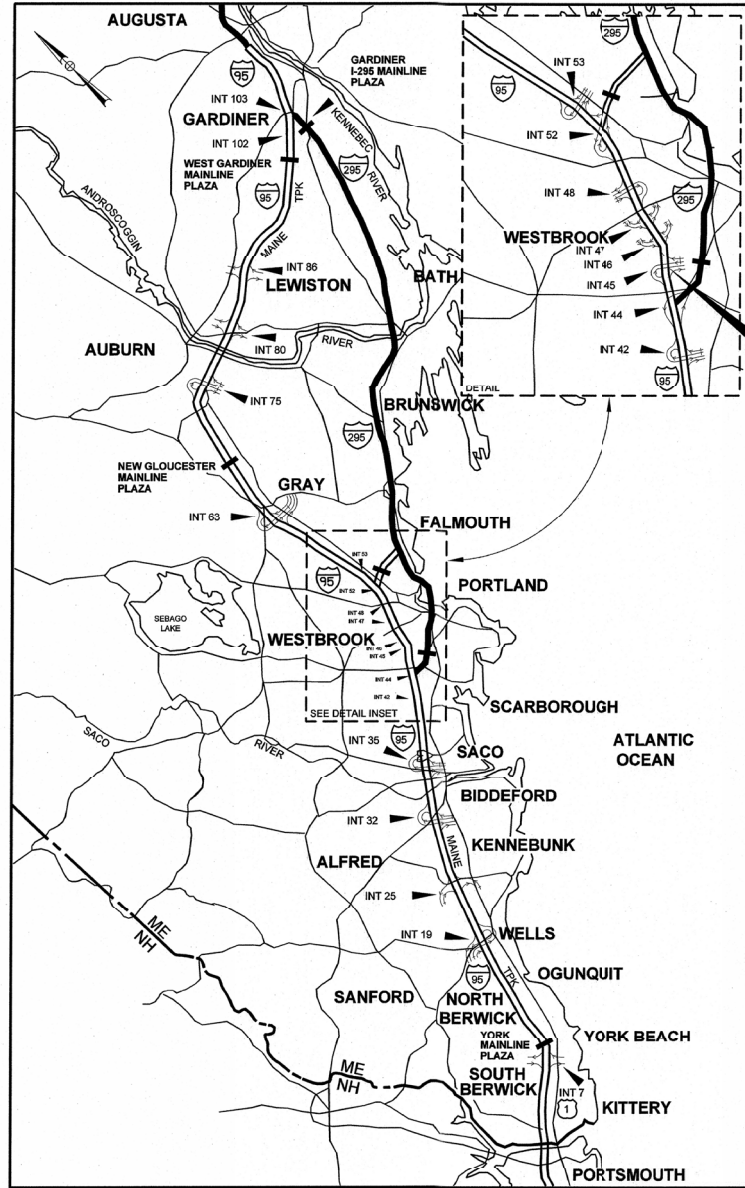


Date:1/4/2021

Filename: 001_Title Sheet.dgn



LOCATION MAP



THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
 ROBERT D. STONE, VICE CHAIR
 MICHAEL J. CIANCHETTE, MEMBER
 ANN R. ROBINSON, MEMBER
 THOMAS J. ZUKE, MEMBER
 JANE L. LINCOLN, MEMBER
 BRUCE VAN NOTE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2021.07 EXIT 45 INTERCHANGE RECONFIGURATION MILE 44.9

CONTRACT 2021.07
 EXIT 45
 INTERCHANGE RECONFIGURATION
 MILE 44.9

INDEX OF SHEETS	
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3-5	ESTIMATED QUANTITIES
6-7	EARTHWORK SUMMARY
8	GENERAL NOTES
9-14	TYPICAL SECTIONS
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399-401	OVERHEAD SIGN STRUCTURE
402-431	TOLL ADMINISTRATION BUILDING PLANS

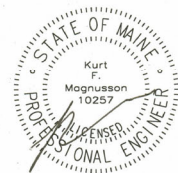
CONTRACT 2021.07

APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER
 DATE: 01-11-21

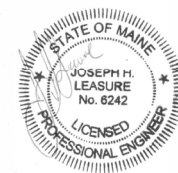
William H. Yates III
 WILLIAM H. YATES III - DIRECTOR OF INFORMATION SERVICES & COMMUNICATIONS
 DATE: 1/11/21

Stephen R. Tartre
 STEPHEN R. TARTRE, P.E. - CHIEF ENGINEER & DIRECTOR OF ENGINEERING
 DATE: 1/11/21



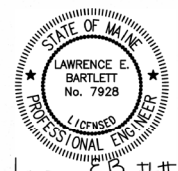
Kurt F. Magnusson, P.E.
 Mechanical Systems Inc.
 1/12/2021

SHEETS 423 TO 429



Joseph H. Leasure, P.E.
 L&L Structural Engineering Services, Inc.
 1/12/2021

SHEETS 416 TO 422



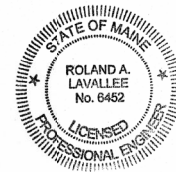
Lawrence E. Bartlett
 Bartlett Design, Inc.
 1/12/2021

SHEETS 430 TO 431



Michael F. Hays, R.A.
 Grant-Hays Associates, Inc.
 1/12/2021

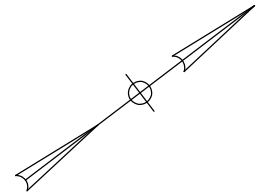
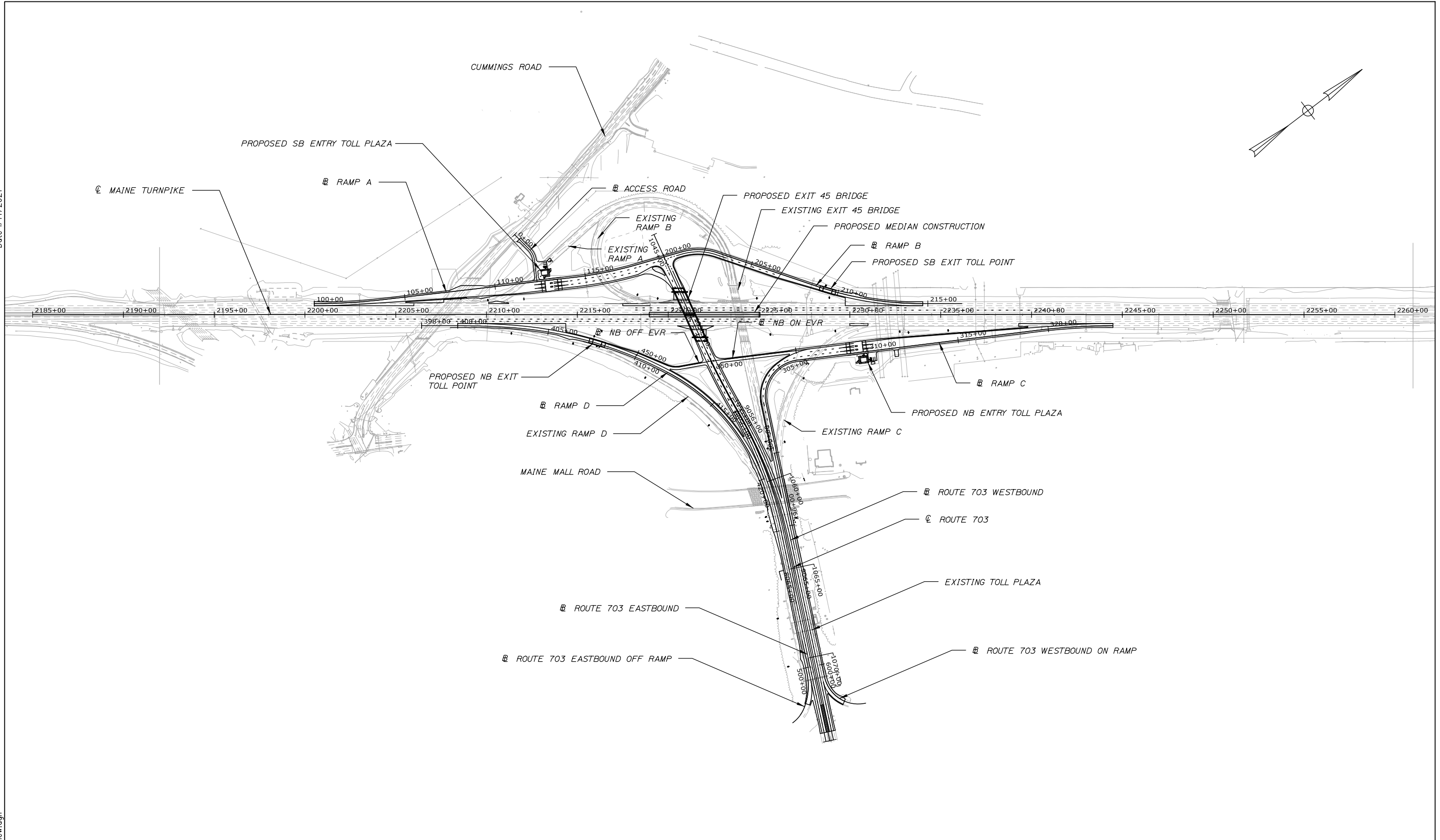
SHEETS 402 TO 415



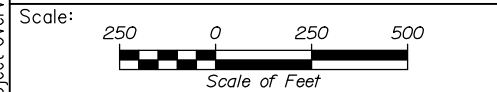
Roland A. Lavalley, P.E., PLS
 VICE PRESIDENT
 DIRECTOR OF OPERATIONS

DATE: 1/6/21

Date: 1/14/2021



Filename: 0XX_Project Overview.dgn



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION

PROJECT OVERVIEW PLAN

SHEET NUMBER: PO-01


CONTRACT: 2021.07 2 OF 431

Date: 1/14/2021

ESTIMATED QUANTITIES						
ITEM NO.	DESCRIPTION	HIGHWAY QUANTITY	BRIDGE QUANTITY	TOLL QUANTITY	TOTAL QUANTITY	UNIT
201.11	CLEARING	2			2	AC
202.071	REMOVING ASBESTOS CONTAINING MATERIALS			1	1	LS
202.081	REMOVING BUILDINGS			1	1	LS
202.15	REMOVING EXISTING MANHOLE OR CATCH BASIN	16			16	EA
202.17	REMOVING EXISTING STRUCTURAL CONCRETE (320 CY)			1	1	LS
202.19	REMOVE EXISTING BRIDGE (500,000 LB STEEL, 750 CY CONCRETE)		1		1	LS
202.202	REMOVING PAVEMENT SURFACE	16,900			16,900	SY
203.20	COMMON EXCAVATION	96,800		1575	98,375	CY
203.25	GRANULAR BORROW	6700	530	150	7380	CY
203.43	GEOFOAM LIGHTWEIGHT FILL	7000			7000	CY
203.45	LEVELING SAND	1650			1650	CY
203.52	LOW PERMEABILITY FILL	15			15	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES, PLAN QUANTITY		370	870	1240	CY
206.10	STRUCTURAL EARTH EXCAVATION - PIERS		270		270	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	13,400			13,400	CY
304.14	AGGREGATE BASE COURSE - TYPE A	9100		920	10,020	CY
403.207	HOT MIX ASPHALT, 19.0 mm NOMINAL MAXIMUM SIZE	7500			7500	TON
403.2072	19.0 mm ASPHALT RICH BASE HMA	4200			4200	TON
403.208	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE	910			910	TON
403.2081	HOT MIX ASPHALT, 12.5 mm (POLYMER MODIFIED) - RAP	5150	170	62	5382	TON
403.209	HOT MIX ASPHALT, 9.5 mm (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	59			59	TON
403.212	HOT MIX ASPHALT, 4.75 mm NOMINAL MAXIMUM SIZE (SHIM)	400			400	TON
403.213	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)	5450	170	62	5682	TON
409.15	BITUMINOUS TACK COAT RSI OR RSIH - APPLIED	6300	160	63	6523	GAL
419.30	SAWING BITUMINOUS PAVEMENT	9400			9400	LF
470.08	BERM DROPOFF CORRECTION - GRINDINGS	50			50	TON
501.231	DYNAMIC LOADING TEST		3	5	8	EA
501.50	STEEL H-BEAM PILES 89 LB/FT, DELIVERED			4300	4300	LF
501.501	STEEL H-BEAM PILES 89 LB/FT, IN PLACE			4300	4300	LF
501.52	STEEL H-BEAM PILES 102 LB/FT, DELIVERED		3650	2600	6250	LF
501.521	STEEL H-BEAM PILES 102 LB/FT, IN PLACE		3650	2600	6250	LF
501.90	PILE TIPS		40	84	124	EA
501.91	PILE SPLICES		76	189	265	EA
501.92	PILE DRIVING EQUIPMENT MOBILIZATION		0.5	0.5	1	LS
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS (155 CY)		1		1	LS
502.239	STRUCTURAL CONCRETE, PIERS (243 CY)		1		1	LS
502.26	STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLAB ON STEEL BRIDGES (533 CY)		1		1	LS
502.261	STRUCTURAL CONCRETE, PILE CAPS (300 CY)			1	1	LS
502.262	STRUCTURAL CONCRETE, PAVEMENT SLABS (890 CY)			1	1	LS
502.263	STRUCTURAL CONCRETE - PLAZA ISLANDS, BUMPERS AND CURTAIN WALLS (120 CY)			1	1	LS
502.264	STRUCTURAL CONCRETE, PARAPET (59 CY)		1		1	LS
502.265	STRUCTURAL CONCRETE - UTILITY PITS (66 CY)			1	1	LS
502.266	STRUCTURAL CONCRETE - PEDESTALS & FOOTINGS (13 CY)			1	1	LS
502.31	STRUCTURAL CONCRETE APPROACH SLAB (160 CY)		1		1	LS
502.452	STRUCTURAL CONCRETE DISTRIBUTION SLAB (140 CY)		1		1	LS
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED		257,000	257,000	514,000	LB
503.15	EPOXY-COATED REINFORCING STEEL, PLACING		257,000	257,000	514,000	LB
503.18	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS, FABRICATED AND DELIVERED			80,600	80,600	LF
503.19	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS, PLACING			80,600	80,600	LF
503.90	SYNTHETIC FIBER REINFORCEMENT			2700	2700	LB
504.50	TOLL PLAZA CANOPY - SOUTHBOUND			1	1	LS
504.51	TOLL PLAZA CANOPY - NORTHBOUND			1	1	LS
504.61	TOLL DUAL PURPOSE MAST ARM - SOUTHBOUND			1	1	LS
504.62	TOLL DUAL PURPOSE MAST ARM - NORTHBOUND			1	1	LS
504.702	STRUCTURAL STEEL FABRICATED AND DELIVERED, WELDED (581,000 LB)		1		1	LS
504.71	STRUCTURAL STEEL ERECTION (581,000 LB)		1		1	LS

ESTIMATED QUANTITIES						
ITEM NO.	DESCRIPTION	HIGHWAY QUANTITY	BRIDGE QUANTITY	TOLL QUANTITY	TOTAL QUANTITY	UNIT
505.08	SHEAR CONNECTORS (5,285 EA)		1		1	LS
506.9104	THERMAL SPRAY COATING (SHOP APPLIED) (581,000 LB)		1		1	LS
507.091	ALUMINUM BRIDGE RAILING, 1 BAR (548 LF)		1		1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (2800 SY)		0.7	0.3	1	LS
511.091	TEMPORARY EARTH SUPPORT SYSTEMS		0.5	0.5	1	LS
513.09	SLOPE PROTECTION - PORTLAND CEMENT CONCRETE		1020		1020	SY
514.06	CURING BOX FOR CONCRETE CYLINDERS		1		1	EA
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES		895	700	1595	SY
515.203	BROADCAST SEALANT FOR CONCRETE SURFACES			1300	1300	SY
515.23	EPOXY OVERLAY			86	86	SY
520.23	ASPHALTIC PLUG JOINT		125	360	485	LF
523.52	BEARING INSTALLATION		7		7	EA
523.5401	LAMINATED ELASTOMERIC BEARINGS, FIXED		7		7	EA
524.30	TEMPORARY STRUCTURAL SUPPORT			1	1	LS
524.40	PROTECTIVE SHIELDING - STEEL GIRDERS		4200		4200	SY
526.306	TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY AUTHORITY (7900 LF)	1			1	LS
526.307	CONCRETE BARRIER TYPE 1 - STORMWATER FILTER	30			30	LF
526.351	CONCRETE BARRIER - TYPE A (2021 LF)		1		1	LS
526.352	CONCRETE BARRIER - TYPE B (453 LF)		1		1	LS
526.353	CONCRETE BARRIER - TYPE C (370 LF)		1		1	LS
526.354	CONCRETE BARRIER - TYPE D (151 LF)		1		1	LS
526.362	CONCRETE BARRIER - TYPE C TRANSITION BARRIER		2		2	EA
526.366	CONCRETE BARRIER - MEDIUM GUARDRAIL TRANSITION BARRIER		2		2	EA
526.367	CONCRETE BARRIER - TYPE B GUARDRAIL TRANSITION BARRIER		2		2	EA
526.368	CONCRETE BARRIER - TYPE C GUARDRAIL TRANSITION BARRIER		1		1	EA
526.369	CONCRETE BARRIER - TYPE D GUARDRAIL TRANSITION BARRIER		1		1	EA
527.307	CENTER BARRIER CRASH ATTENUATOR (SMART CUSHION)	2			2	EA
527.341	WORK ZONE CRASH CUSHION - TL-3	6			6	UNIT
527.342	WORK ZONE CRASH CUSHION - TL-2	4			4	UNIT
527.343	RESETTING EXISTING WORK ZONE CRASH CUSHION	1			1	UNIT
602.40	PUMPED GROUT FILL	91			91	CY
603.101	TEMPORARY CULVERT	150			150	LF
603.102	TEMPORARY CULVERT - 15' RCP CLASS V	32			32	LF
603.155	12" REINFORCED CONCRETE PIPE - CLASS III	510			510	LF
603.159	12" CULVERT PIPE OPTION III	440			440	LF
603.175	18" REINFORCED CONCRETE PIPE - CLASS III	330			330	LF
603.195	24" REINFORCED CONCRETE PIPE - CLASS III	330			330	LF
603.28	CONCRETE COLLAR	1			1	EA
604.09	CATCH BASIN TYPE B1	4			4	EA
604.182	CLEANING EXISTING CATCH BASIN AND MANHOLE	1			1	EA
604.244	CATCH BASIN TYPE F4	1			1	EA
604.246	CATCH BASIN TYPE F5	9			9	EA
604.248	CATCH BASIN TYPE F6	6			6	EA
604.26	CATCH BASIN TYPE B5	6			6	EA
604.40	SECURE CATCH BASIN GRATE	5			5	EA
605.016	6" PVC UNDERDRAIN	550			550	LF
605.018	8" PVC UNDERDRAIN	210			210	LF
605.09	6 INCH UNDERDRAIN TYPE B	1050			1050	LF
605.10	6 INCH UNDERDRAIN OUTLET	40			40	LF
605.11	12 INCH UNDERDRAIN TYPE C	420			420	LF
605.12	15 INCH UNDERDRAIN TYPE C	300			300	LF
605.13	18 INCH UNDERDRAIN TYPE C	620			620	LF

Filename: 00X_EstimatedQuantities_01.dgn

Scale:				Designed by:			
NOT TO SCALE							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	DEB 09\20	Checked	RMH 09\20
				Drawn	CAV 09\20	In Charge of	RAL 09\20

HNTB CORPORATION			
340 County Road, Suite 6-C			
Westbrook, ME 04092			
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FAX (207) 228-0909			

	
THE GOLD STAR MEMORIAL HIGHWAY	
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.	

EXIT 45 INTERCHANGE RECONFIGURATION ESTIMATED QUANTITIES (1 of 3)	
SHEET NUMBER: EQ-01	

CONTRACT: 2021.07	3 OF 431
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Date: 1/14/2021

Table with 7 columns: ITEM NO., DESCRIPTION, HIGHWAY QUANTITY, BRIDGE QUANTITY, TOLL QUANTITY, TOTAL QUANTITY, UNIT. Rows include items like 606.1301 GUARDRAIL, 610.08 PLAIN RIPRAP, and 627.18 PAVEMENT MARKING LINE.

Table with 7 columns: ITEM NO., DESCRIPTION, HIGHWAY QUANTITY, BRIDGE QUANTITY, TOLL QUANTITY, TOTAL QUANTITY, UNIT. Rows include items like 627.78 PAVEMENT MARKING LINE, 631.10 AIR COMPRESSOR, and 652.30 FLASHING ARROW.

Filename: 00X_EstimatedQuantities_02.dgn

Scale:

NOT TO SCALE

Designed by:



HNTB CORPORATION
340 County Road, Suite 6-C
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THE GOLD STAR MEMORIAL HIGHWAY

EXIT 45 INTERCHANGE RECONFIGURATION
ESTIMATED QUANTITIES (2 OF 3)

Table with 8 columns: No., Revision, By, Date, Description, By, Date, Description. Includes roles like CONSULTANT PROJECT MANAGER, Designed, and Drawn.

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: EQ-02

4 OF 431

Date: 1/14/2021

ESTIMATED QUANTITIES						
ITEM NO.	DESCRIPTION	HIGHWAY QUANTITY	BRIDGE QUANTITY	TOLL QUANTITY	TOTAL QUANTITY	UNIT
655.012	INSTALLATION OF CASH LANE CONTROLLER CABINET			6	6	EA
655.02	DVAs MOUNT INSTALLATION			8	8	EA
655.041	INSTALLATION OF SENSOR LOOPS - SOUTHBOUND			1	1	LS
655.042	INSTALLATION OF SENSOR LOOPS - NORTHBOUND			1	1	LS
655.05	INSTALLATION OF AVI ANTENNAS			10	10	EA
655.07	TRAFFIC CONTROL PEDESTAL PREPARATION WORK			6	6	EA
655.101	*6 AWG WIRE			100	100	LF
655.102	*2 AWG WIRE			7870	7870	LF
655.12	*12 AWG WIRE			24,500	24,500	LF
655.125	500 MCM WIRE			1060	1060	LF
655.13	*14 AWG WIRE			100	100	LF
655.141	4PR/24 (CATEGORY 5E) CABLE			6600	6600	LF
655.151	LMR 600 CABLE			600	600	LF
655.16	6 STRAND MULTI-MODAL FIBER OPTIC CABLE			12,900	12,900	LF
655.17	IVIS HOMERUN LOOP CABLE (IMSA 50-2 *14)			100	100	LF
655.200	1-1/2" SCHEDULE 40 PVC CONDUIT			60	60	LF
655.201	3" SCHEDULE 40 PVC CONDUIT			100	100	LF
655.2021	1" SCHEDULE 80 PVC CONDUIT			360	360	LF
655.203	1-1/2" SCHEDULE 80 PVC CONDUIT			700	700	LF
655.2031	2" SCHEDULE 80 PVC CONDUIT			440	440	LF
655.204	3" SCHEDULE 80 PVC CONDUIT			12,000	12,000	LF
655.205	4" SCHEDULE 80 PVC CONDUIT			350	350	LF
655.2052	5" SCHEDULE 80 PVC CONDUIT			425	425	LF
655.206	1" GALVANIZED RIGID METAL CONDUIT			475	475	LF
655.207	1-1/2" GALVANIZED RIGID METAL CONDUIT			270	270	LF
655.2071	2" GALVANIZED RIGID METAL CONDUIT			450	450	LF
655.208	3" GALVANIZED RIGID METAL CONDUIT			130	130	LF
655.209	1/2" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT			50	50	LF
655.2101	1-1/2" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT			100	100	LF
655.2102	2" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT			100	100	LF
655.211	1-1/2" 3/32" ELECTRICAL METALLIC TUBING CONDUIT			100	100	LF
655.215	3/4" 3/32" ELECTRICAL METALLIC TUBING CONDUIT			100	100	LF
655.221	TYPE A PULL BOX INSIDE			10	10	EA
655.222	TYPE C PULL BOX INSIDE			12	12	EA
655.223	TYPE D PULL BOX OUTDOOR			8	8	EA
655.224	TYPE E PULL BOX INSIDE			8	8	EA
655.225	TYPE F PULL BOX OUTDOOR			16	16	EA
655.226	TYPE G PULL BOX OUTDOOR			16	16	EA
655.30	12"x12"x6" GALVANIZED JUNCTION BOX			16	16	EA
655.42	36"x30"x20" NEMA 4X CABINET			2	2	EA
655.421	EXIT TOLL POWER AND COMMUNICATION CABINET			2	2	EA
655.501	1" PVC CONDUIT CONDULETS			10	10	EA
655.502	1-1/2" PVC CONDUIT CONDULETS			10	10	EA
655.503	2" PVC CONDUIT CONDULETS			24	24	EA
655.504	3" PVC CONDUIT CONDULETS			16	16	EA
655.505	4" PVC CONDUIT CONDULETS			2	2	EA
655.506	5" PVC CONDUIT CONDULETS			4	4	EA
655.512	1" RIGID METAL CONDUIT CONDULETS			20	20	EA
655.513	1-1/2" RIGID METAL CONDUIT CONDULETS			20	20	EA
655.514	2" RIGID METAL CONDUIT CONDULETS			16	16	EA
655.515	3" RIGID METAL CONDUIT CONDULETS			10	10	EA
655.57	1-1/2" ELECTRICAL METAL TUBING CONDULETS			20	20	EA
655.58	3/4" ELECTRICAL METAL TUBING CONDULETS			10	10	EA
655.63	4"x4" PLASTIC NEMA 4R WIREWAY			160	160	LF
655.64	6"x6" PLASTIC NEMA 4R WIREWAY			160	160	LF

ESTIMATED QUANTITIES						
ITEM NO.	DESCRIPTION	HIGHWAY QUANTITY	BRIDGE QUANTITY	TOLL QUANTITY	TOTAL QUANTITY	UNIT
655.801	LIGHTNING SUPPRESSION SYSTEM - SOUTHBOUND ENTRY AND EXIT			1	1	LS
655.802	LIGHTNING SUPPRESSION SYSTEM - NORTHBOUND ENTRY AND EXIT			1	1	LS
655.81	KEY SWITCH			12	12	EA
655.82	DUPLEX RECEPTACLE			10	10	EA
655.84	QUADPLEX RECEPTACLE			18	18	EA
655.92	LED CANOPY LIGHT FIXTURE			12	12	EA
655.941	STAND-BY GENERATOR AND TRANSFER SWITCH - SOUTHBOUND			1	1	LS
655.942	STAND-BY GENERATOR AND TRANSFER SWITCH - NORTHBOUND			1	1	LS
655.99	LED BUMPER BEACON			6	6	EA
656.50	BALED HAY, IN PLACE	150			150	EA
656.60	TEMPORARY BERMS	3500			3500	LF
656.62	TEMPORARY SLOPE DRAINS	220			220	LF
656.632	30 INCH TEMPORARY SILT FENCE	22,200			22,200	LF
659.10	MOBILIZATION	1			1	LS
670.011	SEPTIC SYSTEM - SOUTHBOUND			1	1	LS
670.012	SEPTIC SYSTEM - NORTHBOUND			1	1	LS
673.01	STORMWATER SOIL FILTER BED	290			290	CY
800.01	TOLL ADMINISTRATION BUILDING - SOUTHBOUND			1	1	LS
800.02	TOLL ADMINISTRATION BUILDING - NORTHBOUND			1	1	LS
800.30	TOLL PLAZA BOOTHS, CANOPY AND GANTRY DEMOLITION			1	1	LS
800.401	NEW TOLL BOOTH INSTALLATION - SOUTHBOUND			1	1	LS
800.402	NEW TOLL BOOTH INSTALLATION - NORTHBOUND			1	1	LS
800.901	GENERATOR PAD - SOUTHBOUND			1	1	LS
800.902	GENERATOR PAD - NORTHBOUND			1	1	LS

Filename: 00X_EstimatedQuantities_03.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	DEB	09\20	Checked	RMH	09\20
Drawn	CAV	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.



EXIT 45
 INTERCHANGE RECONFIGURATION
 ESTIMATED QUANTITIES (3 OF 3)

SHEET NUMBER: EQ-03
 CONTRACT: 2021.07
 5 OF 431

Date: 1/14/2021

	MOT RAMPS A, B, A/B, C, & D/ROUTE 703 EB	MAINLINE	ROUTE 703	RAMP A	RAMP B	RAMP C
COMMON EXCAVATION FOR ESTIMATE						
COMMON EXCAVATION (FROM SECTIONS)	648	4606	5598	4908	543	4630
SURCHARGE EXCAVATION (FROM SECTIONS)	203	44	7367	5831	5750	11,038
ABUTMENT #1 GEOFOAM COMMON EXCAVATION	0	0	6520	0	0	0
ABUTMENT #2 GEOFOAM COMMON EXCAVATION	0	0	2955	0	0	0
ABUTMENT #1 GEOFOAM SURCHARGE EXCAVATION	0	0	647	0	0	0
ABUTMENT #2 GEOFOAM SURCHARGE EXCAVATION	0	0	159	0	0	0
GRUBBING IN FILL	6	0	0	761	0	123
MUCK EXCAVATION IN FILL	0	0	0	87	0	0
PAVEMENT SALVAGE IN FILL	1940	0	104	54	0	26
PAVEMENT SALVAGE IN CUT (OUTSIDE LIMITS)	0	0	16	685	906	198
UNDERDRAINED SOIL FILTER EXCAVATION	0	0	5266	0	0	0
REMOVAL OF MOT RAMP	518	0	0	0	0	0
DITCH EXCAVATION	0	0	0	0	0	190
TOTAL COMMON EXCAVATION	3315	4650	28,632	12,326	7199	16,205
FILL FOR BORROW CALCULATIONS						
COMMON BORROW (FROM SECTIONS)	1237	391	2622	2109	3	488
ABUTMENT #1 GEOFOAM COMMON BORROW	0	0	1607	0	0	0
ABUTMENT #2 GEOFOAM COMMON BORROW	0	0	339	0	0	0
GRUBBING IN FILL	6	0	0	761	0	123
MUCK EXCAVATION IN FILL	0	0	0	87	0	0
UNDERDRAINED SOIL FILTER FILL	0	0	166	0	0	0
TOTAL FILL	1243	391	4734	2957	3	611
AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS						
ALL DEDUCTIONS:						
GRUBBING IN FILL	6	0	0	761	0	123
GRUBBING IN CUT	558	797	1052	1137	69	540
MUCK EXCAVATION (CUT AND FILL)	0	44	0	87	0	0
PAVEMENT SALVAGE (CUT AND FILL)	2091	140	741	926	957	909
TOTAL DEDUCTIONS	2655	981	1793	2911	1026	1572
TOTAL AVAILABLE COMMON EXCAVATION (-) TOTAL DEDUCTIONS	660	3669	26,839	9415	6173	14,633
TOTAL AVAILABLE STRUCTURAL EXCAVATION (UNDERDRAIN ONLY)	0	144	560	0	0	0
RIPRAP EXCAVATION	48	153	214	194	37	62
TOTAL AVAILABLE NON-ROCK EXCAVATION	708	3966	27,613	9609	6210	14,695
COMPUTATION OF WASTE STORAGE & WASTE MATERIAL						
GRUBBING IN FILL	6	0	0	761	0	123
GRUBBING IN CUT	558	797	1052	1137	69	540
MUCK EXCAVATION (CUT AND FILL)	0	44	0	87	0	0
TOTAL WASTE MATERIAL	564	841	1052	1985	69	663
TOTAL WASTE MATERIAL TO BE WASTED	564	841	1052	1985	69	663
COMPUTATION FOR COMMON BORROW FOR ESTIMATE						
TOTAL AVAILABLE NON-ROCK EXCAVATION	708 x 0.90 = 637	3966 x 0.90 = 3569	27,613 x 0.90 = 24,852	9609 x 0.90 = 8648	6210 x 0.90 = 5589	14,695 x 0.90 = 13,226
TOTAL AVAILABLE EXCAVATION	637	3569	24,852	8648	5589	13,226
BORROW NEEDED = TOTAL FILL (-) TOTAL AVAILABLE EXCAVATION	606	0	0	0	0	0
IF NO BORROW IS NEEDED, SURPLUS AVAILABLE EXCAVATION = AVAILABLE EXCAVATION (-) TOTAL FILL	0	3178	20,118	5691	5586	12,615


Filename: 00X_Earthwork_Summary_01.dgn

Scale: NOT TO SCALE		Designed by:				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION EARTHWORK SUMMARY 1		SHEET NUMBER: EW-01		
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.				MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.				CONTRACT: 2021.07				
				Designed	EDD	09\20	Checked	JRH	09\20	Drawn	AJS	09\20	In Charge of	RAL	09\20	6 OF 431

Date:1/14/2021

	NB ON EVR	RAMP D	NB OFF EVR	ACCESS ROAD	ROUTE 703 ON & OFF RAMPS	TOTAL
COMMON EXCAVATION FOR ESTIMATE						
COMMON EXCAVATION (FROM SECTIONS)	946	14,502	0	93	1777	38,251
SURCHARGE EXCAVATION (FROM SECTIONS)	1238	4149	1468	117	0	37,205
ABUTMENT #1 GEOFOAM COMMON EXCAVATION	0	0	0	0	0	6520
ABUTMENT #2 GEOFOAM COMMON EXCAVATION	0	0	0	0	0	2955
ABUTMENT #1 GEOFOAM SURCHARGE EXCAVATION	0	0	0	0	0	647
ABUTMENT #2 GEOFOAM SURCHARGE EXCAVATION	0	0	0	0	0	159
GRUBBING IN FILL	0	0	0	0	0	890
MUCK EXCAVATION IN FILL	0	0	0	0	0	87
PAVEMENT SALVAGE IN FILL	0	0	0	0	7	2131
PAVEMENT SALVAGE IN CUT (OUTSIDE LIMITS)	86	0	0	0	0	1891
UNDERDRAINED SOIL FILTER EXCAVATION	0	0	0	0	0	5266
REMOVAL OF MOT RAMP	0	0	0	0	0	518
DITCH EXCAVATION	0	0	0	0	0	190
TOTAL COMMON EXCAVATION	2270	18,651	1468	210	1784	96,710
FILL FOR BORROW CALCULATIONS						
COMMON BORROW (FROM SECTIONS)	382	153	0	156	220	7761
ABUTMENT #1 GEOFOAM COMMON BORROW	0	0	0	0	0	1607
ABUTMENT #2 GEOFOAM COMMON BORROW	0	0	0	0	0	339
GRUBBING IN FILL	0	0	0	0	0	890
MUCK EXCAVATION IN FILL	0	0	0	0	0	87
UNDERDRAINED SOIL FILTER FILL	0	0	0	0	0	166
TOTAL FILL	382	153	0	156	220	10,850
AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS						
ALL DEDUCTIONS:						
GRUBBING IN FILL	0	0	0	0	0	890
GRUBBING IN CUT	70	521	0	0	0	4744
MUCK EXCAVATION (CUT AND FILL)	0	344	0	0	0	475
PAVEMENT SALVAGE (CUT AND FILL)	472	1349	0	0	55	7640
TOTAL DEDUCTIONS	542	2214	0	0	55	13,749
TOTAL AVAILABLE COMMON EXCAVATION (-) TOTAL DEDUCTIONS	1728	16,437	1468	210	1729	82,961
TOTAL AVAILABLE STRUCTURAL EXCAVATION (UNDERDRAIN ONLY)	0	0	0	0	0	704
RIPRAP EXCAVATION	0	119	0	0	0	827
TOTAL AVAILABLE NON-ROCK EXCAVATION	1728	16,556	1468	210	1729	84,492
COMPUTATION OF WASTE STORAGE & WASTE MATERIAL						
GRUBBING IN FILL	0	0	0	0	0	890
GRUBBING IN CUT	70	521	0	0	0	4744
MUCK EXCAVATION (CUT AND FILL)	0	344	0	0	0	475
TOTAL WASTE MATERIAL	70	865	0	0	0	6109
TOTAL WASTE MATERIAL TO BE WASTED	70	865	0	0	0	6109
COMPUTATION FOR COMMON BORROW FOR ESTIMATE						
TOTAL AVAILABLE NON-ROCK EXCAVATION	$1728 \times 0.90 = 1555$	$16,556 \times 0.90 = 14,900$	$1468 \times 0.90 = 1321$	$210 \times 0.90 = 189$	$1729 \times 0.90 = 1556$	$84,492 \times 0.90 = 76,043$
TOTAL AVAILABLE EXCAVATION	1555	14,900	1321	189	1556	76,043
BORROW NEEDED = TOTAL FILL (-) TOTAL AVAILABLE EXCAVATION	0	0	0	0	0	0
IF NO BORROW IS NEEDED, SURPLUS AVAILABLE EXCAVATION = AVAILABLE EXCAVATION (-) TOTAL FILL	1173	14,747	1321	33	1336	65,193

Filename: 00X_Earthwork Summary_02.dgn

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				Designed	EDD 09\20	Checked	JRH 09\20	SHEET NUMBER: EW-02	
				Drawn	AJS 09\20	In Charge of	RAL 09\20	7 OF 431	

GENERAL

- ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES, 2014 EDITION, AND MAINE DEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, LATEST REVISION, UNLESS OTHERWISE INCLUDED IN THESE PLANS.
- THE CONTRACTOR SHALL SUBMIT HIS PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- GEOTECHNICAL INFORMATION EITHER FURNISHED OR REFERENCED IN THIS PLAN SET IS FOR THE BIDDER'S AND CONTRACTOR'S USE. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR THE INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE TIME OF CONSTRUCTION. THE AUTHORITY SHALL NOT BE RESPONSIBLE FOR THE BIDDER'S AND CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
- THE PROJECT GEOTECHNICAL REPORT, INCLUDING TEST BORING LOGS TITLED EXIT 45 INTERCHANGE GEOTECHNICAL DESIGN REPORT MAY BE ACCESSED AT THE MAINE TURNPIKE AUTHORITY WEB ADDRESS WWW.MAINETURNPIKE.COM/PROJECTS/CONSTRUCTION-CONTRACTS.
- EXISTING TOPOGRAPHY SHOWN ON THE PLANS WAS GENERATED FROM MULTIPLE SURVEYS AND PROPOSED PLAN INFORMATION OF THE CUMMINGS ROAD (2018.19), EMBANKMENT PRELOAD (2019.13), AND PORTLAND AREA WIDENING (2020.03) CONTRACTS.
- RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EXISTING TRAFFIC CONTROL DEVICES AND SIGNS LEFT IN PLACE BY THE EMBANKMENT PRELOAD (2019.13) CONTRACTOR UPON START OF CONTRACT. UPON THE COMPLETION OF THIS CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STACKING ALL EXISTING TRAFFIC CONTROL DEVICES AND SIGNS.
- CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND MICROSTATION, OR OTHER APPROVED FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO: PAVEMENT, CONCRETE BARRIER, GUARDRAIL, CULVERTS, MEDIAN DRAINAGE, FOUNDATIONS, WIRING, SIGNS, ETC.
- CONTRACTOR SHALL NOTE THAT THE TURNPIKE MAINLINE NORTHBOUND AND SOUTHBOUND TRAVELWAYS AND ROUTE 703 EASTBOUND AND WESTBOUND TRAVELWAYS ARE NOT AT THE SAME ELEVATION.
- MEDIAN BARRIER EMBEDMENT AND TOTAL HEIGHT IS NOT TO SCALE ON CROSS SECTIONS. CONTRACTOR SHALL SEE BARRIER DETAIL SHEETS FOR THIS INFORMATION.

EARTHWORK

- CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT. THE ACTUAL CLEARING LINES SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND SHALL BE APPROVED BY THE RESIDENT PRIOR TO ANY CLEARING TAKING PLACE.
- CLEARING IS NOT ALLOWED FROM JUNE 1ST TO JULY 31ST.
- EXISTING INSLOPES STEEPER THAN 2:1 IN PROPOSED FILL AREAS SHALL BE BENCHED AS SHOWN IN THE DETAILS OR AS DIRECTED BY THE RESIDENT.
- GRUBBING IN FILL AND MUCK EXCAVATION HAVE BEEN SHOWN ON THE CROSS SECTIONS. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR QUANTITY ESTIMATION PURPOSES ONLY. ACTUAL LIMITS MAY VARY BASED ON FIELD CONDITIONS AND AS DIRECTED BY THE RESIDENT. GRUBBING DEPTH HAS BEEN ESTIMATED AS 6" IN FIELD AREAS AND 12" IN WOODED AREAS. TOTAL MUCK EXCAVATION DEPTH (INCLUDING GRUBBING) HAS BEEN ESTIMATED AT 18".
- WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.
- ALL EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P, EXCAVATIONS, OF 29 CFR PART 1926.650-652 AND APPENDICES. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY, STABILITY AND MAINTENANCE OF ALL TEMPORARY SLOPES.
- REMOVAL OF EXISTING PAVEMENT SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 6". NOTE THAT PAVEMENT THICKNESS ON RAMPS NEAR THE EXISTING OVERPASS BRIDGE MAY BE SIGNIFICANTLY GREATER THAN 6".

- ON SITE STOCKPILING RESTRICTIONS EXIST. SEE SPECIAL PROVISION SECTION 107.4.7 LIMITATIONS OF OPERATIONS FOR MORE INFORMATION.
- DENSITY CONTROL FOR COMPACTION OF ALL EMBANKMENTS SHALL FOLLOW THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 203.12 - CONSTRUCTION OF EARTH EMBANKMENTS WITH MOISTURE AND DENSITY CONTROL.
- PLACEMENT OF TEMPORARY FILLS OUTSIDE THE EMBANKMENT FOOTPRINT FOR PURPOSES SUCH AS MATERIAL STOCKPILES, ACCESS ROADS, ETC. WILL REQUIRE ADVANCE APPROVAL OF THE RESIDENT. THE CONTRACTOR SHALL SUBMIT PLAN DETAILS IN ADVANCE SHOWING PROPOSED LOCATION AND HEIGHTS OF TEMPORARY FILLS. TEMPORARY FILLS SHALL HAVE SUFFICIENT LATERAL CLEARANCE FROM EXISTING UTILITIES, ROADWAYS, AND STRUCTURES TO PREVENT DAMAGE.
- EXISTING GROUND SHOWN ON THE PROFILES AND CROSS SECTIONS ACCOUNT FOR ANTICIPATED SETTLEMENT OF THE EMBANKMENT PRELOAD (2019.13). THE CONTRACTOR SHALL VERIFY ACTUAL ELEVATIONS ALONG THE PROFILE PRIOR TO BEGINNING CONSTRUCTION. EARTHWORK QUANTITIES SHALL BE ADJUSTED FOR ACTUAL CONDITIONS.
- TURNPIKE MAINLINE WILL HAVE 1/2" SURFACE PAVEMENT PLACED IN THE FUTURE. ALL OTHER ROADWAYS WILL INCLUDE FINAL PAVEMENT SURFACING.
- ADDITIONAL SHAPING OF SLOPES BEYOND WHAT IS SHOWN IN THE PLANS MAY BE REQUIRED AS DIRECTED BY THE RESIDENT. PAYMENT FOR ADDITIONAL SHAPING SHALL BE MADE UNDER APPROPRIATE RENTAL ITEMS.
- ALL BORROW SHALL BE FROM SUITABLE EXCAVATION.
- ALL AGGREGATE SUBBASE COURSE - GRAVEL SHALL BE FROM SURCHARGE EXCAVATION.

EROSION CONTROL

- THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT UNDER THE APPROPRIATE BID ITEMS.
- 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.
- NEWLY DISTURBED EARTH SHALL BE MULCHED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 656. PAYMENT WILL BE MADE UNDER ITEM 619.1202 - TEMPORARY MULCH.
- TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEP BEST MANAGEMENT PRACTICES.
- TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEP BEST MANAGEMENT PRACTICES.
- TEMPORARY STONE CHECK DAMS SHALL BE PLACED IN EXISTING DITCHES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT.
- TEMPORARY BERMS AND TEMPORARY SLOPE DRAINS ARE ANTICIPATED AT ALL STONE DOWNSPOUT LOCATIONS WHILE GROWTH IS BEING ESTABLISHED ON SIDE SLOPES.
- TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL DITCHES AND 2:1 OR STEEPER SLOPES FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6' WIDE OR AS DESIGNATED BY THE RESIDENT.
- UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL AREAS.
- A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT ALL STREAM LOCATIONS AND OPEN WATER WETLANDS AS SHOWN ON THE PLANS.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE USED AND MAINTAINED. NO TRACKING OF SOIL ON THE MAINE TURNPIKE OR LOCAL ROADS WILL BE ALLOWED.
- PLACE A TWO FOOT WIDE STRIP OF TEMPORARY EROSION CONTROL BLANKET ON THE SIDE SLOPES ALONG THE TOP OF THE RIPRAP AND BEHIND THE WINGWALLS.

- EROSION CONTROL MEASURES FROM PREVIOUS PROJECTS WILL STILL BE IN PLACE AT THE START OF THIS CONTRACT. ALL EXISTING EROSION CONTROL MEASURES SHALL BE INSPECTED AND REPLACED AS NECESSARY. PAYMENT FOR MAINTENANCE AND REPLACING EROSION CONTROL MEASURES SHALL BE MADE UNDER THE APPROPRIATE EROSION CONTROL ITEMS. PAYMENT FOR REMOVAL OF EXISTING EROSION CONTROL MEASURES NOT REPLACED SHALL BE INCIDENTAL TO THE CONTRACT.

GUARDRAIL

- AT THE END OF EACH WORK DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL OR CONCRETE BARRIER WITHIN ALL WORK AREAS THAT ARE ACCESSIBLE TO TRAFFIC.
- CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.
- ALL GUARDRAIL SHALL BE INSTALLED IN A MANNER TO AVOID DRAINAGE STRUCTURES AND ELECTRICAL CONDUITS.
- ALL EXISTING DELINEATOR AND MILE MARKER POSTS ON THE MAINE TURNPIKE, ROUTE 703, AND THOSE DRAINAGE SPECIFIC DELINEATORS FROM CONTRACT 2019.13 WHICH ARE IMPACTED SHALL BE REMOVED AND RESET. PAYMENT WILL BE MADE UNDER ITEM 606.356 DELINEATOR POST - REMOVE AND RESET. ALL EXISTING DELINEATORS ON RAMPS AND ANY OTHER DELINEATORS SHALL BE REMOVED AND STACKED. PAYMENT WILL BE MADE UNDER ITEM 606.355 - REMOVE AND STACK DELINEATOR.
- IN NON-GUARDRAIL AREAS, DELINEATORS SHALL BE SPACED AT 264' ON THE MAINE TURNPIKE AND ON ROUTE 703 AND AT 50' ON THE RAMPS. CONFIRM LAYOUT WITH THE RESIDENT.
- IN NON-GUARDRAIL AREAS WHERE CURB IS PRESENT, A DELINEATOR POST WILL BE INSTALLED AT EACH END OF EACH RUN OF CURB.
- ALL PERMANENT GUARDRAIL AND END TERMINALS SHALL BE MASH 2016 COMPLIANT.
- HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
- TOP OF GUARDRAIL HEIGHT SHALL BE 32" ABOVE THE CONTRACT'S FINAL PAVEMENT SURFACE ON TURNPIKE MAINLINE. THIS WILL RESULT IN A HEIGHT OF 30 1/2" ABOVE A FUTURE 1/2" OVERLAY INSTALLED BY OTHERS.

UTILITY

- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF THE WORK.
- ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.
- THE UTILITIES INVOLVED IN THIS CONTRACT ARE:

CENTRAL MAINE POWER (DISTRIBUTION)
 CENTRAL MAINE POWER (TRANSMISSION)
 CHARTER COMMUNICATIONS
 CITY OF SOUTH PORTLAND
 CONSOLIDATED COMMUNICATIONS (FAIRPOINT)
 FIRSTLIGHT
 GRANITE STATE GAS
 MAINE REALTY ADVISORS (SEWER)
 MAINE TURNPIKE AUTHORITY (LIGHTING)
 MCI WORLDCOM (VERIZON)
 PORTLAND WATER DISTRICT
 DEAD RIVER COMPANY (PROPANE)
 MAINEDOT (LIGHTING)

- THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED THEIR UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL SIGN LOCATIONS AND/OR ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE UTILITY LOCATIONS.
- ALL SEPTIC AND WATER SERVICE LINES SHALL BE MARKED WITH UNDERDRAIN DELINEATOR POSTS SPACED AT 200'.

LIGHTING


- ALL PERMANENT WIRING SHALL BE COPPER.
- ALL RESET LIGHT STANDARDS SHALL INCLUDE NEW BREAKAWAY COUPLINGS AND MOUNTING HARDWARE. PAYMENT FOR BREAKAWAY COUPLINGS SHALL BE INCIDENTAL TO REMOVE AND RESET LIGHT STANDARD.
- ALL NEW OR RESET LIGHT STANDARDS SHALL BE PLACED ON NEW 24" FOUNDATIONS.
- BREAKAWAY COUPLINGS ARE REQUIRED FOR ALL PERMANENT LIGHT POLES.
- EXISTING LIGHTING STANDARDS WILL VARY THROUGHOUT THE PROJECT. ALL LIGHTING STANDARDS WILL BE TEMPLATED TO ENSURE THE CORRECT BOLT PATTERN IS USED FOR EACH PROPOSED FOUNDATION.
- LOCATION OF ELECTRICAL CONDUIT IS SCHEMATIC ONLY.
- ALL EXISTING HIGHWAY LIGHTING SHALL BE MAINTAINED OR TEMPORARY LIGHTING SHALL BE PROVIDED BY CONTRACTOR UNTIL PERMANENT HIGHWAY LIGHTING IS OPERATIONAL.

DRAINAGE

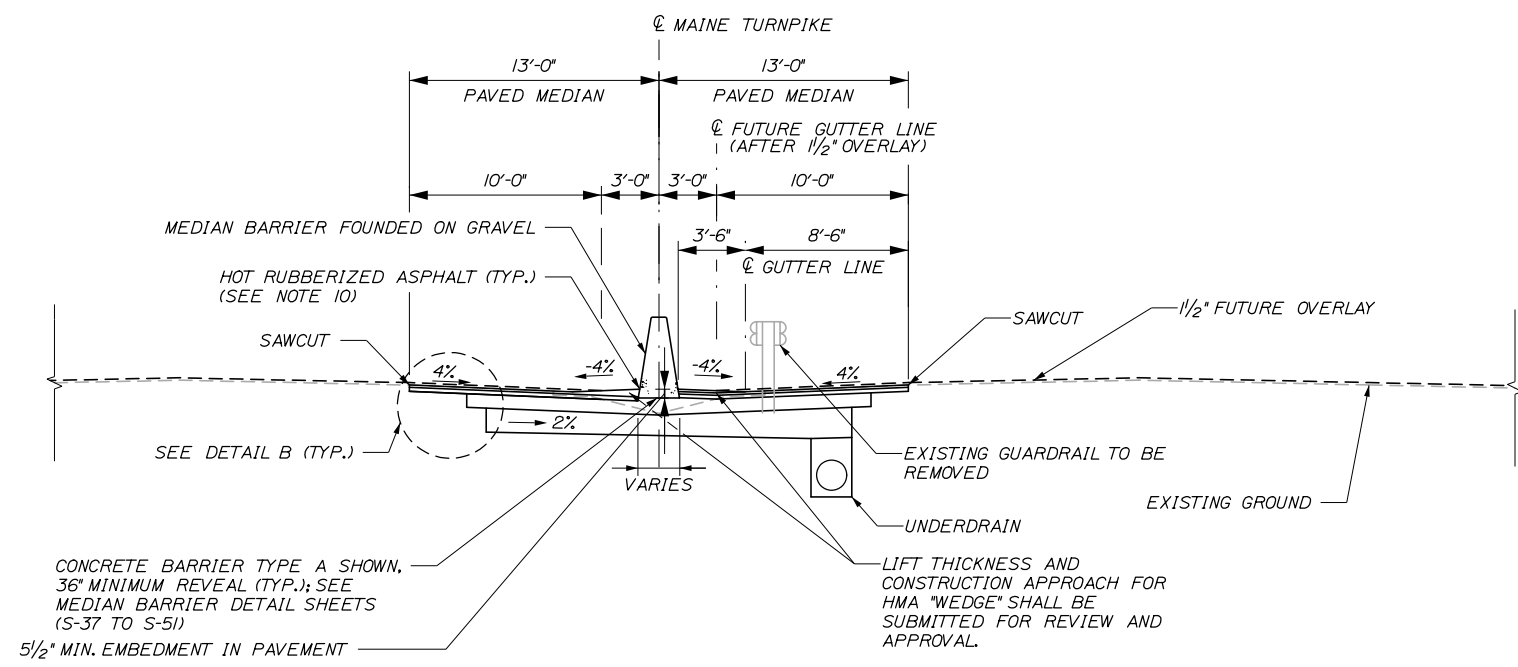
- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT. ABANDONED STRUCTURES TO REMAIN SHALL BE PLUGGED WITH BRICK AND MORTAR (INCIDENTAL TO 604 ITEMS) AND FILLED WITH PUMPED GROUT FILL (ITEM 602.40).
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
- IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS OF GRANULAR BORROW - UNDERWATER BACKFILL AND WILL BE PAID FOR AS GRANULAR BORROW.
- ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO TAKE A PROPOSED PIPE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CULVERT ITEMS.
- ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CATCH BASIN ITEMS.
- EXISTING CATCH BASINS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 604.182 CLEANING EXISTING CATCH BASIN AND MANHOLE. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATORS). POST CONSTRUCTION, ALL EXISTING DRAINAGE TO REMAIN AND NEW DRAINAGE SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATORS).
- ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE DURING CONSTRUCTION AS NEEDED FOR TEMPORARY USE, PRIOR TO PROPOSED DRAINAGE SYSTEMS BEING FUNCTIONAL AS IDENTIFIED ON PLANS.
- CATCH BASIN GRATES THAT WILL SEE TRAFFIC DURING MOT OPERATIONS SHALL BE SECURED AS NOTED IN THE SPECIAL PROVISIONS.

Date: 1/14/2021

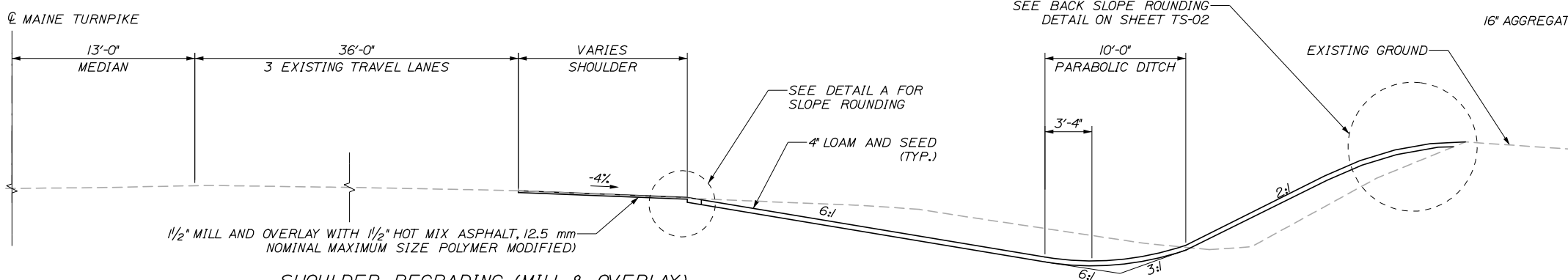
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Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION GENERAL NOTES	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.				SHEET NUMBER: GN-01	
				By	Date	By	Date	CONTRACT: 2021.07	
				Designed	EDD 09\20	Checked	JRH 09\20	8 OF 431	
				Drawn	EPR 09\20	In Charge of	RAL 09\20	MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.	

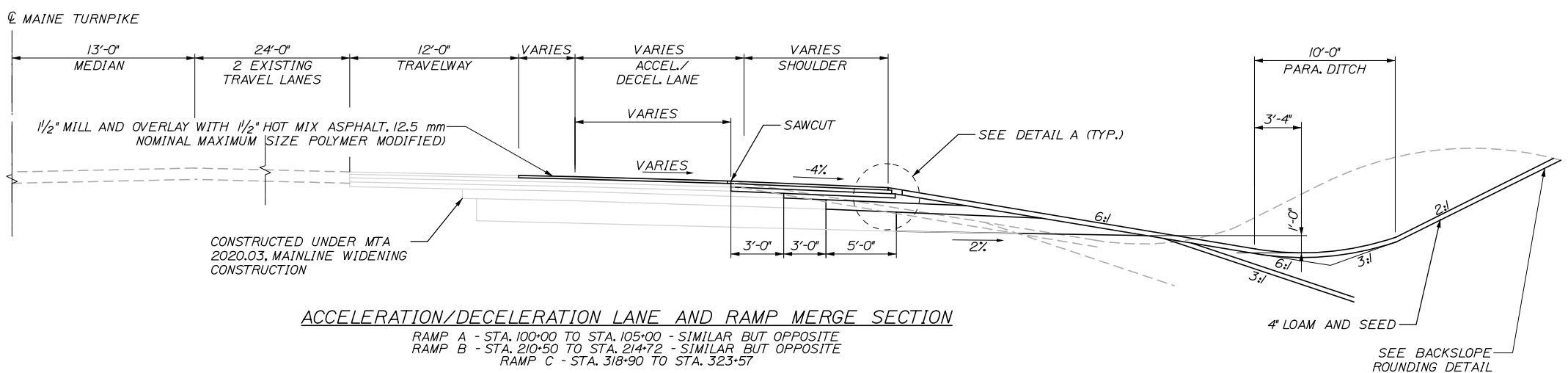
Date: 1/14/2021



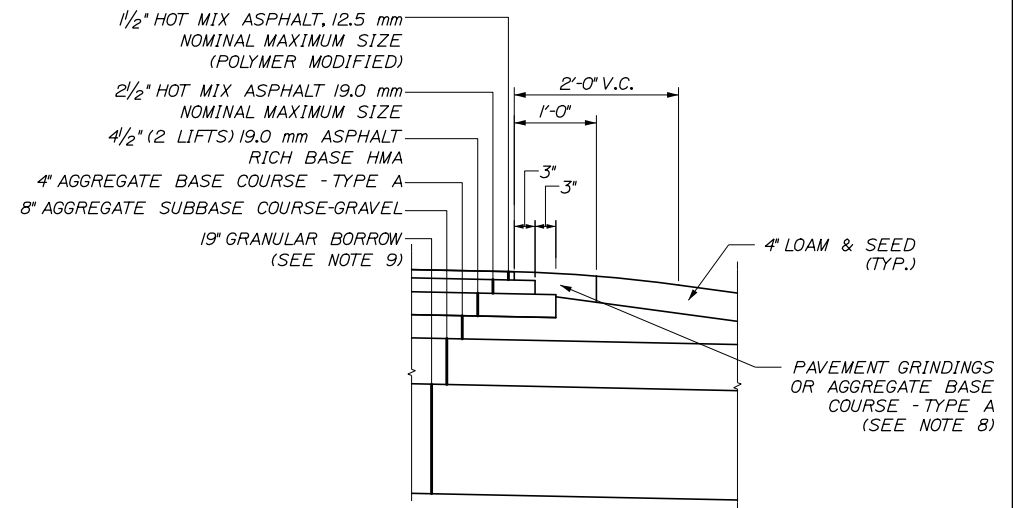
MEDIAN RECONSTRUCTION
STA. 2219+05 TO STA. 2225+05
*SEE DRAINAGE DETAILS AND PLANS FOR DRAINAGE LOCATIONS.



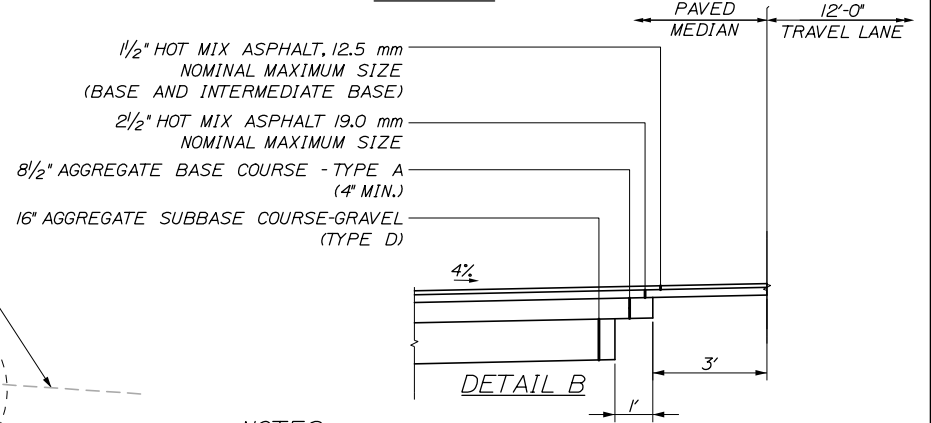
SHOULDER REGRADING (MILL & OVERLAY)
STA. 2216+50 TO STA. 2220+00
STA. 2229+50 TO STA. 2232+50



ACCELERATION/DECELERATION LANE AND RAMP MERGE SECTION
RAMP A - STA. 100+00 TO STA. 105+00 - SIMILAR BUT OPPOSITE
RAMP B - STA. 210+50 TO STA. 214+72 - SIMILAR BUT OPPOSITE
RAMP C - STA. 318+90 TO STA. 323+57



DETAIL A



DETAIL B

- NOTES:**
1. THE PAVEMENT BASE DEPTHS AND CROSS SLOPES AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
 2. WHEN SUPERELEVATION OF THE TRAVEL LANES EXCEEDS 4%, LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVEL LANE.
 3. "ROLLOVER" ALGEBRAIC DIFFERENCE IN RATES OF CROSS SLOPE SHALL NOT EXCEED 8%.
 4. CROWNS FOR BOTH SUPERELEVATED AND NORMAL SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
 5. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS PRIOR TO PAVING. REMAINDER OF SAWCUT TO BE BITUMINOUS TACK COAT. PAYMENT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.
 6. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
 7. CONSTRUCT A 20' TRANSITION FOR AGGREGATE COURSE DEPTHS FROM RAMP ADJACENT TO TURNPIKE/ROUTE 703 TO RAMP PROPER STARTING AT THE END OF PHYSICAL GORE, UNLESS OTHERWISE NOTED.
 8. PAVEMENT GRINDINGS, IF USED, WILL BE PAID FOR UNDER ITEM 304.14 - AGGREGATE BASE COURSE - TYPE A.
 9. GRANULAR BORROW SHALL MEET GRADATION FOR GRANULAR BORROW FOR UNDERWATER BACKFILL.
 10. HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO THE MEDIAN BARRIER PRIOR TO PAVING AGAINST BARRIER. PAYMENT SHALL BE MADE INCIDENTAL TO PAVEMENT ITEMS.

Scale: NOT TO SCALE

No.	Revision	By	Date

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	By	Date		By	Date
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

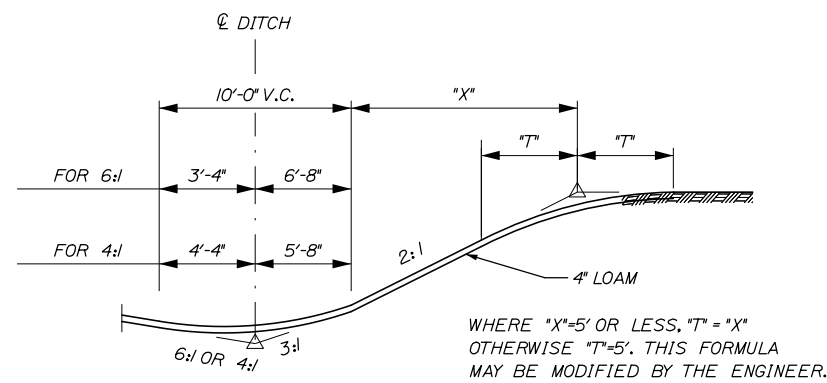
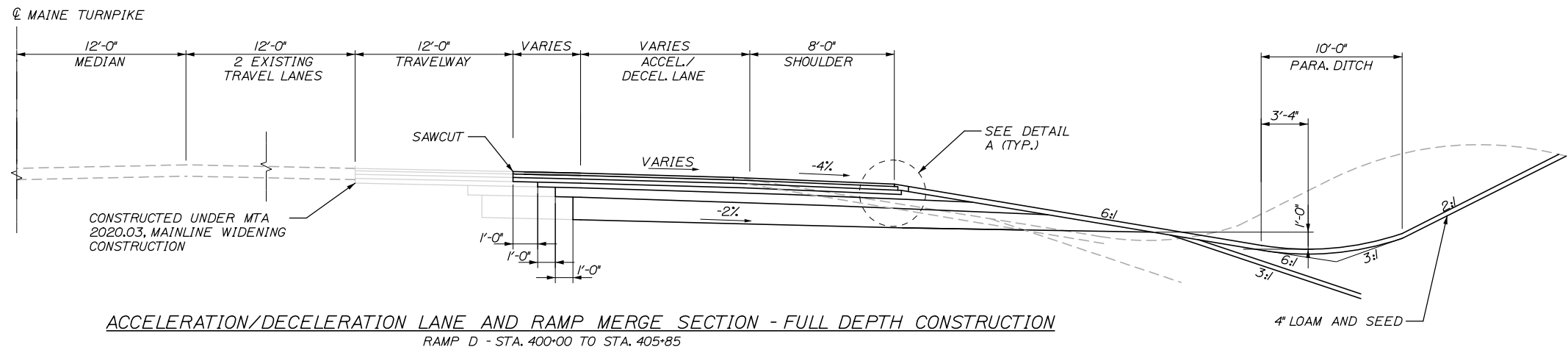
TYPICAL SECTIONS - MAINLINE

SHEET NUMBER: TS-01

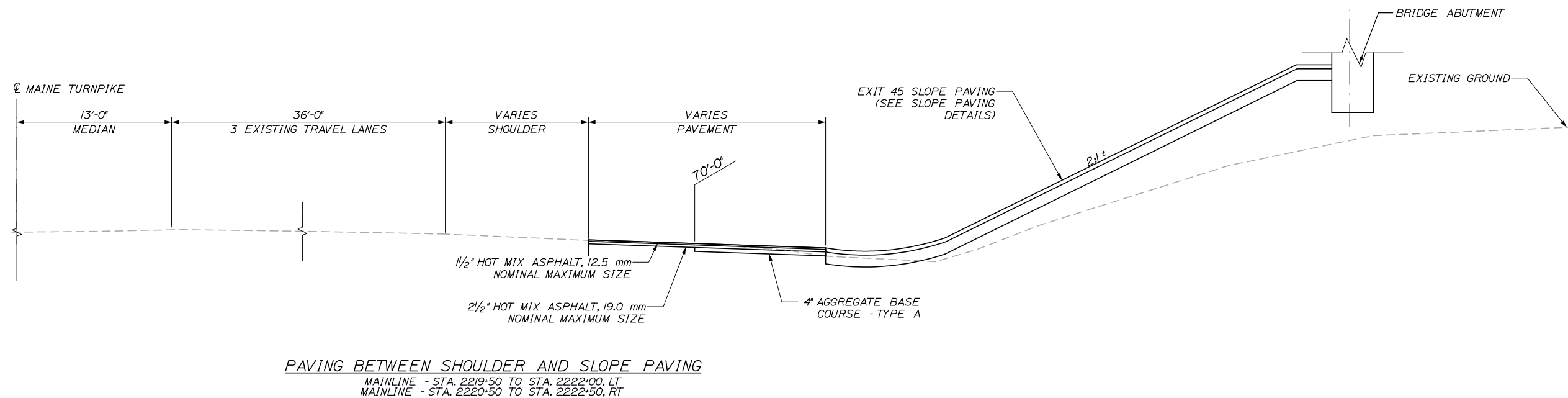
CONTRACT: 2021.07

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Date: 1/14/2021



BACKSLOPE ROUNDING DETAIL



Filename: 00X_TypSec02.dgn

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No.	Revision	By	Date

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MAINE TURNPIKE

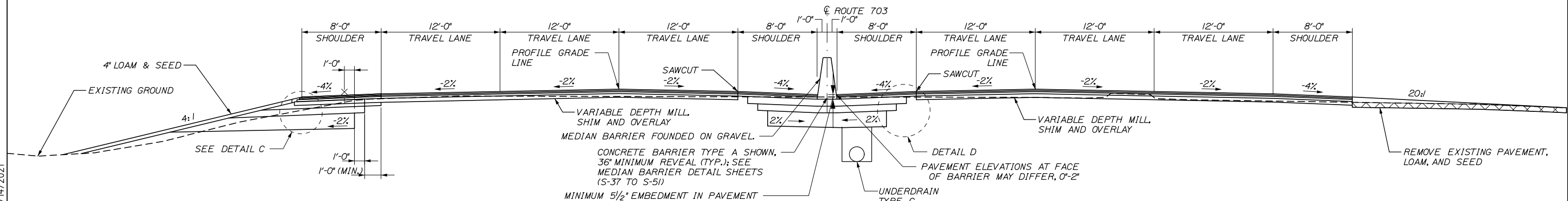
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

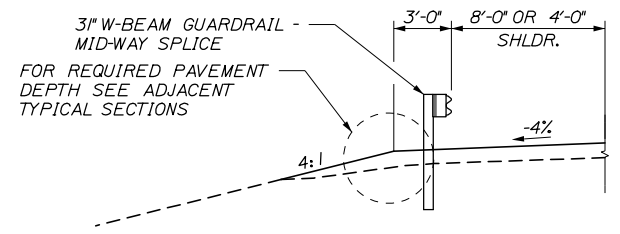
EXIT 45
 INTERCHANGE RECONFIGURATION
 TYPICAL SECTIONS - MAINLINE

SHEET NUMBER: TS-02
 CONTRACT: 2021.07
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Date: 1/14/2021

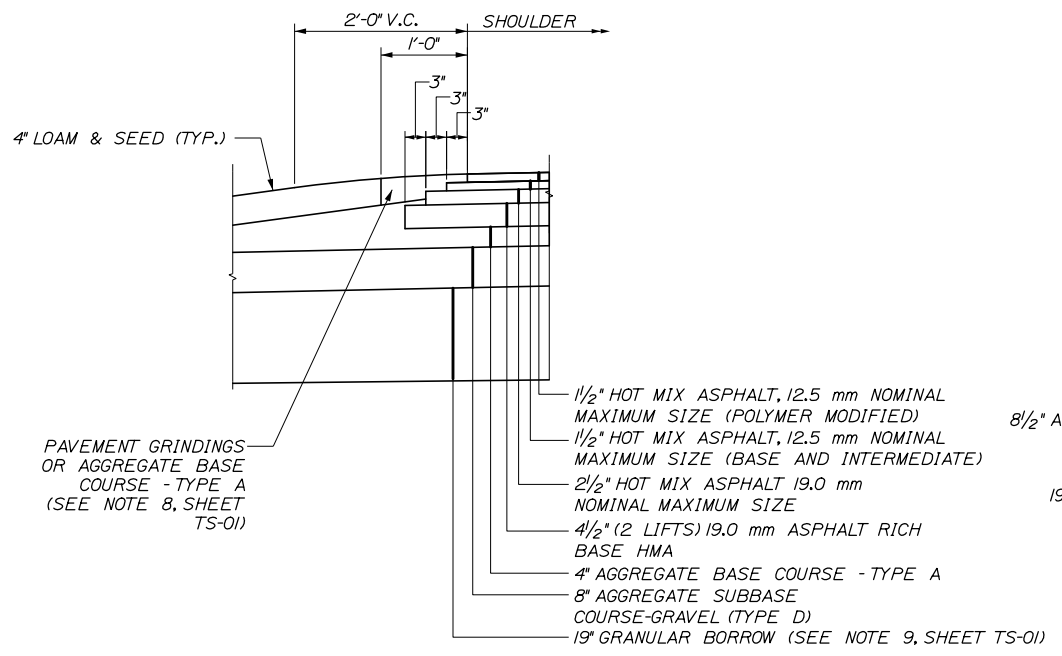


ROUTE 703 VARIABLE DEPTH MILL, SHIM & OVERLAY
STA. 1060+50 TO STA. 1074+20



GUARDRAIL WITH SHOULDER

- 8' SHOULDER LOCATIONS**
 STA. 1062+60 TO STA. 1065+00
 STA. 500+00 TO STA. 500+90
 STA. 600+40 TO STA. 601+90
 RAMP B - STA. 209+10 TO STA. 210+50
 RAMP C - STA. 296+00 TO STA. 296+90
 RAMP D - STA. 406+25 TO STA. 408+50
 RAMP D - STA. 419+50 TO STA. 420+00
 RAMP D - STA. 421+70 TO STA. 422+90
- 4' SHOULDER LOCATIONS**
 STA. 1047+00 TO STA. 1048+50
 STA. 1051+25 TO STA. 1052+50
 RAMP A - STA. 108+40 TO STA. 108+80

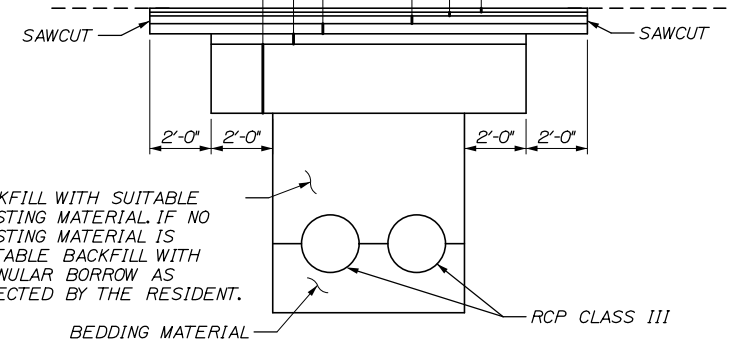
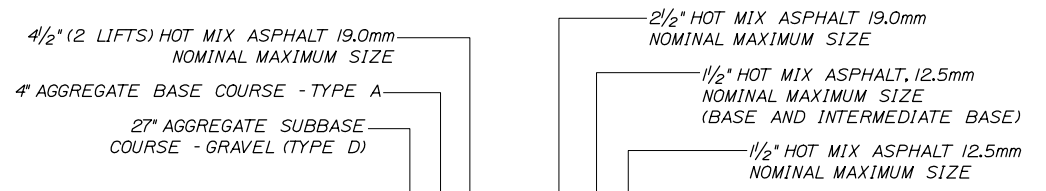


DETAIL C

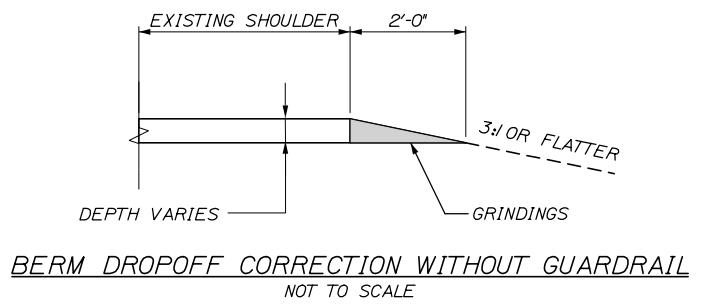
- 1/2" HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (POLYMER MODIFIED)
- 1/2" HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE)
- 2 1/2" HOT MIX ASPHALT 19.0 mm NOMINAL MAXIMUM SIZE
- 8 1/2" AGGREGATE BASE COURSE - TYPE A
- 8" AGGREGATE SUBBASE COURSE - GRAVEL (TYPE D)
- 19" GRANULAR BORROW (SEE NOTE 9, SHEET TS-01)



DETAIL D



ROUTE 703 CULVERT TRENCH DETAIL




BERM DROPOFF CORRECTION WITHOUT GUARDRAIL
NOT TO SCALE

NOTE:
1. SEE SHEETS TS-01 FOR NOTES.

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No.	Revision	By	Date

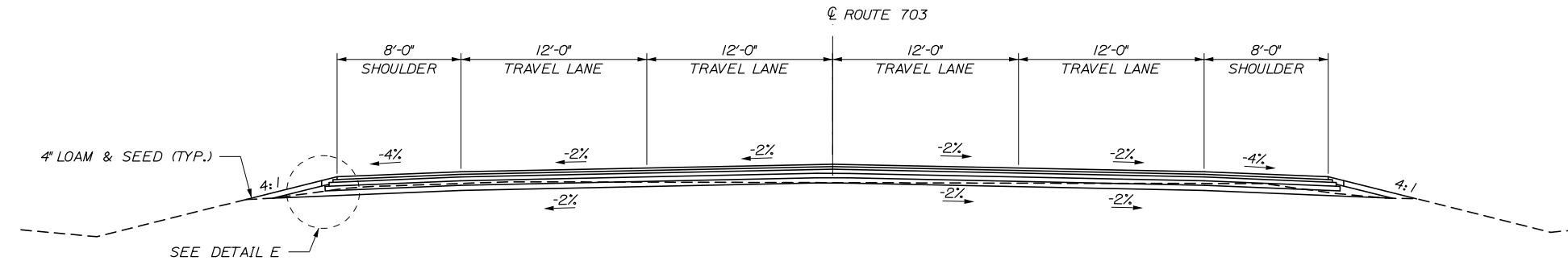
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HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	EDD	09\20	
	Checked	JRH	09\20
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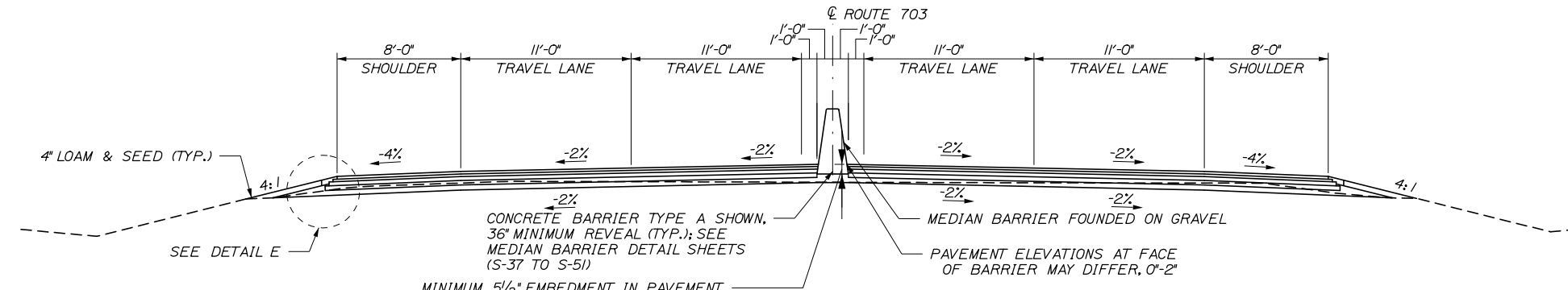

THE GOLD STAR MEMORIAL HIGHWAY
 MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
TYPICAL SECTIONS - ROUTE 703
 SHEET NUMBER: TS-03
 CONTRACT: 2021.07
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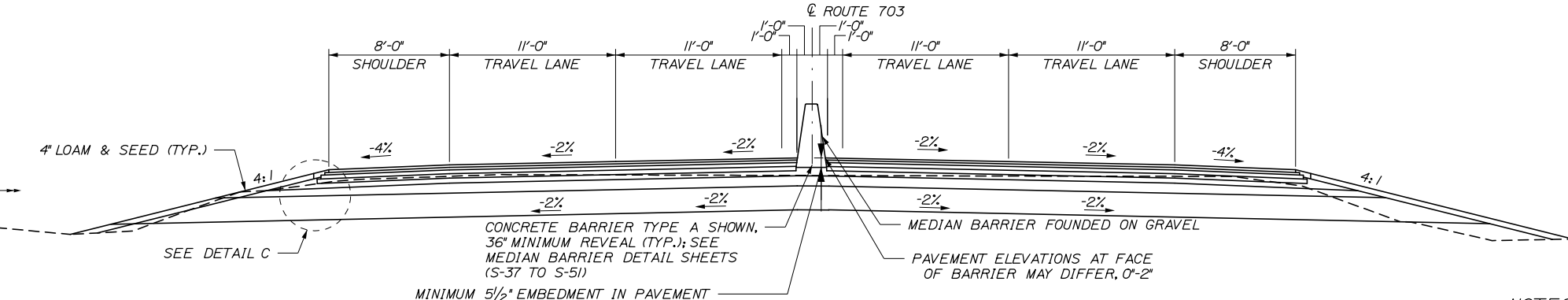
Date: 1/14/2021



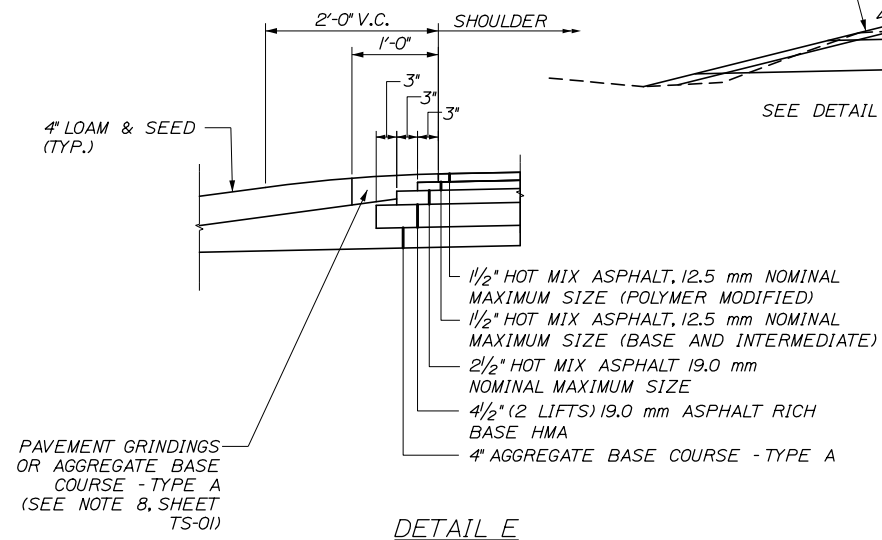
ROUTE 703 PARTIAL DEPTH CONSTRUCTION
 STA. 1046+27 TO STA. 1047+32
 STA. 1051+88 TO STA. 1053+25



ROUTE 703 PARTIAL DEPTH CONSTRUCTION WITH BARRIER
 STA. 1053+25 TO STA. 1059+00



ROUTE 703 FULL DEPTH CONSTRUCTION
 STA. 1047+25 TO STA. 1048+95
 STA. 1051+25 TO STA. 1051+95
 STA. 1059+00 TO STA. 1060+50



DETAIL E

NOTES:

- MILL, SHIM, & OVERLAY DEPTH VARIES. STEP PAVEMENT LIFTS AS NECESSARY TO ACHIEVE DESIGN PROFILE GRADE AND CROSS SLOPE. PLACE AT LEAST 1/2" SHIM COURSE OVER MILLED PAVEMENT FOR SURFACE WEARING COURSE ONLY, ALL OTHER LIFTS OF PAVEMENT REFER TO DETAIL E.
- BERM DROPOFF CORRECTION WILL BE PLACED AT ALL LOCATIONS UNLESS OTHERWISE DIRECTED BY THE RESIDENT.
- BERM DROPOFF CORRECTION OF 3" OR MORE SHALL BE PLACED PRIOR TO SHIFTING TRAFFIC TO THE LANE ADJACENT TO THE SHOULDER REQUIRING CORRECTION.
- FOR ADDITIONAL NOTES SEE SHEET TS-01.
- FOR GEOFOAM DETAILS SEE SHEETS GT-01 AND GT-02.

Filename: 00X_TypSec04.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

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MAINE TURNPIKE

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EXIT 45 INTERCHANGE RECONFIGURATION

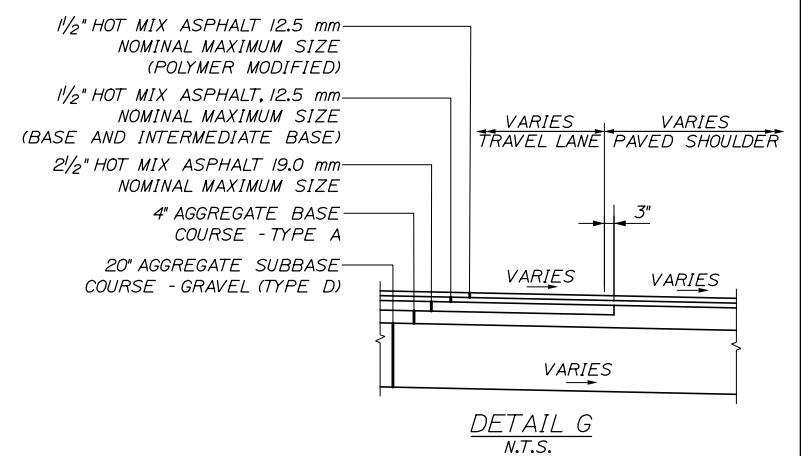
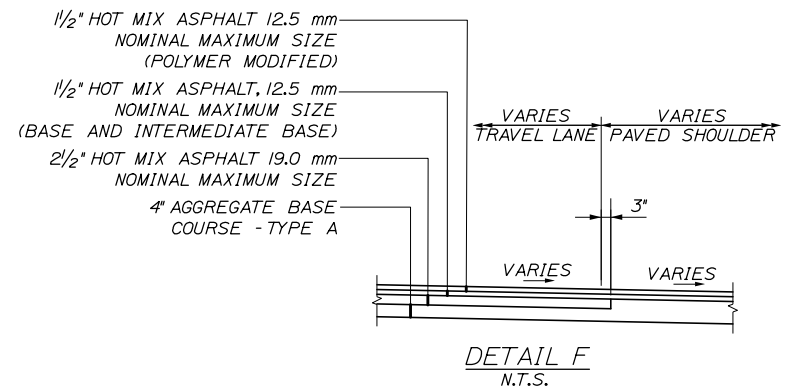
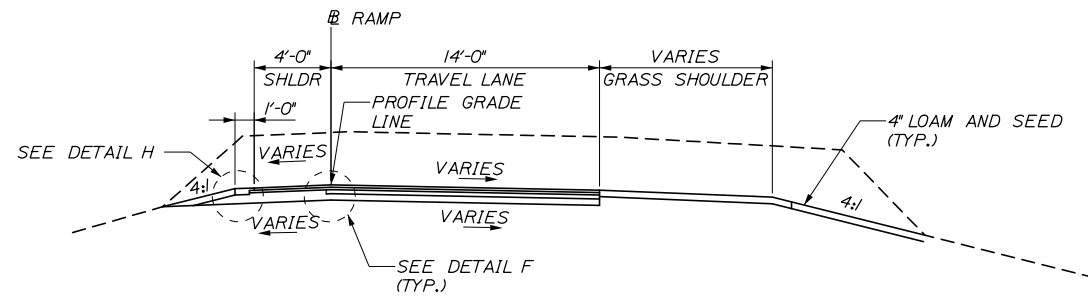
TYPICAL SECTIONS - ROUTE 703

SHEET NUMBER: TS-04

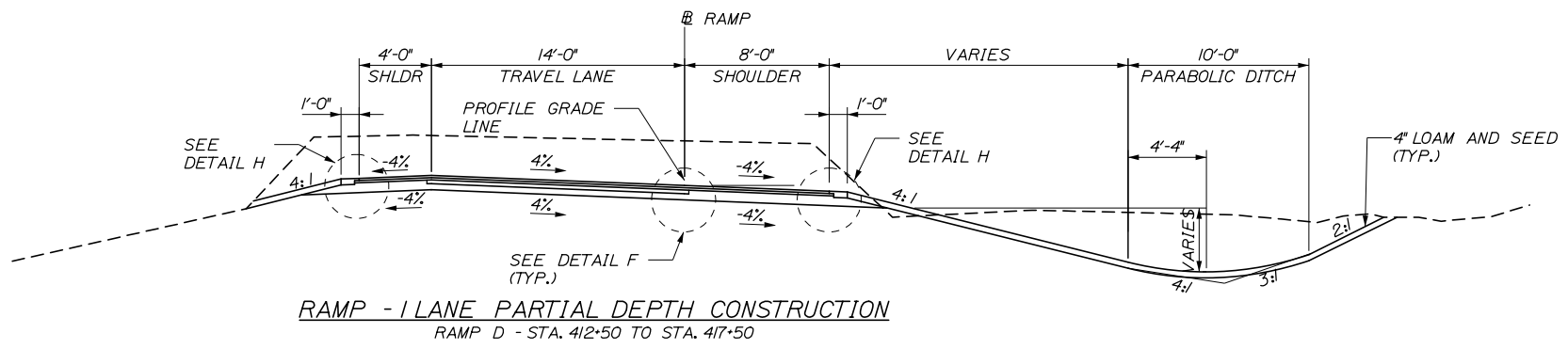
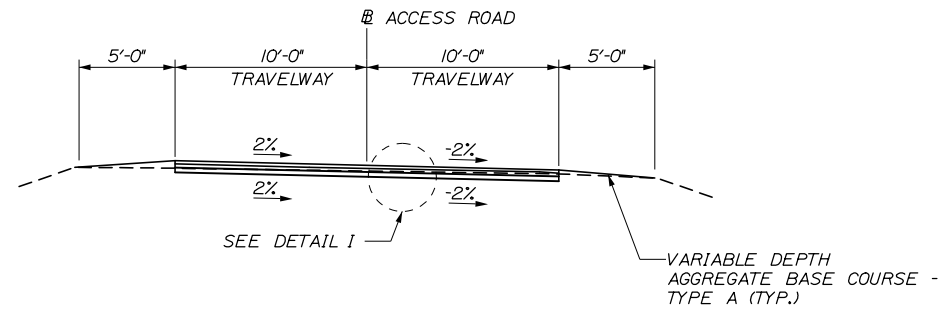
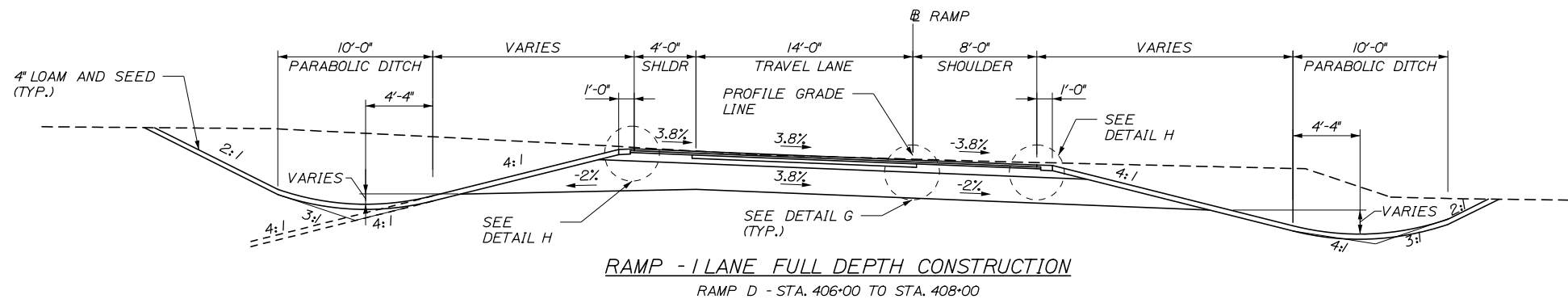
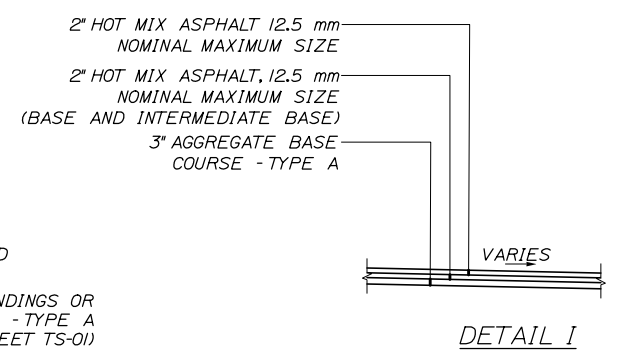
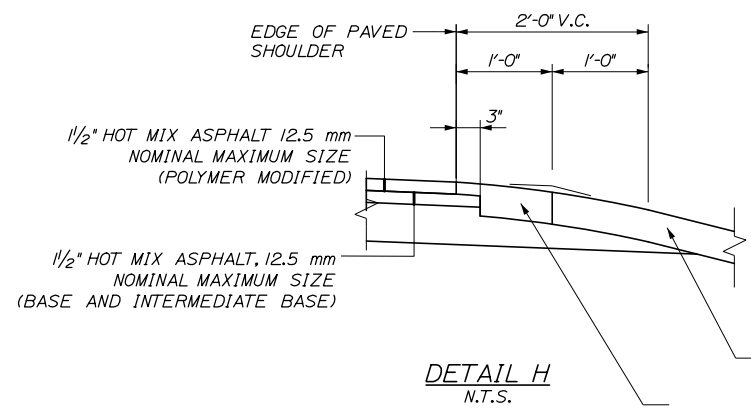
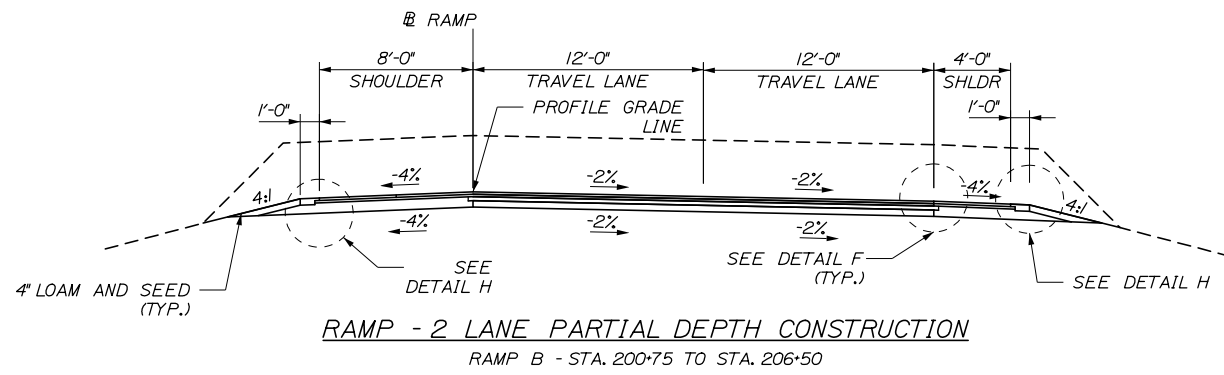
CONTRACT: 2021.07

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Date: 1/14/2021



EVR
 NB ON EVR - STA. 351+00 TO STA. 354+71
 NB OFF EVR - STA. 452+00 TO STA. 454+21



- NOTES:**
1. DUE TO VARYING RAMP ORIENTATION, TYPICAL SECTIONS MAY NEED TO BE MIRRORED WHERE APPLICABLE.
 2. FOR PARTIAL DEPTH RAMP CONSTRUCTION TYPICAL SECTIONS, AGGREGATE SUBBASE COURSE - GRAVEL WAS PLACED DURING MTA CONTRACT 2019.03
 3. FOR ADDITIONAL NOTES SEE SHEET TS-01.

Scale: NOT TO SCALE

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MAINE TURNPIKE

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EXIT 45 INTERCHANGE RECONFIGURATION

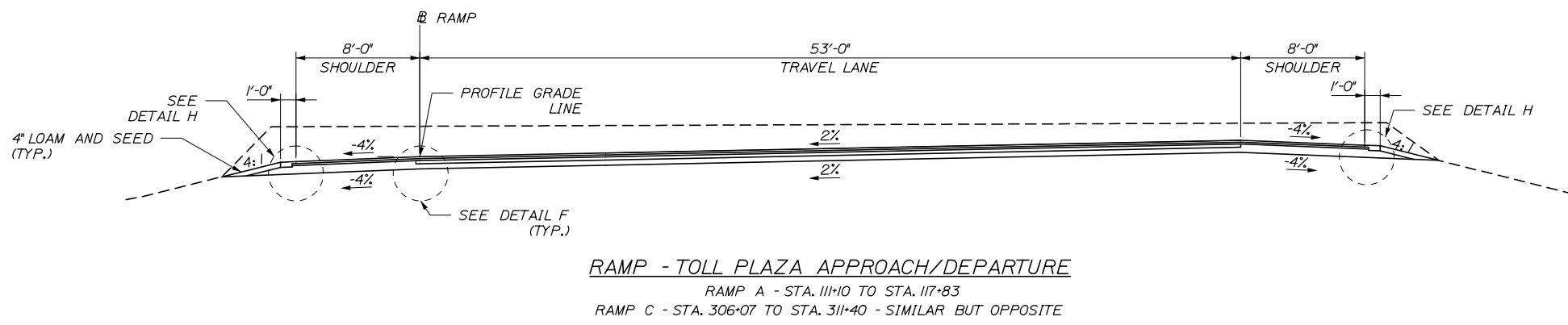
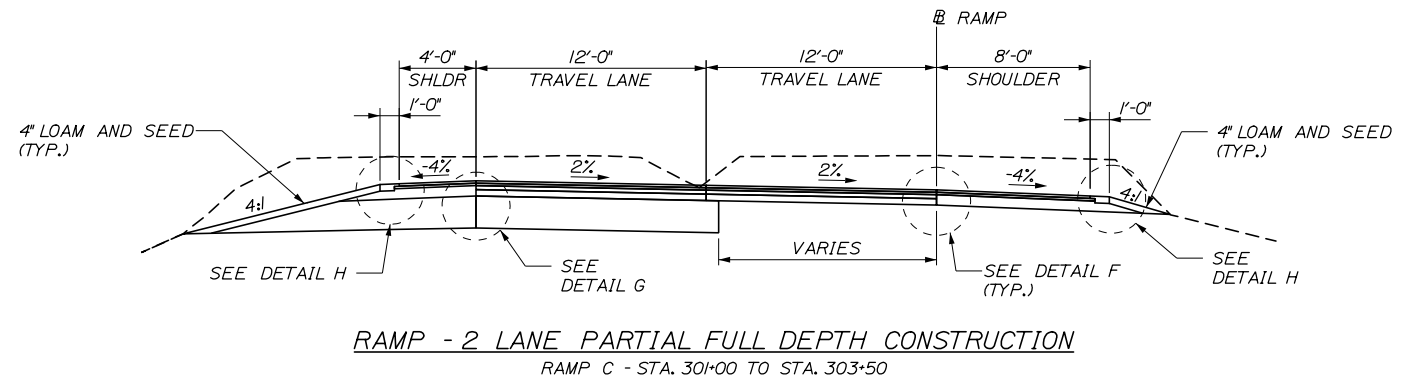
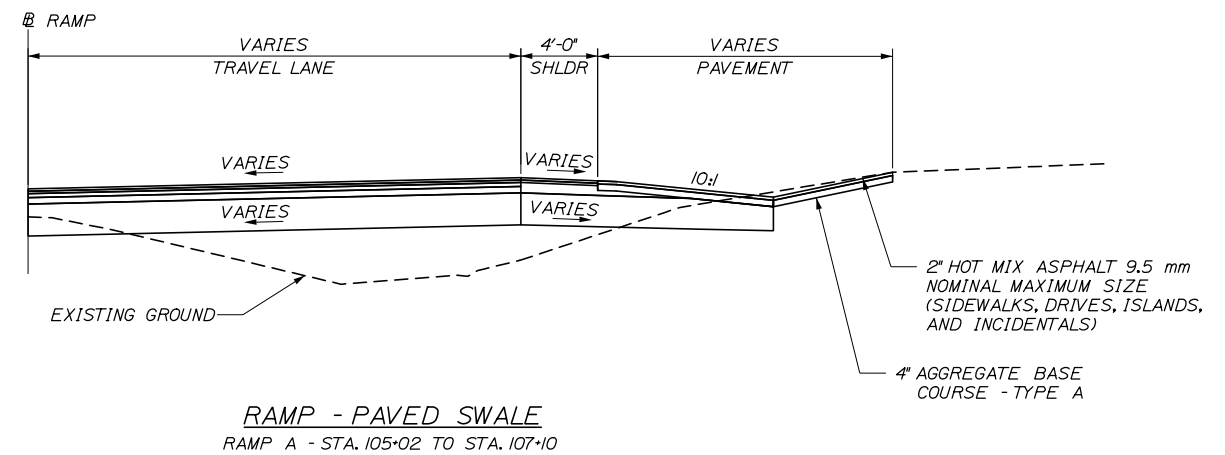
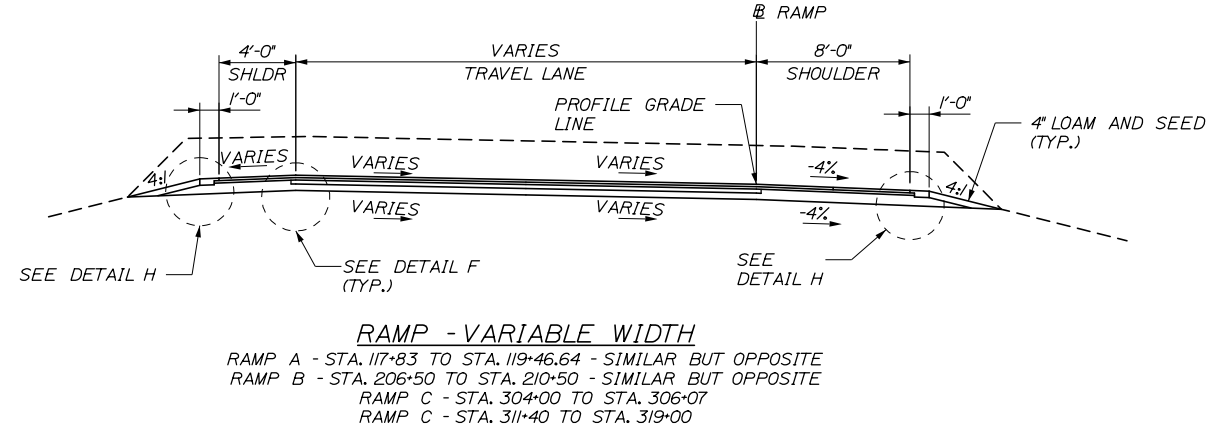
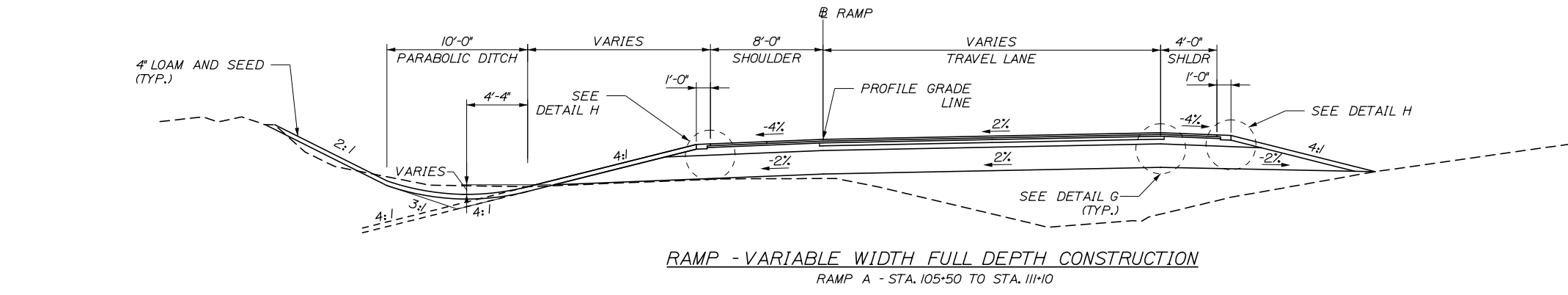
TYPICAL SECTIONS - RAMP

SHEET NUMBER: TS-05

CONTRACT: 2021.07

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Date: 1/14/2021



- NOTES:**
1. DUE TO VARYING RAMP ORIENTATION, TYPICAL SECTIONS MAY NEED TO BE MIRRORED WHERE APPLICABLE.
 2. FROM STA. 315+50 TO 316+90, FULL DEPTH CONSTRUCTION IS NECESSARY, THEREFORE, DETAIL G SHALL BE USED IN PLACE OF DETAIL F.
 3. STATION 296+00 TO 302+30 SHALL BE CONSTRUCTED USING THE ROUTE 703 PAVEMENT STRUCTURE (SEE DETAIL C, SHEET TS-03)
 4. FOR PARTIAL DEPTH RAMP CONSTRUCTION TYPICAL SECTIONS, AGGREGATE SUBBASE COURSE - GRAVEL WAS PLACED DURING MTA CONTRACT 2019.03
 5. FOR ADDITIONAL NOTES SEE SHEET TS-01.

Scale: NOT TO SCALE

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

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EXIT 45 INTERCHANGE RECONFIGURATION

TYPICAL SECTIONS - RAMP

SHEET NUMBER: TS-06

CONTRACT: 2021.07

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GENERAL MAINTENANCE OF TRAFFIC NOTES

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION 2014 STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL AND SPECIAL PROVISIONS.
2. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE, ROUTE 703, AND RAMP TRAFFIC CONTROL DURING CONSTRUCTION. SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
4. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING EXISTING PAVEMENT MARKING.
5. TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.78 - TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW.
6. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.34 - WORK ZONE CRASH CUSHION - TL-3.
7. TAPER RATE FOR TEMPORARY CONCRETE BARRIER SHALL BE A MINIMUM OF 8:1 UNLESS MORE SPACE IS AVAILABLE THEN THE BARRIER SHALL BE TAPERED AT 15:1 OR 100' WHICHEVER IS LONGEST. THE TAPERED BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO THE MAINE TURNPIKE SHOULDERS OR LANES. THE BARRIER SHALL TERMINATE AT A LOCATION WHERE A CRASH CUSHION CAN BE INSTALLED A MINIMUM OF 3' FROM THE TRAVEL LANE.
8. PAVEMENT STRIPING OF THE TAPER SHALL PROVIDE A MINIMUM OF 250' BUFFER TO WHERE THE BARRIER BECOMES PARALLEL TO THE TRAVEL LANE.
9. STANDARD SINGLE LANE CLOSURES FOR LANES 1, 2 AND 3 SHALL BE USED FOR DRAINAGE WORK, GUARDRAIL WORK, MEDIAN WORK, EQUIPMENT MOVES, BERM DROP OFF CORRECTION WORK, PAINTING OF SOLID LANE LINES AND ALL OTHER WORK NOT REQUIRING ENCROACHMENT INTO THE ADJACENT LANE.
10. PRIOR TO SHIFTING TRAFFIC TOWARDS THE MEDIAN, EXISTING CATCH BASIN GRATES SHALL BE SEALED. THE FRAME SHALL BE CLEANED TO ACCEPT A BEAD OF ELASTOMERIC SEALER. ELASTOMERIC SEALER SHALL BE SIKAFLEX 1A AS MANUFACTURED BY SIKA OR APPROVED EQUAL SEALER SHALL BE PLACED IN A CONTINUOUS BEAD OVER THE HORIZONTAL SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. EXISTING GRATES SHALL BE REINSTALLED AND ALLOWED TO SET FOR AN MINIMUM OF 1-1/2 HOURS BEFORE RECEIVING TRAFFIC LOAD. WORK SHALL BE PAID FOR UNDER ITEM 604.40 - SECURE CATCH BASIN GRATE.
11. PRIOR TO SHIFTING TRAFFIC TOWARDS THE MEDIAN, SHOULDERS SHALL BE INSPECTED AND BERM CORRECTION SHALL BE MADE PER DETAIL ON SHEET TS-03, AS DIRECTED BY THE RESIDENT. PAYMENT FOR BERM CORRECTION SHALL BE MADE UNDER ITEM 470.08 - BERM DROP OFF CORRECTION.
12. CONTRACTOR SHALL MAINTAIN FLOW IN ALL EXISTING DRAINAGE STRUCTURES AT ALL TIMES UNTIL THE PROPOSED SYSTEM HAS BEEN INSTALLED.
13. ALL TEMPORARY CONSTRUCTION BARRIER SHALL HAVE DRAINAGE SLOTS TO ALLOW FLOW OF WATER.
14. ALL WORK ZONE DEVICES MANUFACTURED AFTER DECEMBER 31, 2019 SHALL MEET MASH REQUIREMENTS.

MOT SIGN NOTES

1. ALL PROPOSED CONSTRUCTION SIGNS ON MAINLINE AND ROUTE 703 WILL BE PLACED ON BOTH SIDES OF THE ROAD UNLESS OTHERWISE SHOWN ON THE PLANS.
2. NO SIGNS ON EASELS SHALL BE PLACED ON 4 FT. SHOULDERS WITH GUARDRAIL. SIGNS REQUIRED AT THESE LOCATIONS SHALL BE PLACED ON TALLER EASELS ON THE MEDIAN SIDE OF THE GUARDRAIL.
3. ALL TEMPORARY LANE CLOSURE SIGNS ARE TO BE MOUNTED ON EASELS.
4. ERECT CS-3 AND W3-4 SIGNS IMMEDIATELY PRIOR TO SCHEDULED STOPPAGES FOR EQUIPMENT MOVES AND REMOVE THE CS-3 AND W3-4 SIGNS IMMEDIATELY AFTER THE SCHEDULED STOPPAGES ARE COMPLETE.
5. ALL MOT SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE RESIDENT.
6. EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WORK ZONE SIGNS SHALL BE COVERED.
7. CONTRACTOR TO COORDINATE WITH ADJACENT CONTRACTS RESIDENT ENGINEERS TO AVOID HAVING OVERLAPPING CONSTRUCTION SIGNS.
8. SPEED LIMIT, STOP, EXIT AND YIELD SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT TO THE BOTTOM OF SIGN.

TEMPORARY RUMBLE STRIP NOTES

1. IF TEMPORARY RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:
 - * ADJACENT TO THE WORK ZONE (1 UNIT)
 - * UPSTREAM FROM THE TAPER FOR THE WORKZONE (2 UNITS)
 - * BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)

W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION. ONLY ONE SET OF W8-24a SIGNS ARE REQUIRED FOR ANY OF THE ABOVE CONFIGURATIONS.
2. RUMBLE STRIPS MAY BE PLACED UPSTREAM OF THE TAPER BETWEEN THE W3-5 SIGNS AND THE W4-2 SIGNS. IF RUMBLE STRIPS ARE INSTALLED PRIOR TO TAPER, W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE W8-24a SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS.

ABBREVIATIONS FOR ALL M.O.T. PLANS

BWLL = BROKEN WHITE LANE LINE
 SWEL = SOLID WHITE EDGE LINE
 SYEL = SOLID YELLOW EDGE LINE
 TBWLL = TEMPORARY BROKEN WHITE LANE LINE
 TDWEL = TEMPORARY DOTTED WHITE EDGE LINE
 TSWEL = TEMPORARY SOLID WHITE EDGE LINE
 TSWLL = TEMPORARY SOLID WHITE LANE LINE
 TSYCL = TEMPORARY SOLID YELLOW CENTER LINE
 TSYEL = TEMPORARY SOLID YELLOW EDGE LINE

Date: 1/14/2021

Filename: 0XX_MOT_General_Notes.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:						
HNTB						
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.						
	By	Date		By	Date	
	Designed	TRC	09\20	Checked	JRH	09\20
	Drawn	LAD	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

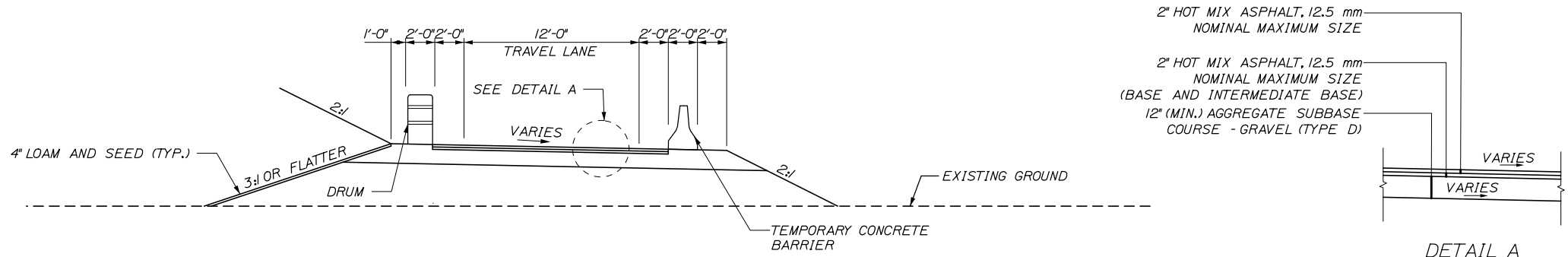
EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
GENERAL NOTES

SHEET NUMBER: MT-01

CONTRACT: 2021.07

15 OF 431

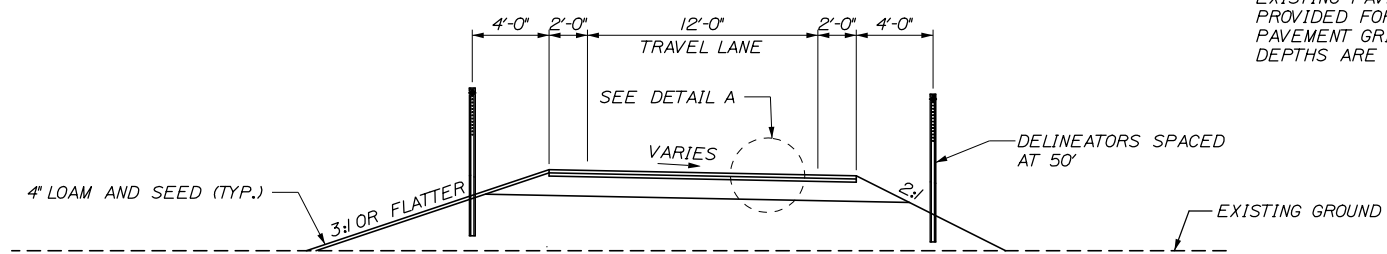
Date: 1/14/2021



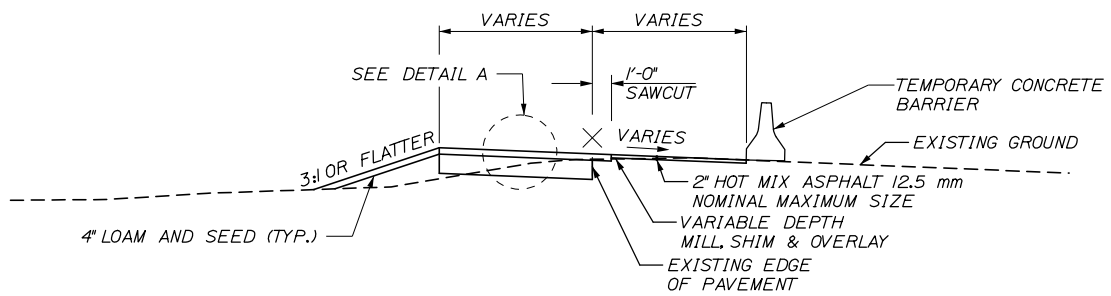
TEMPORARY RAMP TYPICAL - THROUGH PRELOAD EMBANKMENT

NOTES:

1. TYPICAL SHOWS DRUM AND TEMPORARY CONCRETE BARRIER TO SHOW ASSOCIATED REQUIRED DIMENSIONS AND SLOPES, NOT NECESSARILY THE TYPICAL CONDITION.
2. TEMPORARY RAMPS CONSTRUCTED OVER WETLANDS SHALL HAVE ITEM 620.60 - SEPARATION GEOTEXTILE PLACED ON EXISTING GROUND PRIOR TO PLACEMENT OF ANY FILL.
3. ALL LOCATIONS WHERE A PAVED TEMPORARY RAMP IS ON EXISTING PAVEMENT A 3:1 PAVED SAFETY EDGE SHALL BE PROVIDED FOR SHOULDER DEPTHS LESS THAN 6 INCHES. PAVEMENT GRINDINGS MAY BE USED WHERE SHOULDER DEPTHS ARE GREATER THAN 6 INCHES.



TEMPORARY RAMP TYPICAL



TEMPORARY RAMP WIDENING TYPICAL

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

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Designed	TRC	09\20	Checked	JRH	09\20
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 TYPICAL SECTIONS

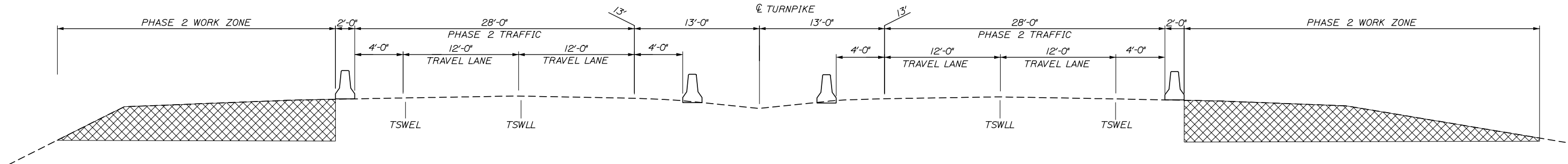
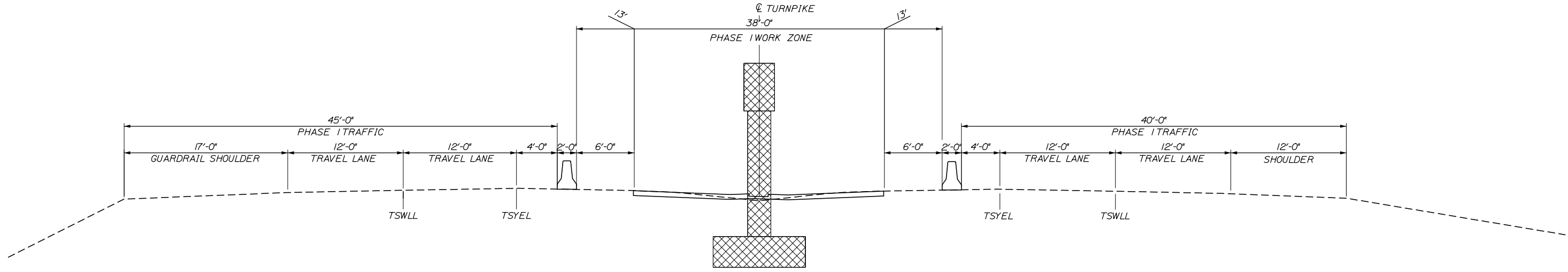
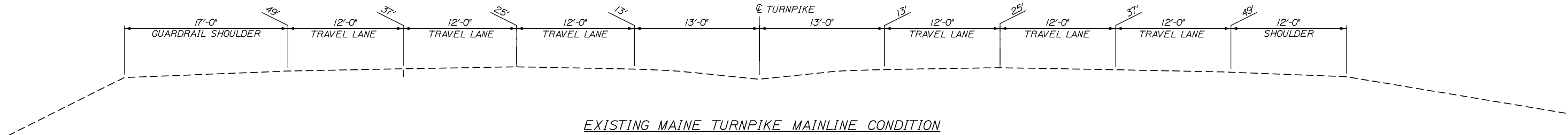
SHEET NUMBER: MT-02
 CONTRACT: 2021.07
 16 OF 431

Filename: 0XX_M0TypicalSec_01.dgn

NOTES:

1. MTA WILL BE PLOWING SNOW OVER THE BARRIER INTO THE MEDIAN.
2. ALL DRAINAGE INFRASTRUCTURE SET IN THE MEDIAN SHALL BE SET SO THE GRATE ELEVATIONS ACCOMMODATE DRAINAGE UNTIL THE FINAL PAVED CONDITION. GRATES MAY NEED TO BE RESET FOR FINAL CONDITIONS.
3. DURING WINTER MONTHS THE INSIDE SHOULDER SHALL BE A MINIMUM OF 4'-0" AND THE OUTSIDE SHOULDER SHALL BE A MINIMUM OF 8'-0".

Date: 1/14/2021





LEGEND

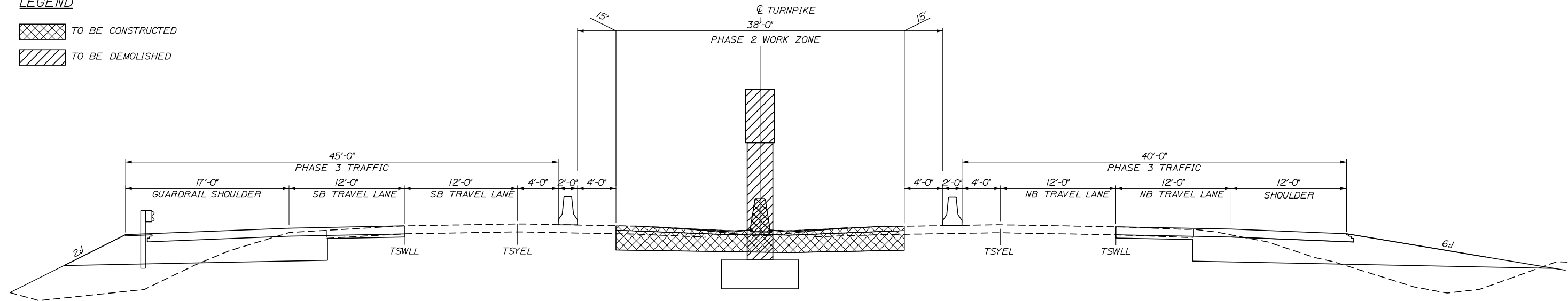
TO BE CONSTRUCTED

Filename: 0XX_M01TypicalSec_02.dgn

Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION MAINTENANCE OF TRAFFIC TYPICAL SECTIONS											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision					By	Date									CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.	
No.	Revision	By	Date																

LEGEND

-  TO BE CONSTRUCTED
-  TO BE DEMOLISHED



PHASE 3: MEDIAN CONSTRUCTION
 (EXISTING PIER DEMOLITION,
 MEDIAN DRAINAGE AND CONSTRUCTION)


Date: 1/14/2021

Filename: OXX_M01TypicalSec_03.dgn

Scale:			
<i>NOT TO SCALE</i>			
No.	Revision	By	Date

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HNTB					
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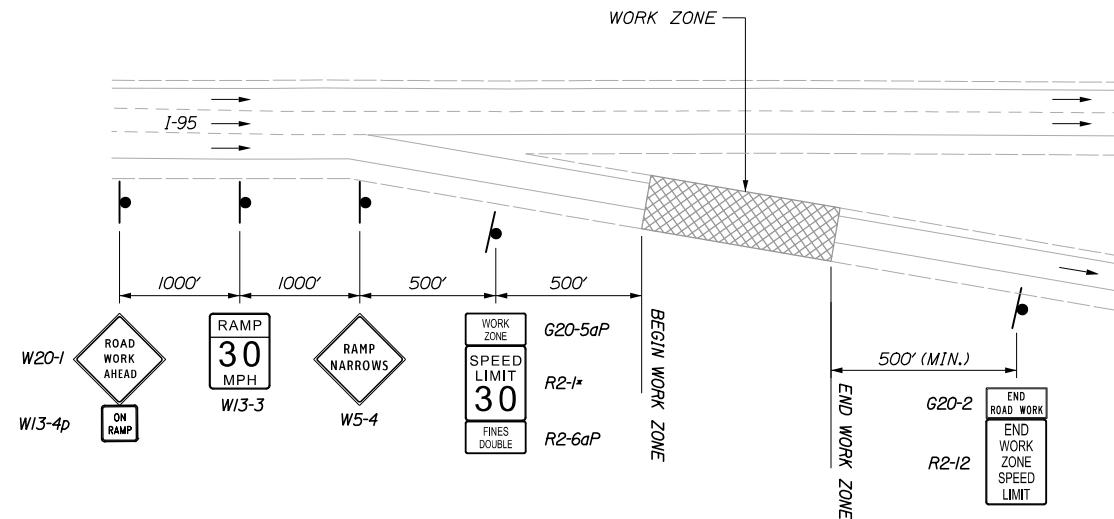
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 TYPICAL SECTIONS**

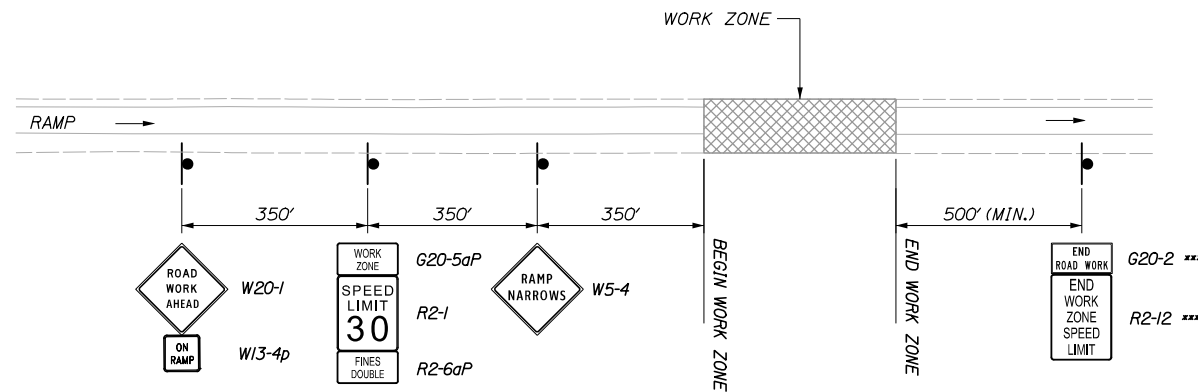
SHEET NUMBER: MT-04
 CONTRACT: 2021.07
 18 OF 431

Date: 1/14/2021



OFF RAMP ADVANCED SIGNING

* RAMPS A/B AND B SHALL USE A R2-1 (25MPH)



ON RAMP ADVANCED SIGNING

NOTES:

- 1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
- 2. ALL SIGNS SHALL BE MOUNTED ON NCHRP 350 APPROVED POSTS.

- ** SIGN PLACEMENT FOR ON RAMP A/B IS ALSO FOR RAMP C WORK
- *** WHEN SIGNS LOCATED ON MAINLINE, SIGNS ARE ONLY REQUIRED IF NO OTHER MAINLINE TRAFFIC CONTROL IS IN PLACE FROM ADJACENT PROJECTS

Filename: 0XX_MOTAdvancedSignage.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
ADVANCED SIGNING DETAIL**

SHEET NUMBER: MT-05
CONTRACT: 2021.07
19 OF 431

PCMS MESSAGES

ALL PCMS (1 WEEK PRIOR TO CLOSURE)

EXIT 45
RAMP TO
CLOSE

SCREEN 1

XX/XX
TO
XX/XX

SCREEN 2

PCMS #1
EXIT 45
RAMP
CLOSED

SCREEN 1

FOR MALL
AREA USE
EXIT 42

SCREEN 2

FOR RTE
1 USE
EXIT 44

SCREEN 3

PCMS #2, 3
EXIT 45
RAMP
CLOSED

SCREEN 1

USE
EXIT
42

SCREEN 2

PCMS #4
EXIT 45
RAMP
CLOSED

SCREEN 1

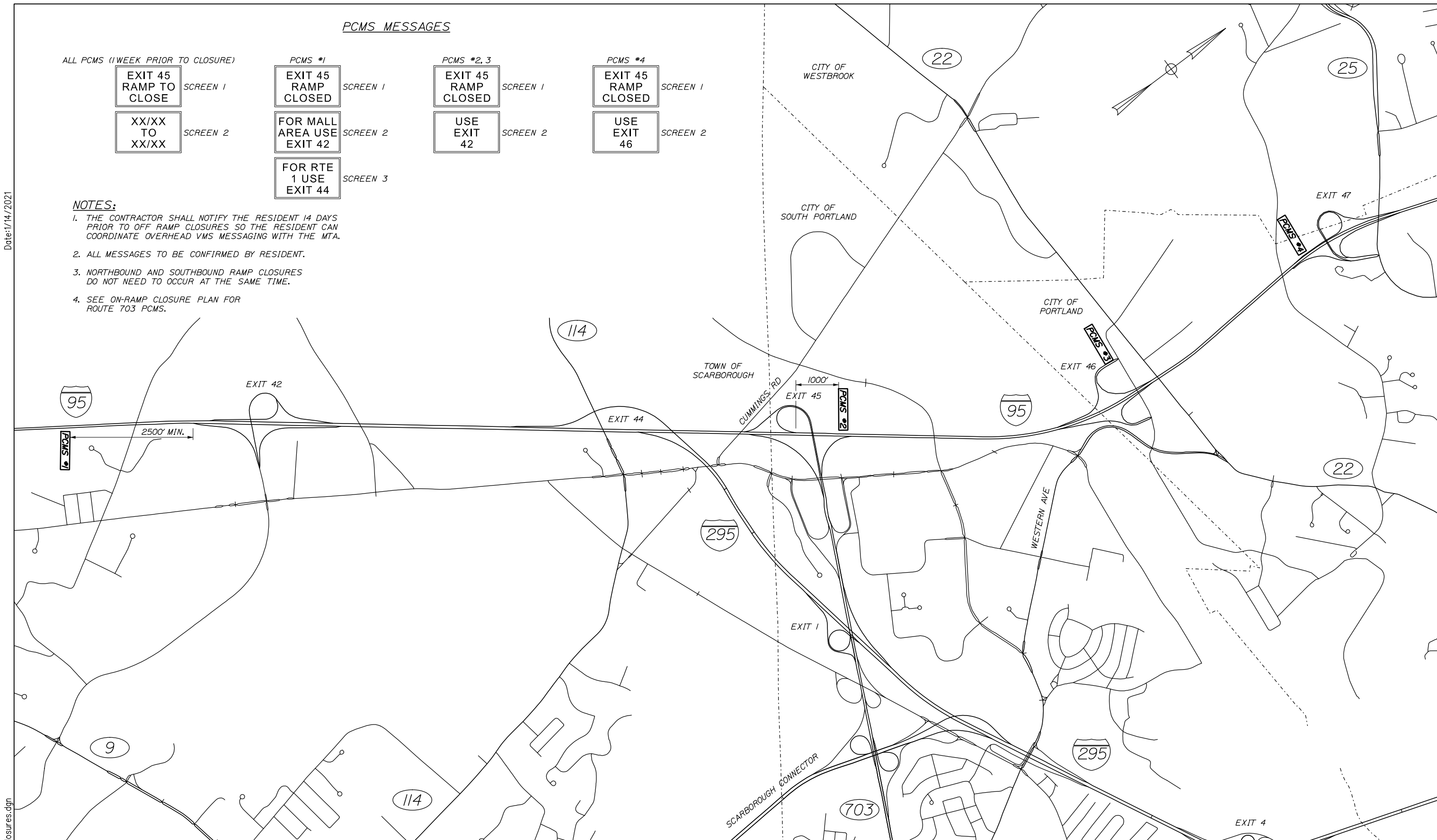
USE
EXIT
46

SCREEN 2

NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 14 DAYS PRIOR TO OFF RAMP CLOSURES SO THE RESIDENT CAN COORDINATE OVERHEAD VMS MESSAGING WITH THE MTA.
2. ALL MESSAGES TO BE CONFIRMED BY RESIDENT.
3. NORTHBOUND AND SOUTHBOUND RAMP CLOSURES DO NOT NEED TO OCCUR AT THE SAME TIME.
4. SEE ON-RAMP CLOSURE PLAN FOR ROUTE 703 PCMS.

Date: 1/14/2021



Scale: 1000 0 1000 2000
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

MAINTENANCE OF TRAFFIC OFF RAMP CLOSURE PLAN

SHEET NUMBER: MT-06

CONTRACT: 2021.07

20 OF 431

Filename: OXX_MOTOffRampClosures.dgn

PCMS MESSAGES

ALL PCMS (1 WEEK PRIOR TO CLOSURE)

**I-95 XX
EXIT 45
TO CLOSED** SCREEN 1
**XX/XX
TO
XX/XX** SCREEN 2

PCMS #1, 2, 3 (SB ONLY)

**I-95 SB
EXIT 45
CLOSED** SCREEN 1
**USE
MAINE
MALL RD** SCREEN 2
**SOUTH
TO EXIT
42** SCREEN 3

PCMS #1, 2, 3 (NB ONLY)

**I-95 NB
EXIT 45
CLOSED** SCREEN 1
**USE
MAINE
MALL RD** SCREEN 2
**NORTH
TO EXIT
46** SCREEN 3

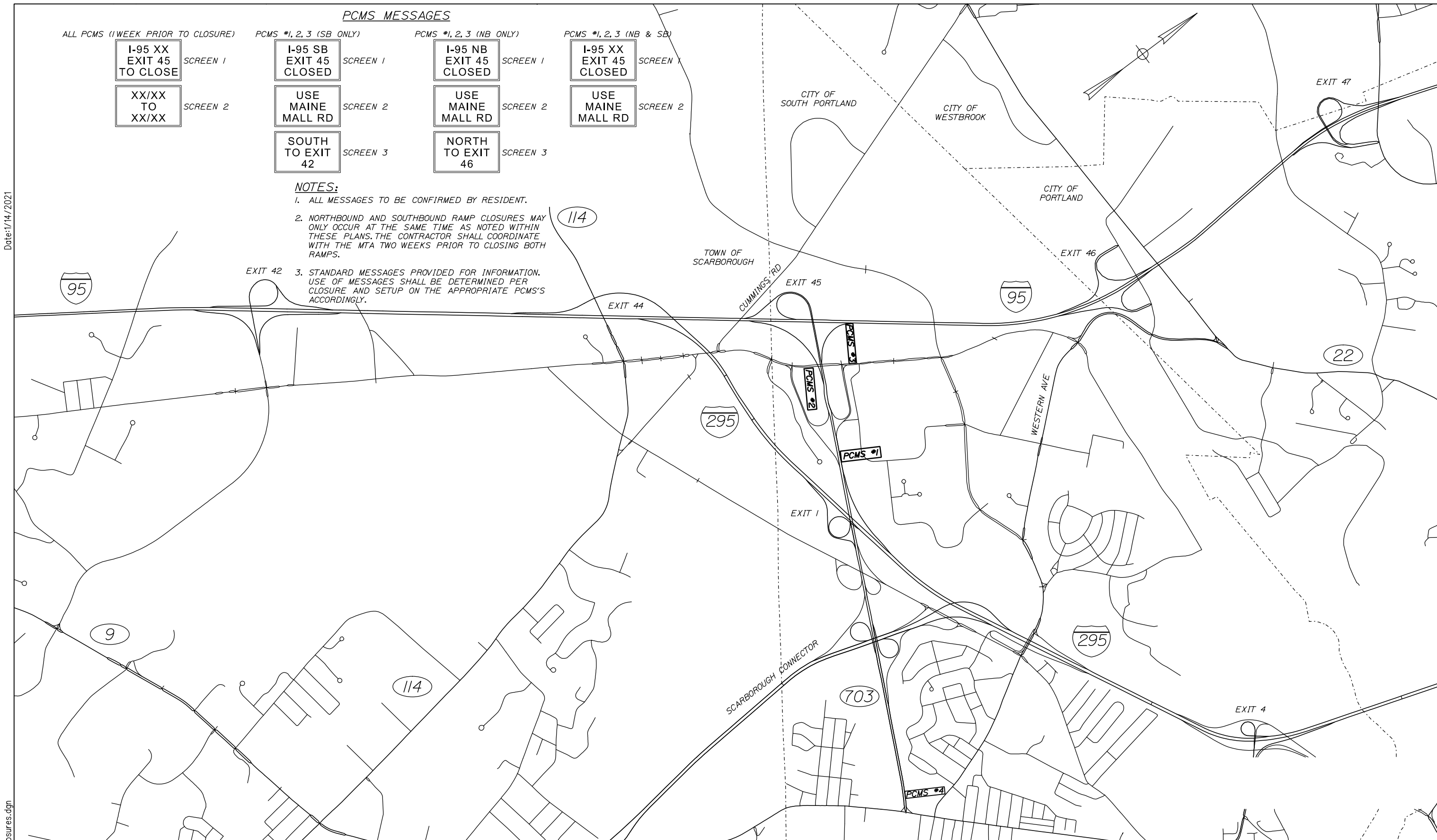
PCMS #1, 2, 3 (NB & SB)

**I-95 XX
EXIT 45
CLOSED** SCREEN 1
**USE
MAINE
MALL RD** SCREEN 2

NOTES:

- ALL MESSAGES TO BE CONFIRMED BY RESIDENT.
- NORTHBOUND AND SOUTHBOUND RAMP CLOSURES MAY ONLY OCCUR AT THE SAME TIME AS NOTED WITHIN THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE MTA TWO WEEKS PRIOR TO CLOSING BOTH RAMPS.
- STANDARD MESSAGES PROVIDED FOR INFORMATION. USE OF MESSAGES SHALL BE DETERMINED PER CLOSURE AND SETUP ON THE APPROPRIATE PCMS'S ACCORDINGLY.

Date: 1/14/2021



Scale: 1000 0 1000 2000
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date
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Drawn	LAD	09\20	In Charge of	RAL 09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

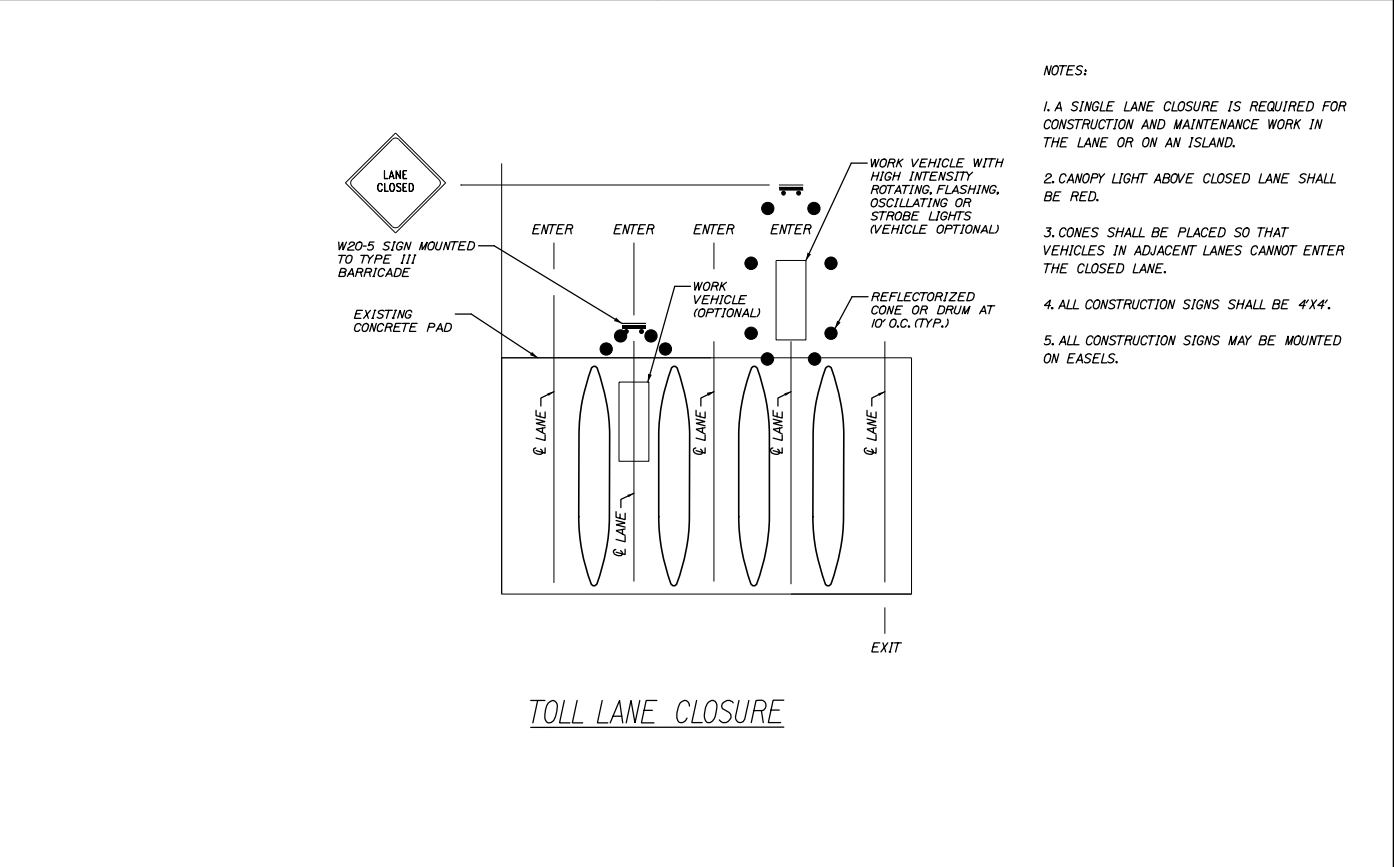
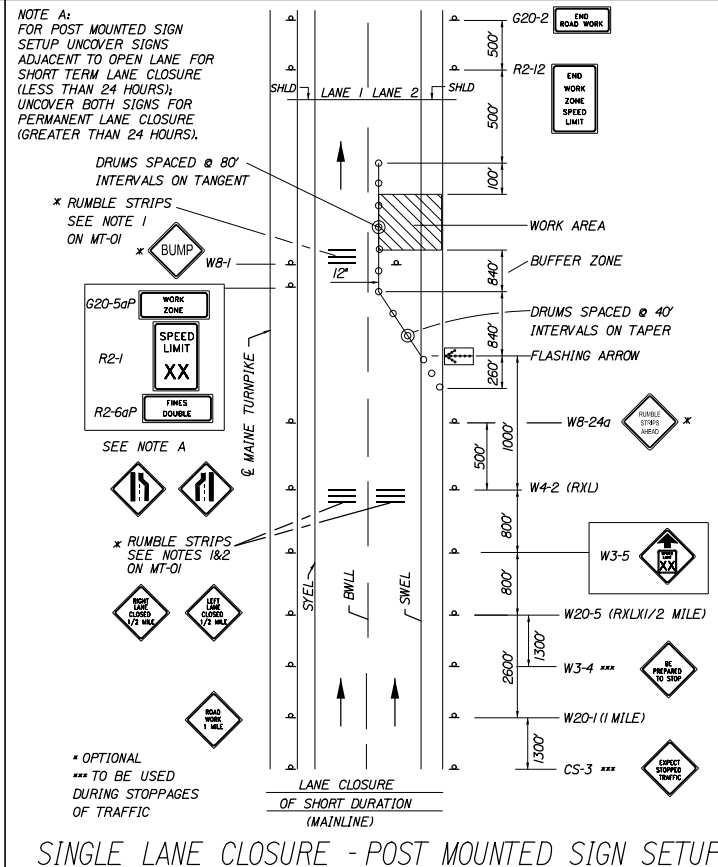
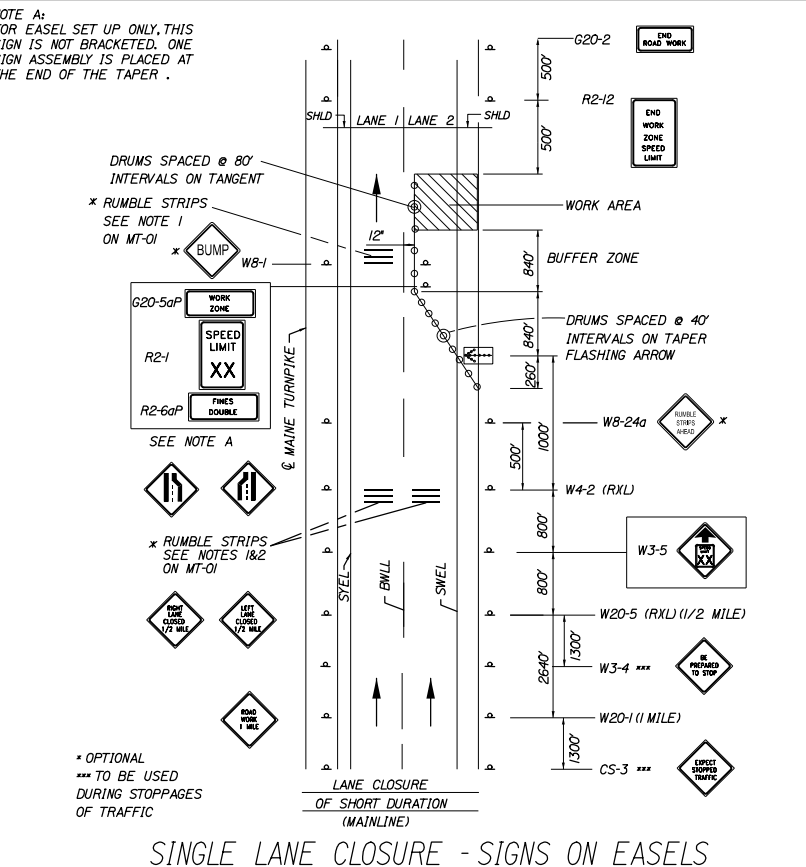
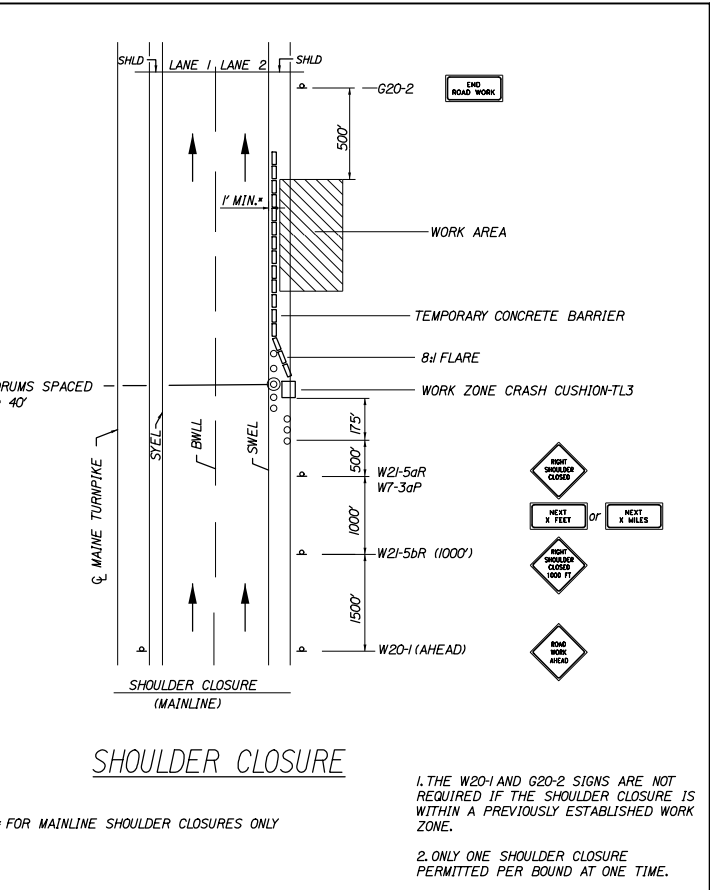
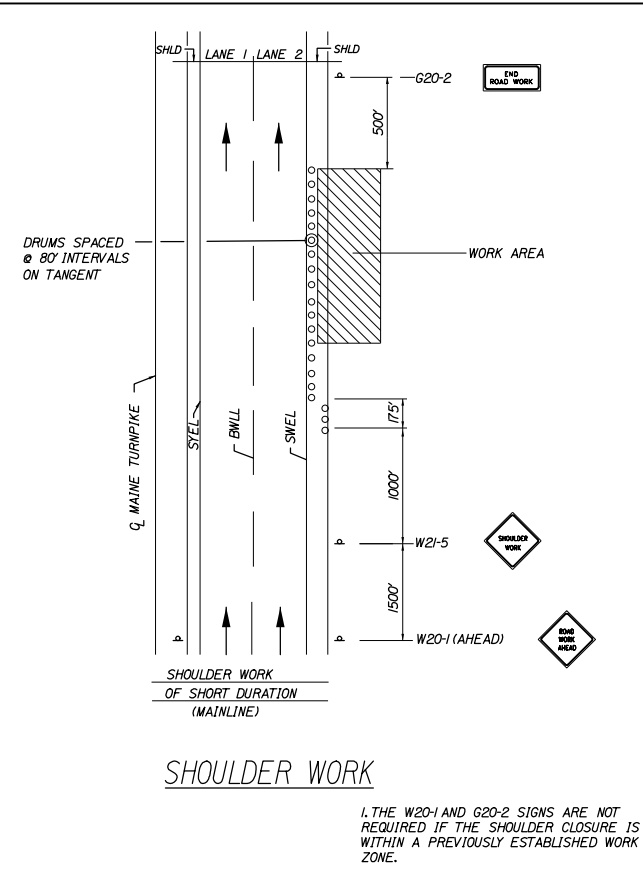
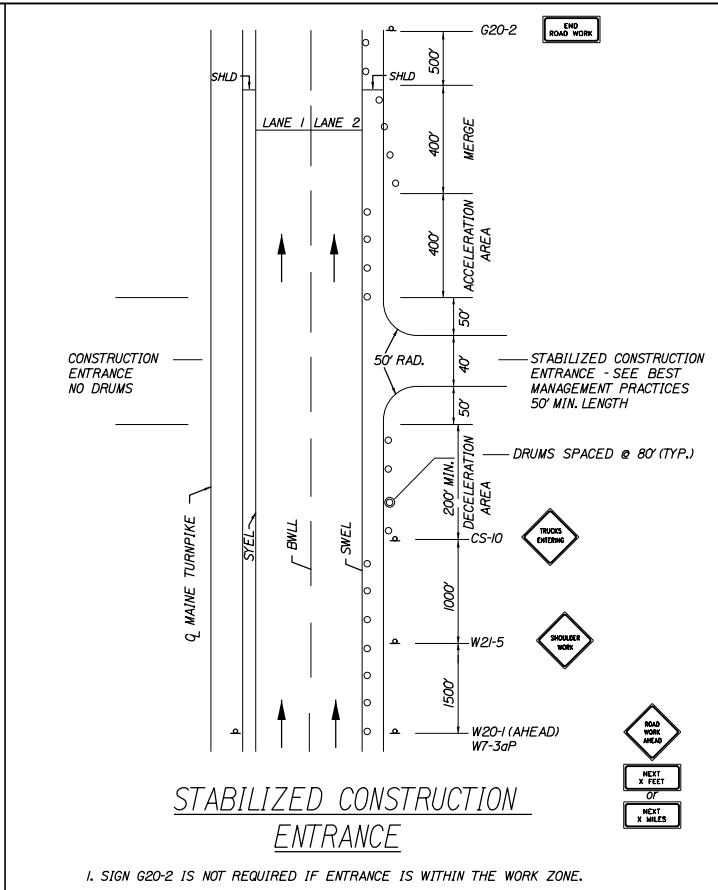
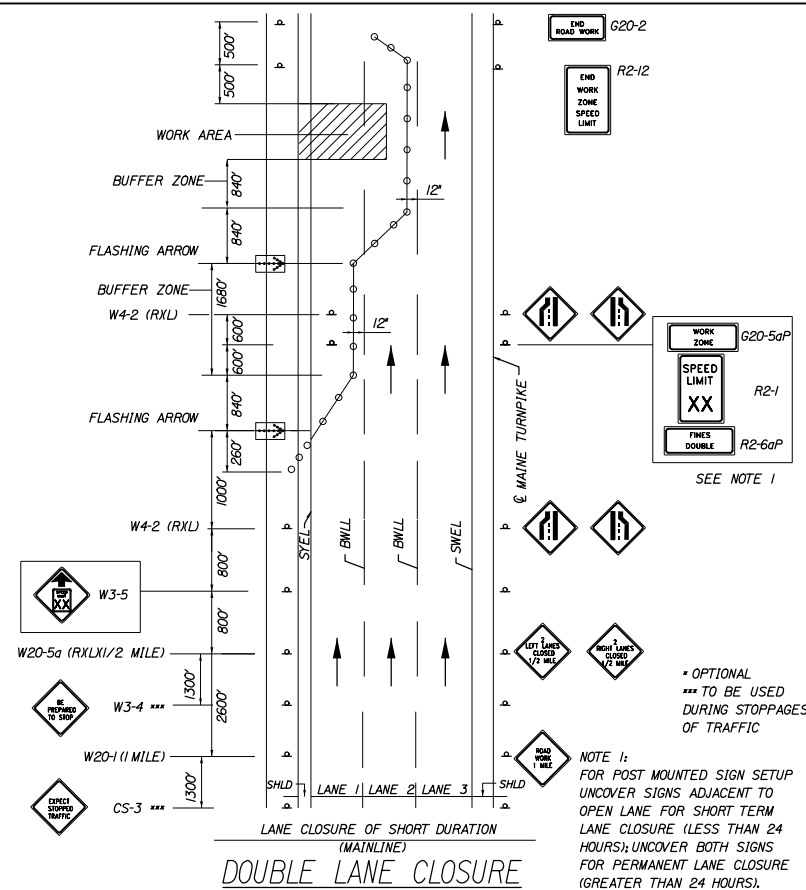
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC ON RAMP CLOSURE PLAN

SHEET NUMBER: MT-07
CONTRACT: 2021.07
21 OF 431

Filename: OXX_MOTOnRampClosures.dgn

Date: 1/14/2021



Filename: 0XX_M01TypicalDetail.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION MAINTENANCE OF TRAFFIC DETAILS I

SHEET NUMBER: MT-08

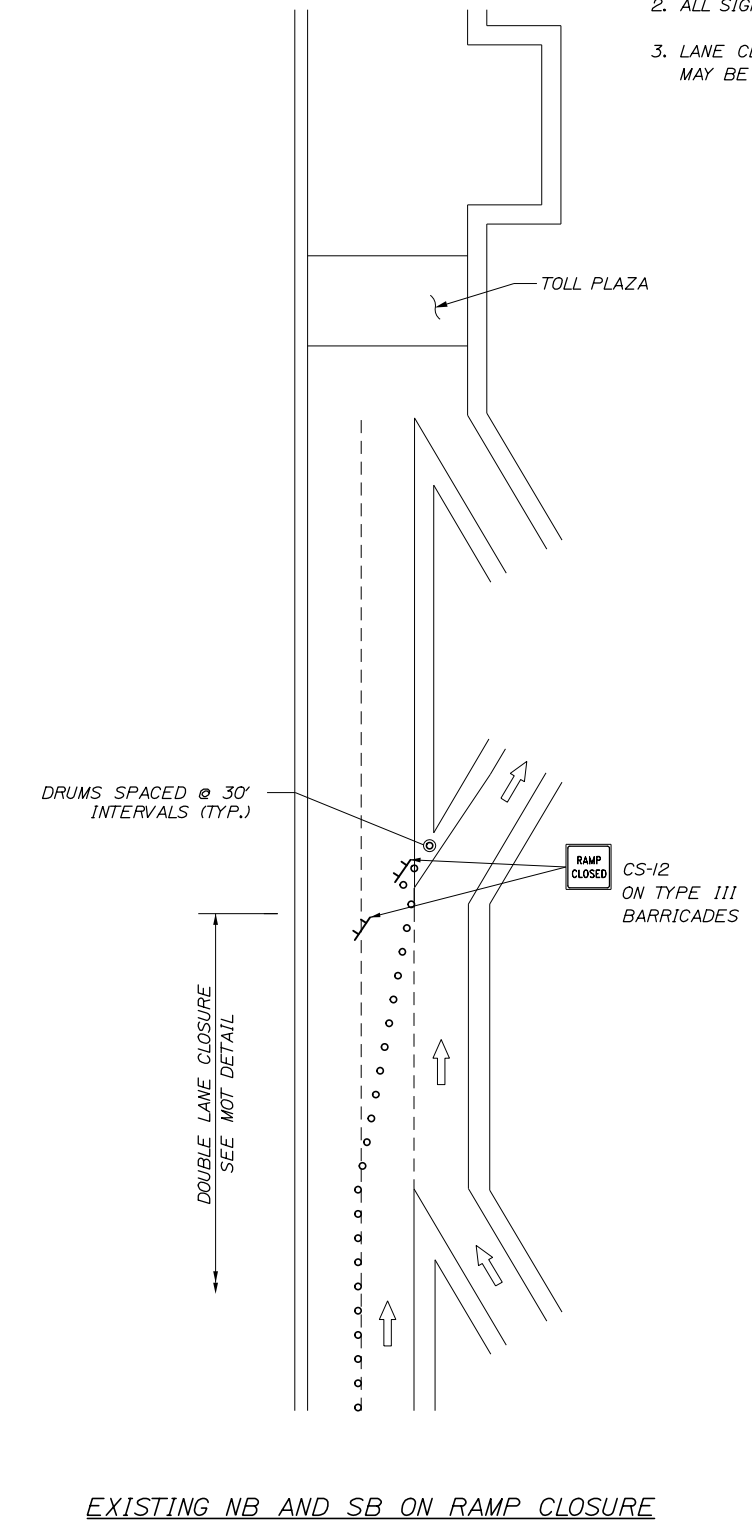
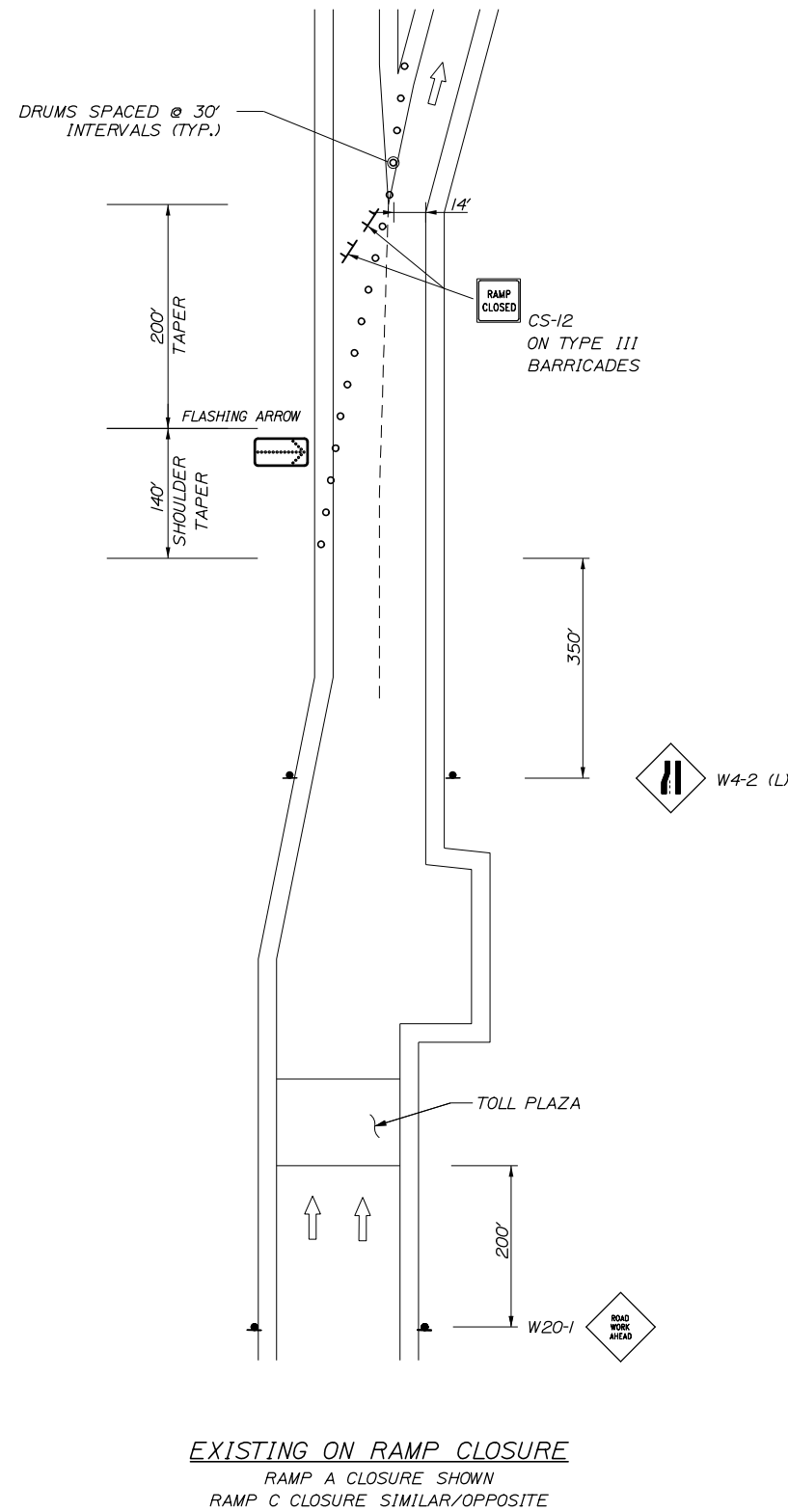
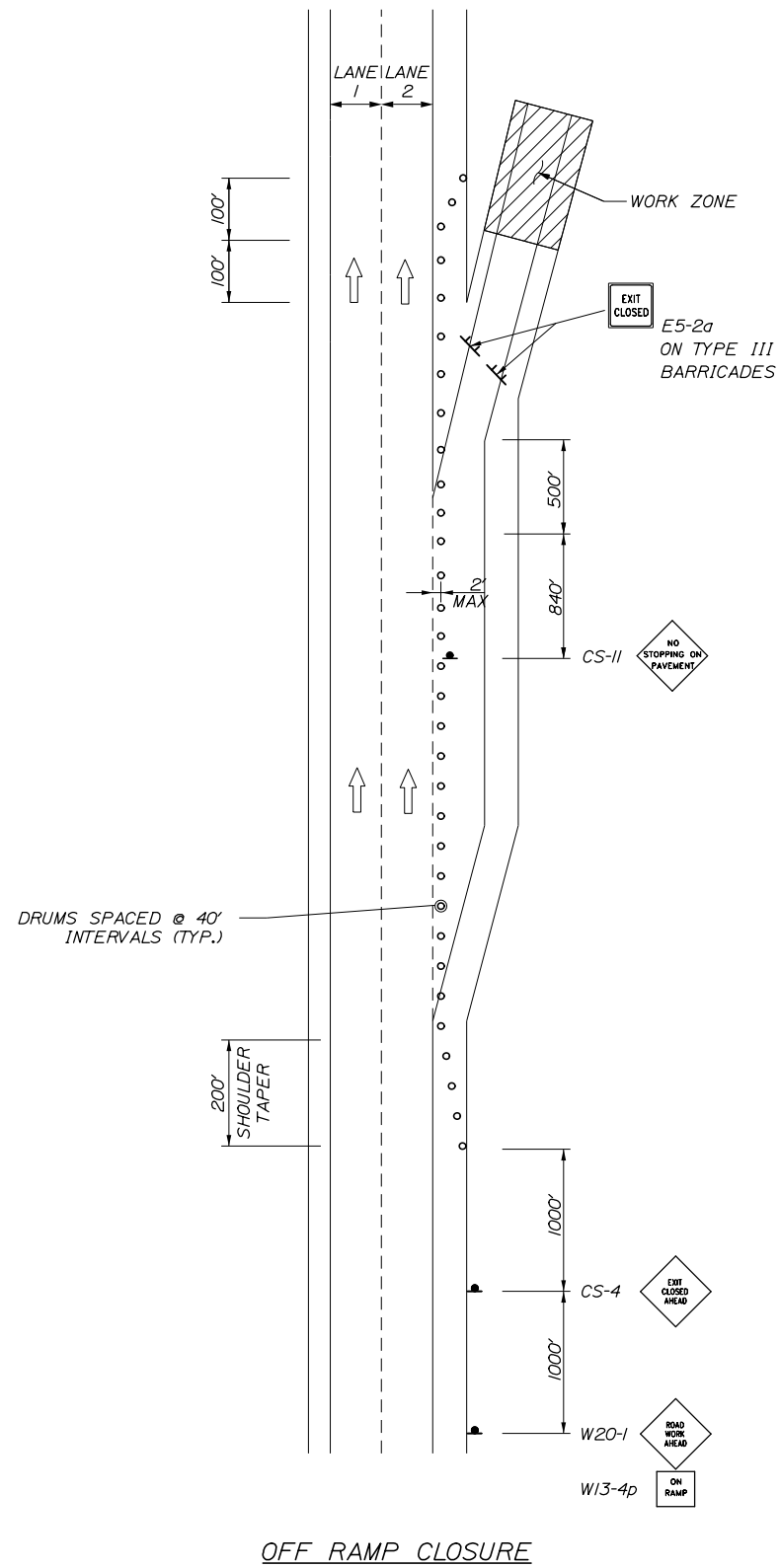
CONTRACT: 2021.07

22 OF 431

Date: 1/14/2021

Filename: 0XX_MOTRampClosureDetail.dgn

- NOTES:**
1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
 2. ALL SIGNS ARE TO BE MOUNTED ON EASELS.
 3. LANE CLOSURES AT ENTRANCE AND EXIT RAMP MAY BE COMBINED IF APPROVED BY THE RESIDENT.



