCE BEDFORD
103716
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
OVERHEAD SIGN STRUCTURES
SPAN STRUCTURES

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: OSD-01

CHECKED BY: S.LOFORTE
DRAFTED BY: N.ARTIS
DESIGNED BY: N.ARTIS
DESIGN SUPERVISOR: M.BEDFORD

STANDARD SPAN STRUCTURES

STRUCTURE TYPE	MAX. SPAN LENGTH (ft.)	MAX. SIGN AREA ($ft.^2$)	CHORD SPACING D (ft.)	POST SPACING P (ft.)	TRUSS			POST					BASE PLATE TYPE	FOUND. TYPE	MINIMUM PEDESTAL OR SHAFT DIA. (ft.)	SHAFT LENGTH HS (ft.)	SHAFT CONC. QTY. ($ft.^3$)
					CHORD NPS	DIAGONAL NPS	TRUSS WEIGHT (k)	MAX. NOMINAL POST HEIGHT (ft.)	POST NPS	WALL THICKNESS (in.)	DIAGONAL ANGLE	END FRAMES WEIGHT (k)					
S15-30-9	49'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	7.58	29'-0"	10 STD	0.365	L8"x8"x1/2"	11.98	BP-10	S-A	3'-6"	15'-0"	144
S15-30-11	49'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	7.58	36'-0"	12 STD	0.375	L8"x8"x1/2"	15.07	BP-12	S-B	3'-6"	17'-0"	164
S15-30-13	49'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	7.58	42'-0"	16 STD	0.375	L8"x8"x1/2"	19.34	BP-16	S-B	4'-0"	15'-0"	188
S15-60-9	49'-0"	645	6'-7"	9'-10"	5 STD	3 STD	8.32	29'-0"	12 STD	0.375	L8"x8"x1/2"	13.14	BP-12	S-B	3'-6"	17'-0"	164
S15-60-11	49'-0"	645	6'-7"	9'-10"	5 STD	3 STD	8.32	36'-0"	14 STD	0.375	L8"x8"x1/2"	15.84	BP-14	S-C	3'-6"	19'-0"	183
S15-60-13	49'-0"	645	6'-7"	9'-10"	5 STD	3 STD	8.32	42'-0"	16 STD	0.375	L8"x8"x1/2"	19.34	BP-16	S-D	4'-0"	19'-0"	239
S20-30-9	65'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	9.53	29'-0"	10 STD	0.365	L8"x8"x1/2"	11.98	BP-10	S-A	3'-6"	15'-0"	144
S20-30-11	65'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	9.53	36'-0"	12 STD	0.375	L8"x8"x1/2"	15.07	BP-12	S-B	3'-6"	17'-0"	164
S20-30-13	65'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	9.53	42'-0"	16 STD	0.375	L8"x8"x1/2"	19.34	BP-16	S-C	4'-0"	17'-0"	214
S20-60-9	65'-0"	645	6'-7"	9'-10"	6 STD	3 STD	11.62	29'-0"	12 STD	0.375	L8"x8"x1/2"	13.14	BP-12	S-C	3'-6"	19'-0"	183
S20-60-11	65'-0"	645	6'-7"	9'-10"	6 STD	3 STD	11.62	36'-0"	14 STD	0.375	L8"x8"x1/2"	15.84	BP-14	S-D	3'-6"	20'-0"	192
S20-60-13	65'-0"	645	6'-7"	9'-10"	6 STD	3 STD	11.62	42'-0"	16 STD	0.375	L8"x8"x1/2"	19.34	BP-16	S-E	4'-0"	20'-0"	251
S25-30-9	82'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	11.84	29'-0"	10 STD	0.365	L8"x8"x1/2"	11.98	BP-10	S-A	3'-6"	15'-0"	144
S25-30-11	82'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	11.84	36'-0"	12 STD	0.375	L8"x8"x1/2"	15.07	BP-12	S-B	3'-6"	17'-0"	164
S25-30-13	82'-0"	322	6'-7"	9'-10"	5 STD	2.5 STD	11.84	42'-0"	16 STD	0.375	L8"x8"x1/2"	19.34	BP-16	S-C	4'-0"	17'-0"	214
S25-60-9	82'-0"	645	6'-7"	9'-10"	6 STD	3 STD	14.44	29'-0"	12 STD	0.375	L8"x8"x1/2"	13.14	BP-12	S-C	3'-6"	19'-0"	183
S25-60-11	82'-0"	645	6'-7"	9'-10"	6 STD	3 STD	14.44	36'-0"	16 STD	0.375	L8"x8"x1/2"	17.07	BP-16	S-D	4'-0"	19'-0"	239
S25-60-13	82'-0"	645	6'-7"	9'-10"	6 STD	3 STD	14.44	42'-0"	18 STD	0.375	L8"x8"x1/2"	20.77	BP-18	S-E	4'-0"	20'-0"	251
S30-30-9	98'-0"	322	6'-7"	9'-10"	6 STD	2.5 STD	15.61	29'-0"	10 STD	0.365	L8"x8"x1/2"	11.98	BP-10	S-A	3'-6"	15'-0"	144
S30-30-11	98'-0"	322	6'-7"	9'-10"	6 STD	2.5 STD	15.61	36'-0"	12 STD	0.375	L8"x8"x1/2"	15.07	BP-12	S-B	3'-6"	17'-0"	164
S30-30-13	98'-0"	322	6'-7"	9'-10"	6 STD	2.5 STD	15.61	42'-0"	16 STD	0.375	L8"x8"x1/2"	19.34	BP-16	S-C	4'-0"	17'-0"	214
S30-60-9	98'-0"	645	6'-7"	9'-10"	8 STD	3 STD	20.84	29'-0"	12 STD	0.375	L8"x8"x1/2"	13.14	BP-12	S-C	3'-6"	19'-0"	183
S30-60-11	98'-0"	645	6'-7"	9'-10"	8 STD	3 STD	20.84	36'-0"	16 STD	0.375	L8"x8"x1/2"	17.07	BP-16	S-D	4'-0"	19'-0"	239
S30-60-13	98'-0"	645	6'-7"	9'-10"	8 STD	3 STD	20.84	42'-0"	18 STD	0.375	L8"x8"x1/2"	20.77	BP-18	S-F	4'-0"	22'-0"	276
S30-90-9	98'-0"	968	6'-7"	9'-10"	8 STD	3 STD	20.84	29'-0"	16 STD	0.375	L8"x8"x9/16"	15.18	BP-16	S-D	4'-0"	19'-0"	239
S30-90-11	98'-0"	968	6'-7"	9'-10"	8 STD	3 STD	20.84	36'-0"	18 STD	0.375	L8"x8"x9/16"	18.74	BP-18	S-F	4'-0"	22'-0"	276
S30-90-13	98'-0"	968	6'-7"	9'-10"	8 STD	3 STD	20.84	42'-0"	18 XS	0.500	L8"x8"x9/16"	25.78	BP-18	S-H	4'-0"	23'-0"	289
S35-30-9	114'-0"	322	6'-7"	9'-10"	6 STD	3 STD	19.23	29'-0"	10 STD	0.365	L8"x8"x1/2"	11.98	BP-10	S-B	3'-6"	17'-0"	164
S35-30-11	114'-0"	322	6'-7"	9'-10"	6 STD	3 STD	19.23	36'-0"	12 STD	0.375	L8"x8"x1/2"	15.07	BP-12	S-B	3'-6"	17'-0"	164
S35-30-13	114'-0"	322	6'-7"	9'-10"	6 STD	3 STD	19.23	42'-0"	16 STD	0.375	L8"x8"x1/2"	19.34	BP-16	S-C	4'-0"	17'-0"	214
S35-60-9	114'-0"	645	6'-7"	9'-10"	8 STD	3 STD	23.90	29'-0"	14 STD	0.375	L8"x8"x1/2"	14.17	BP-14	S-C	3'-6"	19'-0"	183
S35-60-11	114'-0"	645	6'-7"	9'-10"	8 STD	3 STD	23.90	36'-0"	16 STD	0.375	L8"x8"x1/2"	17.52	BP-16	S-E	4'-0"	20'-0"	251
S35-60-13	114'-0"	645	6'-7"	9'-10"	8 STD	3 STD	23.90	42'-0"	18 STD	0.375	L8"x8"x1/2"	21.28	BP-18	S-F	4'-0"	22'-0"	276
S35-90-9	114'-0"	968	6'-7"	9'-10"	8 STD	4 STD	26.93	29'-0"	16 STD	0.375	L8"x8"x9/16"	15.56	BP-16	S-E	4'-0"	20'-0"	251
S35-90-11	114'-0"	968	6'-7"	9'-10"	8 STD	4 STD	26.93	36'-0"	18 STD	0.375	L8"x8"x9/16"	19.17	BP-18	S-F	4'-0"	22'-0"	276
S35-90-13	114'-0"	968	6'-7"	9'-10"	8 STD	4 STD	26.93	42'-0"	18 XS	0.500	L8"x8"x9/16"	26.27	BP-18	S-H	4'-0"	23'-0"	289
S40-30-9	131'-0"	322	8'-2"	12'-2"	6 STD	3 STD	23.73	29'-0"	10 STD	0.365	L8"x8"x1/2"	13.00	BP-10	S-B	3'-6"	17'-0"	164
S40-30-11	131'-0"	322	8'-2"	12'-2"	6 STD	3 STD	23.73	36'-0"	12 STD	0.375	L8"x8"x1/2"	16.29	BP-12	S-C	3'-6"	17'-0"	164
S40-30-13	131'-0"	322	8'-2"	12'-2"	6 STD	3 STD	23.73	42'-0"	16 STD	0.375	L8"x8"x1/2"	20.76	BP-16	S-D	4'-0"	19'-0"	239
S40-60-9	131'-0"	645	8'-2"	12'-2"	8 STD	3 STD	29.07	29'-0"	14 STD	0.375	L8"x8"x9/16"	15.29	BP-14	S-D	3'-6"	19'-0"	183
S40-60-11	131'-0"	645	8'-2"	12'-2"	8 STD	3 STD	29.07	36'-0"	16 STD	0.375	L8"x8"x9/16"	18.84	BP-16	S-E	4'-0"	19'-0"	239
S40-60-13	131'-0"	645	8'-2"	12'-2"	8 STD	3 STD	29.07	42'-0"	18 STD	0.375	L8"x8"x9/16"	22.80	BP-18	S-F	4'-0"	20'-0"	251
S40-90-9	131'-0"	968	8'-2"	12'-2"	8 STD	4 STD	33.14	29'-0"	16 STD	0.375	L8"x8"x5/8"	16.73	BP-16	S-E	4'-0"	19'-0"	239
S40-90-11	131'-0"	968	8'-2"	12'-2"	8 STD	4 STD	33.14	36'-0"	18 STD	0.375	L8"x8"x5/8"	20.56	BP-18	S-G	4'-0"	22'-0"	276
S40-90-13	131'-0"	968	8'-2"	12'-2"	8 STD	4 STD	33.14	42'-0"	20 STD	0.375	L8"x8"x5/8"	24.81	BP-20	S-I	4'-0"	23'-0"	289

STANDARD SPAN STRUCTURES

STRUCTURE TYPE	MAX. SPAN LENGTH (ft.)	MAX. SIGN AREA ($ft.^2$)	CHORD SPACING D (ft.)	POST SPACING P (ft.)	TRUSS			POST					BASE PLATE TYPE	FOUND. TYPE	MINIMUM PEDESTAL OR SHAFT DIA. (ft.)	SHAFT LENGTH HS (ft.)	SHAFT CONC. QTY. ($ft.^3$)
					CHORD NPS	DIAGONAL NPS	TRUSS WEIGHT (k)	MAX. NOMINAL POST HEIGHT (ft.)	POST NPS	WALL THICKNESS (in.)	DIAGONAL ANGLE	END FRAMES WEIGHT (k)					
S45-30-9	147'-0"	322	8'-2"	12'-2"	8 STD	3 STD	31.78	29'-0"	10 STD	0.365	L8"x8"x1/2"	13.00	BP-10	S-B	3'-6"	17'-0"	164
S45-30-11	147'-0"	322	8'-2"	12'-2"	8 STD	3 STD	31.78	36'-0"	12 STD	0.375	L8"x8"x1/2"	16.29	BP-12	S-C	3'-6"	17'-0"	164
S45-30-13	147'-0"	322	8'-2"	12'-2"	8 STD	3 STD	31.78	42'-0"	16 STD	0.375	L8"x8"x1/2"	20.76	BP-16	S-D	4'-0"	19'-0"	239
S45-60-9	147'-0"	645	8'-2"	12'-2"	8 STD	4 STD	36.05	29'-0"	14 STD	0.375	L8"x8"x9/16"	15.29	BP-14	S-D	3'-6"	19'-0"	183
S45-60-11	147'-0"	645	8'-2"	12'-2"	8 STD	4 STD	36.05	36'-0"	16 STD	0.375	L8"x8"x9/16"	18.84	BP-16	S-E	4'-0"	19'-0"	239
S45-60-13	147'-0"	645	8'-2"	12'-2"	8 STD	4 STD	36.05	42'-0"	18 STD	0.375	L8"x8"x9/16"	22.81	BP-18	S-G	4'-0"	22'-0"	276
S45-90-9	147'-0"	968	8'-2"	12'-2"	10 STD	4 STD	43.50	29'-0"	16 STD	0.375	L8"x8"x5/8"	16.73	BP-16	S-F	4'-0"	20'-0"	251
S45-90-11	147'-0"	968	8'-2"	12'-2"	10 STD	4 STD	43.50	36'-0"	18 STD	0.375	L8"x8"x5/8"	20.56	BP-18	S-G	4'-0"	22'-0"	276
S45-90-13	147'-0"	968	8'-2"	12'-2"	10 STD	4 STD	43.50	42'-0"	20 STD	0.375	L8"x8"x5/8"	24.81	BP-20	S-I	4'-0"	23'-0"	289
S50-30-9	164'-0"	322	8'-2"	12'-2"	8 STD	4 STD	39.68	29'-0"	10 STD	0.365	L8"x8"x1/2"	13.00	BP-10	S-B	3'-6"	17'-0"	164
S50-30-11	164'-0"	322	8'-2"	12'-2"	8 STD	4 STD	39.68	36'-0"	12 STD	0.375	L8"x8"x1/2"	16.29	BP-12	S-C	3'-6"	17'-0"	164
S50-30-13	164'-0"	322	8'-2"	12'-2"	8 STD	4 STD	39.68	42'-0"	16 STD	0.375	L8"x8"x1/2"	20.76	BP-16	S-D	4'-0"	19'-0"	239
S50-60-9	164'-0"	645	8'-2"	12'-2"	10 STD	4 STD	47.95	29'-0"	14 STD	0.375	L8"x8"x9/16"	15.29	BP-14	S-D	3'-6"	19'-0"	183
S50-60-11	164'-0"	645	8'-2"	12'-2"	10 STD	4 STD	47.95	36'-0"	16 STD	0.375	L8"x8"x9/16"	18.84	BP-16	S-F	4'-0"	20'-0"	251
S50-60-13	164'-0"	645	8'-2"	12'-2"	10 STD	4 STD	47.95	42'-0"	18 STD	0.375	L8"x8"x9/16"	22.81	BP-18	S-G	4'-0"	22'-0"	276
S50-90-9	164'-0"	968	8'-2"	12'-2"	10 STD	4 STD	47.95	29'-0"	18 STD	0.375	L8"x8"x3/4"	18.55	BP-18	S-F	4'-0"	20'-0"	251
S50-90-11	164'-0"	968	8'-2"	12'-2"	10 STD	4 STD	47.95	36'-0"	20 STD	0.375	L8"x8"x3/4"	22.74	BP-20	S-H	4'-0"	22'-0"	276
S50-90-13	164'-0"	968	8'-2"	12'-2"	10 STD	4 STD	47.95	42'-0"	20 XS	0.500	L8"x8"x3/4"	31.00	BP-20	S-J	4'-0"	23'-0"	289
S55-30-9	180'-0"	322	8'-2"	12'-2"	8 STD	4 STD	43.43	29'-0"	12 STD	0.375	L8"x8"x1/2"	14.21	BP-12	S-B	3'-6"	17'-0"	164
S55-30-11	180'-0"	322	8'-2"	12'-2"	8 STD	4 STD	43.43	36'-0"	12 STD	0.375	L8"x8"x1/2"	16.29	BP-12	S-C	3'-6"	17'-0"	164
S55-30-13	180'-0"	322	8'-2"	12'-2"	8 STD	4 STD	43.43	42'-0"	16 STD	0.375	L8"x8"x1/2"	20.76	BP-16	S-D	4'-0"	19'-0"	239
S55-60-9	180'-0"	645	8'-2"	12'-2"	10 STD	4 STD	52.53	29'-0"	16 STD	0.375	L8"x8"x9/16"	16.34	BP-16	S-D	4'-0"	19'-0"	239
S55-60-11	180'-0"	645	8'-2"	12'-2"	10 STD	4 STD	52.53	36'-0"	16 STD	0.375	L8"x8"x9/16"	18.84	BP-16	S-F	4'-0"	20'-0"	251
S55-60-13	180'-0"	645	8'-2"	12'-2"	10 STD	4 STD	52.53	42'-0"	20 STD	0.375	L8"x8"x9/16"	24.27	BP-20	S-H	4'-0"	22'-0"	276
S55-90-9	180'-0"	968	8'-2"	12'-2"	12 STD	4 STD	59.37	29'-0"	18 STD	0.375	L8"x8"x3/4"	18.55	BP-18	S-F	4'-0"	20'-0"	251
S55-90-11	180'-0"	968	8'-2"	12'-2"	12 STD	4 STD	59.37	36'-0"	20 STD	0.375	L8"x8"x3/4"	22.74	BP-20	S-H	4'-0"	22'-0"	276
S55-90-13	180'-0"	968	8'-2"	12'-2"	12 STD	4 STD	59.37	42'-0"	20 XS	0.500	L8"x8"x3/4"	31.00	BP-20	S-J	4'-0"	23'-0"	289
S60-30-9	196'-0"	322	8'-2"	12'-2"	10 STD	4 STD	57.10	29'-0"	12 STD	0.375	L8"x8"x1/2"	14.21	BP-12	S-B	3'-6"	17'-0"	164
S60-30-11	196'-0"	322	8'-2"	12'-2"	10 STD	4 STD	57.10	36'-0"	14 STD	0.375	L8"x8"x1/2"	17.08	BP-14	S-C	3'-6"	17'-0"	164
S60-30-13	196'-0"	322	8'-2"	12'-2"	10 STD	4 STD	57.10	42'-0"	16 STD	0.375	L8"x8"x1/2"	20.76	BP-16	S-D	4'-0"	19'-0"	239
S60-60-9	196'-0"	645	8'-2"	12'-2"	10 STD	4 STD	57.10	29'-0"	16 STD	0.375	L8"x8"x9/16"	16.34	BP-16	S-E	4'-0"	19'-0"	239
S60-60-11	196'-0"	645	8'-2"	12'-2"	10 STD	4 STD	57.10	36'-0"	18 STD	0.375	L8"x8"x9/16"	20.09	BP-18	S-F	4'-0"	20'-0"	251
S60-60-13	196'-0"	645	8'-2"	12'-2"	10 STD	4 STD	57.10	42'-0"	20 STD	0.375	L8"x8"x9/16"	24.27	BP-20	S-H	4'-0"	22'-0"	276
S60-90-9	196'-0"	968	8'-2"	12'-2"	12 STD	4 STD	64.56	29'-0"	18 STD	0.375	L8"x8"x3/4"	18.55	BP-18	S-F	4'-0"	20'-0"	251
S60-90-11	196'-0"	968	8'-2"	12'-2"	12 STD	4 STD	64.56	36'-0"	20 STD	0.375	L8"x8"x3/4"	22.74	BP-20	S-H	4'-0"	22'-0"	276
S60-90-13	196'-0"	968	8'-2"	12'-2"	12 STD	4 STD	64.56	42'-0"	20 XS	0.500	L8"x8"x3/4"	31.00	BP-20	S-J	4'-0"	23'-0"	289
S65-30-9	213'-0"	322	8'-2"	12'-2"	10 STD	4 STD	62.38	29'-0"	12 STD	0.375	L8"x8"x1/2"	14.21	BP-12	S-C	3'-6"	17'-0"	164
S65-30-11	213'-0"	322	8'-2"	12'-2"	10 STD	4 STD	62.38	36'-0"	14 STD	0.375	L8"x8"x1/2"	17.08	BP-14	S-D	3'-6"	19'-0"	183
S65-30-13	213'-0"	322	8'-2"	12'-2"	10 STD	4 STD	62.38	42'-0"	16 STD	0.375	L8"x8"x1/2"	20.76	BP-16	S-E	4'-0"	19'-0"	239
S65-60-9	213'-0"	645	8'-2"	12'-2"	12 STD	4 STD	70.44	29'-0"	16 STD	0.375	L8"x8"x9/16"	16.34	BP-16	S-E	4'-0"	19'-0"	239
S65-60-11	213'-0"	645	8'-2"	12'-2"	12 STD	4 STD	70.44	36'-0"	18 STD	0.375	L8"x8"x9/16"	20.09	BP-18	S-G	4'-0"	22'-0"	276
S65-60-13	213'-0"	645	8'-2"	12'-2"	12 STD	4 STD	70.44	42'-0"	20 STD	0.375	L8"x8"x9/16"	24.27	BP-20	S-H	4'-0"	22'-0"	276
S65-90-9	213'-0"	968	8'-2"	12'-2"	12 XS	5 STD	95.23	29'-0"	20 STD	0.375	L8"x8"x3/4"	19.58	BP-20	S-G	4'-0"	22'-0"	276
S65-90-11	213'-0"	968	8'-2"	12'-2"	12 XS	5 STD	95.23	36'-0"	20 XS	0.500	L8"x8"x3/4"	27.14	BP-20	S-I	4'-0"	23'-0"	289
S65-90-13	213'-0"	968	8'-2"	12'-2"	12 XS	5 STD	95.23	42'-0"	20 XS	0.500	L8"x8"x3/4"	31.00	BP-20	S-K	4'-0"	25'-0"	314

INDICATES INFORMATION NOT RELEVANT TO PROPOSED WORK

NOTES:

1. STRUCTURE TYPE EXAMPLE: S15-30-9
   - SPAN
   - MAX. SPAN LENGTH
   - MAX. NOMINAL POST HEIGHT
   - MAX. SIGN AREA

   (NOTE: DESIGNATIONS ARE BASED ON THE ORIGINAL METRIC DIMENSIONING)
2. FOR SHAFT AND RECTANGULAR FOOTING DETAILS, SEE DWG. NO. OSD-03.
3. SHAFT LENGTHS AND CONCRETE QUANTITIES ARE FOR SHAFTS IN S (SOIL) SUBSTRATES AS INDICATED IN THE SUBSTRATE COLUMNS ON DWG. NO. XXX-XX. FOR SHAFTS IN R (ROCK) SUBSTRATES OR SPECIAL FOUNDATIONS, ADJUST QUANTITIES AS NECESSARY FOR BID PURPOSES IN ACCORDANCE WITH DWG. NO. OSD-03 OR SPECIAL FOUNDATION DRAWINGS.
4. SIGN HEIGHT, AS SHOWN ON DWG. NO. OSD-09, SHALL BE A MAXIMUM OF 19'-6".
5. SHAFT CONCRETE QUANTITY SHOWN IS FOR A SINGLE SHAFT. MULTIPLY BY THE NUMBER OF SHAFTS REQUIRED (TWO PER FOUNDATION) FOR BID QUANTITY PURPOSES.
6. TRUSS WEIGHTS SHOWN ARE BASED ON MAXIMUM SPAN LENGTH AND REFLECT THE OPTIONAL DOUBLE ANGLE SUBSTITUTION FOR HORIZONTAL DIAGONALS, STRUTS, AND CROSS BRACES AS SHOWN IN THE TABLE ON DWG. NO. OSD-07. TRUSS WEIGHTS DO NOT INCLUDE SIGN WEIGHT.
7. END FRAME WEIGHTS SHOWN INCLUDE BOTH END FRAMES AND ARE BASED ON MAXIMUM NOMINAL POST HEIGHT AND SINGLE ANGLE DIAGONALS.
8. PIPE SIZES SHALL BE BASED ON DIMENSIONS FROM ASTM A53.
9. FABRICATORS SHALL PLACE ALL SHIPPING WEIGHTS ON SHOP DRAWINGS.
10. THESE TABLES ARE FOR USE WITH 1/8" THICK ALUMINUM FLAT PANEL SIGNS ONLY.

DESIGNED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DESIGN SUPERVISOR: M. BEDFORD

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · MATTHEW CLARENCE BEDFORD · LICENSED PROFESSIONAL ENGINEER · 103716

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: OVERHEAD SIGN STRUCTURES SPAN STRUCTURES SELECTION TABLE	DRAWING NUMBER: OSD-02

FOUNDATION TABLE

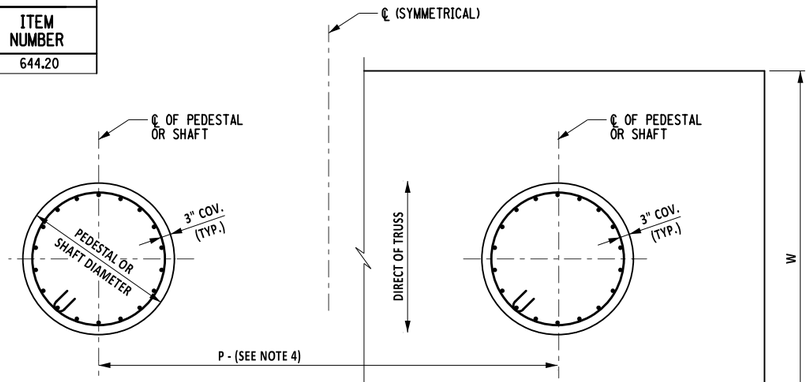
TYPE	FOOTING ON SOIL								FOOTING ON ROCK								PEDESTAL/SHAFT VERTICAL REINFORCEMENT (SEE NOTE 11)	
	SIZE			H	* TOTAL CONCRETE QUANTITY (ft.³)		LONG. REINF. T & B SIZE	TRANS. REINF. T & B SIZE	SIZE			H	* TOTAL CONCRETE QUANTITY (ft.³)		LONG. REINF. T & B SIZE	TRANS. REINF. T & B SIZE		
	L	W	T		3'-6" PED.	4'-0" PED.			L	W	T		3'-6" PED.	4'-0" PED.			NO. OF BARS	SIZE
S-A	18'-1"	6'-11"	2'-0"	8'-6"	375.2	—	*5(G)	*5(G)	16'-5"	6'-11"	2'-0"	8'-6"	352.2	—	*5(G)	*5(G)	16	*5(G)
S-B	19'-1"	8'-7"	2'-0"	8'-10"	459.1	499.3	*6(G)	*5(G)	18'-5"	7'-7"	2'-8"	8'-6"	484.7	519.0	*6(G)	*5(G)	18	*5(G)
S-C	21'-0"	8'-11"	2'-8"	8'-10"	618.0	654.3	*7(G)	*5(G)	19'-0"	8'-6"	3'-0"	8'-10"	596.8	631.1	*6(G)	*5(G)	16	*6(G)
S-D	23'-0"	9'-7"	3'-0"	9'-2"	779.9	816.2	*7(G)	*5(G)	20'-0"	8'-10"	3'-7"	8'-10"	734.1	765.0	*6(G)	*5(G)	16	*6(G)
S-E	24'-0"	9'-11"	3'-7"	9'-2"	—	993.2	*7(G)	*5(G)	20'-0"	9'-10"	3'-7"	9'-2"	—	845.1	*6(G)	*6(G)	18	*6(G)
S-F	25'-7"	10'-6"	3'-7"	9'-6"	—	1111.3	*8(G)	*5(G)	20'-0"	11'-2"	4'-0"	9'-6"	—	1031.6	*6(G)	*8(G)	18	*6(G)
S-G	25'-11"	11'-2"	4'-0"	9'-6"	—	1295.8	*8(G)	*5(G)	20'-4"	11'-6"	4'-0"	9'-6"	—	1073.6	*7(G)	*8(G)	16	*7(G)
S-H	26'-7"	11'-2"	4'-0"	9'-6"	—	3000.4	*8(G)	*5(G)	21'-0"	12'-2"	4'-0"	9'-10"	—	1168.6	*7(G)	*8(G)	16	*7(G)
S-I	26'-11"	11'-6"	4'-0"	9'-6"	—	1376.4	*8(G)	*5(G)	21'-0"	12'-6"	4'-0"	9'-10"	—	1196.6	*7(G)	*8(G)	16	*7(G)
S-J	26'-11"	12'-2"	4'-0"	9'-10"	—	1456.6	*8(G)	*5(G)	21'-8"	12'-6"	4'-7"	9'-10"	—	1373.3	*7(G)	*8(G)	18	*7(G)
S-K	27'-11"	12'-2"	4'-7"	9'-10"	—	1688.7	*8(G)	*5(G)	21'-8"	13'-2"	4'-7"	10'-2"	—	1447.9	*7(G)	*8(G)	16	*8(G)

* NOTE: TOTAL CONCRETE QUANTITY INCLUDES FOOTING AND PEDESTAL CONCRETE.

NOTES:

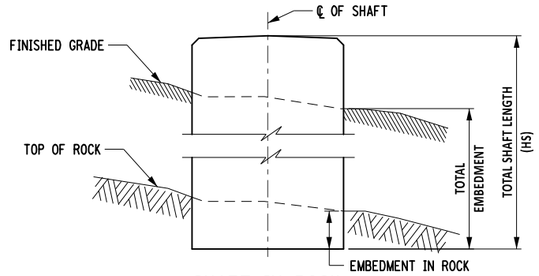
1. FOR DETAILS OF ANCHOR BOLTS AND TEMPLATES SEE DWG. NO. OSD-08.
2. INSTALL ONE NPS 2 STD GALVANIZED CONDUIT IN EACH FOUNDATION AT PEDESTAL OR SHAFT AT FACE OF STRUCTURE WHERE SIGNS ARE MOUNTED. OMIT IF SIGN LIGHTING IS NOT IN THE CONTRACT.
3. FOR FOUNDATION TYPE, SEE DWG. NO. OSD-01.
4. FOR POST SPACING (P), PEDESTAL AND SHAFT DIAMETER, SHAFT LENGTH (HS) AND CONCRETE QUANTITY WHEN IN SUBSTRATE TYPE S (SOIL), SEE DWG. NO. OSD-02.
5. WHERE A FOOTING IS TO BE PLACED ON ROCK, REMOVE ALL DISINTEGRATED OR SHATTERED MATERIAL TO LINES AND LEVELS ORDERED BY THE ENGINEER. IF TOP OF SOUND ROCK IS BELOW PLANNED ELEVATION OF BOTTOM OF FOOTING, BACKFILL WITH CONCRETE FOR STRUCTURES, PERFORMANCE TO THE PLANNED ELEVATION, OR PROCEED AS ORDERED BY THE ENGINEER. IF TOP OF SOUND ROCK IS ABOVE PLANNED ELEVATION OF BOTTOM OF FOOTING, SEE NOTE 10 AND PROCEED AS ORDERED BY THE ENGINEER. ROCK REMOVED BELOW THE ELEVATION DIRECTED BY THE ENGINEER AND BEYOND THE FACE OF THE FINISHED FOOTING, SHALL BE REPLACED BY BACKFILL OF CONCRETE FOR STRUCTURES, PERFORMANCE FOR WHICH NO PAYMENT WILL BE MADE.
6. THE GEOTECHNICAL ENGINEER FOR THE AUTHORITY SHALL BE CONSULTED UNDER THE FOLLOWING CIRCUMSTANCES:
   A. FOOTING OR SHAFT IS PLACED IN SOFT CLAY OR ORGANIC DEPOSITS.
   B. GROUNDWATER ELEVATION IS ABOVE BOTTOM OF FOOTING OR SHAFT.
   C. UNANTICIPATED ROCK IS ENCOUNTERED WITHIN THE DEPTH OF THE SHAFT.
   D. DEPTH TO SOUND ROCK FOR SHAFTS DIFFERS FROM THAT INDICATED ON DWG. NO. OSD-01.
   E. SLOPE OF FINISHED GRADE EXCEEDS 1 ON 2.
7. ANY DRILLING OF ROCK FOR SHAFT FOUNDATIONS SHALL BE PERFORMED FROM THE EXISTING EARTH SURFACE THROUGH THE AUGER HOLE FORMED DURING THE DRILLING OPERATION. CASING, IF USED, SHALL BE REMOVED PRIOR TO PLACING SHAFT CONCRETE.
8. HEIGHT OF PEDESTAL OR LENGTH OF SHAFT MAY BE INCREASED AS ORDERED BY THE ENGINEER AS MUCH AS 1'-8" IF NECESSARY TO REACH GOOD FOUNDATION MATERIAL.
9. THE MINIMUM SHAFT DIAMETER SHALL BE BOLT CIRCLE DIAMETER + 8".
10. EXCAVATION, BACKFILL, FORM WORK, REINFORCEMENT, CONDUIT STUB-OUT AND ALL OTHER LABOR AND MATERIALS NECESSARY TO CONSTRUCT THE FOUNDATIONS SHALL BE INCLUDED IN THE PRICE BID FOR THE FOUNDATION CONCRETE.
11. THE FOOTINGS SHOWN HAVE BEEN DESIGNED USING THE SOIL OVERBURDEN TO RESIST OVERTURNING. IF IT IS DETERMINED THAT THE FOOTING DEPTH NEEDS TO BE REDUCED, CONTACT THE GEOTECHNICAL ENGINEER FOR THE AUTHORITY.
12. (G) DENOTES HOT-DIP GALVANIZED REINFORCEMENT.
13. SIGN STRUCTURE FOUNDATIONS WERE DESIGNED USING A CONCRETE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

FOUNDATION ITEM NUMBERS	
FOUNDATION TYPE (SEE NOTE 3)	ITEM NUMBER
SHAFT	644.20

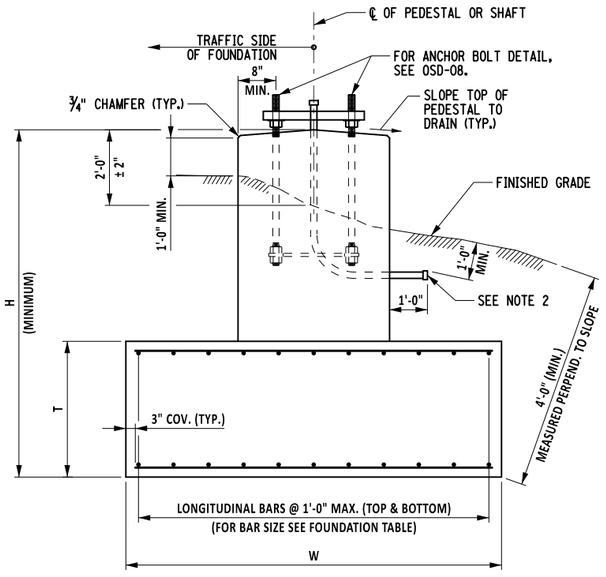


PLAN - SHAFT

PLAN - FOOTING

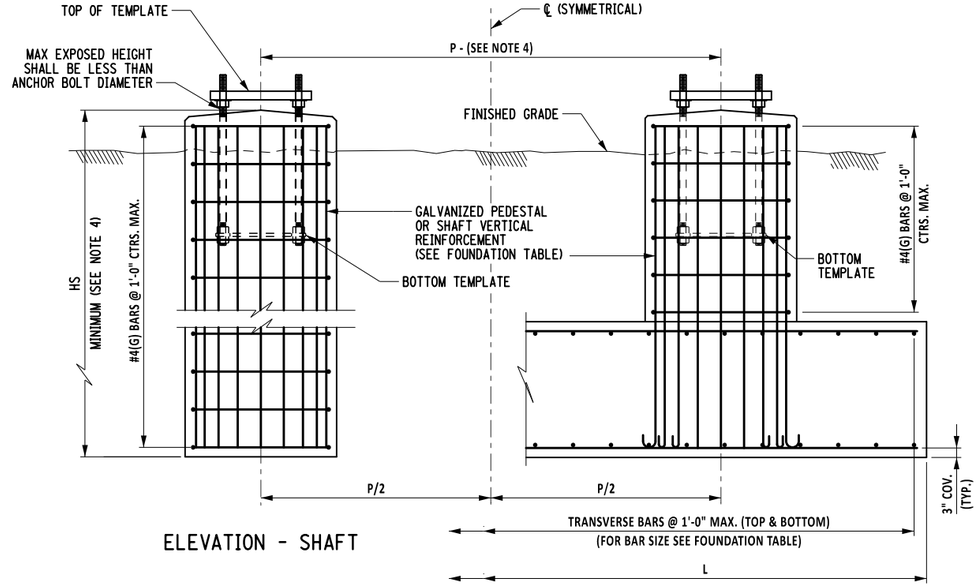


SHAFT IN ROCK



END ELEVATION

(VERTICAL REINFORCEMENT NOT SHOWN)
(FOOTING SHOWN, SHAFT SIMILAR TO PEDESTAL PORTION OF DETAIL)



ELEVATION - SHAFT

SIDE ELEVATION - FOOTING

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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

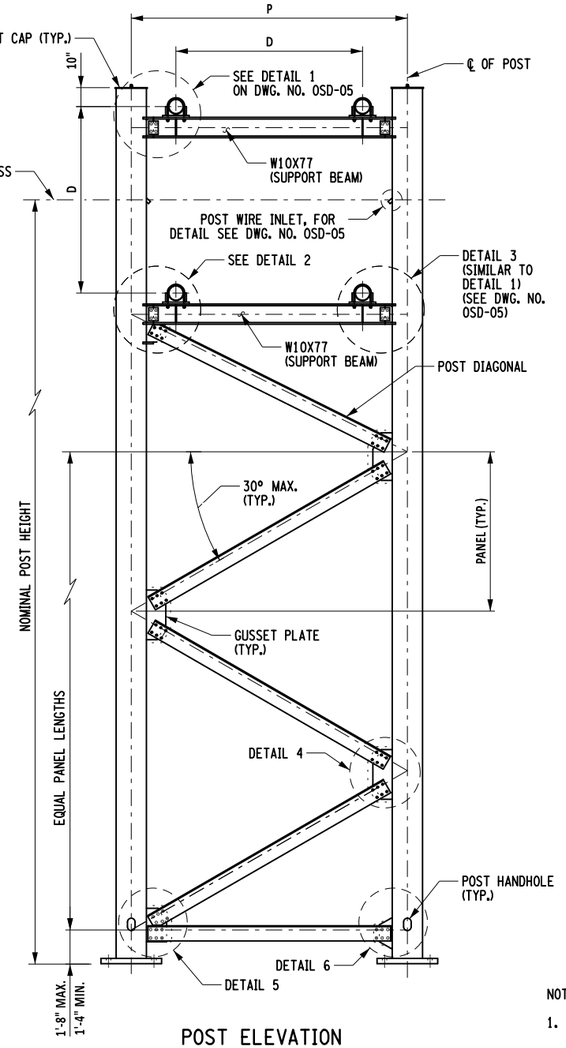
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

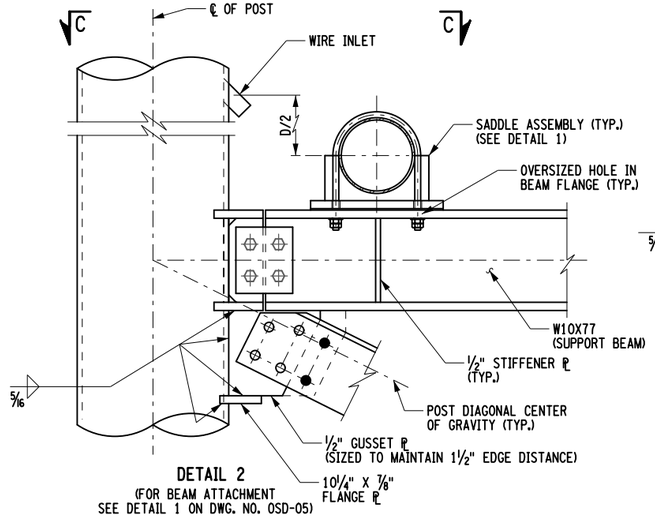
PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	OVERHEAD SIGN STRUCTURES SPAN STRUCTURES FOUNDATION DETAILS
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	OSD-03

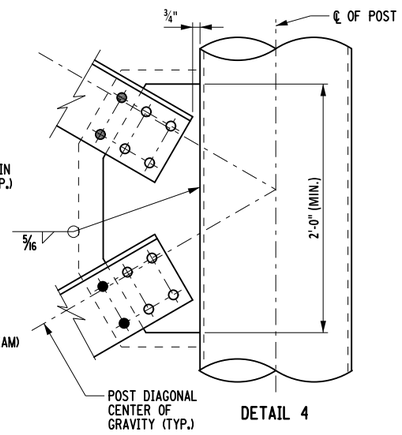
DESIGNED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DESIGN SUPERVISOR: M. BEDFORD



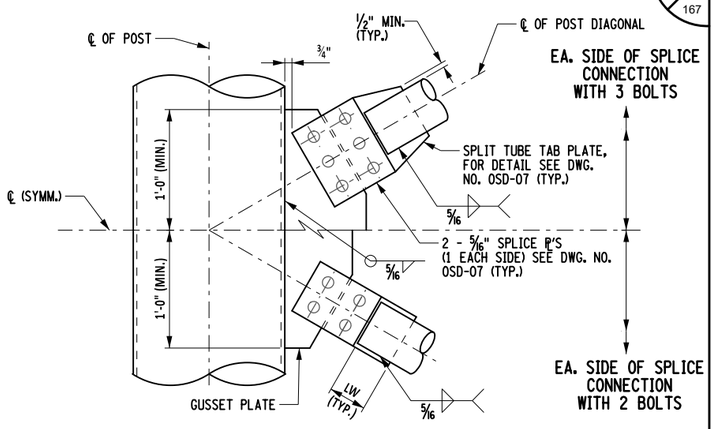
POST ELEVATION



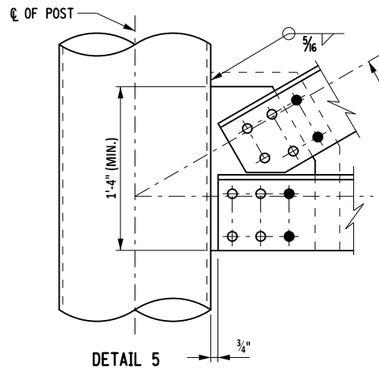
DETAIL 2
(FOR BEAM ATTACHMENT SEE DETAIL 1 ON DWG. NO. OSD-05)



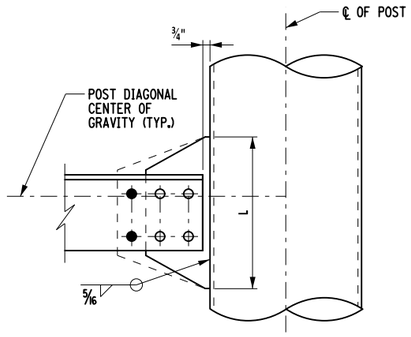
DETAIL 4



TUBE CONNECTION
TYPICAL OPTIONAL SPLIT

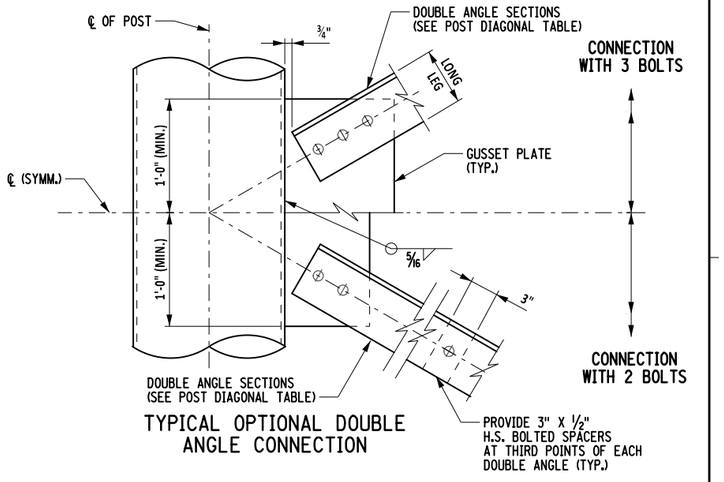


DETAIL 5



DETAIL 6

TYPICAL POST CONNECTION DETAILS
(SHOWN FOR FOUR OR SIX BOLT CONNECTIONS OF POST DIAGONAL)



TYPICAL OPTIONAL DOUBLE ANGLE CONNECTION

NOTES:

1. PLACE HANDHOLES OPPOSITE TRAFFIC. FOR DETAIL SEE DWG. NO. OSD-08.
2. FOR POST CAP DETAILS, SEE DWG. NO. OSD-08.
3. FOR DETAILS 1 AND 3 AND SECTION C-C SEE DWG. NO. OSD-05.
4. ALL BOLTS SHALL BE HIGH STRENGTH ⅞" DIA. IN STANDARD HOLES, UNLESS OTHERWISE NOTED.
5. GUSSET AND SPLIT TUBE TAB PLATES SHALL BE ½" THICK UNLESS OTHERWISE NOTED.
6. BOLTS DESIGNATED AS ● ARE FOR SIX BOLT CONNECTIONS ONLY.
7. TOP SUPPORT BEAMS SHALL BE INSTALLED AFTER TRUSS HAS BEEN ERECTED AND LEVELED.
8. A POST WIRE INLET SHALL BE INSTALLED ADJACENT TO EACH TRUSS FACE CARRYING A LIGHTED SIGN PANEL. FOR DETAIL, SEE DWG. NO. OSD-05.
9. FOR SPAN SELECTION TABLE AND DIMENSIONS P AND D, SEE DWG. NO. OSD-02.

POST DIAGONAL				
SINGLE ANGLE SIZE	L MIN.	OPTIONAL SPLIT TUBE		OPTIONAL DOUBLE ANGLE
		PIPE NPS	LW MIN.	ANGLE SIZE
L8"x8"x½"	1'-1"	4 STD	3"	2-L4"x3"x⅜"
L8"x8"x9/16"	1'-2"	5 STD	4"	2-L6"x4"x⅜"
L8"x8"x⅝"	1'-3"	5 STD	4"	2-L6"x4"x⅜"
L8"x8"x¾"	1'-4"	5 STD	4"	2-L6"x4"x⅜"

SPAN LENGTH (ft.)	SIGN AREA (ft.²)	NUMBER OF BOLTS IN DIAGONAL CONNECTION		
		SINGLE ANGLE	SPLIT TUBE (EACH SIDE OF SPLICE)	DOUBLE ANGLE
≤ 164′	ALL	4	2	2
180′	UP TO 645	4	2	2
ALL OTHERS	ALL	6	3	3

ALTERED ON:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

SIGNATURE:
STAMP:

STATE OF NEW YORK
MATTHEW CLARENCE BEDFORD
103716
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

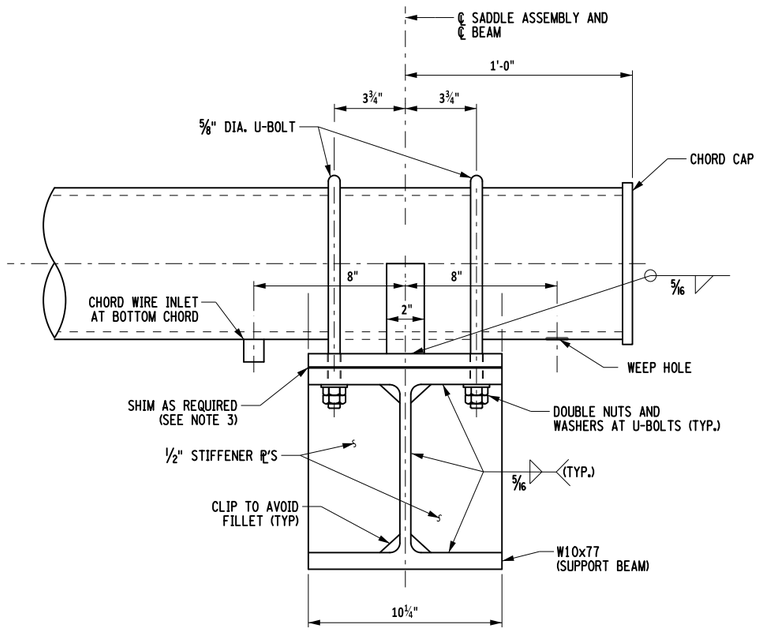
TITLE OF DRAWING
OVERHEAD SIGN STRUCTURES
SPAN STRUCTURES
POST DETAILS (SHEET 1 OF 2)

CONTRACT NUMBER: TAB 25-17B

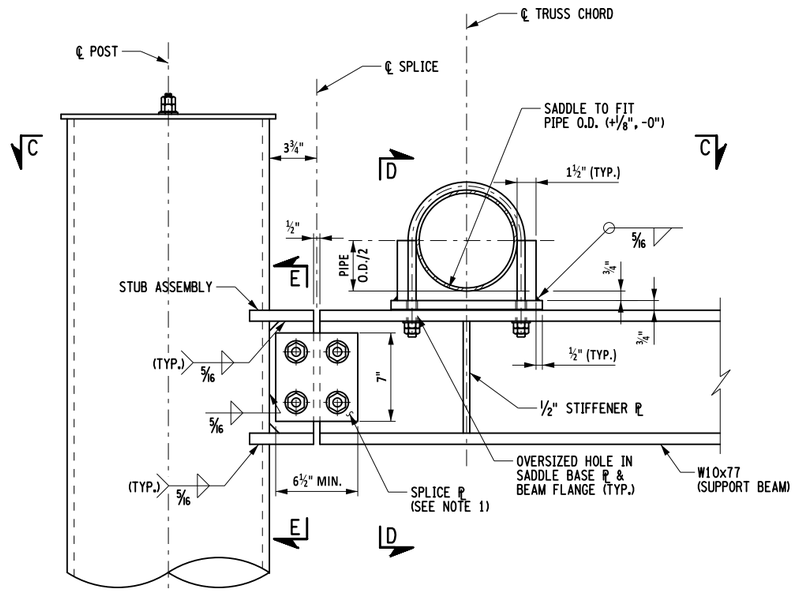
DATE: 08/15/2025

DRAWING NUMBER: OSD-04

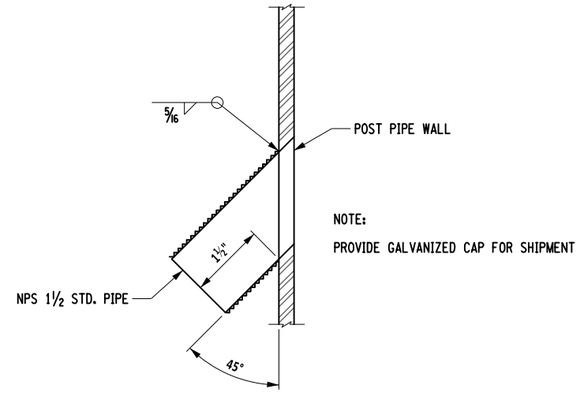
DESIGNED BY: N. ARTIS
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DESIGN SUPERVISOR: M. BEDFORD
CHECKED BY: S. LOFORTE



SECTION D-D



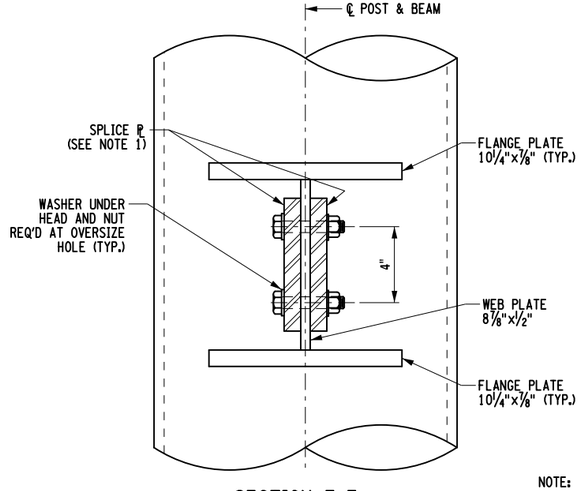
DETAIL 1
(DETAIL 3 SIMILAR, OPPOSITE HAND)



POST WIRE
INLET DETAIL

NOTE:

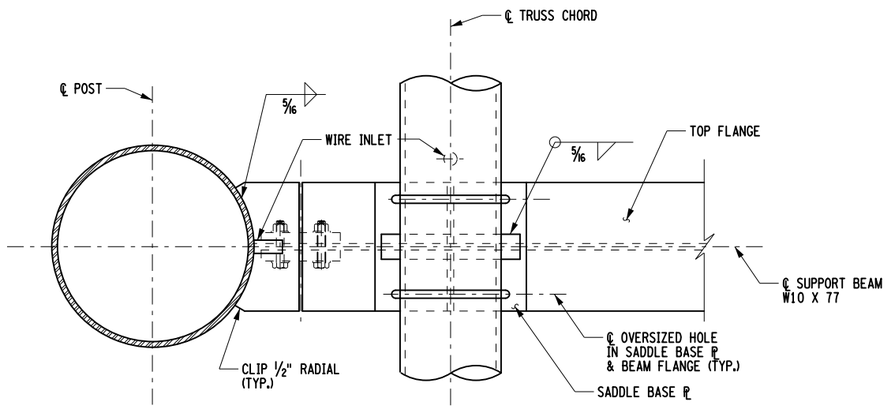
ONLY REQUIRED WHEN LIGHTING ON STRUCTURE.



SECTION E-E

NOTE:

STUB MAY BE FABRICATED FROM W10X77 OR WELDED ASSEMBLY AS SHOWN.



SECTION C-C

NOTES:

1. SPLICE PLATES SHALL BE ⅝" THICK AT TOP BEAM CONNECTIONS, ⅞" THICK AT LOWER BEAM CONNECTIONS. HOLES IN WEB PLATES AT TOP BEAM AND HOLES IN LOWER BEAM CONNECTION SHALL BE STANDARD. HOLES IN TOP BEAM SPLICE PLATES MAY BE OVERSIZE.
2. FOR LOCATION OF DETAILS 1 AND 3, SEE DWG. NO. OSD-04.
3. SADDLE ASSEMBLIES SHALL BE SHIMMED AS REQUIRED TO PROVIDE LEVEL SEAT FOR CHORD WHEN ALL DEAD LOADS ARE APPLIED. VARIABLE THICKNESS SHIM PACKS SHALL BE PROVIDED. THE MAXIMUM ACCEPTABLE GAP SHALL BE 1/16". SHIMS SHALL HAVE OVERSIZE HOLES TO ACCEPT ⅝" U-BOLTS. ALL SHIMS SHALL BE GALVANIZED STEEL.
4. FOR CHORD WIRE INLET DETAIL, SEE DWG. NO. OSD-01.
5. FOR CHORD CAP DETAILS, SEE DWG. NO. OSD-08.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · MATTHEW CLARENCE BEDFORD · 103716 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

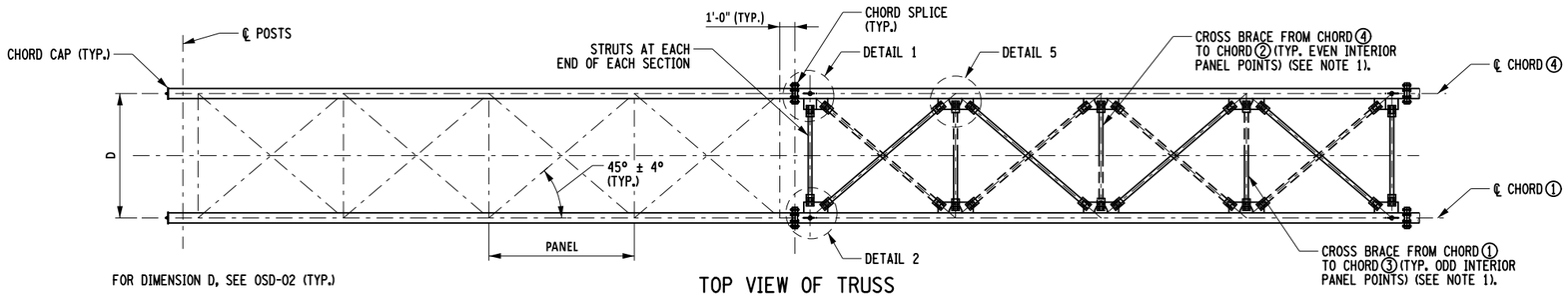
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG Popli Design Group

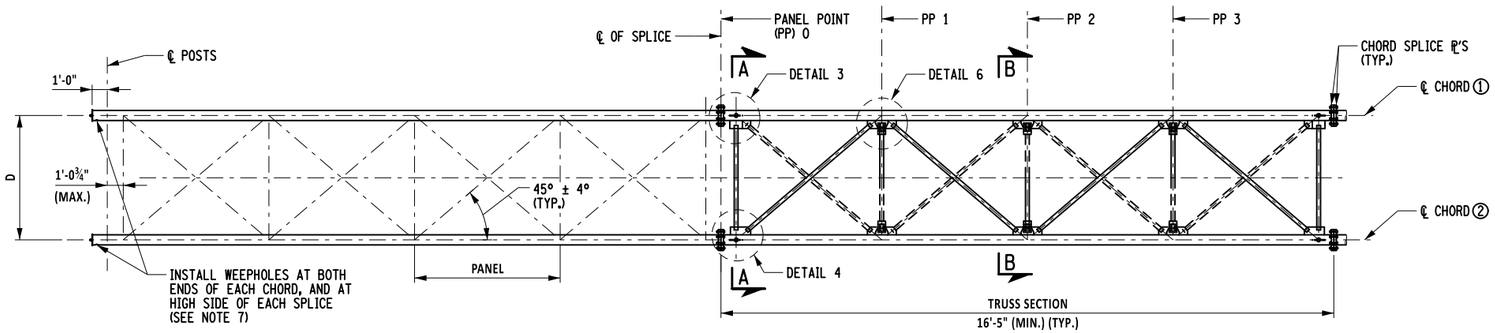
TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	OVERHEAD SIGN STRUCTURES SPAN STRUCTURES POST DETAILS (SHEET 2 OF 2)
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	OSD-05

DESIGNED BY: N. ARTIS
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DESIGN SUPERVISOR: M. BEDFORD
CHECKED BY: S. LOFORTE



FOR DIMENSION D, SEE OSD-02 (TYP.)