Scale: NOT TO SCALE

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	LAD	09\20	Checked	JRH	09\20
Drawn	AJM	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

MAINTENANCE OF TRAFFIC DETAILS II

SHEET NUMBER: MT-09

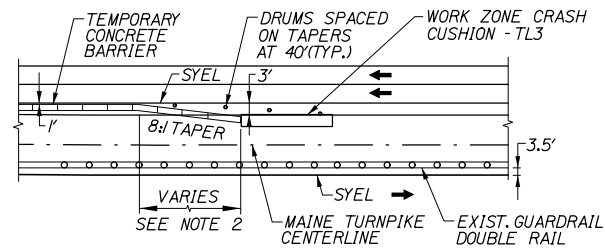
CONTRACT: 2021.07

23 OF 431

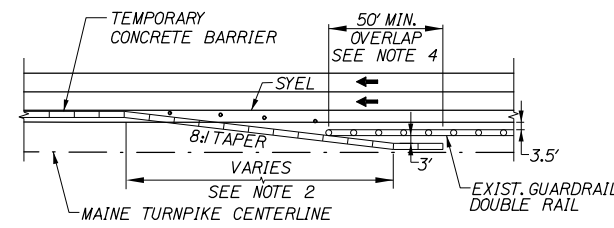
Date: 1/14/2021

Date: 1/14/2021

Filename: OXX_M0TLaneClosureRampDetail.dgn



EXIST. GUARDRAIL ON FAR SIDE OF MEDIAN

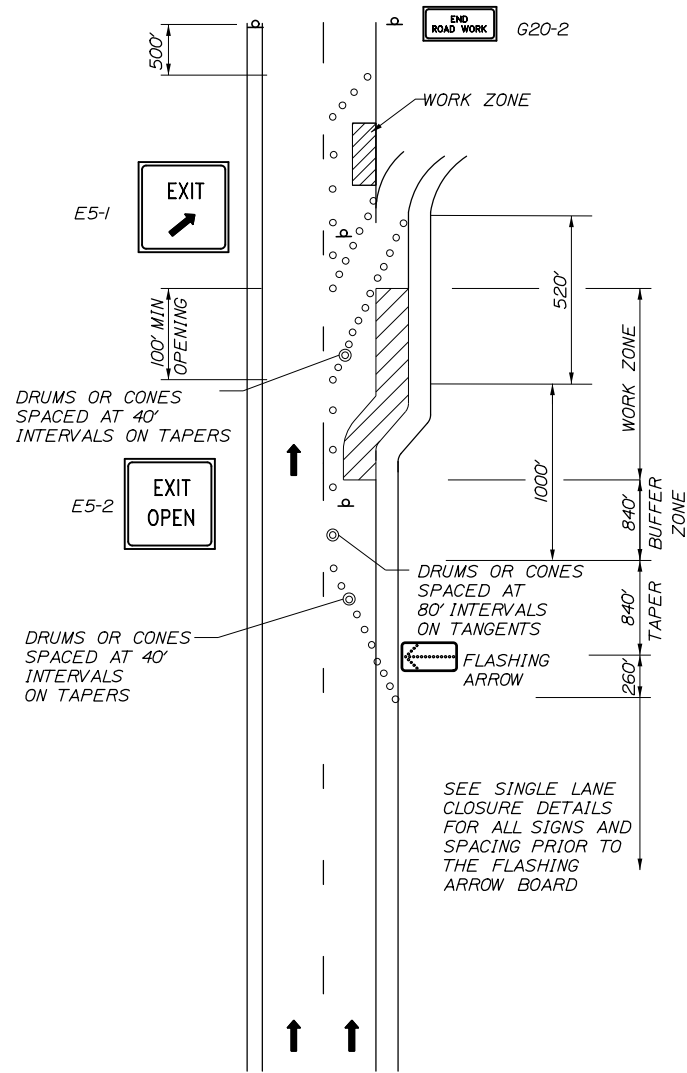


EXIST. GUARDRAIL ON NEAR SIDE OF MEDIAN

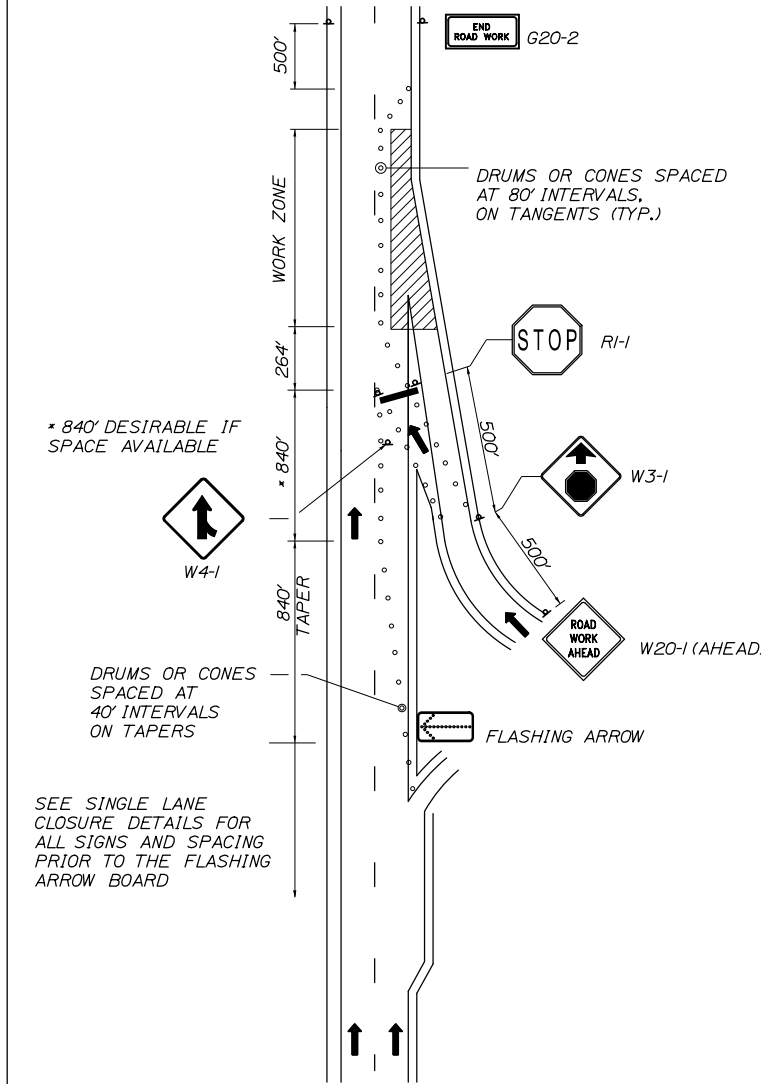
CONCRETE BARRIER/GUARDRAIL OVERLAP DETAIL
NOT TO SCALE

CONCRETE BARRIER/GUARDRAIL OVERLAP NOTES:

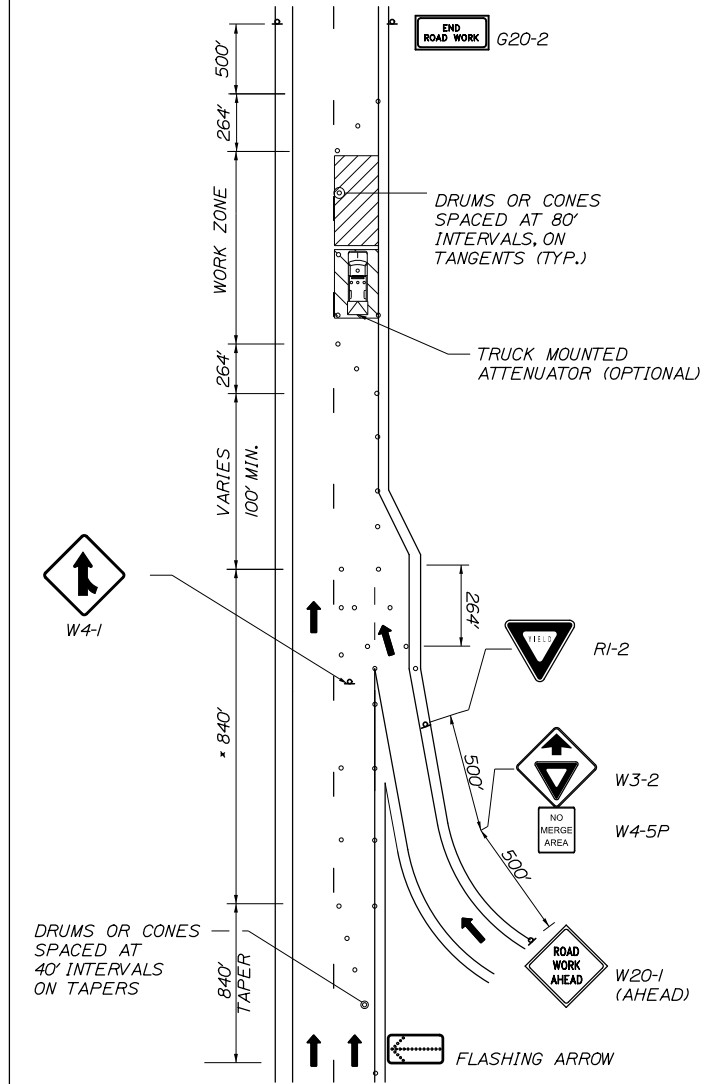
1. BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION (TL-3), OR LAPPED BEHIND GUARDRAIL. SEE DETAILS THIS SHEET.
2. 8:1 TAPERED BARRIER LENGTH DEPENDENT ON LOCATION OF BARRIER RELATIVE TO MAINE TURNPIKE SHOULDERS OR LANES.
3. IF A WORK ZONE CRASH CUSHION - TL3 IS USED FOR A MEDIAN SHOULDER CLOSURE, THE CRASH CUSHION SYSTEM MUST BE FOUNDED ON A LEVEL SURFACE. ANY WORK NECESSARY TO PROVIDE A LEVEL SURFACE WILL BE INCIDENTAL TO THE CRASH CUSHION ITEM.
4. IF THE 50' MIN. LENGTH OF OVERLAP CANNOT BE MET, THEN THE EXISTING GUARDRAIL END MUST BE ANCHORED IN ACCORDANCE WITH DRAWING SEWO2a IN THE AASHTO-AGC-ARBTA JOINT COMMITTEE TASK FORCE 13 REPORT, DRAFTED MAY 1995.



TRAVEL LANE CLOSURE AT AN EXIT RAMP



TRAVEL LANE CLOSURE AT AN ENTRANCE RAMP
STOP CONDITION



TRAVEL LANE CLOSURE AT AN ENTRANCE RAMP
YIELD CONDITION

LANE CLOSURES OF SHORT DURATION AT RAMPS
(MAINLINE)

RAMP LANE CLOSURE NOTES:

1. FOR SIGN DETAILS, SEE MAINTENANCE OF TRAFFIC SIGN SUMMARY SHEETS.
2. YIELD OR STOP CONDITION SHALL BE DETERMINED BY THE RESIDENT.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

**EXIT 45 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 DETAILS III**

SHEET NUMBER: MT-10
 CONTRACT: 2021.07
 24 OF 431

SEQUENCE OF OPERATIONS

1. CONSTRUCT PROPOSED TEMPORARY RAMP A EMBANKMENT BEHIND THE EXISTING GUARDRAIL PRIOR TO THE WEEKEND CLOSURE.
2. CLOSE SB ON RAMP AND SB OFF RAMP (FIRST WEEKEND CLOSURE) FOR THE PURPOSE OF RECONSTRUCTING THE RAMP A/B CROSSING (STA. 732+00 TO STA. 735+65) TO GRADE.
3. CLOSE THE SB ON AND OFF RAMP (SECOND WEEKEND CLOSURE) FOR THE PURPOSE OF RECONSTRUCTING THE SOUTHBOUND OFF RAMP (RAMP B) CROSSING TO GRADE AND CONNECTING THE PROPOSED TEMPORARY SOUTHBOUND ON RAMP (RAMP A) REALIGNMENT TO THE EXISTING SOUTHBOUND ON RAMP.

NOTE:

1. THERE IS NO MAINLINE ACCESS FROM EXISTING RAMP A.

ACTIVITIES DURING WEEKEND CLOSURE:

- A. REMOVE EXISTING PAVEMENT
- B. PLACE FILL/AGGREGATES TO GRADE
- C. TEMPORARY PAVEMENT (SEE TEMPORARY RAMP TYPICAL SECTIONS ON SHEET MT-02)
- D. TEMPORARY PAVEMENT MARKINGS
- E. RESET OR PLACE TEMPORARY CONCRETE BARRIER AND OTHER TRAFFIC CONTROL DEVICES
- F. OPEN SB OFF RAMP AND SB ON RAMP TO TRAFFIC.

ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE I - SUPPLIED BY AUTHORITY

STA. 4+00, 15' RT. TO STA. 8+50, 15' RT.	450 LF
STA. 2208+50, 64' LT. TO STA. 2210+75, 67' LT.	225 LF
STA. 731+87, 16' RT. TO STA. 736+06, 16' RT.	419 LF

ITEM 527.341 WORK ZONE CRASH CUSHION - TL-3
STA. 2210+98, 67' LT

ITEM 527.343 RESET EXISTING WORK ZONE CRASH CUSHION
STA. 736+08, 29' RT

ITEM 610.08 PLAIN RIPRAP
STA. 1+38, 12' LT.
STA. 2+19, 27' RT.
STA. 4+11, 19' LT.

ITEM 610.18 STONE DITCH PROTECTION
STA. 1+37, 15' RT. TO STA. 2+25, 33' RT.
STA. 1+45, 15' LT. TO STA. 2+50, 5' LT.
STA. 3+73, 12' LT. TO STA. 4+04, 19' LT.
STA. 45+00, 7' LT. TO STA. 45+51, 17' LT.
STA. 733+70, 27' LT. TO STA. 734+33, 33' LT.

MOT RAMP A CURVE DATA #1
PI = 0+56.45
D = 11°12'44.9"
Δ = 12°36'24.8" Lt.
R = 511.00'
L = 112.44'
T = 56.45'
E = 3.11'

MOT RAMP A CURVE DATA #2
PI = 3+38.10
D = 19°37'18.6"
Δ = 75°23'43.4" Lt.
R = 292.00'
L = 384.24'
T = 225.66'
E = 77.04'

MOT RAMP A CURVE DATA #3
PI = 5+59.37
D = 16°42'15.5"
Δ = 20°42'52.3" Rt.
R = 343.00'
L = 124.01'
T = 62.69'
E = 5.68'

MOT RAMP A CURVE DATA #4
PI = 7+52.33
D = 21°42'10.6"
Δ = 53°00'18.7" Rt.
R = 264.00'
L = 244.23'
T = 131.64'
E = 31.00'

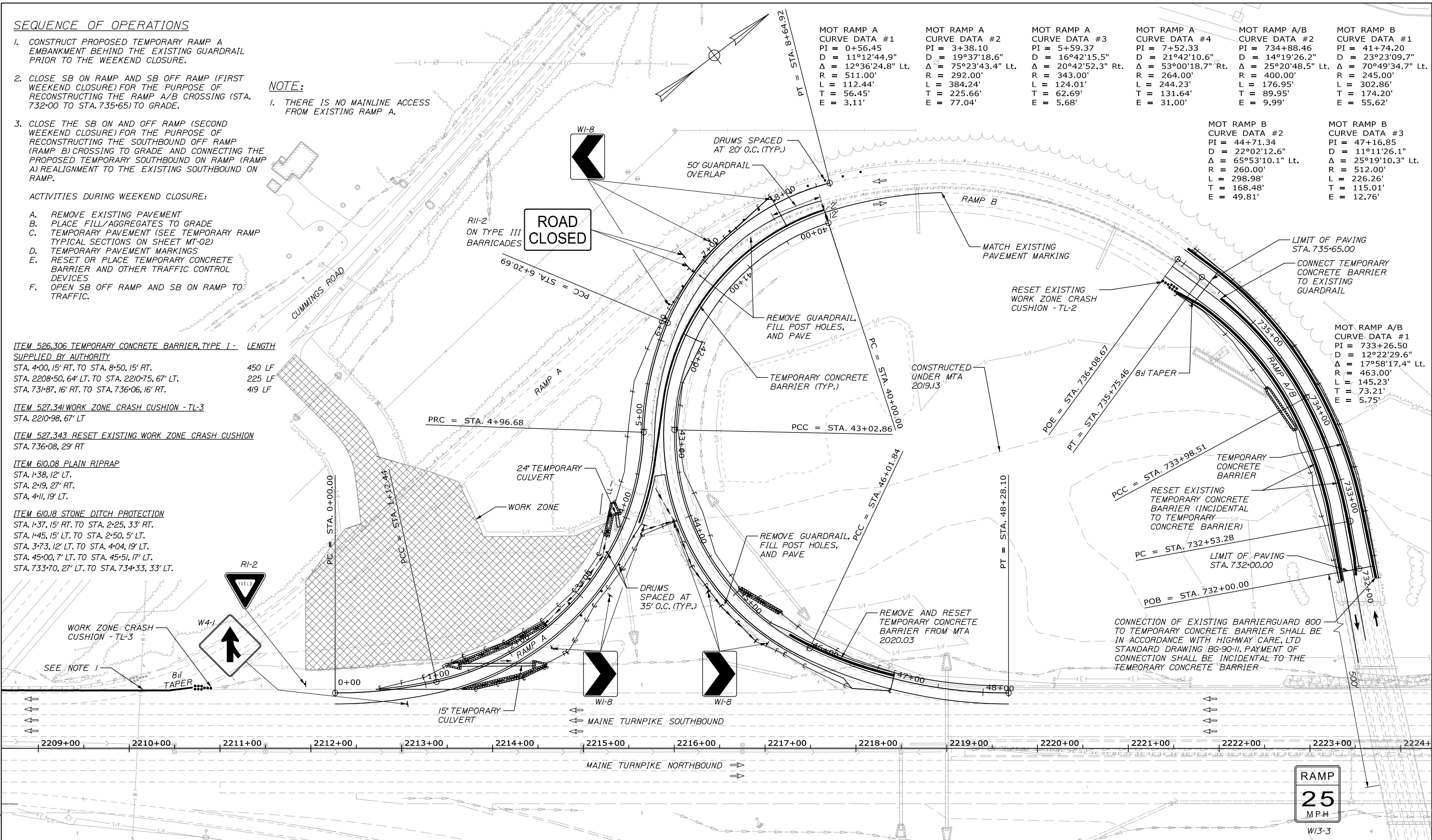
MOT RAMP A/B CURVE DATA #2
PI = 734+88.46
D = 14°19'26.2"
Δ = 25°20'48.5" Lt.
R = 400.00'
L = 176.95'
T = 89.95'
E = 9.99'

MOT RAMP B CURVE DATA #1
PI = 41+74.20
D = 23°23'09.7"
Δ = 70°49'34.7" Lt.
R = 245.00'
L = 302.86'
T = 174.20'
E = 55.62'

MOT RAMP B CURVE DATA #2
PI = 44+71.34
D = 22°02'12.6"
Δ = 65°53'10.1" Lt.
R = 260.00'
L = 298.98'
T = 168.48'
E = 49.81'

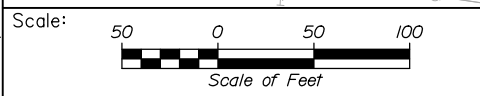
MOT RAMP B CURVE DATA #3
PI = 47+16.85
D = 11°11'26.1"
Δ = 25°19'10.3" Lt.
R = 512.00'
L = 226.26'
T = 115.01'
E = 12.76'

MOT RAMP A/B CURVE DATA #1
PI = 733+26.50
D = 12°22'29.6"
Δ = 17°58'17.4" Lt.
R = 463.00'
L = 145.23'
T = 73.21'
E = 5.75'



Date: 1/14/2021

Filename: OXX_MOT_Ramp A & B.dgn



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
RAMP A, B AND A/B PLAN**

SHEET NUMBER: MT-11

No.	Revision	By	Date

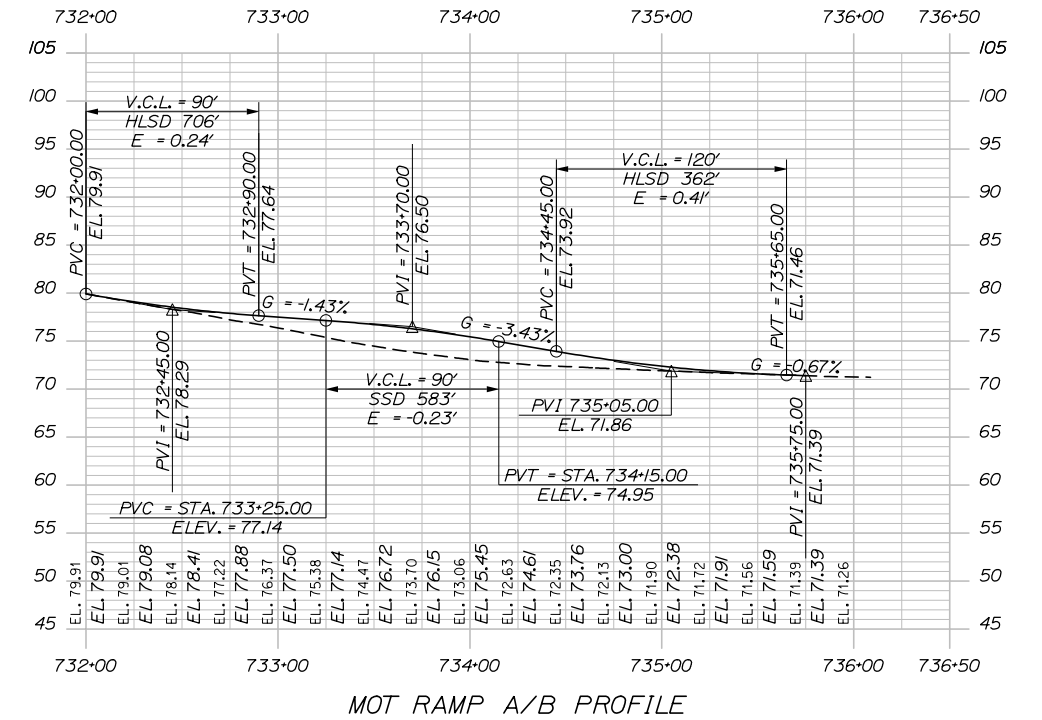
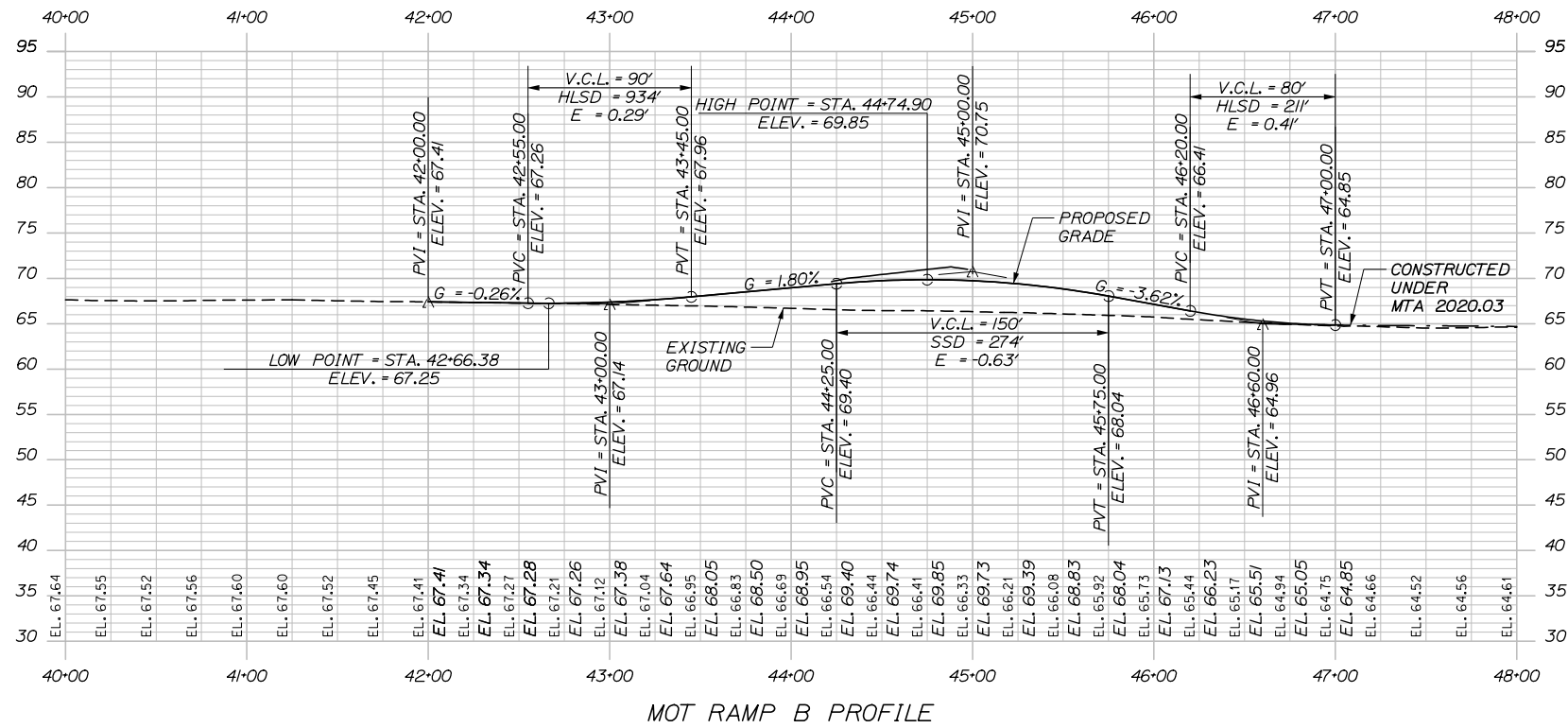
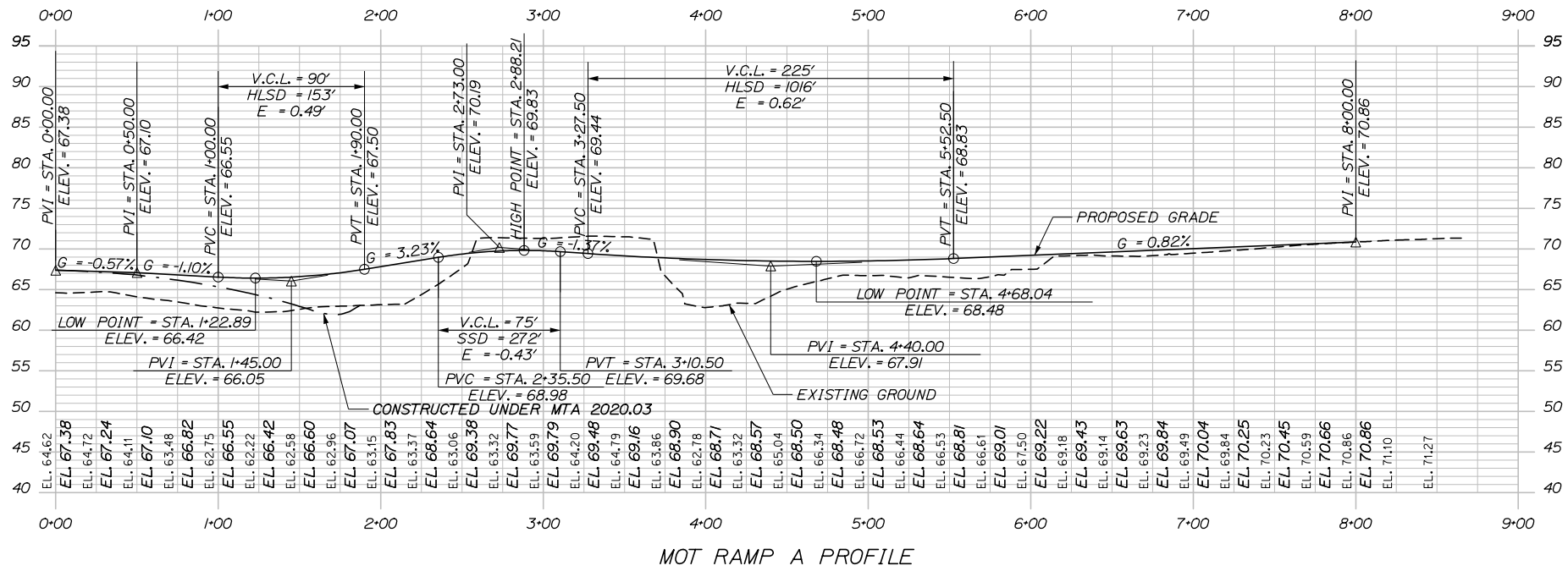
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

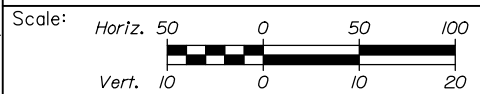
CONTRACT: 2021.07

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Date: 1/14/2021



Filename: OXX_MOT_Ramp A & B Profiles.dgn



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EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
RAMP A, B AND A/B PROFILE

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	TRC	09\20	Checked	JRH	09\20
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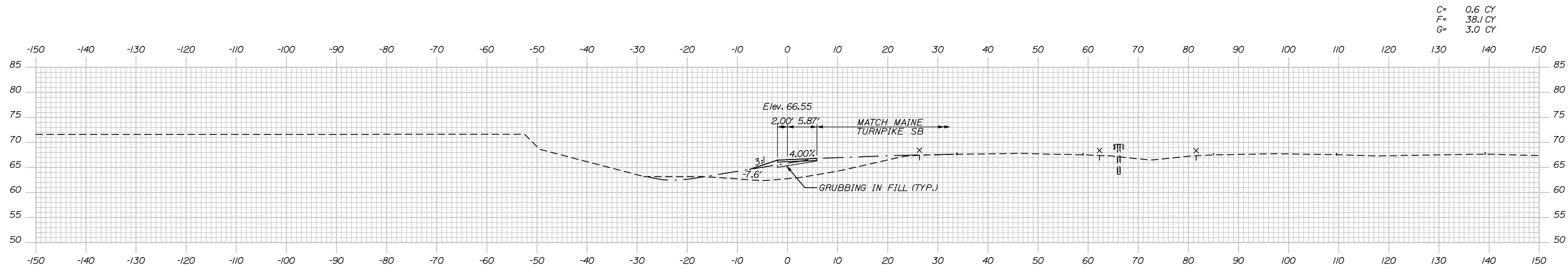
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

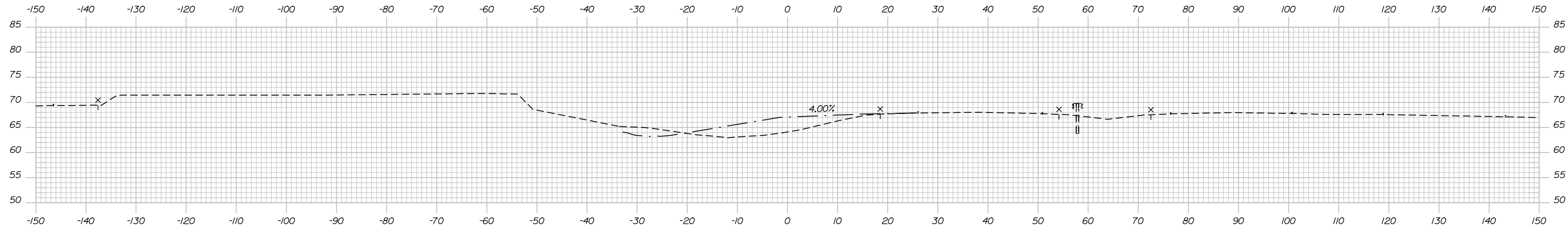
SHEET NUMBER: MT-12

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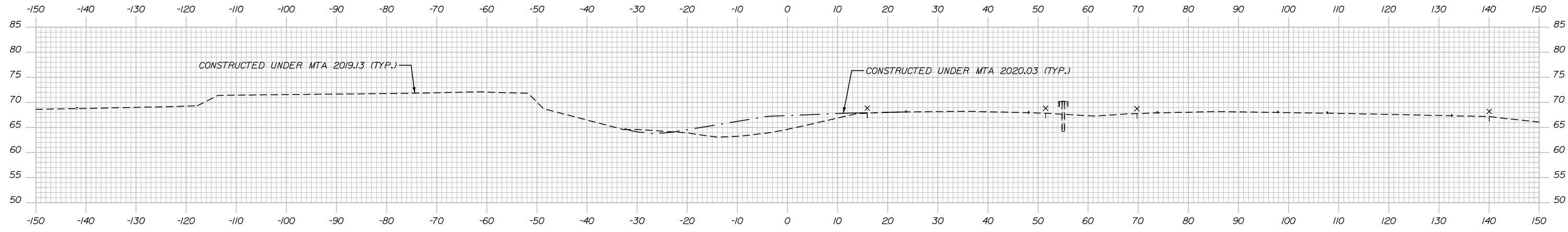
Date: 1/14/2021



1+00.00

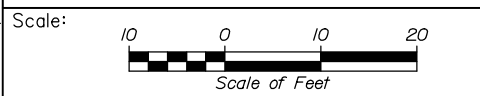


0+50.00



0+00.00

Filename: Xsect_MOT_Ramp_A.dgn



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EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP A

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

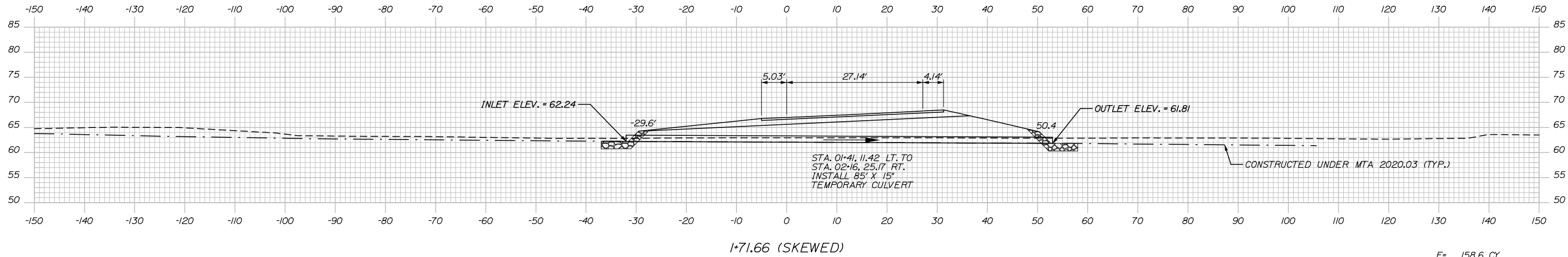
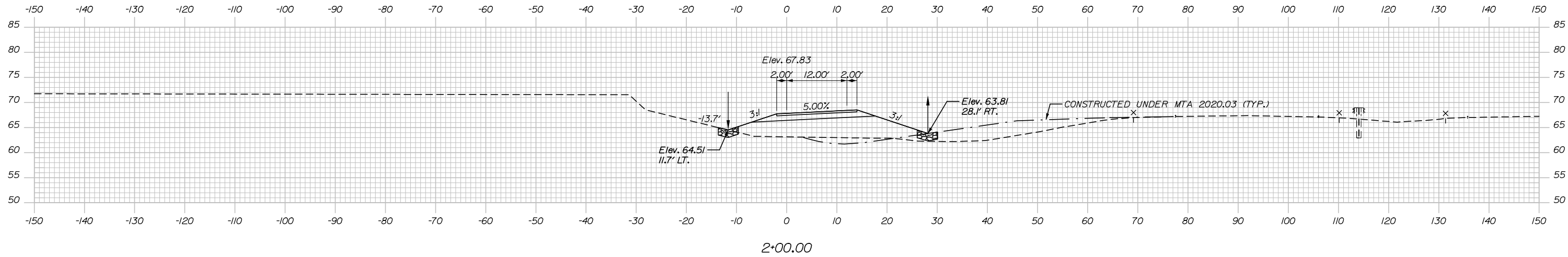
CONTRACT: 2021.07

SHEET NUMBER: MT-13

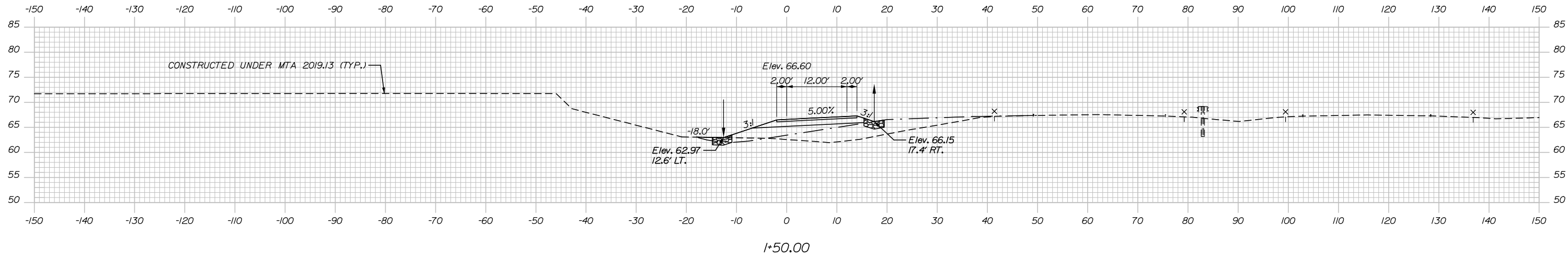
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Date: 1/14/2021

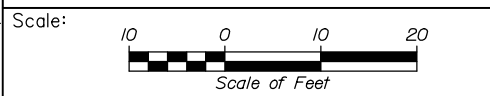
F= 211.9 CY
SUR. EXC.= 4.7 CY



F= 158.6 CY



Filename: Xsect_MOT_Ramp_A.dgn



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	By	Date		By	Date
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Drawn	LAD	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

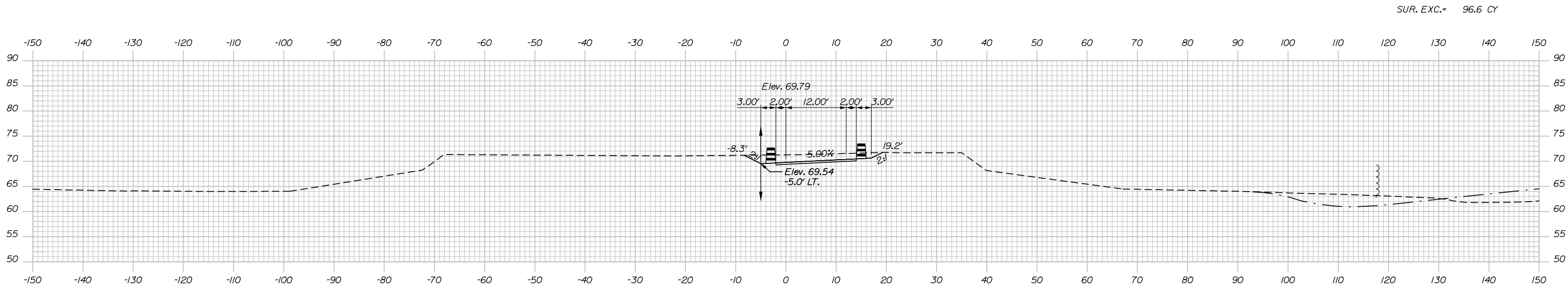
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC CROSS SECTIONS - RAMP A

SHEET NUMBER: MT-14
CONTRACT: 2021.07
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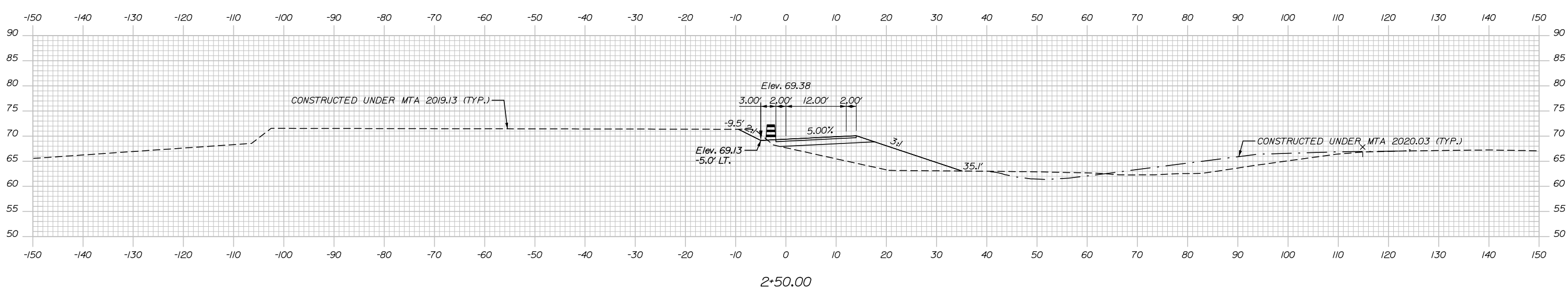
Date: 1/14/2021



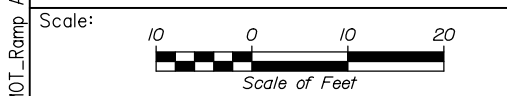
SUR. EXC.= 96.6 CY

3+00.00

F= 89.0 CY
SUR. EXC.= 41.6 CY



2+50.00



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MAINE TURNPIKE

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

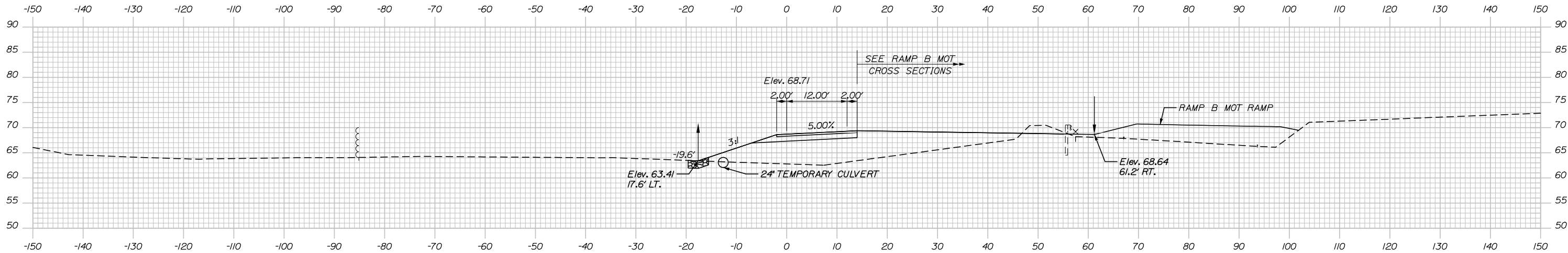
EXIT 45 INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC CROSS SECTIONS - RAMP A

SHEET NUMBER: MT-15
CONTRACT: 2021.07
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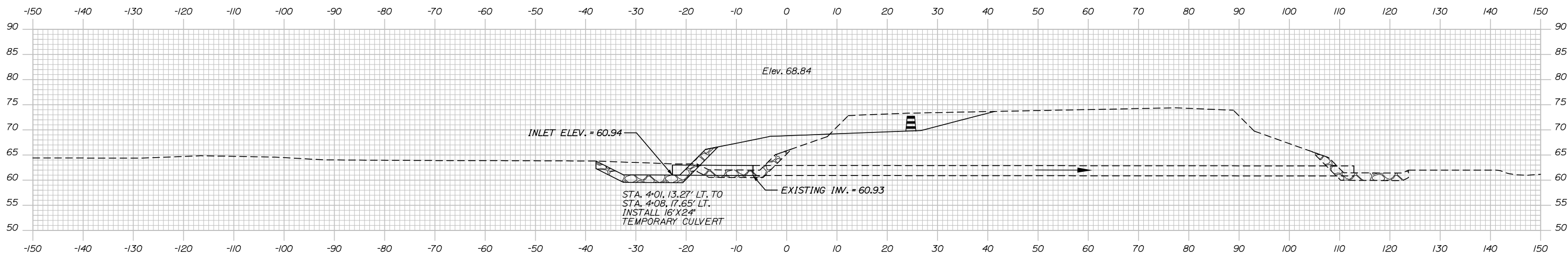
Filename: Xsect_MOT_Ramp_A.dgn

Date: 1/14/2021

C= 0.5 CY
F= 150.9 CY

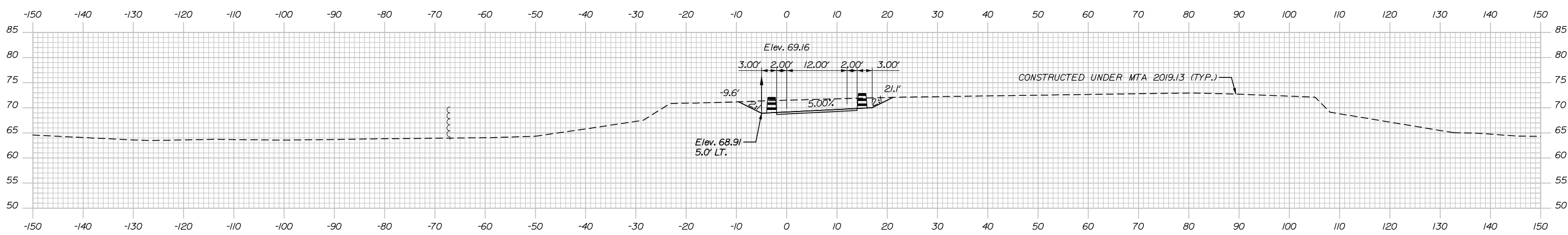


4+00.00



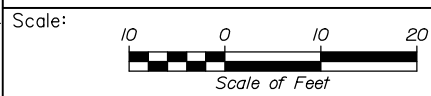
3+82.11 (SKEWED)

F= 108.8 CY
SUR. EXC.= 59.7 CY



3+50.00

CONSTRUCTED UNDER MTA 2019.13 (TYP.)



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MAINE TURNPIKE

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

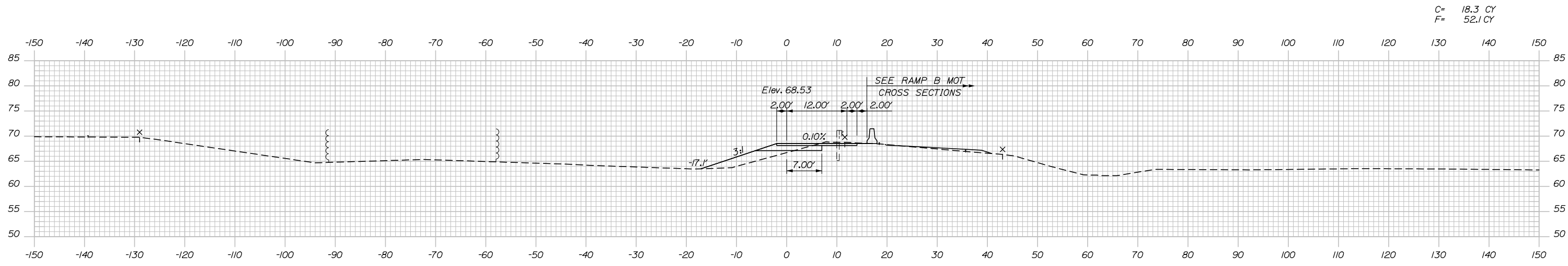
MAINTENANCE OF TRAFFIC CROSS SECTIONS - RAMP A

SHEET NUMBER: MT-16

CONTRACT: 2021.07

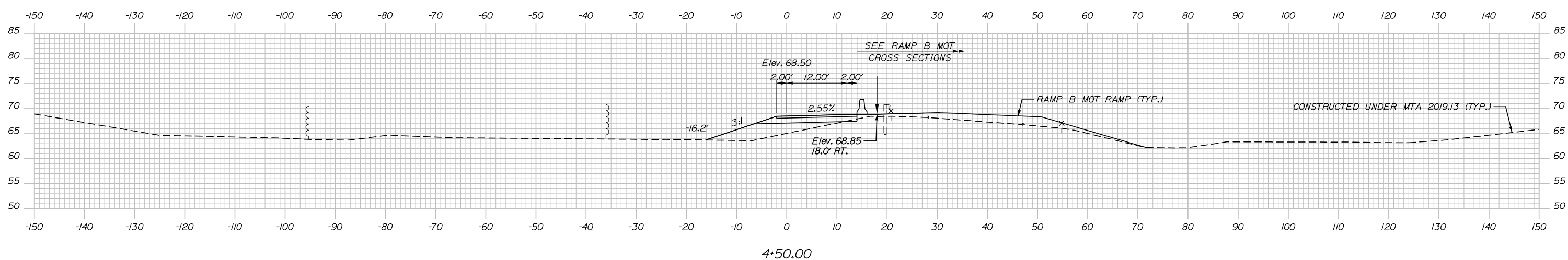
30 OF 431

Date: 1/14/2021



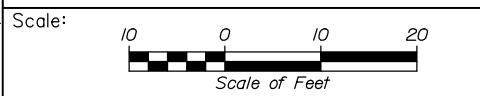
C= 18.3 CY
F= 52.1 CY

5+00.00



C= 8.4 CY
F= 63.3 CY

4+50.00



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EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP A

No.	Revision	By	Date

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Designed	By	Date	Checked
Drawn	By	Date	In Charge of
	TRC	09\20	JRH
	LAD	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

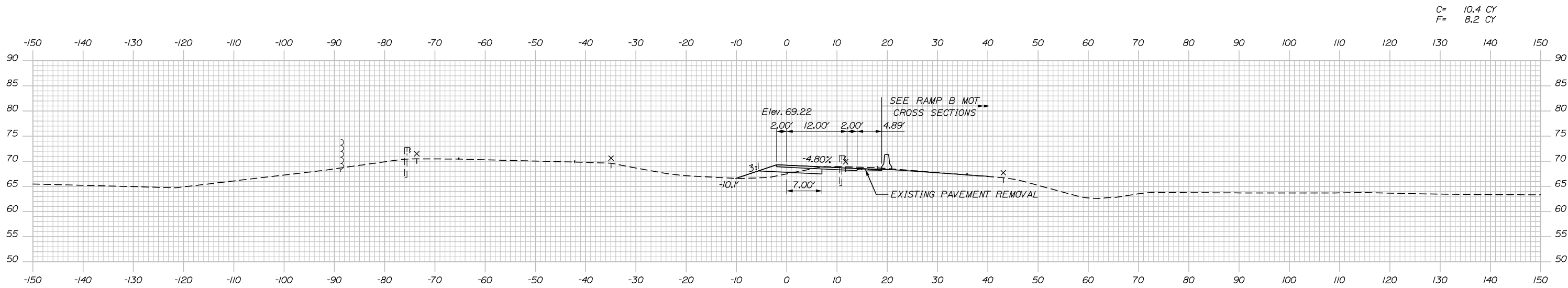
CONTRACT: 2021.07

SHEET NUMBER: MT-17

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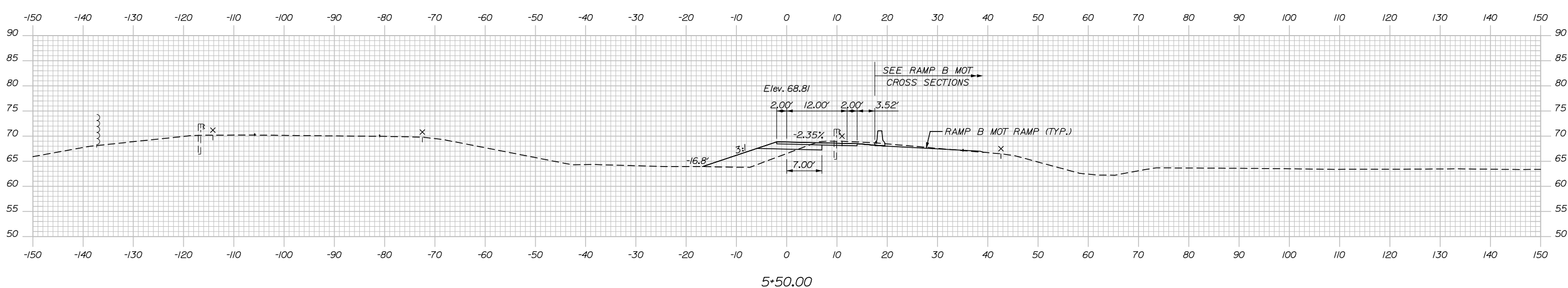
Filename: Xsect_MOT_Ramp_A.dgn

Date: 1/14/2021



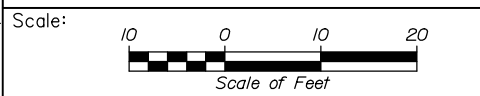
C= 10.4 CY
F= 8.2 CY

6*00.00



C= 19.3 CY
F= 39.2 CY

5*50.00



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EXIT 45
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MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP A

No.	Revision	By	Date

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Drawn	By	Date	In Charge of
	LAD	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

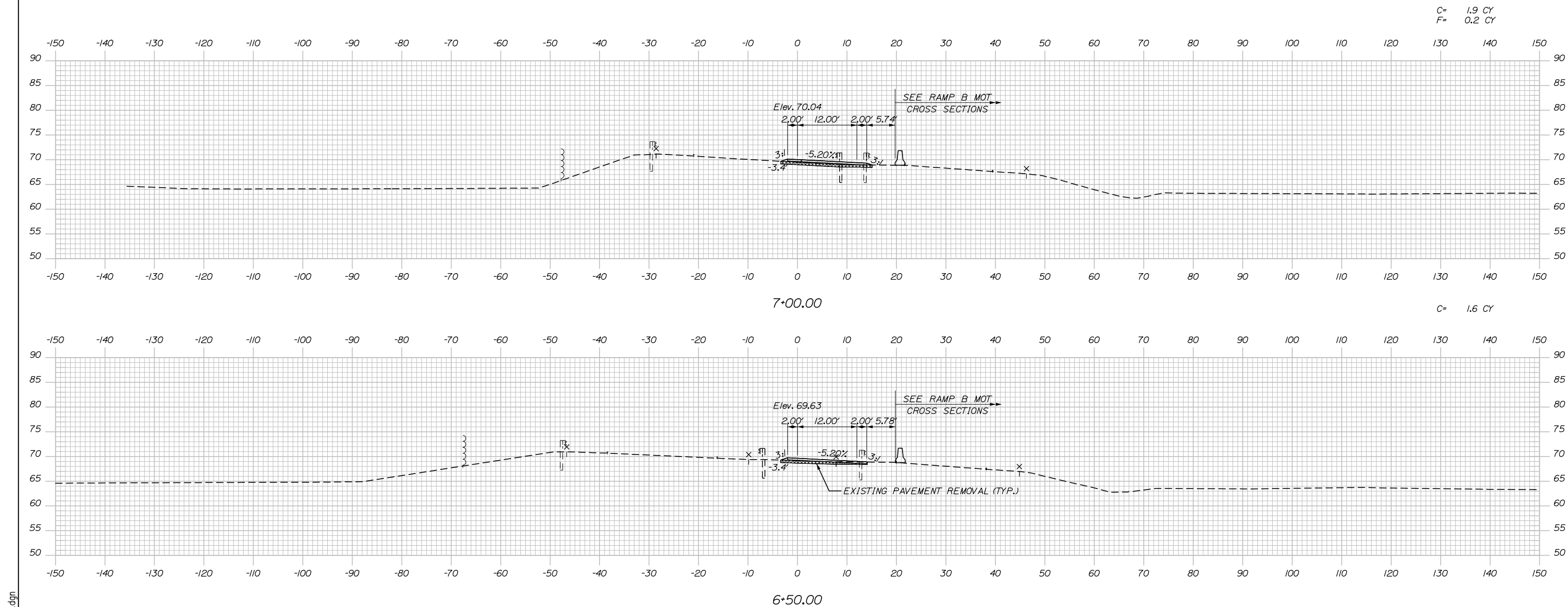
CONTRACT: 2021.07

SHEET NUMBER: MT-18

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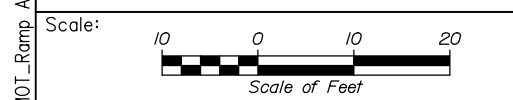
Filename: Xsect_MOT_Ramp_A.dgn

Date: 1/14/2021



C= 1.9 CY
F= 0.2 CY

C= 1.6 CY



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**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP A**

SHEET NUMBER: MT-19

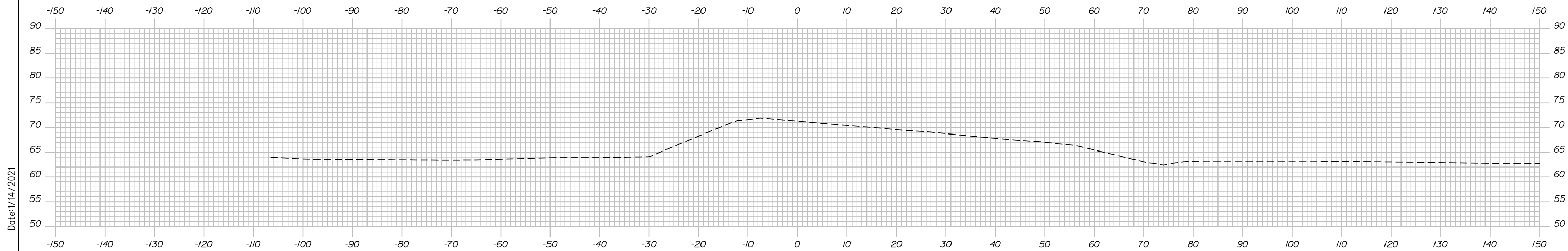
Filename: Xsect_MOT_Ramp_A.dgn

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

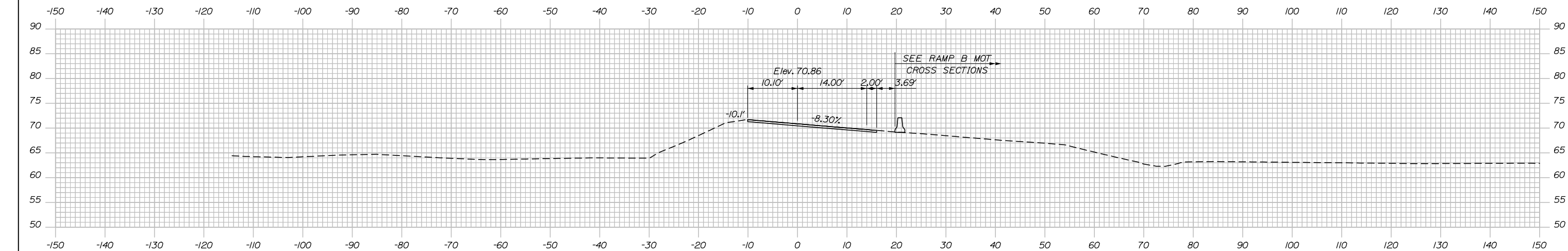
CONTRACT: 2021.07

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Date: 1/14/2021

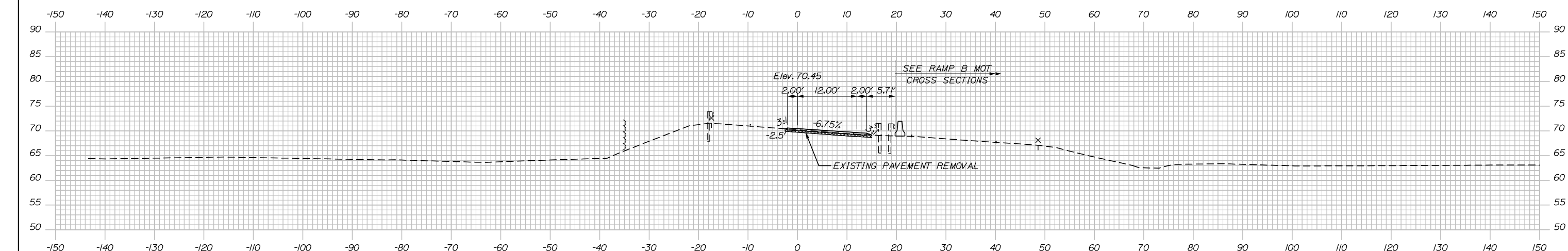


8+50.00

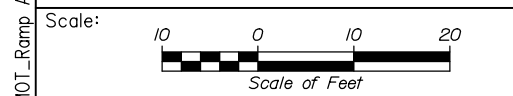


8+00.00

C= 11.6 CY
F= 0.2 CY



7+50.00



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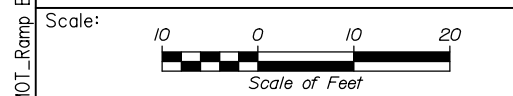
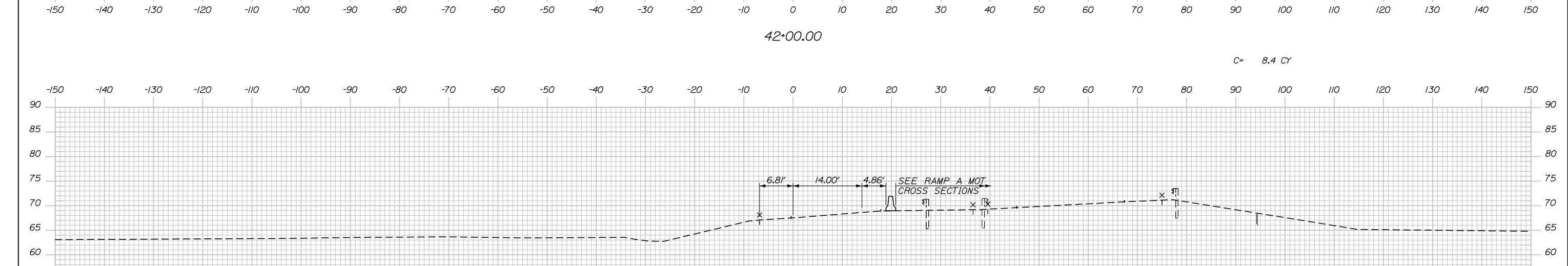
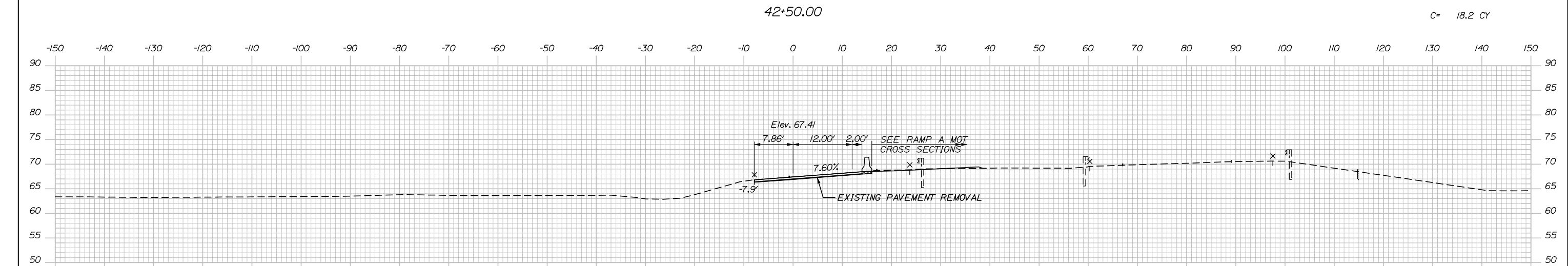
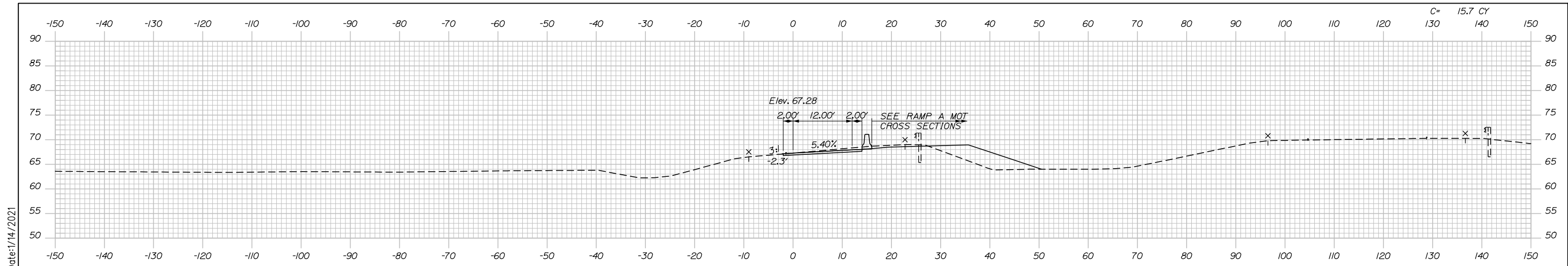
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP A**

SHEET NUMBER: MT-20
CONTRACT: 2021.07
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Filename: Xsect_MOT_Ramp_A.dgn

Date: 1/14/2021



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

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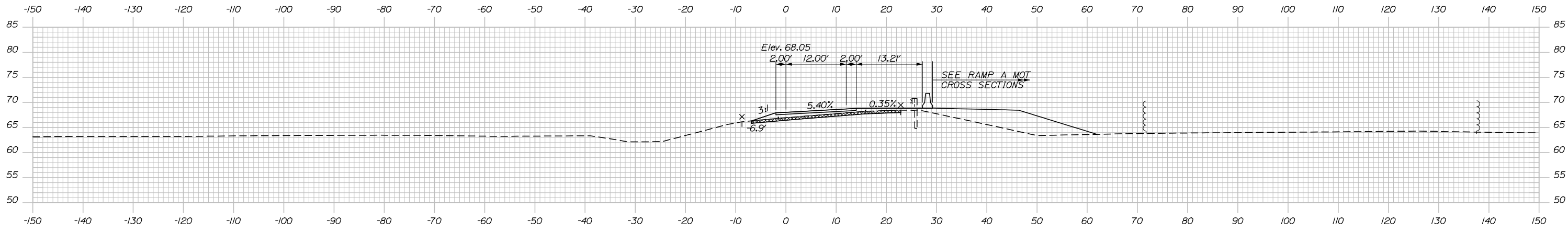
EXIT 45
INTERCHANGE RECONFIGURATION

MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP B

SHEET NUMBER: MT-21
CONTRACT: 2021.07
35 OF 431

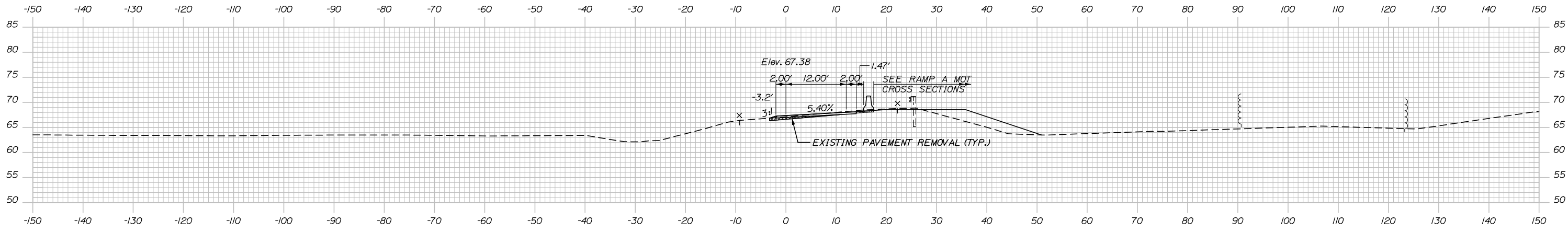
Filename: Xsect_MOT_Ramp_B.dgn

Date: 1/14/2021

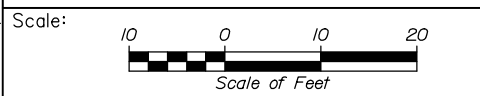


43+50.00

C= 5.9 CY



43+00.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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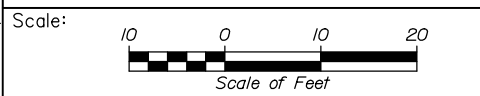
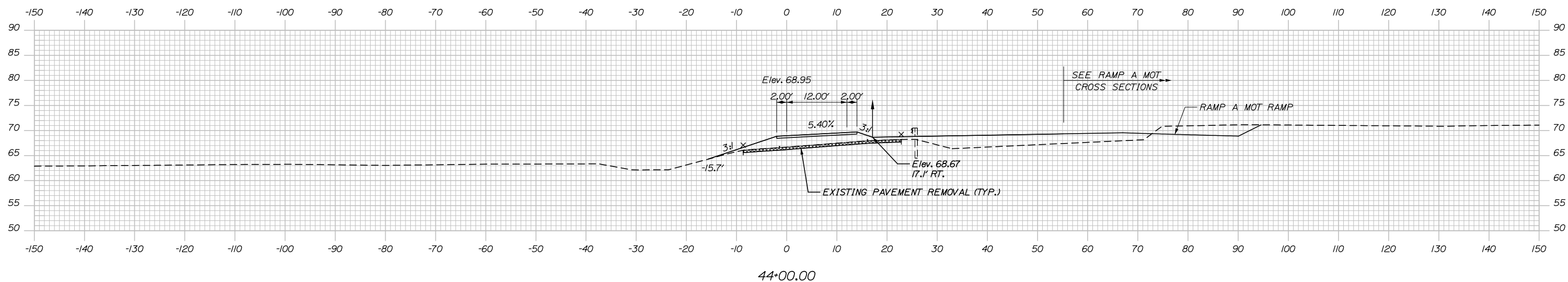
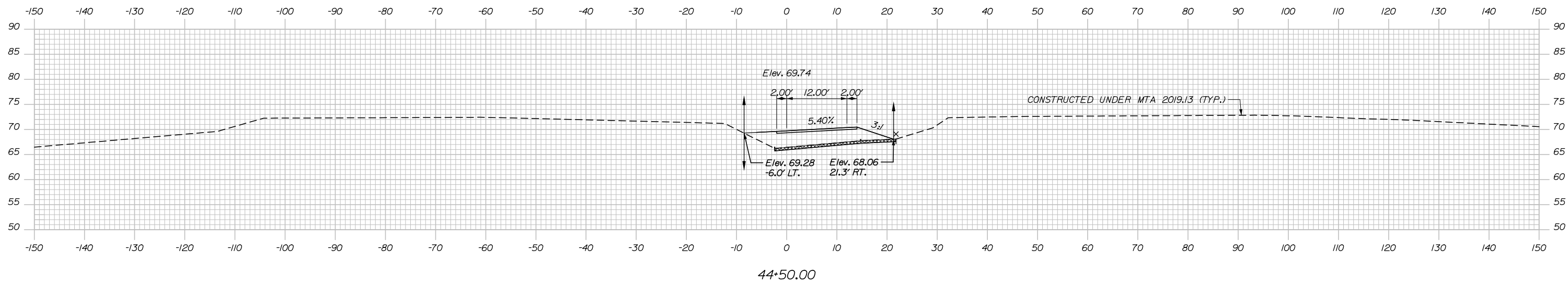
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP B**

SHEET NUMBER: MT-22
 CONTRACT: 2021.07
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Filename: Xsect_MOT_Ramp_B.dgn

Date: 1/14/2021



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

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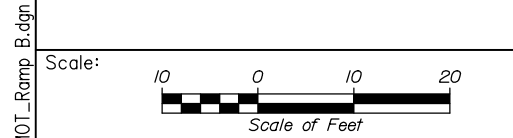
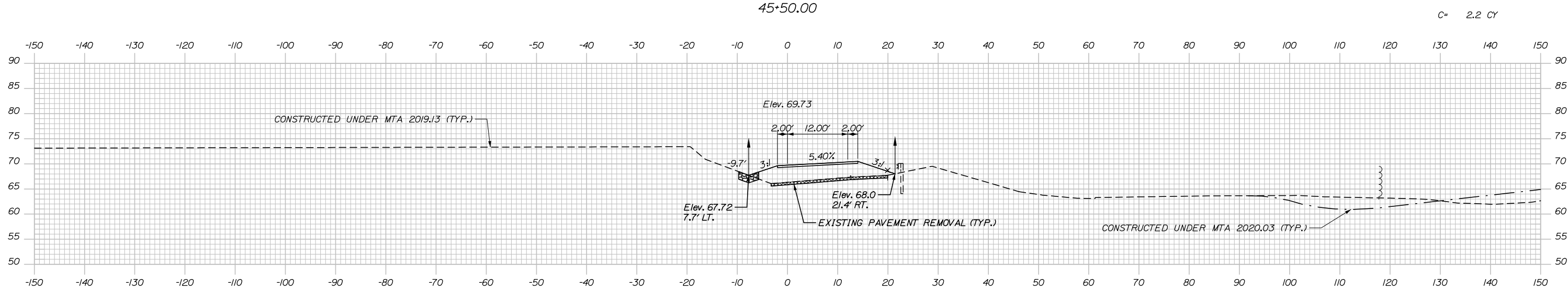
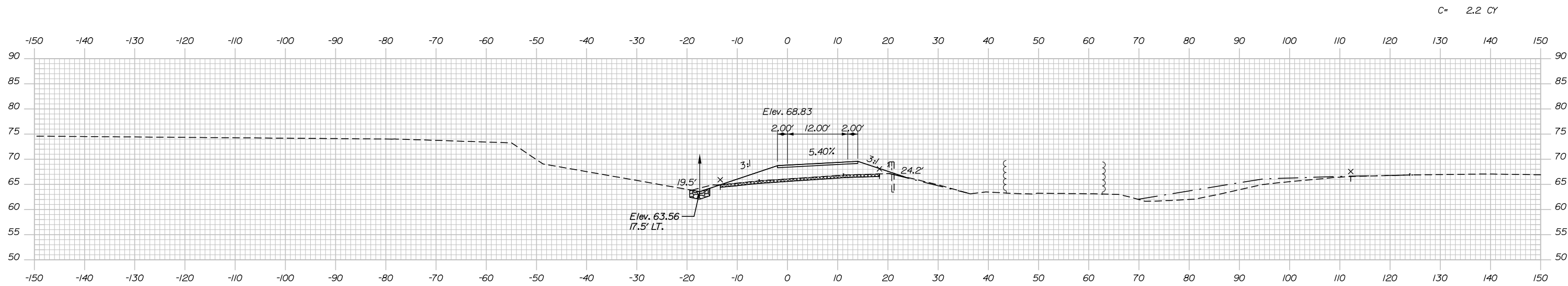
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP B**

SHEET NUMBER: MT-23
CONTRACT: 2021.07
37 OF 431

Filename: Xsect_MOT_Ramp B.dgn

Date: 1/14/2021



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP B**

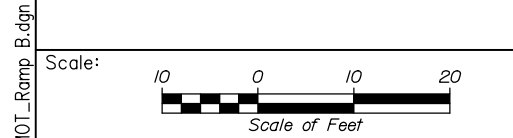
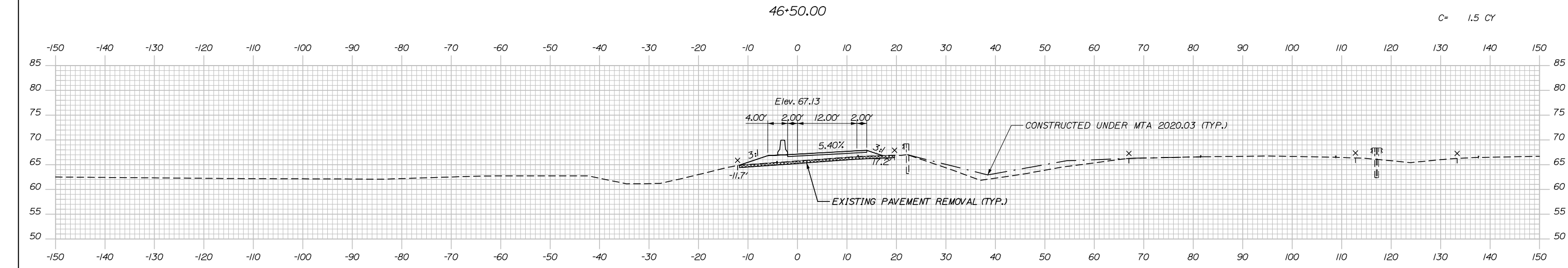
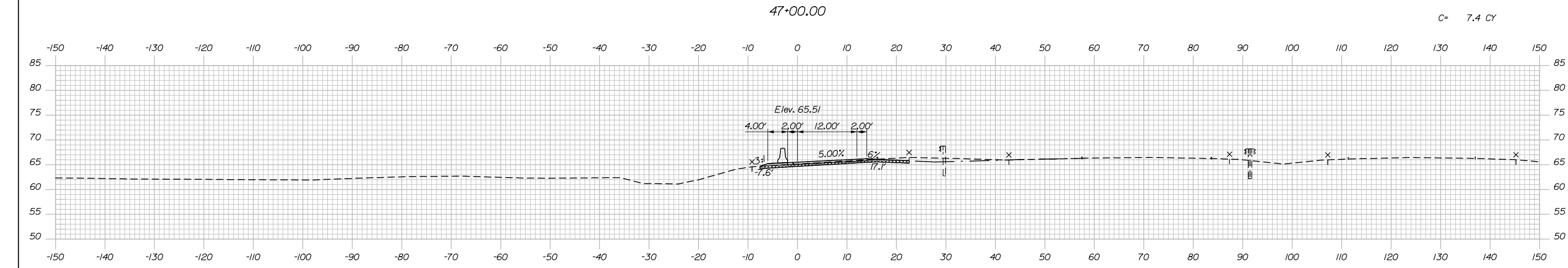
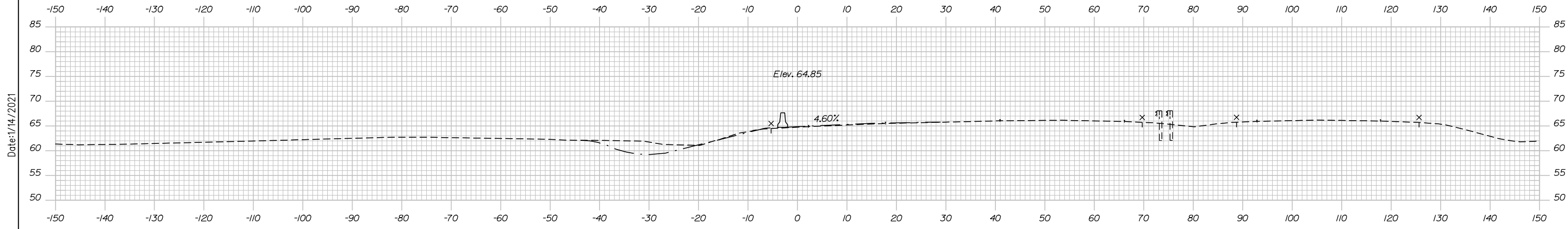
CONTRACT: 2021.07

SHEET NUMBER: MT-24

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Filename: Xsect_MOT_Ramp_B.dgn

Date: 1/14/2021



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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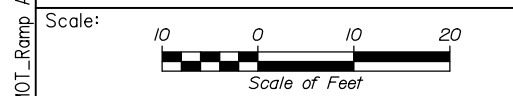
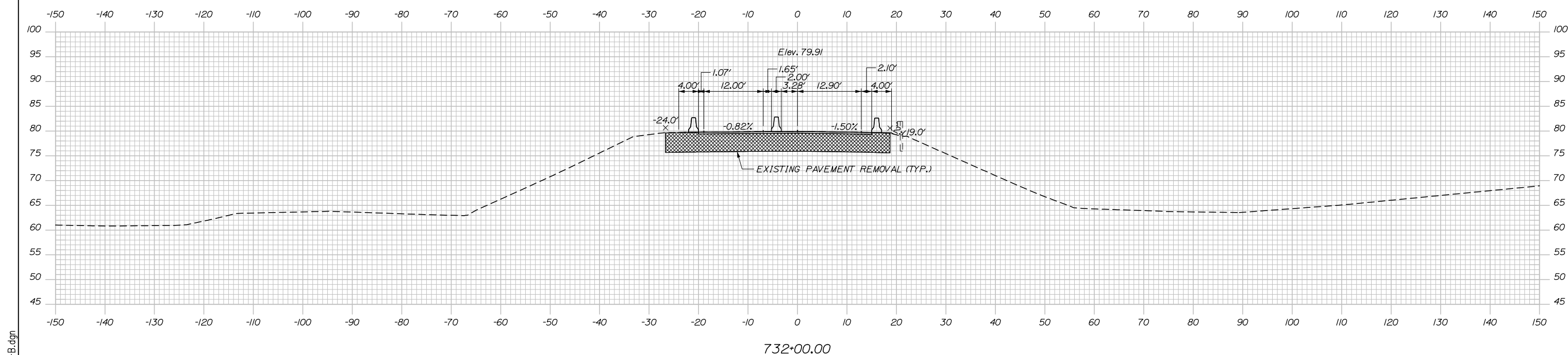
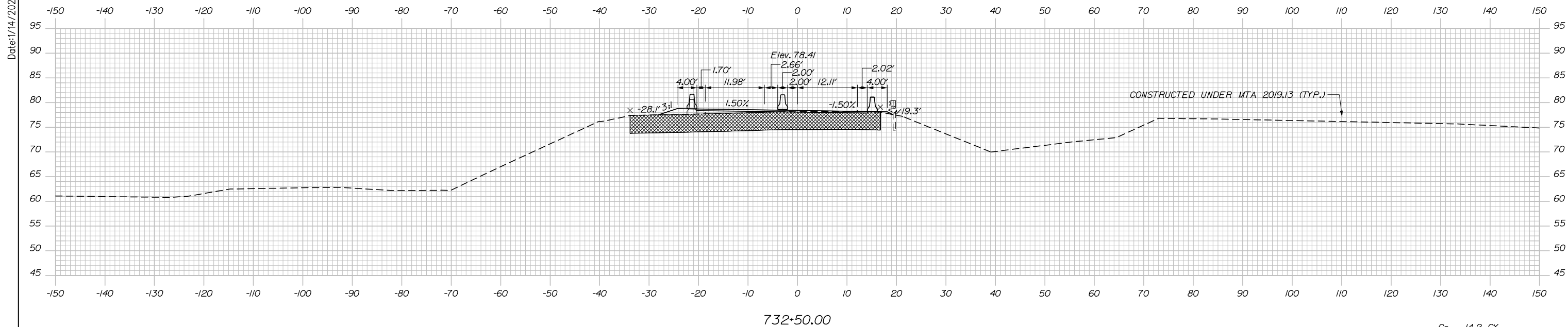
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP B**

SHEET NUMBER: MT-25
CONTRACT: 2021.07
9 OF 431

Date: 1/14/2021



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

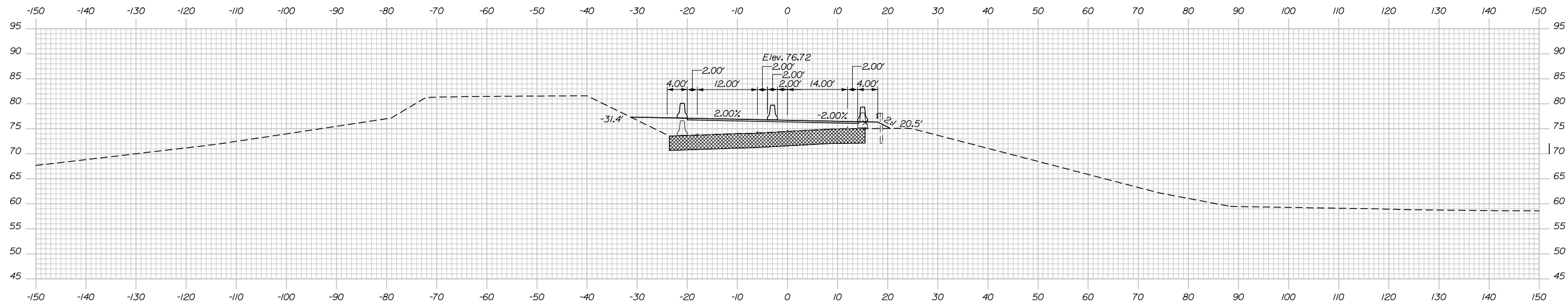
**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP A/B**

SHEET NUMBER: MT-26
 CONTRACT: 2021.07
 40 OF 431

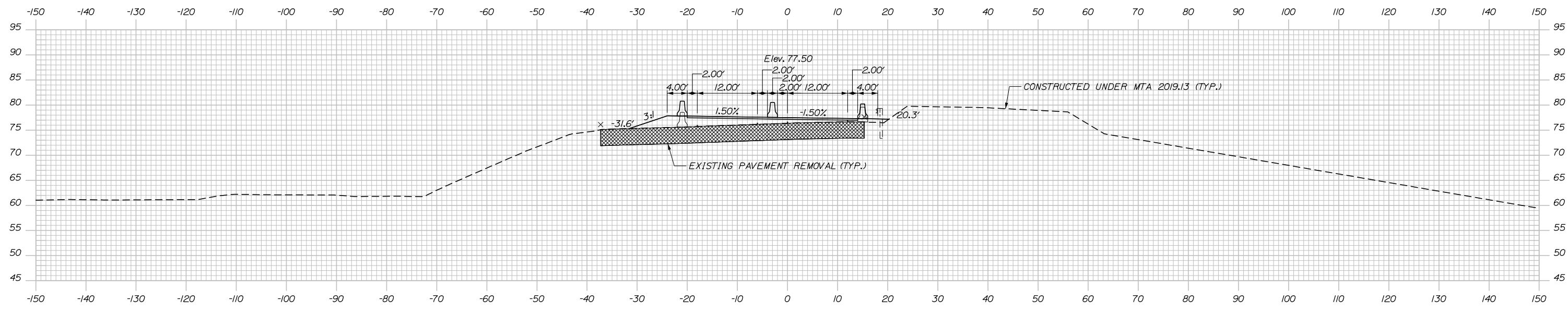
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Date: 1/14/2021

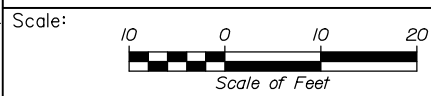
Filename: Xsect_MOT_Ramp_A-B.dgn



733+50.00



733+00.00



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP A/B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	By TRC	Date 09\20	Checked	By JRH	Date 09\20
Drawn	By LAD	Date 09\20	In Charge of	By RAL	Date 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

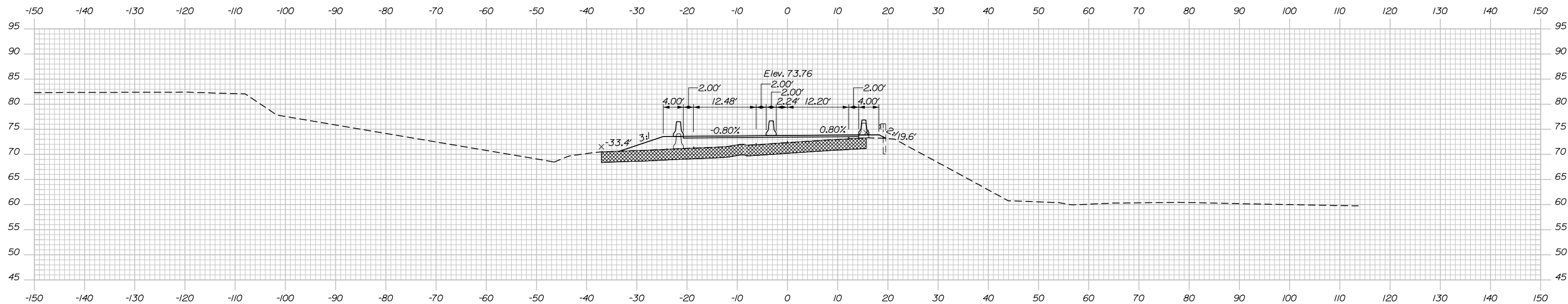
CONTRACT: 2021.07

SHEET NUMBER: MT-27

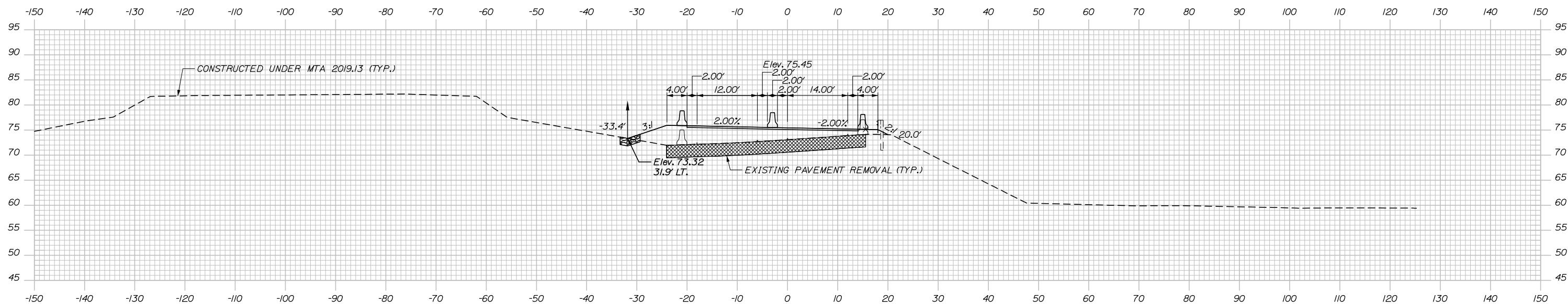
41 OF 431

Date: 1/14/2021

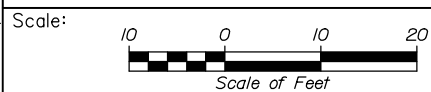
C= 1.6 CY



734+50.00



734+00.00



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP A/B

SHEET NUMBER: MT-28

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

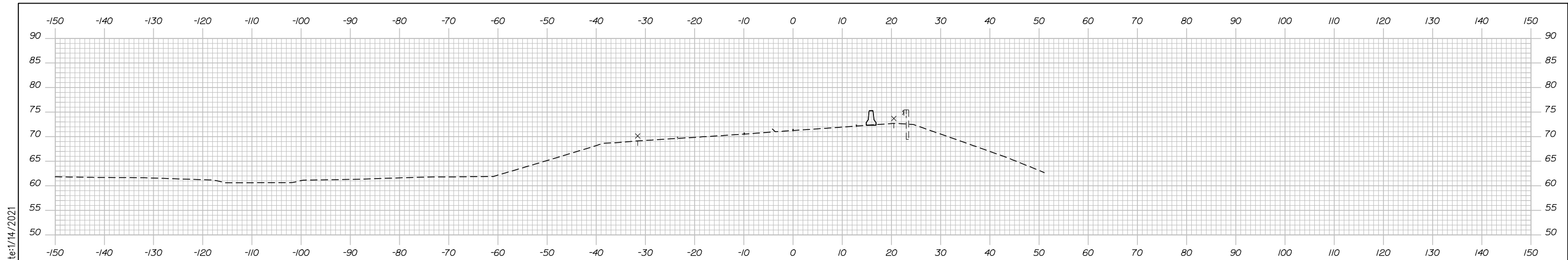
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

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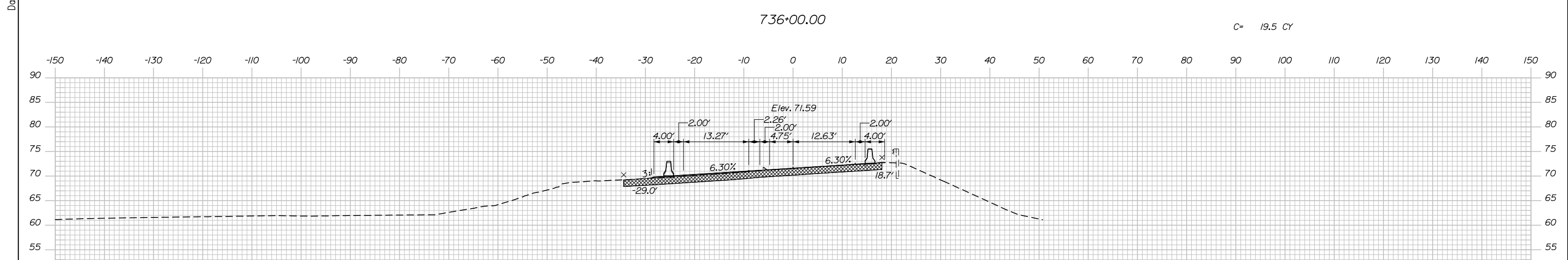
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Date: 1/14/2021



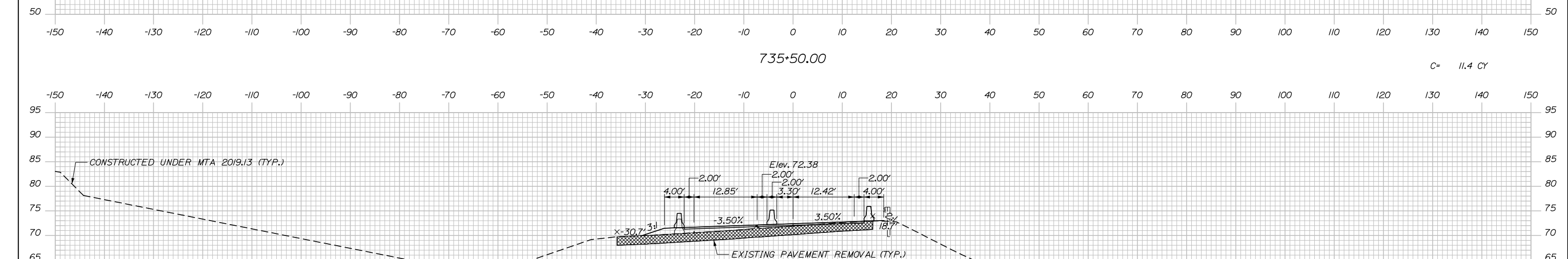
736+00.00

C= 19.5 CY



735+50.00

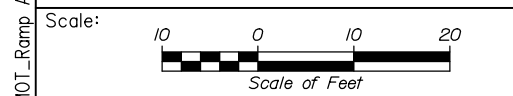
C= 11.4 CY



735+00.00

CONSTRUCTED UNDER MFA 2019.13 (TYP.)

EXISTING PAVEMENT REMOVAL (TYP.)



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	Checked	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP A/B**

SHEET NUMBER: MT-29
 CONTRACT: 2021.07
 43 OF 431

Filename: Xsect_MOT_Ramp_A-B.dgn

Date: 1/14/2021

CURVE DATA

CURVE #	BASELINE	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C1	EXIST. ROUTE 703	PC 2058+80.00	61.08' LT	950.00'	PT 2061+03.96	32.24' LT
C2	EXIST. ROUTE 703	PC 2062+00.00	21.65' RT	1062.00'	PT 2063+22.36	16.74' RT
C3	EXIST. ROUTE 703	PC 2065+00.00	21.64' RT	350.00'	PRC 2065+73.25	32.27' RT
C4	EXIST. ROUTE 703	PRC 2065+73.25	32.27' RT	700.00'	PT 2066+25.00	43.41' RT

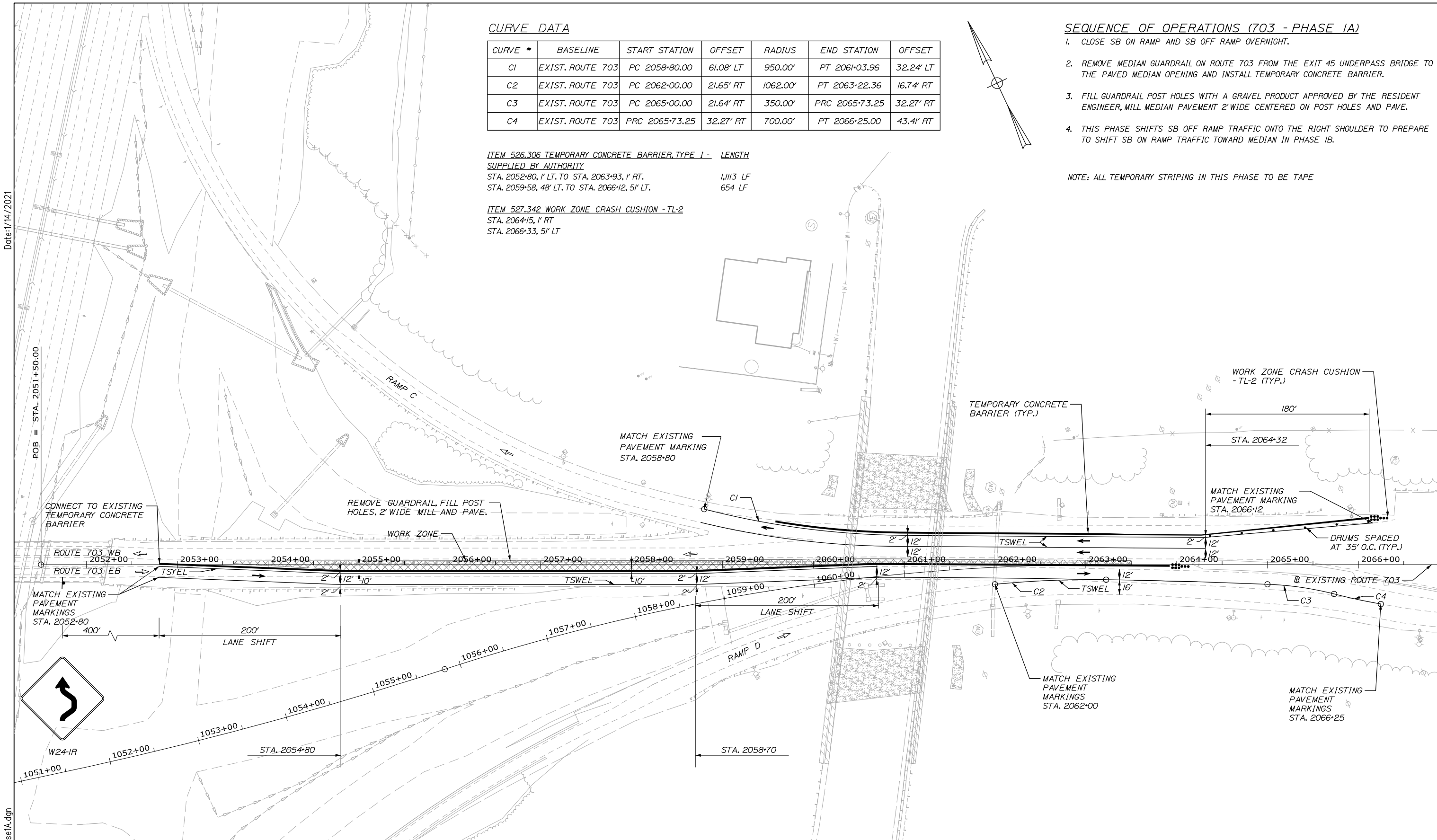
ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE 1 - LENGTH
 SUPPLIED BY AUTHORITY
 STA. 2052+80, 1' LT. TO STA. 2063+93, 1' RT. 1,113 LF
 STA. 2059+58, 48' LT. TO STA. 2066+12, 51' LT. 654 LF

ITEM 527.342 WORK ZONE CRASH CUSHION - TL-2
 STA. 2064+15, 1' RT
 STA. 2066+33, 51' LT

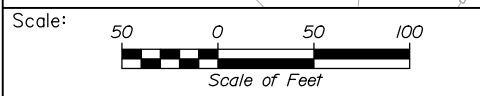
SEQUENCE OF OPERATIONS (703 - PHASE 1A)

1. CLOSE SB ON RAMP AND SB OFF RAMP OVERNIGHT.
2. REMOVE MEDIAN GUARDRAIL ON ROUTE 703 FROM THE EXIT 45 UNDERPASS BRIDGE TO THE PAVED MEDIAN OPENING AND INSTALL TEMPORARY CONCRETE BARRIER.
3. FILL GUARDRAIL POST HOLES WITH A GRAVEL PRODUCT APPROVED BY THE RESIDENT ENGINEER, MILL MEDIAN PAVEMENT 2' WIDE CENTERED ON POST HOLES AND PAVE.
4. THIS PHASE SHIFTS SB OFF RAMP TRAFFIC ONTO THE RIGHT SHOULDER TO PREPARE TO SHIFT SB ON RAMP TRAFFIC TOWARD MEDIAN IN PHASE 1B.

NOTE: ALL TEMPORARY STRIPING IN THIS PHASE TO BE TAPE



Filename: 0XX_MOT_703_Phase1A.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC ROUTE 703 PHASE 1A PLAN

SHEET NUMBER: MT-30
 CONTRACT: 2021.07
 44 OF 431

CURVE DATA

CURVE #	BASELINE	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C1	RAMP D	PC 419+14.16	28.34' RT	660.00'	PCC 420+00.00	11.07' RT
C2	RAMP D	PCC 420+00.00	11.07' RT	988.00'	PCC 421+05.50	2.73' LT
C3	EXIST. ROUTE 703	PCC 2060+87.40	51.24' RT	1050.00'	PT 2063+22.38	28.63' RT
C4	EXIST. ROUTE 703	PC 2058+80.00	61.08' LT	950.00'	PT 2061+03.96	32.24' LT
C5	EXIST. ROUTE 703	PC 2065+00.00	21.64' RT	350.00'	PRC 2065+73.25	32.27' RT
C6	EXIST. ROUTE 703	PRC 2065+73.25	32.27' RT	700.00'	PT 2066+25.00	43.41' RT

ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE 1 - LENGTH SUPPLIED BY AUTHORITY
 STA. 418+12, 56' RT. TO 2065+00, 37' RT 705 LF
 STA. 2052+80, 1' LT. TO STA. 2063+93, 1' RT. 1,113 LF
 STA. 2053+33, 20' LT. TO STA. 2059+23, 25' LT. 590 LF
 STA. 2057+50, 76' LT. TO STA. 2059+23, 27' LT. 173 LF
 STA. 2059+58, 48' LT. TO STA. 2066+12, 51' LT. 654 LF

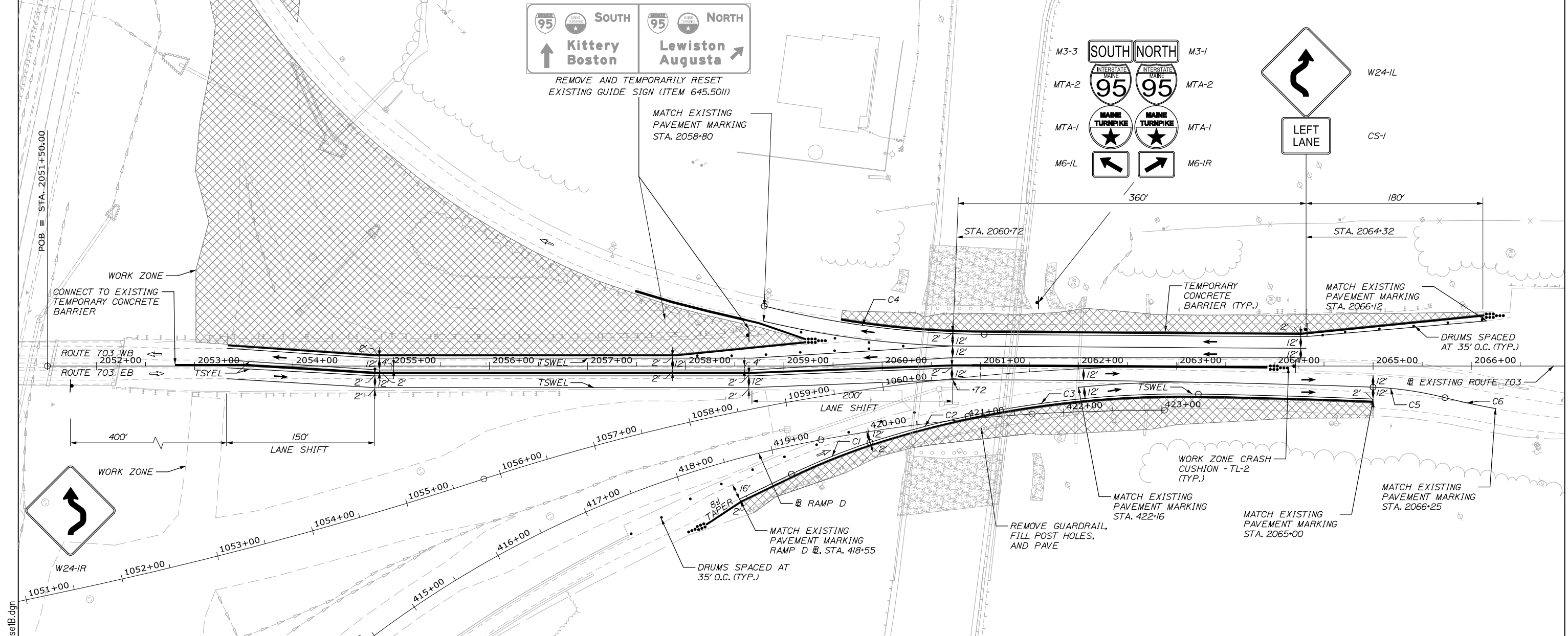
ITEM 527.342 WORK ZONE CRASH CUSHION - TL-2
 STA. 417+92, 56' RT.

SEQUENCE OF OPERATIONS (703 - PHASE 1B)

1. CLOSE SB ON RAMP AND NB ON RAMP OVERNIGHT.
2. INSTALL TEMPORARY CONCRETE BARRIER ALONG 703 WESTBOUND RIGHT SHOULDER AND RAMP C LEFT SHOULDER WITH A WORK ZONE CRASH CUSHION TL-3 ARRAY FOR PROTECTION IN THE RAMP GORE.
3. INSTALL TEMPORARY PAVEMENT MARKINGS ON ROUTE 703 WESTBOUND (SB ON RAMP) FOR TRAFFIC SHIFT TOWARD MEDIAN.
4. THIS PHASE ALLOWS CONSTRUCTION OF BOTH RAMP C TRAVEL LANES FULL WIDTH IN PREPARATION FOR SHIFTING TRAFFIC ONTO RAMP C TRAVEL LANES.
5. MOT RAMP C AS SHOWN IN PHASE 2 MAY BE OPENED TO TRAFFIC WHILE OTHER AREAS IN PHASE 1B ARE STILL UNDER CONSTRUCTION.

NOTE: ALL TEMPORARY STRIPING IN THIS PHASE TO BE TAPE

Date: 1/14/2021



Scale: 50 0 50 100
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

MAINTENANCE OF TRAFFIC ROUTE 703 PHASE 1B PLAN

SHEET NUMBER: MT-31

CONTRACT: 2021.07

45 OF 431

Date: 1/14/2021

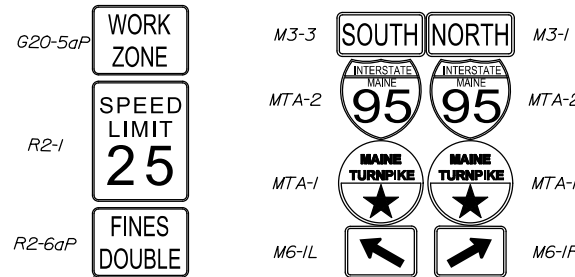
Filename: 0XX_MOT_703_Phase2.dgn

CURVE DATA

CURVE #	BASELINE	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C1	RAMP D	PC 418+49.51	40.93' RT	650.00'	PT 420+79.03	18.00' RT
C2	MOT ROUTE 703	PC 2062+46.06	54.23' RT	1500.00'	PT 2064+12.25	45.00' RT
C3	MOT ROUTE 703	PC 2064+77.17	45.00' LT	750.00'	PT 2066+14.41	57.66' LT
C4	MOT ROUTE 703	PC 2064+98.67	33.00' LT	766.00'	PT 2066+38.83	45.93' LT

STA. 82+75.00 MOT RAMP C @ =
STA. 52+75.00 MOT ROUTE 703 @, 12' RT.

NOTE: PROPOSED LIGHTS AT STA. 301+50 AND STA. 303+25 SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO OPENING MOT RAMP C TO TRAFFIC.



3-#4 AWG XHHW WIRE HORIZONTAL DIRECTIONAL DRILL 3" CONDUIT FOR TEMPORARY HIGHWAY LIGHTING POWER

CONNECT TEMPORARY POWER FOR HIGHWAY LIGHTING TO EXISTING LIGHT CIRCUIT

LIMIT OF FULL CONSTRUCTION 25'

R11-2 ON TYPE III BARRICADES



MILL & PAVE TEMPORARY RAMP DURING RAMP CLOSURES

SECURE CATCH BASIN GRATE

SEQUENCE OF OPERATIONS (703 - PHASE 2)

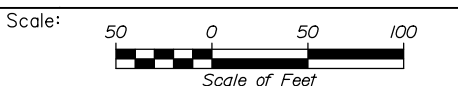
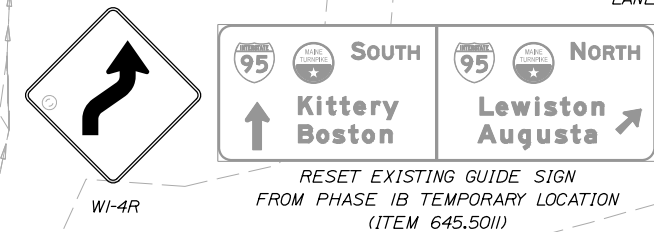
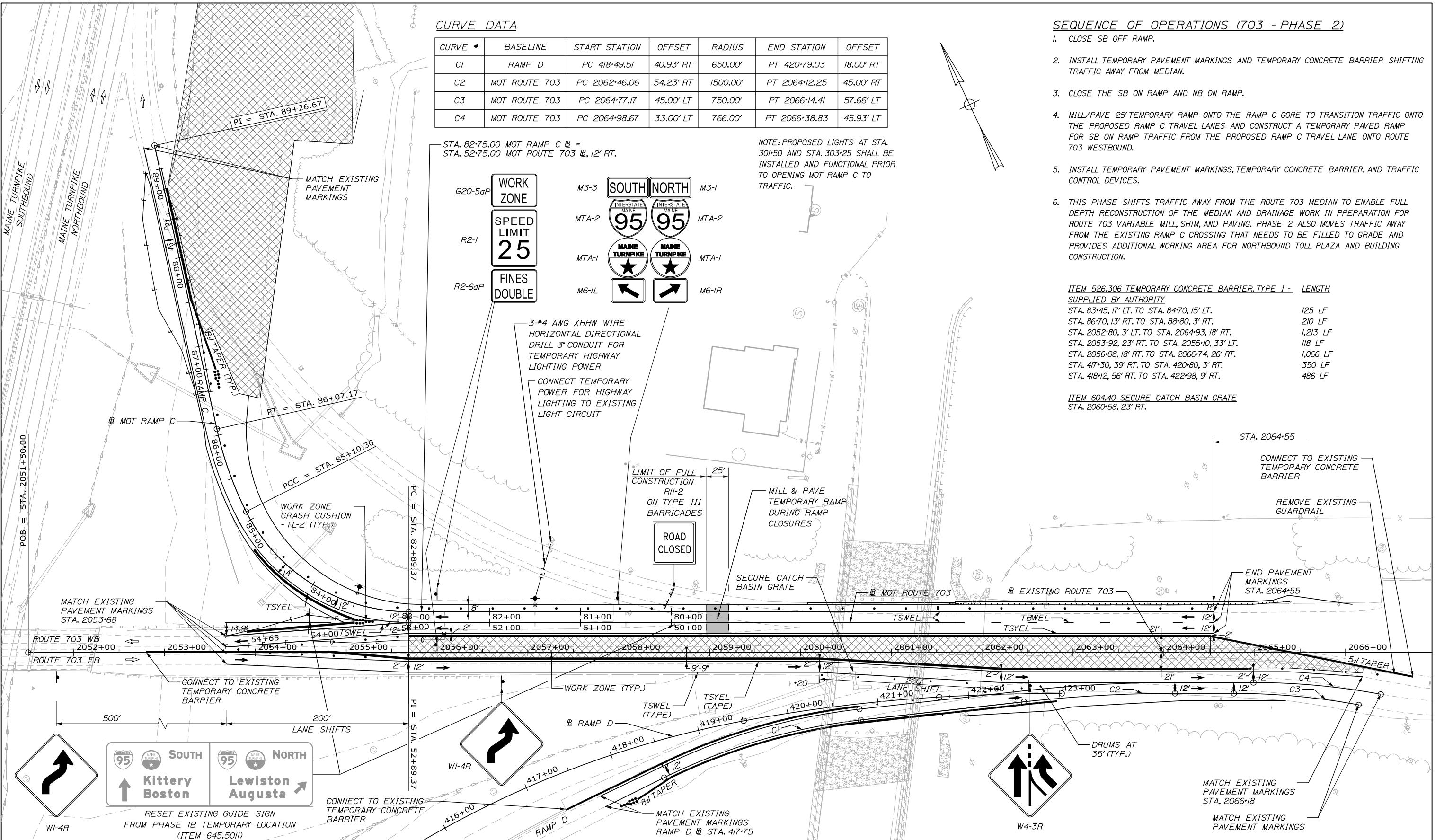
1. CLOSE SB OFF RAMP.
2. INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY CONCRETE BARRIER SHIFTING TRAFFIC AWAY FROM MEDIAN.
3. CLOSE THE SB ON RAMP AND NB ON RAMP.
4. MILL/PAVE 25' TEMPORARY RAMP ONTO THE RAMP C GORE TO TRANSITION TRAFFIC ONTO THE PROPOSED RAMP C TRAVEL LANES AND CONSTRUCT A TEMPORARY PAVED RAMP FOR SB ON RAMP TRAFFIC FROM THE PROPOSED RAMP C TRAVEL LANE ONTO ROUTE 703 WESTBOUND.
5. INSTALL TEMPORARY PAVEMENT MARKINGS, TEMPORARY CONCRETE BARRIER, AND TRAFFIC CONTROL DEVICES.
6. THIS PHASE SHIFTS TRAFFIC AWAY FROM THE ROUTE 703 MEDIAN TO ENABLE FULL DEPTH RECONSTRUCTION OF THE MEDIAN AND DRAINAGE WORK IN PREPARATION FOR ROUTE 703 VARIABLE MILL, SHIM, AND PAVING. PHASE 2 ALSO MOVES TRAFFIC AWAY FROM THE EXISTING RAMP C CROSSING THAT NEEDS TO BE FILLED TO GRADE AND PROVIDES ADDITIONAL WORKING AREA FOR NORTHBOUND TOLL PLAZA AND BUILDING CONSTRUCTION.

ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE 1 - LENGTH SUPPLIED BY AUTHORITY

STATION RANGE	LENGTH
STA. 83+45, 17' LT. TO STA. 84+70, 15' LT.	125 LF
STA. 86+70, 13' RT. TO STA. 88+80, 3' RT.	210 LF
STA. 2052+80, 3' LT. TO STA. 2064+93, 18' RT.	1,213 LF
STA. 2053+92, 23' RT. TO STA. 2055+10, 33' LT.	118 LF
STA. 2056+08, 18' RT. TO STA. 2066+74, 26' RT.	1,066 LF
STA. 417+30, 39' RT. TO STA. 420+80, 3' RT.	350 LF
STA. 418+12, 56' RT. TO STA. 422+98, 9' RT.	486 LF

ITEM 604.40 SECURE CATCH BASIN GRATE

STA. 2060+58, 23' RT.



Designed by:

HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	TRC 09\20	Checked	JRH 09\20
Drawn	LAD 09\20	In Charge of	RAL 09\20

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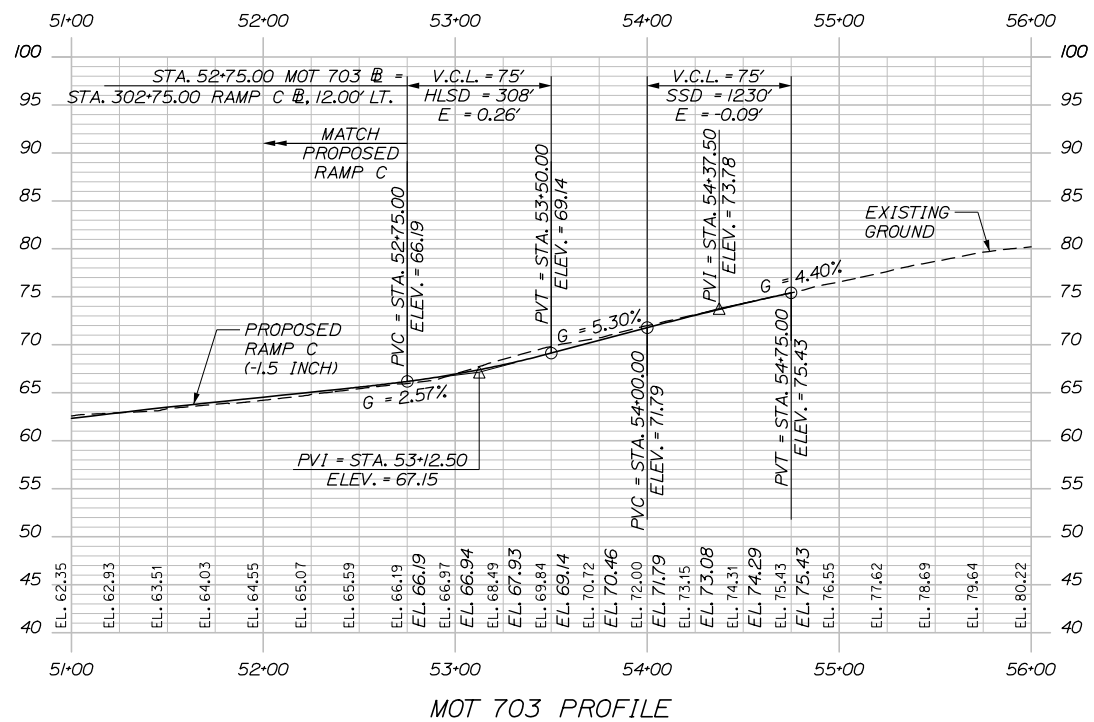
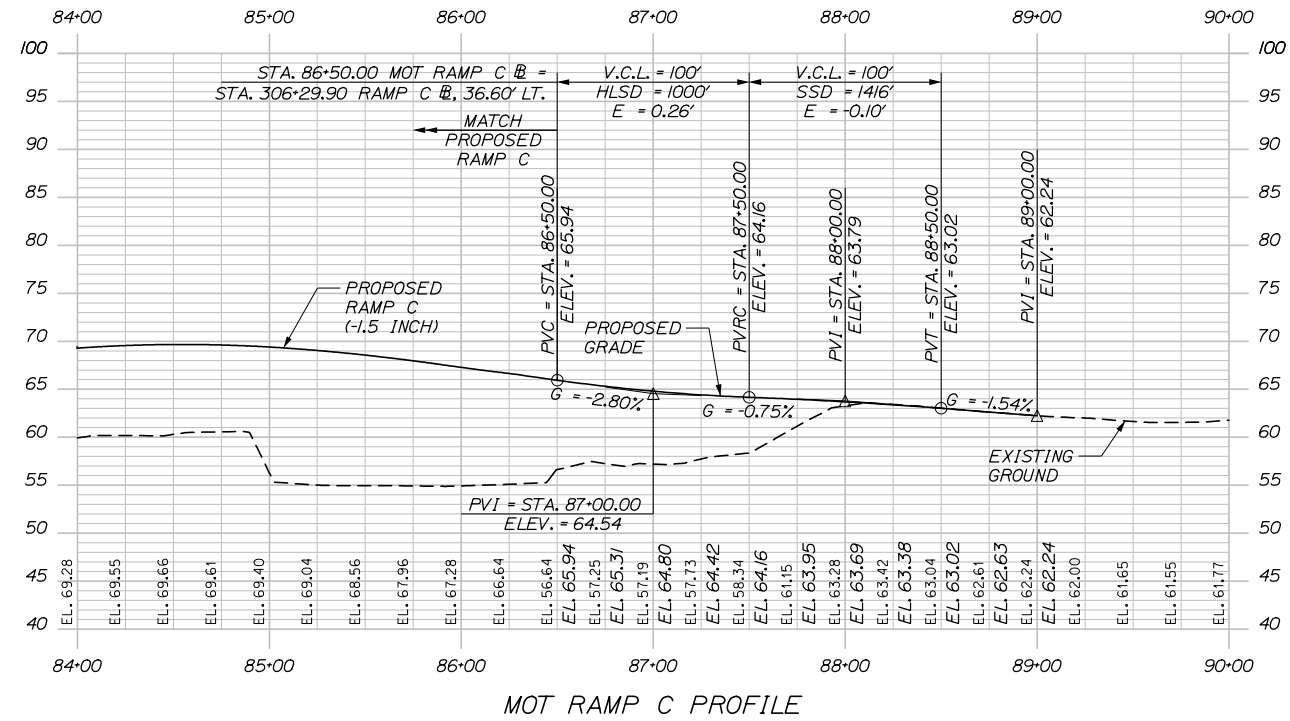
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

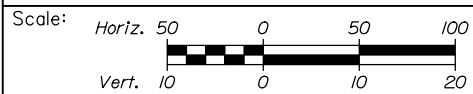
EXIT 45 INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
ROUTE 703 & RAMP C PHASE 2 PLAN

SHEET NUMBER: MT-32
CONTRACT: 2021.07
46 OF 431

Date: 1/14/2021



Filename: 0XX_MOT_703_Phase2_Profiles.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

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Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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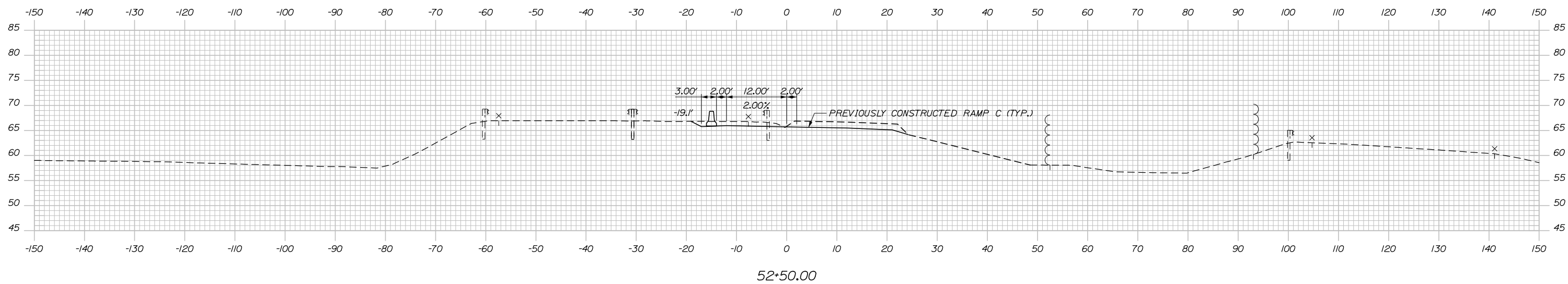
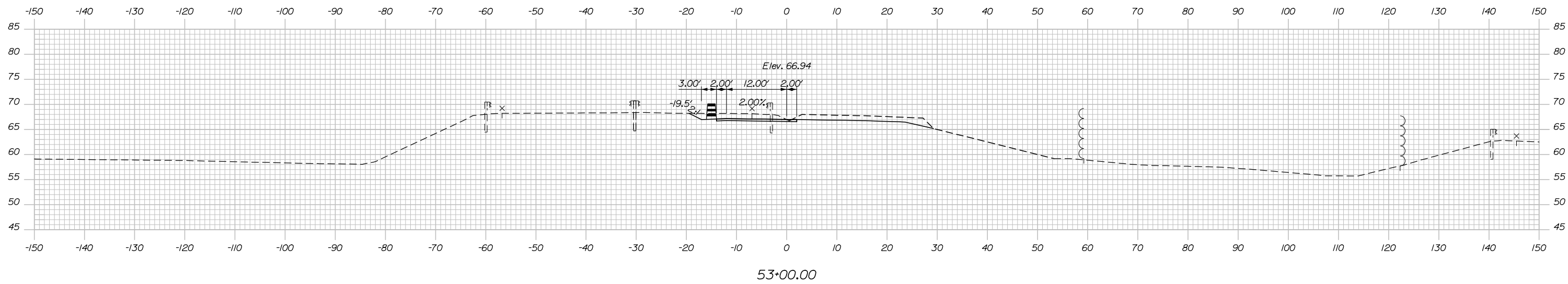
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

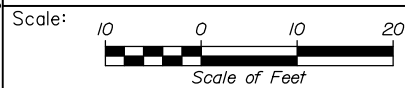
**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
ROUTE 703 & RAMP C PHASE 2 PROFILES**

SHEET NUMBER: MT-33
CONTRACT: 2021.07
47 OF 431

Date: 1/14/2021



Filename: Xsect_M0T_703.dgn



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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - ROUTE 703 PHASE 2

SHEET NUMBER: MT-34

No.	Revision	By	Date

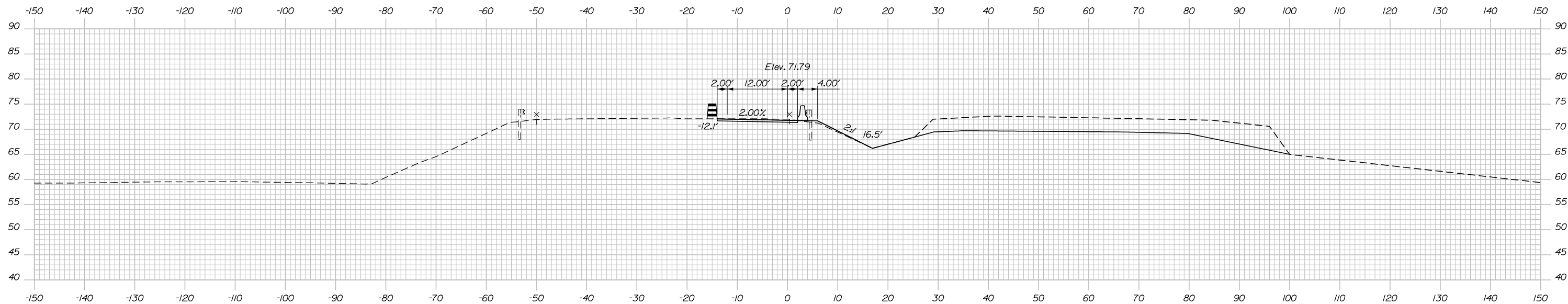
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.	
Designed	By TRC Date 09\20
Checked	By JRH Date 09\20
Drawn	By LAD Date 09\20
In Charge of	By RAL Date 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

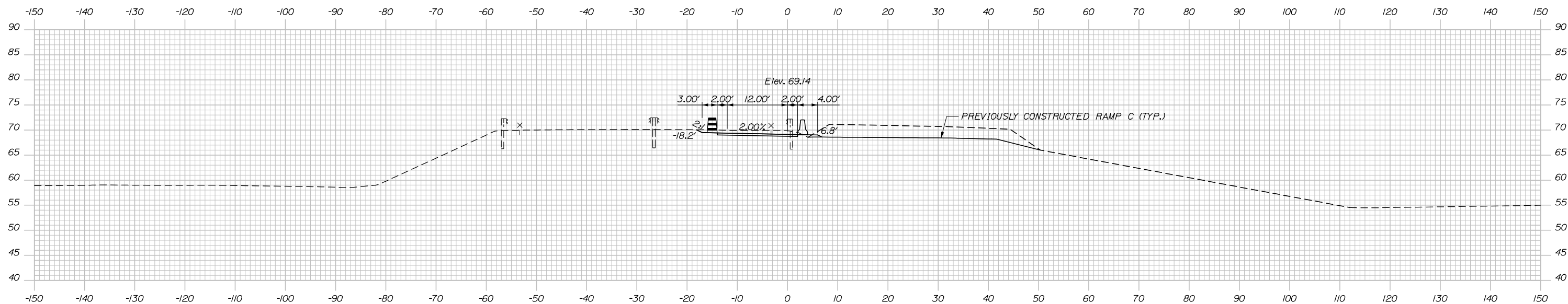
CONTRACT: 2021.07

48 OF 431

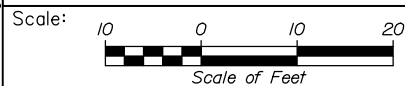
Date:



54+00.00



53+50.00



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EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - ROUTE 703 PHASE 2

SHEET NUMBER: MT-35

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

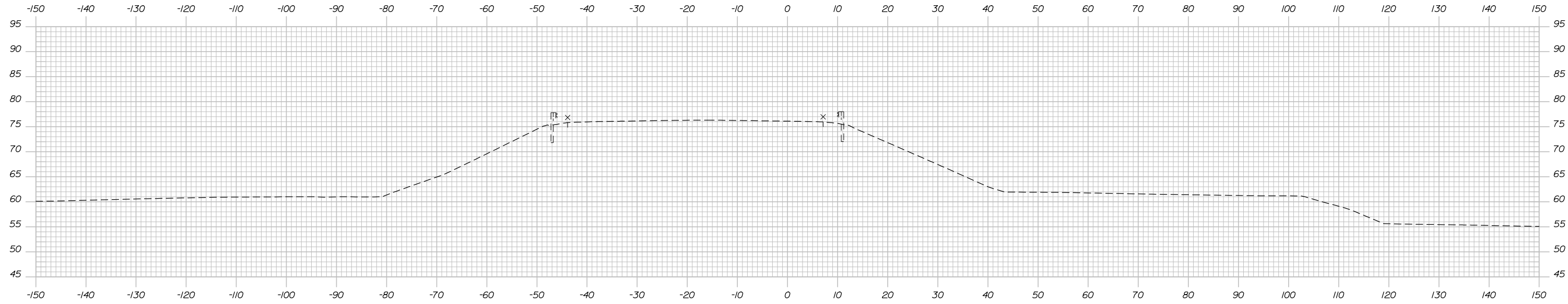
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT:2021.07

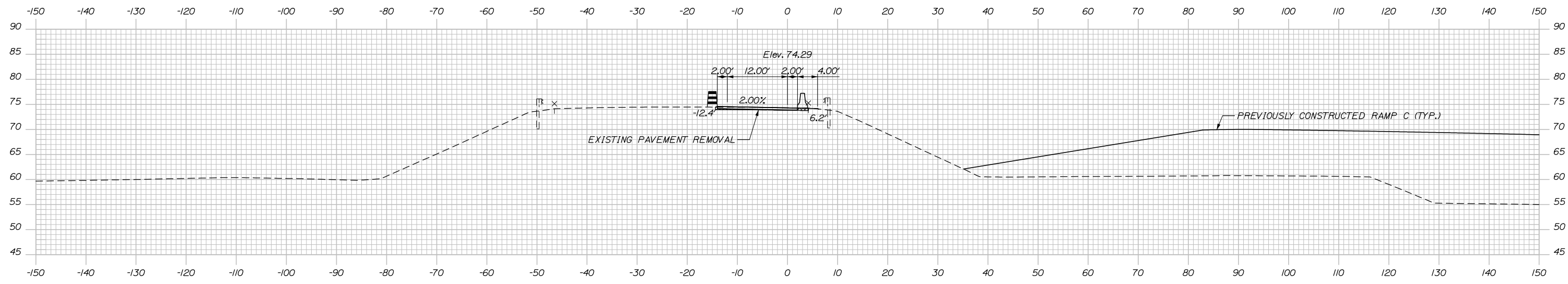
49 OF 431

Filename: Xsect_M0T_703.dgn

Date:



55+00.00



54+50.00

Filename: Xsect_M0T_703.dgn



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**EXIT 45
INTERCHANGE RECONFIGURATION**
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - ROUTE 703 PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

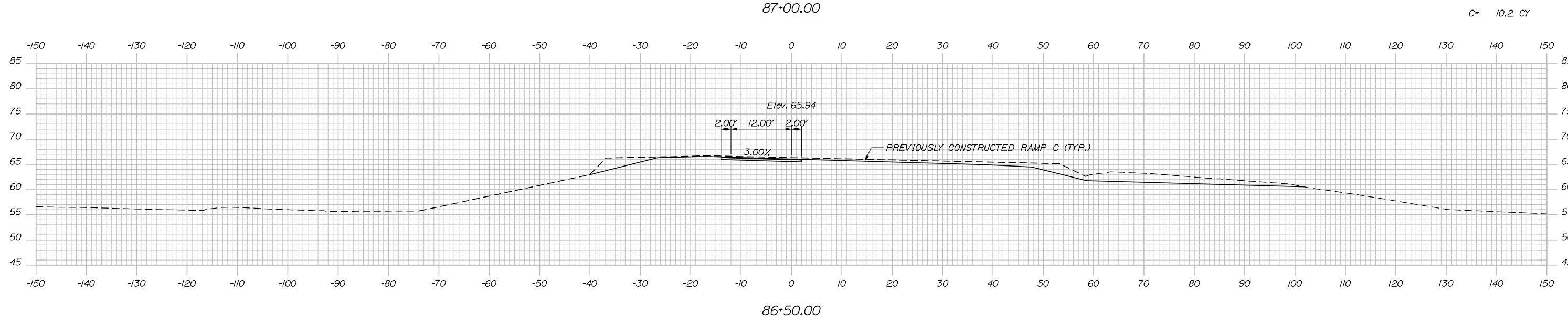
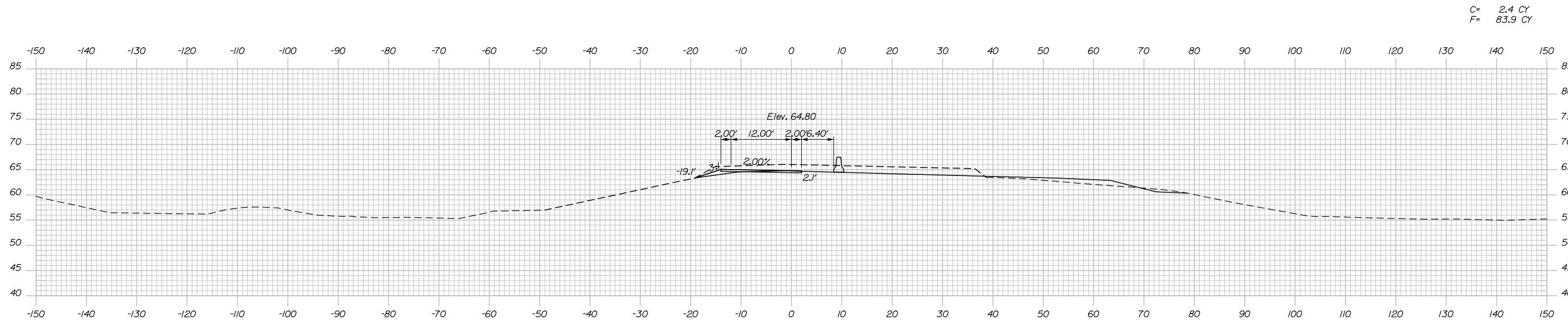
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT:2021.07

SHEET NUMBER: MT-36

50 OF 431

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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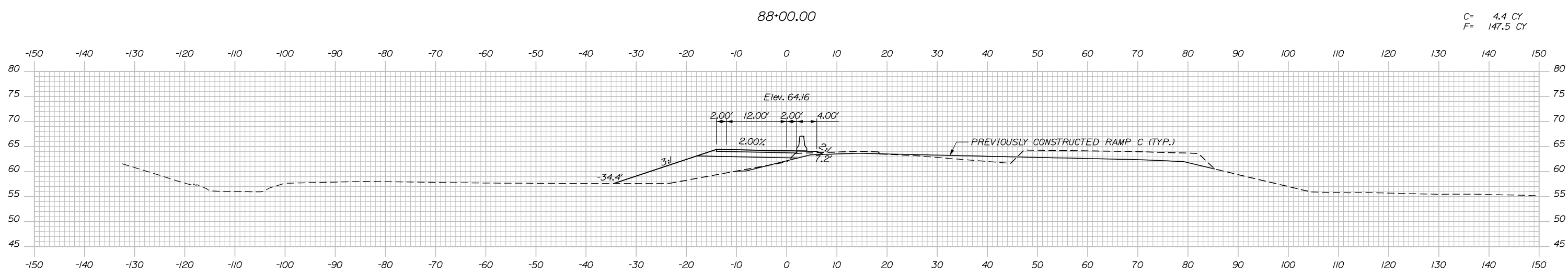
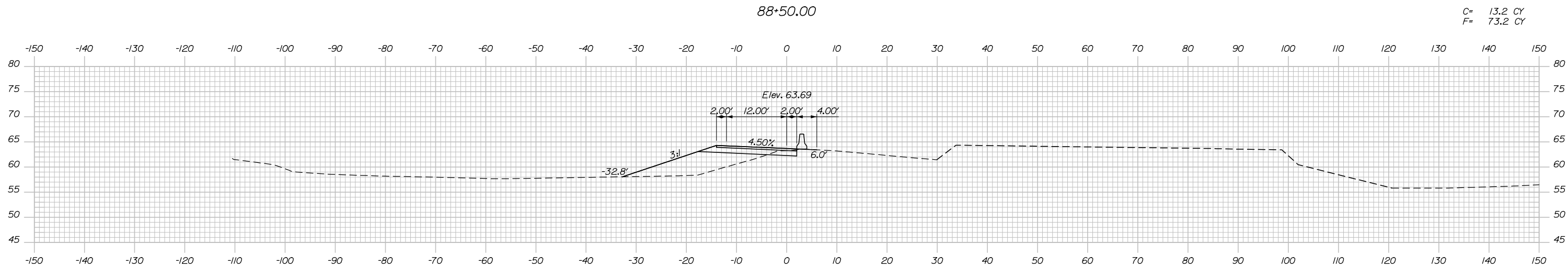
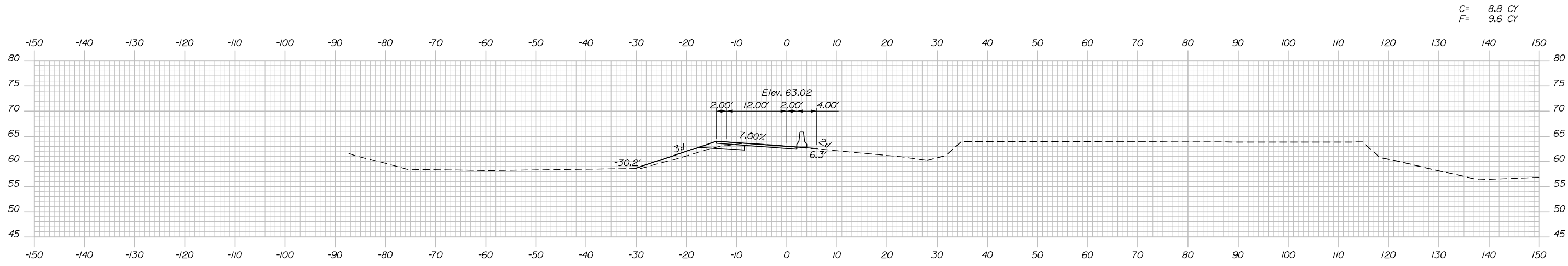
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP C PHASE 2

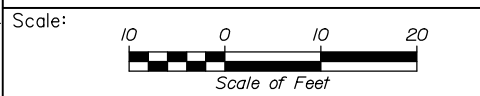
SHEET NUMBER: MT-37
 CONTRACT: 2021.07
 51 OF 431

Filename: Xsect_MOT_Ramp_C.dgn

Date: 1/14/2021



Filename: Xsect_MOT_Ramp_C.dgn



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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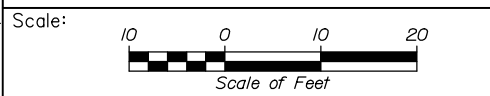
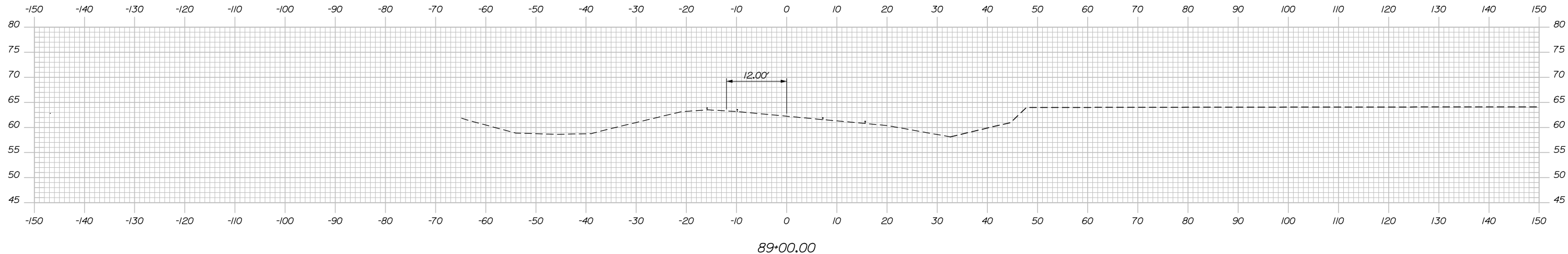
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP C PHASE 2**

SHEET NUMBER: MT-38
 CONTRACT: 2021.07
 52 OF 431

Date: 1/14/2021

Filename: Xsect_MOT_Ramp_C.dgn



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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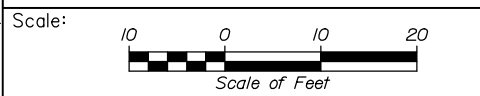
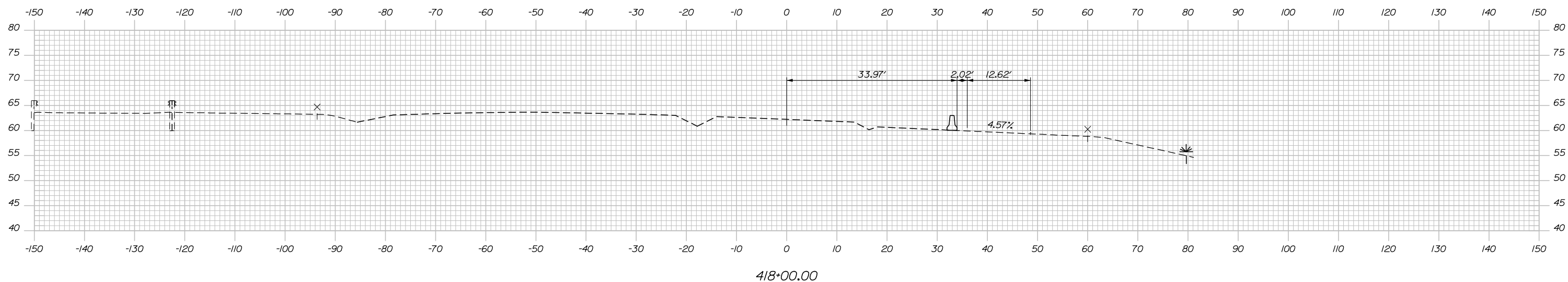
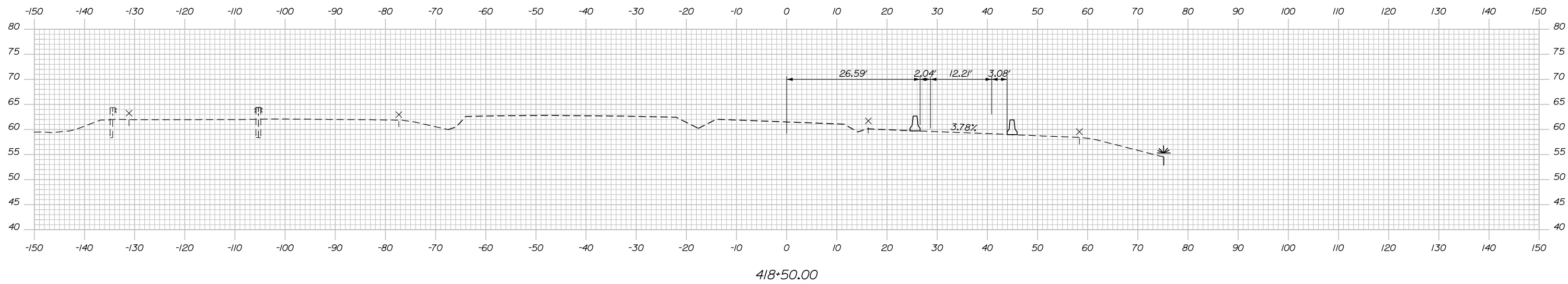
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP C PHASE 2

SHEET NUMBER: MT-39

CONTRACT: 2021.07 53 OF 431

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

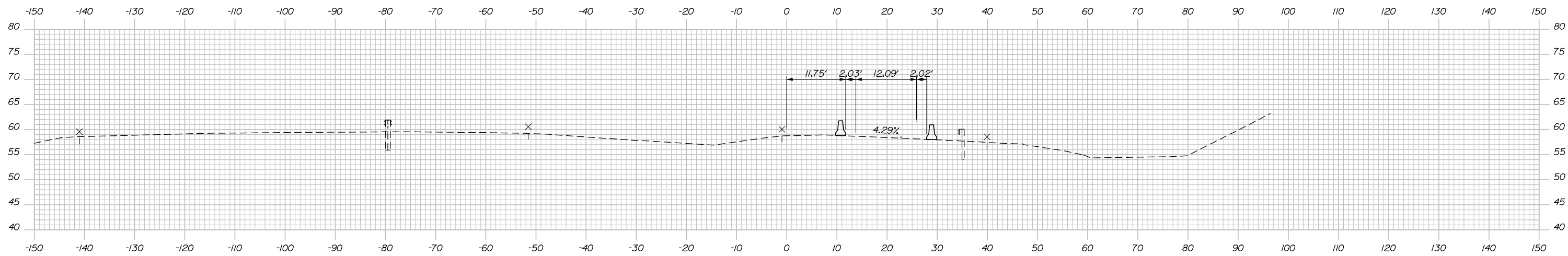
**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-40
 CONTRACT: 2021.07
 54 OF 431

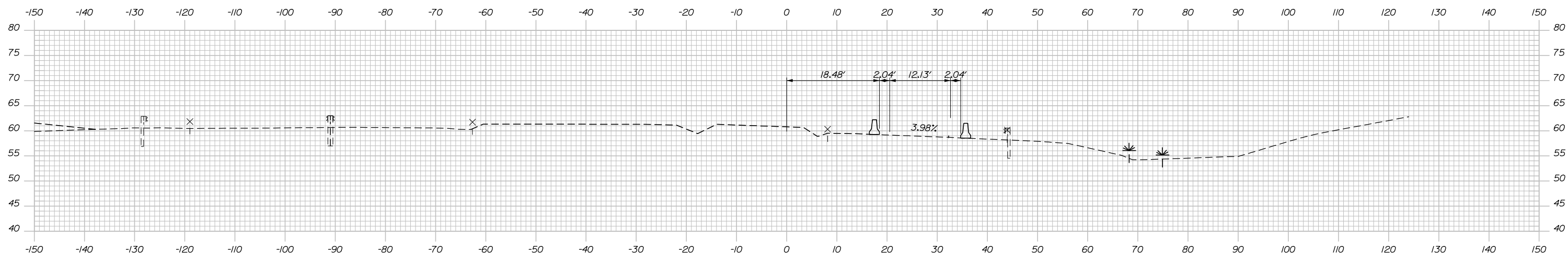
Filename: Xsect_MOT_Ramp D.dgn

Date: 1/14/2021

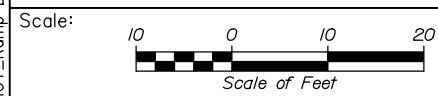
Filename: Xsect_MOT_Ramp D.dgn



419+50.00



419+00.00



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EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP D PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

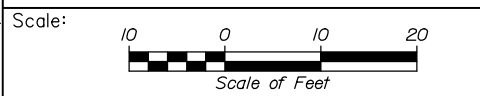
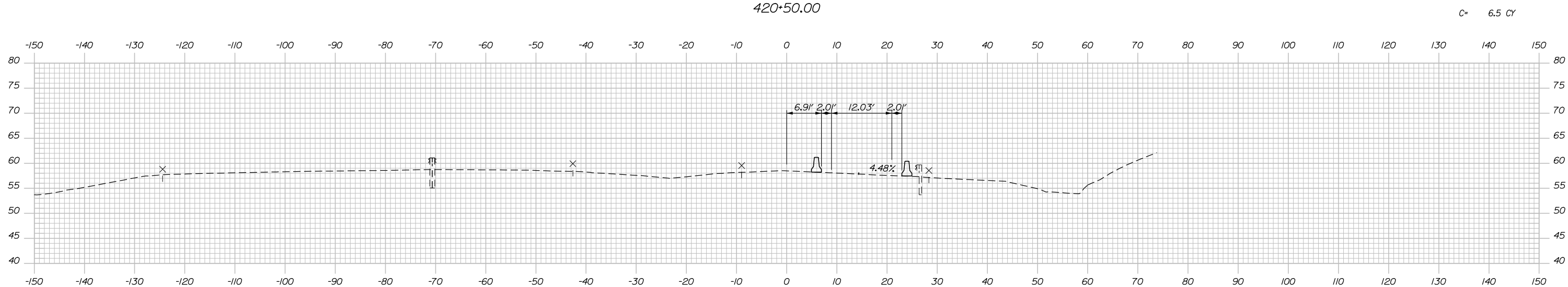
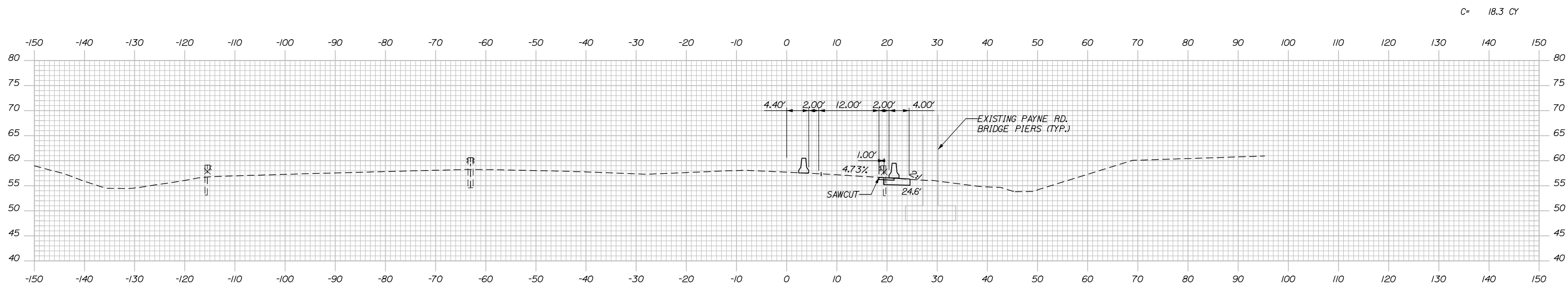
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: MT-41

55 OF 431

Date: 1/14/2021



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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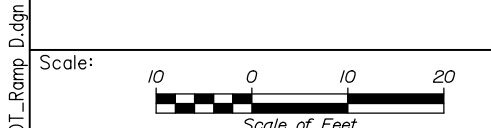
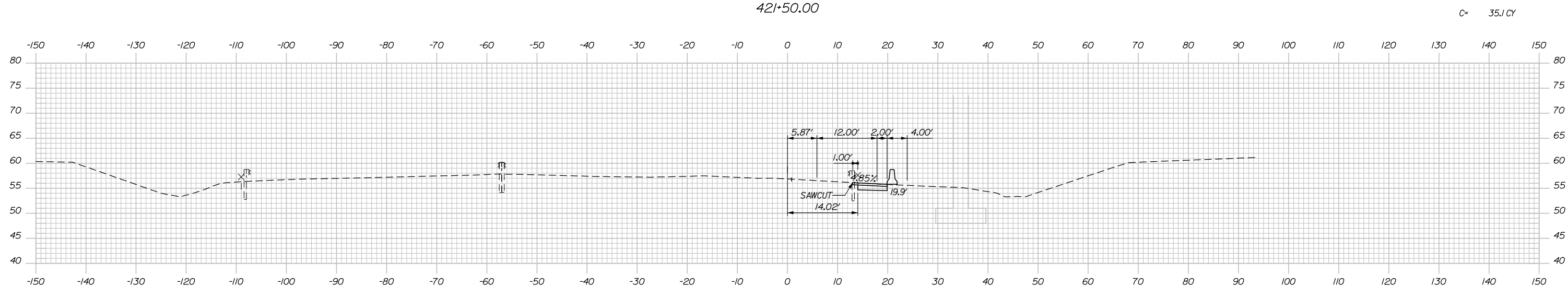
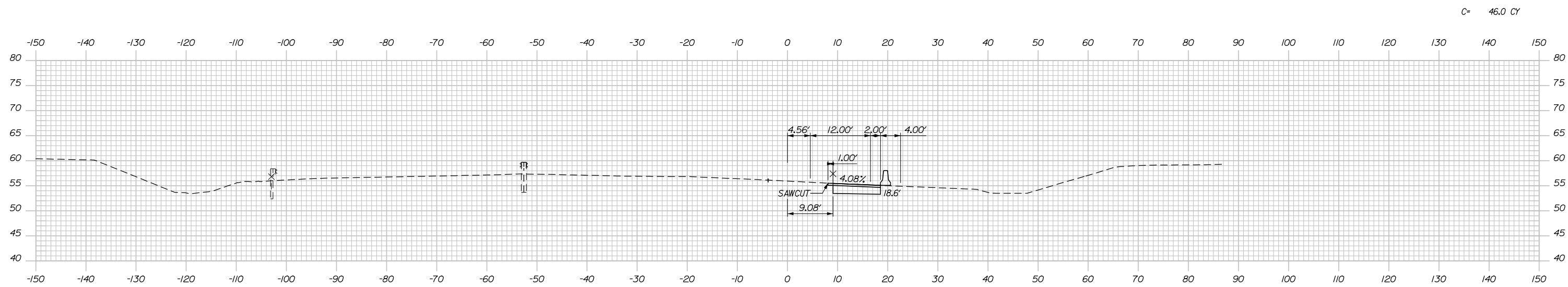
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-42
 CONTRACT: 2021.07
 56 OF 431

Filename: Xsect_MOT_Ramp D.dgn

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP D PHASE 2**

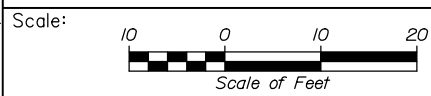
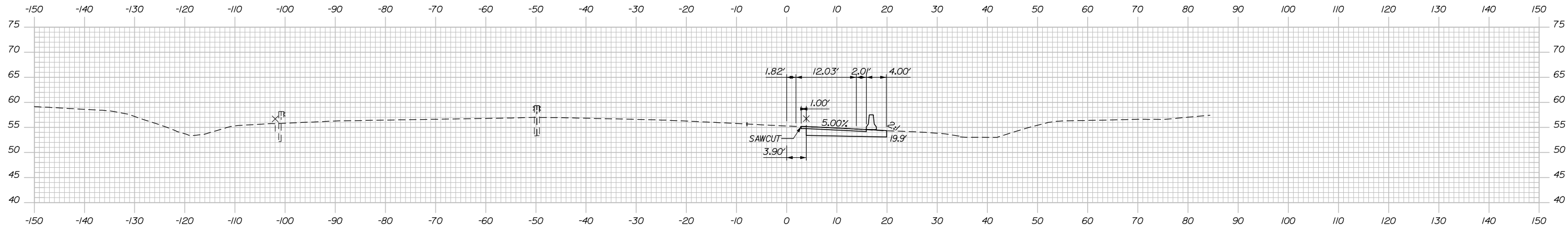
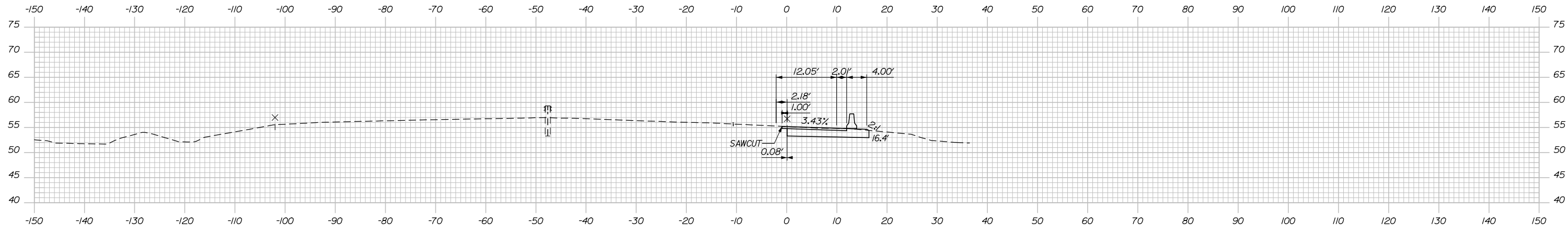
CONTRACT: 2021.07

SHEET NUMBER: MT-43

57 OF 431

Filename: Xsect_MOT_Ramp D.dgn

Date: 1/14/2021



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
CROSS SECTIONS - RAMP D PHASE 2**

CONTRACT: 2021.07

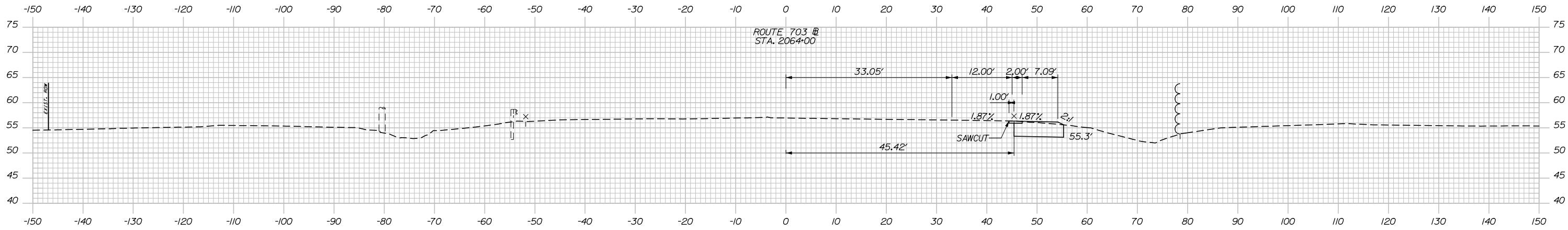
SHEET NUMBER: MT-44

58 OF 431

Filename: Xsect_MOT_Ramp D.dgn

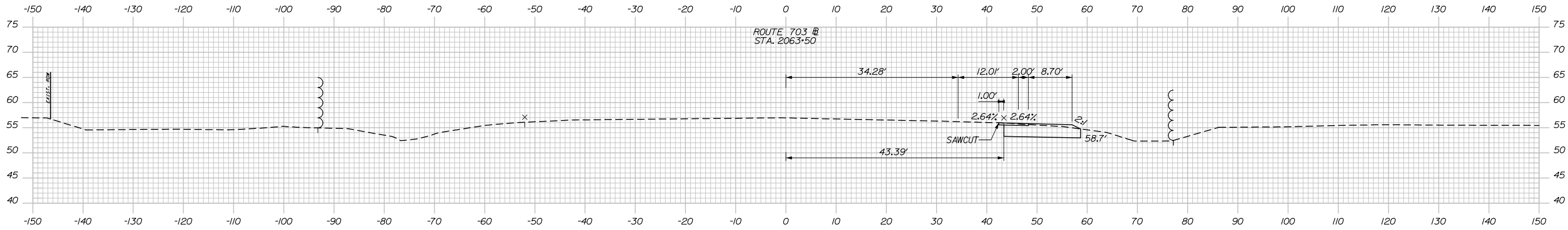
Date:

C= 40.7 CY



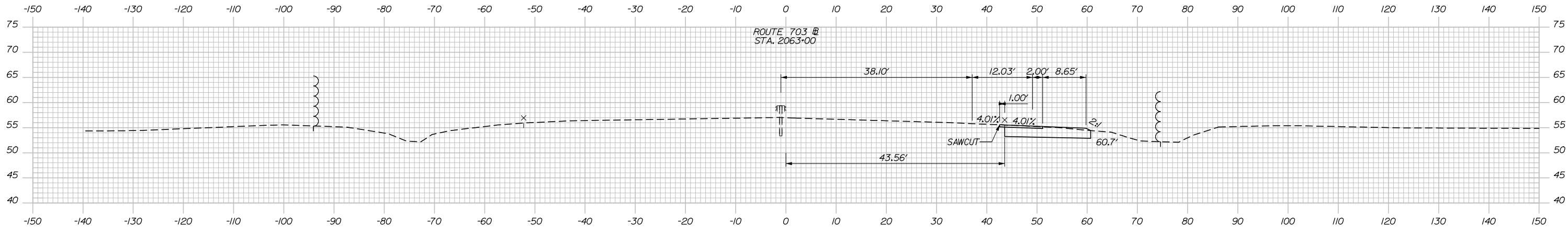
2064+00.00

C= 58.5 CY



2063+50.00

C= 65.1 CY



2063+00.00

C= 76.7 CY

Filename: Xsect_M0T_703.dgn



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EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 CROSS SECTIONS - ROUTE 703 PHASE 2

SHEET NUMBER: MT-45

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date	By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT:2021.07

59 OF 431

Date: 1/14/2021

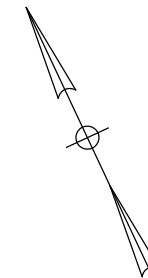
CURVE DATA

CURVE #	BASELINE	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C1	RAMP D	PC 418+49.51	40.93' RT	650.00'	PT 420+79.03	18.00' RT
C2	EXIST. ROUTE 703	PC 2062+46.06	54.23' RT	1500.00'	PT 2064+12.25	45.00' RT
C3	EXIST. ROUTE 703	PC 2061+81.00	3.00' LT	1000.00'	PRC 2063+15.82	6.14' RT
C4	EXIST. ROUTE 703	PRC 2063+15.82	6.14' RT	7500.00'	PRC 2065+75.43	36.86' RT
C5	EXIST. ROUTE 703	PC 2064+77.17	45.00' RT	750.00'	PRC 2065+14.41	57.66' RT
C6	EXIST. ROUTE 703	PC 2064+98.66	33.00' RT	766.00'	PRC 2066+38.82	45.93' RT

ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE I - LENGTH SUPPLIED BY AUTHORITY

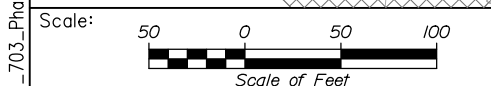
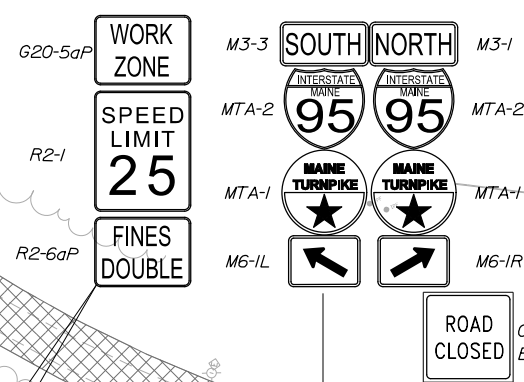
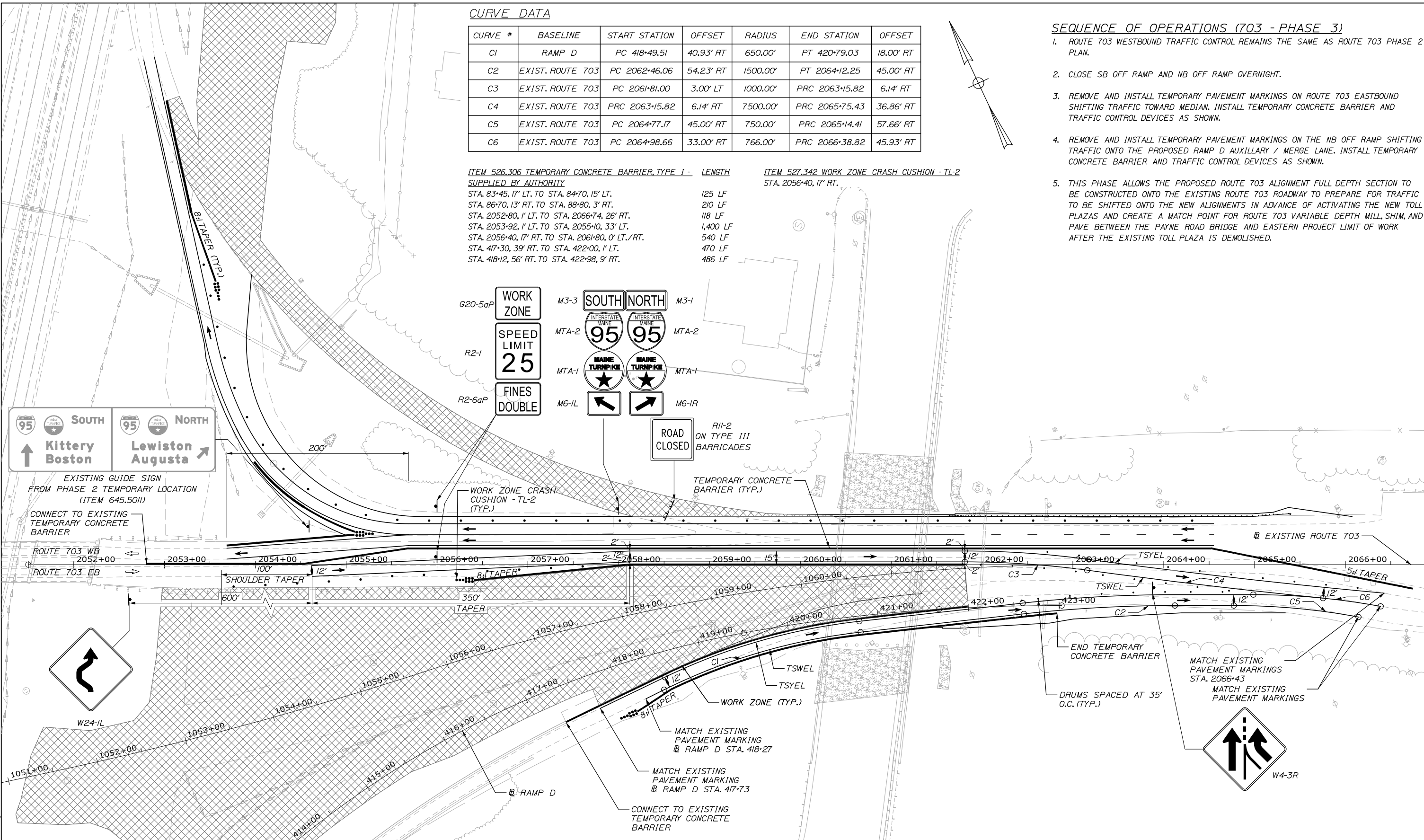
STA. 83+45, 17' LT. TO STA. 84+70, 15' LT. 125 LF
 STA. 86+70, 13' RT. TO STA. 88+80, 3' RT. 210 LF
 STA. 2052+80, 1' LT. TO STA. 2066+74, 26' RT. 118 LF
 STA. 2053+92, 1' LT. TO STA. 2055+10, 33' LT. 1,400 LF
 STA. 2056+40, 17' RT. TO STA. 2061+80, 0' LT./RT. 540 LF
 STA. 417+30, 39' RT. TO STA. 422+00, 1' LT. 470 LF
 STA. 418+12, 56' RT. TO STA. 422+98, 9' RT. 486 LF

ITEM 527.342 WORK ZONE CRASH CUSHION - TL-2 STA. 2056+40, 17' RT.



SEQUENCE OF OPERATIONS (703 - PHASE 3)

- ROUTE 703 WESTBOUND TRAFFIC CONTROL REMAINS THE SAME AS ROUTE 703 PHASE 2 PLAN.
- CLOSE SB OFF RAMP AND NB OFF RAMP OVERNIGHT.
- REMOVE AND INSTALL TEMPORARY PAVEMENT MARKINGS ON ROUTE 703 EASTBOUND SHIFTING TRAFFIC TOWARD MEDIAN. INSTALL TEMPORARY CONCRETE BARRIER AND TRAFFIC CONTROL DEVICES AS SHOWN.
- REMOVE AND INSTALL TEMPORARY PAVEMENT MARKINGS ON THE NB OFF RAMP SHIFTING TRAFFIC ONTO THE PROPOSED RAMP D AUXILIARY / MERGE LANE. INSTALL TEMPORARY CONCRETE BARRIER AND TRAFFIC CONTROL DEVICES AS SHOWN.
- THIS PHASE ALLOWS THE PROPOSED ROUTE 703 ALIGNMENT FULL DEPTH SECTION TO BE CONSTRUCTED ONTO THE EXISTING ROUTE 703 ROADWAY TO PREPARE FOR TRAFFIC TO BE SHIFTED ONTO THE NEW ALIGNMENTS IN ADVANCE OF ACTIVATING THE NEW TOLL PLAZAS AND CREATE A MATCH POINT FOR ROUTE 703 VARIABLE DEPTH MILL, SHIM, AND PAVE BETWEEN THE PAYNE ROAD BRIDGE AND EASTERN PROJECT LIMIT OF WORK AFTER THE EXISTING TOLL PLAZA IS DEMOLISHED.



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

MAINTENANCE OF TRAFFIC ROUTE 703 PHASE 3 PLAN

SHEET NUMBER: MT-46

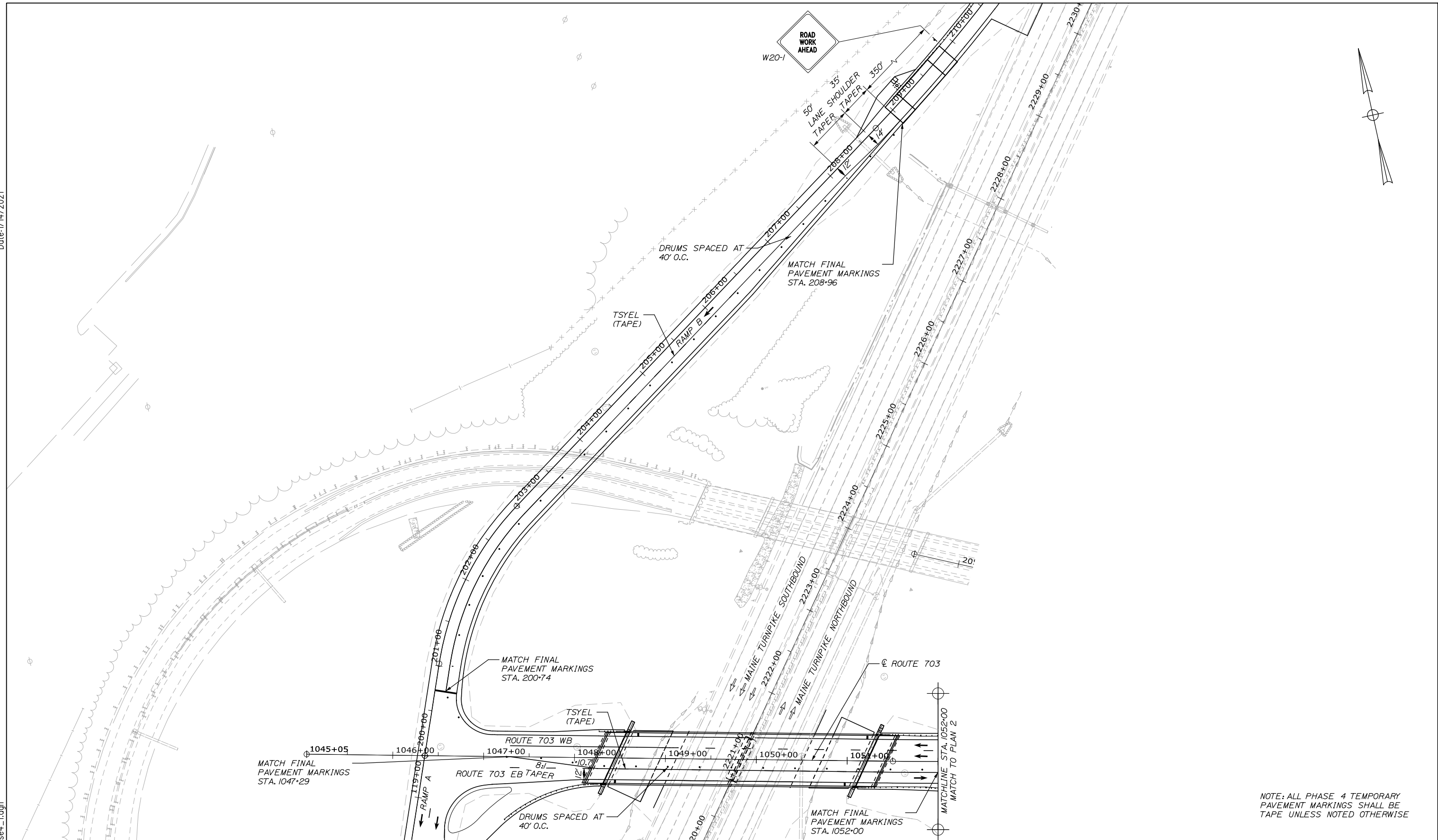
CONTRACT: 2021.07

60 OF 431

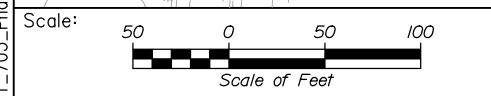
Filename: 0XX_MOT_703_Phase3.dgn

Date: 1/14/2021

Filename: OXX_MOT_703_Phase4_1.dgn



NOTE: ALL PHASE 4 TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE UNLESS NOTED OTHERWISE



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	KSR	09\20	Checked	JRH	09\20
Drawn	KSR	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
ROUTE 703 PHASE 4 PLAN 1

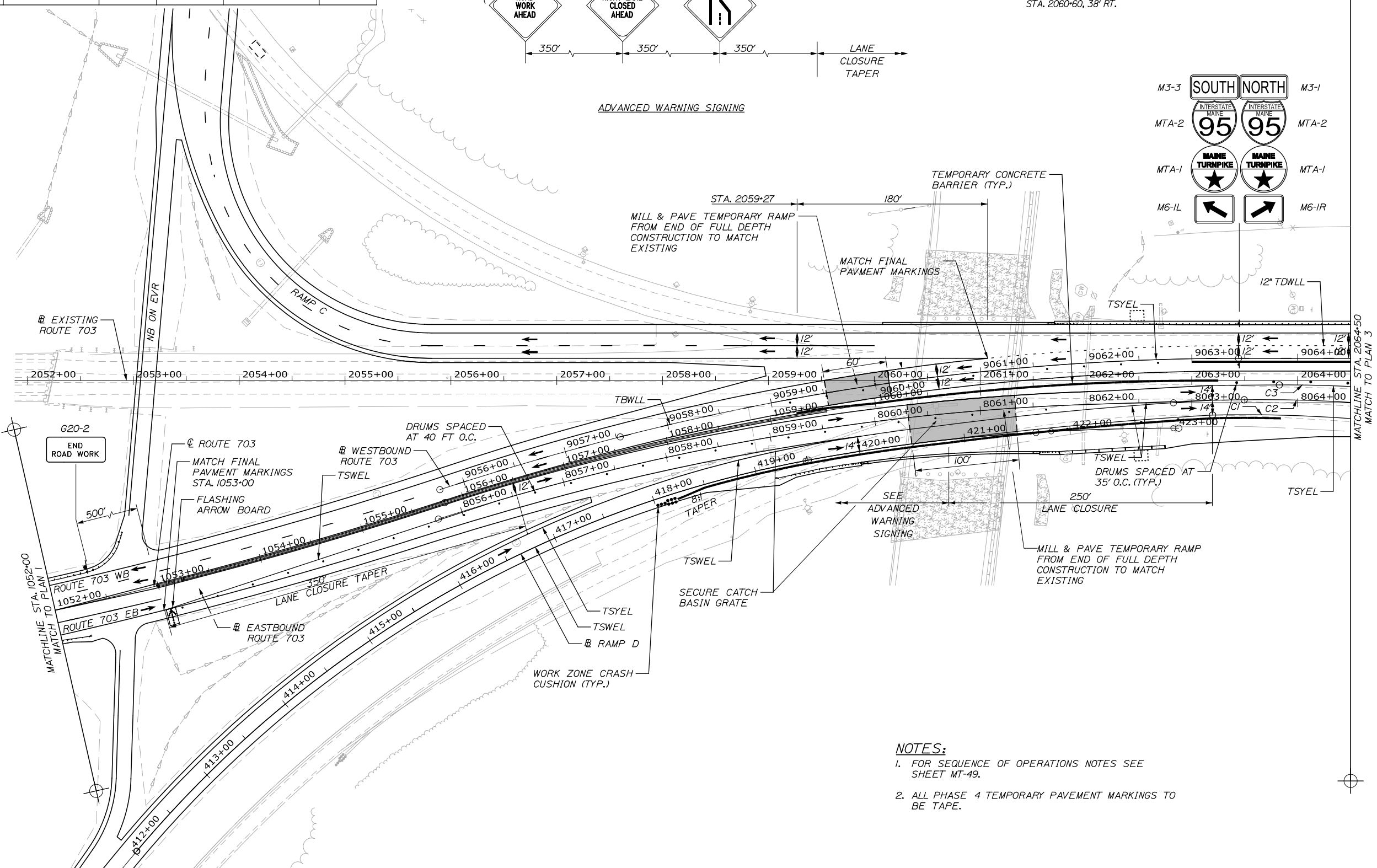
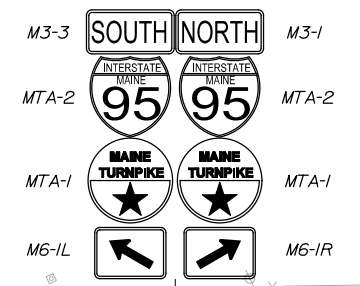
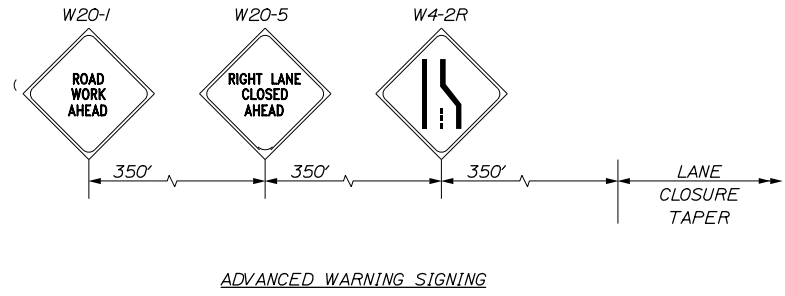
SHEET NUMBER: MT-47
 CONTRACT: 2021.07
 61 OF 431

CURVE DATA

CURVE #	BASELINE	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C1	EXIST. ROUTE 703	PC 2063+19.54	32.58' RT	1400.00'	PRC 2066+10.60	56.88' RT
C2	EXIST. ROUTE 703	PC 2063+49.43	18.15' RT	1315.00'	PRC 2066+13.46	41.14' RT
C3	EXIST. ROUTE 703	PC 2063+82.63	4.12' RT	1165.00'	PRC 2066+16.51	26.17' RT

ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY AUTHORITY
 STA. 418+22, 6' RT. TO STA. 2063+84, 37' LT. 575 LF
 STA. 1059+25, 2' LT. TO STA. 2063+25, 0' LT/RT. 400 LF
 STA. 2063+00, 17' LT TO STA. 2066+75, 27' LT. 375 LF
 STA. 2066+03, 7' LT. TO STA. 2067+43, 1' LT. 90 LF
 STA. 2068+50, 1' LT. TO STA. 2071+90, 18' RT. 350 LF

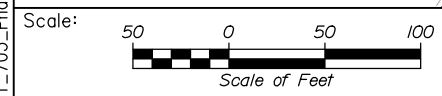
ITEM 604.40 SECURE CATCH BASIN GRATE
 STA. 2060+60, 38' RT.



- NOTES:**
- FOR SEQUENCE OF OPERATIONS NOTES SEE SHEET MT-49.
 - ALL PHASE 4 TEMPORARY PAVEMENT MARKINGS TO BE TAPE.

Date: 1/14/2021

Filename: 0XX_M0T_703_Phase4_2.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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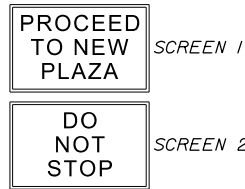
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 ROUTE 703 PHASE 4 PLAN 2

SHEET NUMBER: MT-48
 CONTRACT: 2021.07
 62 OF 431

PCMS MESSAGES



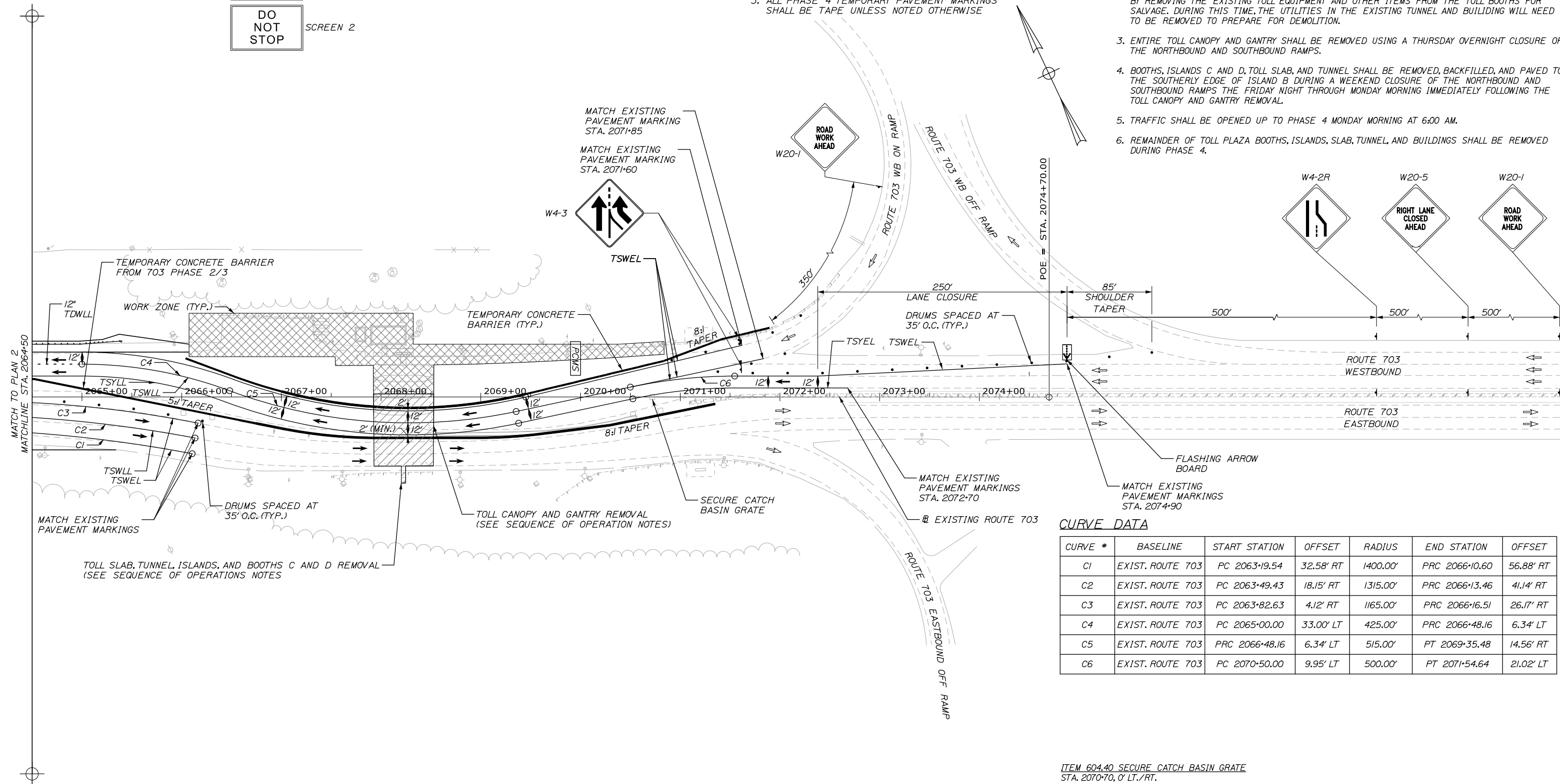
NOTES:

1. SET UP PCMS AND ACTIVATE WHEN FARE COLLECTION BEGINS AT NEW FACILITY.
2. SEE EXISTING TOLL PLAZA DEMOLITION PLANS ON SHEET TP-34 FOR DEMOLITION OF THE TOLL PLAZA AND TUNNEL.
3. ALL PHASE 4 TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE UNLESS NOTED OTHERWISE

SEQUENCE OF OPERATIONS (703 - PHASE 4)

1. MTA WILL TRANSFER TOLLING OPERATIONS TO THE NEW TOLL PLAZA FACILITIES DURING THE OVERNIGHT HOURS DURING LOW TRAFFIC VOLUMES. TRAFFIC CONTROL DEVICES WILL NEED TO BE RESET, SIGNS WILL NEED TO BE MOUNTED ON THE EXISTING TOLL BOOTHS, AND A MESSAGE BOARD POSITIONED AT THE EXISTING PLAZA AS SHOWN.
2. AFTER TOLLING OPERATIONS ARE MOVED TO THE NEW FACILITIES, THE EXISTING TOLL PLAZA LANES WILL BE CLOSED INDIVIDUALLY TO PREPARE THE EXISTING TOLL PLAZA FOR DEMOLITION BY REMOVING THE EXISTING TOLL EQUIPMENT AND OTHER ITEMS FROM THE TOLL BOOTHS FOR SALVAGE. DURING THIS TIME, THE UTILITIES IN THE EXISTING TUNNEL AND BUILDING WILL NEED TO BE REMOVED TO PREPARE FOR DEMOLITION.
3. ENTIRE TOLL CANOPY AND GANTRY SHALL BE REMOVED USING A THURSDAY OVERNIGHT CLOSURE OF THE NORTHBOUND AND SOUTHBOUND RAMPS.
4. BOOTHS, ISLANDS C AND D, TOLL SLAB, AND TUNNEL SHALL BE REMOVED, BACKFILLED, AND PAVED TO THE SOUTHERLY EDGE OF ISLAND B DURING A WEEKEND CLOSURE OF THE NORTHBOUND AND SOUTHBOUND RAMPS THE FRIDAY NIGHT THROUGH MONDAY MORNING IMMEDIATELY FOLLOWING THE TOLL CANOPY AND GANTRY REMOVAL.
5. TRAFFIC SHALL BE OPENED UP TO PHASE 4 MONDAY MORNING AT 6:00 AM.
6. REMAINDER OF TOLL PLAZA BOOTHS, ISLANDS, SLAB, TUNNEL, AND BUILDINGS SHALL BE REMOVED DURING PHASE 4.

Date: 1/14/2021

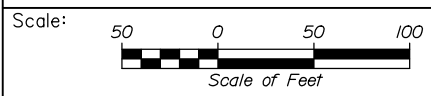


CURVE DATA

CURVE #	BASELINE	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C1	EXIST. ROUTE 703	PC 2063+19.54	32.58' RT	1400.00'	PRC 2066+10.60	56.88' RT
C2	EXIST. ROUTE 703	PC 2063+49.43	18.15' RT	1315.00'	PRC 2066+13.46	41.14' RT
C3	EXIST. ROUTE 703	PC 2063+82.63	4.12' RT	1165.00'	PRC 2066+16.51	26.17' RT
C4	EXIST. ROUTE 703	PC 2065+00.00	33.00' LT	425.00'	PRC 2066+48.16	6.34' LT
C5	EXIST. ROUTE 703	PRC 2066+48.16	6.34' LT	515.00'	PT 2069+35.48	14.56' RT
C6	EXIST. ROUTE 703	PC 2070+50.00	9.95' LT	500.00'	PT 2071+54.64	21.02' LT

ITEM 604.40 SECURE CATCH BASIN GRATE
STA. 2070+70, 0' LT./RT.

Filename: 0XX_MOT_703_Phase4_3.dgn



Designed by:



HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
ROUTE 703 PHASE 4 PLAN 3**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

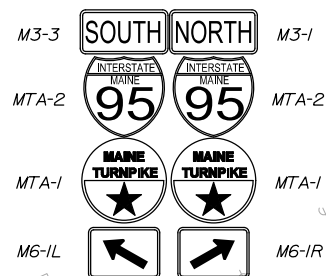
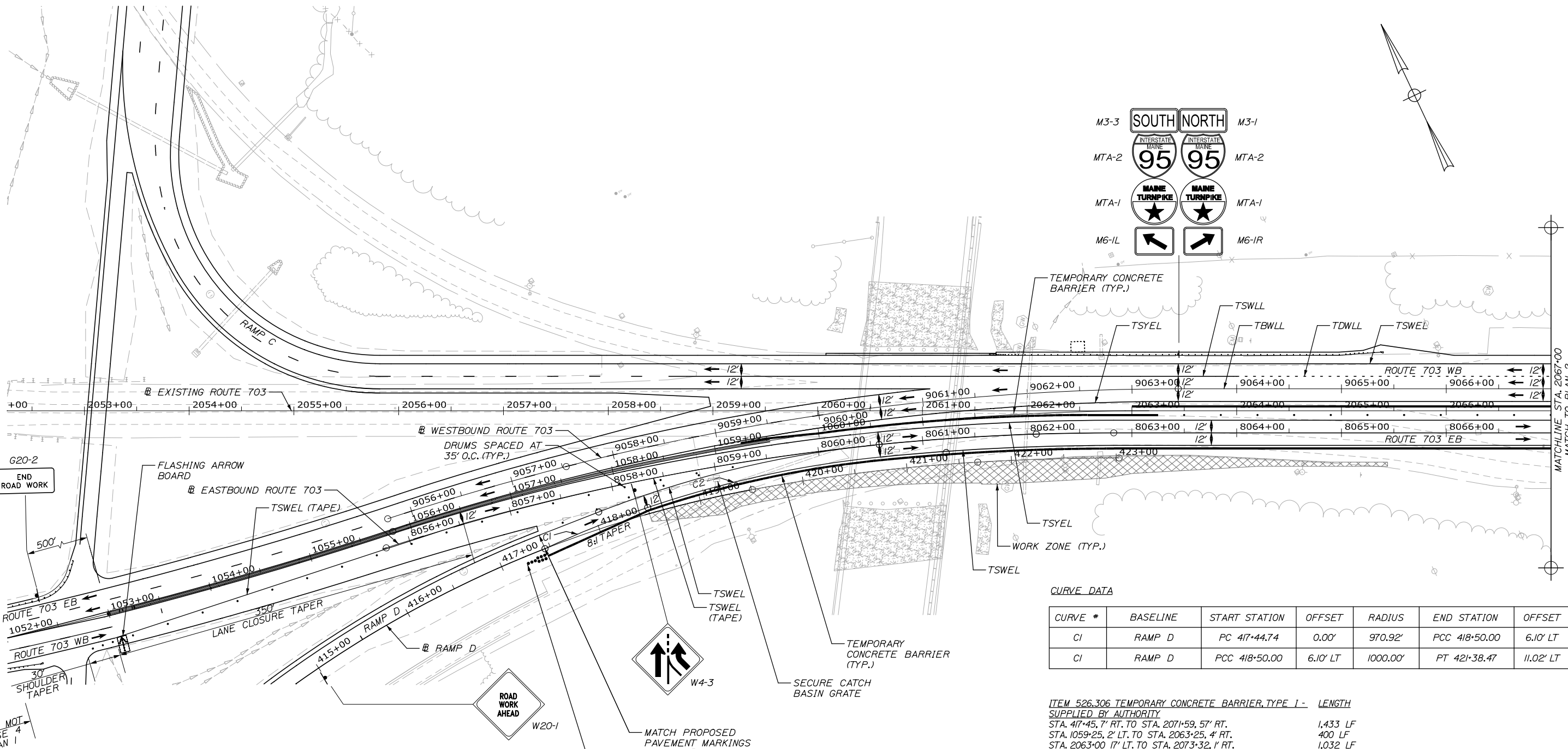
CONTRACT: 2021.07

SHEET NUMBER: MT-49

63 OF 431

Date: 1/14/2021

Filename: 0XX_MOT_703_Phase5_1.dgn



CURVE DATA

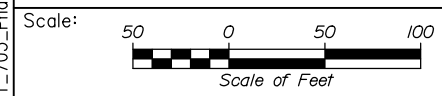
CURVE #	BASELINE	START STATION	OFFSET	RADIUS	END STATION	OFFSET
CI	RAMP D	PC 417+44.74	0.00'	970.92'	PCC 418+50.00	6.10' LT
CI	RAMP D	PCC 418+50.00	6.10' LT	1000.00'	PT 421+38.47	11.02' LT

ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE 1 - LENGTH SUPPLIED BY AUTHORITY
 STA. 417+45, 7' RT. TO STA. 2071+59, 57' RT. 1,433 LF
 STA. 1059+25, 2' LT. TO STA. 2063+25, 4' RT. 400 LF
 STA. 2063+00, 17' LT. TO STA. 2073+32, 1' RT. 1,032 LF

NOTE: ALL PHASE 5 TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT UNLESS NOTED OTHERWISE

SEQUENCE OF OPERATIONS (703 - PHASE 5)

1. CLOSE THE NB OFF RAMP OVERNIGHT TO REMOVE AND INSTALL TEMPORARY PAVEMENT MARKINGS, INSTALL TEMPORARY CONCRETE BARRIER, AND TRAFFIC CONTROL DEVICES TO SHIFT TRAFFIC.
2. CONSTRUCT PIER PROTECTION BARRIER, RECONSTRUCT SHOULDER FROM STATION 418+50 TO 8065+45 RIGHT. INSTALL GUARDRAIL.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
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THE GOLD STAR
 MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

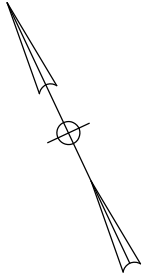
EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 ROUTE 703 PHASE 5 PLAN 1

CONTRACT: 2021.07

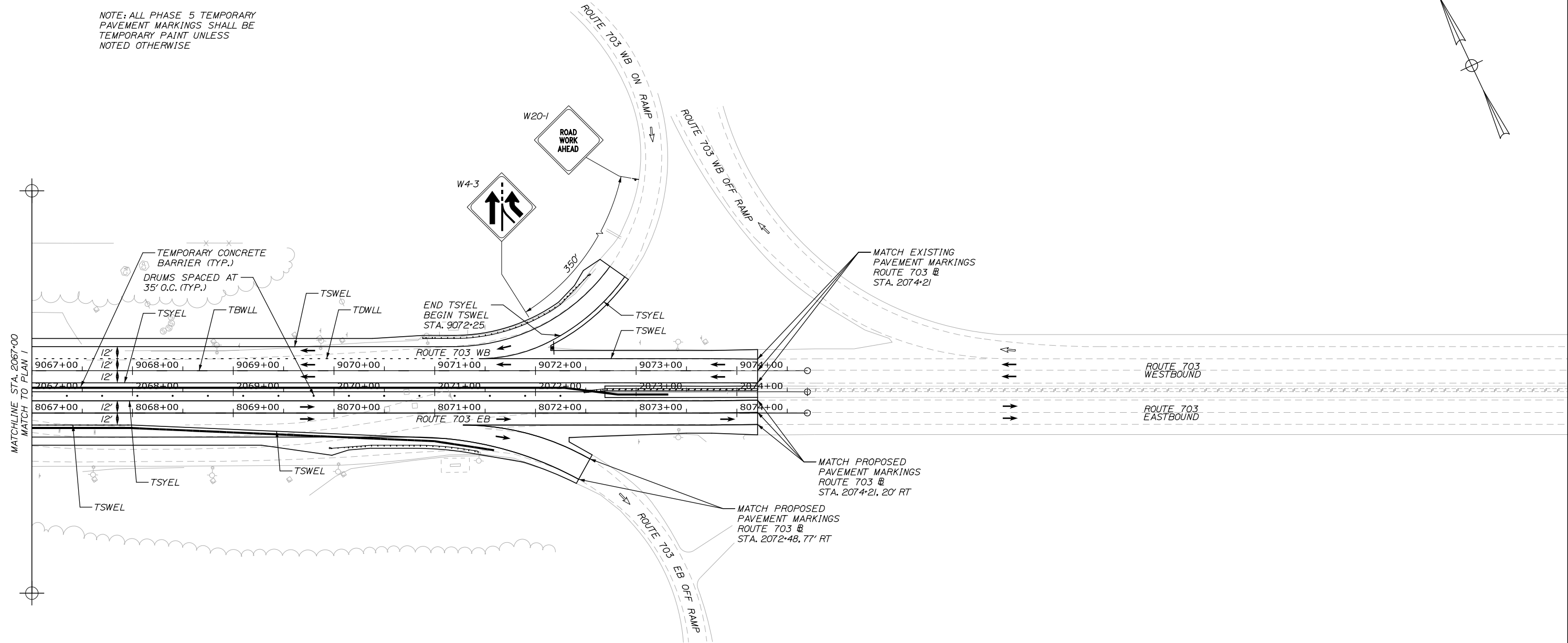
SHEET NUMBER: MT-50

64 OF 431

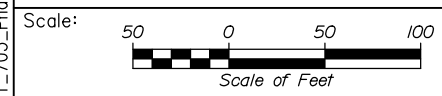
NOTE: ALL PHASE 5 TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT UNLESS NOTED OTHERWISE



Date: 1/14/2021



Filename: 0XX_MOT_703_Phase5_2.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	KSR	09\20	Checked	JRH	09\20
Drawn	KSR	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

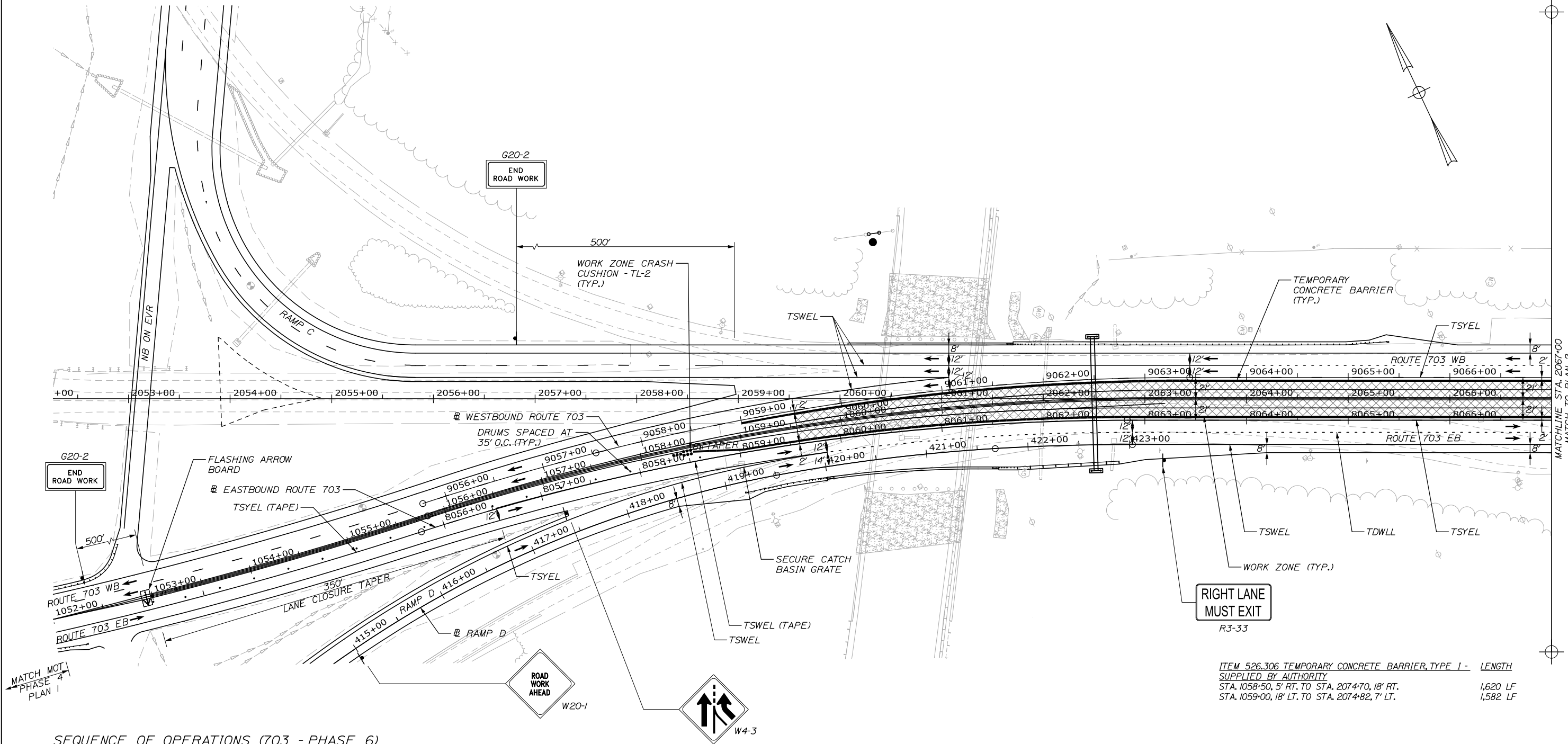
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 ROUTE 703 PHASE 5 PLAN 2

SHEET NUMBER: MT-51
 CONTRACT: 2021.07
 65 OF 431

Date: 1/14/2021

Filename: 0XX_MOT_703_Phase6_1.dgn



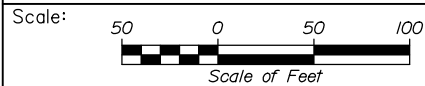
SEQUENCE OF OPERATIONS (703 - PHASE 6)

1. SET UP LEFT LANE CLOSURE, TEMPORARY PAVEMENT MARKINGS, AND TEMPORARY CONCRETE BARRIER WITH WORK ZONE CRASH CUSHIONS.
2. COMPLETE MEDIAN RECONSTRUCTION - RAISE CB FRAMES TO GRADE, INSTALL PERMANENT CONCRETE BARRIER, APPLY CONCRETE PROTECTIVE COATING TO BARRIER.
3. REMOVE TEMPORARY CONCRETE BARRIER AND WORK ZONE CRASH CUSHIONS ONCE MEDIAN RECONSTRUCTION WORK IS COMPLETE.

NOTE:

1. FINAL PAVEMENT MARKINGS TO BE USED DURING THIS PHASE. REFER TO SIGNING & PAVEMENT MARKING PLANS FOR FINAL PAVEMENT MARKINGS.
2. ALL PHASE 6 TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT UNLESS NOTED OTHERWISE.

ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE 1 - LENGTH SUPPLIED BY AUTHORITY
 STA. 1058+50, 5' RT. TO STA. 2074+70, 18' RT. 1,620 LF
 STA. 1059+00, 18' LT. TO STA. 2074+82, 7' LT. 1,582 LF



Designed by:



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 340 County Road, Suite 6-C
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 ROUTE 703 PHASE 6 PLAN 1**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	TRC	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

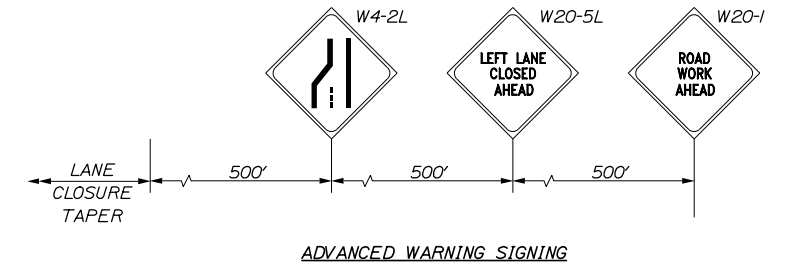
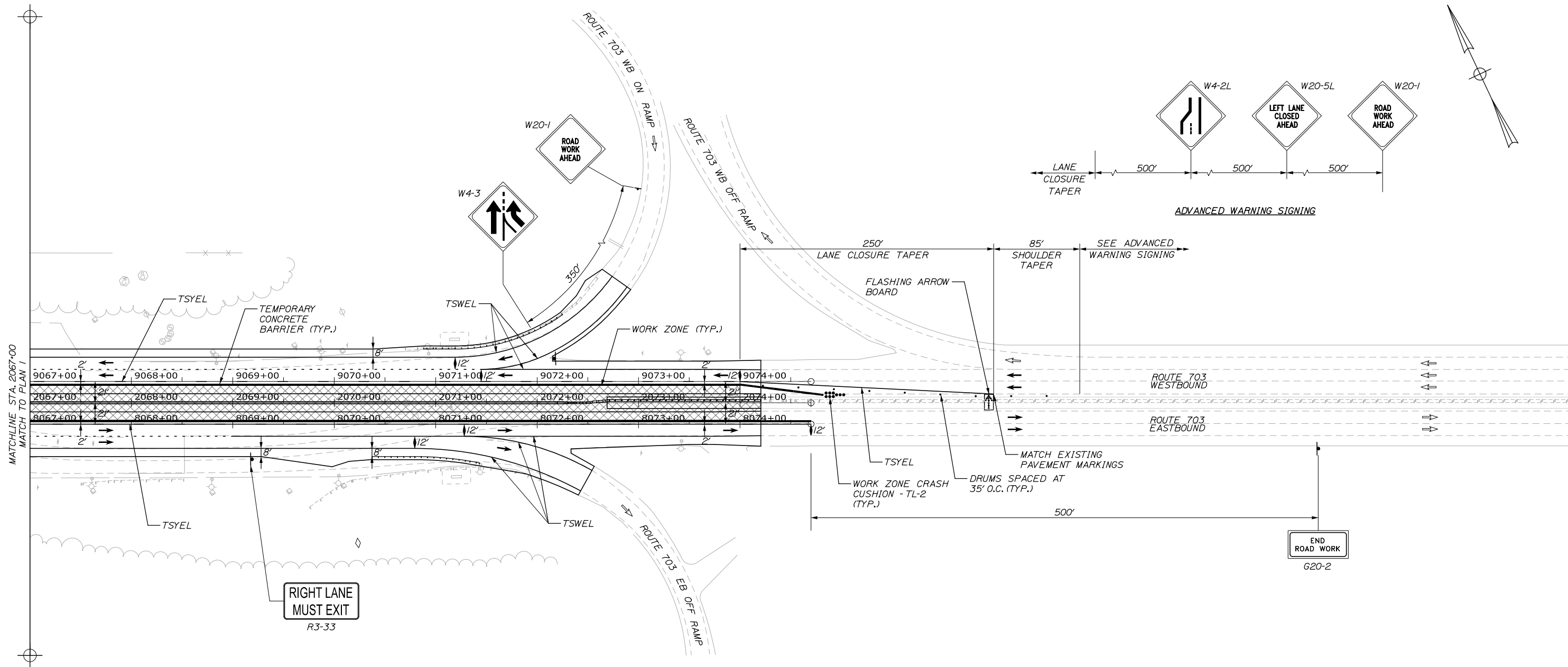
CONTRACT: 2021.07

SHEET NUMBER: MT-52

66 OF 431

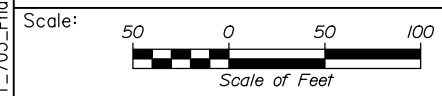
Date: 1/14/2021

Filename: 0XX_MOT_703_Phase6_2.dgn



NOTE:

1. FINAL PAVEMENT MARKINGS TO BE USED DURING THIS PHASE. REFER TO SIGNING & PAVEMENT MARKING PLANS FOR FINAL PAVEMENT MARKINGS.
2. ALL PHASE 6 TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT UNLESS NOTED OTHERWISE



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**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 ROUTE 703 PHASE 6 PLAN 2**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By TRC	Date 09\20	Checked JRH 09\20
Drawn	By LAD	Date 09\20	In Charge of RAL 09\20

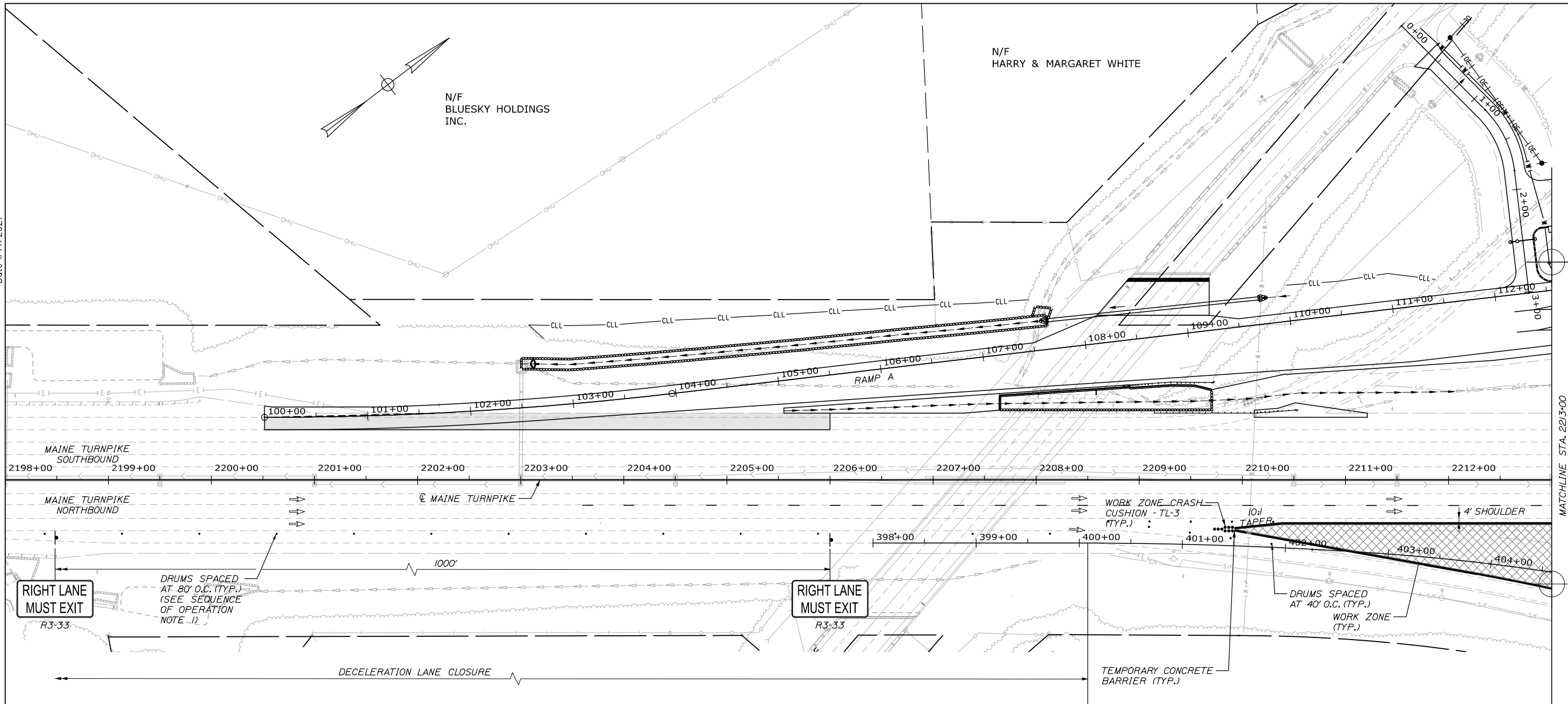
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: MT-53

67 OF 431

Date: 1/14/2021



SEQUENCE OF OPERATIONS (RAMP D - PHASE A)

1. REFERENCE SHEET MT-03, MAINE TURNPIKE MAINTENANCE OF TRAFFIC SHALL BE SET UP IN PHASE 2 PRIOR TO IMPLEMENTING THE MAINTENANCE OF TRAFFIC PLAN SHOWN ON THIS SHEET AND SHALL REMAIN IN THE PHASE 2 CONDITION WHILE THIS PLAN LAYOUT IS IN PLACE.
2. MOT SHOWN FOR RAMP D ANTICIPATED TO OCCUR DURING 2022 TO TIE THE PROPOSED RAMP ALIGNMENT INTO MAINLINE AND PROPOSED GORE CONSTRUCTION FROM STA. 403+50 AHEAD ON STATION.
3. CLOSE RAMP D OVERNIGHT TO INSTALL THE TRAFFIC CONTROL DEVICES, TEMPORARY CONCRETE BARRIER, AND INSTALL A TEMPORARY 15' OPT III CULVERT UNDER THE EXISTING RAMP TRAVEL WAY TO ENABLE THE LOW POINT AT STA. 406+50 BETWEEN THE PROPOSED RAMP AND EXISTING RAMP TRAVELWAY TO DRAIN.
4. ADDITIONAL OVERNIGHT RAMP CLOSURES TO INSTALL PERMANENT OUTFALL PIPING WITH TEMPORARY EXTENSIONS UNDER THE EXISTING RAMP TRAVEL WAY AT STATIONS 414+00 AND 415+50.
5. AFTER OPENING THE NEW TOLL PLAZAS, SHIFT TRAFFIC ONTO THE PROPOSED RAMP D ALIGNMENT AS SHOWN ON RAMP D PHASE B.

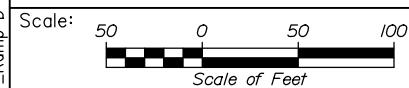
ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE I - LENGTH SUPPLIED BY AUTHORITY
 STA. 2209+92, 47' RT. TO STA. 2214+00, 42' RT. 408 LF
 STA. 401+50, 14' LT. TO STA. 408+97, 27' RT. 747 LF

ITEM 527.341 WORK ZONE CRASH CUSHION - TL-3
 STA. 2209+75, 43' RT.

NOTE:

1. DETAILS FROM THIS SHEET SHALL BE OMITTED IF ONLY TWO LANES ARE OPEN ON MAINLINE.

Filename: 0XX_MOT_Ramp D Phase 1_01.dgn



Designed by:



CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
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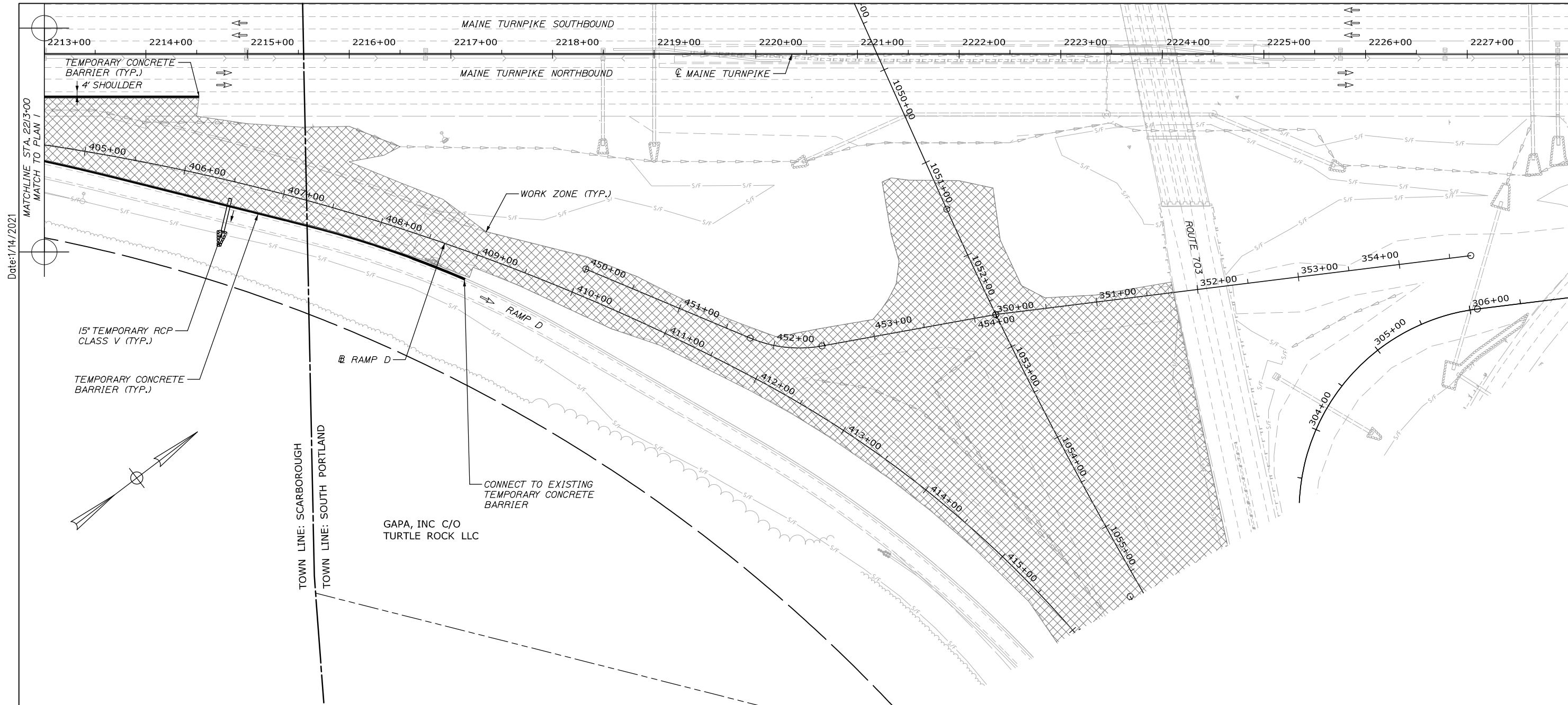
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 RAMP D PHASE A PLAN 1**

SHEET NUMBER: MT-54

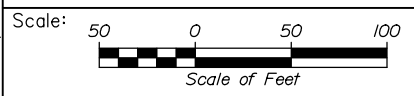
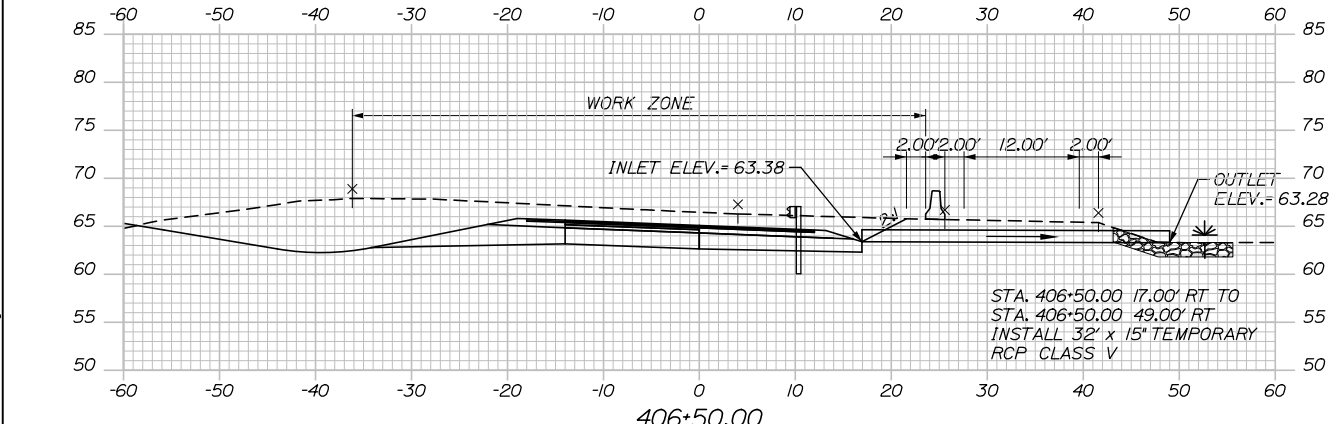
CONTRACT: 2021.07

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Date: 1/14/2021

Filename: 0XX_MOT_Ramp_D Phase 1.02.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
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**EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 RAMP D PHASE A PLAN 2**

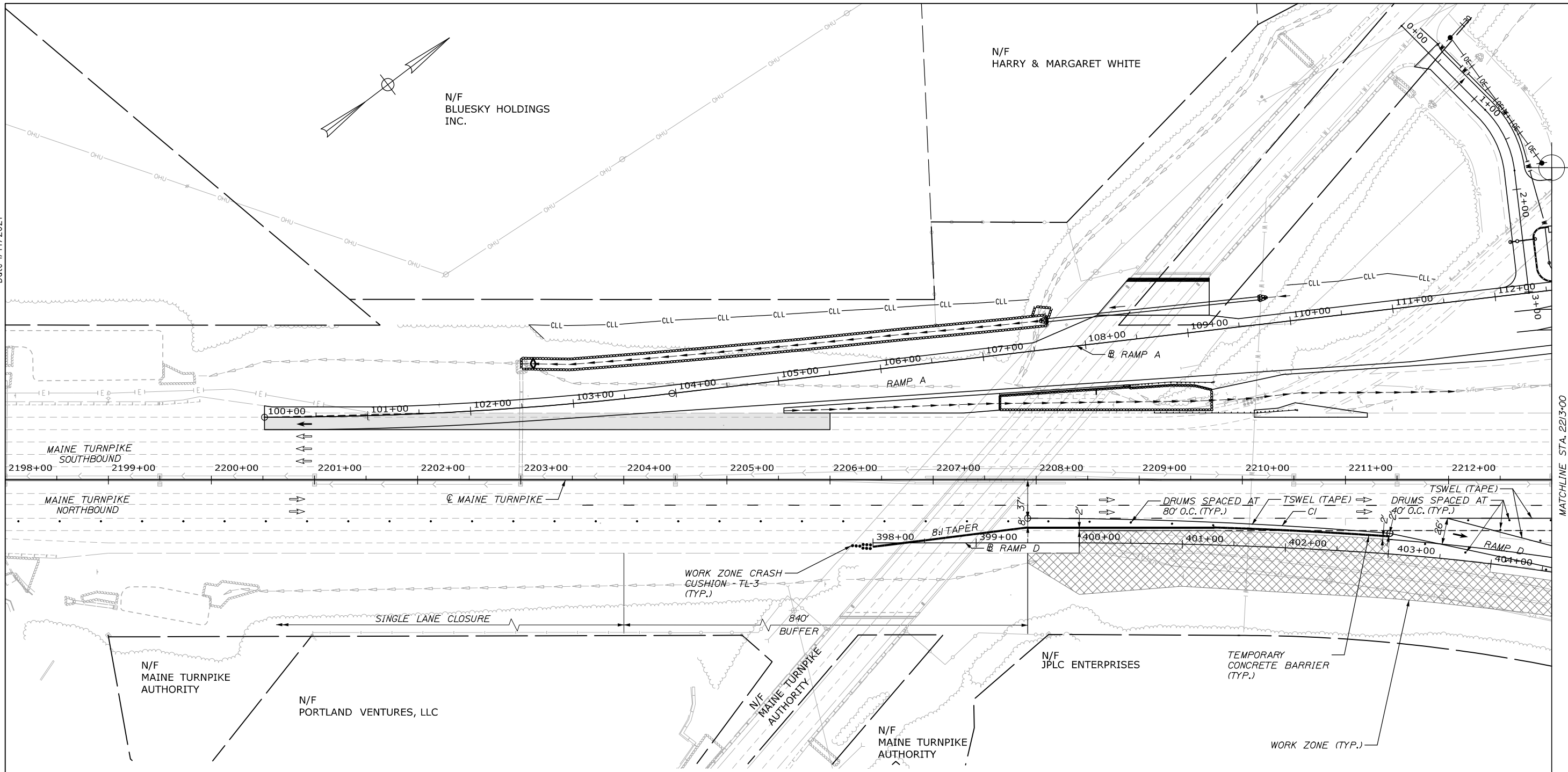
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: MT-55

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Date: 1/14/2021



MATCHLINE STA. 2213+00
MATCH TO PLAN 2

SEQUENCE OF OPERATIONS (RAMP D - PHASE B)

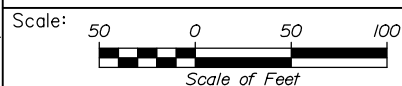
1. REFERENCE SHEET MT-03. MAINE TURNPIKE MAINTENANCE OF TRAFFIC SHALL BE SET UP IN PHASE 2 PRIOR TO IMPLEMENTING THE MAINTENANCE OF TRAFFIC PLAN SHOWN ON THIS SHEET AND SHALL REMAIN IN THE PHASE 2 CONDITION WHILE THIS PLAN LAYOUT IS IN PLACE.
2. DURING THE WEEKEND INTERCHANGE CLOSURE IMMEDIATELY PRIOR TO OPENING THE NEW TOLL PLAZA FOR OPERATION, INSTALL TEMPORARY PAVEMENT MARKINGS, TEMPORARY TRAFFIC CONTROL DEVICES AND TEMPORARY CONCRETE BARRIER AS SHOWN ON THIS PLAN.
3. CONSTRUCT RAMP D AND ADJACENT SHOULDER FROM STATION 400+00 TO 403+50. REMOVE EXISTING RAMP D AND CONSTRUCT PROPOSED EMBANKMENT SLOPES TO STATION 407+00 DURING THIS PHASE.
4. CLOSE THE NB OFF RAMP OVERNIGHT TO REMOVE TEMPORARY CONCRETE BARRIER, TEMPORARY PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES. INSTALL PAVEMENT MARKINGS AS SHOWN IN THEIR FINAL CONDITION ON THE SIGNING AND PAVEMENT MARKING PLANS.

ITEM 526.306 TEMPORARY CONCRETE BARRIER, TYPE I - LENGTH SUPPLIED BY AUTHORITY
STA. 2206+42, 65' RT. TO STA. 2211+42, 54' RT. 500 LF

CURVE DATA

CURVE #	BASELINE	START STATION	OFFSET	RADIUS	END STATION	OFFSET
CI	RAMP D	PC 399+50.00	24.00' LT	4220.00'	PT 403+00.00	20.00' LT

Filename: 0XX_MOT_Ramp_D Phase 2_01.dgn



Designed by:



CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	LAD	09\20	In Charge of	RAL	09\20

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340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

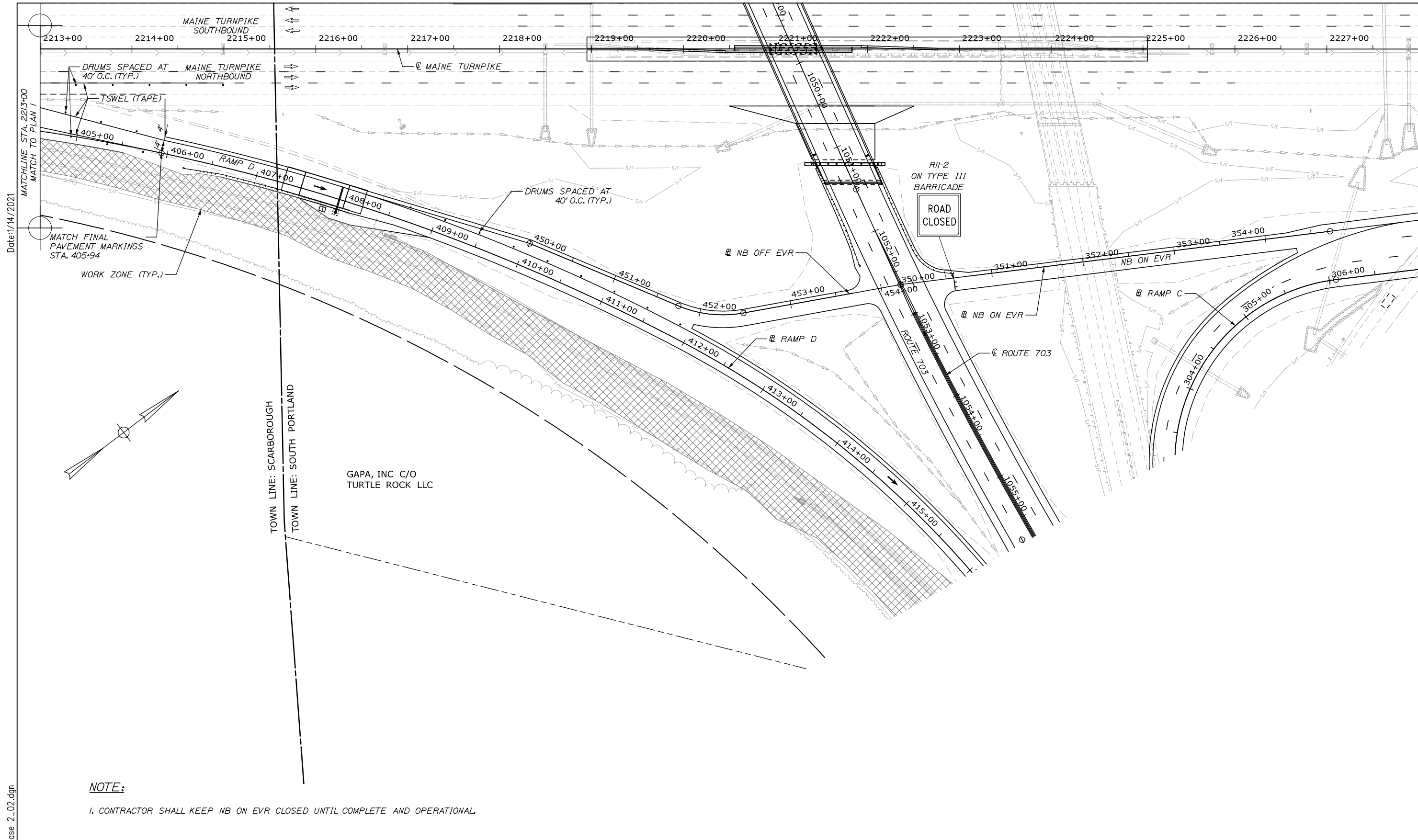
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
RAMP D PHASE B PLAN 1**

CONTRACT: 2021.07

SHEET NUMBER: MT-56

70 OF 431

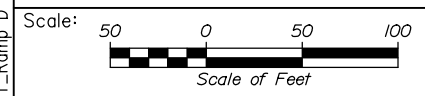


Date: 1/14/2021

Filename: 0XX_MOT_Ramp_D Phase 2_02.dgn

NOTE:

1. CONTRACTOR SHALL KEEP NB ON EVR CLOSED UNTIL COMPLETE AND OPERATIONAL.



Designed by:



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**THE GOLD STAR
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**EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
RAMP D PHASE B PLAN 2**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	09\20	Checked JRH 09\20
Drawn	LAD	09\20	In Charge of RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: MT-57

71 OF 431

CONSTRUCTION SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER	
CS-1	36"	24"	LEFT LANE	TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			1	ORANGE	BLACK	6.00 (6.00)
CS-3	48"	48"	EXPECT STOPPED TRAFFIC				6	ORANGE	BLACK	16.00 (96.00)
CS-4	48"	48"	EXIT CLOSED AHEAD				1	ORANGE	BLACK	16.00 (16.00)
CS-10	48"	48"	TRUCKS ENTERING				3	ORANGE	BLACK	16.00 (48.00)
CS-11	48"	48"	NO STOPPING ON PAVEMENT				1	ORANGE	BLACK	16.00 (16.00)
CS-12	48"	36"	RAMP CLOSED	8" 8"	7" 6" 7"		6	ORANGE	BLACK	12.00 (72.00)
CS-14	24"	36"	DO NOT STOP	TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			2	WHITE	BLACK	6.00 (12.00)
CS-15	36"	24"	PROCEED TO NEW PLAZA	TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			8	ORANGE	BLACK	6.00 (48.00)
E5-1	48"	36"	EXIT				1	GREEN	WHITE	12.00 (12.00)
E5-2	48"	36"	EXIT CLOSED				1	ORANGE	BLACK	12.00 (12.00)
E5-2a	48"	36"	EXIT OPEN				2	ORANGE	BLACK	12.00 (24.00)
G20-2	48"	24"	END ROAD WORK				24	ORANGE	BLACK	8.00 (192.00)
G20-5aP	48"	24"	WORK ZONE				8	WHITE	BLACK	8.00 (64.00)
M3-1	36"	18"	NORTH				2	BLUE	WHITE	4.50 (9.00)
M3-3	36"	18"	SOUTH				2	BLUE	WHITE	4.50 (9.00)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER	
M6-1 (L/R)	30"	21"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			4	BLUE	WHITE	4.38 (17.52)
MTA-1	36"	36"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			4	GREEN	WHITE	9.00 (36.00)
MTA-2	36"	36"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			4	BLUE	WHITE	9.00 (36.00)
RI-1	48"	48"	STOP				1	RED	WHITE	16.00 (16.00)
RI-2	60"	60"					2	RED	WHITE	25.00 (50.00)
R2-1 (25) (45) (50)	48"	60"	SPEED LIMIT 45				20	WHITE	BLACK	20.00 (400.00)
R2-6aP	48"	24"	FINES DOUBLE	6" 6"	4.5"		8	WHITE	BLACK	8.00 (64.00)
R2-12	48"	60"	END WORK ZONE SPEED LIMIT	TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			8	WHITE	BLACK	20.00 (160.00)
R3-33	78"	36"	RIGHT LANE MUST EXIT				4	WHITE	BLACK	19.50 (78.00)
R4-9	36"	48"	STAY IN LANE				1	WHITE	BLACK	12.00 (12.00)
RII-2	48"	30"	ROAD CLOSED				4	WHITE	BLACK	10.00 (40.00)
WI-4 (RIGHT) (LEFT)	48"	48"					2	ORANGE	BLACK	16.00 (32.00)
WI-8	18"	24"					9	YELLOW	BLACK	3.00 (27.00)
W3-1	48"	48"					1	ORANGE	BLACK	16.00 (16.00)
W3-2	48"	48"					1	ORANGE	BLACK	16.00 (16.00)

Date: 1/14/2021

Filename: 00X_MOT_SignSummary_01.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909











THE GOLD STAR MEMORIAL HIGHWAY











MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 MAINTENANCE OF TRAFFIC
 SIGN SUMMARY 1

SHEET NUMBER: MT-58
 CONTRACT: 2021.07
 72 OF 431

CONSTRUCTION SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER	
W3-4	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			6	ORANGE	BLACK	16.00 (96.00)
W3-5 (45) (50)	48"	48"					12	ORANGE	BLACK	16.00 (192.00)
W4-1 (RIGHT)	48"	48"					3	ORANGE	BLACK	16.00 (48.00)
W4-2 (LEFT) (RIGHT)	48"	48"					21	ORANGE	BLACK	16.00 (336.00)
W4-3 (RIGHT)	48"	48"					3	ORANGE	BLACK	16.00 (48.00)
W4-5P	24"	30"					1	ORANGE	BLACK	5.00 (5.00)
W5-4	48"	48"					2	ORANGE	BLACK	16.00 (32.00)
W7-3aP (FEET) (MILES)	24"	18"					20	ORANGE	BLACK	3.00 (60.00)
W8-1	48"	48"					4	ORANGE	BLACK	16.00 (64.00)
W8-24a	48"	48"					4	ORANGE	BLACK	16.00 (64.00)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER	
W13-3 (30) (25)	36"	48"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			4	ORANGE	BLACK	12.00 (48.00)
W13-4P	30"	30"					3	ORANGE	BLACK	6.25 (18.75)
W20-1 (AHEAD) (1 MILE)	48"	48"					42	ORANGE	BLACK	16.00 (672.00)
W20-5 (LEFT) (RIGHT) (AHEAD) (1/2 MILE)	48"	48"					13	ORANGE	BLACK	16.00 (208.00)
W20-5	48"	48"					10	ORANGE	BLACK	16.00 (160.00)
W20-5a (LEFT) (RIGHT) (1/2 MILE)	48"	48"					4	ORANGE	BLACK	16.00 (64.00)
W21-5	48"	48"					8	ORANGE	BLACK	16.00 (128.00)
W21-5a (LEFT) (RIGHT)	48"	48"					4	ORANGE	BLACK	16.00 (64.00)
W21-5b (LEFT) (RIGHT)	48"	48"					4	ORANGE	BLACK	16.00 (64.00)
W24-1 (LEFT) (RIGHT)	48"	48"					2	ORANGE	BLACK	16.00 (32.00)

Date: 1/14/2021

Filename: 00X_MOT_SignSummary_02.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
 340 County Road, Suite 6-C
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
MAINTENANCE OF TRAFFIC
SIGN SUMMARY 2

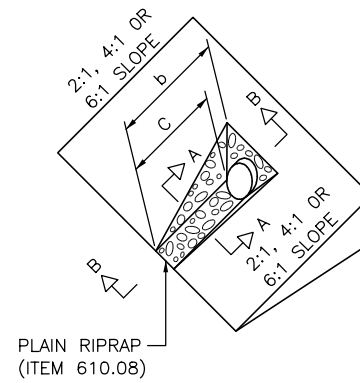
SHEET NUMBER: MT-59
CONTRACT: 2021.07

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Date: 1/14/2021

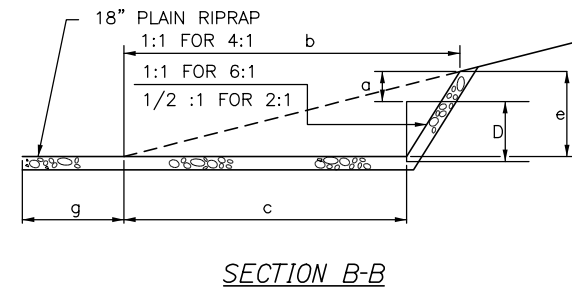
DIMENSIONS FOR SLOPE OF 2:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	1.50	1.30
15"	1.00	4.50	3.37	2.25	6.75	1.63	1.50	1.70
18"	1.00	5.00	3.75	2.50	7.50	2.25	1.50	2.09
21"	1.00	5.50	4.13	2.75	8.25	2.88	1.50	2.58
24"	1.00	6.00	4.50	3.00	9.00	3.50	1.50	3.12
30"	1.00	7.00	5.25	3.50	10.50	4.75	1.50	4.33
36"	1.00	8.00	6.00	4.00	12.00	6.00	1.50	5.75
42"	1.00	9.00	6.75	4.50	13.50	7.25	1.50	7.37
48"	1.00	10.00	7.50	5.00	15.00	8.50	1.50	9.18
54"	1.00	11.00	8.25	5.50	16.50	9.75	1.50	11.19
60"	1.00	12.00	9.00	6.00	18.00	11.00	1.50	13.40
66"	1.00	13.00	9.75	6.50	19.50	12.25	1.50	15.81
72"	1.00	14.00	10.50	7.00	21.00	13.50	1.50	18.41
84"	1.00	16.00	12.00	8.00	24.00	16.00	1.50	24.22



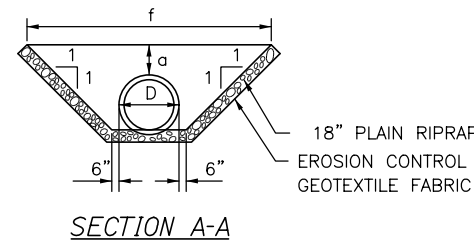
DIMENSIONS FOR SLOPE OF 4:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	8.00	6.00	2.00	6.00	0.00	1.50	2.20
15"	1.00	9.00	6.75	2.25	6.75	0.00	1.50	2.80
18"	1.00	10.00	7.50	2.50	7.50	0.00	1.50	3.40
21"	1.00	11.00	8.25	2.75	8.25	0.00	1.50	4.10
24"	1.00	12.00	9.00	3.00	9.00	0.00	1.50	4.86
30"	1.00	14.00	10.50	3.50	10.50	0.00	1.50	6.58
36"	1.00	16.00	12.00	4.00	12.00	0.00	1.50	8.56
42"	1.00	18.00	13.50	4.50	13.50	0.50	1.50	10.92
48"	1.00	20.00	15.00	5.00	15.00	1.00	1.50	13.57
54"	1.00	22.00	16.50	5.50	16.50	1.50	1.50	16.50
60"	1.00	24.00	18.00	6.00	18.00	2.00	1.50	19.72
66"	1.00	26.00	19.50	6.50	19.50	2.50	1.50	23.22
72"	1.00	28.00	21.00	7.00	21.00	3.00	1.50	27.01
84"	1.00	32.00	24.00	8.00	24.00	4.00	1.50	35.45



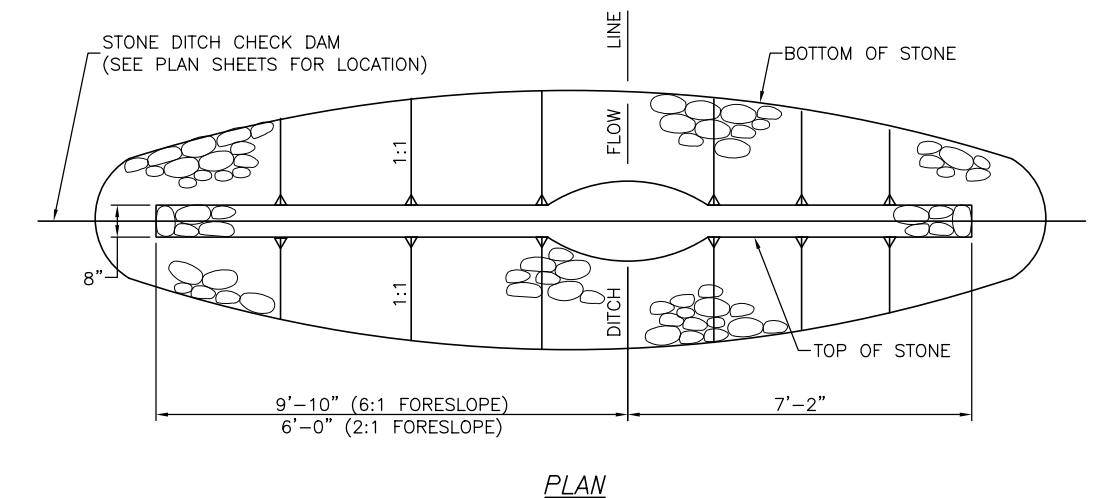
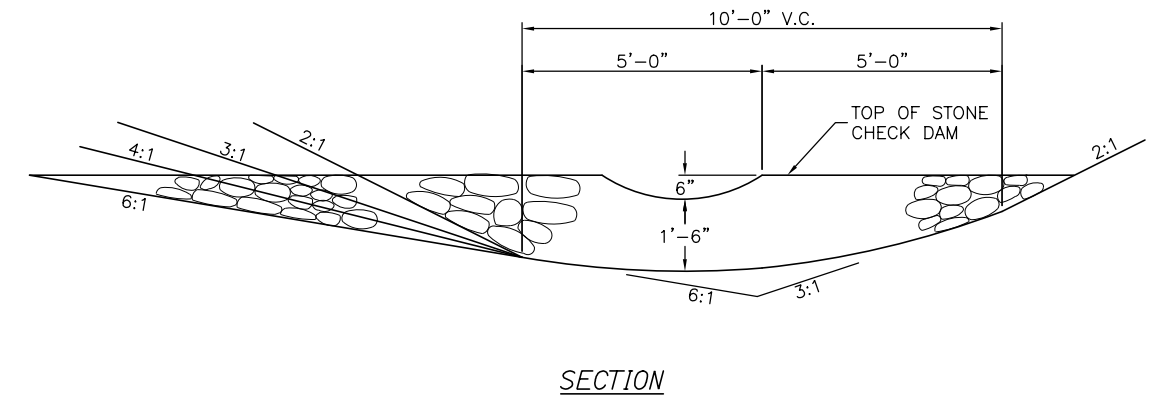
DIMENSIONS FOR SLOPE OF 6:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	0.50	9.00	7.50	1.50	4.50	0.00	1.50	2.30
15"	0.50	10.50	8.75	1.75	5.50	0.00	1.50	2.93
18"	0.50	12.00	10.00	2.00	6.50	0.00	1.50	3.57
21"	0.50	13.50	11.25	2.25	7.25	0.00	1.50	4.46
24"	0.50	15.00	12.50	2.50	8.00	0.00	1.50	5.44
30"	0.50	18.00	15.00	3.00	9.50	0.00	1.50	7.71
36"	0.50	21.00	17.50	3.50	11.00	0.00	1.50	10.37
42"	0.50	24.00	20.00	4.00	12.50	0.00	1.50	13.42
48"	0.50	27.00	22.50	4.50	14.00	0.00	1.50	16.87
54"	0.50	30.00	25.00	5.00	15.50	0.00	1.50	20.70
60"	0.50	33.00	27.50	5.50	17.00	0.00	1.50	24.93
66"	0.50	36.00	30.00	6.00	18.50	0.00	1.50	29.55
72"	0.50	39.00	32.50	6.50	20.00	0.00	1.50	34.56
84"	0.50	45.00	37.50	7.50	23.00	0.00	1.50	45.76



ROADWAY CULVERT END SLOPE TREATMENT

- NOTES:**
1. THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.
 2. STONE QUANTITIES ARE FOR ONE END OF THE PIPE.



STONE CHECK DAM
1" = 2'-0"

FORESLOPE	BACKSLOPE	QUANTITY C.Y. STONE
6:1	3:1	2.5
4:1	3:1	2.5
3:1	3:1	2.0
2:1	3:1	2.0

- NOTES:**
1. STONE FOR TEMPORARY AND PERMANENT STONE CHECK DAMS SHALL MEET THE REQUIREMENTS OF MDOT SPECIFICATION 703.29, STONE DITCH PROTECTION.
 2. TEMPORARY STONE CHECK DAMS WILL BE PAID FOR UNDER ITEM 610.181.

Filename: 00X_Erosion Control/Detail01.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

MISCELLANEOUS DETAILS (1 OF 10)

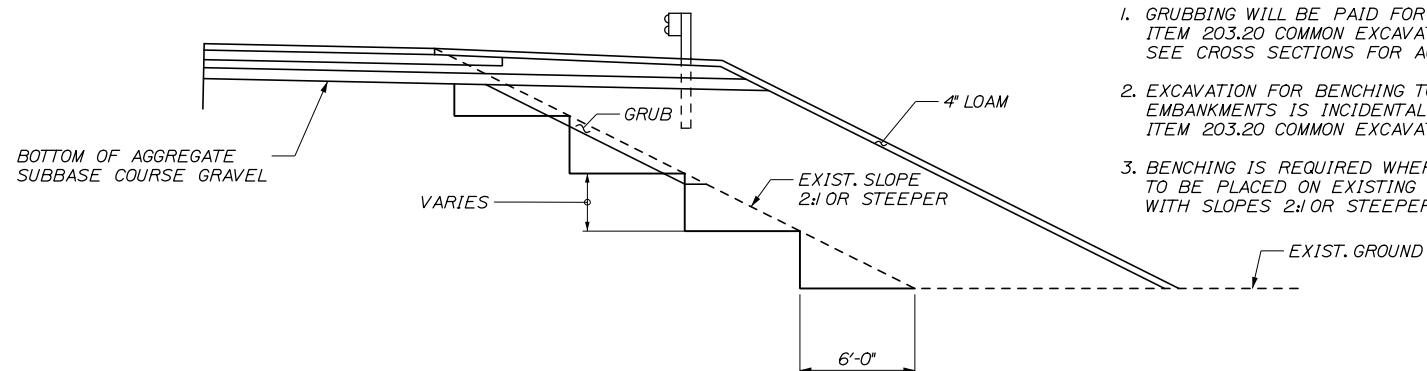
SHEET NUMBER: DT-01

CONTRACT: 2021.07

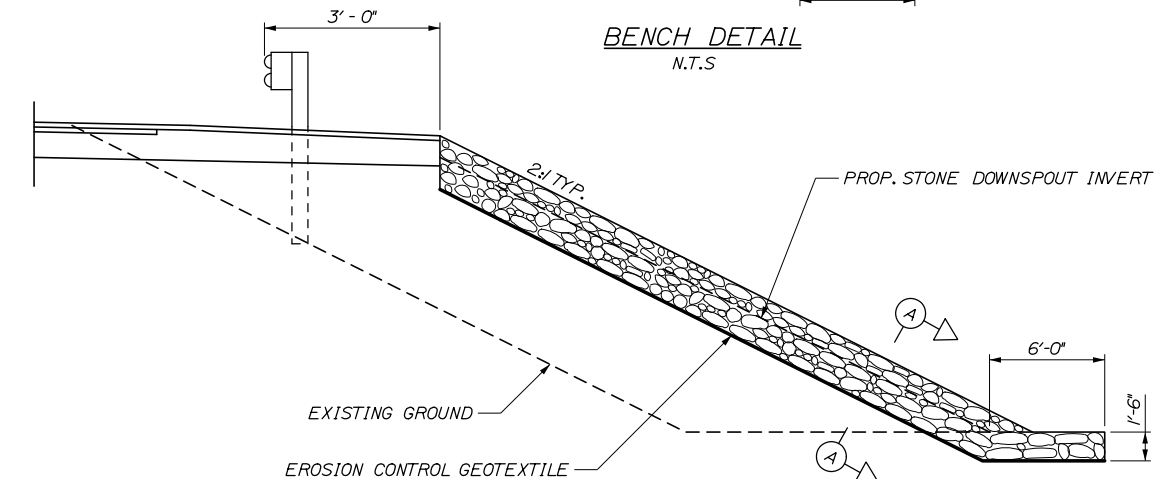
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NOTES:

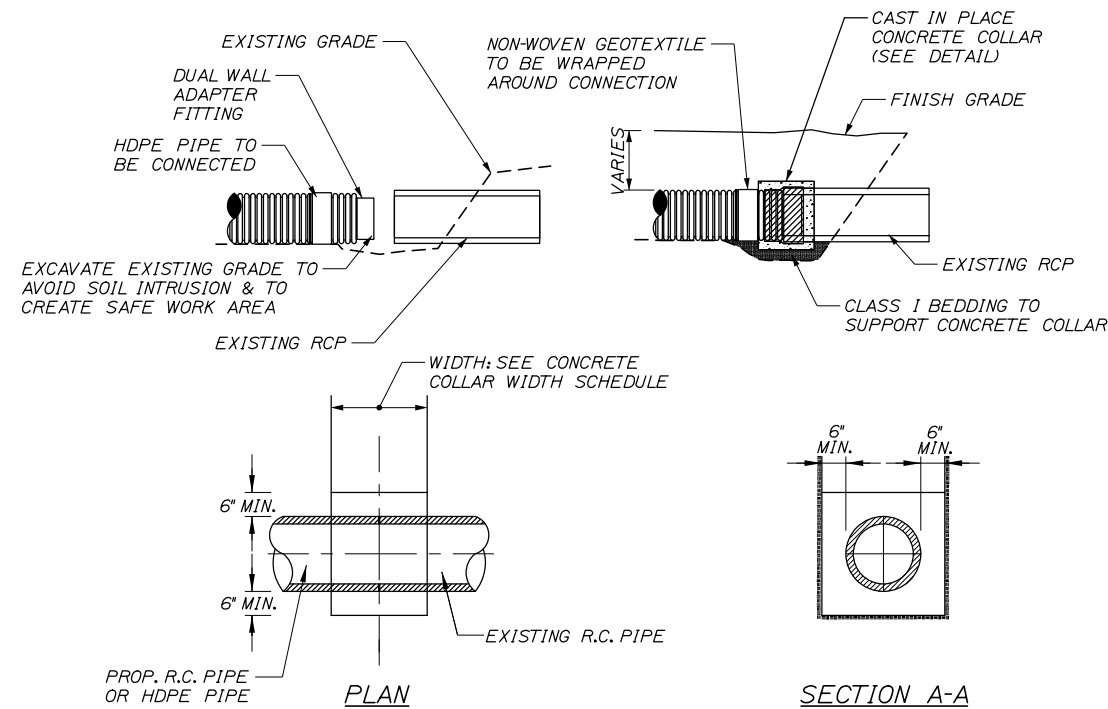
- GRUBBING WILL BE PAID FOR UNDER ITEM 203.20 COMMON EXCAVATION. SEE CROSS SECTIONS FOR ACTUAL LIMITS.
- EXCAVATION FOR BENCHING TO RECEIVE EMBANKMENTS IS INCIDENTAL TO ITEM 203.20 COMMON EXCAVATION.
- BENCHING IS REQUIRED WHERE FILL IS TO BE PLACED ON EXISTING EMBANKMENTS WITH SLOPES 2:1 OR STEEPER.



BENCH DETAIL
N.T.S.



SECTION



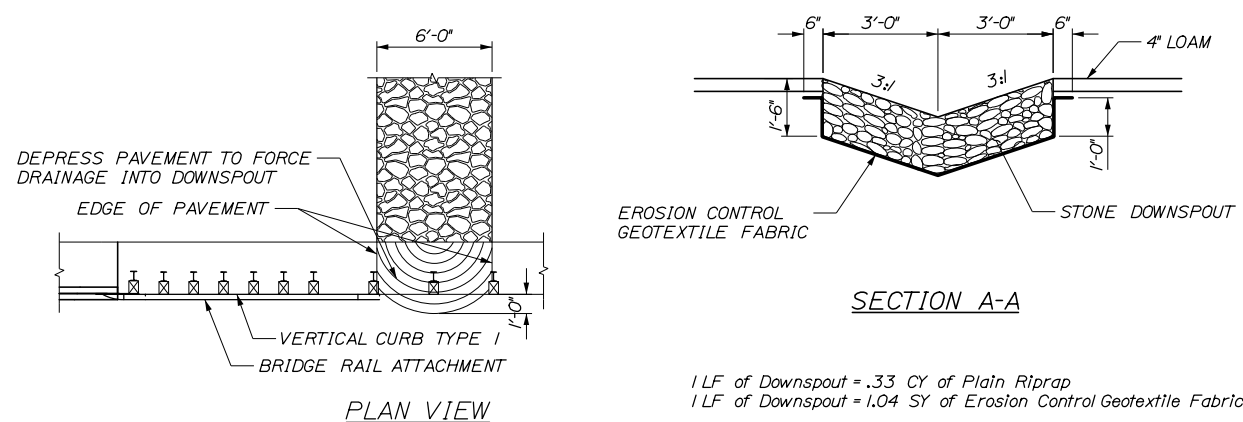
SECTION A-A
N.T.S.

NOTES:

- CONNECTION AND PIPE TO BE BACKFILL PER ASTM D2321 (CRUSHED STONE)
- CONCRETE SHALL BE CLASS A FIBER REINFORCED.
- SEE CONCRETE COLLAR WIDTH SCHEDULE FOR DIMENSIONS.

CONCRETE COLLAR WIDTH SCHEDULE	
PIPE DIA. (INCHES)	WIDTH OF CONC. (INCHES)
12	24
15	24
18	24
24	24
30	30
36	36
42	48
48	48
54	60

CONCRETE COLLAR DETAIL



PLAN VIEW

SECTION A-A

1 LF of Downspout = .33 CY of Plain Riprap
1 LF of Downspout = 1.04 SY of Erosion Control Geotextile Fabric

DOWNSPOUT DETAILS

NOTE:

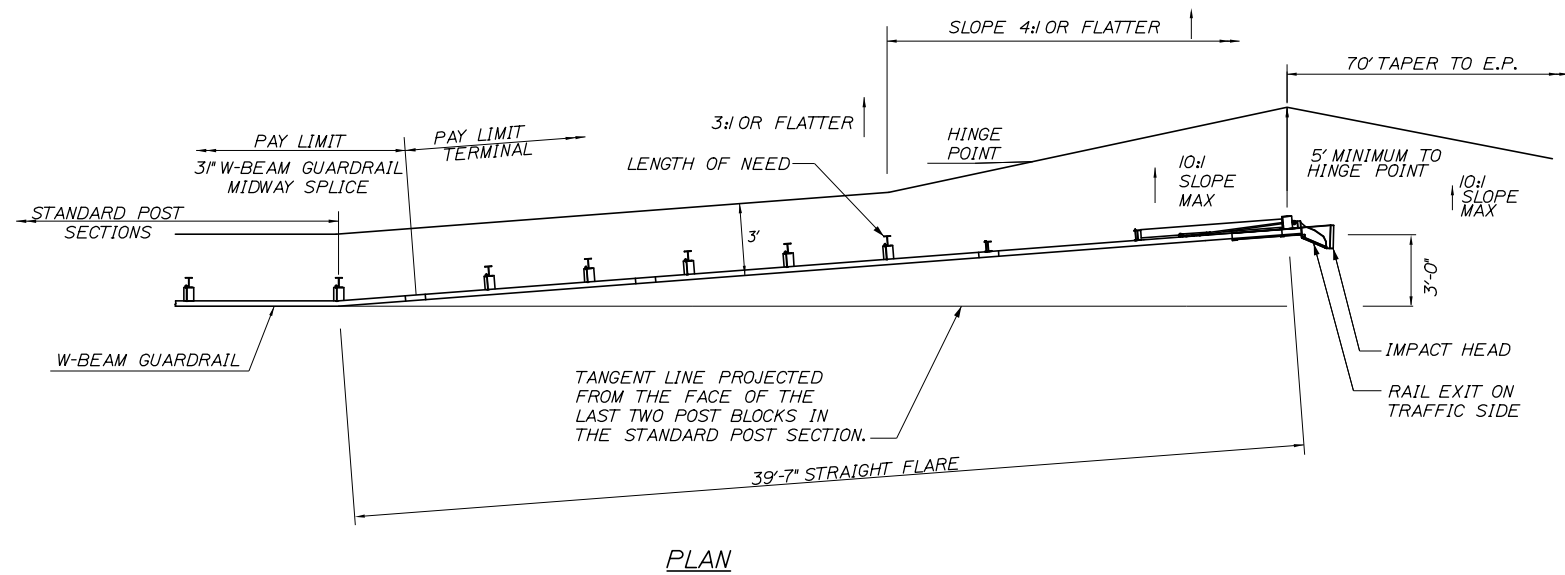
- STONE FOR STONE DOWNSPOUTS SHALL MEET THE REQUIREMENTS OF MDOT SPECIFICATION 703.29, AND WILL BE PAID FOR UNDER ITEM 610.08, PLAIN RIPRAP.
- SEE BRIDGE RAIL TRANSITION DETAILS FOR MORE INFORMATION.

Date: 1/14/2021

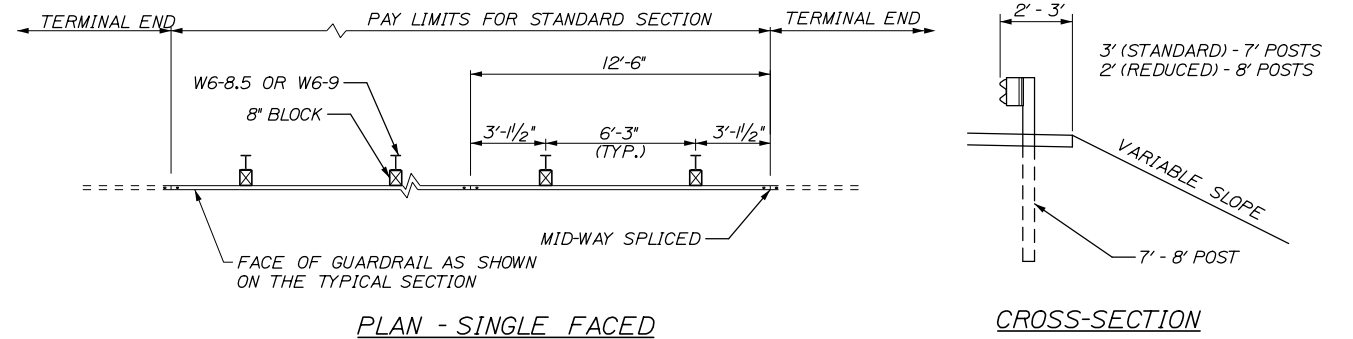
Filename: 00X_Erosion Control Detail02.dgn

Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION MISCELLANEOUS DETAILS (2 OF 10)													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Revision	By	Date					CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		CONTRACT: 2021.07		SHEET NUMBER: DT-02 75 OF 431					
No.	Revision	By	Date																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>EDD 09\20</td> <td>Checked</td> <td>JRH 09\20</td> </tr> <tr> <td>Drawn</td> <td>AJS 09\20</td> <td>In Charge of</td> <td>RAL 09\20</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	EDD 09\20	Checked	JRH 09\20	Drawn	AJS 09\20	In Charge of	RAL 09\20	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		CONTRACT: 2021.07		SHEET NUMBER: DT-02 75 OF 431	
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Date: 1/14/2021

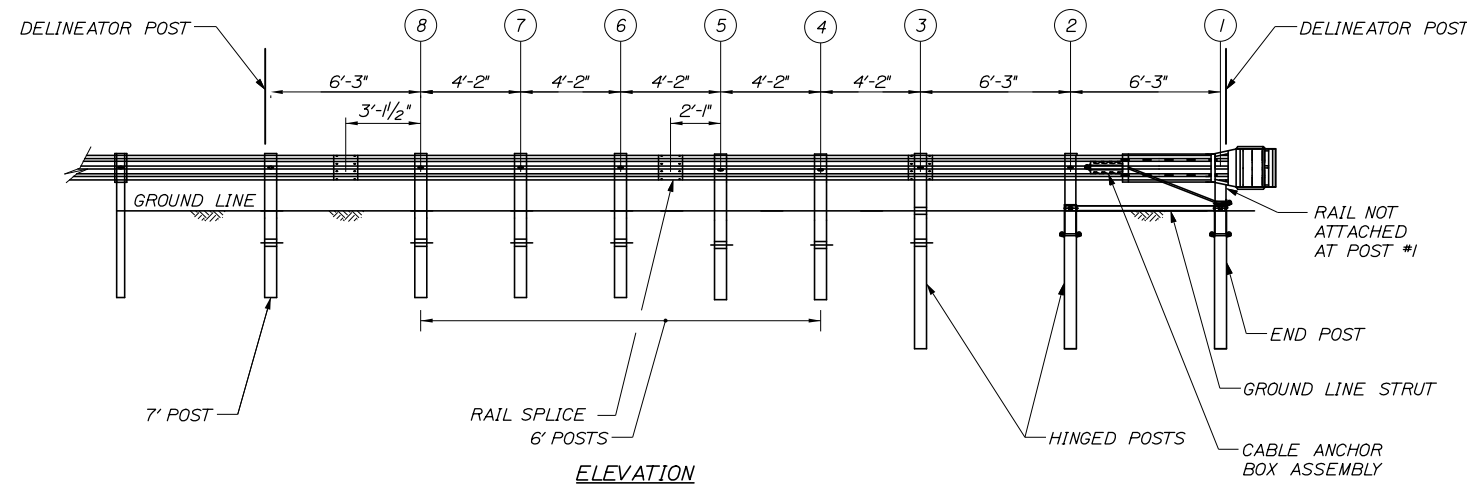


PLAN



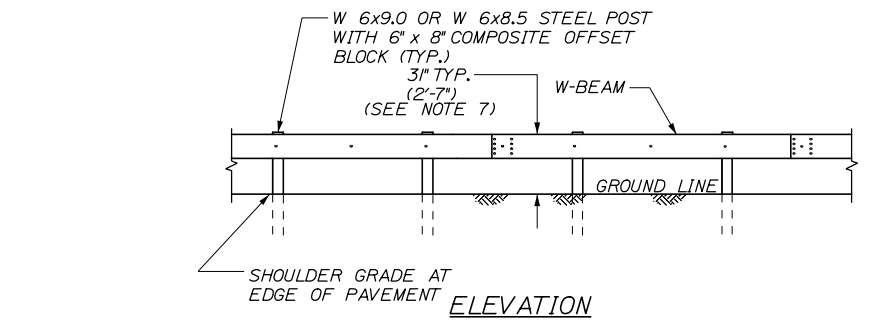
PLAN - SINGLE FACED

CROSS-SECTION

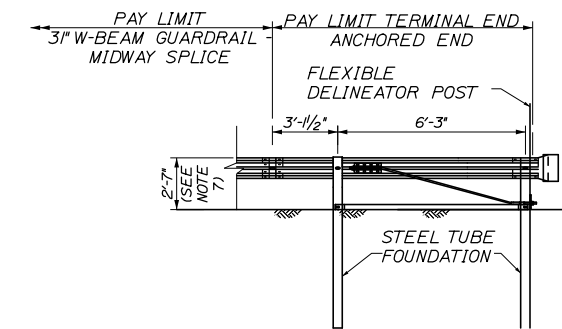


ELEVATION

3" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL
NOT TO SCALE



3" W-BEAM GUARDRAIL - MID-WAY SPLICE (8" OFFSET BLOCKS)
NOT TO SCALE

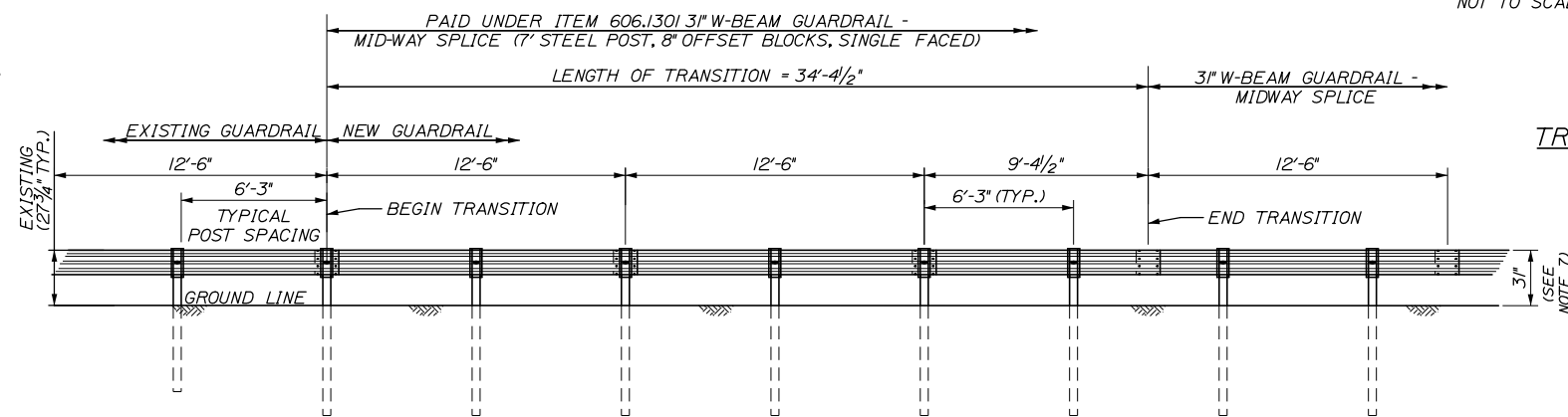


TERMINAL END - ANCHORED END - 3" W-BEAM GUARDRAIL
NOT TO SCALE

NOTES:
1. THIS DETAIL MODIFIES THE SEW31 DRAWING SUCH THAT W-BEAM DOES NOT EXTEND BEYOND THE LAST GUARDRAIL POST. THE RWMI4a W-BEAM PANEL SHALL HAVE A LENGTH OF 9'-4 1/2" MEASURED FROM THE CENTER OF THE MIDWAY SPLICE TO THE CENTER OF THE LAST GUARDRAIL POST.

GENERAL GUARDRAIL INSTALLATION NOTES:

1. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION OF ALL GUARDRAIL COMPONENTS TO BE INSTALLED. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY CONFLICTS OR IRREGULARITIES BETWEEN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASH END TREATMENT ON ALL GUARDRAIL ENDS PRIOR TO THE REMOVAL OF ANY MOT FEATURES.
3. GUARDRAIL HEIGHT SHALL BE 3". GUARDRAIL HEIGHT SHALL BE MEASURED FROM AT GROUND ELEVATION ADJACENT TO EACH POST.
4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CUT BOLTS, DISCARD PARTS, TRASH, PAVEMENT DEBRIS, ETC., AFTER COMPLETING THE GUARDRAIL INSTALLATION.
5. TERMINAL UNIT SHALL BE MFLAET AND MASH CERTIFIED AS MANUFACTURED BY ROAD SYSTEMS INC.
6. SEE SPECIFICATIONS FOR REFLECTIVE SHEETING REQUIREMENTS.
7. ON TURNPIKE MAINLINE TOP OF GUARDRAIL HEIGHT SHALL BE 32" ABOVE THIS CONTRACT'S FINAL PAVEMENT SURFACE. THIS WILL RESULT IN A HEIGHT OF 30 1/2" ABOVE A FUTURE 1/2" OVERLAY, INSTALLED BY OTHERS.



TRANSITION FROM EXISTING GUARDRAIL TO 3" MID-WAY SPLICED GUARDRAIL
NOT TO SCALE

TRANSITION FROM EXISTING GUARDRAIL NOTES:


1. MAINTAIN STANDARD 1" CLEARANCE OF POST ABOVE PANEL THROUGHOUT THE ENTIRE LENGTH OF TRANSITION.
2. A MINIMUM OF ONE (1) 12'-6" PANEL SHALL BE PLACED BETWEEN THIS TRANSITION AND THE START OF ANY END TREATMENT OR ANCHORAGE.
3. ALL NEW POSTS SHALL BE 84" IN LENGTH UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

Filename: 0XX_GuardrailDetail01.dgn

Scale: NOT TO SCALE				
No.	Revision	By	Date	

Designed by:				
HNTB				
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.				
	By	Date		By
	EDD	09\20		JRH

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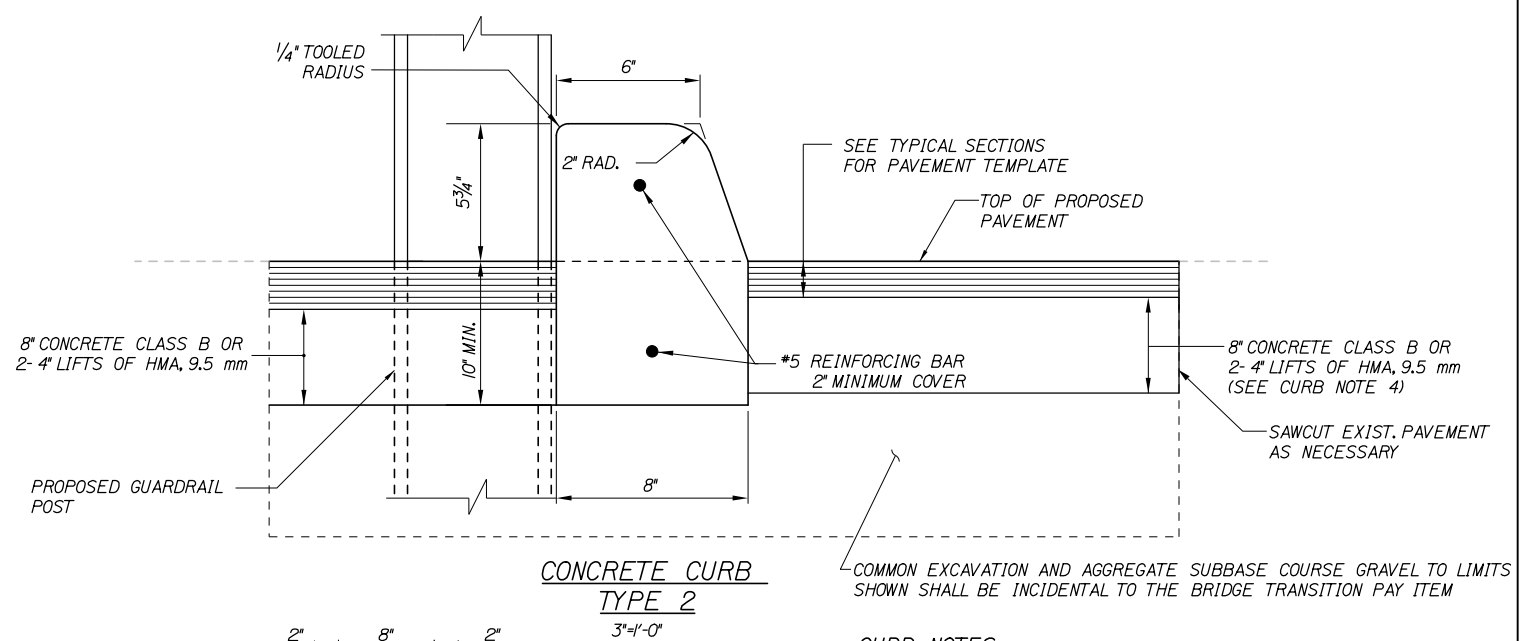
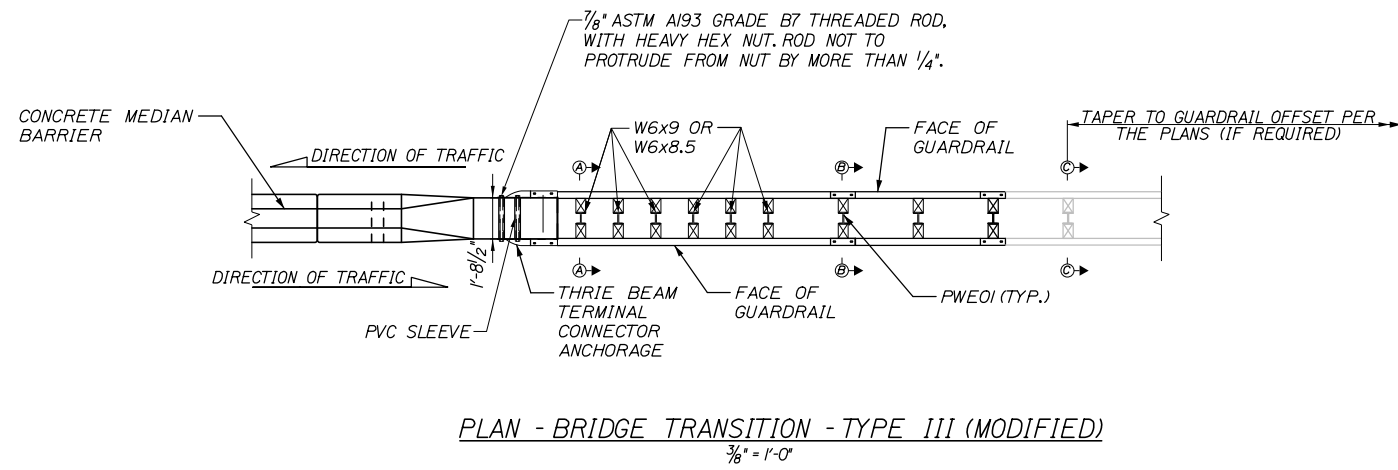
THE GOLD STAR MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
MISCELLANEOUS DETAILS (3 OF 10)

SHEET NUMBER: DT-03
CONTRACT: 2021.07
96 OF 431

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

Date: 1/14/2021

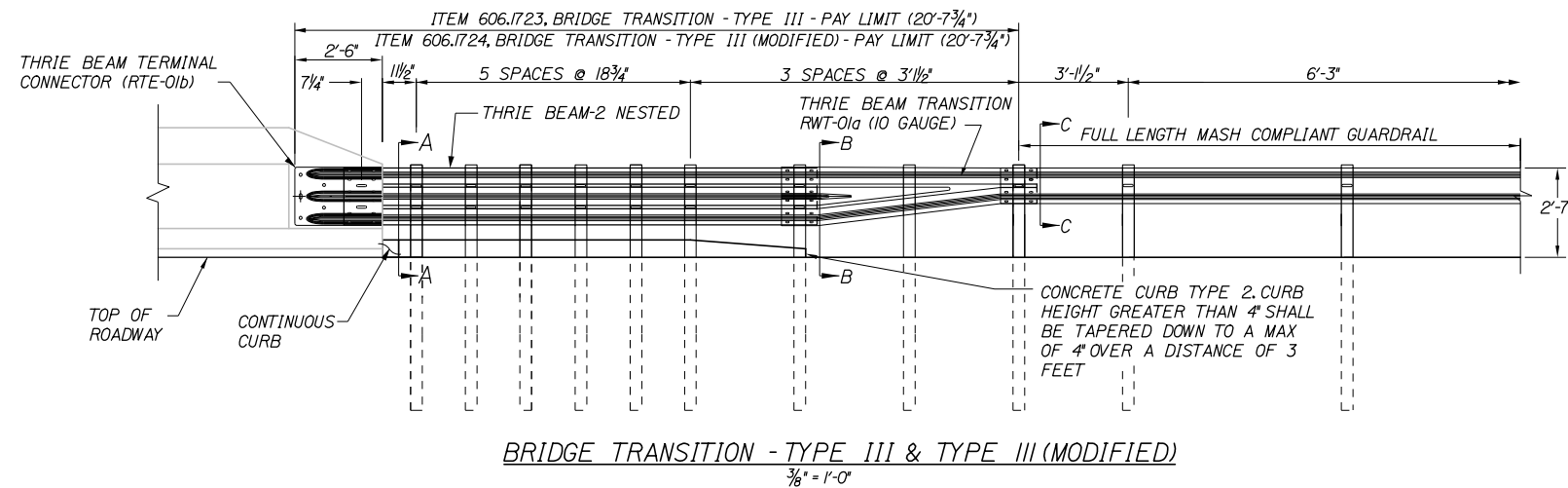
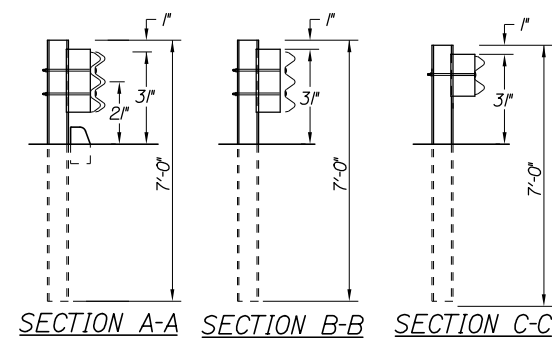
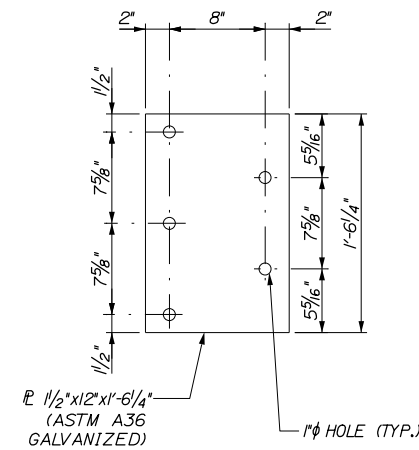
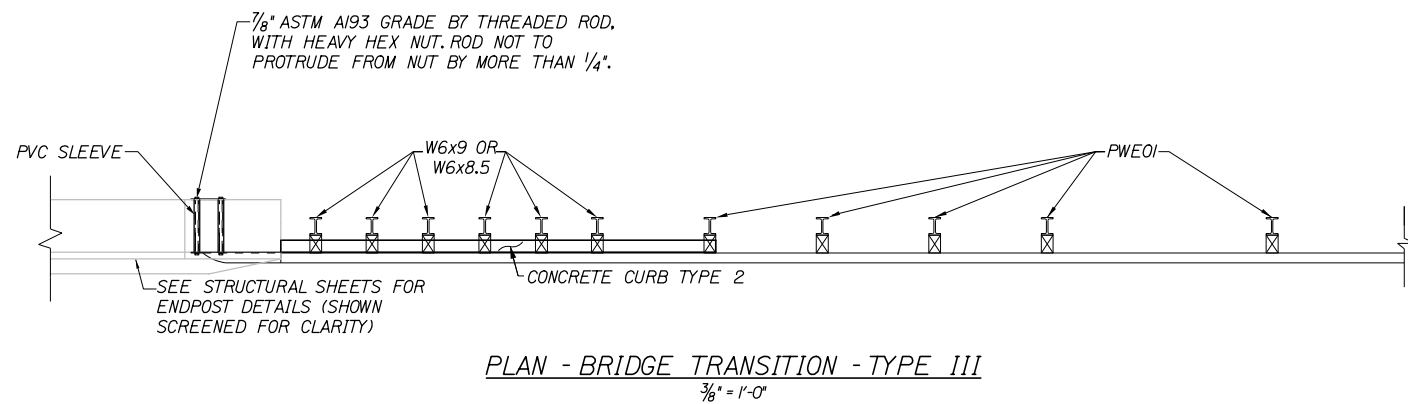


CURB NOTES:

1. CURBING SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS.
2. CONCRETE CURBS USED IN CONJUNCTION WITH THRIE-BEAM BRIDGE TRANSITION SHALL BE TYPE 2. SEE DETAILS THIS SHEET. CONCRETE CURBS SHALL BE SET TO FORM A CONTINUOUS GUTTERLINE WITHOUT ANY DRAINAGE OPENINGS.
3. CURB TRANSITION SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.
4. SAWCUTTING EXISTING PAVEMENT, CONCRETE FILL AND PAVEMENT TO LIMITS SHOWN SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.

GUARDRAIL NOTES:

1. ADDITIONAL HOLES MAY BE MADE IN THE THRIE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN HOLE. BURNING HOLES WILL NOT BE ALLOWED.
2. THRIE BEAM SHALL BE PLACED WITH THE COMPOSITE BLOCKOUT FACE IN FRONT OF OR DIRECTLY ABOVE THE CURB FACE.
3. RAIL ELEMENT SHALL MEET ALL REQUIREMENTS OF AASHTO M-180 EXCEPT AS MODIFIED ON THE PLANS. THE THRIE BEAM TRANSITION TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE LESS THAN 10 GAUGE.
4. AFTER INSTALLATION IS COMPLETE, UPSET THE THREAD ON THE ANCHOR BOLTS IN THREE PLACES AROUND EACH BOLT, AT THE JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER PUNCH OR SIMILAR TOOL.
5. STANDARD BARRIER HARDWARE HAS BEEN USED TO DEVELOP THESE GUARDRAIL ATTACHMENTS. DESIGNATIONS PROVIDED IN PARENTHESES RELATE TO STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED BARRIER RAIL HARDWARE," 1995, AASHTO-AGC-ARTBA JOINT COOPERATE COMMITTEE, 2013 UPDATE.
6. 1" HOLE IN CONCRETE SHALL BE FORMED BY A 1" I.D. PVC SLEEVE AS APPROVED BY THE ENGINEER.
7. GUARDRAIL HEIGHT SHALL BE ADJUSTED UNIFORMLY BETWEEN SECTION CALLOUTS.




Filename: 0XX_GuardrailDetail02.dgn

Scale:			
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No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	EDD	09\20	
	Checked	JRH	09\20
	By	Date	
	AJS	09\20	
	In Charge of	RAL	09\20

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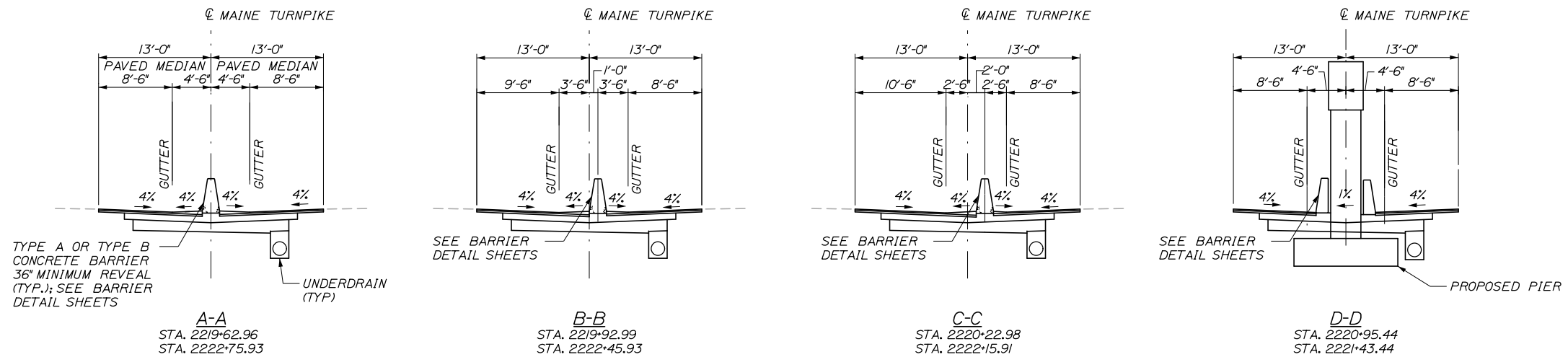
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

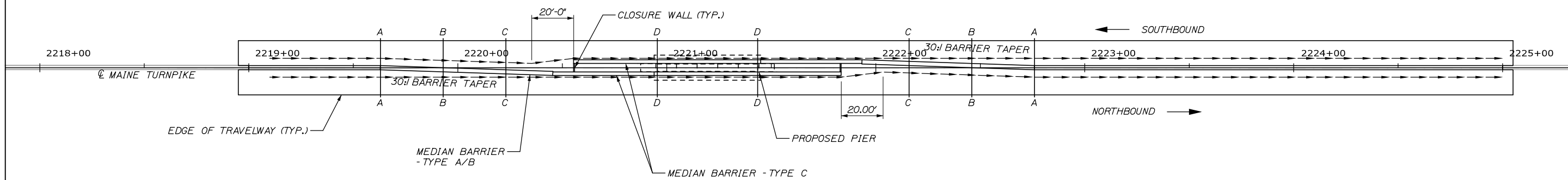
EXIT 45
INTERCHANGE RECONFIGURATION
MISCELLANEOUS DETAILS (4 OF 10)

SHEET NUMBER: DT-04
CONTRACT: 2021.07
77 OF 431

Date: 1/14/2021



NOTES:
 1. SECTIONS ABOVE ARE SHOWN MIRRORED FOR SOUTHBOUND TRAFFIC.



PLAN VIEW

Filename: 0XX_Barrier_Trans_Detail.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


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Designed	EDD	09\20	Checked	JRH	09\20
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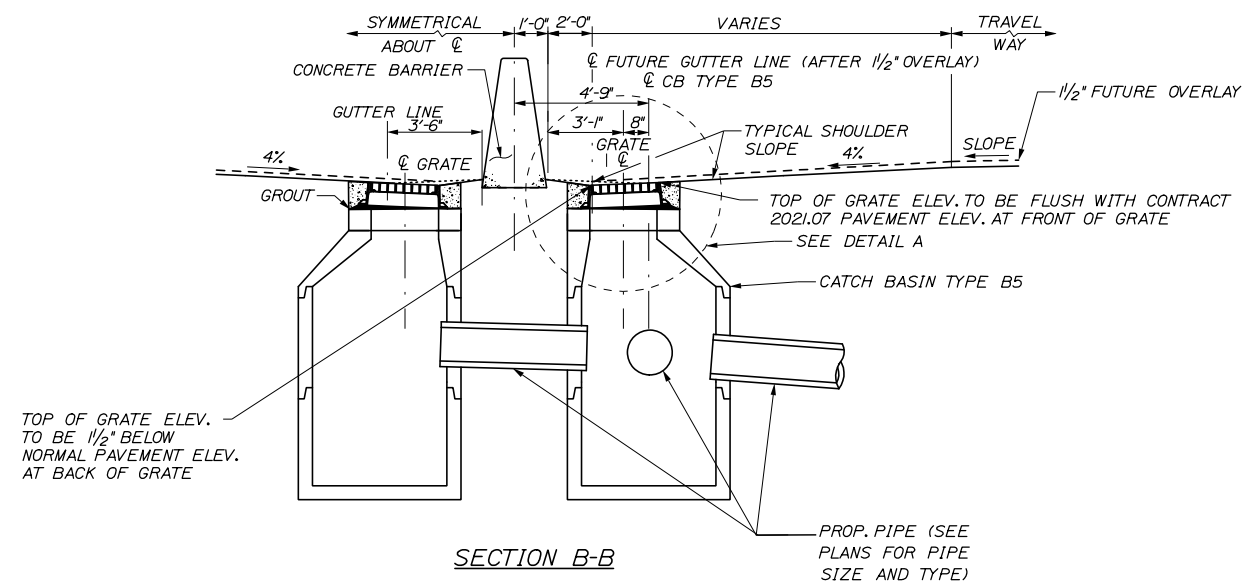
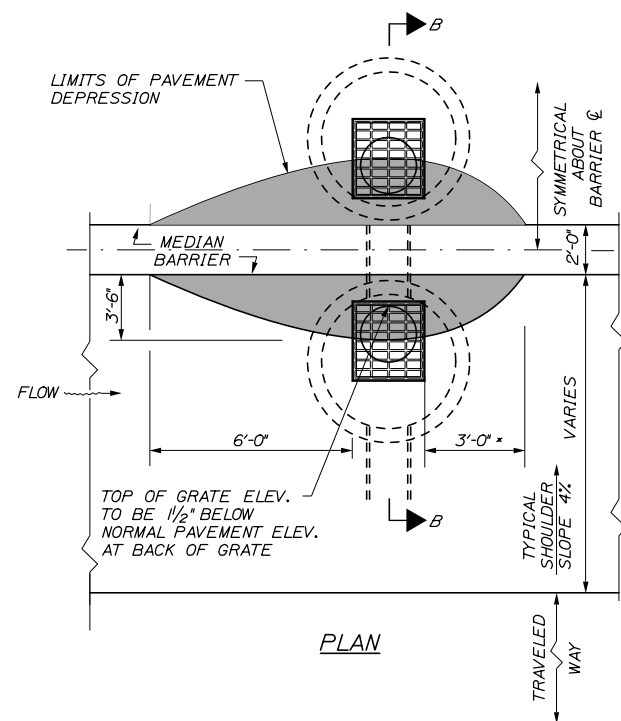
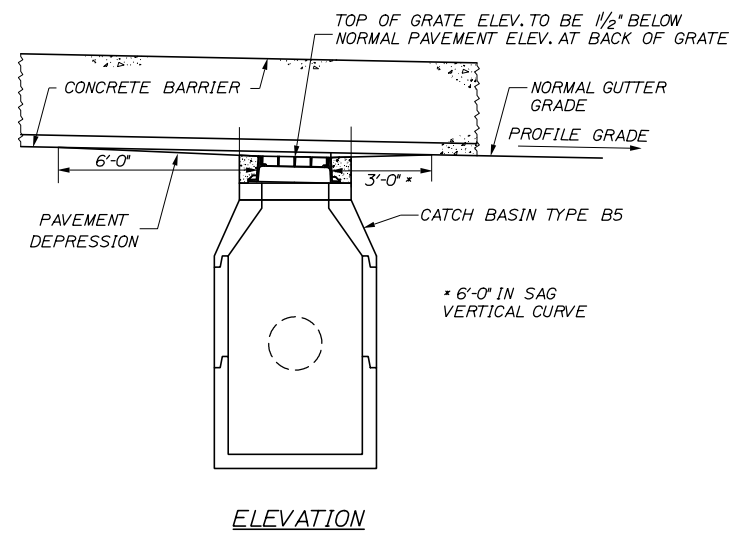
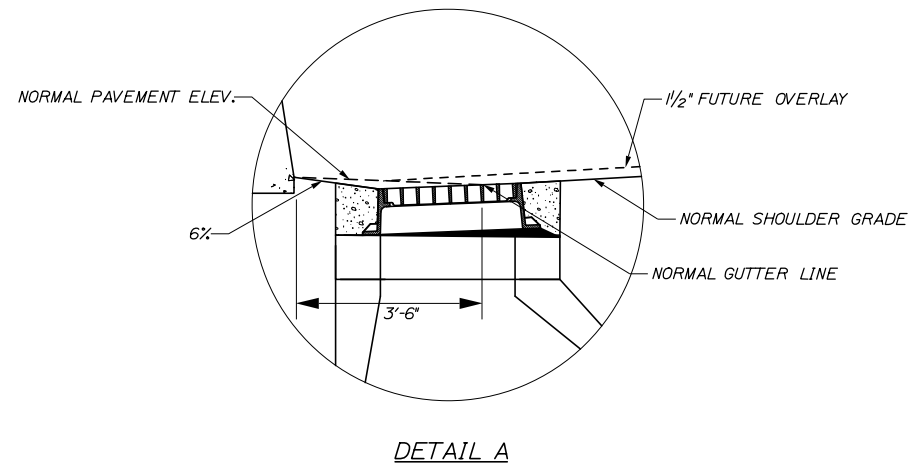

**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION**
 MISCELLANEOUS DETAILS (5 OF 10)

SHEET NUMBER: DT-05
 CONTRACTS: 2021.07
 78 OF 431

Date: 1/14/2021



PLACEMENT OF DRAINAGE STRUCTURES
ALONG MAINLINE BARRIER
N.T.S.