TOP VIEW OF TRUSS



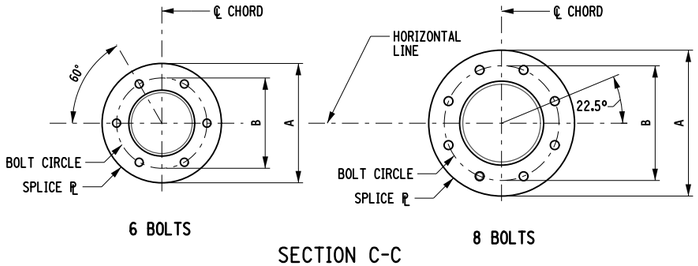
FRONT VIEW OF TRUSS

TYPICAL CHORD SPLICE WELD DETAIL

CAMBER REQUIRED

CAMBER TABLE	
MAX. SPAN	CAMBER
49'-2½"	¾"
65'-7½"	1 3/16"
82'-0¼"	1½"
98'-5⅛"	2"
114'-10"	2⅜"
131'-2¾"	2¾"
147'-7⅝"	3⅛"
164'-0"	4"
180'-5⅞16"	4¾"
196'-10¼"	5½"
213'-3"	7"

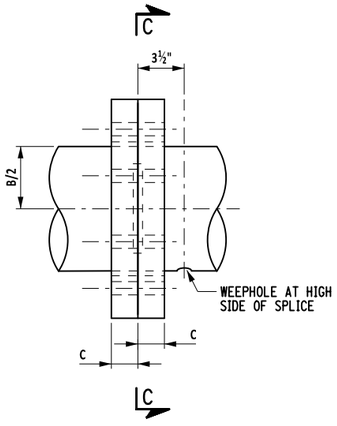
CAMBER DETAIL
(SEE NOTE 2)



6 BOLTS

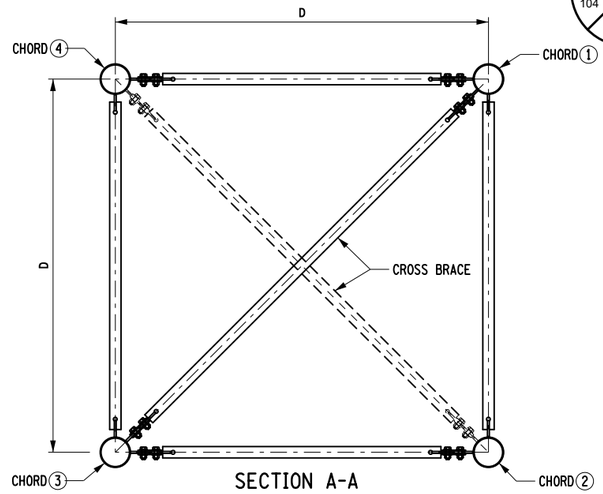
8 BOLTS

SECTION C-C
CHORD SPLICE DETAILS

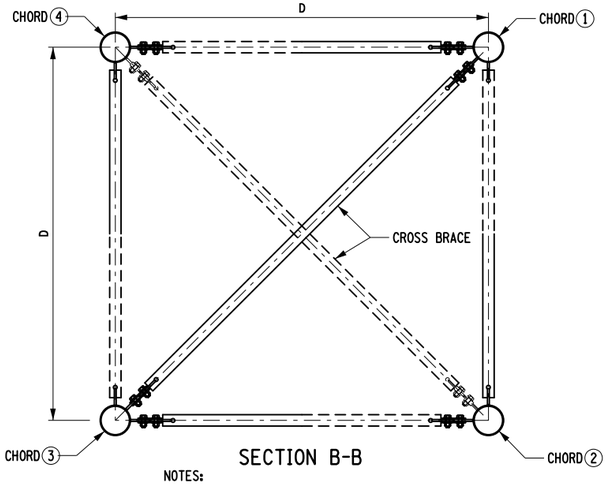


ELEVATION

CHORD SPLICE TABLE							
CHORD NPS	PLATE			HIGH STRENGTH BOLTS		FILLET WELD	
	A	B	C	NUMBER	DIA.	a	b
5 STD	1'-1"	10"	1½"	6	⅞"	5/16"	¼"
6 STD	1'-1½"	10¼"	1½"	6	⅞"	5/16"	¼"
8 STD	1'-4½"	1'-1"	2"	8	1"	⅜"	¼"
10 STD	1'-6"	1'-2½"	2"	8	1"	⅜"	¼"
12 STD	1'-9¼"	1'-5¼"	2⅜"	8	1⅛"	½"	5/16"
12 XS	1'-10"	1'-6"	2⅜"	8	1¼"	½"	⅜"



SECTION A-A



SECTION B-B

NOTES:

1. THE CROSS BRACING SHALL BRACE THE TRUSS CHORD MIDWAY BETWEEN HORIZONTAL DIAGONAL CONNECTION POINTS, SO THAT EACH CHORD OF THE TRUSS IS BRACED HORIZONTALLY AT EACH PANEL POINT BY A HORIZONTAL DIAGONAL, A HORIZONTAL STRUT, OR A CROSS BRACE.
2. CAMBER SHALL BE OBTAINED BY INCREASING THE TOP CHORD LENGTHS AND DECREASING THE BOTTOM CHORD LENGTHS AS SHOWN. CHORD ENDS AND SPLICE PLATES SHALL BE PREPARED TO THE PROPER ANGLE BEFORE SPLICE PLATES ARE WELDED TO THE CHORDS.
3. FOR DETAILS 1 THRU 6, SEE DWG. NO. OSD-07.
4. FOR DETAIL OF CHORD WIRE INLET, SEE DWG. NO. OSD-01.
5. FOR CHORD CAP DETAIL, SEE DWG. NO. OSD-08.
6. BOLT HOLES FOR CHORD SPLICES SHALL BE ⅛" LARGER THAN BOLT DIAMETER.
7. WEEP HOLES SHALL BE ⅜" DIAMETER DRILLED HOLES AT CENTERLINE OF BOTH TOP AND BOTTOM CHORDS.

DESIGNED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DESIGN SUPERVISOR: M. BEDFORD

ALTERED ON:

SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025

SIGNATURE:
STAMP:

STATE OF NEW YORK
MATTHEW CLARENCE BEDFORD
103716
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

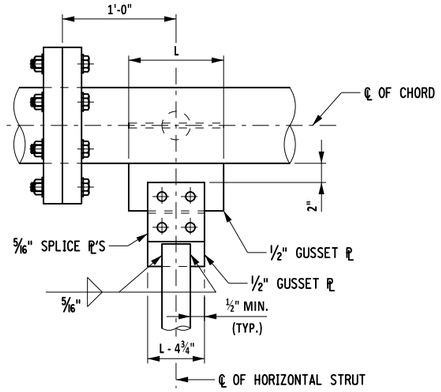
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
OVERHEAD SIGN STRUCTURES
SPAN STRUCTURES
TRUSS DETAILS (SHEET 1 OF 2)

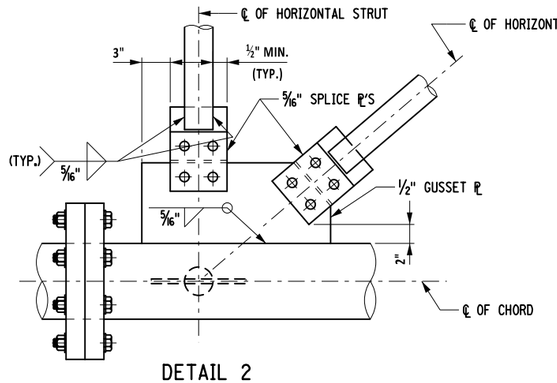
CONTRACT NUMBER:
TAB 25-17B

DATE:
08/15/2025

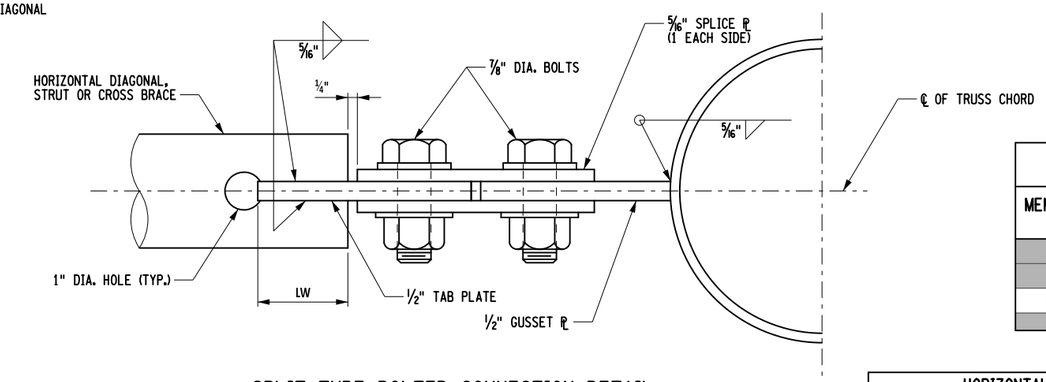
DRAWING NUMBER:
OSD-06



DETAIL 1
(TOP)



DETAIL 2
(TOP)



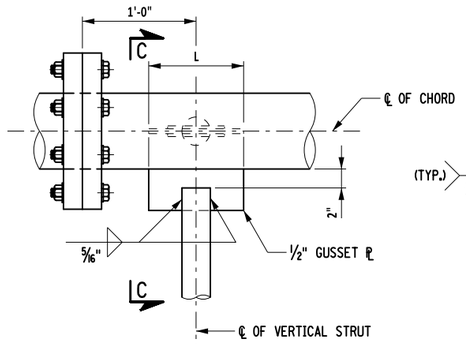
SPLIT TUBE BOLTED CONNECTION DETAIL
(TYPICAL FOR ALL BOLTED TRUSS CONNECTIONS)

DIAGONAL/STRUT AND CROSS BRACE TABLE		
MEMBER SIZE (NPS)	L (MIN.)	LW (MIN.)
2.5 STD.	10"	2 3/8"
3 STD.	10"	2 3/8"
4 STD.	1'-0 3/8"	3 1/8"
5 STD.	1'-2 1/8"	4"

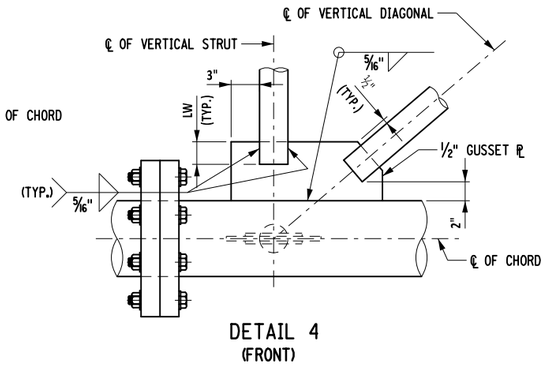
HORIZONTAL DIAGONALS, STRUTS AND CROSS BRACES	
SPLIT TUBE (NPS)	OPTIONAL DOUBLE ANGLE
2.5 STD.	2 L 3"x 2"x 3/8"
3 STD.	2 L 3"x 2 1/2"x 3/8"
4 STD.	2 L 4"x 3"x 3/8"
5 STD.	2 L 6"x 4"x 3/8"

NOTES:

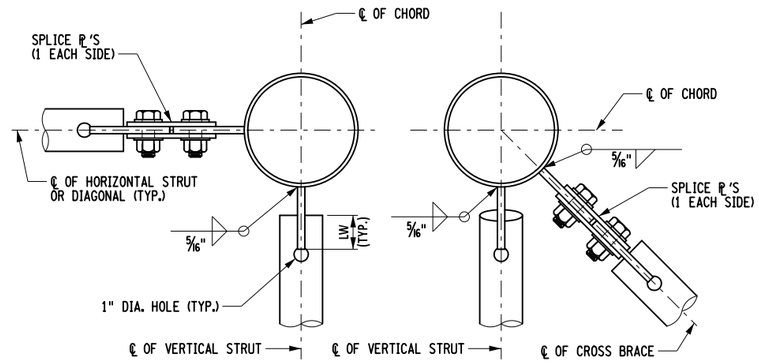
1. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 7/8" DIA. HIGH STRENGTH BOLTS FULLY TIGHTENED. HOLES IN GUSSET AND TAB PLATES SHALL BE STANDARD. HOLES IN BOLTED CONNECTION SPLICE PLATES OR DOUBLE ANGLES MAY BE OVERSIZE. WHERE BOLTS ARE INSTALLED VERTICALLY (OR SEMI-VERTICALLY) THE BOLT SHALL BE INSTALLED WITH THE BOLT HEAD UP.
2. FOR LOCATIONS OF DETAILS, SEE DWG. NO. OSD-06.
3. ALL VERTICAL TRUSS CONNECTIONS SHALL BE WELDED. DOUBLE ANGLES MAY NOT BE SUBSTITUTED FOR VERTICAL TRUSS MEMBERS.
4. FULLY WELDED SPLIT TUBES MAY BE USED IN LIEU OF THE BOLTED CONNECTIONS SHOWN IN DETAILS 4, 5 AND 6, IF GALVANIZING TANKS PERMIT.
5. DETAIL 4 MAY BE SUBSTITUTED FOR DETAIL 1 AT THE FABRICATOR'S DISCRETION.



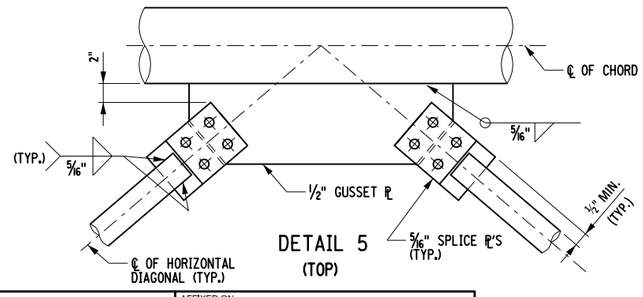
DETAIL 3
(FRONT)



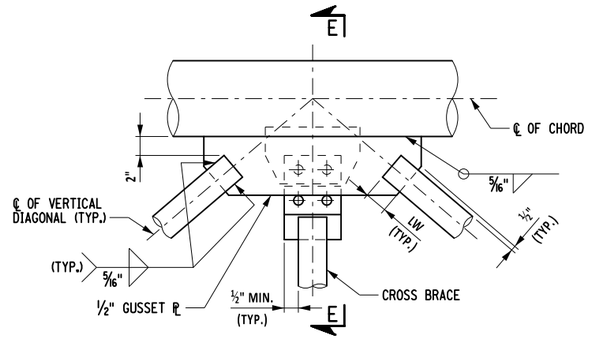
DETAIL 4
(FRONT)



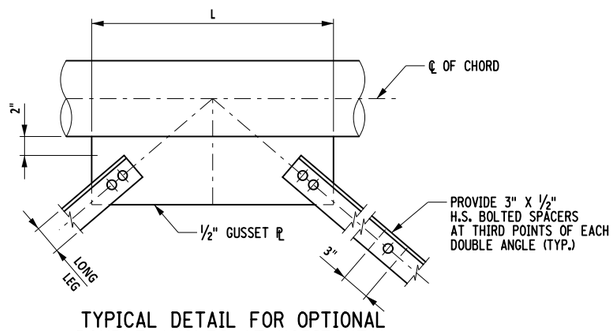
SECTION C-C SECTION E-E



DETAIL 5
(TOP)



DETAIL 6
(FRONT)



TYPICAL DETAIL FOR OPTIONAL DOUBLE ANGLES AT HORIZONTAL DIAGONALS, STRUTS AND CROSS BRACES
(FOR MINIMUM L AT STRUT, SEE DIAGONAL/STRUT AND CROSS BRACE TABLE)

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · MATTHEW CLARENCE BEDFORD · 103716 · LICENSED PROFESSIONAL ENGINEER

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

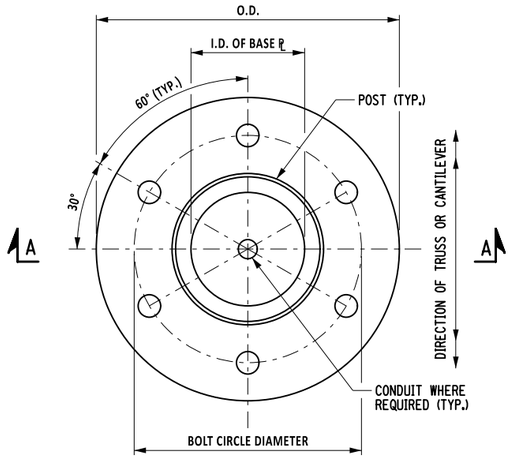
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

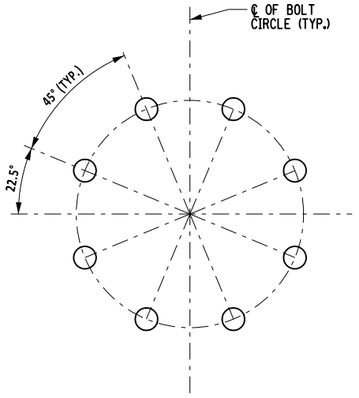
PDG Popli Design Group

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: OVERHEAD SIGN STRUCTURES SPAN STRUCTURES TRUSS DETAILS (SHEET 2 OF 2)	DRAWING NUMBER: OSD-07

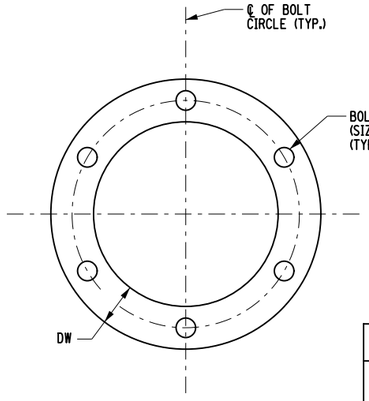
DESIGN SUPERVISOR: M. BEDFORD
DESIGNED BY: N. ARTIS
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
CHECKED BY: S. LOFORTE



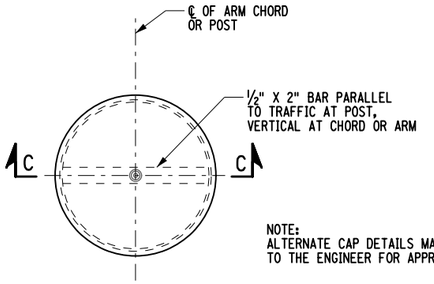
BASE PLATE DETAIL
6 BOLT ARRANGEMENT



BOLT CIRCLE DETAIL
8 BOLT ARRANGEMENT

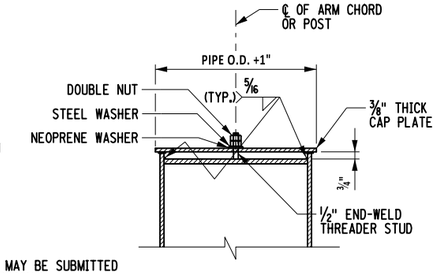


TYPICAL TEMPLATE DETAIL
6 BOLT ARRANGEMENT SHOWN
(8 BOLT AS NECESSARY)



PLAN

NOTE:
ALTERNATE CAP DETAILS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

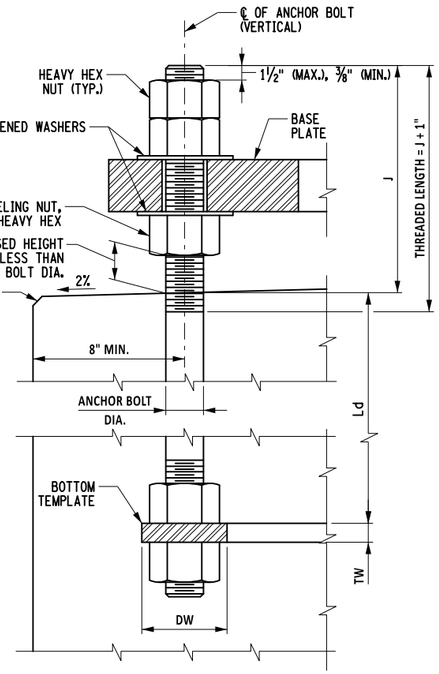


SECTION C-C

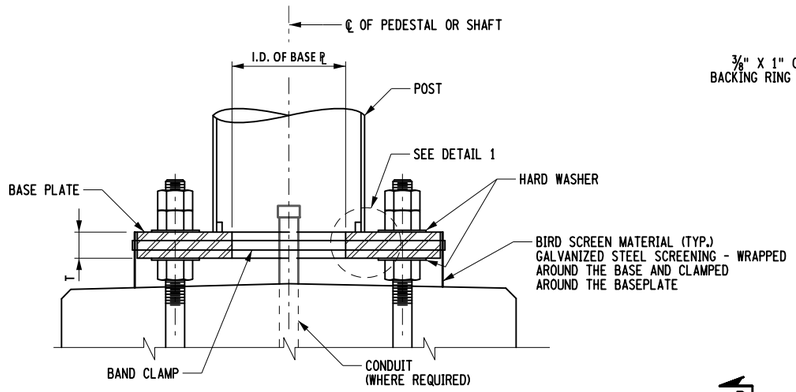
CAP DETAILS

BASE PLATE TABLE							
BASE PLATE TYPE	POST (NPS)	PLATE O.D.	PLATE T	PLATE BOLT CIRCLE DIA.	ANCHOR BOLTS NO.	ANCHOR BOLTS SIZE DIA.	HOLE DIA.
BP-10	10	2'-2¾"	2⅜"	1'-6¾"	6	1½"	1⅞"
BP-12	12	2'-4½"	2⅜"	1'-8½"	6	1¾"	2⅛"
BP-14	14	2'-6"	2⅜"	1'-10"	6	1¾"	2⅛"
BP-16	16	2'-8"	2¾"	2'-0"	6	2"	2⅜"
BP-18	18	2'-10"	2¾"	2'-2"	6	2¼"	2⅝"
BP-20	20	3'-0"	2¾"	2'-4"	6	2¼"	2⅝"
BP-24	24	3'-2"	2¾"	2'-8"	6	2½"	2⅞"
BP-26	26	3'-4"	2¾"	2'-10"	6	2½"	2⅞"
BP-30	30	3'-10½"	2¾"	3'-2½"	6	2½"	2⅞"
BP-36	36	4'-7⅛"	2¾"	3'-11⅛"	8	2½"	2⅞"

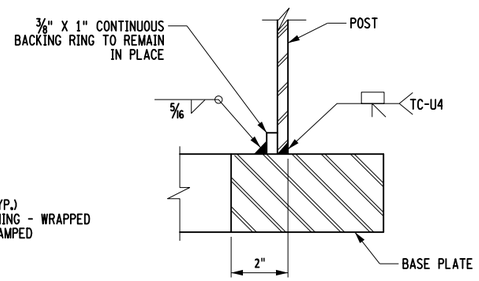
ANCHOR BOLT TABLE (ITEM 644.11)						
BOLT SIZE	Ld MIN. EMBED.	J EXPOSED LENGTH	TEMPLATE DATA DW	TEMPLATE DATA TW	TEMPLATE DATA HOLE DIA.	BOLT WEIGHT (BOLT ONLY) (lbs.)
1½"	2'-5"	9½"	3½"	¾"	1⁹⁄₁₆"	18.1
1¾"	2'-9"	10½"	4"	⅞"	1¹³⁄₁₆"	28.4
2"	3'-2"	1'-0"	4½"	1"	2 1/16"	42.5
2¼"	3'-8"	1'-1½"	5"	1⅛"	2⅜"	66.8
2½"	4'-3"	1'-2¾"	6"	1¼"	2¾"	98.9



ANCHOR BOLT DETAIL

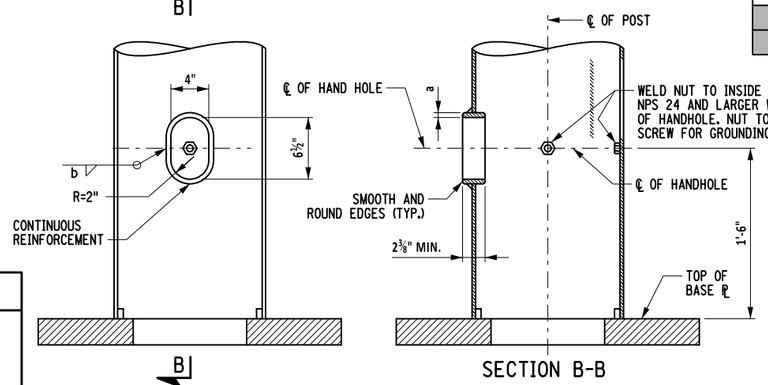


SECTION A-A



DETAIL 1

HANDHOLE TABLE		
PIPE WALL THICKNESS	a REINFORCEMENT THICKNESS (MIN.)	b WELD SIZE
LESS THAN ½"	½"	⅜"
½" TO ⅝"	⅝"	½"



SECTION B-B

POST HANDHOLE DETAIL



COVER

DETAILS OF THE COVER TO BE DETERMINED BY THE FABRICATOR TO FIT TIGHTLY, EXCLUDE WATER, AND BE REMOVABLE WITH A WRENCH. ALL FASTENERS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL.

NOTES:

1. ANCHOR BOLTS, NUTS, WASHERS AND TEMPLATES SHALL BE GALVANIZED.
2. FOR TEMPLATE REQUIREMENT, SEE SPECIFICATIONS.
3. TOP TEMPLATE SHALL BE REMOVED PRIOR TO THE INSTALLATION OF THE BASE PLATE.
4. S.I.N. AND CONTRACT NO. SHALL BE STAMPED ON BASE PLATE, SEE SPECIFICATIONS.

CHECKED BY: S.LOFORTE
DRAFTED BY: N.ARTIS
DESIGNED BY: N.ARTIS
CHECKED BY: S.LOFORTE
DESIGN SUPERVISOR: M.BEDFORD

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · MATTHEW CLARENCE BEDFORD · 103716 · LICENSED PROFESSIONAL ENGINEER

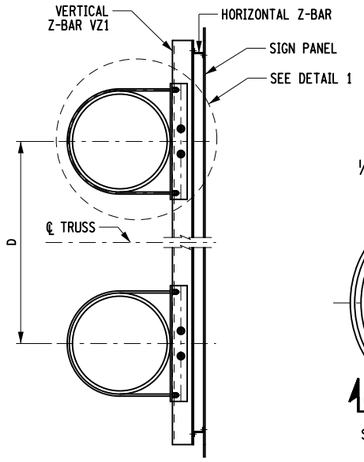
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

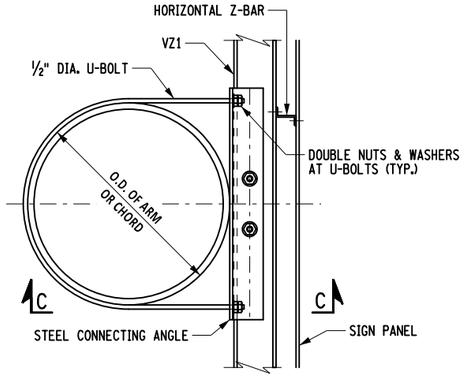
NEW YORK STATE Thruway Authority

PDG Popli Design Group

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	OVERHEAD SIGN STRUCTURES SPAN STRUCTURES BASE AND CAP DETAILS
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	OSD-08

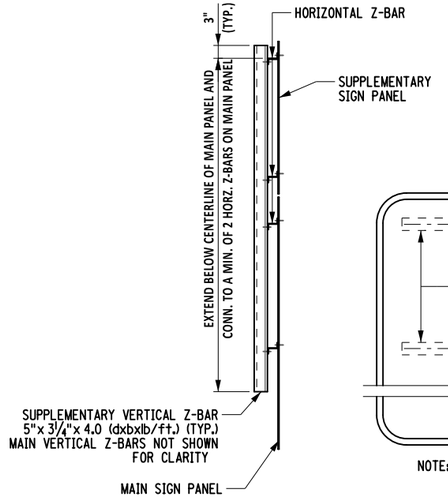


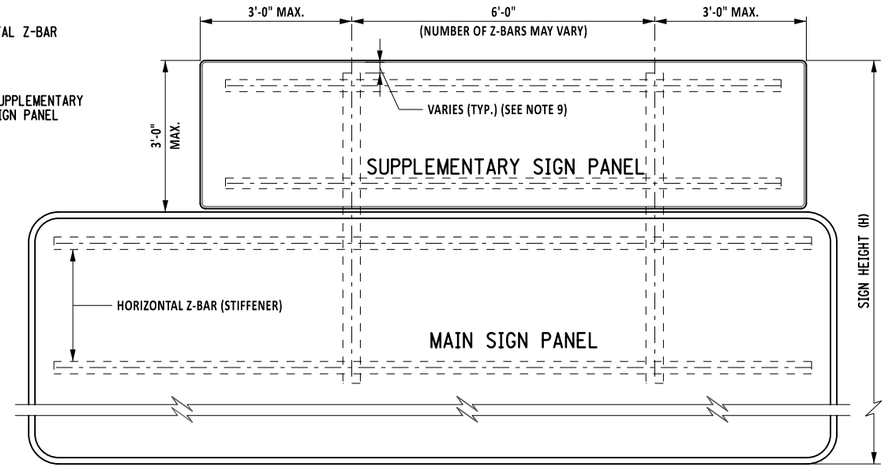
TYPICAL SECTION



DETAIL 1

ATTACHMENT DETAILS AT TRUSSED ARMS OR CHORD

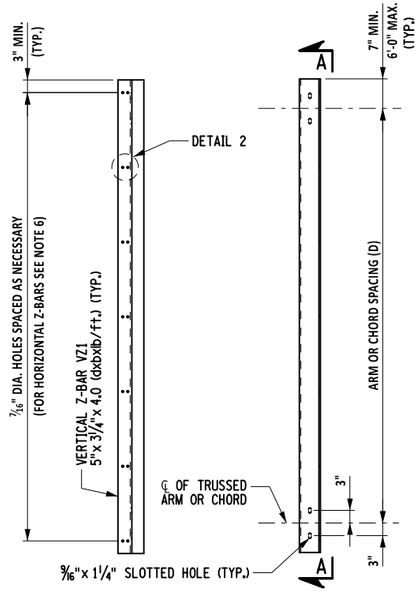




NOTE: IN LIEU OF THIS DETAIL, THE VERTICAL Z-BARS BEHIND THE MAIN SIGN PANEL MAY BE EXTENDED TO CARRY THE SUPPLEMENTARY PANEL. THE OVERHANG OF THE SUPPLEMENTARY PANEL SHALL NOT EXCEED 3'-0".

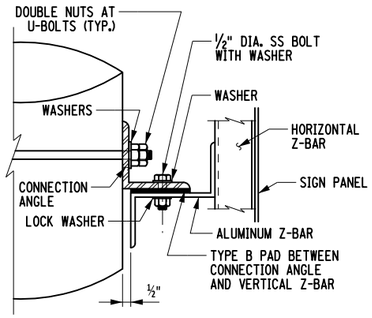
SUPPLEMENTARY SIGN PANEL MOUNTING DETAILS

(MAIN SIGN PANEL VERTICAL Z-BARS AND ADDITIONAL HORIZONTAL Z-BARS NOT SHOWN. SEE NOTE 9)

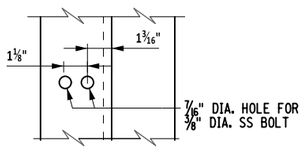


VIEW A-A ELEVATION

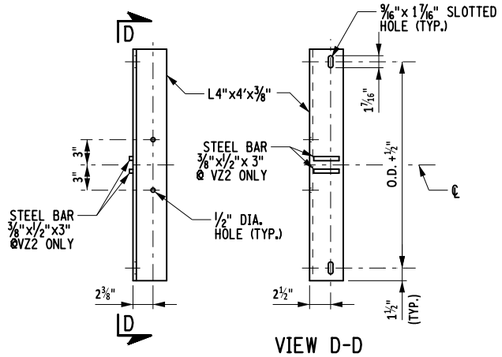
DETAIL OF VERTICAL Z-BAR VZ1



SECTION C-C



DETAIL 2



VIEW D-D

STEEL CONNECTION ANGLE

NOTES:

1. Z-BARS SHALL BE NON-WELDED ALUMINUM ALLOY 6061-T6.
2. EACH SET OF MAIN AND SUPPLEMENTARY SIGN PANELS ON SPAN STRUCTURES SHALL HAVE THE MAIN PANEL VERTICALLY CENTERED ON THE TRUSS. IF THE COMBINED VERTICAL CENTROID OF THE MAIN AND SUPPLEMENTARY SIGN PANELS IS GREATER THAN 9½" AWAY FROM THE VERTICAL CENTROID OF THE MAIN PANEL ALONE, THEN THE COMBINED VERTICAL CENTROID SHALL BE CENTERED ON THE TRUSS.
3. STEEL BARS AND STEEL CONNECTION ANGLES SHALL BE GALVANIZED.
4. ALL STAINLESS STEEL BOLTING MATERIAL SHALL BE ASTM A193, GRADE B8.
5. THERE SHALL BE A MINIMUM OF TWO VERTICAL Z-BARS PER SIGN. SPACING SHALL BE 6'-0" MAXIMUM. END VERTICAL Z-BARS SHALL BE NO MORE THAN 3'-0" FROM THE EDGE OF THE SIGN PANEL. VERTICAL Z-BARS SHALL BE ARRANGED TO AVOID INTERFERENCE WITH CHORD GUSSET PLATES OR WITH CHORD SPLICES. IF INTERFERENCE CANNOT BE RESOLVED BY RESPACING VERTICAL Z-BARS, THE SIGN PANEL MAY BE RELOCATED BY AS MUCH AS 6" FROM ITS ORIGINALLY DESIGNATED LOCATION.
6. SPACING OF SIGN PANEL HORIZONTAL Z-BAR STIFFENERS SHALL BE AS SHOWN ON THE CURRENT SIGN PANEL STANDARD SHEET.
7. A LOCK WASHER SHALL BE USED UNDER EACH NUT FOR NON-COUNTERSUNK STAINLESS STEEL BOLTS. IN LIEU OF THE LOCK WASHER, AN APPROVED STOP NUT MAY BE USED. LOCK WASHERS SHALL NOT BE USED AT A SLOTTED HOLE. A FLAT WASHER SHALL BE USED UNDER EACH BOLT HEAD.
8. SIGN PANEL, HORIZONTAL AND VERTICAL Z-BARS AND FASTENING ASSEMBLIES FOR ATTACHING SIGNS TO STRUCTURE SHALL BE PAID UNDER THE OVERHEAD SIGN PANEL ITEM 645.61000125.
9. SEE NYSDOT STANDARD SHEET 645-09 FOR ADDITIONAL SIGN PANEL MOUNTING DETAILS.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · MATTHEW CLARENCE BEDFORD · 103716 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

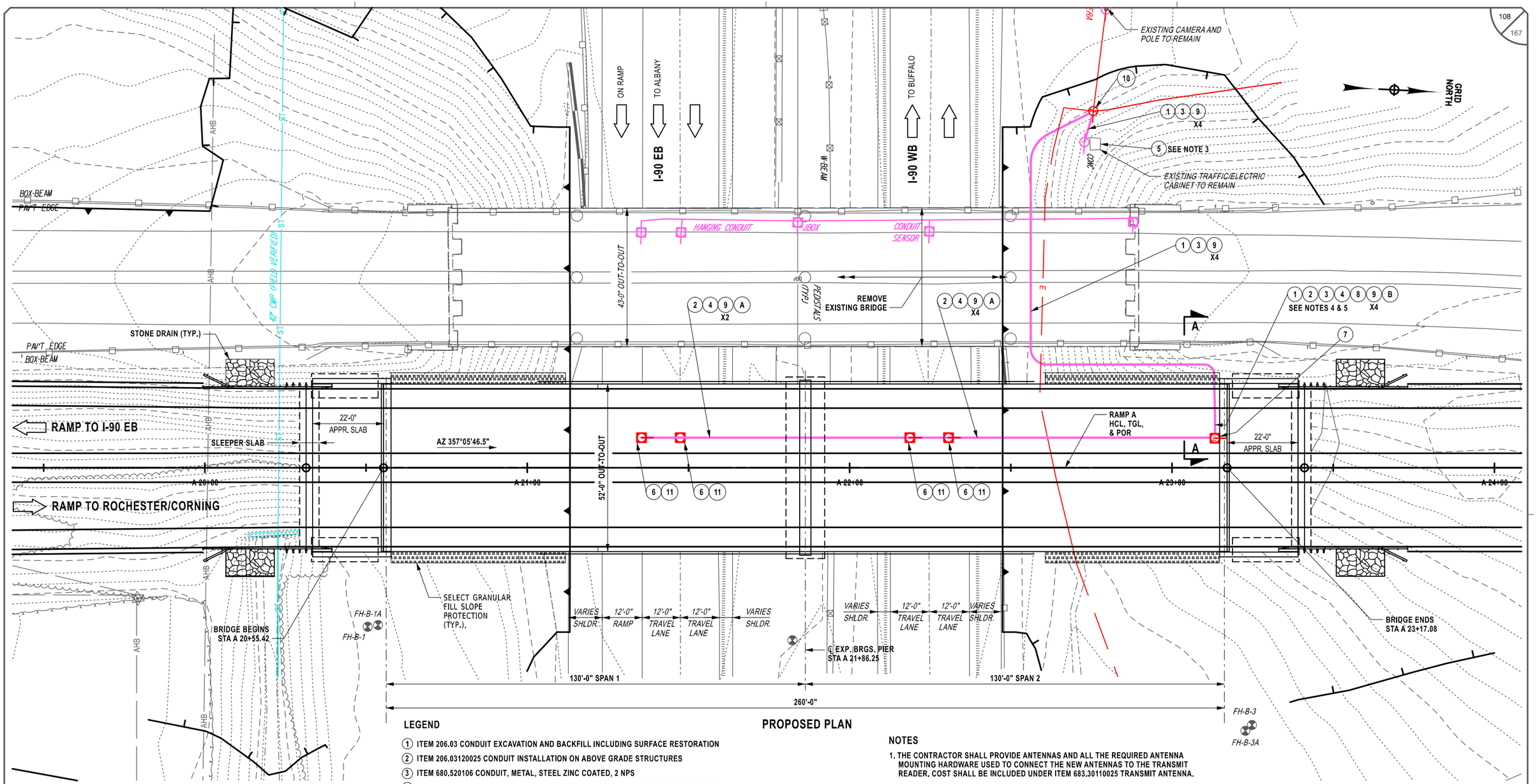
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

PDG POPLI DESIGN GROUP

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	OVERHEAD SIGN STRUCTURES SPAN STRUCTURES SIGN PANEL ATTACHMENT DETAILS
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	OSD-09

DESIGNED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DRAFTED BY: N. ARTIS
CHECKED BY: S. LOFORTE
DESIGN SUPERVISOR: M. BEDFORD



LEGEND

1. ITEM 206.03 CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION
2. ITEM 206.03120025 CONDUIT INSTALLATION ON ABOVE GRADE STRUCTURES
3. ITEM 680.520106 CONDUIT, METAL, STEEL ZINC COATED, 2 NPS
4. ITEM 680.520406 TRAFFIC SIGNAL CONDUIT, PVC COATED GALVANIZED STEEL, 2 INCH
5. ITEM 683.30100025 TRANSMIT TAG READER
6. ITEM 683.30110025 TRANSMIT ANTENNA
7. ITEM 683.50000025 STAINLESS STEEL NEMA 4X TYPE JUNCTION BOX SURFACE MOUNTED 10"X10"X8"
8. ITEM 680.520206 TRAFFIC SIGNAL CONDUIT, FLEXIBLE LIQUID-TIGHT STEEL, 2 INCH
9. ITEM 680.77520025 TRANSMIT COAXIAL CABLE - TYPE B
10. ITEM 680.78010005 ALTER PULLBOX FOR CONDUITS
11. ITEM 564.0501 STRUCTURAL STEEL, TYPE 1

(A) CONDUIT INSTALLED ON SUPERSTRUCTURE

(B) CONDUIT INSTALLED VERTICALLY ON ABUTMENT WITH JUNCTION BOX ON TOP OF CONDUIT

PROPOSED PLAN

NOTES

1. THE CONTRACTOR SHALL PROVIDE ANTENNAS AND ALL THE REQUIRED ANTENNA MOUNTING HARDWARE USED TO CONNECT THE NEW ANTENNAS TO THE TRANSMIT READER. COST SHALL BE INCLUDED UNDER ITEM 683.30110025 TRANSMIT ANTENNA.
2. THE EXISTING POLE MOUNTED CCTV CAMERA SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION.
3. THE EXISTING TRANSMIT READER SHALL BE REMOVED FROM THE CABINET AND DELIVERED TO THE N.Y. STATE THRUWAY AUTHORITY ITSM.
4. SEE DWGS. ITS-2 AND ITS-3 FOR TRANSMIT ANTENNA AND CONDUIT SUPPORT DETAILS AND SECTION A-A.
5. ZINC COATED METAL CONDUIT SHALL BE USED, EXCEPT FOR CONDUIT THAT IS EXPOSED TO THE ATMOSPHERE. PVC COATED GALVANIZED STEEL CONDUIT SHALL BE USED FOR CONDUIT EXPOSED TO THE ATMOSPHERE.

30′ 0 30′ 60′
1" = 30′

CHECKED BY: J. ELMER
DRAFTED BY: J. DILL
DESIGNED BY: J. DILL
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 121401-2025_02_its_pln.dgn
DATE/TIME = 08/15/2025 07:31
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

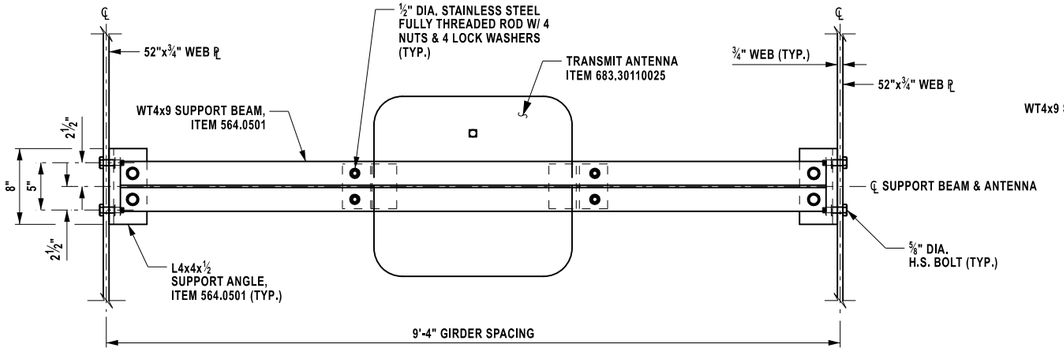
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

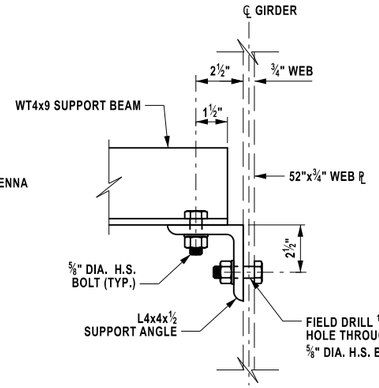
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: PROPOSED ITS PLAN	DRAWING NUMBER: ITS-1

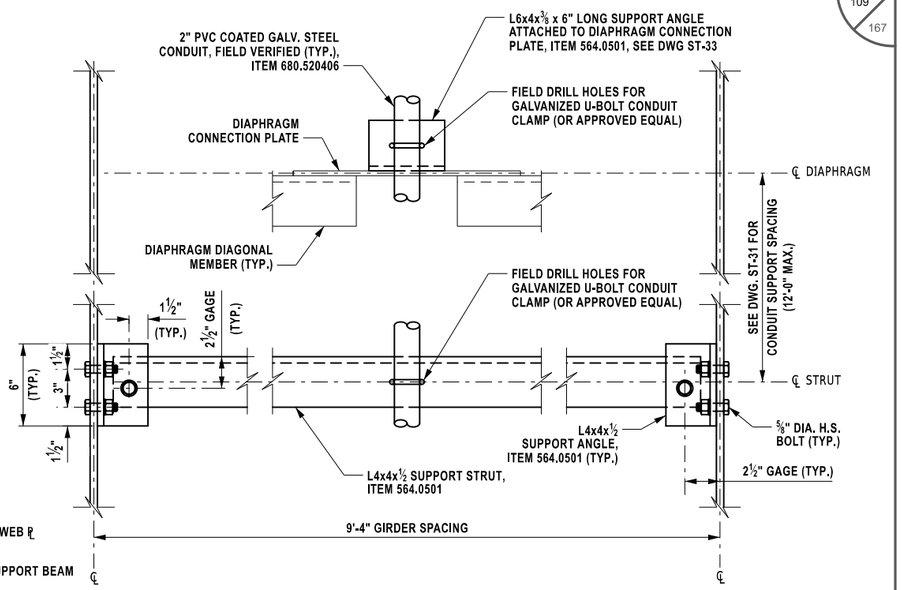


DIRECTION OF TRAFFIC

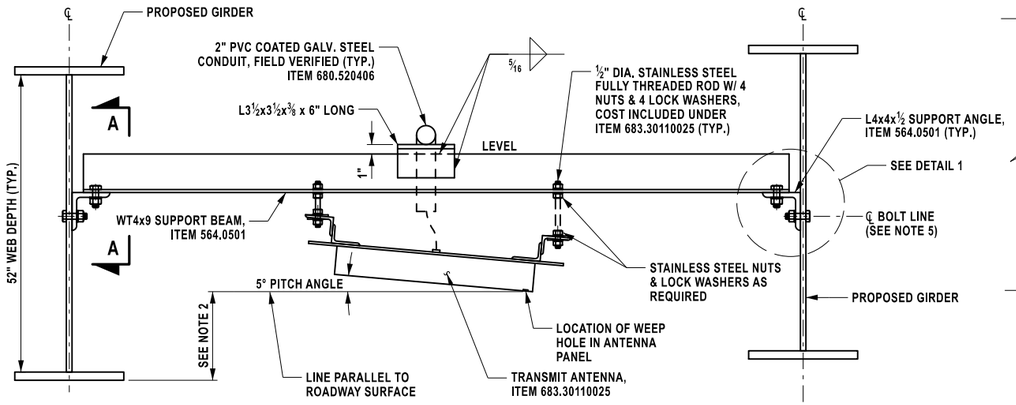
PLAN



DETAIL 1

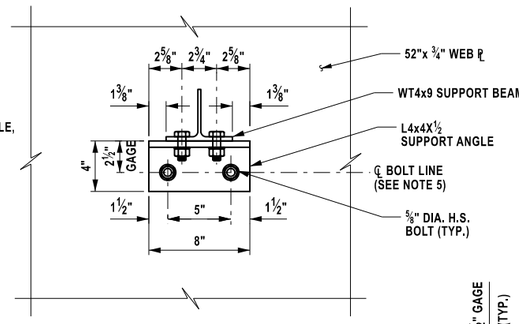


PARTIAL PLANS AT CONDUIT SUPPORTS

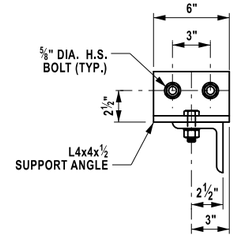


DIRECTION OF TRAFFIC

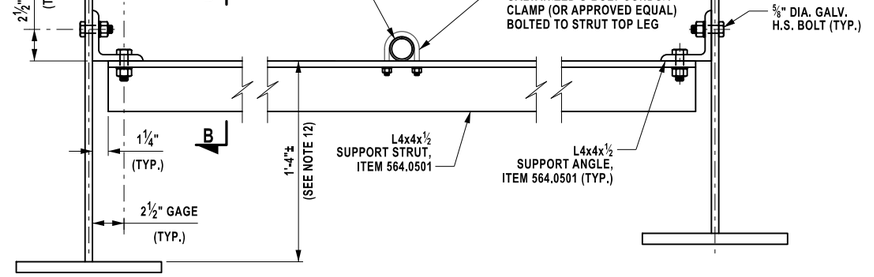
ELEVATION
(DECK OMITTED FOR CLARITY)



SECTION A-A



SECTION B-B



ELEVATION AT NEW CONDUIT SUPPORT STRUT

TRANSMIT ANTENNA SUPPORT & MOUNTING DETAILS
(NOT TO SCALE)

CONDUIT SUPPORT & MOUNTING DETAILS
NOT TO SCALE

ALL STRUCTURAL STEEL FOR THE ANTENNA AND CONDUIT SUPPORTS SHALL BE ASTM A709 GRADE 50.

ALL BOLTS SHALL BE ASTM F3125 GRADE A325 TYPE I WITH ASTM A563 DH HEAVY HEX NUTS & F436 TYPE I HARDENED WASHERS, U.N.O.

4 ANTENNA SUPPORTS ARE REQUIRED
8 CONDUIT SUPPORTS BETWEEN DIAPHRAGMS ARE REQUIRED
(SEE DWG ST-31 FOR LOCATION)

NOTES

1. THE ANTENNA AND CONDUIT SUPPORT DETAILS DEPICTED ARE CONCEPTUAL, CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ANTENNA AND CONDUIT SUPPORTS, IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (NYSSCM).
2. ALL CONDUIT, SUPPORTS AND ANTENNA OVER THE PAVED ROADWAY SURFACE SHALL BE POSITIONED SUCH THAT THE ANTENNA AND THEIR SUPPORTS ARE ABOVE THE BOTTOM FLANGE OF THE GIRDERS.
3. THE COST OF FURNISHING AND INSTALLING THE TRANSMIT ANTENNA & CONDUIT SUPPORT FRAMING SHALL BE INCLUDED IN ITEM 564.0501. THIS INCLUDES, BUT IS NOT LIMITED TO, PREPARATION OF SHOP DRAWINGS, FURNISHING OF SUPPORT MEMBERS, BOLTS, NUTS AND WASHERS AS DETAILED IN THE APPROVED SHOP DRAWINGS, GALVANIZING OF SUPPORT MEMBERS, AND FIELD DRILLING OF HOLES FOR ATTACHMENT OF THE SUPPORTS TO THE SUPERSTRUCTURE.
4. THE MOUNTING ANGLES SHALL BE BOLTED TO THE GIRDER WEBS AS SHOWN. HOLES FOR THE BOLTS SHALL BE FIELD LOCATED AND DRILLED. ALL BOLTS SHALL BE ⅝" DIA. GALV. HS BOLTS WITH 11/16" DIA. HOLES. COST FOR FIELD DRILLING INCLUDED IN THE UNIT PRICE BID FOR ITEM 564.0501.
5. CONTRACTOR SHALL FIELD DRILL THE HOLES THROUGH THE WEB OF GIRDERS G2 & G3 ONLY. UPON COMPLETION OF THE FIELD DRILLING, CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE METALIZED SURFACE OF THE GIRDERS TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REPAIRS NECESSARY DUE TO CONTRACTOR OPERATIONS.
6. FINAL ACCEPTANCE OF THE TRANSMITTER WILL REQUIRE VERIFICATION OF FUNCTIONALITY BY ITSM.
7. ALL SUPPORT MEMBERS, PLATES, SHAPES AND STRUCTURAL BOLTS SHALL BE GALVANIZED, EXCEPT AS NOTED. GALVANIZED STEEL SHALL CONFORM TO SUBSECTION 719-01 OF THE STANDARD SPECIFICATIONS. ALL ANTENNA SUPPORT HARDWARE, SUCH AS THREADED ROD, NUTS, AND WASHERS SHALL BE STAINLESS STEEL CONFORMING TO SUBSECTION 715-16 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.
8. ANTENNA COAXIAL CABLE (ITEM 680.77520025) SHALL BE INSTALLED IN 2" PVC COATED GALV. STEEL CONDUIT (ITEM 680.520406) U.N.O..
9. LOCK WASHERS OR JAM NUTS ARE REQUIRED ON ALL ANTENNA & CONDUIT SUPPORT STAINLESS STEEL BOLTED CONNECTIONS.
10. THE CENTERLINE OF THE SUPPORT MEMBER SHALL BE PERPENDICULAR TO THE WEBS OF THE GIRDERS THAT THEY FRAME INTO.
11. THE COST OF FURNISHING AND INSTALLING CONDUIT CLAMPS AND ALL NECESSARY HARDWARE SHALL BE INCLUDED IN ITEM 206.03120025.
12. FIELD VERIFY DIMENSION TO ALIGN CONDUIT WITH SUPPORTS AT DIAPHRAGMS PRIOR TO DRILLING HOLES.
13. FOR PLAN LOCATIONS OF THE ANTENNA, SEE DWG. NO. ITS-1. FOR LOCATION OF SUPPORT FRAMING SEE DWG. NO ST-31.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

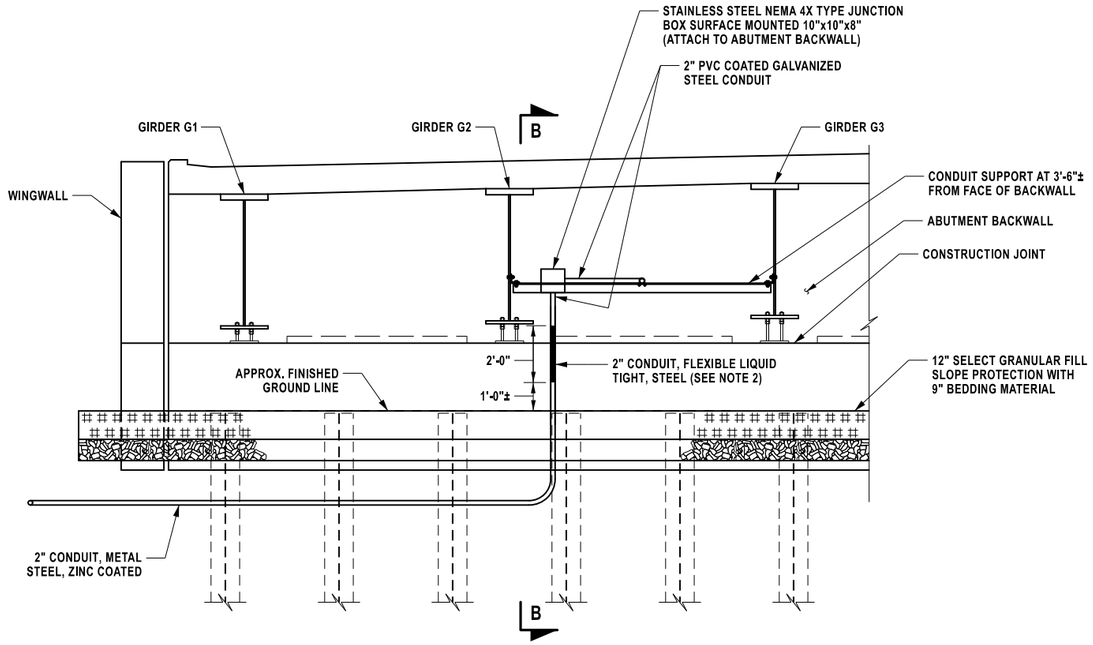
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

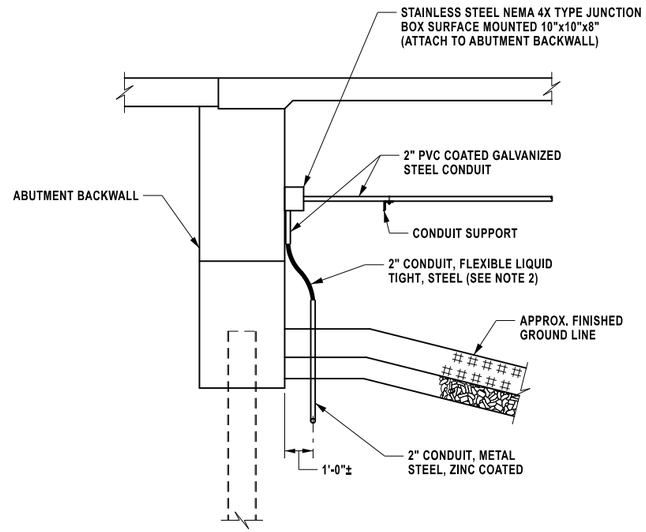
TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: TRANSMIT ANTENNA & CONDUIT SUPPORT DETAILS	DRAWING NUMBER: ITS-2

DESIGNED BY: M. SEIDEL
DRAFTED BY: A. MAIER
CHECKED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = P21481D_sht_02_its_dtl.dgn
DATE/TIME = 15-AUG-2025 07:31
USER = dhoerner



SECTION A-A
END ABUTMENT ELEVATION



SECTION B-B

NOTES
1. FOR LOCATION OF SECTION A-A SEE DWG. ITS-1.
2. THE FLEXIBLE CONDUIT SHALL NOT BE ATTACHED TO THE ABUTMENT BACKWALL. PROVIDE SLACK TO ACCOMMODATE 2" MOVEMENT OF ABUTMENT

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: M. SEIDEL
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
CHECKED BY: G. ARADHYA

FILE NAME = 121410-sht-02_its_etl_02.dgn
DATE/TIME = 12-AUG-2025 07:31
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

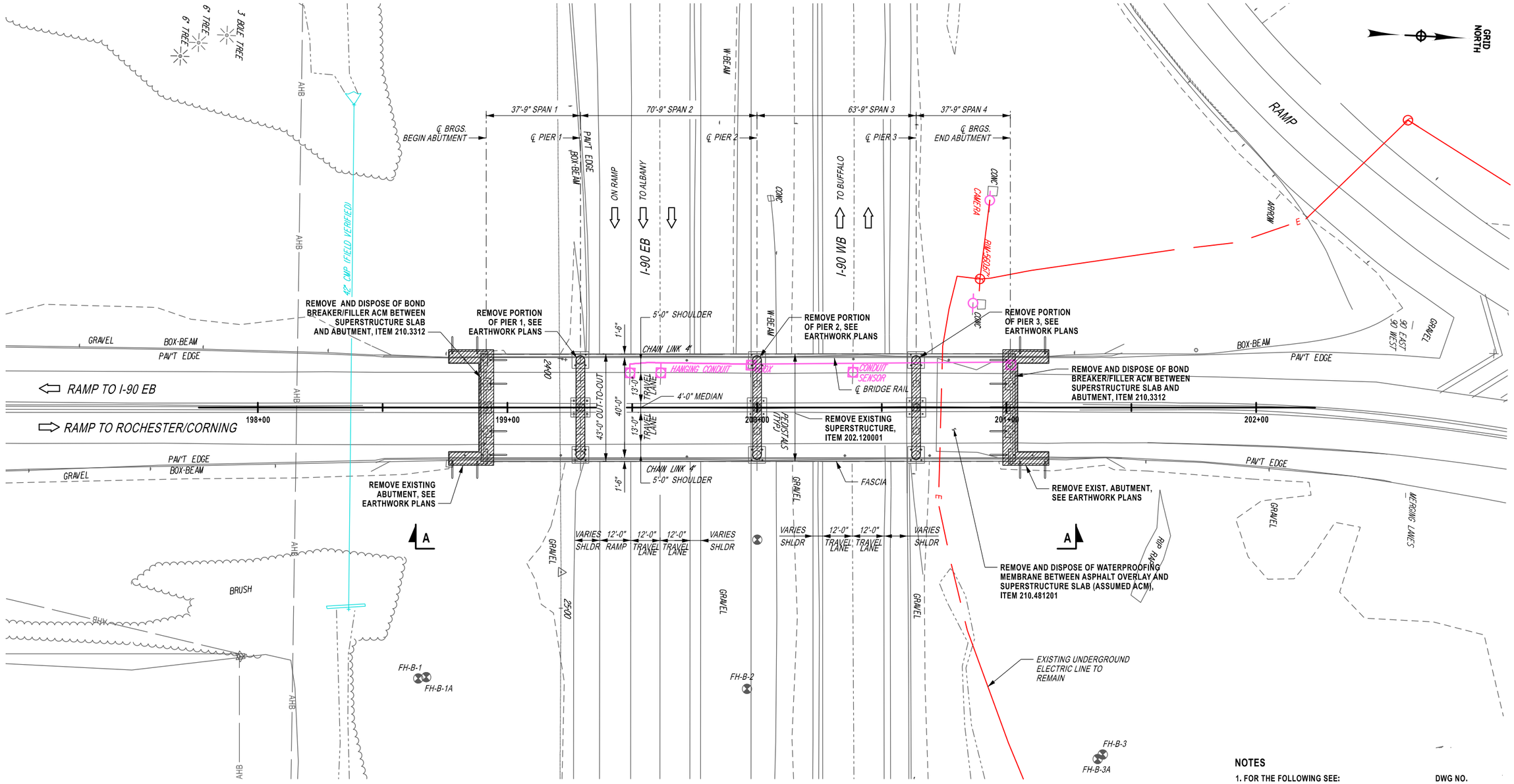
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	CONDUIT SUPPORT DETAILS AT ABUTMENT
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ITS-3



EXISTING PLAN

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. GENERAL PLAN GNP-02
   - B. REMOVAL ELEVATION A-A ST-2
   - C. EARTHWORK PLANS ..... ST-11 THRU ST-15

LEGEND

▨ - LIMIT OF REMOVAL OF SUBSTRUCTURES, ITEM 202.19

30′ 0 30′ 60′

1" = 30′

DESIGNED BY: M. SEIDEL
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
CHECKED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 121-4810-202_02_gen_05.dgn
DATE/TIME = 8/15/2025 7:31
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

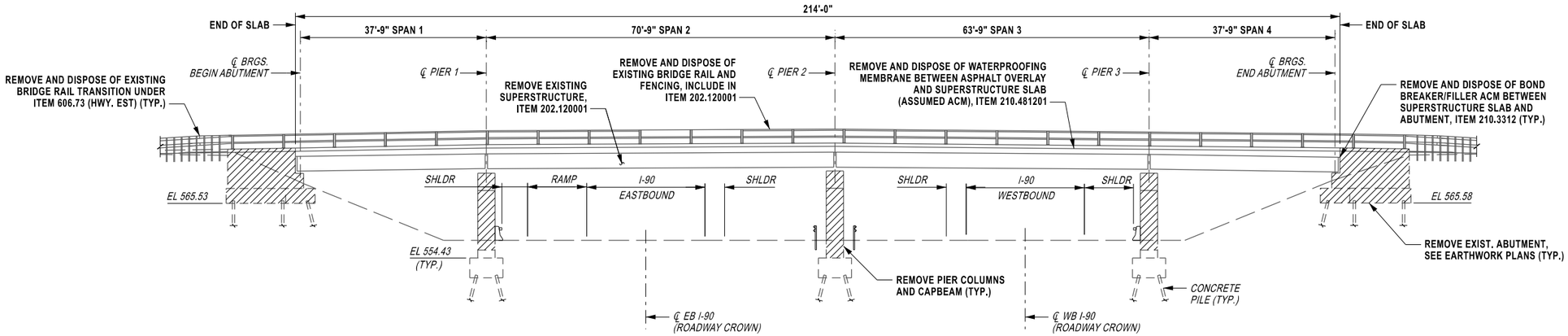
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: EXISTING BRIDGE PLAN	DRAWING NUMBER: ST-1



DATUM 530

REMOVAL ELEVATION A-A

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. GENERAL PLAN GNP-02
   - B. LOCATION OF REMOVAL ELEVATION A-A ST-1
   - C. EARTHWORK PLANS ..... ST-11 THRU ST-15
2. EXISTING SUBSTRUCTURE ELEVATIONS ARE REFERENCED TO NAVD 88 VERTICAL DATUM. ELEVATIONS SHOWN ON THE OT 52-24 RECORD PLANS ARE IN NGVD 29 VERTICAL DATUM. NAVD 88 = NGVD 29 - 0.57'.