NOTES:
1. BRICKS SHALL NOT BE USED TO ADJUST FRAMES TO GRADE

Filename: 00X_Drainage_Detail01.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	By	Date	
	By	Date	
	By	Date	

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

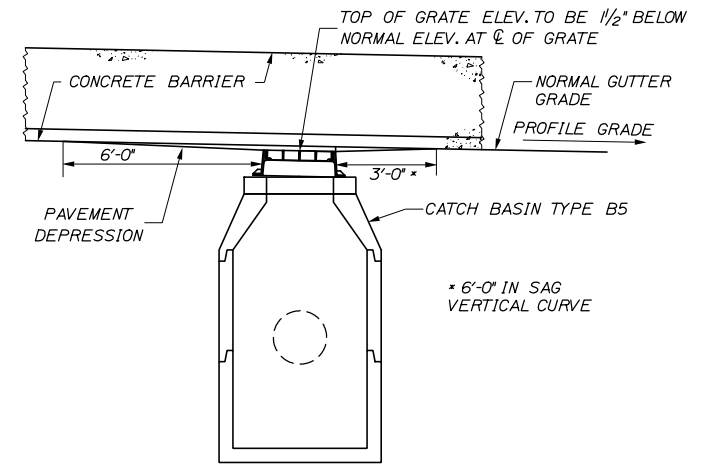
EXIT 45
INTERCHANGE RECONFIGURATION

MISCELLANEOUS DETAILS (6 OF 10)

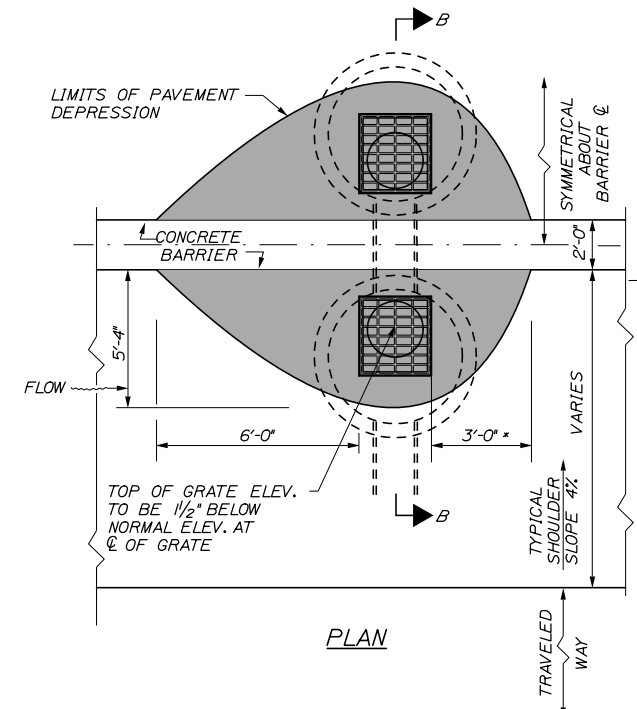
SHEET NUMBER: DT-06
CONTRACT: 2021.07
79 OF 431

Date: 1/14/2021

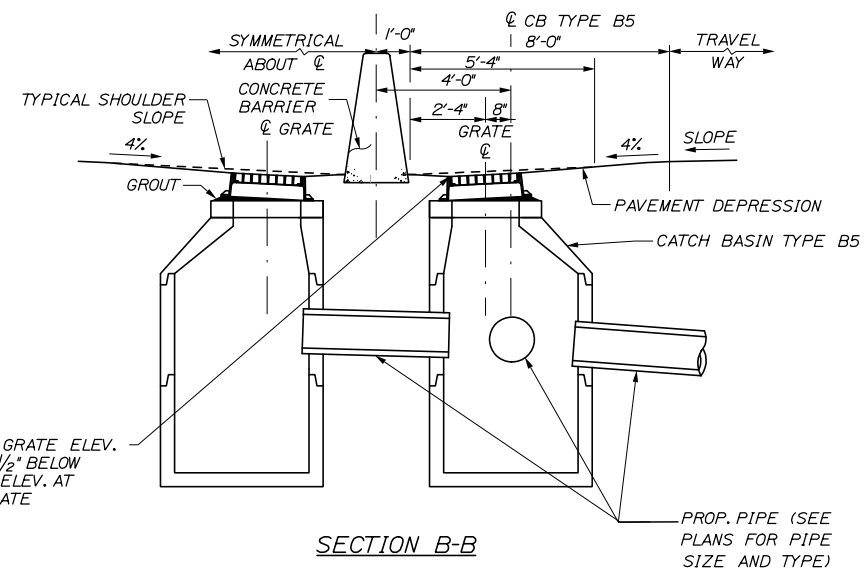
Filename: 00X_Drainage_Detail02.dgn



ELEVATION



PLAN



SECTION B-B

PLACEMENT OF DRAINAGE STRUCTURES
ALONG ROUTE 703 BARRIER
N.T.S.

NOTES:
1. BRICKS SHALL NOT BE USED TO ADJUST FRAMES TO GRADE

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

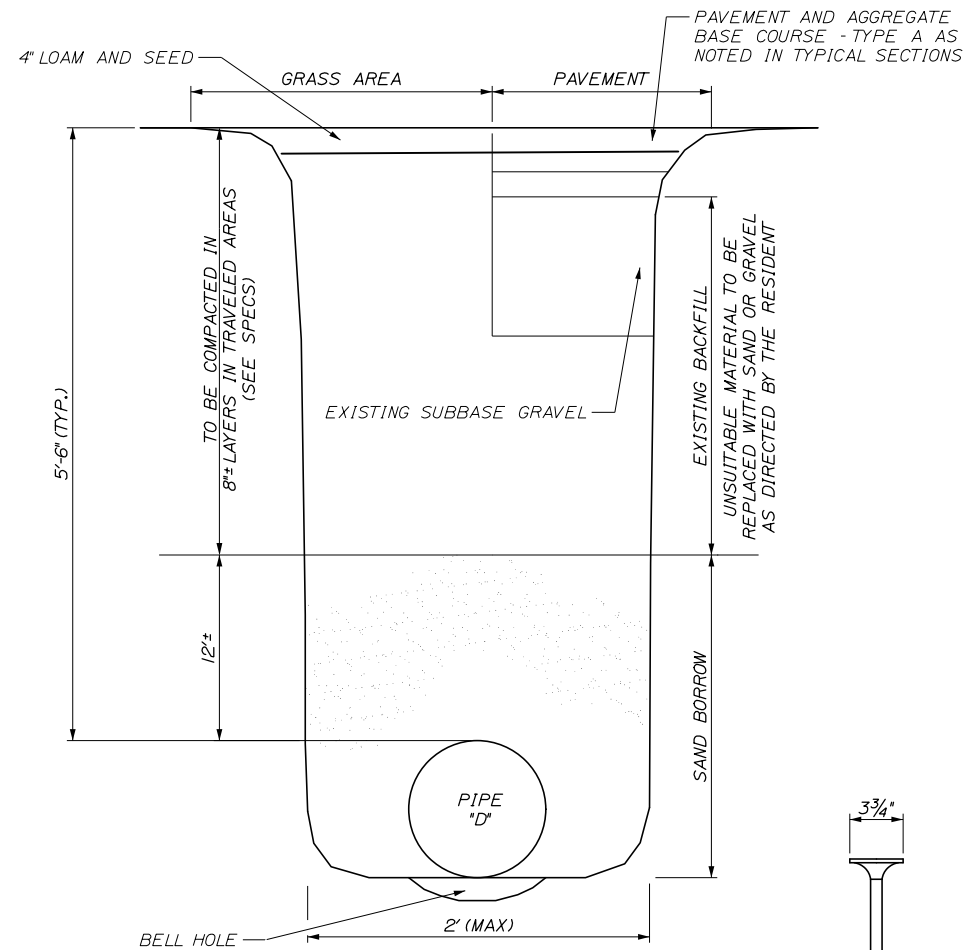
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

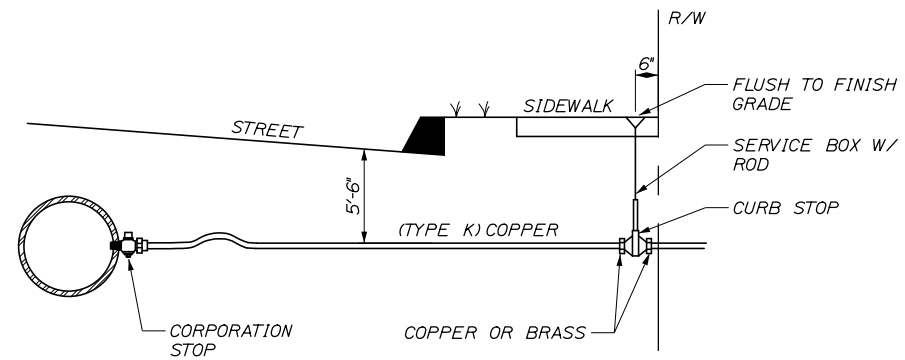
EXIT 45
INTERCHANGE RECONFIGURATION
MISCELLANEOUS DETAILS (7 OF 10)

SHEET NUMBER: DT-07
CONTRACT: 2021.07
80 OF 431

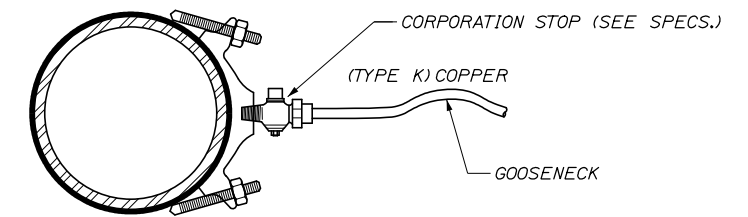
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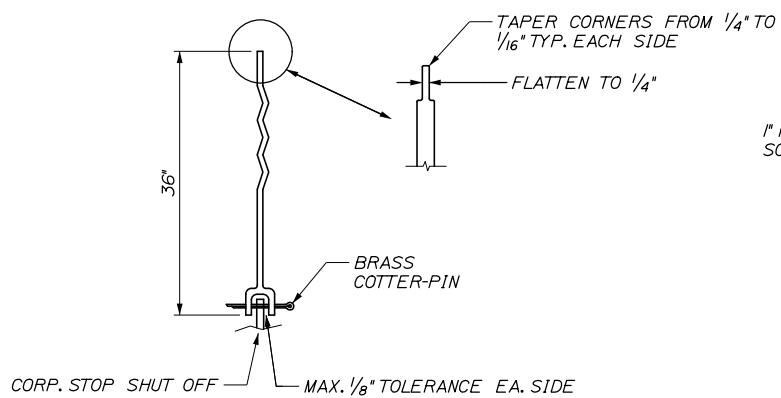
EARTH TRENCH



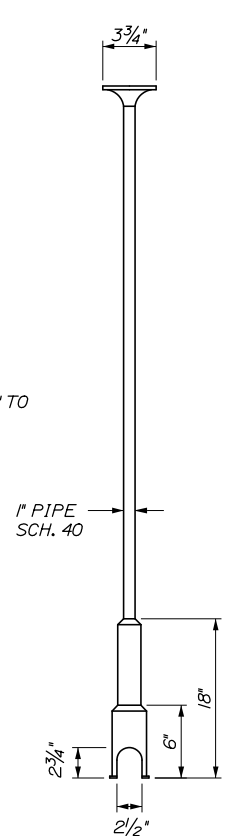
TYPICAL SERVICE CONNECTION



SERVICE SADDLE
(1-1/2" AND 2" C.C. THREAD)



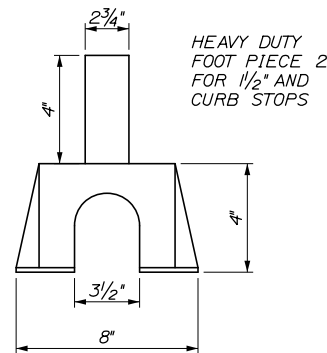
SERVICE ROD



SERVICE BOX



COVER

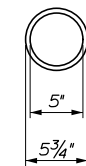


FOOT PIECE

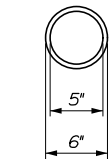
STANDARD FOOT PIECE 1" FOR 3/4" AND CURB/STOPS

NOTE: ANY EXTENSION OF SERVICE BOX REQUIRES:

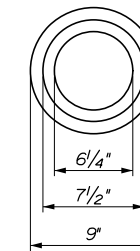
1. 1" FEMALE IRON PIPE COUPLING
2. 1" THREADED PIPE (THIS IS TO BE A NON-WELDED, TWO PIECE ARRANGEMENT. SLIP ON ADAPTERS ARE NOT PERMISSIBLE.)



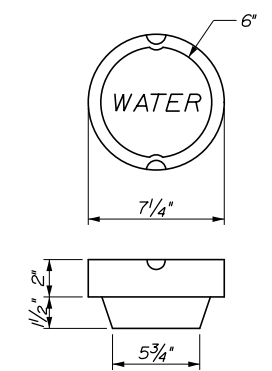
BASE SECTION NO. 645



INTERMEDIATE SECTION NO.58



TOP SECTION NO.56



DROP STYLE COVER

(NUMBERS ARE FOR 5 1/4" BUFFALO VALVE BOXES) (BASE SECTION MAY BE USED AS INTERMEDIATE SECTION)

NOTE: BELL TYPE BASE WITH BOTTOM LIP

VALVE BOX & COVER

Filename: 00X_Water Service Detail_1.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
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THE GOLD STAR
MEMORIAL HIGHWAY

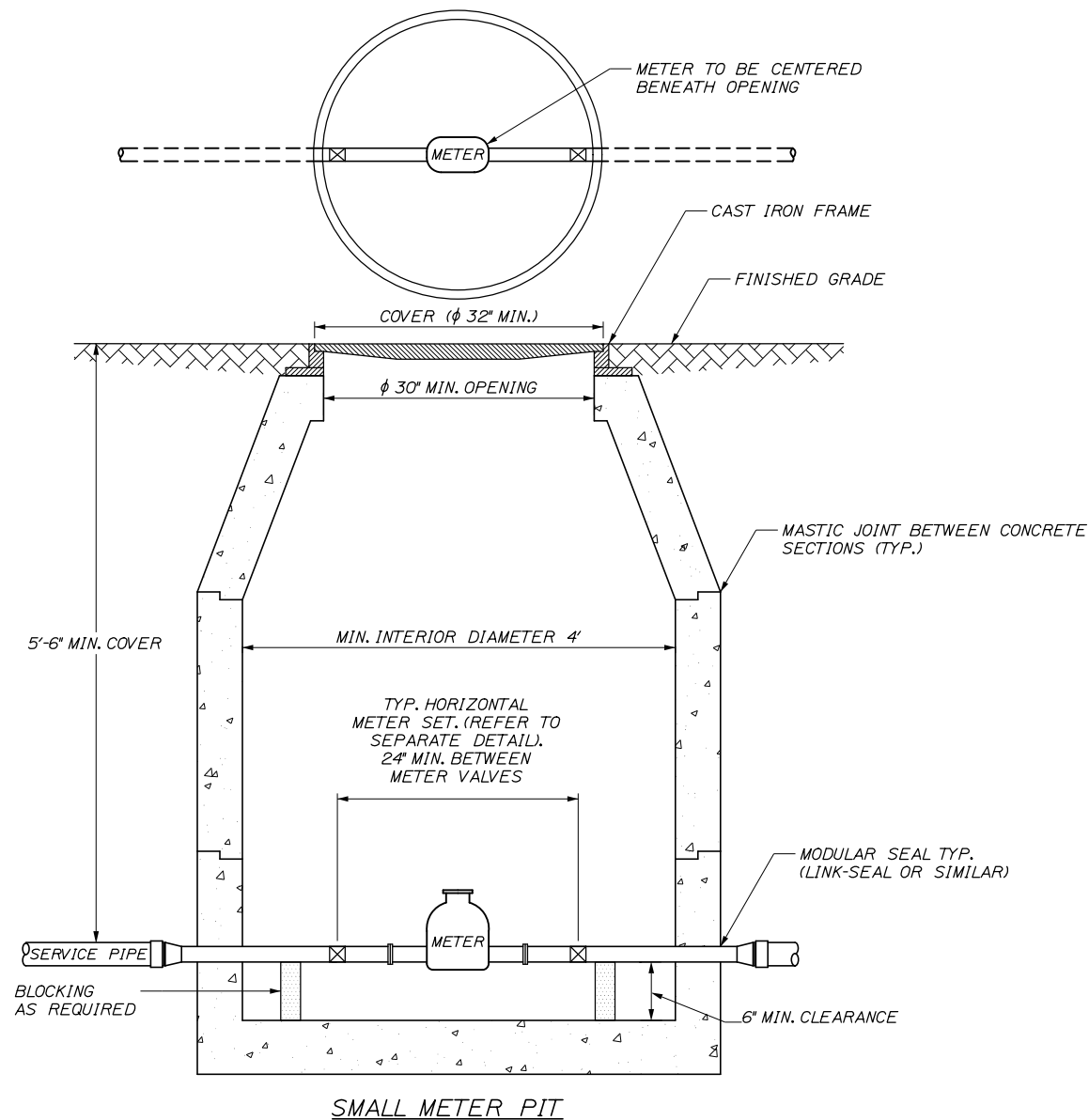
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION

MISCELLANEOUS DETAILS (8 OF 10)

SHEET NUMBER: DT-08
CONTRACT: 2021.07
81 OF 431

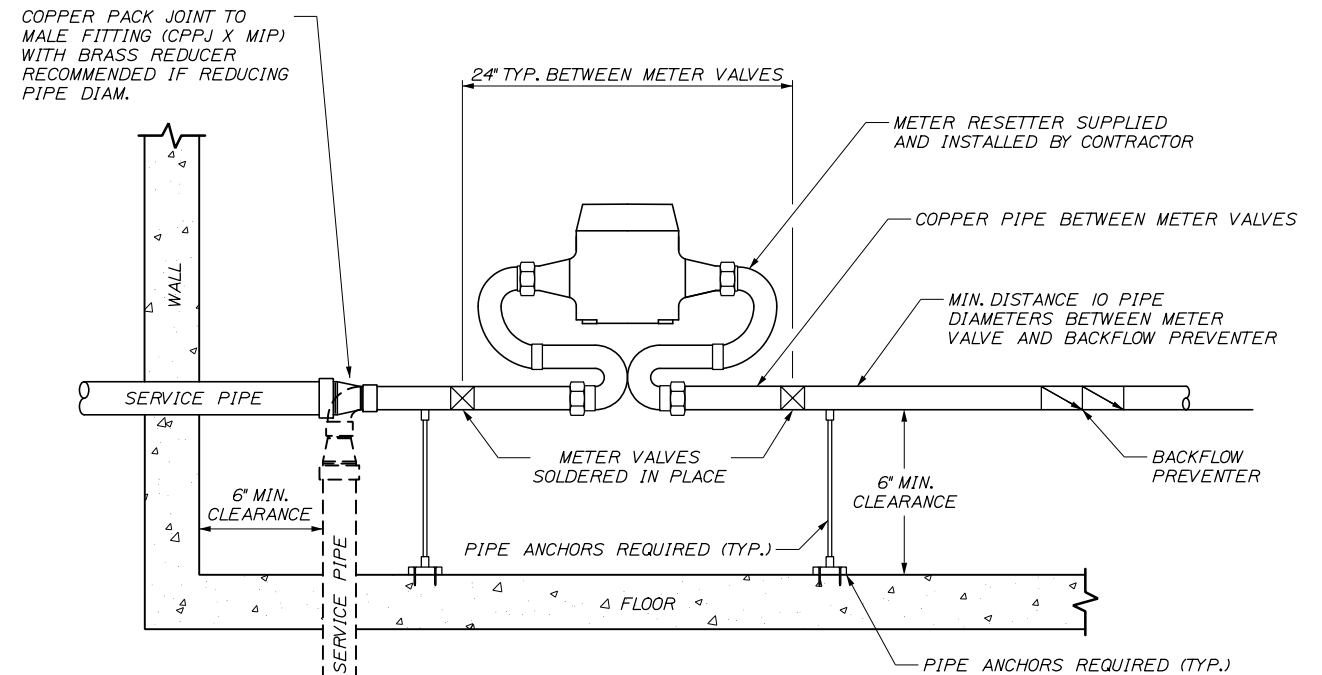
Date: 1/14/2021



SMALL METER PIT

METER PIT AND COVER NOTES

1. THE METER PIT SHALL BE MADE OF PRECAST CONCRETE OF SUFFICIENT SIZE TO PROVIDE 5.5' MINIMUM GROUND COVER FROM FINISHED GRADE TO THE TOP OF THE SERVICE PIPE. ANY SEAMS BETWEEN CONCRETE SECTIONS SHALL BE SEALED WITH MASTIC JOINT. ALL OPENING IN THE CONCRETE FOR SERVICE PIPING SHALL BE SEALED WITH A MODULAR SEAL (LINK-SEAL OR SIMILAR).
2. THE INTERIOR OF THE METER PIT SHALL BE A MINIMUM OF 4' IN DIAMETER, AND THE METER PIT OPENING SHALL BE A MINIMUM OF 30" IN DIAMETER WITH A CAST IRON FRAME. THE METER PIT COVER SHALL BE CAST IRON, 32" MINIMUM IN DIAMETER, AND BE EITHER PERMANENTLY LABELED "WATER" OR HAVE NO LABEL. ANY STEEL PLATE MATERIAL SHALL BE COATED WITH A RUST INHIBITOR PAINT.
3. WALL-MOUNTED LADDER RUNGS SHALL NOT BE INSTALLED WITHIN METER PIT.
4. ALL PIPING INSIDE AND EXTENDING THROUGH THE METER PIT SHALL BE MADE OF COPPER, WITH A MINIMUM OF 6" CLEARANCE FROM THE METER PIT FLOOR. BLOCKING SHALL BE INSTALLED AS REQUIRED TO SUPPORT THE PIPE.



HORIZONTAL METER INSTALLATION

HORIZONTAL METER NOTES

1. PORTLAND WATER DISTRICT (PWD) PERSONNEL WILL INSTALL THE WATER METER. ONLY PWD PERSONNEL SHALL OPERATE SERVICE VALVES.
2. PWD WILL SUPPLY THE WATER METER. ALL OTHER MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
3. THE METER MUST BE LOCATED DIRECTLY AFTER THE SERVICE PIPE ENTERS THE BUILDING. AT THE METER SET LOCATION CONTRACTOR WILL INSTALL METER RESETTER AND METER VALVES, WITH 6" MINIMUM CLEARANCE BETWEEN THE SERVICE PIPE AND ANY WALL OR FLOOR.
4. THE METER SHALL NOT BE PERMANENTLY ENCLOSED WITHOUT SUFFICIENT ACCESS FOR FUTURE SERVICE. THERE SHALL BE A MINIMUM OF 36" OF WORKING SPACE TO ENABLE SERVICING OF THE METER.
5. ACCEPTABLE METER RESETTER MANUFACTURERS INCLUDE: FORD, MUELLER, AND MCDONALD, UNLESS OTHERWISE AGREED TO BY PWD.
6. BACKFLOW PREVENTION IS REQUIRED BY PWD. TYPE OF SERVICE AND DEGREE OF CROSS-CONNECTION HAZARD WILL DETERMINE DEVICE TYPE. DEVICE SHALL BE INSTALLED DOWNSTREAM OF METER AND METER VALVES PRIOR TO METER SET.
7. THERMAL EXPANSION SHOULD BE ADDRESSED BY CONTRACTOR. CHECK LOCAL PLUMBING CODES FOR REQUIREMENTS.
8. CONTRACTOR WILL INSTALL TWO BALL VALVES AT LEAST 24" APART FOR METER INSTALLATION, ALLOWING FOR THE WATER METER TO BE CENTERED UNDER THE METER PIT OPENING. THE BALL VALVES SHALL BE SOLDERED IN PLACE.
9. SPECIAL APPROVAL BY PWD IS REQUIRED, PRIOR TO CONSTRUCTION, FOR ALL PROPOSED METER PIT INSTALLATIONS.
10. TESTABLE BACKFLOW PREVENTION DEVICES MAY NOT BE INSTALLED WITHIN SMALL METER PITS.
11. THE SIZE OF THE METER RESETTER TO MATCH THE SIZE OF THE METER TO BE INSTALLED (5/8", 3/4", OR 1")

Filename: 00X_Water Service Detail_2.dgn

Scale:		Designed by:			
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No.	Revision	By	Date		
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.	
		By	Date	By	Date
		Designed	DEB 09\20	Checked	JRH 09\20
		Drawn	DEB 09\20	In Charge of	RAL 09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

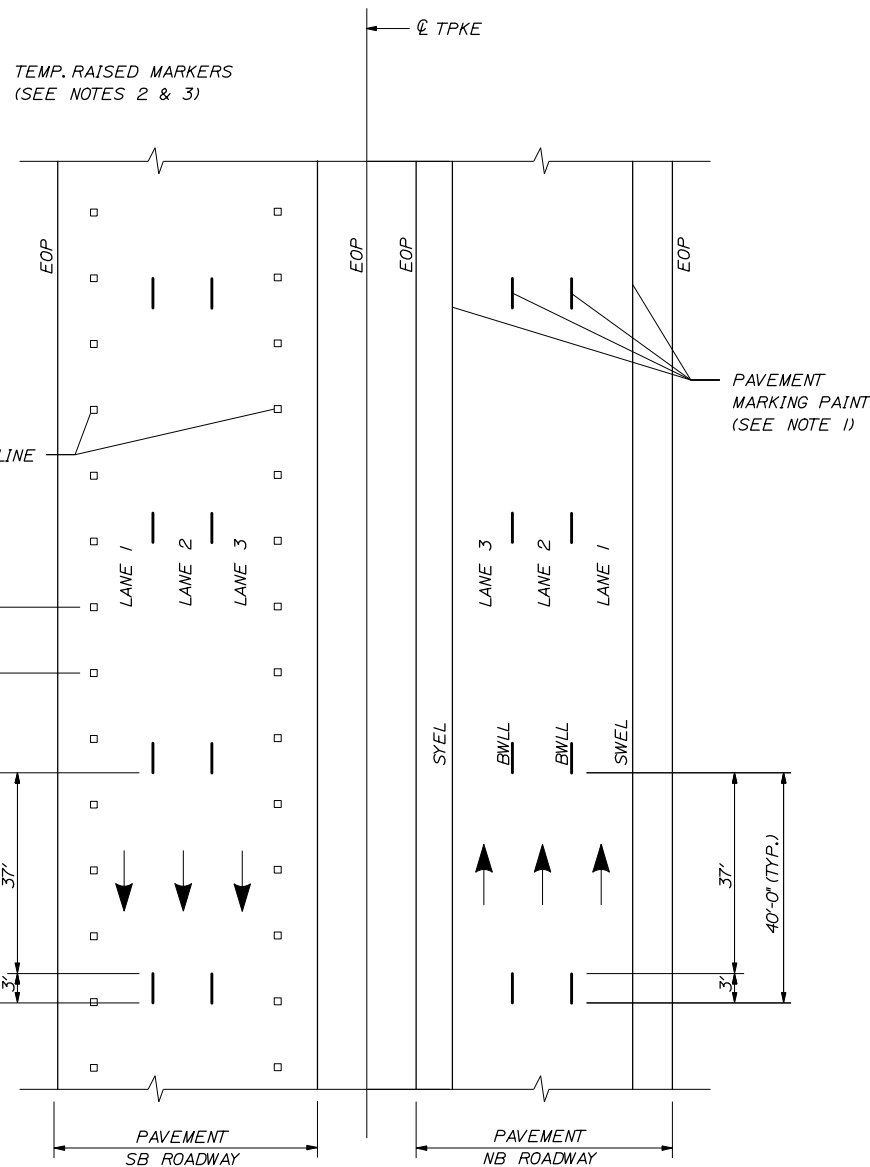
EXIT 45
INTERCHANGE RECONFIGURATION

MISCELLANEOUS DETAILS (9 OF 10)

SHEET NUMBER: DT-09
CONTRACT: 2021.07
82 OF 431

Date: 1/14/2021

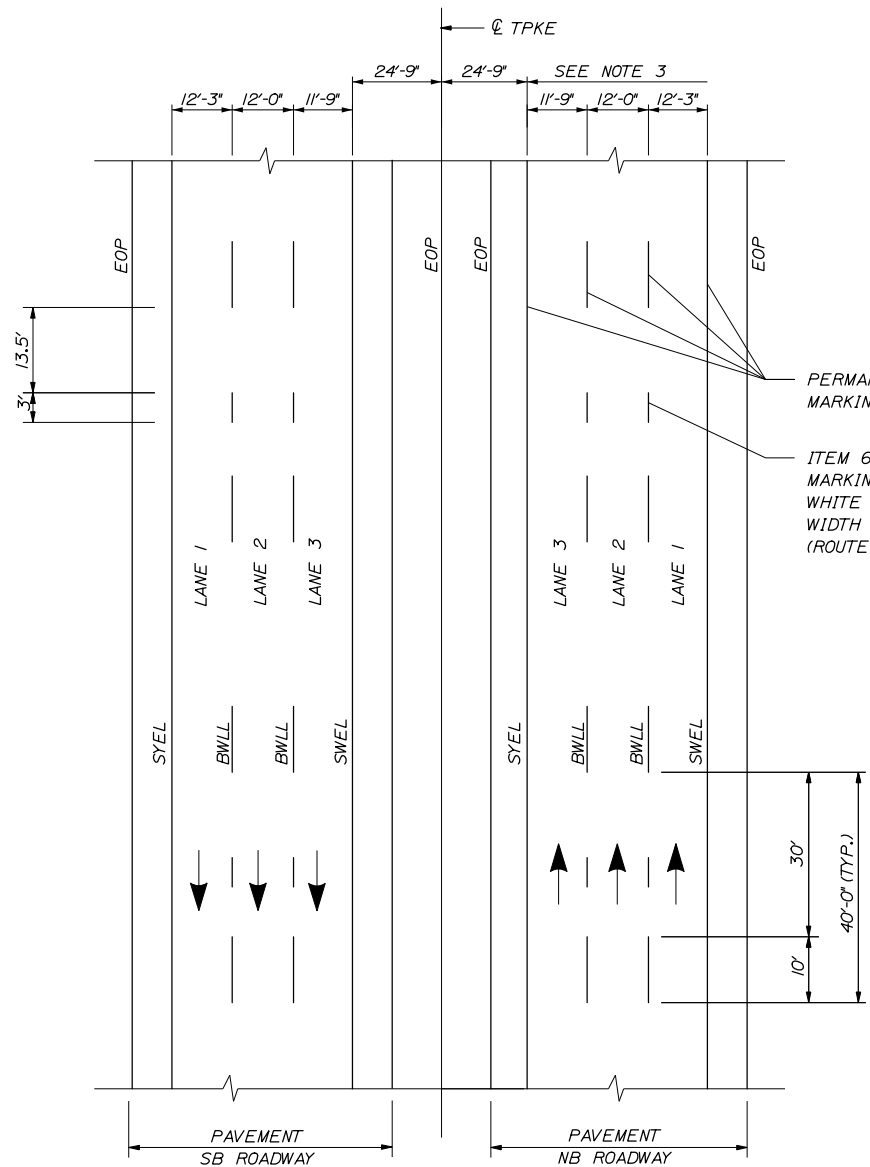
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TEMP. PAVEMENT MARKINGS
3 LANE ROADWAY

NOTES:

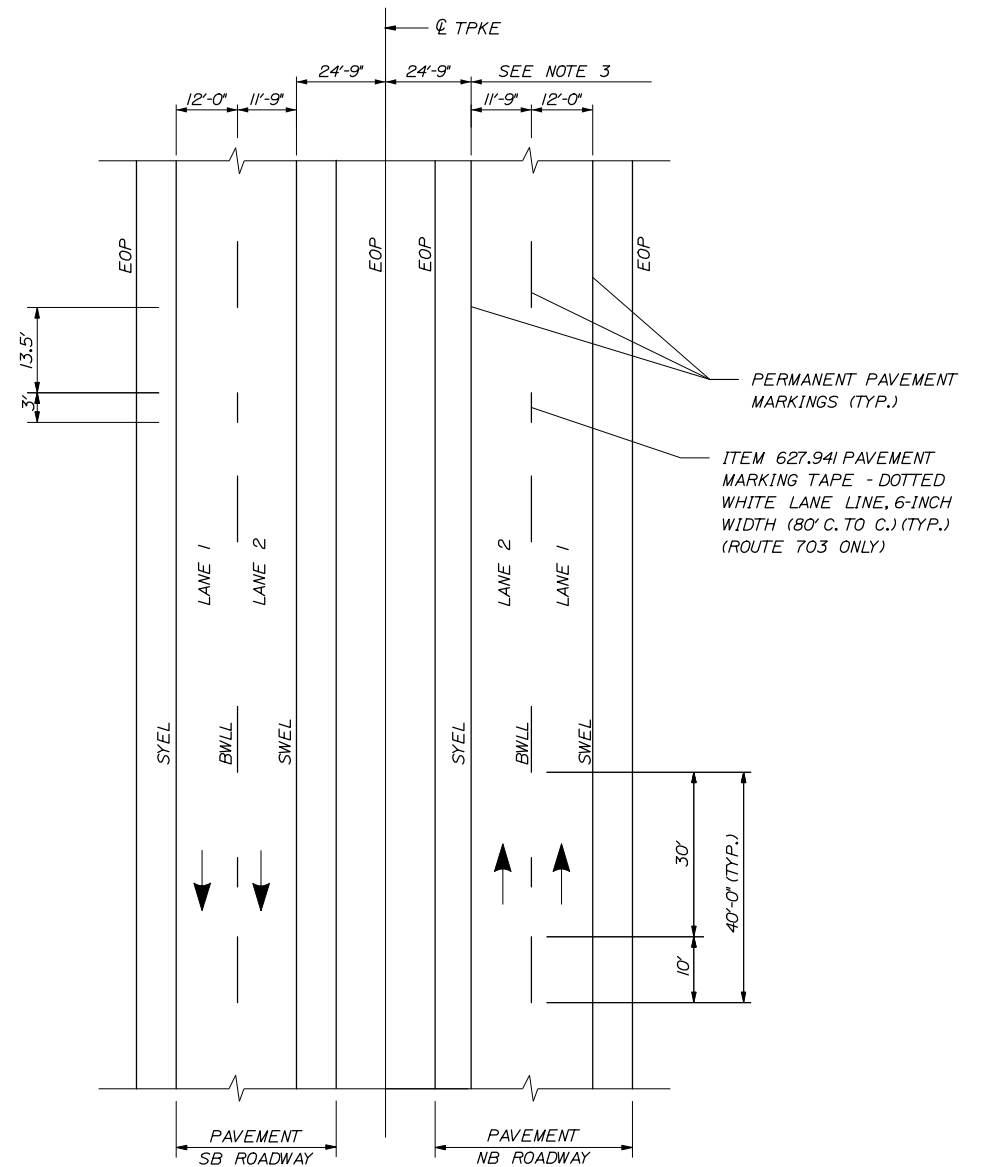
- TEMPORARY PAVEMENT MARKINGS ON MILLED PAVEMENT SHALL BE 6" SOLID WHITE, BROKEN WHITE, AND SOLID YELLOW PAINT LINES.
- SWEL AND SYEL SHALL BE TEMPORARY RAISED PAVEMENT MARKERS SPACED AT 10'-0" O.C. AND OFFSET FROM THE FINAL STRIPING LOCATION.
- BWLL SHALL BE PAVEMENT MARKING TAPE. 3' PIECES SHALL BE PLACED AT 40'-0" O.C. AND OFFSET FROM THE FINAL STRIPING LOCATION.



PAVEMENT MARKING DETAIL
3 LANE ROADWAY

LEGEND

- SYEL = SOLID YELLOW EDGE LINE (6" PAINT)
- SWEL = SOLID WHITE EDGE LINE (6" PAINT)
- BWLL = BROKEN WHITE LANE LINE (6" PAINT)
- EOP = EDGE OF PAVEMENT



PAVEMENT MARKING DETAIL
2 LANE ROADWAY

NOTES:

- PAVEMENT MARKINGS SHALL BE 6" WIDE LINES.
- THE OFFSET DISTANCES SHOWN ARE MEASURED FROM THE CENTER OF THE 6" PAINT LINES.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

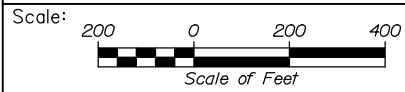
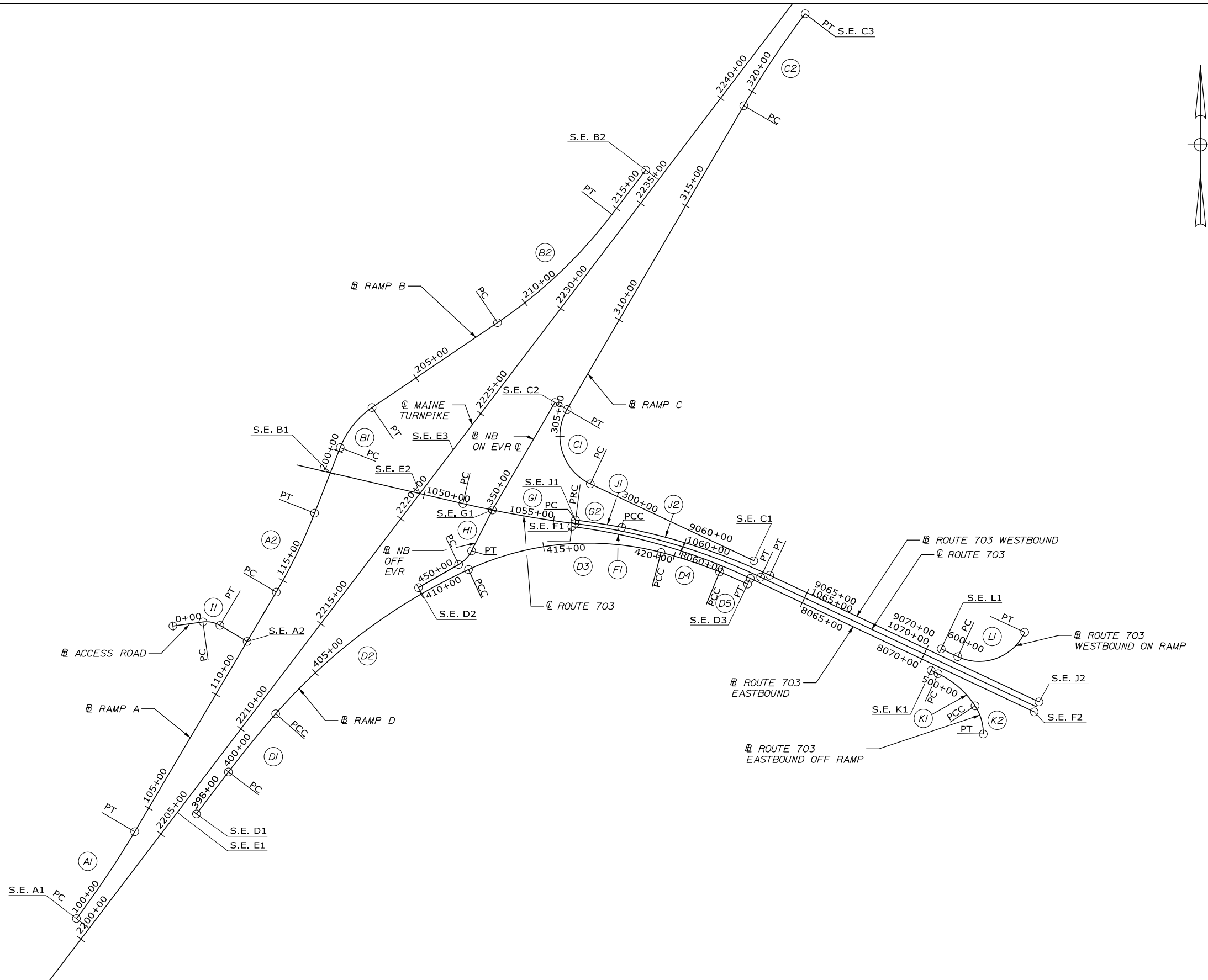
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
MISCELLANEOUS DETAILS (10 OF 10)

SHEET NUMBER: DT-10
CONTRACT: 2021.07
83 OF 431

Date: 1/14/2021

Filename: OXX_Geometric Plan_Diamond.dgn



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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
GEOMETRIC PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	WAD 09\20	In Charge of	RAL 09\20

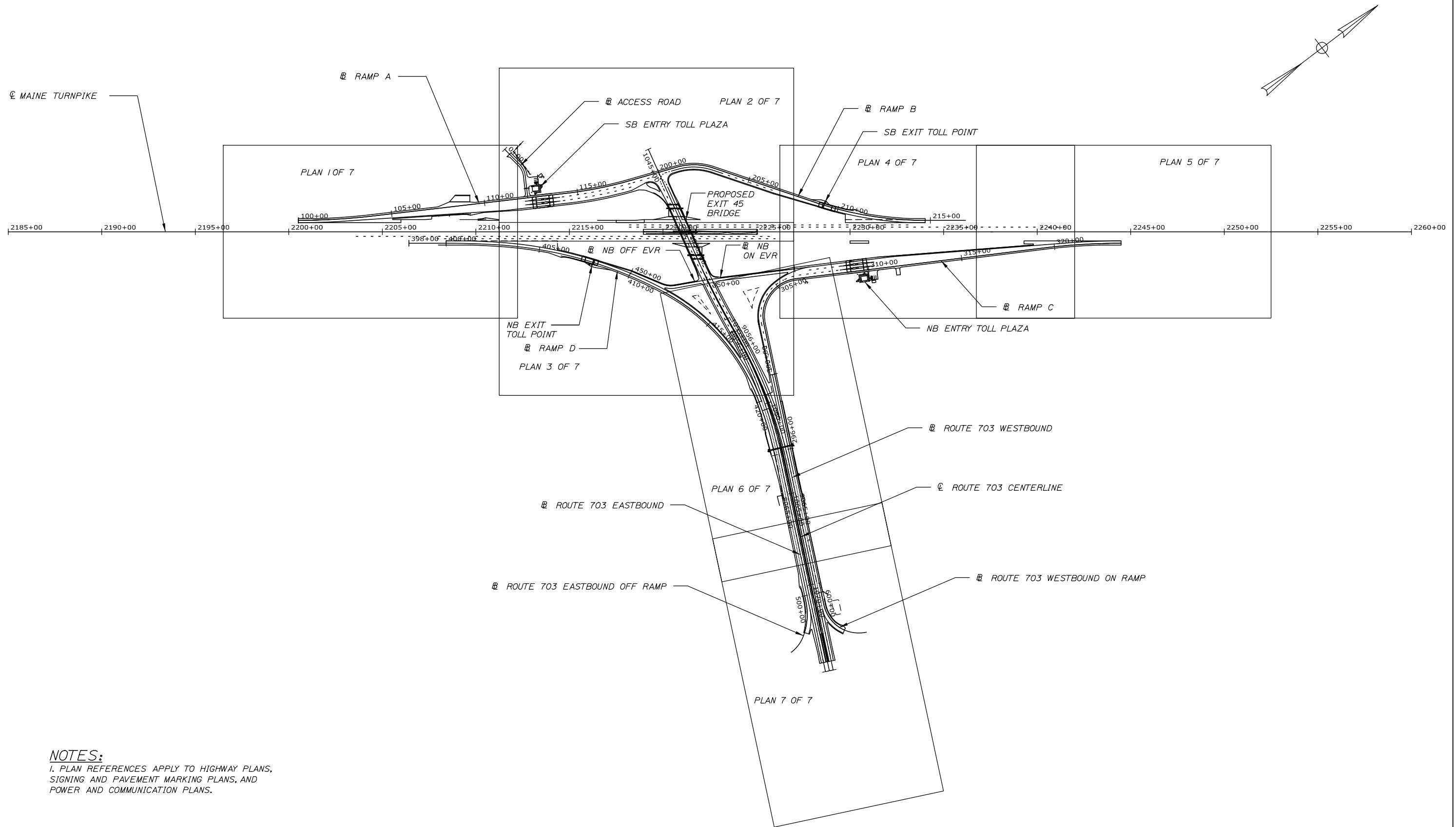
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: GP-01

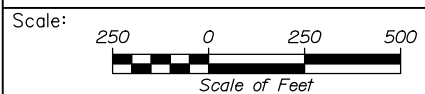
84 OF 431

Date: 1/14/2021



NOTES:

1. PLAN REFERENCES APPLY TO HIGHWAY PLANS, SIGNING AND PAVEMENT MARKING PLANS, AND POWER AND COMMUNICATION PLANS.



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	SLS	09\20	In Charge of	RAL	09\20

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 340 County Road, Suite 6-C
 Westbrook, ME 04092
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 FAX (207) 228-0909

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 KEY PLAN

SHEET NUMBER: KP-01
 86 OF 431

CONTRACT: 2021.07

Filename: 0XX_Key Plan_Diamond.dgn

Date: 1/14/2021

ITEM 606.1301 3" W BEAM GUARDRAIL - MID-WAY SPLICE
 (7' STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 2209+4.82, 65.00' LT. TO STA. 2210+4.94, 65.24' LT.
 STA. 108+55.97, 44.32' RT. TO STA. 108+80.92, 45.80' RT.
 LENGTH 100 LF
 25 LF

ITEM 606.1307 3" W BEAM GUARDRAIL - MID-WAY SPLICE
FLARED TERMINAL
 STA. 2210+4.94, 65.24' LT.
 STA. 108+80.92, 45.80' RT.

ITEM 606.1723 BRIDGE TRANSITION - TYPE III
 STA. 108+35.52, 43.30' RT. TO STA. 108+55.97, 44.32' RT.

ITEM 610.08 PLAIN RIPRAP
 STA. 107+63, 28' LT.
 STA. 109+75, 25' RT.
 LENGTH 289 LF
 92 LF

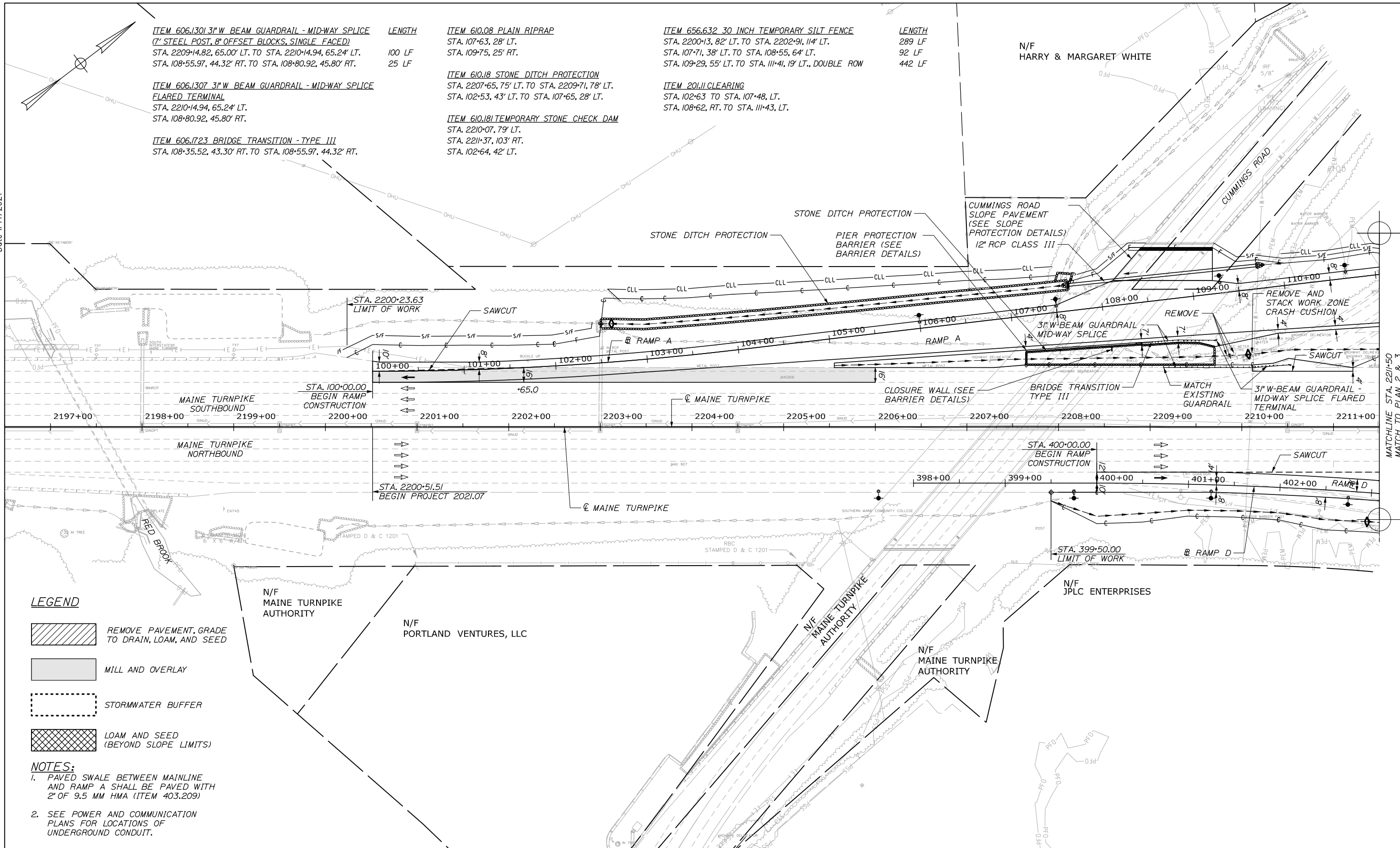
ITEM 610.18 STONE DITCH PROTECTION
 STA. 2207+65, 75' LT. TO STA. 2209+71, 78' LT.
 STA. 102+53, 43' LT. TO STA. 107+65, 28' LT.

ITEM 610.18 TEMPORARY STONE CHECK DAM
 STA. 2210+07, 79' LT.
 STA. 2211+37, 103' RT.
 STA. 102+64, 42' LT.



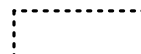

ITEM 656.632 30 INCH TEMPORARY SILT FENCE
 STA. 2200+13, 82' LT. TO STA. 2202+91, 114' LT.
 STA. 107+71, 38' LT. TO STA. 108+55, 64' LT.
 STA. 109+29, 55' LT. TO STA. 111+41, 19' LT., DOUBLE ROW
 LENGTH 289 LF
 92 LF
 442 LF

ITEM 201.11 CLEARING
 STA. 102+63 TO STA. 107+48, LT.
 STA. 108+62, RT. TO STA. 111+43, LT.

N/F HARRY & MARGARET WHITE

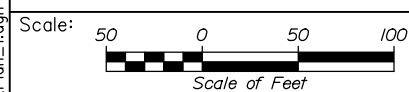


LEGEND

-  REMOVE PAVEMENT, GRADE TO DRAIN, LOAM, AND SEED
-  MILL AND OVERLAY
-  STORMWATER BUFFER
-  LOAM AND SEED (BEYOND SLOPE LIMITS)

NOTES:

1. PAVED SWALE BETWEEN MAINLINE AND RAMP A SHALL BE PAVED WITH 2" OF 9.5 MM HMA (ITEM 403.209)
2. SEE POWER AND COMMUNICATION PLANS FOR LOCATIONS OF UNDERGROUND CONDUIT.



Designed by:



CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	AJS 09\20	In Charge of	RAL 09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 HIGHWAY PLANS (1 OF 7)**

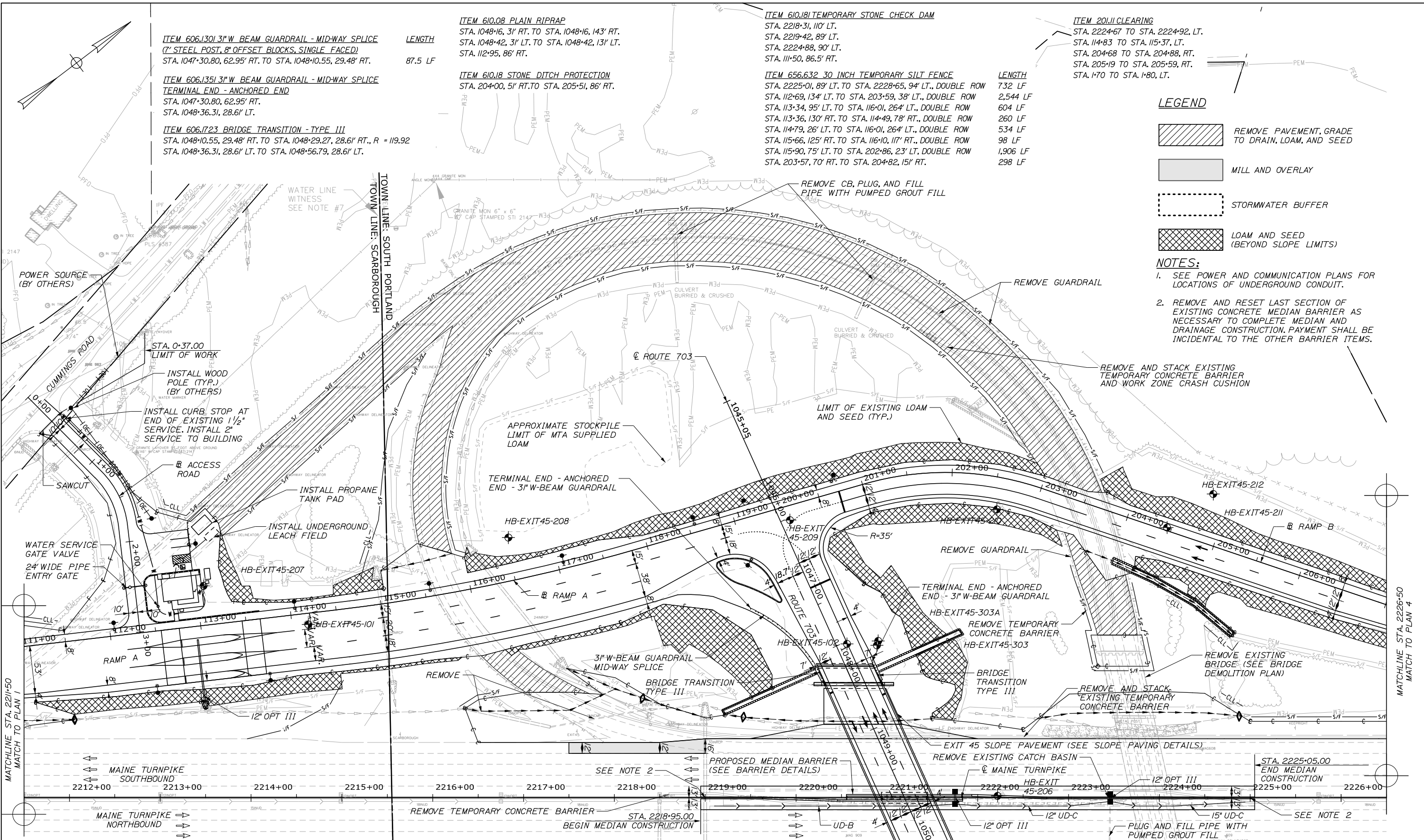
CONTRACT: 2021.07

SHEET NUMBER: PL-01

87 OF 431

Filename: 0XX_HD_Plan_1.dgn

Date: 1/14/2021



Scale: 0 50 100
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

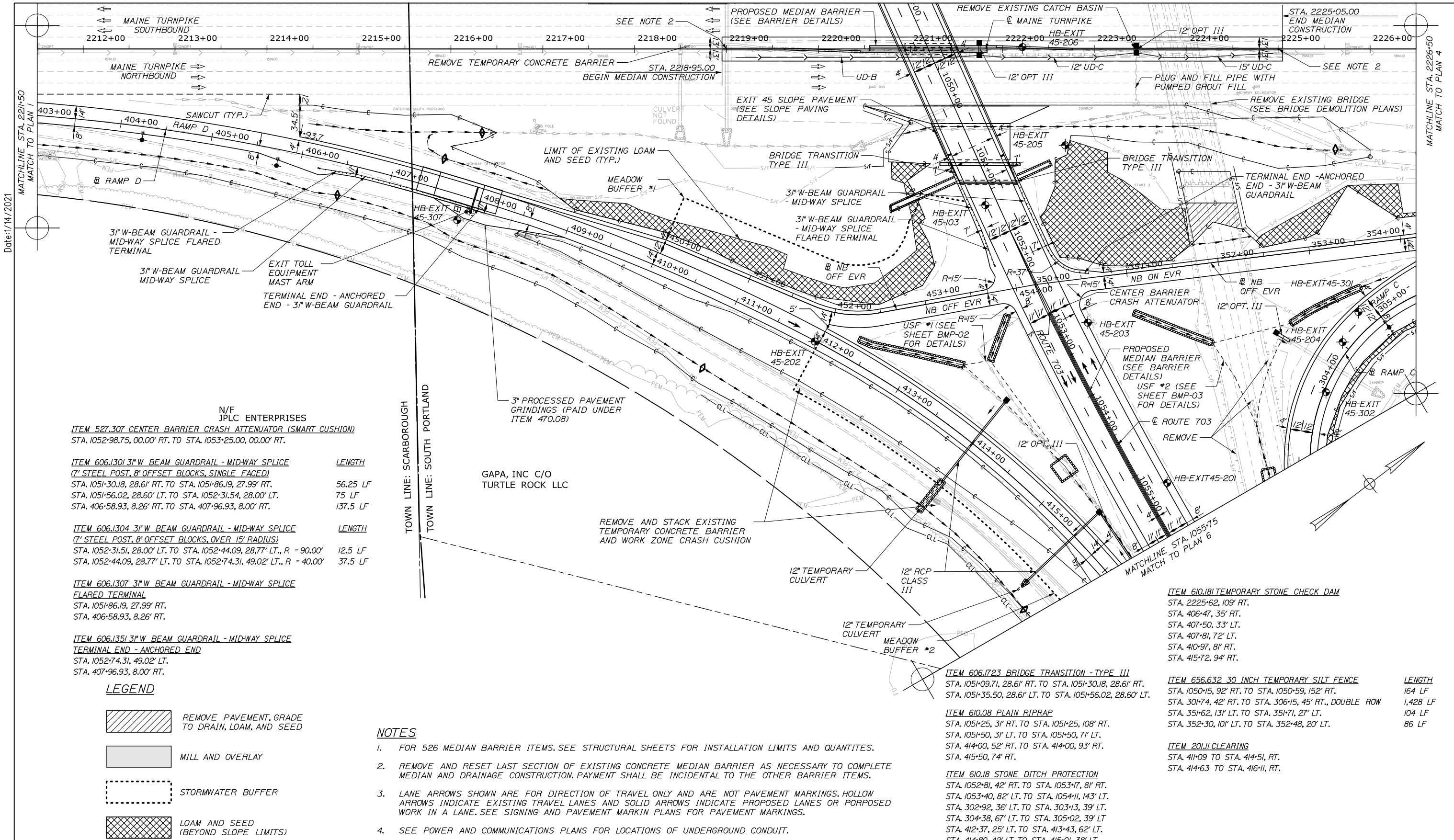
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

HIGHWAY PLANS (2 OF 7)

SHEET NUMBER: PL-02
 88 OF 431

CONTRACT: 2021.07



Date: 1/14/2021

Filename: 0XX_HD_Plan_3.dgn

N/F
JPLC ENTERPRISES
ITEM 527.307 CENTER BARRIER CRASH ATTENUATOR (SMART CUSHION)
STA. 1052+98.75, 00.00' RT. TO STA. 1053+25.00, 00.00' RT.

ITEM 606.1301 3" W BEAM GUARDRAIL - MID-WAY SPLICE
(7' STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
STA. 1051+30.18, 28.61' RT. TO STA. 1051+86.19, 27.99' RT. 56.25 LF
STA. 1051+56.02, 28.60' LT. TO STA. 1052+31.54, 28.00' LT. 75 LF
STA. 406+58.93, 8.26' RT. TO STA. 407+96.93, 8.00' RT. 137.5 LF

ITEM 606.1304 3" W BEAM GUARDRAIL - MID-WAY SPLICE
(7' STEEL POST, 8" OFFSET BLOCKS, OVER 15' RADIUS)
STA. 1052+31.51, 28.00' LT. TO STA. 1052+44.09, 28.77' LT., R = 90.00' 12.5 LF
STA. 1052+44.09, 28.77' LT. TO STA. 1052+74.31, 49.02' LT., R = 40.00' 37.5 LF

ITEM 606.1307 3" W BEAM GUARDRAIL - MID-WAY SPLICE
FLARED TERMINAL
STA. 1051+86.19, 27.99' RT.
STA. 406+58.93, 8.26' RT.

ITEM 606.1351 3" W BEAM GUARDRAIL - MID-WAY SPLICE
TERMINAL END - ANCHORED END
STA. 1052+74.31, 49.02' LT.
STA. 407+96.93, 8.00' RT.

LEGEND

- REMOVE PAVEMENT, GRADE TO DRAIN, LOAM, AND SEED
- MILL AND OVERLAY
- STORMWATER BUFFER
- LOAM AND SEED (BEYOND SLOPE LIMITS)

NOTES

1. FOR 526 MEDIAN BARRIER ITEMS. SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
2. REMOVE AND RESET LAST SECTION OF EXISTING CONCRETE MEDIAN BARRIER AS NECESSARY TO COMPLETE MEDIAN AND DRAINAGE CONSTRUCTION. PAYMENT SHALL BE INCIDENTAL TO THE OTHER BARRIER ITEMS.
3. LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.
4. SEE POWER AND COMMUNICATIONS PLANS FOR LOCATIONS OF UNDERGROUND CONDUIT.

ITEM 606.1723 BRIDGE TRANSITION - TYPE III
STA. 1051+09.71, 28.61' RT. TO STA. 1051+30.18, 28.61' RT. 20.47 LF
STA. 1051+35.50, 28.61' LT. TO STA. 1051+56.02, 28.60' LT. 20.52 LF

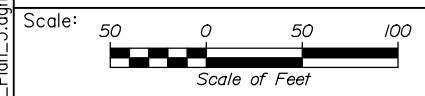
ITEM 610.08 PLAIN RIPRAP
STA. 1051+25, 31' RT. TO STA. 1051+25, 108' RT. 83 LF
STA. 1051+50, 31' LT. TO STA. 1051+50, 71' LT. 41 LF
STA. 414+00, 52' RT. TO STA. 414+00, 93' RT. 41 LF
STA. 415+50, 74' RT. 24 LF

ITEM 610.18 STONE DITCH PROTECTION
STA. 1052+81, 42' RT. TO STA. 1053+17, 81' RT. 36 LF
STA. 1053+40, 82' LT. TO STA. 1054+11, 143' LT. 73 LF
STA. 302+92, 36' LT. TO STA. 303+13, 39' LT. 21 LF
STA. 304+38, 67' LT. TO STA. 305+02, 39' LT. 64 LF
STA. 412+37, 25' LT. TO STA. 413+43, 62' LT. 106 LF
STA. 414+80, 42' LT. TO STA. 415+01, 38' LT. 21 LF

ITEM 610.181 TEMPORARY STONE CHECK DAM
STA. 2225+62, 109' RT. 109 LF
STA. 406+47, 35' RT. 35 LF
STA. 407+50, 33' LT. 33 LF
STA. 407+81, 72' LT. 72 LF
STA. 410+97, 81' RT. 81 LF
STA. 415+72, 94' RT. 94 LF

ITEM 656.632 30 INCH TEMPORARY SILT FENCE
STA. 1050+15, 92' RT. TO STA. 1050+59, 152' RT. 164 LF
STA. 301+74, 42' RT. TO STA. 306+15, 45' RT., DOUBLE ROW 1,428 LF
STA. 351+62, 131' LT. TO STA. 351+71, 27' LT. 104 LF
STA. 352+30, 101' LT. TO STA. 352+48, 20' LT. 86 LF

ITEM 201.11 CLEARING
STA. 411+09 TO STA. 414+51, RT. 342 LF
STA. 414+63 TO STA. 416+11, RT. 148 LF



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION
HIGHWAY PLANS (3 OF 7)**

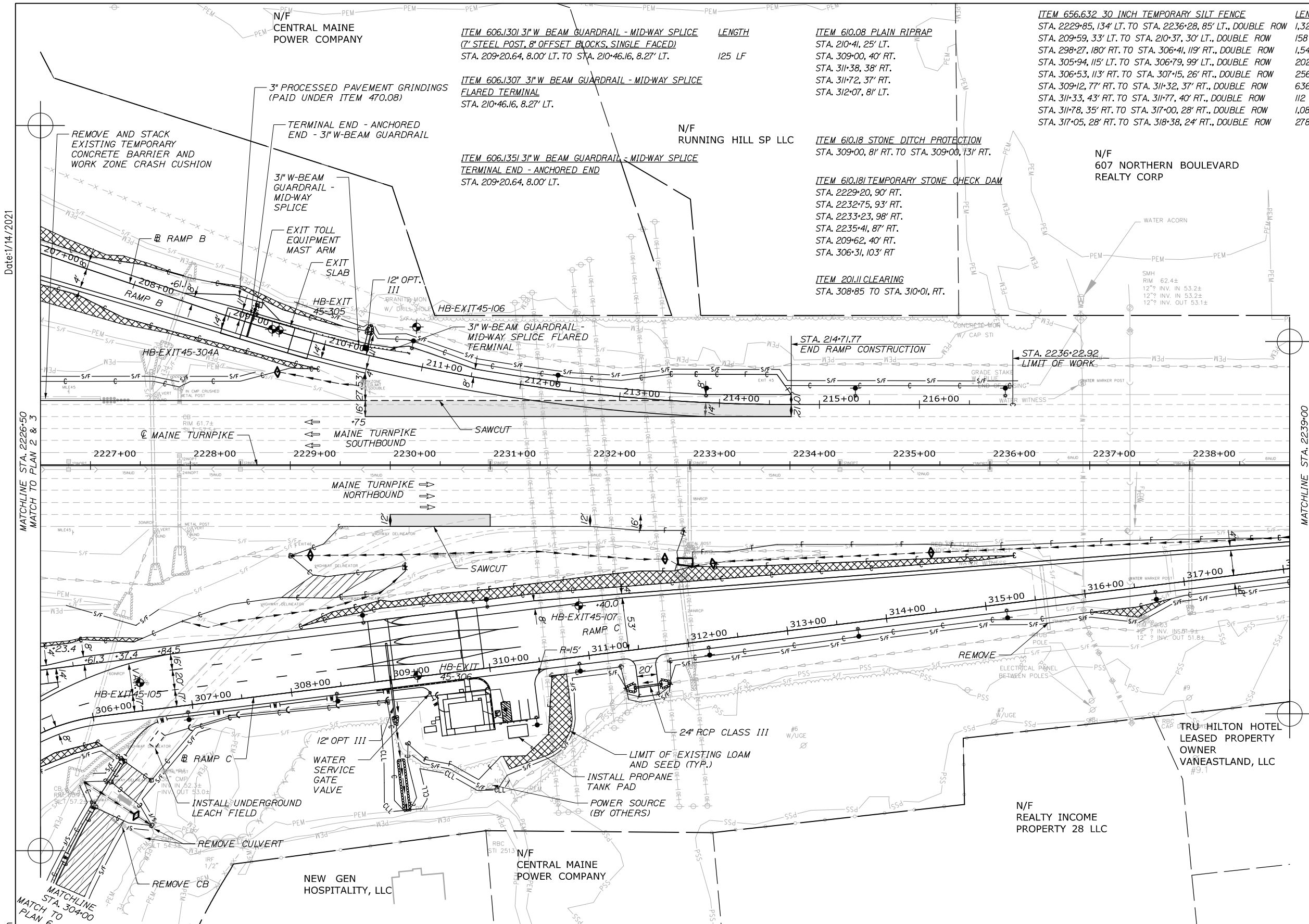
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

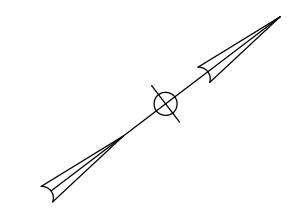
CONTRACT: 2021.07

SHEET NUMBER: PL-03

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ITEM	DESCRIPTION	LENGTH
ITEM 656.632	30 INCH TEMPORARY SILT FENCE	
	STA. 2229+85, 134' LT. TO STA. 2236+28, 85' LT., DOUBLE ROW	1,320 LF
	STA. 209+59, 33' LT. TO STA. 210+37, 30' LT., DOUBLE ROW	158 LF
	STA. 298+27, 180' RT. TO STA. 306+41, 119' RT., DOUBLE ROW	1,542 LF
	STA. 305+94, 115' LT. TO STA. 306+79, 99' LT., DOUBLE ROW	202 LF
	STA. 306+53, 113' RT. TO STA. 307+15, 26' RT., DOUBLE ROW	256 LF
	STA. 309+12, 77' RT. TO STA. 311+32, 37' RT., DOUBLE ROW	636 LF
	STA. 311+33, 43' RT. TO STA. 311+77, 40' RT., DOUBLE ROW	112 LF
	STA. 311+78, 35' RT. TO STA. 317+00, 28' RT., DOUBLE ROW	1,084 LF
	STA. 317+05, 28' RT. TO STA. 318+38, 24' RT., DOUBLE ROW	278 LF

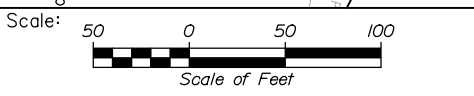


LEGEND

	REMOVE PAVEMENT, GRADE TO DRAIN, LOAM, AND SEED
	MILL AND OVERLAY
	STORMWATER BUFFER
	LOAM AND SEED (BEYOND SLOPE LIMITS)

NOTES:
 1. SEE POWER AND COMMUNICATION PLANS FOR LOCATIONS OF UNDERGROUND CONDUIT.

Date: 1/14/2021
 MATCHLINE STA. 2226+50 MATCH TO PLAN 2 & 3
 MATCHLINE STA. 304+00 MATCH TO PLAN 6
 File name: OXX_HD_Plan_4.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
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 Westbrook, ME 04092
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

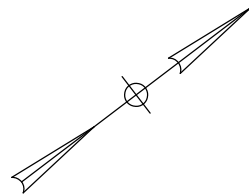
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

HIGHWAY PLANS (4 OF 7)

SHEET NUMBER: PL-04
90 OF 431

CONTRACT: 2021.07

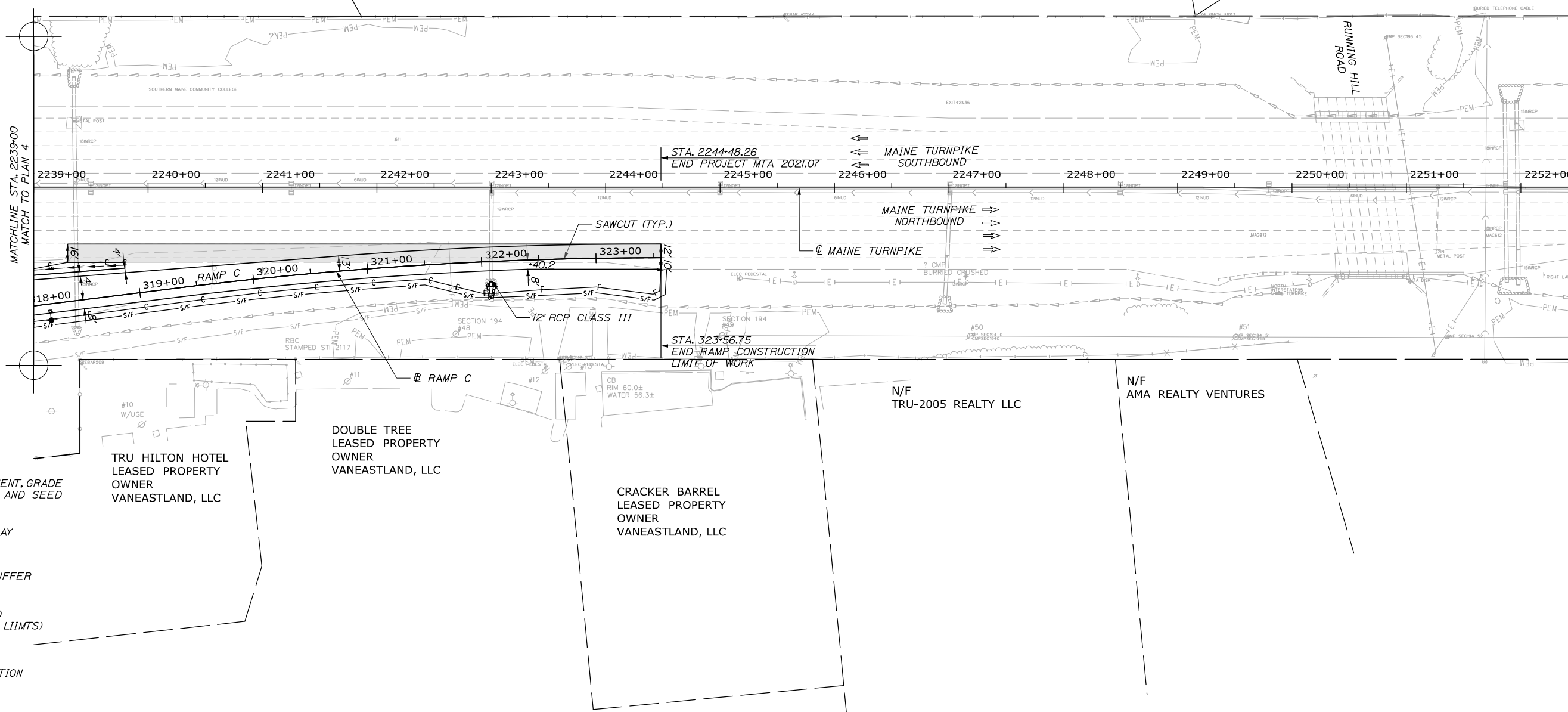


ITEM 610.08 PLAIN RIPRAP
STA. 322+07, 23' RT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE LENGTH
STA. 2243+01, 96' RT. TO STA. 2244+53, 71' RT., DOUBLE ROW 350 LF
STA. 318+45, 25' RT. TO STA. 322+06, 31' RT., DOUBLE ROW 732 LF

N/F
607 NORTHERN BOULEVARD
REALTY CORP

N/F
RLC PORTLAND RETIREMENT
COMMUNITY LLC



LEGEND

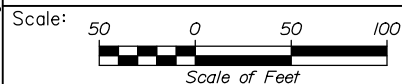
- REMOVE PAVEMENT, GRADE TO DRAIN, LOAM, AND SEED
- MILL AND OVERLAY
- STORMWATER BUFFER
- LOAM AND SEED (BEYOND SLOPE LIMITS)

NOTES:

1. SEE POWER AND COMMUNICATION PLANS FOR LOCATIONS OF UNDERGROUND CONDUIT.

Date: 1/14/2021

Filename: 0XX_HD_Plan_5.dgn



Designed by:



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340 County Road, Suite 6-C
Westbrook, ME 04092
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**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 45
INTERCHANGE RECONFIGURATION
HIGHWAY PLANS (5 OF 7)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	09\20	Checked
			JRH
			09\20
Drawn	AJS	09\20	In Charge of
			RAL
			09\20

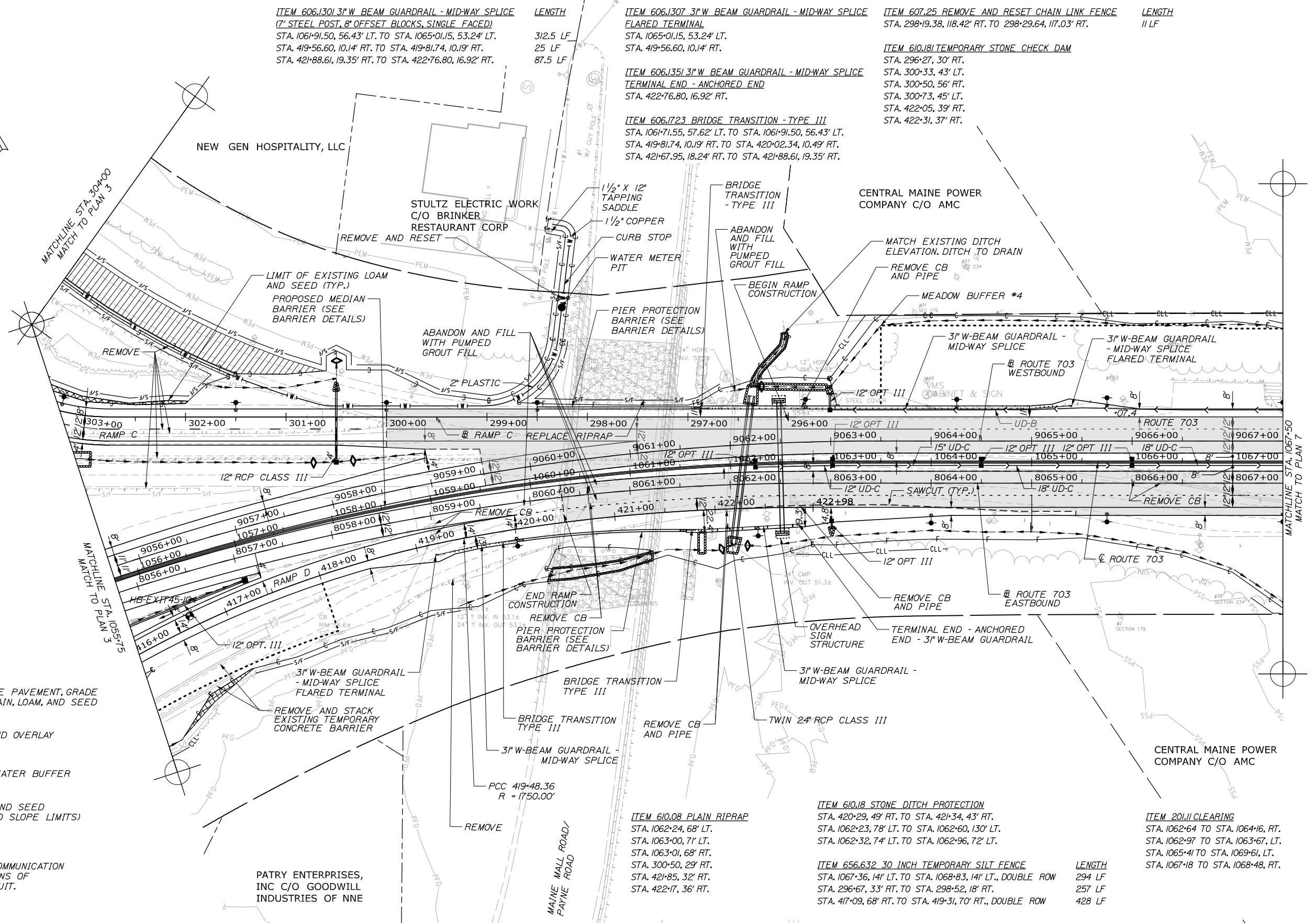
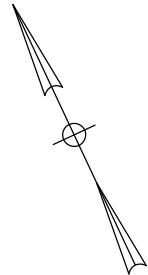
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: PL-05

91 OF 431

Date: 1/14/2021

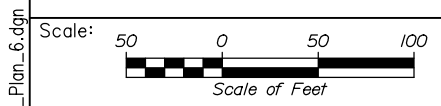


LEGEND

- REMOVE PAVEMENT, GRADE TO DRAIN, LOAM, AND SEED
- MILL AND OVERLAY
- STORMWATER BUFFER
- LOAM AND SEED (BEYOND SLOPE LIMITS)

NOTES:

1. SEE POWER AND COMMUNICATION PLANS FOR LOCATIONS OF UNDERGROUND CONDUIT.



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

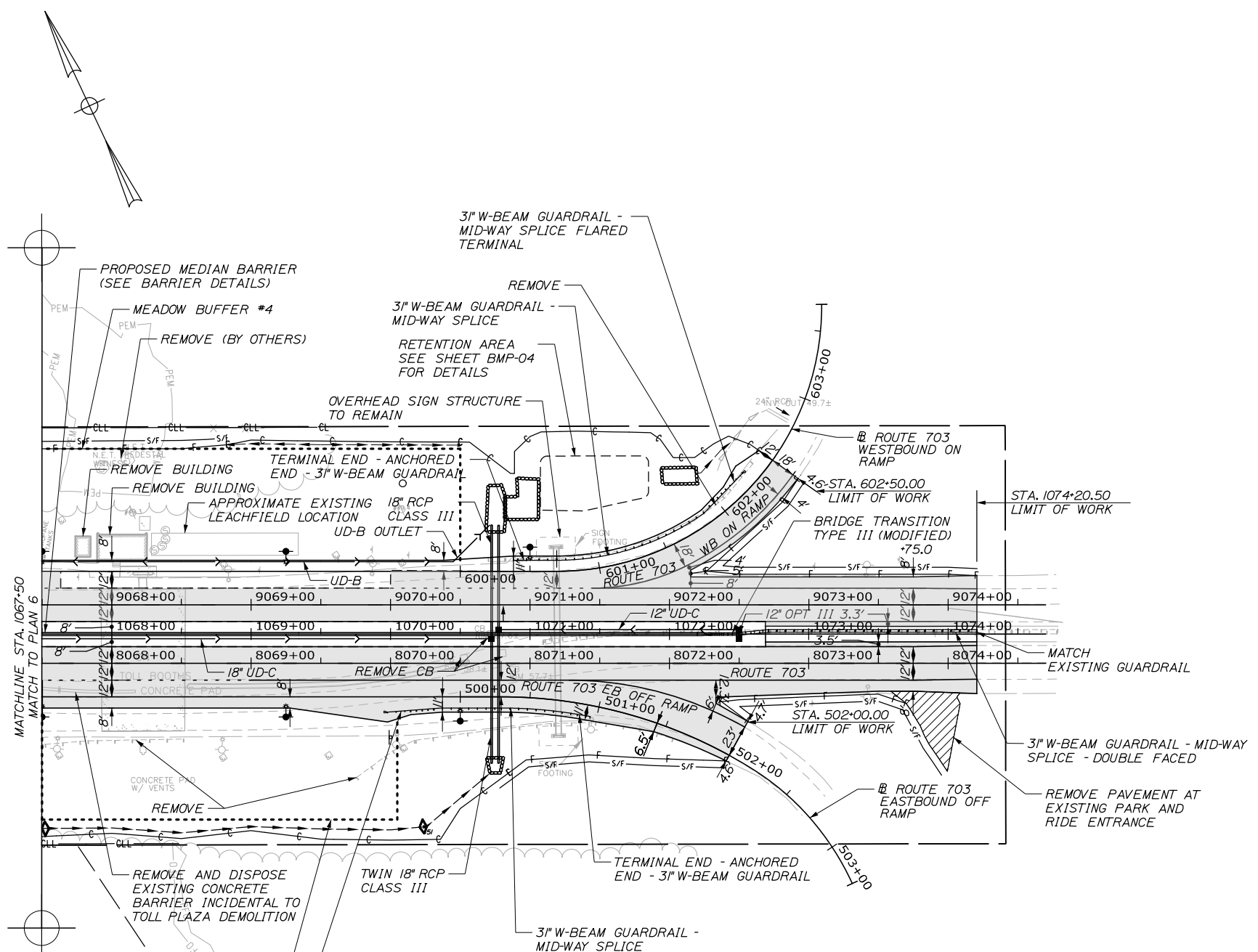
**EXIT 45
INTERCHANGE RECONFIGURATION
HIGHWAY PLANS (6 OF 7)**

CONTRACT: 2021.07

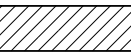


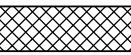
SHEET NUMBER: PL-06

92 OF 431

Date: 1/14/2021

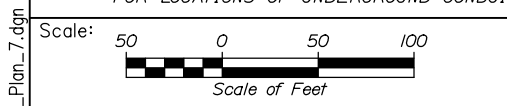


LEGEND

-  REMOVE PAVEMENT, GRADE TO DRAIN, LOAM, AND SEED
-  MILL AND OVERLAY
-  STORMWATER BUFFER
-  LOAM AND SEED (BEYOND SLOPE LIMITS)

NOTES:
 1. SEE POWER AND COMMUNICATION PLANS FOR LOCATIONS OF UNDERGROUND CONDUIT.

<p>ITEM 606.1301 3" W BEAM GUARDRAIL - MID-WAY SPLICE (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)</p> <p>STA. 1070+34.12, 53.24' RT. TO STA. 1070+79.37, 53.00' RT. STA. 1070+79.37, 53.00' RT. TO STA. 1071+33.86, 57.72' RT. STA. 600+47.62, 8.00' LT. TO STA. 600+69.19, 8.00' LT. STA. 600+69.19, 8.00' LT. TO STA. 601+90.17, 8.55' LT.</p>	<p>LENGTH</p> <p>45 LF 55 LF 22 LF 116 LF</p>	<p>ITEM 606.132 3" W BEAM GUARDRAIL - MID-WAY SPLICE (7" STEEL POST, 8" OFFSET BLOCKS, DOUBLE FACED)</p> <p>STA. 1072+48.31, 00.00' LT. TO STA. 1072+71.06, 2.28' LT. STA. 1072+71.06, 2.28' LT. TO STA. 1074+20.50, 2.28' LT.</p>	<p>LENGTH</p> <p>23 LF 149 LF</p>	<p>ITEM 610.181 TEMPORARY STONE CHECK DAM</p> <p>STA. 1067+52, 140' RT. STA. 1070+23, 138' RT.</p>	<p>LENGTH</p> <p>167 LF 266 LF 184 LF</p>
<p>ITEM 606.1307 3" W BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL</p> <p>STA. 1070+34.12, 53.24' RT. STA. 601+90.17, 8.55' LT.</p>		<p>ITEM 606.1724 BRIDGE TRANSITION - TYPE III (MODIFIED)</p> <p>STA. 1072+27.83, 00.00' RT. TO STA. 1072+48.31, 00.00' RT.</p>		<p>ITEM 656.632 30 INCH TEMPORARY SILT FENCE</p> <p>STA. 1070+78, 110' RT. TO STA. 1072+41, 96' RT. STA. 1072+38, 49' LT. TO STA. 1074+21, 47' LT. STA. 1072+50, 52' RT. TO STA. 1073+95, 101' RT.</p>	
		<p>ITEM 610.08 PLAIN RIPRAP</p> <p>STA. 1070+75, 94' RT. STA. 1070+76, 89' LT. STA. 1070+96, 95' LT.</p>		<p>ITEM 606.1351 3" W BEAM GUARDRAIL - MID-WAY SPLICE TERMINAL END - ANCHORED END</p> <p>STA. 1071+33.86, 57.72' RT. STA. 600+47.62, 8.00' LT.</p>	
		<p>ITEM 610.18 STONE DITCH PROTECTION</p> <p>STA. 1071+94, 110' LT. TO STA. 1072+20, 110' LT.</p>			



Designed by:

HNTB

HNTB CORPORATION
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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	AJS 09\20	In Charge of	RAL 09\20

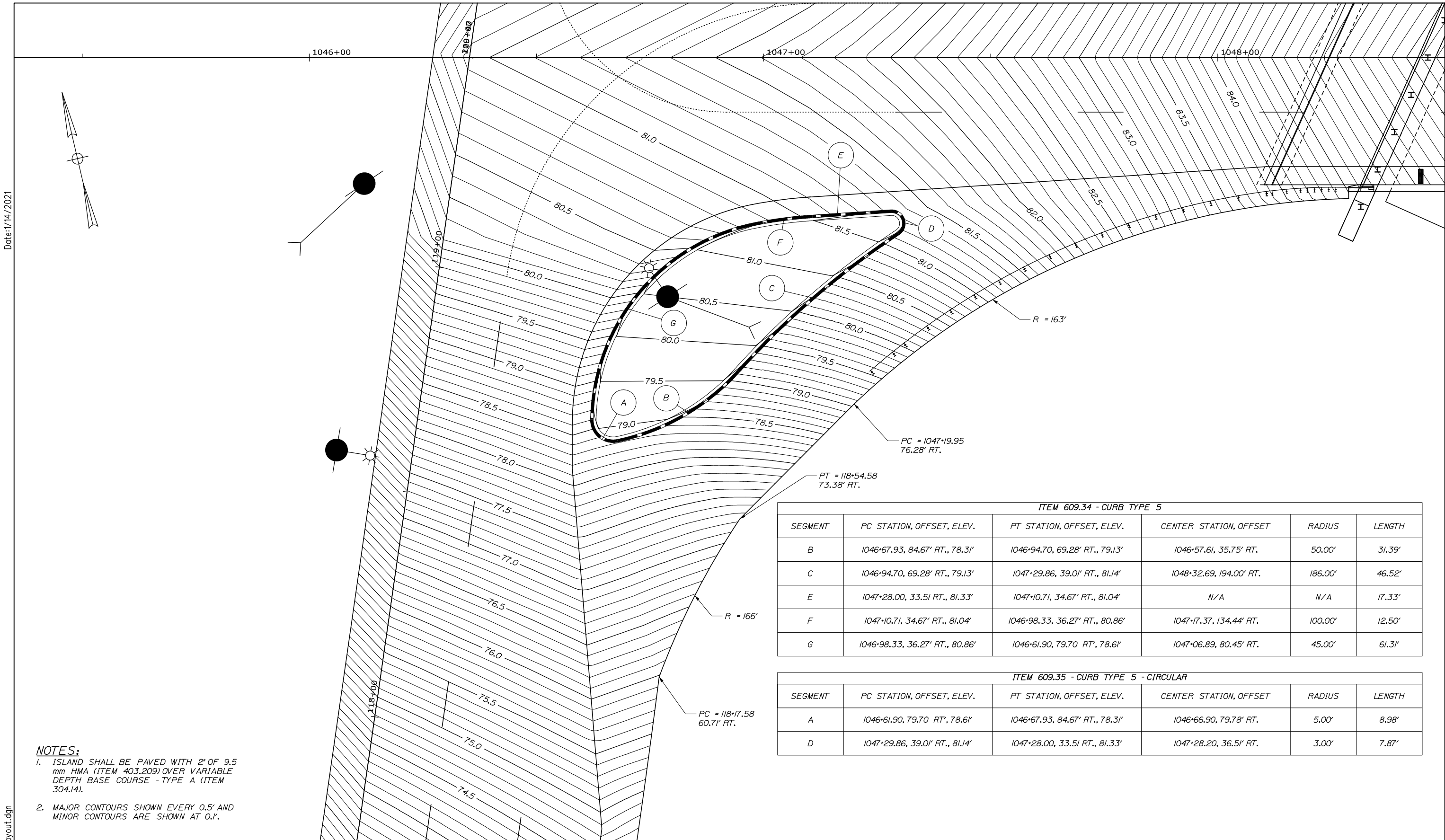


THE GOLD STAR MEMORIAL HIGHWAY

EXIT 45 INTERCHANGE RECONFIGURATION
 HIGHWAY PLANS (7 OF 7)

Filename: 0XX_HD_Plan_7.dgn

Date: 1/14/2021



NOTES:

- ISLAND SHALL BE PAVED WITH 2" OF 9.5 mm HMA (ITEM 403.209) OVER VARIABLE DEPTH BASE COURSE - TYPE A (ITEM 304.14).
- MAJOR CONTOURS SHOWN EVERY 0.5' AND MINOR CONTOURS ARE SHOWN AT 0.1'.

ITEM 609.34 - CURB TYPE 5					
SEGMENT	PC STATION, OFFSET, ELEV.	PT STATION, OFFSET, ELEV.	CENTER STATION, OFFSET	RADIUS	LENGTH
B	1046+67.93, 84.67' RT., 78.31'	1046+94.70, 69.28' RT., 79.13'	1046+57.61, 35.75' RT.	50.00'	31.39'
C	1046+94.70, 69.28' RT., 79.13'	1047+29.86, 39.01' RT., 81.14'	1048+32.69, 194.00' RT.	186.00'	46.52'
E	1047+28.00, 33.51' RT., 81.33'	1047+10.71, 34.67' RT., 81.04'	N/A	N/A	17.33'
F	1047+10.71, 34.67' RT., 81.04'	1046+98.33, 36.27' RT., 80.86'	1047+17.37, 134.44' RT.	100.00'	12.50'
G	1046+98.33, 36.27' RT., 80.86'	1046+61.90, 79.70' RT., 78.61'	1047+06.89, 80.45' RT.	45.00'	61.31'

ITEM 609.35 - CURB TYPE 5 - CIRCULAR					
SEGMENT	PC STATION, OFFSET, ELEV.	PT STATION, OFFSET, ELEV.	CENTER STATION, OFFSET	RADIUS	LENGTH
A	1046+61.90, 79.70' RT., 78.61'	1046+67.93, 84.67' RT., 78.31'	1046+66.90, 79.78' RT.	5.00'	8.98'
D	1047+29.86, 39.01' RT., 81.14'	1047+28.00, 33.51' RT., 81.33'	1047+28.20, 36.51' RT.	3.00'	7.87'

Scale:

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAV	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

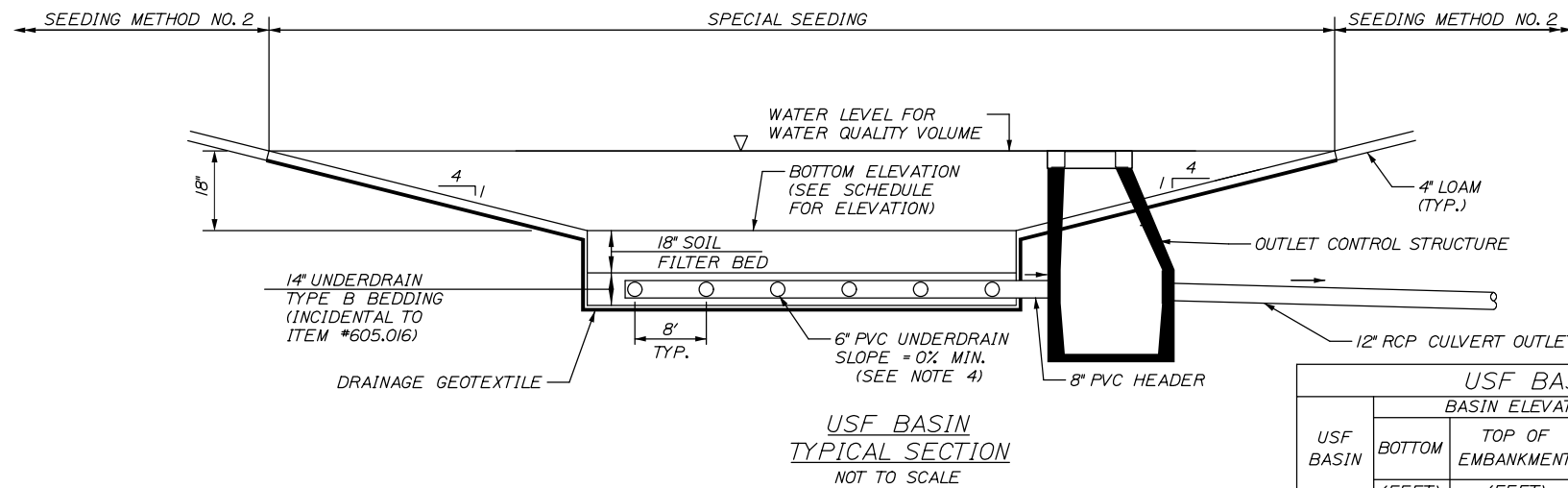
EXIT 45 INTERCHANGE RECONFIGURATION INTERSECTION PLAN

SHEET NUMBER: IP-01

CONTRACT: 2021.07

94 OF 431

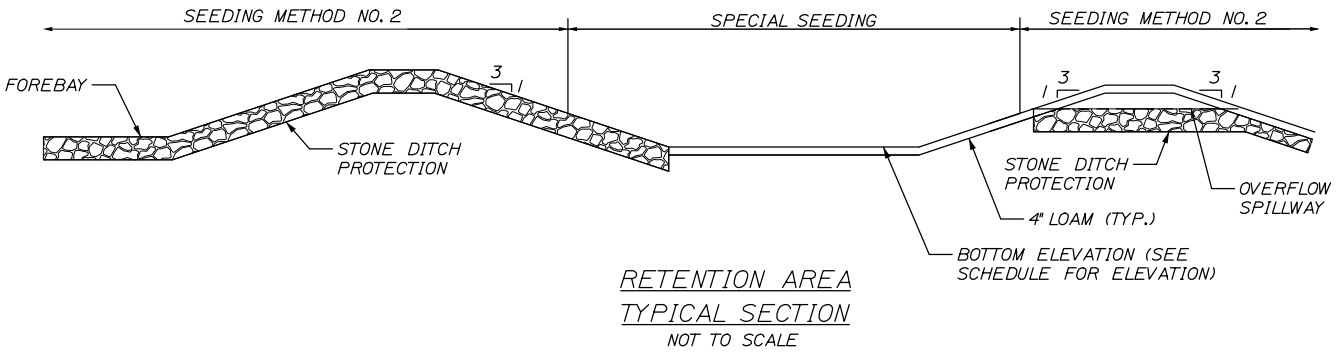
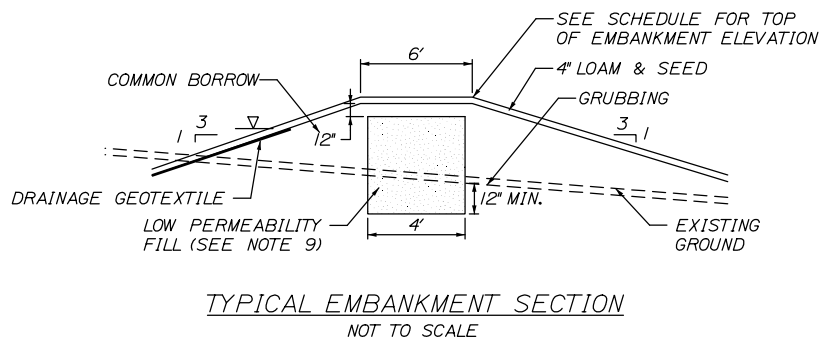
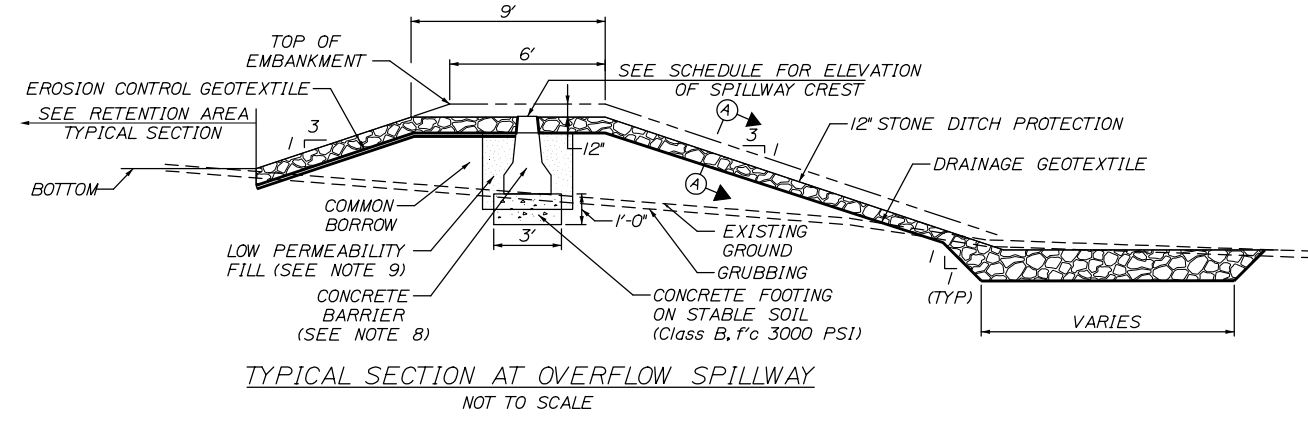
Date: 1/14/2021



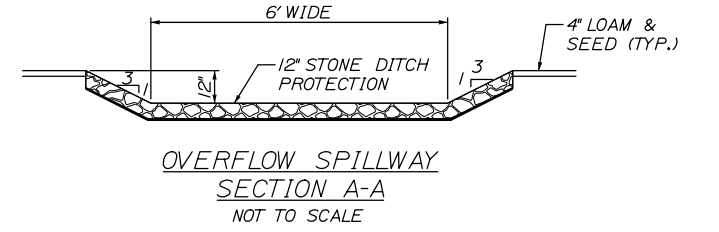
USF BASIN	BASIN ELEVATIONS			PEAK WATER SURFACE ELEVATION		
	BOTTOM	TOP OF EMBANKMENT	BERM SPILLWAY CREST	2-YEAR	10-YEAR	25-YEAR
	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
*1	66.25	73.00	69.00	67.39	67.71	67.82
*2	60.25	67.00	63.19	61.20	61.91	62.07

NOTES:

- FOR LAYOUT OF UNDERDRAINED SOIL FILTER AND PIPE, SEE BMP LAYOUT PLAN.
- 8" PVC UNDERDRAIN HEADER/OUTLET SHALL NOT BE SLOTTED.
- SURFACE OF UNDERDRAINED SOIL FILTER SHALL BE SEEDED WITH WETLAND SEED "NEWENGLAND EROSION CONTROL/RESTORATION MIX" AS SPECIFIED IN THE 618 SPEC. PAYMENT WILL BE MADE UNDER ITEM 618.143 - SPECIAL SEEDING.
- THE UNDERDRAINED SOIL FILTER SHALL BE CONSTRUCTED TO THE LIMITS AND DETAILS SHOWN ON THE PLANS AND SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE RESIDENT.
- THE FILTER BED MATERIAL SHALL NOT BE PLACED IN UNDERDRAINED SOIL FILTER BASINS UNTIL THE TRIBUTARY DRAINAGE AREA IS PERMANENTLY STABILIZED AGAINST EROSION.
- EROSION CONTROL BLANKETS SHALL BE PROVIDED ON ALL UNDERDRAINED SOIL FILTER BASIN EMBANKMENT SLOPES, BOTH INTERIOR AND EXTERIOR AND THE SURFACE OF THE SOIL FILTER.
- OUTLET STRUCTURES FOR UNDERDRAINED SOIL FILTERS SHALL UTILIZE A BEEHIVE GRATE. FRAME SHALL BE BOLTED TO TOP OF CATCH BASIN USING 1/2" DIAMETER STAINLESS STEEL EXPANSION ANCHOR BOLTS EMBEDDED 3" ON QUARTER POINTS OF THE FRAME FLANGE. ANCHOR BOLTS SHALL BE INCIDENTAL TO THE CATCH BASIN.
- SET TOP OF CONCRETE BARRIER LEVEL AT THE DESIGNATED ELEVATION OF SPILLWAY CREST. PAYMENT FOR BARRIER AND CONCRETE FOOTING SHALL BE MADE UNDER ITEM 526.307 CONCRETE BARRIER TYPE 1 - STORMWATER FILTER.
- AT OVERFLOW SPILLWAY, IMPERMEABLE SOIL (EMBANKMENT CORE) SHALL TIE INTO CONCRETE BARRIER AND EXTEND 3 FEET ALONG EACH END OF CONCRETE BARRIER.



BOTTOM	BASIN ELEVATIONS			PEAK WATER SURFACE ELEVATION		
	TOP OF EMBANKMENT	BERM SPILLWAY CREST		2-YEAR	10-YEAR	25-YEAR
	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)
47.50	53.00	50.75	51.01	51.35	51.48	



Filename: 00X_BMP_Details.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

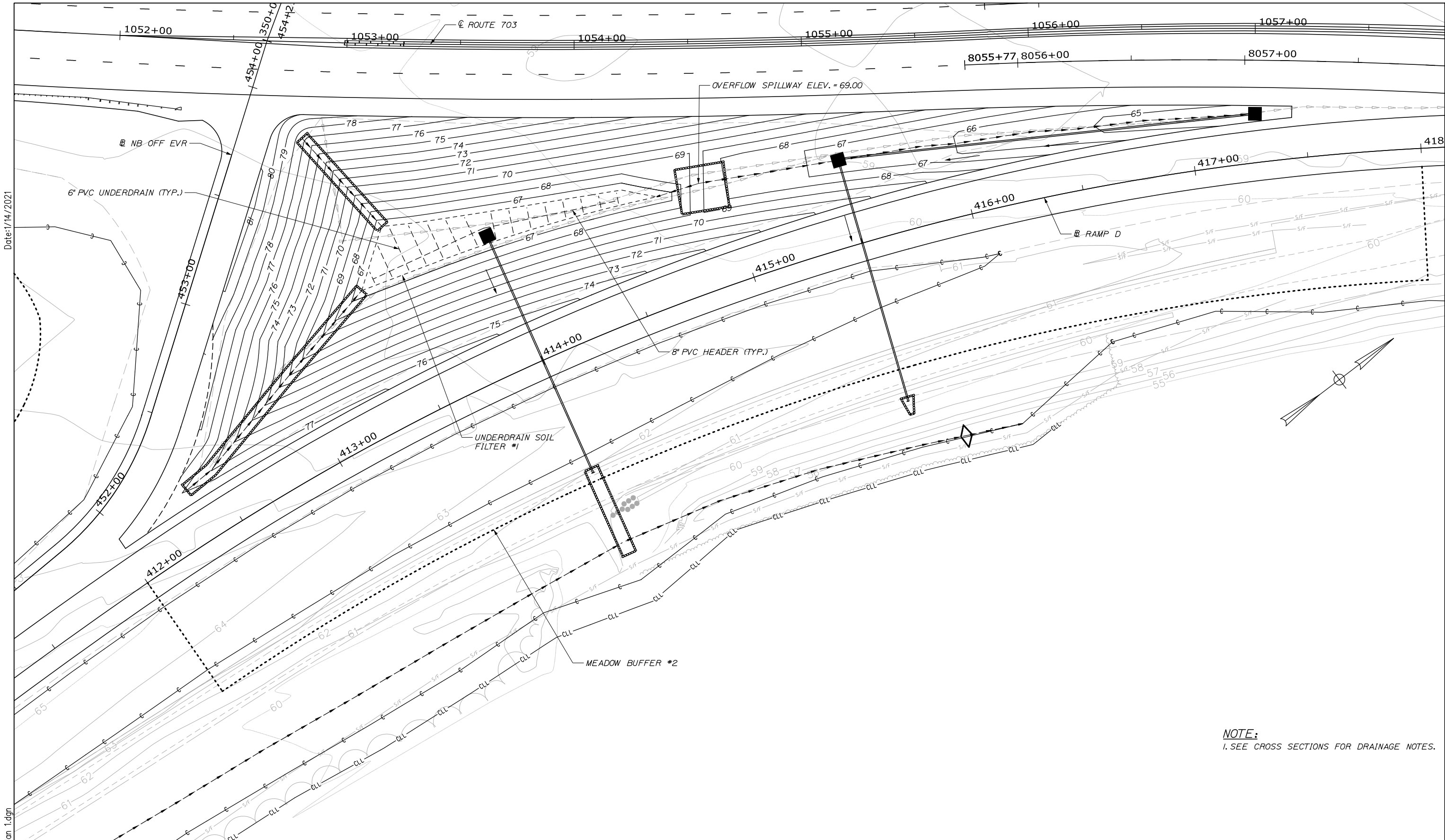
EXIT 45 INTERCHANGE RECONFIGURATION

BMP DETAILS

SHEET NUMBER: BMP-01

CONTRACT: 2021.07

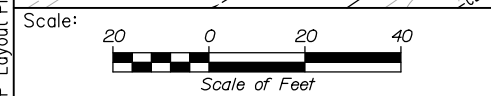
95 OF 431



NOTE:
1. SEE CROSS SECTIONS FOR DRAINAGE NOTES.

Date: 1/14/2021

Filename: 0XX_BMP_Layout Plan 1.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

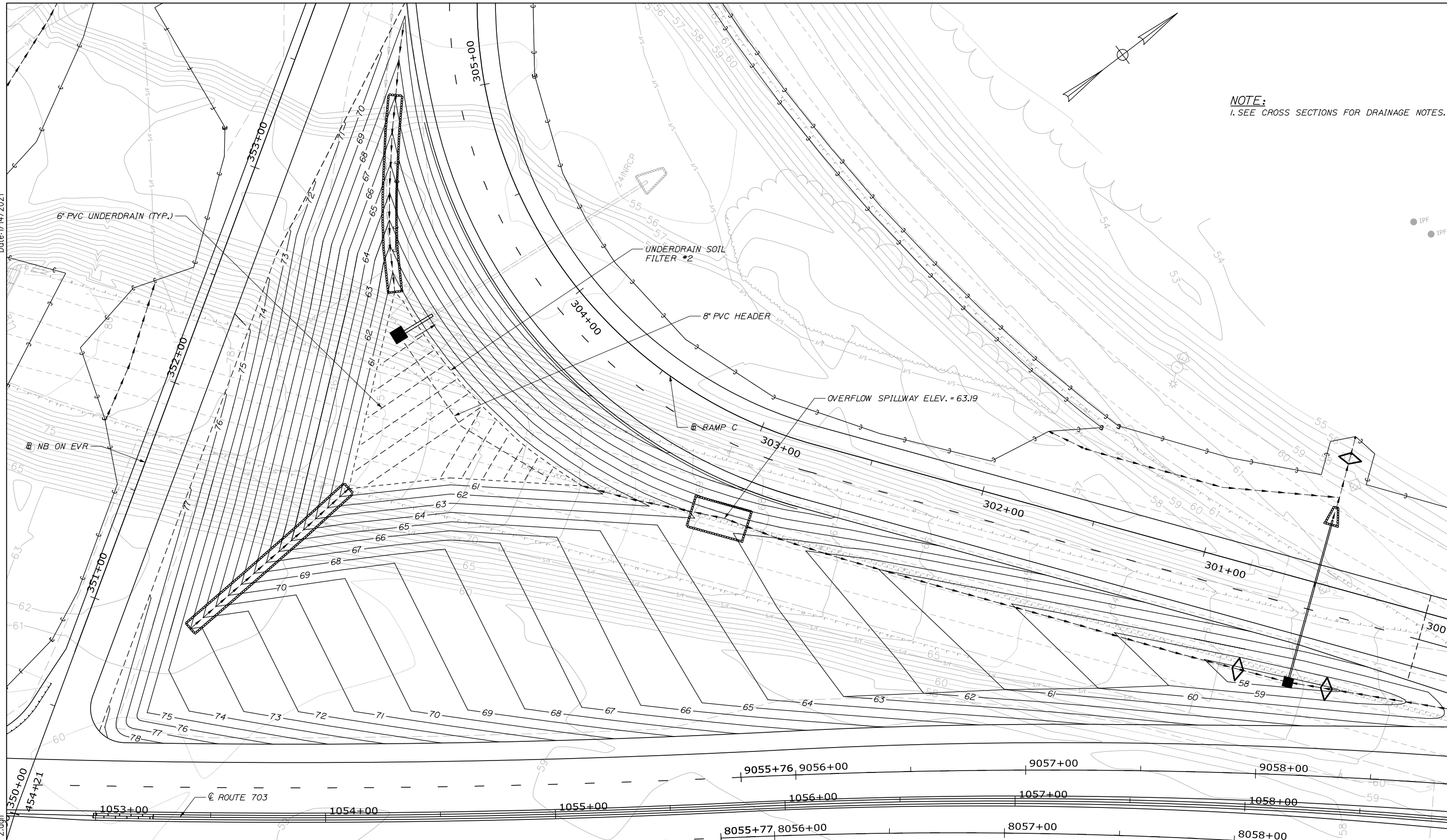
EXIT 45
INTERCHANGE RECONFIGURATION
BMP LAYOUT PLAN
USF #1

SHEET NUMBER: BMP-02
96 OF 431

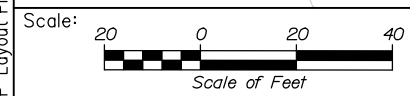
CONTRACT: 2021.07

Date: 1/14/2021

NOTE:
1. SEE CROSS SECTIONS FOR DRAINAGE NOTES.



Filename: 0XX_BMP_Layout Plan 2.dgn



No.	Revision	By	Date

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	By	Date	By	Date	
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION**

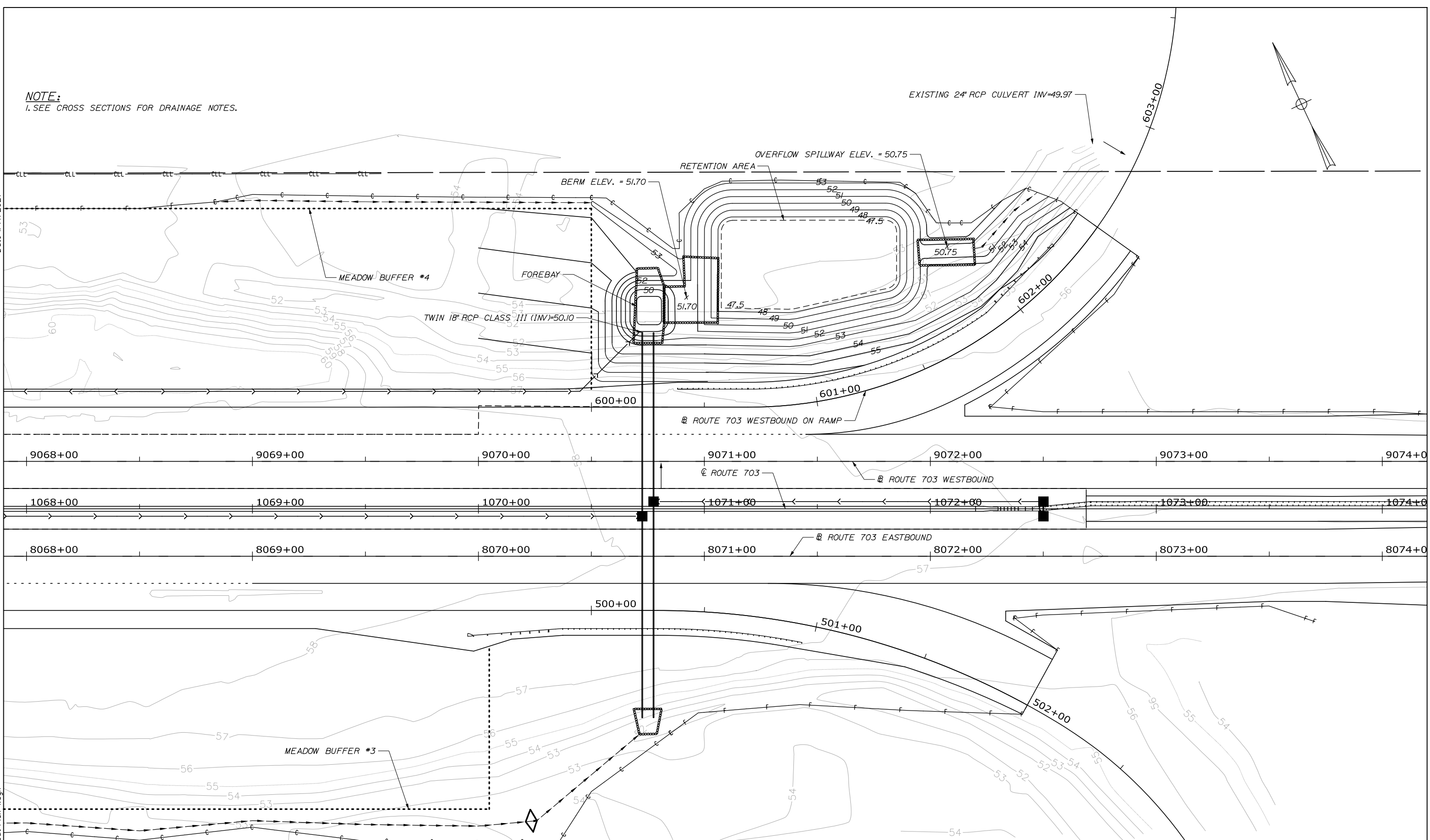
BMP LAYOUT PLAN
USF #2

SHEET NUMBER: BMP-03
97 OF 431

CONTRACT: 2021.07

NOTE:
1. SEE CROSS SECTIONS FOR DRAINAGE NOTES.

Date: 1/14/2021



Filename: OXX_Wet Pond Layout Plan 1.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	BPP	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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THE GOLD STAR MEMORIAL HIGHWAY

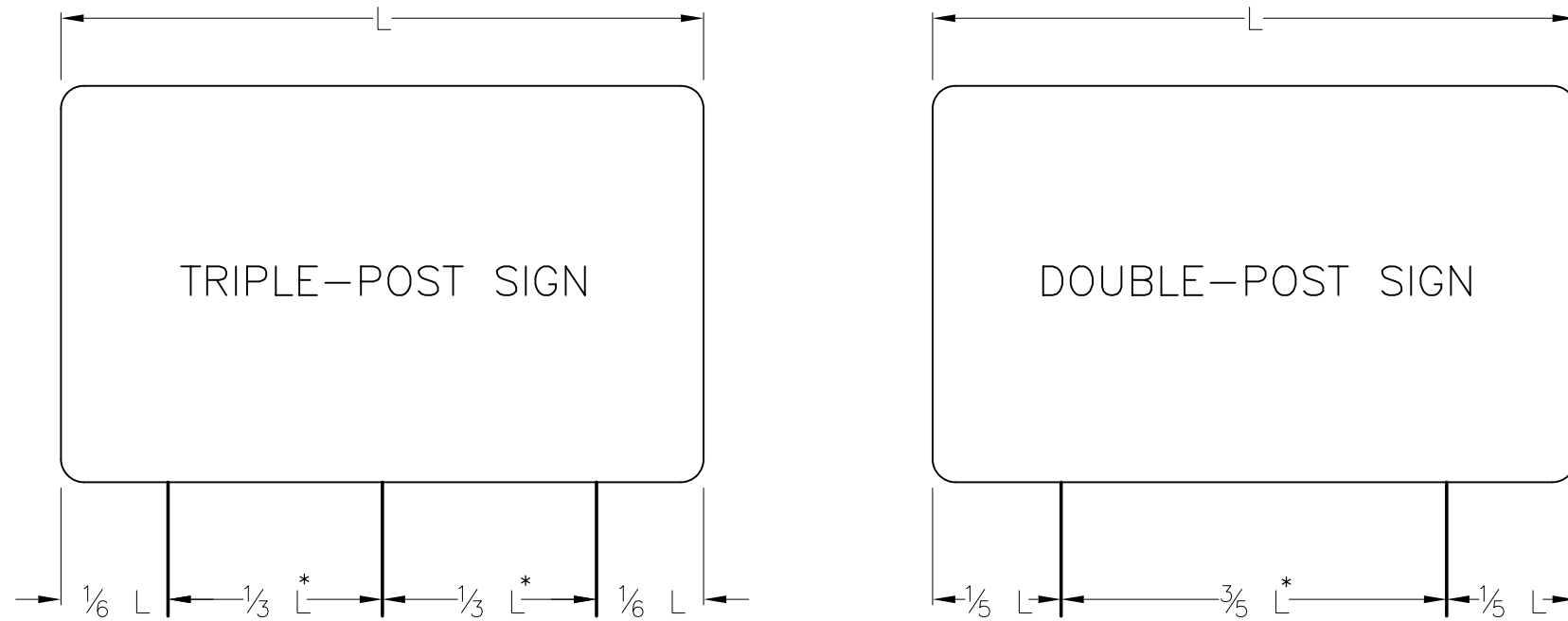
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
RETENTION AREA LAYOUT PLAN

SHEET NUMBER: BMP-04
98 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



POLE SPACING DETAIL
N.T.S.

* - OR USE A MINIMUM OF 7 FEET WHEN INSTALLED ON BREAKAWAY DEVICES IF DISTANCE BETWEEN POSTS IS LESS THEN 7 FEET. THE OVERHANG SHALL BE ADJUSTED ACCORDINGLY.

GENERAL NOTES

- BOLTS TO BE 50,000 PSI MINIMUM YIELD STRENGTH.
- POST TO BASE PLATE WELD SHALL BE 5/16" FILLET WELD.
- BASE PLATES AND H-BEAMS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 720.06.
- SIGN POSTS FOR THE SAME SIGN SHALL NOT BE INSTALLED ON BOTH SIDES OF A DITCH UNLESS DIRECTED BY THE RESIDENT.
- REGULATORY, WARNING, AND ROUTE MARKER ASSEMBLY SIGNS OF 16 SF OR LESS AND NOT ON THE MAINE TURNPIKE MAINLINE SHALL USE A 6" X 6" WOOD POST. WOOD POSTS SHALL BE INCIDENTAL TO THE SIGN ITEM.
- REGULATORY, WARNING, AND ROUTE MARKER ASSEMBLY SIGNS OVER 60" IN WIDTH SHALL BE FABRICATED AND PAID FOR UNDER 645.251 - ROADSIDE GUIDE SIGN, TYPE 1 AS INDICATED IN THE SIGN SUMMARY TABLES.
- THE RESIDENT SHALL APPROVE THE REMOVAL OF EXISTING SIGNS PRIOR TO REMOVAL TO VERIFY IF THEY ARE NEEDED FOR MOT.
- EXISTING WRONG WAY AND DO NOT ENTER SIGNS SHALL BE REMOVED ONLY WHEN ACCESS IS BLOCKED TO THAT ROADWAY.
- EXISTING SIGNS TO BE REMOVED SHALL BE STACKED ON SITE FOR USE DURING CONSTRUCTION IF APPLICABLE.
- ALL SIGNS SHALL BE MANUFACTURED WITH DIRECT APPLIED OR DIGITALLY PRINTED LETTER, NUMERALS, SYMBOLS, AND BORDERS. SEE SPECIAL PROVISION 719. SCREEN PRINTED SIGNS WILL NOT BE PERMITTED.

BREAKAWAY NOTES

- ON BREAKAWAY SUPPORTS, THE HINGE SHOULD BE A MINIMUM OF 7 FEET ABOVE THE FOUNDATION. NO PERMANENT SUPPLEMENTARY SIGNS SHALL BE ATTACHED BELOW THE HINGE.



REMOVE AND RESET & PROPOSED GUIDE SIGN NOTES

- THE CONTRACTOR MAY REUSE EXISTING POLES AT ANY SIGN LOCATION WHERE FEASIBLE.
- PROPOSED POLE LENGTHS ARE MEASURED FROM THE TOP OF THE FOUNDATION TO THE TOP OF SIGN AND ARE APPROXIMATE. FINAL POST LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR ONCE FOUNDATIONS ARE PLACED. SEE REMOVE AND RESET SIGN SUMMARY.
- EXISTING SIGN SIZES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR AGAINST THE LISTED POST SIZING.

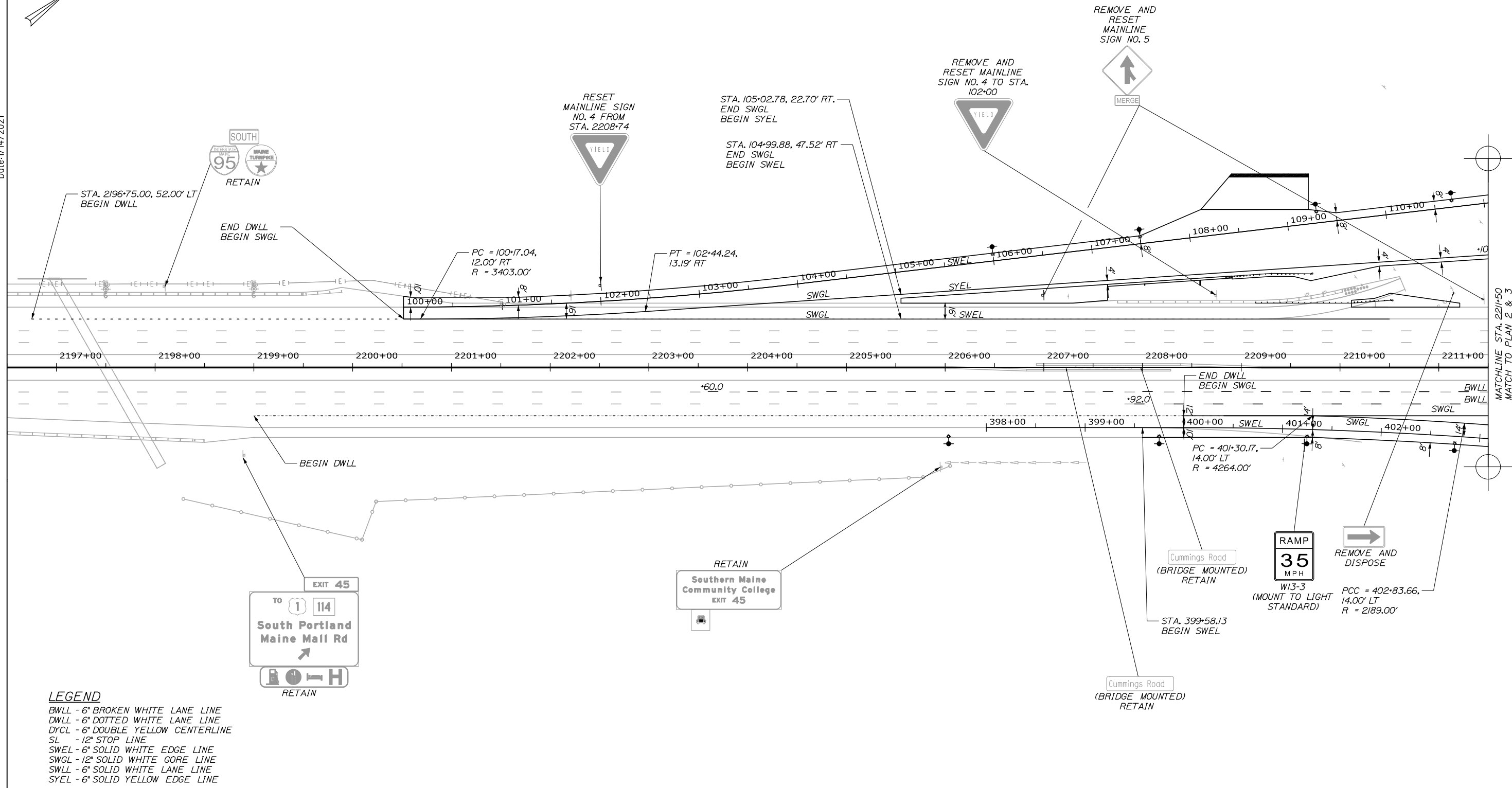
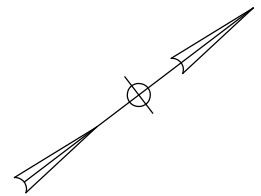
SINGLE SUPPORT SIGNS									
FOUNDATION DIAMETER	FOUNDATION DEPTH	SIGN AREA (A)	SIGN WIDTH (W)	POST SIZE	BASE PLATE (2) (3)	MATERIAL	ANCHOR BOLTS (1)	BOLT CIRCLE	MAXIMUM MOUNTING HEIGHT
		$A < 4 \text{ FT}^2$		U CHANNEL POST					
		$4 < A \leq 10 \text{ FT}^2$		WOOD POST 6"X6"					
18"	6'	$10 < A \leq 16 \text{ FT}^2$	W=4'-0" MAX. BUT INCLUDES 5'-0" YIELD SIGN	W6X9 (SEE NOTE 5)	12"X12"X1" 41 LBS.	A36	1" ϕ X 3'-0"	12"	12 FEET TO SIGN CENTER
18" (24")	6'	$16 < A \leq 25 \text{ FT}^2$	W=5'-0" MAX	W6X15 (WITH BREAKAWAY)	12"X12"X1" 41 LBS.	A36	1" ϕ X 3'-0"	12"	
24"	7'	$25 < A \leq 42 \text{ FT}^2$	W=7'-0" MAX	W8X24	14"X14"X1" 55 LBS.	A36	1-1/4" ϕ X 3'-6"	14"	

MULTIPLE SUPPORT SIGNS									
FOUNDATION DIAMETER	FOUNDATION DEPTH	SIGN AREA (A)	SIGN WIDTH (W)	POST SIZE	BASE PLATE (2) (3)	MATERIAL	ANCHOR BOLTS (1)	BOLT CIRCLE	MAXIMUM MOUNTING HEIGHT
24"	7'	TO 60 FT ² /POST		W8X18	14"X14"X1" 55 LBS.	A36	1-1/4" ϕ X 3'-6"	14"	20 FEET TO SIGN CENTER
24" (30")	7'	60-85 FT ² /POST		W10X22 (WITH BREAKAWAY)	12"X17"X1-1/4" 72 LBS.	A36	1-1/4" ϕ X 3'-6"	15"	
30" (36")	11"	85-110 FT ² /POST		W12X26 (WITH BREAKAWAY)	13"X19"X1-1/4" 87 LBS.	A36	1-1/2" ϕ X 4'-0"	17"	
30" (36")	11"	110-135 FT ² /POST		W14X30 (WITH BREAKAWAY)	14"X21"X1-1/4" 104 LBS.	A36	1-1/2" ϕ X 4'-0"	19"	

Filename: 0XX_Sign_Detail.dgn

Scale: NOT TO SCALE	Designed by: HNTB	HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		THE GOLD STAR MEMORIAL HIGHWAY	EXIT 45 INTERCHANGE RECONFIGURATION SIGN DETAILS AND NOTES																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	Revision	By	Date													<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.</th> </tr> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>PEM</td> <td>09\20</td> <td>Checked</td> </tr> <tr> <td>Drawn</td> <td>PEM</td> <td>09\20</td> <td>In Charge of</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					By	Date		Designed	PEM	09\20	Checked	Drawn	PEM	09\20	In Charge of									<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> </tr> </thead> <tbody> <tr> <td> </td> <td>JRH</td> <td>09\20</td> <td> </td> </tr> <tr> <td> </td> <td>RAL</td> <td>09\20</td> <td> </td> </tr> </tbody> </table>		By	Date			JRH	09\20			RAL	09\20			THE GOLD STAR MEMORIAL HIGHWAY	EXIT 45 INTERCHANGE RECONFIGURATION SIGN DETAILS AND NOTES
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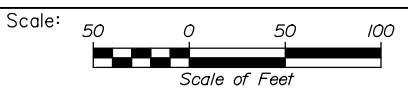
Date: 1/14/2021



LEGEND

- BWLL - 6" BROKEN WHITE LANE LINE
- DWLL - 6" DOTTED WHITE LANE LINE
- DYCL - 6" DOUBLE YELLOW CENTERLINE
- SL - 12" STOP LINE
- SWEL - 6" SOLID WHITE EDGE LINE
- SWGL - 12" SOLID WHITE GORE LINE
- SWLL - 6" SOLID WHITE LANE LINE
- SYEL - 6" SOLID YELLOW EDGE LINE

Filename: 0XX_SPM_Plan_1.dgn



Designed by:


HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	PEM	09\20	Checked	JRH	09\20
Drawn	PEM	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

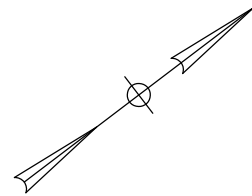
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
SIGNING & PAVEMENT MARKING
PLANS (1 OF 7)**

SHEET NUMBER: SPM-01
100 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

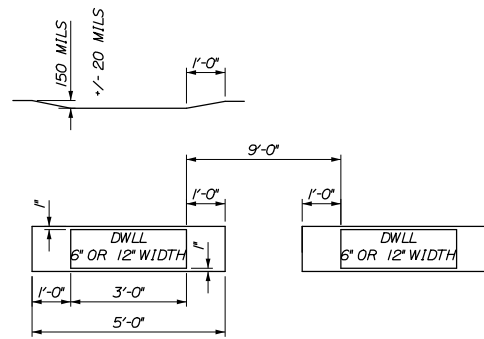


LEGEND

- BWLL - 6" BROKEN WHITE LANE LINE
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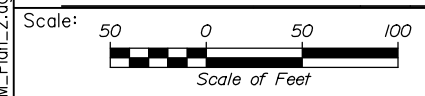
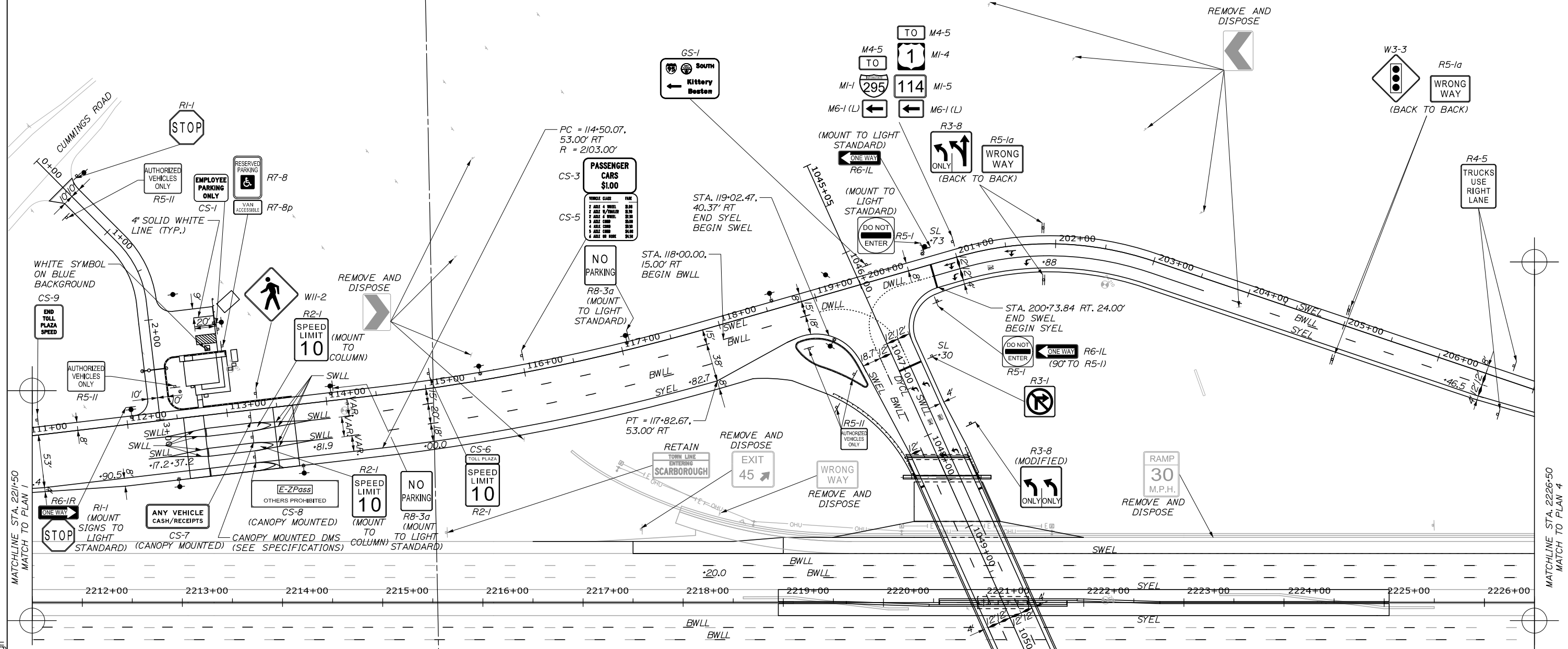
NOTES

1. ALL WORD, SYMBOL AND STOP BAR PAVEMENT MARKINGS SHALL BE RECESSED TAPE.
2. ALL MAINLINE PAVEMENT MARKINGS SHALL BE PAINTED.



DWLL PERMANENT PAVEMENT MARKINGS WITH TAPE
GROOVING DETAIL
NTS

TOWN LINE: SOUTH PORTLAND
TOWN LINE: SCARBOROUGH



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION
SIGNING & PAVEMENT MARKING
PLANS (2 OF 7)**

Filename: 0XX_SPM_Plan_2.dgn

No.	Revision	By	Date

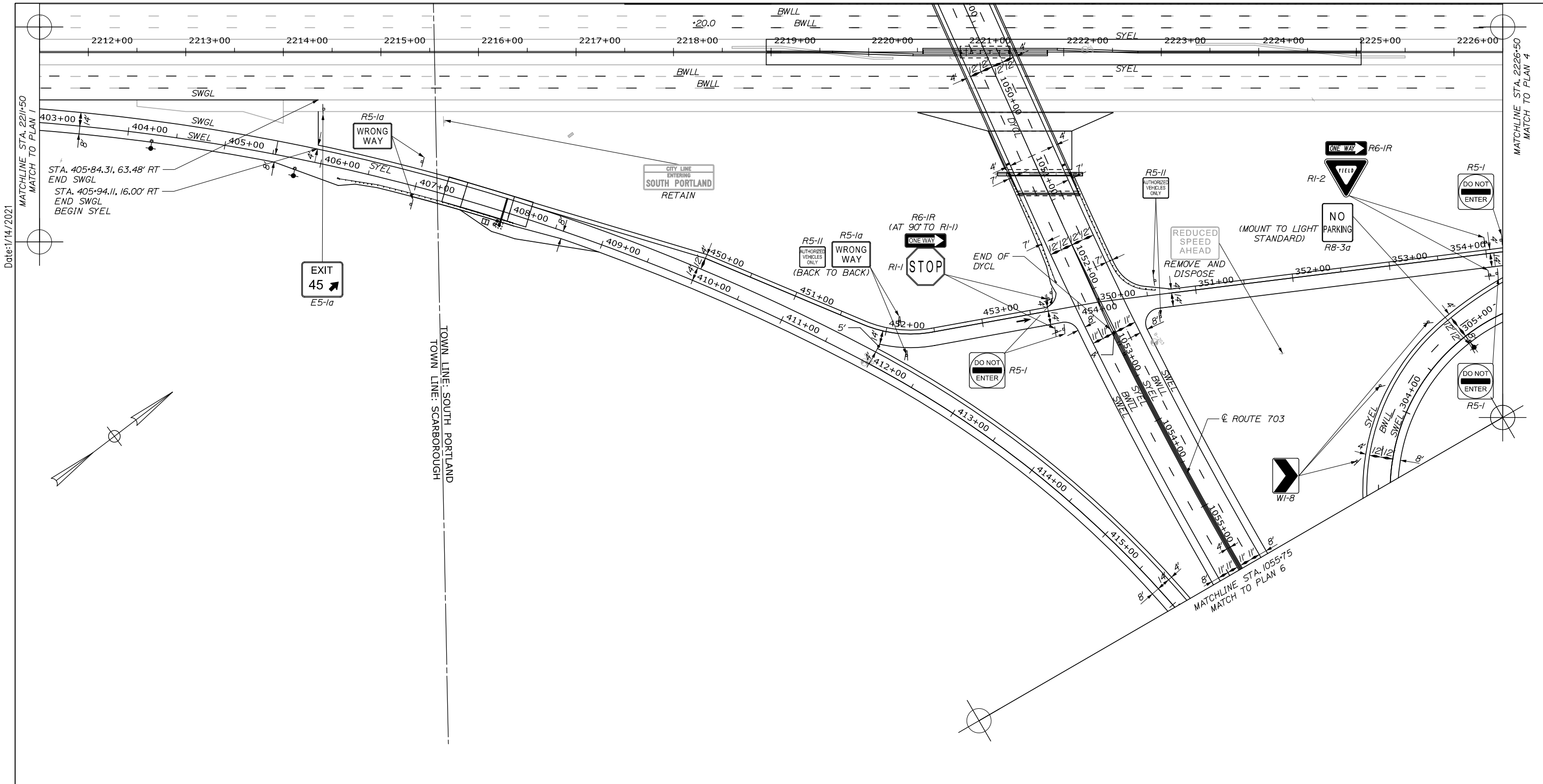
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	PEM	09\20	JRH
Drawn	By	Date	In Charge of
	PEM	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: SPM-02

101 OF 431



Date: 1/14/2021
 MATCHLINE STA. 2211+50
 MATCH TO PLAN 1

MATCHLINE STA. 2226+50
 MATCH TO PLAN 4

STA. 405+84.31, 63.48' RT
 END SWGL
 STA. 405+94.11, 16.00' RT
 END SWGL
 BEGIN SYEL

CITY LINE
 ENTERING
 SOUTH PORTLAND
 RETAIN

REDUCED SPEED AHEAD
 REMOVE AND DISPOSE
 (MOUNT TO LIGHT STANDARD)

MATCHLINE STA. 1055+75
 MATCH TO PLAN 6

- LEGEND**
- BWLL - 6" BROKEN WHITE LANE LINE
 - DWLL - 6" DOTTED WHITE LANE LINE
 - DYCL - 6" DOUBLE YELLOW CENTERLINE
 - SL - 12" STOP LINE
 - SWEL - 6" SOLID WHITE EDGE LINE
 - SWGL - 12" SOLID WHITE GORE LINE
 - SWLL - 6" SOLID WHITE LANE LINE
 - SYEL - 6" SOLID YELLOW EDGE LINE

Scale: 0 50 100
 Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
SIGNING & PAVEMENT MARKING PLANS (3 OF 7)

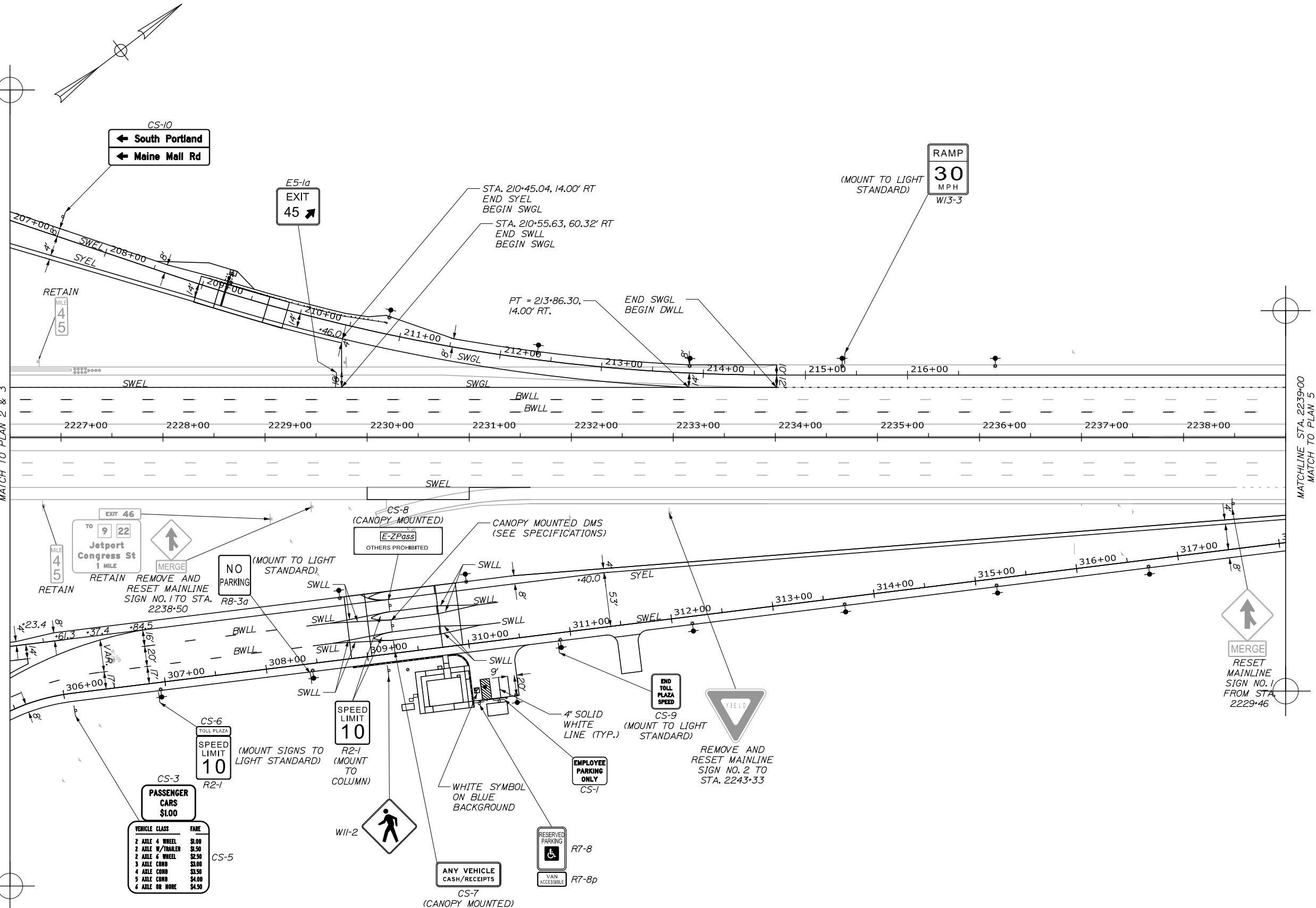
SHEET NUMBER: SPM-03
 102 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

MATCHLINE STA. 2226+50
MATCH TO PLAN 2 & 3

MATCHLINE STA. 2239+00
MATCH TO PLAN 5



LEGEND
 BWLL - 6" BROKEN WHITE LANE LINE
 DWLL - 6" DOTTED WHITE LANE LINE
 DYCL - 6" DOUBLE YELLOW CENTERLINE
 SL - 12" STOP LINE
 SWEL - 6" SOLID WHITE EDGE LINE
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 SWLL - 6" SOLID WHITE LANE LINE
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Scale: 0 50 100
Scale of Feet

No.	Revision	By	Date

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	By	Date		By	Date
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

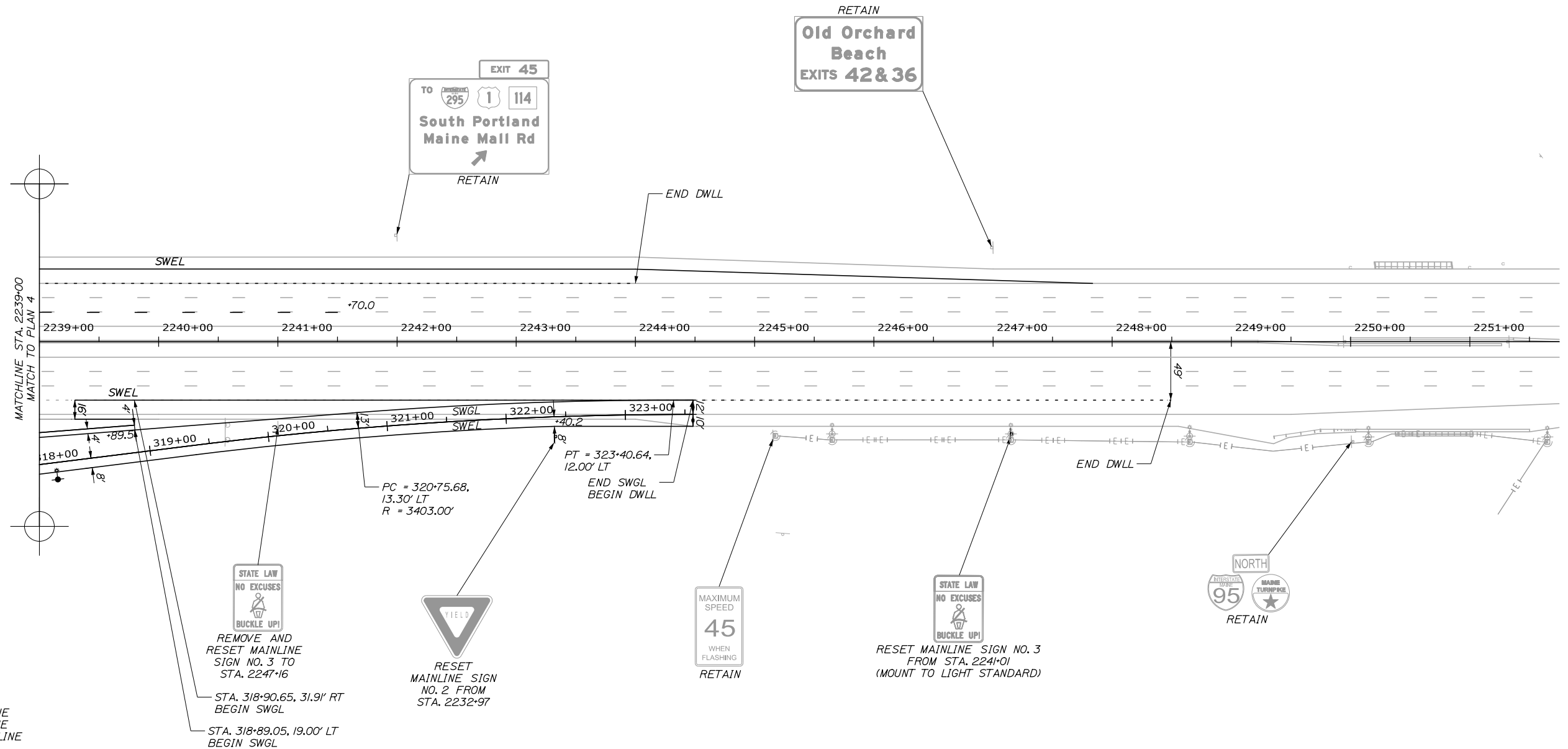
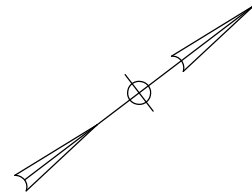
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
SIGNING & PAVEMENT MARKING
PLANS (4 OF 7)

SHEET NUMBER: SPM-04
 103 OF 431

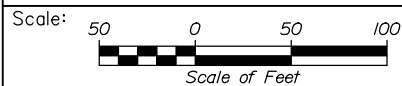
CONTRACT: 2021.07

Date: 1/14/2021



LEGEND

- BWLL - 6" BROKEN WHITE LANE LINE
- DWLL - 6" DOTTED WHITE LANE LINE
- DYCL - 6" DOUBLE YELLOW CENTERLINE
- SL - 12" STOP LINE
- SWEL - 6" SOLID WHITE EDGE LINE
- SWGL - 12" SOLID WHITE GORE LINE
- SWLL - 6" SOLID WHITE LANE LINE
- SYEL - 6" SOLID YELLOW EDGE LINE



Designed by:



HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

**EXIT 45
 INTERCHANGE RECONFIGURATION
 SIGNING & PAVEMENT MARKING
 PLANS (5 OF 7)**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	PEM	09\20	Checked
			JRH
			09\20
Drawn	PEM	09\20	In Charge of
			RAL
			09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

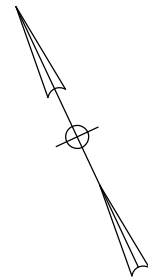
CONTRACT: 2021.07

SHEET NUMBER: SPM-05

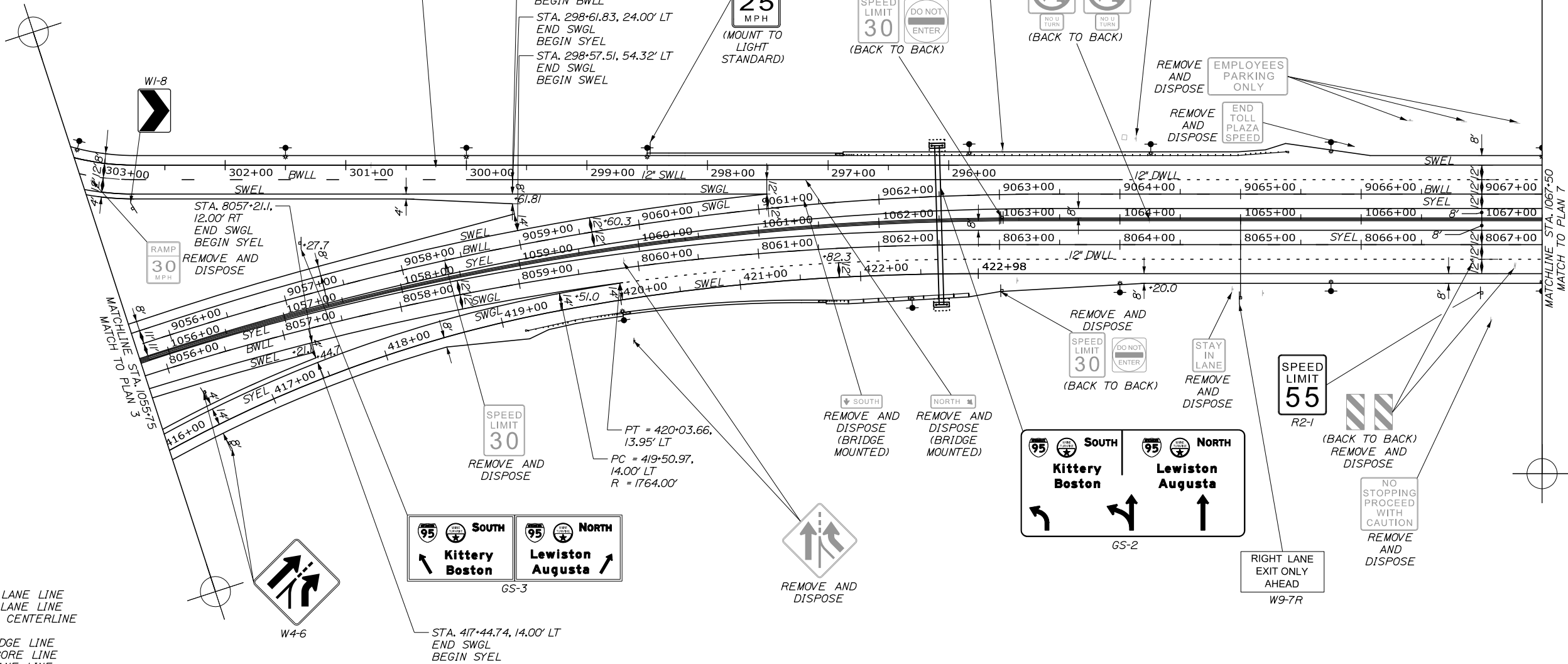
104 OF 431

Filename: 0XX_SPM_Plan_5.dgn

Date: 1/14/2021

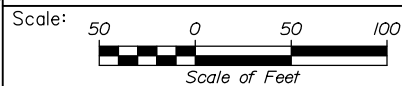


REMOVE AND DISPOSE



LEGEND

- BWLL - 6' BROKEN WHITE LANE LINE
- DWLL - 6' DOTTED WHITE LANE LINE
- DYCL - 6' DOUBLE YELLOW CENTERLINE
- SL - 12' STOP LINE
- SWEL - 6' SOLID WHITE EDGE LINE
- SWGL - 12' SOLID WHITE GORE LINE
- SWLL - 6' SOLID WHITE LANE LINE
- SYEL - 6' SOLID YELLOW EDGE LINE



Designed by:



HNTB CORPORATION
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

**EXIT 45
 INTERCHANGE RECONFIGURATION
 SIGNING & PAVEMENT MARKING
 PLANS (6 OF 7)**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	PEM	09\20	Checked	JRH	09\20
Drawn	PEM	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

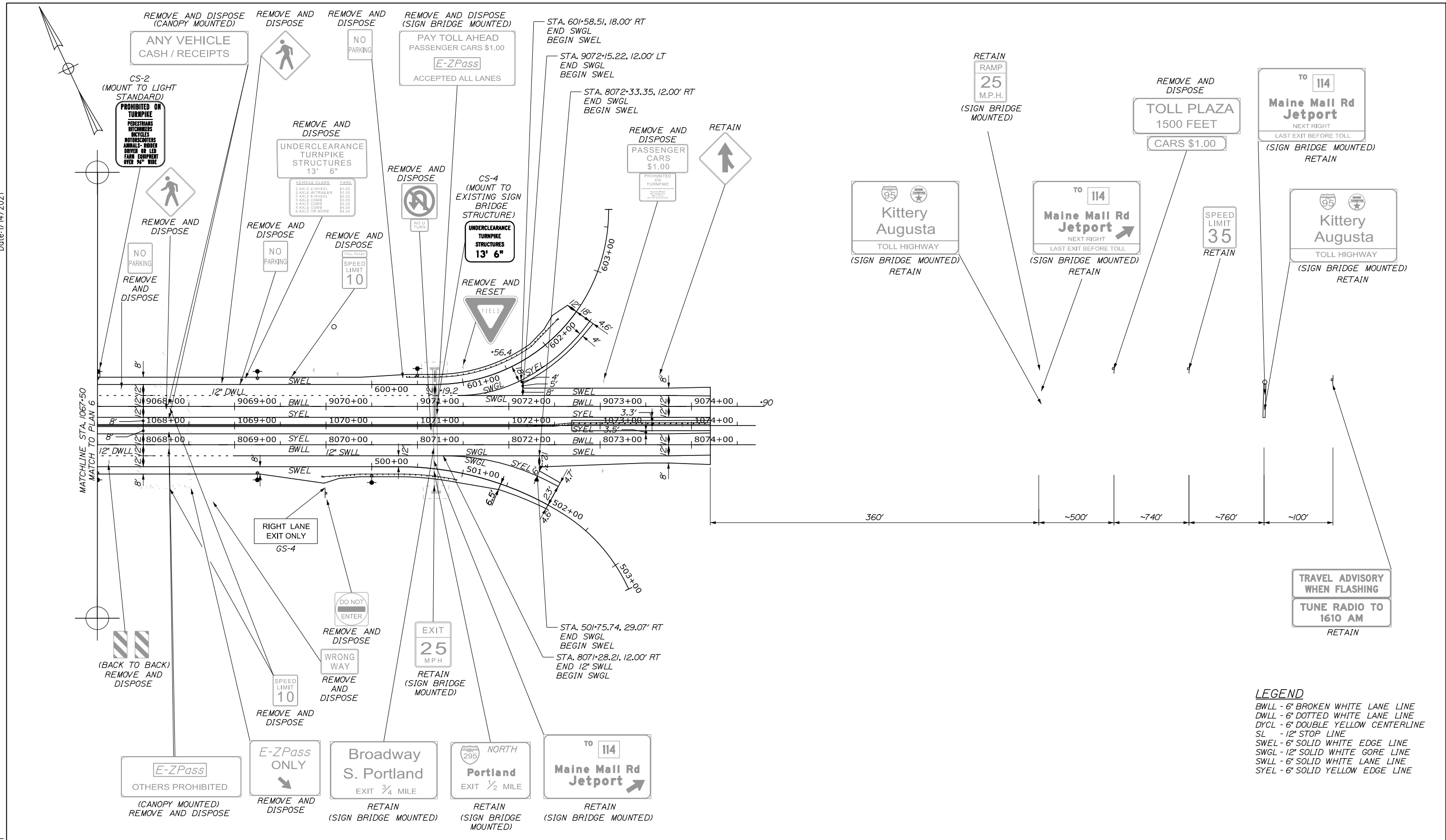
CONTRACT: 2021.07

SHEET NUMBER: SPM-06

105 OF 431

Filename: 0XX_SPM_Plan_6.dgn

Date: 1/14/2021



LEGEND
 BWLL - 6" BROKEN WHITE LANE LINE
 DWLL - 6" DOTTED WHITE LANE LINE
 DYCL - 6" DOUBLE YELLOW CENTERLINE
 SL - 12" STOP LINE
 SWEL - 6" SOLID WHITE EDGE LINE
 SWGL - 12" SOLID WHITE GORE LINE
 SWLL - 6" SOLID WHITE LANE LINE
 SYEL - 6" SOLID YELLOW EDGE LINE

Scale: 50 0 50 100
 Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	PEM	09\20	Checked	JRH	09\20
Drawn	PEM	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY



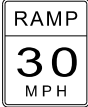

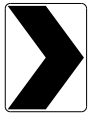
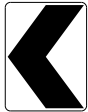




MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.