LEGEND

▨ - LIMIT OF REMOVAL OF SUBSTRUCTURES, ITEM 202.19

25′ 0 25′ 50′

1" = 25′

DESIGNED BY: M. SEIDEL
CHECKED BY: M. SEIDEL
DRAFTED BY: A. MAIER
CHECKED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 121-4810_sh_02_gnr_06.dgn
DATE/TIME = 12-AUG-2025 07:31
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS NO. 084906 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: EXISTING BRIDGE ELEVATION	DRAWING NUMBER: ST-2

DESIGNED BY: M. SEIDEL
CHECKED BY: M. SEIDEL
DRAFTED BY: A. MAIER
CHECKED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 021A810_205_02_gen_07.dgn
DATE/TIME = 12-AUG-2025 07:31
USER = dhoerner

GRID NORTH

I-90 EB

ON RAMP

TO ALBANY

I-90 WB

TO BUFFALO

AVE W

CMC

EXISTING CAMERA POLE AND TRAFFIC/ELECTRIC CABINET

BOX-BEAM PAV'T EDGE

AHB

ST

42" CMP (FIELD VERIFIED)

5'-0" SHLDR

HANGING CONDUIT

JBOX

CONDUIT SENSOR

13'-0" TRAVEL LANE

4'-0" MEDIAN

43'-0" OUT-TO-OUT

PEDS/AS

REMOVE EXISTING BRIDGE

W 10+00

SINGLE SLOPE (HALF SECTION) CONCRETE BRIDGE BARRIER (TYP.), ITEM 569.04

TRANSITION BRIDGE RAILING (TYP.), ITEM 568.70

STONE DRAIN (TYP.)

PAV'T EDGE

BOX-BEAM

1'-6"

11'-8"±

POINT OF MIN. VERTICAL CLEARANCE

6'-0" SHLDR

RAMP TO I-90 EB

22'-0" APPR. SLAB

SLEEPER SLAB

BOX BEAM MEDIAN BARRIER FOR STRUCTURES, ITEM 606.11000016

AZ 357°05'46.5"

14'-0" TRAVEL LANE

9'-0" MEDIAN

52'-0" OUT-TO-OUT

14'-0" TRAVEL LANE

6'-0" SHLDR

24'-6" MIN. CLEAR

90°00'00" (TYP.)

RAMP A HCL, TGL, & POR

EQUALITY STA A 21+46.98 = STA E 10+59.28

EQUALITY STA A 22+24.68 = STA W 10+59.31

A 20+00

A 21+00

A 22+00

A 23+00

A 24+00

RAMP TO ROCHESTER/CORNING

APPROACH PAV'T ENDS STA A 20+31.42

BRIDGE BEGINS STA A 20+55.42

42" RCP CULVERT EXTENSION

3'-0" (TYP.)

SELECT GRANULAR FILL SLOPE PROTECTION (TYP.), ITEM 203.0801

1'-6"

E 11+00

W 11+00

VARIES SHLDR.

12'-0" RAMP

12'-0" TRAVEL LANE

12'-0" TRAVEL LANE

VARIES SHLDR.

VARIES SHLDR.

12'-0" TRAVEL LANE

12'-0" TRAVEL LANE

VARIES SHLDR.

FH-B-1A

FH-B-1

FH-B-2

AZ 267°05'46.5"

PROTECTIVE SCREENING (SNOW FENCE) (TYP.), ITEM 607.06120025

EXISTING UNDERGROUND ELECTRIC TO REMAIN

℄ BEARINGS END ABUTMENT STA A 23+16.25

℄ BEARINGS BEGIN ABUTMENT STA A 20+56.25

℄ EXP. BRGS. PIER STA A 21+86.25

FH-B-3

FH-B-3A

U-WINGWALL (TYP.)

BRIDGE ENDS STA A 23+17.08

APPROACH PAV'T BEGINS STA A 23+41.08

130'-0" SPAN 1

130'-0" SPAN 2

260'-0"

PROPOSED PLAN

NOTE

1. FOR THE FOLLOWING SEE: DWG NO.
   A. PROPOSED ELEVATION A-A ST-4

30' 0 30' 60'

1" = 30'

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

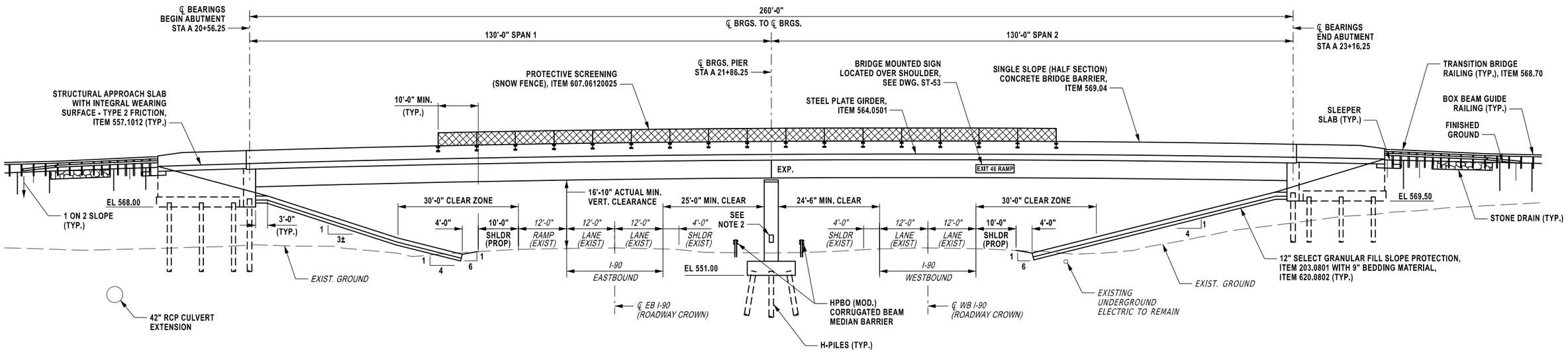
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: PROPOSED BRIDGE PLAN

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-3



ELEVATION A-A

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. LOCATION OF ELEVATION A-A ST-3
2. INSTALL MILE POST MARKER ON BOTH FACES OF PIER, MILE POST MARKER TO BE SUPPLIED BY THE AUTHORITY.

25′ 0 25′ 50′
1" = 25′

DESIGNED BY: M. SEIDEL
DRAFTED BY: A. MAIER
CHECKED BY: G. ARADHYA
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 121-4610-sht-02_gen_08.dgn
DATE/TIME = 8/15/2025 07:31
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

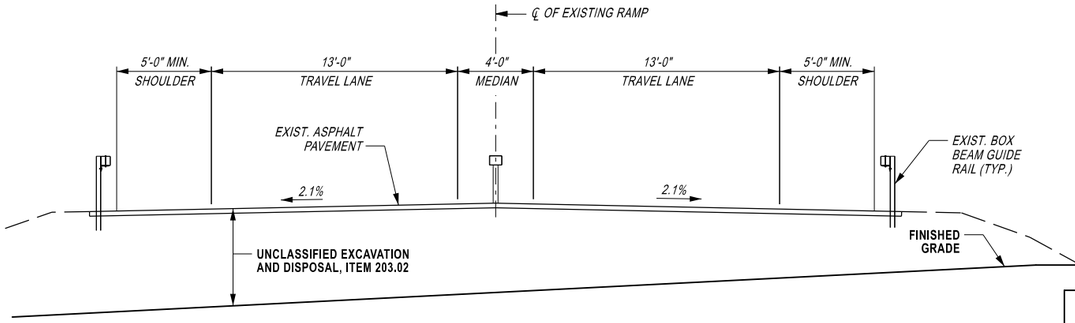
REVISIONS

DATE	DESCRIPTION	BY	SYM.

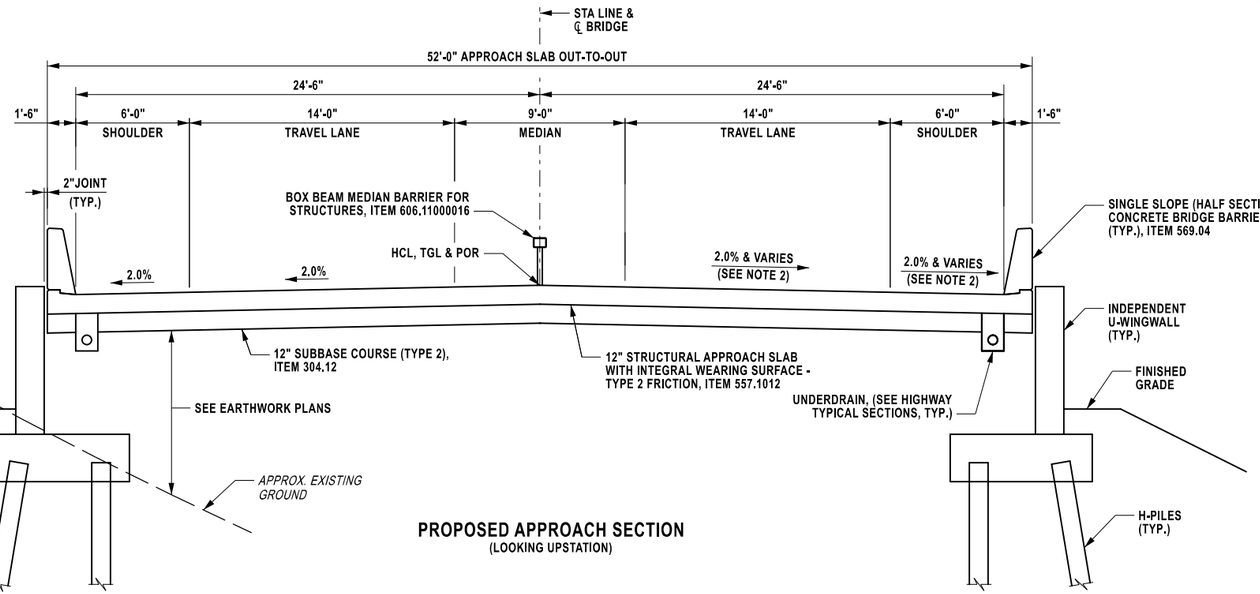
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

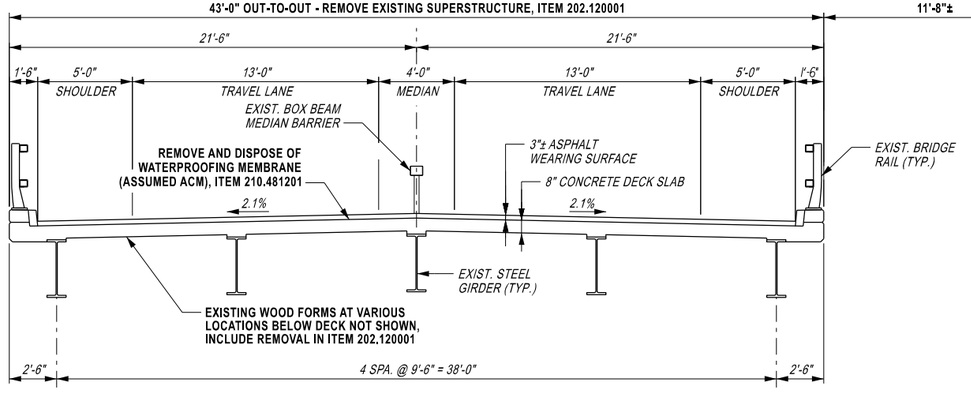
TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: PROPOSED BRIDGE ELEVATION	DRAWING NUMBER: ST-4



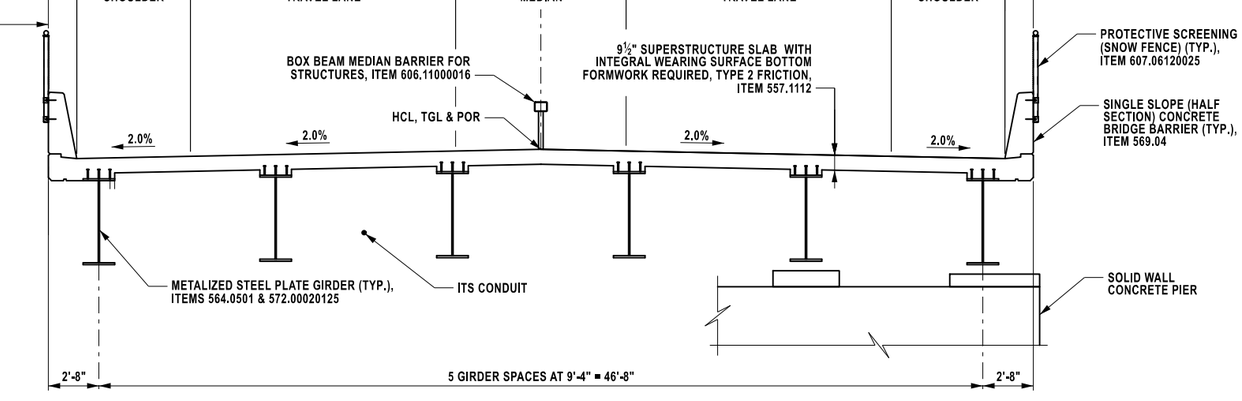
EXISTING APPROACH SECTION
(LOOKING UPSTATION)



PROPOSED APPROACH SECTION
(LOOKING UPSTATION)



EXISTING BRIDGE SECTION
(LOOKING UPSTATION)



PROPOSED BRIDGE SECTION
(LOOKING UPSTATION)

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · BRETT D. REYNOLDS · No. 084906 · LICENSED PROFESSIONAL ENGINEER

NOTES

1. REMOVAL OF EXISTING BRIDGE RAIL, FENCING AND BOX BEAM MEDIAN BARRIER ON THE BRIDGE SLAB SHALL BE INCLUDED IN ITEM 202.120001
2. SEE DWG. PRO-02 FOR BEGIN APPROACH CROSS SLOPE TRANSITION

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

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: EXISTING & PROPOSED TYPICAL SECTIONS

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-5

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: A. MAIER
DESIGNED BY: M. SEIDEL
CHECKED BY: G. ARADHYA

FILE NAME = 021481D_cpb_02_esc_03.dgn
DATE/TIME = 8/15/2025 07:32
USER = dhoerner

INDEX OF DRAWINGS		
SHEET NO.	DRAWING NO.	DESCRIPTION
111	ST-1	EXISTING BRIDGE PLAN
112	ST-2	EXISTING BRIDGE ELEVATION
113	ST-3	PROPOSED BRIDGE PLAN
114	ST-4	PROPOSED BRIDGE ELEVATION
115	ST-5	EXISTING & PROPOSED TYPICAL SECTIONS
116	ST-6	INDEX OF DRAWINGS
117	ST-7	BRIDGE GENERAL NOTES (SHEET 1 OF 2)
118	ST-8	BRIDGE GENERAL NOTES (SHEET 2 OF 2)
119	ST-9	BORING LOCATION PLAN
120	ST-10	GENERAL SUBSURFACE PROFILE
121	ST-11	EARTHWORK (SHEET 1 OF 5)
122	ST-12	EARTHWORK (SHEET 2 OF 5)
123	ST-13	EARTHWORK (SHEET 3 OF 5)
124	ST-14	EARTHWORK (SHEET 4 OF 5)
125	ST-15	EARTHWORK (SHEET 5 OF 5)
126	ST-16	BEGIN ABUTMENT PLAN AND ELEVATION
127	ST-17	BEGIN ABUTMENT PILE LAYOUT
128	ST-18	BEGIN ABUTMENT REINFORCEMENT
129	ST-19	BEGIN ABUTMENT WINGWALL REINFORCEMENT
130	ST-20	PIER PLAN AND ELEVATION
131	ST-21	PIER DETAILS (SHEET 1 OF 2)
132	ST-22	PIER DETAILS (SHEET 2 OF 2)
133	ST-23	END ABUTMENT PLAN AND ELEVATION
134	ST-24	END ABUTMENT PILE LAYOUT
135	ST-25	END ABUTMENT REINFORCEMENT
136	ST-26	END ABUTMENT WINGWALL REINFORCEMENT
137	ST-27	ABUTMENT DETAILS
138	ST-28	BEARING DETAILS (SHEET 1 OF 2)
139	ST-29	BEARING DETAILS (SHEET 2 OF 2)
140	ST-30	TRANSVERSE BRIDGE SECTION

INDEX OF DRAWINGS		
SHEET NO.	DRAWING NO.	DESCRIPTION
141	ST-31	FRAMING PLAN
142	ST-32	GIRDER ELEVATION AND SECTIONS
143	ST-33	DIAPHRAGM DETAILS
144	ST-34	GIRDER SPLICE DETAILS
145	ST-35	MOMENT, SHEAR AND DESIGN LOAD TABLES
146	ST-36	CAMBER TABLE
147	ST-37	HAUNCH TABLE
148	ST-38	SUPERSTRUCTURE SLAB DETAILS
149	ST-39	APPROACH SLAB DETAILS (SHEET 1 OF 2)
150	ST-40	APPROACH SLAB DETAILS (SHEET 2 OF 2)
151	ST-41	BARRIER LAYOUT PLAN
152	ST-42	BARRIER REINFORCEMENT DETAILS
153	ST-43	SINGLE SLOPE CONCRETE BARRIER DETAILS
154	ST-44	MEDIAN BARRIER DETAILS
155	ST-45	BOX BEAM TRANSITION DETAILS (SHEET 1 OF 4)
156	ST-46	BOX BEAM TRANSITION DETAILS (SHEET 2 OF 4)
157	ST-47	BOX BEAM TRANSITION DETAILS (SHEET 3 OF 4)
158	ST-48	BOX BEAM TRANSITION DETAILS (SHEET 4 OF 4)
159	ST-49	APPROACH DRAINAGE DETAILS (SHEET 1 OF 2)
160	ST-50	APPROACH DRAINAGE DETAILS (SHEET 2 OF 2)
161	ST-51	SNOW FENCING
162	ST-52	MISCELLANEOUS DETAILS (SHEET 1 OF 2)
163	ST-53	MISCELLANEOUS DETAILS (SHEET 2 OF 2)
164	ST-54	BAR BENDING DIAGRAM
165	ST-55	BAR LIST (SHEET 1 OF 3)
166	ST-56	BAR LIST (SHEET 2 OF 3)
167	ST-57	BAR LIST (SHEET 3 OF 3)

DESIGNED BY: M. SEIDEL
CHECKED BY: M. SEIDEL
DRAFTED BY: M. MURPHY
CHECKED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 021481D_sht_02_INDEX_ind_01.dgn
DATE/TIME = 08/15/2025 07:32
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · BRETT D. REYNOLDS · No. 084906 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
INDEX OF DRAWINGS

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-6

GENERAL NOTES

1. DESIGN SPECIFICATIONS: NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF AUGUST 2025 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: f'c = 4,000 psi, STEEL REINFORCEMENT: 60 ksi.)
2. CONSTRUCTION SPECIFICATIONS: NYSDOT STANDARD SPECIFICATIONS - CONSTRUCTION AND MATERIALS WITH ALL PROVISIONS IN EFFECT AS SHOWN ON THE FRONT COVER OF THE PROPOSAL.
3. THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT VERSION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.
4. THE LOAD RATINGS ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION.
5. DESIGN LIVE LOAD: AASHTO HL-93.
6. ALL BAR REINFORCEMENT SHALL BE ASTM A615 GRADE 60. BARS SHALL BE GALVANIZED AND FABRICATED IN ACCORDANCE WITH ASTM A767 AND MEET THE REQUIREMENTS OF NYSDOT MATERIAL SPECIFICATION 709-11.
7. ALL METAL REINFORCING BAR CHAIRS AND SUPPORTS SHALL HAVE PLASTIC SHOES.
8. WHEN JOINING FRESH CONCRETE TO NEW CONCRETE WHICH HAS ALREADY SET THE CONCRETE IN PLACE SHALL HAVE ITS SURFACE SCOURED OR ABRADED WITH A SUITABLE TOOL TO REMOVE ALL LOOSE AND FOREIGN MATERIALS. THIS SURFACE SHALL BE SCRUBBED WITH WIRE BROOMS. AFTER THE SURFACE PREPARATION HAS BEEN ACCEPTED, THIS SURFACE SHALL BE THOROUGHLY WET AND KEPT SO FOR A PERIOD OF 12 HOURS IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. THIS MAY BE ACCOMPLISHED BY CONTINUOUS WETTING WITH SOAKER HOSES OR THE USE OF BURLAP/BURLENE/ETC. SO THAT MOISTURE CAN BE MAINTAINED. IF, IN THE OPINION OF THE ENGINEER, CONDITIONS OR THE SITUATION PROHIBITS THIS, THEN THE SURFACES SHALL BE WETTED FOR AS LONG AS POSSIBLE AT THE DISCRETION OF THE ENGINEER. THE CONTRACTOR SHALL REMOVE ANY PUDDLES OR FREE-STANDING WATER WITH OIL-FREE COMPRESSED AIR, AND PROTECT THE SURFACES FROM DRYING, SO THAT THE EXISTING CONCRETE REMAINS IN A CLEAN, SATURATED, SURFACE DRY CONDITION UNTIL PLACEMENT OF THE NEW CONCRETE. IMMEDIATELY BEFORE PLACING THE NEW CONCRETE, THE FORMS SHALL BE DRAWN TIGHT AGAINST CONCRETE ALREADY IN PLACE.
9. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONALLY AND ARE FULLY DIMENSIONED.
10. ALL SHOP DRAWINGS FOR THIS PROJECT SHALL BE PREPARED IN U.S. CUSTOMARY UNITS.
11. MATERIALS CONTAINING ASBESTOS ARE BELIEVED TO EXIST AT VARIOUS LOCATIONS ON OR IN THE STRUCTURE(S) CONTAINED IN THIS CONTRACT. THESE MATERIALS WERE NOTED ON THE ORIGINAL CONTRACT PLANS OF THE STRUCTURE(S) AND/OR ENCOUNTERED DURING FIELD INSPECTIONS. ALL KNOWN ASBESTOS CONTAINING MATERIALS HAVE BEEN INDICATED IN THE CONTRACT DOCUMENTS .

FOUNDATION NOTES

1. EMBANKMENT IN PLACE, ITEM 203.03 AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
2. THE COST OF WATER USED FOR COMPACTION OF THE SELECT STRUCTURAL FILL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 SELECT STRUCTURE FILL.
3. THE COST OF WATER USED FOR COMPACTION OF EMBANKMENT IN PLACE MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.03 EMBANKMENT IN PLACE.

PILE NOTES

1. REFER TO THE SPECIAL NOTE IN THE PROPOSAL TITLED "SECTION 551 PILES AND PILE DRIVING EQUIPMENT, FURNISHING EQUIPMENT AND PERSONNEL DYNAMIC LOAD TESTING OF PILES", NOTIFY THE ENGINEER THREE WORKING DAYS PRIOR TO DYNAMIC PILE TESTING.
2. THE DYNAMIC PILE TEST WILL CONSIST OF ONE TEST AT INITIAL DRIVE AND A RESTRIKE AFTER A 72 HOUR WAITING PERIOD. ADDITIONAL PILES MAY BE DRIVEN DURING THIS TIME, STARTING A MINIMUM DISTANCE OF 10 FEET FROM THE TEST PILE AND PROGRESSING AWAY FROM THE TEST PILE.
3. IF LESS THAN 5 KIPS OF CAPACITY IS OBSERVED TO BE LOST AFTER 72 HOURS, FURTHER RESTRIKES ARE NOT REQUIRED. IF MORE THAN 5 KIPS OF CAPACITY IS OBSERVED TO BE LOST AFTER 72 HOURS, AN ADDITIONAL RESTRIKE AT 7 DAYS AFTER INSTALLATION IS REQUIRED.
4. PROVIDE STEEL H-PILES MEETING THE REQUIREMENTS OF ASTM A572 GRADE 50 STEEL.
5. EQUIP ALL STEEL BEARING PILES WITH REINFORCED SHOES.
6. EQUIP ALL STEEL BEARING PILES WITH APF HP77750 OR EQUIVALENT.
7. MECHANICAL PILE SPLICES ARE PROHIBITED.
8. PREDRILLED HOLES SHALL BE BACKFILLED WITH SAND MEETING THE REQUIREMENTS OF MATERIAL SPECIFICATION 703-06, CUSHION SAND. THE COST OF BACKFILLING IS INCLUDED IN ITEM 551.03020017.
9. PREDRILLED HOLES SHALL BE KEPT OPEN FOR PILE INSTALLATION AND BACKFILLING WITH THE USE OF A TEMPORARY STEEL CASING, THE COST OF THE TEMPORARY STEEL CASING IS INCLUDED IN ITEM 551.03020017.
10. WHEN PILES ARE TO BE PLACED THROUGH THE EMBANKMENT (6 INCHES MAXIMUM TOPSIZE), THE EMBANKMENT SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.

SUBSTRUCTURE NOTES

1. THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, MAY ELECT TO INTRODUCE CONSTRUCTION JOINTS IN THE ABUTMENTS AND/OR WINGWALLS AT LOCATIONS NOT SHOWN IN THE PLANS. CONSTRUCTION JOINTS SHALL BE PROVIDED WITH SHEAR KEYS AND WATERSTOPS. VERTICAL CONSTRUCTION JOINTS INTRODUCED IN THE ABUTMENTS AND/OR WINGWALLS SHOULD PREFERABLY BE PLACED MIDWAY BETWEEN THE PEDESTALS.
2. THE COST OF ALL JOINT MATERIAL AND WATERSTOPS AT CONCRETE CONSTRUCTION JOINTS, CONTRACTION AND EXPANSION JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS CONCRETE ITEMS IN THE CONTRACT.
3. WHERE WEEP HOLES ARE SHOWN IN ABUTMENTS AND WALLS, THE PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN MATERIALS SHALL BE PROVIDED WITH A POSITIVE OUTLET FOR THE WATER IN THE DRAIN MATERIAL TO FLOW INTO THE WEEP. THIS MAY INVOLVE MAKING A HOLE IN THE CORE AT THE WEEP HOLE LOCATIONS FOR APPROVED DRAINS WITH AN IMPERMEABLE CORE. DO NOT PUNCTURE THE GEOTEXTILE. ANY DAMAGED GEOTEXTILE SHALL BE REPAIRED.
4. CONSTRUCTION EQUIPMENT (INCLUDING ERECTION CRANES) PLACED BEHIND ALL NEW ABUTMENTS AND WINGWALLS SHALL BE PLACED OUTSIDE THE LOCATION OF A 1:1 SOIL SLOPE FAILURE PLANE UNTIL THE DECK CONCRETE HAS BEEN FULLY POURED AND CURED FOR AT LEAST 7 DAYS.

CONCRETE PLACEMENT NOTES

1. THE METHODS TO BE USED TO CONTROL THE TEMPERATURE OF THE CONCRETE AS PLACED AND THE TEMPERATURE OF THE IN-PLACE CONCRETE DURING CURING SHALL BE SUBMITTED TO THE ENGINEER BY THE CONTRACTOR.
2. DURING CURING, THE MAXIMUM CONCRETE TEMPERATURE SHALL NOT EXCEED 160°F.
3. THE MAXIMUM TEMPERATURE DIFFERENTIAL BETWEEN CENTER AND SURFACE OF PLACEMENT SHALL NOT EXCEED 35°F OVER 28 DAYS.
4. TEMPERATURE SENSORS ARE REQUIRED FOR VERIFICATION OF THE REQUIREMENTS LISTED ABOVE. THE SENSORS SHALL BE APPROVED BY THE ENGINEER AND INSTALLED IN THE PIER AT THE CENTER OF THE POUR AND 2 INCHES FROM THE SURFACE. COST OF THE SENSORS SHALL BE INCLUDED IN ITEM 555.0021 .

SUPERSTRUCTURE NOTES

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709, GRADE 50.
2. FOR THE VARIOUS LUMP SUM STRUCTURAL STEEL ITEMS IN THE CONTRACT, THE "ESTIMATE OF TOTAL WEIGHT" AS FOLLOWS:

   ITEM 564.0501 584,000 LB.

   THE "ESTIMATE TOTAL WEIGHT" SHALL BE USED TO DOCUMENT THE ENGINEER'S ESTIMATED AMOUNT OF STRUCTURAL STEEL REQUIRED FOR THE CONTRACT. UNDER NO CIRCUMSTANCES SHALL THESE WEIGHTS BE USED FOR FINAL PAYMENT PURPOSES. THE CONTRACTOR IS ADVISED NOT TO USE THESE WEIGHTS AS A BIDDING TOOL. DISCREPANCIES BETWEEN THE TOTAL WEIGHT SHIPPED AND THE "ESTIMATE OF TOTAL WEIGHT" SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION.
3. DIAPHRAGMS SHALL BE FABRICATED TO FIT GIRDERS ERECTED WITH THEIR WEBS PLUMB UNDER THE STEEL DEAD LOAD CONDITIONS, ALSO KNOWN AS STEEL DEAD LOAD FIT (SDLF).

METALIZING NOTES

1. ALL GIRDERS, INCLUDING STIFFENERS AND CONNECTION PLATES, SHALL BE METALIZED. THE COST OF METALIZING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 572.00020125 - METALIZING.
2. ALL PRIMARY AND SECONDARY MEMBERS (DIAPHRAGMS, LATERAL BRACING, SHIMS, ETC.) SHALL BE METALIZED. THE COST OF METALIZING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 572.00020125 - METALIZING. THE CONTRACTOR HAS THE OPTION OF HOT-DIP GALVANIZING THE SECONDARY MEMBERS. IF THE CONTRACTOR ELECTS TO HOT-DIP GALVANIZE THESE MEMBERS, HOT-DIP GALVANIZING SHALL MEET THE REQUIREMENTS OF §719- 01 TYPE I OF THE NYSDOT STANDARD SPECIFICATIONS CONSTRUCTION AND MATERIALS. THE COST OF THE HOT-DIP GALVANIZING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 572.00020125 - METALIZING.
3. ALL EXPOSED STEEL COMPONENTS OF BRIDGE BEARINGS, INCLUDING THE SOLE PLATE AND THE MASONRY PLATE, SHALL BE METALIZED. THE COST OF METALIZING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 572.00020125 - METALIZING.
4. ALL BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
5. DRILLED HOLES SHALL BE CLEANED OF ALL EXCESS MATERIAL THAT PREVENTS THE PROPER INSTALLATION OF THE BOLTS.

STEEL ERECTION NOTES

1. THE CONTRACTOR SHALL PROVIDE FOR THE STABILITY OF STRUCTURAL STEEL DURING ALL PHASES OF ERECTION AND CONSTRUCTION, AS PROVIDED IN SECTION 2, SUBSECTION 204 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). THE MEANS AND METHODS USED BY THE CONTRACTOR SHALL BE DOCUMENTED ON THE ERECTION DRAWINGS AND INCLUDED IN THE SUPPORTING STABILITY CALCULATIONS. THE ERECTION DRAWINGS AND STABILITY CALCULATIONS SHALL BE SEALED BY A REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH THE SCM.
2. THE DESIGN OF THIS STRUCTURE ASSUMES THAT THE STRUCTURAL STEEL IS COMPLETELY ERECTED BEFORE IT IS ALLOWED TO DEFLECT UNDER ITS OWN DEAD LOAD. DEFLECTIONS INCURRED DURING THE VARIOUS STAGES OF THE ERECTION ARE NOT CONSIDERED. THEREFORE, THE ACTUAL ERECTION MEANS AND METHODS EMPLOYED BY THE CONTRACTOR MAY HAVE A SUBSTANTIAL EFFECT ON THE FINAL STEEL PROFILE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE FINAL ALIGNMENT AND PROFILE OF THE ERECTED STEEL CONFORMS TO SECTION 12, SUBSECTIONS 1213, 1214, AND 1215 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). ANY CORRECTIVE WORK NECESSARY TO RE-POSITION PREVIOUSLY ERECTED STEEL TO ACHIEVE ACCEPTABLE ALIGNMENT AND PROFILE SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH THE SCM. ANY CORRECTIVE WORK NECESSARY SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE AUTHORITY.
3. WHEN TRAFFIC STOPPAGES ARE REQUIRED AS PART OF THE STRUCTURAL STEEL ERECTION PROCEDURE, THE CONTRACTOR MAY REQUEST APPROVAL TO RELEASE TRAFFIC PRIOR TO THE REMOVAL OF THE GIRDER EXTERNAL SUPPORTS. WHEN REQUESTING THIS APPROVAL, THE CONTRACTOR SHALL SUBMIT FOR REVIEW, A SET OF CALCULATIONS PREPARED AND STAMPED BY A NYS LICENSED ENGINEER INDICATING THE LOCATION AND MINIMUM NUMBER OF BOLTS REQUIRED TO BE INSTALLED IN THE SPLICE TO SUPPORT THE GIRDER DEAD LOAD. THE CAPACITY OF THE MINIMUM NUMBER OF BOLTS REQUIRED IN THE SPLICE SHALL BE TWICE THE GIRDER DEAD LOAD FOR SHEAR AND MOMENT AT THE SPLICE LOCATION. THE BOLTS MUST BE THE SAME NOMINAL DIAMETER AND SPECIFICATION AS THE FINAL BOLTS AND MUST BE TIGHTENED UNTIL THERE IS NO GAP BETWEEN THE CONNECTED PARTS. A MINIMUM OF TWO HIGH STRENGTH BOLTS MUST BE INSTALLED IN EACH OF THE GIRDER FLANGES AND WEB SPLICE PLATES AT EACH END OF THE ABUTTING GIRDERS (A MINIMUM OF 12 BOLTS). ANY SUBSEQUENT LOOSENING OF THE BOLTS FOR ALIGNMENT OF THE GIRDER SPLICE PLATES SHALL REQUIRE TRAFFIC BENEATH THE GIRDER TO BE HALTED UNTIL THE ALIGNMENT AND RE-TIGHTENING OF THE BOLTS IS COMPLETED. UNDER NO CIRCUMSTANCES SHALL EXTERNAL SUPPORT OF THE GIRDER BE REMOVED UNTIL THE REQUIREMENTS OF SECTION 14 OF THE NYSSCM HAVE BEEN MET.
4. IF THE CONTRACTOR ELECTS TO MOVE THE SPLICE LOCATION SHOWN IN THE PLANS, THE CONTRACTOR SHALL HAVE A REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER REDESIGN THE SPLICE. THE SHOP DRAWINGS AND DESIGN CALCULATIONS FOR THE REDESIGNED SPLICE SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH THE SCM. THE COST OF REDESIGN SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS STEEL ITEMS.

STEEL CONSTRUCTION NOTES

1. THE FOLLOWING STRUCTURE COMPONENTS SHALL USE STANDARD SIZED HOLES: GIRDER SPLICES. OVERSIZE HOLES MAY BE USED FOR DIAPHRAGMS, CONNECTION PLATES, AND LATERAL BRACING PROVIDED THE HOLES MEET THE REQUIREMENTS GIVEN IN SECTIONS 203.10 AND 614.2 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). IF OVERSIZED HOLES ARE USED FOR DIAPHRAGMS, FULL SHOP ASSEMBLY IN ACCORDANCE WITH SECTION 1103.4.5 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM) IS WAIVED.
2. DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.

SUPERSTRUCTURE SLAB NOTES

1. THE PROVISIONS OF THE CURRENT SPECIFICATIONS FOR SUPERSTRUCTURE SLABS ALLOW THE OPTION OF 3 FORMING SYSTEMS FOR THE SLABS.
2. ON THIS BRIDGE, ONLY THE FOLLOWING OPTION(S) WILL BE PERMITTED:

   -PERMANENT CORRUGATED METAL FORMS
   -REMOVABLE WOODEN FORMS
3. IN ORDER TO PREVENT MOVEMENT OF THE BRIDGE OVERHANG BRACKET DURING THE DECK CONCRETE PLACEMENT, AS WELL AS TO PREVENT LATERAL DISTORTION OF THE GIRDER WEB, A DEEP OVERHANG BRACKET THAT IS BRACED BY THE BOTTOM FLANGE SHALL BE USED.
4. THE CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE HAUNCH DETAILS SHOWN IN THE PLANS WITHOUT THE PERMISSION OF THE ENGINEER.
5. THE DETAILS FOR THE BARRIER REINFORCEMENT ARE FOR THE SLIP-FORMED OR CAST-IN-PLACE OPTION ONLY. COST OF BARRIER AND ANCHORAGE REINFORCEMENT ORIGINATING IN THE DECK AND APPROACH SLABS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BARRIER ITEM.
6. THE SPECIFICATIONS FOR PERMANENT CONCRETE TRAFFIC BARRIER FOR STRUCTURES ALLOWS THE OPTION OF THREE CONSTRUCTION METHODS: CAST-IN-PLACE, SLIP FORMED, OR PRECAST. FOR THIS BRIDGE, ONLY CAST-IN- PLACE AND SLIP FORMING ARE ALLOWED.
7. TOP SURFACES OF NEW BRIDGE DECKS AND APPROACH SLABS SHALL BE SEALED IN ACCORDANCE WITH ITEM 559.01 PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS.
8. EXPOSED SURFACES OF NEW CONCRETE BARRIERS SHALL BE SEALED IN ACCORDANCE WITH ITEM 559.02 PROTECTIVE SEALING OF STRUCTURAL CONCRETE. ONLY PENETRATING TYPE SEALERS SHALL BE USED.

REMOVAL NOTES

1. EXISTING SUBSTRUCTURES SHALL BE REMOVED WITHIN THE PAY LIMITS SHOWN IN THE PLANS UNDER ITEM 202.19 REMOVAL OF SUBSTRUCTURES.
2. EXISTING SUPERSTRUCTURE SHALL BE REMOVED UNDER ITEM 202.120001 REMOVING EXISTING SUPERSTRUCTURES.
3. SUPERSTRUCTURE REMOVAL SHALL MEET THE PROVISIONS OF §202-3.01 - GENERAL AND SAFETY REQUIREMENTS, OF THE NYSDOT STANDARD SPECIFICATIONS CONSTRUCTION AND MATERIALS. A REMOVAL PLAN, SEALED BY A PROFESSIONAL ENGINEER, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION. A THIRD- PARTY REVIEW IS NOT REQUIRED.
4. RECORD PLANS FOR THIS STRUCTURE ARE AVAILABLE AT THE NYSTA BUFFALO DIVISION OFFICE.
5. LIMITS AND METHODS FOR THE REMOVAL OF PAINT AT LOCATIONS OF FASTENER REMOVAL OR FLAME CUTTING SHALL MEET THE PROVISONS OF §202-3.01 GENERAL, OF THE NYSDOT STANDARD SPECIFICATIONS CONSTRUCTION AND MATERIALS. THE COST OF PAINT REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SUPERSTRUCTURE REMOVAL ITEM(S) (OR THE UNIT PRICE BID FOR THE SUBSTRUCTURE REMOVAL ITEM). PAINT WASTE NOT COLLECTED BY VACUUM METHODS SHALL BE COLLECTED USING THE ENVIRONMENTAL GROUND AND/OR WATERWAY PROTECTION ITEM(S). WASTE SHALL BE DISPOSED OF USING THE TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE ITEM.
6. LOOSE AND/OR PEELING PAINT ON STEEL SURFACES MAY BECOME DISLODGED DURING REMOVAL OPERATIONS OR DURING TRANSPORTATION FROM THE SITE UNLESS APPROPRIATE MEASURES ARE TAKEN. THE CONTRACTOR SHALL FORMULATE AND SUBMIT A METHOD OF REMEDIATING THE CONDITION FOR APPROVAL BY THE ENGINEER. WORKER LEAD PROTECTION IN ACCORDANCE WITH 29 CFR 1926.62 SHALL BE SATISFIED. REMEDIATION METHODS COULD INCLUDE TRANSPORTING AFFECTED MEMBERS IN CLOSED TRUCKS, WRAPPING AFFECTED MEMBERS PRIOR TO REMOVAL, ENCAPSULATING THE LOOSE PAINT OR REMOVAL OF LOOSE PAINT PRIOR TO DISMANTLING OPERATIONS. THE COST OF REMEDIATING THIS CONDITION SHALL BE INCLUDED IN THE LUMP SUM PRICE(S) BID FOR THE SUPERSTRUCTURE REMOVAL ITEM(S) OR THE UNIT PRICE BID FOR THE SUBSTRUCTURE REMOVAL ITEM.) THE USE OF ENVIRONMENTAL GROUND AND/OR WATERWAY PROTECTION ITEMS WILL BE REQUIRED, DEPENDING ON THE ALTERNATIVE CHOSEN, THE TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE ITEM MAY BE REQUIRED. BECAUSE OF THE ABOVE- MENTIONED CONDITION, THE CONTRACTOR SHALL EXAMINE THE CONDITION OF THE STRUCTURE'S PAINT PRIOR TO SUBMITTING A BID.
7. AN ASBESTOS ASSESSMENT HAS BEEN PERFORMED ON THE INTERCHANGE 46 OVER I-90 BRIDGE AND IS FOUND IN THE AUGUST 2024 ASBESTOS ASSESSMENT REPORT. BASED ON THE TESTING, ASBESTOS CONTAINING MATERIALS WERE IDENTIFIED ON THE BRIDGE. A SPECIAL ASBESTOS NOTE INSERT HAS BEEN PREPARED AND IS INCLUDED IN THE BID DOCUMENTS FOR ADDITIONAL INFORMATION. THE FOLLOWING ASBESTOS CONTAINING ELEMENTS WERE FOUND:

   - COMPRESSED ASBESTOS SHEET PACKING AT ABUTMENTS
   - WATERPROOFING MEMBRANE BETWEEN BRIDGE DECK AND ASPHALT OVERLAY
8. THE 2024 HAZARDOUS MATERIALS INSPECTION REPORT WILL BE PROVIDED AS SUPPLEMENTAL INFORMATION.
9. ASBESTOS CONTAINING MATERIALS SHALL BE REMOVED UNDER THE FOLLOWING ITEMS:

   COMPRESSED ASBESTOS SHEET PACKING:
   ITEM 210.3312

   DECK WATERPROOFING MEMBRANE:
   ITEM 210.481201

DESIGNED BY: M. SEIDEL
DRAFTED BY: M. MURPHY
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: G. ARADHYA

FILE NAME = 024810_cpb_02_gen_01.dgn
USER NAME = dhoerner
DATE/TIME = 12/4/2025 07:32

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: BRIDGE GENERAL NOTES (SHEET 1 OF 2)

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-7

RECONSTRUCTION NOTES

1. DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.

2. 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 AUTHORITY, 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 AUTHORITY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

3. WHEN ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS.

4. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE STOPPED UNTIL ADEQUATE PROTECTION IS PROVIDED.

5. 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 AUTHORITY.

6. THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICE BID USING THE APPROPRIATE ITEMS IN THE CONTRACT.

7. IF THE STRUCTURE HAS A BRIDGE IDENTIFICATION NUMBER (B.I.N.) PLATE ATTACHED, THE CONTRACTOR SHALL PROTECT IT DURING CONSTRUCTION. A NEW BIN PLATE SHALL BE INSTALLED ON BEGIN ABUTMENT UPPER STEM IN GIRDER BAY 1.

8. THE CONTRACTOR SHALL KEEP ALL BRIDGE DRAINS CLEAN AND FREE FLOWING DURING THE LIFE OF THE CONTRACT. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS SUPERSTRUCTURE ITEMS IN THE CONTRACT.

9. EXCAVATION BELOW THE PROPOSED BOTTOM OF THE NEW FOOTING ELEVATION WILL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. BACKFILL OF UNAUTHORIZED EXCAVATIONS BELOW OR BEYOND PAYMENT LINES WILL BE AT THE CONTRACTOR'S EXPENSE. BACKFILL MATERIAL SHALL BE CONCRETE FOR STRUCTURES CLASS A, UNLESS OTHERWISE NOTED DIRECTED BY THE ENGINEER.

10. CARE SHALL BE EXERCISED IN EXCAVATING THE LAST 1 FOOT OF MATERIAL TO AVOID DISTURBING OR SOFTENING THE MATERIAL BELOW THE BOTTOM OF THE FOOTING ELEVATION. THE EXCAVATION SHALL BE PROGRESSED CONTINUOUSLY TO COMPLETION, THE FOOTING PLACED, FORMS REMOVED, AND BACKFILL MATERIAL PLACED AND COMPACTED WITHOUT DELAY.

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: M. SEIDEL
DRAFTED BY: M. MURPHY
CHECKED BY: G. ARADHYA
CHECKED BY: M. SEIDEL

FILE NAME = t21-4810-gnb_02_gen_02.dgn
DATE/TIME = 15-AUG-2025 07:32
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · BRETT D. REYNOLDS · NO. 084906 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

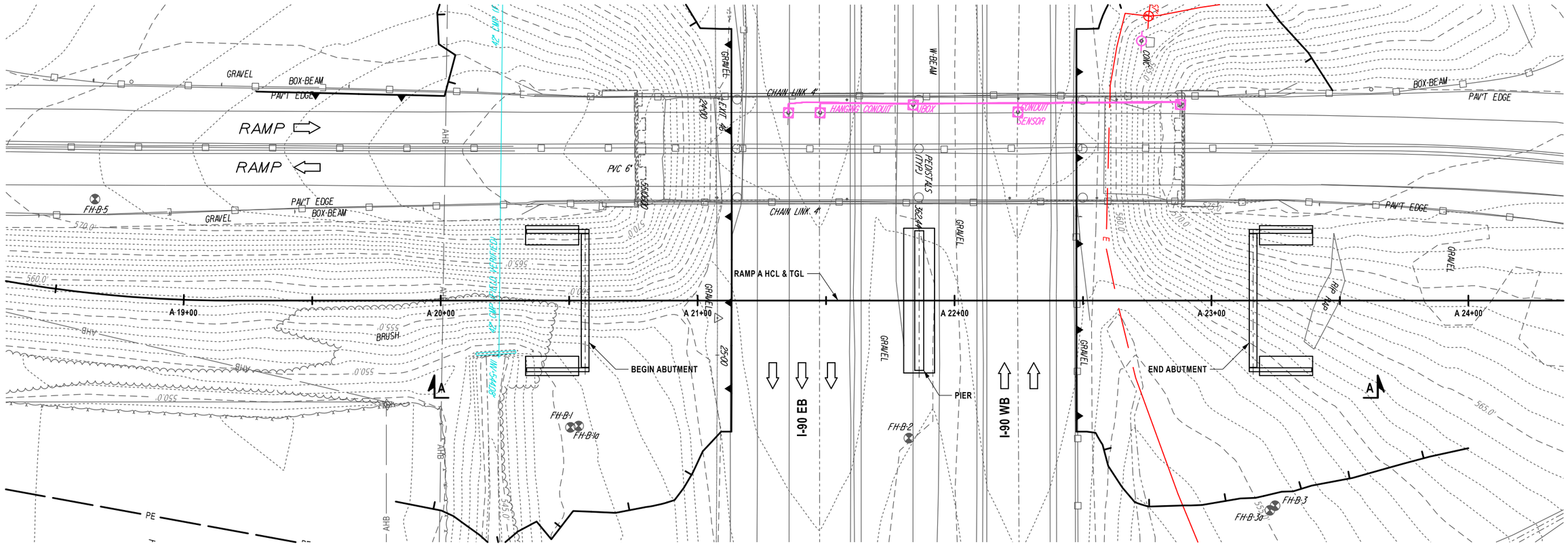
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
BRIDGE GENERAL NOTES
(SHEET 2 OF 2)

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-8



BORING LOCATION PLAN

1" = 40'

BORING TABLE		
BORING LABEL	STATION	OFFSET
FH-B-1	A 20+50.51	49.34' RIGHT
FH-B-1a	A 20+53.72	48.81' RIGHT
FH-B-2	A 21+82.23	53.53' RIGHT
FH-B-3	A 23+22.76	81.63' RIGHT
FH-B-3a	A 23+24.77	79.82' RIGHT
FH-B-5	A 18+61.22	36.53' LEFT

NOTES
1. FOR THE FOLLOWING SEE: DWG NO.
   A. GENERAL SUBSURFACE PROFILE ST-10

⊕ - DENOTES APPROXIMATE BORING LOCATION.

DESIGNED BY: K. FISHMAN
DRAFTED BY: A. MAIER
CHECKED BY: K. FISHMAN
DESIGN SUPERVISOR: T. SWACKHAMER
CHECKED BY: S. GEORGE

FILE NAME = 121481_cob_02_gen_bip_01.dgn
DATE/TIME = 8/13/2025 08:20
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	STATE OF NEW YORK · KENNETH L. FISHMAN · No. 073086 · LICENSED PROFESSIONAL ENGINEER

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

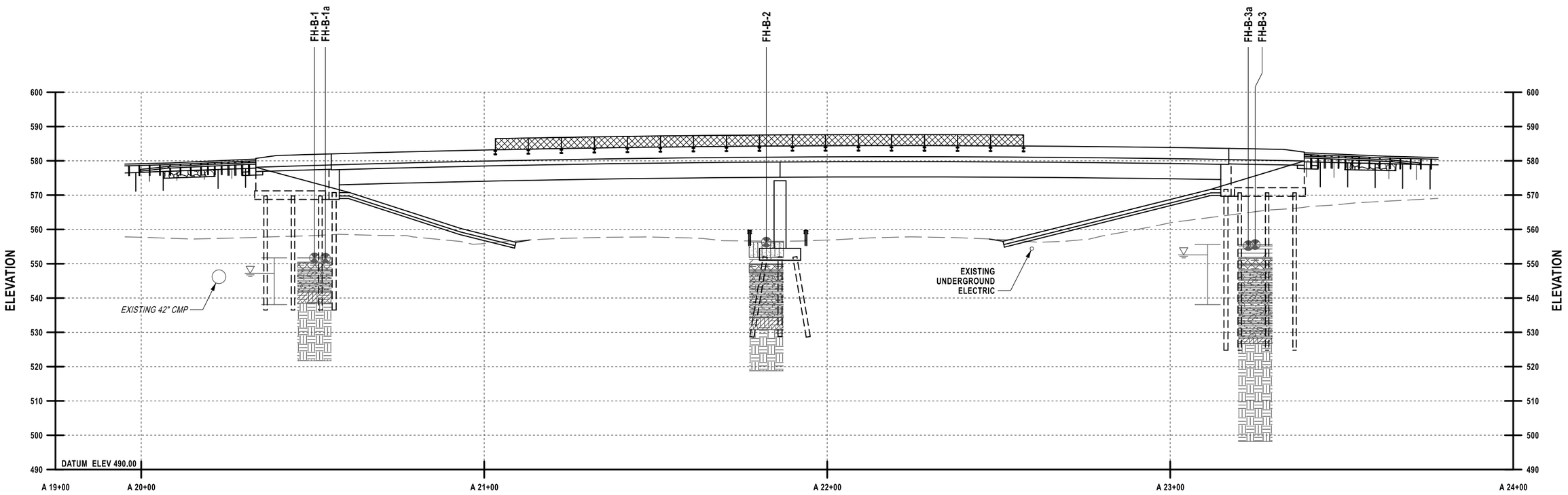
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

McMahon & Mann Consulting Engineering and Geology, P.C.
2495 Main Street, Suite 432, Buffalo, New York 14214 (716) 834-8932 www.mmce.net

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: BORING LOCATION PLAN

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-9



GENERAL SUBSURFACE PROFILE
ELEVATION A-A

15 0 15 30 45 60'

1" = 30'

GENERAL NOTES:

1. SOIL AND ROCK CONDITIONS SHOWN ON THE GENERAL SUBSURFACE PROFILE ARE BASED ON ENGINEERING INTERPRETATION OF THE SUBSURFACE CONDITIONS ENCOUNTERED DURING THE SUBSURFACE EXPLORATION PROGRAM (SOIL BORINGS AND ROCK CORING). THE PROFILES ARE INTENDED TO CONVEY TRENDS IN SUBSURFACE CONDITIONS. THE BOUNDARIES BETWEEN STRATA ARE APPROXIMATE AND IDEALIZED. THEY HAVE BEEN DEVELOPED BY INTERPRETATION OF WIDELY-SPACED EXPLORATIONS AND SAMPLES. ACTUAL SOIL TRANSITIONS CAN VARY.
2. WATER LEVELS WERE OBSERVED IN THE GROUNDWATER MONITORING WELLS AT THE TIMES AND UNDER THE CONDITIONS MENTIONED IN THE FINAL GEOTECHNICAL ENGINEERING REPORT. FLUCTUATIONS IN THE GROUNDWATER LEVELS OCCUR FROM RAINFALL, SEASONAL RUNOFF, AND OTHER FACTORS DIFFERING FROM THE TIME THAT THE MEASUREMENTS WERE MADE.
3. REFER TO THE APRIL 2025 GEOTECHNICAL ENGINEERING REPORT FOR MORE INFORMATION INCLUDING ADDITIONAL BORINGS THAT WERE ADVANCED BY NYSDOT AND BORINGS FROM THE ORIGINAL CONSTRUCTION. THE GEOTECHNICAL ENGINEERING REPORT WILL BE PROVIDED AS SUPPLEMENTAL INFORMATION.

LEGEND:

THE FOLLOWING TABLES SUMMARIZE THE DESCRIPTIVE INFORMATION USED ON THE GENERAL SUBSURFACE PROFILE.

CONSISTENCY (PLASTIC SOILS)	STANDARD PENETRATION TEST (SPT) N-VALUE (NUMBER OF HAMMER (140-POUND) BLOWS REQUIRED TO ADVANCE A SPLIT-SPOON SAMPLER 24 INCHES, PER ASTM D 1586)
VERY SOFT	<2
SOFT	2-4
MEDIUM STIFF	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	>30

DENSITY (GRANULAR SOILS)	STANDARD PENETRATION TEST (SPT) N-VALUE (NUMBER OF HAMMER (140-POUND) BLOWS REQUIRED TO ADVANCE A SPLIT-SPOON SAMPLER 24 INCHES, PER ASTM D 1586)
VERY LOOSE	0-4
LOOSE	5-10
MEDIUM DENSE	11-30
DENSE	31-50
VERY DENSE	>50

SYMBOLS:

SOIL BORING	FH-B-XX
GROUNDWATER MONITORING WELL	FH-B-Xa
OBSERVED WATER LEVEL IN GROUNDWATER MONITORING WELL	
TOPSOIL FILL	
SILTY CLAY FILL WITH VARYING AMOUNTS OF GRAVEL, SAND AND ORGANIC MATERIAL, MEDIUM STIFF AND STIFF, BROWN AND GRAY, MOIST. SPT-N BETWEEN 8 AND 22.	
SANDY SILT FILL WITH VARYING AMOUNTS OF GRAVEL, TRACE AMOUNTS OF CLAY AND ORGANIC MATERIAL, LOOSE TO MEDIUM DENSE, BROWN AND GRAY, DRY TO MOIST. SPT-N BETWEEN 8 AND 22.	
SILT AND CLAY WITH TRACE AMOUNTS OF SAND, GRAVEL AND ORGANIC MATTER, GENERALLY FIRM TO VERY STIFF, REDDISH BROWN TO GRAYISH BROWN, MOIST. SPT-N BETWEEN 8 AND 17.	
SAND AND SILT WITH TRACE TO SOME GRAVEL, GENERALLY DENSE TO VERY DENSE, BROWN AND GRAY, MOIST TO SATURATED. SPT-N HIGHLY VARIABLE BETWEEN 6 AND 100.	
SHALE STONE FRAGMENTS (WEATHERED SHALE ROCK)	
SHALE BEDROCK, VERY SOFT TO SOFT, INTENSELY TO VERY INTENSELY FRACTURED, THINLY TO THICKLY LAMINATED TO VERY THINLY BEDDED	

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	STATE OF NEW YORK · KENNETH L. FISHMAN · No. 073086 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

McMahon & Mann
Consulting Engineering and Geology, P.C.
2495 Main Street, Suite 432, Buffalo, New York 14214
(716) 834-8932 www.mmce.net

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: GENERAL SUBSURFACE PROFILE

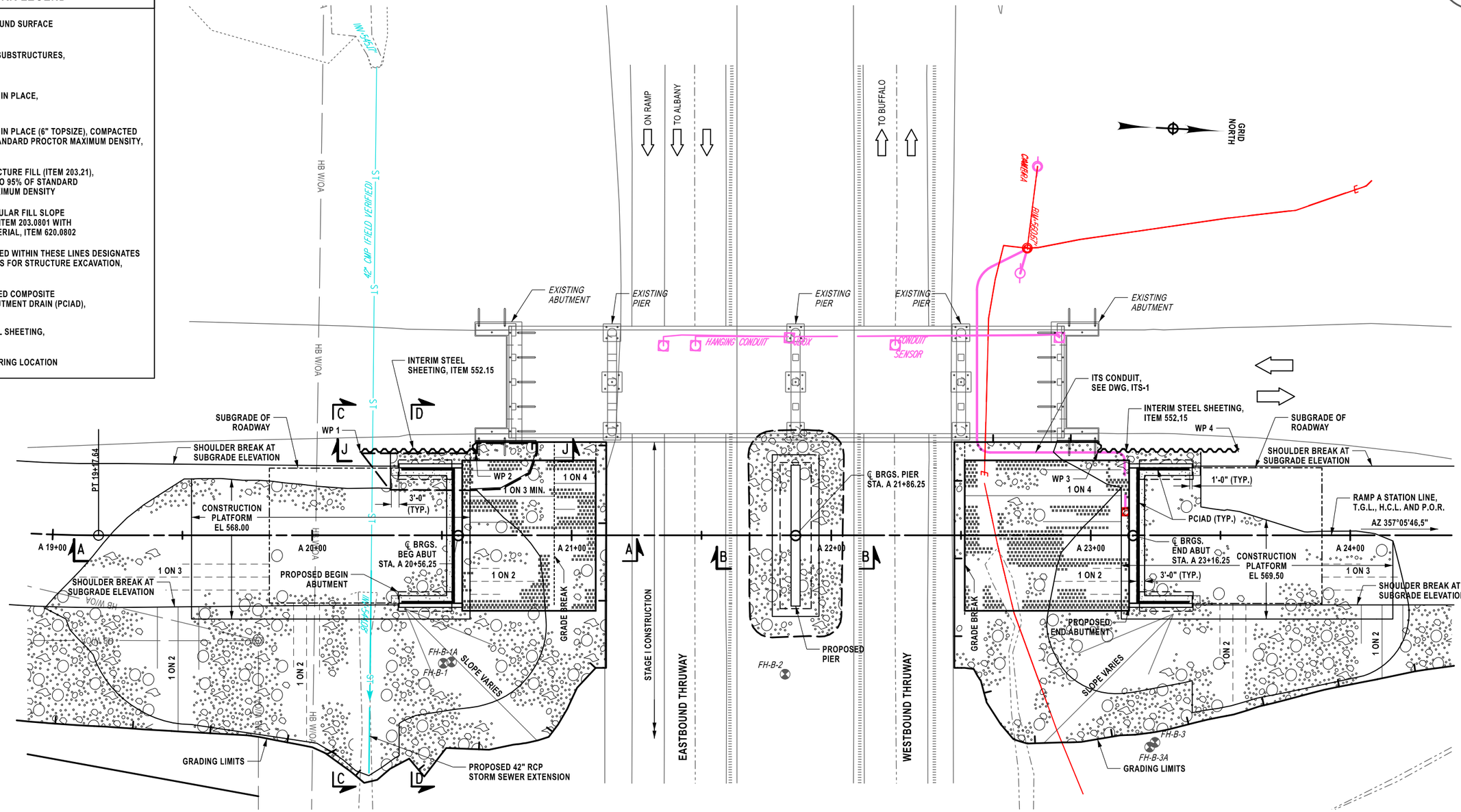
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-10

DESIGN SUPERVISOR: T. SWACKHAMER
DESIGNED BY: K. FISHMAN
DRAFTED BY: A. MAIER
CHECKED BY: K. FISHMAN
CHECKED BY: S. GEORGE

FILE NAME = 121481O_sgh_02_gen_bip_02.dgn
TIME = 13:14:10 - 08:00
DATE = 08/15/2025
USER = dhoerner

EARTHWORK LEGEND

- EXISTING GROUND SURFACE
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- EMBANKMENT IN PLACE, ITEM 203.03
- EMBANKMENT IN PLACE (6" TOPSIZE), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY, ITEM 203.03
- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- SELECT GRANULAR FILL SLOPE PROTECTION, ITEM 203.0801 WITH BEDDING MATERIAL, ITEM 620.0802
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN (PCIAD), ITEM 207.27
- INTERIM STEEL SHEETING, ITEM 552.15
- INDICATES BORING LOCATION



NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SECTION A-A, B-B, C-C & D-D ST-13
   B. SECTION J-J ST-15
   C. SHEETING WORKING POINT TABLE ST-15
2. BRIDGE CONSTRUCTION STAGE I CORRESPONDS WITH WORKZONE TRAFFIC CONTROL PHASE 1 WITH TRAFFIC MAINTAINED ON EXISTING BRIDGE (SEE DWG. WZP-03).
3. FOR TEMPORARY POSITIVE BARRIER PLACEMENT ON THRUWAY, SEE DWG. WZP-31.

STAGE I EXCAVATION AND EMBANKMENT PLAN

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

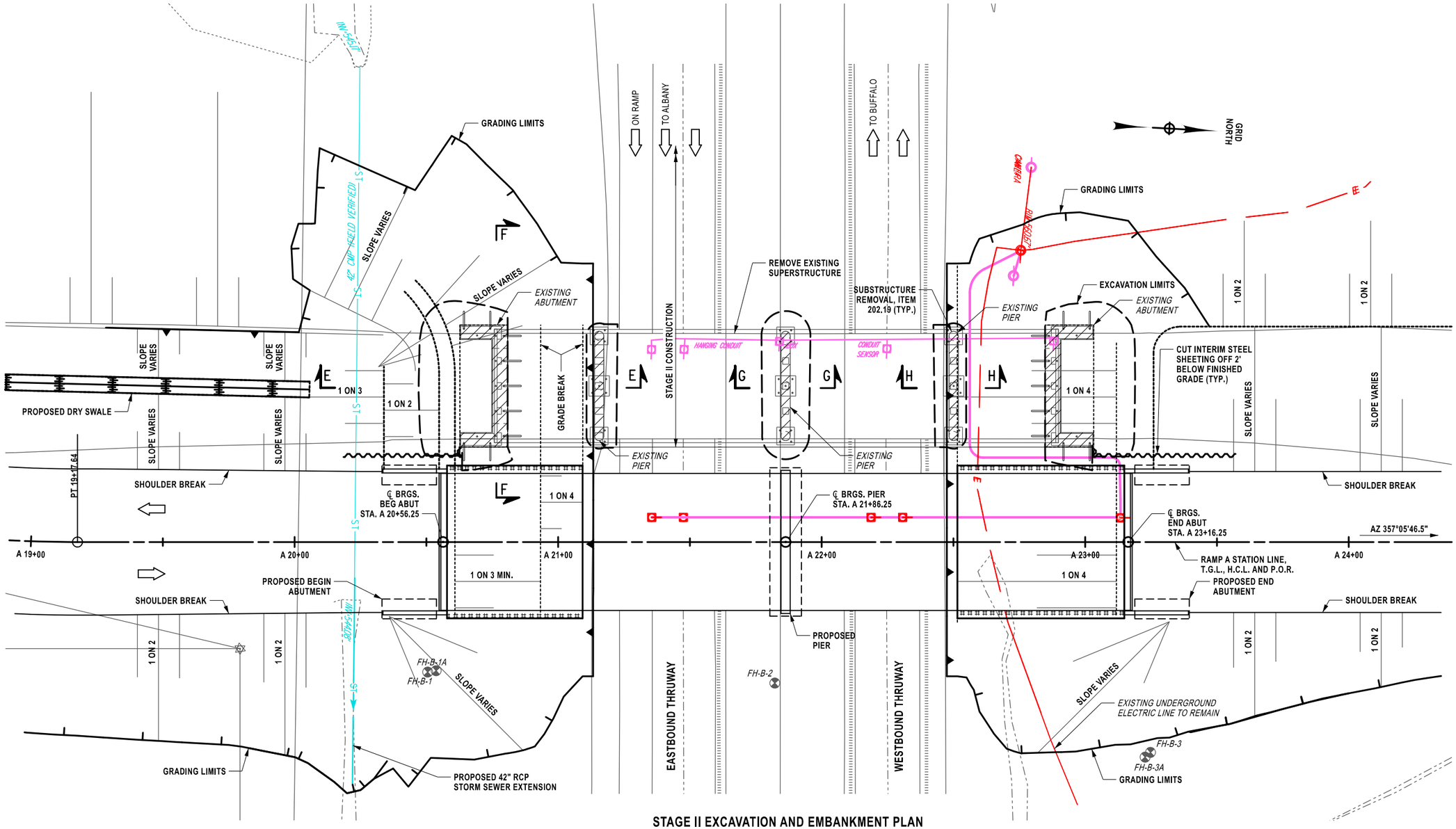
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	EARTHWORK (SHEET 1 0F 5)
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ST-11

DESIGNED BY: M. MURPHY
DRAFTED BY: M. SEIDEL
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 121-4810-sht_02_stw_pln_01.dgn
DATE/TIME = 8/15/2025 7:32
USER = dhoerner



STAGE II EXCAVATION AND EMBANKMENT PLAN

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · BRETT D. REYNOLDS · No. 084906 · LICENSED PROFESSIONAL ENGINEER

NOTES

1. FOR THE FOLLOWING SEE:

	DWG NO.
A. EARTHWORK LEGEND	ST-11
B. SECTION E-E, F-F, G-G & H-H	ST-14
C. DRY SWALE	SWP-1

2. BRIDGE CONSTRUCTION STAGE II CORRESPONDS WITH WORKZONE TRAFFIC CONTROL PHASE 4 WITH TRAFFIC MAINTAINED ON NEW BRIDGE (SEE DWG. WZP-21).
3. FOR TEMPORARY POSITIVE BARRIER PLACEMENT ON THRUWAY, SEE DWG. WZP-31.

20 0 20 40 60 80'
1" = 40'

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

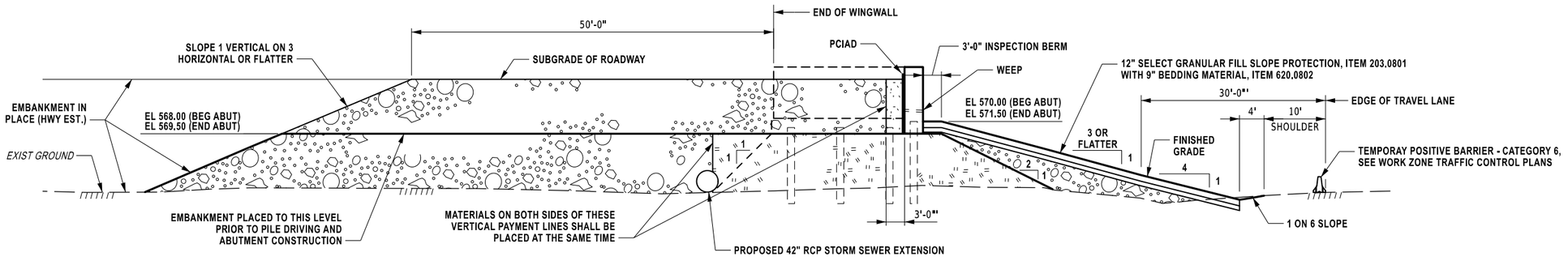
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

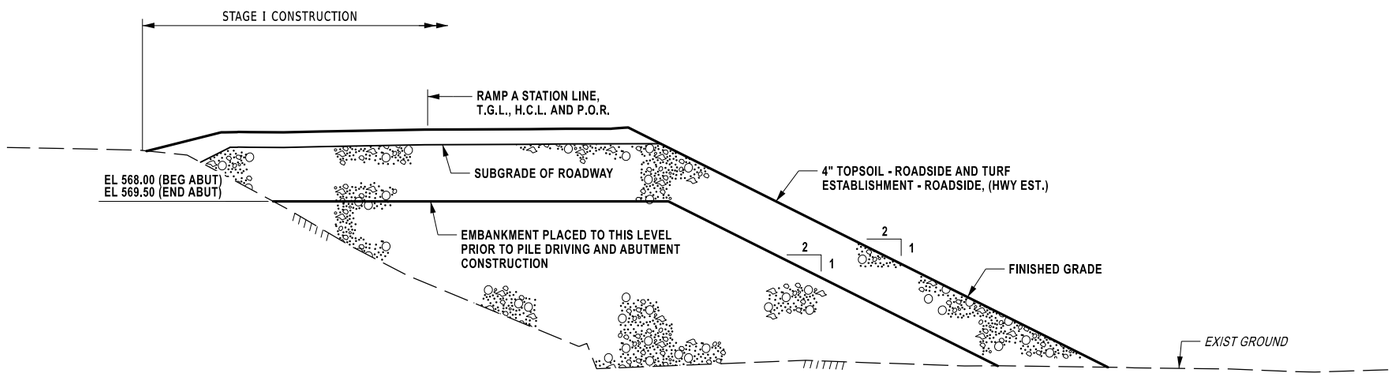
TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: EARTHWORK (SHEET 2 OF 5)	DRAWING NUMBER: ST-12

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: M. MURPHY
DRAFTED BY: M. MURPHY
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

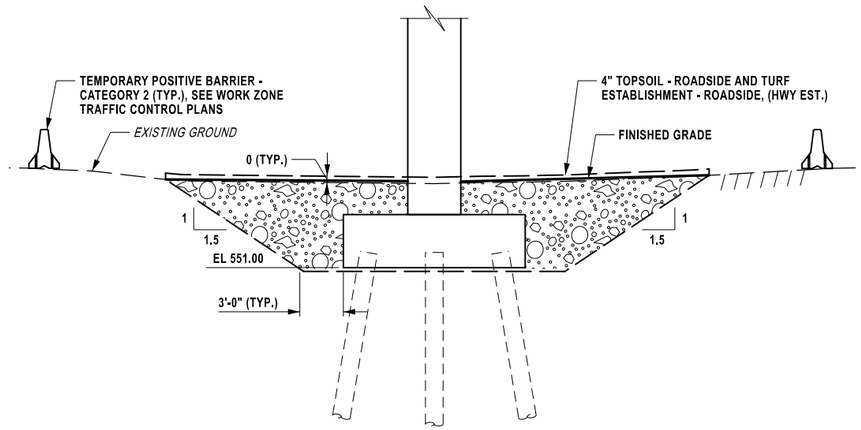
FILE NAME = 021A810_gpb_02_grw_plh_02.dgn
DATE/TIME = 12-AUG-2025 07:52
USER = dhoerner



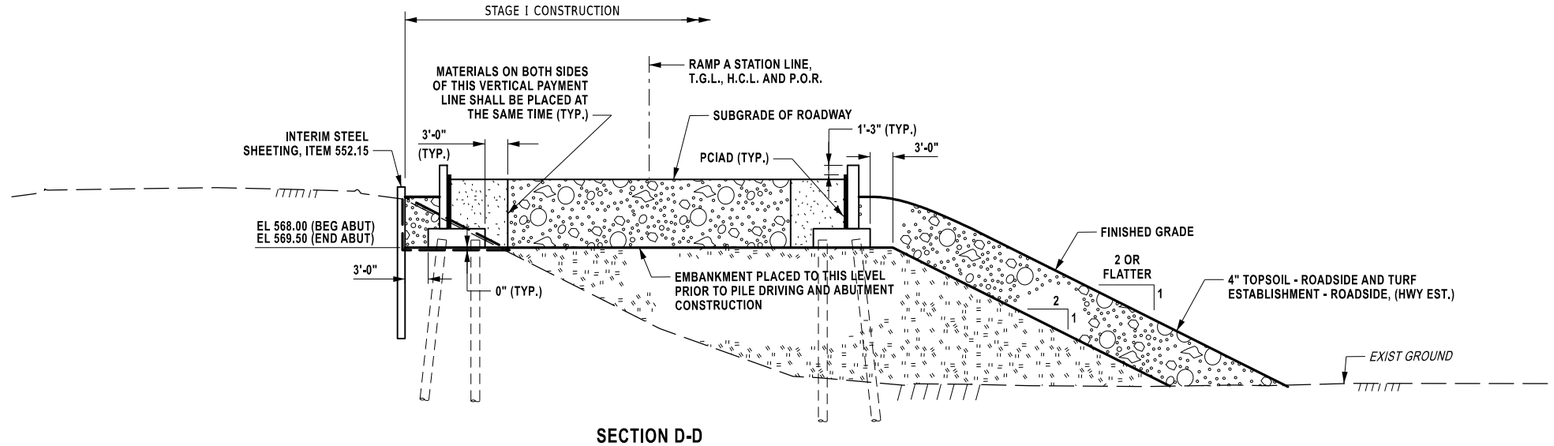
SECTION A-A



SECTION C-C



SECTION B-B



SECTION D-D

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. EARTHWORK LEGEND ST-11
   - B. LOCATION OF SECTION A-A, B-B, C-C & D-D ST-11
   - C. INTERIM STEEL SHEETING DETAILS ST-15
2. WHERE SELECT STRUCTURE FILL OR EMBANKMENT IN PLACE ARE TO BE CONSTRUCTED ON EXISTING EMBANKMENTS WITH SLOPES STEEPER THAN 1 VERTICAL ON 3 HORIZONTAL, THE SLOPES SHALL BE BENCHED. REQUIRED BENCHES SHALL BE CONSTRUCTED AS SHOWN ON STANDARD SHEET 203-02.
3. SECTION A-A, C-C AND D-D ARE SHOWN FOR THE BEGIN ABUTMENT, SECTIONS AT END ABUTMENT ARE SIMILAR.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: EARTHWORK (SHEET 3 OF 5)

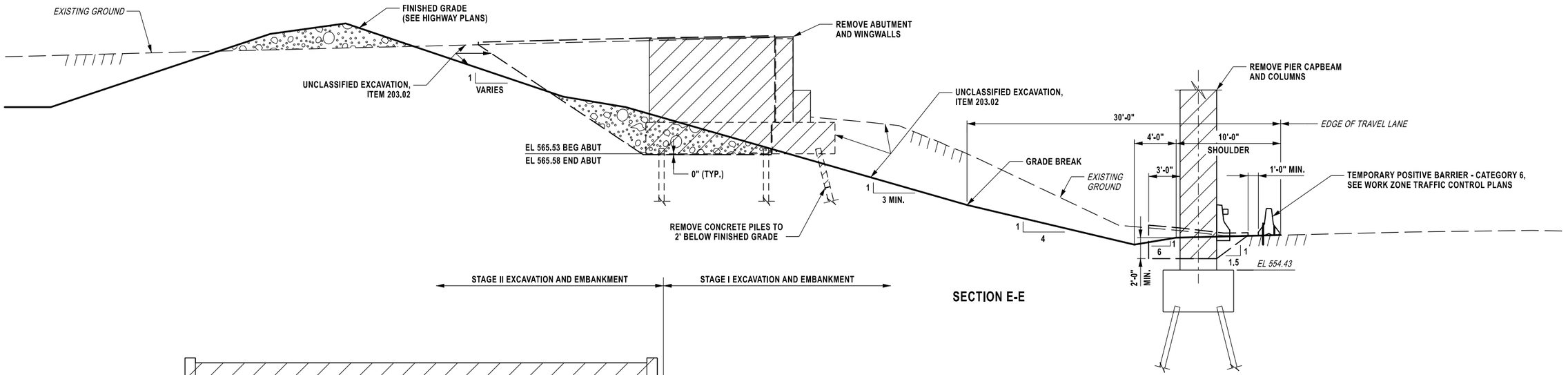
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

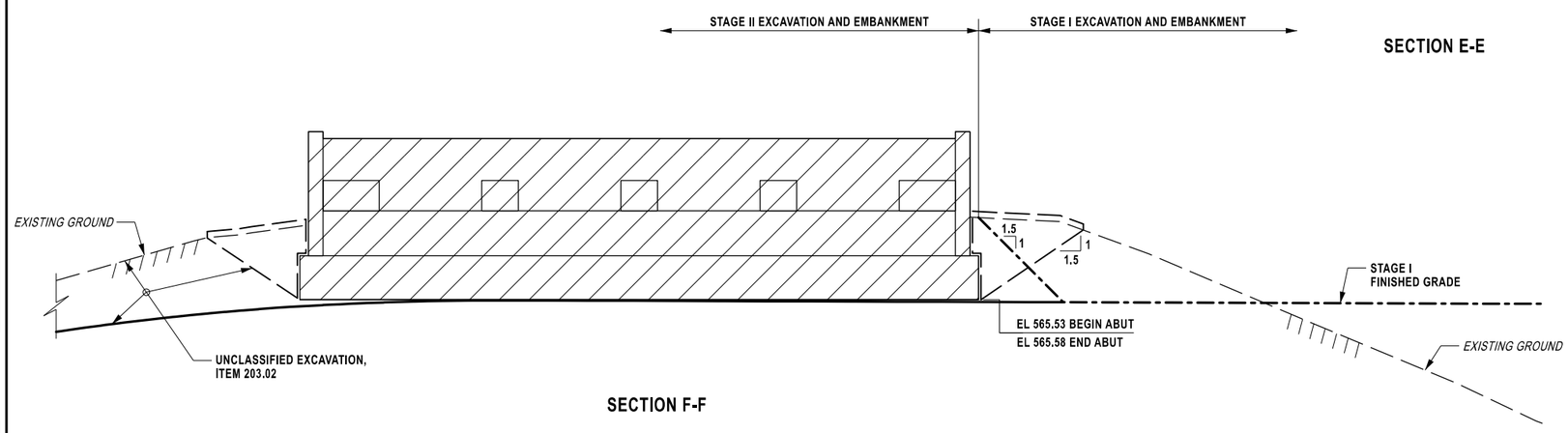
DRAWING NUMBER: ST-13

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: M. MURPHY
DESIGNED BY: M. MURPHY
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

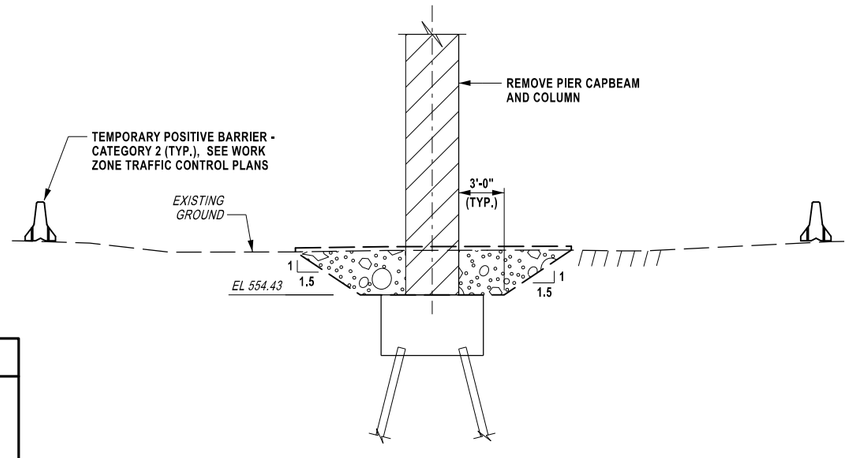
FILE_NAME = 021A810_sht_02_erw_sec_01.dgn
DATE/TIME = 15-AUG-2025 07:52
USER = dhoerner



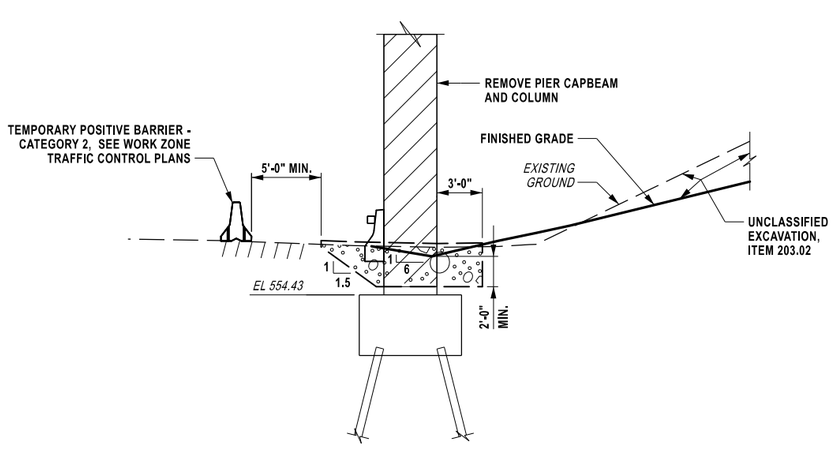
SECTION E-E



SECTION F-F



SECTION G-G



SECTION H-H

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. EARTHWORK LEGEND ST-11
   - B. LOCATION OF SECTION E-E, F-F, G-G & H-H ST-12
2. SECTIONS E-E AND F-F ARE SHOWN FOR THE BEGIN ABUTMENT, SECTIONS AT END ABUTMENT ARE SIMILAR.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: EARTHWORK (SHEET 4 OF 5)

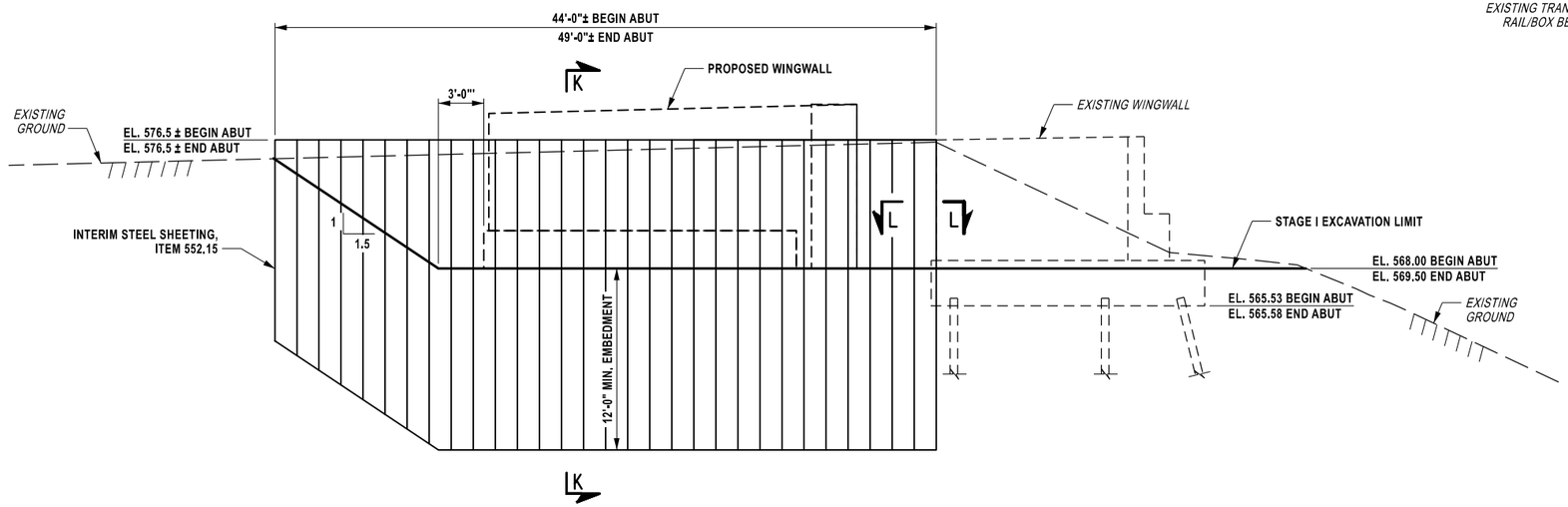
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

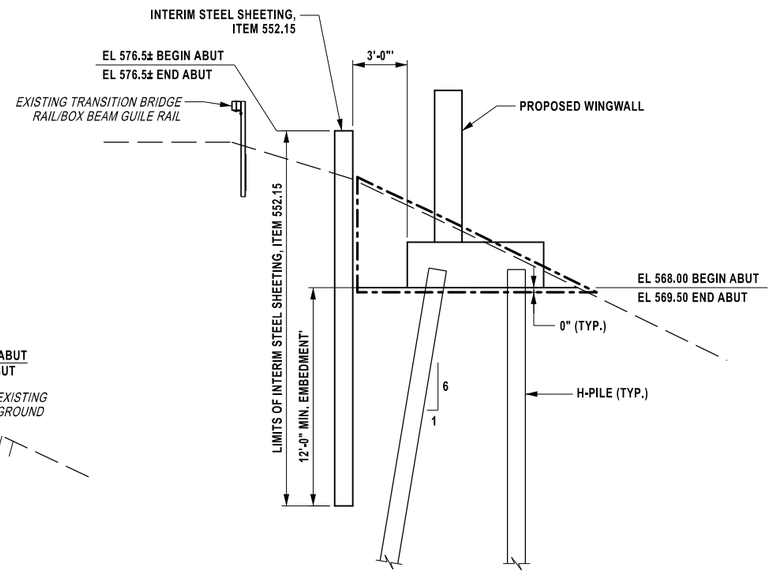
DRAWING NUMBER: ST-14

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: M. MURPHY
DESIGNED BY: M. MURPHY
CHECKED BY: M. SEIDEL
CHECKED BY:

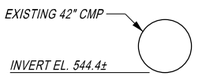
FILE_NAME = 021A810_acb_02_erw_sec_02.dgn
DATE/TIME = 15-AUG-2025 07:52
USER = dhoerner

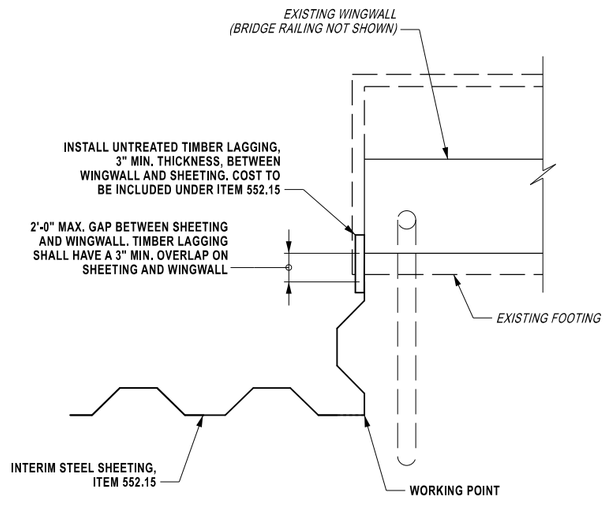


BEGIN ABUTMENT SECTION J-J
(END ABUTMENT SIMILAR)



BEGIN ABUTMENT SECTION K-K
(END ABUTMENT SIMILAR)





BEGIN ABUTMENT SECTION L-L
(END ABUTMENT SIMILAR)

INTERIM STEEL SHEETING		
LOCATION	STATION	OFFSET
WORKING POINT 1	A 20+19.00	32.17' LEFT
WORKING POINT 2	A 20+63.00	32.17' LEFT
WORKING POINT 3	A 23+02.83	32.17' LEFT
WORKING POINT 4	A 23+51.83	32.17' LEFT

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. EARTHWORK LEGEND ST-11
   B. LOCATION OF SECTION J-J ST-11
2. THE INTERIM STEEL SHEETING AT THE BEGIN AND END ABUTMENTS SHALL HAVE MINIMUM SECTION MODULUS OF 8.2 in³/ ft
3. CONTRACTOR SHALL TAKE NOTICE OF THE PROXIMITY OF PROPOSED WINGWALL PILES TO THE INTERIM SHEETING WALL. CONTRACTOR IS RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN THE INTERIM SHEETING WALL AND THE WINGWALL PILES.
4. THE INTERIM STEEL SHEETING SHALL BE CUT OFF TWO FEET BELOW FINISHED GRADE IN EXCAVATION AND EMBANKMENT STAGE II.

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: M. MURPHY
DESIGNED BY: M. MURPHY
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

FILE NAME = 121481O_sht_02_ew_sec_03.dgn
DATE/TIME = 12-AUG-2025 07:33
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

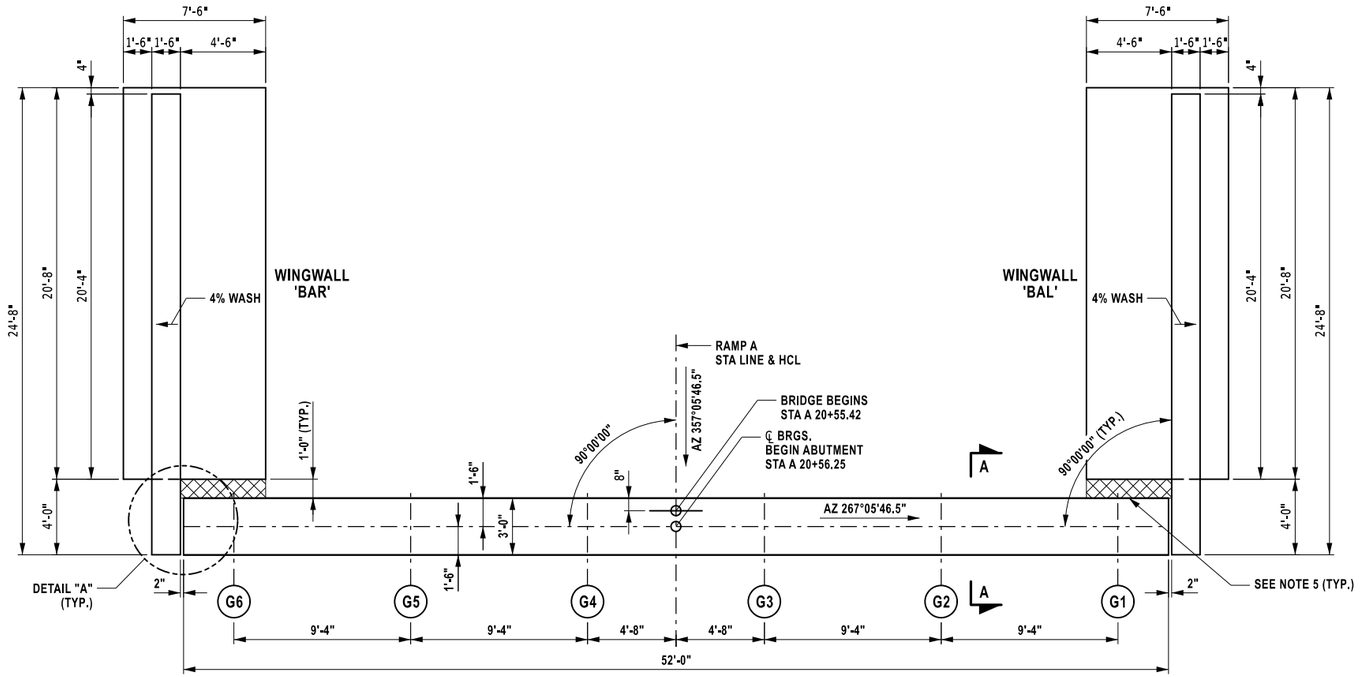
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

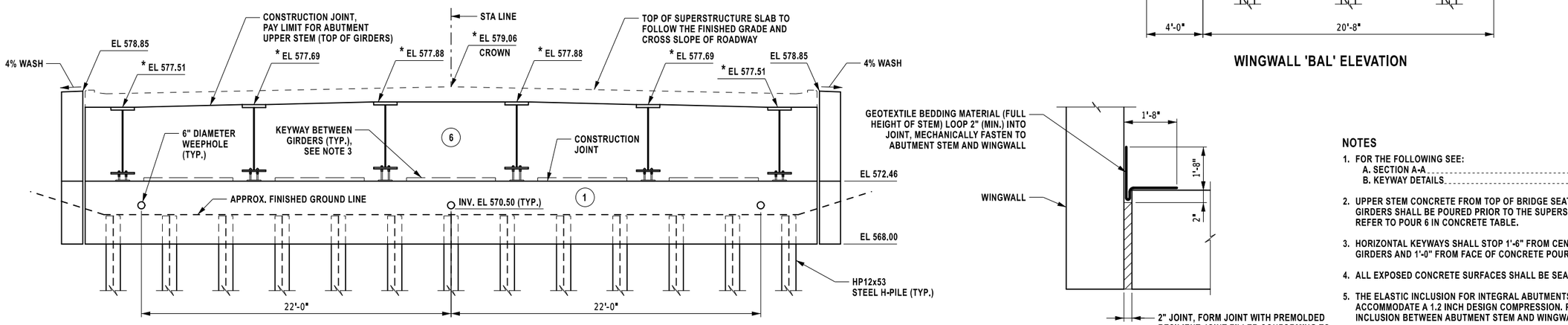
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	EARTHWORK (SHEET 5 OF 5)
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ST-15

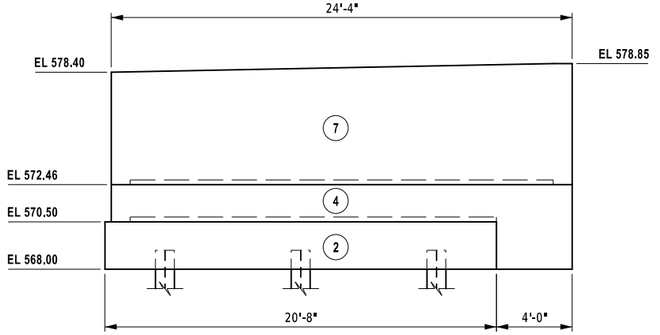


PLAN

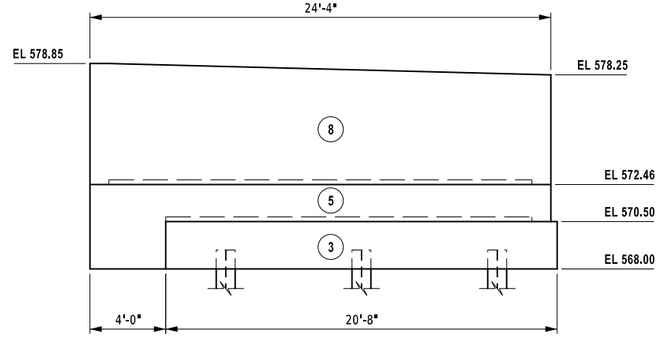


ELEVATION

* THESE ELEVATIONS ARE TAKEN AT ℄ OF BEARINGS



WINGWALL 'BAR' ELEVATION



WINGWALL 'BAL' ELEVATION

DETAIL "A"
NOT TO SCALE

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SECTION A-A ST-27
   B. KEYWAY DETAILS ST-52
2. UPPER STEM CONCRETE FROM TOP OF BRIDGE SEAT TO TOP OF GIRDERS SHALL BE POURED PRIOR TO THE SUPERSTRUCTURE SLAB, REFER TO POUR 6 IN CONCRETE TABLE.
3. HORIZONTAL KEYWAYS SHALL STOP 1'-6" FROM CENTERLINE OF GIRDERS AND 1'-0" FROM FACE OF CONCRETE POUR.
4. ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED, ITEM 559.02.
5. THE ELASTIC INCLUSION FOR INTEGRAL ABUTMENTS SHALL ACCOMMODATE A 1.2 INCH DESIGN COMPRESSION. PLACE ELASTIC INCLUSION BETWEEN ABUTMENT STEM AND WINGWALL FOOTING.
6. THE COST OF THE GEOTEXTILE BEDDING MATERIAL AND PREMOLDED RESILIENT JOINT FILLER SHALL BE INCLUDED IN VARIOUS ITEMS OF CONTRACT.

CONCRETE TABLE

PLACEMENT	QUANTITY (CY)	ITEM NO.
1	25.8	555.0021
2	14.4	555.0011
3	14.4	555.0011
4	3.3	555.0021
5	3.3	555.0021
6	30.3	555.0021
7	8.4	555.0021
8	8.3	555.0021

LEGEND

(NO.) - INDICATES CONCRETE PLACEMENT NUMBER

(G#) - INDICATES GIRDER NUMBER

▨ - ELASTIC INCLUSION FOR INTEGRAL ABUTMENTS, ITEM 203.03800001

GRID NORTH

DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
M. SEIDEL

FILE NAME = 021481O_sht_02_sht_pin_beg_01.dgn
DATE/TIME = 12/14/2025 07:33
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

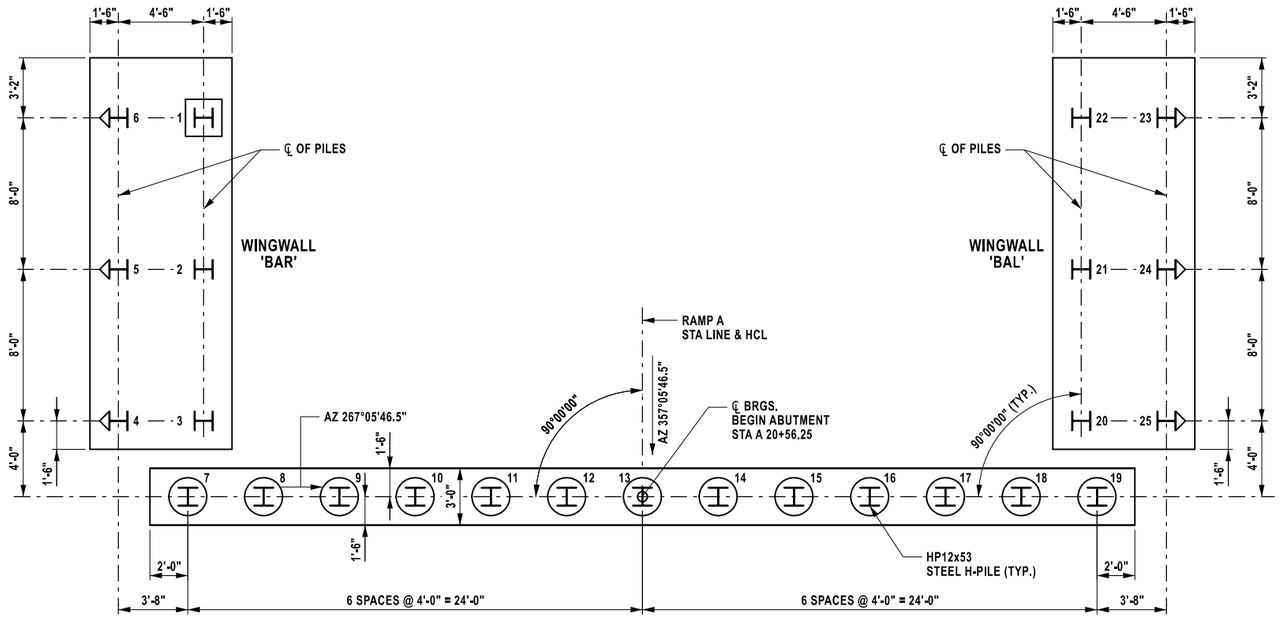
TITLE OF DRAWING
BEGIN ABUTMENT
PLAN AND ELEVATION

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-16

PILE LENGTH TABLE	
PILE NO.	LENGTH BELOW CUT-OFF (FT)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	



PILE LAYOUT

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. PILE NOTES ST-7
   - B. STEEL H-PILE SHOES ST-52
   - C. SPLICE FOR STEEL H-PILE ST-52
2. THE PILE CUT OFF ELEVATION FOR THE INTEGRAL ABUTMENT IS 570.00.
3. THE PILE CUT OFF ELEVATION FOR THE WINGWALLS IS 569.00.
4. THE ESTIMATED MINIMUM PILE TIP ELEVATION AT THE ABUTMENT AND WINGWALLS IS 536.00 FEET. ALL PILES SHALL BE SUPPLIED A MINIMUM OF 10 FEET LONGER THAN THE ESTIMATED PILE LENGTH.
5. DYNAMIC PILE TEST SHALL BE CONDUCTED ON THE FIRST PILE DRIVEN AT LOCATION INDICATED OR AT OTHER LOCATION ORDERED BY THE ENGINEER. THE DRIVING CRITERIA FOR THE REMAINING PILES SHALL BE BASED ON THE RESULTS OF THESE TESTS.
6. THE ABUTMENT PILES ARE DESIGNED TO SUPPORT A MAXIMUM STRENGTH LIMIT STATE AXIAL LOAD OF 231 KIPS PER PILE. DRIVE THESE PILES TO A MINIMUM NOMINAL RESISTANCE OF 370 KIPS PER PILE.
7. THE MAXIMUM SERVICE LIMIT STATE AXIAL LOAD FOR THE ABUTMENT PILES IS 191 KIPS PER PILE.
8. THE WINGWALL PILES ARE DESIGNED TO SUPPORT A MAXIMUM STRENGTH LIMIT STATE AXIAL LOAD OF 188 KIPS PER PILE. DRIVE THESE PILES TO A MINIMUM NOMINAL RESISTANCE OF 370 KIPS PER PILE.
9. THE MAXIMUM SERVICE LIMIT STATE AXIAL LOAD FOR THE WINGWALL PILES IS 168 KIPS PER PILE.
10. AFTER COMPLETION OF THE PILE INSTALLATION, THE ENGINEER SHALL COMPLETE THE "PILE LENGTH" TABLE FOR INCLUSION IN THE AS-BUILT PLANS.

LEGEND

- - INDICATES HP12x53, ITEM 551.012053
- - INDICATES HP12x53, BATTERED 6 ON 1, ITEM 551.012053
- - 24" DIA. PREDRILLED HOLE REQUIRED TO A DEPTH OF 8 FEET BELOW BOTTOM OF ABUTMENT STEM, ITEM 551.03020017
- - INDICATES DYNAMIC TEST PILE REQUIRED, ITEM 551.14

DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

FILE NAME = 121481D_sht_02_091_pl_beg_01.dgn
DATE/TIME = 08/14/2025 07:33
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

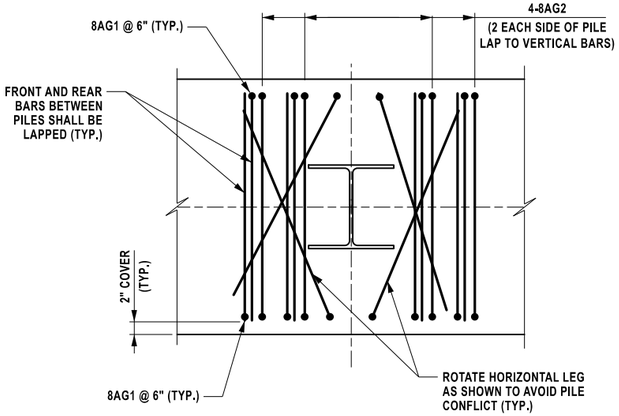
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

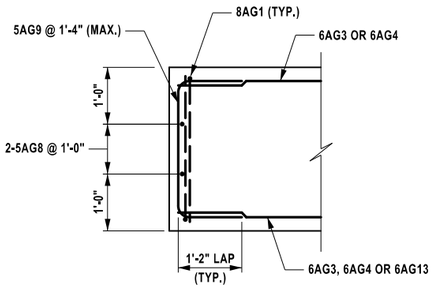
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: BEGIN ABUTMENT PILE LAYOUT

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-17



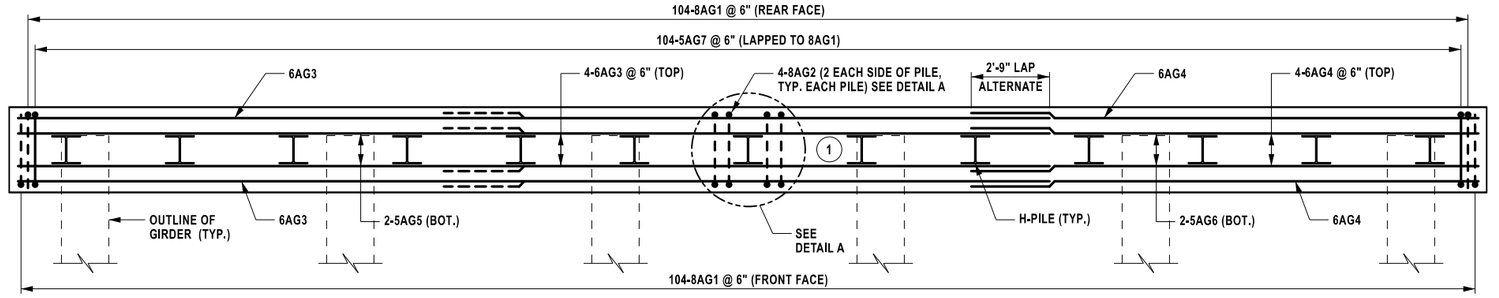
DETAIL A
REINFORCEMENT AT PILES



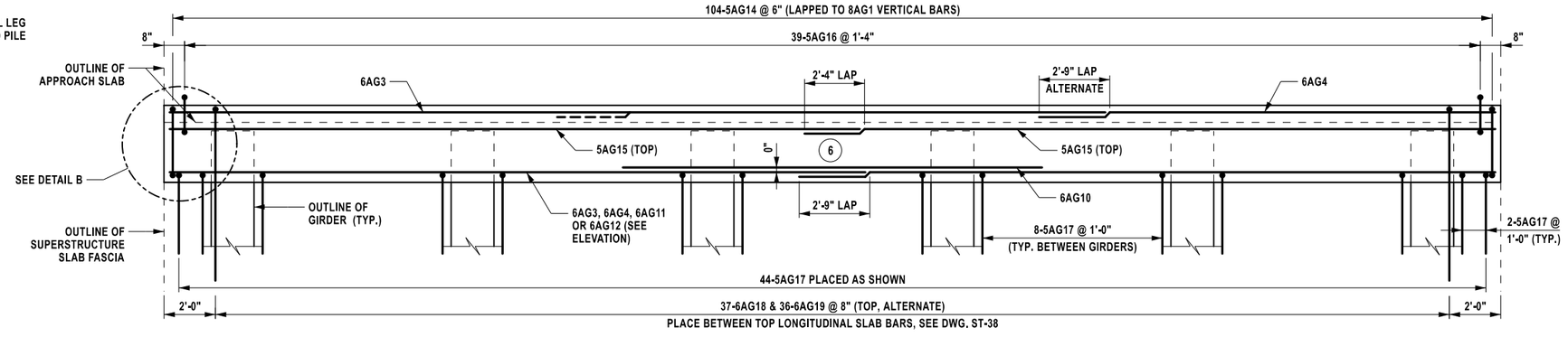
DETAIL B
TYPICAL END REINFORCEMENT

NOTES

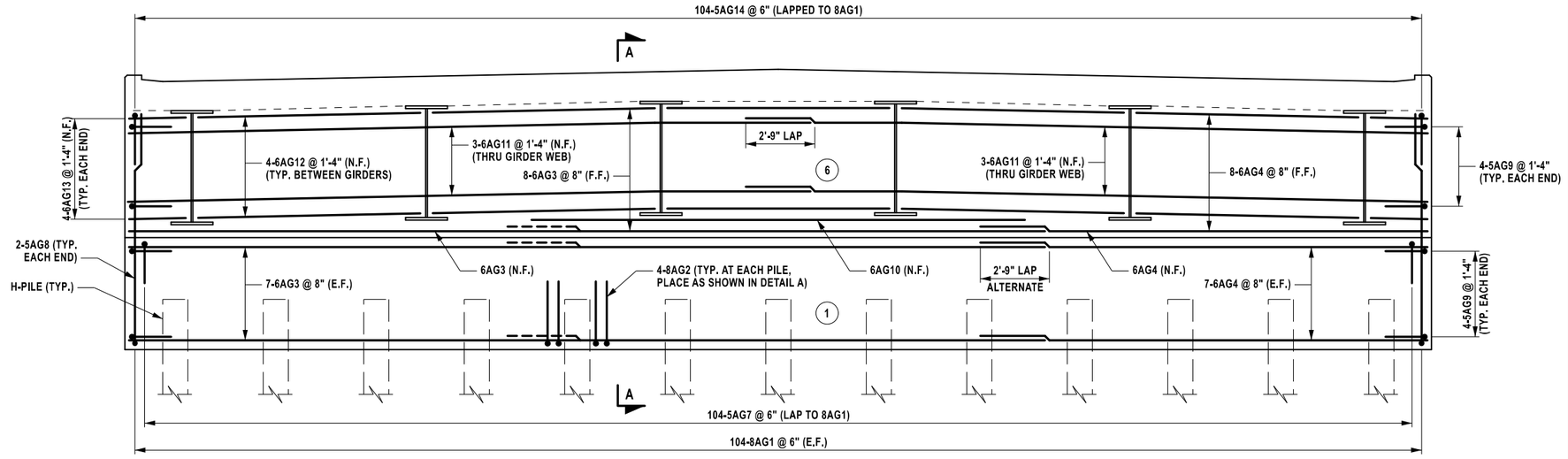
1. FOR THE FOLLOWING SEE: DWG NO.
   A. SECTION A-A ST-27
2. ALL REINFORCEMENT SHALL BE GALVANIZED BAR REINFORCEMENT FOR STRUCTURES, ITEM 556.0203.
3. COVER FOR ALL STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED.



REINFORCEMENT PLAN - LOWER STEM



REINFORCEMENT PLAN - UPPER STEM



REINFORCEMENT ELEVATION

GRID NORTH

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

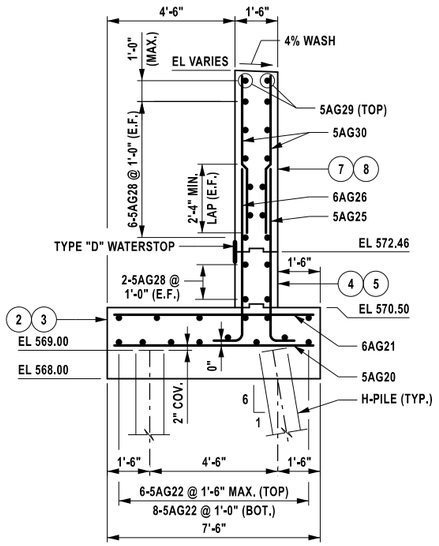
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: BEGIN ABUTMENT REINFORCEMENT

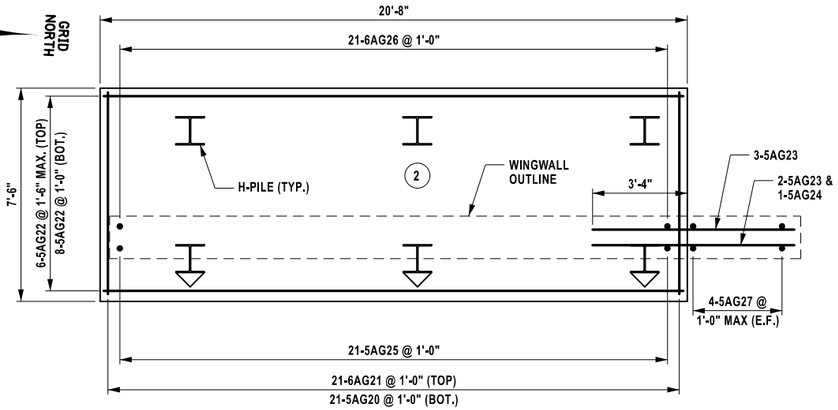
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-18

DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
M. SEIDEL

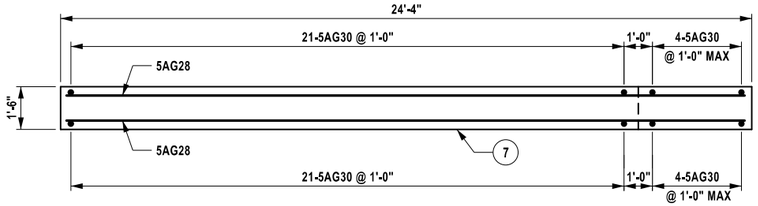
FILE NAME = 021461D_202_02_str_rnf_beg_01.dgn
DATE/TIME = 15-AUG-2025 07:33
USER = dhoerner



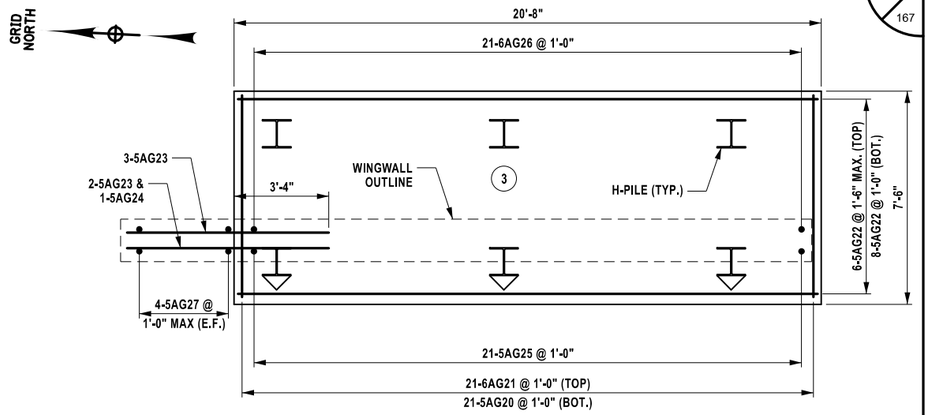
SECTION A-A



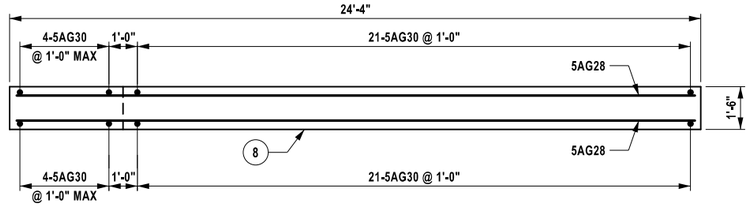
FOOTING PLAN



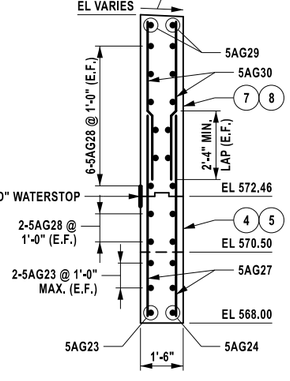
UPPER WINGWALL PLAN



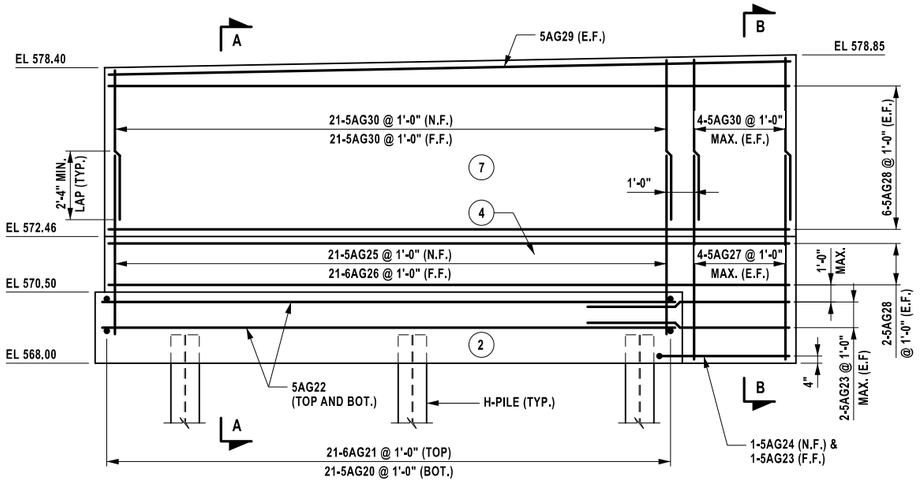
FOOTING PLAN



UPPER WINGWALL PLAN

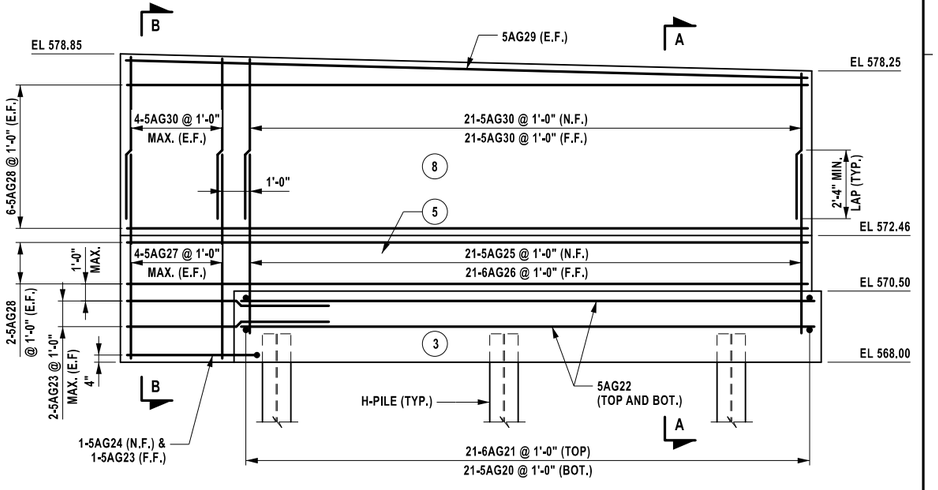


SECTION B-B



ELEVATION

WINGWALL 'BAR' REINFORCEMENT



ELEVATION

WINGWALL 'BAL' REINFORCEMENT

NOTES

1. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
2. (NO.) - INDICATES CONCRETE PLACEMENT NUMBER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

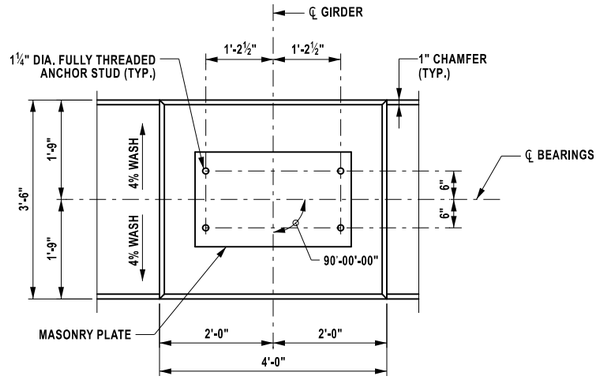
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

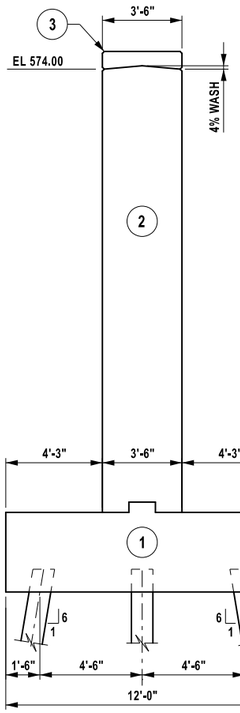
TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	BEGIN ABUTMENT WINGWALL REINFORCEMENT
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ST-19

DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS

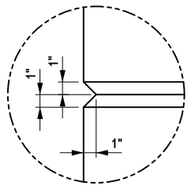
FILE NAME = 021810_pdb_02_sht_mf_beg_02.dgn
12-AUG-2025 07:53
USER = dhoerner



ANCHOR BOLT LAYOUT

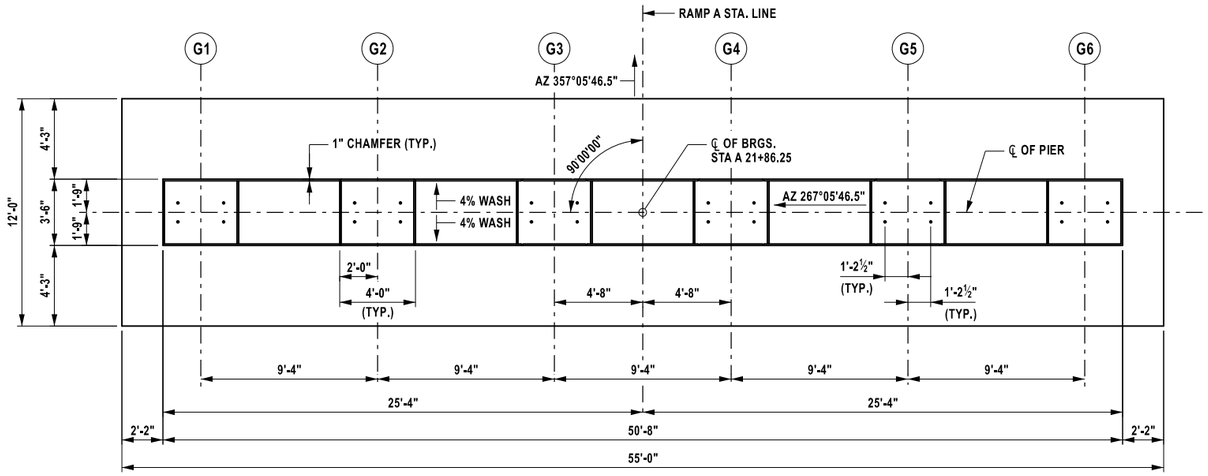


SECTION A-A

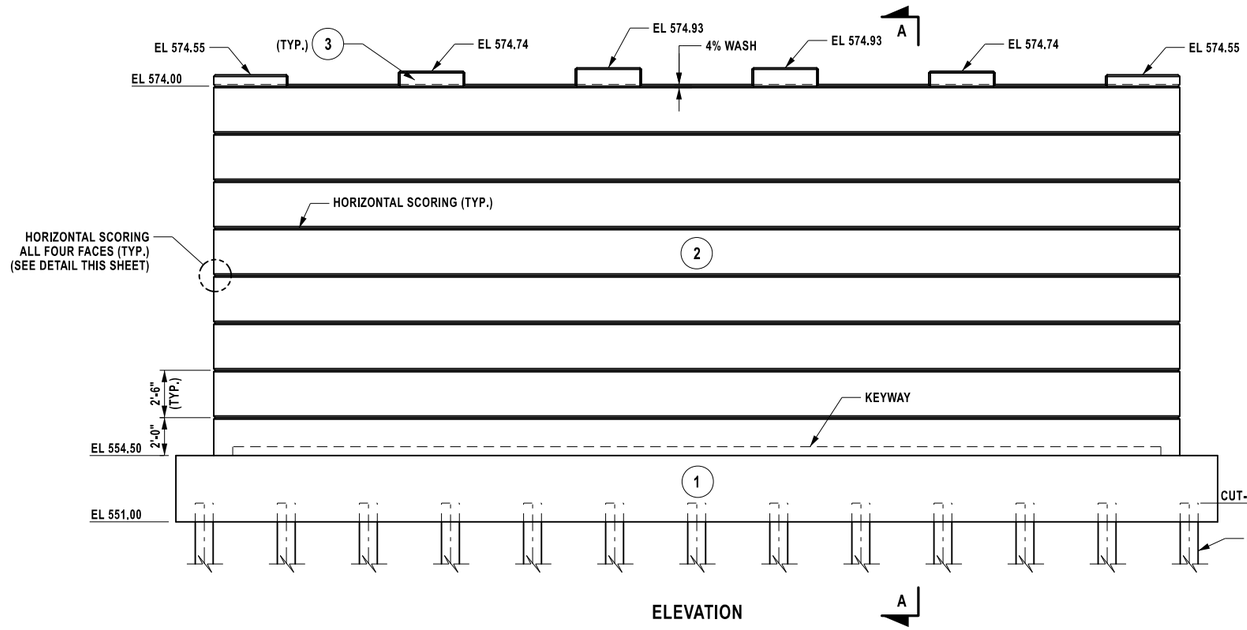


SCORING DETAIL
NOT TO SCALE

GRID NORTH



PLAN



ELEVATION

NOTE:

1. ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED, ITEM 559.02.