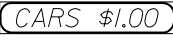


EXIT 45 INTERCHANGE RECONFIGURATION SIGNING & PAVEMENT MARKING PLANS (7 OF 7)

SHEET NUMBER: SPM-07
 106 OF 431

CONTRACT: 2021.07

REMOVE SIGN SUMMARY

DESCRIPTION	QUANTITY	DESCRIPTION	ROADWAY	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	1	1 WOOD POST	MAINLINE	2211+15	76' LT	DISPOSE
	1	1 H-BEAM POST	MAINLINE	2217+58	73' LT	DISPOSE
	1	1 WOOD POST	MAINLINE	2223+29	65' LT	DISPOSE
	1	MOUNTED TO LIGHT POLE	EXISTING SB OFF RAMP	-	RT	DISPOSE
	4	1 WOOD POST	EXISTING SB OFF RAMP	-	LT	DISPOSE
	5	1 WOOD POST	EXISTING SB ON RAMP	-	-	DISPOSE
	1	1 WOOD POST	ROUTE 703	1053+99	144' LT	DISPOSE
	1	1 WOOD POST	ROUTE 703	1058+41	LT	DISPOSE
	2	1 WOOD POST	NB OFF RAMP	420+06 420+06	35' RT 32' LT	DISPOSE
	2	1 WOOD POST	ROUTE 703	1063+02 1063+02	59' RT 0' RT	DISPOSE

DESCRIPTION	QUANTITY	DESCRIPTION	ROADWAY	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	2	1 WOOD POST	ROUTE 703	1063+02 1063+02	59' RT 0' RT	DISPOSE
	2	1 WOOD POST	ROUTE 703	1064+24	1' RT	DISPOSE
	1	1 WOOD POST	ROUTE 703	1064+94	57' RT	DISPOSE
	6	MOUNTED TO MEDIAN BARRIER	ROUTE 703	-	-	DISPOSE
	1	1 WOOD POST	ROUTE 703	1067+11	79' RT	DISPOSE
	1	MOUNTED TO LIGHT POLE	ROUTE 703	1068+79	83' RT	DISPOSE
	1	MOUNTED TO LIGHT POLE	ROUTE 703	1070+04	79' RT	DISPOSE
	1	1 WOOD POST	ROUTE 703	1071+15	3' RT	DISPOSE
	1	2 H-BEAM POSTS	ROUTE 703	-	-	DISPOSE
	1					DISPOSE
	1	3 H-BEAM POST	ROUTE 703	1073+04	49' LT	DISPOSE
	1					DISPOSE

Date: 1/14/2021

Filename: 0XX_RemoveSignSummary_01.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
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 Westbrook, ME 04092
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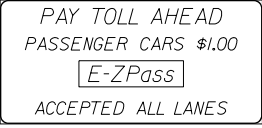


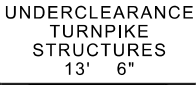
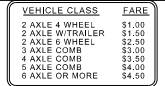


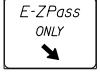
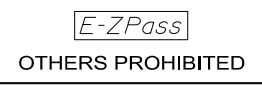



 THE GOLD STAR MEMORIAL HIGHWAY








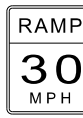
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 REMOVE SIGN SUMMARY

SHEET NUMBER: SS-01
 CONTRACT: 2021.07
 107 OF 431

REMOVE SIGN SUMMARY

DESCRIPTION	QUANTITY	DESCRIPTION	ROADWAY	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	1	1 WOOD POST	ROUTE 703	1071+15	3' RT	DISPOSE
	1					DISPOSE
	1	SIGN BRIDGE MOUNTED	ROUTE 703	1071+19	-	DISPOSE
	2	1 U-CHANNEL POST	ROUTE 703	1069+06 1070+84	56' LT 52' LT	DISPOSE
	1					DISPOSE
	1	1 WOOD POST	ROUTE 703	1069+62	54' LT	DISPOSE
	1					DISPOSE
	1	2 WOOD POSTS	ROUTE 703	1069+12	52' LT	DISPOSE
						
	1	1 WOOD POST	ROUTE 703	1069+06	46' LT	DISPOSE
	1	MOUNTED TO LIGHT POLE	ROUTE 703	1068+84	46' LT	DISPOSE
	1	1 U-CHANNEL POST	ROUTE 703	1068+52	69' RT	DISPOSE
	2	CANOPY MOUNTED	ROUTE 703	1068+28	7' RT 25' RT	STACK (645.107)
	2	CANOPY MOUNTED	ROUTE 703	1068+28	7' LT 23' LT	STACK (645.107)
	2	MOUNTED TO TOLL BOOTH	ROUTE 703	1068+28	19' LT 69' RT	DISPOSE
	1	MOUNTED TO TOLL BOOTH	ROUTE 703	1068+25	18' LT	DISPOSE

DESCRIPTION	QUANTITY	DESCRIPTION	ROADWAY	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	1	1 U-CHANNEL POST	ROUTE 703	1067+76	41' LT	DISPOSE
	3	1 U-CHANNEL POST	ROUTE 703	1066+41 1066+85 1067+30	81' LT	DISPOSE
	1	MOUNTED TO LIGHT POLE	ROUTE 703	1065+92	60' LT	DISPOSE
	1	1 WOOD POST	ROUTE 703	1063+03	57' LT	DISPOSE
	1	MOUNTED TO BRIDGE	ROUTE 703	1061+39	23' LT	DISPOSE
	1	MOUNTED TO BRIDGE	ROUTE 703	1061+42	39' LT	DISPOSE
	1	2 H-BEAM POSTS	ROUTE 703	1058+48	92' LT	DISPOSE
	1	1 WOOD POST	ROUTE 703	1055+83	155' LT	DISPOSE

Date: 1/14/2021

Filename: 0XX_RemoveSignSummary_02.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
 340 County Road, Suite 6-C
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 FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.



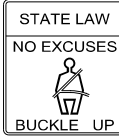



EXIT 45
INTERCHANGE RECONFIGURATION
REMOVE
SIGN SUMMARY

SHEET NUMBER: SS-02

CONTRACT: 2021.07


108 OF 431

REMOVE AND RESET SIGN SUMMARY




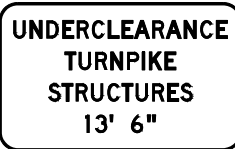



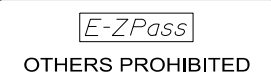

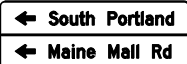
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		APPROXIMATE SIGN SIZE			COLOR		ROADWAY	LOCATION	OFFSET	NUMBER OF POSTS	POST SIZE	HEIGHT OF POST		FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	ROADWAY	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER
		WIDTH (IN.)	HEIGHT (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND						LEFT (FEET)	RIGHT (FEET)						
 R&R SIGN #1	1	48	72	24	YELLOW	BLACK	NB MAINLINE	2229+46	68' RT	1	W6X15	-	14.8	24" DIA.	YES	NB MAINLINE	2238+50	65' RT	645.501
 R&R SIGN #2	1	60x60x60		10.93	WHITE	RED	NB MAINLINE	2232+97	74' RT	1	W6X9	-	14.0	18" DIA.	YES	NB MAINLINE	2243+33	80' RT	645.502
 R&R SIGN #3	1	48	60	20	WHITE	BLACK	NB MAINLINE	2241+01	72' RT	MOUNT TO EXISTING LIGHT STANDARD					NB MAINLINE	2247+16	77' RT	645.503	
 R&R SIGN #4	1	60x60x60		10.93	WHITE	RED	SB MAINLINE	2208+74	73' LT	1	W6X9	-	14.0	18" DIA.	YES	RAMP A	102+00	16' LT	645.504
 R&R SIGN #5	1	48	72	24	YELLOW	BLACK	SB MAINLINE	2211+45	69' LT	1	W6X15	-	13.0	24" DIA.	YES	SB MAINLINE	2206+99	73' LT	645.505
 R&R SIGN #6	1	60x60x60		10.93	WHITE	RED	ROUTE 703 WB ON RAMP	601+03	16' LT	1	WOOD 6"X6"	-	-	-	NO	ROUTE 703 WB ON RAMP	601+03	16' LT	645.109

Date:1/14/2021

Filename: OXX_RemoveResetSignSummary_01.dgn



Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION REMOVE AND RESET SIGN SUMMARY	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		SHEET NUMBER: SS-03 CONTRACT:2021.07	
				Designed	By EDD	Date 09\20	Checked	By JRH	Date 09\20
				Drawn	By ARE	Date 09\20	In Charge of	By RAL	Date 09\20
								109 OF 431	

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	ROADWAY	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS
			WIDTH (IN.)	HEIGHT (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)							
CS-1		2	30	24	5 (10)	GREEN	WHITE	1 1	WOOD 6"X6" WOOD 6"X6"	- -	- -	- -	- -	NO NO	ACCESS RD RAMP C	2+17 310+23	68' LT 58' RT	645.271	
CS-2		1	36	48	12	WHITE	BLACK	MOUNT TO PROPOSED LIGHT STANDARD							ROUTE 703	1067+50	58' LT	645.271	
CS-3		2	54	36	13.5 (27)	FLUORESCENT YELLOW	BLACK	1 1	W8X24 W8X24	- -	16.8 16.8	- -	24" DIA. 24" DIA.	YES YES	RAMP A RAMP C	116+00 306+10	17' LT 17' RT	645.271	
CS-4		1	108	66	49.5	FLUORESCENT YELLOW	BLACK	MOUNT TO EXISTING SIGN BRIDGE							ROUTE 703	107+19	18' LT	645.124	
CS-5		2	54	48	18 (36)	WHITE	BLACK	MOUNT BELOW CS-3							RAMP A RAMP C	116+00 306+10	17' LT 17' RT	645.271	
CS-6		2	48	12	4 (8)	FLUORESCENT YELLOW	BLACK	1	WOOD 6"X6"	-	-	-	-	NO	RAMP A RAMP C	115+04 306+95	16' LT 14' RT	645.271	
CS-7		2	120	36	30 (60)	WHITE	BLACK	MOUNT TO PROPOSED TOLL PLAZA CANOPIES							RAMP A RAMP C	113+23 309+27	7' RT 7' LT	645.14	
CS-8		2				PURPLE	WHITE	MOUNT TO PROPOSED TOLL PLAZA CANOPIES							RAMP A RAMP C	113+23 309+27	47' RT 47' LT	645.141	
CS-9		2	24	36	6 (12)	WHITE	BLACK	1	WOOD 6"X6"	-	-	-	-	NO	RAMP A RAMP C	111+11 310+89	15' LT 14' RT	645.271	
CS-10		1	84	30	17.5	GREEN	WHITE	1	W8X24	-	13.0	-	24" DIA.	YES	RAMP B	207+49	20' LT	645.251	

Date: 1/14/2021

Filename: 0XX_ProposedSignSummary_01.dgn

Scale: NOT TO SCALE		Designed by:				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION PROPOSED SIGN SUMMARY		SHEET NUMBER: SS-04 CONTRACT: 2021.07											
<table border="1"> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		No.	Revision													By	Date					CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.	
No.	Revision	By	Date																						
<table border="1"> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> <tr> <td>Designed</td> <td>EDD 09\20</td> <td>Checked</td> <td>JRH 09\20</td> </tr> <tr> <td>Drawn</td> <td>ARE 09\20</td> <td>In Charge of</td> <td>RAL 09\20</td> </tr> </table>		By	Date	By	Date	Designed	EDD 09\20	Checked	JRH 09\20	Drawn	ARE 09\20	In Charge of	RAL 09\20												
By	Date	By	Date																						
Designed	EDD 09\20	Checked	JRH 09\20																						
Drawn	ARE 09\20	In Charge of	RAL 09\20																						

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	ROADWAY	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS				
			WIDTH (IN.)	HEIGHT (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)											
GS-1		1	132	90	82.5	GREEN	WHITE	2	W8X18	17.5	-	17.5	24" DIA.	YES	RAMP B	200+11	18' LT	645.251					
GS-2		1	414	198	569.25	GREEN	WHITE	MOUNT TO PROPOSED SIGN BRIDGE											ROUTE 703	1062+52	27' LT	645.123	
GS-3		1	384	120	320	GREEN	WHITE	3	W12X26	25.7	23.0	20.3	36" DIA.	YES	ROUTE 703	1057+28	56' LT	645.251					
GS-4		1	132	54	49.5	FLUORESCENT YELLOW	BLACK	2	W8X18	14.8	-	16.5	24" DIA.	YES	ROUTE 703	1070+00	74' RT	645.251					
E5-1a (45)		2	78	60	32.5 (65)	GREEN	WHITE	1 1	W8X24 W8X24	- -	13.5 13.5	- -	24" DIA. 24" DIA.	YES YES	RAMP B RAMP D	210+44 405+96	53' RT 55' LT	645.251					
MI-1 (295)		1	30	24	5	BLUE	WHITE	1	W6X15	-	13.9	-	24" DIA.	YES	RAMP B	201+00	16' LT	645.271					
MI-4 (1)		1	24	24	4	WHITE	BLACK	MOUNT WITH MI-1											RAMP B	201+00	16' LT	645.271	
MI-5 (114)		1	30	24	5	WHITE	BLACK	MOUNT WITH MI-1											RAMP B	201+00	16' LT	645.271	
M4-5		2	24	12	2 (4)	BLUE WHITE	WHITE BLACK	MOUNT WITH MI-1											RAMP B RAMP B	201+00 201+00	16' LT 16' LT	645.271	
M6-K(L)		2	21	15	2.19 (4.38)	BLUE WHITE	WHITE BLACK	MOUNT WITH MI-1											RAMP B RAMP B	201+00 201+00	16' LT 16' LT	645.271	
RI-1		2	36	36	9 (18)	RED	WHITE	1	WOOD 6"X6"	-	-	-	-	NO	ACCESS RD	0+38	18' LT	645.271					
								MOUNT TO PROPOSED LIGHT STANDARD											ACCESS RD	2+85	28' RT		
RI-1		2	48	48	16 (32)	RED	WHITE	1 1	W6X15 W6X15	- -	14.0 14.0	- -	24" DIA. 24" DIA.	YES YES	NB OFF EVR	453+71 453+73	12' LT 22' RT	645.271					

Date: 1/14/2021

Filename: 0XX_ProposedSignSummary_02.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909











**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
PROPOSED
SIGN SUMMARY

SHEET NUMBER: SS-05
CONTRACT: 2021.07
111 OF 431

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	ROADWAY	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS	
			WIDTH (IN.)	HEIGHT (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)								
RI-2		2	48 X 48 X 48			6.93 (13.86)	WHITE	RED	1 1	WOOD 6"x6" WOOD 6"x6"	- -	- -	- -	- -	NO NO	NB ON EVR	354+12 354+12	12' LT 22' RT	645.271	
R2-1 (10)		6	30	36	7.5 (45)	WHITE	BLACK	MOUNT BELOW CS-6 MOUNT TO PROPOSED LIGHT STANDARD BELOW CS-6						RAMP A	115+04	16' LT	645.271			
								MOUNT TO TOLL STRUCTURE MOUNT TO TOLL STRUCTURE MOUNT TO TOLL STRUCTURE MOUNT TO TOLL STRUCTURE						RAMP C	306+95	14' RT				
R2-1 (55)		1	30	36	7.5	WHITE	BLACK	1	WOOD 6"x6"	-	-	-	-	NO	ROUTE 703	1067+00	6' RT	645.271		
R3-1		1	36	36	9	WHITE	BLACK	1	WOOD 6"x6"	-	-	-	-	NO	ROUTE 703	1047+29	36' LT	645.271		
R3-5L		3	30	36	7.5 (22.5)	WHITE	BLACK	MOUNT TO MAST ARM FACING ROUTE 703 APPROACH						ROUTE 703	1046+18 1046+19	7' LT 19' LT	645.271			
								MOUNT TO MAST ARM FACING RAMP B APPROACH						RAMP A	119+07	22' RT				
R3-6		1	30	36	7.5	WHITE	BLACK	MOUNT TO MAST ARM FACING RAMP B APPROACH						RAMP A	119+10	10' RT	645.271			
R3-8		2	30	30	6.25 (12.5)	WHITE	BLACK	1 1	WOOD 6"x6" WOOD 6"x6"	- -	- -	- -	- -	NO NO	RAMP B	201+88 201+88	16' LT 36' RT	645.271		
R3-8 (MOD)		1	36	36	9	WHITE	BLACK	1	WOOD 6"x6"	-	-	-	-	NO	ROUTE 703	1048+06	43' LT	645.271		
R4-5		2	48	60	20 (40)	WHITE	BLACK	1 1	W6X15 W6X15	- -	14.5 14.5	- -	24" DIA. 24" DIA.	YES YES	RAMP B RAMP B	206+74 206+74	16' LT 35' RT	645.271		
R5-1		4	30	30	6.25 (25)	RED	WHITE	1	WOOD 6"x6"	-	-	-	-	NO	NB ON EVR	354+08	21' RT	645.271		
								1	WOOD 6"x6"	-	-	-	-	NO	NB ON EVR	354+19	12' LT			
								1	WOOD 6"x6"	-	-	-	-	NO	NB OFF EVR	453+75	18' LT			
								1	WOOD 6"x6"	-	-	-	-	NO	NB OFF EVR	453+81	21' RT			

Date: 1/14/2021

Filename: 0XX_ProposedSignSummary_03.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
340 County Road, Suite 6-C
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
PROPOSED
SIGN SUMMARY

SHEET NUMBER: SS-06
CONTRACT: 2021.07
112 OF 431

PROPOSED SIGN SUMMARY



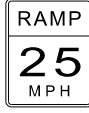
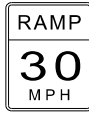
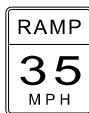
IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	ROADWAY	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS
			WIDTH (IN.)	HEIGHT (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)							
R5-1		2	36	36	9 (18)	RED	WHITE	MOUNT TO PROPOSED LIGHT STANDARD					RAMP B	200+69	19' LT	645.271			
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP B	200+69	37' RT		
R5-1a		8	42	30	8.75 (70)	RED	WHITE	MOUNT BACK TO BACK WITH R3-8 MOUNT BACK TO BACK WITH R3-8 MOUNT BACK TO BACK WITH W3-3 MOUNT BACK TO BACK WITH W3-3					RAMP B	201+88	16' LT	645.271			
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP B		201+88	35' RT	
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP B		205+00	16' LT	
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP B		205+00	36' RT	
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP D		407+00	26' LT	
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP D	407+00	19' RT		
								1	WOOD 6"x6"	-	-	-	-	NO	NB OFF EVR	452+13	12' LT		
								1	WOOD 6"x6"	-	-	-	-	NO	NB OFF EVR	452+22	22' RT		
R5-11		9	30	24	5 (45)	WHITE	BLACK	MOUNT BACK TO BACK WITH R5-1a MOUNT BACK TO BACK WITH R5-1a					ACCESS RD	0+60	19' RT	645.271			
								1	WOOD 6"x6"	-	-	-	-	NO	ACCESS RD		2+70	19' LT	
								1	WOOD 6"x6"	-	-	-	-	NO	NB ON EVR		350+60	15' LT	
								1	WOOD 6"x6"	-	-	-	-	NO	NB ON EVR		350+60	23' RT	
								1	WOOD 6"x6"	-	-	-	-	NO	NB OFF EVR		452+13	12' LT	
								1	WOOD 6"x6"	-	-	-	-	NO	NB OFF EVR		452+22	22' RT	
								1	WOOD 6"x6"	-	-	-	-	NO	ROUTE 703		1046+73	73' RT	
R6-1L		2	54	18	6.75 (20.25)	WHITE	BLACK	MOUNT 90° TO MI-1 MOUNT 90° TO R5-1					RAMP B	200+69	18' LT	645.271			
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP B	200+69	37' RT		
R6-1R		5	54	18	6.75 (27)	WHITE	BLACK	MOUNT TO PROPOSED LIGHT STANDARD ABOVE RI-1 MOUNT 90° TO RI-2 MOUNT 90° TO RI-2 MOUNT 90° TO RI-1 MOUNT 90° TO RI-1					ACCESS RD	2+85	28' RT	645.271			
								1	WOOD 6"x6"	-	-	-	-	NO	NB ON EVR		354+12	12' LT	
								1	WOOD 6"x6"	-	-	-	-	NO	NB ON EVR		354+12	20' RT	
								1	WOOD 6"x6"	-	-	-	-	NO	NB OFF EVR		453+71	12' LT	
								1	WOOD 6"x6"	-	-	-	-	NO	NB OFF EVR		453+73	20' RT	
R7-8		2	12	18	1.5 (3)	WHITE	GREEN	1	U CHANNEL	-	9	-	-	NO	ACCESS RD	2+34	70' LT	645.271	
								1	U CHANNEL	-	9	-	-	NO	RAMP C	310+02	58' RT		
R7-8p		2	12	6	0.5 (1.0)	WHITE	GREEN	MOUNT BELOW R7-8 MOUNT BELOW R7-8					ACCESS RD	2+34	70' LT	645.271			
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP C	310+02	58' RT		
R8-3a		4	24	30	5 (20)	WHITE	BLACK	MOUNT TO PROPOSED LIGHT STANDARD MOUNT TO PROPOSED LIGHT STANDARD MOUNT TO PROPOSED LIGHT STANDARD MOUNT TO PROPOSED LIGHT STANDARD					RAMP A	114+05	15' LT	645.271			
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP A		117+06	14' LT	
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP C		305+00	14' RT	
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP C		308+45	14' RT	
W1-8		4	36	48	12 (48)	FLUORESCENT YELLOW	BLACK	1	WOOD 6"x6"	-	-	-	-	NO	RAMP C	302+77	36' LT	645.271	
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP C	303+43	36' LT		
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP C	304+12	36' LT		
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP C	304+82	36' LT		
W3-3		2	48	48	16 (32)	FLUORESCENT YELLOW	BLACK	1	WOOD 6"x6"	-	-	-	-	NO	RAMP B	205+00	16' LT	645.271	
								1	WOOD 6"x6"	-	-	-	-	NO	RAMP B	205+00	36' RT		

Date: 1/14/2021

Filename: 0XX_ProposedSignSummary_04.dgn

Scale: NOT TO SCALE		Designed by:				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION PROPOSED SIGN SUMMARY		SHEET NUMBER: SS-07 113 OF 431					
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No.	Revision	By	Date																
<table border="1"> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> <tr> <td>EDD</td> <td>09\20</td> <td>JRH</td> <td>09\20</td> </tr> <tr> <td>ARE</td> <td>09\20</td> <td>RAL</td> <td>09\20</td> </tr> </table>		By	Date	By	Date	EDD	09\20	JRH	09\20	ARE	09\20	RAL	09\20	Drawn: ARE 09\20 In Charge of: RAL 09\20					
By	Date	By	Date																
EDD	09\20	JRH	09\20																
ARE	09\20	RAL	09\20																

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	ROADWAY	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS
			WIDTH (IN.)	HEIGHT (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)							
W4-6		2	48	48	16 (32)	FLUORESCENT YELLOW	BLACK	1 1	WOOD 6"x6" WOOD 6"x6"	- -	- -	- -	- -	NO NO	RAMP D	416+50 416+50	29' LT 18' RT	645.271	
W9-7R	RIGHT LANE EXIT ONLY AHEAD	1	132	72	66	FLUORESCENT YELLOW	BLACK	2	W8X18	17.1	-	18.8	24" DIA.	YES	ROUTE 703	1065+00	65' RT	645.251	
W11-2		2	48	48	16 (32)	FLUORESCENT YELLOW GREEN	BLACK	1 1	WOOD 6"x6" WOOD 6"x6"	- -	- -	- -	- -	NO NO	RAMP A RAMP C	113+30 309+19	16' LT 16' RT	645.271	
W13-3 (25)		1	36	48	12	FLUORESCENT YELLOW	BLACK	MOUNT TO PROPOSED LIGHT STANDARD						RAMP C	298+85	18' RT	645.271		
W13-3 (30)		1	36	48	12	FLUORESCENT YELLOW	BLACK	MOUNT TO PROPOSED LIGHT STANDARD						RAMP B	215+36	16' RT	645.271		
W13-3 (35)		1	36	48	12	FLUORESCENT YELLOW	BLACK	MOUNT TO PROPOSED LIGHT STANDARD						RAMP D	401+25	15' RT	645.271		

Date: 1/14/2021

Filename: 0XX_ProposedSignSummary_05.dgn

Scale: NOT TO SCALE


No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	ARE 09\20	In Charge of	RAL 09\20

HNTB CORPORATION
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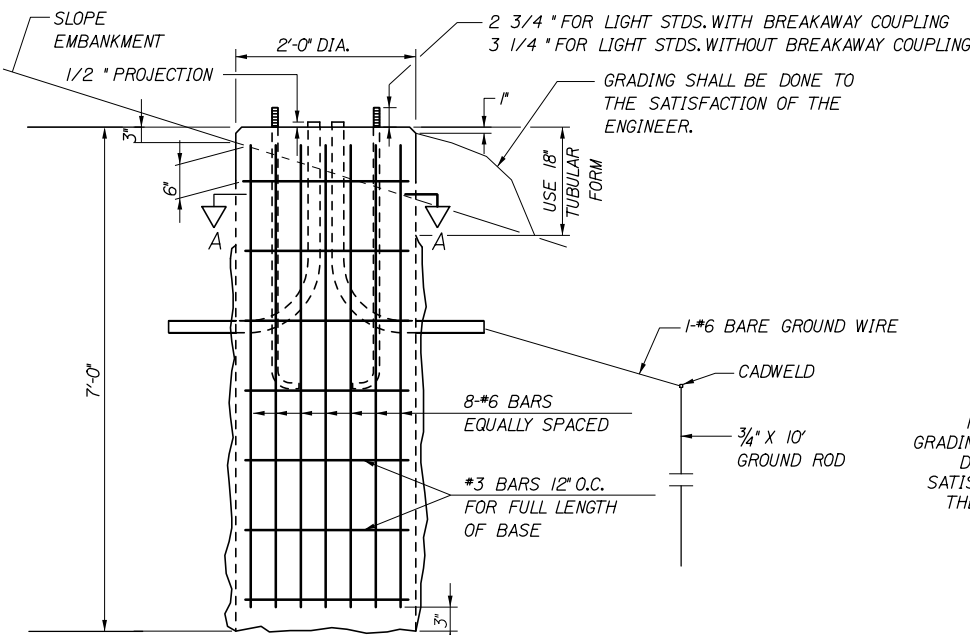
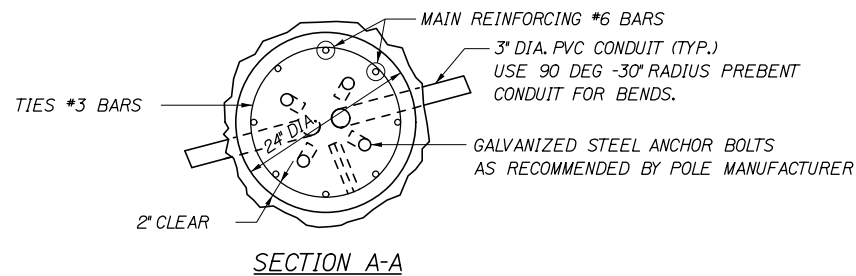
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

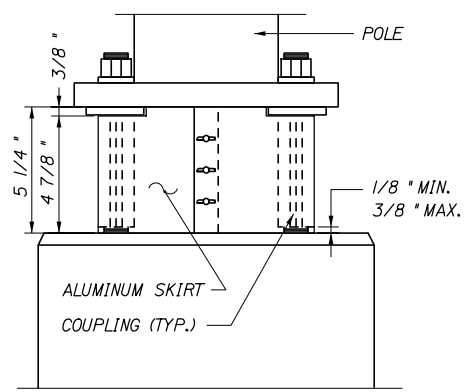
EXIT 45
INTERCHANGE RECONFIGURATION
PROPOSED
SIGN SUMMARY

SHEET NUMBER: SS-08
CONTRACT: 2021.07
114 OF 431

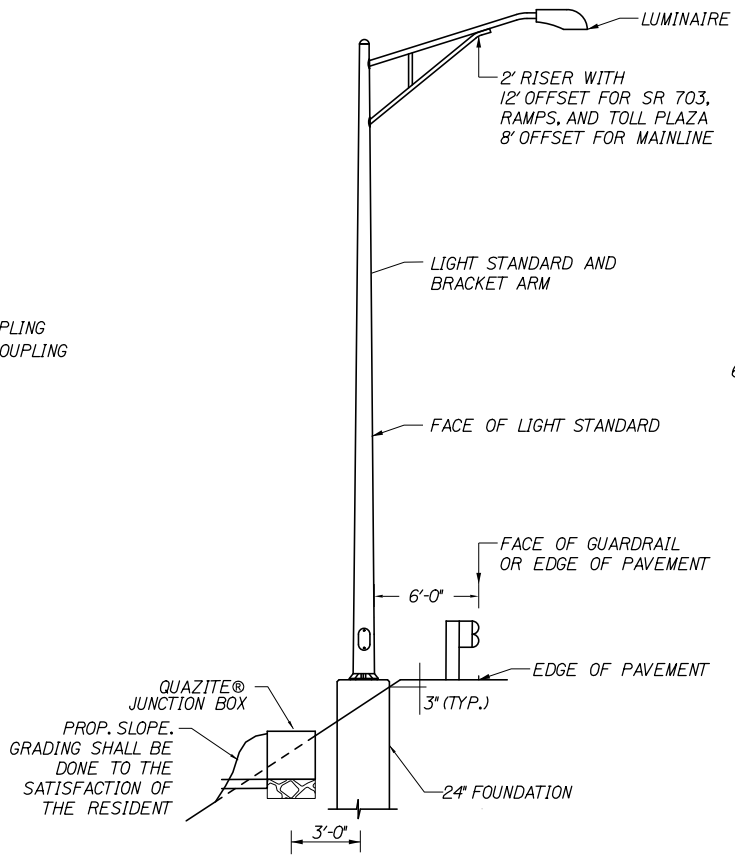
Date: 1/14/2021



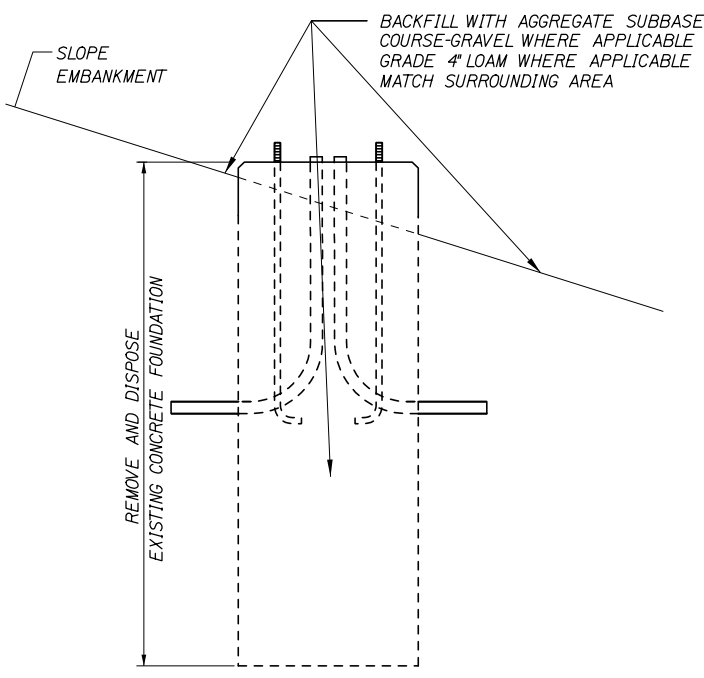
NOTE: WHERE SOLID ROCK IS ENCOUNTERED AT LESS THAN THE REQUIRED DISTANCE BELOW GROUND LEVEL, REINFORCING STEEL SHALL BE DOWELED INTO LEDGE AS SHOWN ON MAINE DOT STANDARD DETAIL 626(06). PAYMENT SHALL BE INCIDENTAL TO THE FOUNDATION PAY ITEM.



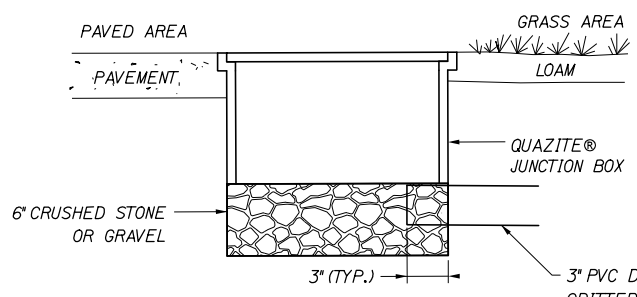
BREAKAWAY COUPLINGS AND SKIRT DETAIL *
NOT TO SCALE
* BREAKAWAY COUPLINGS SHALL BE REQUIRED ON ALL NEW AND RESET LIGHT STANDARDS



PLACEMENT OF LIGHT STANDARD
NO SCALE

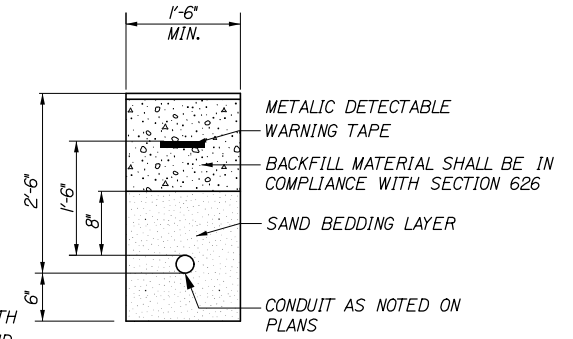


REMOVAL OF CONCRETE FOUNDATION
NOT TO SCALE

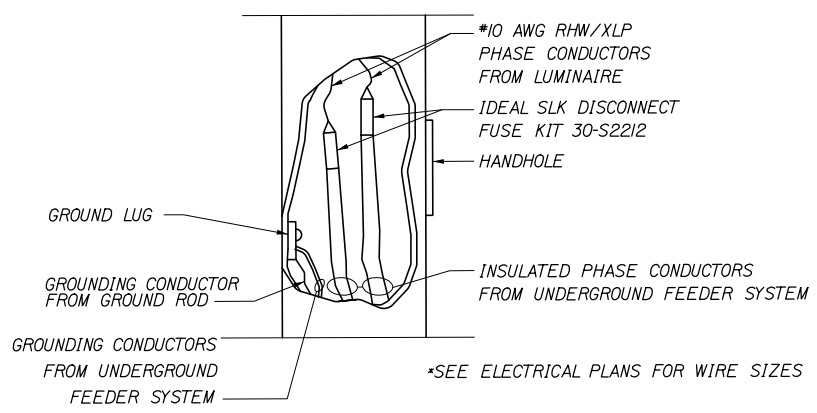


JUNCTION BOX COVER & FRAME

NOTE: INSTALL JUNCTION BOXES ON GRADE



TRENCH CROSS SECTION



TYPICAL POLE WIRING DETAIL

NOTES:
1. JUNCTION BOXES FOR HIGHWAY LIGHTING SHALL BE QUAZITE® OR APPROVED EQUAL AND IN ACCORDANCE WITH SPECIAL PROVISION 626.
2. SPLICES IN JUNCTION BOX SHALL BE MADE WITH BURNDY UGS350ULDB DIRECT BURIAL/SUBMERSIBLE SPLICE WIRE RANGE #12 AWG - 350 KCMIL ONLY. PROVIDE ENOUGH SLACK IN THE WIRE TO ALLOW REMOVAL OF SPLICES AND NEATLY ARRANGE WIRE IN BOX.

Filename: 0XX_Lighting_Detail.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
LIGHTING DETAILS

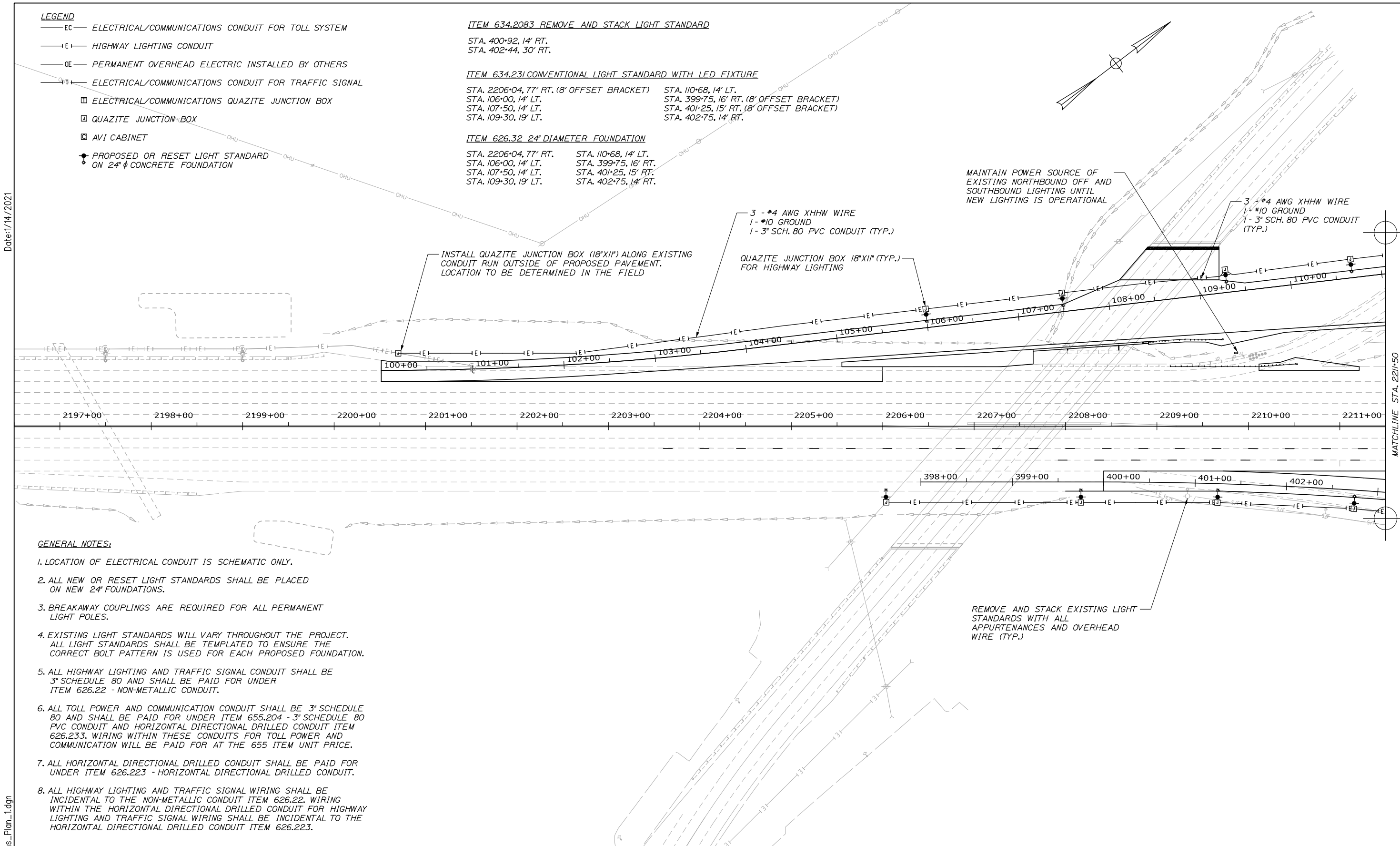
SHEET NUMBER: LDN-01
CONTRACT: 2021.07
115 OF 431

- LEGEND**
- EC— ELECTRICAL/COMMUNICATIONS CONDUIT FOR TOLL SYSTEM
 - EI— HIGHWAY LIGHTING CONDUIT
 - OE— PERMANENT OVERHEAD ELECTRIC INSTALLED BY OTHERS
 - TI— ELECTRICAL/COMMUNICATIONS CONDUIT FOR TRAFFIC SIGNAL
 - ELECTRICAL/COMMUNICATIONS QUAZITE JUNCTION BOX
 - QUAZITE JUNCTION BOX
 - AVI CABINET
 - PROPOSED OR RESET LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION

ITEM 634.2083 REMOVE AND STACK LIGHT STANDARD
 STA. 400+92, 14' RT.
 STA. 402+44, 30' RT.

ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE
 STA. 2206+04, 77' RT. (8' OFFSET BRACKET) STA. 110+68, 14' LT.
 STA. 106+00, 14' LT. STA. 399+75, 16' RT. (8' OFFSET BRACKET)
 STA. 107+50, 14' LT. STA. 401+25, 15' RT. (8' OFFSET BRACKET)
 STA. 109+30, 19' LT. STA. 402+75, 14' RT.

ITEM 626.32 24" DIAMETER FOUNDATION
 STA. 2206+04, 77' RT. STA. 110+68, 14' LT.
 STA. 106+00, 14' LT. STA. 399+75, 16' RT.
 STA. 107+50, 14' LT. STA. 401+25, 15' RT.
 STA. 109+30, 19' LT. STA. 402+75, 14' RT.



MAINTAIN POWER SOURCE OF EXISTING NORTHBOUND OFF AND SOUTHBOUND LIGHTING UNTIL NEW LIGHTING IS OPERATIONAL

3 - #4 AWG XHHW WIRE
 1 - #10 GROUND
 1 - 3" SCH. 80 PVC CONDUIT (TYP.)

QUAZITE JUNCTION BOX 18"X18" (TYP.) FOR HIGHWAY LIGHTING

INSTALL QUAZITE JUNCTION BOX (18"X18") ALONG EXISTING CONDUIT RUN OUTSIDE OF PROPOSED PAVEMENT. LOCATION TO BE DETERMINED IN THE FIELD

3 - #4 AWG XHHW WIRE
 1 - #10 GROUND
 1 - 3" SCH. 80 PVC CONDUIT (TYP.)

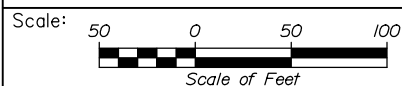
REMOVE AND STACK EXISTING LIGHT STANDARDS WITH ALL APPURTENANCES AND OVERHEAD WIRE (TYP.)

GENERAL NOTES:

1. LOCATION OF ELECTRICAL CONDUIT IS SCHEMATIC ONLY.
2. ALL NEW OR RESET LIGHT STANDARDS SHALL BE PLACED ON NEW 24" FOUNDATIONS.
3. BREAKAWAY COUPLINGS ARE REQUIRED FOR ALL PERMANENT LIGHT POLES.
4. EXISTING LIGHT STANDARDS WILL VARY THROUGHOUT THE PROJECT. ALL LIGHT STANDARDS SHALL BE TEMPLATED TO ENSURE THE CORRECT BOLT PATTERN IS USED FOR EACH PROPOSED FOUNDATION.
5. ALL HIGHWAY LIGHTING AND TRAFFIC SIGNAL CONDUIT SHALL BE 3" SCHEDULE 80 AND SHALL BE PAID FOR UNDER ITEM 626.22 - NON-METALLIC CONDUIT.
6. ALL TOLL POWER AND COMMUNICATION CONDUIT SHALL BE 3" SCHEDULE 80 AND SHALL BE PAID FOR UNDER ITEM 655.204 - 3" SCHEDULE 80 PVC CONDUIT AND HORIZONTAL DIRECTIONAL DRILLED CONDUIT ITEM 626.233. WIRING WITHIN THESE CONDUITS FOR TOLL POWER AND COMMUNICATION WILL BE PAID FOR AT THE 655 ITEM UNIT PRICE.
7. ALL HORIZONTAL DIRECTIONAL DRILLED CONDUIT SHALL BE PAID FOR UNDER ITEM 626.223 - HORIZONTAL DIRECTIONAL DRILLED CONDUIT.
8. ALL HIGHWAY LIGHTING AND TRAFFIC SIGNAL WIRING SHALL BE INCIDENTAL TO THE NON-METALLIC CONDUIT ITEM 626.22. WIRING WITHIN THE HORIZONTAL DIRECTIONAL DRILLED CONDUIT FOR HIGHWAY LIGHTING AND TRAFFIC SIGNAL WIRING SHALL BE INCIDENTAL TO THE HORIZONTAL DIRECTIONAL DRILLED CONDUIT ITEM 626.223.

Date: 1/14/2021

Filename: 0XX_Communications_Plan_1.dgn



Designed by:



HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

**EXIT 45
 INTERCHANGE RECONFIGURATION
 POWER AND COMMUNICATION
 PLANS (1 OF 7)**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	09\20	Checked JRH 09\20
Drawn	AJS	09\20	In Charge of RAL 09\20

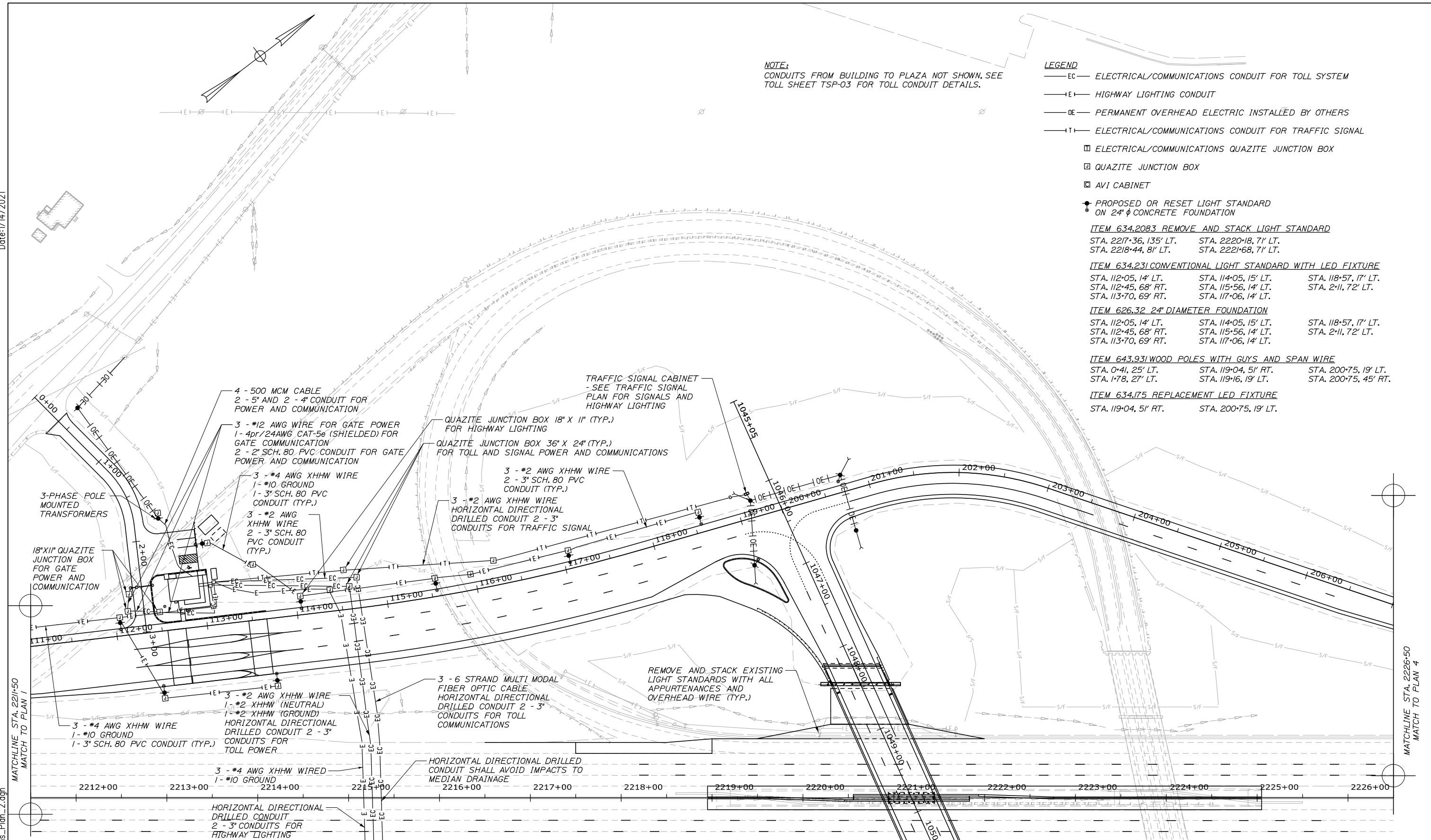
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: CP-01

116 OF 431

Date: 1/14/2021

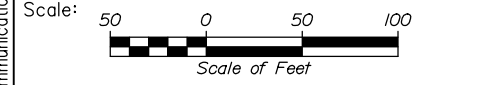


NOTE:
 CONDUITS FROM BUILDING TO PLAZA NOT SHOWN, SEE TOLL SHEET TSP-03 FOR TOLL CONDUIT DETAILS.

- LEGEND**
- EC — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TOLL SYSTEM
 - EI — HIGHWAY LIGHTING CONDUIT
 - OE — PERMANENT OVERHEAD ELECTRIC INSTALLED BY OTHERS
 - TI — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TRAFFIC SIGNAL
 - ELECTRICAL/COMMUNICATIONS QUARTZITE JUNCTION BOX
 - QUARTZITE JUNCTION BOX
 - AVI CABINET
 - ⬤ PROPOSED OR RESET LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION

- ITEM 634.2083 REMOVE AND STACK LIGHT STANDARD**
 STA. 2217+36, 135' LT. STA. 2220+18, 71' LT.
 STA. 2218+44, 81' LT. STA. 2221+68, 71' LT.
- ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE**
 STA. 112+05, 14' LT. STA. 114+05, 15' LT. STA. 118+57, 17' LT.
 STA. 112+45, 68' RT. STA. 115+56, 14' LT. STA. 2+11, 72' LT.
 STA. 113+70, 69' RT. STA. 117+06, 14' LT.
- ITEM 626.32 24" DIAMETER FOUNDATION**
 STA. 112+05, 14' LT. STA. 114+05, 15' LT. STA. 118+57, 17' LT.
 STA. 112+45, 68' RT. STA. 115+56, 14' LT. STA. 2+11, 72' LT.
 STA. 113+70, 69' RT. STA. 117+06, 14' LT.
- ITEM 643.931 WOOD POLES WITH GUYS AND SPAN WIRE**
 STA. 0+41, 25' LT. STA. 119+04, 51' RT. STA. 200+75, 19' LT.
 STA. 1+78, 27' LT. STA. 119+16, 19' LT. STA. 200+75, 45' RT.
- ITEM 634.175 REPLACEMENT LED FIXTURE**
 STA. 119+04, 51' RT. STA. 200+75, 19' LT.

File name: OXX_Communications_Plan_2.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

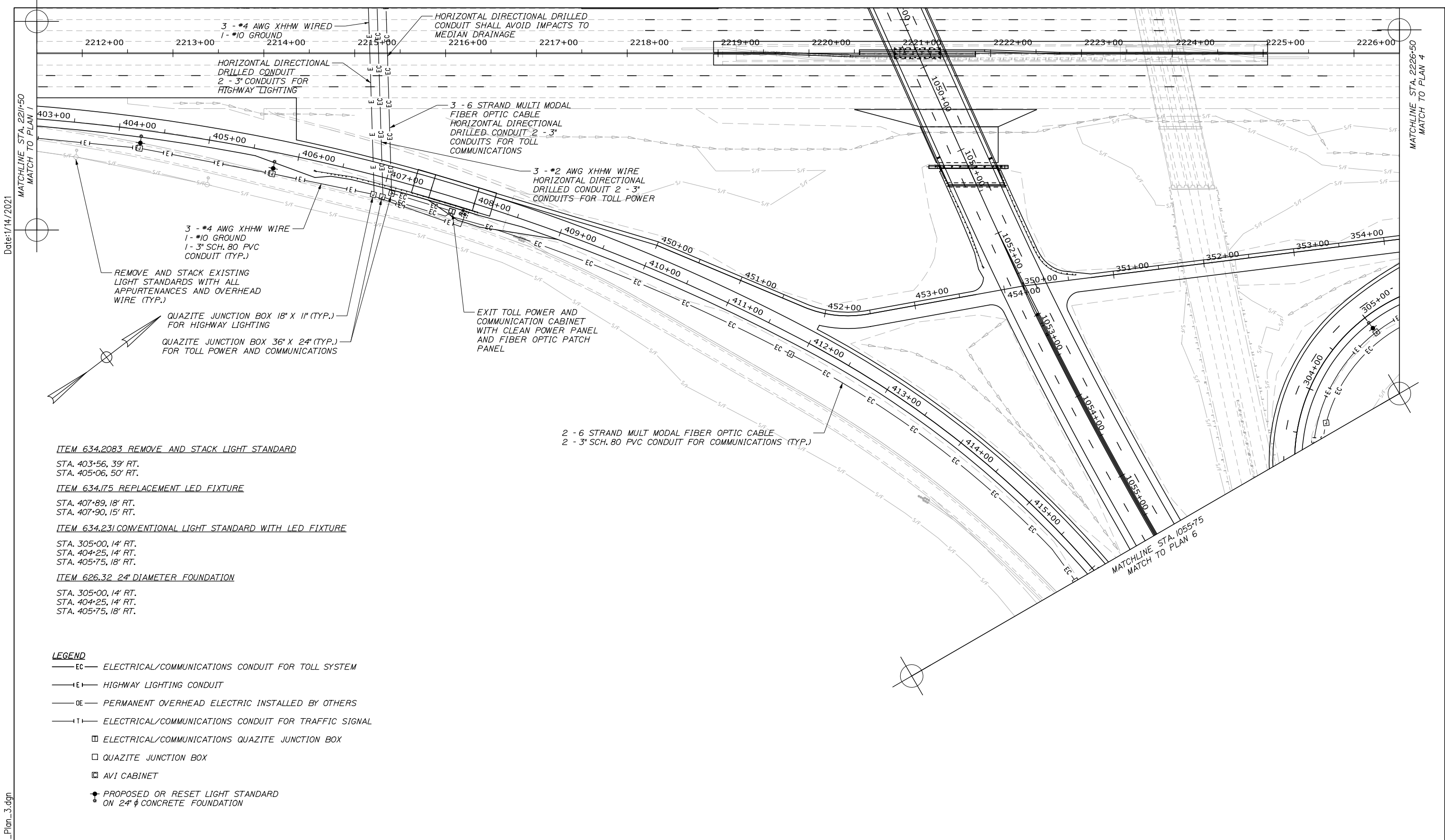
**EXIT 45
 INTERCHANGE RECONFIGURATION
 POWER AND COMMUNICATION
 PLANS (2 OF 7)**

SHEET NUMBER: CP-02
 CONTRACT: 2021.07
 117 OF 431

Date: 1/14/2021

MATCHLINE STA. 221+50
MATCH TO PLAN 1

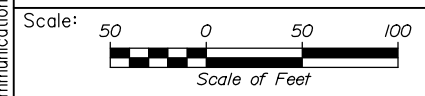
MATCHLINE STA. 2226+50
MATCH TO PLAN 4



- ITEM 634.2083 REMOVE AND STACK LIGHT STANDARD**
STA. 403+56, 39' RT.
STA. 405+06, 50' RT.
- ITEM 634.175 REPLACEMENT LED FIXTURE**
STA. 407+89, 18' RT.
STA. 407+90, 15' RT.
- ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE**
STA. 305+00, 14' RT.
STA. 404+25, 14' RT.
STA. 405+75, 18' RT.
- ITEM 626.32 24" DIAMETER FOUNDATION**
STA. 305+00, 14' RT.
STA. 404+25, 14' RT.
STA. 405+75, 18' RT.

- LEGEND**
- EC — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TOLL SYSTEM
 - LE — HIGHWAY LIGHTING CONDUIT
 - OE — PERMANENT OVERHEAD ELECTRIC INSTALLED BY OTHERS
 - TE — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TRAFFIC SIGNAL
 - ELECTRICAL/COMMUNICATIONS QUAZITE JUNCTION BOX
 - QUAZITE JUNCTION BOX
 - AVI CABINET
 - PROPOSED OR RESET LIGHT STANDARD ON 24" Ø CONCRETE FOUNDATION

Filename: 0XX_Communications_Plan_3.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
POWER AND COMMUNICATION
PLANS (3 OF 7)**

CONTRACT: 2021.07

SHEET NUMBER: CP-03

118 OF 431

Date: 1/14/2021

MATCHLINE STA. 2226+50
MATCH TO PLAN 2 & 3

Filename: 0XX_Communications_Plan_4.dgn

NOTE:
CONDUITS FROM BUILDING TO PLAZA NOT SHOWN, SEE
TOLL SHEET TSP-03 FOR TOLL CONDUIT DETAILS

ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE

- STA. 210+86, 24' LT.
- STA. 212+36, 14' LT.
- STA. 213+86, 14' LT. (8' OFFSET BRACKET)
- STA. 215+36, 16' LT. (8' OFFSET BRACKET)
- STA. 216+86, 16' LT. (8' OFFSET BRACKET)
- STA. 306+95, 14' RT.
- STA. 308+45, 14' RT.
- STA. 308+80, 68' LT.
- STA. 310+05, 68' LT.
- STA. 310+40, 63' RT.
- STA. 310+89, 14' RT.
- STA. 312+20, 14' RT.
- STA. 313+70, 14' RT.
- STA. 315+20, 14' RT.
- STA. 316+70, 14' RT.

ITEM 626.32 24" DIAMETER FOUNDATION

- STA. 210+86, 24' LT.
- STA. 212+36, 14' LT.
- STA. 213+86, 14' LT.
- STA. 215+36, 16' LT.
- STA. 216+86, 16' LT.
- STA. 306+95, 14' RT.
- STA. 308+45, 14' RT.
- STA. 308+80, 68' LT.
- STA. 310+05, 68' LT.
- STA. 310+40, 63' RT.
- STA. 312+20, 14' RT.
- STA. 313+70, 14' RT.
- STA. 315+20, 14' RT.
- STA. 316+70, 14' RT.

ITEM 634.175 REPLACEMENT LED FIXTURE

- STA. 209+25, 22' LT.
- STA. 209+26, 15' LT.

LEGEND

- EC — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TOLL SYSTEM
- IE — HIGHWAY LIGHTING CONDUIT
- OE — PERMANENT OVERHEAD ELECTRIC INSTALLED BY OTHERS
- IT — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TRAFFIC SIGNAL
- — ELECTRICAL/COMMUNICATIONS QUAZITE JUNCTION BOX
- — QUAZITE JUNCTION BOX
- — AVI CABINET
- ★ — PROPOSED OR RESET LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION

EXIT TOLL POWER AND COMMUNICATION CABINET WITH CLEAN POWER PANEL AND FIBER OPTIC PATCH PANEL.

QUAZITE JUNCTION BOX 36" X 24" (TYP.) FOR TOLL POWER AND COMMUNICATIONS

3 - #4 AWG XHHW WIRE
1 - #10 GROUND
1 - 3" SCH. 80 PVC CONDUIT (TYP.)

QUAZITE JUNCTION BOX 18" X 11" (TYP.) FOR HIGHWAY LIGHTING

3 - #2 AWG XHHW WIRE
1 - #2 AWG XHHW (NEUTRAL WIRE)
1 - #2 AWG XHHW (GROUND)
HORIZONTAL DIRECTIONAL DRILLED CONDUIT 2 - 3" CONDUITS FOR TOLL POWER

3 - #4 AWG XHHW WIRE
1 - #10 GROUND
HORIZONTAL DIRECTIONAL DRILLED CONDUIT 2 - 3" CONDUITS FOR HIGHWAY LIGHTING

1 - 6 STRAND MULTI MODAL FIBER OPTIC CABLE
HORIZONTAL DIRECTIONAL DRILLED CONDUIT 2 - 3" CONDUITS FOR TOLL COMMUNICATIONS (TYP.)

3 - #2 AWG XHHW WIRE
1 - #10 GROUND
1 - 3" SCH. 80 PVC CONDUIT (TYP.)

QUAZITE JUNCTION BOX 18" X 11" (TYP.)

3 - #4 AWG XHHW WIRE
1 - #10 GROUND
1 - 3" SCH. 80 PVC CONDUIT (TYP.)

3 - #2 AWG XHHW WIRE
1 - #10 GROUND
HORIZONTAL DIRECTIONAL DRILLED CONDUIT 2 - 3" CONDUITS FOR HIGHWAY LIGHTING

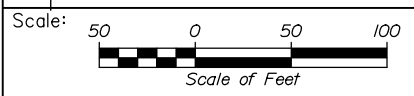
QUAZITE JUNCTION BOX 48" X 36" (TYP.) FOR TOLL AND SIGNAL POWER, COMMUNICATIONS ENTERING BUILDING

4 - 500 MCM CABLE
2 - 5" SCH. 80 CONDUIT FOR POWER

3-PHASE POLE MOUNTED TRANSFORMERS

3 - 6 STRAND MULTI MODAL FIBER OPTIC CABLE
HORIZONTAL DIRECTIONAL DRILLED CONDUIT 2 - 3" CONDUITS FOR TOLL COMMUNICATIONS (TYP.)

3 - 6 STRAND MULTI MODAL FIBER OPTIC CABLE
2 - 3" SCH. 80 PVC CONDUIT FOR COMMUNICATIONS (TYP.)



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
POWER AND COMMUNICATION
PLANS (4 OF 7)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

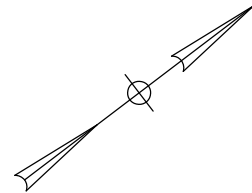
CONTRACT: 2021.07

SHEET NUMBER: CP-04

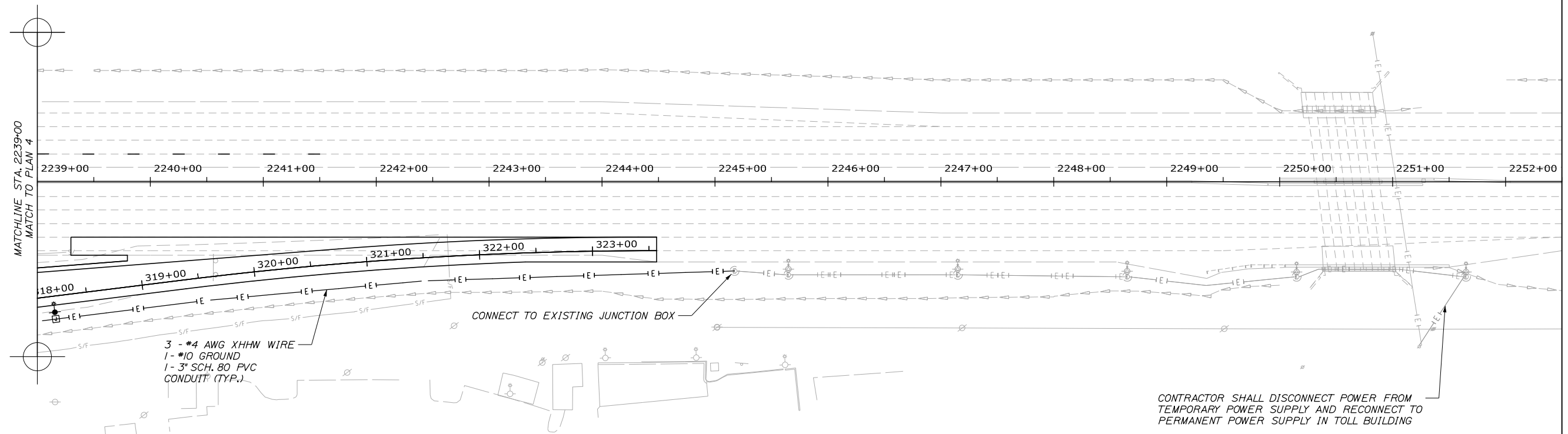
119 OF 431

Date: 1/14/2021

Filename: 0XX_Communications_Plan_5.dgn



- LEGEND**
- EC— ELECTRICAL/COMMUNICATIONS CONDUIT FOR TOLL SYSTEM
 - E— HIGHWAY LIGHTING CONDUIT
 - OE— PERMANENT OVERHEAD ELECTRIC INSTALLED BY OTHERS
 - T— ELECTRICAL/COMMUNICATIONS CONDUIT FOR TRAFFIC SIGNAL
 - ELECTRICAL/COMMUNICATIONS QUAZITE JUNCTION BOX
 - QUAZITE JUNCTION BOX
 - AVI CABINET
 - ⬤ PROPOSED OR RESET LIGHT STANDARD ON 24" ϕ CONCRETE FOUNDATION



ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE

STA. 318+20, 14' RT.

ITEM 626.32 24" DIAMETER FOUNDATION

STA. 318+20, 14' RT.



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION
POWER AND COMMUNICATION
PLANS (5 OF 7)**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	AJS 09\20	In Charge of	RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

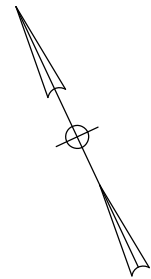
CONTRACT: 2021.07

SHEET NUMBER: CP-05

120 OF 431

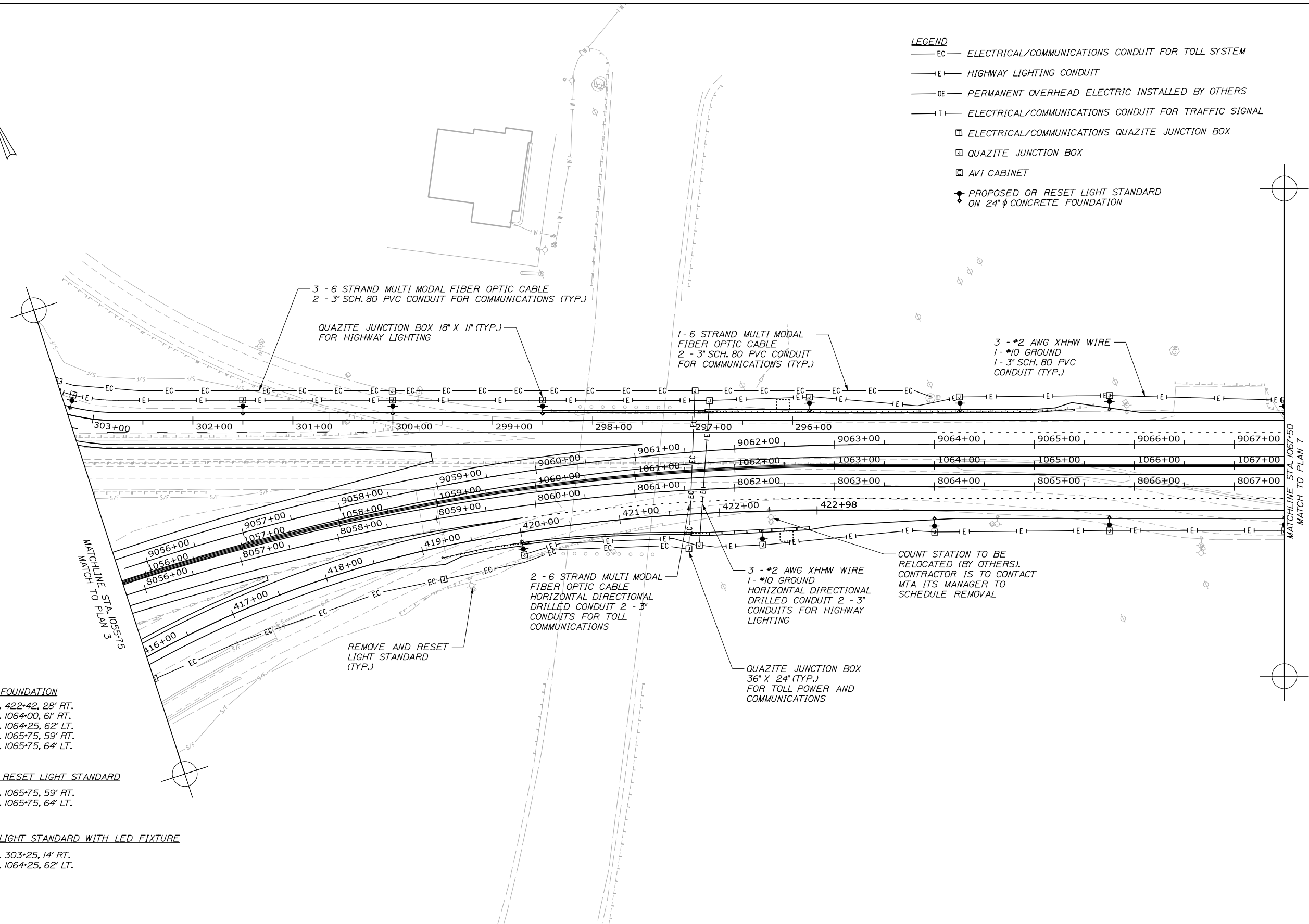
Date: 1/14/2021

Filename: OXX_Communications_Plan_6.dgn



LEGEND

- EC — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TOLL SYSTEM
- EI — HIGHWAY LIGHTING CONDUIT
- OE — PERMANENT OVERHEAD ELECTRIC INSTALLED BY OTHERS
- TI — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TRAFFIC SIGNAL
- ELECTRICAL/COMMUNICATIONS QUAZITE JUNCTION BOX
- QUAZITE JUNCTION BOX
- AVI CABINET
- PROPOSED OR RESET LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION



ITEM 626.32 24" DIAMETER FOUNDATION

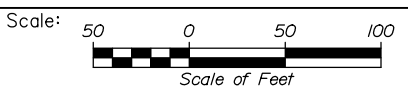
- STA. 295+83, 17' RT.
- STA. 298+50, 14' RT.
- STA. 300+00, 14' RT.
- STA. 301+50, 14' RT.
- STA. 303+25, 14' RT.
- STA. 420+00, 17' RT.
- STA. 422+42, 28' RT.
- STA. 1064+00, 61' RT.
- STA. 1064+25, 62' LT.
- STA. 1065+75, 59' RT.
- STA. 1065+75, 64' LT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD

- STA. 420+00, 17' RT.
- STA. 422+42, 28' RT.
- STA. 1064+00, 61' RT.
- STA. 1065+75, 59' RT.
- STA. 1065+75, 64' LT.

ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE

- STA. 295+83, 17' RT.
- STA. 298+50, 14' RT.
- STA. 300+00, 14' RT.
- STA. 301+50, 14' RT.
- STA. 303+25, 14' RT.
- STA. 1064+25, 62' LT.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
POWER AND COMMUNICATION
PLANS (6 OF 7)

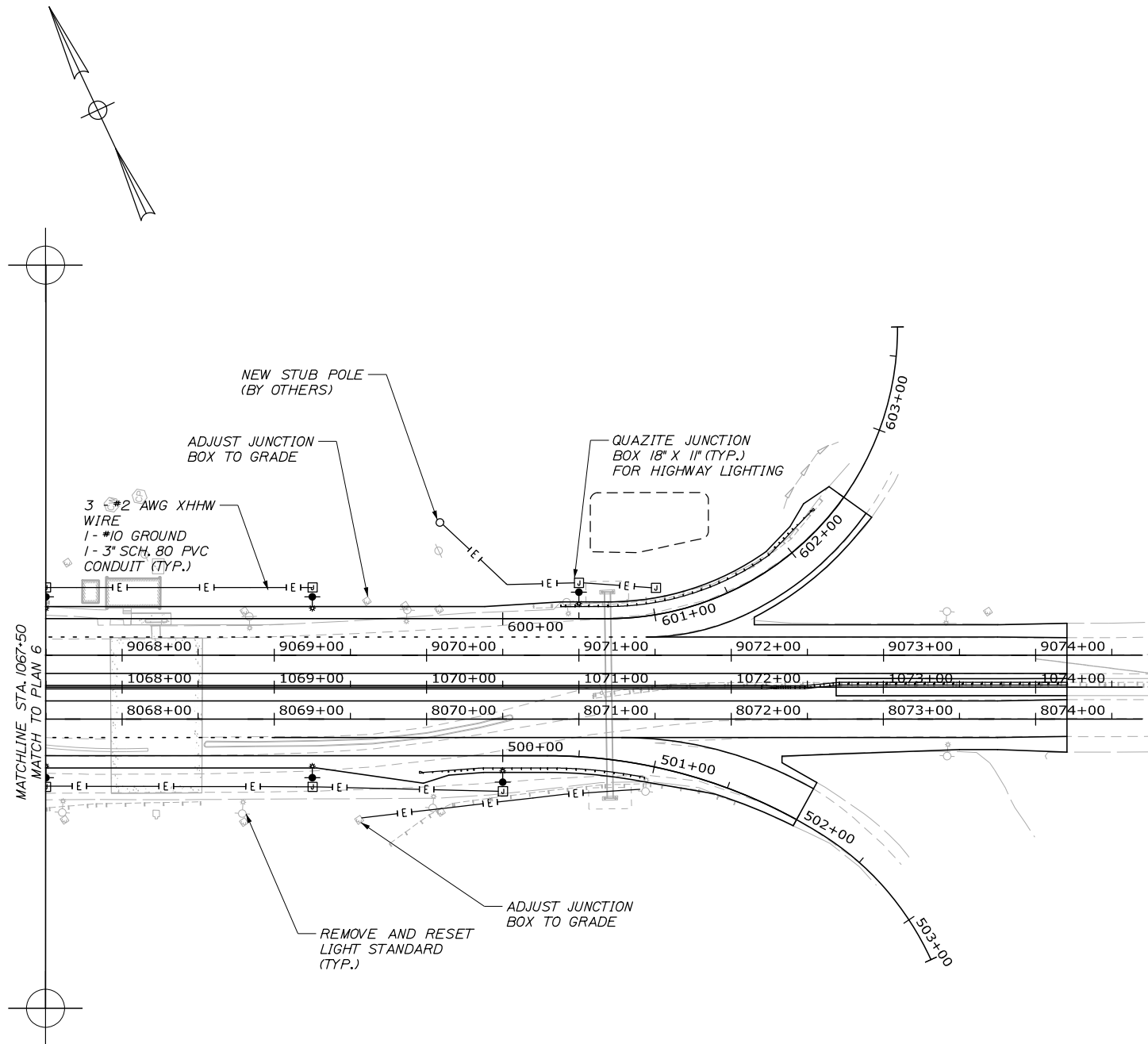
SHEET NUMBER: CP-06

CONTRACT: 2021.07

121 OF 431

Date: 1/14/2021

- LEGEND**
- EC — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TOLL SYSTEM
 - EI — HIGHWAY LIGHTING CONDUIT
 - OE — PERMANENT OVERHEAD ELECTRIC INSTALLED BY OTHERS
 - TI — ELECTRICAL/COMMUNICATIONS CONDUIT FOR TRAFFIC SIGNAL
 - ELECTRICAL/COMMUNICATIONS QUAZITE JUNCTION BOX
 - QUAZITE JUNCTION BOX
 - AVI CABINET
 - PROPOSED OR RESET LIGHT STANDARD ON 24" Ø CONCRETE FOUNDATION

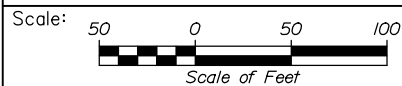


ITEM 626.32 24" DIAMETER FOUNDATION

STA. 500+00, 17' RT. STA. 1069+25, 59' LT.
 STA. 600+50, 17' LT. STA. 1067+50, 59' RT.
 STA. 1067+50, 59' LT. STA. 1069+25, 59' RT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD

STA. 500+00, 17' RT. STA. 1069+25, 59' LT.
 STA. 600+50, 17' LT. STA. 1067+50, 59' RT.
 STA. 1067+50, 59' LT. STA. 1069+25, 59' RT.



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

**EXIT 45
 INTERCHANGE RECONFIGURATION
 POWER AND COMMUNICATION
 PLANS (7 OF 7)**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	09\20	Checked JRH 09\20
Drawn	AJS	09\20	In Charge of RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: CP-07

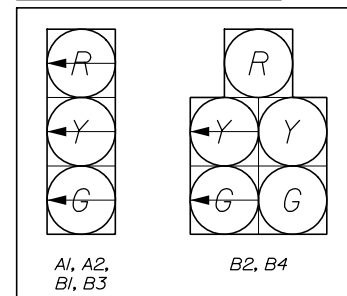
122 OF 431

Filename: OXX_Communications_Plan_7.dgn

LIST OF MAJOR ITEMS

EQUIPMENT AND WORK ITEMS	QUANTITY
INSTALL MTA PROVIDED GROUND MOUNTED SIGNAL CABINET. THE MTA PROVIDED SIGNAL CABINET WILL CONTAIN ALL NEEDED EQUIPMENT FOR THE OPERATION OF THE SIGNAL, INCLUDING SIGNAL CONTROLLER, CMU AND ALL OTHER ANCILLARY EQUIPMENT.	1
FURNISH AND INSTALL 3 - #2 AWG CONDUCTOR CABLES FOR SIGNAL POWER AND GROUND FROM SB ON TOLL PLAZA.	2250 LF
FURNISH AND INSTALL 3- AND 5-SECTION 12-INCH YELLOW SIGNAL HEADS WITH LED MODULES WITH TUNNEL VISORS AND RETROREFLECTIVE BACKPLATES MOUNTED ON SPAN WIRE. SIGNAL HEAD WIRING WILL BE ALL NEW WIRING WITH CONTINUOUS WIRING FROM CABINET TO SPLICE BOOT.	6
FURNISH AND INSTALL NEW SIGNAL CABLE.	LS
FURNISH AND INSTALL 36"x24" QUARTZITE JUNCTION BOX (ITEM 626.121)	1
FURNISH AND INSTALL NON-METALLIC CONDUIT.	2,000 LF
FURNISH AND INSTALL NEW LED LUMINAIRE PER STANDARD SPECIFICATION 634.231	2
INSTALL 24" FOUNDATION FOR GROUND MOUNTED SIGNAL CABINET.	1
INSTALL MTA PROVIDED OPTICOM PREEMPTION SYSTEM WITH 2 CONFIRMATION STROBES AND RECEIVERS.	1
POWER FOR THE LUMINAIRE SHALL COME FROM SIGNAL CABINET.	

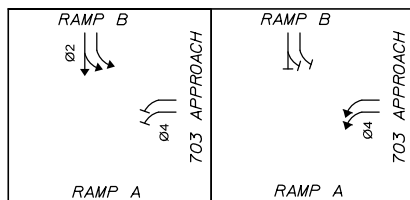
PROPOSED SIGNALS



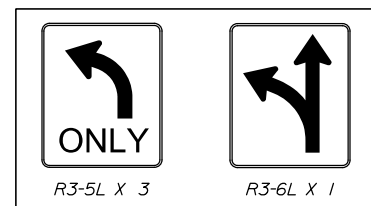
SIGNAL PLAN LEGEND

	Existing	Proposed
Wood Pole		
Luminaire		
Guardrail		
Splice Boot		
Video Detection Camera		
Pole Mounted Controller Cabinet		
3" Schedule 80 Conduits (Traffic)		
3" Schedule 80 Conduits (Power)		
Span Wire		
Detection Zone		
Preemption Receiver		
Preemption Confirmation Strobe		
Mast Arm or Span Wire Mounted Sign		
Signal Head		
Junction Box		
Overhead Wires		
Guy Wire		

SIGNAL PHASING SEQUENCE



PROPOSED OVERHEAD SIGNS



SCHEDULE

	MON-FRI	SAT-SUN
MAX 1	12a-12a	12a-12a
MAX 2	-	-

PREEMPTION OPERATION

ID	PREEMPTION ASSIGNMENT	ACTIVE PHASE
R1	1	Ø4
R2	2	Ø2

PROPOSED SIGNAL TIMING TABLE

PHASE	RAMP B & ROUTE 703								
	1	2	3	4	5	6	7	8	9
INITIAL GREEN	-	5.0	-	5.0	-	-	-	-	-
VEHICLE EXTENSION	-	3.0	-	3.0	-	-	-	-	-
MAXIMUM 1	-	25.0	-	37.0	-	-	-	-	-
MAXIMUM 2	-	-	-	-	-	-	-	-	-
YELLOW	-	4.0	-	4.0	-	-	-	-	-
ALL RED	-	2.0	-	2.0	-	-	-	-	-
FLASH	-	Y	-	R	-	-	-	-	-
RECALL	-	S	-	NONE	-	-	-	-	-
DETECTOR	-	PR	-	PR	-	-	-	-	-
PREEMPTION PRIORITY	-	2	-	1	-	-	-	-	-

NOTES:
 S = SOFT RECALL
 R = RED
 Y = YELLOW
 PR = PRESENCE

DETECTOR SCHEDULE

PLAN ID	DETECTOR STREET	DIRECTION	LANE	PHASE
1				
2	EXIT 45/RAMP B	EB/SB	LT 703/T RAMP A	2
3				
4	703	SB	LT RAMP A	4
5				
6				
7				
8				

INSTALL GUY WIRE INCIDENTAL TO TRAFFIC SIGNAL (TYP.)

WOOD POLE WITH LUMINAIRE

PREEMPTION (TYP.)

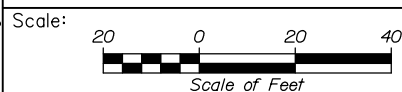
SPLICE BOOT (TYP.)

VIDEO DETECTION CAMERA (TYP.)

GROUND MOUNTED CONTROLLER CABINET ON 24" FOUNDATION

WOOD POLE

2-3" SCHEDULE 80 CONDUITS TO TOLL ADMINISTRATION BUILDING



Designed by:



HNTB CORPORATION
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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 45
 INTERCHANGE RECONFIGURATION
 SIGNAL PLAN

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
No.	Revision	By	Date	By	Date
Designed	RBM	09\20	Checked	ARG	09\20
Drawn	DB	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

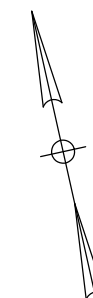
CONTRACT:2021.07

SHEET NUMBER: SGN-01

123 OF 431

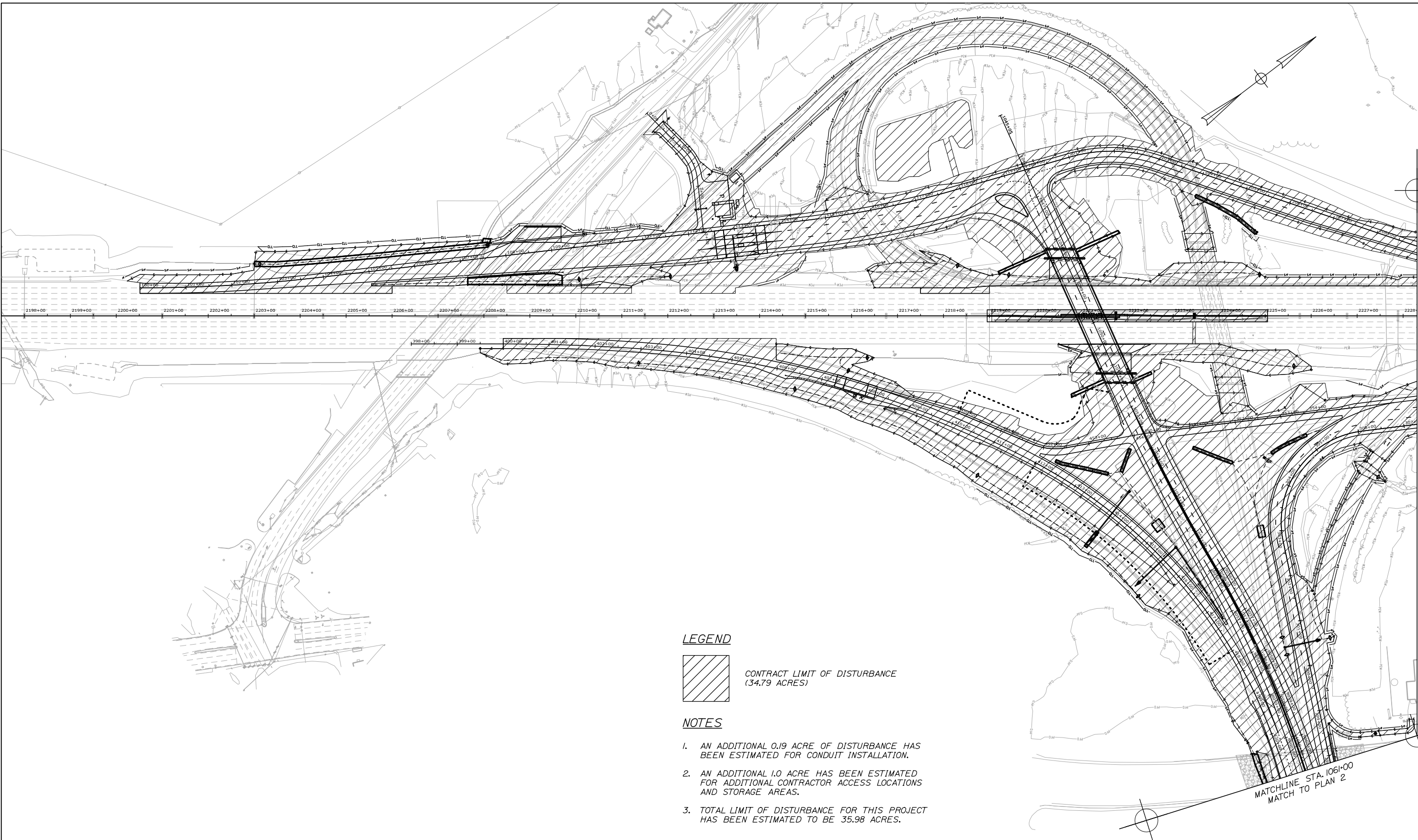
Date:1/14/2021

Filename: 0XX_Diamond_SignalPlan 1.dgn



NOTE:
 POWER WIRING FROM THE TOLL BUILDING TO THE SIGNAL CABINET SHALL BE INCIDENTAL TO THE NON-METALLIC CONDUIT ITEM 626.22 AND HORIZONTAL DIRECTIONAL DRILLED CONDUIT ITEM 626.223. ALL OTHER SIGNAL WIRING SHALL BE INCIDENTAL TO THE SIGNAL ITEM 643.80.

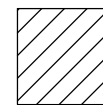
Date: 1/14/2021



MATCHLINE STA. 2229+00
MATCH TO PLAN 2

MATCHLINE STA. 1061+00
MATCH TO PLAN 2

LEGEND

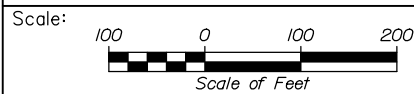


CONTRACT LIMIT OF DISTURBANCE
(34.79 ACRES)

NOTES

1. AN ADDITIONAL 0.19 ACRE OF DISTURBANCE HAS BEEN ESTIMATED FOR CONDUIT INSTALLATION.
2. AN ADDITIONAL 1.0 ACRE HAS BEEN ESTIMATED FOR ADDITIONAL CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.
3. TOTAL LIMIT OF DISTURBANCE FOR THIS PROJECT HAS BEEN ESTIMATED TO BE 35.98 ACRES.

Filename: 00X_LOD_Plan_01.dgn



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION**
LIMIT OF DISTURBANCE PLAN (1 OF 2)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	09\20	Checked JRH 09\20
Drawn	AJM	09\20	In Charge of RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

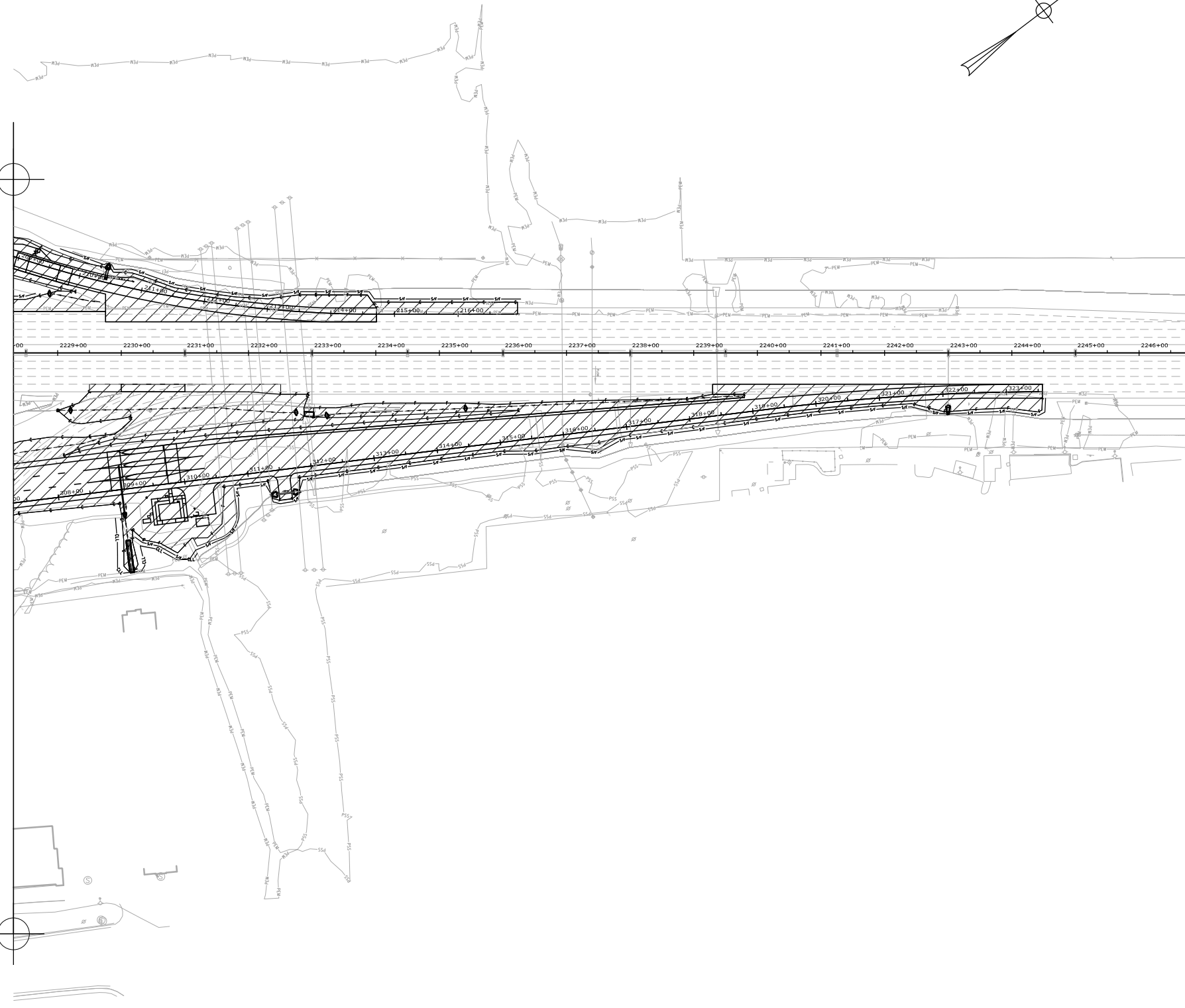
CONTRACT: 2021.07

SHEET NUMBER: LD-01

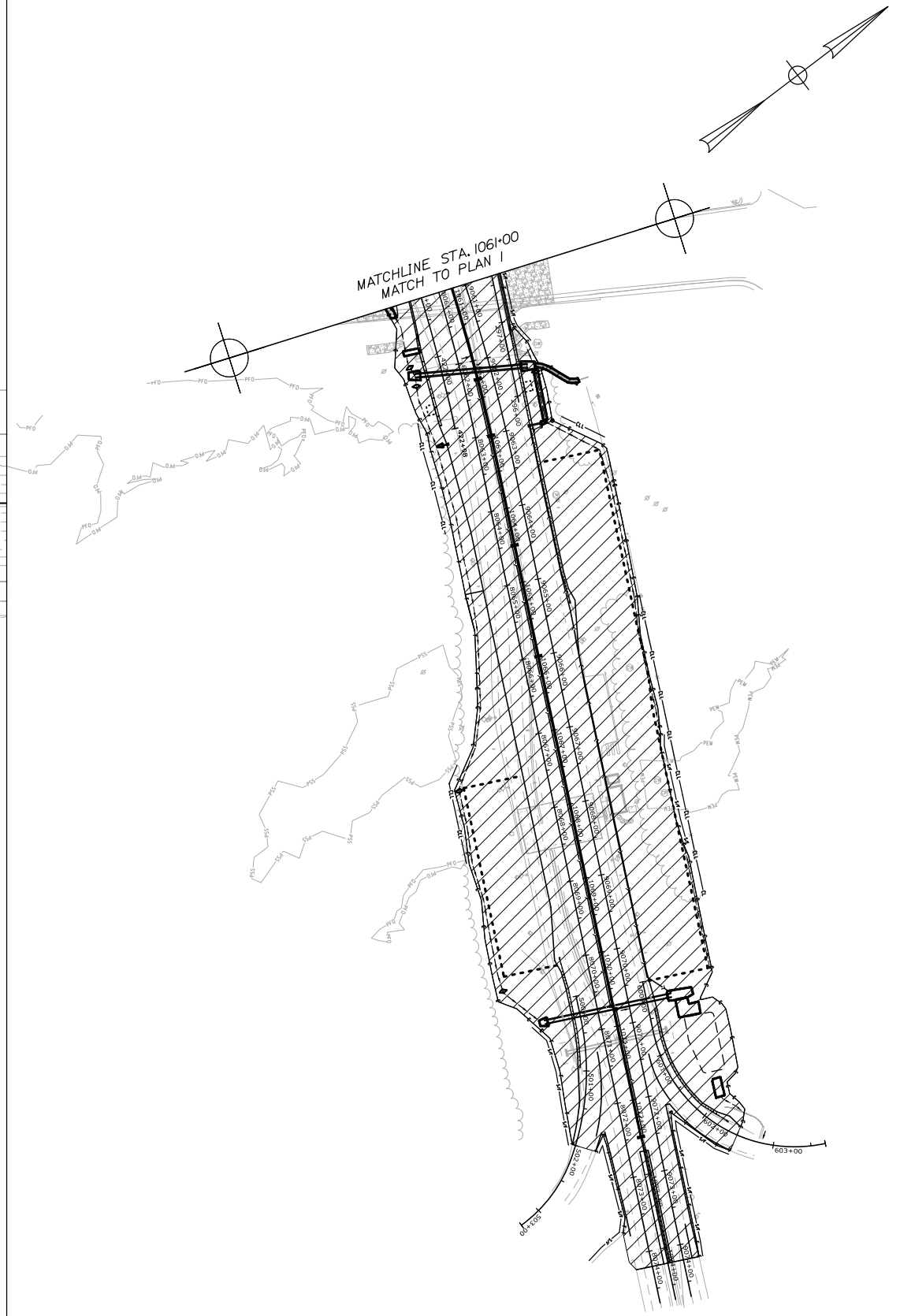
124 OF 431

Date: 1/14/2021

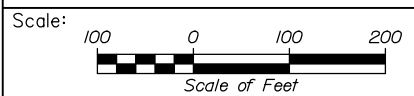
MATCHLINE STA. 2229+00
MATCH TO PLAN 1



MATCHLINE STA. 1061+00
MATCH TO PLAN 1



Filename: 00X_LOD_Plan_02.dgn



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
LIMIT OF DISTURBANCE PLAN (2 OF 2)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
Drawn	By	Date	In Charge of
	EDD	09\20	JRH
	AJM	09\20	RAL

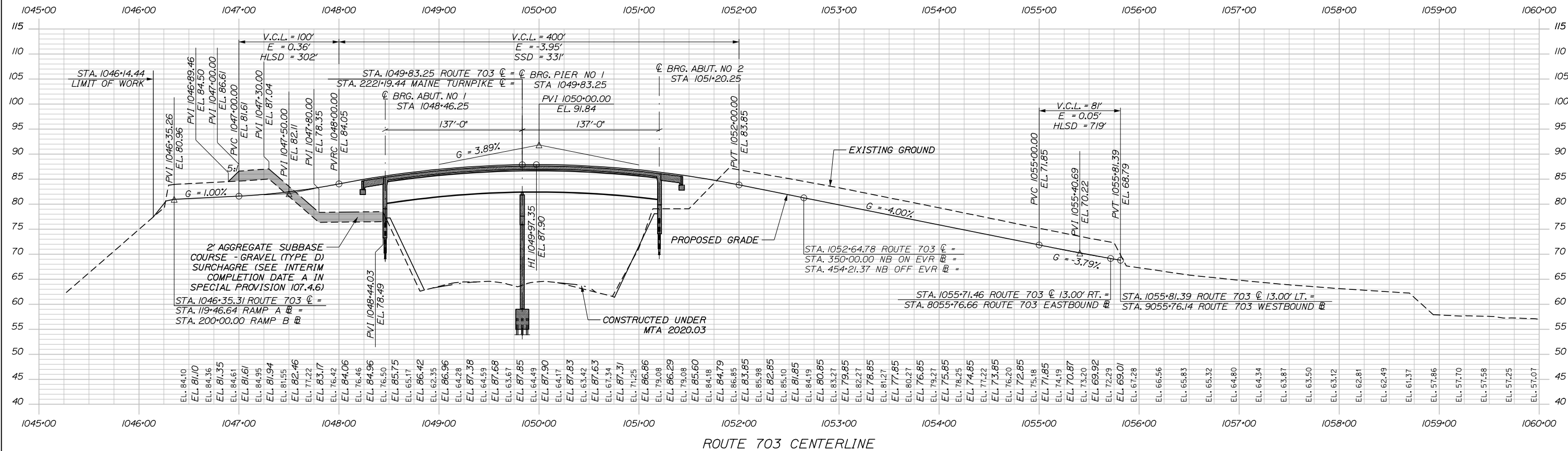
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

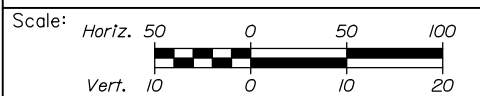
SHEET NUMBER: LD-02

125 OF 431

Date: 1/14/2021



Filename: 0XX_Profile_Diamond.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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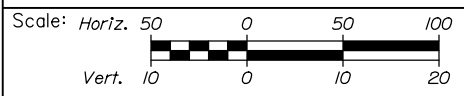
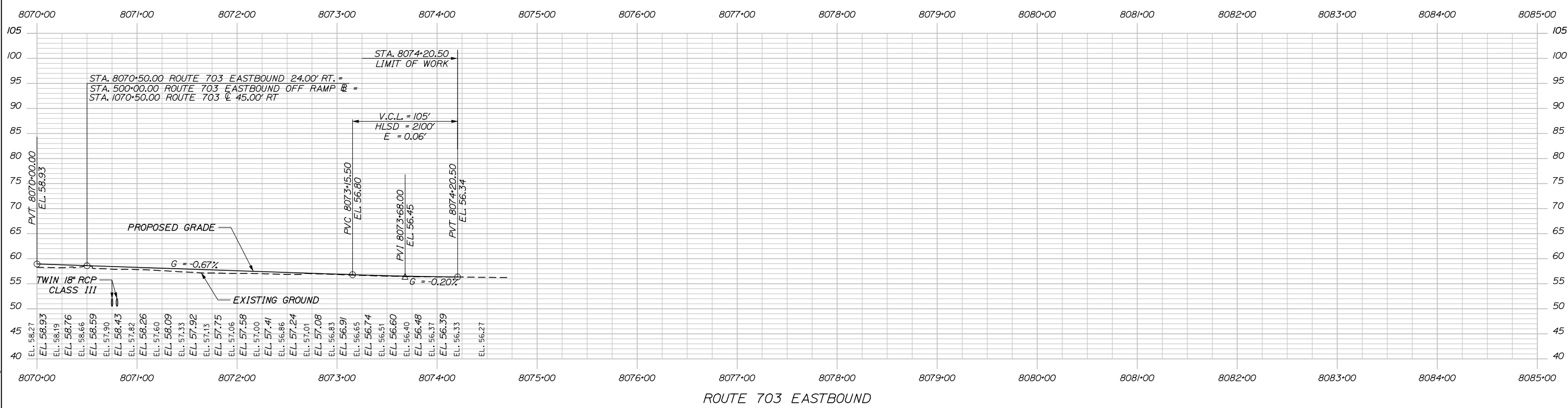
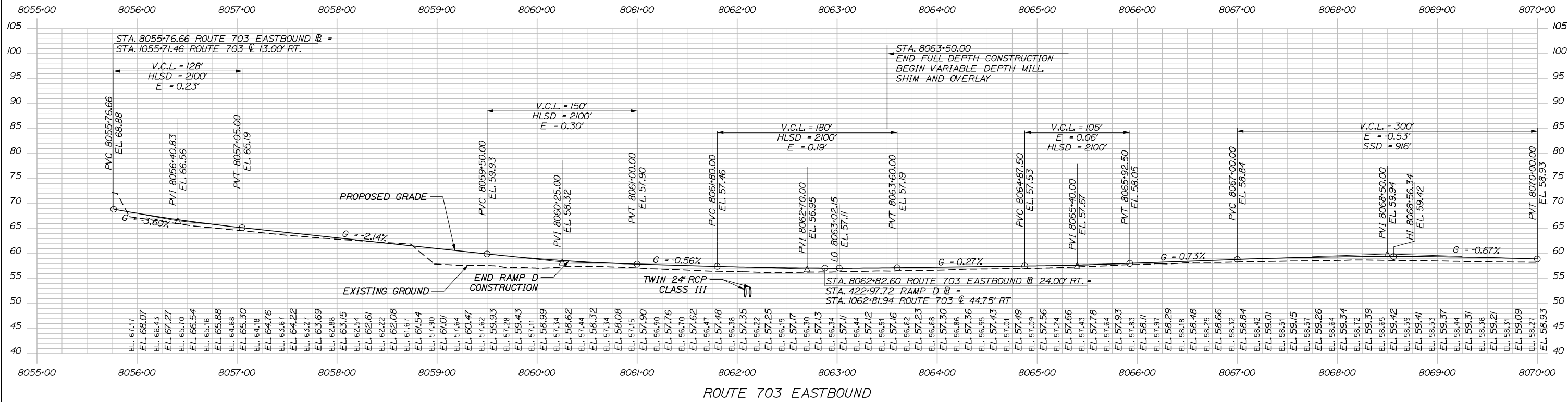
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION**

PROFILE - ROUTE 703 CENTERLINE

SHEET NUMBER: PR-01
CONTRACT: 2021.07
126 OF 431

Date: 1/14/2021



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

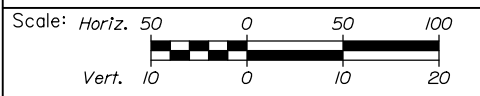
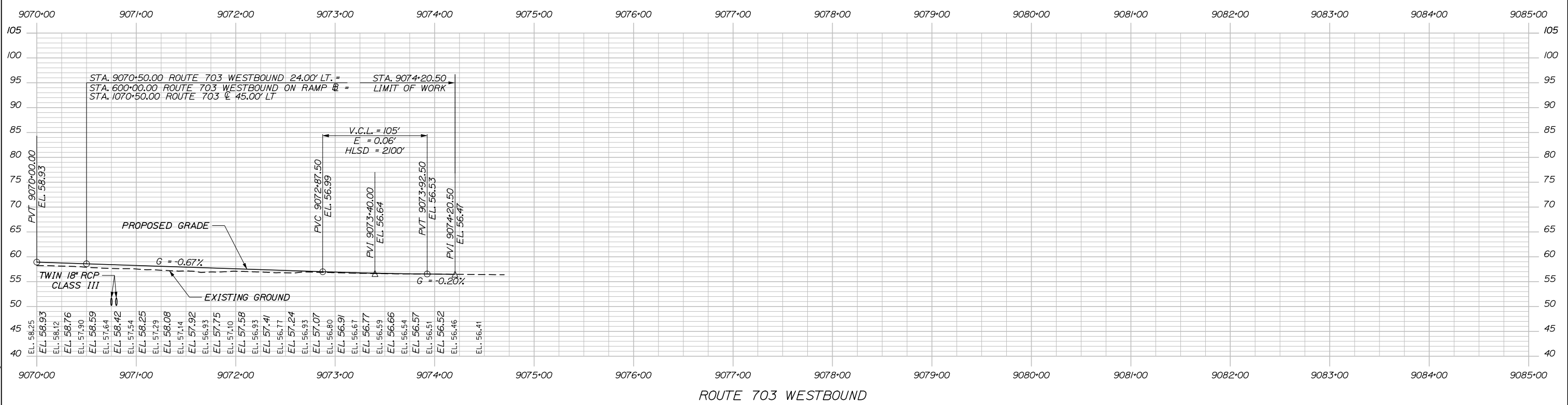
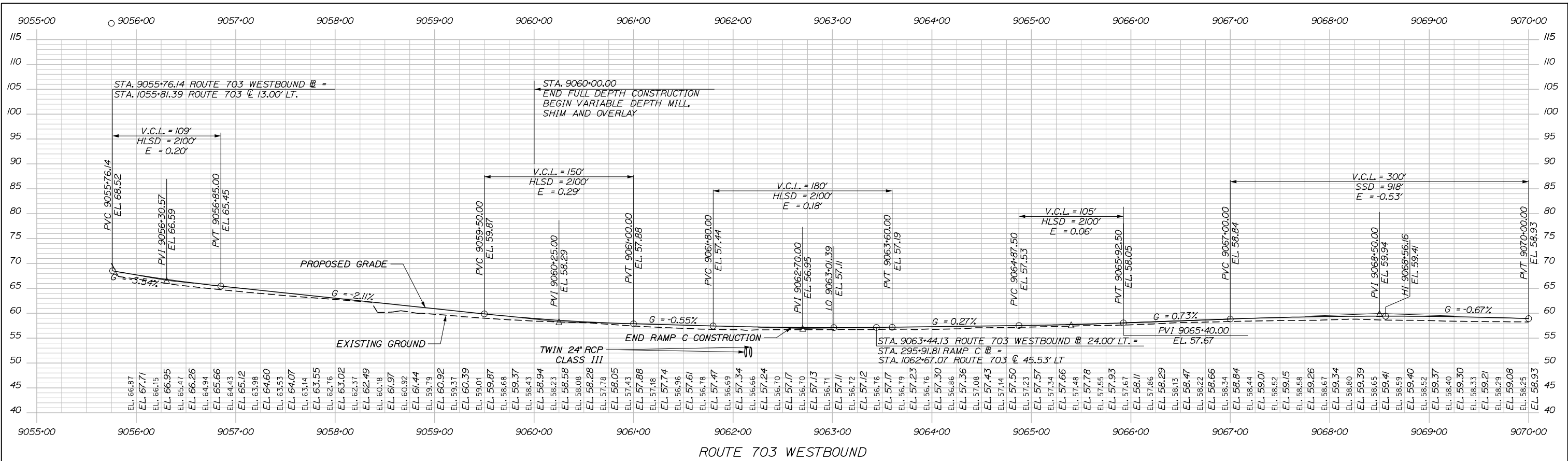
EXIT 45
 INTERCHANGE RECONFIGURATION
 PROFILE - ROUTE 703 EASTBOUND

SHEET NUMBER: PR-02
 127 OF 431

CONTRACT: 2021.07

Filename: 0XX_Profile_703 Eastbound.dgn

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

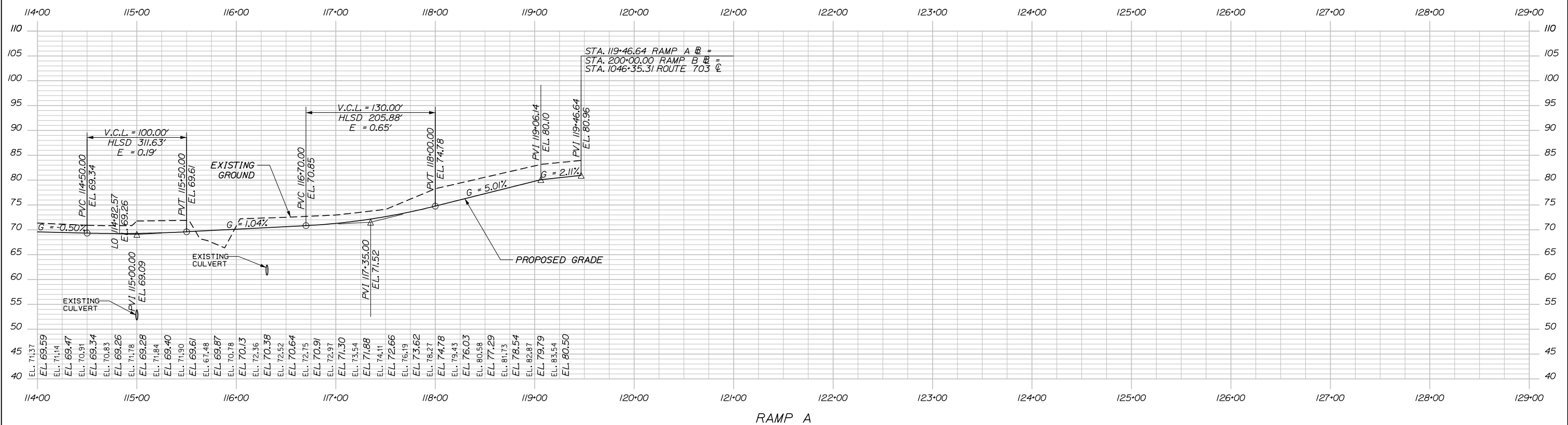
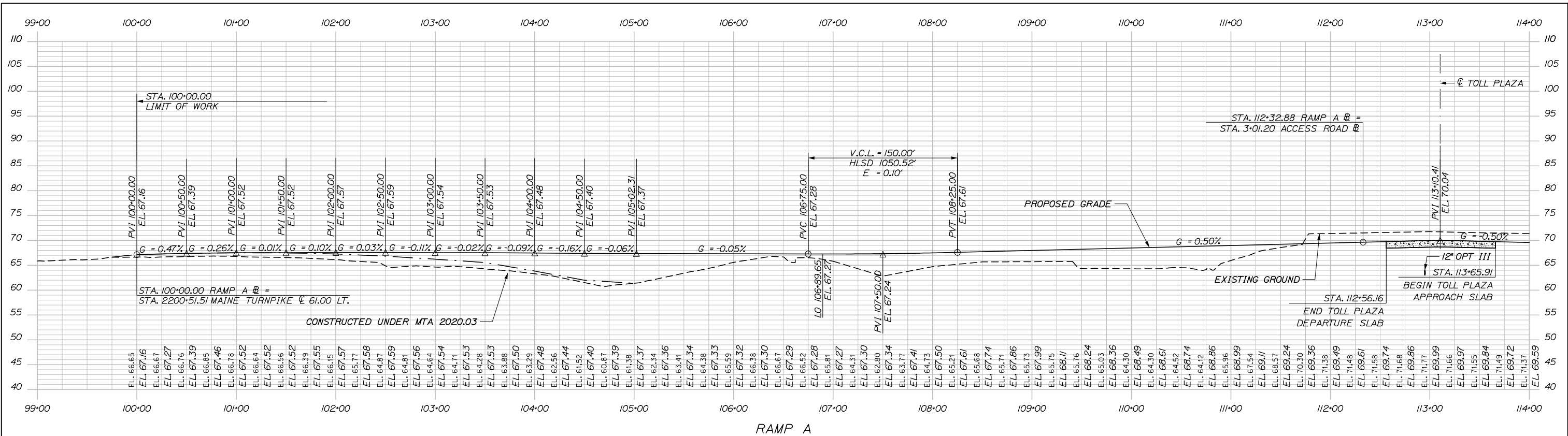
**EXIT 45
 INTERCHANGE RECONFIGURATION**

PROFILE - ROUTE 703 WESTBOUND

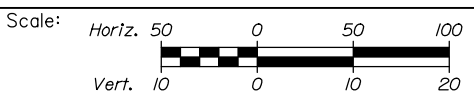
SHEET NUMBER: PR-03
 CONTRACT: 2021.07
 128 OF 431

Filename: OXX_Profile_703 Westbound.dgn

Date: 1/14/2021



Filename: 0XX_Profile_SB_On.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

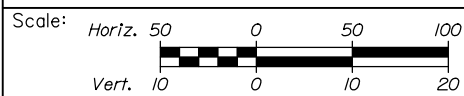
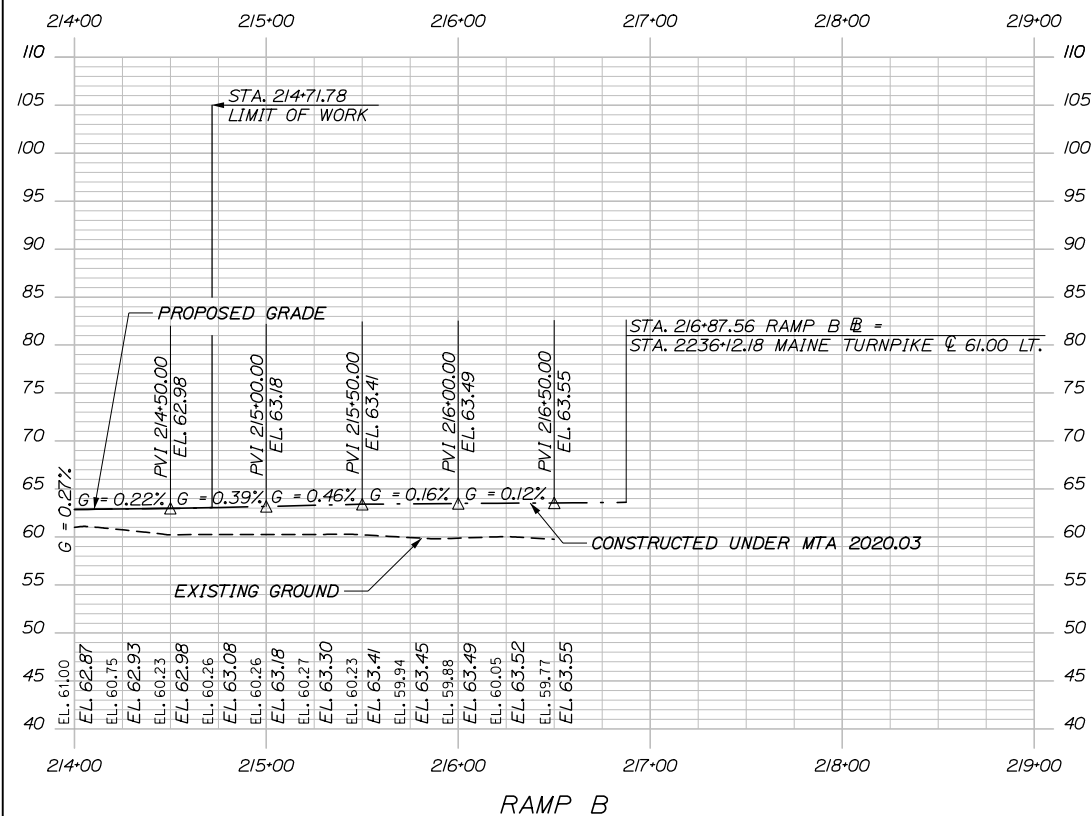
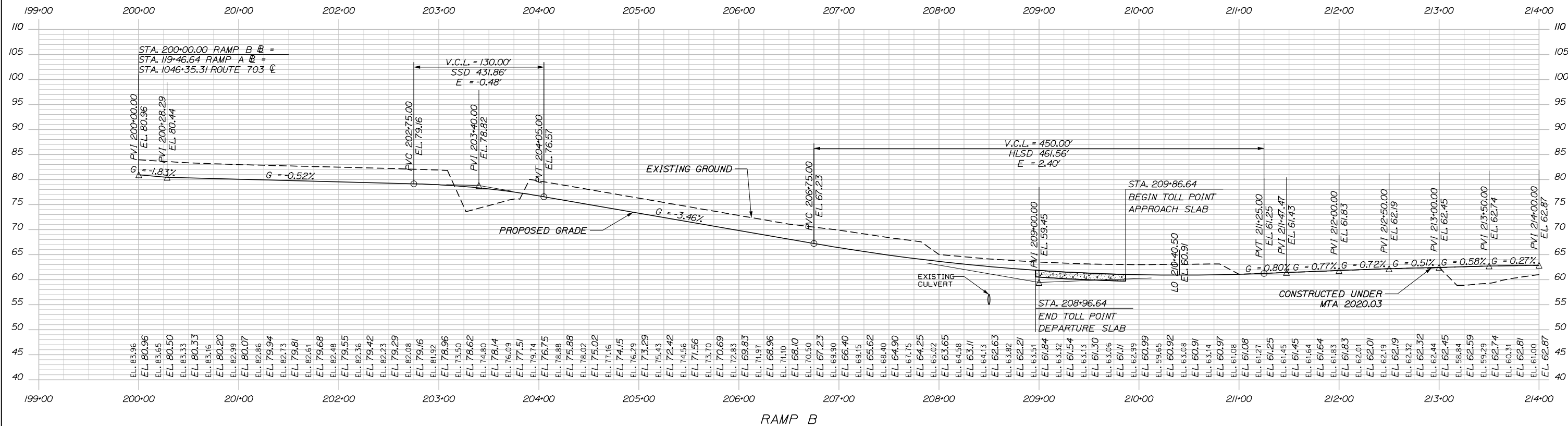
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 PROFILE - RAMP A

SHEET NUMBER: PR-04
 129 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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EXIT 45
 INTERCHANGE RECONFIGURATION
 PROFILE - RAMP B

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

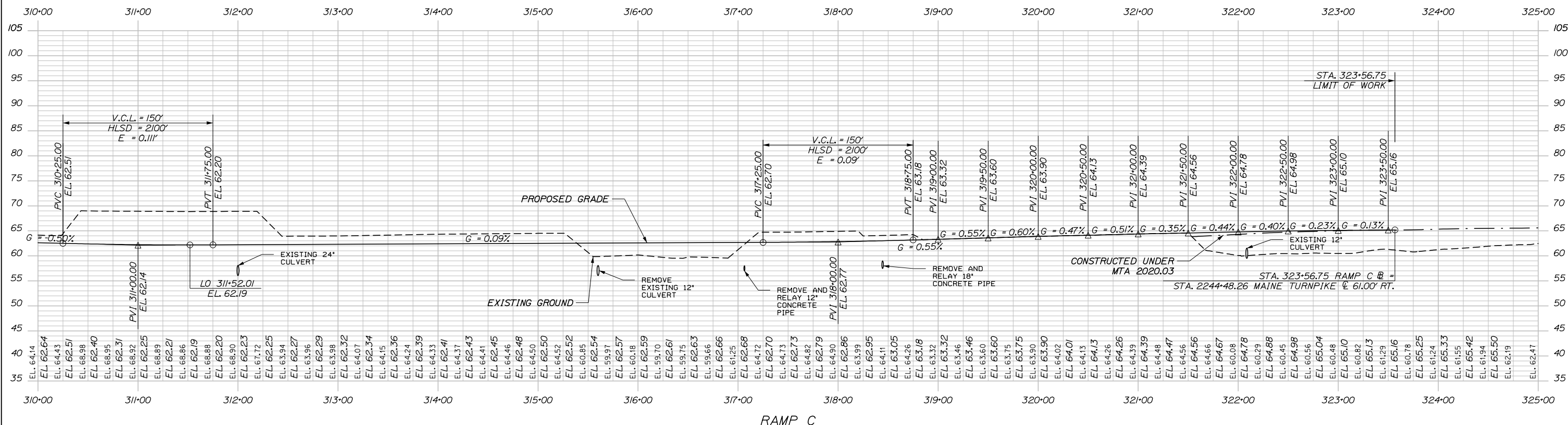
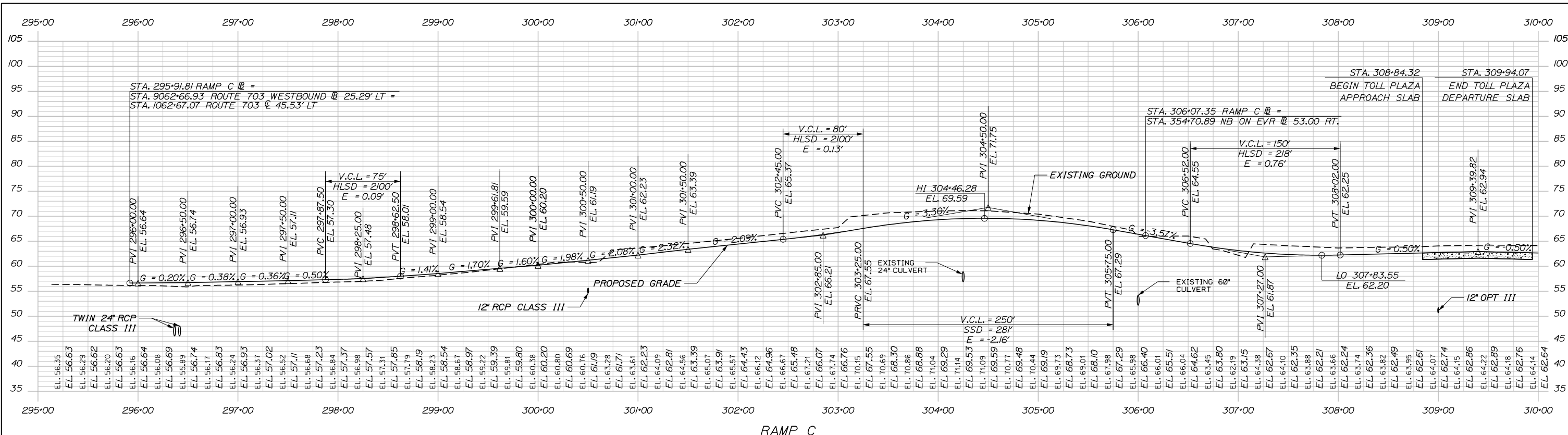
CONTRACT: 2021.07

SHEET NUMBER: PR-05

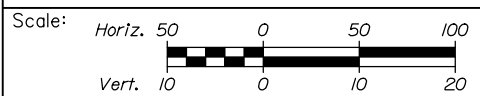
130 OF 431

Filename: 0XX_Profile_SB_Off.dgn

Date: 1/14/2021



Filename: 0XX_Profile_NB_On.dgn



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EXIT 45
INTERCHANGE RECONFIGURATION
PROFILE - RAMP C

No.	Revision	By	Date

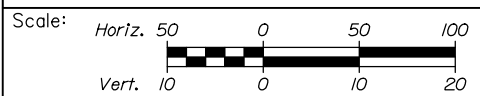
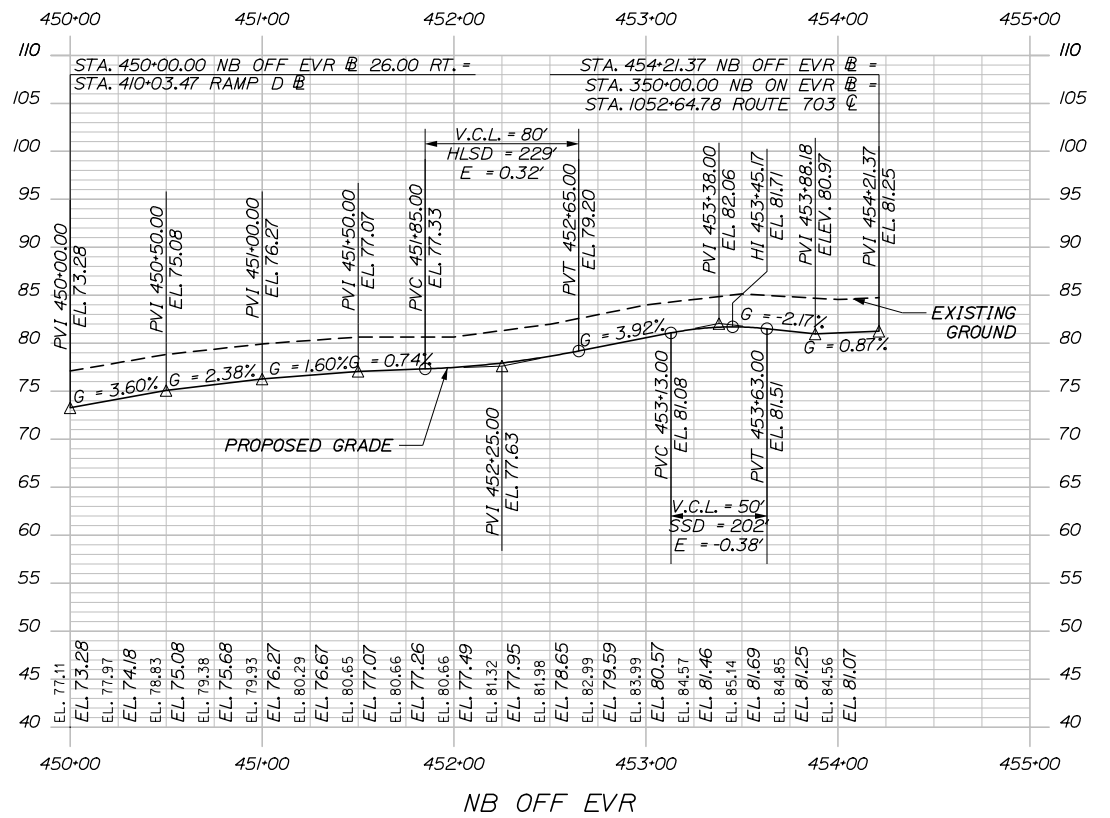
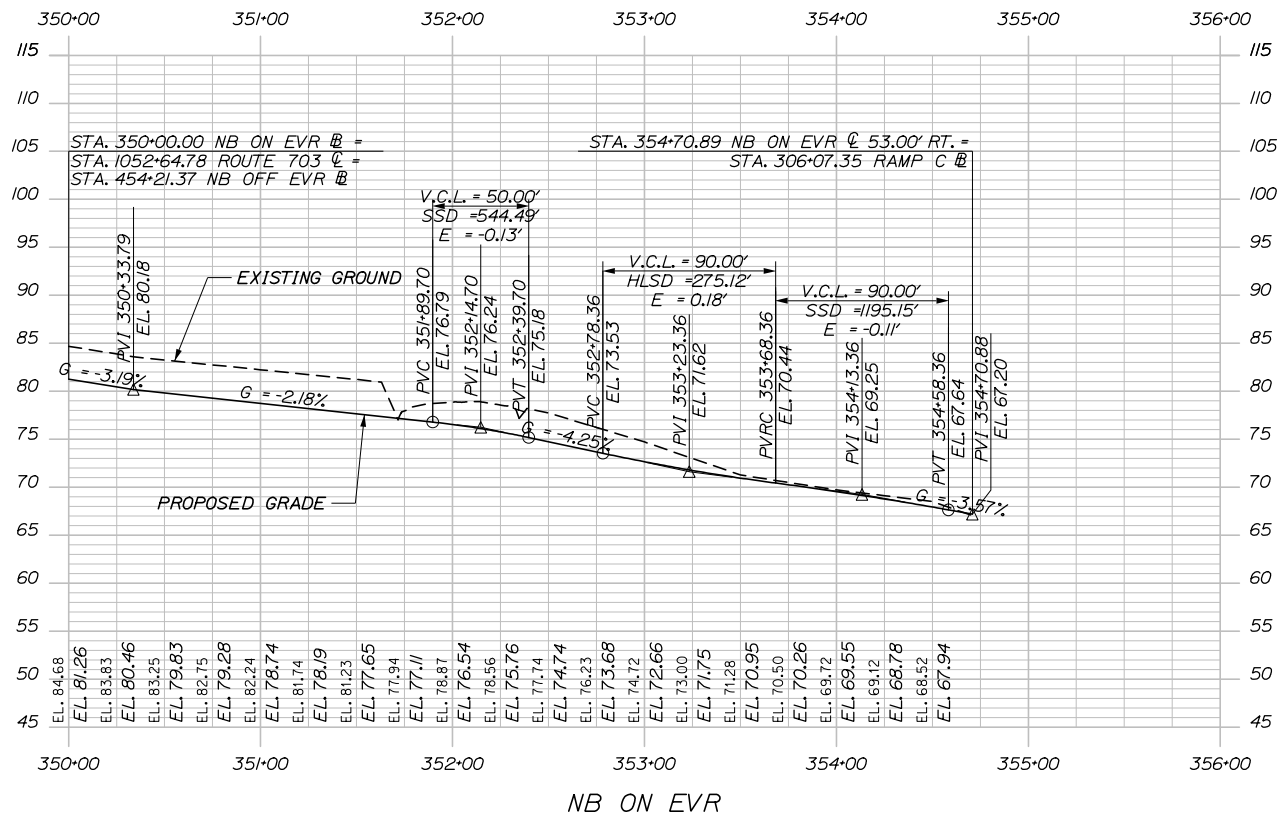
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: PR-06

131 OF 431



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

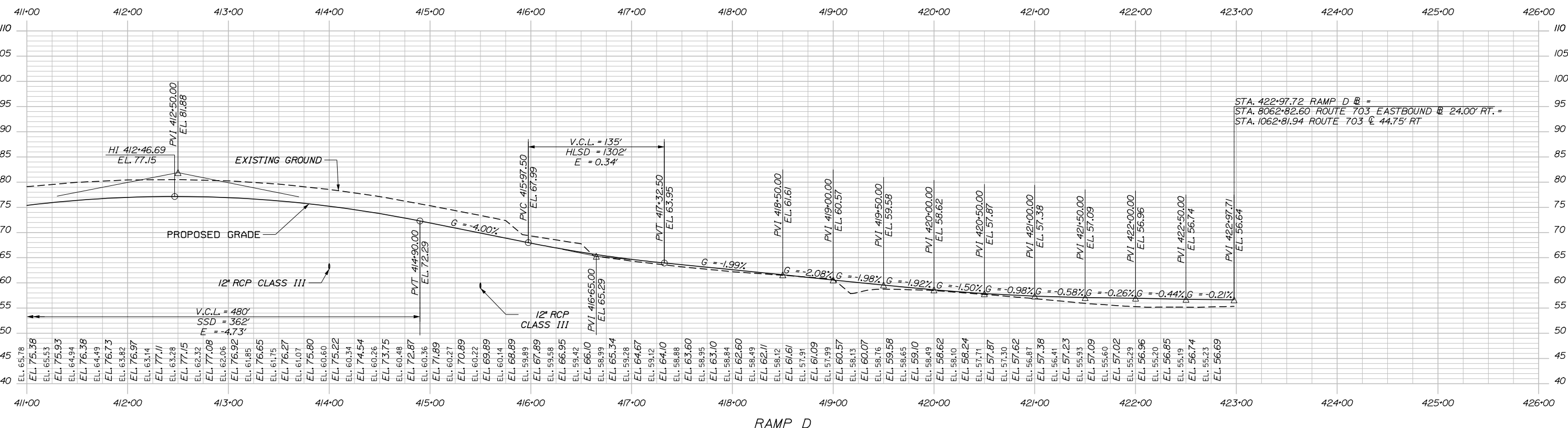
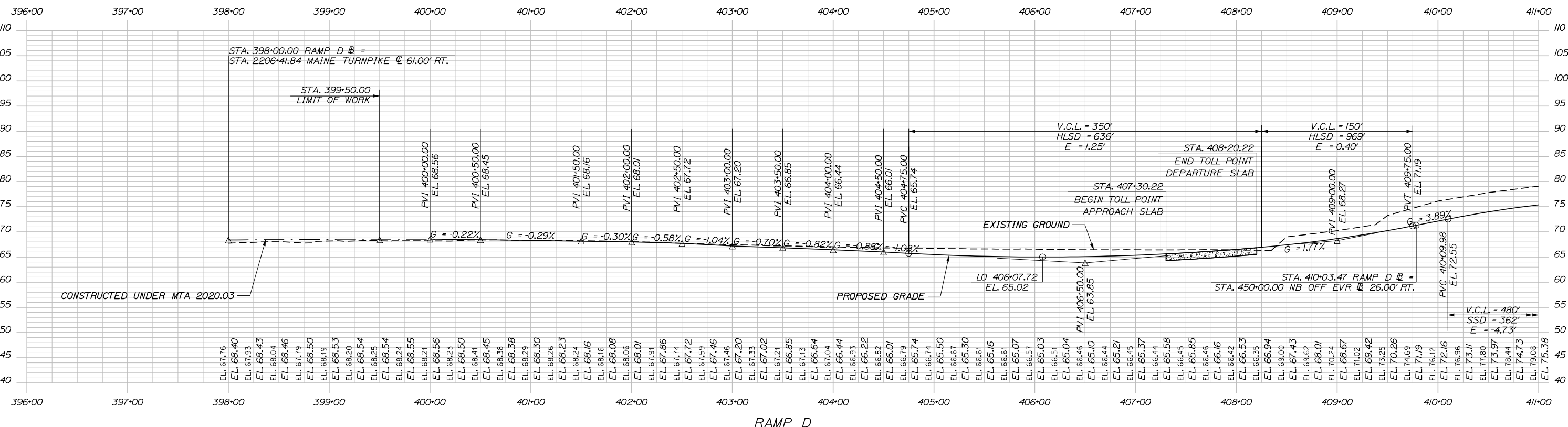
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION**

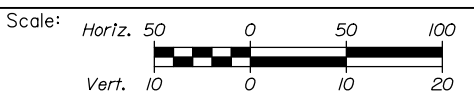
PROFILE - NB ON EVR & NB OFF EVR

SHEET NUMBER: PR-07
 CONTRACT: 2021.07
 132 OF 431

Date: 1/14/2021



Filename: 0XX_Profile_NB_Off.dgn



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION

PROFILE - RAMP D

No.	Revision	By	Date

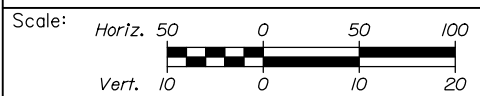
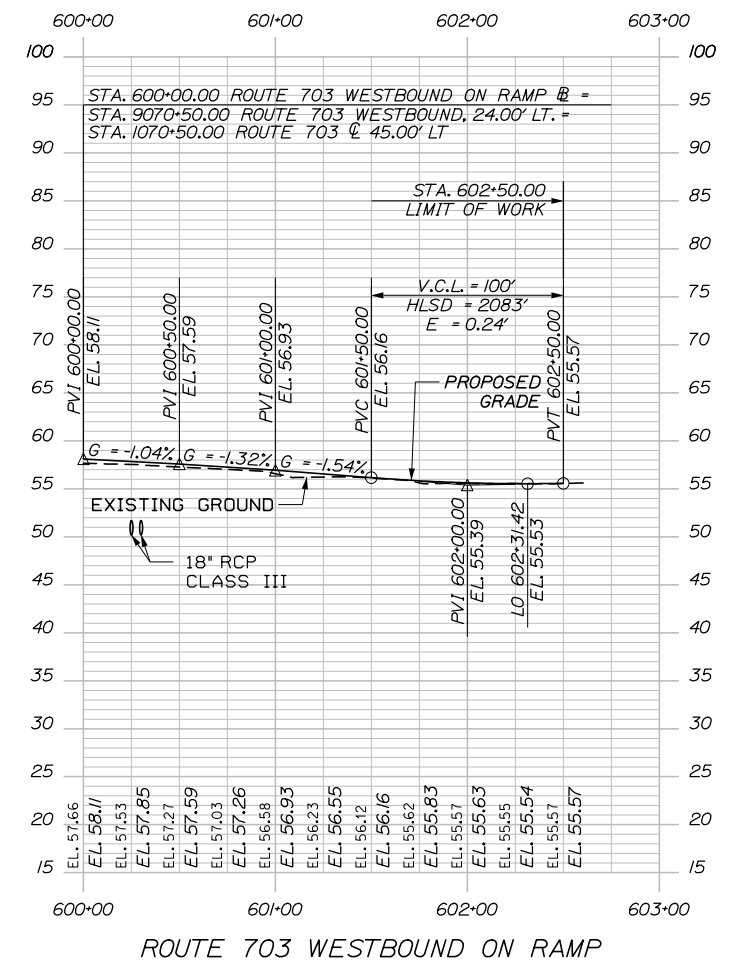
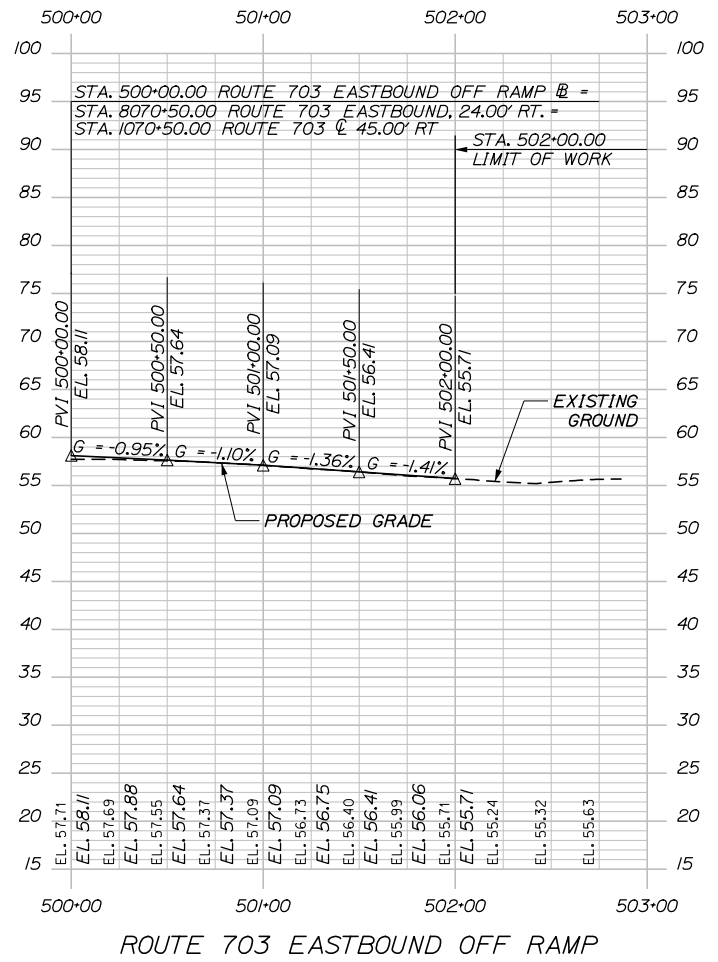
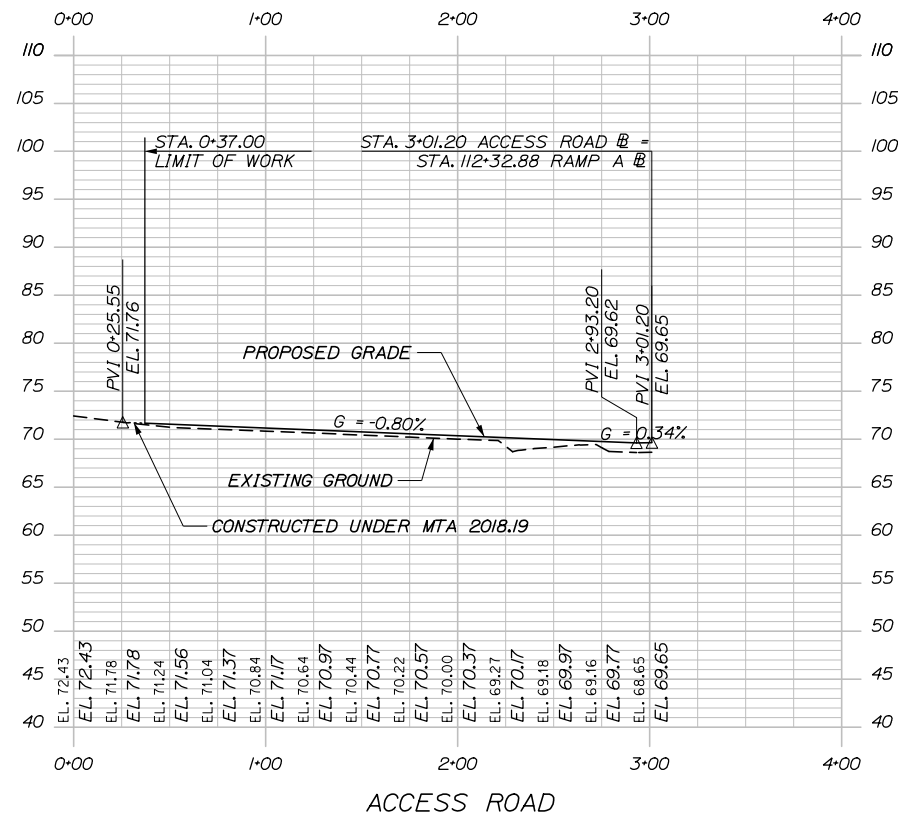
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: PR-08

133 OF 431



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	SLS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

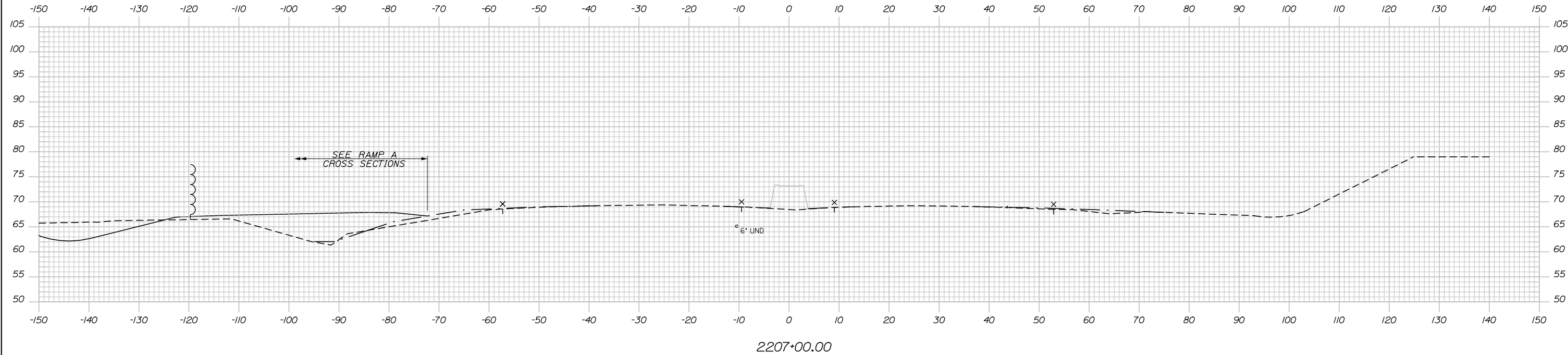
**EXIT 45
 INTERCHANGE RECONFIGURATION
 PROFILE - ACCESS ROAD AND
 ROUTE 703 RAMPS**