LEGEND:

(NO.) - INDICATES CONCRETE PLACEMENT NUMBER

(G#) - INDICATES GIRDER NUMBER

CONCRETE TABLE		
PLACEMENT	QUANTITY (CY)	ITEM NO.
1	85.6	555.0011
2	128.1	555.0021
3	2.3	555.0021

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: PIER PLAN AND ELEVATION

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-20

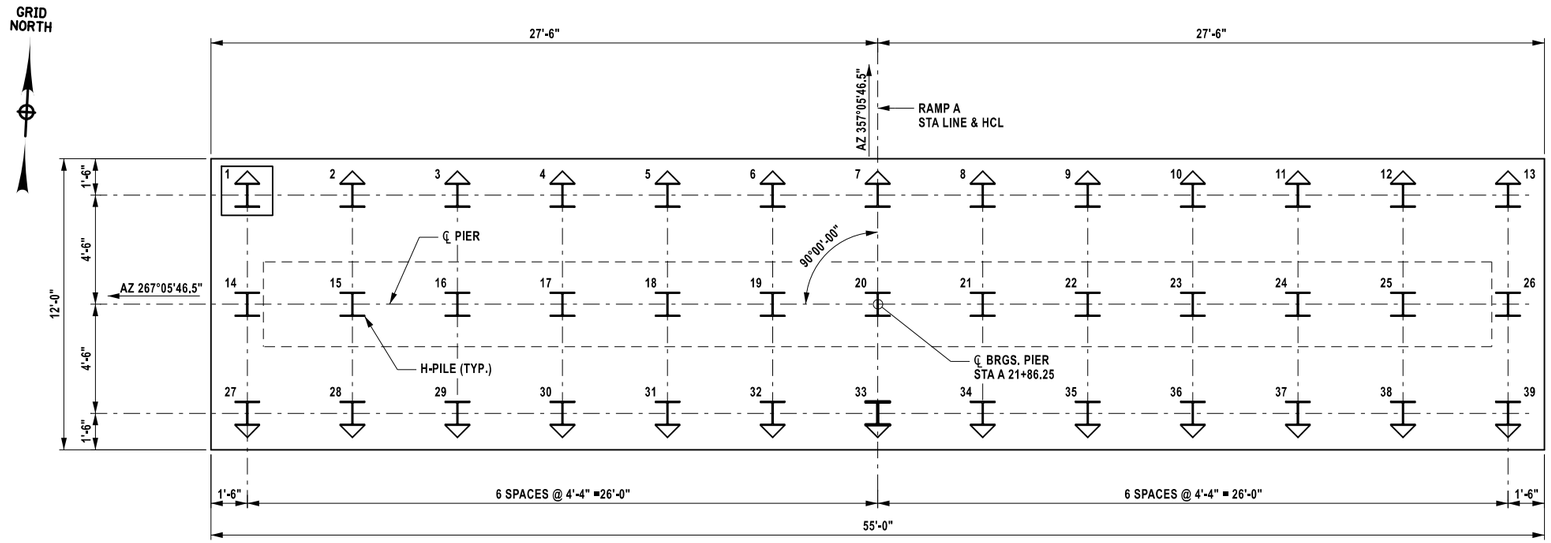
DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: M. PESTINGER
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
M. SEIDEL

FILE NAME = 121481D_sht_02_pil_pl1_01.dgn
DATE/TIME = 10-Aug-2023 07:33
USER = dhoerner

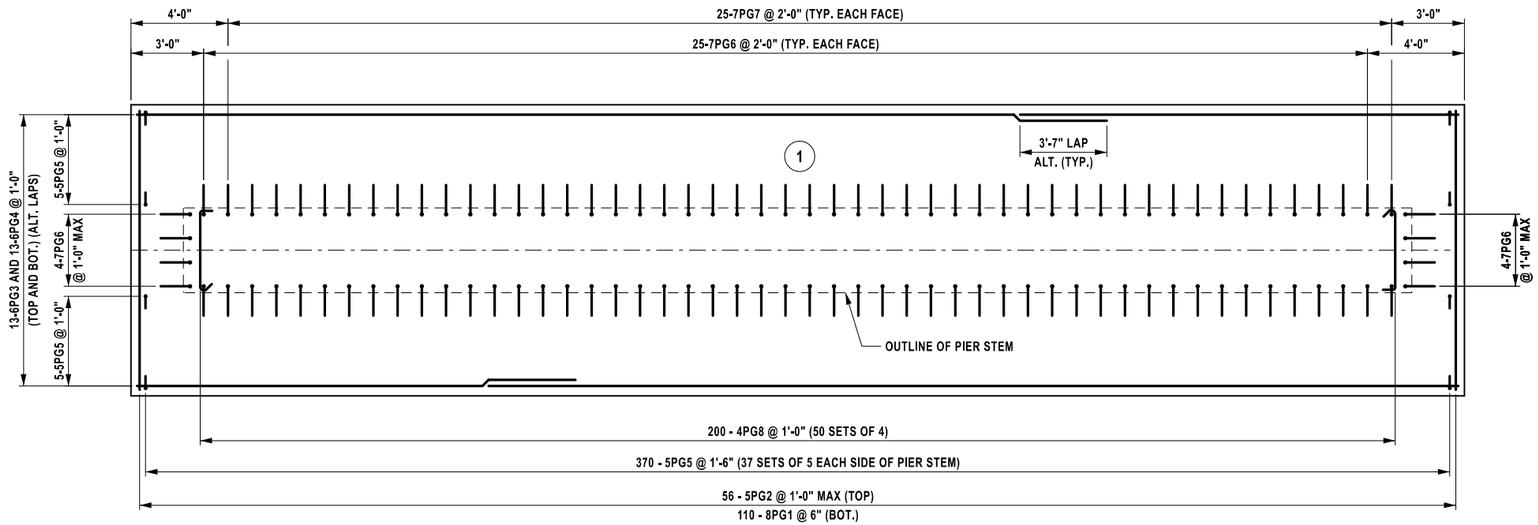
PILE LENGTH TABLE			
PILE NO.	LENGTH BELOW CUT-OFF (FT)	PILE NO.	LENGTH BELOW CUT-OFF (FT)
1		21	
2		22	
3		23	
4		24	
5		25	
6		26	
7		27	
8		28	
9		29	
10		30	
11		31	
12		32	
13		33	
14		34	
15		35	
16		36	
17		37	
18		38	
19		39	
20			

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. PILE NOTES ST-7
   - B. STEEL H-PILE SHOES ST-52
   - C. SPLICE FOR STEEL H-PILE ST-52
2. THE PILE CUT OFF ELEVATION IS 552.00.
3. THE ESTIMATED MINIMUM PILE TIP ELEVATION AT THE PIER IS 529.00 FEET, ALL PILES SHALL BE SUPPLIED A MINIMUM OF 10 FEET LONGER THAN THE ESTIMATED PILE LENGTH.
4. DYNAMIC PILE TEST SHALL BE CONDUCTED ON THE FIRST PILE DRIVEN AT LOCATION INDICATED OR AT OTHER LOCATION ORDERED BY THE ENGINEER. THE DRIVING CRITERIA FOR THE REMAINING PILES SHALL BE BASED ON THE RESULTS OF THESE TESTS.
5. THE PIER PILES ARE DESIGNED TO SUPPORT A MAXIMUM STRENGTH LIMIT STATE AXIAL LOAD OF 164 KIPS PER PILE. DRIVE THESE PILES TO A MINIMUM NOMINAL RESISTANCE OF 260 KIPS PER PILE.
6. THE MAXIMUM SERVICE LIMIT STATE AXIAL LOAD FOR THE PIER PILES IS 126 KIPS PER PILE.
7. AFTER COMPLETION OF THE PILE INSTALLATION, THE ENGINEER SHALL COMPLETE THE "PILE LENGTH" TABLE FOR INCLUSION IN THE AS-BUILT PLANS.
8. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2" UNLESS OTHERWISE NOTED.



PILE LAYOUT



FOOTING REINFORCEMENT PLAN

LEGEND:

- (#) - INDICATES CONCRETE PLACEMENT NUMBER.
- I - STEEL H-PILES (HP12x53), ITEM 551.012053
- I - BATTERED STEEL H-PILES (HP12x53) (6 ON 1), ITEM 551.012053
- I - INDICATES DYNAMIC TEST PILE REQUIRED, ITEM 551.14

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

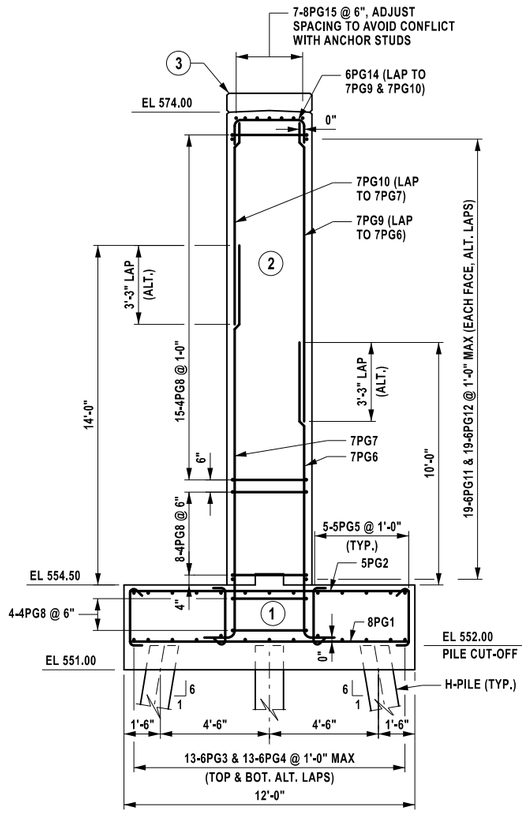
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

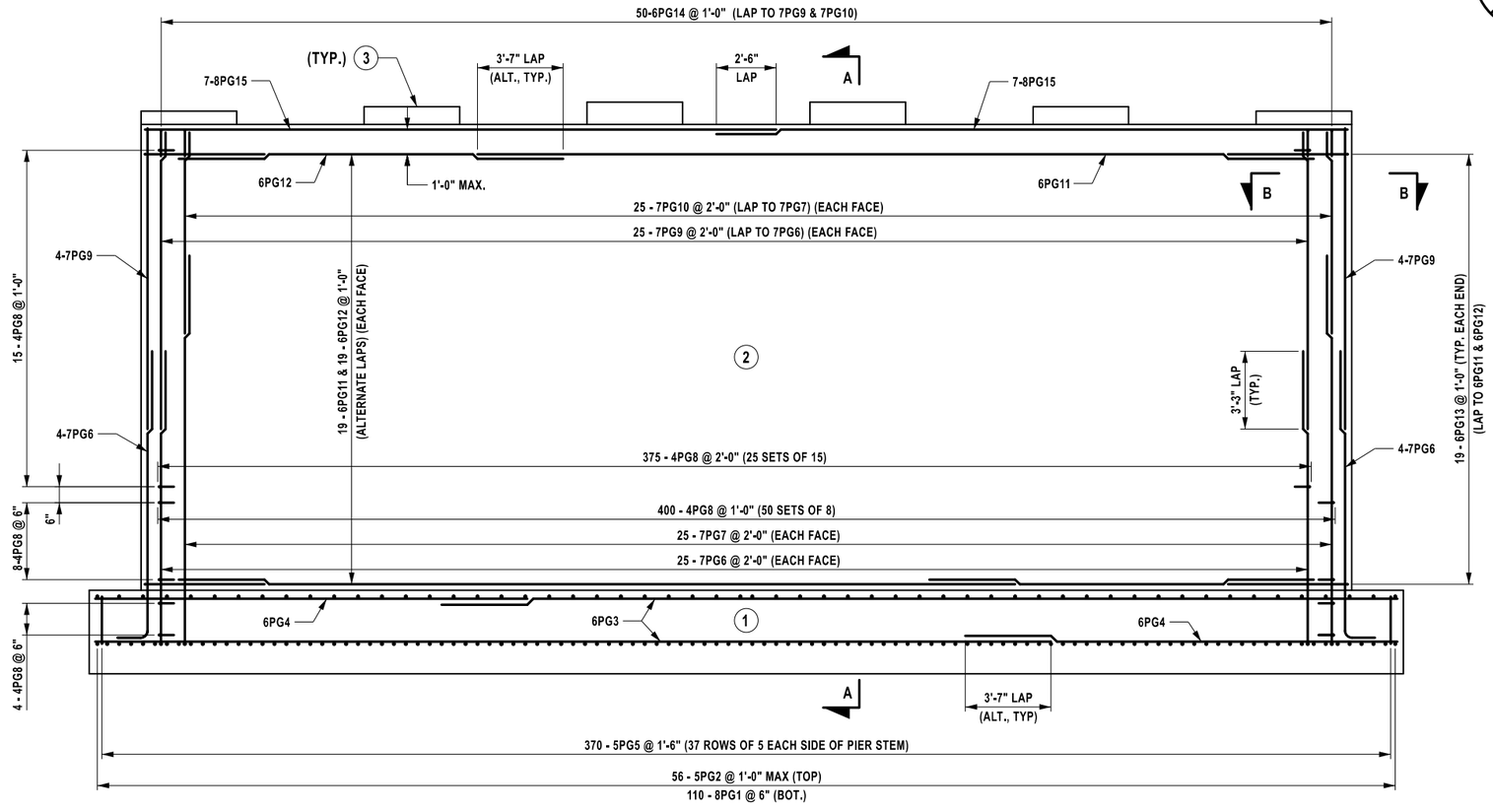
TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	PIER DETAILS (SHEET 1 OF 2)
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ST-21

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: M. PESTINGER
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL

FILE NAME = 121481D_sht_02_pil_pl01.dgn
DATE/TIME = 8/15/2025 7:53
USER = dhoerner



SECTION A-A



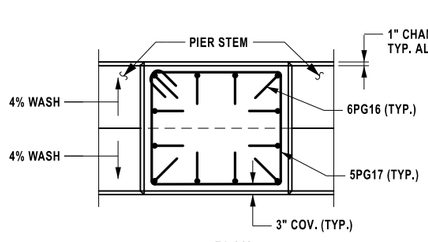
ELEVATION

NOTE:
PILES NOT SHOWN

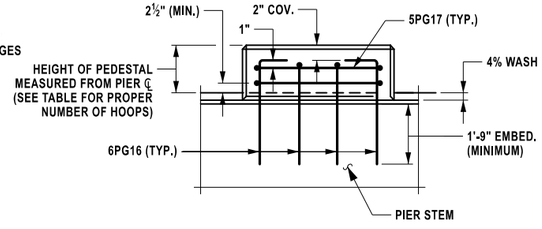
NOTES

1. ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED, ITEM 559.02.
2. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED, ALL OTHER COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
3. COVER IN PIER WALL IS MEASURED TO THE INSIDE OF THE ARCHITECTURAL SCORING.
4. ALL LATERAL TIES IN THE SAME ROW SHALL ALTERNATE ORIENTATION OF THE 135° HOOK BETWEEN FACES.
5. (#) - INDICATES CONCRETE PLACEMENT NUMBER

GIRDER	PEDESTAL HEIGHT	NUMBER OF HOOPS
G1 & G6	6" TO 8"	1
G2 TO G5	8" TO 11"	2

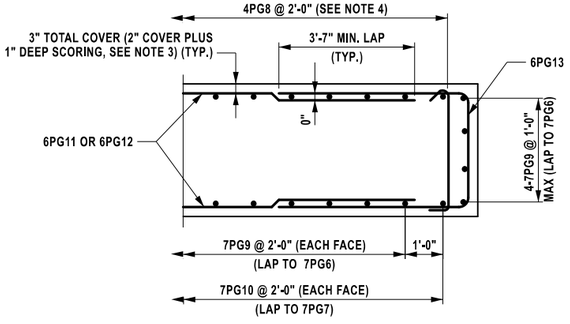


PLAN



ELEVATION

PEDESTAL REINFORCEMENT



SECTION B-B

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

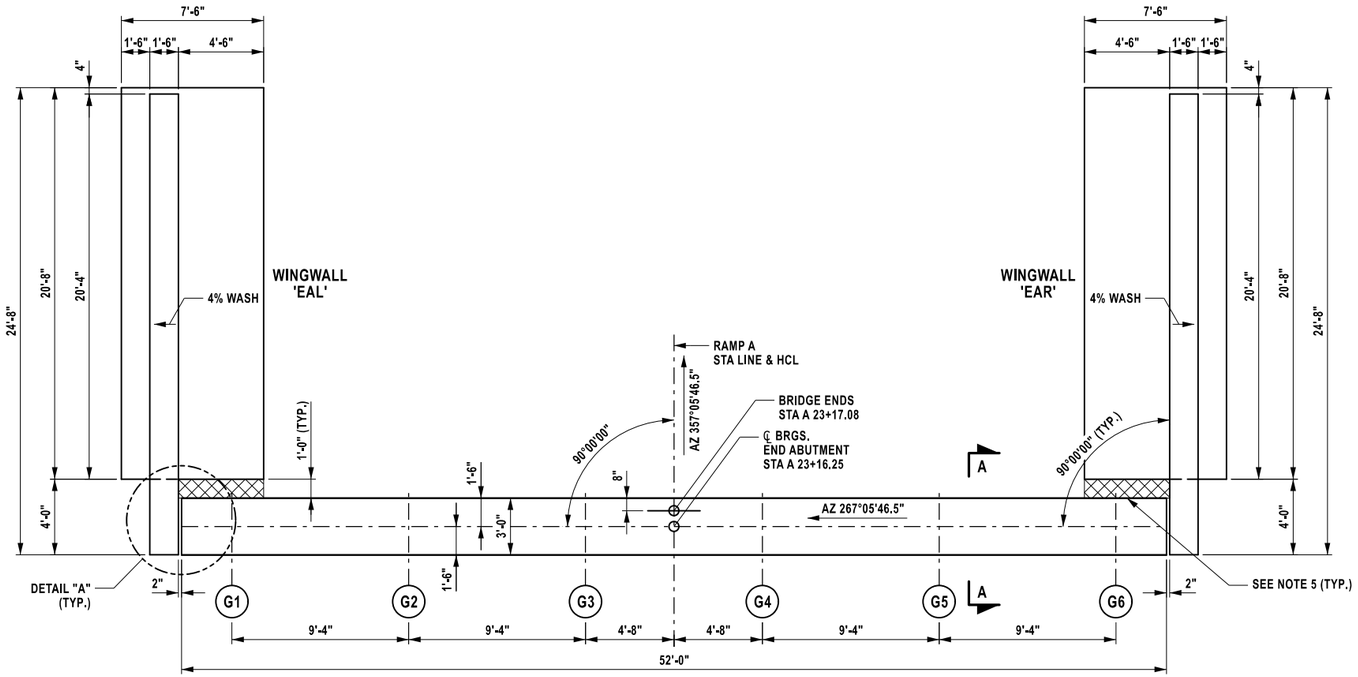
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: PIER DETAILS (SHEET 2 OF 2)

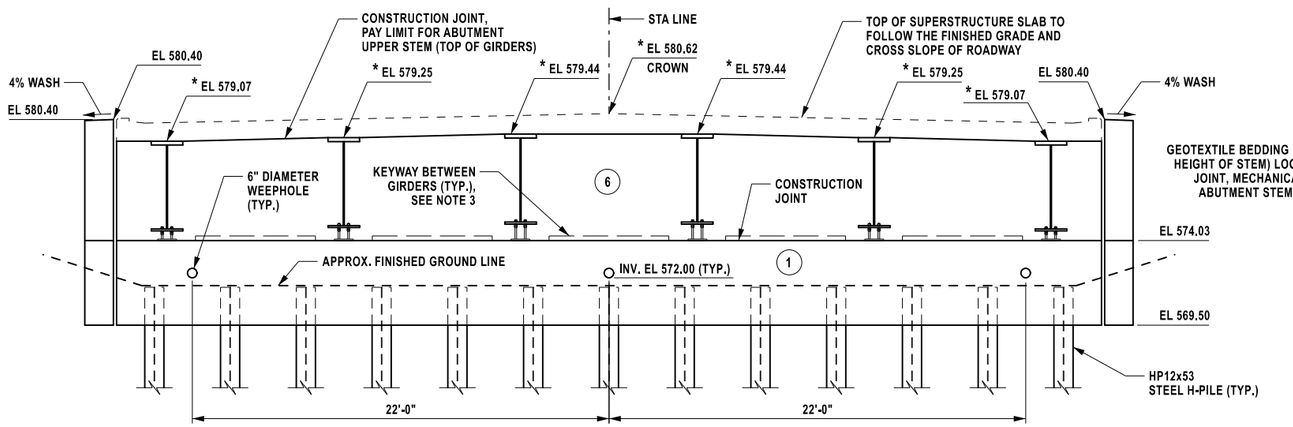
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-22

DESIGNED BY: M. PESTINGER
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

FILE NAME = 121410_pds_02_str_pl_p01_02.dgn
DATE/TIME = 12-AUG-2025 07:33
USER = dhoerner



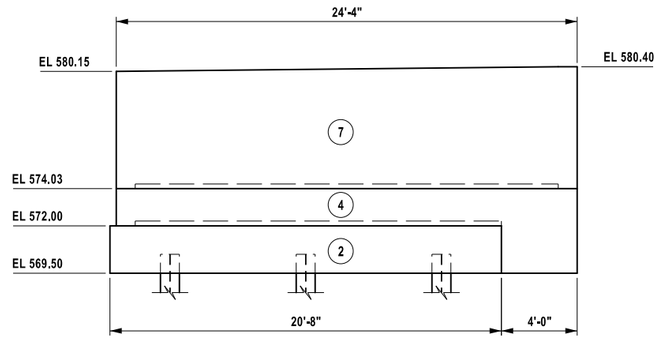
PLAN



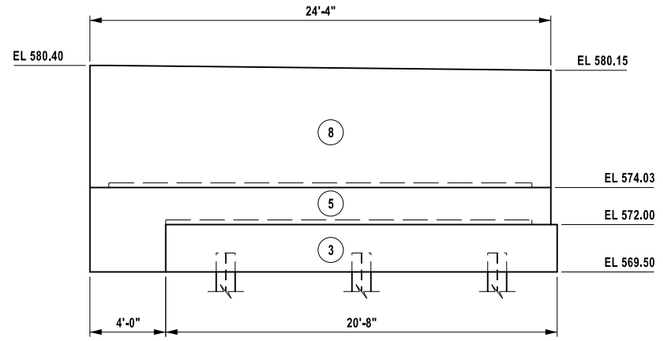
ELEVATION

* THESE ELEVATIONS ARE TAKEN AT ℄ OF BEARINGS

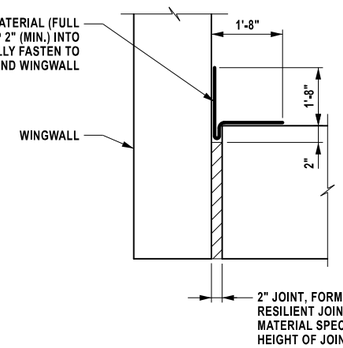
GRID NORTH



WINGWALL 'EAL' ELEVATION



WINGWALL 'EAR' ELEVATION



DETAIL "A"
NOT TO SCALE

CONCRETE TABLE

PLACEMENT	QUANTITY (CY)	ITEM NO.
1	26.2	555.0021
2	14.4	555.0011
3	14.4	555.0011
4	3.4	555.0021
5	3.4	555.0021
6	30.2	555.0021
7	8.5	555.0021
8	8.5	555.0021

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SECTION A-A ST-27
   B. KEYWAY DETAILS ST-52
2. UPPER STEM CONCRETE FROM TOP OF BRIDGE SEAT TO TOP OF GIRDERS SHALL BE POURED PRIOR TO THE SUPERSTRUCTURE SLAB, REFER TO POUR 6 IN CONCRETE TABLE.
3. HORIZONTAL KEYWAYS SHALL STOP 1'-6" FROM CENTERLINE OF GIRDERS AND 1'-0" FROM FACE OF CONCRETE POUR.
4. ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED, ITEM 559.02.
5. THE ELASTIC INCLUSION FOR INTEGRAL ABUTMENTS SHALL ACCOMMODATE A 1.2 INCH DESIGN COMPRESSION. PLACE ELASTIC INCLUSION BETWEEN ABUTMENT STEM AND WINGWALL FOOTING.
6. THE COST OF THE GEOTEXTILE BEDDING MATERIAL AND PREMOLDED RESILIENT JOINT FILLER SHALL BE INCLUDED IN VARIOUS ITEMS OF CONTRACT.

LEGEND

(NO.) - INDICATES CONCRETE PLACEMENT NUMBER

(G#) - INDICATES GIRDER NUMBER

▨ - ELASTIC INCLUSION FOR INTEGRAL ABUTMENTS, ITEM 203.03800001

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: END ABUTMENT PLAN AND ELEVATION

CONTRACT NUMBER: TAB 25-17B

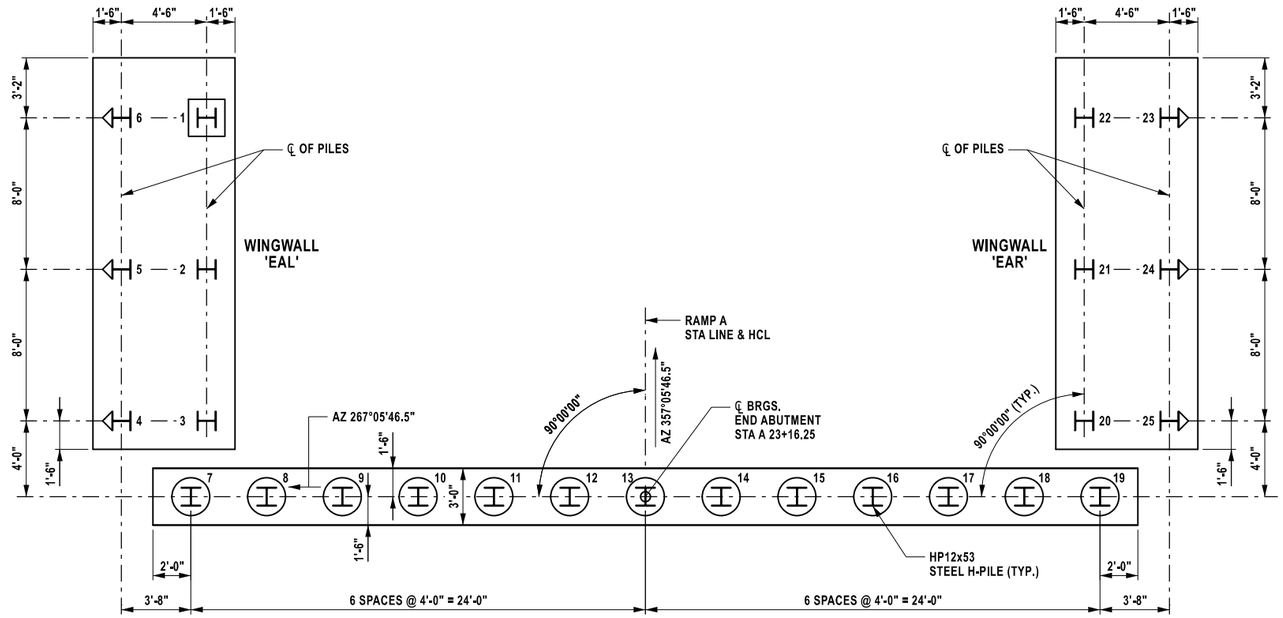
DATE: 08/15/2025

DRAWING NUMBER: ST-23

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
M. SEIDEL

FILE NAME = 021481D_cdb_02_abt_pln_end_01.dgn
LAST TIME = 12:44:10 2025 07:33
USER = dhoerner

PILE LENGTH TABLE	
PILE NO.	LENGTH BELOW CUT-OFF (FT)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	



PILE LAYOUT

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. PILE NOTES ST-7
   - B. STEEL H-PILE SHOES ST-52
   - C. SPLICE FOR STEEL H-PILE ST-52
2. THE PILE CUT OFF ELEVATION FOR THE INTEGRAL ABUTMENT IS 571.50.
3. THE PILE CUT OFF ELEVATION FOR THE WINGWALLS IS 570.50.
4. THE ESTIMATED MINIMUM PILE TIP ELEVATION AT THE ABUTMENT AND WINGWALLS IS 524.00 FEET. ALL PILES SHALL BE SUPPLIED A MINIMUM OF 10 FEET LONGER THAN THE ESTIMATED PILE LENGTH.
5. DYNAMIC PILE TEST SHALL BE CONDUCTED ON THE FIRST PILE DRIVEN AT LOCATION INDICATED OR AT OTHER LOCATION ORDERED BY THE ENGINEER. THE DRIVING CRITERIA FOR THE REMAINING PILES SHALL BE BASED ON THE RESULTS OF THESE TESTS.
6. THE ABUTMENT PILES ARE DESIGNED TO SUPPORT A MAXIMUM STRENGTH LIMIT STATE AXIAL LOAD OF 231 KIPS PER PILE. DRIVE THESE PILES TO A MINIMUM NOMINAL RESISTANCE OF 370 KIPS PER PILE.
7. THE MAXIMUM SERVICE LIMIT STATE AXIAL LOAD FOR THE ABUTMENT PILES IS 191 KIPS PER PILE.
8. THE WINGWALL PILES ARE DESIGNED TO SUPPORT A MAXIMUM STRENGTH LIMIT STATE AXIAL LOAD OF 188 KIPS PER PILE. DRIVE THESE PILES TO A MINIMUM NOMINAL RESISTANCE OF 370 KIPS PER PILE.
9. THE MAXIMUM SERVICE LIMIT STATE AXIAL LOAD FOR THE WINGWALL PILES IS 168 KIPS PER PILE.
10. AFTER COMPLETION OF THE PILE INSTALLATION, THE ENGINEER SHALL COMPLETE THE "PILE LENGTH" TABLE FOR INCLUSION IN THE AS-BUILT PLANS.

LEGEND

- - INDICATES HP12x53, ITEM 551.012053
- - INDICATES HP12x53, BATTERED 6 ON 1, ITEM 551.012053
- - 24" DIA. PREDRILLED HOLE REQUIRED TO A DEPTH OF 8 FEET BELOW BOTTOM OF ABUTMENT STEM, ITEM 551.03020017
- - INDICATES DYNAMIC TEST PILE REQUIRED, ITEM 551.14

DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 121481D_sht_02_091_pl_end_01.dgn
DATE/TIME = 08/15/2025 07:33
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

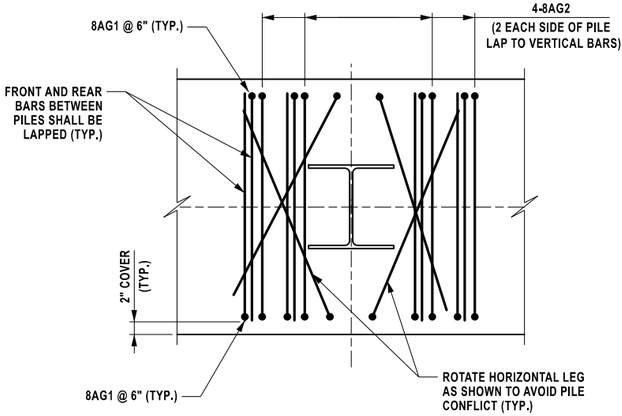
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

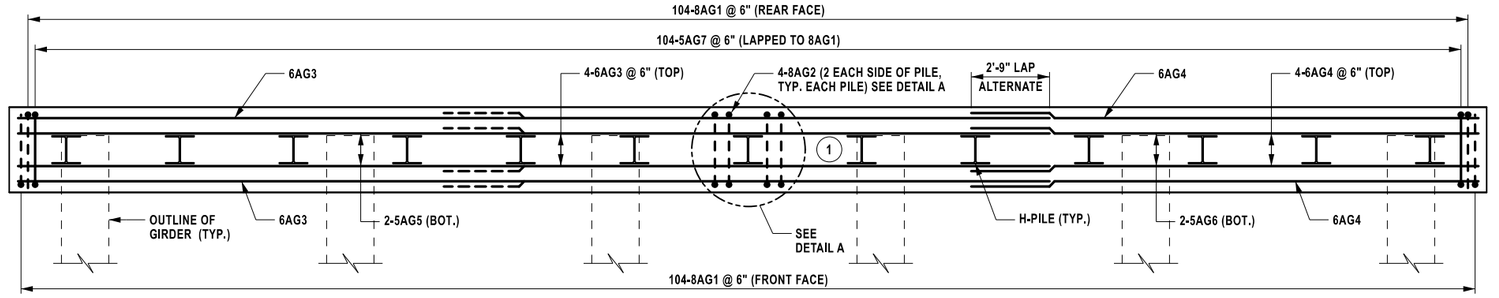
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: END ABUTMENT PILE LAYOUT	DRAWING NUMBER: ST-24

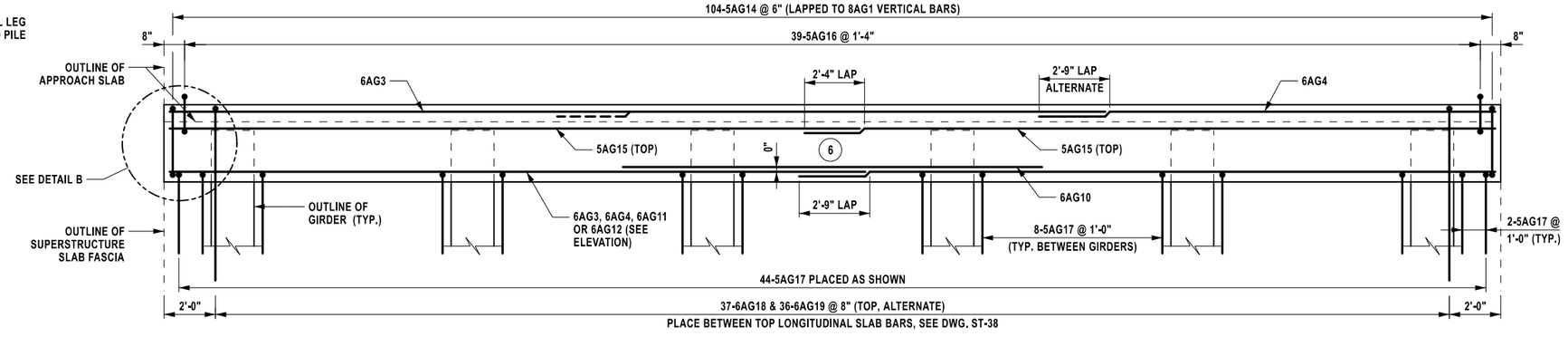
GRID NORTH



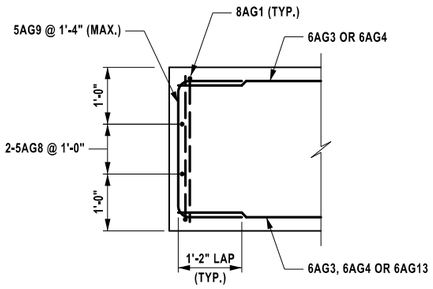
DETAIL A
REINFORCEMENT AT PILES



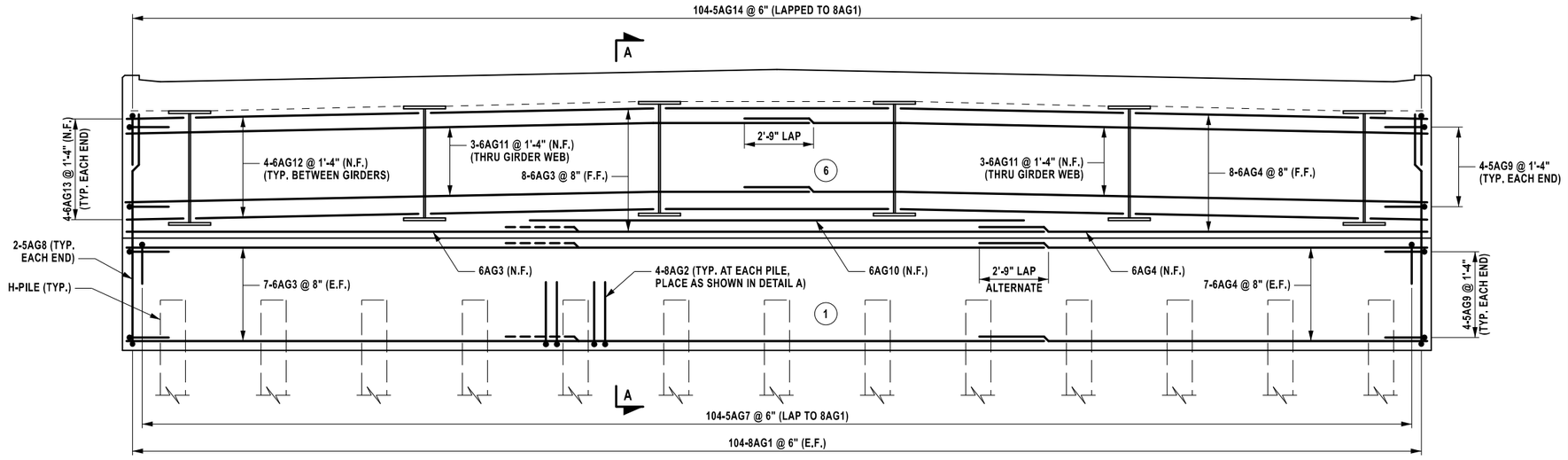
REINFORCEMENT PLAN - LOWER STEM



REINFORCEMENT PLAN - UPPER STEM



DETAIL B
TYPICAL END REINFORCEMENT



REINFORCEMENT ELEVATION

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SECTION A-A ST-27
2. ALL REINFORCEMENT SHALL BE GALVANIZED BAR REINFORCEMENT FOR STRUCTURES, ITEM 556.0203.
3. COVER FOR ALL STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · BRETT D. REYNOLDS · No. 084906 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
END ABUTMENT
REINFORCEMENT

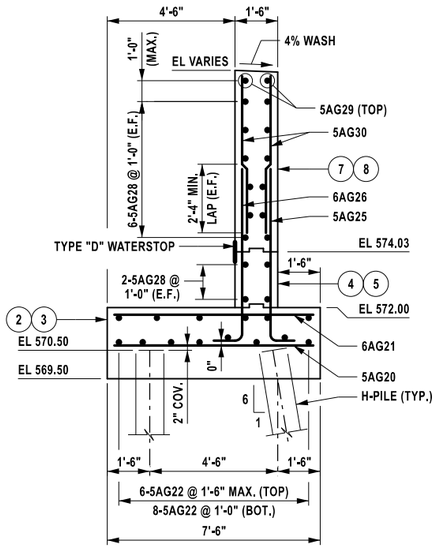
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

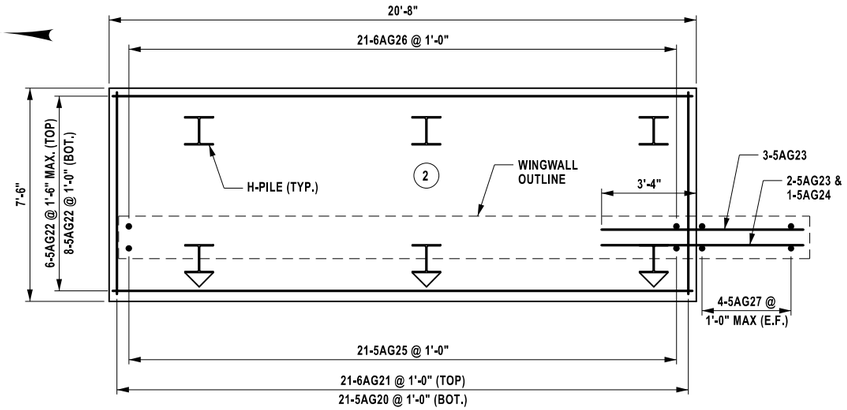
DRAWING NUMBER: ST-25

DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

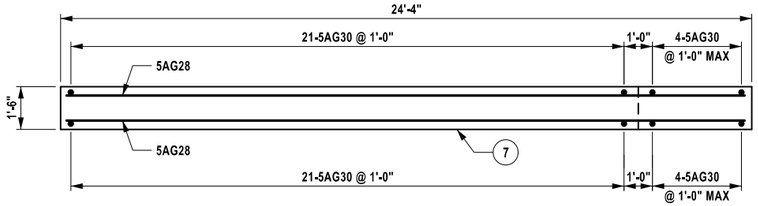
FILE NAME = 021A610_22b_02_gnl_rnf_end_01.dgn
DATE/TIME = 12/4/2025 07:34
USER = dhoerner



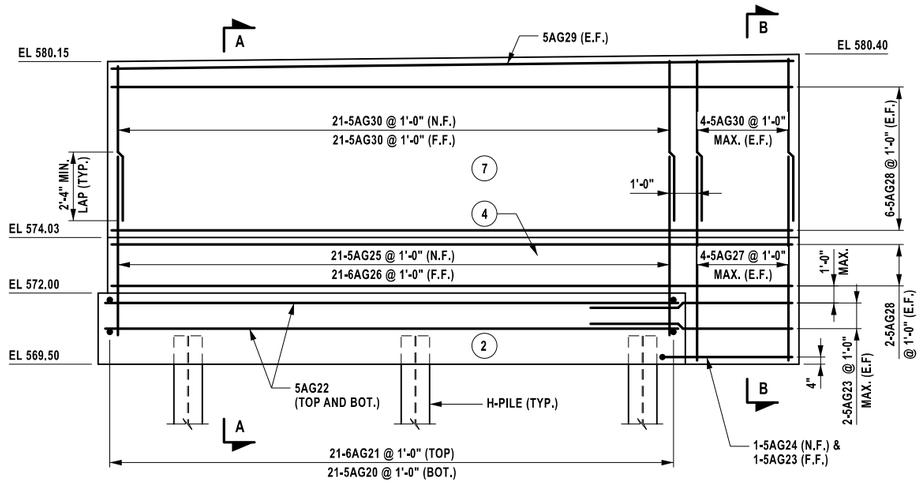
SECTION A-A



FOOTING PLAN

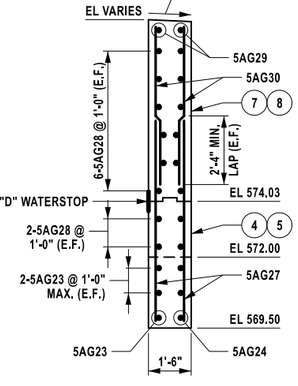


UPPER WINGWALL PLAN

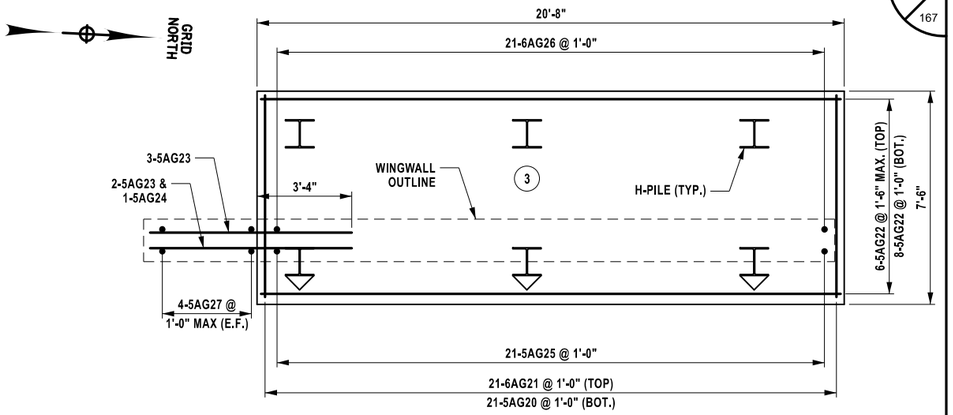


ELEVATION

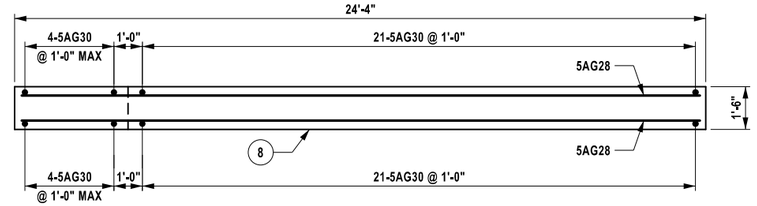
WINGWALL 'EAL' REINFORCEMENT



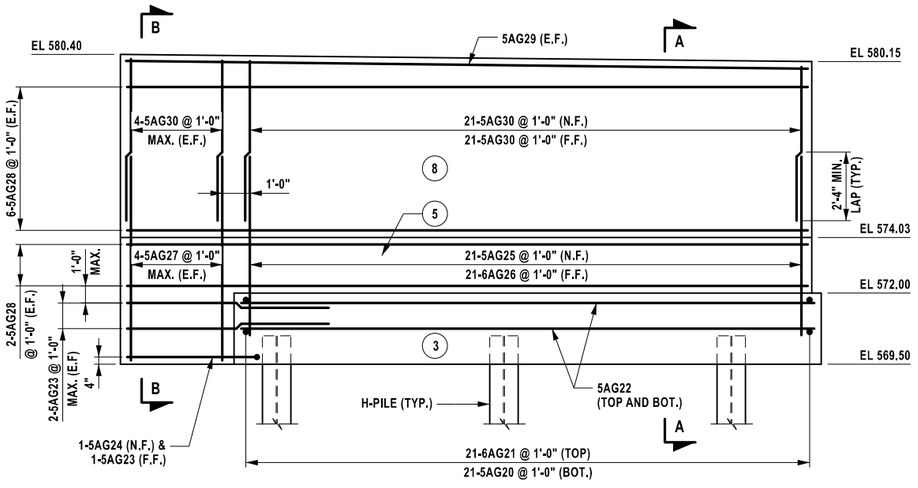
SECTION B-B



FOOTING PLAN



UPPER WINGWALL PLAN



ELEVATION

WINGWALL 'EAR' REINFORCEMENT

NOTES

1. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
2. (NO.) - INDICATES CONCRETE PLACEMENT NUMBER

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: END ABUTMENT WINGWALL REINFORCEMENT

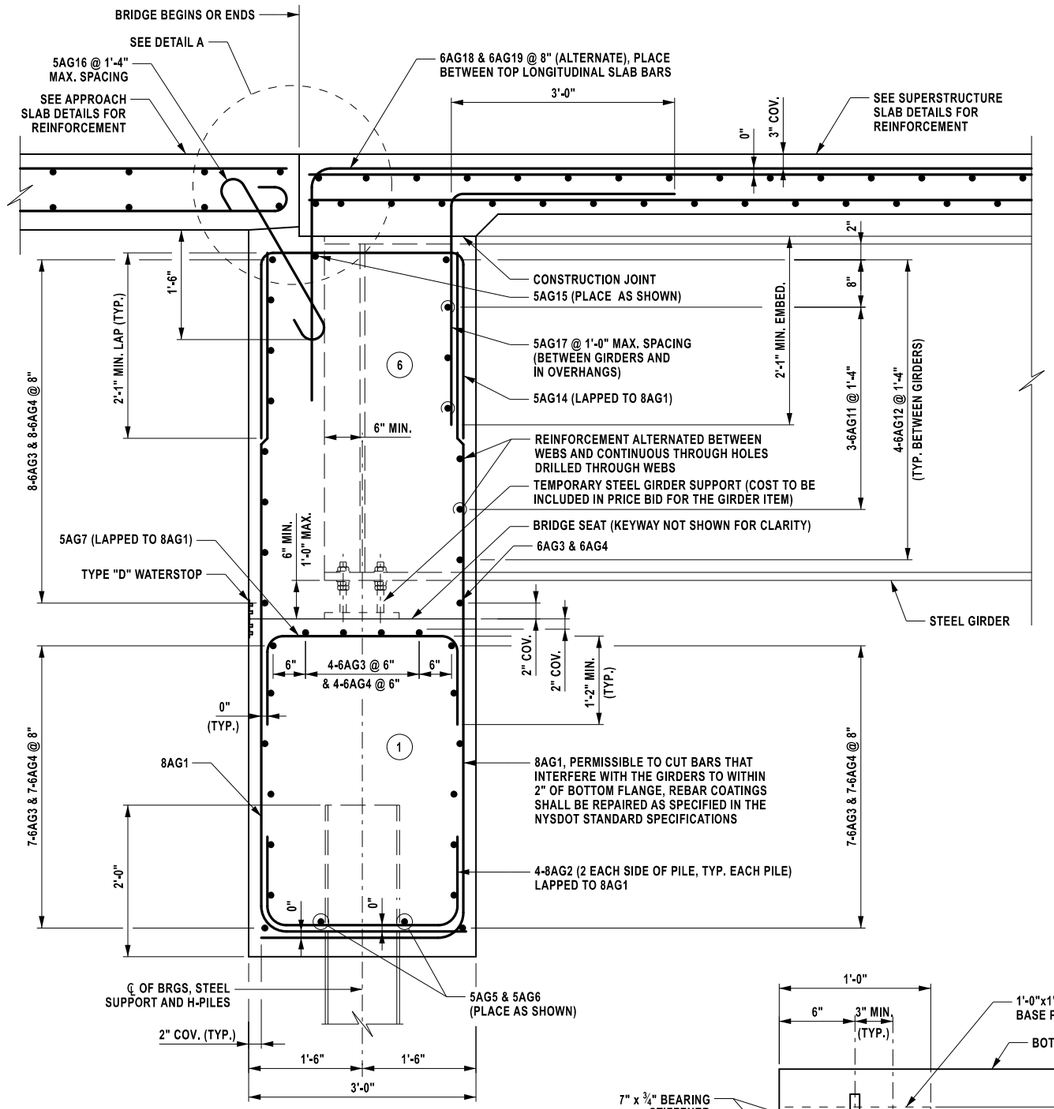
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-26

CHECKED BY: M. SEIDEL
DRAFTED BY: D. HOERNER
DESIGNED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 021810_22b_02_str_mf_end_02.dgn
DATE/TIME = 12-AUG-2025 07:54
USER = dhoerner

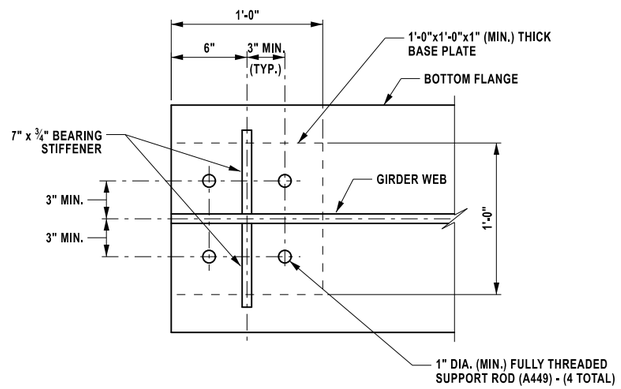


SECTION A-A

NOTE:

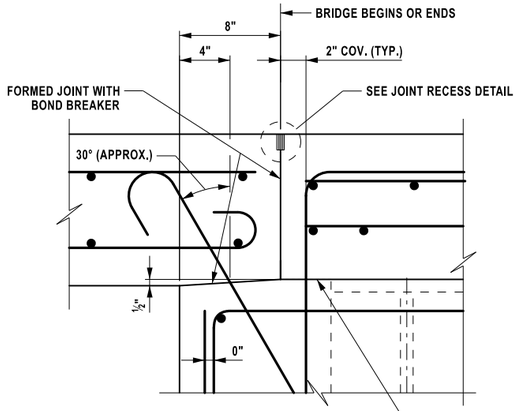
END DIAPHRAGM NOT SHOWN FOR CLARITY.

KEYWAY BETWEEN LOWER STEM AND UPPER STEM NOT SHOWN FOR CLARITY.

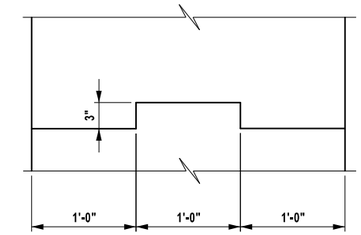


SECTION B-B

NOT TO SCALE

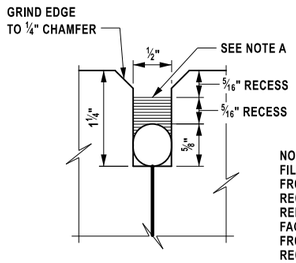


DETAIL A



KEYWAY DETAIL STEEL SUPERSTRUCTURE

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

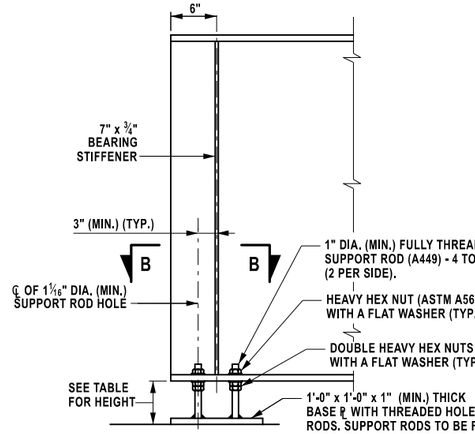


JOINT RECESS DETAIL

NOTE A:
FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, SILICONE SEALANT, FROM THE DEPARTMENT'S APPROVED LIST FOR ITEM 567.51000016. IF THE RECESS IS SAWCUT, WATER BLAST IMMEDIATELY FOLLOWING CUTTING TO REMOVE ANY RESIDUAL SLURRY BEFORE IT DRIES. CLEAN THE VERTICAL FACES OF THE RECESS BY ABRASIVE BLAST, AND AIR BLOW THE RESIDUE FROM THE RECESS. PRIME THE VERTICAL FACES WITH THE MANUFACTURER'S RECOMMENDED PRIMER, AND ALLOW TO DRY. PLACE A ¾" DIA. SOFT CLOSED CELL BACKER ROD IN THE BOTTOM OF THE RECESS. POUR THE SILICONE SEALANT TO A DEPTH OF APPROX. 5/16". PAYMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB.

TEMPORARY STEEL SUPPORT TABLE

GIRDER	HEIGHT	
	BEGIN ABUTMENT	END ABUTMENT
G1	6"	6"
G2	8¼"	8¼"
G3	10½"	10½"
G4	10½"	10½"
G5	8¼"	8¼"
G6	6"	6"



NOTE:
PROVIDE OVERSIZE HOLES IN THE BOTTOM FLANGE FOR SUPPORT RODS.

TEMPORARY STEEL GIRDER SUPPORT

NOT TO SCALE

INTERGRAL ABUTMENT CONSTRUCTION PROCEDURE

1. PREDRILL 24" DIAMETER HOLES TO A DEPTH OF 8 FEET BELOW BOTTOM OF ABUTMENT STEM, ITEM 551.03020017.
2. INSTALL PILES.
3. BACKFILL HOLES WITH SAND CONFORMING TO THE REQUIREMENTS OF MATERIAL SPEC. 703-06, CUSHION SAND. THE COST OF BACKFILLING SHALL BE INCLUDED IN ITEM 551.03020017.
4. PLACE ABUTMENT LOWER STEM CONCRETE TO THE BRIDGE SEAT ELEVATION.
5. BACKFILL ABUTMENT STEMS TO 6" BELOW THE BRIDGE SEAT ELEVATION. NO BACKFILL OF THE ABUTMENT STEMS ALLOWED UNTIL THE ABUTMENTS HAVE CURED FOR 7 DAYS. THE FILL HEIGHT BEHIND ANY SINGLE ABUTMENT STEM SHALL NOT VARY BY MORE THAN 2'-0".
6. PLACE STONE FILL OR SLOPE PROTECTION.
7. ERECT GIRDERS AND INSTALL DIAPHRAGMS. GIRDERS SHALL BE ERECTED PLUMB AND THE DIAPHRAGMS FABRICATED FOR THE STEEL DEAD LOAD POSITION.
8. PLACE ABUTMENT BACKWALL CONCRETE TOP OF GIRDERS.
9. BACKFILL ABUTMENT UPPER STEMS. NO BACKFILLING OF THE ABUTMENT UPPER STEMS IS ALLOWED UNTIL THEY HAVE CURED FOR 7 DAYS. BACKFILLING SHALL BE CONDUCTED SUCH THAT THE MAXIMUM DIFFERENTIAL IN FILL HEIGHT BETWEEN THE TWO UPPER STEMS (AS MEASURED FROM THE BOTTOM OF THE STEM) DOES NOT EXCEED 2'-0". IN ADDITION, THE FILL HEIGHT BEHIND ANY SINGLE ABUTMENT UPPER STEM SHALL NOT VARY BY MORE THAN 2'-0".
10. PLACE CONCRETE FOR DECK SLAB, SEE POUR SEQUENCE ON DWG. ST-38. (CONTRACTOR MAY ELECT TO PLACE CONCRETE FOR DECK SLAB PRIOR TO BACKFILLING ABUTMENTS. DECK SLAB SHALL NOT BE PLACED UNTIL BACKWALLS HAVE CURED FOR 7 DAYS.)
11. PLACE CONCRETE FOR APPROACH SLABS.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: ABUTMENT DETAILS

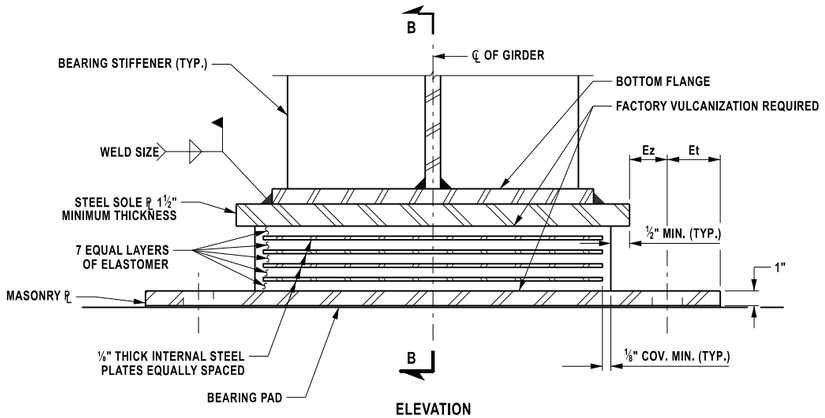
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

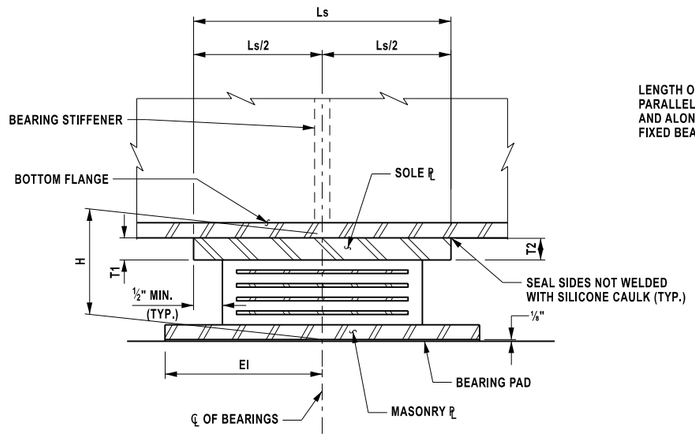
DRAWING NUMBER: ST-27

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

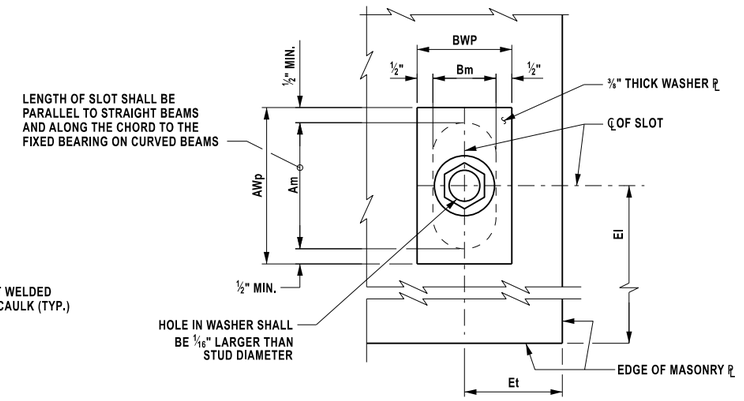
FILE NAME = 021481D_sht_02_gen_det_01.dgn
TIME = 11:40:00 2025 07:34
DATE = 8/15/2025
USER = dhoerner



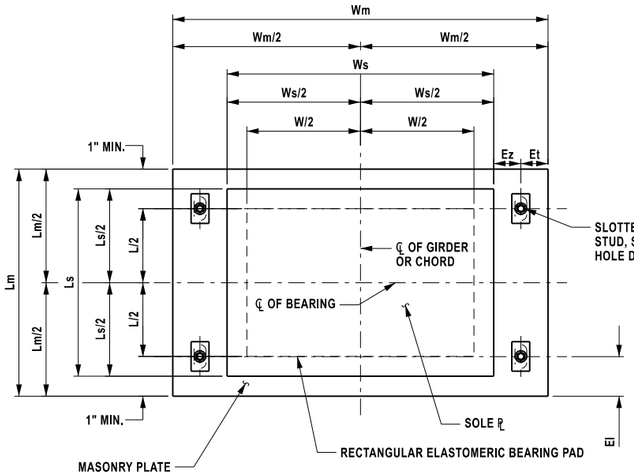
ELEVATION
TYPICAL EXPANSION BEARING



SECTION B-B



TYPICAL SLOTTED HOLE DETAIL
MASONRY PLATE



PLAN
TYPICAL RECTANGULAR EXPANSION BEARING

NOTES:

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

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

ALL STEEL EXCEPT THE INTERNAL STEEL PLATES SHALL CONFORM TO ASTM A709, GR. 50, UNLESS OTHERWISE NOTED.

BEARING PADS SHALL CONFORM TO ONE OF THE FOLLOWING MATERIAL SPECIFICATIONS: 728-01, 728-02 OR 728-03.

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

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

THE BEARING PAD, ANCHOR STUDS WASHER PLATES AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF SOLE PLATE.

EXPANSION ELASTOMERIC BEARING (TYPE E.B.) TABLE

LOCATION	ITEM NO.	QUANTITY REQUIRED	D.L. + S.D.L. (kips)	L.L. WITHOUT IMPACT (kips)	TOTAL DESIGN REACTION (kips)	SHAPE FACTOR	ELASTOMER LAYER					hrt	COMP. AREA (SQ. In.)	SHEAR AREA (SQ. In.)	MASONRY PLATE								ANCHOR STUDS		WELD SIZE	WASHER PLATE		SOLE PLATE				BRG. H
							THK/LAYER	NO. LAYERS	L	W	D				Wm	Lm	Tm	Et	EI	Ez	Am	Bm	DIA.	STUDS/BRG.		AWp	BWp	Ws	Ls	T1	T2	
G1-G6: PIER	565.2035	6	332.2	191.6	523.8	10.29	0.50	7	18.0	24.0	-	3.50	421.6	432.0	33.0	20.0	1.0	2.0	4.0	2.0	2.75	1.625	1.25	4	0.313	3.75	2.625	25.0	19.0	1.5	1.5	6.75

TABLE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

T2 IS UPSTATION OF T1.

LOADS SHOWN IN THIS TABLE ARE UNFACTORED.

DESIGNED BY: JMC
DRAFTED BY: AA
CHECKED BY: JMC
DESIGN SUPERVISOR: JMC

ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON: 8/15/2025
SIGNATURE:
STAMP:
STATE OF NEW YORK
JAMES M. CUMMINGS
080958
LICENSED PROFESSIONAL ENGINEER
EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0016220 PA CERTIFICATE NO. TSC203131464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

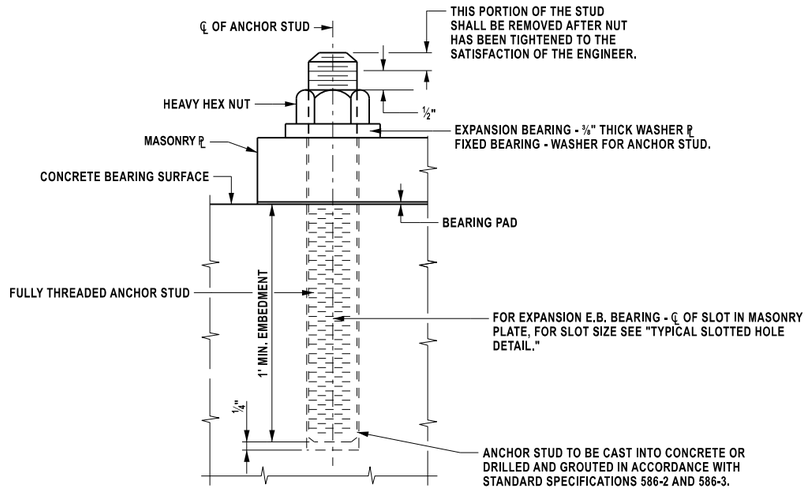
TITLE OF DRAWING
BEARING DETAILS
(SHEET 1 OF 2)

CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

DRAWING NUMBER:
ST-28

DRAFTED BY: AA
CHECKED BY: JMC
DESIGNED BY: JMC
CHECKED BY: JMC
DESIGN SUPERVISOR: JMC



ANCHOR STUD

ANCHOR STUDS, WASHERS, WASHER PLATES, ANCHOR PLATES, AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS." THE COST, INCLUDING GALVANIZING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

ANCHOR STUD WITH ANCHOR PLATE

NOTES:

THE MINIMUM DISTANCE FROM THE MASONRY ℙ TO AN EXPOSED FACE OF THE PEDESTAL SHALL BE 3". THE MINIMUM ANCHOR STUD COVER SHALL BE 8."

ALTERED ON:	AFFIXED ON: 8/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · JAMES M. CUMMINGS · 080958 · LICENSED PROFESSIONAL ENGINEER EXP. 12/31/2026

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE | Thruway Authority

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7950
TOWANDA, PA 570 - 265 - 4868 BINGHAMTON, NY 607 - 798 - 8081
ALBANY, NY 607 - 798 - 8081 WWW.HUNT-EAS.COM
NY CERTIFICATE NO. 0018220 PA CERTIFICATE NO. TSC2203131464-1

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

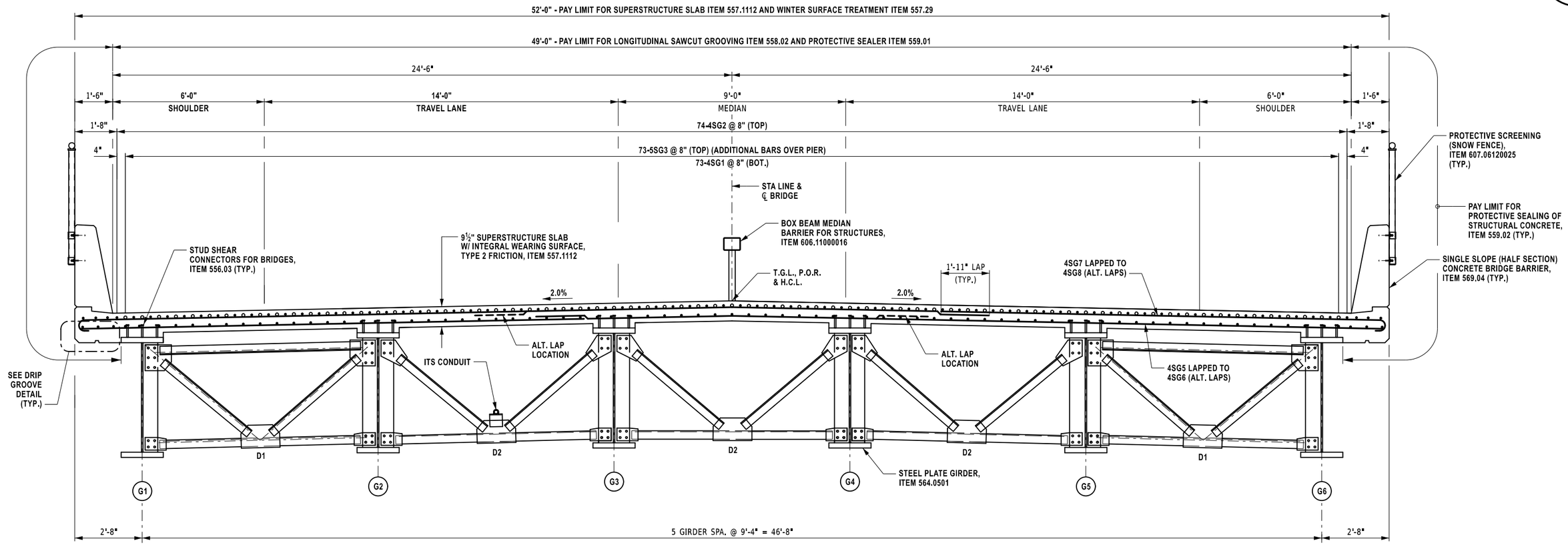
LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
BEARING DETAILS
(SHEET 2 OF 2)

CONTRACT NUMBER:
TAB 25-17B

DATE:
8/15/2025

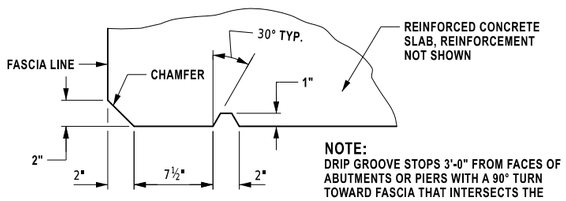
DRAWING NUMBER:
ST-29



TRANSVERSE SECTION
(LOOKING UPSTATION)

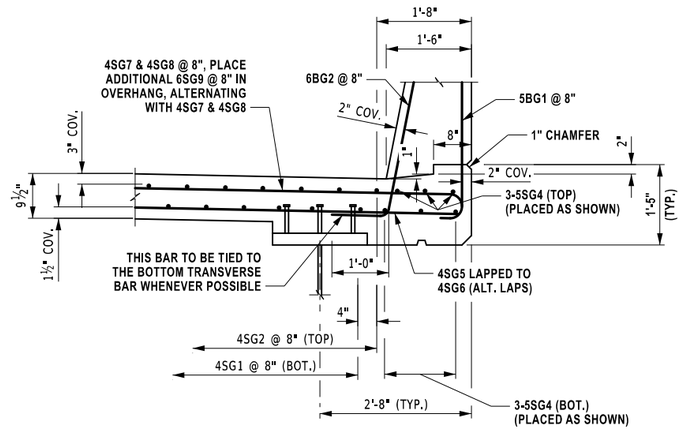
NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. SUPERSTRUCTURE SLAB REINFORCEMENT ST-38
   - B. GIRDER ELEVATION AND DETAILS ST-32
   - C. DIAPHRAGM DETAILS ST-33
   - D. STUD SHEAR CONNECTORS ST-32
   - E. CONCRETE BARRIER DETAILS ST-42
   - F. ITS CONDUIT PLAN ITS-1
   - G. ITS SUPPORT DETAILS ITS-2
2. (#) - INDICATES GIRDER NUMBER
3. D# DENOTES DIAPHRAGM TYPE
4. COVER ABOVE TOP LONGITUDINAL BARS SHALL BE 3". COVER BELOW BOTTOM TRANSVERSE BARS SHALL BE 1½".



NOTE:
DRIP GROOVE STOPS 3'-0" FROM FACES OF ABUTMENTS OR PIERS WITH A 90° TURN TOWARD FASCIA THAT INTERSECTS THE CHAMFER.

DRIP GROOVE DETAIL
NOT TO SCALE



FASCIA DETAIL

ALTERED ON:	AFFIXED ON:
	08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

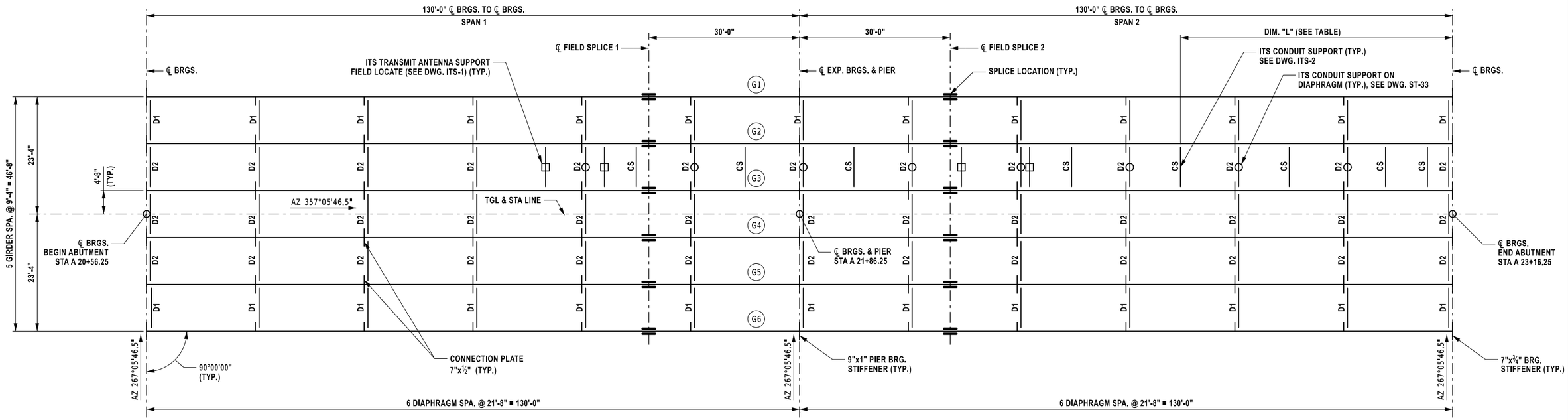
BERGMANN
ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	TRANSVERSE BRIDGE SECTION
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ST-30

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: A. MAIER
DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

FILE NAME = 121481D_sht_02_sec_trn.dgn
DATE/TIME = 8/14/2025 07:34
USER = dhoerner

GRID NORTH



FRAMING PLAN

ITS SUPPORT LEGEND:

- D2 — L6x4x⅜ CONDUIT SUPPORT ON TYPE D2 DIAPHRAGM
- CS — L4x4x½ CONDUIT SUPPORT
- WT4x9 TRANSMIT ANTENNA SUPPORT

NOTES:

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. STEEL GIRDER DETAILS ST-32
   - B. DIAPHRAGM DETAILS ST-33
   - C. GIRDER SPLICE DETAILS ST-34
   - D. ITS SUPPORT DETAILS ITS-2
2. THE ITS TRANSMIT ANTENNA SUPPORT LOCATIONS SHOWN IN THE TABLE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION.
3. THE ITS CONDUIT SUPPORT BETWEEN DIAPHRAGMS SHALL BE INSTALLED IN FIELD DRILLED HOLES, SEE DETAILS ON DWG. ITS-2.

ITS SUPPORT LOCATIONS

DIMENSION "L"	SUPPORT TYPE
5'-0"	L4x4x1/2
13'-4"	L4x4x1/2
21'-8"	DIAPHRAGM
32'-6"	L4x4x1/2
43'-4"	DIAPHRAGM
54'-2"	L4x4x1/2
65'-0"	DIAPHRAGM
75'-10"	L4x4x1/2
85'-3"	WT4x9
86'-8"	DIAPHRAGM
97'-9"	WT4x9
108'-4"	DIAPHRAGM
119'-2"	L4x4x1/2
130'-0"	DIAPHRAGM
140'-10"	L4x4x1/2
151'-8"	DIAPHRAGM
162'-6"	L4x4x1/2
168'-10"	WT4x9
173'-4"	DIAPHRAGM
180'-7"	WT4x9

DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

FILE NAME = D214810_sht_02.dgn
DATE/TIME = 08/14/2025 07:34
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

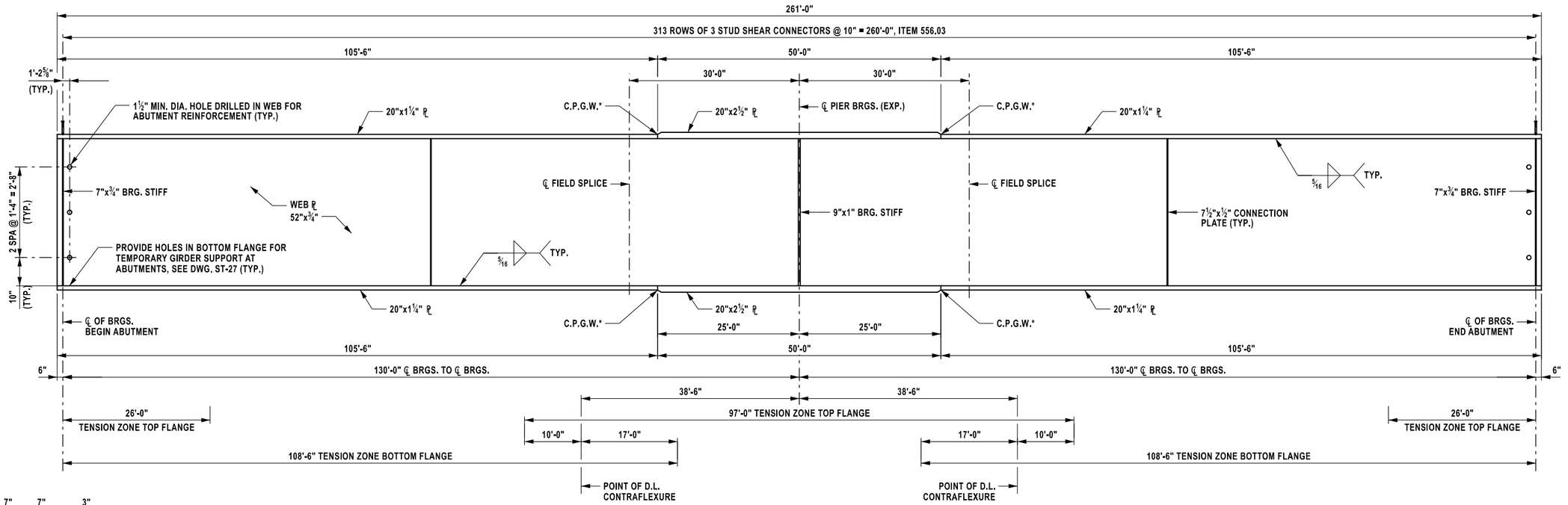
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: FRAMING PLAN

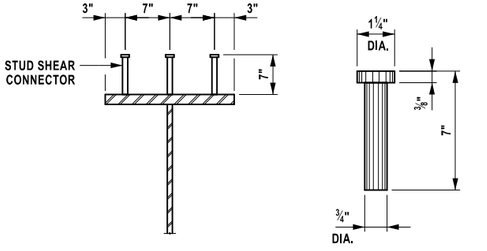
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-31



SPAN 1

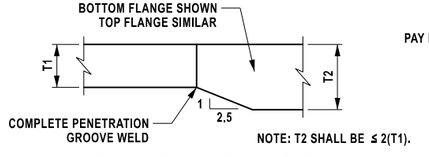
SPAN 2

GIRDER ELEVATION



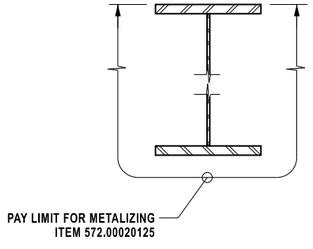
STUD SHEAR CONNECTOR DETAIL

STUD DETAIL

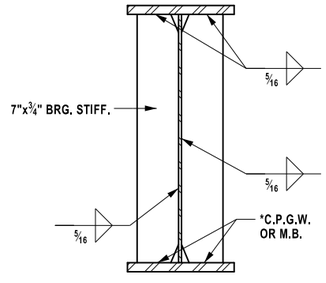


NOTE: T2 SHALL BE ≤ 2(T1).

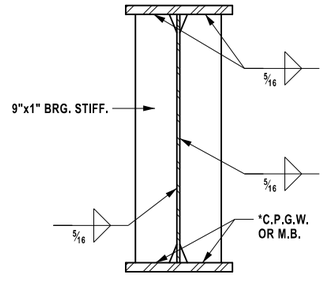
FLANGE THICKNESS TAPER



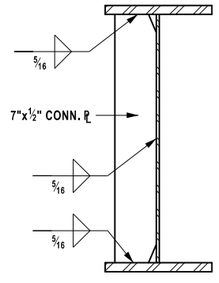
GIRDER METALIZING SECTION
NOT TO SCALE



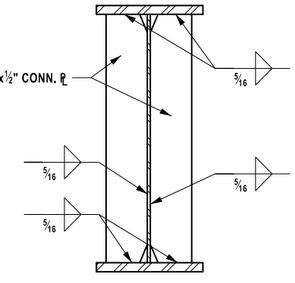
BEARING STIFFENER AT ABUTMENT



BEARING STIFFENER AT PIER



FASCIA GIRDER CONNECTION PL



INTERIOR GIRDER CONNECTION PL

NOTES

* C.P.G.W. = COMPLETE PENETRATION GROOVE WELD

* M.B. = MILL TO BEAR

UNLESS SHOWN IN THESE DETAILS, THERE SHALL BE NO WELDING WITHIN THE TENSION ZONES. THE ATTACHMENT OF FORMING DEVICES OR OTHER CONSTRUCTION AIDS BY WELDING WITHIN THE TENSION AREA SHOWN IS PROHIBITED.

THERE SHALL BE NO WELDING TO GALVANIZED OR METALIZED GIRDERS FOR THE ATTACHMENT OF FORMING DEVICES.

THE ENDS OF ALL GIRDERS AND THE BEARING STIFFENERS SHALL BE VERTICAL UNDER FULL DEAD LOAD. ALL CONNECTION PLATES AND INTERMEDIATE STIFFENERS MAY BE PERPENDICULAR TO THE TOP FLANGES.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: GIRDER ELEVATION AND SECTIONS

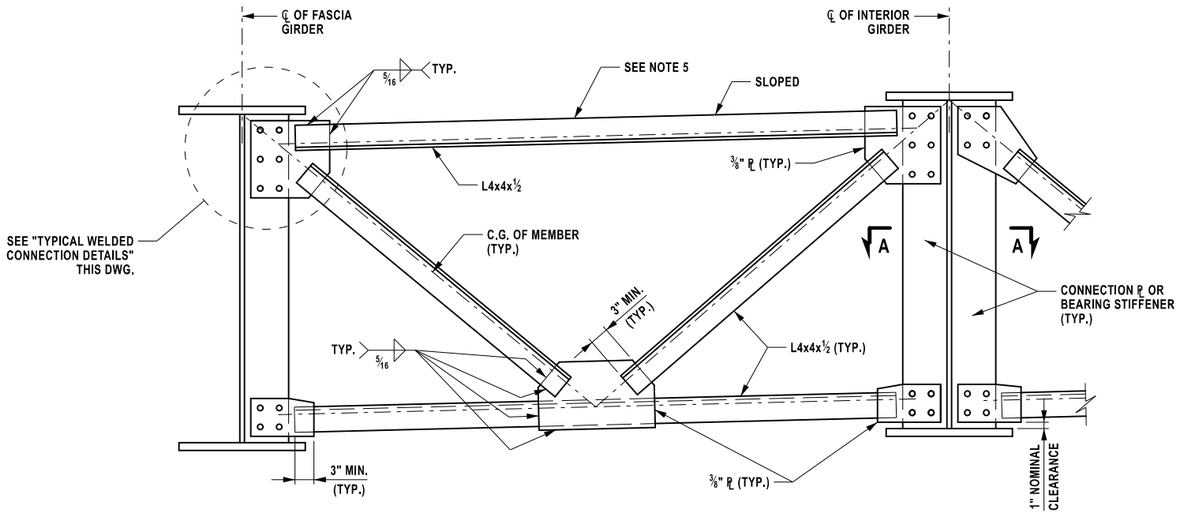
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

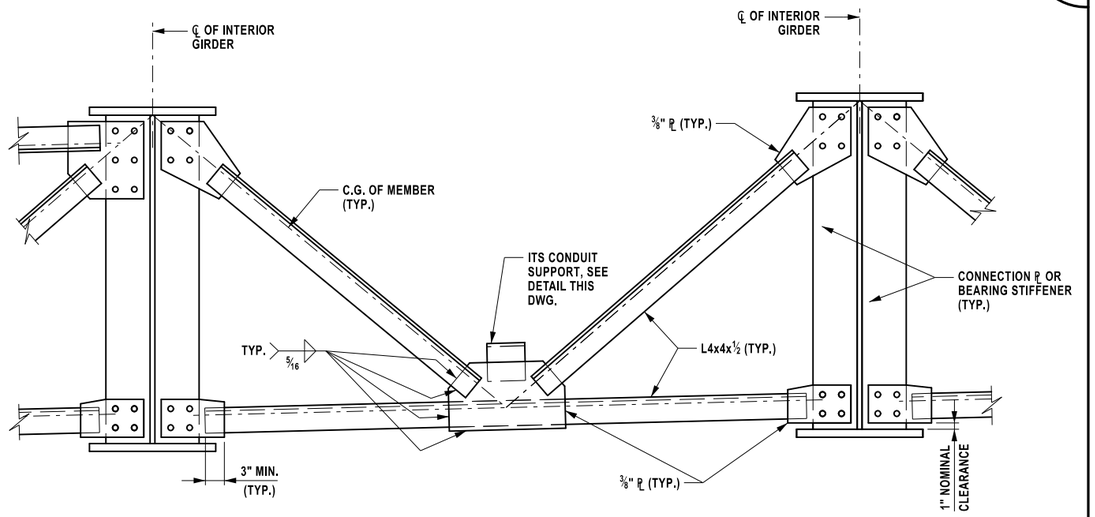
DRAWING NUMBER: ST-32

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: D. HOERNER
DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL

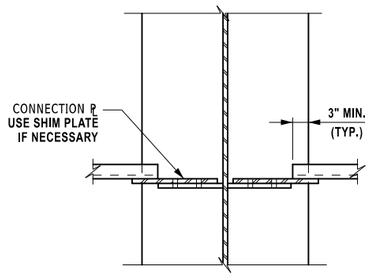
FILE NAME = 021A812_sds_02_dtl_elv_01.dgn
LAST PLOT = 12-AUG-2025 07:54
USER = dhoerner



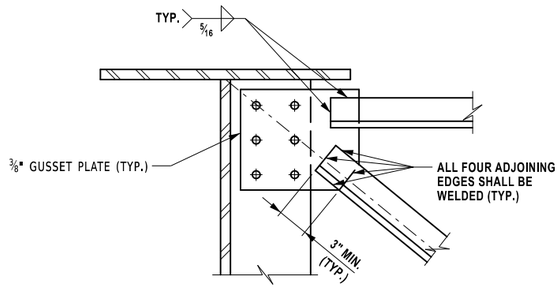
FASCIA DIAPHRAGM - TYPE D1



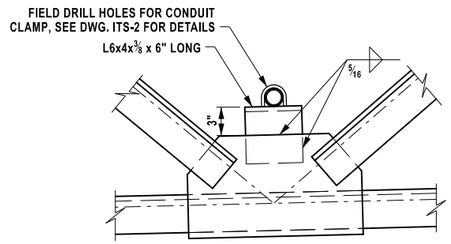
INTERIOR DIAPHRAGM - TYPE D2



SECTION A-A



TYPICAL WELDED CONNECTION DETAILS



ITS CONDUIT SUPPORT DETAIL AT TYPE D2 DIAPHRAGM

NOTES:

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. TRANSVERSE SECTION ST-30
   - B. LOCATION OF D1 & D2 ..... ST-31
   - C. GIRDER DETAILS ST-32
2. CONNECTIONS SHALL BE MADE ACCORDING TO THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
3. UNLESS OTHERWISE INDICATED, BOLTED CONNECTIONS SHALL BE MADE WITH ⅞" DIA. ASTM F3125, GRADE A325 HIGH-STRENGTH BOLTS.
4. THE CONTRACTOR MAY PLACE DIAPHRAGMS ON EITHER SIDE OF THE BEARING STIFFENERS OR CONNECTION PLATES AS NECESSARY FOR CORRECT ALIGNMENT, PROVIDED THERE WILL BE NO INTERFERENCE WITH OTHER STRUCTURAL DETAILS.
5. IN ORDER TO MAXIMIZE THE DISTANCE BETWEEN THE OUTSTANDING LEG OF THE TOP STRUT AND THE BOTTOM OF THE STRUCTURAL SLAB, THIS STRUT SHALL BE ORIENTED AS SHOWN. IN ADDITION, ON STRUCTURES WITH STRAIGHT BEAMS OR GIRDERS, THE POSITION OF THIS STRUT SHALL BE LOWERED (TO THE EXTENT THAT IT DOES NOT INTERFERE WITH THE ALIGNMENT OF THE DIAGONAL STRUTS AS SHOWN).
6. ALL BOLT HEADS SHALL BE PLACED ON THE TOP SIDE OF CONNECTIONS UNLESS OTHERWISE NOTED.

DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 121810_2025_02_str_st_02.dgn
DATE/TIME = 12-AUG-2025 07:34
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

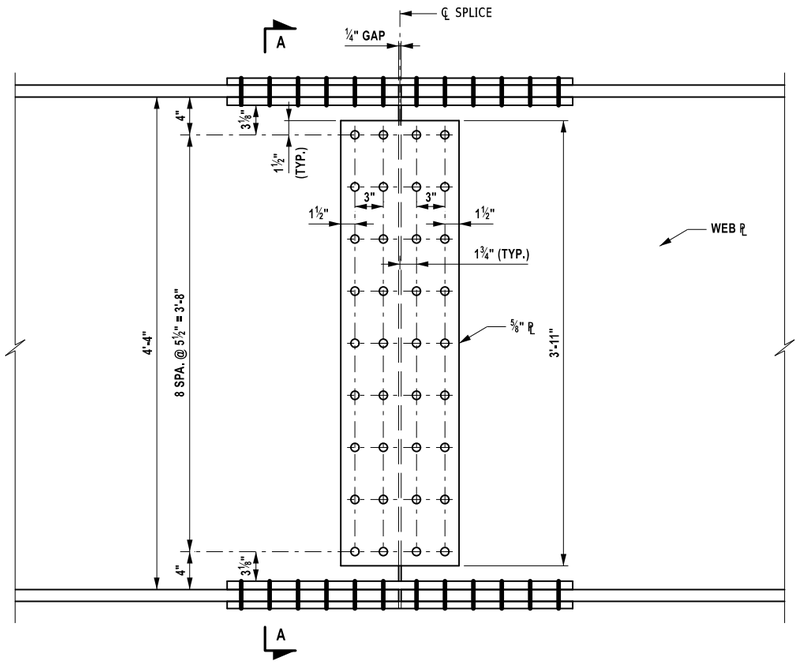
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

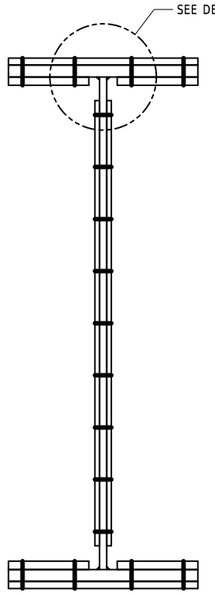
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: DIAPHRAGM DETAILS

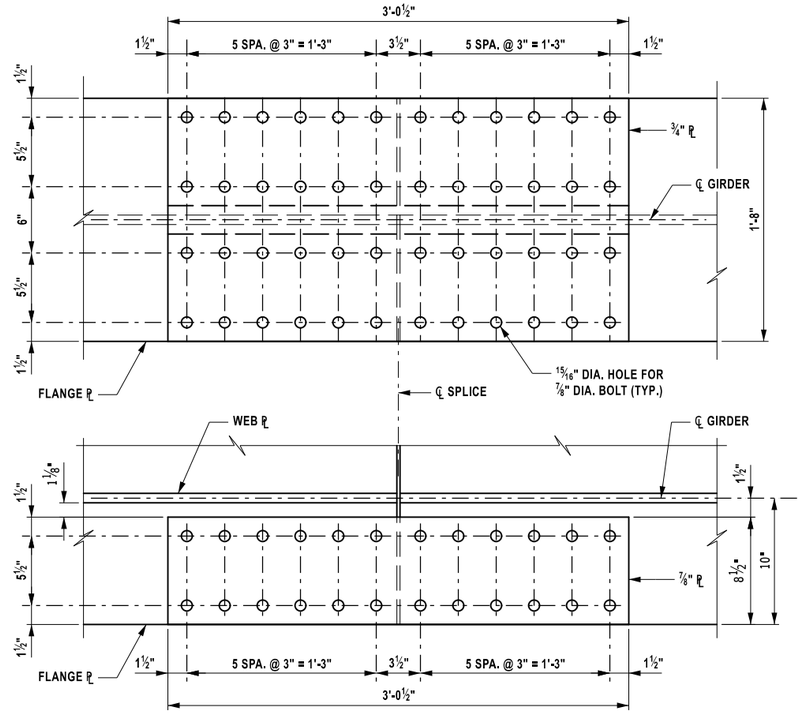
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-33



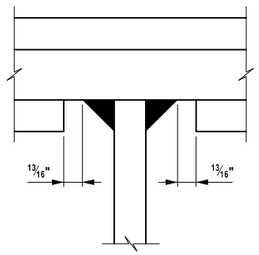
WEB SPLICE DETAIL



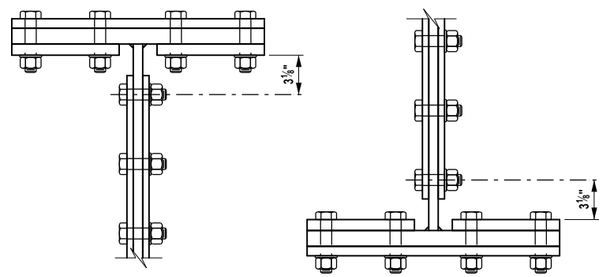
SECTION A-A



TOP AND BOTTOM FLANGE SPLICE DETAIL



DETAIL "A"



TOP FLANGE **BOTTOM FLANGE**

NOTE:
ALL BOLT HEADS SHALL BE PLACED ON THE TOP SIDE OF CONNECTION UNLESS OTHERWISE NOTED.

⅞" DIAMETER BOLT ENTERING AND TIGHTENING CLEARANCES

	TOP FLANGE SPLICE	BOTTOM FLANGE SPLICE	WEB SPLICE
SPLICE ℙ	1 - ℙ 20"x¾"x3'-0½" 2 - ℙ 8½"x⅞"x3'-0½"	1 - ℙ 20"x¾"x3'-0½" 2 - ℙ 8½"x⅞"x3'-0½"	2 - ℙ 12½"x⅝"x3'-11"
NO. OF BOLTS	24 EACH SIDE	24 EACH SIDE	18 EACH SIDE

NOTE

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SPLICE LOCATIONS ST-31

SPLICE NOTES

ALL COSTS FOR BOLTS, NUTS, AND WASHERS SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL.

SPLICE DESIGNS ARE BASED ON THE LOCATIONS INDICATED. THE CONTRACTOR HAS THE OPTION OF USING ALTERNATE SPLICE LOCATIONS. HOWEVER, RELOCATION REQUESTS MUST BE SUBMITTED TO THE AUTHORITY FOR APPROVAL. FIELD SPLICE REVISIONS DUE TO SPLICE RELOCATION SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR RELOCATING THE SPLICE. FABRICATION SHALL CONFORM TO THE CURRENT NEW YORK STATE STEEL CONSTRUCTION MANUAL.

ALL SPLICE PLATES SHALL CONSIST OF THE SAME GRADE OF STEEL AS THE MEMBERS BEING SPLICED AND THEIR COST INCLUDED IN THE PRICE BID FOR THE STRUCTURAL STEEL.

SUBJECT TO STATE APPROVAL, THE CONTRACTOR CAN PROPOSE THE USE OF A WELDED SPLICE. HOWEVER, ALL COSTS ASSOCIATED WITH THIS CHANGE WILL BE AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, A DETAILED WELDING PROCEDURE, AS PER NYS STEEL CONSTRUCTION MANUAL 203.5(B), OF THE NYS STEEL CONSTRUCTION MANUAL SHALL BE SUBMITTED TO THE AUTHORITY FOR APPROVAL.

BOLT LOCATIONS SHOWN MAY HAVE TO BE MOVED LATERALLY ON THEIR FLANGE TO MEET SEALING REQUIREMENTS AS DESCRIBED IN SECTION 203.14 OF THE NYS STEEL CONSTRUCTION MANUAL.

ALL BOLTS SHALL BE ⅞" DIAMETER, UNLESS NOTED OTHERWISE.

BOLTS SHALL BE ASTM F3125, GRADE A325, TYPE 1 (HOT DIPPED GALVANIZED).

NUTS SHALL BE A563, GRADE DH (HOT DIPPED GALVANIZED); OR A194, GRADE 2H (HOT DIP GALVANIZED).

WASHERS SHALL BE F436, (HOT DIPPED GALVANIZED).

ALL DAMAGE TO THE GALVANIZED SURFACES DURING INSTALLATION OF SPLICE PLATE BOLTS/NUTS SHALL BE REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH NYSDOT SPECIFICATION SECTION 719-01.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · BRETT D. REYNOLDS · LICENSED PROFESSIONAL ENGINEER · NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: GIRDER SPLICE DETAILS	DRAWING NUMBER: ST-34

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
M. SEIDEL

FILE NAME = 121481D_sht_02_str_st1_03.dgn
DATE/TIME = 8/15/2025 7:07:34
USER = dhoerner

MOMENT AND SHEAR TABLE			CL BRGS. BEGIN ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL BRGS. PIER	0.1 L2	0.2 L2	0.3 L2	0.4 L2	0.5 L2	0.6 L2	0.7 L2	0.8 L2	0.9 L2	CL BRGS. END ABUT.
GIRDERS G1 & G6	D.L.	MOMENT	0.0	729.4	1217.5	1464.2	1469.4	1233.3	755.8	36.9	-923.4	-2125.1	-3568.1	-2125.1	-923.4	36.9	755.8	1233.3	1469.4	1464.2	1217.5	729.4	0.0
		SHEAR	65.4	46.8	28.3	9.7	-8.9	-27.4	-46.0	-64.6	-83.2	-101.7	-120.3 / 120.3	101.7	83.2	64.6	46.0	27.4	8.9	-9.7	-28.3	-46.8	-65.4
	S.D.L	MOMENT	0.0	196.2	328.8	397.6	402.7	344.1	221.8	35.8	-214.0	-527.5	-904.6	-527.5	-214.0	35.8	221.8	344.1	402.7	397.6	328.8	196.2	0.0
		SHEAR	17.5	12.6	7.7	2.8	-2.1	-7.0	-11.9	-16.8	-21.7	-26.6	-31.5 / 31.5	26.6	21.7	16.8	11.9	7.0	2.1	-2.8	-7.7	-12.6	-17.5
	HL-93 (+)	MOMENT	0.0	1032.7	1754.4	2184.3	2360.6	2299.1	2022.0	1535.2	874.3	323.5	0.0	323.5	874.3	1535.2	2022.0	2299.1	2360.6	2184.3	1754.4	1032.7	0.0
		SHEAR	91.6	76.7	62.9	50.1	38.6	28.4	19.5	12.2	6.2	2.5	0.0 / 108.3	97.7	86.7	75.2	63.5	51.7	40.0	28.6	17.8	12.3	11.9
	HL-93 (-)	MOMENT	0.0	-155.5	-311.0	-466.5	-622.0	-777.5	-933.0	-1088.5	-1154.6	-1806.8	-2790.7	-1806.8	-1154.6	-1088.5	-933.0	-777.5	-622.0	-466.5	-311.0	-155.5	0.0
		SHEAR	-11.9	-12.3	-17.8	-28.6	-40.0	-51.7	-63.5	-75.2	-86.7	-97.7	-108.3 / 0.0	-2.5	-6.2	-12.2	-19.5	-28.4	-38.6	-50.1	-62.9	-76.7	-91.6
GIRDERS G2 TO G5	D.L.	MOMENT	0.0	816.8	1363.3	1639.4	1645.3	1381.0	846.3	41.3	-1033.9	-2379.5	-3995.3	-2379.5	-1033.9	41.3	846.3	1381.0	1645.3	1639.4	1363.2	816.8	0.0
		SHEAR	73.2	52.4	31.6	10.8	-9.9	-30.7	-51.5	-72.3	-93.1	-113.9	-134.7 / 134.7	113.9	93.1	72.3	51.5	30.7	9.9	-10.8	-31.6	-52.4	-73.2
	S.D.L	MOMENT	0.0	196.6	329.4	398.6	404.0	345.7	223.7	38.0	-211.4	-524.5	-901.4	-524.5	-211.4	38.0	223.7	345.7	404.0	398.6	329.4	196.6	0.0
		SHEAR	17.6	12.7	7.8	2.9	-2.0	-6.9	-11.8	-16.7	-21.6	-26.5	-31.4 / 31.4	26.5	21.6	16.7	11.8	6.9	2.0	-2.9	-7.8	-12.7	-17.6
	HL-93 (+)	MOMENT	0.0	956.4	1624.8	2023.0	2186.2	2129.2	1872.6	1421.8	847.0	313.4	0.0	313.4	847.0	1421.8	1872.6	2129.2	2186.2	2023.0	1624.8	956.4	0.0
		SHEAR	111.3	93.2	76.3	60.8	46.8	34.4	23.7	14.8	7.6	3.0	0.0 / 131.5	118.6	105.2	91.3	77.1	62.8	48.6	34.7	21.6	15.0	14.5
	HL-93 (-)	MOMENT	0.0	-144.0	-288.0	-432.0	-576.0	-720.0	-864.0	-1008.1	-1118.5	-1750.3	-2703.4	-1750.3	-1118.5	-1008.1	-864.0	-720.0	-576.0	-432.0	-288.0	-144.0	0.0
		SHEAR	-14.5	-15.0	-21.6	-34.7	-48.6	-62.8	-77.1	-91.3	-105.2	-118.6	-131.5 / 0.0	-3.0	-7.6	-14.8	-23.7	-34.4	-46.8	-60.8	-76.3	-93.2	-111.3

MOMENTS AND SHEARS ARE UNFACTORED AND INCLUDE IMPACT
MOMENTS ARE EXPRESSED AS KIP-FEET
SHEARS ARE EXPRESSED AS KIPS

DESIGN LOAD TABLE			
	GIRDER	G1 & G6	G2 TO G5
	UNIT	LOAD (k/ft)	LOAD (k/ft)
D.L.	SLAB	0.871	1.108
	HAUNCH	0.172	0.073
	GIRDER	0.352	0.352
	S.I.P. FORMS	0.015	0.031
	DIAPHRAGMS	0.018	0.035
	TOTAL	1.428	1.599
S.D.L.	BARRIERS	0.210	0.210
	FENCING	0.004	0.004
	FUTURE W.S.	0.163	0.163
	TOTAL	0.377	0.377

ASSUMED LIVE LOAD = HL-93

DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

FILE NAME = 121810_gdb_02_jsl_mom_01.dgn
DATE/TIME = 12/4/2025 07:24
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

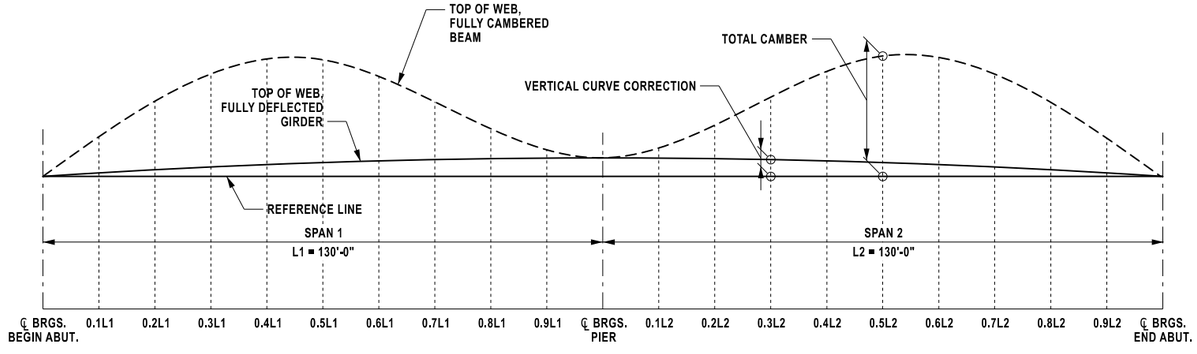
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: MOMENT, SHEAR AND DESIGN LOAD TABLES

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-35

CAMBER TABLE		CL BRGS. BEGIN ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL BRGS. PIER	0.1 L2	0.2 L2	0.3 L2	0.4 L2	0.5 L2	0.6 L2	0.7 L2	0.8 L2	0.9 L2	CL BRGS. END ABUT.
GIRDER G1	I STEEL D.L. (ft.)	0.000	0.020	0.035	0.050	0.050	0.050	0.040	0.025	0.015	0.005	0.000	0.005	0.015	0.025	0.040	0.050	0.050	0.050	0.035	0.020	0.000
	II CONCRETE D.L. (ft.)	0.000	0.060	0.105	0.135	0.150	0.140	0.115	0.075	0.040	0.010	0.000	0.010	0.040	0.075	0.115	0.140	0.150	0.135	0.105	0.060	0.000
	III SUPERIMPOSED D.L. (ft.)	0.000	0.015	0.025	0.035	0.035	0.035	0.030	0.020	0.010	0.005	0.000	0.005	0.010	0.020	0.030	0.035	0.035	0.035	0.025	0.015	0.000
	IV VERTICAL CURVE (ft.)	0.000	0.280	0.535	0.755	0.950	1.115	1.245	1.350	1.425	1.470	1.485	1.470	1.425	1.350	1.245	1.115	0.950	0.755	0.535	0.280	0.000
	TOTAL = I + II + III + IV (ft.)	0.000	0.375	0.700	0.975	1.185	1.340	1.430	1.470	1.490	1.490	1.485	1.490	1.490	1.470	1.430	1.340	1.185	0.975	0.700	0.375	0.000
GIRDER G2	I STEEL D.L. (ft.)	0.000	0.020	0.040	0.050	0.055	0.050	0.040	0.030	0.015	0.005	0.000	0.005	0.015	0.030	0.040	0.050	0.055	0.050	0.040	0.020	0.000
	II CONCRETE D.L. (ft.)	0.000	0.065	0.120	0.160	0.170	0.160	0.130	0.085	0.045	0.015	0.000	0.015	0.045	0.085	0.130	0.160	0.170	0.160	0.120	0.065	0.000
	III SUPERIMPOSED D.L. (ft.)	0.000	0.015	0.025	0.030	0.035	0.030	0.025	0.020	0.010	0.005	0.000	0.005	0.010	0.020	0.025	0.030	0.035	0.030	0.025	0.015	0.000
	IV VERTICAL CURVE (ft.)	0.000	0.280	0.535	0.755	0.950	1.115	1.245	1.350	1.425	1.470	1.485	1.470	1.425	1.350	1.245	1.115	0.950	0.755	0.535	0.280	0.000
	TOTAL = I + II + III + IV (ft.)	0.000	0.380	0.720	0.995	1.210	1.355	1.440	1.485	1.495	1.495	1.485	1.495	1.495	1.485	1.440	1.355	1.210	0.995	0.720	0.380	0.000
GIRDER G3	I STEEL D.L. (ft.)	0.000	0.020	0.040	0.050	0.055	0.050	0.040	0.030	0.015	0.005	0.000	0.005	0.015	0.030	0.040	0.050	0.055	0.050	0.040	0.020	0.000
	II CONCRETE D.L. (ft.)	0.000	0.065	0.120	0.160	0.170	0.160	0.130	0.085	0.045	0.015	0.000	0.015	0.045	0.085	0.130	0.160	0.170	0.160	0.120	0.065	0.000
	III SUPERIMPOSED D.L. (ft.)	0.000	0.015	0.025	0.030	0.035	0.030	0.025	0.020	0.010	0.005	0.000	0.005	0.010	0.020	0.025	0.030	0.035	0.030	0.025	0.015	0.000
	IV VERTICAL CURVE (ft.)	0.000	0.280	0.535	0.755	0.950	1.115	1.245	1.350	1.425	1.470	1.485	1.470	1.425	1.350	1.245	1.115	0.950	0.755	0.535	0.280	0.000
	TOTAL = I + II + III + IV (ft.)	0.000	0.380	0.720	0.995	1.210	1.355	1.440	1.485	1.495	1.495	1.485	1.495	1.495	1.485	1.440	1.355	1.210	0.995	0.720	0.380	0.000
GIRDER G4	I STEEL D.L. (ft.)	0.000	0.020	0.040	0.050	0.055	0.050	0.040	0.030	0.015	0.005	0.000	0.005	0.015	0.030	0.040	0.050	0.055	0.050	0.040	0.020	0.000
	II CONCRETE D.L. (ft.)	0.000	0.065	0.120	0.160	0.170	0.160	0.130	0.085	0.045	0.015	0.000	0.015	0.045	0.085	0.130	0.160	0.170	0.160	0.120	0.065	0.000
	III SUPERIMPOSED D.L. (ft.)	0.000	0.015	0.025	0.030	0.035	0.030	0.025	0.020	0.010	0.005	0.000	0.005	0.010	0.020	0.025	0.030	0.035	0.030	0.025	0.015	0.000
	IV VERTICAL CURVE (ft.)	0.000	0.280	0.535	0.755	0.950	1.115	1.245	1.350	1.425	1.470	1.485	1.470	1.425	1.350	1.245	1.115	0.950	0.755	0.535	0.280	0.000
	TOTAL = I + II + III + IV (ft.)	0.000	0.380	0.720	0.995	1.210	1.355	1.440	1.485	1.495	1.495	1.485	1.495	1.495	1.485	1.440	1.355	1.210	0.995	0.720	0.380	0.000
GIRDER G5	I STEEL D.L. (ft.)	0.000	0.020	0.040	0.050	0.055	0.050	0.040	0.030	0.015	0.005	0.000	0.005	0.015	0.030	0.040	0.050	0.055	0.050	0.040	0.020	0.000
	II CONCRETE D.L. (ft.)	0.000	0.065	0.120	0.160	0.170	0.160	0.130	0.085	0.045	0.015	0.000	0.015	0.045	0.085	0.130	0.160	0.170	0.160	0.120	0.065	0.000
	III SUPERIMPOSED D.L. (ft.)	0.000	0.015	0.025	0.030	0.035	0.030	0.025	0.020	0.010	0.005	0.000	0.005	0.010	0.020	0.025	0.030	0.035	0.030	0.025	0.015	0.000
	IV VERTICAL CURVE (ft.)	0.000	0.280	0.535	0.755	0.950	1.115	1.245	1.350	1.425	1.470	1.485	1.470	1.425	1.350	1.245	1.115	0.950	0.755	0.535	0.280	0.000
	TOTAL = I + II + III + IV (ft.)	0.000	0.380	0.720	0.995	1.210	1.355	1.440	1.485	1.495	1.495	1.485	1.495	1.495	1.485	1.440	1.355	1.210	0.995	0.720	0.380	0.000
GIRDER G6	I STEEL D.L. (ft.)	0.000	0.020	0.035	0.050	0.050	0.050	0.040	0.025	0.015	0.005	0.000	0.005	0.015	0.025	0.040	0.050	0.050	0.050	0.035	0.020	0.000
	II CONCRETE D.L. (ft.)	0.000	0.060	0.105	0.135	0.150	0.140	0.115	0.075	0.040	0.010	0.000	0.010	0.040	0.075	0.115	0.140	0.150	0.135	0.105	0.060	0.000
	III SUPERIMPOSED D.L. (ft.)	0.000	0.015	0.025	0.035	0.035	0.035	0.030	0.020	0.010	0.005	0.000	0.005	0.010	0.020	0.030	0.035	0.035	0.035	0.025	0.015	0.000
	IV VERTICAL CURVE (ft.)	0.000	0.280	0.535	0.755	0.950	1.115	1.245	1.350	1.425	1.470	1.485	1.470	1.425	1.350	1.245	1.115	0.950	0.755	0.535	0.280	0.000
	TOTAL = I + II + III + IV (ft.)	0.000	0.375	0.700	0.975	1.185	1.340	1.430	1.470	1.490	1.490	1.485	1.490	1.490	1.470	1.430	1.340	1.185	0.975	0.700	0.375	0.000



SCHEMATIC CAMBER DIAGRAM
NOT TO SCALE

DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

FILE NAME = 021-4610_cpb_02_tbl_cam_01.dgn
DATE/TIME = 15-AUG-2025 07:34
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

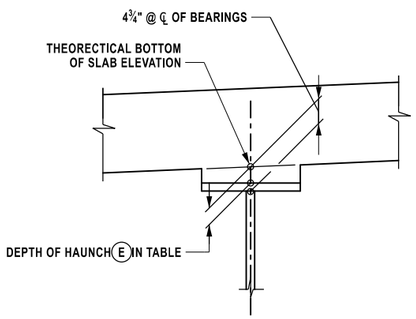
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: CAMBER TABLE

CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-36

HAUNCH TABLE		CL BRGS. BEGIN ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	CL BRGS. PIER	0.1 L2	0.2 L2	0.3 L2	0.4 L2	0.5 L2	0.6 L2	0.7 L2	0.8 L2	0.9 L2	CL BRGS. END ABUT.
GIRDER G1	A REQ'D BOTTOM OF SLAB ELEVATION	577.80	578.16	578.49	578.79	579.06	579.30	579.51	579.69	579.85	579.97	580.06	580.13	580.16	580.16	580.14	580.08	580.00	579.88	579.74	579.56	579.36
	B TOP OF STEEL EL. (FIELD MEASURED)																					
	C = A - B																					
	D CONCRETE + S.D.L. DEFLECTION	0.00	0.08	0.13	0.17	0.19	0.18	0.15	0.10	0.05	0.02	0.00	0.02	0.05	0.10	0.15	0.18	0.19	0.17	0.13	0.08	0.00
	E DEPTH OF HAUNCH REQ'D = C + D (ft.)																					
GIRDER G2	A REQ'D BOTTOM OF SLAB ELEVATION	577.98	578.34	578.67	578.98	579.25	579.49	579.70	579.88	580.03	580.16	580.25	580.31	580.35	580.35	580.32	580.27	580.18	580.07	579.92	579.75	579.55
	B TOP OF STEEL EL. (FIELD MEASURED)																					
	C = A - B																					
	D CONCRETE + S.D.L. DEFLECTION	0.00	0.08	0.15	0.19	0.21	0.19	0.16	0.11	0.06	0.02	0.00	0.02	0.06	0.11	0.16	0.19	0.21	0.19	0.15	0.08	0.00
	E DEPTH OF HAUNCH REQ'D = C + D (ft.)																					
GIRDER G3	A REQ'D BOTTOM OF SLAB ELEVATION	578.17	578.53	578.86	579.16	579.43	579.67	579.89	580.07	580.22	580.34	580.44	580.50	580.53	580.54	580.51	580.46	580.37	580.26	580.11	579.94	579.73
	B TOP OF STEEL EL. (FIELD MEASURED)																					
	C = A - B																					
	D CONCRETE + S.D.L. DEFLECTION	0.00	0.08	0.15	0.19	0.21	0.19	0.16	0.11	0.06	0.02	0.00	0.02	0.06	0.11	0.16	0.19	0.21	0.19	0.15	0.08	0.00
	E DEPTH OF HAUNCH REQ'D = C + D (ft.)																					
GIRDER G4	A REQ'D BOTTOM OF SLAB ELEVATION	578.17	578.53	578.86	579.16	579.43	579.67	579.89	580.07	580.22	580.34	580.44	580.50	580.53	580.54	580.51	580.46	580.37	580.26	580.11	579.94	579.73
	B TOP OF STEEL EL. (FIELD MEASURED)																					
	C = A - B																					
	D CONCRETE + S.D.L. DEFLECTION	0.00	0.08	0.15	0.19	0.21	0.19	0.16	0.11	0.06	0.02	0.00	0.02	0.06	0.11	0.16	0.19	0.21	0.19	0.15	0.08	0.00
	E DEPTH OF HAUNCH REQ'D = C + D (ft.)																					
GIRDER G5	A REQ'D BOTTOM OF SLAB ELEVATION	577.98	578.34	578.67	578.98	579.25	579.49	579.70	579.88	580.03	580.16	580.25	580.31	580.35	580.35	580.32	580.27	580.18	580.07	579.92	579.75	579.55
	B TOP OF STEEL EL. (FIELD MEASURED)																					
	C = A - B																					
	D CONCRETE + S.D.L. DEFLECTION	0.00	0.08	0.15	0.19	0.21	0.19	0.16	0.11	0.06	0.02	0.00	0.02	0.06	0.11	0.16	0.19	0.21	0.19	0.15	0.08	0.00
	E DEPTH OF HAUNCH REQ'D = C + D (ft.)																					
GIRDER G6	A REQ'D BOTTOM OF SLAB ELEVATION	577.80	578.16	578.49	578.79	579.06	579.30	579.51	579.69	579.85	579.97	580.06	580.13	580.16	580.16	580.14	580.08	580.00	579.88	579.74	579.56	579.36
	B TOP OF STEEL EL. (FIELD MEASURED)																					
	C = A - B																					
	D CONCRETE + S.D.L. DEFLECTION	0.00	0.08	0.13	0.17	0.19	0.18	0.15	0.10	0.05	0.02	0.00	0.02	0.05	0.10	0.15	0.18	0.19	0.17	0.13	0.08	0.00
	E DEPTH OF HAUNCH REQ'D = C + D (ft.)																					