CONTRACT: 2021.07

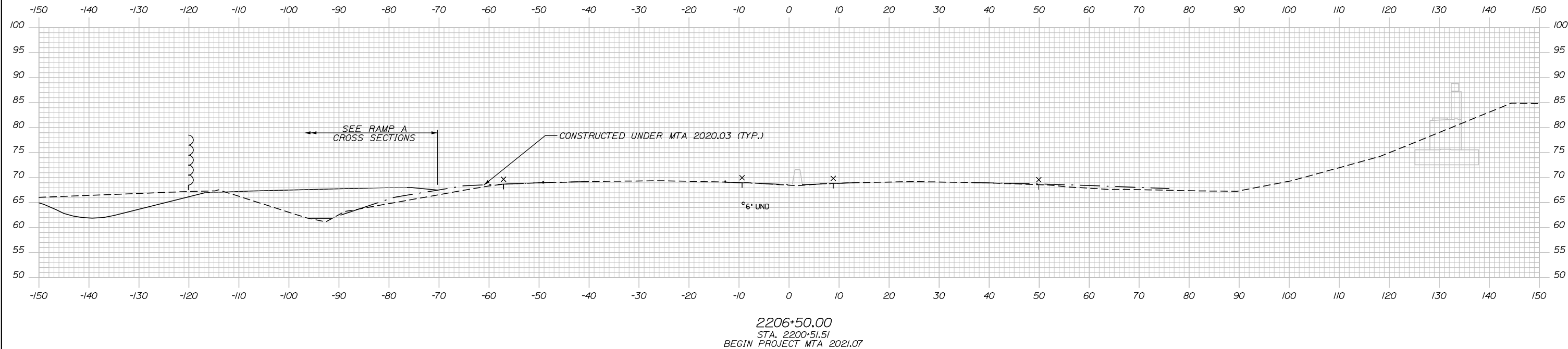
SHEET NUMBER: PR-09

134 OF 431

Date: 1/14/2021

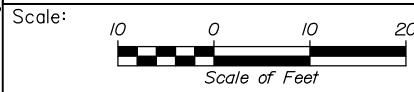


2207+00.00



2206+50.00
 STA. 2200+51.51
 BEGIN PROJECT MTA 2021.07

Filename: Xsect - Mainline.dgn



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THE GOLD STAR
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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - MAINLINE
 STA. 2206+50 TO STA. 2207+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
Drawn	By	Date	In Charge of
	EDD	09\20	JRH
	AJS	09\20	RAL

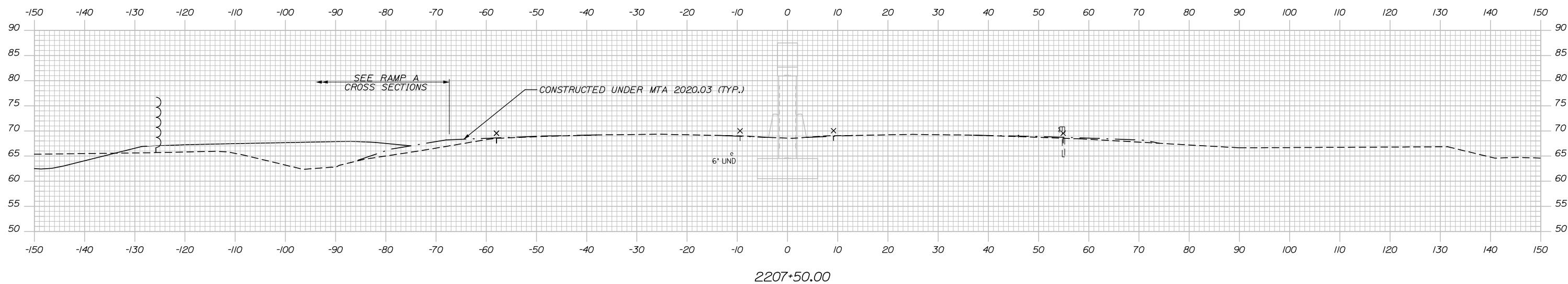
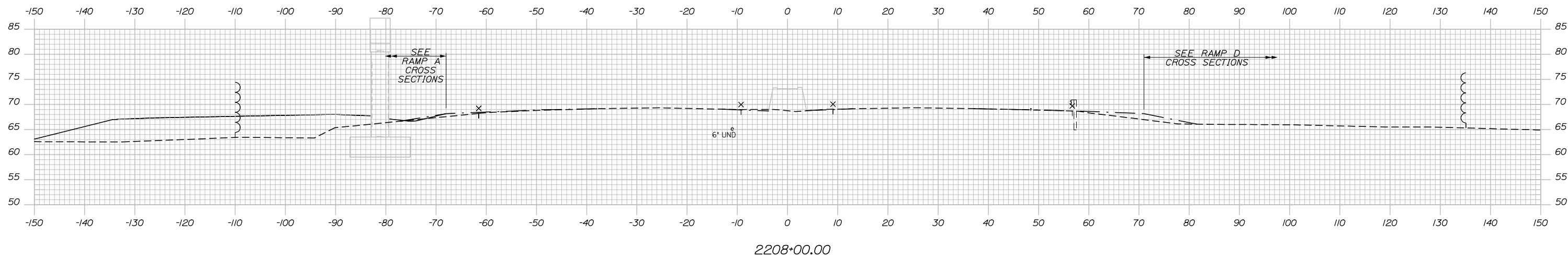
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: XS-01

135 OF 431

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

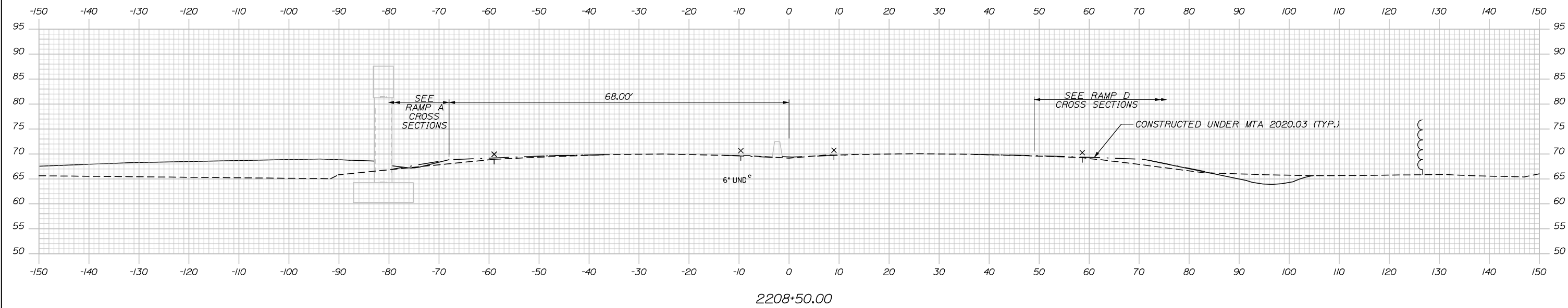
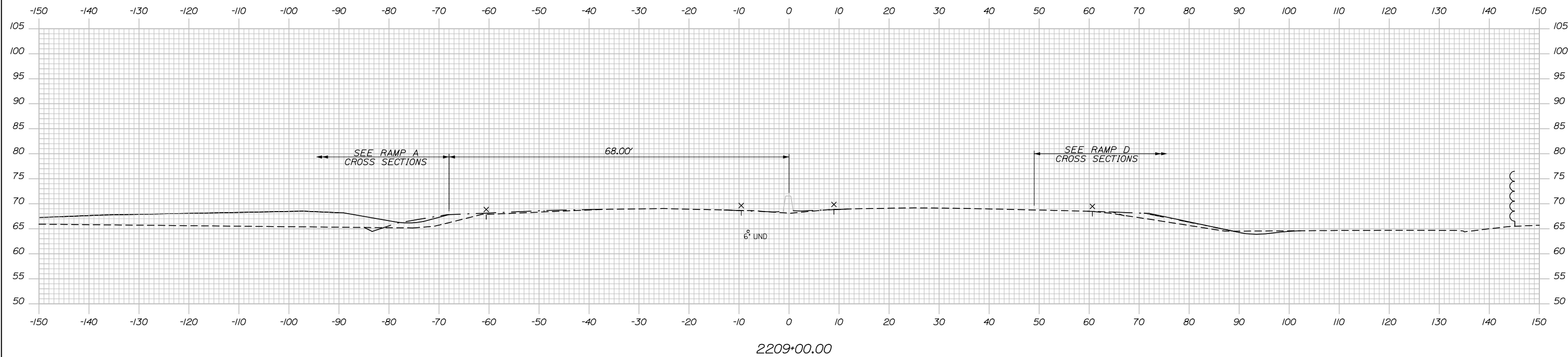
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – MAINLINE
 STA. 2207+50 TO STA. 2208+00

SHEET NUMBER: XS-02
 CONTRACT: 2021.07
 136 OF 431

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

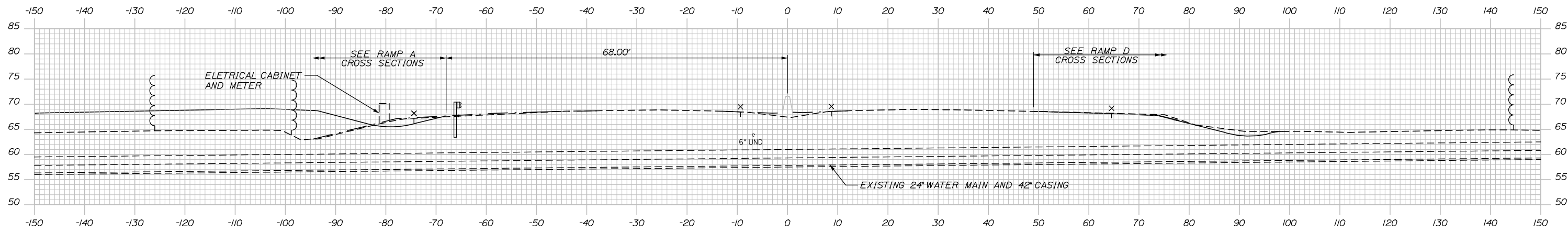
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – MAINLINE
 STA. 2208+50 TO STA. 2209+00

SHEET NUMBER: XS-03
 137 OF 431

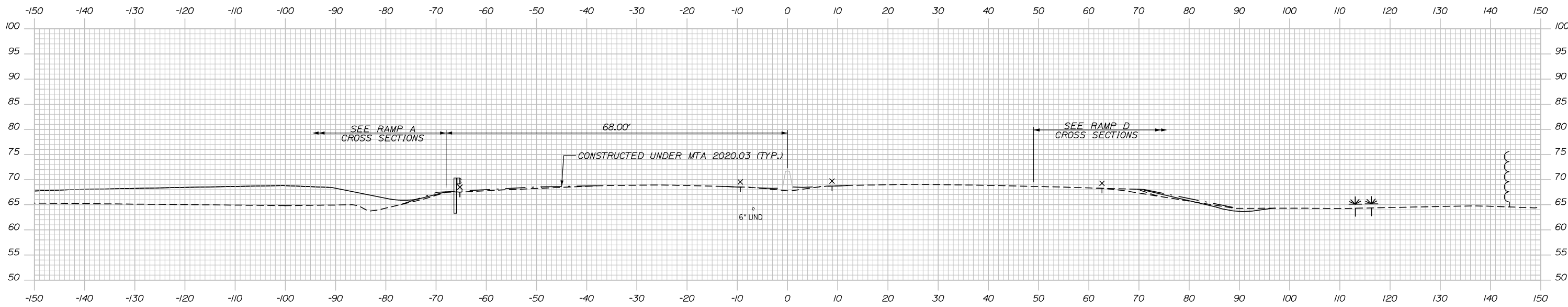
CONTRACT: 2021.07

Date: 1/14/2021

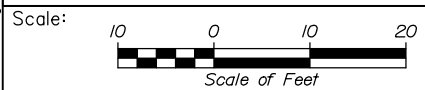
C= 54.4 CY



2210+00.00



2209+50.00



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THE GOLD STAR
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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – MAINLINE
 STA. 2209+50 TO STA. 2210+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By: EDD	Date: 09\20	Checked: JRH
Drawn	By: AJA	Date: 09\20	In Charge of: RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

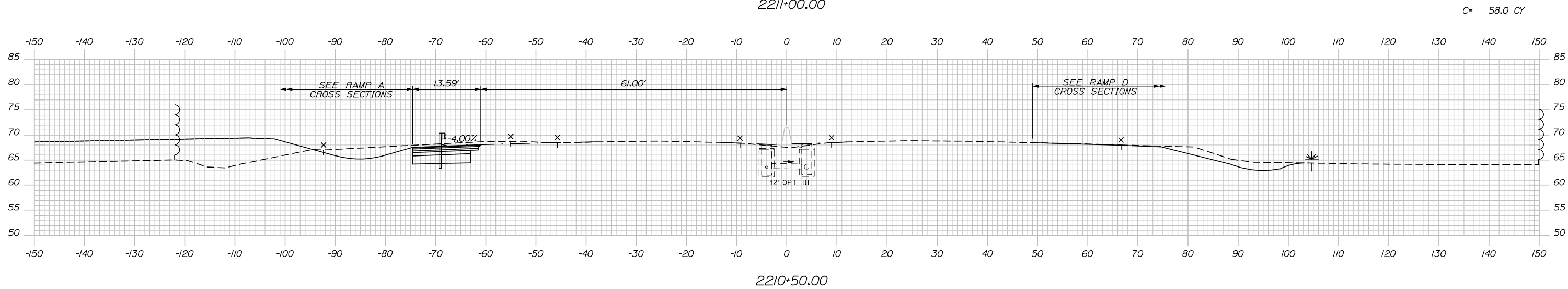
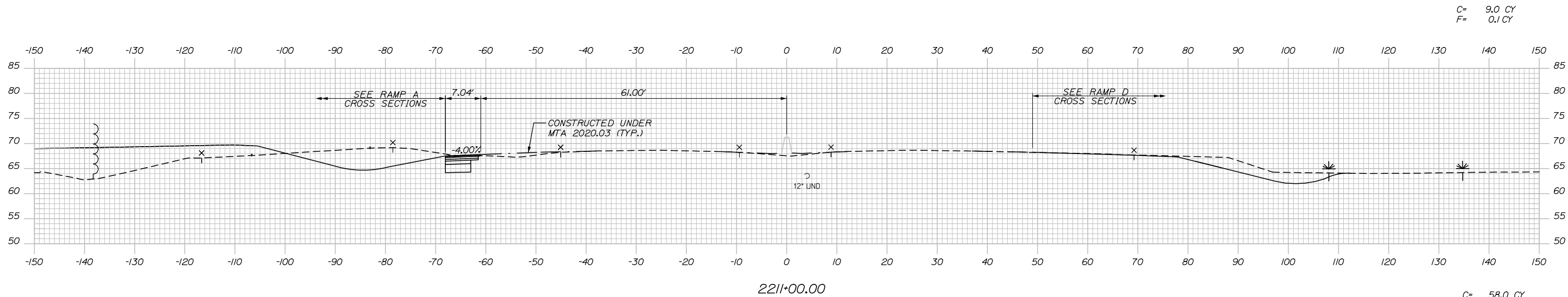
CONTRACT: 2021.07

SHEET NUMBER: XS-04

138 OF 431

Filename: Xsect - Mainline.dgn

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	EDD	09\20	
	Checked	JRH	09\20
	By	Date	
	Drawn	AJS	09\20
	In Charge of	RAL	09\20

HNTB CORPORATION
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Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

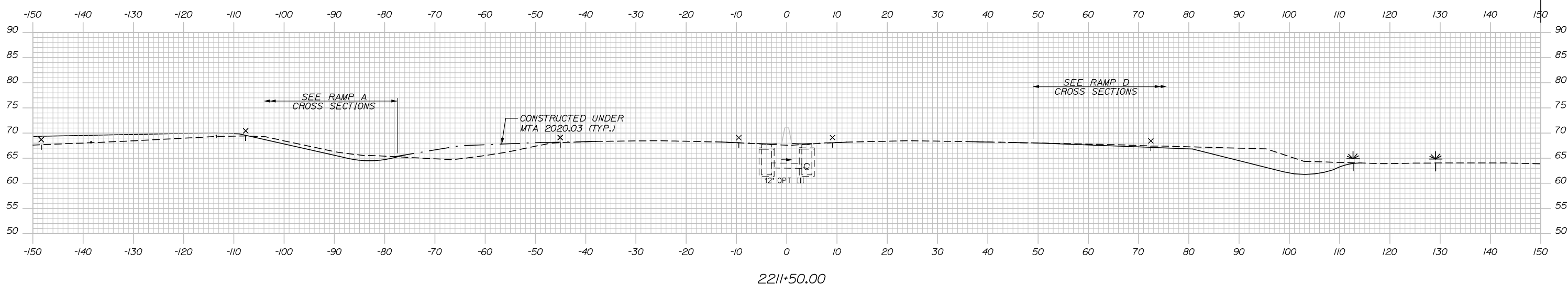
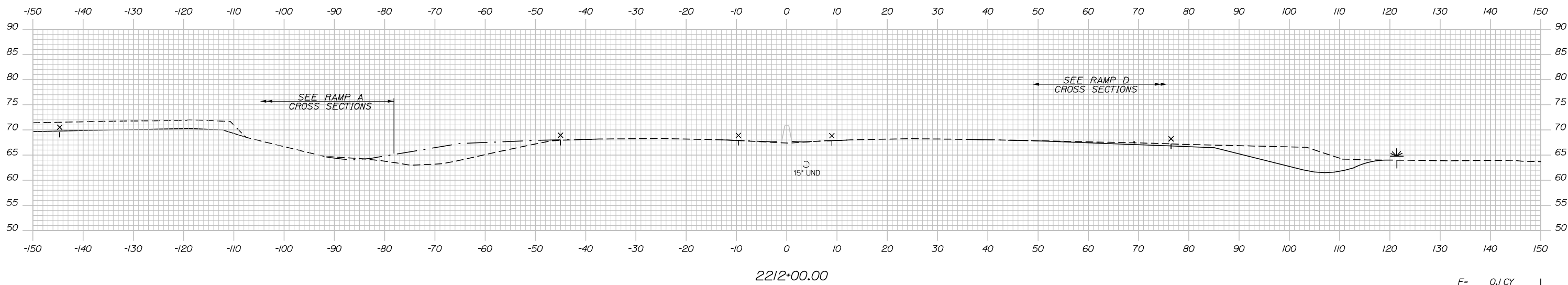
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2210+50 TO STA. 2211+00

SHEET NUMBER: XS-05
CONTRACT: 2021.07
139 OF 431

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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THE GOLD STAR MEMORIAL HIGHWAY

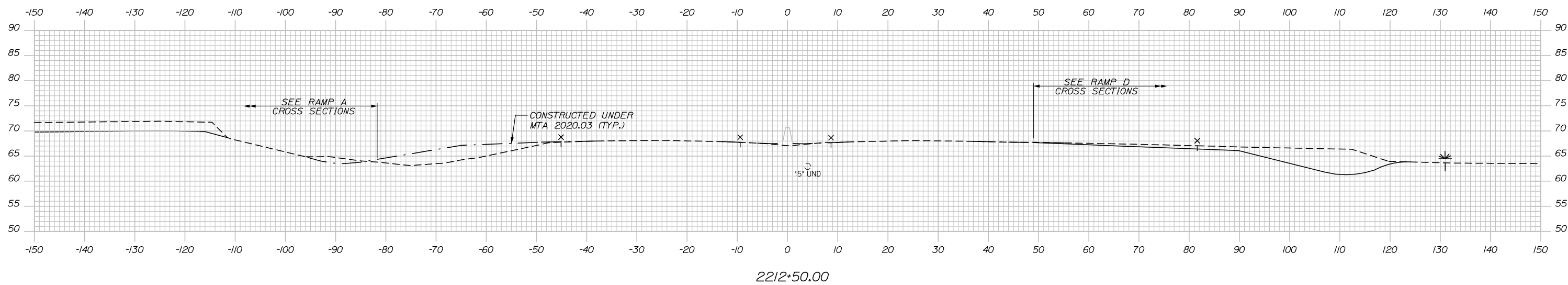
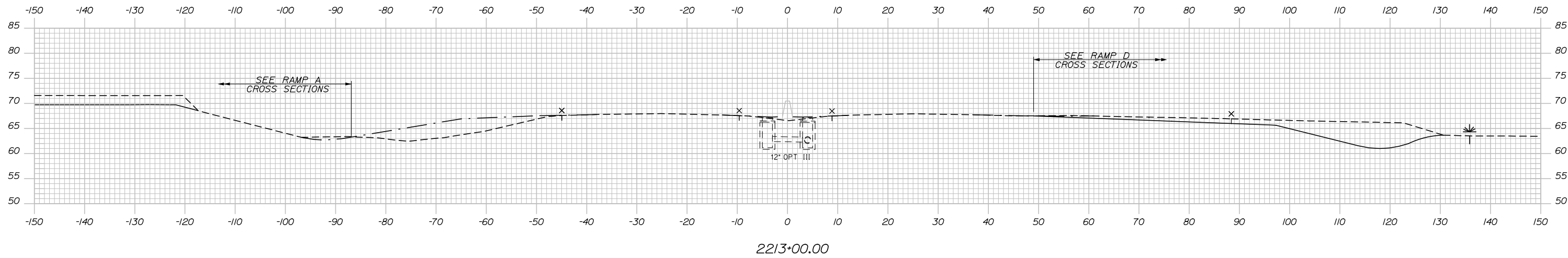
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – MAINLINE
 STA. 2211+50 TO STA. 2212+00

SHEET NUMBER: XS-06
 140 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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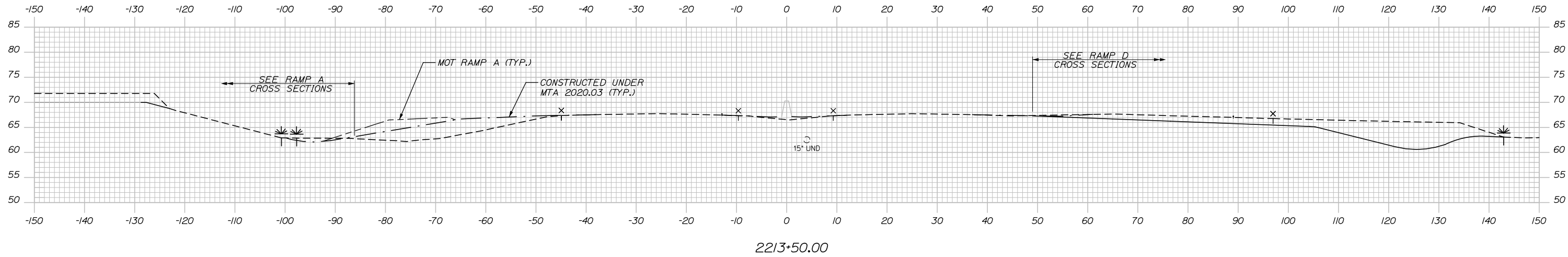
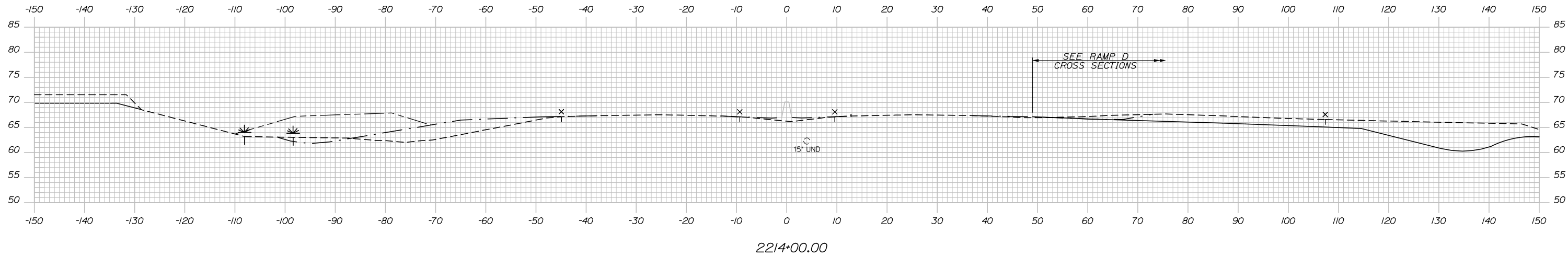
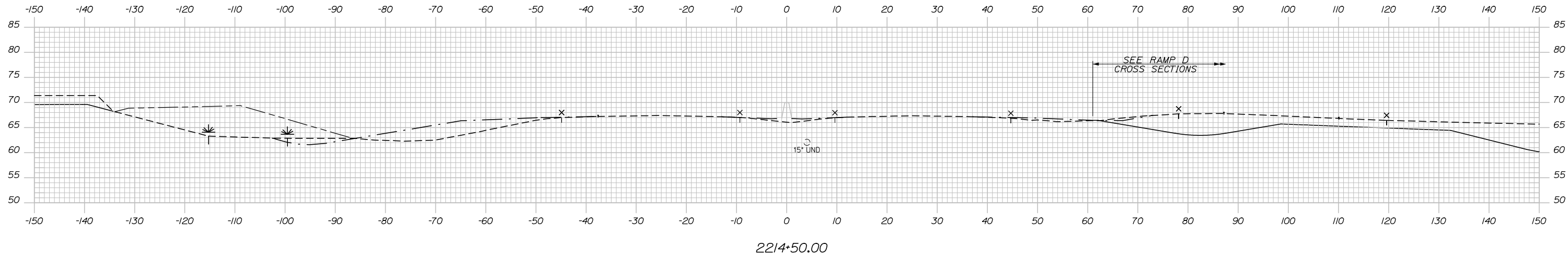
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

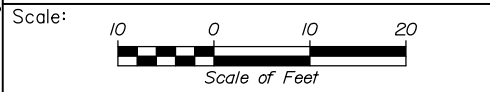
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2212+50 TO STA. 2213+00

SHEET NUMBER: XS-07
CONTRACT: 2021.07
141 OF 431

Date: 1/14/2021



Filename: Xsect - Mainline.dgn



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

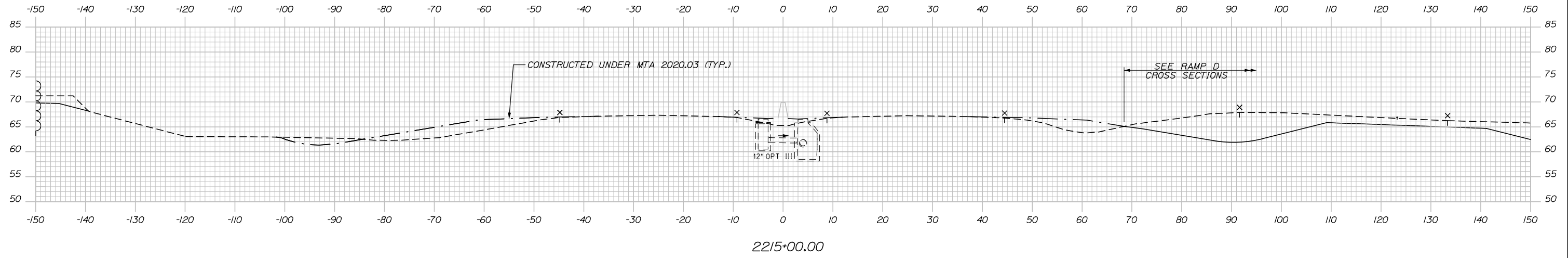
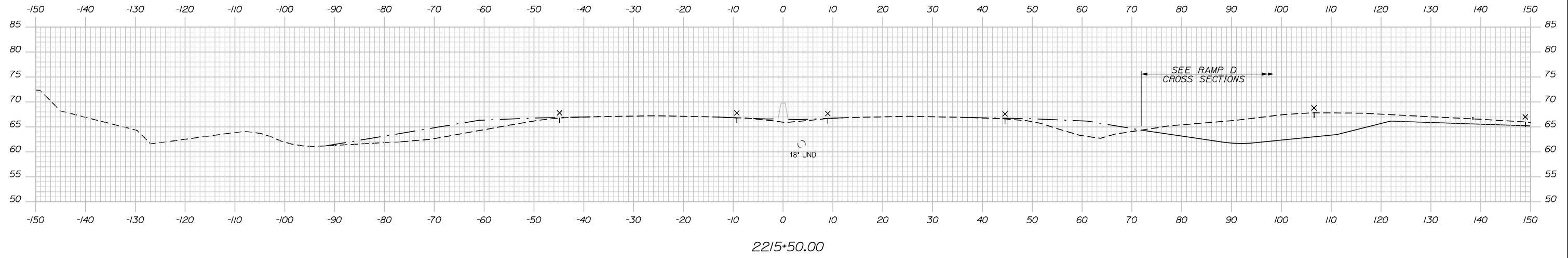
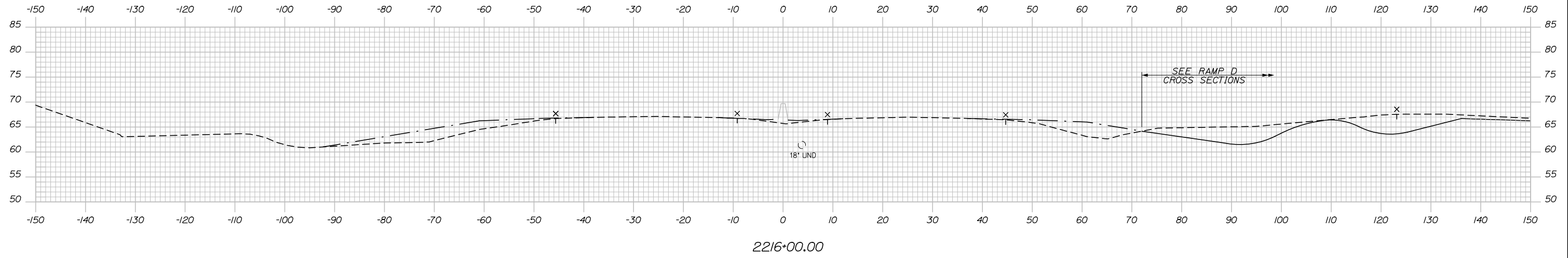
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – MAINLINE
 STA. 2213+50 TO STA. 2214+50

SHEET NUMBER: XS-08
 142 OF 431

CONTRACT: 2021.07

C= 12.3 CY
F= 1.9 CY

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

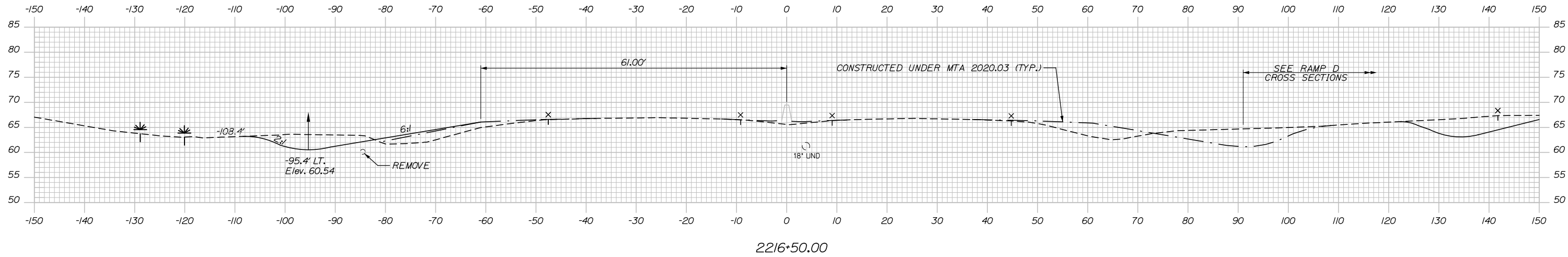
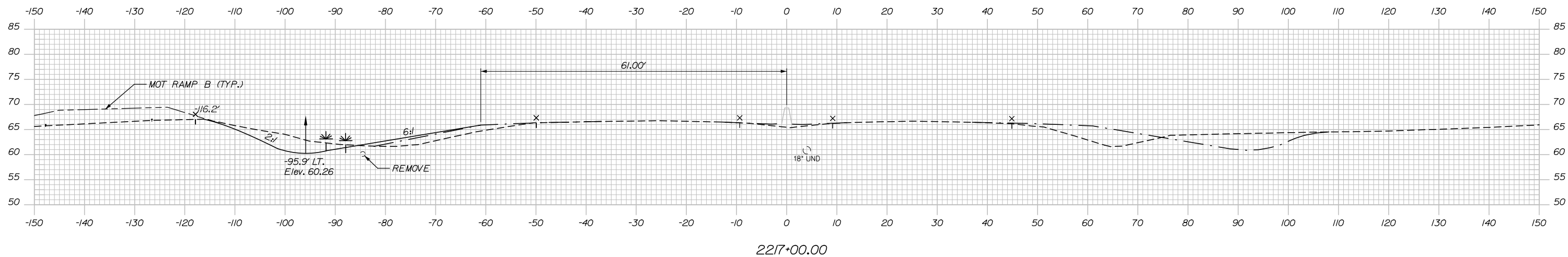
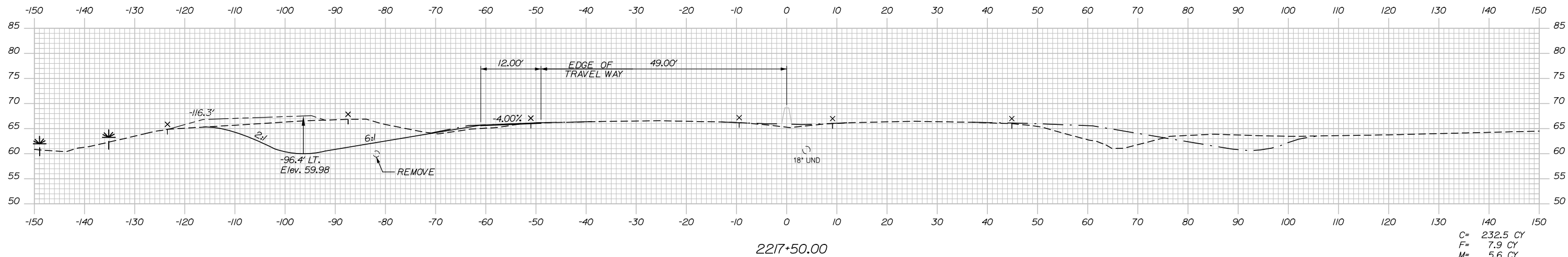
**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2215+00 TO STA. 2216+00**

SHEET NUMBER: XS-09
143 OF 431

CONTRACT: 2021.07

C= 286.2 CY
M= 16.7 CY

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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FAX (207) 228-0909

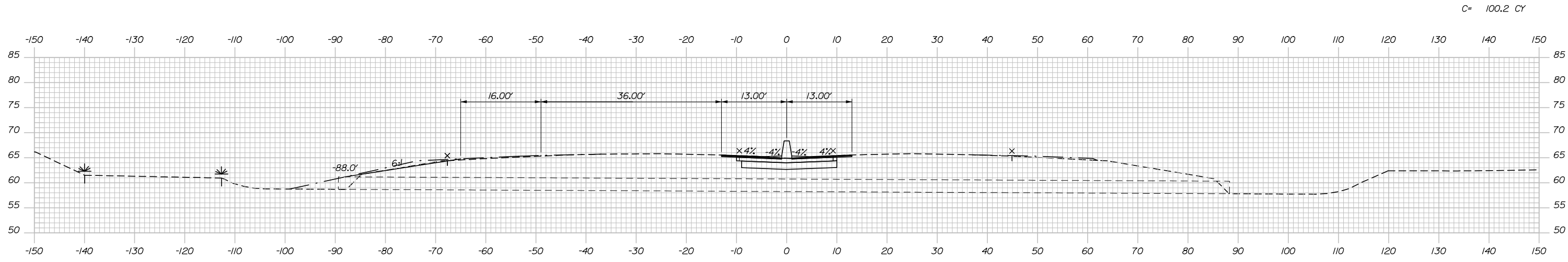
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

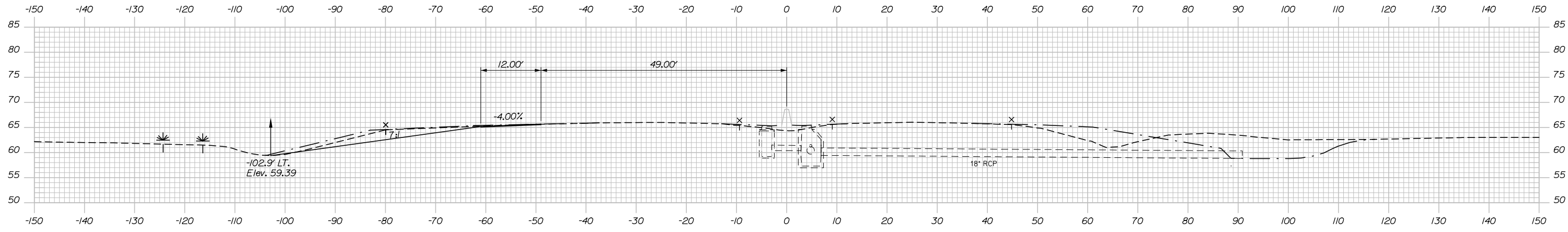
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2216+50 TO STA. 2217+50

SHEET NUMBER: XS-10
CONTRACT: 2021.07
144 OF 431

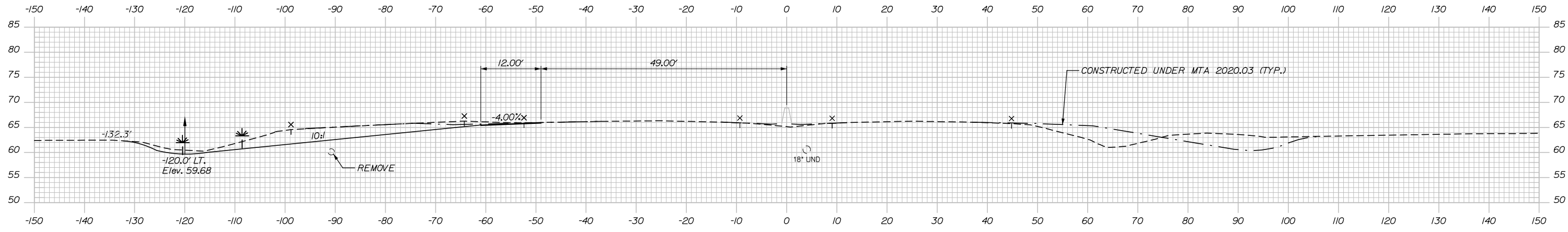
Date: 1/14/2021



2219+00.00
STA. 2218+95.00
BEGIN MEDIAN CONSTRUCTION



2218+50.00



2218+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - MAINLINE
STA. 2218+00 TO STA. 2219+00**

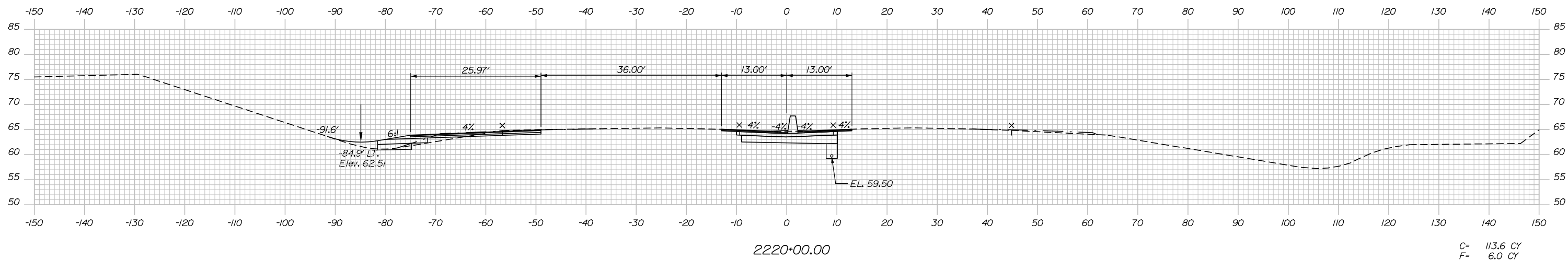
SHEET NUMBER: XS-11

CONTRACT: 2021.07

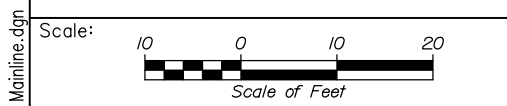
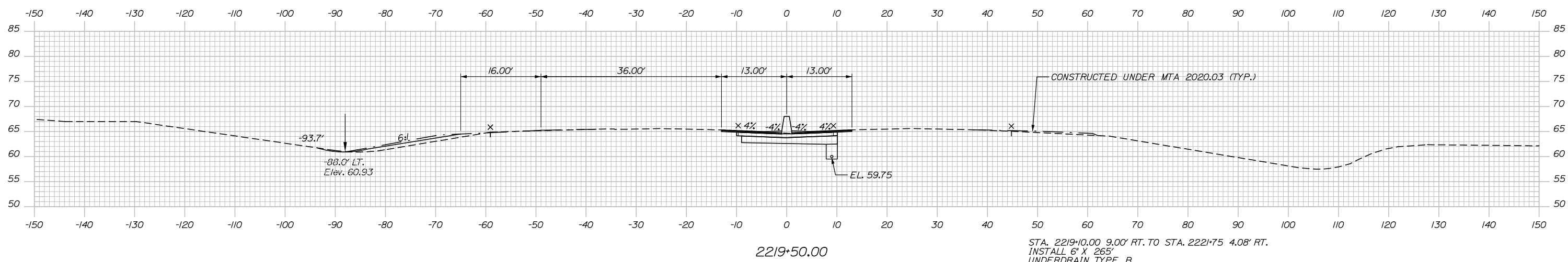
145 OF 431

Date: 1/14/2021

C= 107.0 CY
 F= 6.0 CY
 SUR. EXC.= 6.1 CY



C= 113.6 CY
 F= 6.0 CY



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – MAINLINE
 STA. 2219+50 TO STA. 2220+00**

CONTRACT: 2021.07

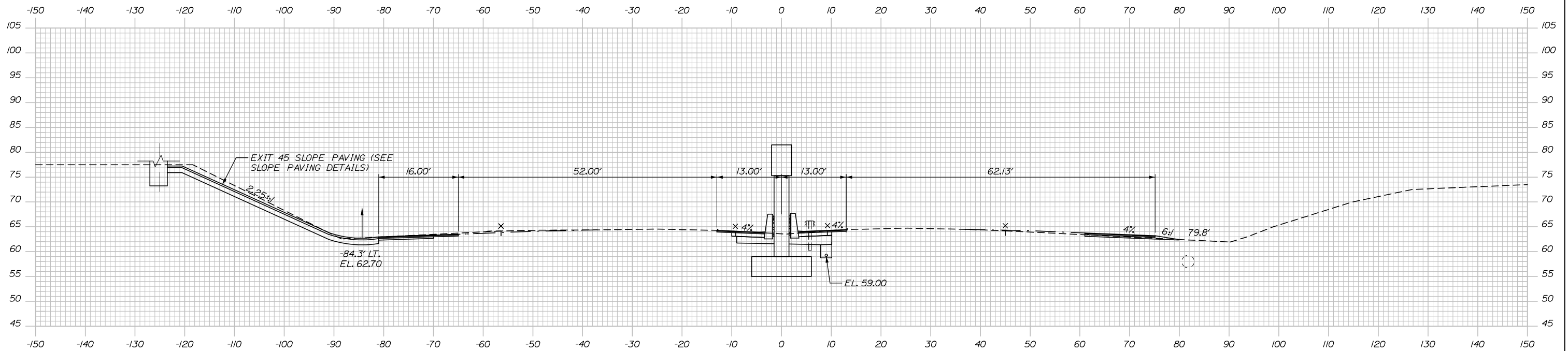
SHEET NUMBER: XS-12

146 OF 431

Filename: Xsect - Mainline.dgn

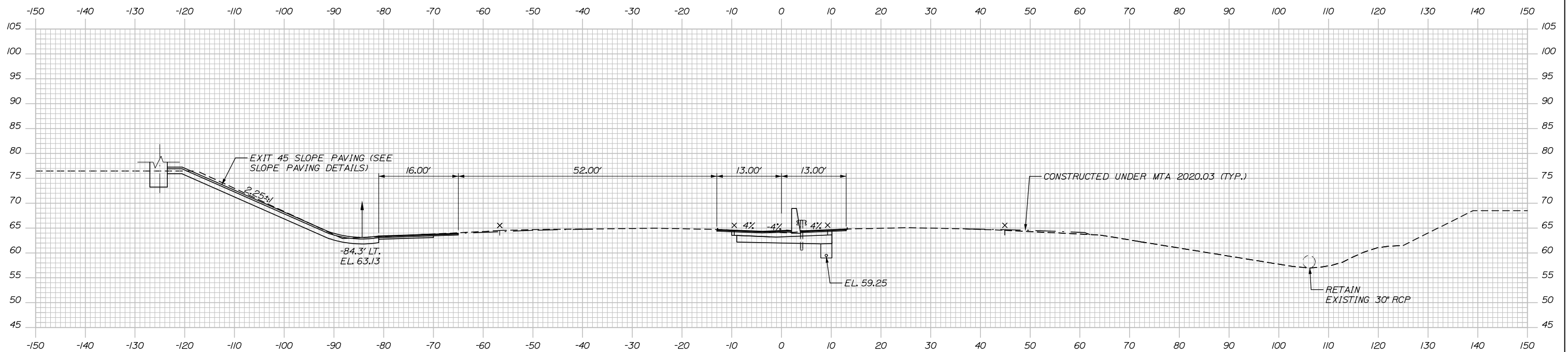
C= 86.5 CY
 F= 5.4 CY
 SUR. EXC.= 13.2 CY

Date: 1/14/2021

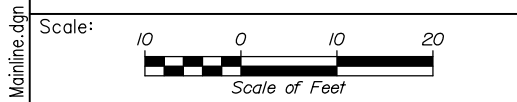


2221+00.00

C= 83.5 CY
 SUR. EXC.= 16.7 CY



2220+50.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - MAINLINE
 STA. 2220+50 TO STA. 2221+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	AJS 09\20	In Charge of	RAL 09\20

Filename: Xsect - Mainline.dgn

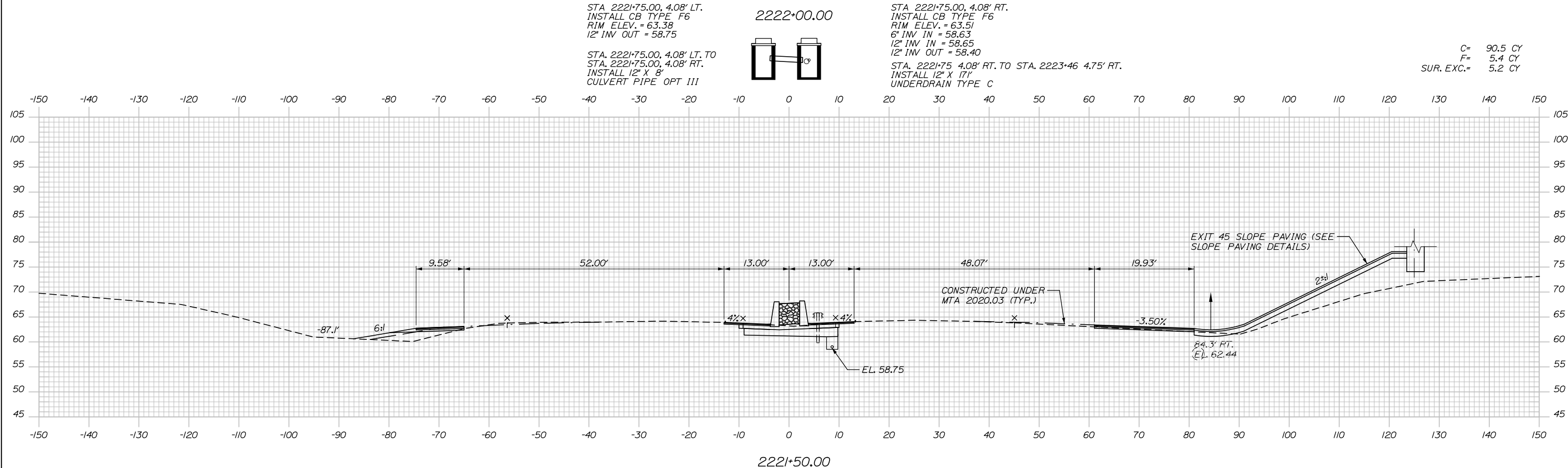
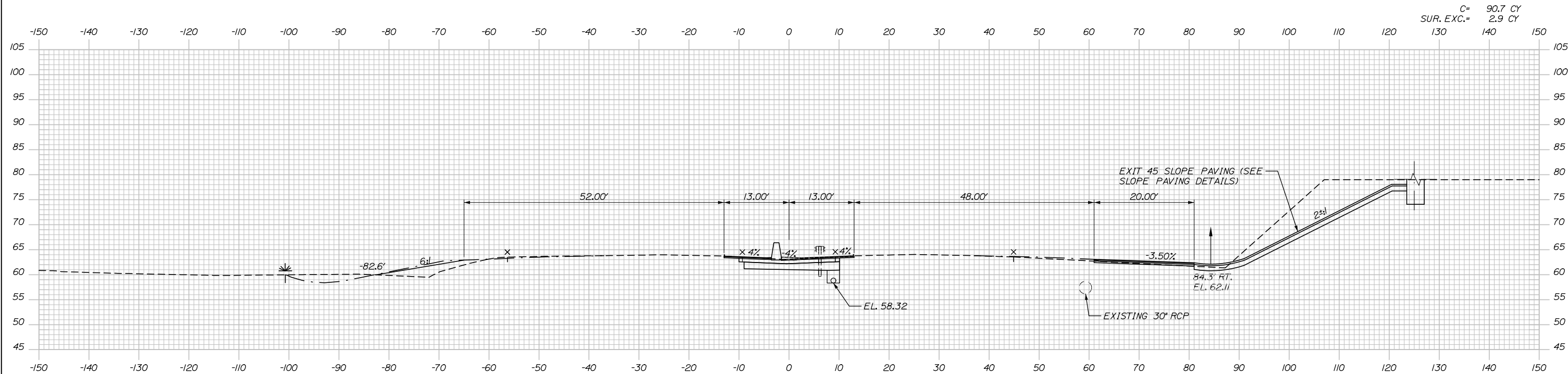
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: XS-13

147 OF 431

Date: 1/14/2021



Scale: 1" = 20'

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

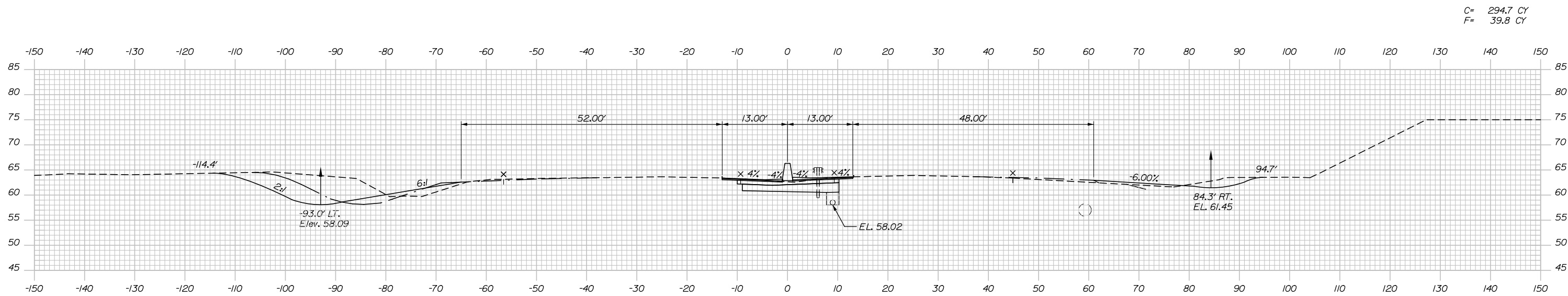
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - MAINLINE
 STA. 2221+50 TO STA. 2222+00

SHEET NUMBER: XS-14
 148 OF 431

CONTRACT: 2021.07

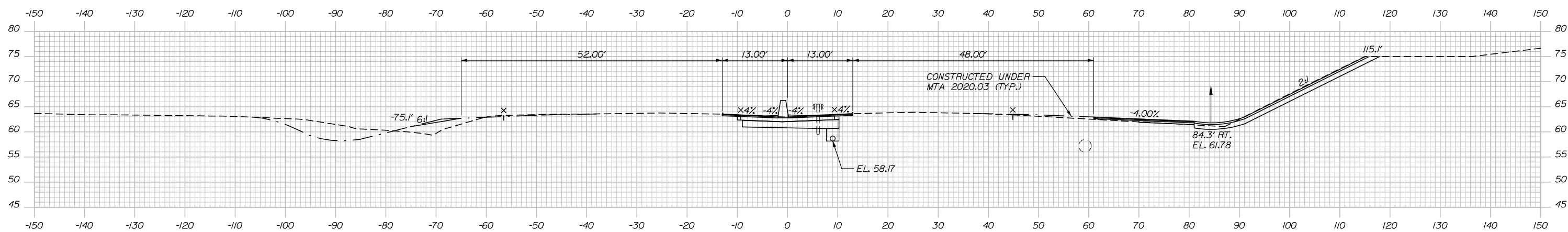
Date: 1/14/2021



C= 294.7 CY
F= 39.8 CY

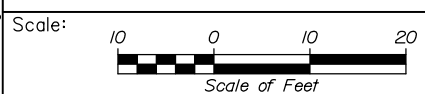
2223+00.00

C= 151.7 CY
F= 19.7 CY
SUR. EXC.= 0.3 CY



CONSTRUCTED UNDER
MTA 2020.03 (TYP.)

2222+50.00



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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - MAINLINE
STA. 2222+50 TO STA. 2223+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	AJS 09\20	In Charge of	RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

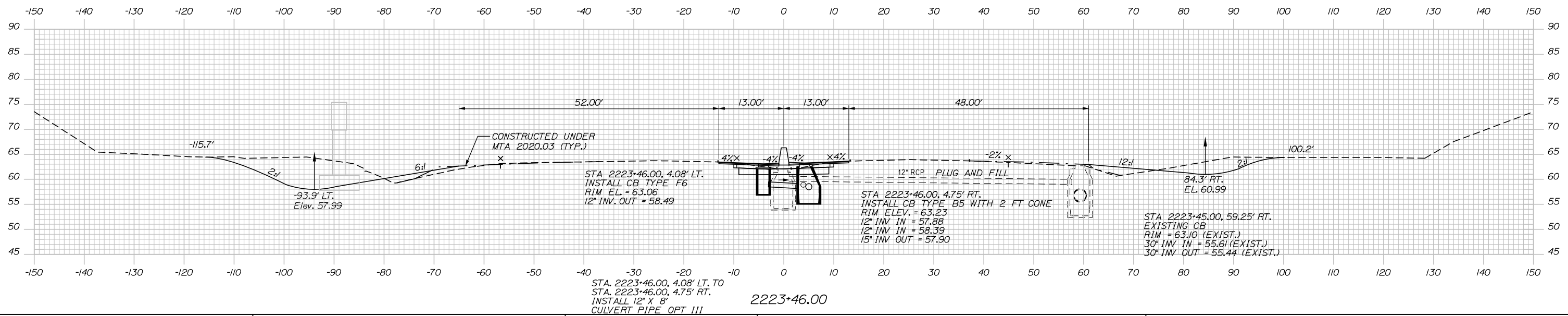
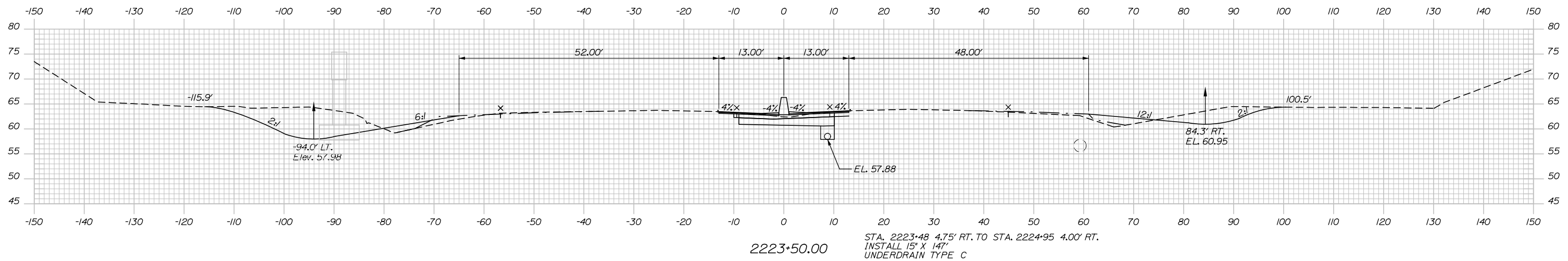
SHEET NUMBER: XS-15

149 OF 431

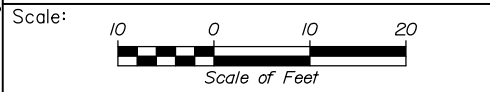
Filename: Xsect - Mainline.dgn

Date: 1/14/2021

C= 393.1 CY
F= 35.9 CY



Filename: Xsect - Mainline.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

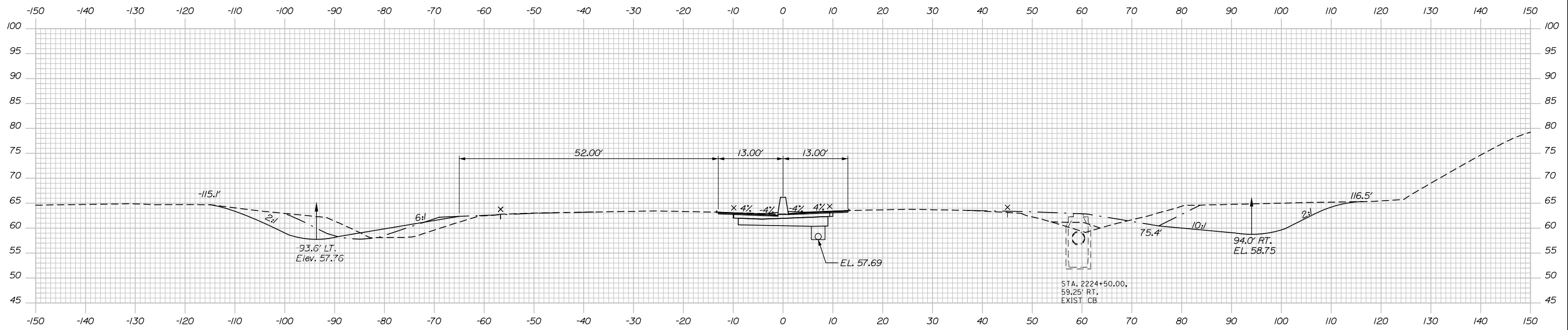
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - MAINLINE
STA. 2223+46 TO STA. 2223+50

SHEET NUMBER: XS-16
 CONTRACT: 2021.07
 150 OF 431

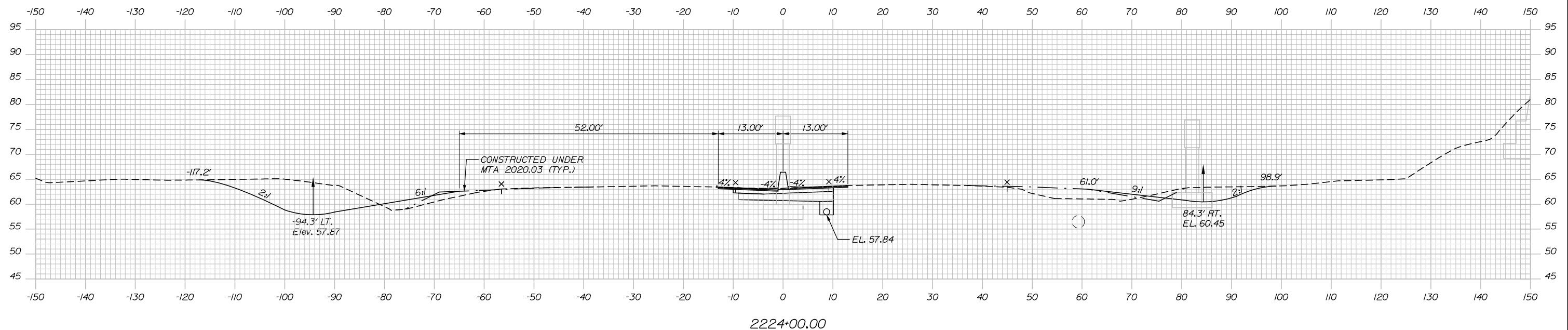
Date: 1/14/2021

C= 508.7 CY
F= 14.3 CY

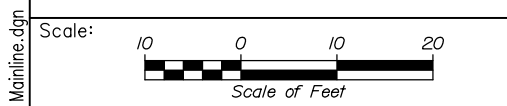


2224+50.00

C= 431.3 CY
F= 30.1 CY



2224+00.00



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

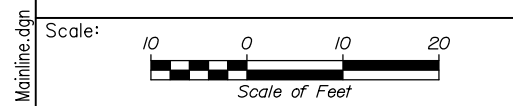
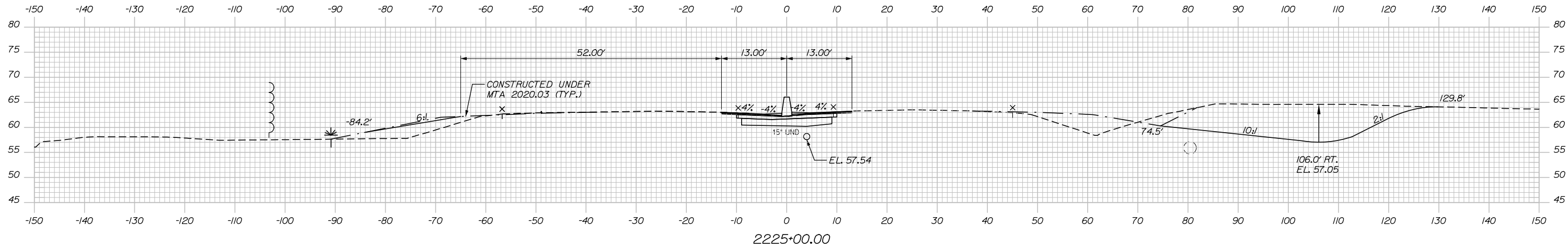
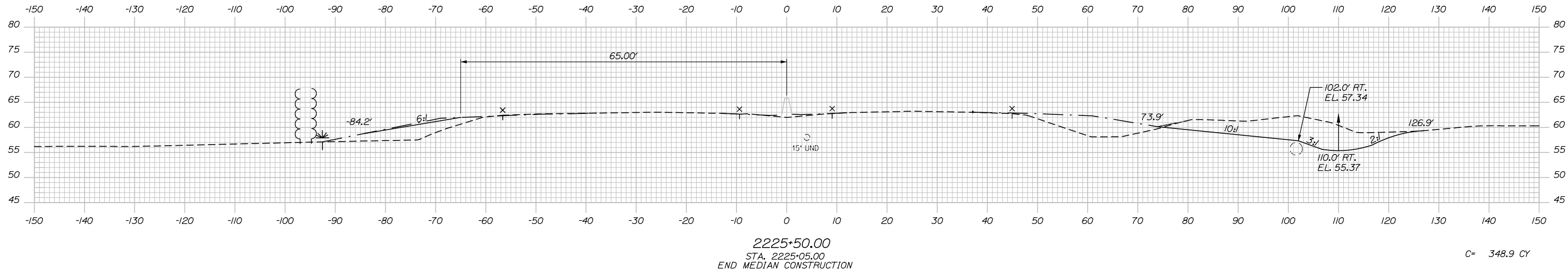
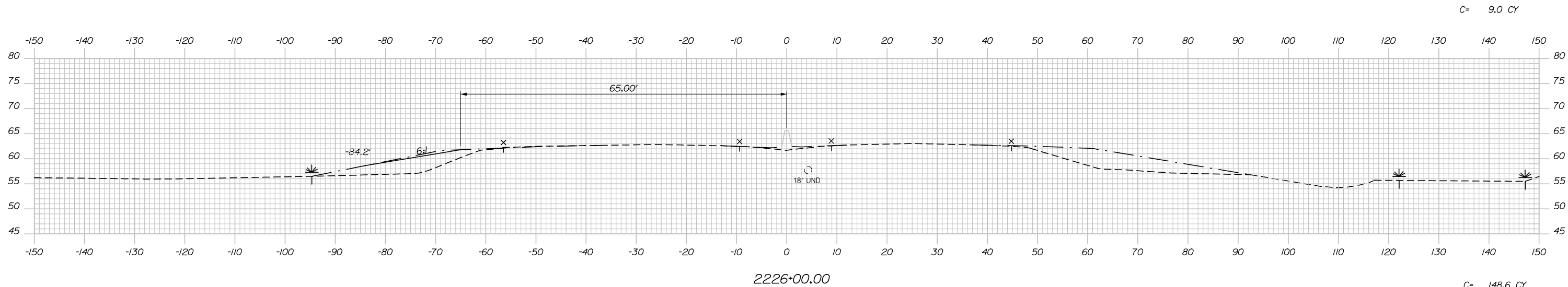
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2224+00 TO STA. 2224+50

SHEET NUMBER: XS-17
CONTRACT: 2021.07
151 OF 431

Filename: Xsect - Mainline.dgn

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

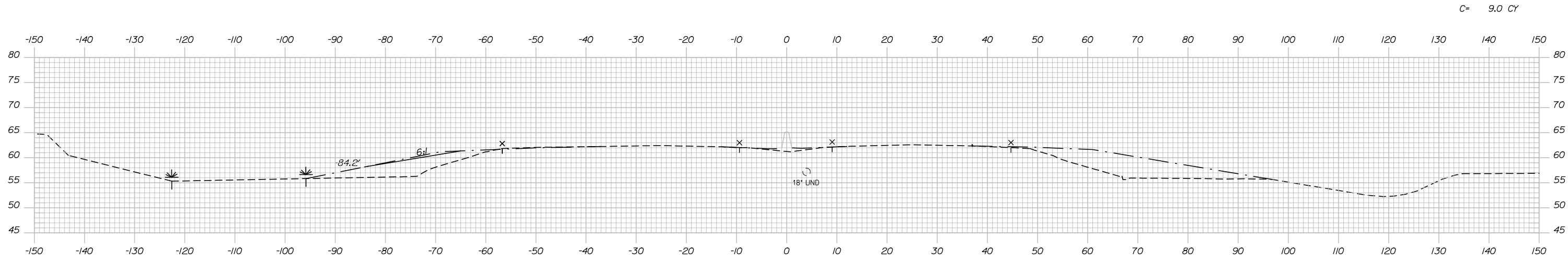
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – MAINLINE
 STA. 2225+00 TO STA. 2226+00**

CONTRACT: 2021.07

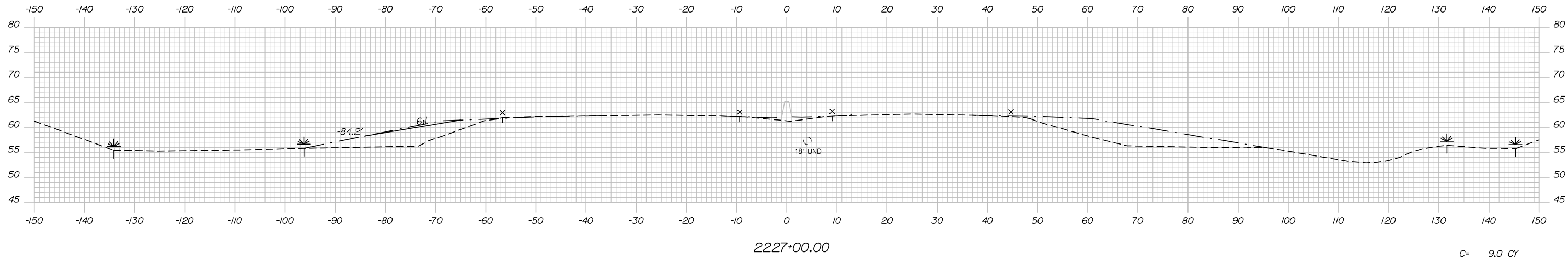
SHEET NUMBER: XS-18

152 OF 431

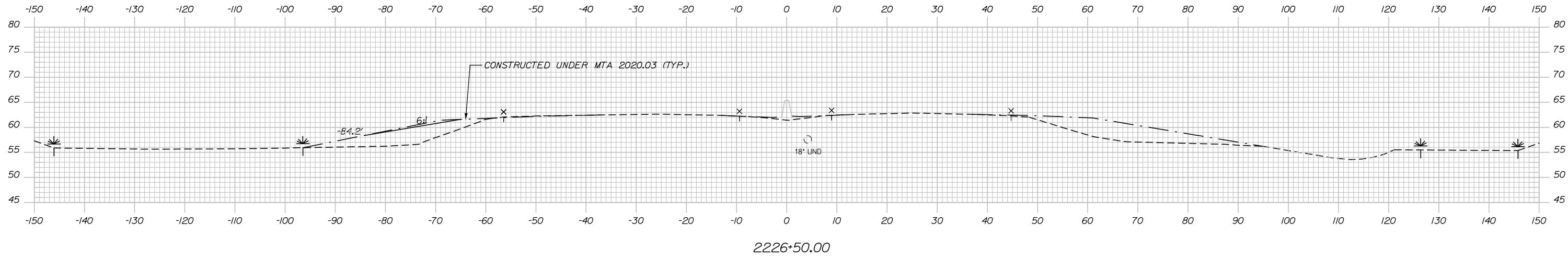
Date: 1/14/2021



2227+50.00



2227+00.00



2226+50.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

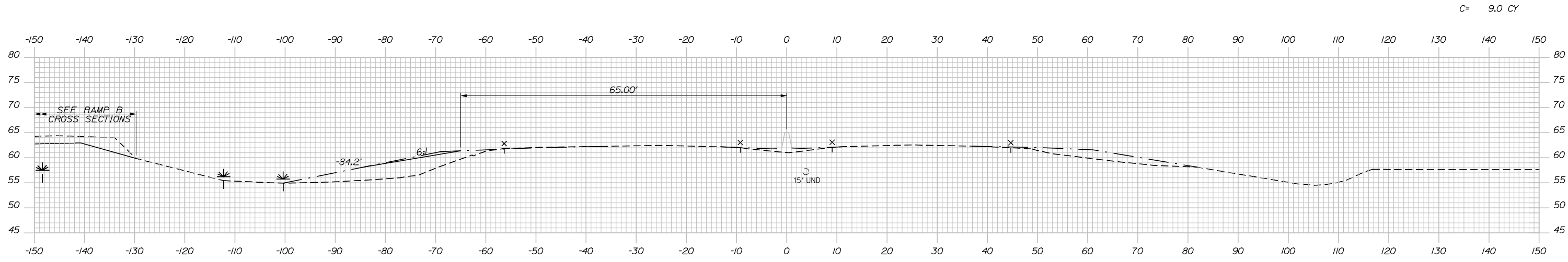
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – MAINLINE
 STA. 2226+50 TO STA. 2227+50

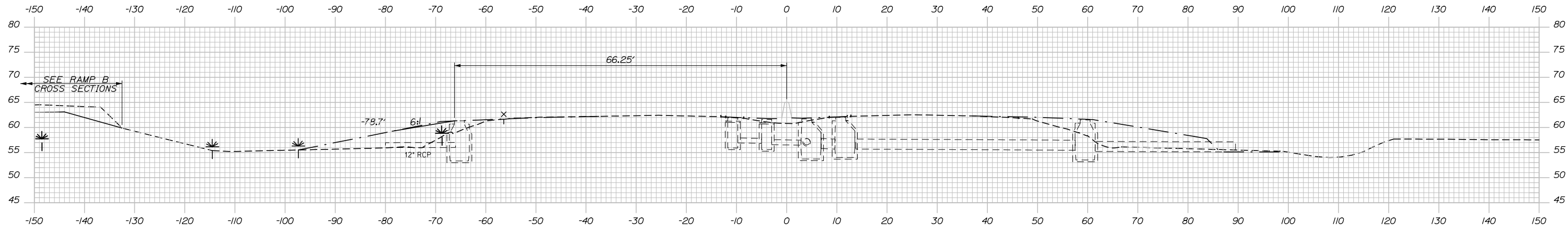
SHEET NUMBER: XS-19
 153 OF 431

CONTRACT: 2021.07

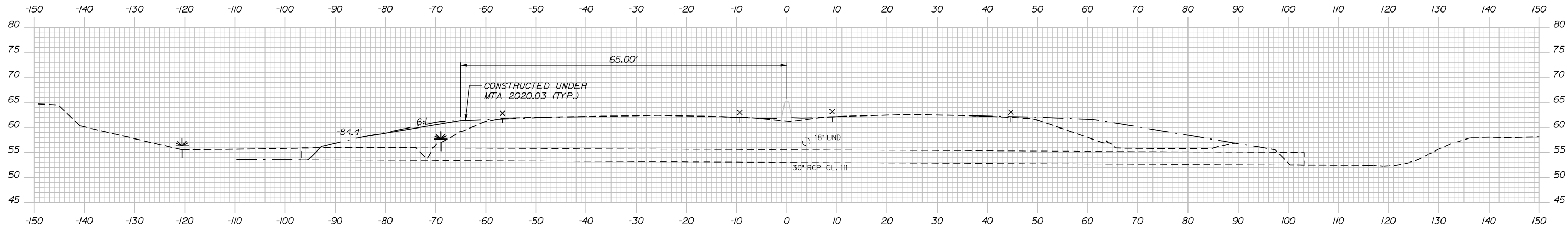
Date: 1/14/2021



2228+00.00



2227+89.00



2227+62.71

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

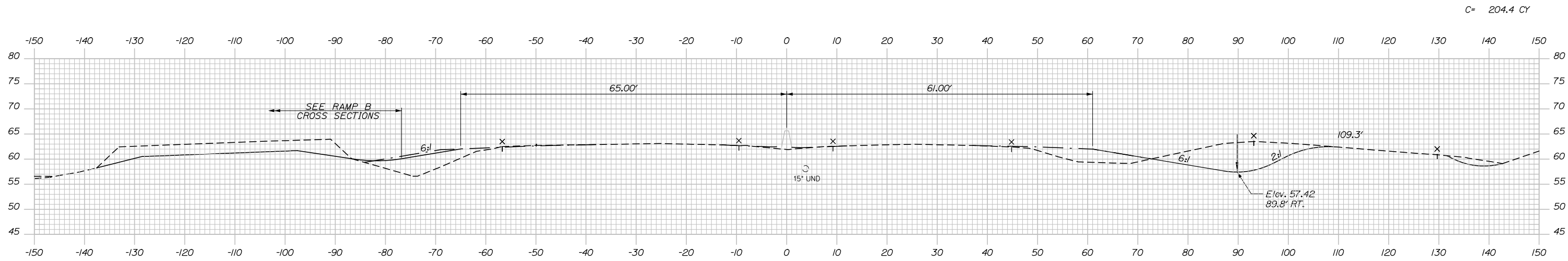
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2227+63 TO STA. 2228+00

SHEET NUMBER: XS-20
 154 OF 431

CONTRACT: 2021.07

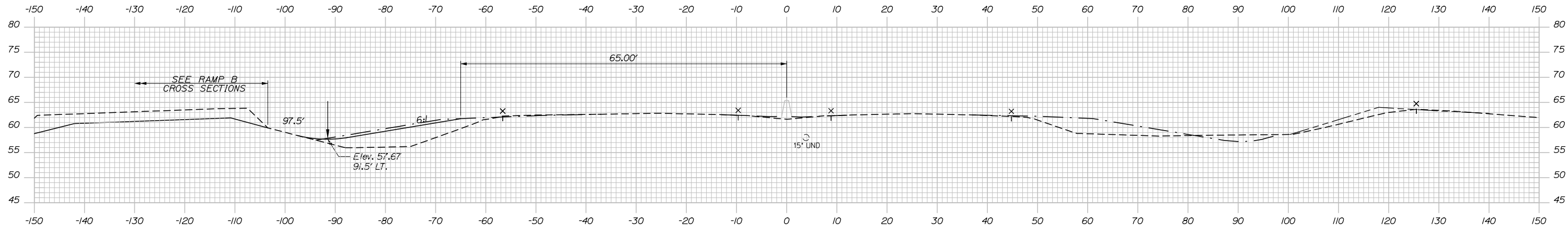
Date: 1/14/2021



C= 204.4 CY

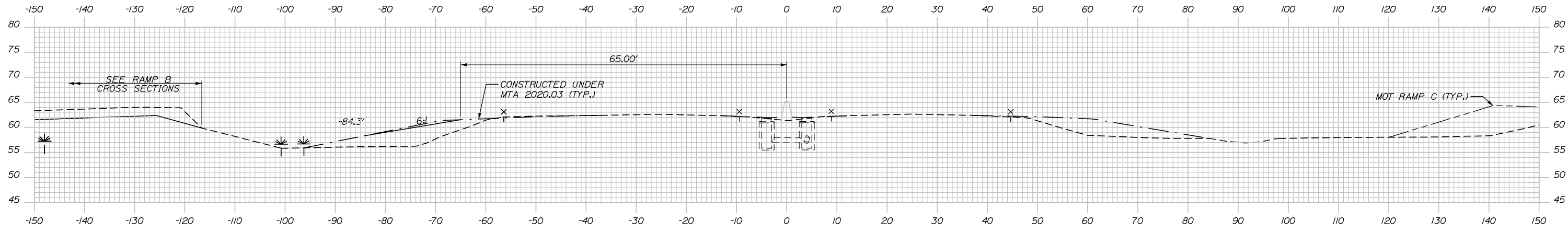
2229+50.00

C= 119.0 CY
F= 0.6 CY

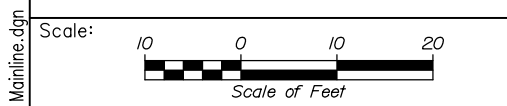


2229+00.00

C= 15.7 CY
F= 0.6 CY



2228+50.00



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

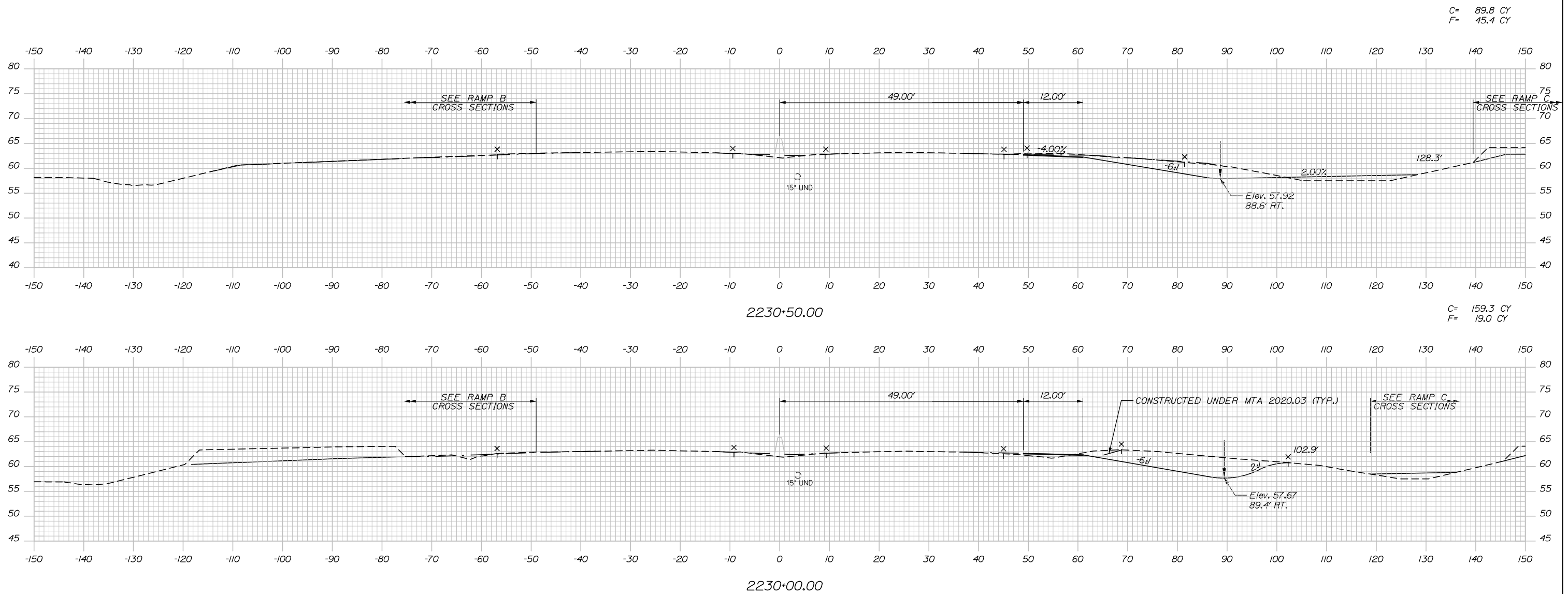
**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2228+50 TO STA. 2229+50**

SHEET NUMBER: XS-21
155 OF 431

CONTRACT: 2021.07

Filename: Xsect - Mainline.dgn

Date: 1/14/2021



C= 89.8 CY
F= 45.4 CY

C= 159.3 CY
F= 19.0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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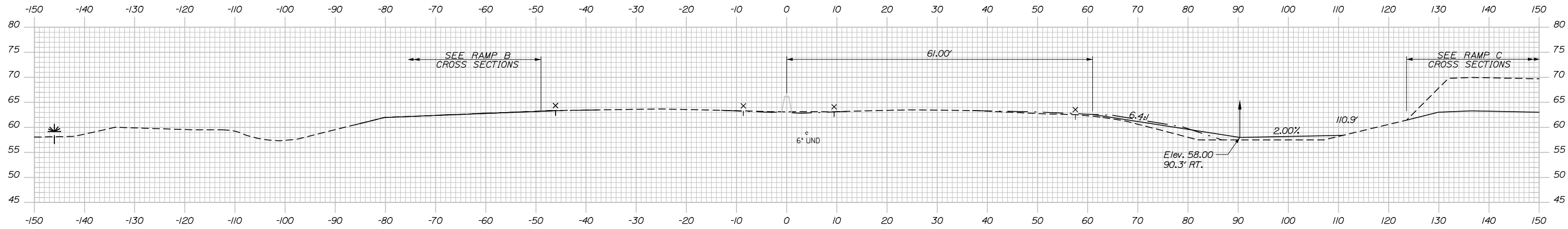
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2230+00 TO STA. 2230+50

SHEET NUMBER: XS-22
CONTRACT: 2021.07
156 OF 431

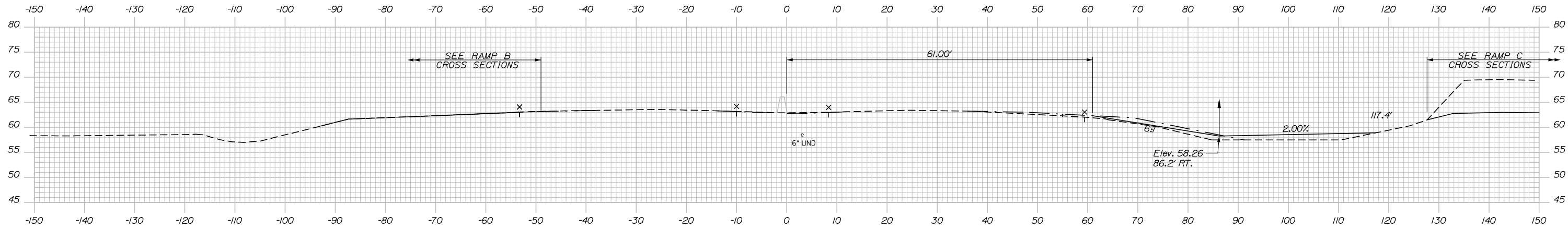
Date: 1/14/2021

C= 5.9 CY
F= 31.3 CY



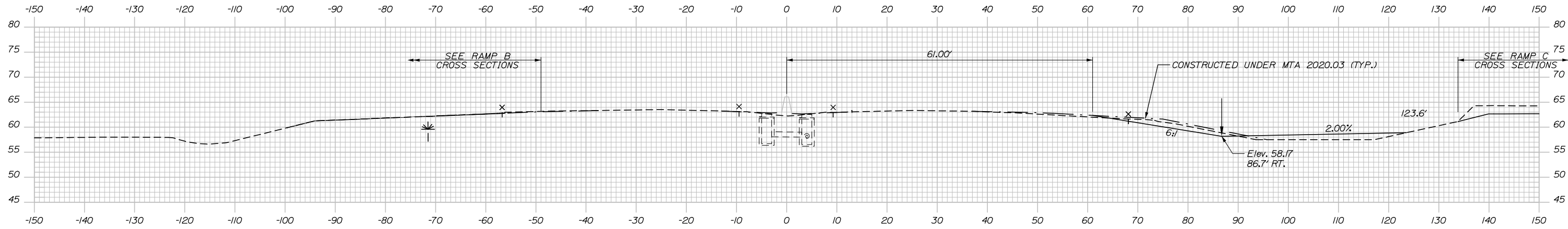
2232+00.00

C= 18.0 CY
F= 42.3 CY

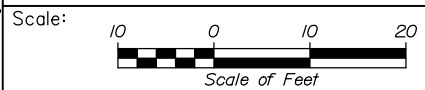


2231+50.00

C= 39.2 CY
F= 51.3 CY



2231+00.00



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - MAINLINE
STA. 2231+00 TO STA. 2232+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
Drawn	By	Date	In Charge of
	EDD	09\20	JRH
	AJS	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

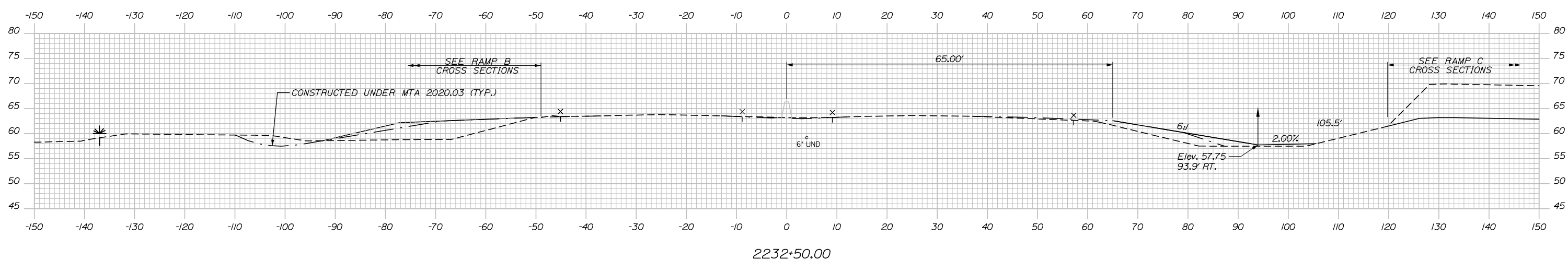
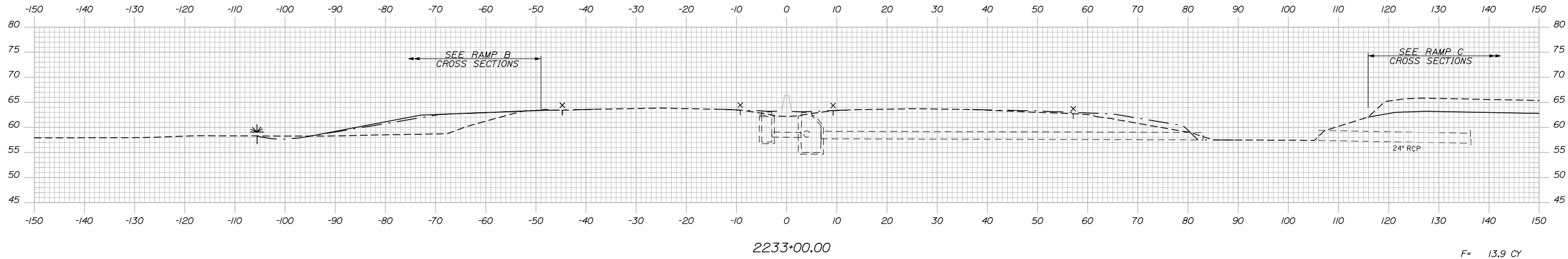
CONTRACT: 2021.07

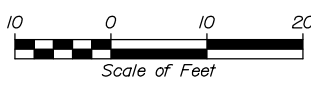
SHEET NUMBER: XS-23

157 OF 431

Filename: Xsect - Mainline.dgn

Date: 1/14/2021



Scale:  Scale of Feet

No.	Revision	By	Date


Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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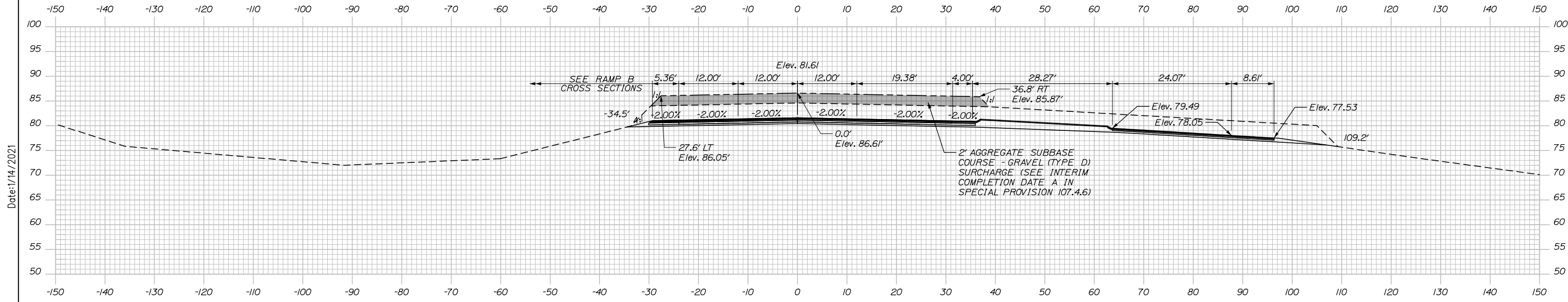
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – MAINLINE
STA. 2232+50 TO STA. 2233+00**

SHEET NUMBER: XS-24
158 OF 431

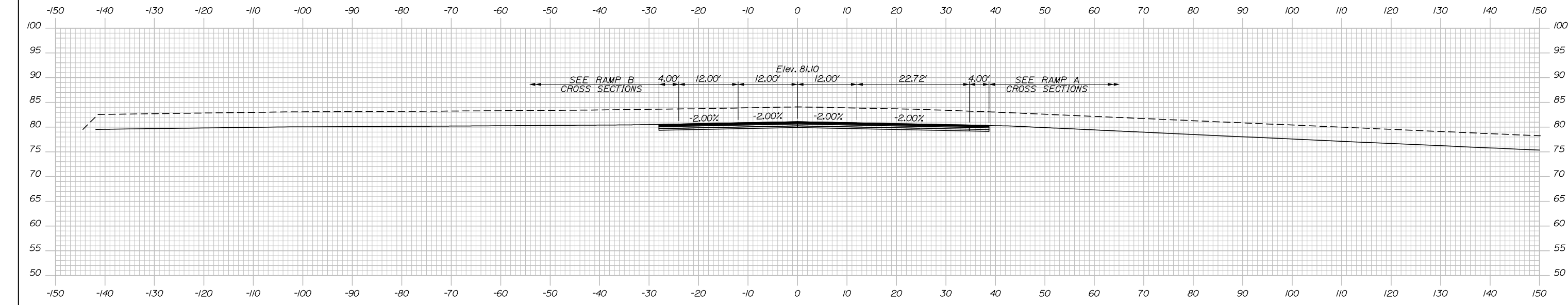
CONTRACT: 2021.07

SUR. EXC.= 601.6 CY



1047+00.00

SUR. EXC.= 1495.4 CY



1046+50.00

STA. 1046+35.31 ROUTE 703 \square =
 STA. 119+46.64 RAMP A \square =
 STA. 200+00.00 RAMP B \square

SUR. EXC.= 226.4 CY

Filename: Xsect - Route 703.dgn



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1046+50 TO STA. 1047+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

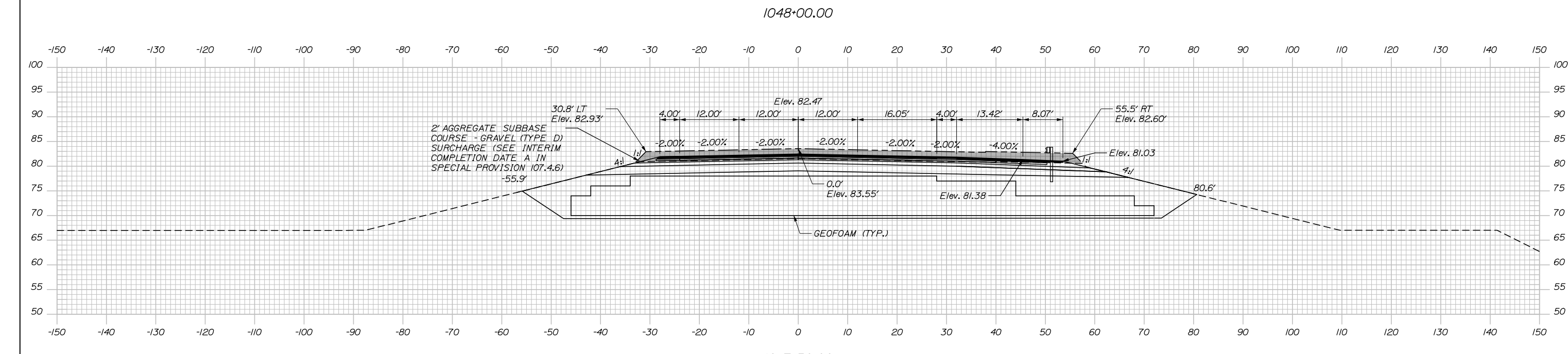
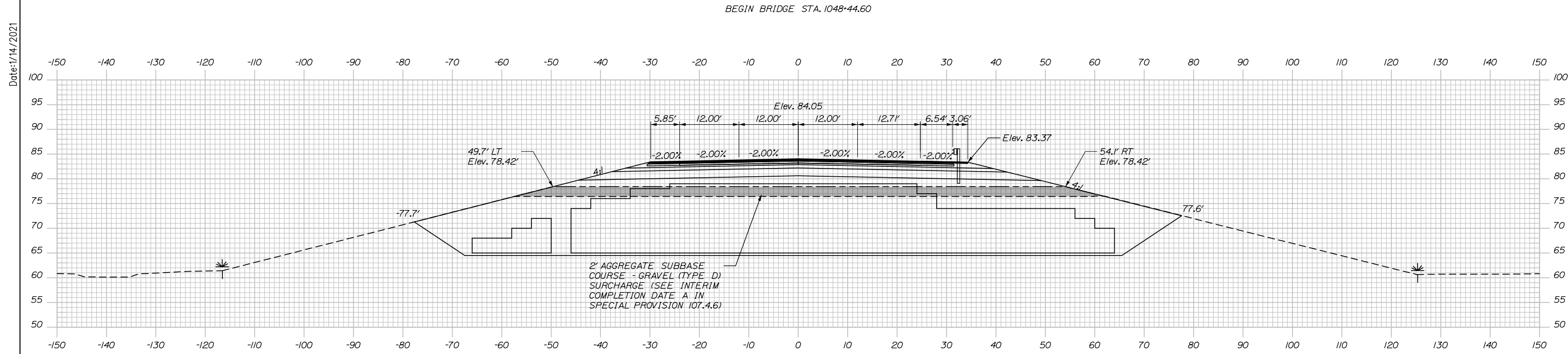
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: XS-25

159 OF 431

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

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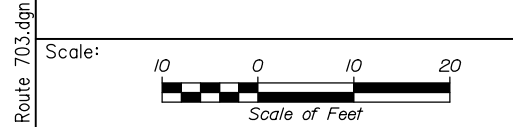
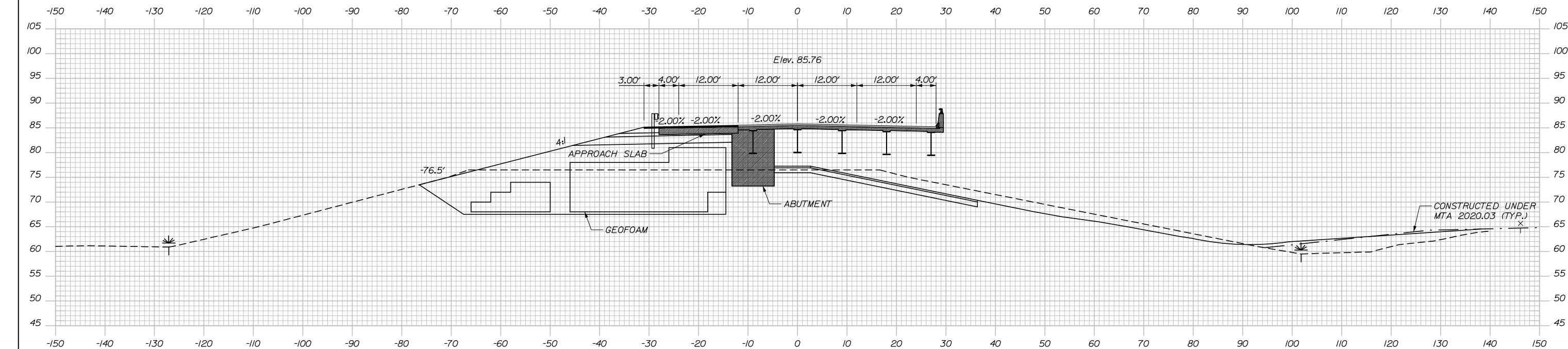
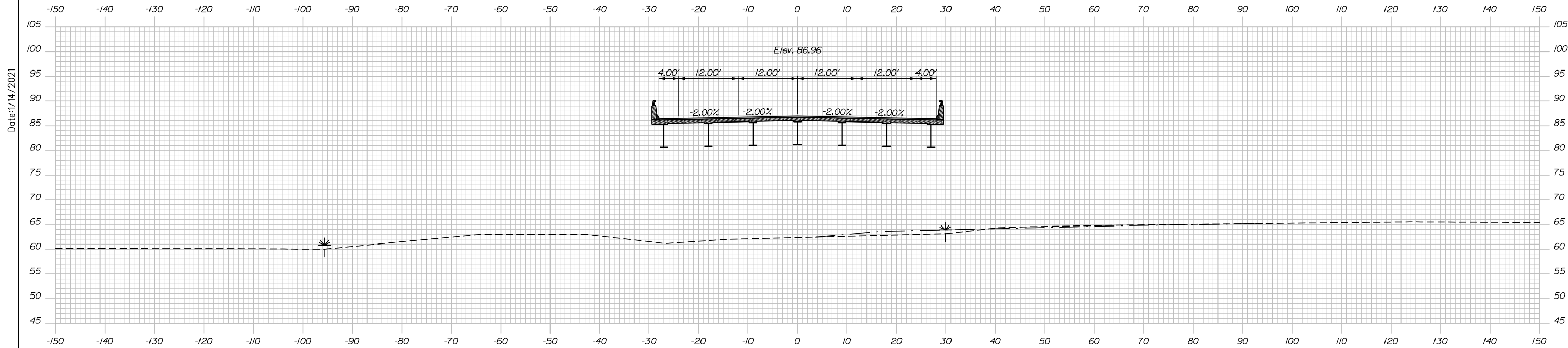
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1047+50 TO STA. 1048+00

SHEET NUMBER: XS-26
 160 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1048+50 TO STA. 1049+00**

CONTRACT: 2021.07

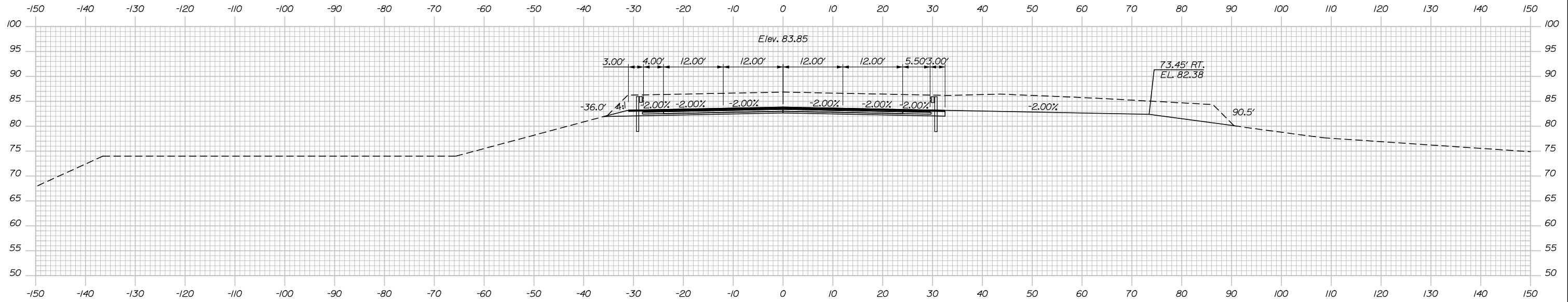
SHEET NUMBER: XS-27

161 OF 431

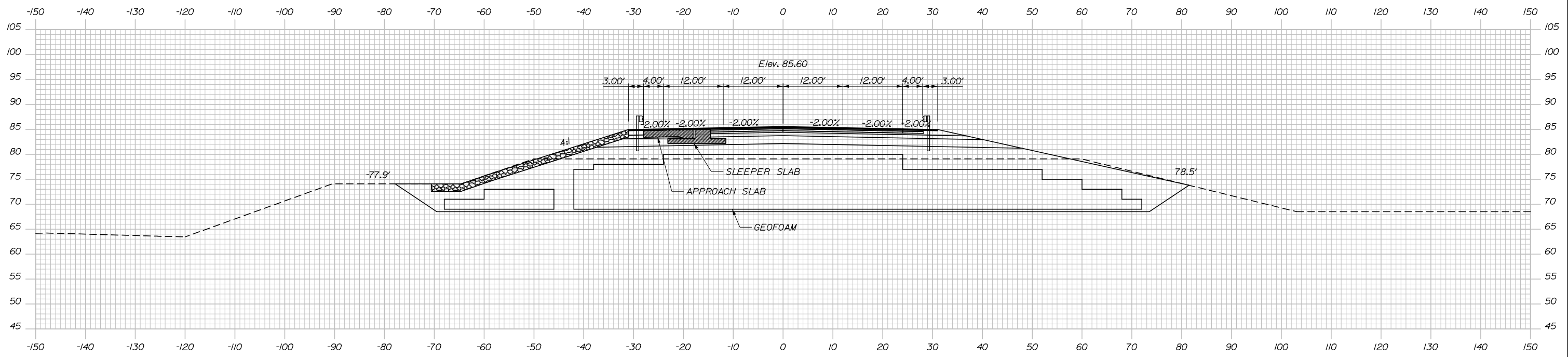
Filename: Xsect - Route 703.dgn

Date: 1/14/2021

F= 0.9 CY
SUR. EXC.= 686.7 CY

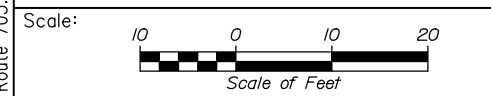


SUR. EXC.= 150.6 CY



END BRIDGE STA. 1051+21.89

Filename: Xsect - Route 703.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

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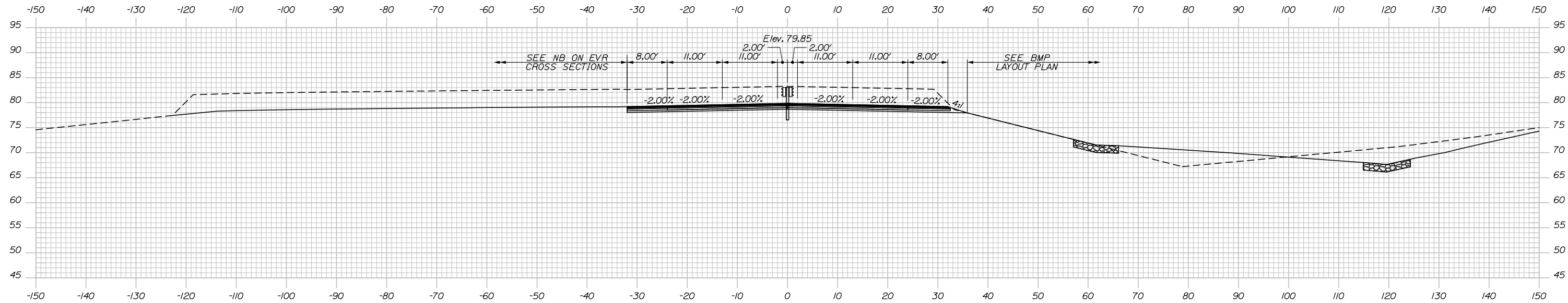
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1051+50 TO STA. 1052+00

SHEET NUMBER: XS-28
CONTRACT: 2021.07
162 OF 431

Date: 1/14/2021

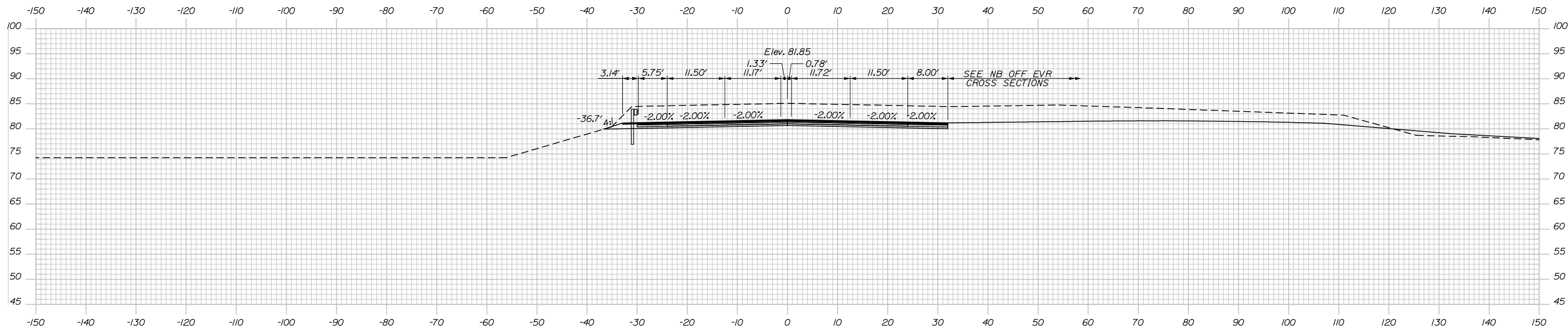
SUR. EXC. = 555.0 CY



1053+00.00

STA. 1052+64.78 ROUTE 703 \bar{C} =
 STA. 350+00.00 NB ON EVR \bar{B} =
 STA. 454+21.37 NB OFF EVR \bar{B}

F = 0.9 CY
 SUR. EXC. = 538.6 CY



1052+50.00



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1052+50 TO STA. 1053+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	By	Date	Checked	By	Date
	CDH	09\20		JRH	09\20
Drawn	By	Date	In Charge of	By	Date
	CDH	09\20		RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

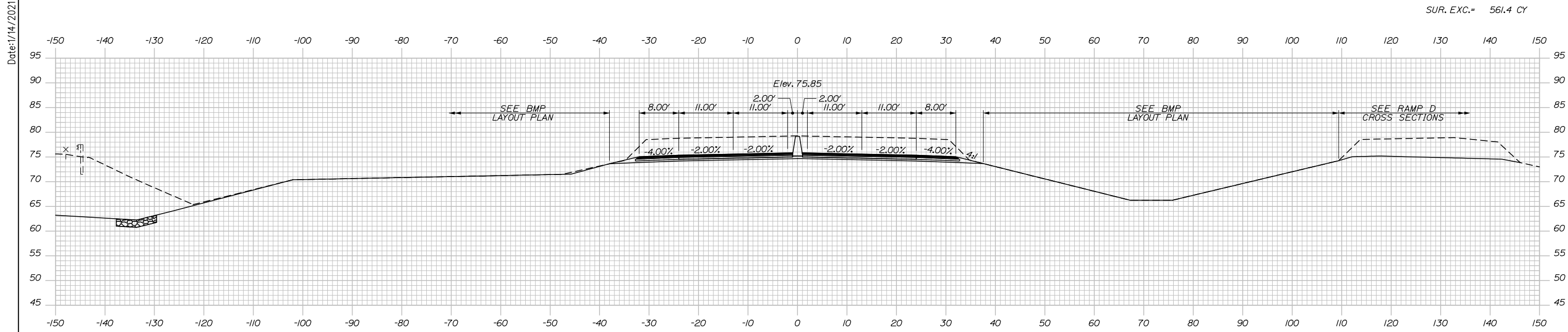
CONTRACT: 2021.07

SHEET NUMBER: XS-29

163 OF 431

Filename: Xsect - Route 703.dgn

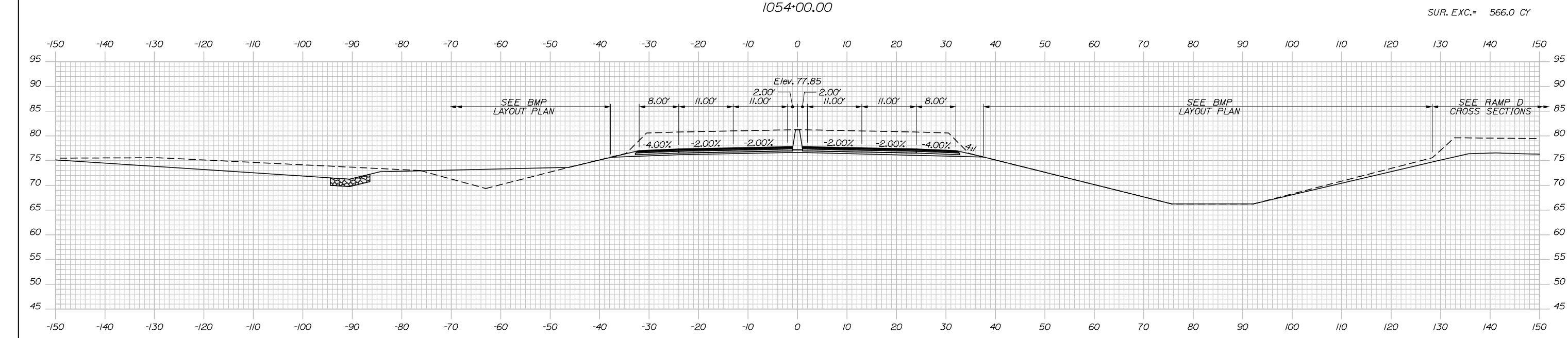
Date: 1/14/2021



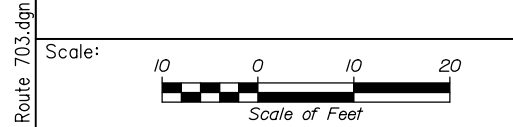
SUR. EXC.= 561.4 CY

1054+00.00

SUR. EXC.= 566.0 CY



1053+50.00



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THE GOLD STAR
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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1053+50 TO STA. 1054+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

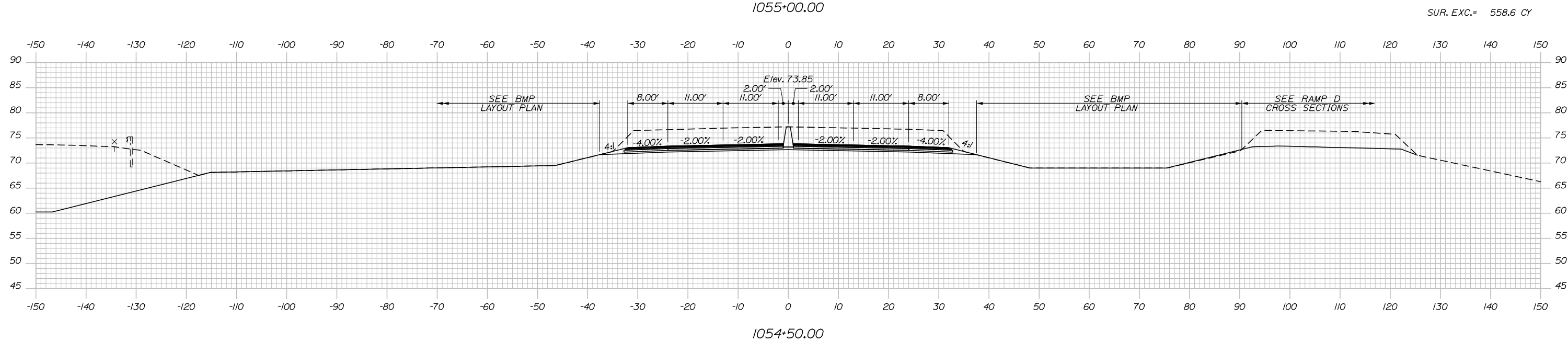
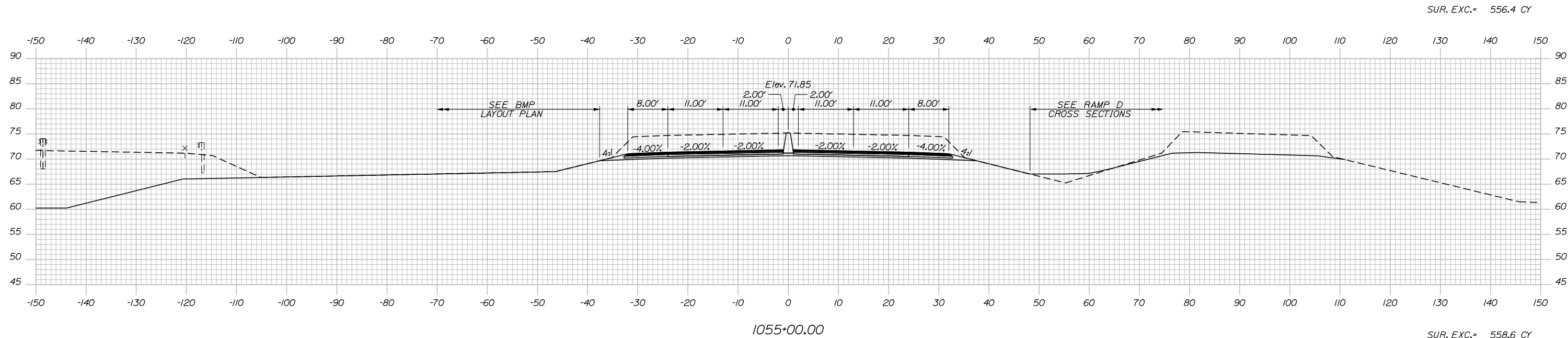
CONTRACT: 2021.07

SHEET NUMBER: XS-30

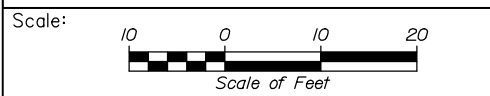
164 OF 431

Filename: Xsect - Route 703.dgn

Date: 1/14/2021



Filename: Xsect - Route 703.dgn



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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1054+50 TO STA. 1055+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

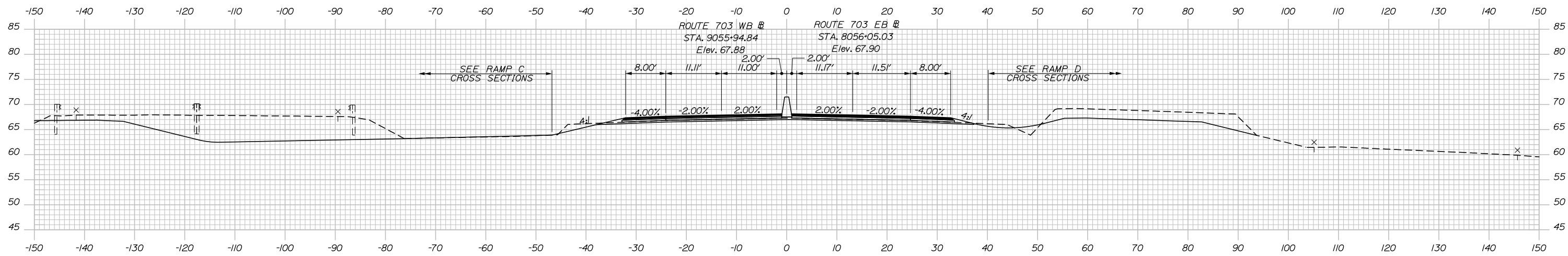
CONTRACT: 2021.07

SHEET NUMBER: XS-31

165 OF 431

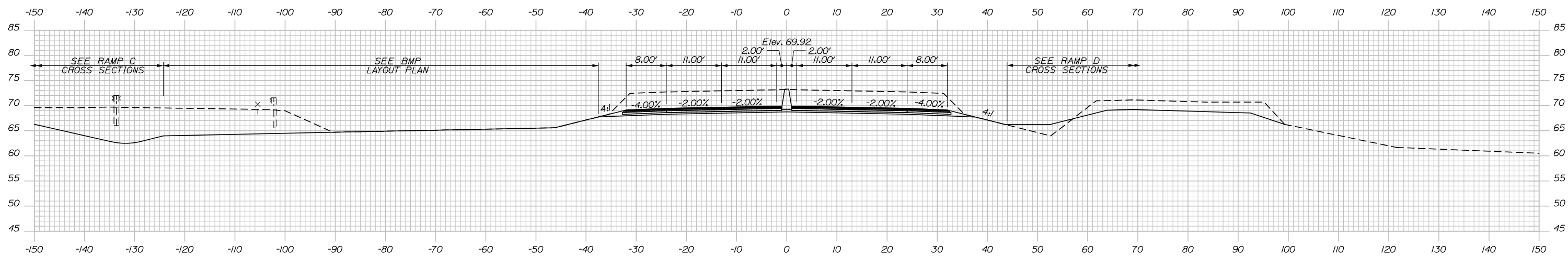
Date: 1/14/2021

F= 0.3 CY
SUR. EXC.= 54.5 CY



1056+00.00

F= 0.1 CY
SUR. EXC.= 303.6 CY



1055+50.00



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1055+50 TO STA. 1056+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	By	Date	Checked	By	Date
	CDH	09\20		JRH	09\20
Drawn	By	Date	In Charge of	By	Date
	CDH	09\20		RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

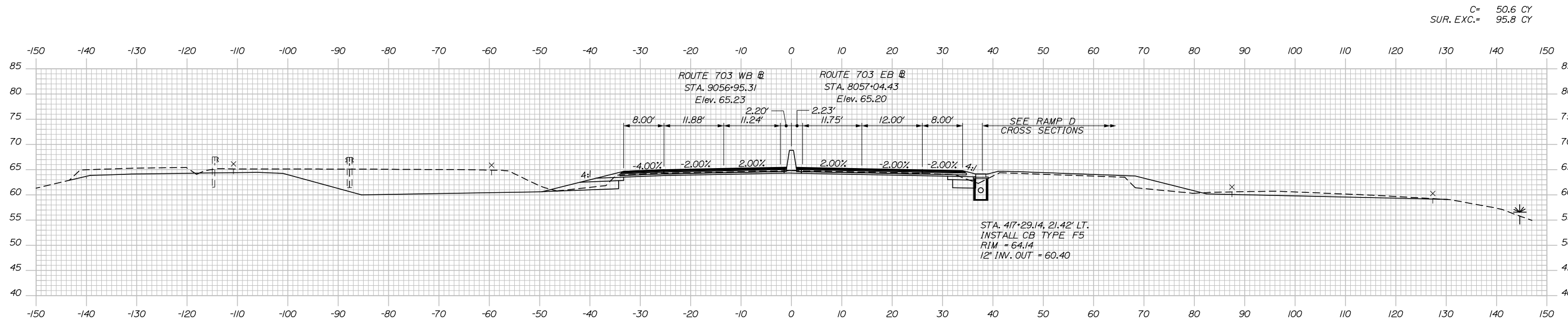
CONTRACT: 2021.07

SHEET NUMBER: XS-32

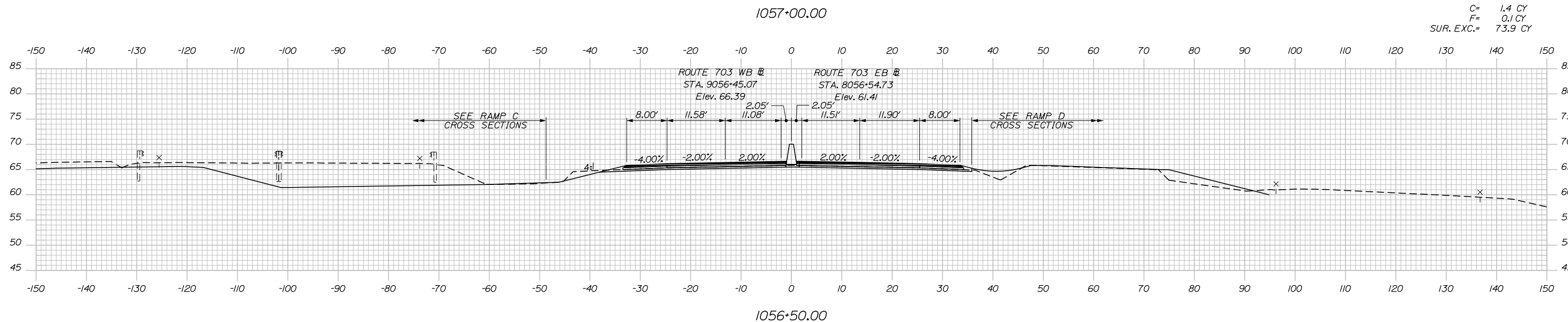
166 OF 431

Filename: Xsect - Route 703.dgn

Date: 1/14/2021

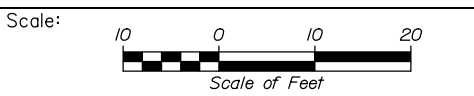


C= 50.6 CY
 SUR. EXC.= 95.8 CY



C= 1.4 CY
 F= 0.1 CY
 SUR. EXC.= 73.9 CY

Filename: Xsect - Route 703.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

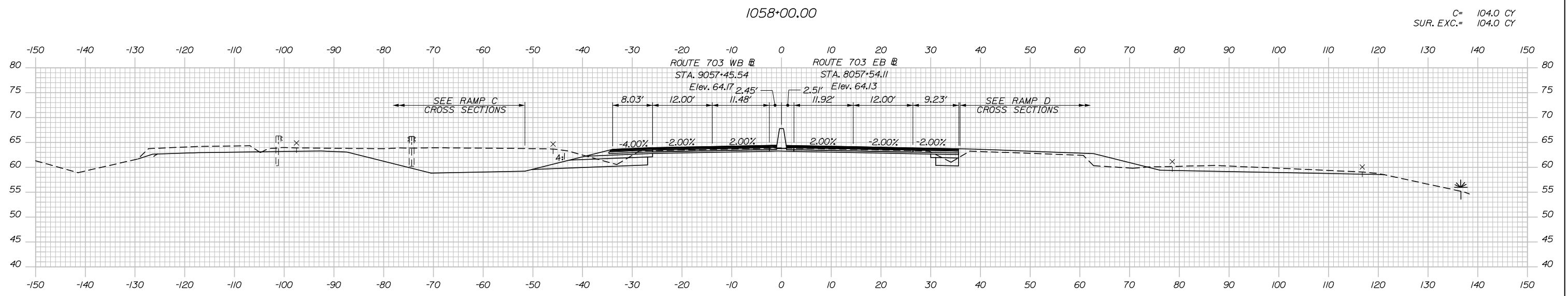
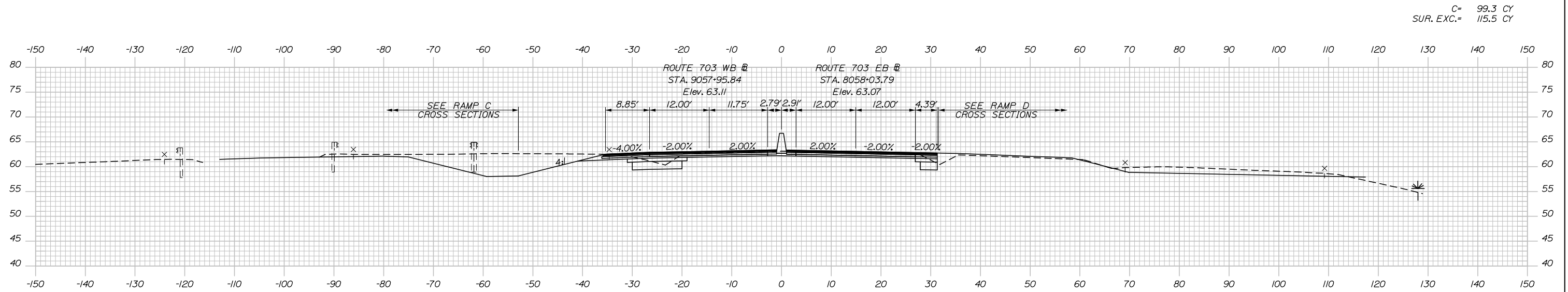
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

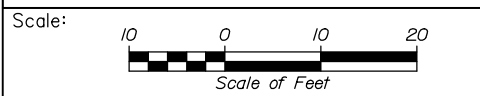
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1056+50 TO STA. 1057+00

SHEET NUMBER: XS-33
 CONTRACT: 2021.07
 167 OF 431

Date: 1/14/2021



Filename: Xsect - Route 703.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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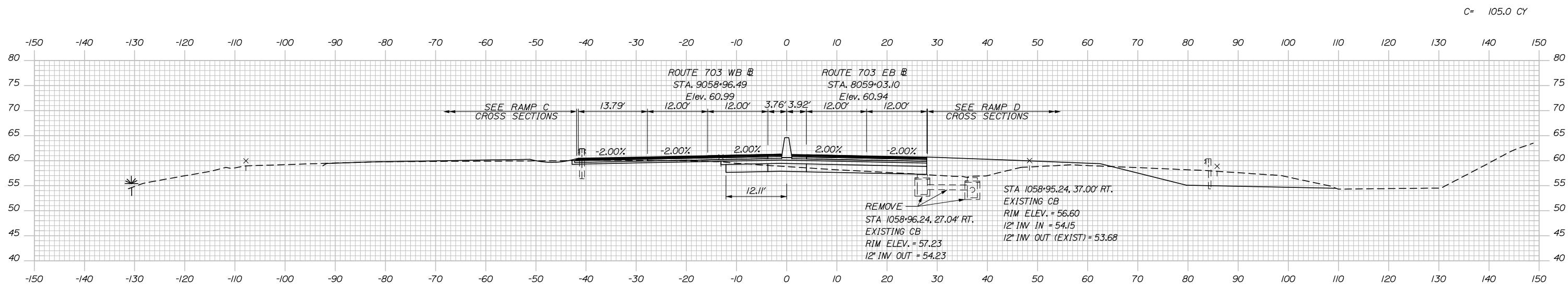
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1057+50 TO STA.1058+00**

SHEET NUMBER: XS-34
 CONTRACT: 2021.07
 168 OF 431

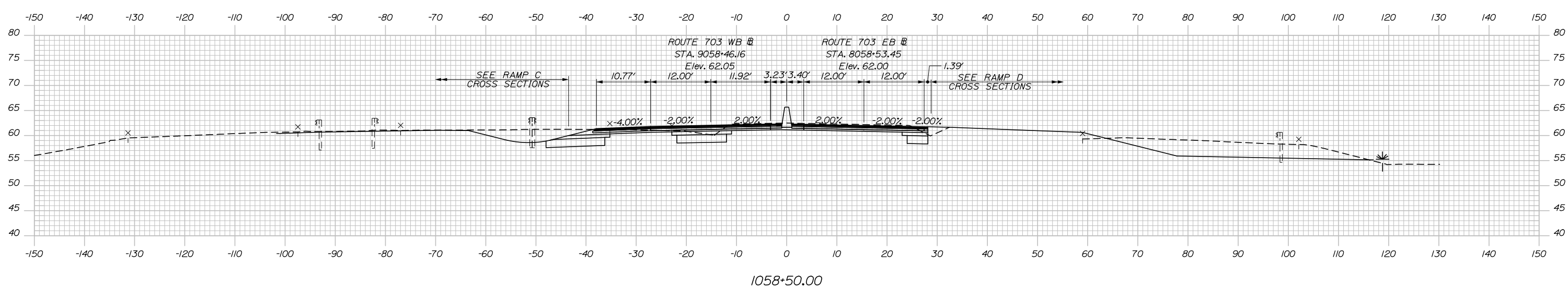
Date: 1/14/2021



C= 105.0 CY

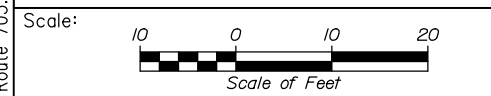
1059+00.00

C= 89.0 CY
SUR. EXC.= 123.4 CY



1058+50.00

Filename: Xsect - Route 703.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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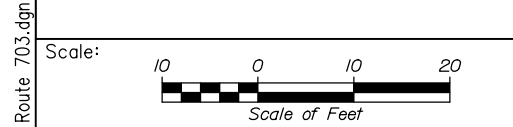
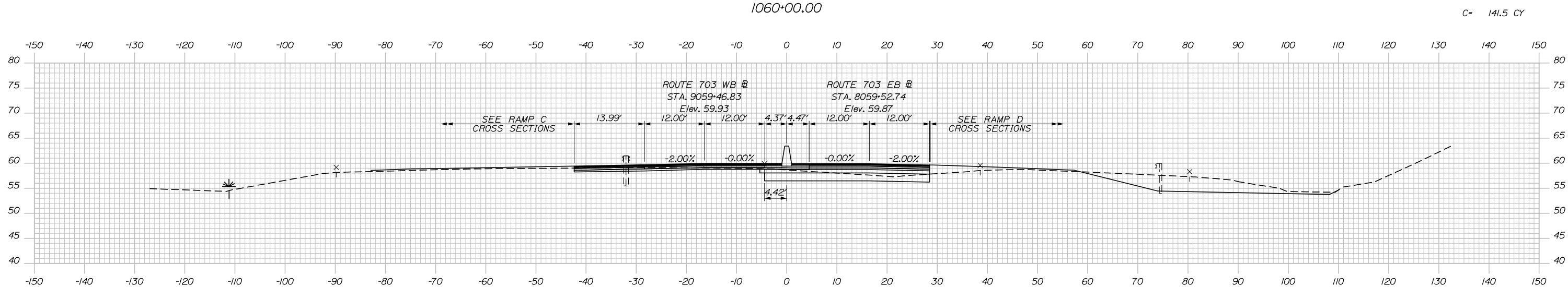
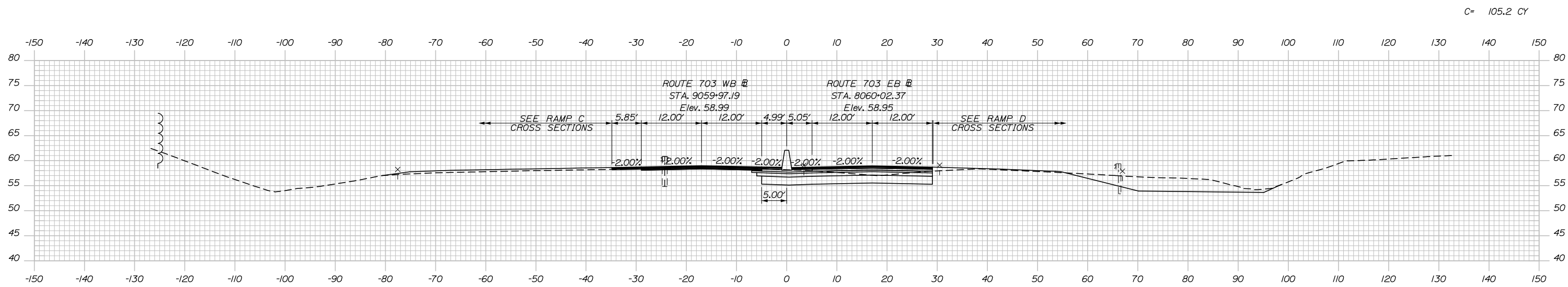
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1058+50 TO STA.1059+00**

SHEET NUMBER: XS-35
CONTRACT: 2021.07
169 OF 431

Date: 1/14/2021



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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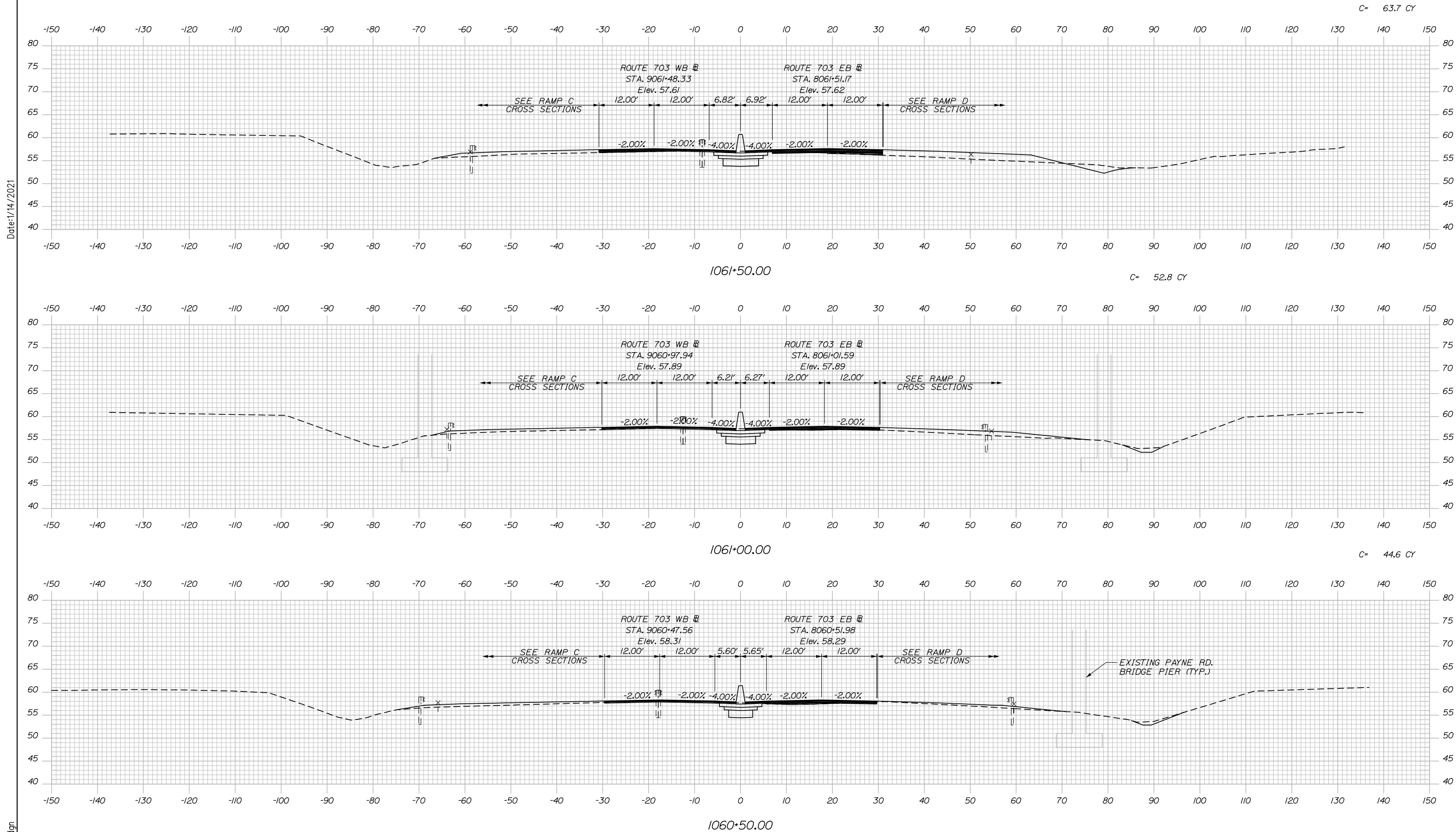
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1059+50 TO STA.1060+00**

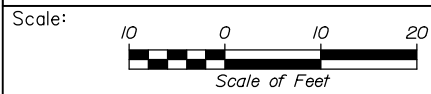
SHEET NUMBER: XS-36
 170 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Filename: Xsect - Route 703.dgn



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1060+50 TO STA. 1061+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

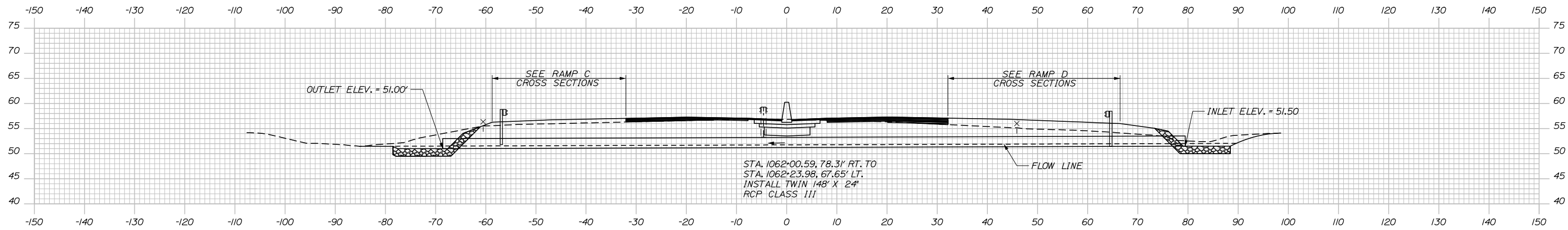
CONTRACT: 2021.07

SHEET NUMBER: XS-37

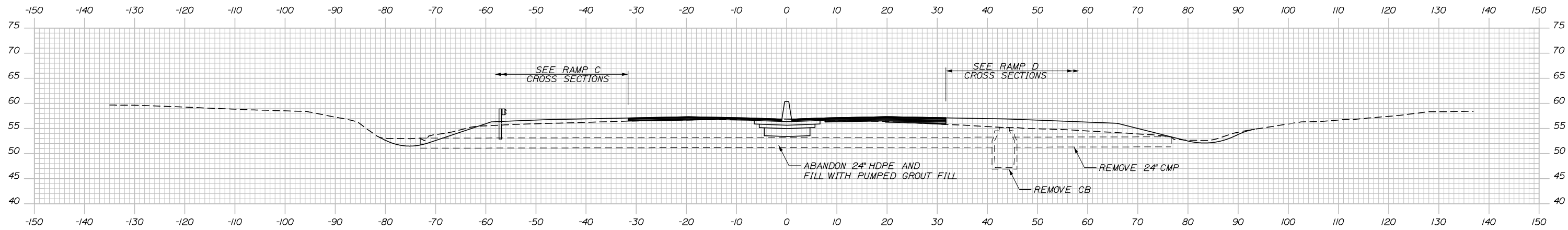
171 OF 431

Date: 1/14/2021

Filename: Xsect - Route 703.dgn

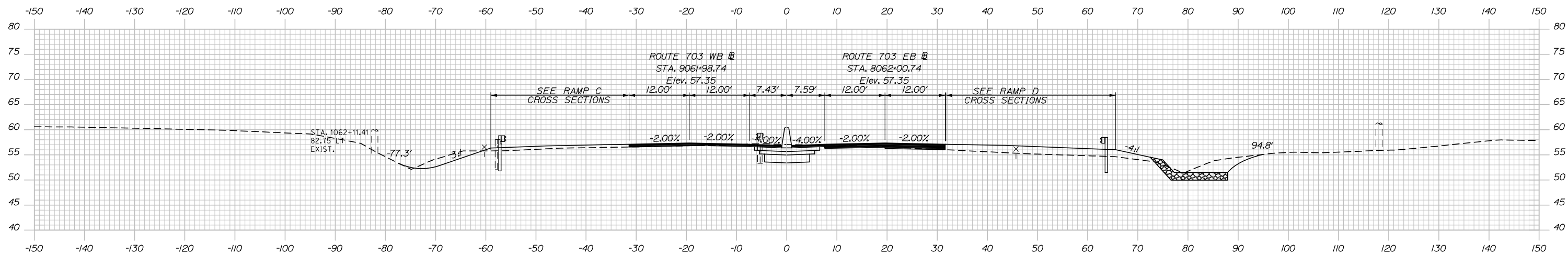


1062+12.98 (SKEWED)

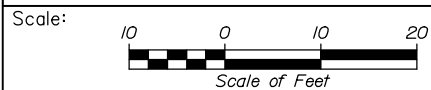


1062+01.15 (SKEWED)

C= 76.3 CY



1062+00.00



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1062+00 TO STA. 1062+13

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

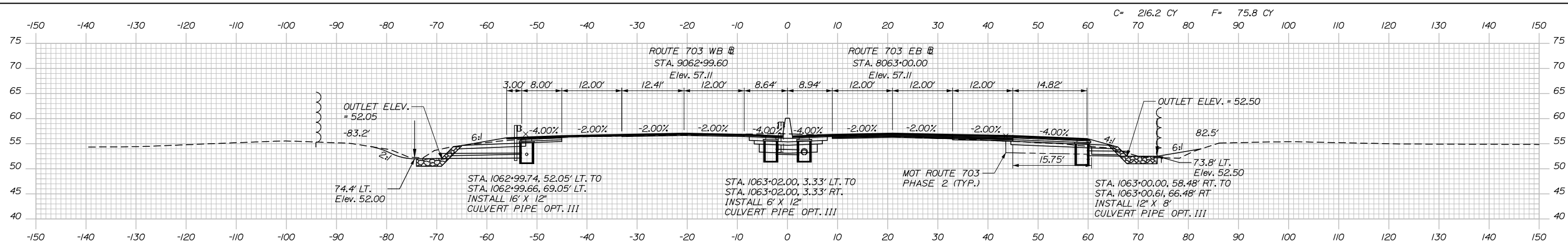
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

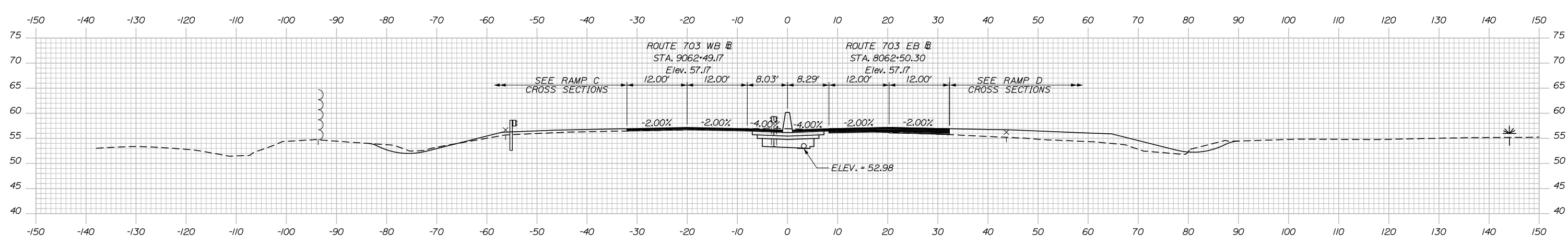
SHEET NUMBER: XS-38

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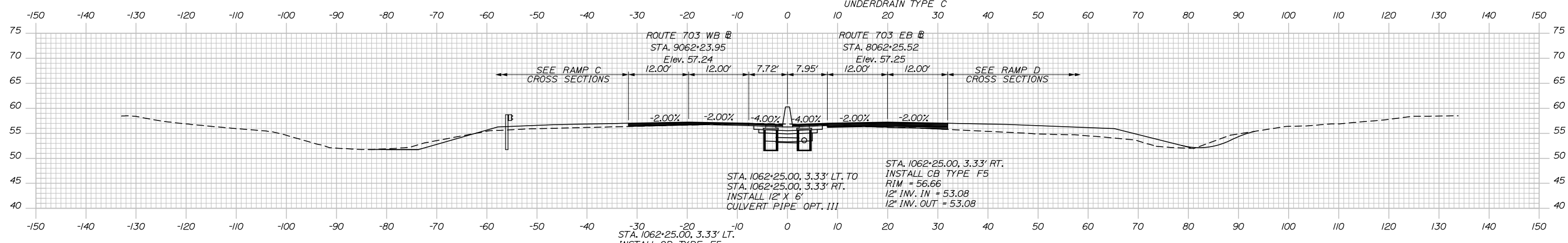
Date: 1/14/2021



STA. 1062+99.74, 52.05' LT. TO STA. 1062+99.66, 69.05' LT.
 INSTALL 16' X 12' CULVERT PIPE OPT. III
 STA. 1063+02.00, 3.33' LT. TO STA. 1063+02.00, 3.33' RT.
 INSTALL 6' X 12' CULVERT PIPE OPT. III
 STA. 1063+02.00, 3.33' RT.
 INSTALL CB TYPE F5
 RIM = 56.48
 12' INV. IN = 52.78
 12' INV. OUT = 52.78
 STA. 1063+00.00, 58.48' RT. TO STA. 1063+00.61, 66.48' RT.
 INSTALL 12' X 8' CULVERT PIPE OPT. III
 F= 130.2 CY
 SUR. EXC.= 3.6 CY



STA. 1062+25.00, 3.33' RT. TO STA. 1063+02.00, 3.33' RT.
 INSTALL 74' X 12' UNDERDRAIN TYPE C
 RIM = 56.66
 12' INV. IN = 53.08
 12' INV. OUT = 53.08



STA. 1062+25.00, 3.33' LT. TO STA. 1062+25.00, 3.33' RT.
 INSTALL 12' X 6' CULVERT PIPE OPT. III
 RIM = 56.66
 12' INV. IN = 53.08
 12' INV. OUT = 53.08

Scale: Scale of Feet

No.	Revision	By	Date

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By	Date	By	Date
Designed	CDH 09\20	Checked	JRH 09\20
Drawn	CDH 09\20	In Charge of	RAL 09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

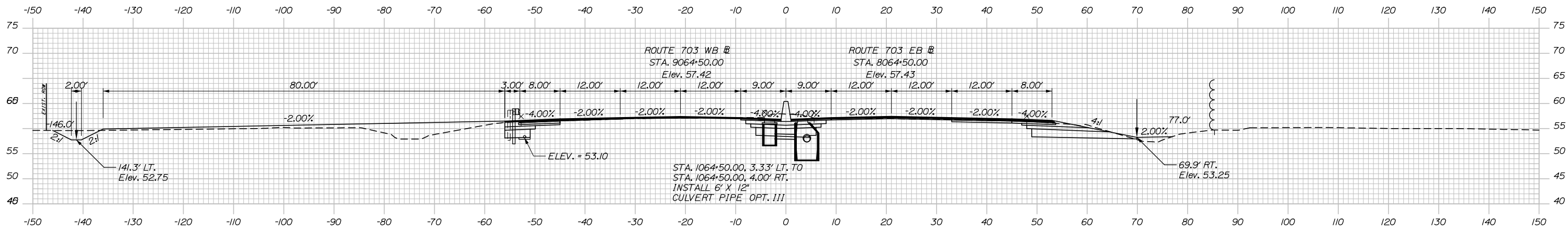
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1062+25 TO STA. 1063+00

SHEET NUMBER: XS-39
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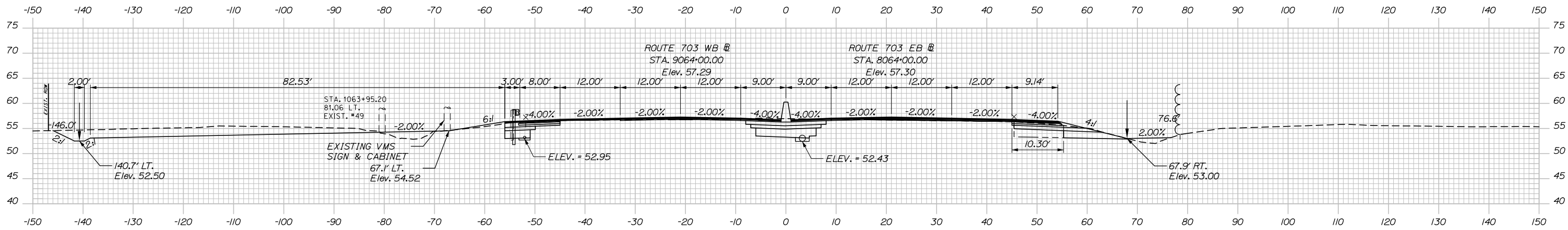
CONTRACT: 2021.07

C= 237.8 CY
F= 163.5 CY

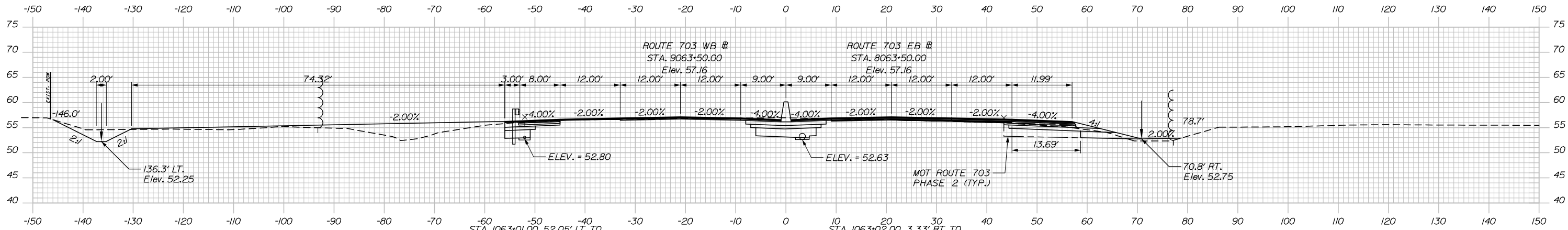
Date: 1/14/2021



C= 308.4 CY
F= 92.9 CY



C= 293.7 CY
F= 88.0 CY



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1063+50 TO STA. 1064+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