NOTE:
THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE COMPLETED HAUNCH TABLE PRIOR TO SETTING THE BOTTOM FORMWORK OF THE DECK.



GIRDER HAUNCH DETAIL
NOT TO SCALE

DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS

FILE NAME = 121480_gah_02_tbl_com_02.dgn
DATE/TIME = 8/15/2025 7:35
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

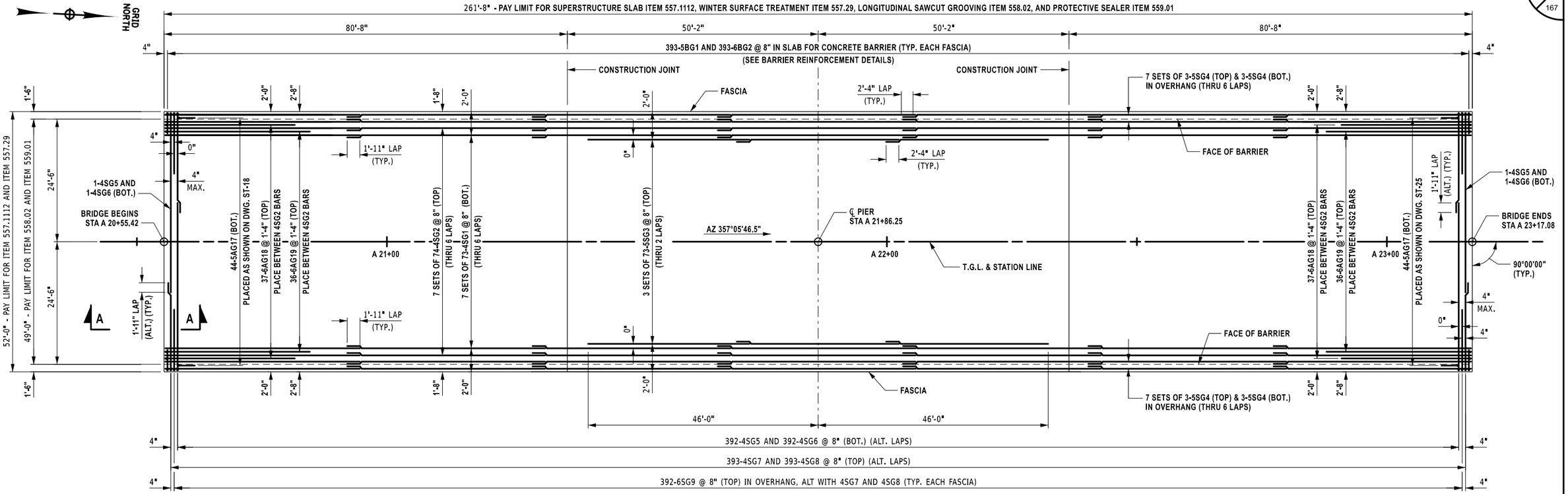
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

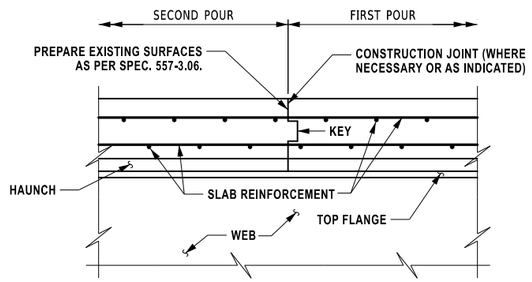
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: HAUNCH TABLE

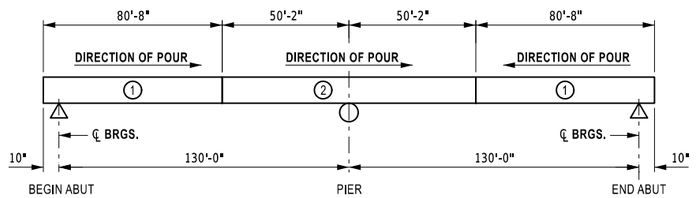
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-37



SUPERSTRUCTURE SLAB REINFORCEMENT PLAN



TRANSVERSE CONSTRUCTION JOINT IN SLAB



SLAB PLACEMENT SEQUENCE

SUPERSTRUCTURE SLAB TABLE

PLACEMENT	CONCRETE SLAB ITEM 557.1112 (SY)	WINTER SURFACE TREATMENT ITEM 557.29 (SY)	SAWCUT GROOVING ITEM 558.02 (SY)	PROTECTIVE SEALER ITEM 559.01 (SF)
1	932	932	879	7905
2	580	580	546	4916

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SECTION A-A ST-27
   B. BARRIER REINFORCEMENT DETAILS ST-42
   C. CORRUGATED METAL FORMING ST-52
2. (#) - INDICATES CONCRETE PLACEMENT NUMBER
3. TOP AND BOTTOM REINFORCING MATS SHALL BE STAGGERED IN BOTH DIRECTIONS SO THAT BARS ARE NOT DIRECTLY OVER EACH OTHER.
4. COVER ABOVE TOP LONGITUDINAL BARS SHALL BE 3". COVER BELOW BOTTOM TRANSVERSE BARS SHALL BE 1½".

DECK PLACEMENT NOTES

1. CONCRETE PLACEMENT AND FINISHING OPERATIONS SHALL BE PERFORMED AS RAPIDLY AS POSSIBLE. THE ENGINEER MAY DIRECT THE CONTRACTOR TO STOP PLACEMENT OPERATIONS AT ANY TIME IF, IN THE ENGINEER'S OPINION, CONCRETE PLACED DURING THE PLACEMENT HAS STARTED TO SET, OR IS ABOUT TO SET, AND FURTHER PLACEMENT OF CONCRETE WILL CAUSE DEFLECTION CRACKING.
2. LONGITUDINAL CONSTRUCTION JOINTS WILL NOT BE PERMITTED.
3. CONSTRUCTION JOINTS SHALL BE PLACED PARALLEL TO THE SKEW ANGLE. DECK CONCRETE SHALL BE PLACED SO THAT THE LEADING EDGE IS PARALLEL TO THE SKEW. FINISHING MACHINE(S) SHALL BE OPERATED AS CLOSE TO THE SKEW ANGLE AS PRACTICABLE. TEXTURING MAY BE DONE LONGITUDINAL, TRANSVERSE OR PARALLEL TO THE ALIGNMENT OF THE FINISHING MACHINE.
4. THE CONTRACTOR SHALL PLACE WET BURLAP CURING BLANKETS ON THE CONCRETE DECK WITHIN 30 MINUTES OF THE CONCRETE BEING DEPOSITED INTO THE FORMS OR 5 MINUTES AFTER FINISHING, WHICHEVER COMES FIRST. THE PLACEMENT OF THE TURF DRAG TEXTURE SHALL NOT INTERFERE WITH THESE REQUIREMENTS.
5. IF THE CONTRACTOR'S DECK PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY THE CONTRACTOR'S OWN DECISION OR BY DIRECTION 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 NO COST TO THE AUTHORITY.
6. ALL AREAS SHOWN ON THE PLANS AS "PLACEMENT 1" SHALL BE PLACED DURING THE INITIAL CONTINUOUS WORK PERIOD. SUBSEQUENT PLACEMENTS (CONTINUOUS PLACEMENTS) WILL NOT BE PERMITTED UNTIL 72 HOURS OF ACCEPTABLE CURING AFTER THE COMPLETION OF THE PREVIOUS PLACEMENT.
7. THERE WILL BE NO EXCEPTIONS MADE TO THE POURING SEQUENCE AS SHOWN ON THE CONTRACT PLANS.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

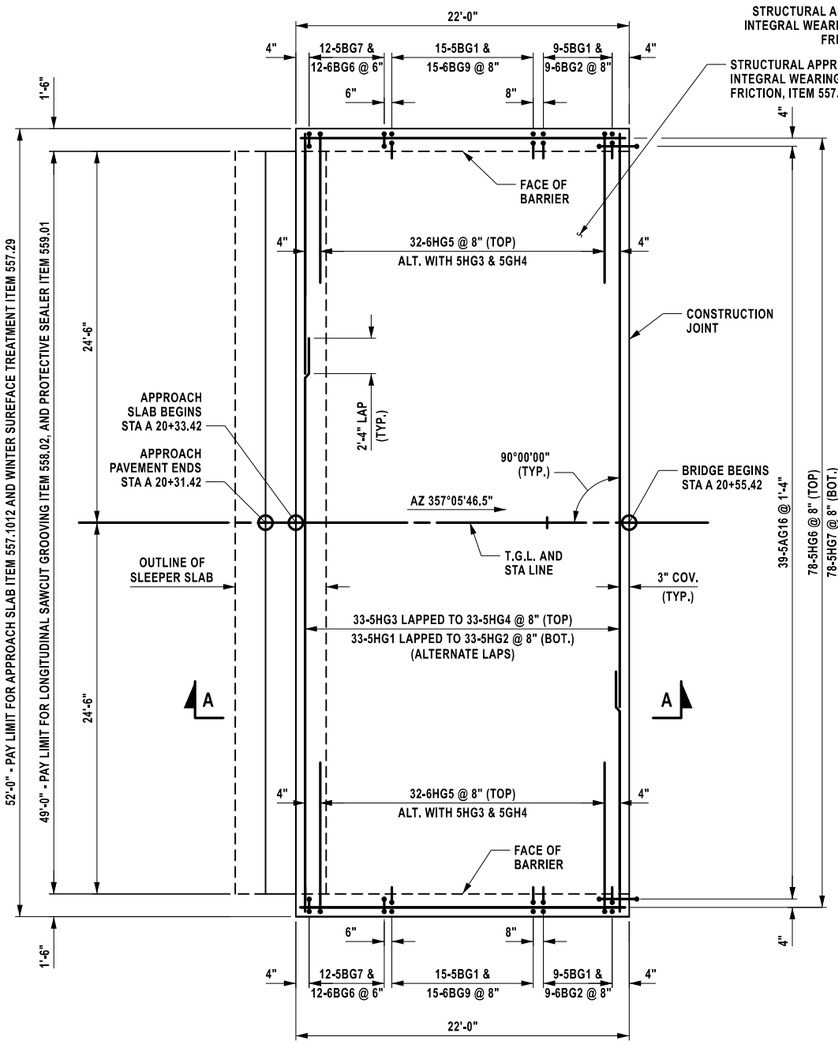
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: SUPERSTRUCTURE SLAB DETAILS

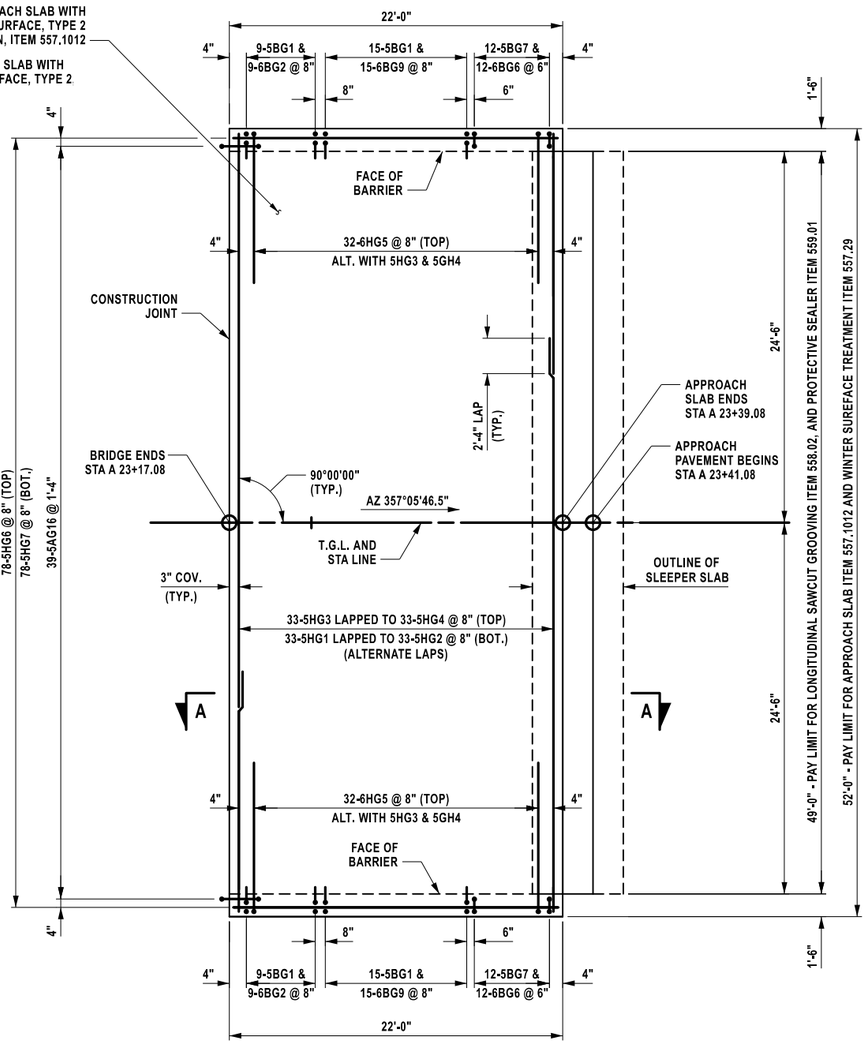
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-38

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: A. MAIER
DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

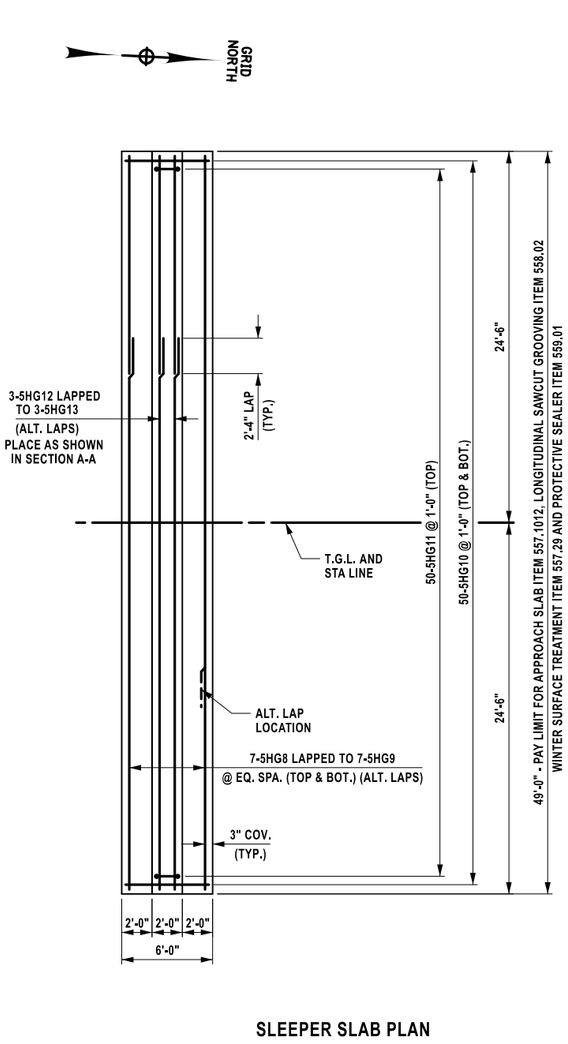
FILE NAME = 121480_sht_02_slb_sup.dgn
TIME = 12:14:40 - 2025 07:35
DATE
USER = dhoerner



BEGIN APPROACH SLAB PLAN



END APPROACH SLAB PLAN



SLEEPER SLAB PLAN

APPROACH SLAB TABLE

PLACEMENT	CONCRETE SLAB ITEM 557.1012 (SY)	WINTER SURFACE TREATMENT ITEM 557.29 (SY)	LONGITUDINAL SAWCUT GROOVING ITEM 558.02 (SY)	PROTECTIVE SEALER ITEM 559.01 (SF)
BEGIN SLEEPER SLAB	33	11	11	98
BEGIN APPROACH SLAB	128	128	120	1078
END SLEEPER SLAB	33	11	11	98
END APPROACH SLAB	128	128	120	1078

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SECTION A-A ST-40
   B. CONSTRUCTION JOINT AT BRIDGE BEGINS/ENDS ST-27
2. ALL REINFORCEMENT SHALL HAVE 3" COVER UNLESS OTHERWISE NOTED.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER LIC. NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: APPROACH SLAB DETAILS (SHEET 1 OF 2)

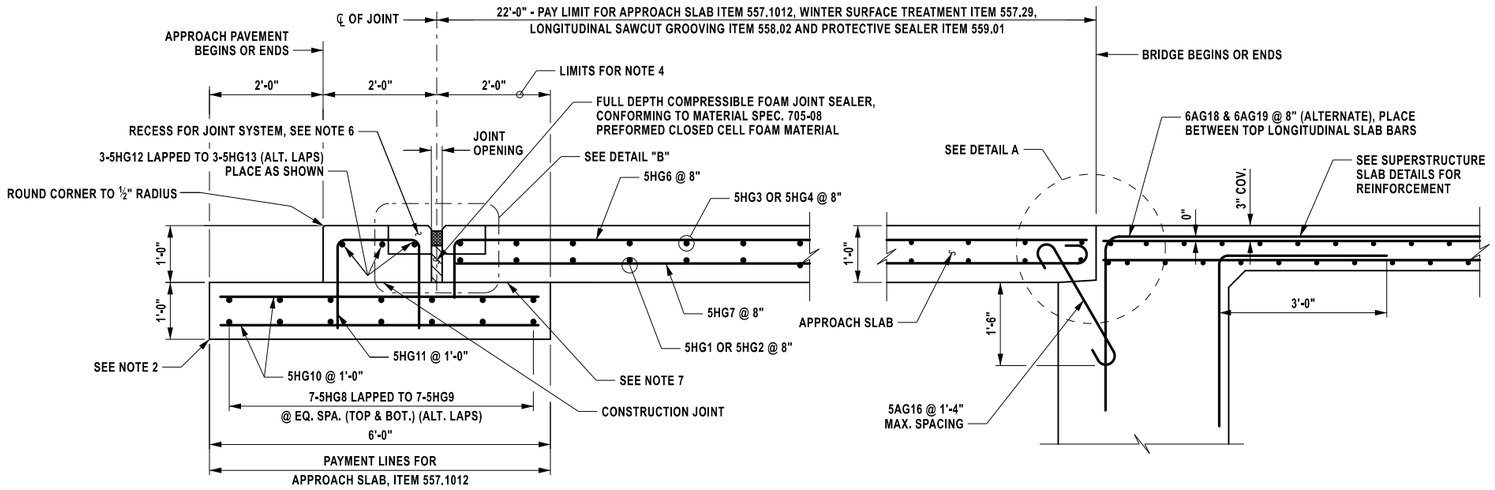
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-39

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

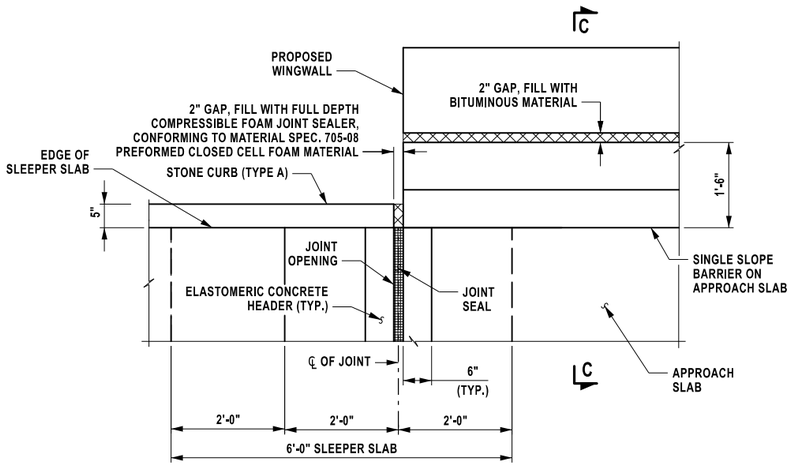
FILE NAME = 021481D_sht_02_abt_apr.dgn
DATE/TIME = 12/14/2023 07:35
USER = dhoerner



SECTION A-A

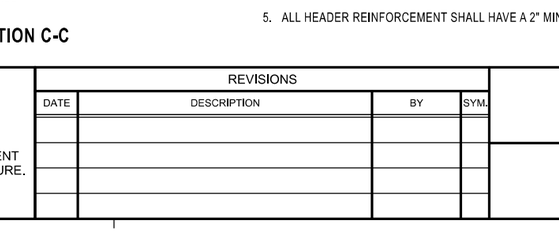
EXPANSION JOINT OPENING TABLE	
SUPERSTRUCTURE TEMPERATURE (°F)	JOINT OPENING (IN.)
30	2 5/8
35	2 1/2
40	2 3/8
45	2 1/4
50	2 1/4
55	2 1/8
60	2
65	2
70	1 7/8
75	1 3/4
80	1 5/8
85	1 5/8
90	1 1/2
95	1 3/8
100	1 1/4
105	1 1/4
110	1 1/8

NOTES:
MIN. OPENING (IN.) = 1.125
MAX. OPENING/REG. MIN. SEAL WIDTH (IN.) = 3.500
TOTAL MOVEMENT (IN.) = 2.375

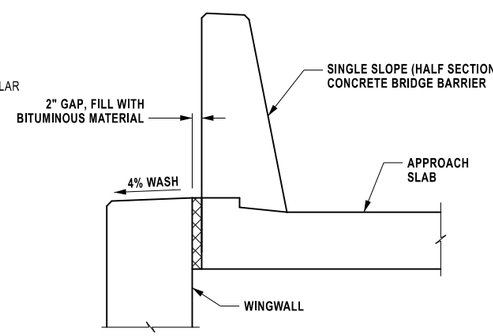


PARTIAL PLAN
ARMORLESS JOINT SLEEPER SLAB

NOTES:
1. APPROACH RAILING NOT SHOWN
2. PLAN SHOWN AT BEGIN LEFT; BEGIN RIGHT, END LEFT AND END RIGHT SIMILAR



DETAIL "B" ARMORLESS BRIDGE JOINT SECTION
(ITEM 567.60)
NOT TO SCALE



SECTION C-C

ARMORLESS JOINT NOTES:

1. THE "JOINT OPENING" SHALL BE DETERMINED AT THE TIME OF PLACEMENT, USING THE TABLE PROVIDED ON THIS DRAWING.
2. THE CONTRACTOR SHALL SUPPLY A JOINT SEAL WITH AN UNCOMPRESSED WIDTH EQUAL TO OR GREATER THAN THE DIMENSION NOTED AS "MIN. SEAL WIDTH" IN THE TABLE ABOVE. THE SEAL SUPPLIED SHALL NOT EXCEED THE MANUFACTURER'S COMPRESSION LIMITS AT THE "MINIMUM OPENING" NOTED IN THE TABLE.
3. THE SUPERSTRUCTURE TEMPERATURE USED TO DETERMINE THE JOINT OPENING SHALL BE THE AVERAGE TEMPERATURE OF THE BOTTOM OF THE GIRDER TOP FLANGES, A MINIMUM OF TWO TEMPERATURE READINGS PER SPAN SHALL BE USED TO CALCULATE THE AVERAGE SUPERSTRUCTURE TEMPERATURE.
4. THE PROVISIONS OF SPECIFICATIONS FOR THE ARMORLESS JOINT ALLOWS THREE JOINT SEAL OPTIONS. ON THIS BRIDGE, ONLY THE FOAM SUPPORTED SILICONE SEAL IS ALLOWED.
5. ALL HEADER REINFORCEMENT SHALL HAVE A 2" MINIMUM COVER.

NOTES:

1. FOR THE FOLLOWING SEE:

	DWG NO.
A. DETAIL A	ST-27
B. ABUTMENT REINFORCEMENT	ST-27
C. SUPERSTRUCTURE SLAB REINFORCEMENT	ST-38
D. LOCATIONS OF SECTION A-A	ST-39

2. EXCAVATION FOR SLEEPER SLABS SHALL BE CAREFULLY MADE AFTER COMPACTED ABUTMENT EMBANKMENT IS IN PLACE. THE SLEEPER SLABS SHALL BE FOUNDED ON UNDISTURBED COMPACT MATERIAL OR RE-COMPACTED MATERIAL. NO LOOSE BACKFILL SHALL BE ALLOWED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE SLEEPER SLAB FROM TEMPORARY LOADINGS OR ANY CONDITION WHICH COULD CAUSE MOVEMENTS OR UNEVEN SETTLEMENT OF THE SLEEPER SLAB.
3. TO PERMIT UNHINDERED LONGITUDINAL MOVEMENT OF SLAB, THE SURFACE OF THE SUBBASE COURSE MUST BE ACCURATELY CONTROLLED TO FOLLOW AND BE PARALLEL TO THE ROADWAY GRADE AND CROSS SLOPE. POLYETHYLENE CURING COVERS (WHITE OPAQUE) IN ACCORDANCE WITH MATERIAL SPECIFICATION SUBSECTION 711-04 SHALL BE PLACED ON THE FINISHED SUBBASE COURSE THE FULL WIDTH OF THE APPROACH SLAB PRIOR TO PLACEMENT OF THE REINFORCEMENT. THE CURING COVERS SHALL BE .004 in. THICK, AND LAPS SHALL BE 2 ft. MINIMUM.
4. TOP OF SLEEPER SLABS SHALL BE STEEL TROWEL FINISHED AND COATED WITH A 0.04 in. NOMINAL THICKNESS OF PERFORMANCE GRADE ASPHALT AS INDICATED IN THE PROPOSAL, OR MATERIAL SPECIFICATION 702-3101. THE TOP OF THE SLEEPER SLABS SHALL FOLLOW THE CROSS SLOPE AND GRADE OF ROADWAY. COST TO BE INCLUDED IN THE UNIT PRICE FOR THE APPROACH SLAB UNIT.
5. TOP SURFACES OF STRUCTURAL SLABS, APPROACH SLABS AND EXPOSED TOP SURFACES OF SLEEPER SLABS SHALL BE GROOVED UNDER THE SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE ITEM. LIMITS SHALL GO TO 4" FROM EDGES OF BARRIERS.
6. PAYMENT FOR THE ELASTOMERIC CONCRETE HEADERS SHALL BE INCLUDED IN THE ITEM FOR THE JOINT SYSTEM.
7. COMPRESSED SYNTHETIC SHEET GASKET (TREATED BOTH SIDES), MATERIAL SPECIFICATION 728-06, TWO 0.06 in. THICK SHEETS. PRICE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.
8. ALL APPROACH SLAB AND SLEEPER SLAB REINFORCEMENT SHALL HAVE 3" COVER UNLESS OTHERWISE NOTED.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER No. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

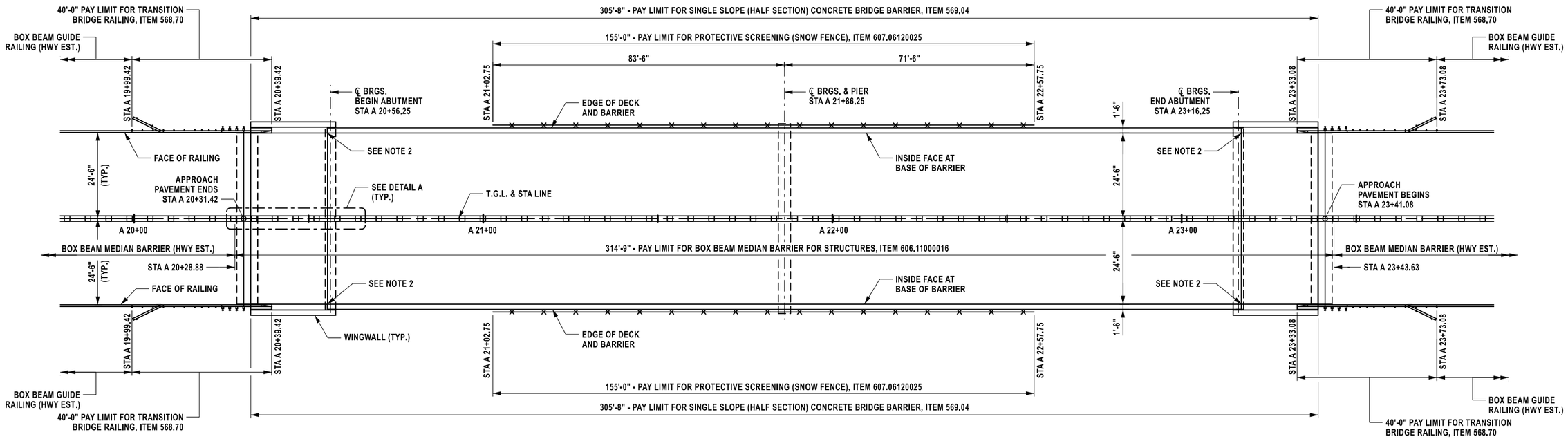
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

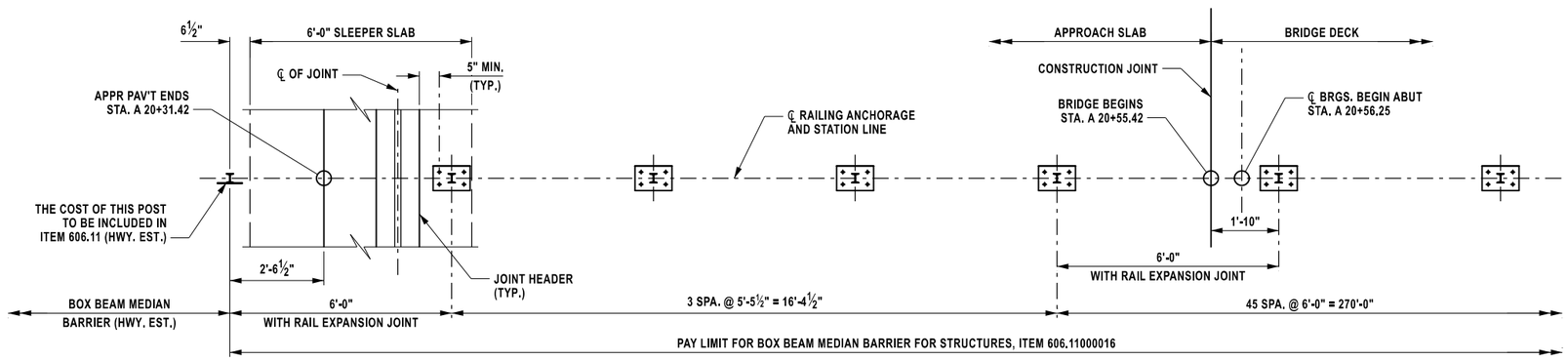
TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: APPROACH SLAB DETAILS (SHEET 2 OF 2)
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-40

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: A. MAIER
DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL
M. SEIDEL

FILE NAME = 121481D_202_sht_opr_dtl_01.dgn
DATE/TIME = 08/14/2025 07:39
USER = dhoerner



BARRIER LAYOUT PLAN



DETAIL A
BEGIN APPROACH SHOWN,
END APPROACH OPPOSITE HAND

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   - A. MEDIAN BARRIER DETAILS ST-44
   - B. BARRIER AND TRANSISTION RAIL DETAILS ST-45
   - C. PROTECTIVE SCREENING DETAILS ST-51
2. PROVIDE 1" JOINT IN BARRIER, FILL WITH PREMOULDED RESILIENT JOINT FILLER CONFORMING TO SPECIFICATION SECTION 705-07.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

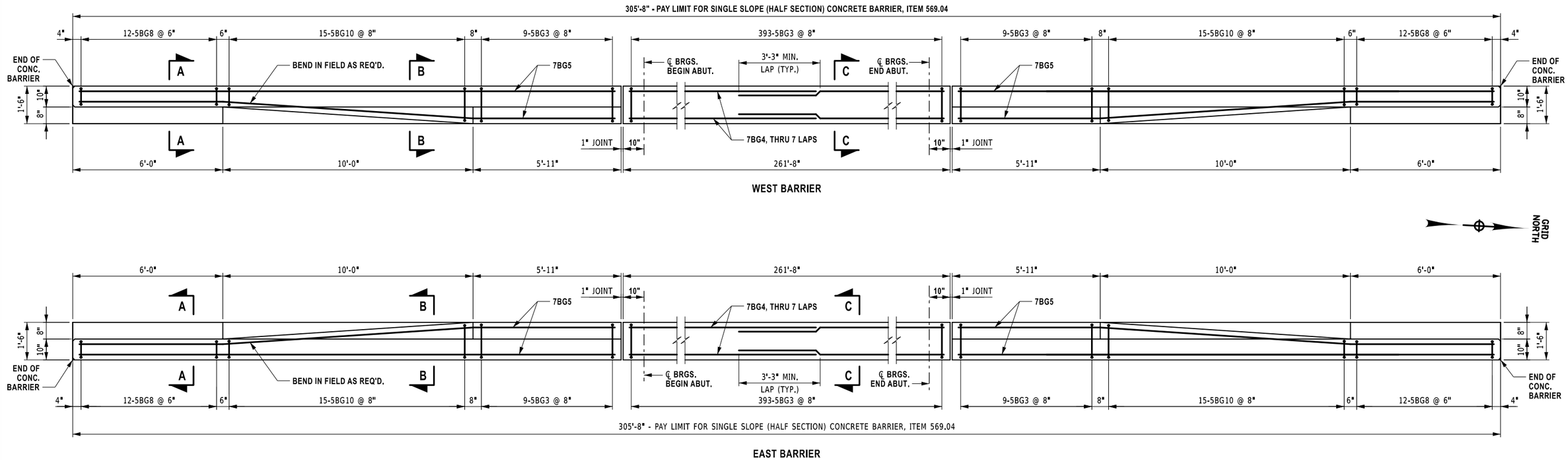
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: BARRIER LAYOUT PLAN

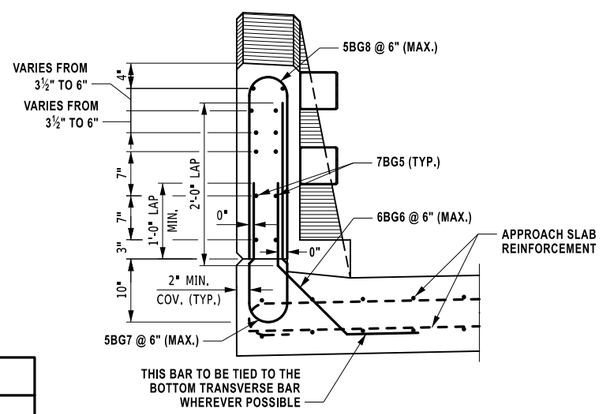
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-41

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: D. HOERNER
DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

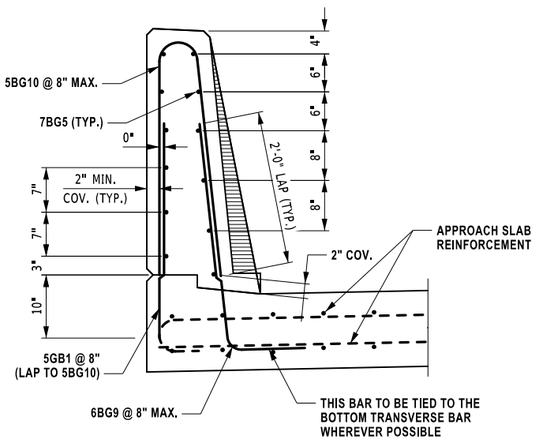
FILE NAME = 121481D_sht_02_rdy.dgn
DATE/TIME = 8/15/2025 7:03
USER = dhoerner



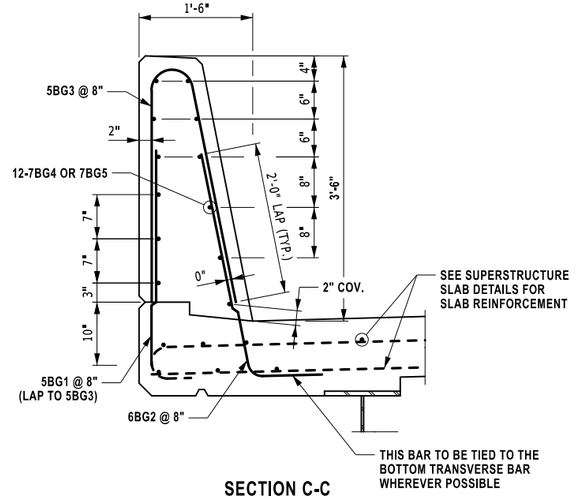
SINGLE SLOPE (HALF SECTION) BARRIER REINFORCEMENT PLAN



SECTION A-A



SECTION B-B



SECTION C-C

NOTE:
DECK SLAB SECTION SHOWN,
APPROACH SLAB SECTION SIMILAR

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SUPERSTRUCTURE SLAB REINFORCEMENT ST-38
   B. APPROACH SLAB REINFORCEMENT ST-39
2. ALL COVER SHALL BE 2" UNLESS OTHERWISE NOTED.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

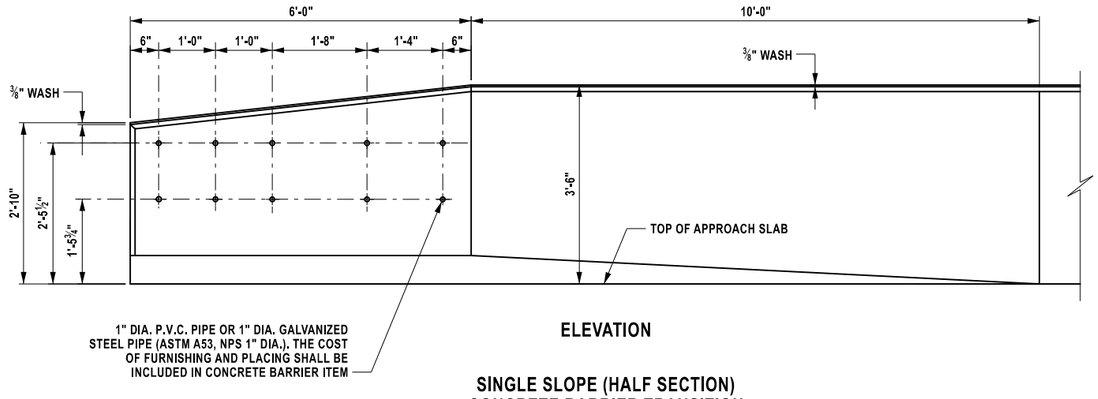
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: BARRIER REINFORCEMENT DETAILS	DRAWING NUMBER: ST-42

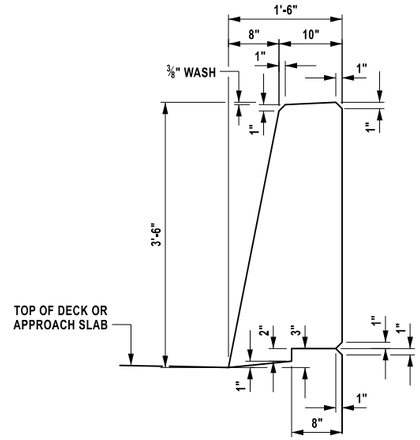
DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

FILE NAME = t21481l0_sht_02_tbl_brr_01.dgn
DATE/TIME = 8/15/2025 7:07:55
USER = dhoerner

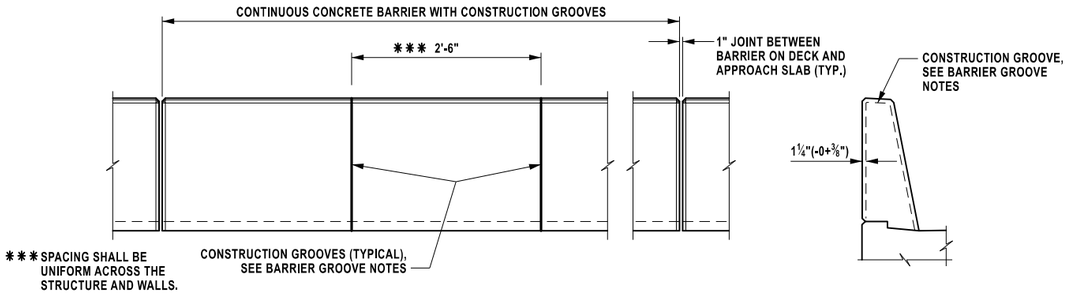


ELEVATION

SINGLE SLOPE (HALF SECTION)
CONCRETE BARRIER TRANSITION



TYPICAL BARRIER SECTION



ELEVATION **SECTION**

CONCRETE BARRIER GROOVE SPACING

BARRIER GROOVE NOTES

1. CONSTRUCTION GROOVES SHALL BE MADE BY:

   - FORMING FOR CAST-IN-PLACE CONSTRUCTED FORMS.

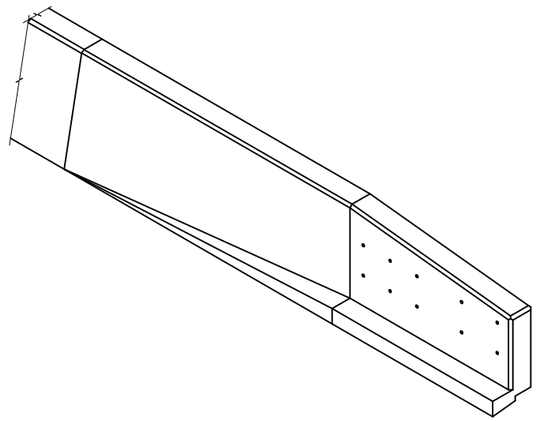
   - SAWING THE SET CONCRETE WITHIN 8 HOURS OF PLACEMENT FOR CAST-IN-PLACE SLIP FORMED.

   - CUTTING THE PLASTIC CONCRETE.

   A COMBINATION OF THESE METHODS MAY BE EMPLOYED.

2. THE DEPTH OF THE GROOVES SHALL BE $1\frac{1}{4}"(-0+\frac{3}{8}")$.
   FORMED GROOVES SHALL MAKE 60° ANGLE WITH THE SURFACE.
   CUT GROOVES SHALL BE FINISHED WITH SHALLOW ($\frac{3}{4}"\pm\frac{1}{4}"$) CONSTANT DEPTH 45° CHAMFERS AT THE SURFACE.

3. THE LONGITUDINAL REINFORCING BARS FOR THE CONCRETE BARRIERS SHALL BE CONTINUOUS BETWEEN BRIDGE EXPANSION JOINTS. WHERE SPLICES ARE REQUIRED. THE LENGTH OF THE LAP SHALL BE SUFFICIENT TO DEVELOP EACH BAR.



ISOMETRIC OF CONCRETE SINGLE SLOPE (HALF SECTION)
CONCRETE BRIDGE BARRIER END SECTION

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. BARRIER END SECTION ST-45

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

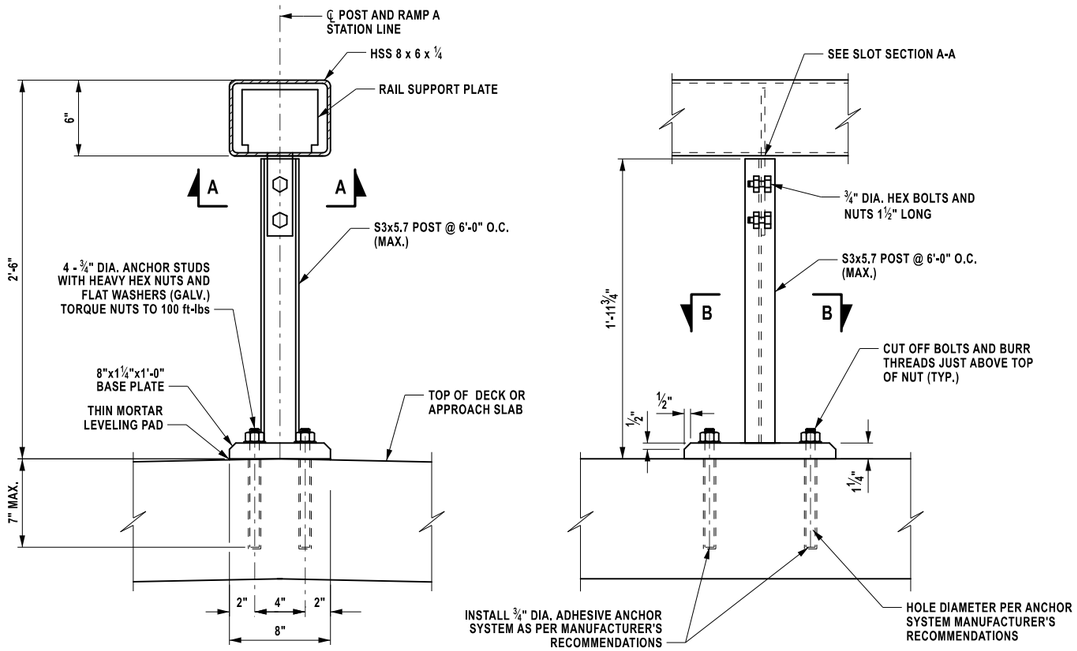
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

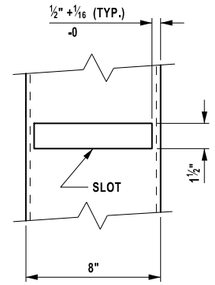
TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	SINGLE SLOPE CONCRETE BARRIER DETAILS
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ST-43

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: D. HOERNER
DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL
M. SEIDEL

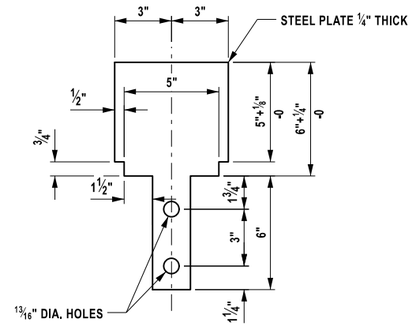
FILE NAME = 021481D_sgb_02_dtl_br_02.dgn
TIME = 12:44:40 - 2025 07:35
DATE/TIME = 08/15/2025 07:35
USER = dhoerner



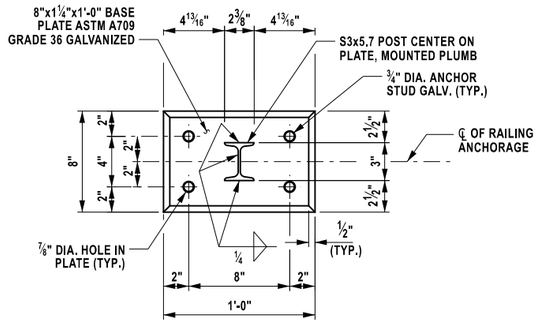
BOX BEAM MEDIAN BARRIER ANCHORAGE DETAIL



SECTION A-A



RAIL SUPPORT PLATE



SECTION B-B

NOTES:

1. MINIMUM LENGTH OF RAIL TUBE TO BE 18'-0"
2. SEE DWG. ST-41 FOR RAILING PLAN.
3. SEE ITEM 606.11000016 SPECIFICATIONS FOR BOX BEAM MEDIAN BARRIER MATERIAL REQUIREMENTS AND CONSTRUCTION DETAILS.
4. SEE STANDARD SHEET 606-05 - BOX BEAM MEDIAN BARRIER FOR TYPICAL RAIL SPLICE AND RAIL EXPANSION JOINT DETAILS.
5. ANCHORS STUDS SHALL CONFORM WITH SPECIFICATION SECTION 710-23.
6. DRILL AND GROUT ANCHOR STUDS INTO DECK AND APPROACH SLAB IN ACCORDANCE WITH THE REQUIREMENTS IN SPECIFICATION SECTION 586, COST TO BE INCLUDED IN ITEM 606.11000016.
7. THE EMBEDMENT DEPTH SHOWN IN THE PLANS FOR DRILLING AND GROUTING IS FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S ENGINEER SHALL DETERMINE THE DEVELOPMENT LENGTH REQUIRED TO DEVELOP A FACTORED TENSION RESISTANCE (ØTn) GREATER THAN OR EQUAL TO 9 KIPS PER ANCHOR ROD. THE CALCULATIONS SHALL BE BASED ON THE SIZE OF THE ROD, ACTUAL EDGE DISTANCE TO THE ROD, THE PROXIMITY TO THE OTHER RODS, CONCRETE DESIGN STRENGTH, AND THE GROUT SUPPLIERS' RECOMMENDATIONS. THE CONTRACTOR SHALL SUBMIT THE DESIGN CALCULATIONS AND DETAILS SEALED BY A REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER TO THE ENGINEER FOR APPROVAL.

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

FILE NAME = 021481D_sht_02_dtl_brr_03.dgn
DATE/TIME = 12-AUG-2025 07:55
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER LIC. NO. 084906

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

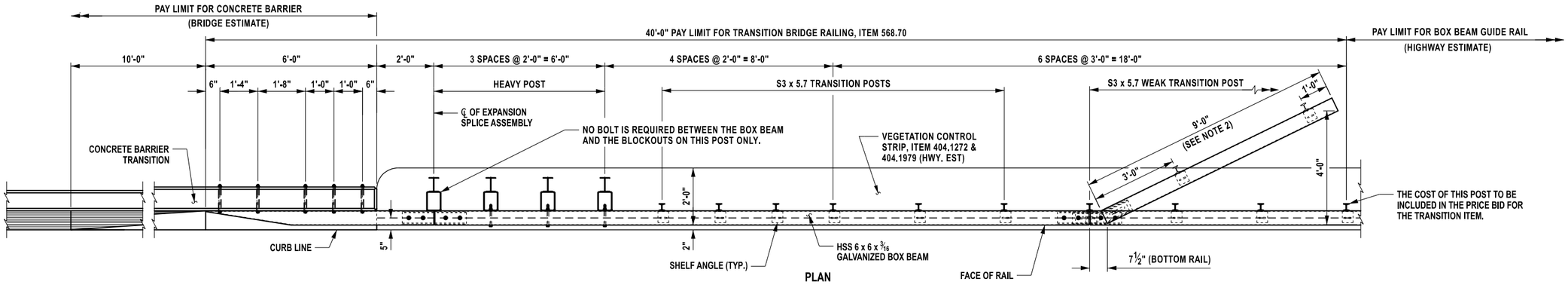
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

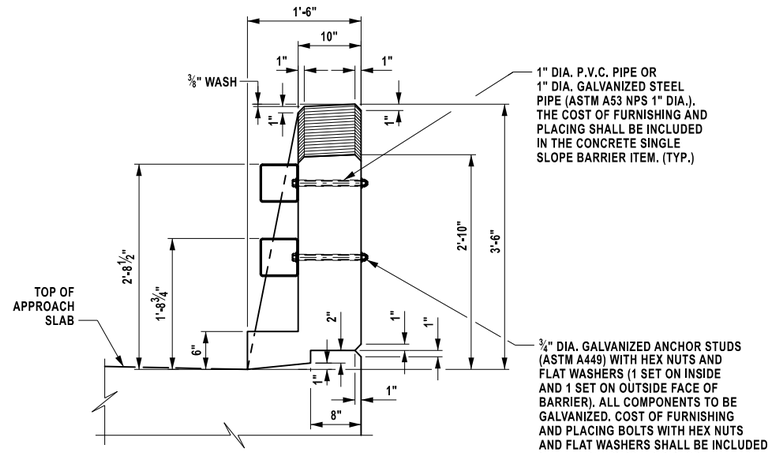
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: MEDIAN BARRIER DETAILS	DRAWING NUMBER: ST-44



ELEVATION

CONCRETE BARRIER TO BOX BEAM GUIDE RAIL TRANSITION



SECTION A-A

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. SINGLE SLOPE CONCRETE BARRIER DETAILS ST-43
   B. APPROACH DRAINAGE AND CURB LAYOUT DETAILS..... ST-49
2. 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.
3. ANY MODIFICATIONS MADE IN THE FIELD THAT DAMAGES GALVANIZATION SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01 OF THE NYS STANDARD SPECIFICATIONS.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS NO. 084906 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

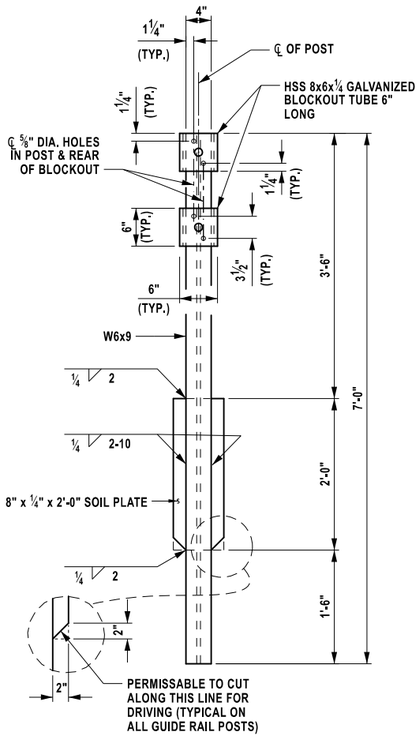
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

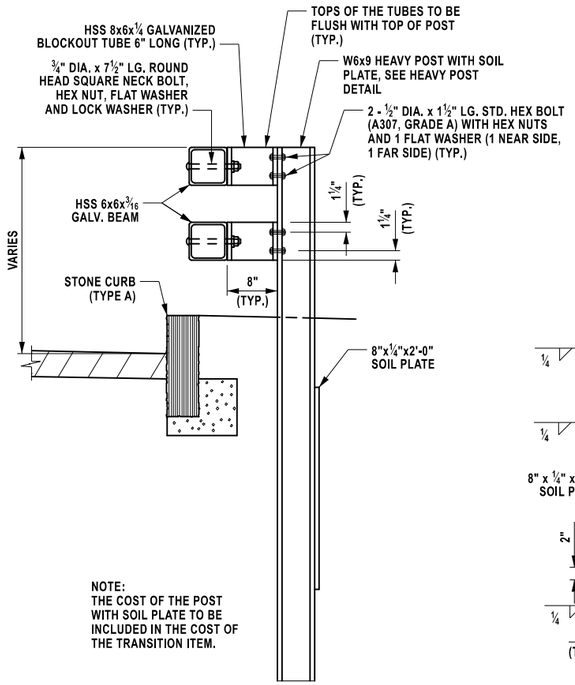
TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: BOX BEAM TRANSITION DETAILS (SHEET 1 OF 4)	DRAWING NUMBER: ST-45

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

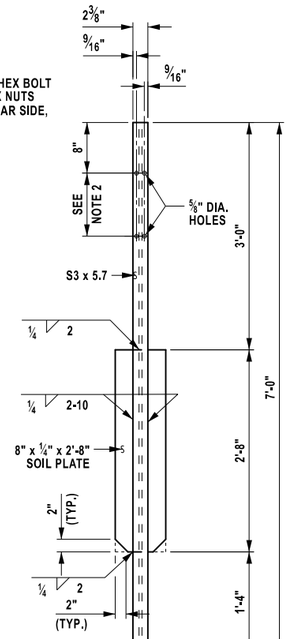
FILE NAME = D:\1610_gds_02_dli_rg_01.dgn
DATE/TIME = 12-AUG-2025 07:55
USER = dhoerner



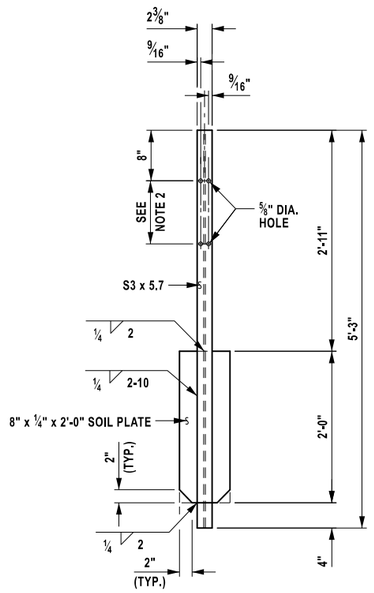
HEAVY POST DETAIL



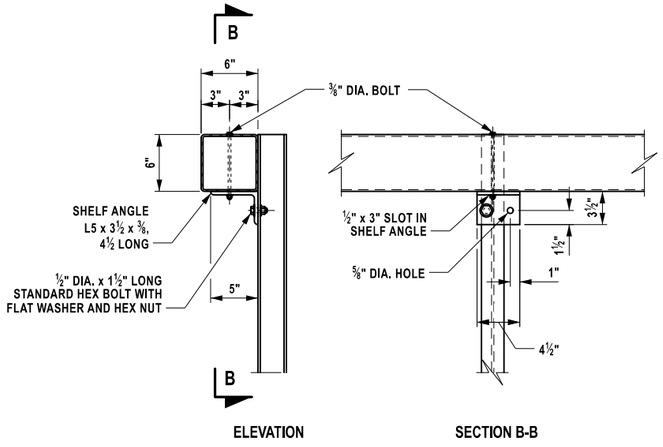
HEAVY POST ELEVATION



TRANSITION POST DETAIL

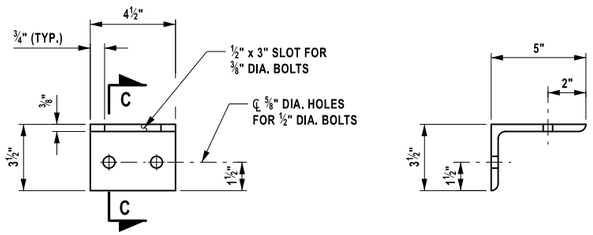


WEAK TRANSITION POST DETAIL



ELEVATION SECTION B-B

TYPICAL RAIL TO WEAK TRANSITION POST CONNECTION



ELEVATION SECTION C-C

SHELF ANGLE DETAILS

NOTES

1. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
2. 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.