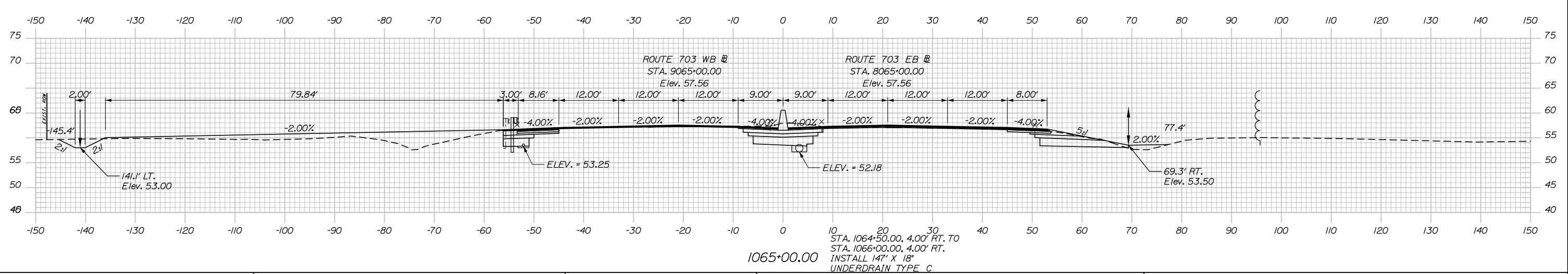
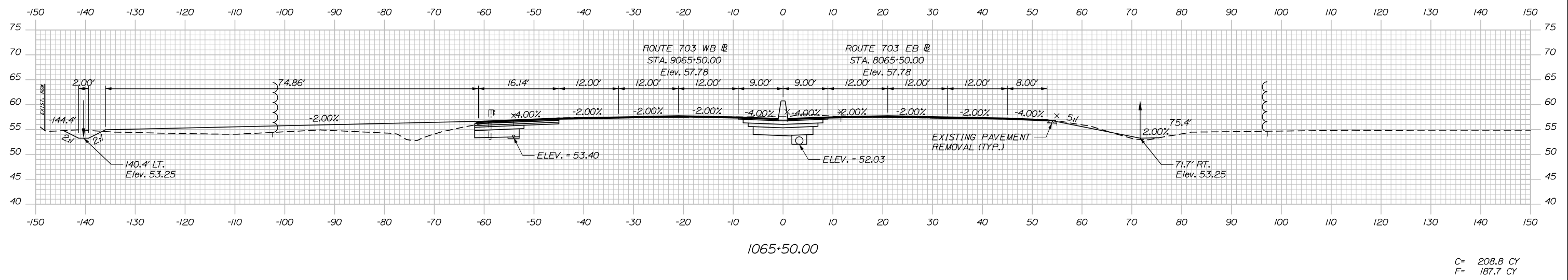
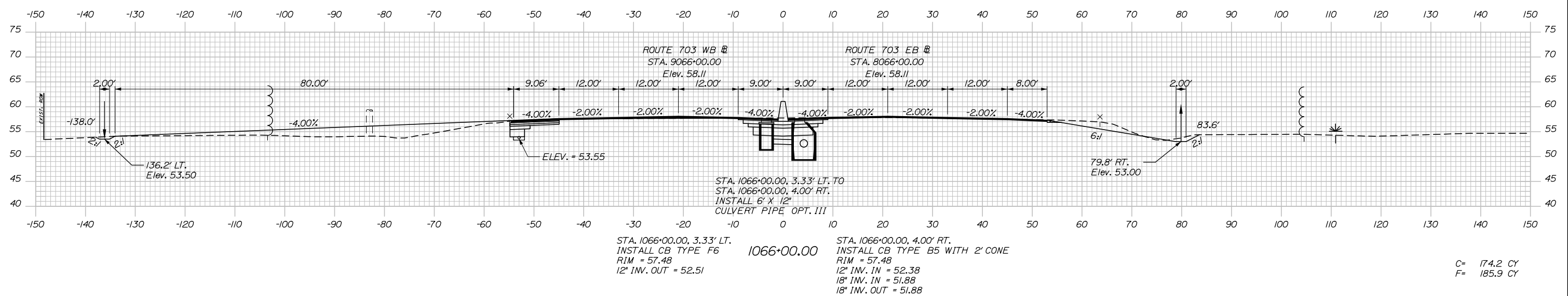
SHEET NUMBER: XS-40

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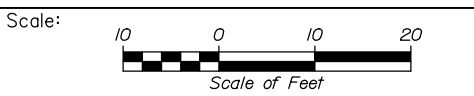
Filename: Xsect - Route 703.dgn

C= 181.6 CY
F= 150.1 CY

Date: 1/14/2021



Filename: Xsect - Route 703.dgn



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No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

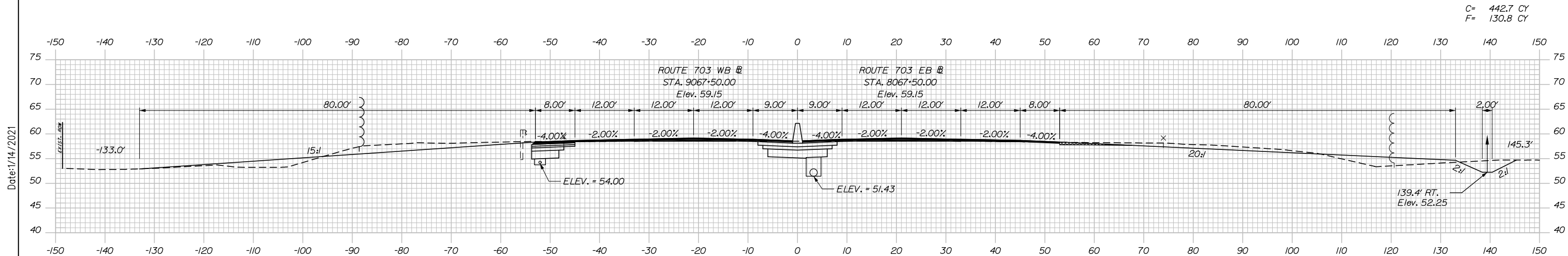
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

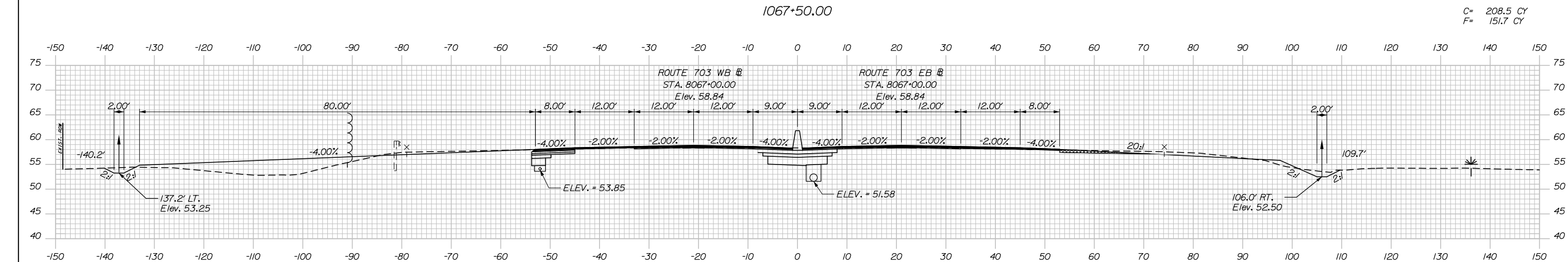
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1065+00 TO STA. 1066+00

SHEET NUMBER: XS-41
CONTRACT: 2021.07
175 OF 431

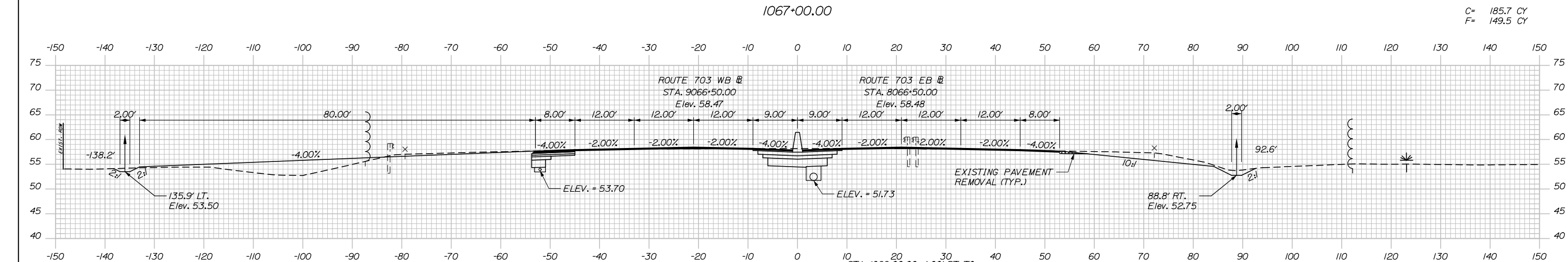
Date: 1/14/2021



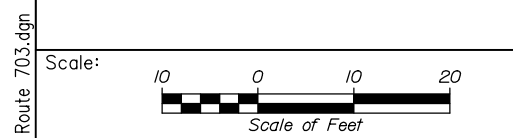
C= 442.7 CY
 F= 130.8 CY



C= 208.5 CY
 F= 151.7 CY



C= 185.7 CY
 F= 149.5 CY



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No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

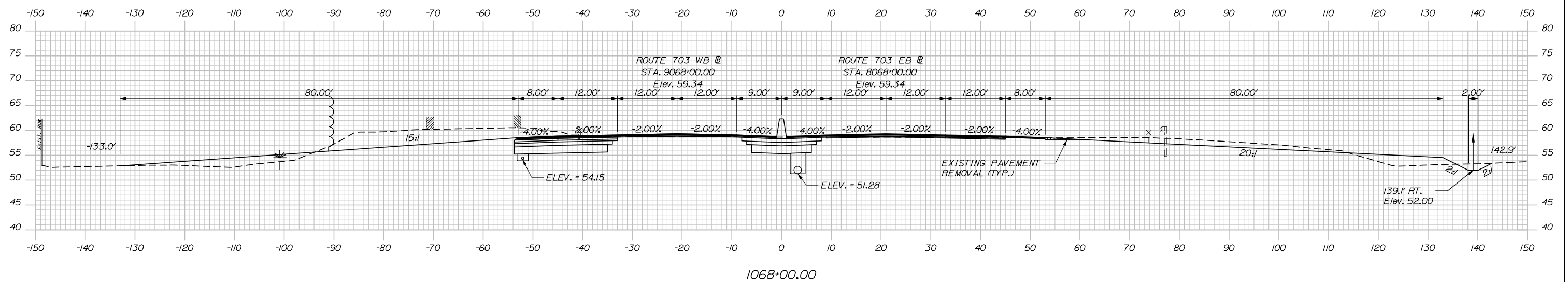
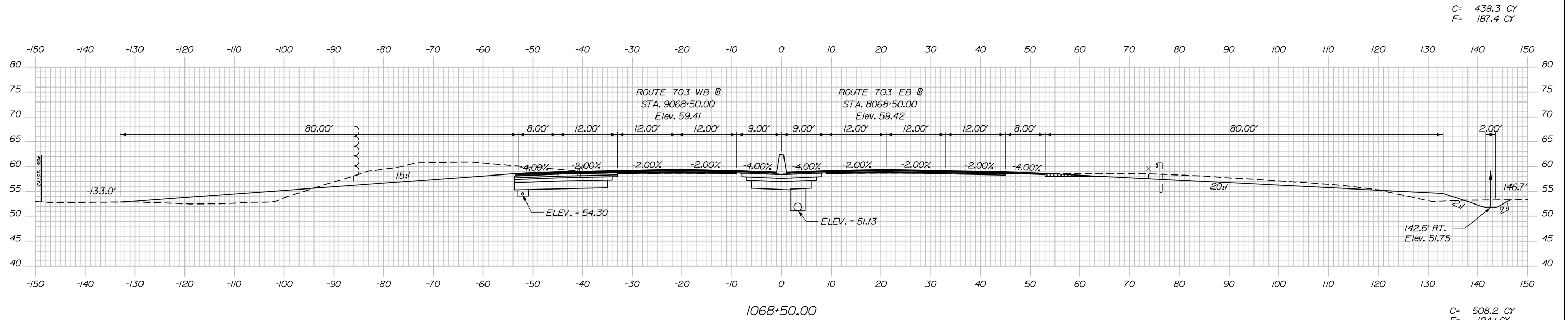
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1066+50 TO STA. 1067+50

SHEET NUMBER: XS-42
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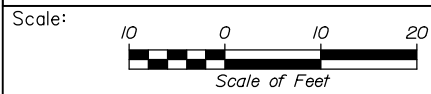
CONTRACT: 2021.07

Filename: Xsect - Route 703.dgn

Date: 1/14/2021



Filename: Xsect - Route 703.dgn



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THE GOLD STAR
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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1068+00 TO STA. 1068+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

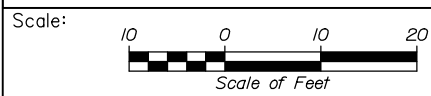
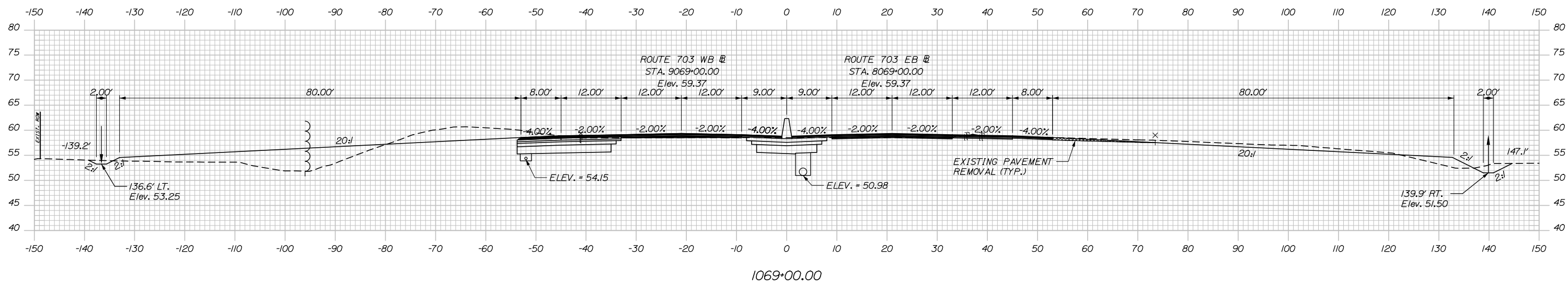
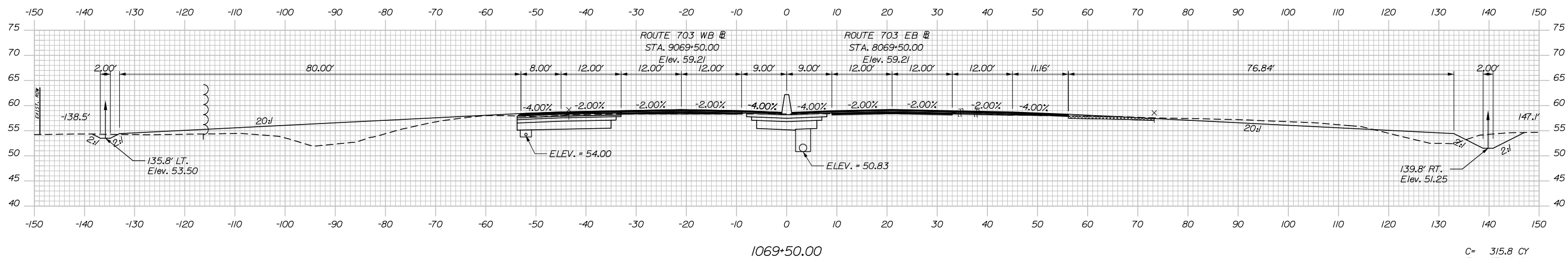
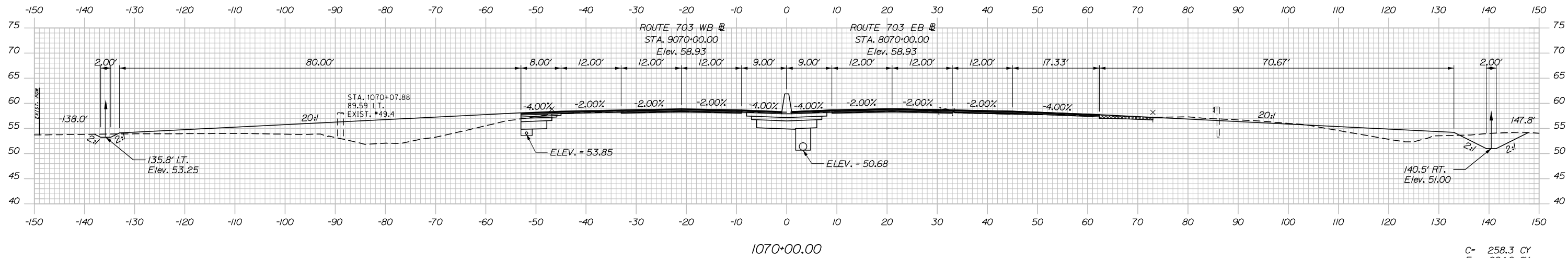
CONTRACT: 2021.07

SHEET NUMBER: XS-43

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C= 174.6 CY
F= 371.6 CY

Date: 1/14/2021



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1069+00 TO STA. 1070+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

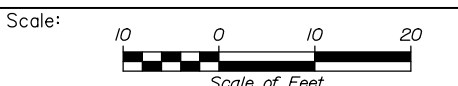
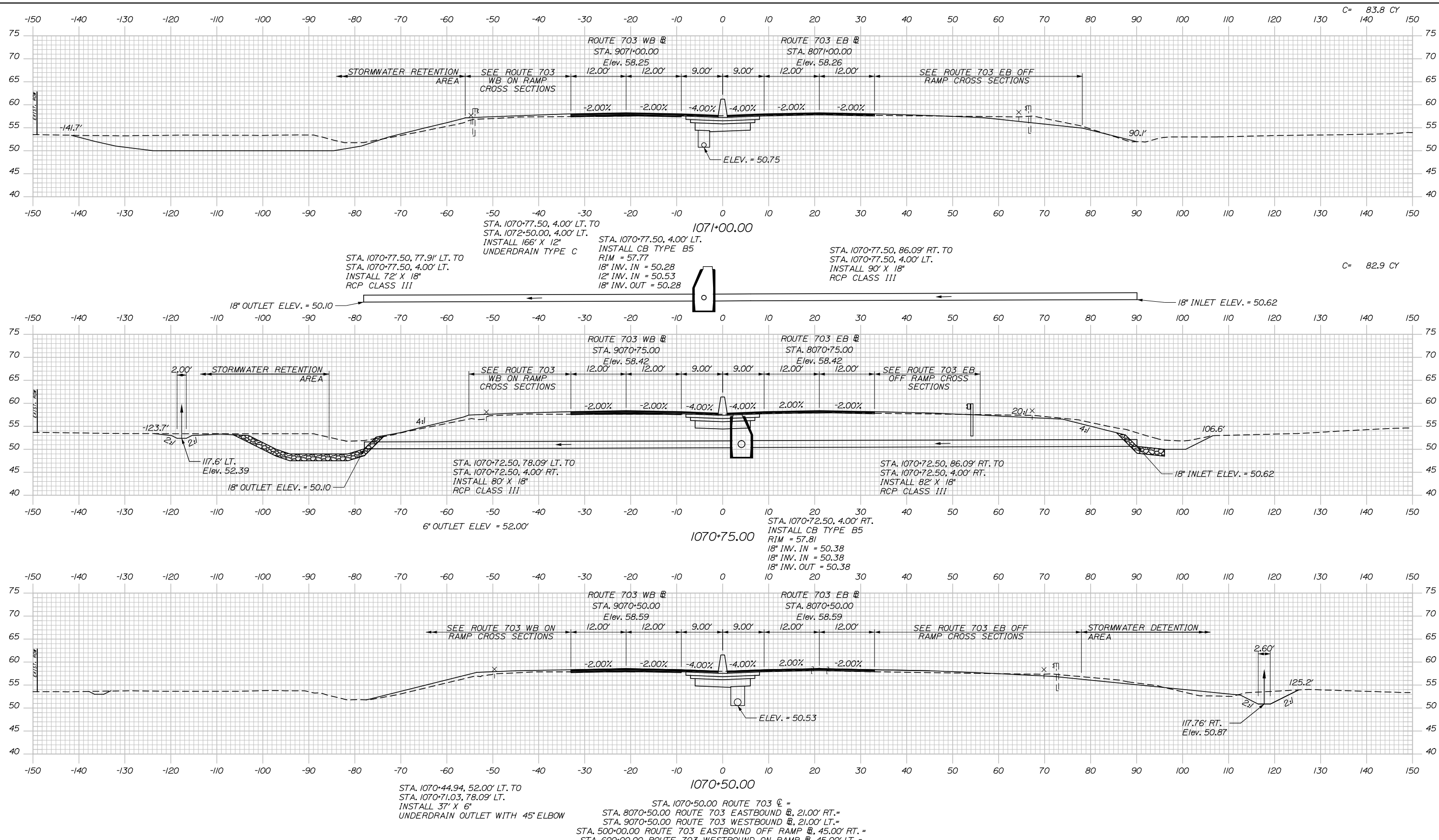
SHEET NUMBER: XS-44

178 OF 431

Filename: Xsect - Route 703.dgn

Date: 1/14/2021

Filename: Xsect - Route 703.dgn



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No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

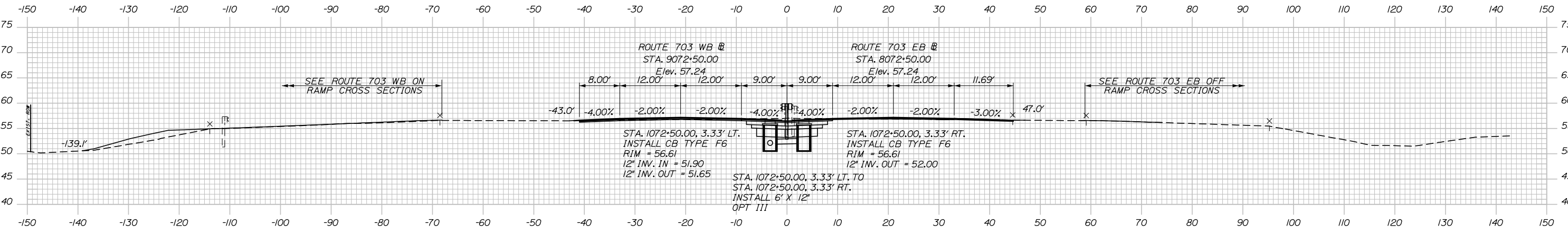
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - ROUTE 703
 STA. 1070+50 TO STA. 1071+00

SHEET NUMBER: XS-45
 179 OF 431

CONTRACT: 2021.07

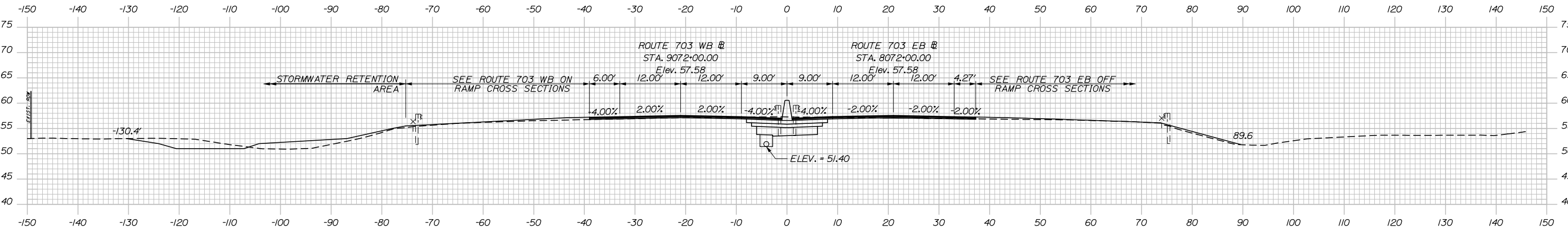
Date: 1/14/2021

C= 35.0 CY
F= 0.6 CY



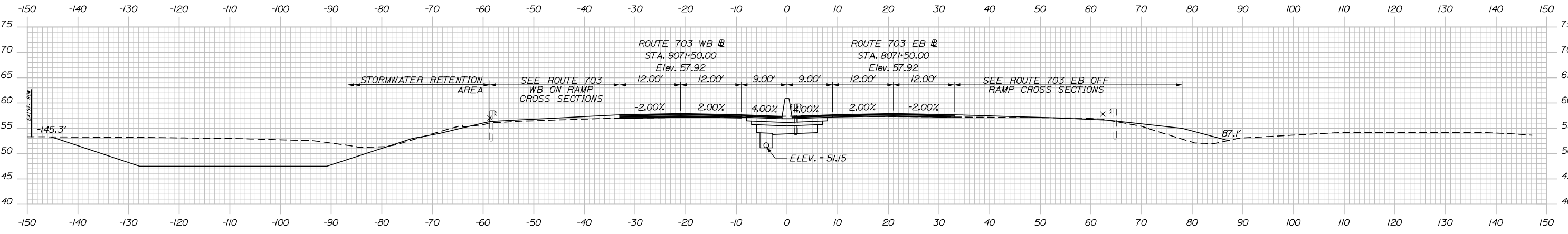
1072+50.00

C= 91.5 CY
F= 0.1 CY

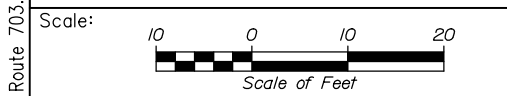


1072+00.00

C= 88.1 CY



1071+50.00



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

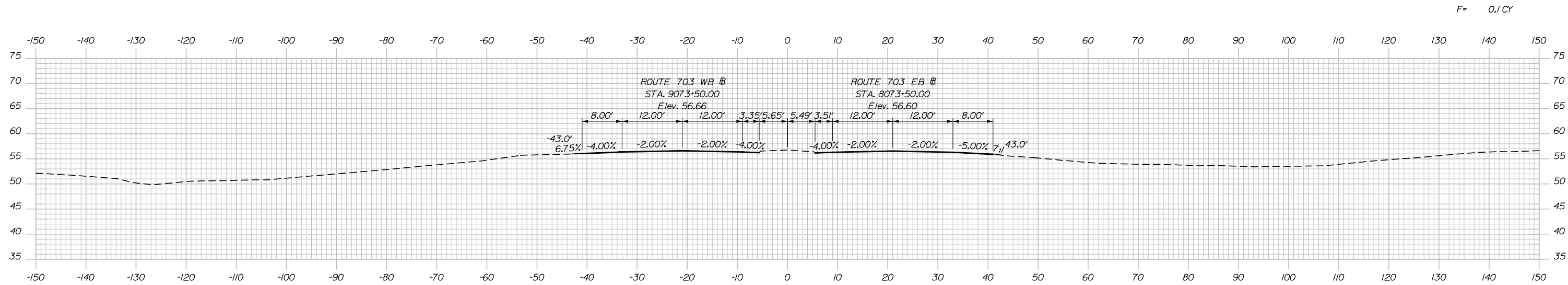
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1071+50 TO STA.1072+50

SHEET NUMBER: XS-46
 180 OF 431

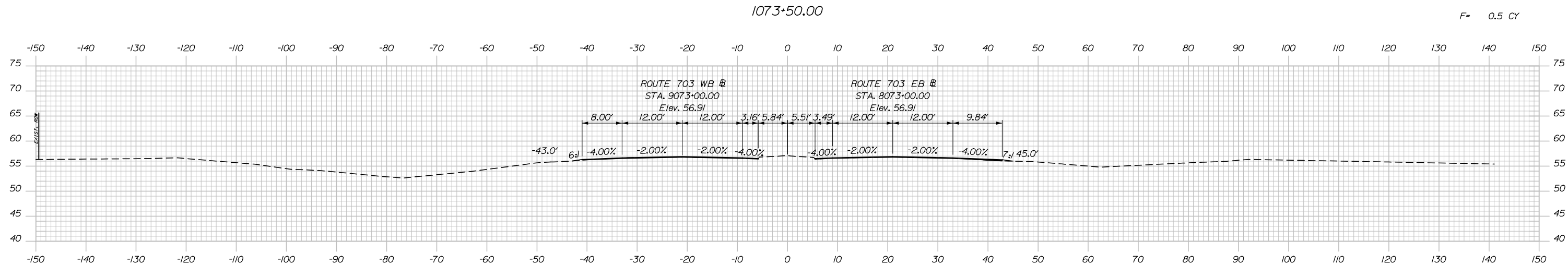
CONTRACT: 2021.07

Filename: Xsect - Route 703.dgn

Date: 1/14/2021

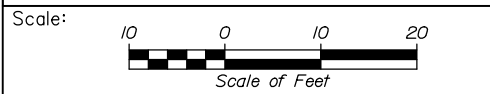


F= 0.1 CY



F= 0.5 CY

Filename: Xsect - Route 703.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
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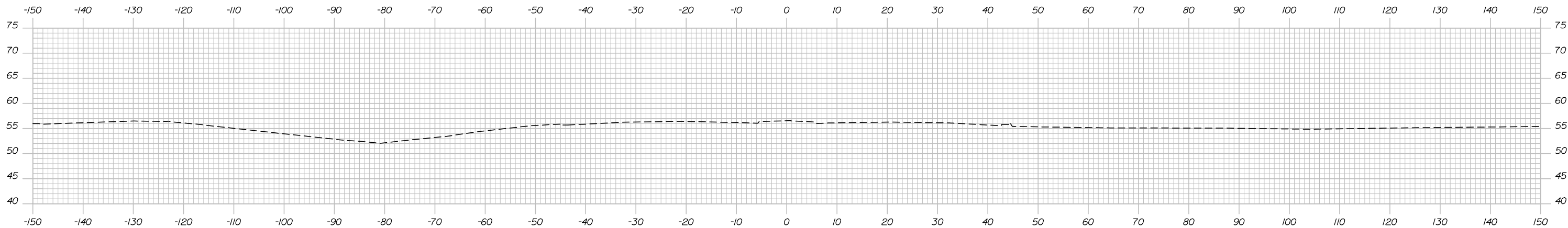
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1073+00 TO STA. 1073+50**

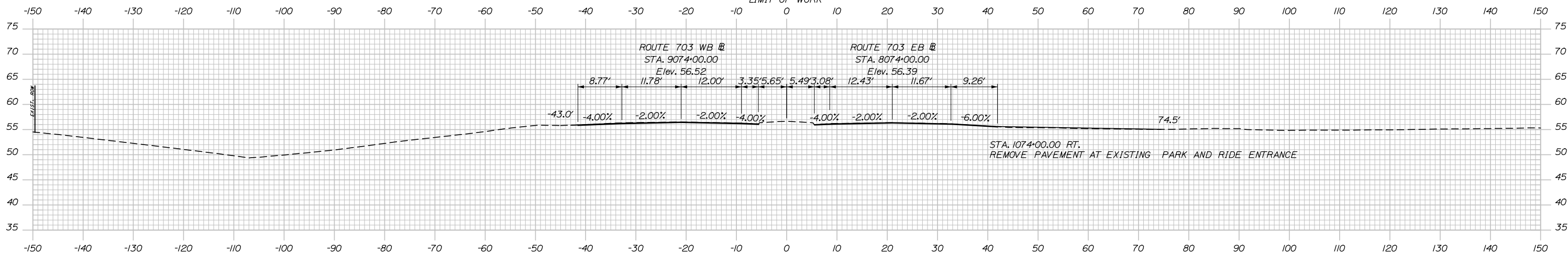
SHEET NUMBER: XS-47
CONTRACT: 2021.07
181 OF 431

Date: 1/14/2021



1074+50.00

STA. 1074+20.50
LIMIT OF WORK



1074+00.00



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ROUTE 703
STA. 1074+00 TO STA. 1074+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
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Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

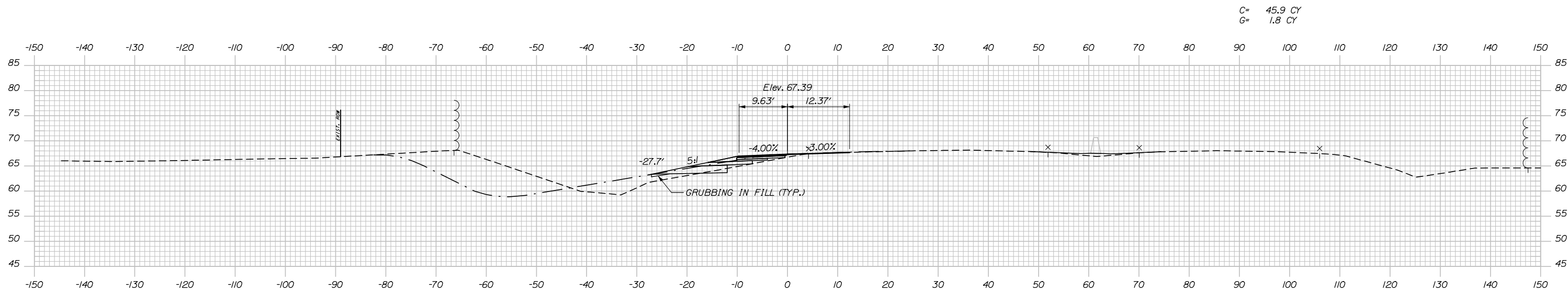
CONTRACT: 2021.07

SHEET NUMBER: XS-48

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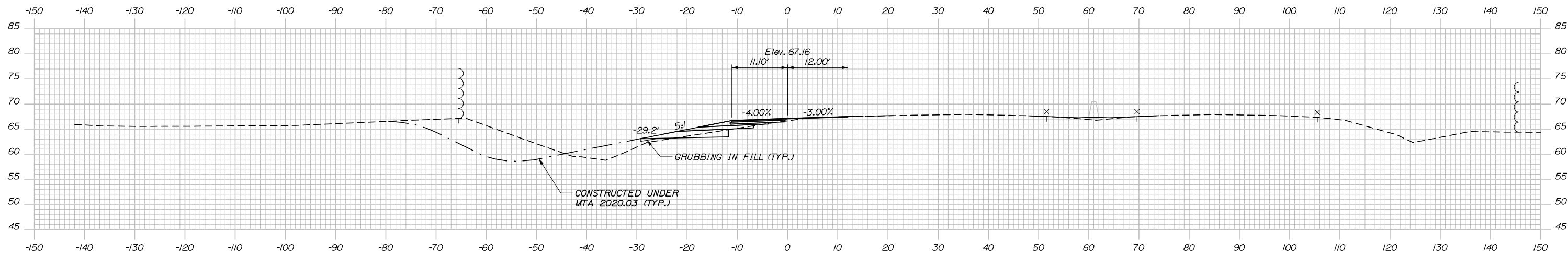
Filename: Xsect - Route 703.dgn

Date: 1/14/2021



100+50.00

C= 61.9 CY
G= 1.8 CY



100+00.00

LIMIT OF WORK

STA. 100+00.00 RAMP A @ =
STA. 2200+51.51, MAINE TURNPIKE @ 61.00' LT.

Filename: Xsect - Ramp A.dgn



Designed by:



HNTB CORPORATION
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Westbrook, ME 04092
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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP A
STA. 100+00 TO STA. 100+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	EDD	09\20	
	Checked	JRH	09\20
	By	Date	
	CDH	09\20	
	In Charge of	RAL	09\20

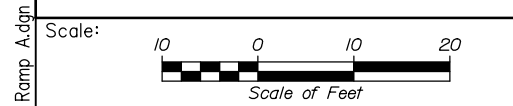
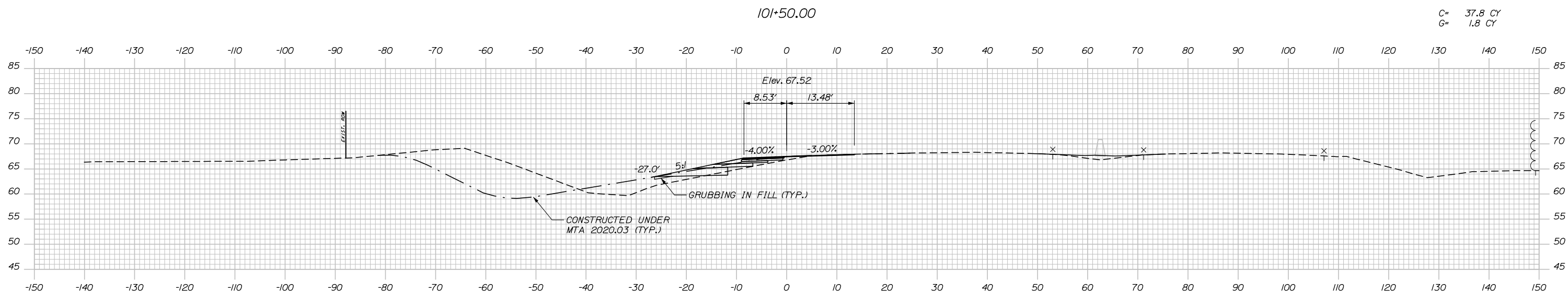
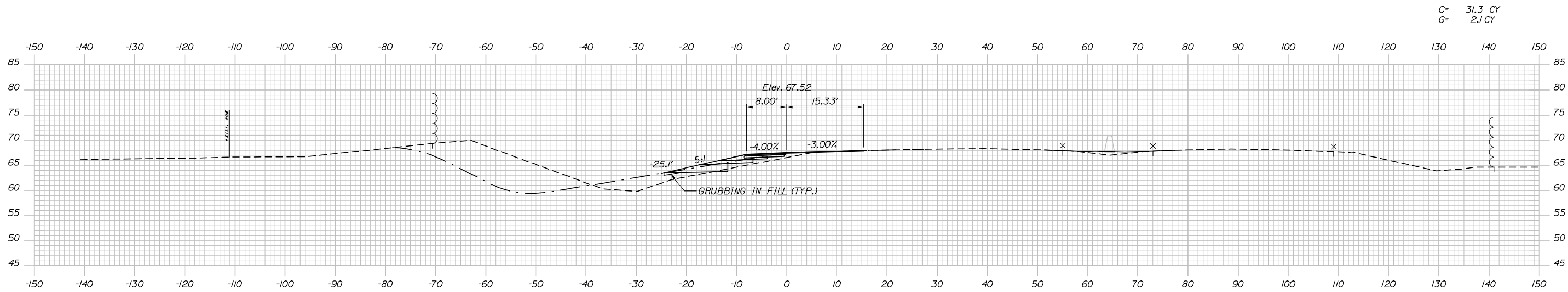
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: XS-49

183 OF 431

Date: 1/14/2021



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP A
STA. 101+00 TO STA. 101+50**

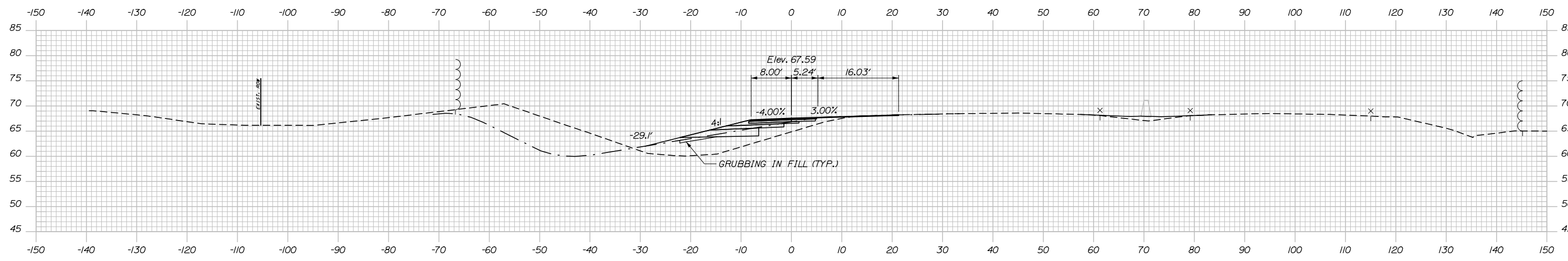
SHEET NUMBER: XS-50
184 OF 431

CONTRACT: 2021.07

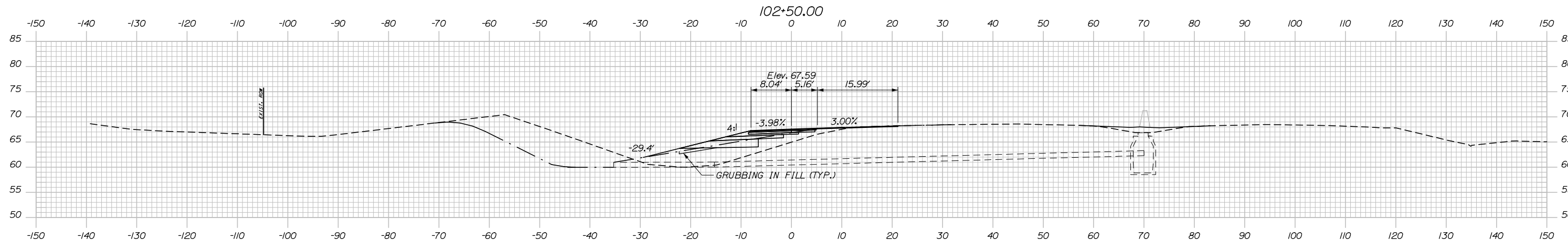
Filename: Xsect - Ramp A.dgn

C= 153.5 CY
 F= 37.5 CY
 G= 9.4 CY

Date: 1/14/2021

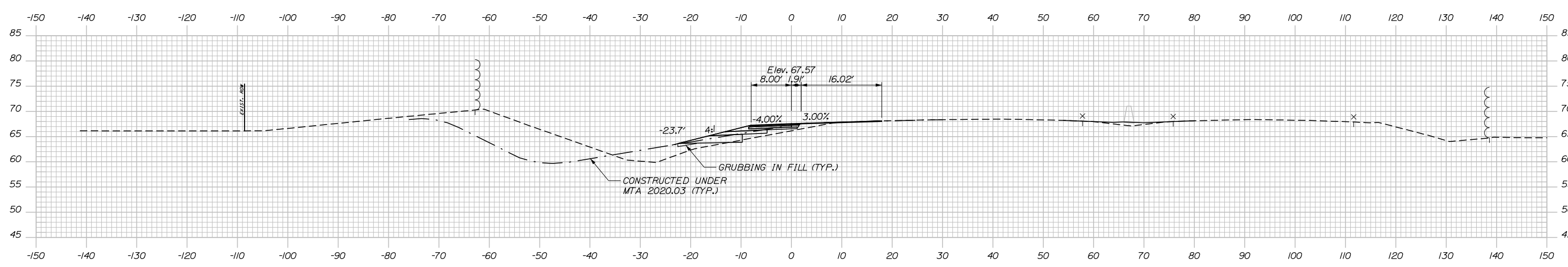


102+50.00

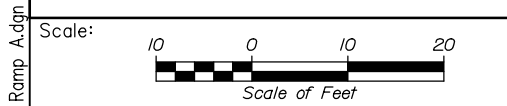


102+49.02 (SKEWED)

C= 28.8 CY
 F= 2.9 CY
 G= 3.8 CY



102+00.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP A
STA. 102+00 TO STA. 102+50

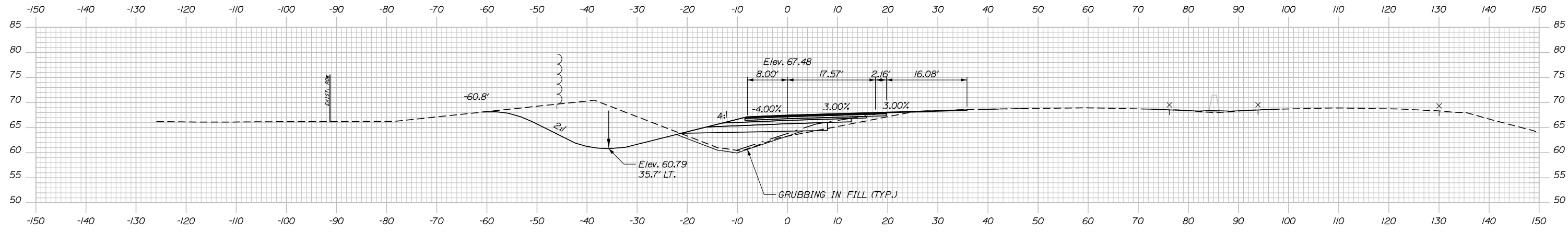
SHEET NUMBER: XS-51
 185 OF 431

CONTRACT: 2021.07

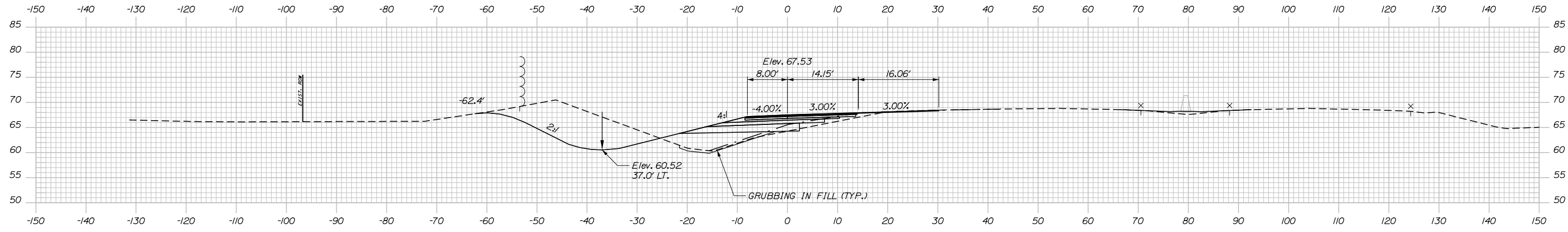
Filename: Xsect - Ramp A.dgn

C= 364.3 CY
 F= 79.0 CY
 G= 23.0 CY

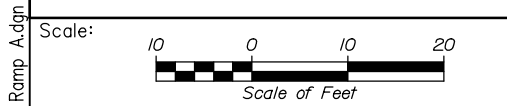
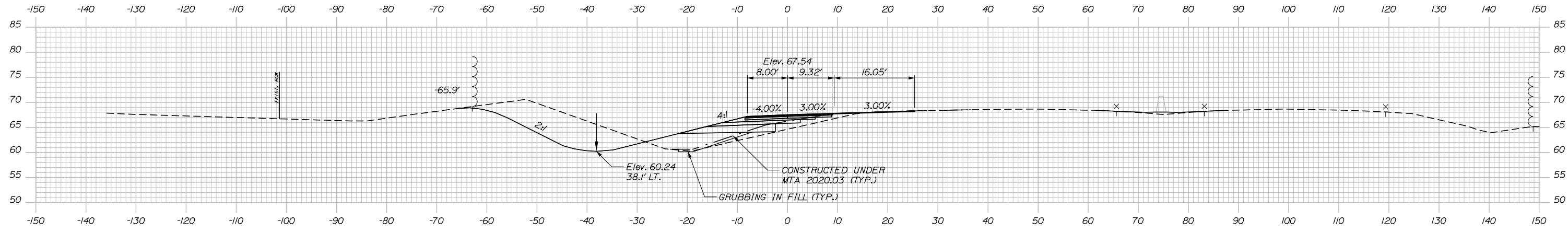
Date: 1/14/2021



C= 331.4 CY
 F= 81.2 CY
 G= 20.5 CY



C= 293.3 CY
 F= 74.8 CY
 G= 15.5 CY



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	CDH 09\20	In Charge of	RAL 09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP A
 STA. 103+00 TO STA. 104+00**

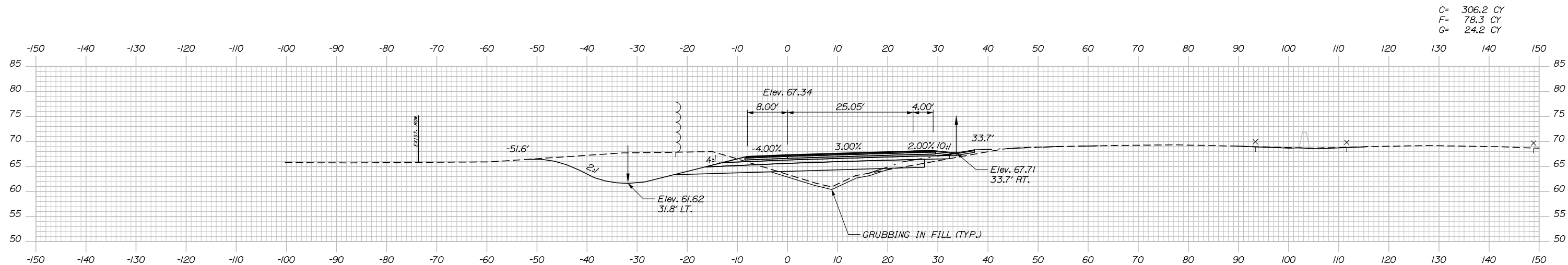
CONTRACT: 2021.07

SHEET NUMBER: XS-52

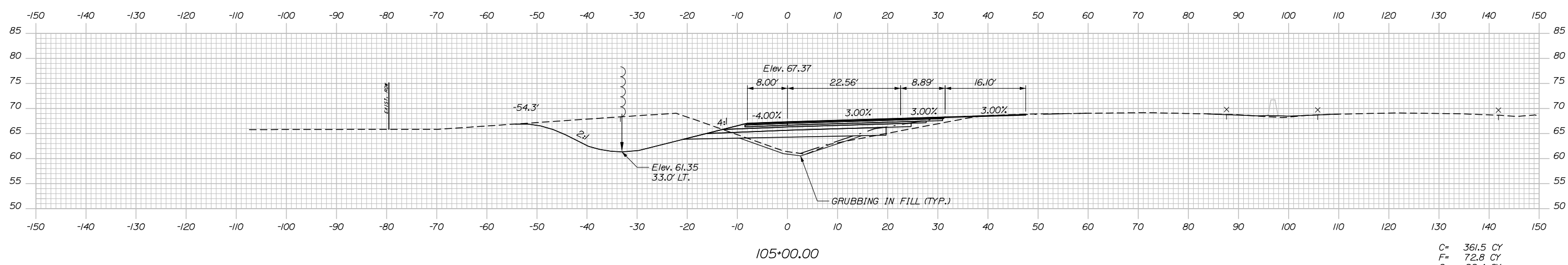
186 OF 431

Filename: Xsect - Ramp A.dgn

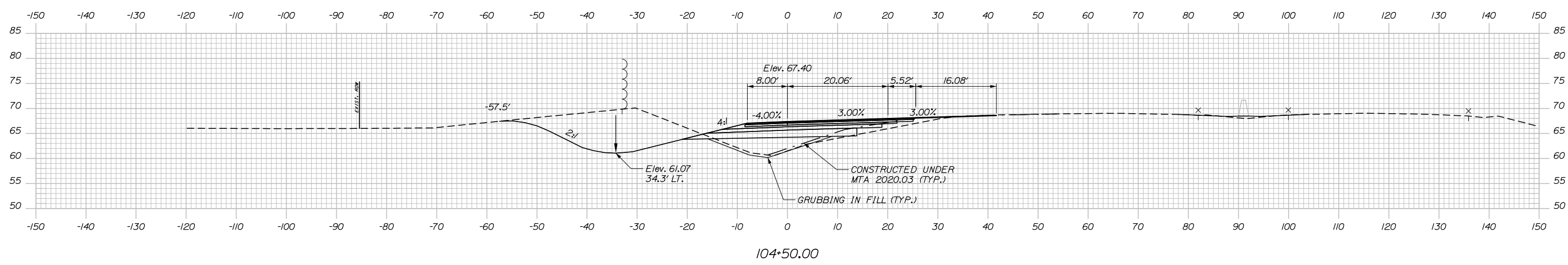
Date: 1/14/2021



105+50.00



105+00.00



104+50.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

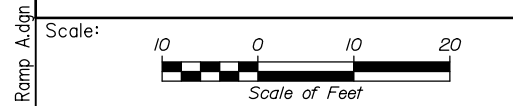
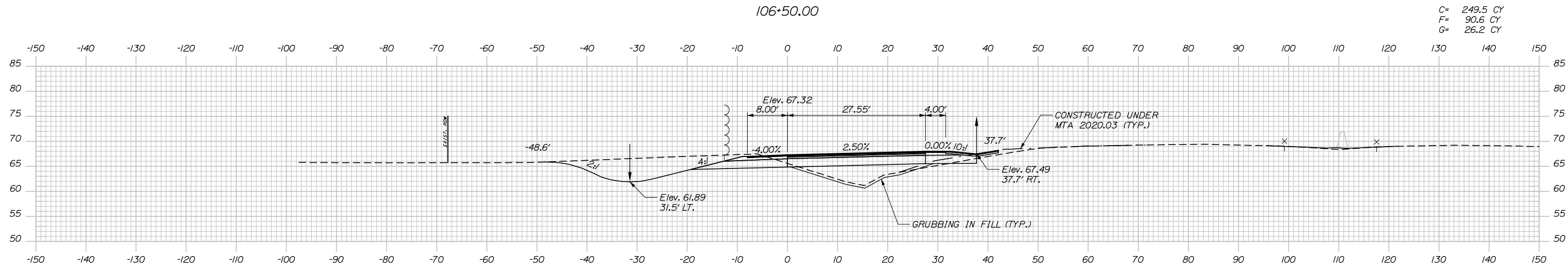
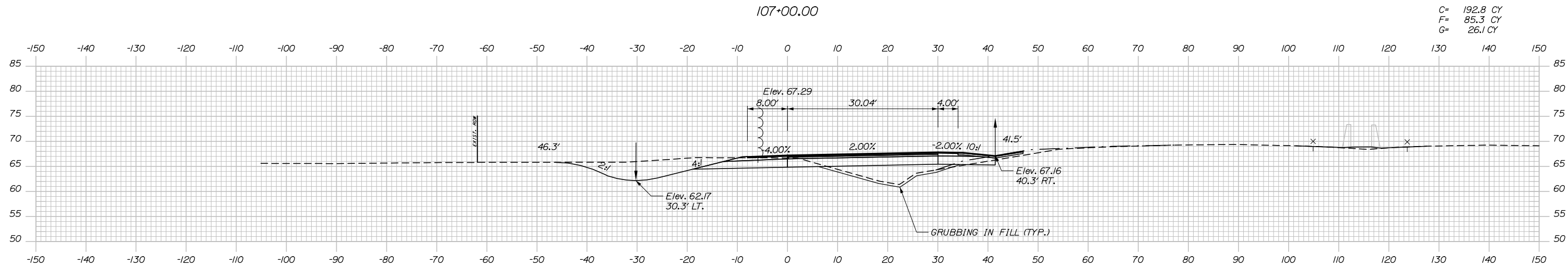
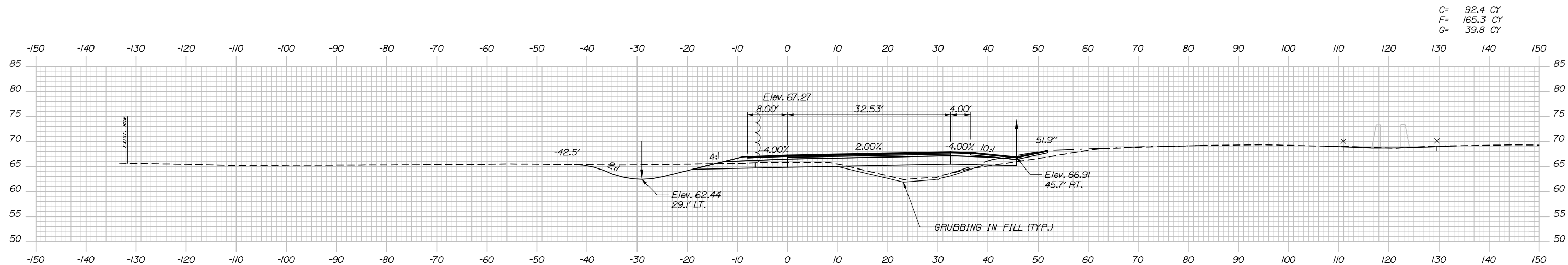
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP A
 STA. 104+50 TO STA. 105+50

SHEET NUMBER: XS-53
 187 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

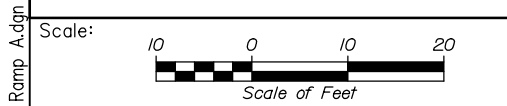
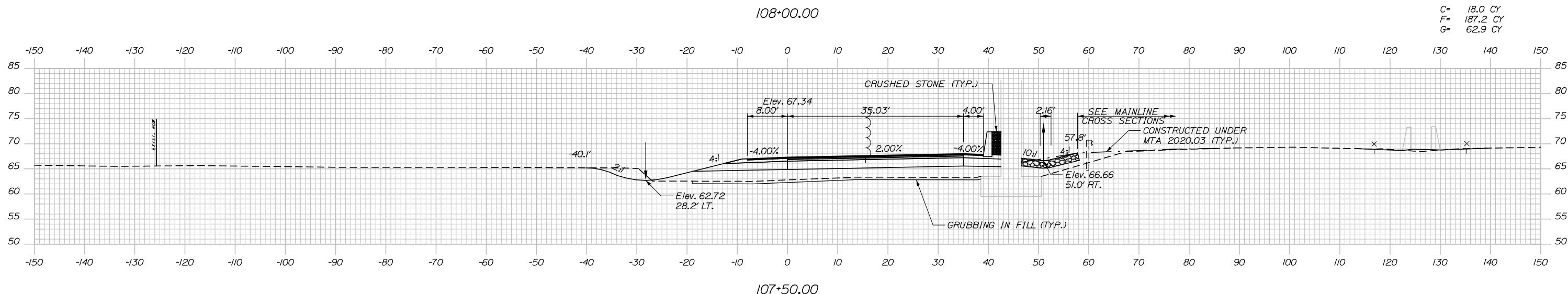
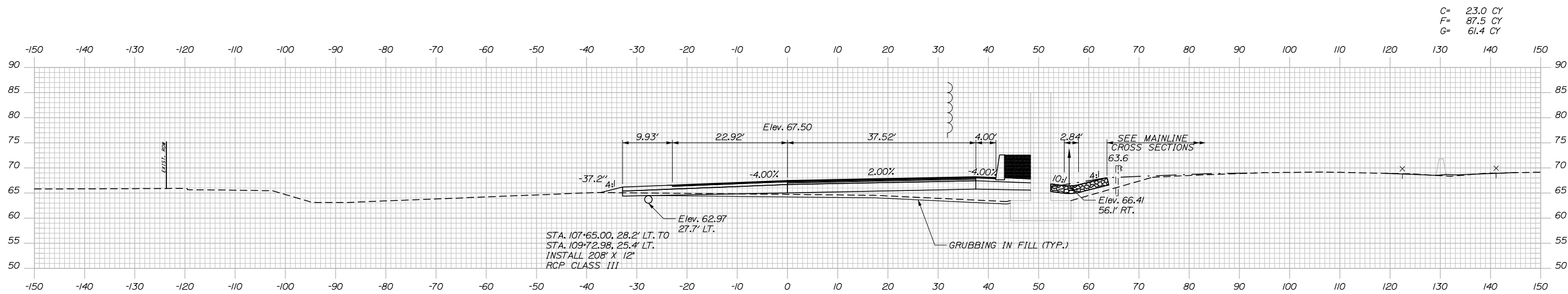
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP A
 STA. 106+00 TO STA. 107+00**

SHEET NUMBER: XS-54
 188 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

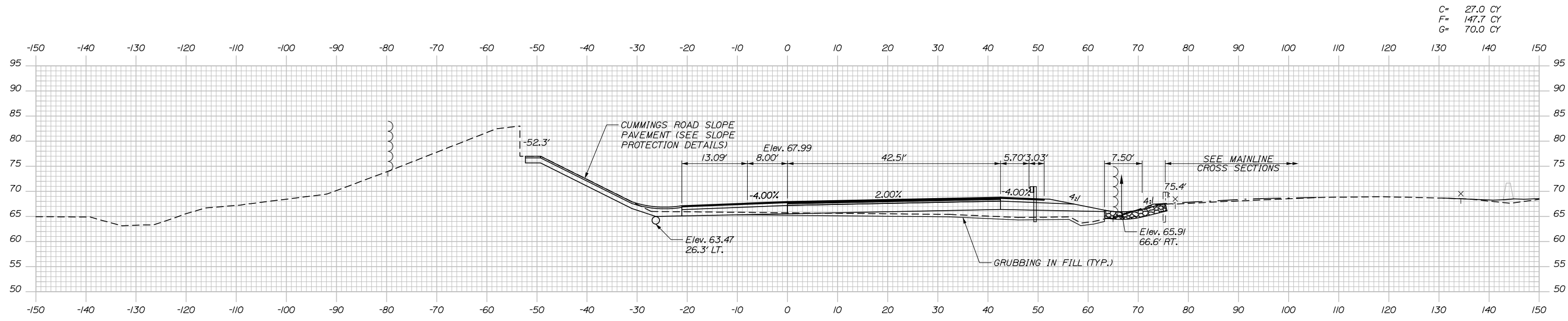
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP A
 STA. 107+50 TO STA. 108+00

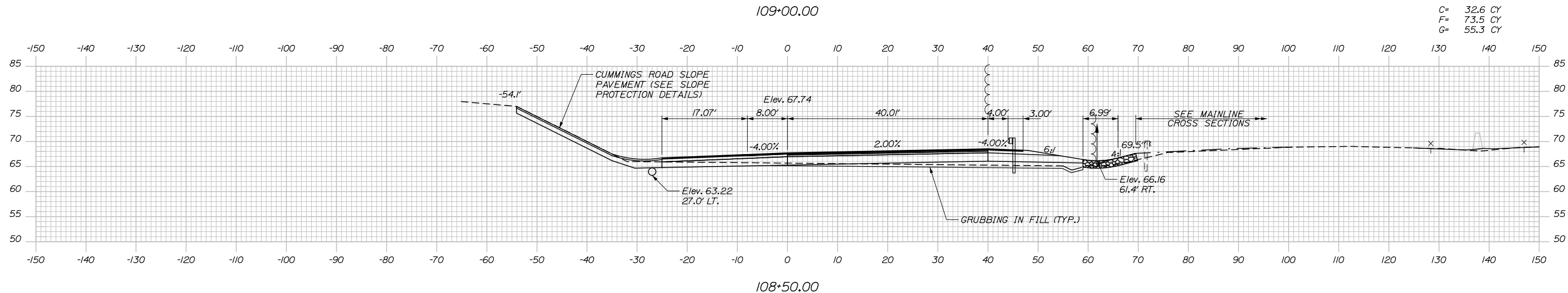
SHEET NUMBER: XS-55
 189 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



C= 27.0 CY
F= 147.7 CY
G= 70.0 CY



C= 32.6 CY
F= 73.5 CY
G= 55.3 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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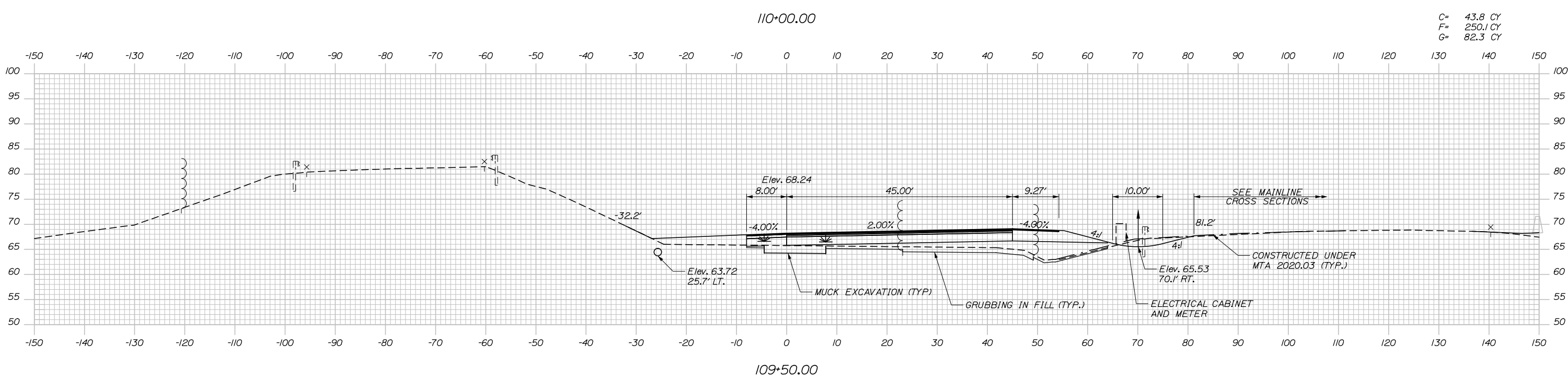
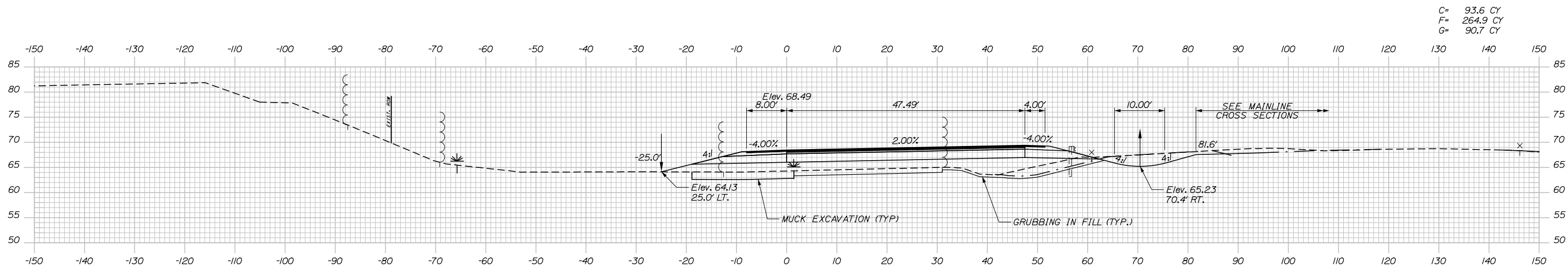
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP A
STA. 108+50 TO STA. 109+00

SHEET NUMBER: XS-56
CONTRACT: 2021.07
190 OF 431

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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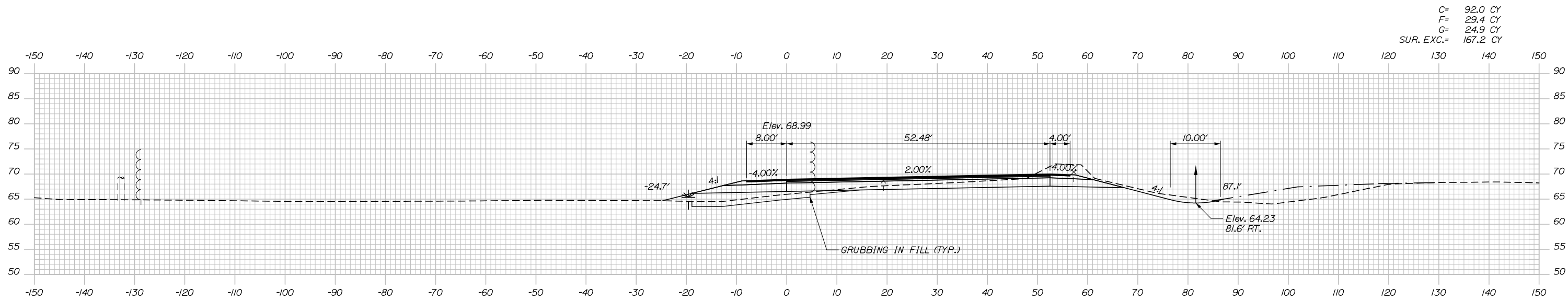
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

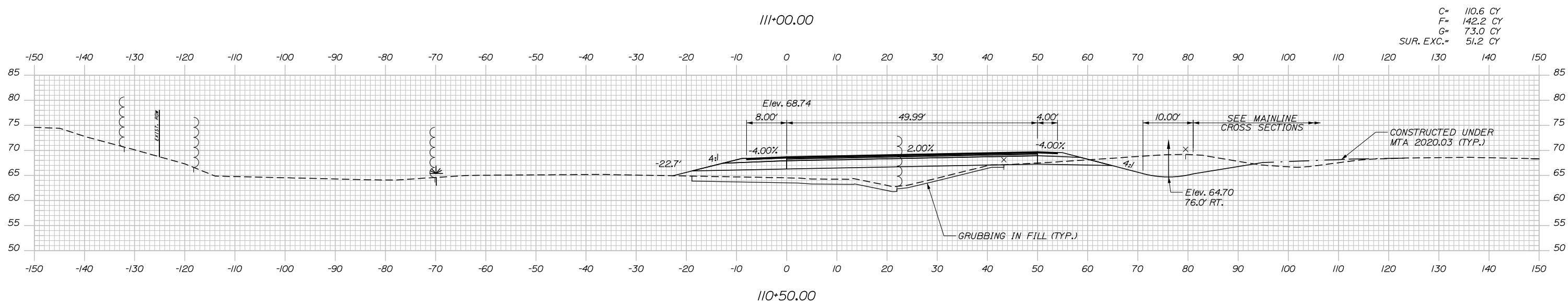
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP A
 STA. 109+50 TO STA. 110+00**

SHEET NUMBER: XS-57
 CONTRACT: 2021.07
 191 OF 431

Date: 1/14/2021



C= 92.0 CY
 F= 29.4 CY
 G= 24.9 CY
 SUR. EXC.= 167.2 CY



C= 110.6 CY
 F= 142.2 CY
 G= 73.0 CY
 SUR. EXC.= 51.2 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

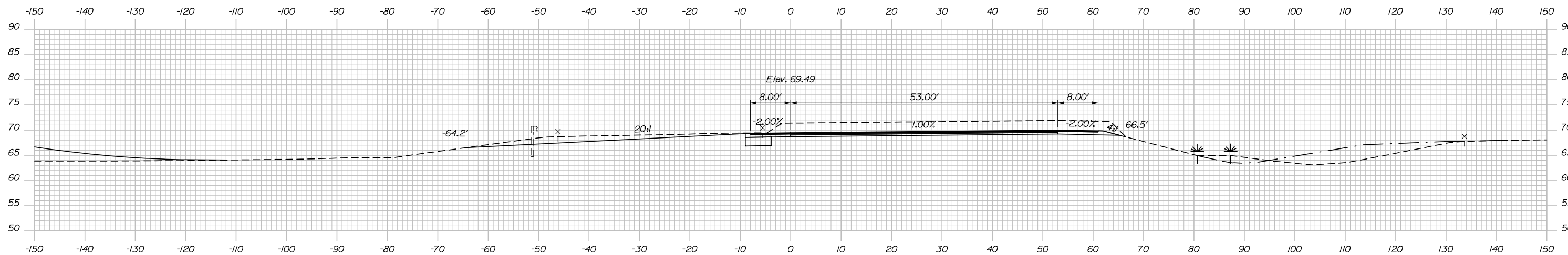
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP A
 STA. 110+50 TO STA. 111+00

SHEET NUMBER: XS-58
 CONTRACT: 2021.07
 192 OF 431

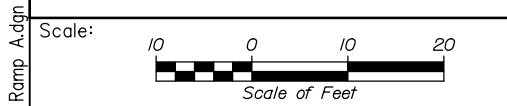
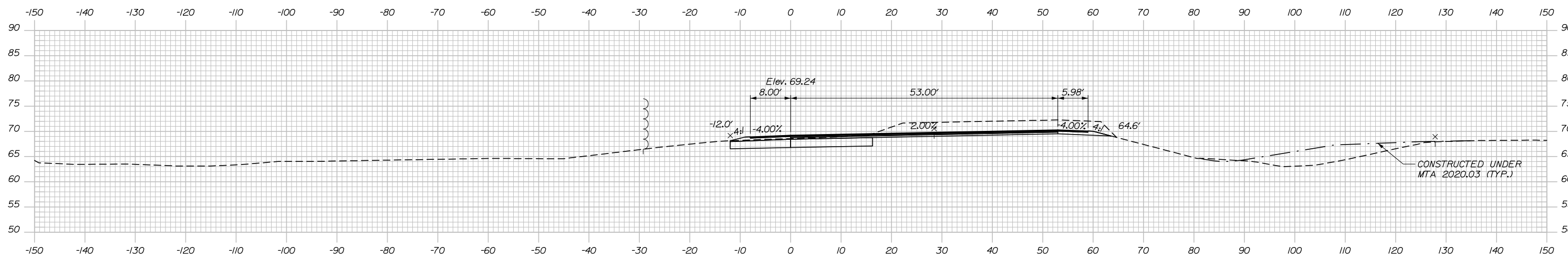
Date: 1/14/2021

STA. 112+32.88 RAMP A @ =
 STA. 3+01.20 ACCESS ROAD @

C= 49.1 CY
 F= 33.3 CY
 SUR. EXC.= 355.4 CY



C= 92.6 CY
 F= 33.3 CY
 SUR. EXC.= 288.5 CY



Designed by:



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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP A
 STA. 111+50 TO STA. 112+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	CDH 09\20	In Charge of	RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

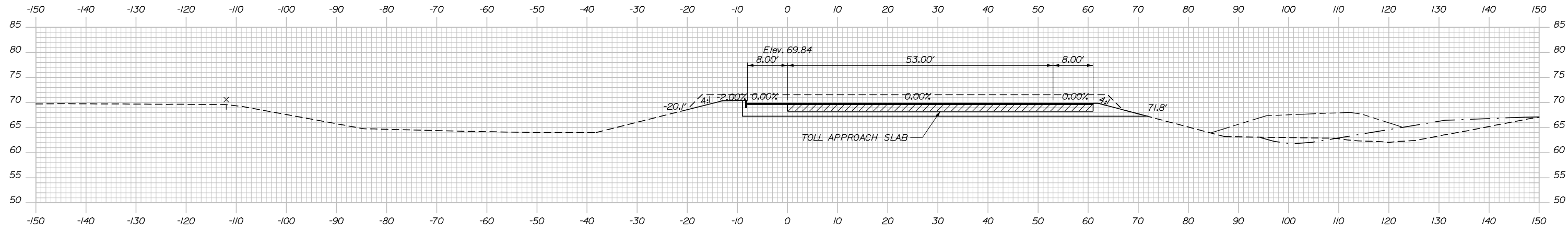
SHEET NUMBER: XS-59

193 OF 431

Filename: Xsect - Ramp A.dgn

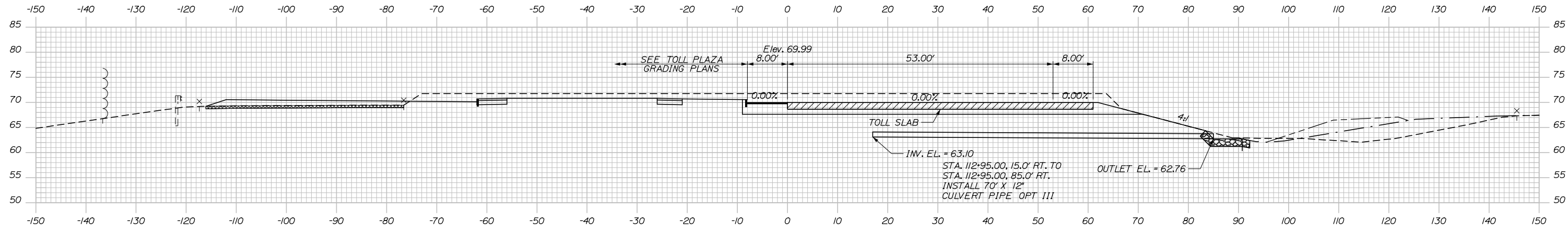
Date: 1/14/2021

C= 298.0 CY
SUR. EXC.= 299.8 CY



113+50.00

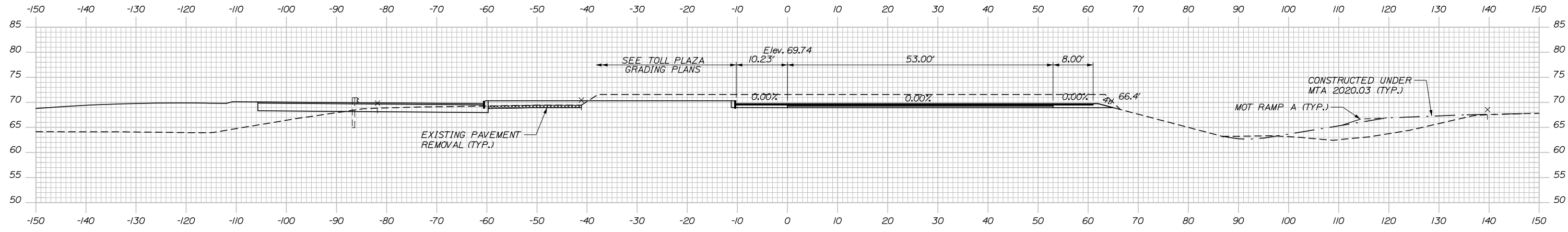
C= 172.1 CY
SUR. EXC.= 122.1 CY



113+00.00

SEE STRUCTURAL PLANS FOR TOLL SLAB DETAILS

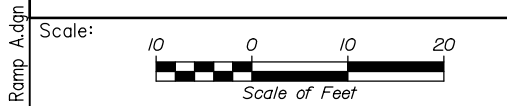
C= 37.4 CY
SUR. EXC.= 132.8 CY



112+50.00

CONSTRUCTED UNDER
MTA 2020.03 (TYP.)

MOT RAMP A (TYP.)



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

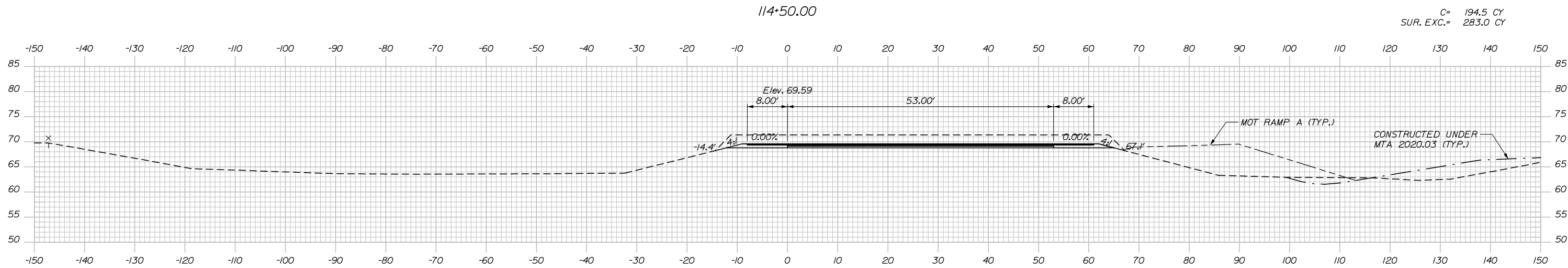
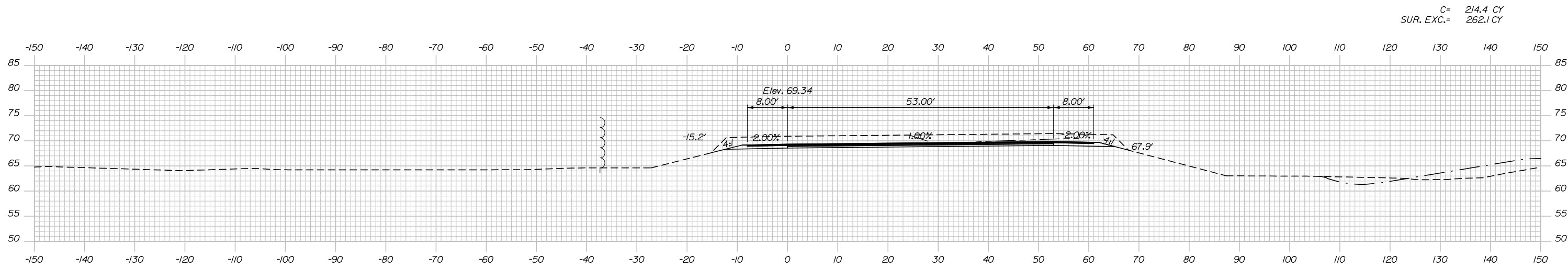
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP A
STA. 112+50 TO STA. 113+50**

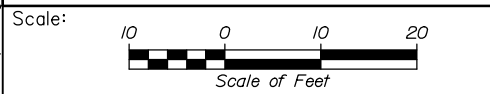
SHEET NUMBER: XS-60
194 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Filename: Xsect - Ramp A.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

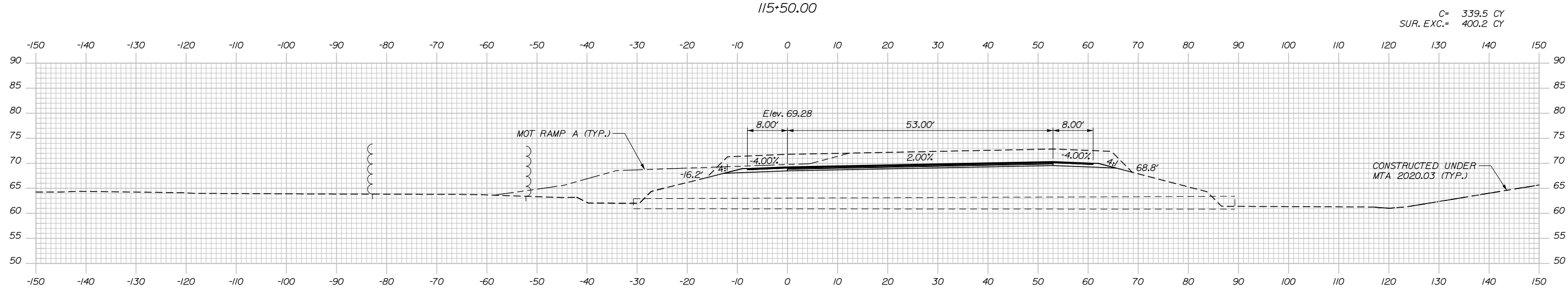
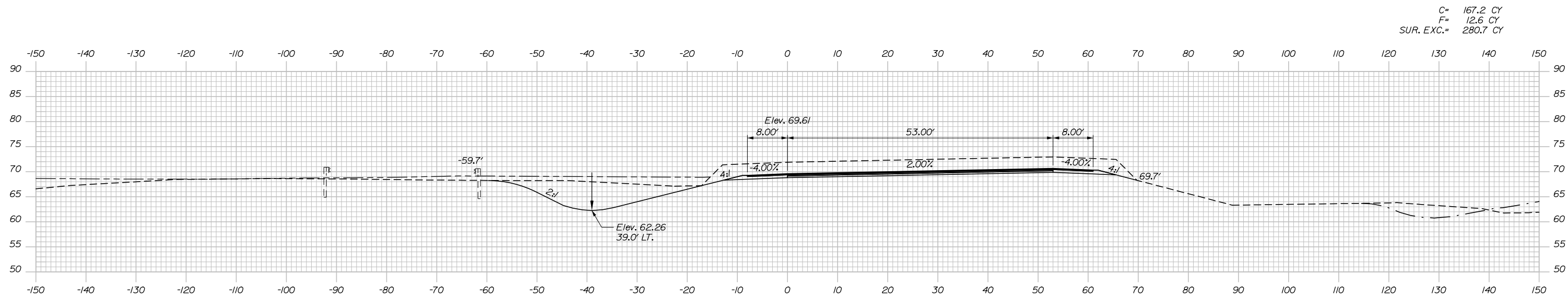
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP A
 STA. 114+00 TO STA. 114+50

SHEET NUMBER: XS-61
 195 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

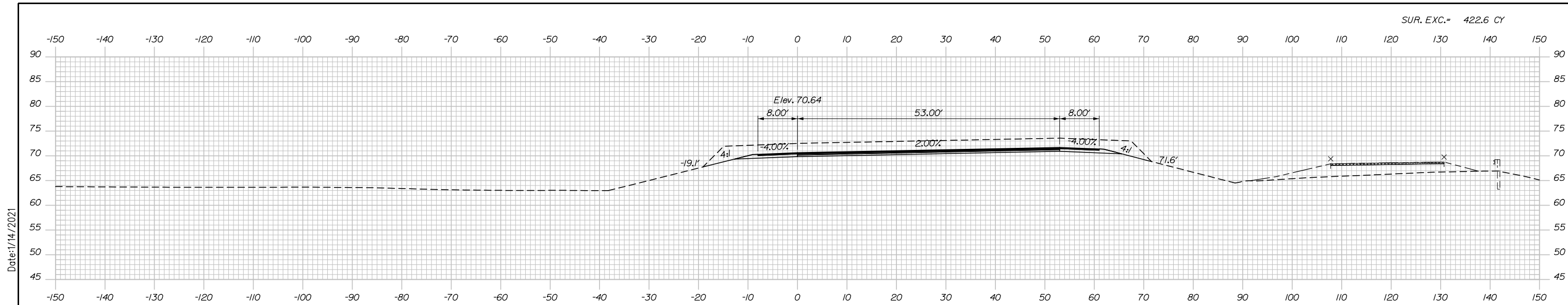
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP A
 STA. 115+00 TO STA. 115+50

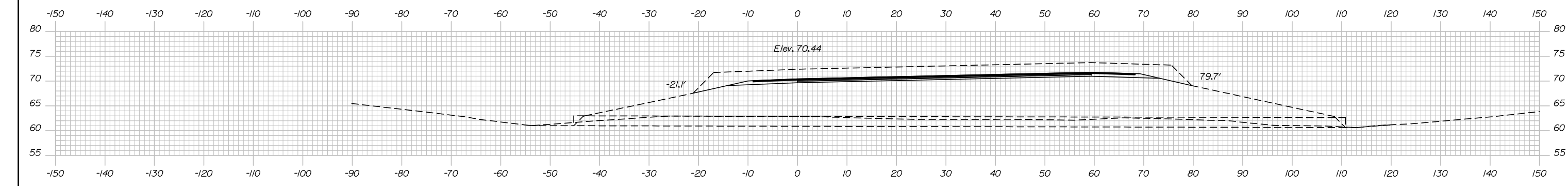
SHEET NUMBER: XS-62
 196 OF 431

CONTRACT: 2021.07

SUR. EXC.= 422.6 CY

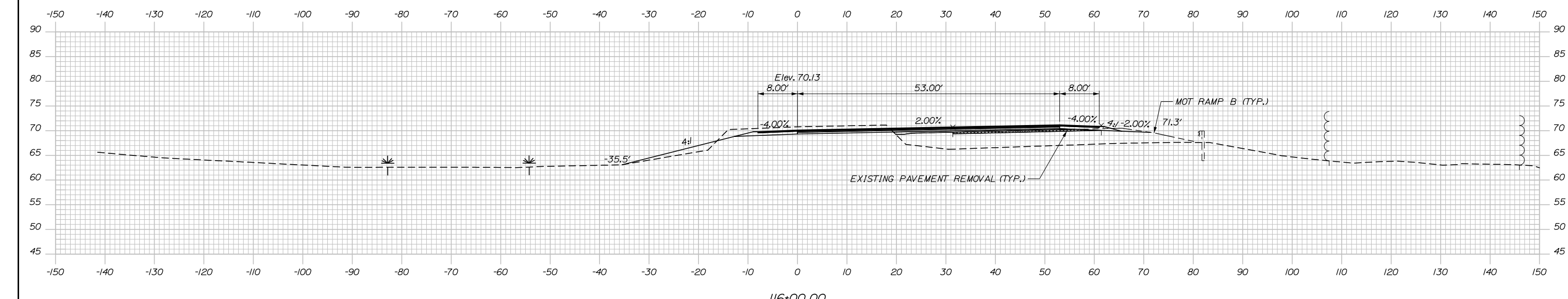


116+50.00



116+30.85 (SKEWED)

C= 4.2 CY
F= 12.6 CY
SUR. EXC.= 262.4 CY



116+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

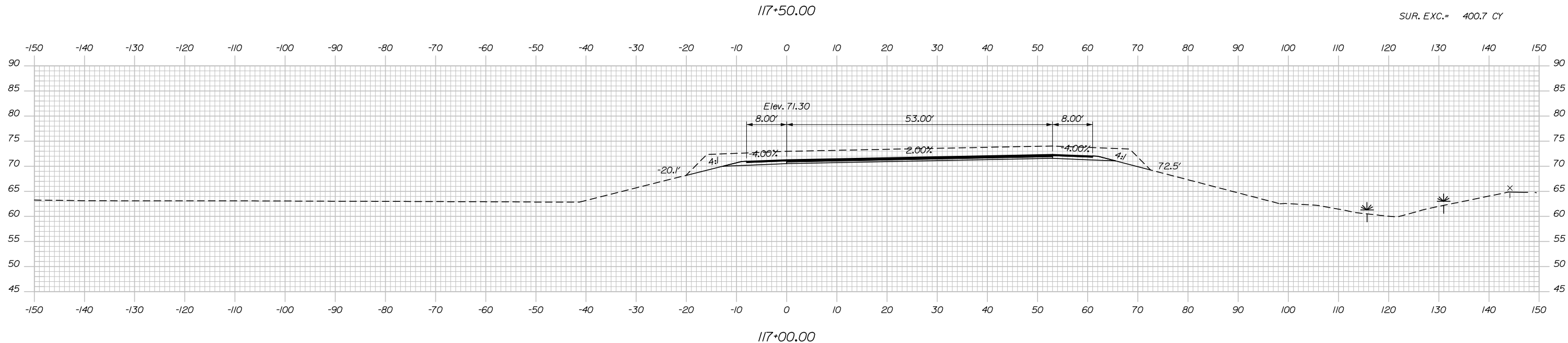
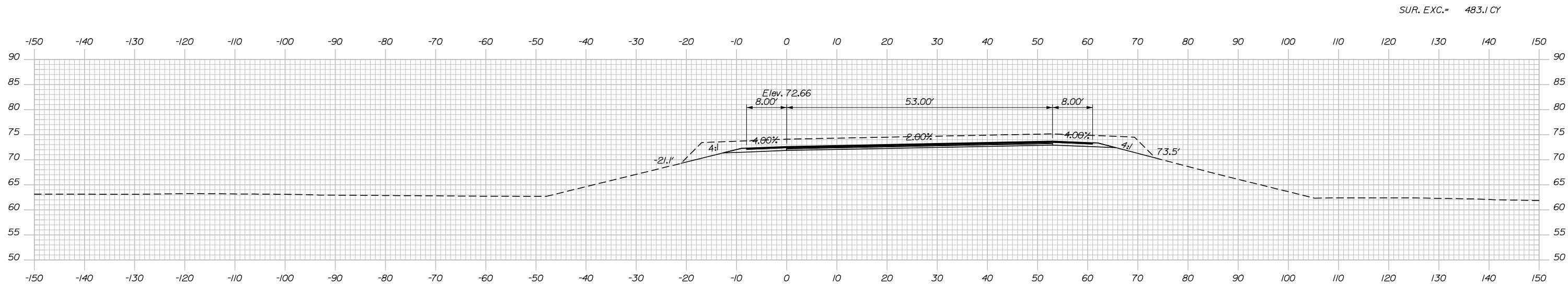
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP A
STA. 116+00 TO STA. 116+50

SHEET NUMBER: XS-63
CONTRACT: 2021.07
197 OF 431

Filename: Xsect - Ramp A.dgn

Date: 1/14/2021

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

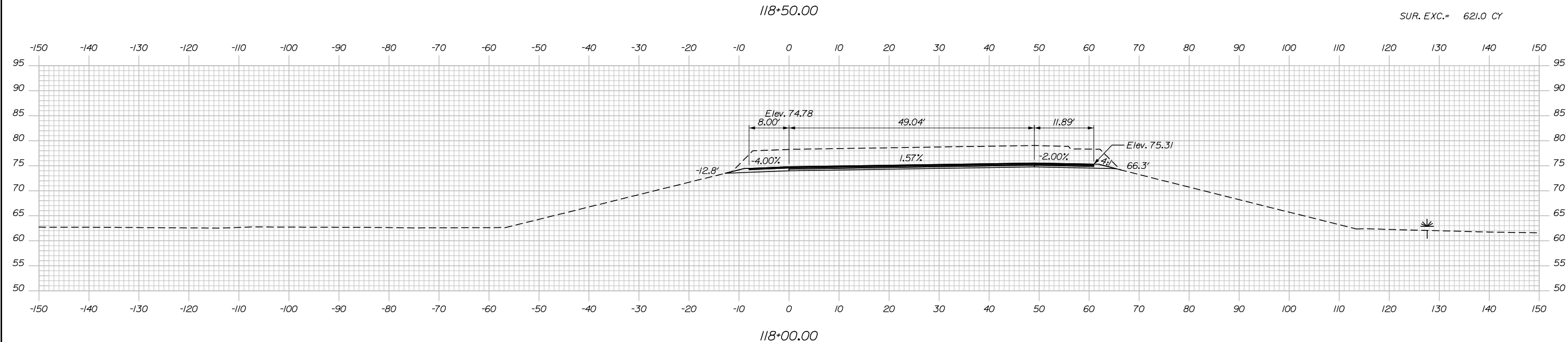
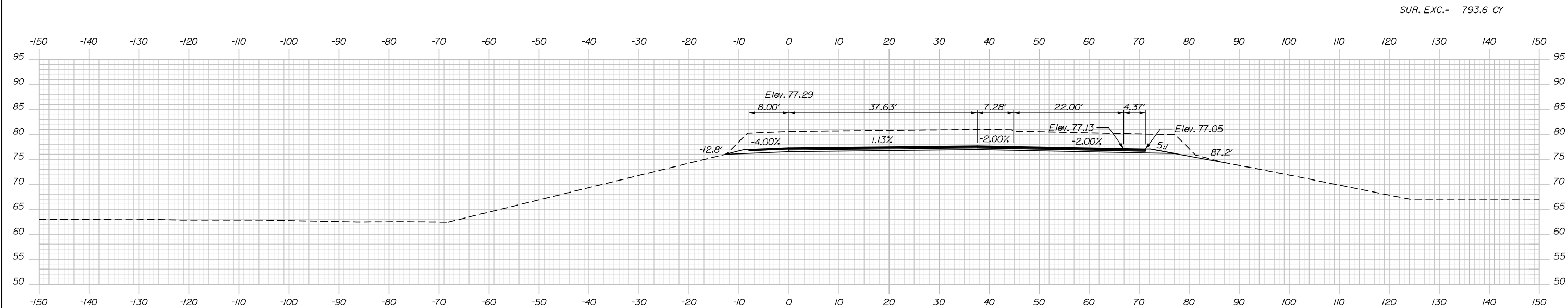
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP A
 STA. 117+00 TO STA. 117+50

SHEET NUMBER: XS-64
 198 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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THE GOLD STAR MEMORIAL HIGHWAY

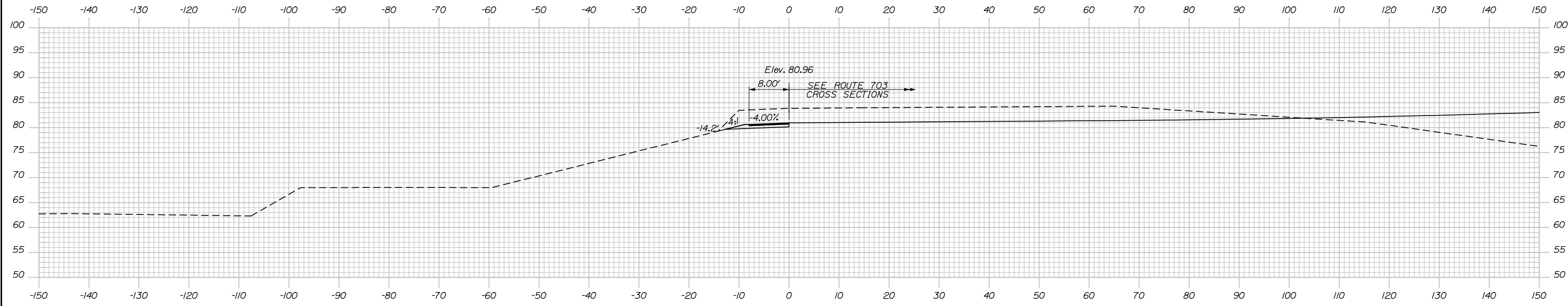
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP A
STA. 118+00 TO STA. 118+50

SHEET NUMBER: XS-65
 199 OF 431

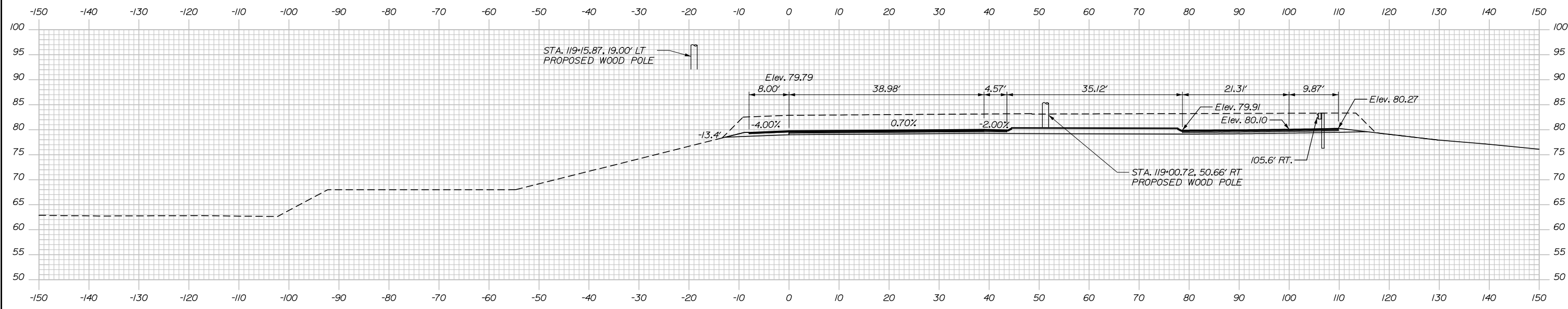
CONTRACT: 2021.07

Date: 1/14/2021

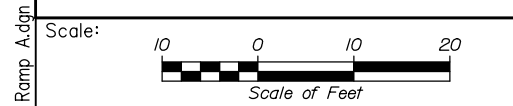


119+46.64
 STA. 119+46.64 RAMP A =
 STA. 200+00.00 RAMP B =
 STA. 1046+35.31 ROUTE 703 =

F= 1.3 CY
 SUR. EXC.= 204.4 CY



119+00.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

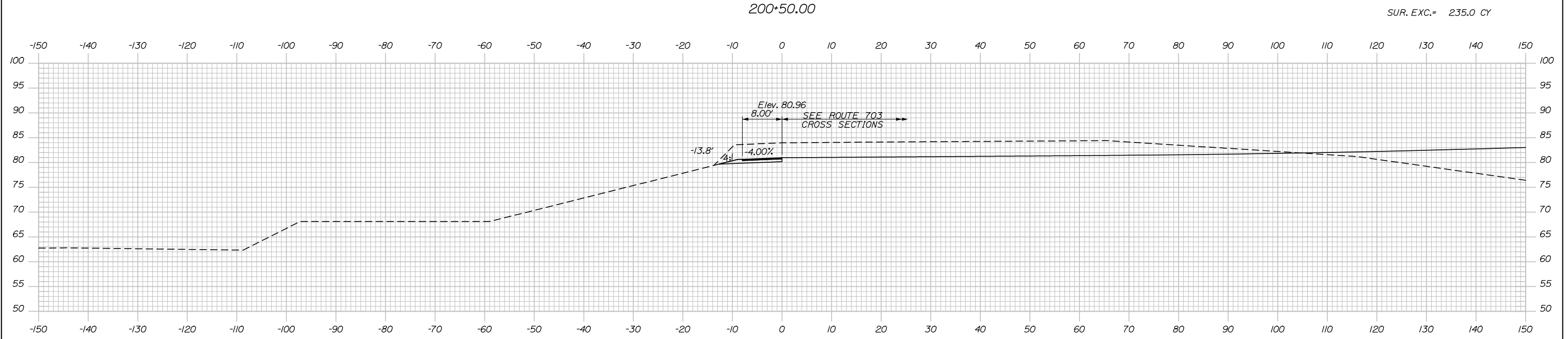
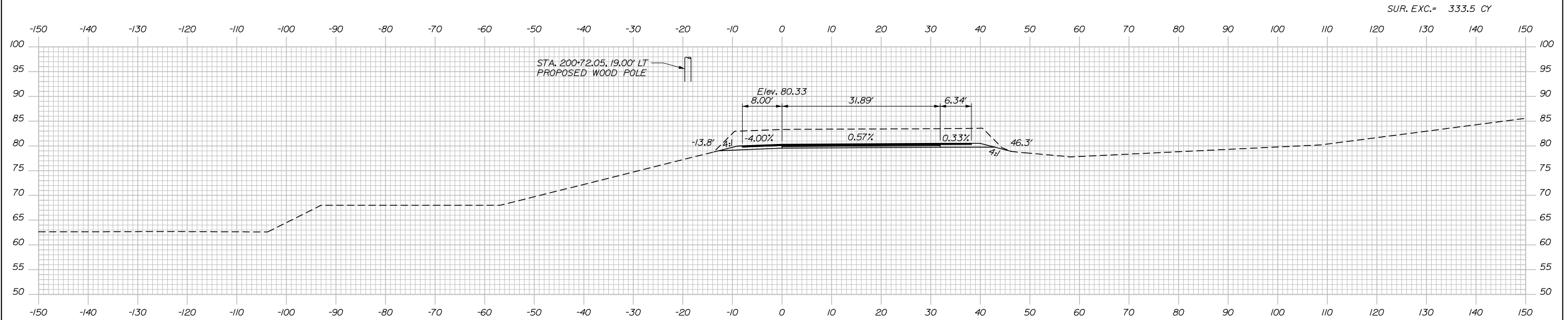
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP A
 STA. 119+00 TO STA. 119+47**

SHEET NUMBER: XS-66
 200 OF 431

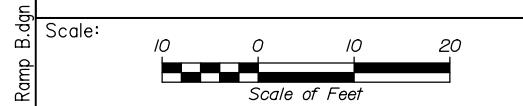
CONTRACT: 2021.07

Filename: Xsect - Ramp A.dgn

Date: 1/14/2021



200+00.00
 STA. 200+00.00 RAMP B @ =
 STA. 119+46.64 RAMP A @ =
 STA. 1046+35.31 ROUTE 703 @



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

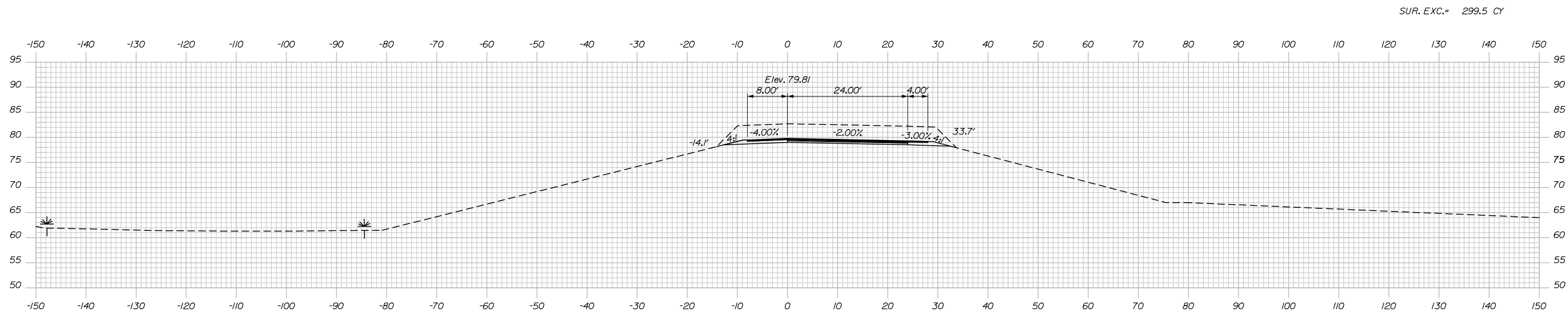
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP B
 STA. 200+00 TO STA. 200+50**

CONTRACT: 2021.07

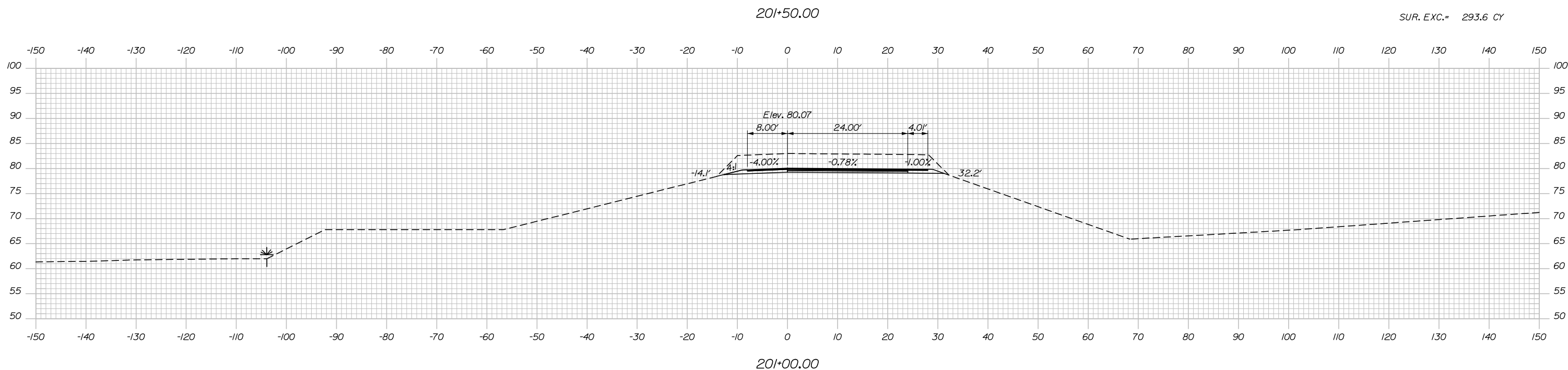
SHEET NUMBER: XS-67

201 OF 431

Date: 1/14/2021



SUR. EXC.= 299.5 CY



SUR. EXC.= 293.6 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	Checked	Date
EDD	09\20	JRH	09\20
Drawn	Date	In Charge of	Date
CDH	09\20	RAL	09\20

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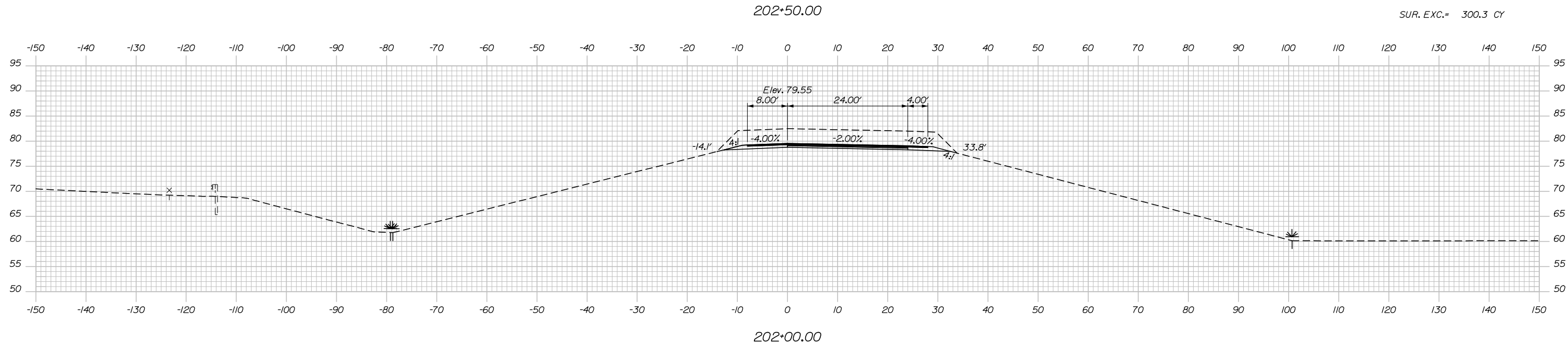
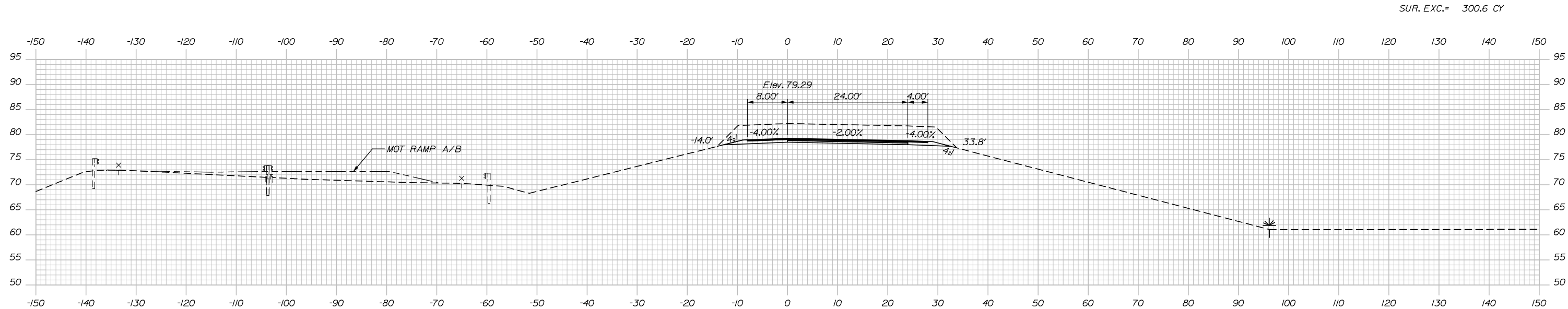
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP B
 STA. 201+00 TO STA. 201+50

SHEET NUMBER: XS-68
 CONTRACT: 2021.07
 202 OF 431

Date: 1/14/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

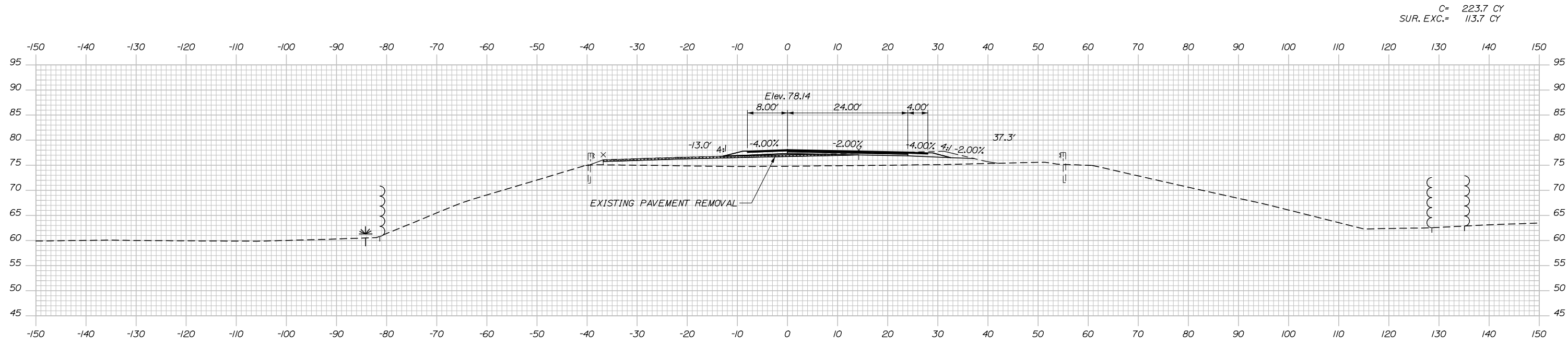
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP B
 STA. 202+00 TO STA. 202+50

SHEET NUMBER: XS-69

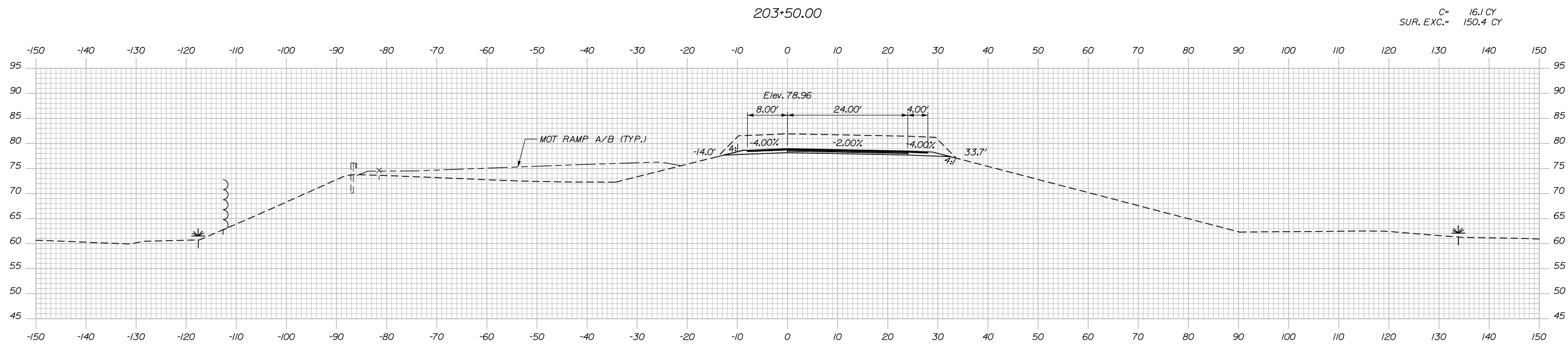
CONTRACT: 2021.07

203 OF 431

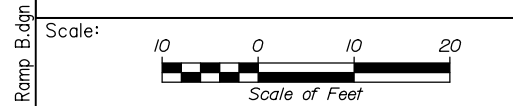
Date: 1/14/2021



C= 223.7 CY
SUR. EXC.= 113.7 CY



C= 16.1 CY
SUR. EXC.= 150.4 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

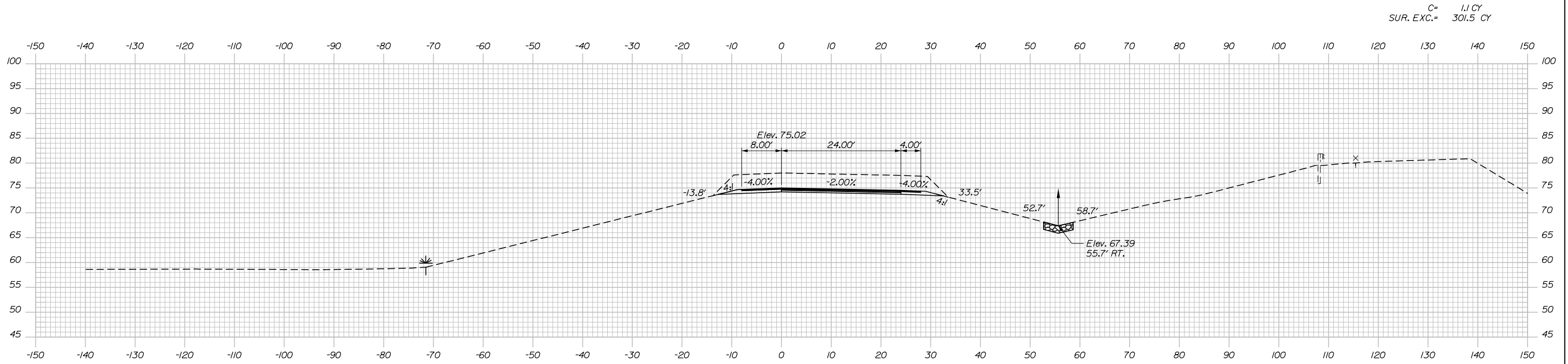
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP B
STA. 203+00 TO STA. 203+50

SHEET NUMBER: XS-70

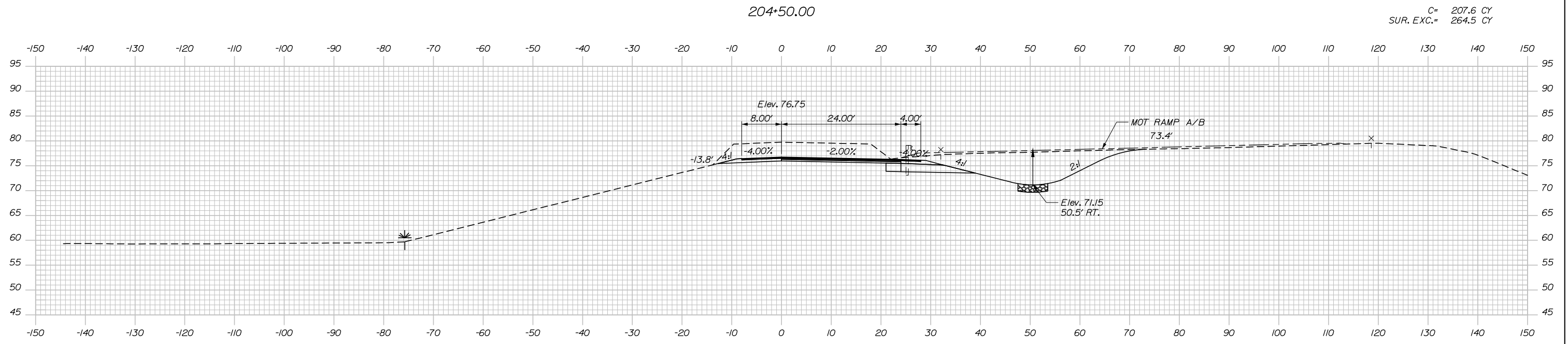
CONTRACT: 2021.07

204 OF 431

Date: 1/14/2021

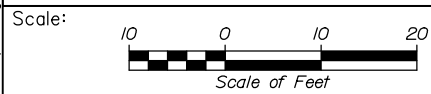


204+50.00



204+00.00

Filename: Xsect - Ramp B.dgn



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP B
STA. 204+00 TO STA. 204+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	09\20	Checked
			JRH
			09\20
Drawn	CDH	09\20	In Charge of
			RAL
			09\20

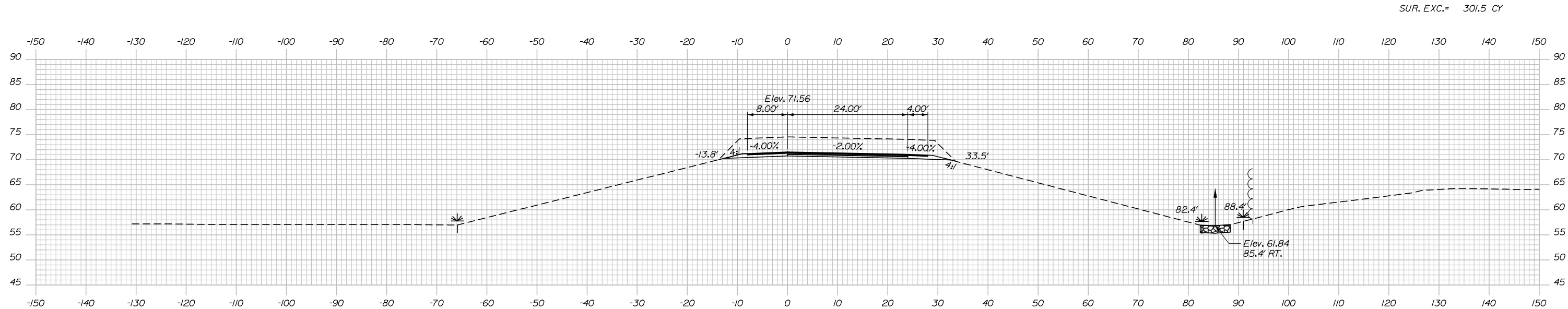
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: XS-71

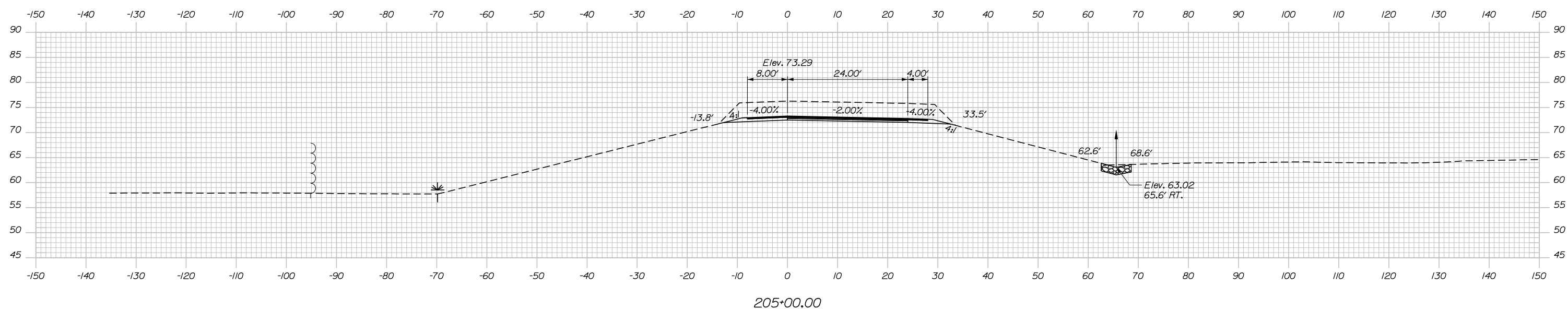
205 OF 431

Date: 1/14/2021

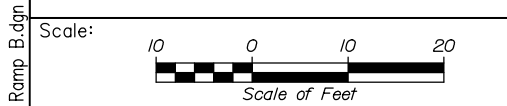


205+50.00

C= 1.1 CY
SUR. EXC.= 301.5 CY



205+00.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

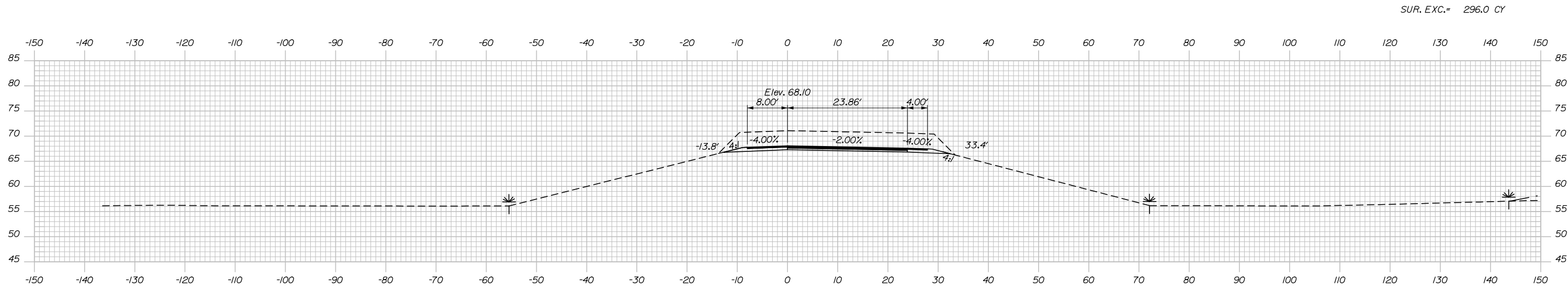
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP B
STA. 205+00 TO STA. 205+50**

SHEET NUMBER: XS-72
CONTRACT: 2021.07
206 OF 431

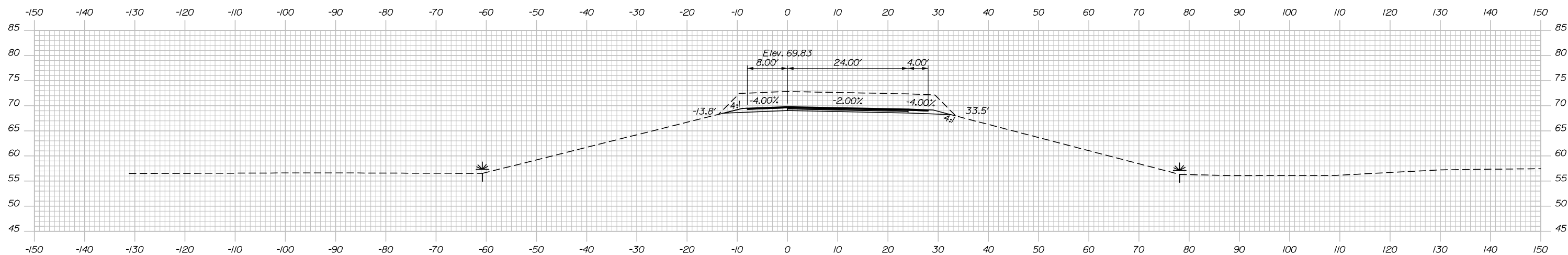
Filename: Xsect - Ramp B.dgn

Date: 1/14/2021

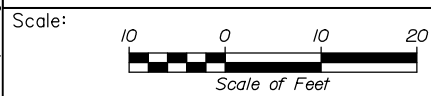


206+50.00

SUR. EXC. = 301.0 CY



206+00.00



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP B
 STA. 206+00 TO STA. 206+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

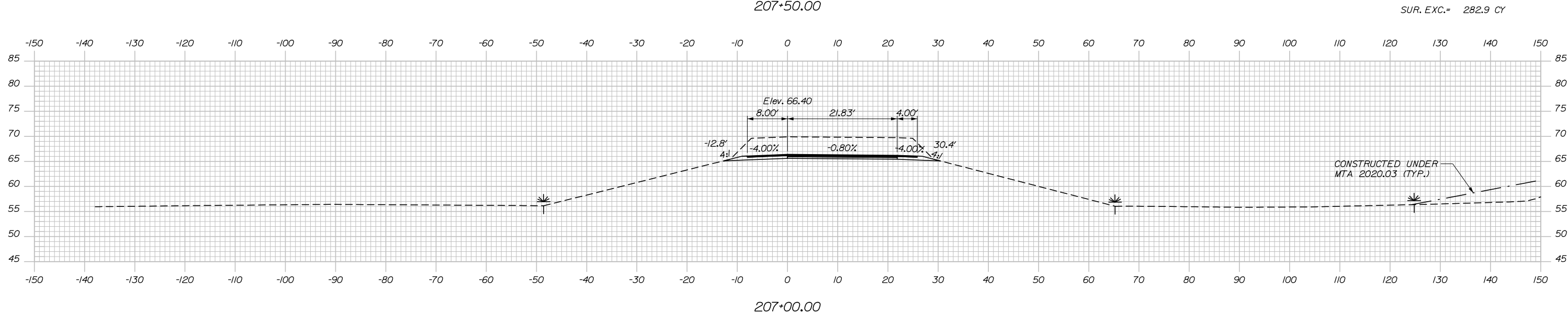
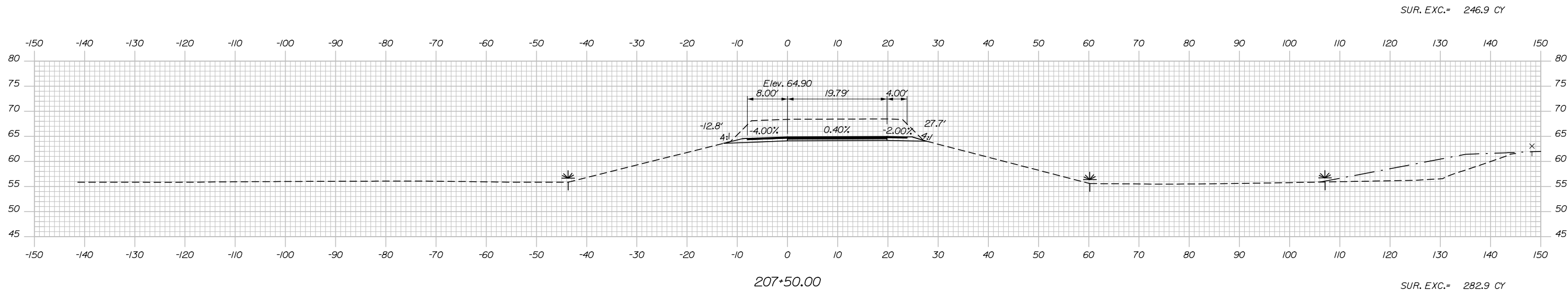
CONTRACT: 2021.07

SHEET NUMBER: XS-73

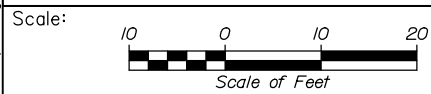
207 OF 431

Filename: Xsect - Ramp B.dgn

Date: 1/14/2021



Filename: Xsect - Ramp B.dgn



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP B
STA. 207+00 TO STA. 207+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	By	Date	
	By	Date	
	By	Date	
	By	Date	

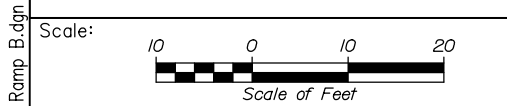
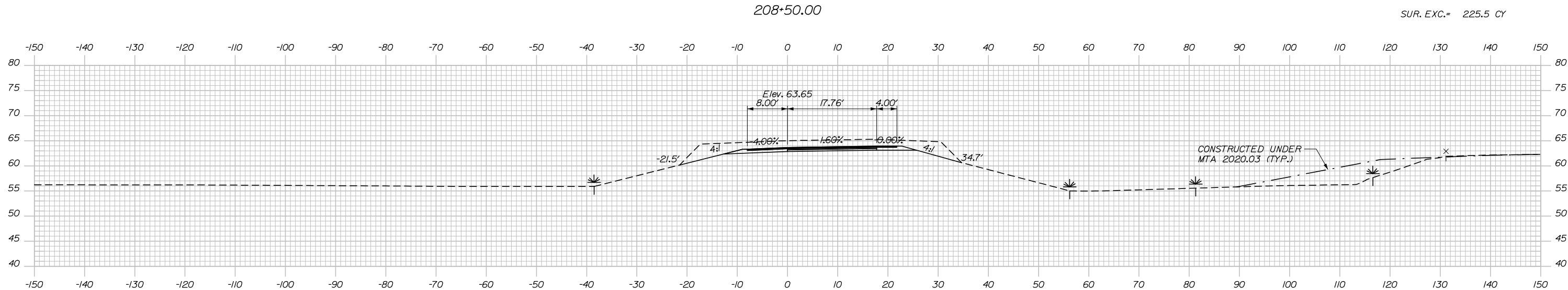
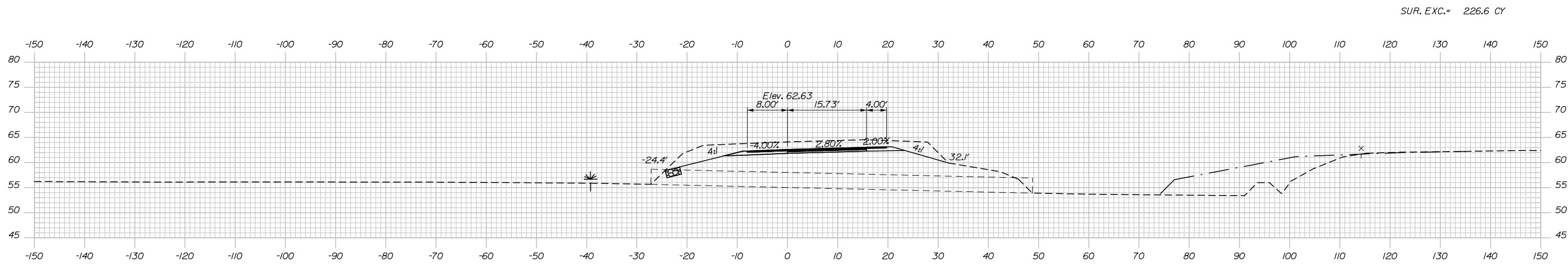
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: XS-74

208 OF 431

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

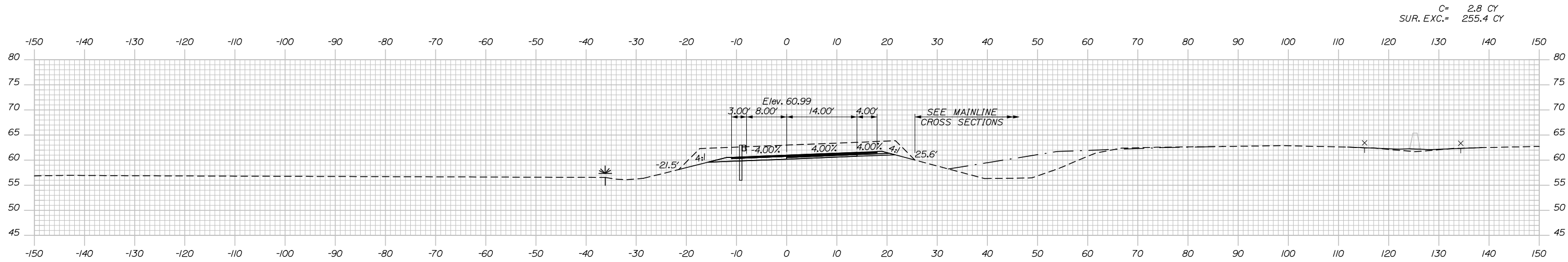
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP B
 STA. 208+00 TO STA. 208+50

SHEET NUMBER: XS-75
 209 OF 431

CONTRACT: 2021.07

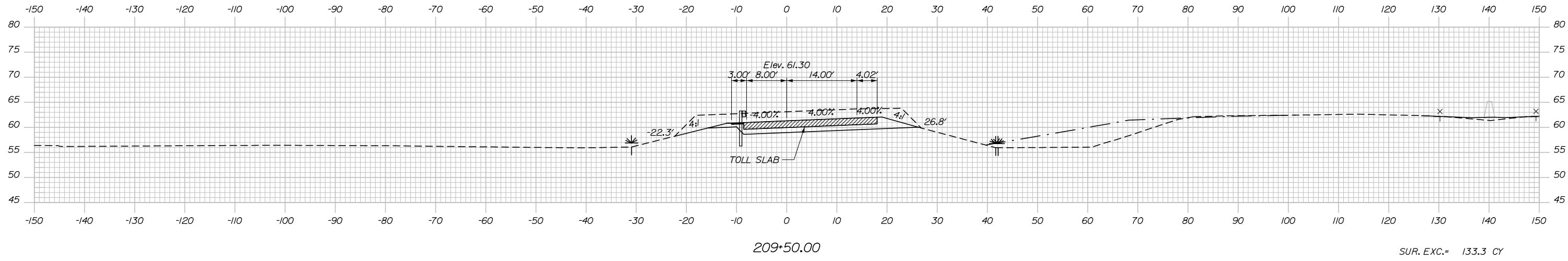
Date: 1/14/2021



C= 2.8 CY
SUR. EXC.= 255.4 CY

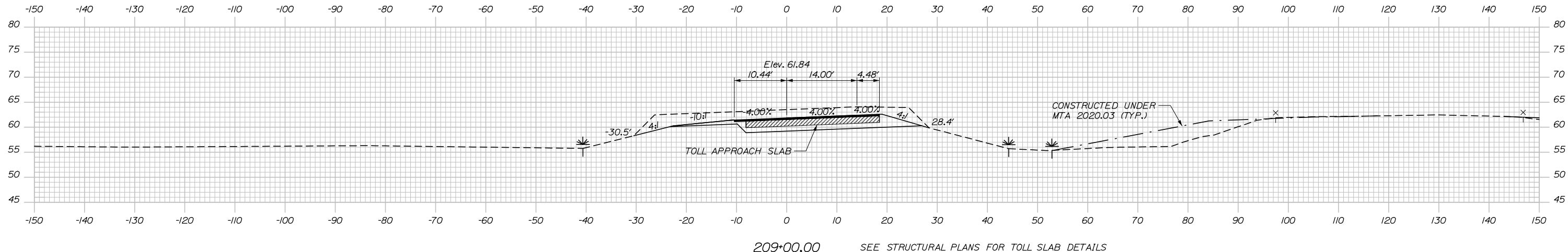
210+00.00

SUR. EXC.= 142.1 CY



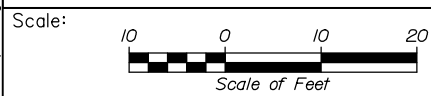
209+50.00

SUR. EXC.= 133.3 CY



209+00.00

SEE STRUCTURAL PLANS FOR TOLL SLAB DETAILS



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP B
STA. 209+00 TO STA. 210+00

SHEET NUMBER: XS-76

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 09\20	Checked	JRH 09\20
Drawn	CDH 09\20	In Charge of	RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

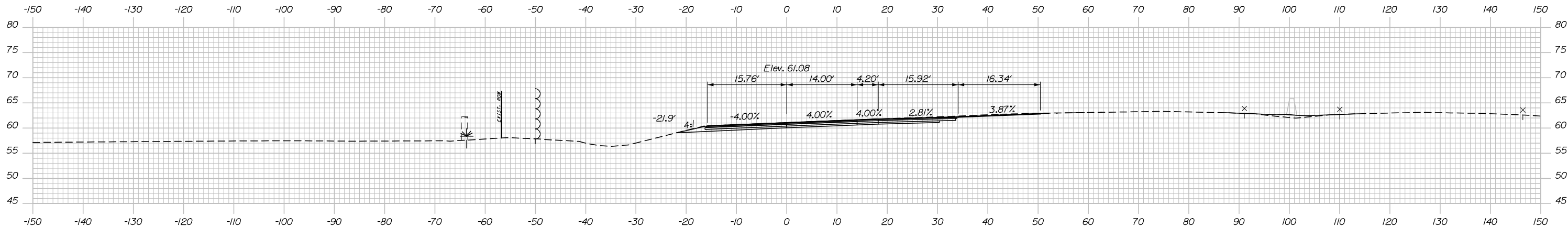
CONTRACT: 2021.07

210 OF 431

Filename: Xsect - Ramp B.dgn

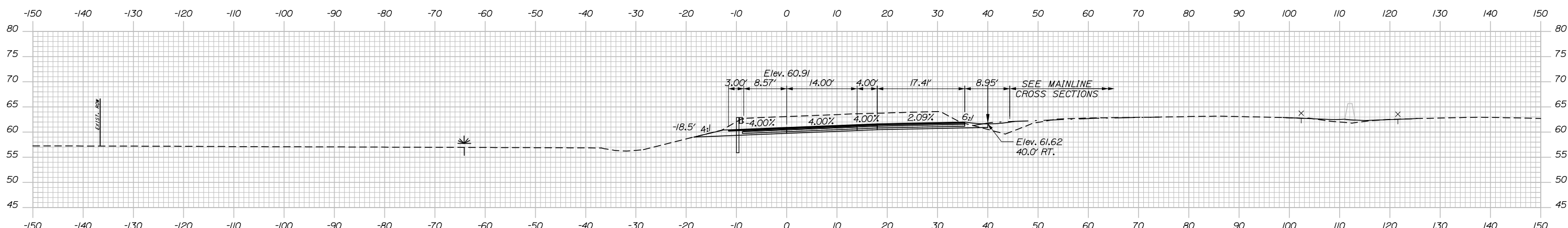
SUR. EXC.= 86.4 CY

Date: 1/14/2021

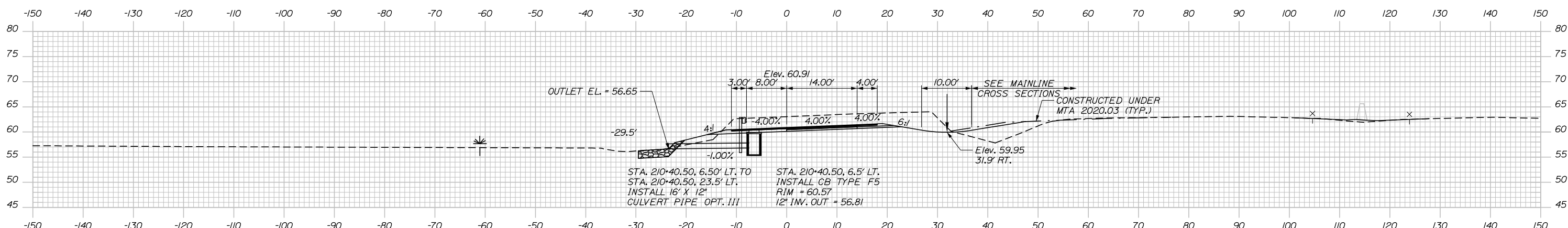


211+00.00

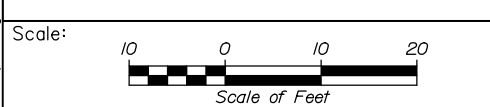
C= 2.8 CY
SUR. EXC.= 194.8 CY



210+50.00



210+40.50



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

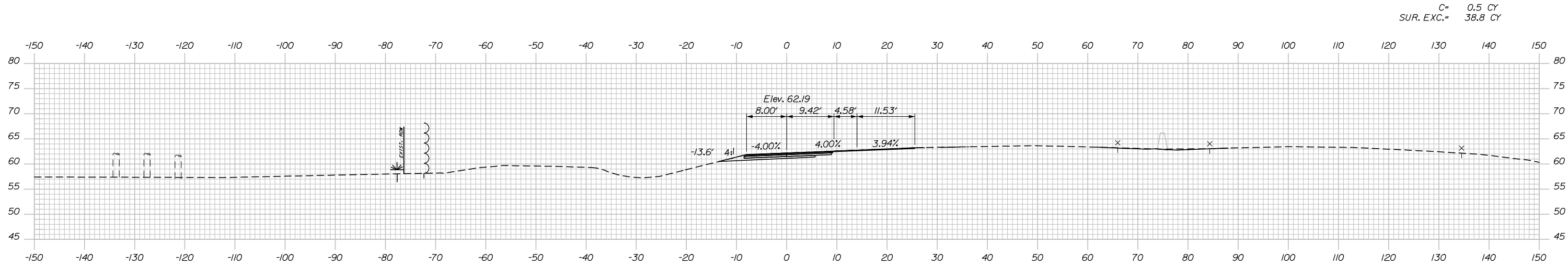
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP B
STA. 210+41 TO STA. 211+00

SHEET NUMBER: XS-77
211 OF 431

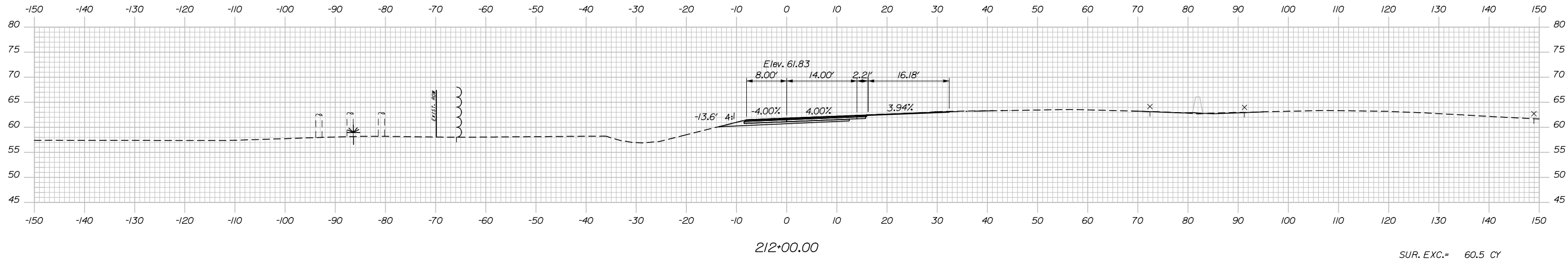
CONTRACT: 2021.07

Date: 1/14/2021



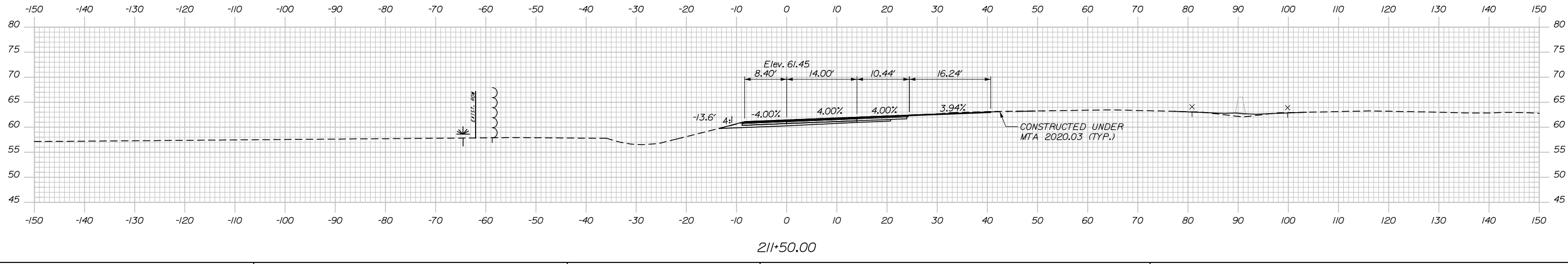
212+50.00

C= 0.5 CY
SUR. EXC.= 38.8 CY



212+00.00

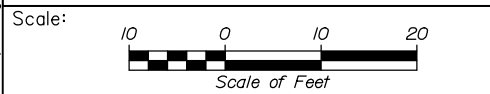
C= 0.5 CY
SUR. EXC.= 44.7 CY



211+50.00

SUR. EXC.= 60.5 CY

Filename: Xsect - Ramp B.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

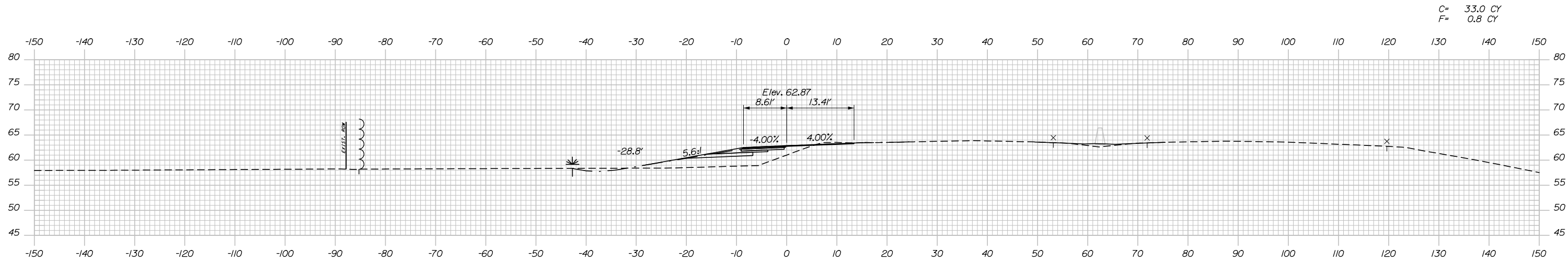
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP B
STA. 211+50 TO STA. 212+50

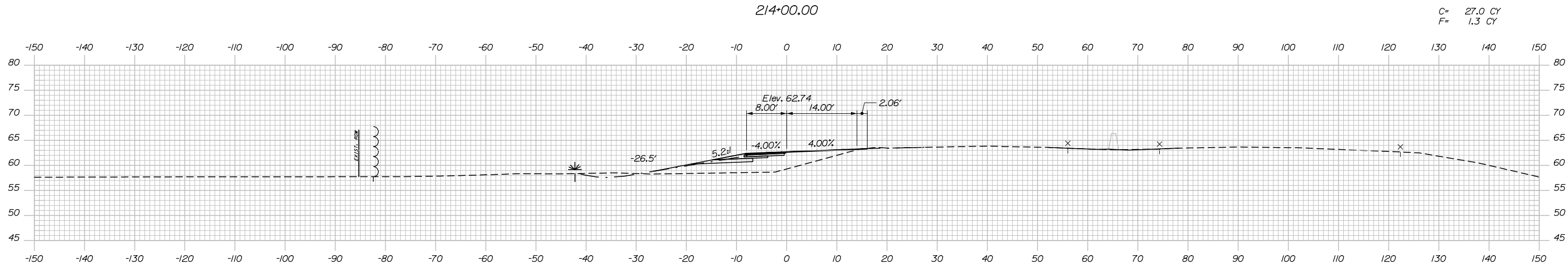
SHEET NUMBER: XS-78
212 OF 431

CONTRACT: 2021.07

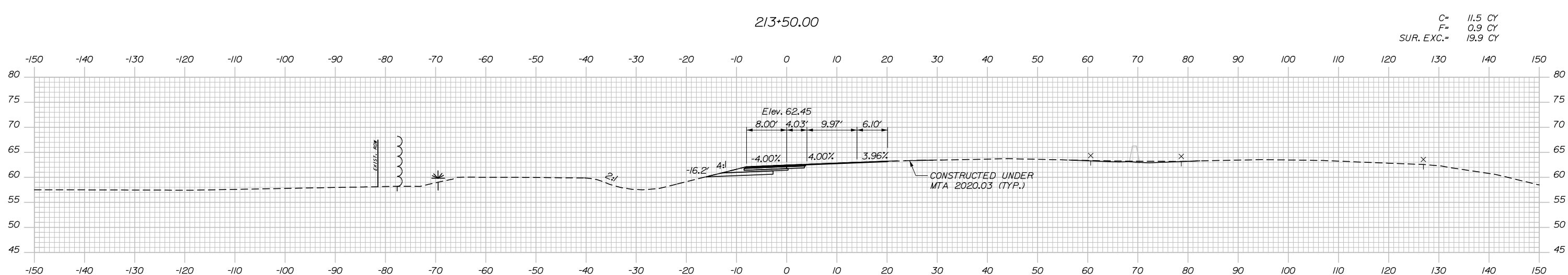
Date: 1/14/2021



214+00.00

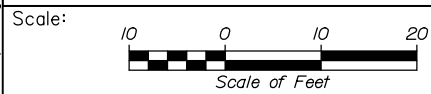


213+50.00



213+00.00

Filename: Xsect - Ramp B.dgn



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP B
STA. 213+00 TO STA. 214+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
Drawn	By	Date	In Charge of
	EDD	09\20	JRH
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: XS-79

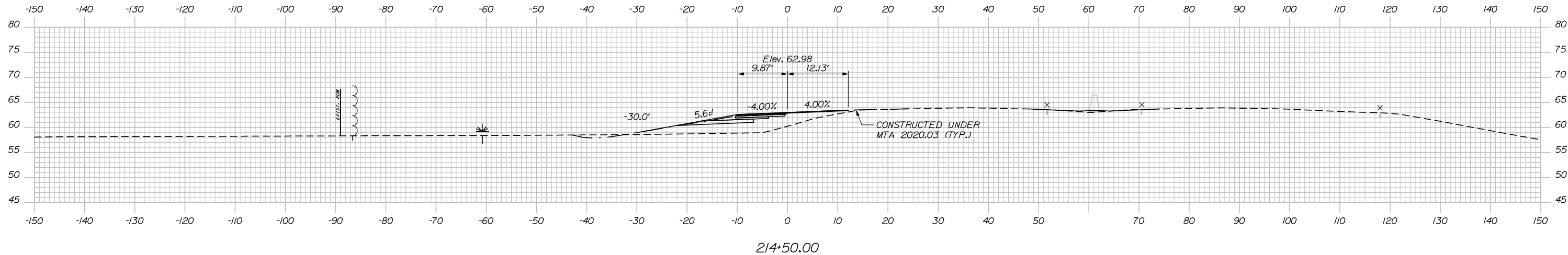
213 OF 431

Date: 1/14/2021

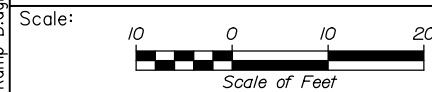
STA. 216+87.56 RAMP B @ =
 STA. 2236+12.18, MAINE TURNPIKE @ 61.00' LT.