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL

FILE NAME = D214810_sht_02_alt_rg_02.dgn
DATE/TIME = 15-AUG-2025 07:55
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

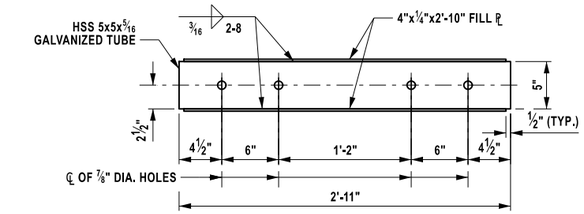
REVISIONS

DATE	DESCRIPTION	BY	SYM.

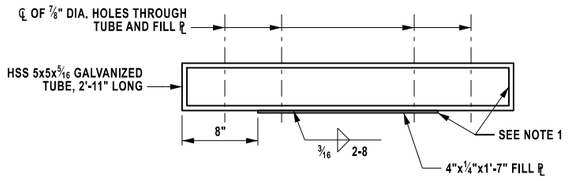
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: BOX BEAM TRANSITION DETAILS (SHEET 2 OF 4)	DRAWING NUMBER: ST-46

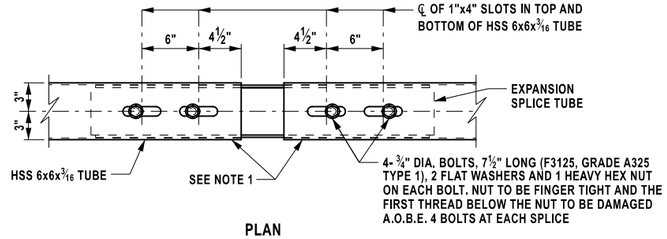


PLAN

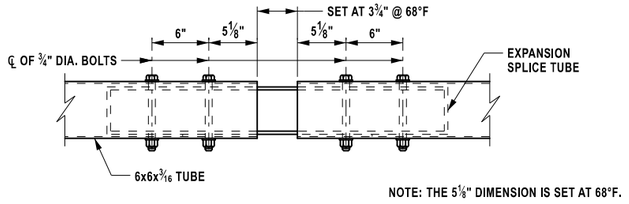


ELEVATION

EXPANSION SPLICE TUBE



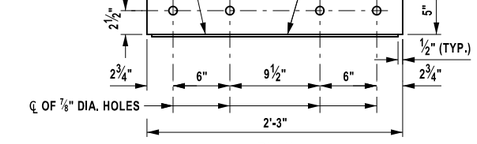
PLAN



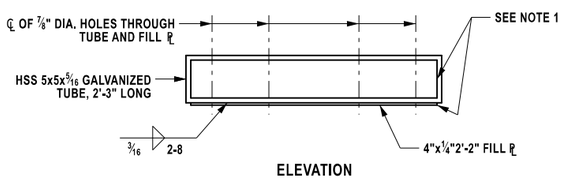
NOTE: THE 5 1/8" DIMENSION IS SET AT 68°F.

ELEVATION

EXPANSION SPLICE ASSEMBLY

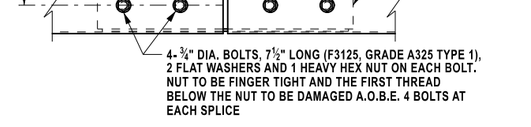


PLAN

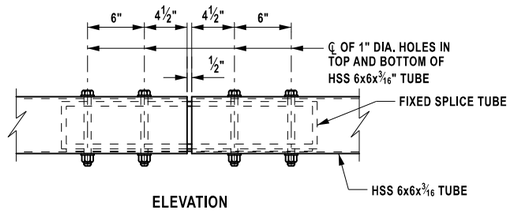


ELEVATION

FIXED SPLICE TUBE



PLAN



ELEVATION

FIXED SPLICE ASSEMBLY

NOTES

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

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS NO. 084906 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

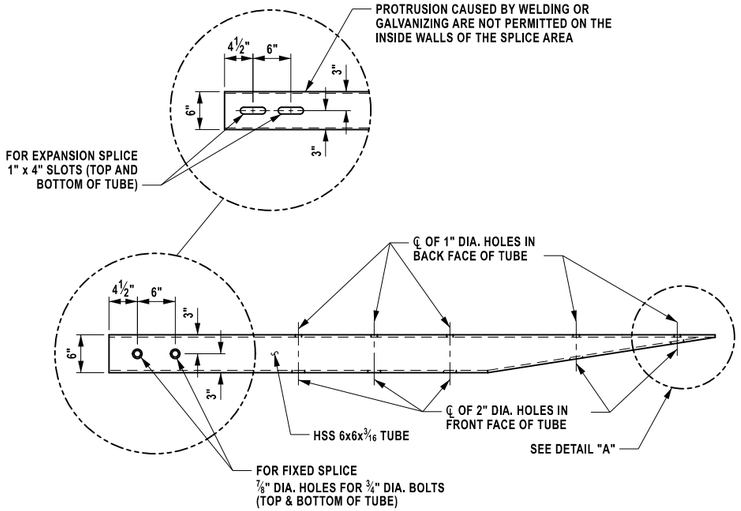
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

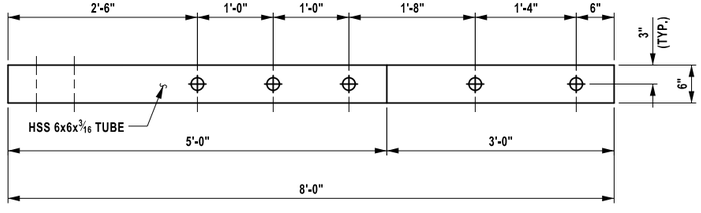
TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	BOX BEAM TRANSITION DETAILS (SHEET 3 OF 4)
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ST-47

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
M. SEIDEL

FILE NAME = 021401C_205_02_BR_rig_03.dgn
DATE/TIME = 12/16/2025 07:55
USER = dhoerner

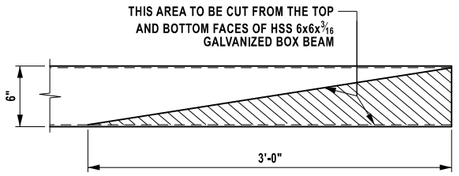


PLAN

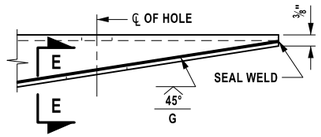


ELEVATION

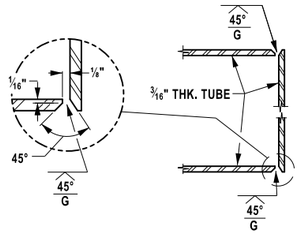
END CONNECTION FOR BOX BEAM GUIDE RAIL



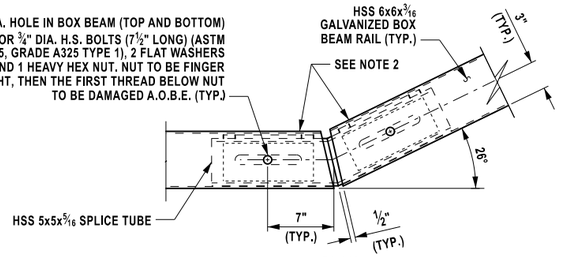
CUT DETAIL - END CONNECTION



DETAIL "A"

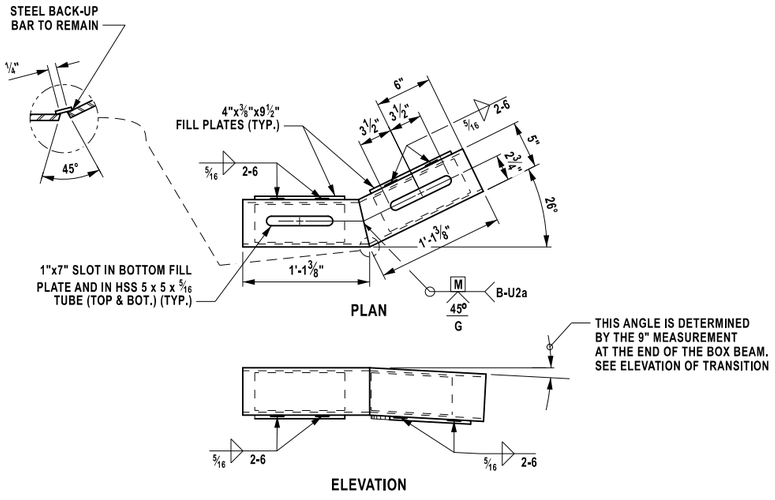


SECTION E-E



PLAN

SPLICE DETAIL AT TURNBACK IN LOWER TRANSITION GUIDE RAIL



PLAN

ELEVATION

SPLICE TUBE DETAILS FOR TURNBACK

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. ELEVATION OF CONCRETE BARRIER TO BOX BEAM TRANSITION ST-45
2. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS NO. 084906 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

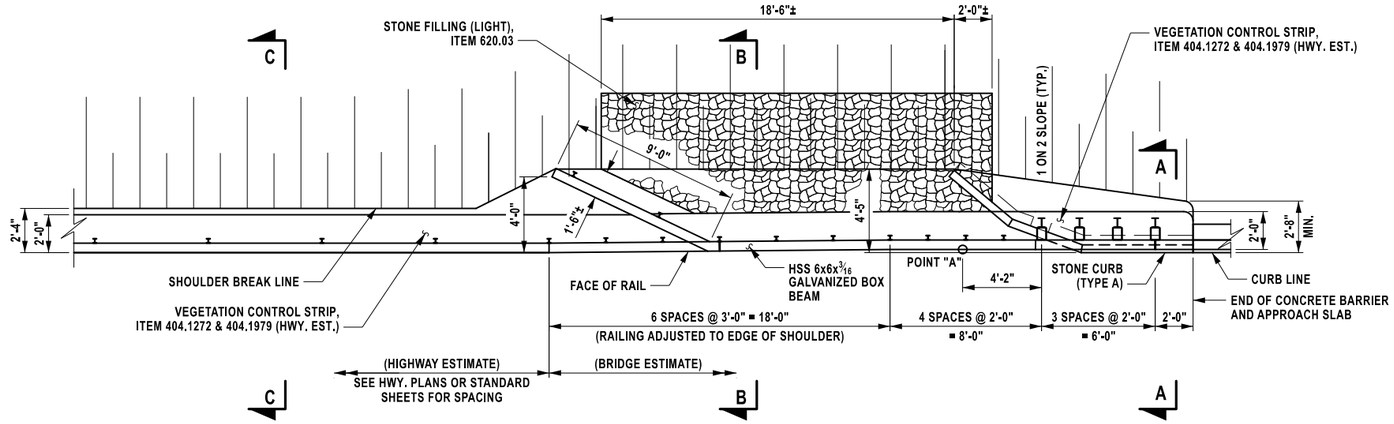
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT	INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT	BUFFALO DIVISION MP 362.44
TITLE OF DRAWING	BOX BEAM TRANSITION DETAILS (SHEET 4 OF 4)
CONTRACT NUMBER:	TAB 25-17B
DATE:	08/15/2025
DRAWING NUMBER:	ST-48

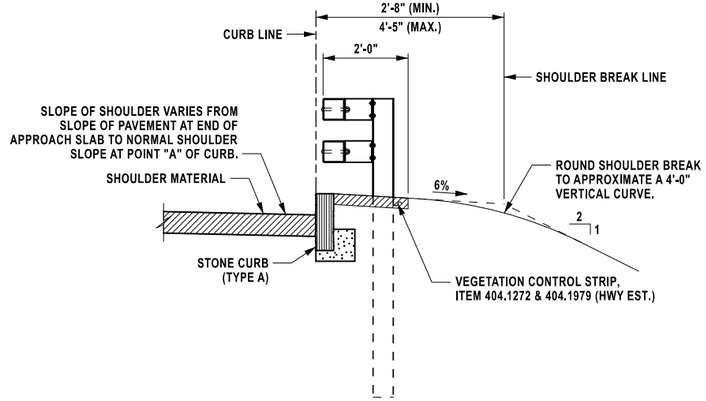
DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

FILE NAME = 021481D_205_02_dtl_rlg_04.dgn
DATE/TIME = 12-AUG-2025 07:58
USER = dhoerner

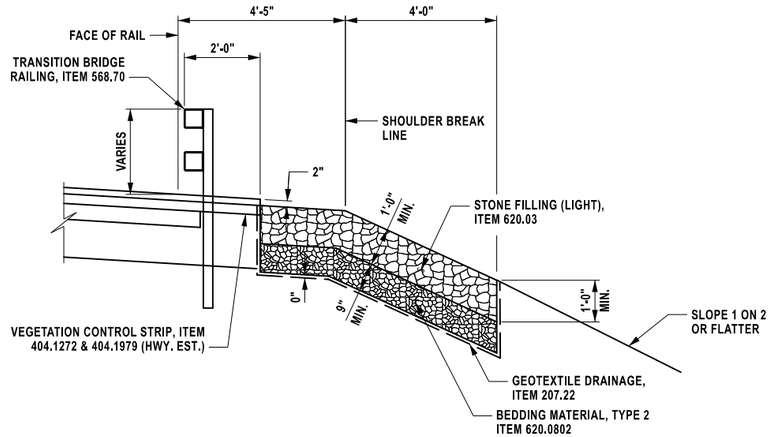


PLAN

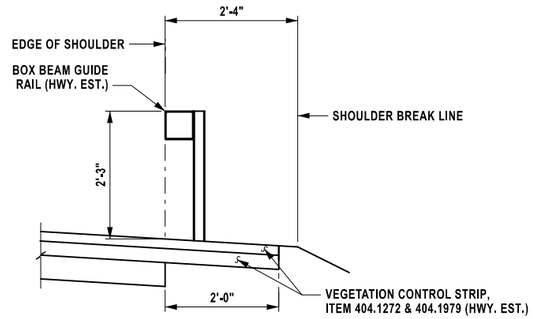
APPROACH SHOULDER WIDTH EQUAL TO STRUCTURE SHOULDER WIDTH



SECTION A-A



SECTION B-B



SECTION C-C

NOTES

1. FOR THE FOLLOWING SEE:

	DWG NO.
A. TRANSITION BRIDGE RAILING AND BRIDGE BARRIER PLAN	ST-41
B. CURB LAYOUT DETAILS	ST-50
C. STONE CURB (TYPE A)	ST-50

2. FOR DETAILS OF BOX BEAM GUIDE RAIL SEE NYSDOT STANDARD SHEETS.

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: APPROACH DRAINAGE DETAILS (SHEET 1 OF 2)

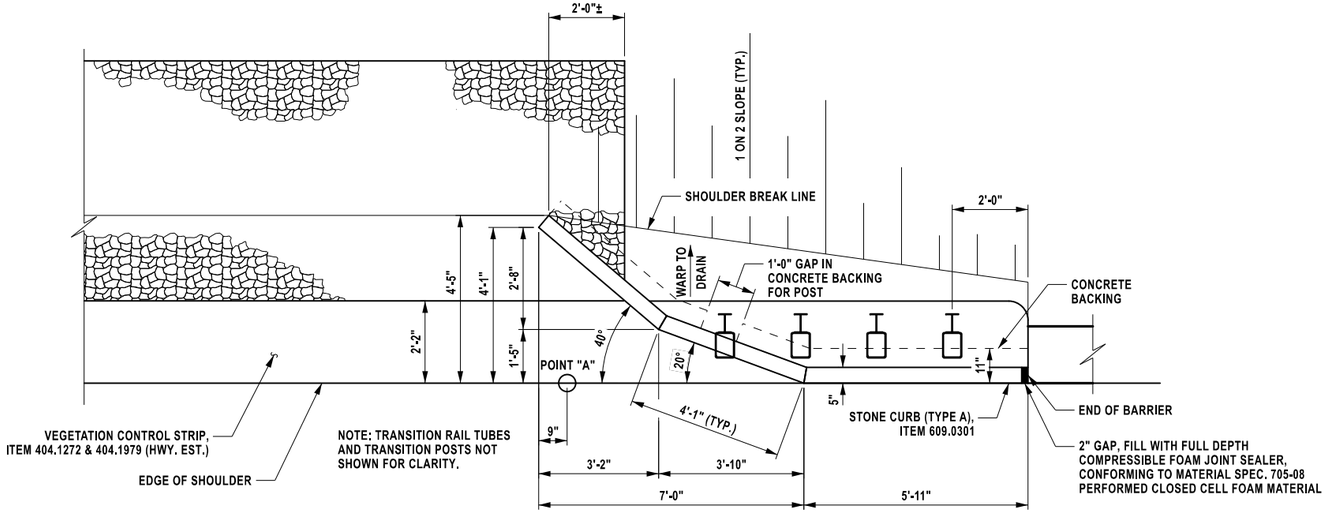
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

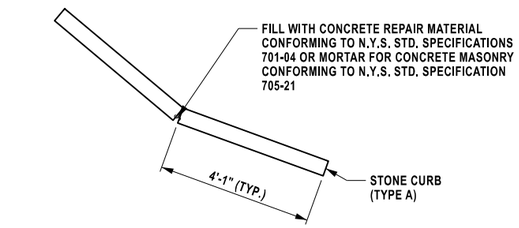
DRAWING NUMBER: ST-49

DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS

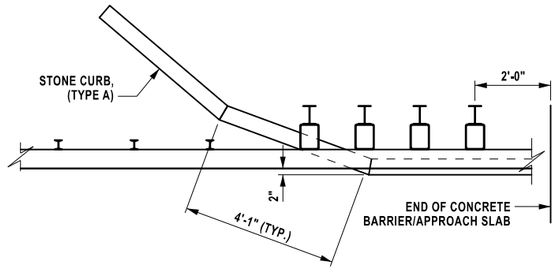
FILE NAME = 121481D_cob_02_sh_-apr_drn_01.dgn
TIME = 12:14:10 - 2025 07:36
DATE/TIME = dhoerner
USER =



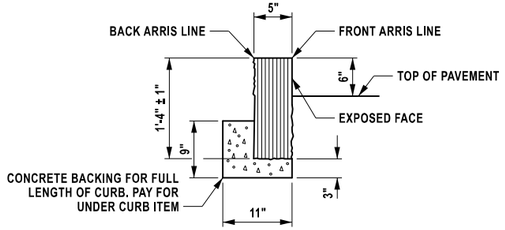
LAYOUT OF DRAINAGE CURBING AND STONE GUTTER
(BEGIN LEFT APPROACH SHOWN)



ALTERNATE CURB JOINT DETAIL



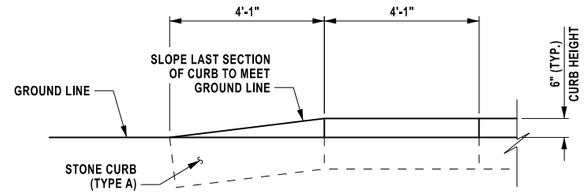
DRAINAGE CURB OFFSET



SAWED OR HAMMERED TOP, QUARRY SPLIT FACE

SECTION OF GRANITE BRIDGE CURB - TYPE A
(ITEM 609.0301)
NOT TO SCALE

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



ELEVATION OF CURB TAPER

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

FILE NAME = 021A810_gds_02_sh_apr_drn_02.dgn
DATE/TIME = 12-AUG-2025 07:56
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · BRETT D. REYNOLDS · LICENSED PROFESSIONAL ENGINEER · NO. 084906

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

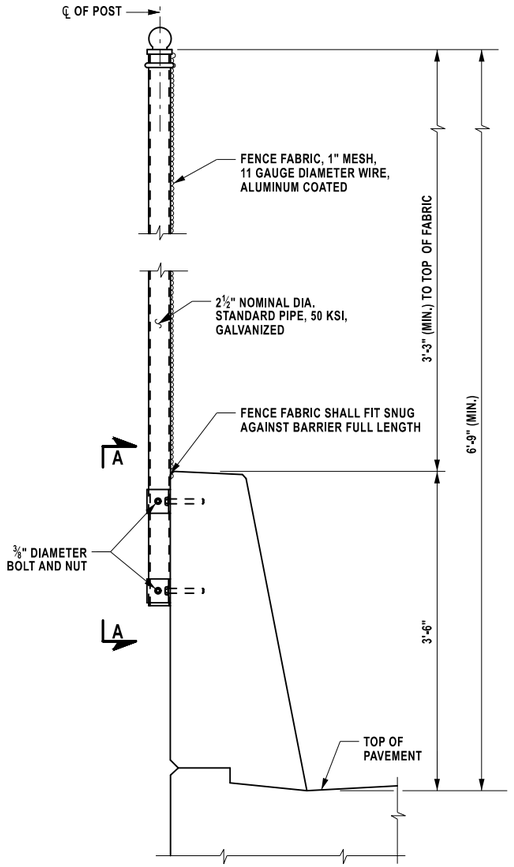
REVISIONS

DATE	DESCRIPTION	BY	SYM.

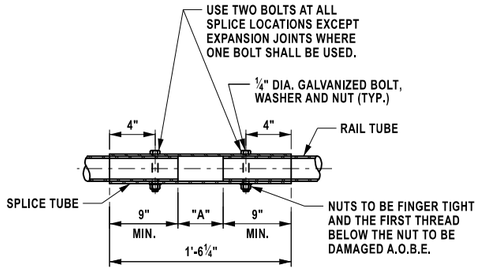
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: APPROACH DRAINAGE DETAILS (SHEET 2 OF 2)	DRAWING NUMBER: ST-50

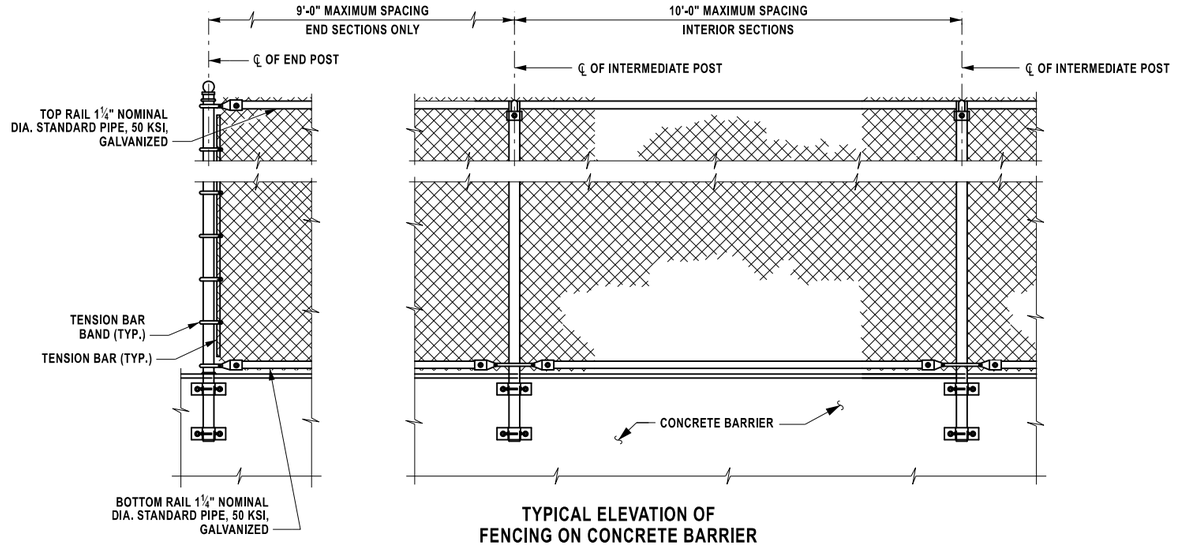


FENCING ON BARRIER
(ITEM 607.06120025)
NOT TO SCALE

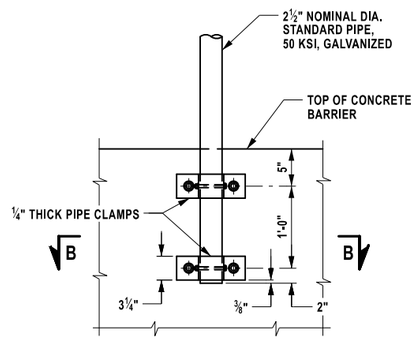


NOTE:
"A" = ¼" EXCEPT FOR EXPANSION JOINT LOCATIONS WHERE THIS DIMENSION SHALL BE SET EQUAL TO THE BRIDGE DECK JOINT OPENING PLUS ¼" (MIN.)

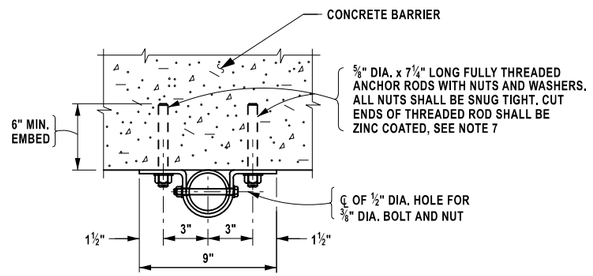
TYPICAL RAIL SPLICE DETAIL
(TOP & BOTTOM RAIL)
NOT TO SCALE



TYPICAL ELEVATION OF
FENCING ON CONCRETE BARRIER
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

NOTES:

1. THE INTERIOR SECTIONS OF SNOW FENCE POSTS SHALL BE PLACED SO THAT THE SPACING OF THE POSTS IS UNIFORM AND DOES NOT EXCEED 10'-0".
2. THE FULLY THREADED ANCHOR RODS FOR THE SNOW FENCE MAY BE DRILLED AND GROUTED INTO THE BARRIER AS SHOWN.
3. DRILLING AND GROUTING OF FULLY THREADED ANCHOR RODS SHALL BE DONE AND PAID FOR IN ACCORDANCE WITH SPECIFICATION 586.03100025 - DRILLING & GROUTING OF BOLTS OR REINFORCING BARS - CHEMICALLY CURING - WITH PULLOUT TESTS. TEST LOAD = 6.0 KIPS.
4. IT IS PERMISSIBLE TO INSTALL SHIM PLATES BEHIND THE VERTICAL FENCE POSTS TO ACHIEVE PLUMB. SHIMS MUST HAVE $^{11}/_{16}$" DIA. HOLES MATCHING THE PIPE CLAMP FOR THE $^{5}/_{8}$" DIA. ANCHOR RODS. SHIMS SHALL BE OF STAINLESS STEEL (ASTM A666-03), THE REQUIRED QUANTITY AND THICKNESS OF SHIMS WILL BE DETERMINED IN THE FIELD.
5. ALL FENCE POSTS SHALL BE VERTICAL.
6. THE SNOW FENCING SHALL BE PAID FOR UNDER ITEM 607.06120025 - PROTECTIVE SCREENING (SNOW FENCE - 6'-9" HEIGHT).
7. 5/8" ANCHOR BOLTS FOR FENCING SHALL BE F1554 GR105. BOLTS SHALL HAVE A MECHANICALLY DEPOSITED ZINC COATING IN ACCORDANCE WITH CLASS 50 OF ASTM B695.
8. 3/8" DIA. BOLTS SHALL BE ASTM A449 GR92 AND HOT DIPPED GALVANIZED IN ACCORDANCE WITH NYSStd. SPEC 719-01 OR MECHANICALLY DEPOSITED ZINC COATED AS DESCRIBED ABOVE.
9. ALL NUTS SHALL BE ASTM A563 HEAVY HEX GRADE DH AND HOT DIPPED GALVANIZED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 719-01 OR MECHANICALLY DEPOSITED ZINC COATED AS DESCRIBED ABOVE.
10. ALL WASHERS SHALL BE ASTM F436 AND HOT DIPPED GALVANIZED IN ACCORDANCE WITH NYSStd. SPECIFICATION SECTION 719-01 OR MECHANICALLY DEPOSITED ZINC COATED AS DESCRIBED ABOVE.

DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

FILE NAME = 121480_sht_02_dtl_1nc.dgn
TIME = 12:14:40
DATE = 08-15-2025 07:56
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

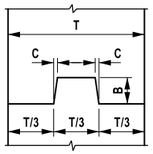
REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

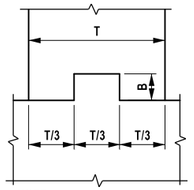
BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: SNOW FENCE	DRAWING NUMBER: ST-51



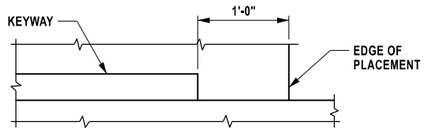
NOTE:
WATERSTOP NOT SHOWN.

VERTICAL



NOTE:
WATERSTOP NOT SHOWN.

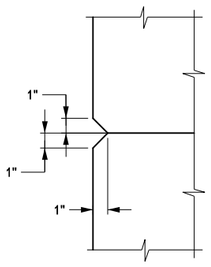
HORIZONTAL



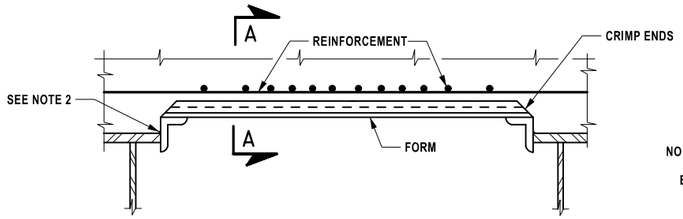
CONSTRUCTION AND CONTRACTION JOINTS		
C	B	T/3
3/16"	1½"	0 TO 6"
3/8"	3½"	6" TO 10"
3/4"	5½"	OVER 10"

EXPANSION JOINTS		
C	B	T/3
3/8"	3½"	0 TO 10"
3/4"	5½"	OVER 10"

KEYWAY DETAILS
NOT TO SCALE



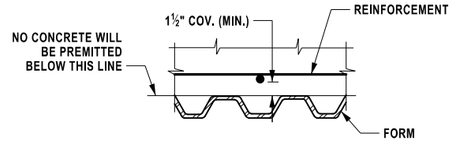
CHAMFER DETAIL



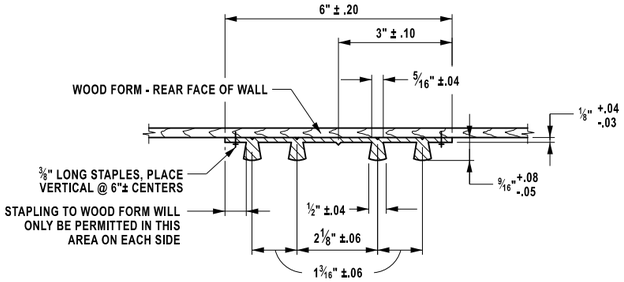
PERMANENT CORRUGATED METAL FORM DETAIL
NOT TO SCALE

FORM UNIT NOTES:

1. THE COST OF THE FORMING SYSTEMS SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SUPERSTRUCTURE SLAB CONCRETE ITEM.
2. THERE SHALL BE NO WELDING TO GALVANIZED OR METALIZED GIRDER SURFACES FOR THE ATTACHMENT OF FORMING DEVICES.
3. THE SUPPORT ANGLES, ZEES, CLIPS, AND OTHER HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH MATERIAL SPECIFICATION 719-01.



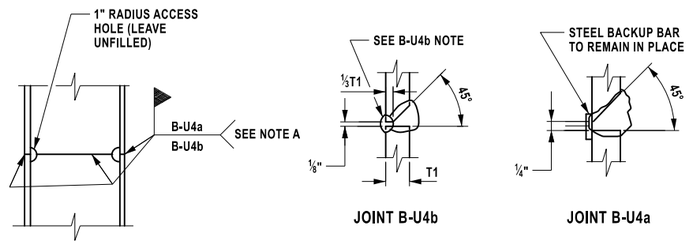
SECTION A-A



TYPE D WATERSTOP
NOT TO SCALE

WATERSTOP NOTES:

1. PVC USED IN WATERSTOPS SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-11.
2. HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.
3. TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.
4. THE COST OF FURNISHING AND PLACING WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE CONCRETE ITEMS.
5. WATERSTOP SHALL BE SHIPPED IN STRAIGHT SECTIONS HAVING A MINIMUM LENGTH OF 10 FEET UNLESS SHORTER LENGTHS ARE REQUIRED.
6. FIELD SPLICES SHOULD BE AVOIDED IF POSSIBLE, HOWEVER, HEAT WELDED BUTT SPLICES WILL BE PERMITTED ON LONG STRAIGHT RUNS (GENERALLY IN EXCESS OF 50 FEET) AT POINTS APPROVED BY ENGINEER.



JOINT B-U4b **JOINT B-U4a**

WELDING NOTES:

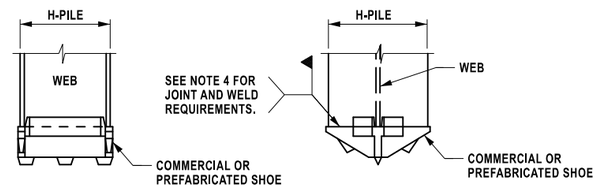
A "WELDING PROCEDURE SPECIFICATION" (WPS) APPROVED BY THE AUTHORITY IS REQUIRED.

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

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

B-U4b: AIR CARBON ARC GOUGE TO SOUND WELD METAL PRIOR TO WELDING THE SECOND SIDE. THE GOUGE SHALL HAVE A ¼" MINIMUM RADIUS AT THE ROOT WITH THE TOP SLOPED BACK AT 45 DEGREES MINIMUM.

SPLICE FOR STEEL H-PILE
(ITEM 551.12)
NOT TO SCALE



NOTES:

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

STEEL H-PILE SHOES
NOT TO SCALE

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER LICENSE NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION MP 362.44

TITLE OF DRAWING
MISCELLANEOUS DETAILS (SHEET 1 OF 2)

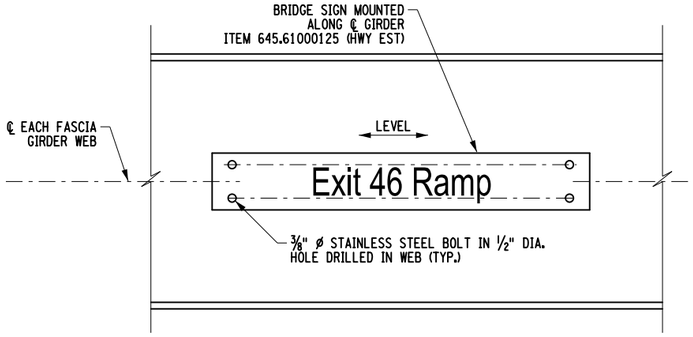
CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

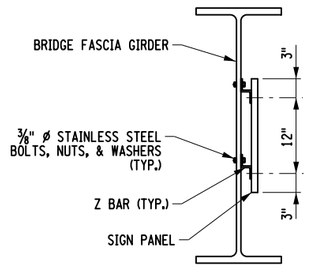
DRAWING NUMBER: ST-52

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

FILE NAME = 0214810_sctp_02_dtl_mis_01.dgn
DATE/TIME = 12-AUG-2025 07:56
USER = dhoerner



BRIDGE IDENTIFICATION
SIGN MOUNTING DETAIL
NOT TO SCALE



MOUNTING DETAIL ON
BRIDGE FASCIA GIRDER
NOT TO SCALE

NOTES

1. FOR THE FOLLOWING SEE: DWG NO.
   A. LOCATION OF BRIDGE MOUNTED SIGNS SPM-02
   B. SIGN PANEL DETAILS SGT-04

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS No. 084906 LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

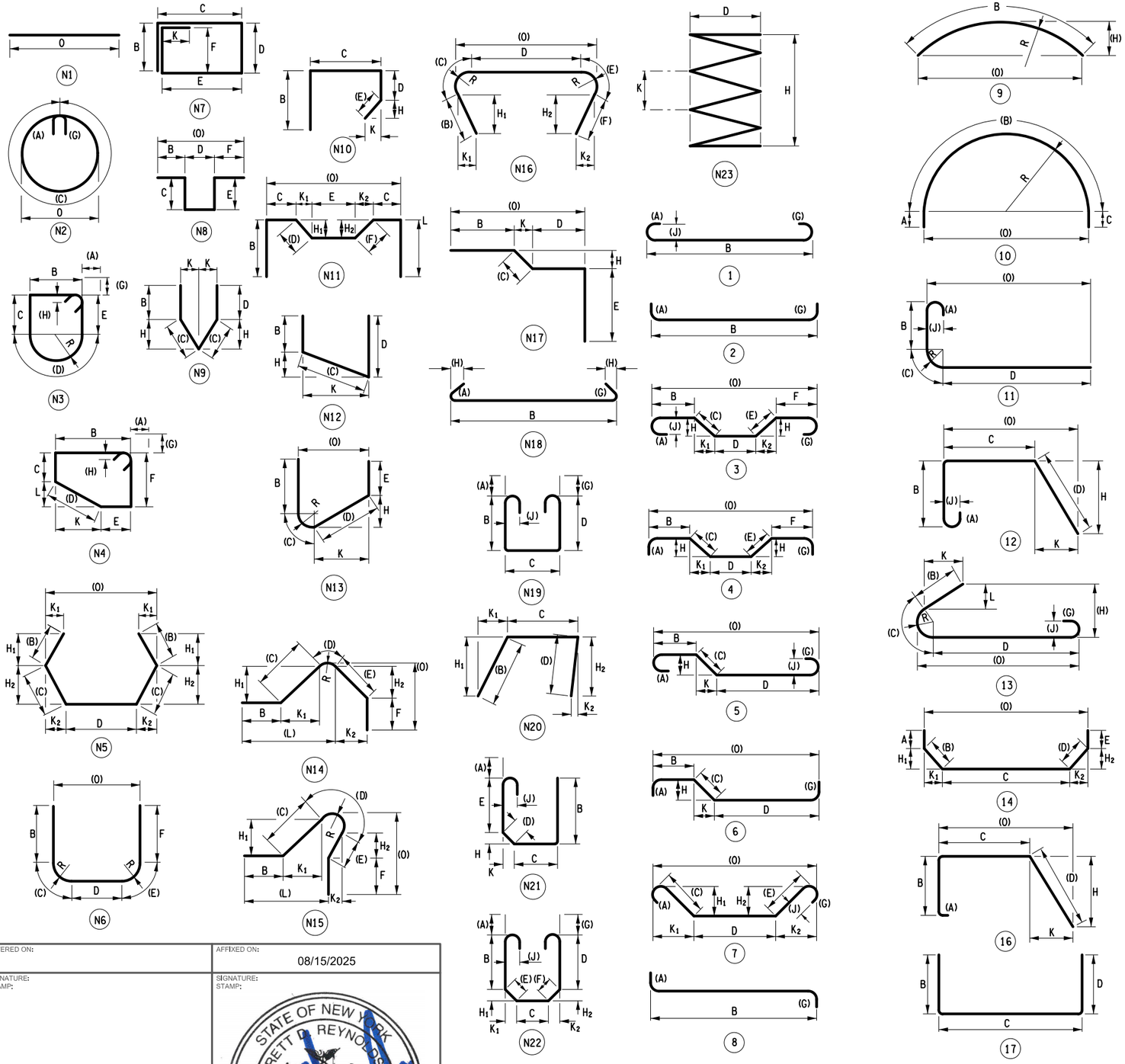
NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44
TITLE OF DRAWING: MISCELLANEOUS DETAILS (SHEET 2 OF 2)
CONTRACT NUMBER: TAB 25-17B
DATE: 08/15/2025
DRAWING NUMBER: ST-53

DESIGN SUPERVISOR: B. REYNOLDS
DESIGNED BY: G. ARADHYA
DRAFTED BY: A. MAIER
CHECKED BY: M. SEIDEL
CHECKED BY: M. SEIDEL

FILE NAME = 021481D_sgb_02_dti_mis_02.dgn
DATE/TIME = 08/14/2025 07:58
USER = dhoerner



( ) - DENOTES COMPUTER GENERATED DIMENSION

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK · BRETT D. REYNOLDS · No. 084906 · LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT	CONTRACT NUMBER: TAB 25-17B
LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44	DATE: 08/15/2025
TITLE OF DRAWING: BAR BENDING DIAGRAM	DRAWING NUMBER: ST-54

DESIGNED BY: G.ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M.SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
M.SEIDEL

FILE NAME = 021A610_02b_02_bb_bar_00.dgn
DATE/TIME = 12-AUG-2025 07:58
USER = dhoerner

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
BEGIN ABUTMENT - LOWER STEM - POUR 1																			
8AG1	208	11-9	17	6526		9-1	2-8	0-0											
8AG2	52	5-6	2	762	1-5	2-8					1-5								
6AG3	18	36-6	N1	987														36-6	
6AG4	18	17-11	N1	484														17-11	
5AG5	2	37-0	N1	77														37-0	
6AG6	2	17-0	N1	35														17-0	
5AG7	104	6-10	17	741		2-1	2-8	2-1											
5AG8	4	9-1	N1	38														9-1	
5AG9	8	4-10	17	40		1-2	2-6	1-2											
SUBTOTAL GALV. BARS				9691	LB THIS POUR														
BEGIN ABUTMENT - UPPER STEM - POUR 6																			
6AG3	9	36-6	N1	493														36-6	
6AG4	9	17-11	N1	242														17-11	
5AG9	8	4-10	17	40		1-2	2-6	1-2											
6AG10	1	18-8	N1	28														18-8	
6AG11	6	27-3	N1	246														27-3	
6AG12	20	8-10	N1	265														8-10	
6AG13	8	2-3	N1	27														2-3	
5AG14	104	7-8	17	832		2-6	2-8	2-6											
5AG15	2	27-0	N1	56														27-0	
5AG16	39	3-8	1	148	0-7	2-6					0-7			0-5					
5AG17	44	6-0	17	275		3-0	3-0	0-0											
6AG18	37	29-0	17	1611		3-0	26-0	0-0											
6AG19	36	32-0	17	1730		3-0	29-0	0-0											
SUBTOTAL GALV. BARS				5995	LB THIS POUR														
BEGIN ABUTMENT WINGWALL 'BAR' - FOOTING - POUR 2																			
5AG20	21	7-0	N1	153														7-0	
6AG21	21	7-0	N1	221														7-0	
5AG22	14	20-2	N1	294														20-2	
5AG23	5	7-2	N1	37														7-2	
5AG24	1	5-6	2	6	0-10	4-8					0-0								
5AG25	21	7-2	2	157	0-10	6-4					0-0								
6AG26	21	7-4	2	231	1-0	6-4					0-0								
SUBTOTAL GALV. BARS				1100	LB THIS POUR														
BEGIN ABUTMENT WINGWALL 'BAR' - LOWER STEM - POUR 4																			
5AG27	8	7-3	N1	60														7-3	
5AG28	4	24-0	N1	100														24-0	
SUBTOTAL GALV. BARS				161	LB THIS POUR														
BEGIN ABUTMENT WINGWALL 'BAR' - UPPER STEM - POUR 7																			
5AG28	12	24-0	N1	300														24-0	
5AG29	2	24-0	N1	50														24-0	

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
5AG30	50	5-7	N1	291														5-7	
SUBTOTAL GALV. BARS				642	LB THIS POUR														
BEGIN ABUTMENT WINGWALL 'BAL' - FOOTING - POUR 3																			
5AG20	21	7-0	N1	153														7-0	
6AG21	21	7-0	N1	221														7-0	
5AG22	14	20-2	N1	294														20-2	
5AG23	5	7-2	N1	37														7-2	
5AG24	1	5-6	2	6	0-10	4-8					0-0								
5AG25	21	7-2	2	157	0-10	6-4					0-0								
6AG26	21	7-4	2	231	1-0	6-4					0-0								
SUBTOTAL GALV. BARS				1100	LB THIS POUR														
BEGIN ABUTMENT WINGWALL 'BAL' - LOWER STEM - POUR 5																			
5AG27	8	7-3	N1	60														7-3	
5AG28	4	24-0	N1	100														24-0	
SUBTOTAL GALV. BARS				161	LB THIS POUR														
BEGIN ABUTMENT WINGWALL 'BAL' - UPPER STEM - POUR 8																			
5AG28	12	24-0	N1	300														24-0	
5AG29	2	24-0	N1	50														24-0	
5AG30	50	5-7	N1	291														5-7	
SUBTOTAL GALV. BARS				642	LB THIS POUR														
PIER FOOTING - POUR 1																			
8PG1	110	11-6	N1	3377														11-6	
5PG2	56	11-6	N1	672														11-6	
6PG3	26	40-0	N1	1562														40-0	
6PG4	26	18-1	N1	706														18-1	
5PG5	370	3-2	T9	1215	0-6½	2-1					0-6¼	0-3¾							
7PG6	58	13-7	2	1610	1-3	12-4					0-0								
7PG7	50	17-7	2	1797	1-3	16-4					0-0								
4PG8	200	3-10	T9	515	0-5	3-0					0-5	0-3¼							
SUBTOTAL GALV. BARS				11453	LB THIS POUR														
PIER STEM - POUR 2																			
4PG8	775	3-10	T9	1994	0-5	3-0					0-5	0-3¼							
7PG9	58	12-7	N1	1492														12-7	
7PG10	50	8-7	N1	877														8-7	
6PG11	38	35-0	N1	1997														35-0	
6PG12	38	16-1	N1	918														16-1	
6PG13	38	13-0	17	742		5-0	3-0	5-0											
6PG14	50	5-0	17	375		1-0	3-0	1-0											
8PG15	14	26-5	N1	987														26-5	
6PG16	72	3-7	2	386	1-0	2-7					0-0								
SUBTOTAL GALV. BARS				9768	LB THIS POUR														
PIER PEDESTALS - POUR 3																			
5PG17	10	14-1	T1	147	0-6½	3-6	3-0	3-6	3-0		0-6½	0-3¾							
SUBTOTAL GALV. BARS				147	LB THIS POUR														

DESIGNED BY: G. ARADHYA
DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGN SUPERVISOR: B. REYNOLDS
M. SEIDEL

FILE NAME = 121481D_sht_02_bar_01.dgn
DATE/TIME = 12-AUG-2025 07:36
USER = dhoerner

ALTERED ON:	AFFIXED ON: 08/15/2025
SIGNATURE: STAMP:	SIGNATURE: STAMP: STATE OF NEW YORK BRETT D. REYNOLDS LICENSED PROFESSIONAL ENGINEER NO. 084906

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT: INTERCHANGE 46 (WEST HENRIETTA) BRIDGE REPLACEMENT

LOCATION OF PROJECT: BUFFALO DIVISION MP 362.44

TITLE OF DRAWING: BAR LIST (SHEET 1 OF 3)

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-55

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
END ABUTMENT - LOWER STEM - POUR 1																			
8AG1	208	11-9	17	6526		9-1	2-8	0-0											
8AG2	52	5-6	2	762	1-5	2-8					1-5								
6AG3	18	36-6	N1	987														36-6	
6AG4	18	17-11	N1	484														17-11	
5AG5	2	37-0	N1	77														37-0	
5AG6	2	17-0	N1	35														17-0	
5AG7	104	6-10	17	741		2-1	2-8	2-1											
5AG8	4	9-1	N1	38														9-1	
5AG9	8	4-10	17	40		1-2	2-6	1-2											
SUBTOTAL GALV. BARS				9691	LB THIS POUR														
END ABUTMENT - UPPER STEM - POUR 6																			
6AG3	9	36-6	N1	493														36-6	
6AG4	9	17-11	N1	242														17-11	
5AG9	8	4-10	17	40		1-2	2-6	1-2											
6AG10	1	18-8	N1	28														18-8	
6AG11	6	27-3	N1	246														27-3	
6AG12	20	8-10	N1	265														8-10	
6AG13	8	2-3	N1	27														2-3	
5AG14	104	7-10	17	849		2-7	2-8	2-7											
5AG15	2	27-0	N1	56														27-0	
5AG16	39	3-8	1	148	0-7	2-6					0-7			0-5					
5AG17	44	6-0	17	275		3-0	3-0	0-0											
6AG18	37	29-0	17	1611		3-0	26-0	0-0											
6AG19	36	32-0	17	1730		3-0	29-0	0-0											
SUBTOTAL GALV. BARS				6013	LB THIS POUR														
END ABUTMENT WINGWALL 'EAL' - FOOTING - POUR 2																			
5AG20	21	7-0	N1	153														7-0	
6AG21	21	7-0	N1	221														7-0	
5AG22	14	20-2	N1	294														20-2	
5AG23	5	7-2	N1	37														7-2	
5AG24	1	5-6	2	6	0-10	4-8					0-0								
5AG25	21	6-10	2	150	0-10	6-0					0-0								
6AG26	21	7-0	2	221	1-0	6-0					0-0								
SUBTOTAL GALV. BARS				1082	LB THIS POUR														
END ABUTMENT WINGWALL 'EAL' - LOWER STEM - POUR 4																			
5AG27	8	6-11	N1	58														6-11	
5AG28	4	24-0	N1	100														24-0	
SUBTOTAL GALV. BARS				158	LB THIS POUR														
END ABUTMENT WINGWALL 'EAL' - UPPER STEM - POUR 7																			
5AG28	12	24-0	N1	300														24-0	

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
5AG29	2	24-0	N1	50														24-0	
5AG30	50	5-11	N1	308														5-11	
SUBTOTAL GALV. BARS				659	LB THIS POUR														
END ABUTMENT WINGWALL 'EAR' - FOOTING - POUR 3																			
5AG20	21	7-0	N1	153														7-0	
6AG21	21	7-0	N1	221														7-0	
5AG22	14	20-2	N1	294														20-2	
5AG23	5	7-2	N1	37														7-2	
5AG24	1	5-6	2	6	0-10	4-8					0-0								
5AG25	21	6-10	2	150	0-10	6-0					0-0								
6AG26	21	7-0	2	221	1-0	6-0					0-0								
SUBTOTAL GALV. BARS				1082	LB THIS POUR														
END ABUTMENT WINGWALL 'EAR' - LOWER STEM - POUR 5																			
5AG27	8	6-11	N1	58														6-11	
5AG28	4	24-0	N1	100														24-0	
SUBTOTAL GALV. BARS				158	LB THIS POUR														
END ABUTMENT WINGWALL 'EAR' - UPPER STEM - POUR 8																			
5AG28	12	24-0	N1	300														24-0	
5AG29	2	24-0	N1	50														24-0	
5AG30	50	5-11	N1	308														5-11	
SUBTOTAL GALV. BARS				659	LB THIS POUR														
SUPERSTRUCTURE SLAB																			
4SG1	511	39-0	N1	13311														39-0	
4SG2	518	39-0	N1	13493														39-0	
5SG3	219	32-3	N1	7366														32-3	
5SG4	84	39-4	N1	3446														39-4	
4SG5	394	33-7	N1	8838														33-7	
4SG6	394	20-0	N1	5263														20-0	
4SG7	393	36-6	1	9581	0-6	36-0					0-0			0-4					
4SG8	393	18-1	1	4747	0-6	17-7					0-0			0-4					
6SG9	392	10-8	1	6279	0-8	10-0					0-0			0-6					
SUBTOTAL GALV. BARS				72325	LB THIS POUR														
BEGIN APPROACH SLAB																			
5HG1	33	16-0	N1	551														16-0	
5HG2	33	38-0	N1	1308														38-0	
5HG3	33	16-7	1	570	0-7	16-0					0-0			0-5					
5HG4	33	38-7	1	1328	0-7	38-0					0-0			0-5					
6HG5	64	10-8	1	1025	0-8	10-0					0-0			0-6					
5HG6	78	22-4	2	1817	0-10	21-6					0-0								
5HG7	78	22-1	1	1796	0-7	21-6					0-0			0-5					
SUBTOTAL GALV. BARS				8394	LB THIS POUR														
BEGIN SLEEPER SLAB																			
5HG8	14	38-0	N1	555														38-0	
5HG9	14	16-0	N1	234														16-0	

ALTERED ON:

SIGNATURE:
STAMP:

AFFIXED ON:
08/15/2025

SIGNATURE:
STAMP:

STATE OF NEW YORK
BRETT D. REYNOLDS
No. 084906
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
BAR LIST
(SHEET 2 OF 3)

CONTRACT NUMBER:
TAB 25-17B

DATE:
08/15/2025

DRAWING NUMBER:
ST-56

DESIGN SUPERVISOR: B. REYNOLDS
DRAFTED BY: D. HOERNER
DESIGNED BY: G. ARADHYA
CHECKED BY: M. SEIDEL
M. SEIDEL

FILE NAME = 121481D_sht_02_bar_02.dgn
DATE/TIME = 12/14/2025 07:36
USER = dhoerner

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
5HG10	100	5-6	N1	573														5-6	
5HG11	50	4-6	17	235		1-6	1-6	1-6											
5HG12	3	38-0	N1	119														38-0	
5HG13	3	16-0	N1	50														16-0	
SUBTOTAL GALV. BARS				1765	LB THIS POUR														
END APPROACH SLAB																			
5HG1	33	16-0	N1	551														16-0	
5HG2	33	38-0	N1	1308														38-0	
5HG3	33	16-7	1	570	0-7	16-0					0-0			0-5					
5HG4	33	38-7	1	1328	0-7	38-0					0-0			0-5					
6HG5	64	10-8	1	1025	0-8	10-0					0-0			0-6					
5HG6	78	22-4	2	1817	0-10	21-6					0-0								
5HG7	78	22-1	1	1796	0-7	21-6					0-0			0-5					
SUBTOTAL GALV. BARS				8394	LB THIS POUR														
END SLEEPER SLAB																			
5HG8	14	38-0	N1	555														38-0	
5HG9	14	16-0	N1	234														16-0	
5HG10	100	5-6	N1	573														5-6	
5HG11	50	4-6	17	235		1-6	1-6	1-6											
5HG12	3	38-0	N1	119														38-0	
5HG13	3	16-0	N1	50														16-0	
SUBTOTAL GALV. BARS				1765	LB THIS POUR														
BARRIER - SUPERSTRUCTURE																			
5BG1	786	3-0	N1	2458														3-0	
6BG2	786	4-1	N12	4816		3-1	1-0	0-0				0-2¼			0-11¾				
5BG3	786	6-6	13	5314		2-11¼	0-8¾	2-9¾			0-0	1-1½		0-0	2-10½		0-7½	3-0¾	0-3
7BG4	192	35-7	N1	13966														35-7	
SUBTOTAL GALV. BARS				26553	LB THIS POUR														
BARRIER - BEGIN APPROACH SLAB																			
5BG1	48	3-0	N1	150														3-0	
6BG2	18	4-1	N12	110		3-1	1-0	0-0				0-2¼			0-11¾				
5BG3	30	6-6	13	203		2-11¼	0-8¾	2-9¾			0-0	1-1½		0-0	2-10½		0-7½	3-0¾	0-3
7BG5	24	21-7	N1	1059														21-7	
6BG6	24	4-1	14	147	0-0	2-0	1-0¾	1-0	0-0			1-5	0-8¼		1-5	0-8¾		3-2½	
5BG7	24	5-8	S11	141								2-8						0-6	
5BG8	24	5-2	S11	128								2-5						0-6	
		AVG.					AVG.					AVG.			AVG.				
6BG9	30	3-7	N12	161		3-1	0-6	0-0				0-1			0-5¾				
6BG9	H/H1	VARIES	FROM		0-0	TO	0-2¼	(2	SETS OF	15)									
6BG9	K/K1	VARIES	FROM		0-0	TO	0-11¾	(2	SETS OF	15)									
		AVG.				AVG.	AVG.					AVG.			AVG.		AVG.		
5BG10	30	6-5	13	201		2-10½	0-9	2-9¾			0-0	0-9¾		0-0	2-10		0-3¾	3-0¾	0-3
5BG10	K/K1	VARIES	FROM		2-9¾	TO	2-10¼	(2	SETS OF	15)									

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
5BG10	L	VARIES	FROM		0-0	TO	0-7½	(2	SETS OF	15)									
SUBTOTAL GALV. BARS				2300	LB THIS POUR														
BARRIER - END APPROACH SLAB																			
5BG1	48	3-0	N1	150														3-0	
6BG2	18	4-1	N12	110		3-1	1-0	0-0				0-2¼			0-11¾				
5BG3	30	6-6	13	203		2-11¼	0-8¾	2-9¾			0-0	1-1½		0-0	2-10½		0-7½	3-0¾	0-3
7BG5	24	21-7	N1	1059														21-7	
6BG6	24	4-1	14	147	0-0	2-0	1-0¾	1-0	0-0			1-5	0-8¼		1-5	0-8¾		3-2½	
5BG7	24	5-8	S11	141								2-8						0-6	
5BG8	24	5-2	S11	128								2-5						0-6	
		AVG.					AVG.					AVG.			AVG.				
6BG9	30	3-7	N12	161		3-1	0-6	0-0				0-1			0-5¾				
6BG9	H/H1	VARIES	FROM		0-0	TO	0-2¼	(2	SETS OF	15)									
6BG9	K/K1	VARIES	FROM		0-0	TO	0-11¾	(2	SETS OF	15)									
		AVG.				AVG.	AVG.					AVG.			AVG.		AVG.		
5BG10	30	6-5	13	201		2-10½	0-9	2-9¾			0-0	0-9¾		0-0	2-10		0-3¾	3-0¾	0-3
5BG10	K/K1	VARIES	FROM		2-9¾	TO	2-10¼	(2	SETS OF	15)									
5BG10	L	VARIES	FROM		0-0	TO	0-7½	(2	SETS OF	15)									
SUBTOTAL GALV. BARS				2300	LB THIS POUR														
TOTAL GALV. BARS				38991	LB IN ABUTMENT				(PAID FOR UNDER ITEM 556.0203)										
TOTAL GALV. BARS				20319	LB IN APPROACH SLAB				(PAID FOR UNDER ITEM 557.1012)										
TOTAL GALV. BARS				31154	LB IN BARRIER				(PAID FOR UNDER ITEM 569.04)										
TOTAL GALV. BARS				21368	LB IN PIER				(PAID FOR UNDER ITEM 556.0203)										
TOTAL GALV. BARS				72325	LB IN SUPERSTRUCTURE SLAB				(PAID FOR UNDER ITEM 557.1112)										
TOTAL GALV. BARS				184157	LB ENTIRE STRUCTURE														

DRAFTED BY: D. HOERNER
CHECKED BY: M. SEIDEL
DESIGNED BY: G. ARADHYA
DESIGN SUPERVISOR: B. REYNOLDS
CHECKED BY: M. SEIDEL

FILE NAME = 0214810_sht_02_bar_03.dgn
DATE/TIME = 12/14/2025 07:36
USER = dhoerner

ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON: 08/15/2025
SIGNATURE:
STAMP:

STATE OF NEW YORK
BRETT D. REYNOLDS
NO. 084906
LICENSED PROFESSIONAL ENGINEER

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

REVISIONS

DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE Thruway Authority

BERGMANN
ARCHITECTS ENGINEERS PLANNERS

TITLE OF PROJECT
INTERCHANGE 46 (WEST HENRIETTA)
BRIDGE REPLACEMENT

LOCATION OF PROJECT
BUFFALO DIVISION
MP 362.44

TITLE OF DRAWING
BAR LIST
(SHEET 3 OF 3)

CONTRACT NUMBER: TAB 25-17B

DATE: 08/15/2025

DRAWING NUMBER: ST-57