STA. 214+71.78
 LIMIT OF WORK

C= 15.3 CY
 F= 0.4 CY



Filename: Xsect - Ramp B.dgn



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP B
 STA. 214+50 TO STA. 214+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

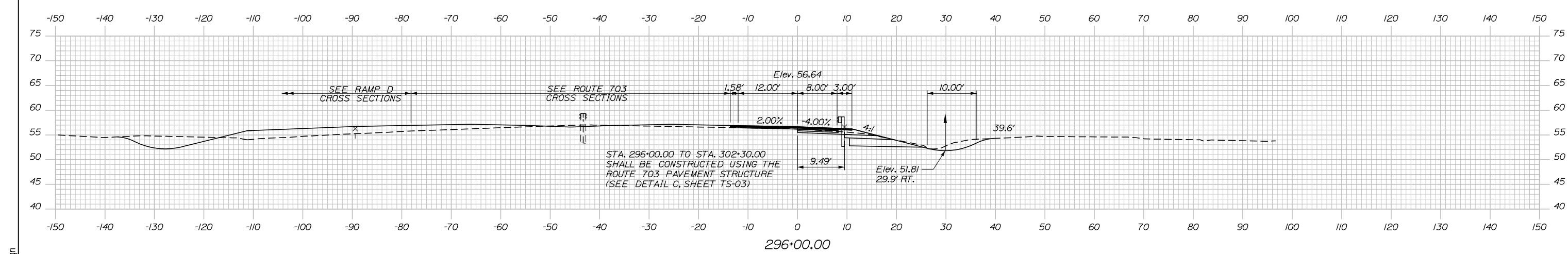
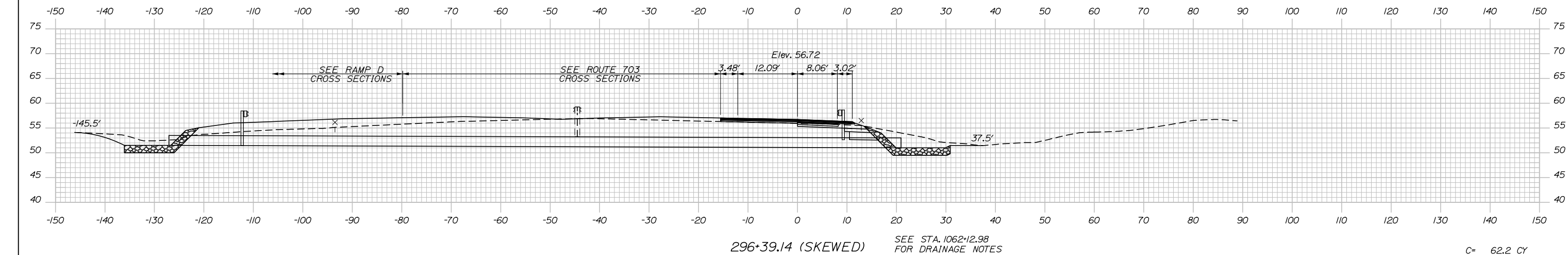
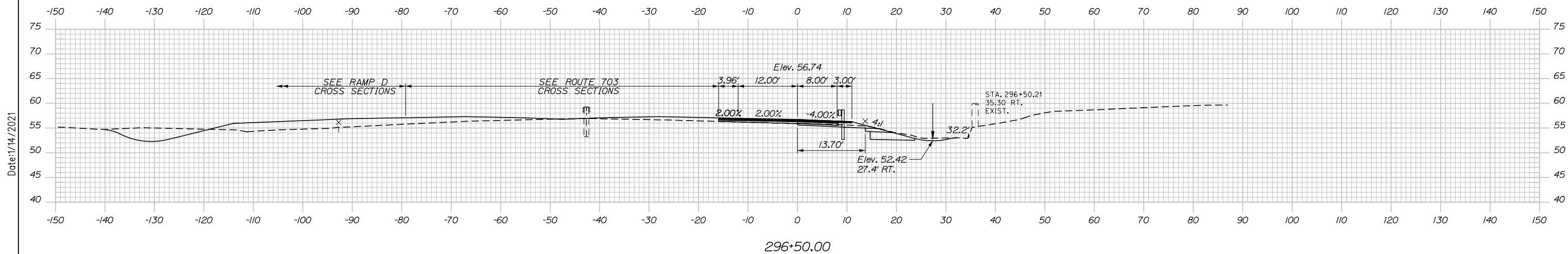
CONTRACT: 2021.07

SHEET NUMBER: XS-80

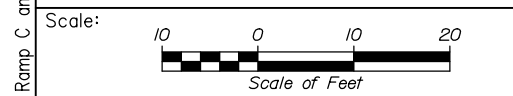
214 OF 431

C= 34.2 CY
F= 0.3 CY

Date: 1/14/2021



STA. 295+91.81 RAMP C RT. =
STA. 9062+66.93 ROUTE 703 WESTBOUND RT. = 25.29' LT. =
STA. 1062+67.07 ROUTE 703 LT. = 45.53' LT.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
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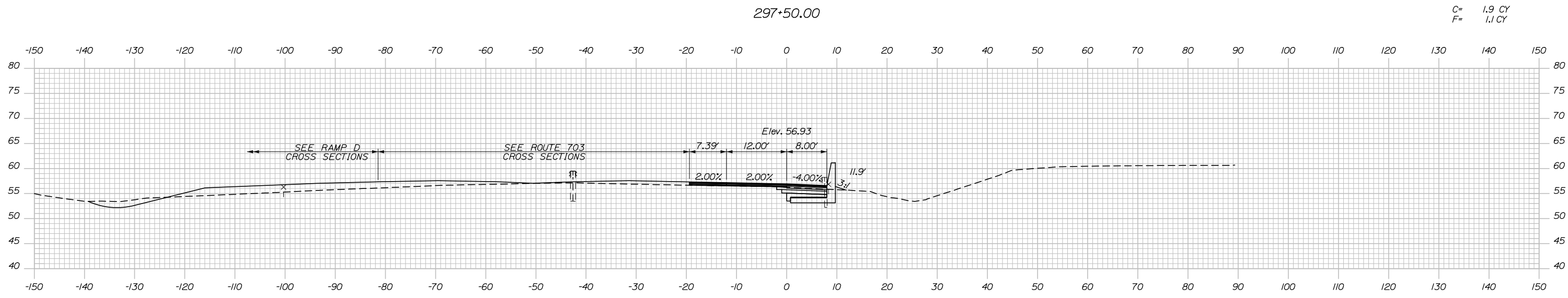
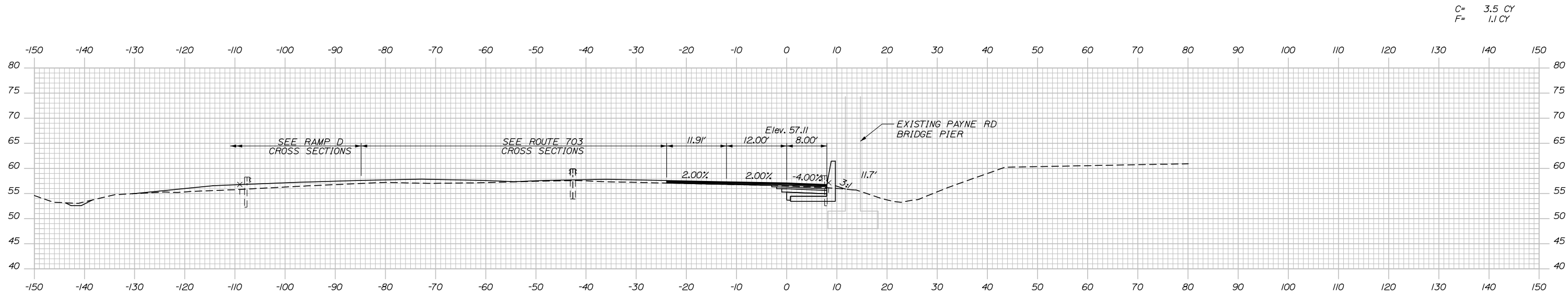
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 296+00 TO STA. 296+60**

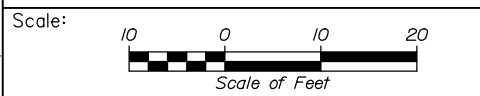
SHEET NUMBER: XS-81
CONTRACT: 2021.07
215 OF 431

Filename: Xsect - Ramp C and C-1.dgn

Date: 1/14/2021



Filename: Xsect - Ramp C and C-1.dgn



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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 MEMORIAL HIGHWAY**

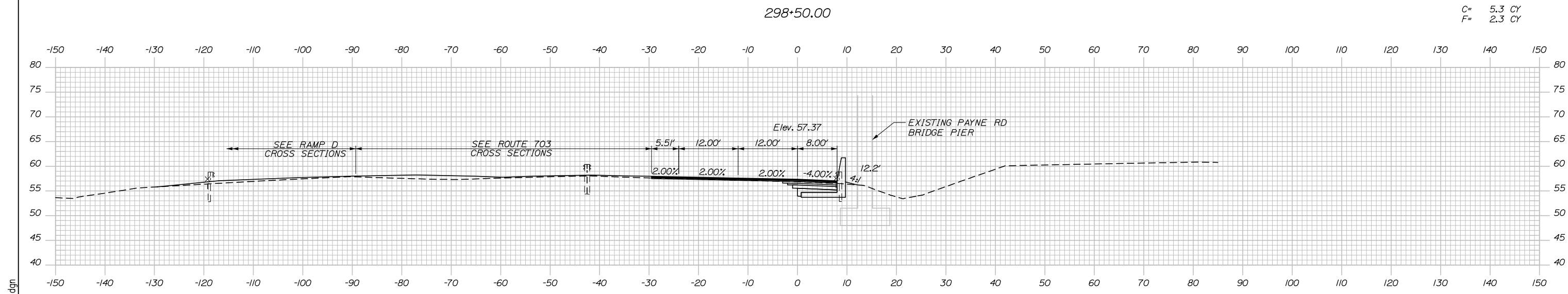
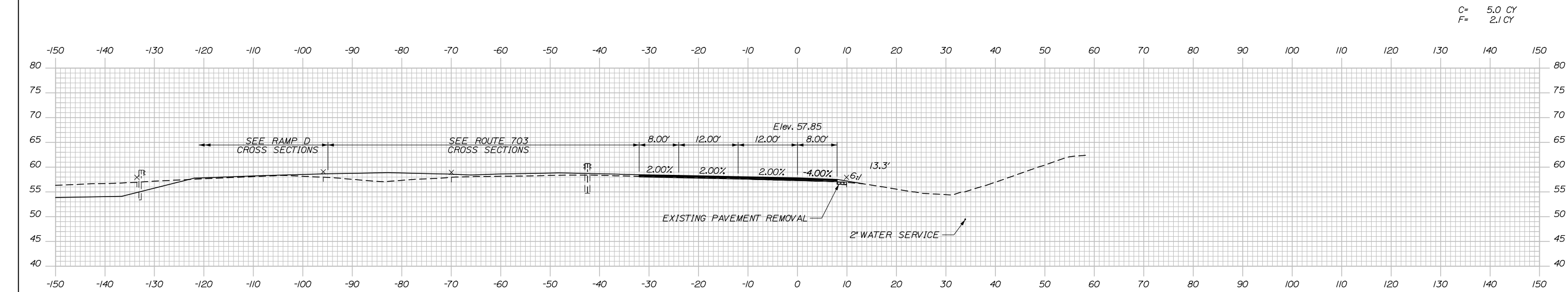
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 297+00 TO STA. 297+50**

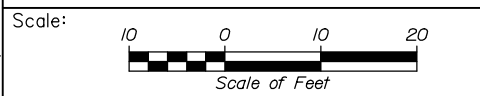
SHEET NUMBER: XS-82
 216 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

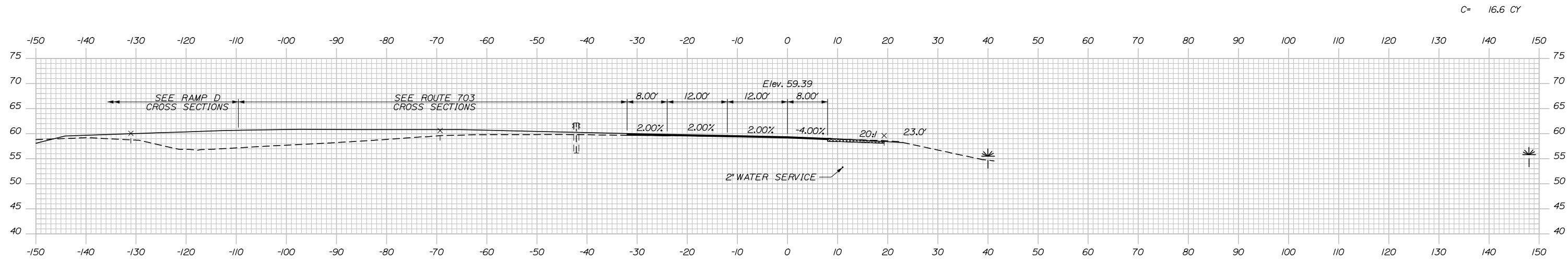
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP C
 STA. 298+00 TO STA. 298+50

SHEET NUMBER: XS-83
 217 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

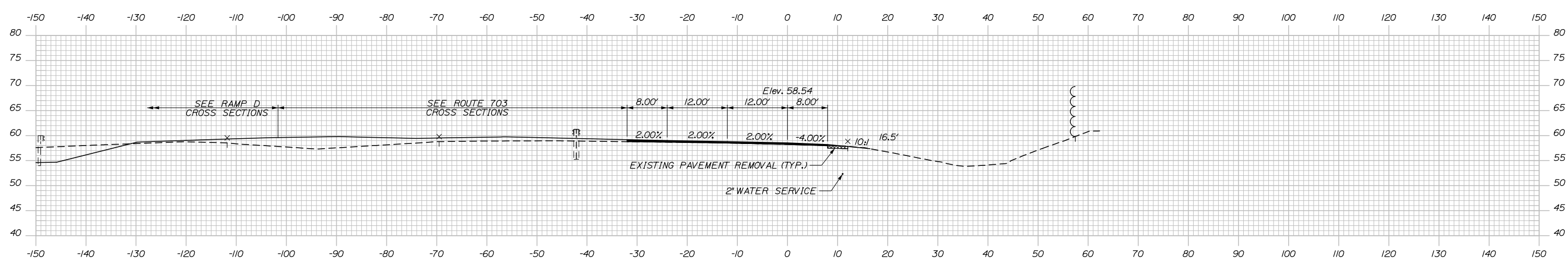
Filename: Xsect - Ramp C and C-1.dgn



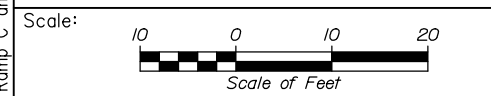
C= 16.6 CY

299+50.00

C= 10.4 CY
F= 0.4 CY



299+00.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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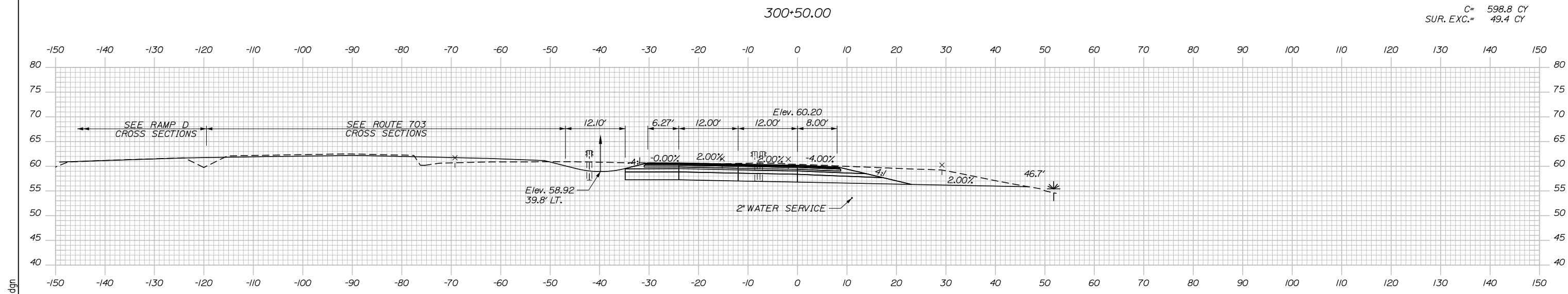
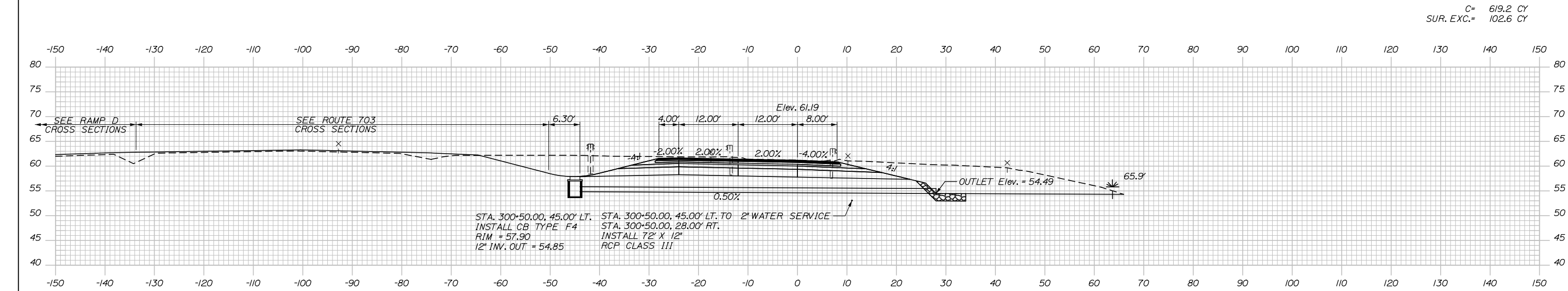
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

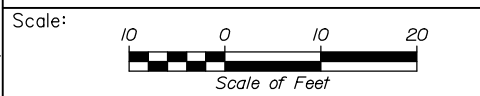
**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 299+00 TO STA. 299+50**

SHEET NUMBER: XS-84
CONTRACT: 2021.07
218 OF 431

Date: 1/14/2021



Filename: Xsect - Ramp C and C-1.dgn



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	CDH	09\20	Checked
Drawn	CDH	09\20	In Charge of
			JRH 09\20
			RAL 09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

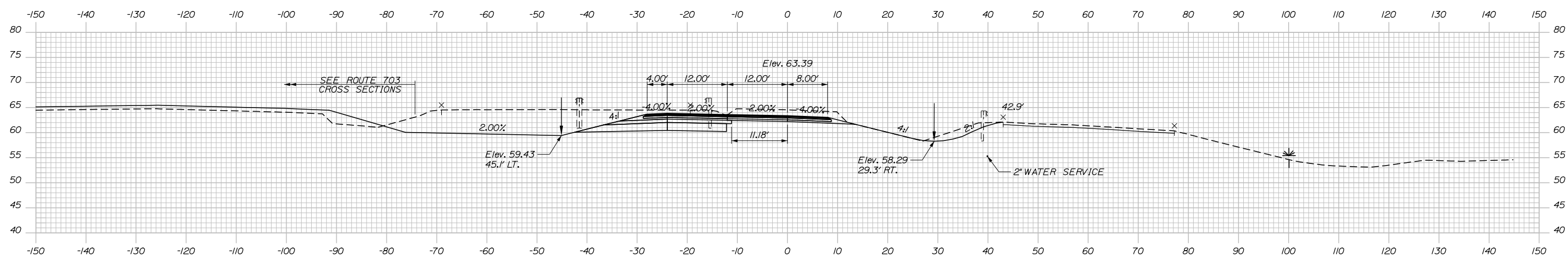
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 300+00 TO STA. 300+50

SHEET NUMBER: XS-85
CONTRACT: 2021.07
219 OF 431

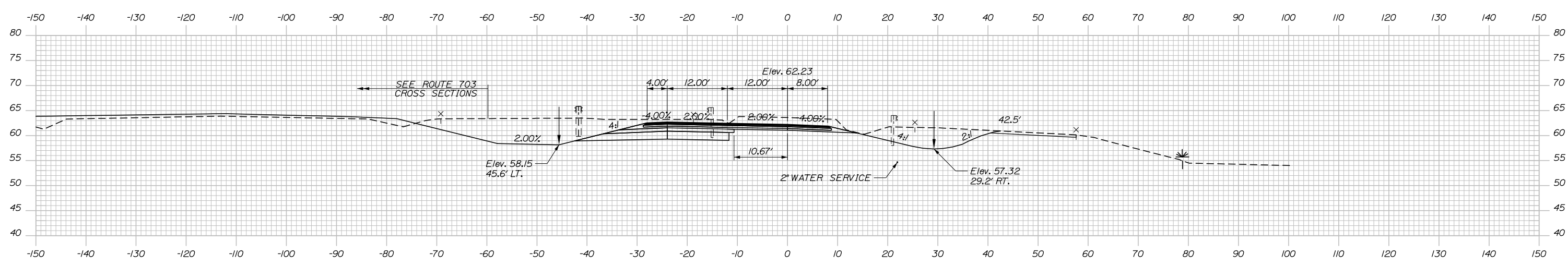
Date: 1/14/2021

C= 549.2 CY
 F= 0.2 CY
 SUR. EXC.= 105.4 CY



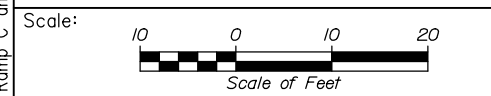
301+50.00

C= 535.9 CY
 F= 0.2 CY
 SUR. EXC.= 103.1 CY



301+00.00

Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

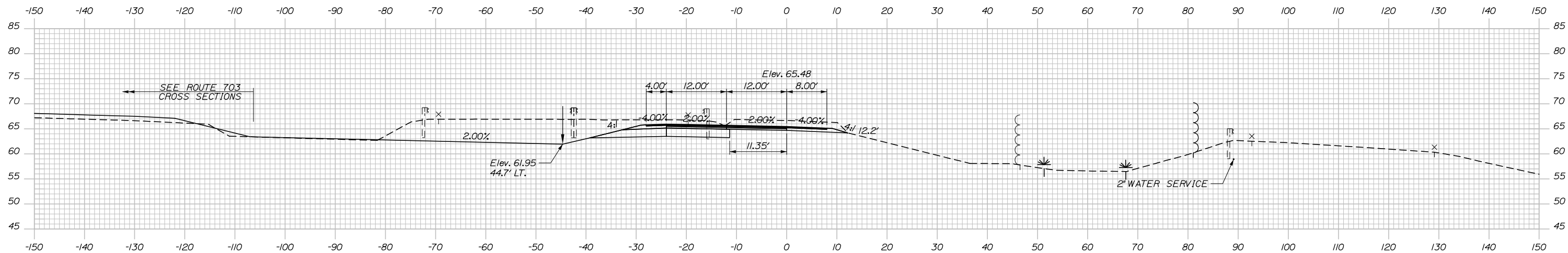
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 301+00 TO STA. 301+50**

SHEET NUMBER: XS-86
 220 OF 431

CONTRACT: 2021.07

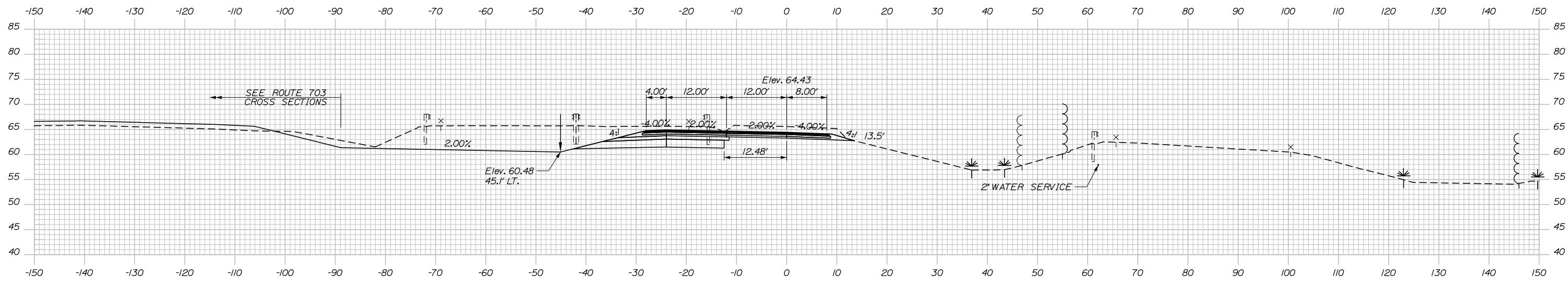
Date: 1/14/2021

C= 343.6 CY
 F= 1.6 CY
 SUR. EXC.= 88.6 CY

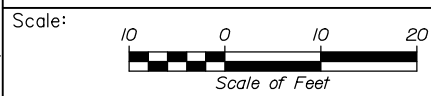


STA. 302+30.00 TO STA. 302+50.00
 TRANSITION FROM ROUTE 703
 PAVEMENT STRUCTURE TO RAMP
 PAVEMENT STRUCTURE

C= 522.6 CY
 F= 1.6 CY
 SUR. EXC.= 99.1 CY



302+00.00



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THE GOLD STAR
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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 302+00 TO STA. 302+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

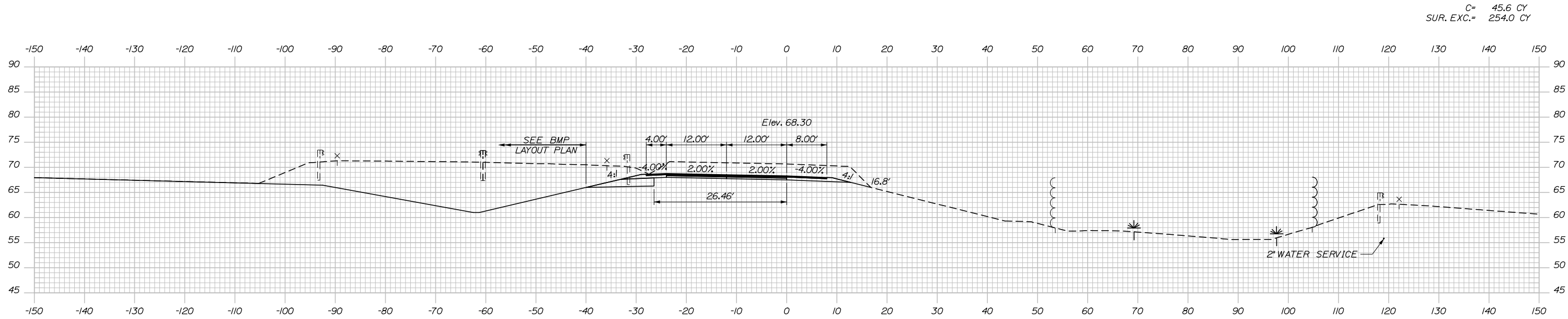
CONTRACT: 2021.07

SHEET NUMBER: XS-87

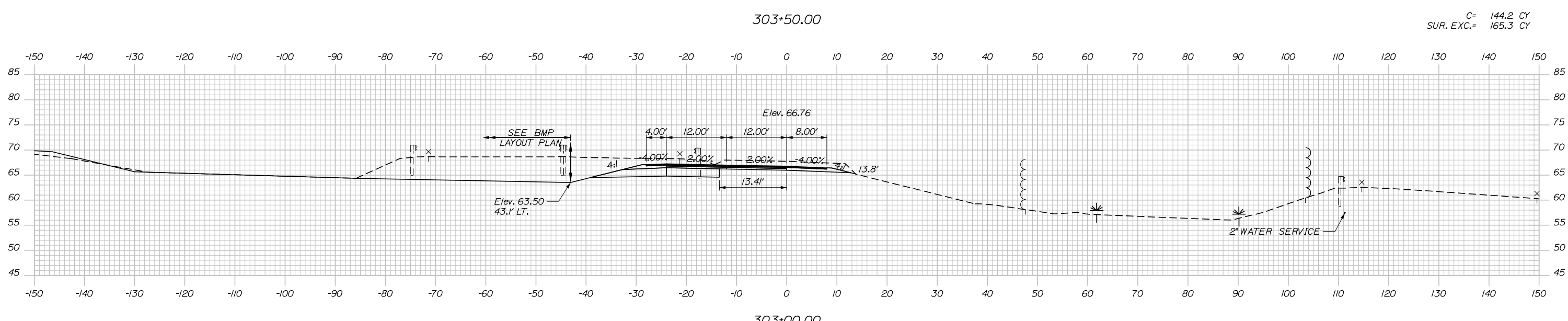
221 OF 431

Filename: Xsect - Ramp C and C-1.dgn

Date: 1/14/2021

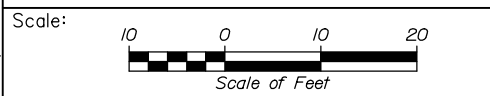


C= 45.6 CY
SUR. EXC.= 254.0 CY



C= 144.2 CY
SUR. EXC.= 165.3 CY

Filename: Xsect - Ramp C and C-1.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

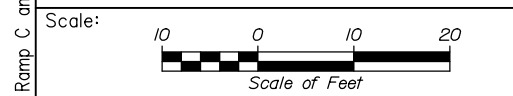
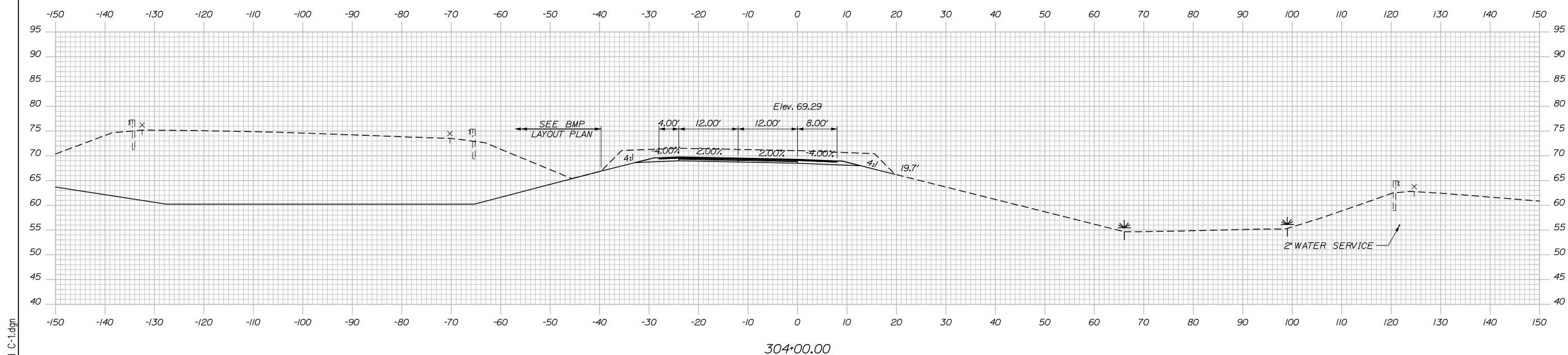
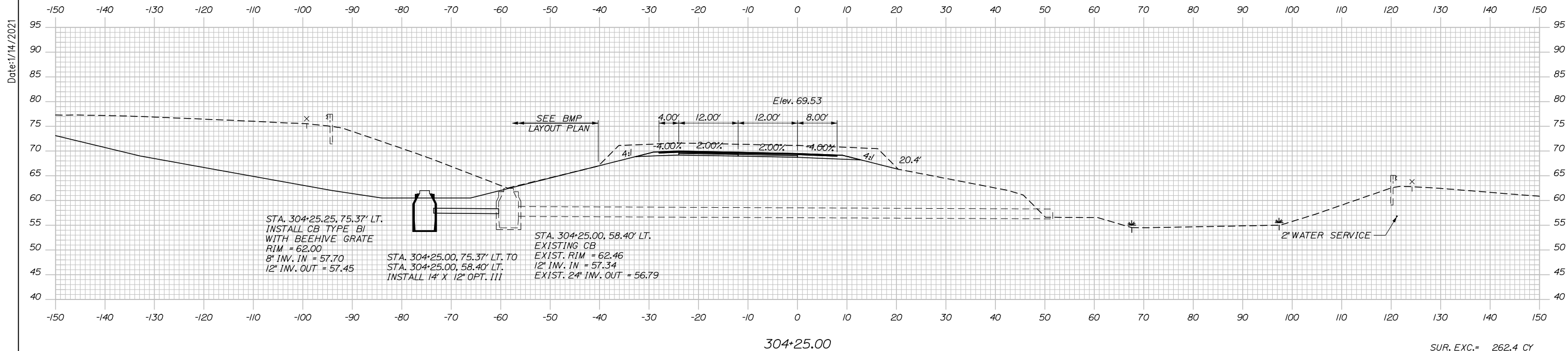
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 303+00 TO STA. 303+50**

SHEET NUMBER: XS-88
222 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

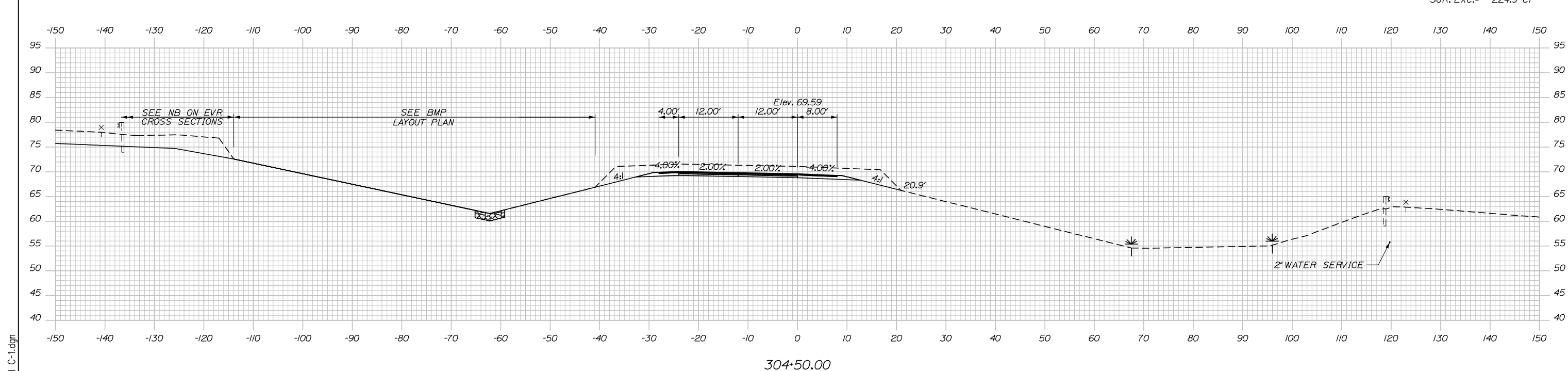
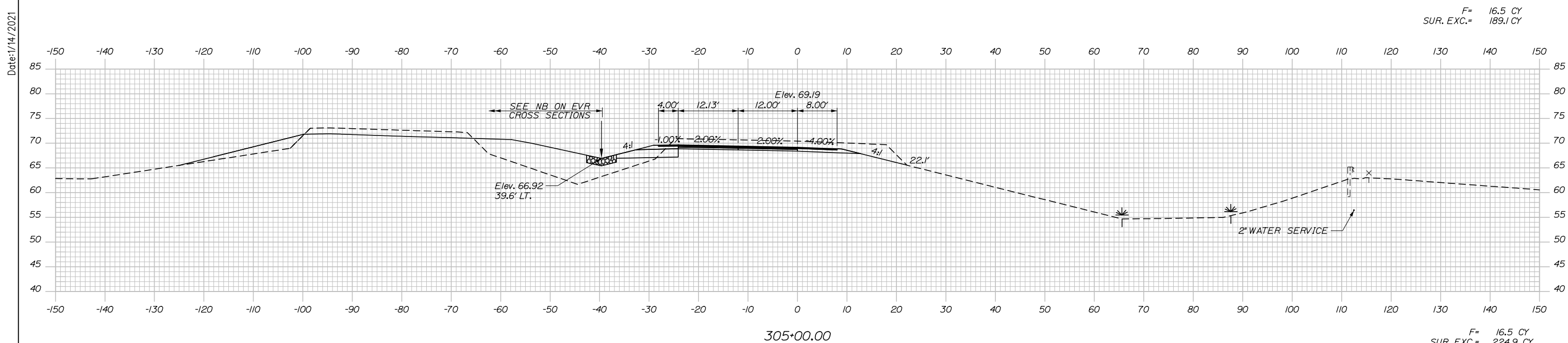
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 304+00 TO STA. 304+25

SHEET NUMBER: XS-89
 223 OF 431

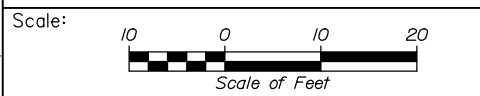
CONTRACT: 2021.07

Filename: Xsect - Ramp C and C-1.dgn

Date: 1/14/2021



Filename: Xsect - Ramp C and C-1.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

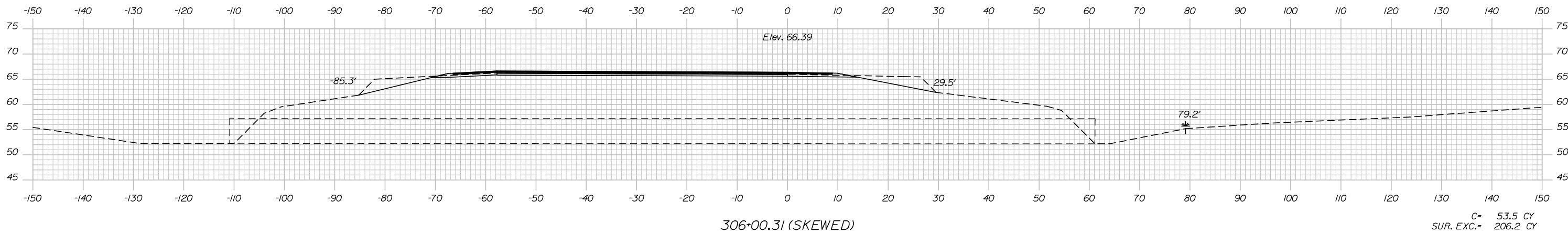
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 304+50 TO STA. 305+00**

SHEET NUMBER: XS-90
 224 OF 431

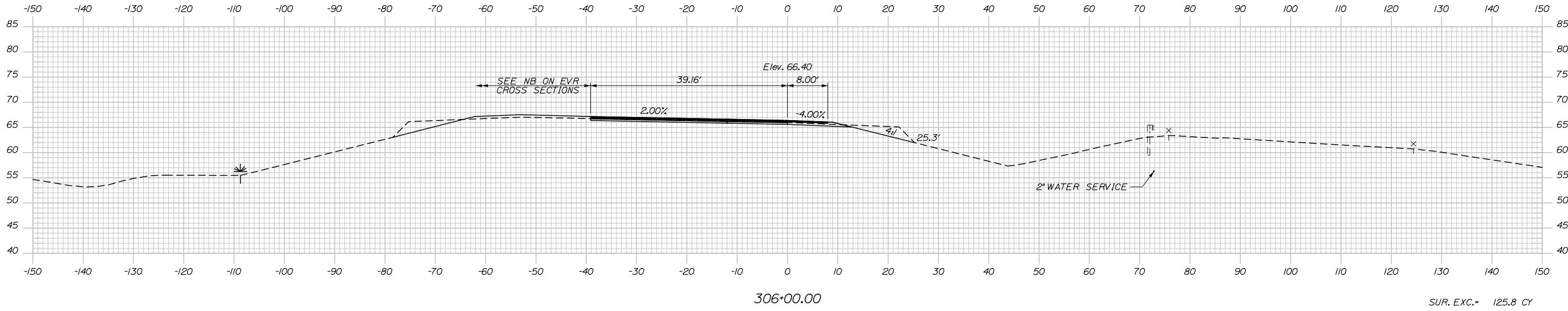
CONTRACT: 2021.07

STA. 306+07.35 RAMP C @ =
 STA. 354+70.89 NB ON EVR @ 73.00' RT.

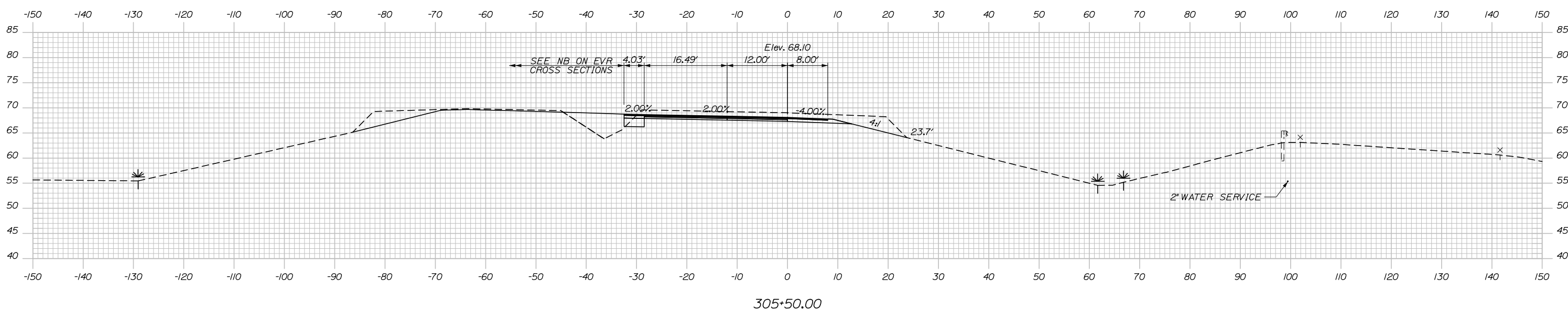
Date: 1/14/2021



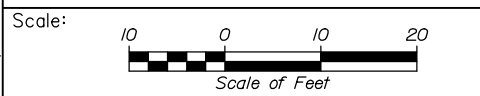
C= 53.5 CY
 SUR. EXC.= 206.2 CY



SUR. EXC.= 125.8 CY



Filename: Xsect - Ramp C and C-1.dgn



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THE GOLD STAR
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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 305+50 TO STA. 306+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

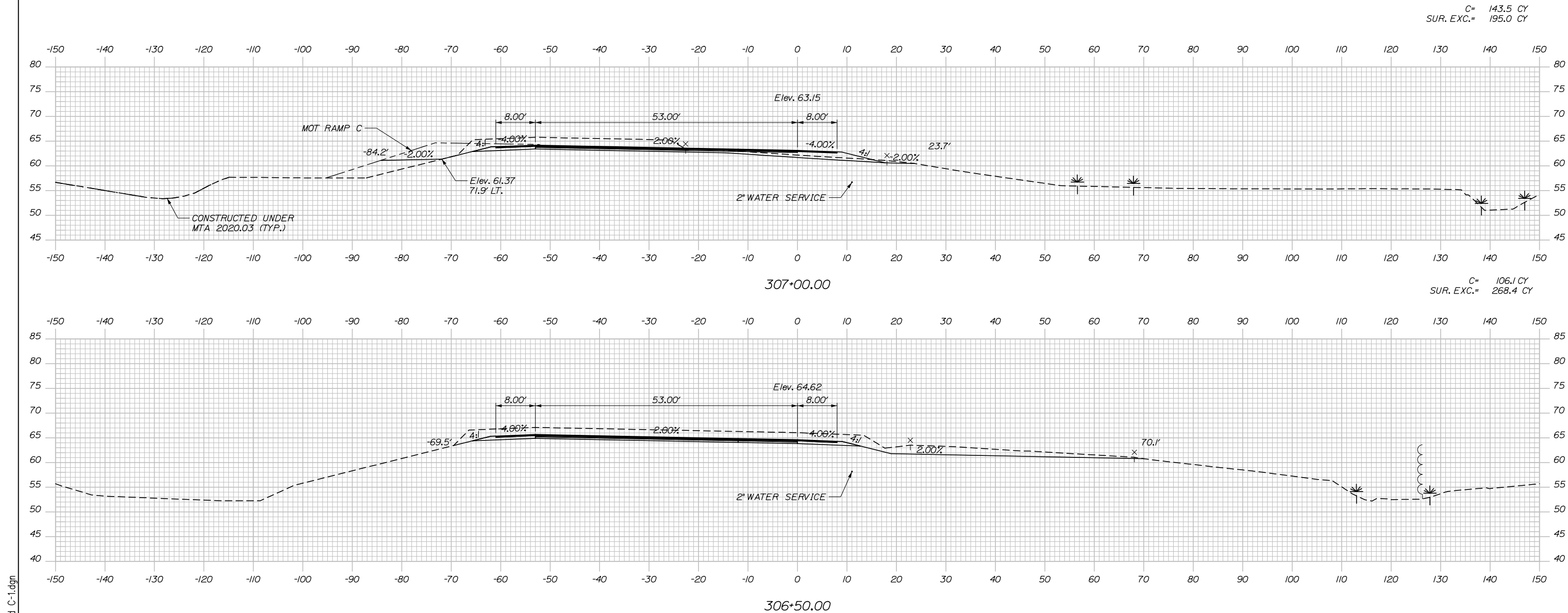
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: XS-91

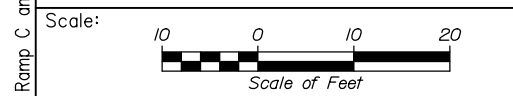
225 OF 431

Date: 1/14/2021



C= 143.5 CY
SUR. EXC.= 195.0 CY

C= 106.1 CY
SUR. EXC.= 268.4 CY



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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 306+50 TO STA. 307+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
Drawn	By	Date	In Charge of
	CDH	09\20	JRH
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

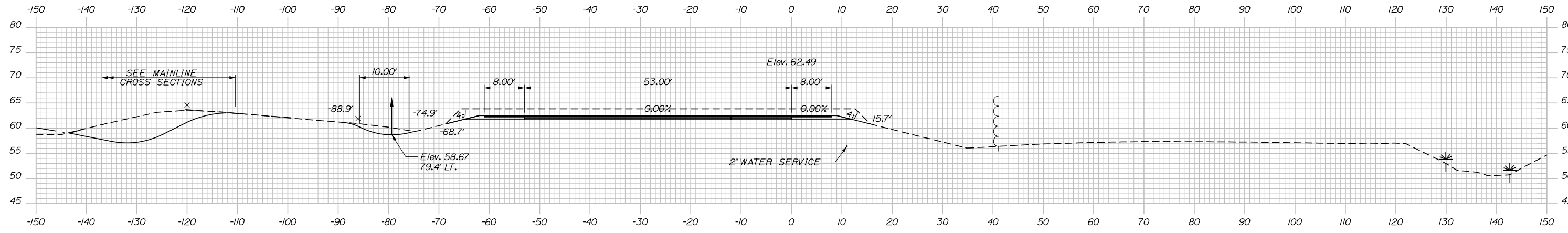
SHEET NUMBER: XS-92

226 OF 431

Filename: Xsect - Ramp C and C-1.dgn

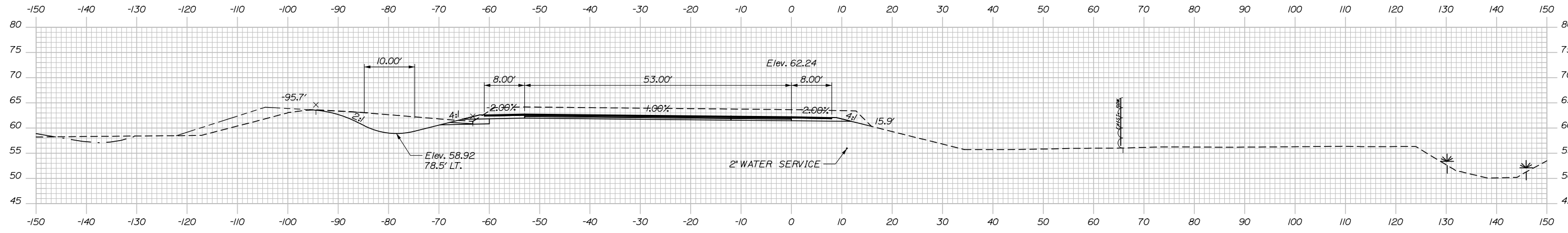
C= 301.4 CY
 F= 2.7 CY
 SUR. EXC.= 438.5 CY

Date: 1/14/2021



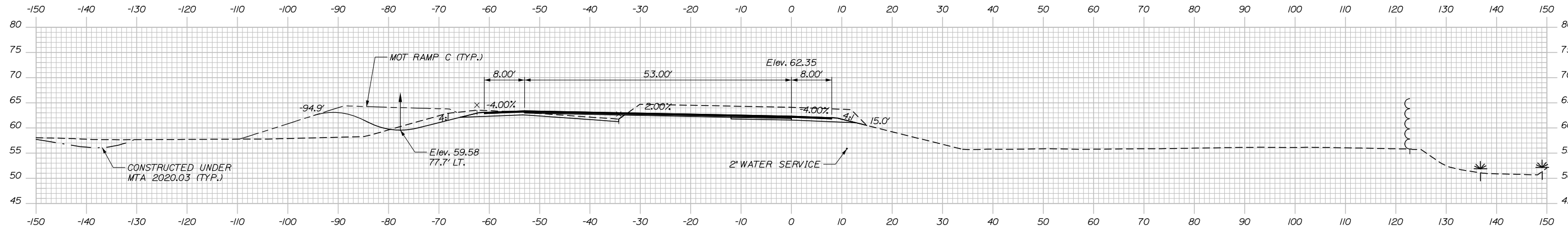
308+50.00

C= 65.9 CY
 SUR. EXC.= 316.1 CY

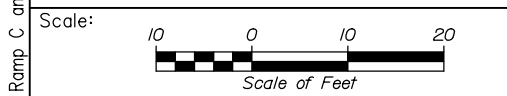


308+00.00

C= 144.8 CY
 SUR. EXC.= 255.5 CY



307+50.00



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

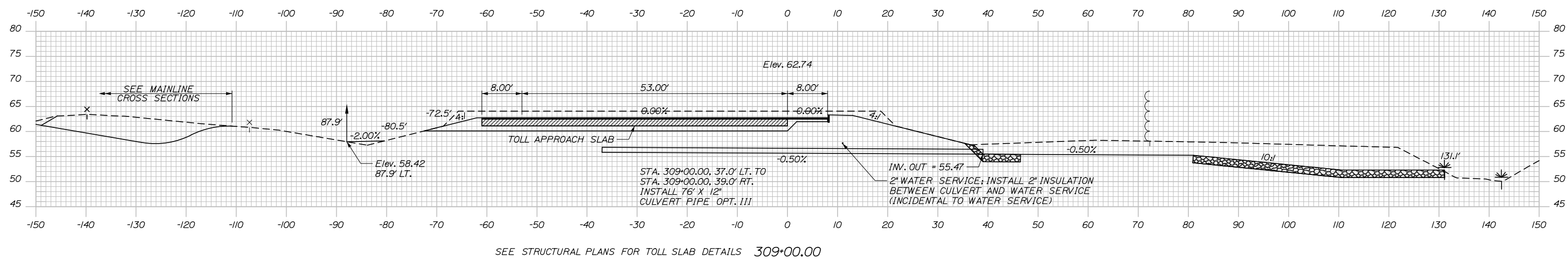
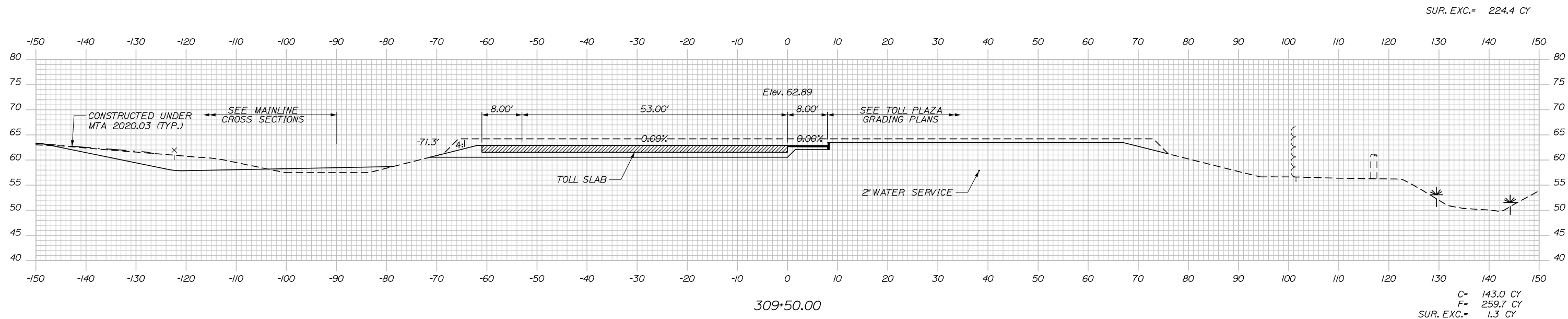
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 307+50 TO STA. 308+50**

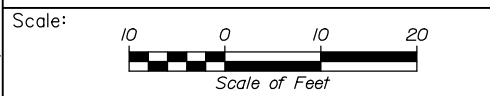
SHEET NUMBER: XS-93
 227 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Filename: Xsect - Ramp C and C-1.dgn



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

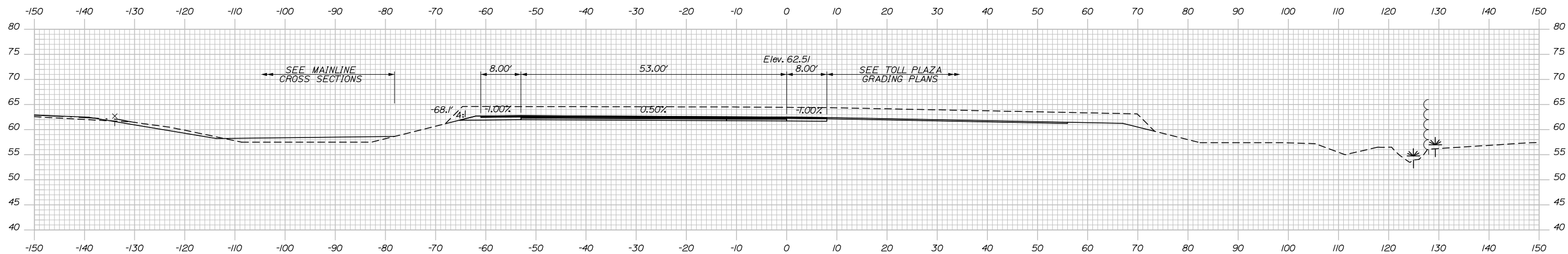
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 309+00 TO STA. 309+50**

SHEET NUMBER: XS-94
 228 OF 431

CONTRACT: 2021.07

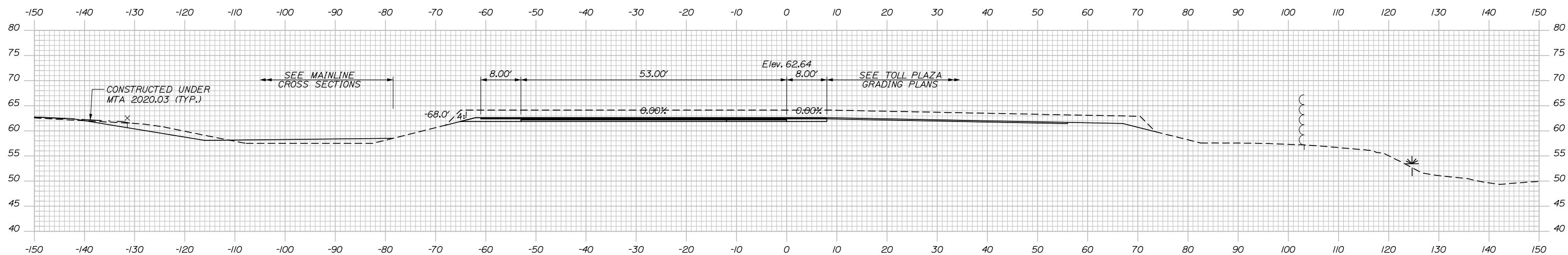
Date: 1/14/2021

Filename: Xsect - Ramp C and C-1.dgn

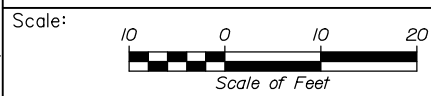


310+25.00

SUR. EXC.= 856.7 CY



310+00.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 310+00 TO STA. 310+25

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

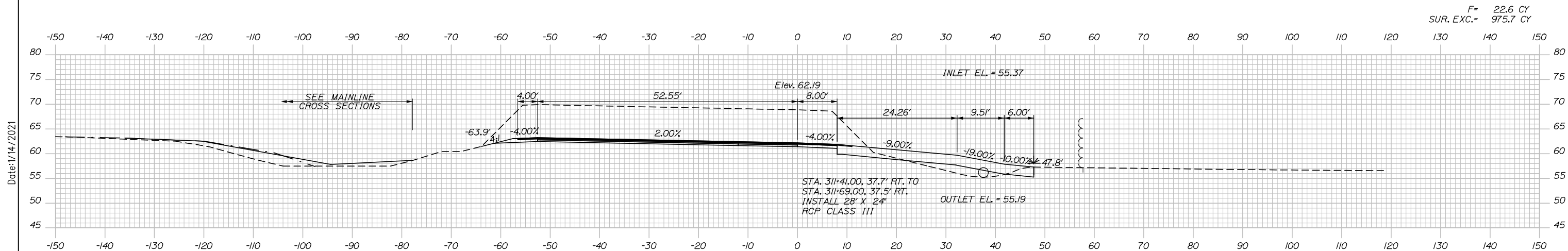
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

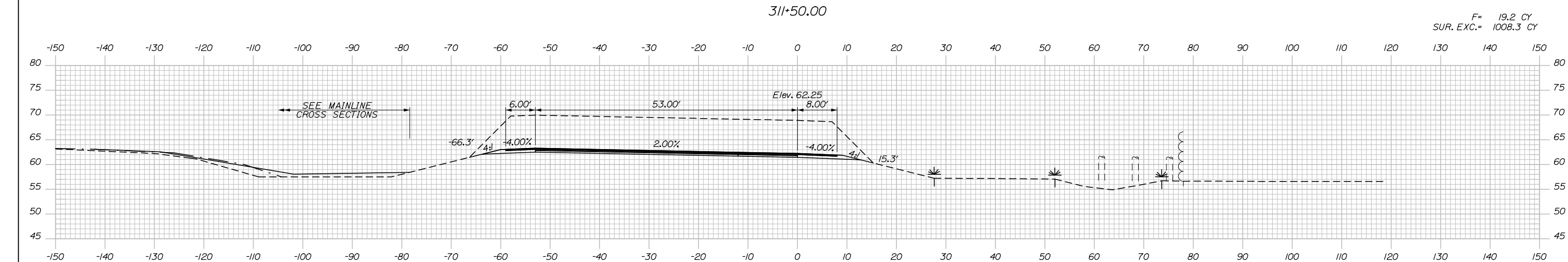
SHEET NUMBER: XS-95

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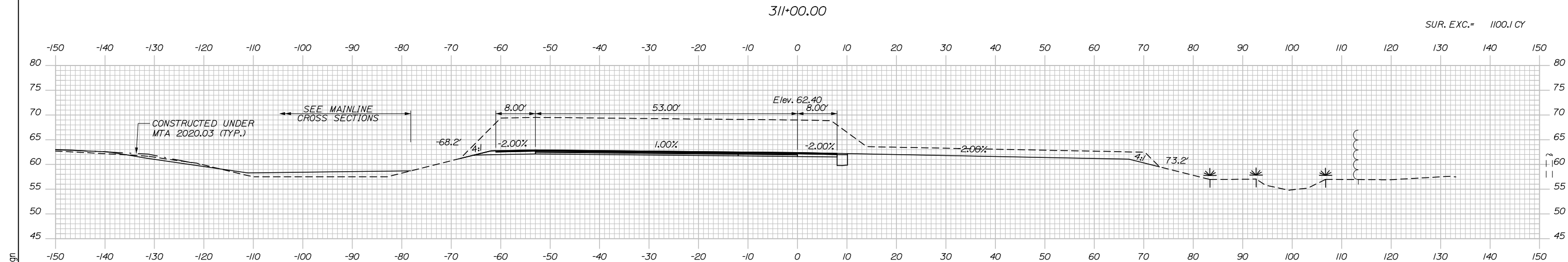
Date: 1/14/2021



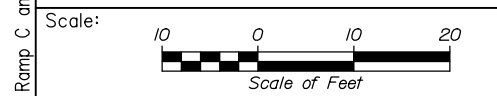
F= 22.6 CY
SUR. EXC.= 975.7 CY



F= 19.2 CY
SUR. EXC.= 1008.3 CY



SUR. EXC.= 1100.1 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

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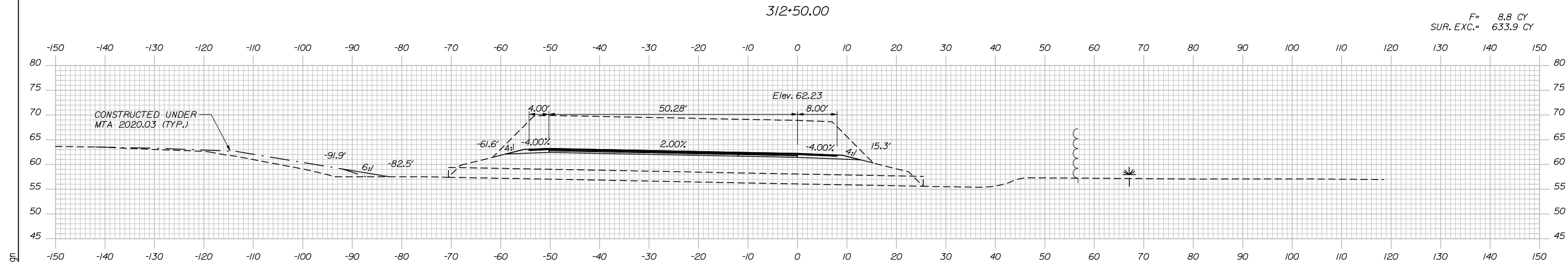
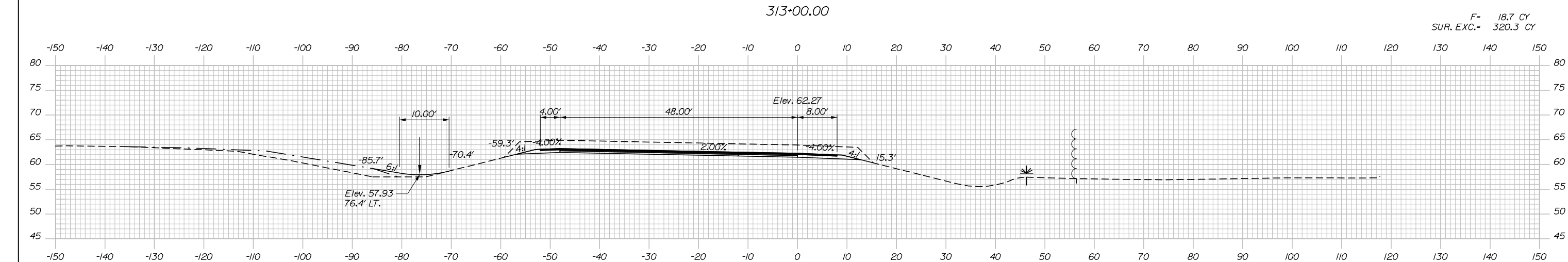
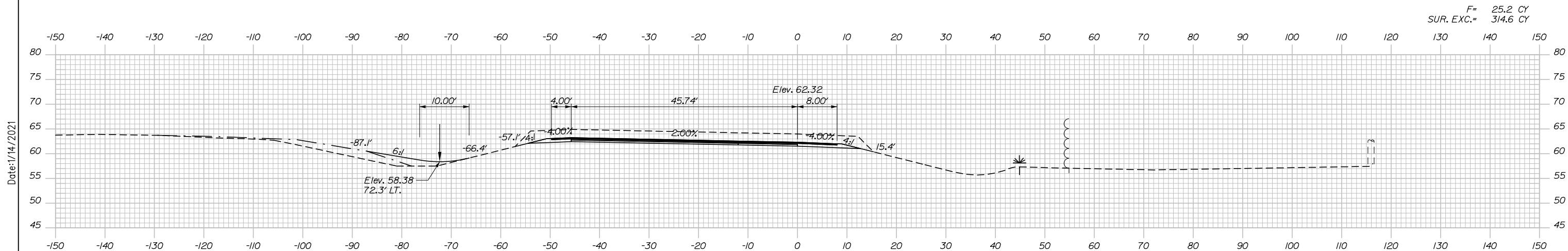
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 310+50 TO STA. 311+50

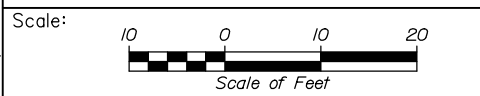
SHEET NUMBER: XS-96
CONTRACT: 2021.07
230 OF 431

Filename: Xsect - Ramp C and C-1.dgn

Date: 1/14/2021



Filename: Xsect - Ramp C and C-1.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

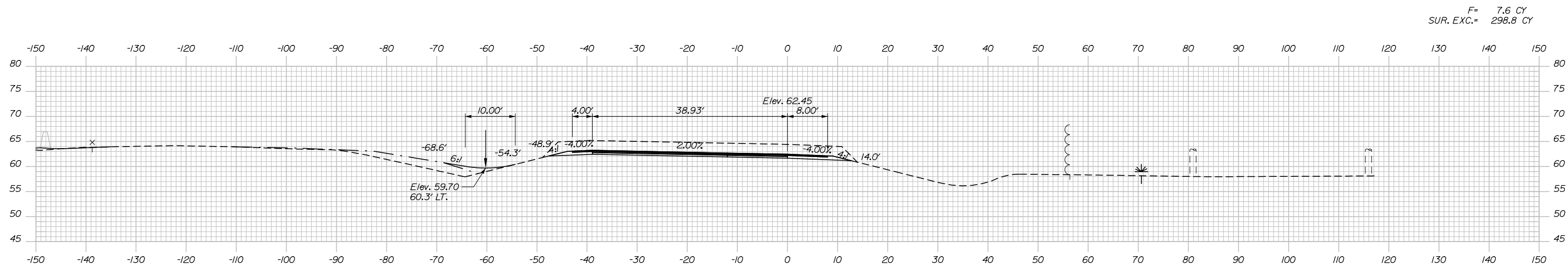
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 312+00 TO STA. 313+00**

SHEET NUMBER: XS-97
 231 OF 431

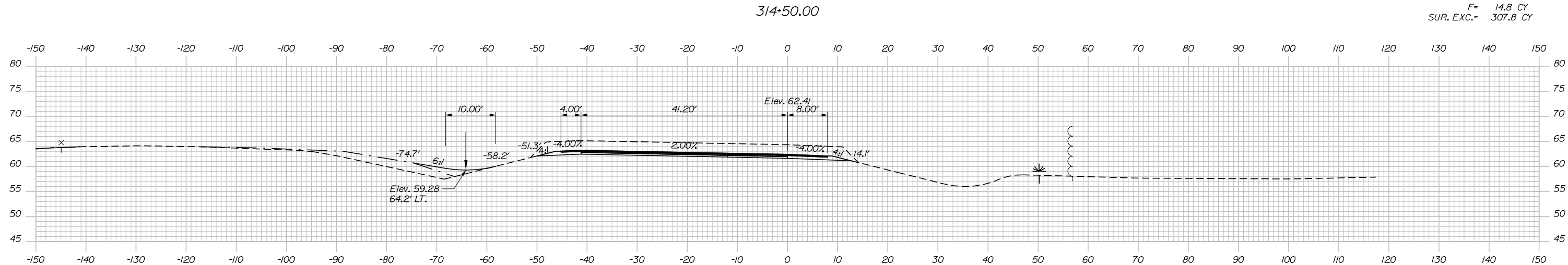
CONTRACT: 2021.07

Date: 1/14/2021

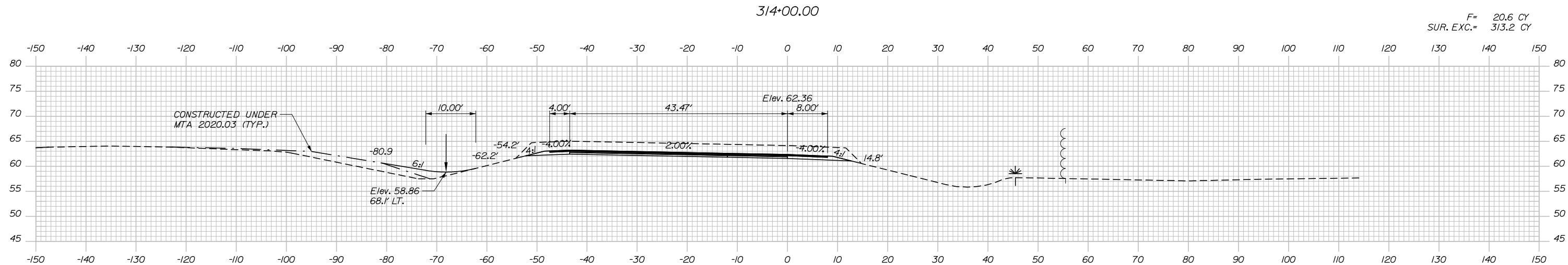
Filename: Xsect - Ramp C and C-1.dgn



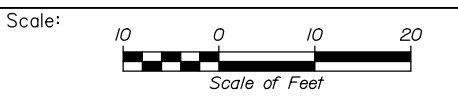
F= 7.6 CY
SUR. EXC.= 298.8 CY



F= 14.8 CY
SUR. EXC.= 307.8 CY



F= 20.6 CY
SUR. EXC.= 313.2 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

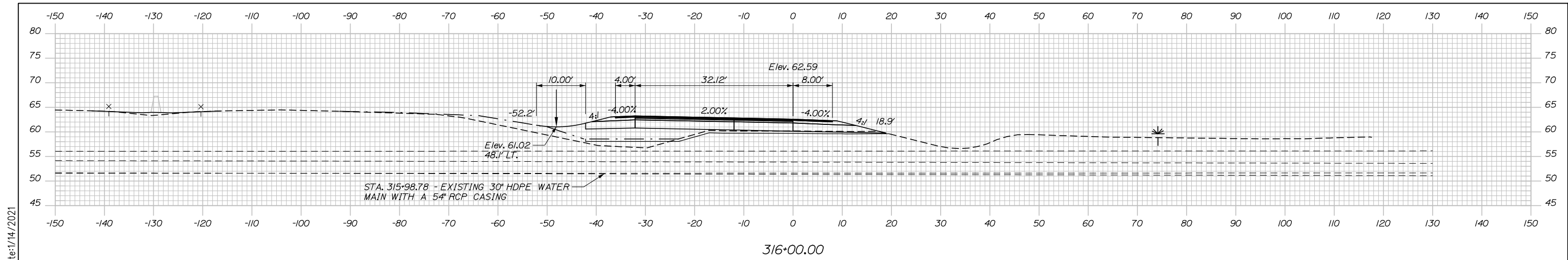
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 313+50 TO STA. 314+50

SHEET NUMBER: XS-98
CONTRACT: 2021.07
232 OF 431

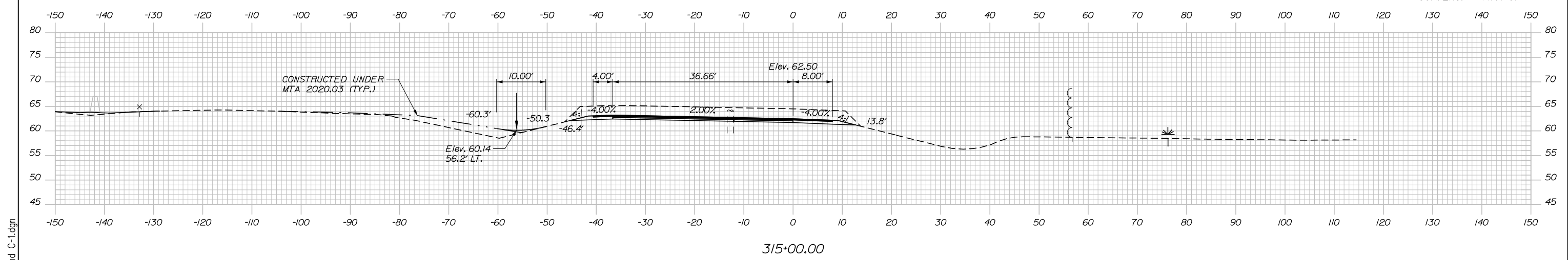
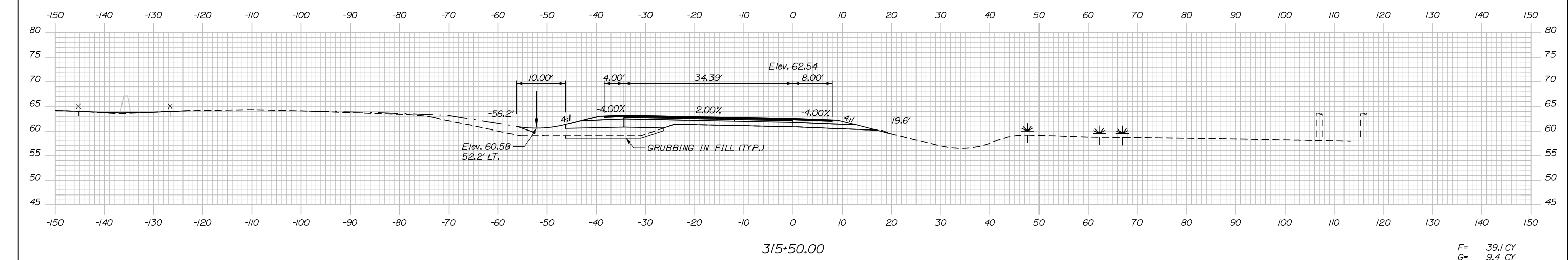
Date: 1/14/2021



316+00.00

STA. 315+60.00 REMOVE EXISTING 12" RCP

C= 2.9 CY
 F= 93.5 CY
 G= 34.7 CY
 SUR. EXC.= 0.3 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

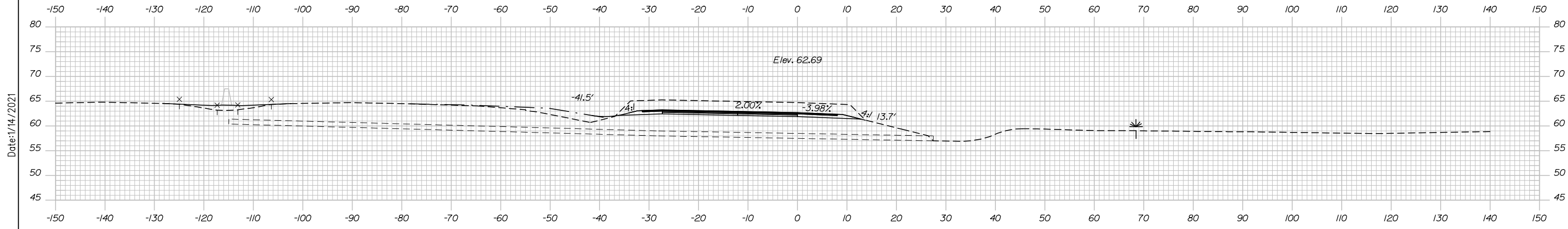
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP C
 STA. 315+00 TO STA. 316+00

SHEET NUMBER: XS-99
 233 OF 431

CONTRACT: 2021.07

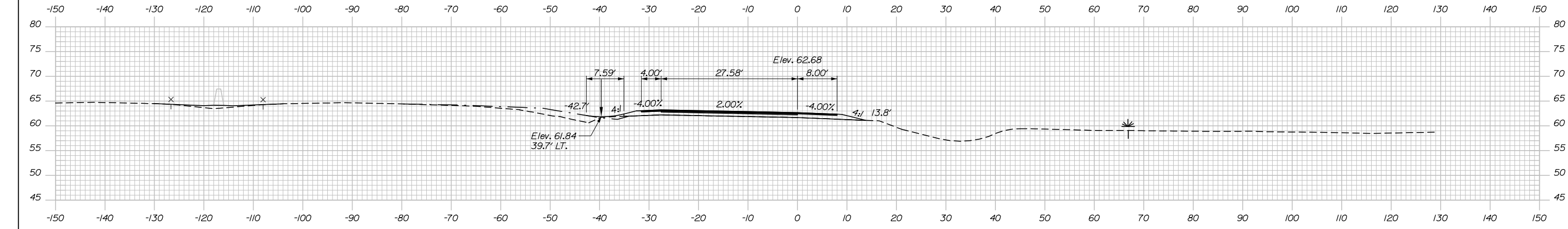
Filename: Xsect - Ramp C and C-1.dgn

Date: 1/14/2021



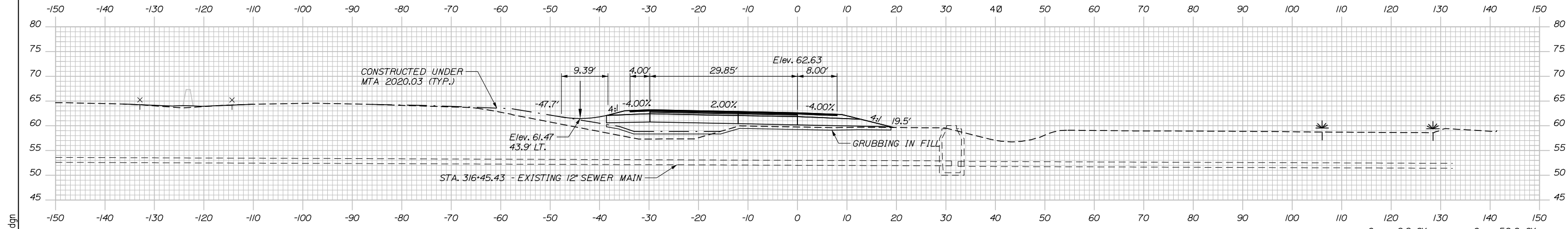
317+06.29 (SKEWED)

F= 3.0 CY
SUR. EXC.= 116.6 CY



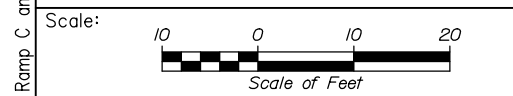
317+00.00

F= 55.8 CY
G= 26.8 CY



316+50.00

C= 2.9 CY
F= 109.0 CY
G= 52.2 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 316+50 TO STA 317+06**

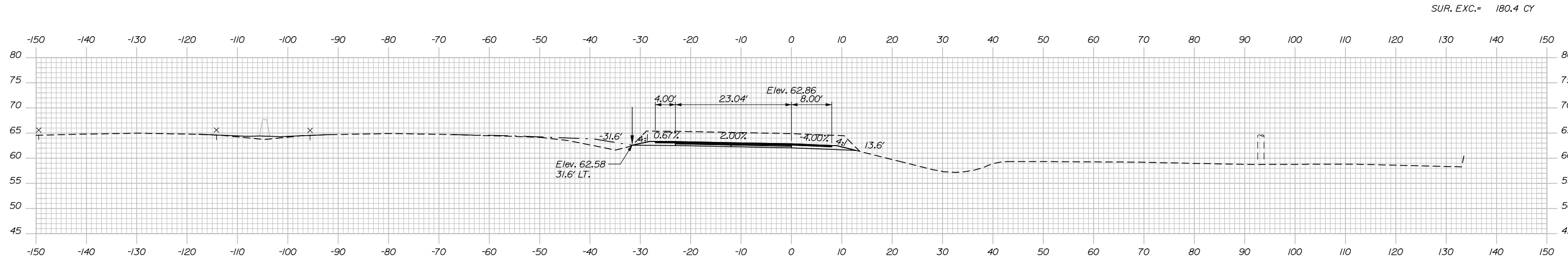
SHEET NUMBER: XS-100
234 OF 431

CONTRACT: 2021.07

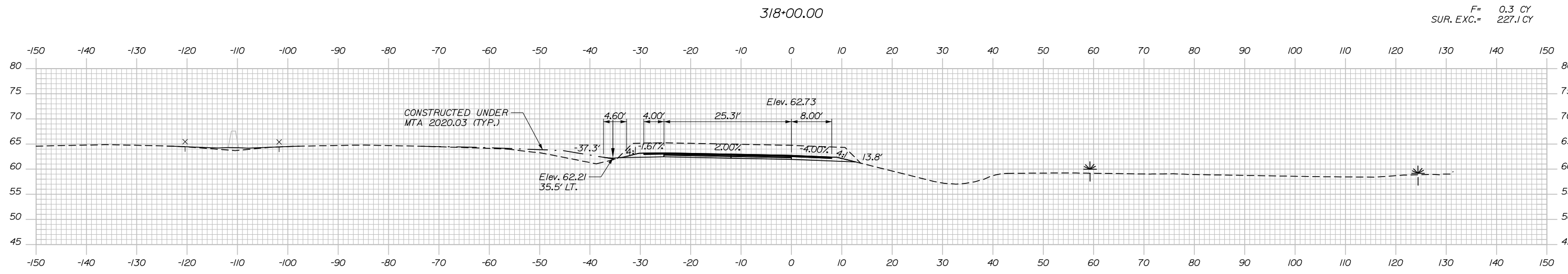
Filename: Xsect - Ramp C and C-1.dgn

Date: 1/14/2021

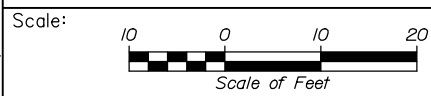
Filename: Xsect - Ramp C and C-1.dgn



SUR. EXC.= 180.4 CY



F= 0.3 CY
SUR. EXC.= 227.1 CY



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

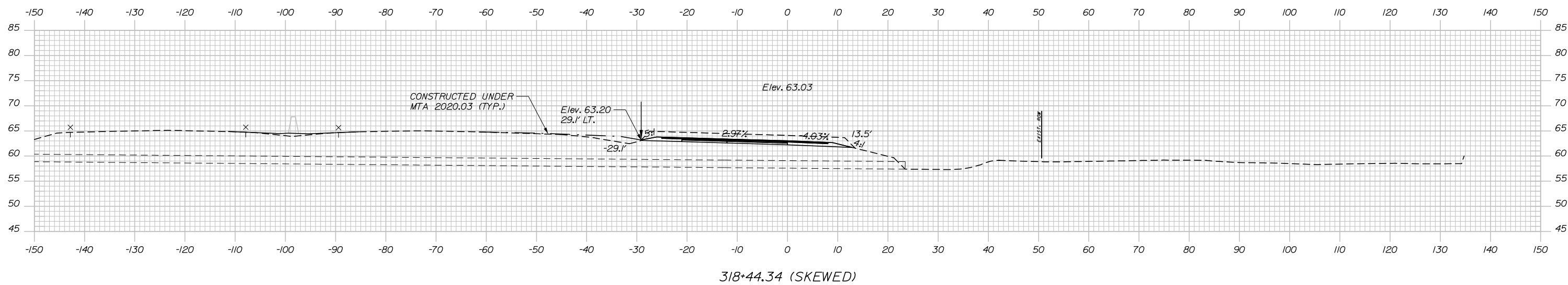
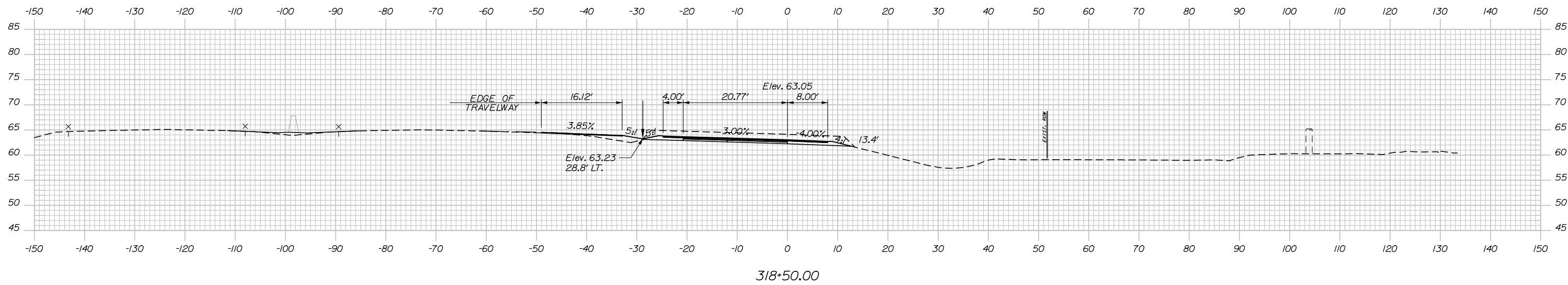
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP C
STA. 317+50 TO STA. 318+00

SHEET NUMBER: XS-101
235 OF 431

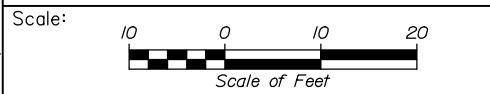
CONTRACT: 2021.07

Date: 1/14/2021

C= 0.4 CY
SUR. EXC.= 104.0 CY



Filename: Xsect - Ramp C and C-1.dgn



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 318+44 TO STA. 318+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

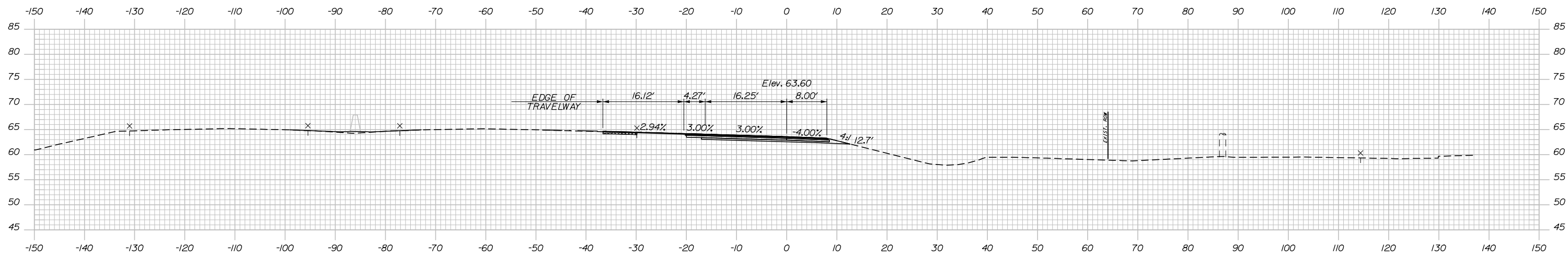
CONTRACT: 2021.07

SHEET NUMBER: XS-102

236 OF 431

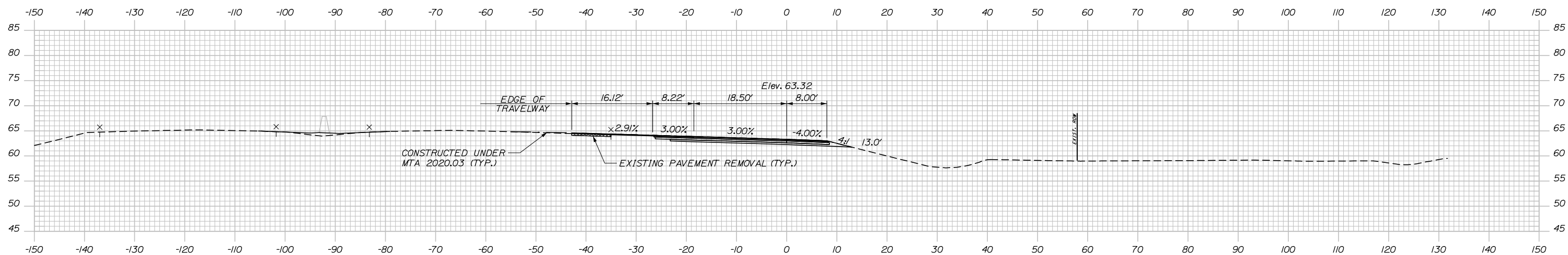
Date: 1/14/2021

C= 6.0 CY
SUR. EXC.= 44.3 CY



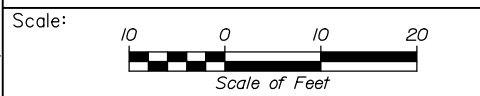
319+50.00

C= 4.4 CY
SUR. EXC.= 58.2 CY



319+00.00

Filename: Xsect - Ramp C and C-1.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

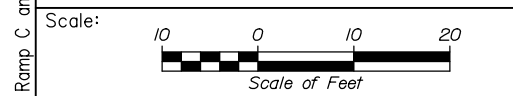
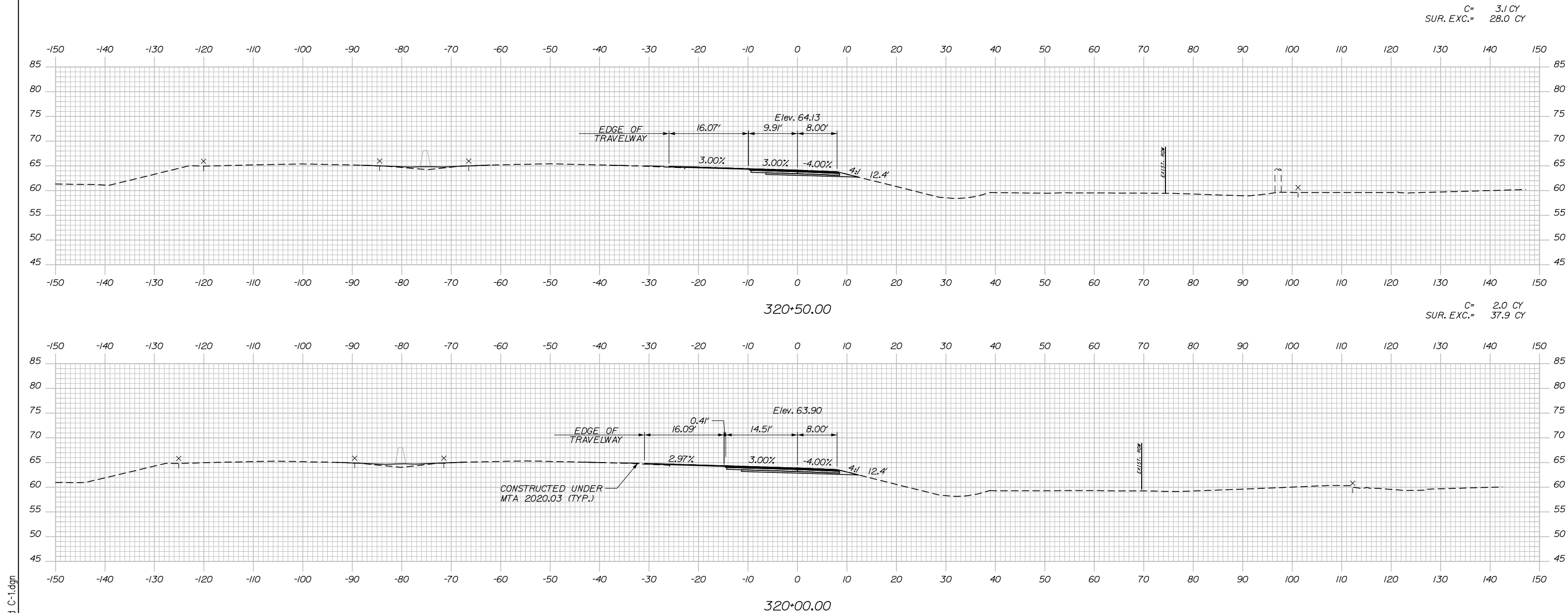
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 319+00 TO STA. 319+50**

SHEET NUMBER: XS-103
237 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP C
 STA. 320+00 TO STA. 320+50

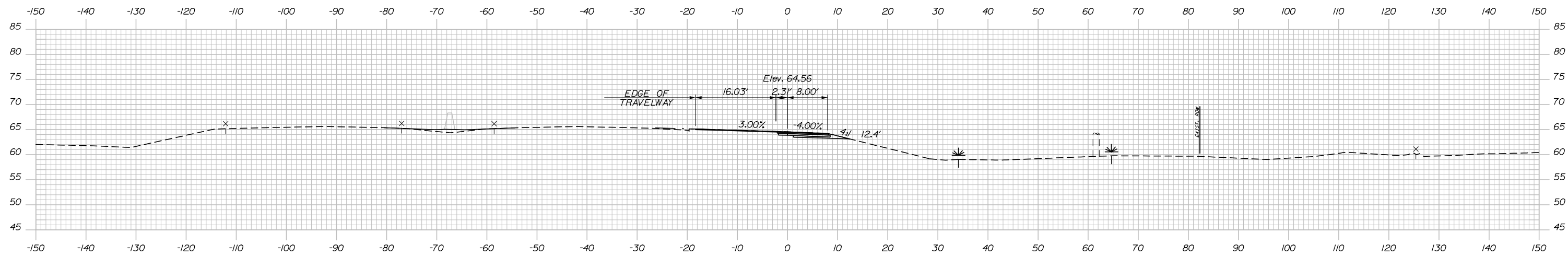
SHEET NUMBER: XS-104
 238 OF 431

CONTRACT: 2021.07

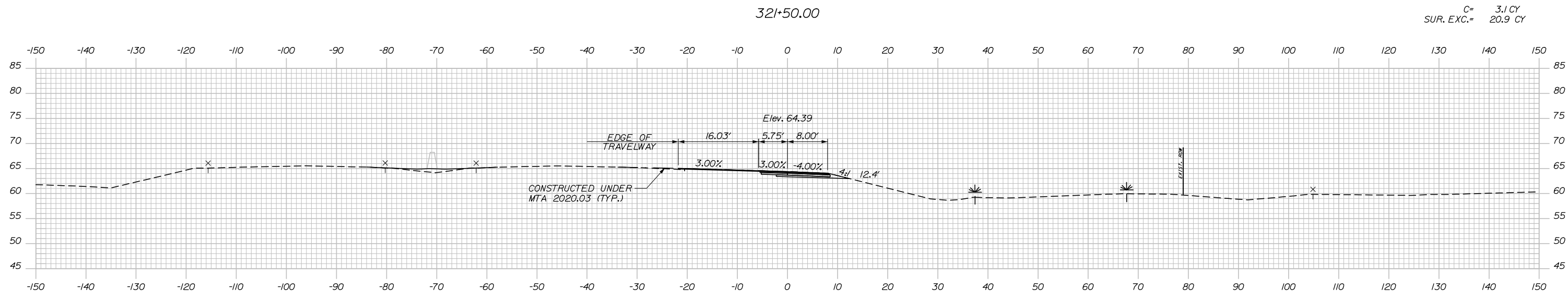
Filename: Xsect - Ramp C and C-1.dgn

Date: 1/14/2021

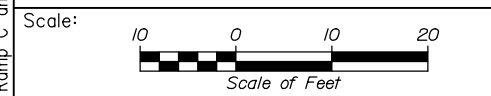
C= 11.0 CY
 F= 0.9 CY
 SUR. EXC.= 10.4 CY



C= 3.1 CY
 SUR. EXC.= 20.9 CY



Filename: Xsect - Ramp C and C-1.dgn



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

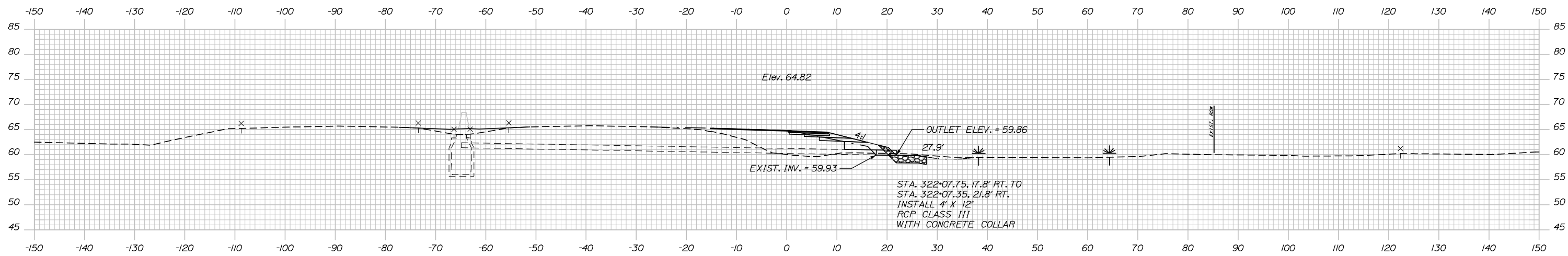
**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 321+00 TO STA. 321+50**

SHEET NUMBER: XS-105
 239 OF 431

CONTRACT: 2021.07

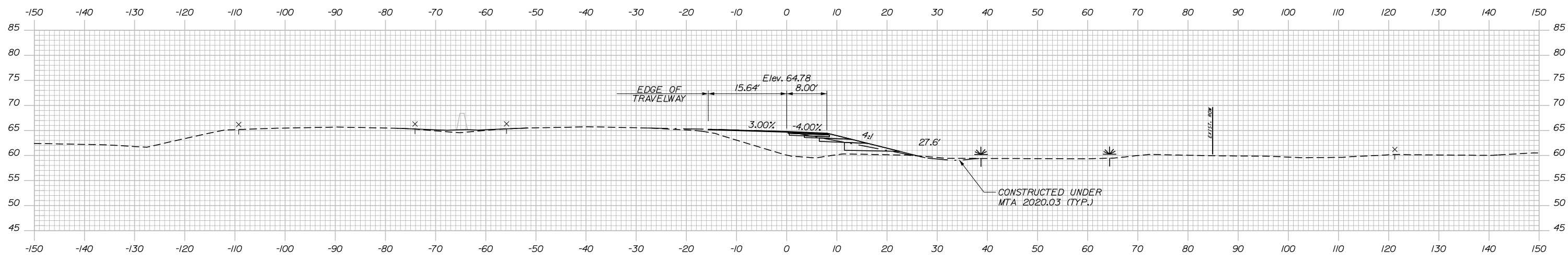
Date: 1/14/2021

Filename: Xsect - Ramp C and C-1.dgn

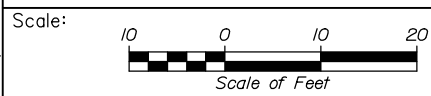


322+08.66 (SKEWED)

C= 27.4 CY
F= 1.2 CY



322+00.00



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP C
STA. 322+00 TO STA. 322+09

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
Drawn	By	Date	In Charge of
	CDH	09\20	JRH
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

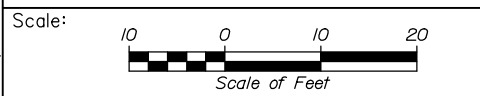
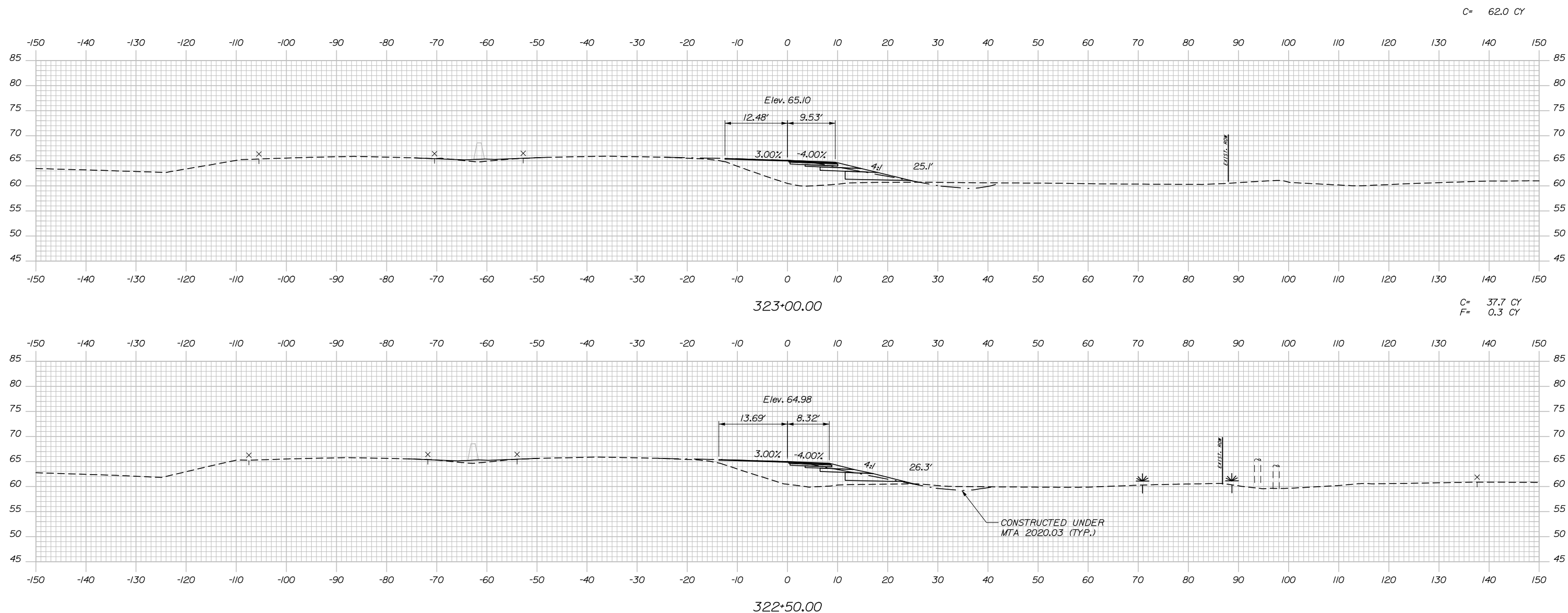
CONTRACT: 2021.07

SHEET NUMBER: XS-106

240 OF 431

Date: 1/14/2021

Filename: Xsect - Ramp C and C-1.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP C
 STA. 322+50 TO STA. 323+00

SHEET NUMBER: XS-107
 241 OF 431

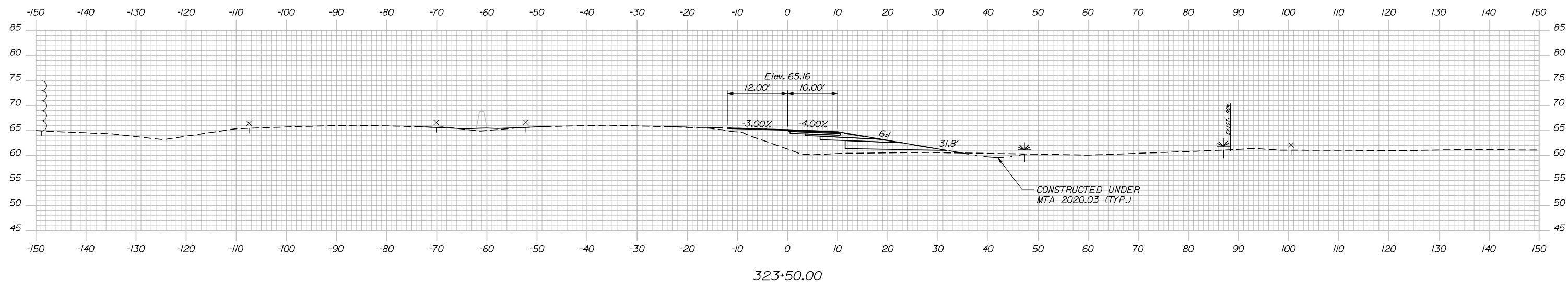
CONTRACT: 2021.07

Date: 1/14/2021

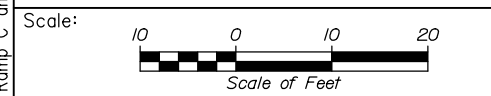
STA. 323+56.75 RAMP C @ =
 STA. 2244+48.26 MAINE TURNPIKE @ 61.00' RT.

STA. 323+56.75
 LIMIT OF WORK

C= 11.1 CY



Filename: Xsect - Ramp C and C-1.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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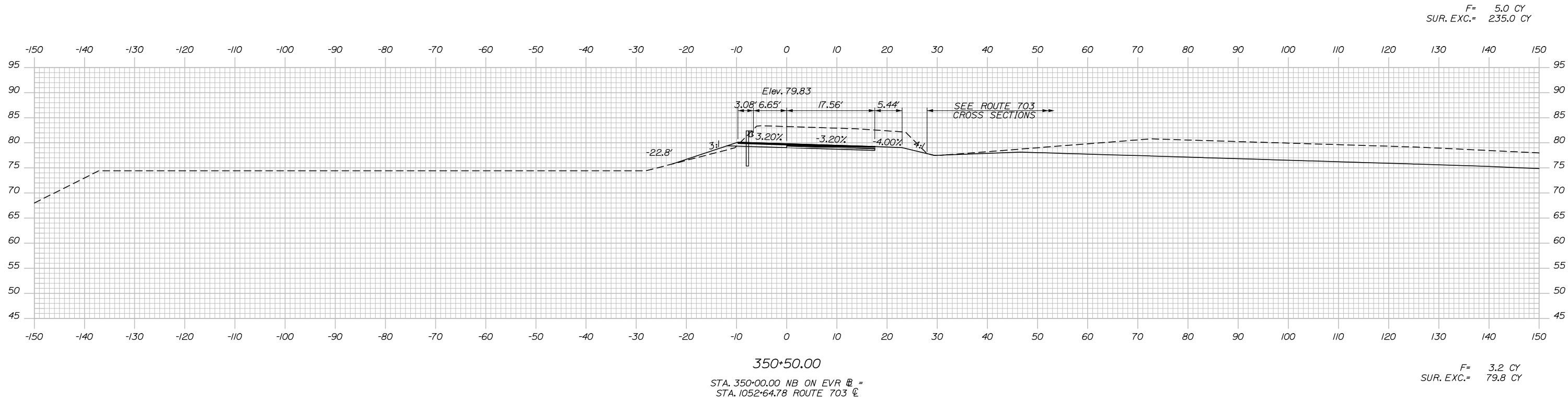
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – RAMP C
 STA. 323+50 TO STA. 323+50

SHEET NUMBER: XS-108
 242 OF 431

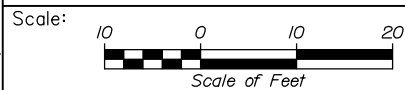
CONTRACT: 2021.07

Date: 1/14/2021



350+50.00
 STA. 350+00.00 NB ON EVR E =
 STA. 1052+64.78 ROUTE 703 E

Filename: Xsect - Ramp C and C-1.dgn



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - NB ON EVR
 STA. 350+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

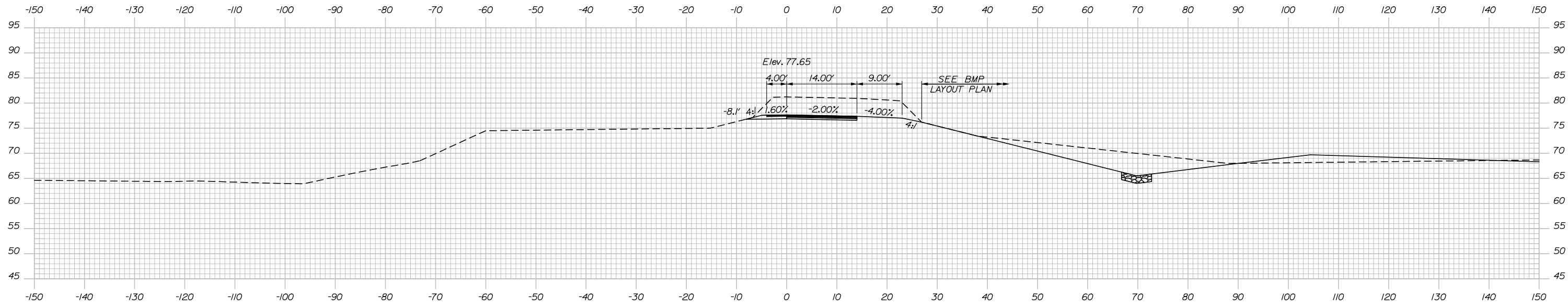
CONTRACT: 2021.07

SHEET NUMBER: XS-109

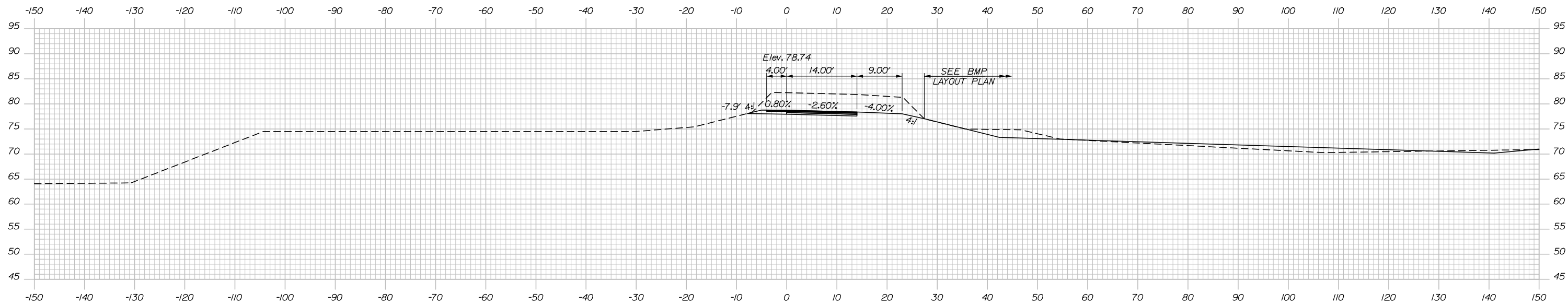
243 OF 431

Date: 1/14/2021

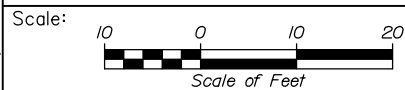
C= 455.1 CY
SUR. EXC.= 60.6 CY



SUR. EXC.= 222.6 CY



Filename: Xsect - Ramp C and C-1.dgn



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - NB ON EVR
 STA. 351+00 TO STA. 351+50

SHEET NUMBER: XS-110

No.	Revision	By	Date

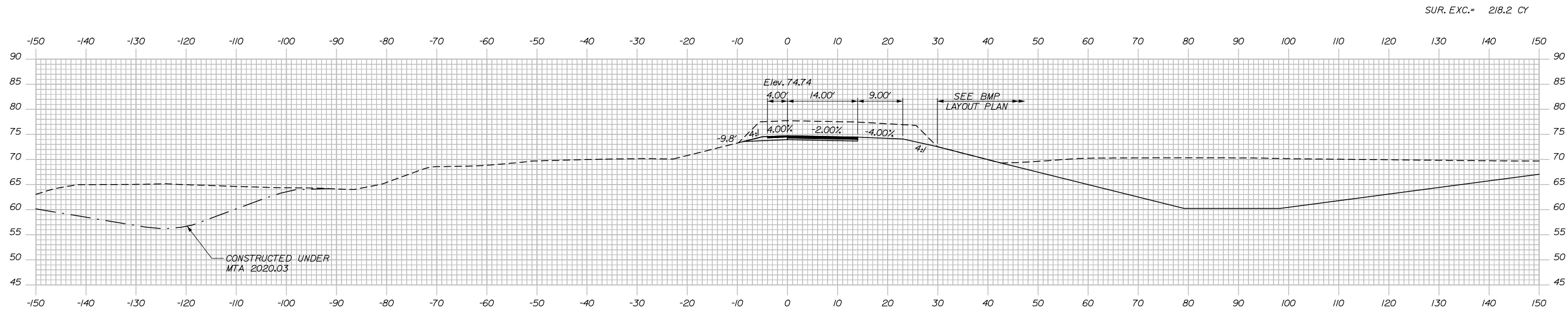
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	CDH	09\20	Checked JRH 09\20
Drawn	CDH	09\20	In Charge of RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

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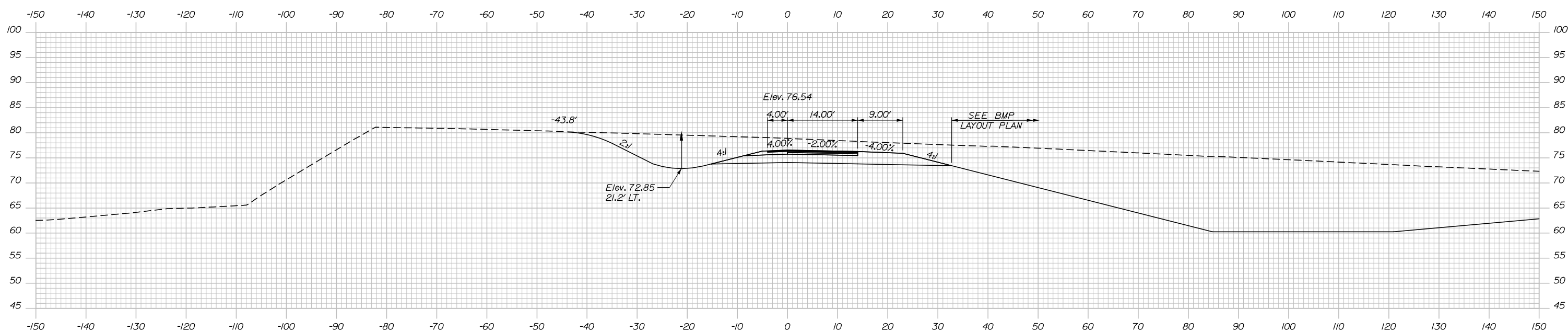
Date: 1/14/2021



SUR. EXC.= 218.2 CY

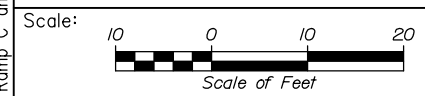
352+50.00

C= 490.7 CY
SUR. EXC.= 49.1 CY



352+00.00

Filename: Xsect - Ramp C and C-1.dgn



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - NB ON EVR
STA. 352+00 TO STA. 352+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

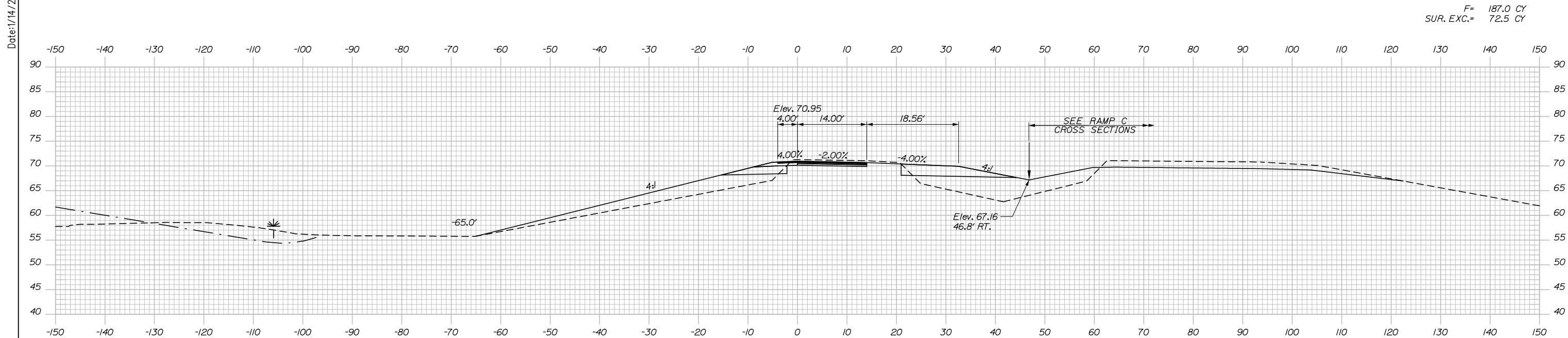
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

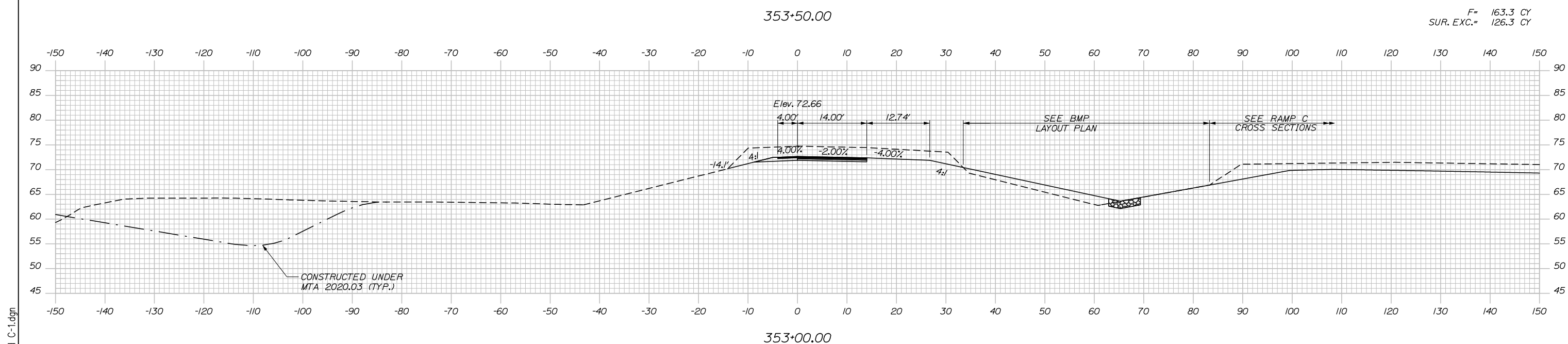
SHEET NUMBER: XS-111

245 OF 431

Date: 1/14/2021

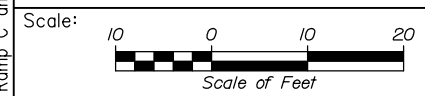


F= 187.0 CY
SUR. EXC.= 72.5 CY



F= 163.3 CY
SUR. EXC.= 126.3 CY

Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - NB ON EVR
STA. 353+00 TO STA. 353+50**

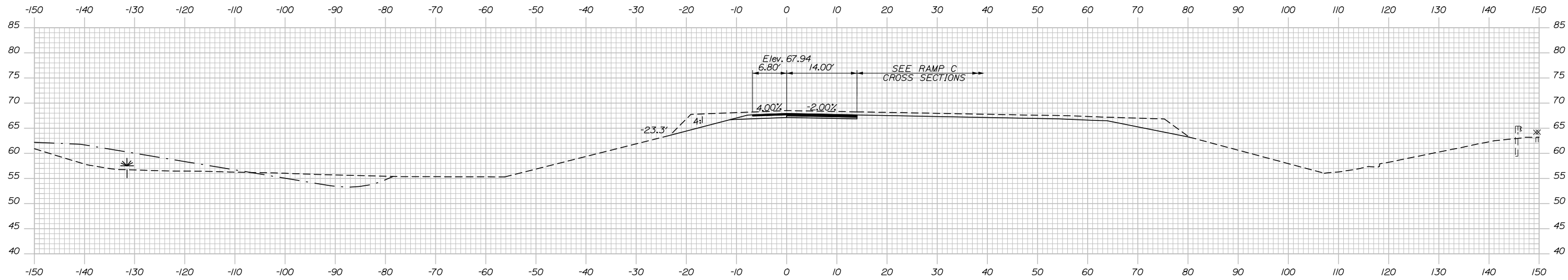
SHEET NUMBER: XS-112
246 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

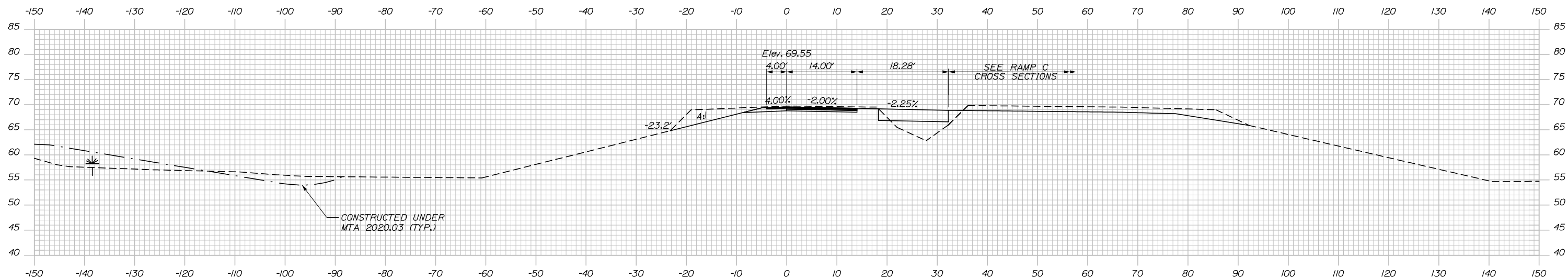
STA. 354+70.89 NB ON EVR R =
STA. 306+07.35 RAMP C R 53.00' LT.

SUR. EXC. = 69.0 CY

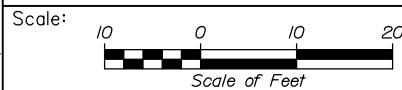


354+50.00

F = 23.7 CY
SUR. EXC. = 104.6 CY



354+00.00



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - NB ON EVR
STA. 354+00 TO STA. 354+50

SHEET NUMBER: XS-113

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	CDH	09\20	
	Checked	JRH	09\20
	By	Date	
	Drawn	CDH	09\20
	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

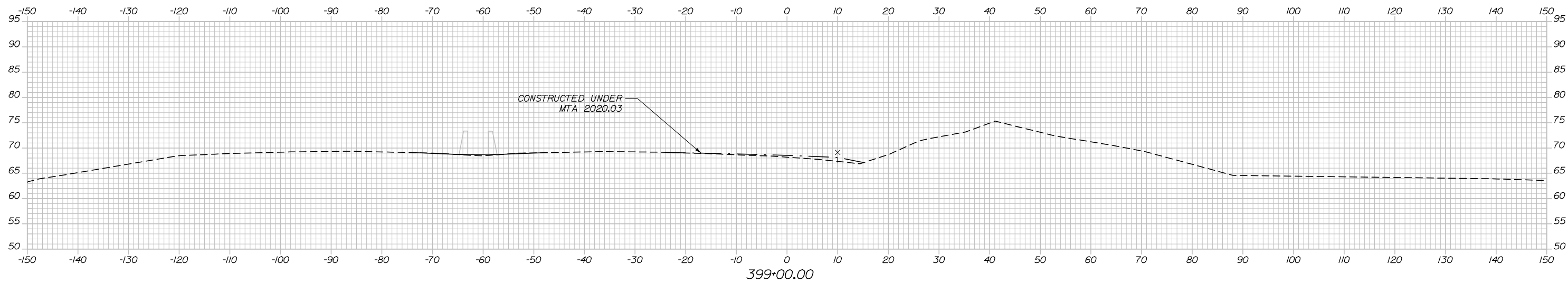
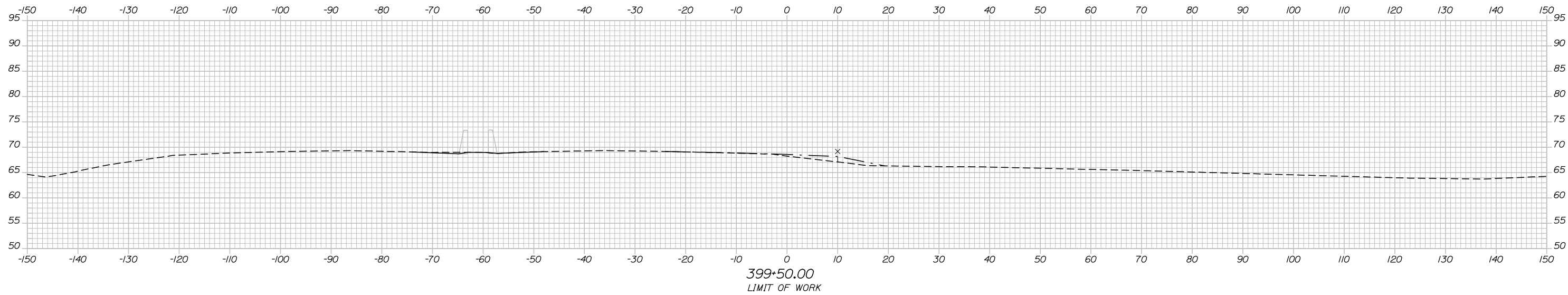
CONTRACT: 2021.07

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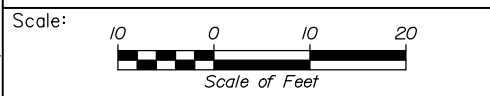
Filename: Xsect - Ramp C and C-1.dgn

Date: 1/14/2021

C= 98.1 CY



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

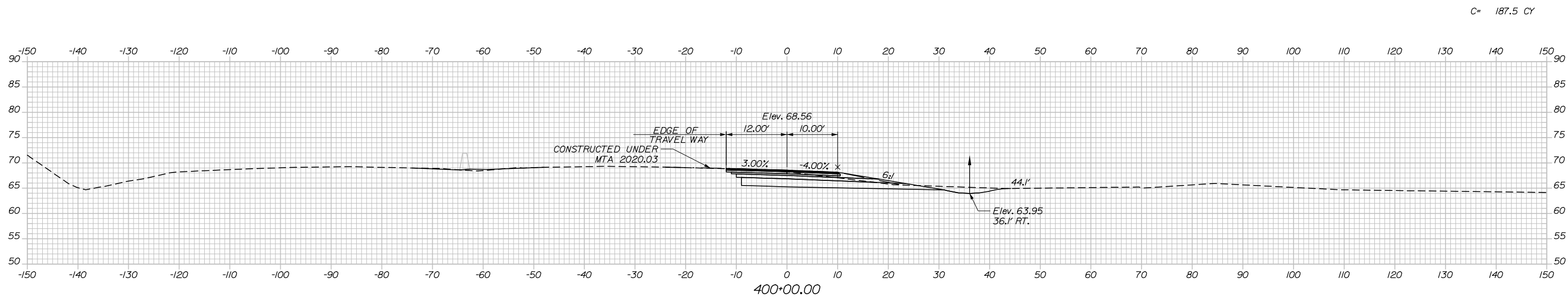
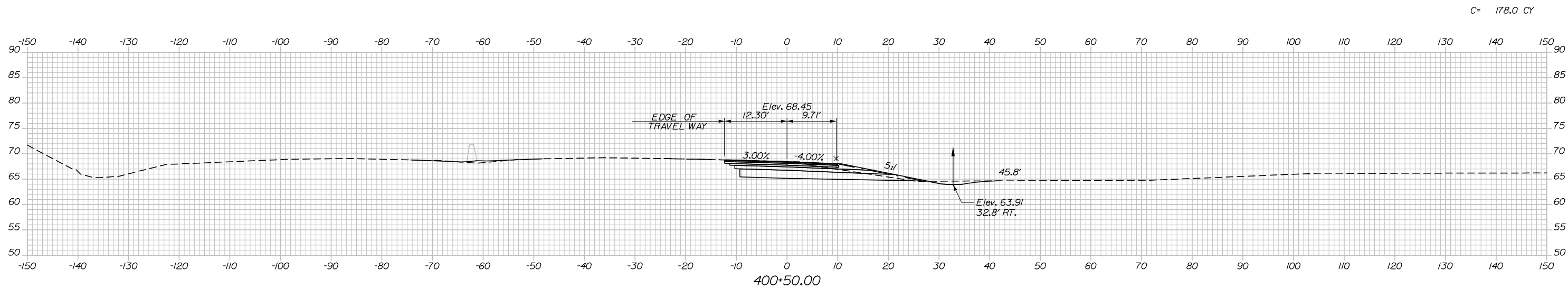
**EXIT 45
 INTERCHANGE RECONFIGURATION**

CROSS SECTIONS - RAMP D
 STA. 399+00 TO STA. 399+50

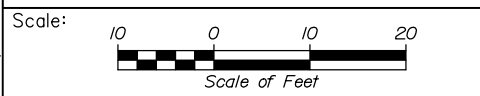
SHEET NUMBER: XS-114
 248 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

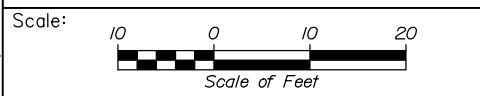
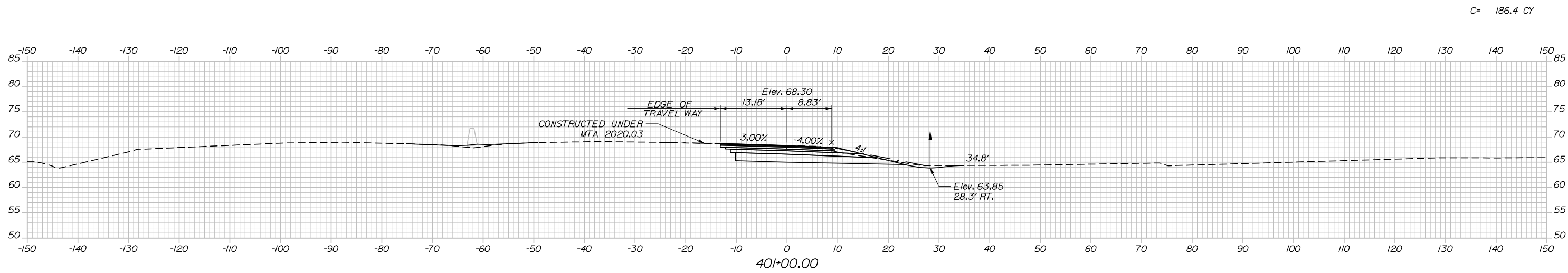
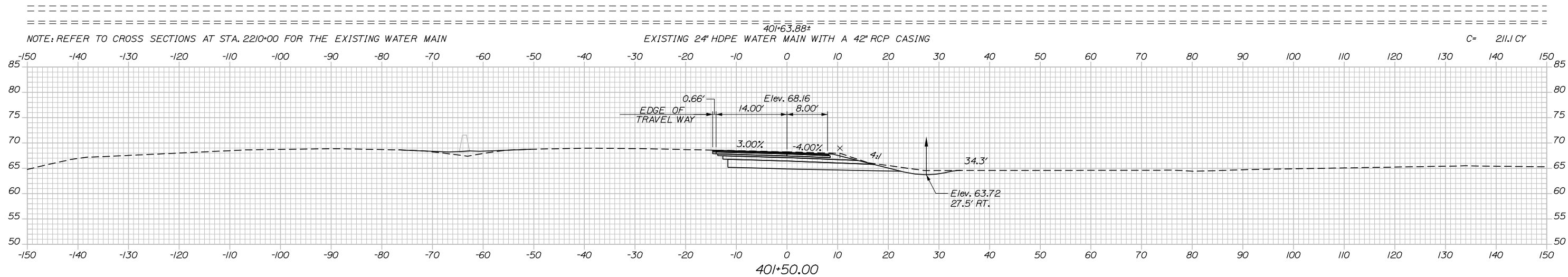
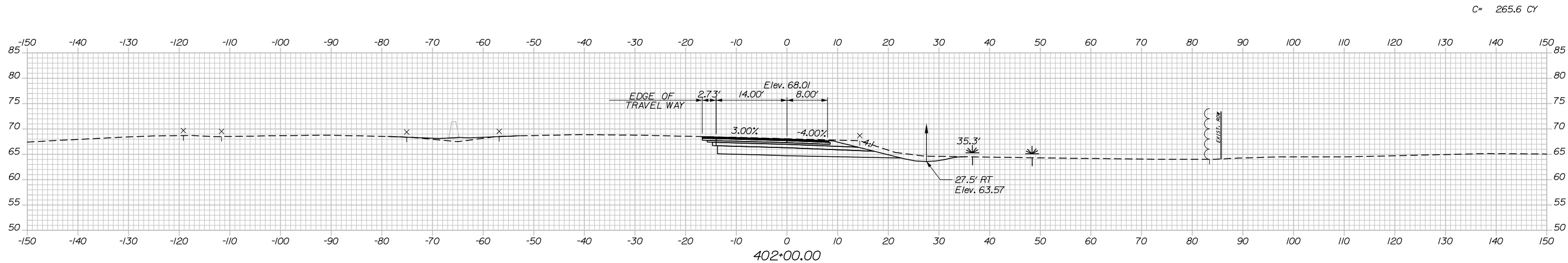
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 400+00 TO STA. 400+50

SHEET NUMBER: XS-115
249 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MEMORIAL HIGHWAY**

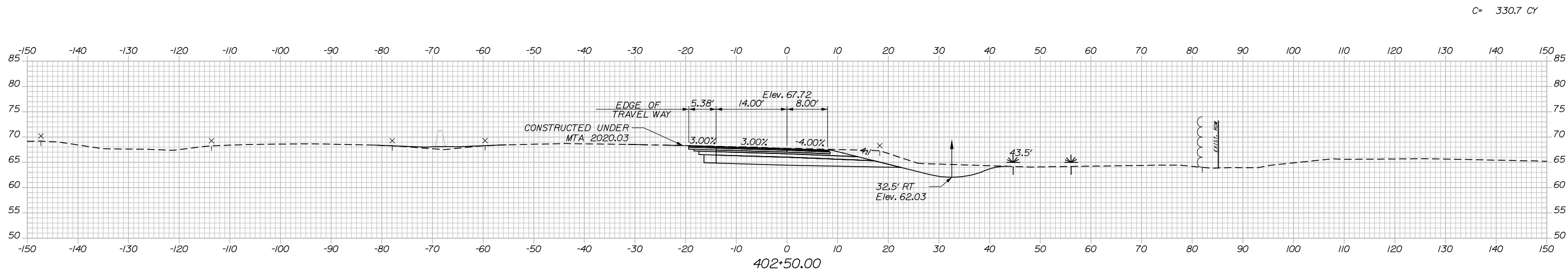
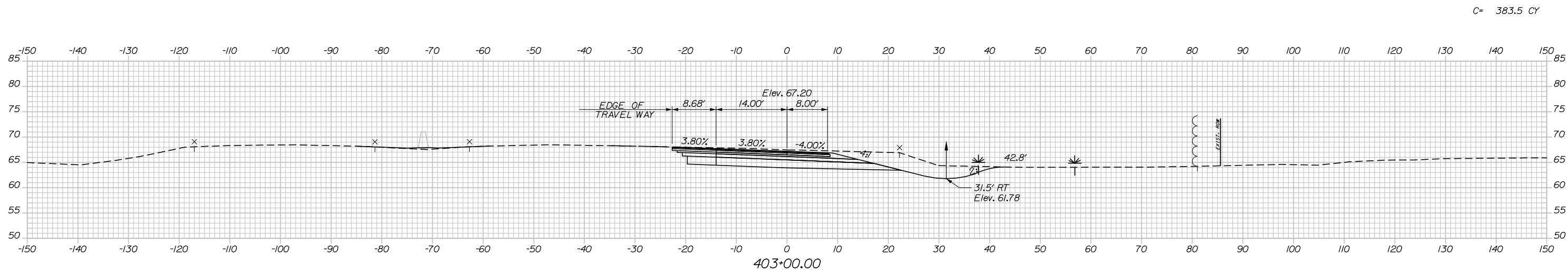
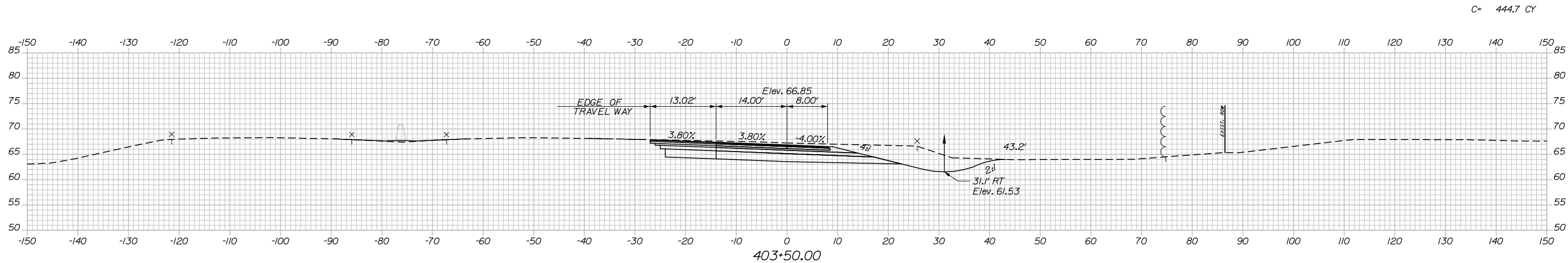
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 401+00 TO STA. 402+00

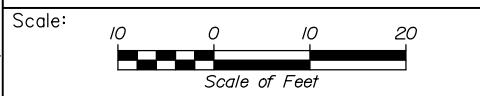
SHEET NUMBER: XS-116
250 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION**

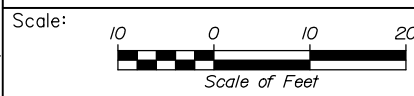
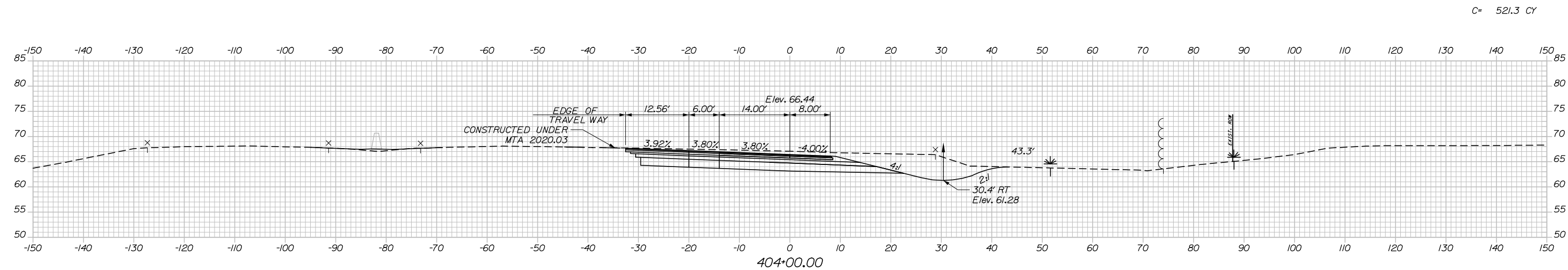
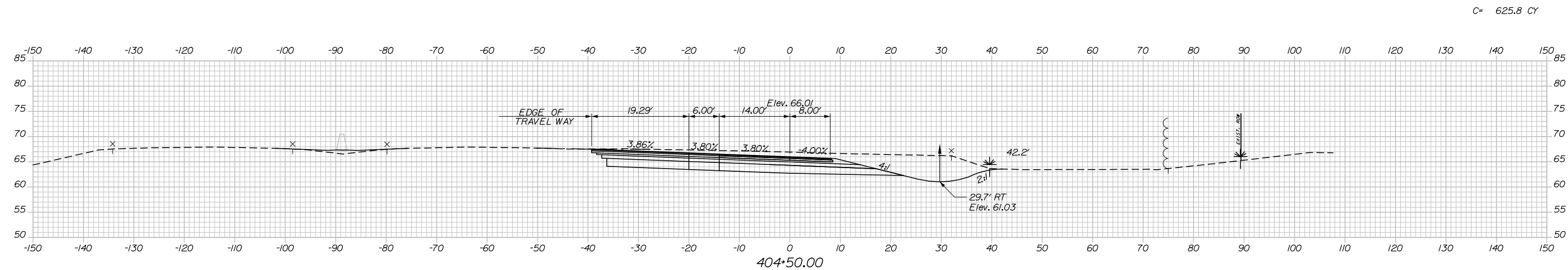
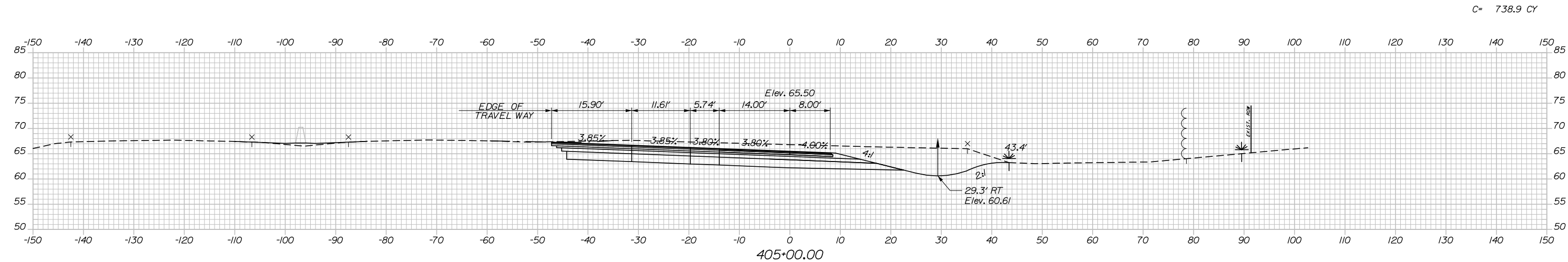
CROSS SECTIONS - RAMP D
 STA. 402+50 TO STA. 403+50

SHEET NUMBER: XS-117
 251 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

Filename: Xsect - Ramp D and D-1.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP D
 STA. 404+00 TO STA. 405+00

CONTRACT: 2021.07

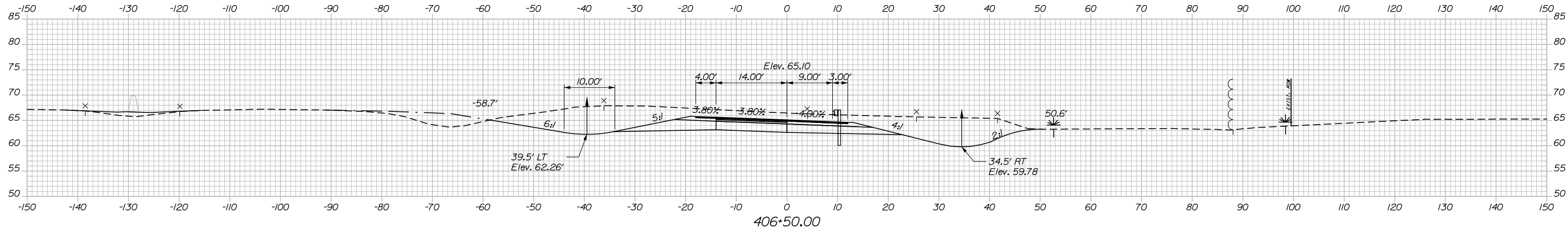
SHEET NUMBER: XS-118

252 OF 431

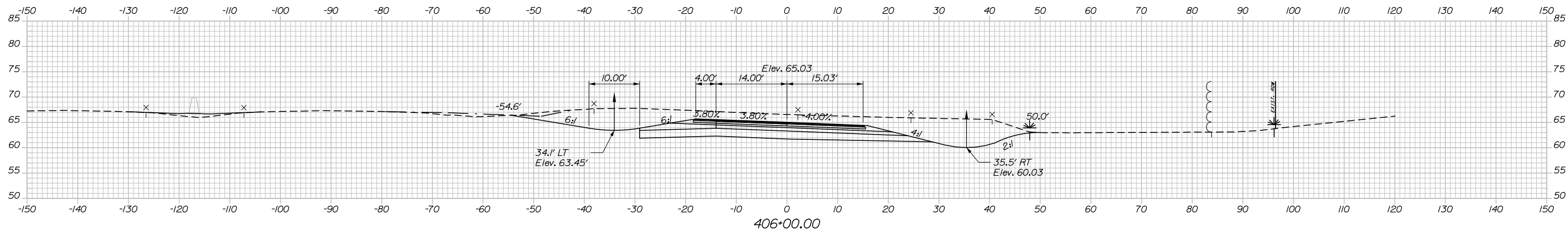
Date: 1/14/2021

Filename: Xsect - Ramp D and D-1.dgn

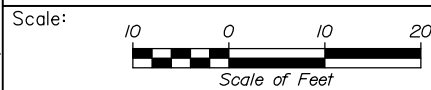
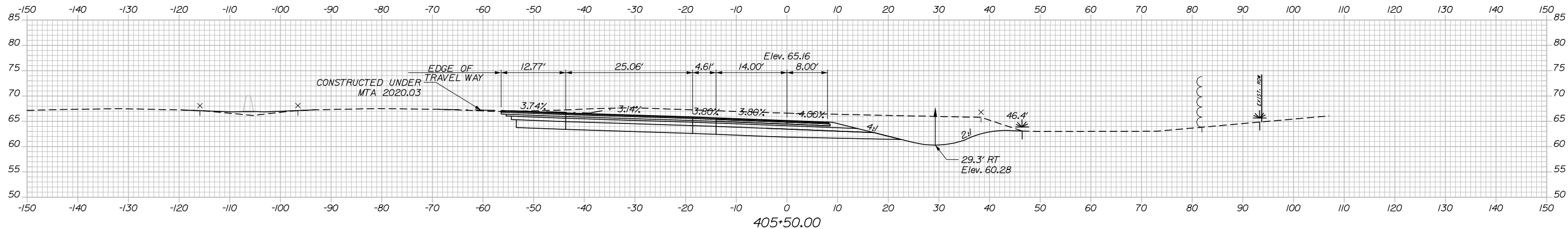
C= 805.5 CY



C= 790.8 CY



C= 793.5 CY



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 405+50 TO STA. 406+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

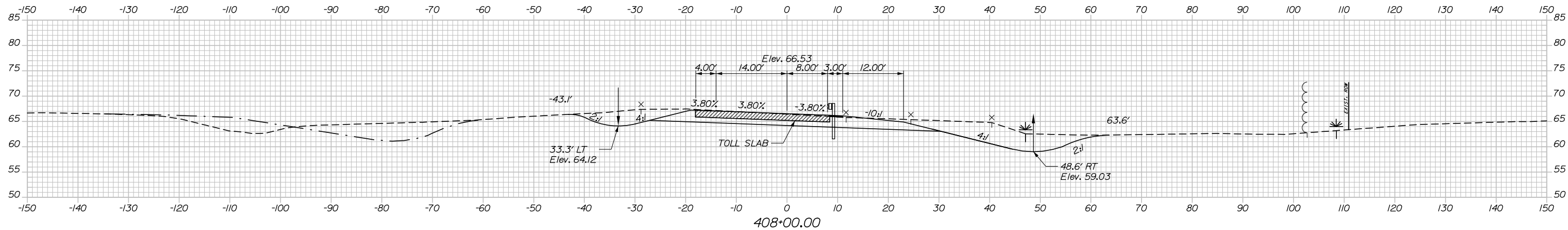
CONTRACT: 2021.07

SHEET NUMBER: XS-119

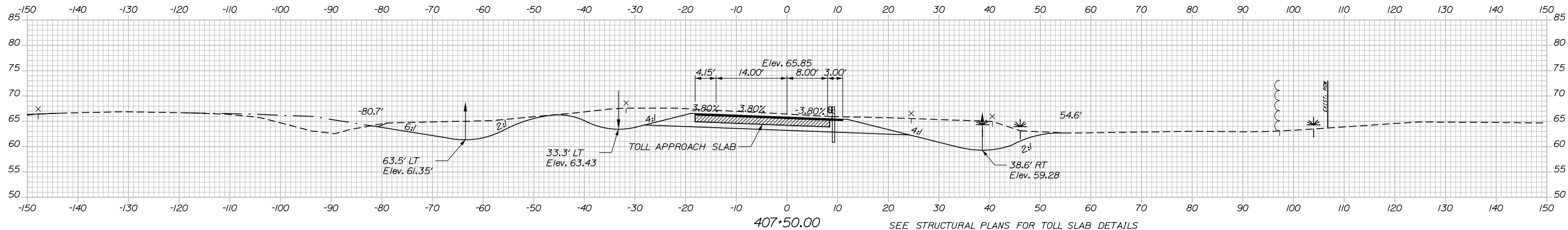
253 OF 431

Date: 1/14/2021

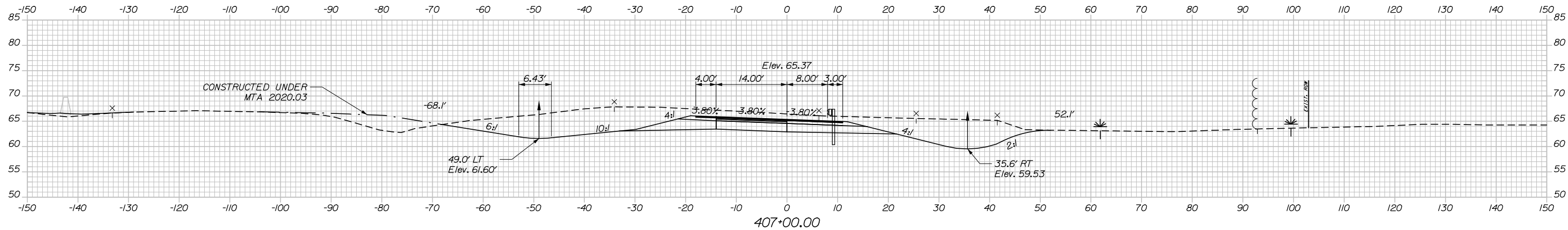
C= 261.8 CY
M= 45.8 CY
SUR. EXC.= 96.6 CY



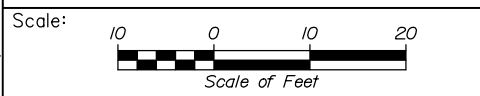
C= 457.0 CY
M= 34.7 CY



C= 724.5 CY
M= 12.5 CY



Filename: Xsect - Ramp D and D-1.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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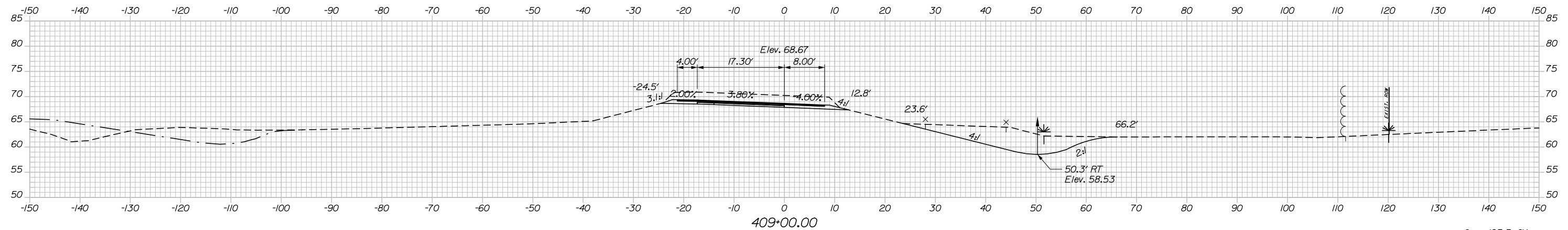
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 407+00 TO STA. 408+00**

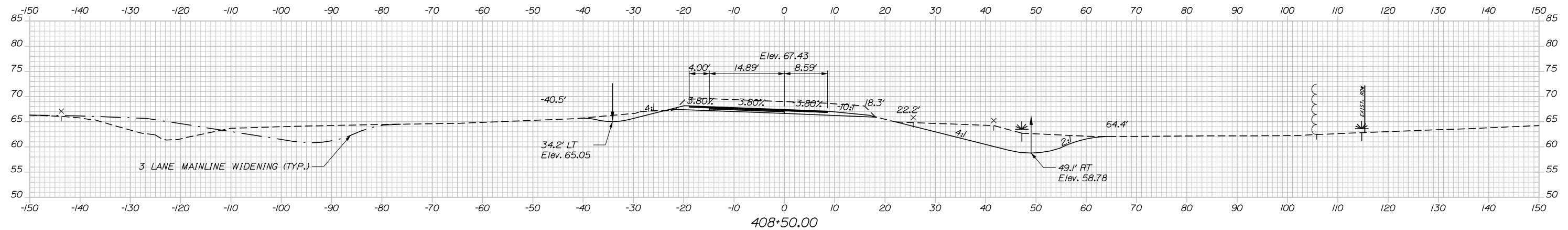
SHEET NUMBER: XS-120
CONTRACT: 2021.07
254 OF 431

Date: 1/14/2021

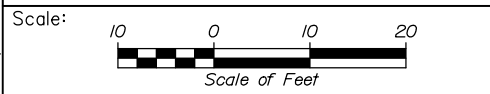
C= 180.0 CY
M= 44.4 CY
SUR. EXC.= 211.2 CY



C= 195.5 CY
M= 44.4 CY
SUR. EXC.= 153.4 CY



Filename: Xsect - Ramp D and D-1.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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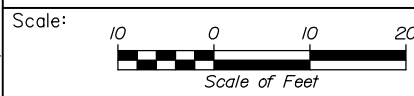
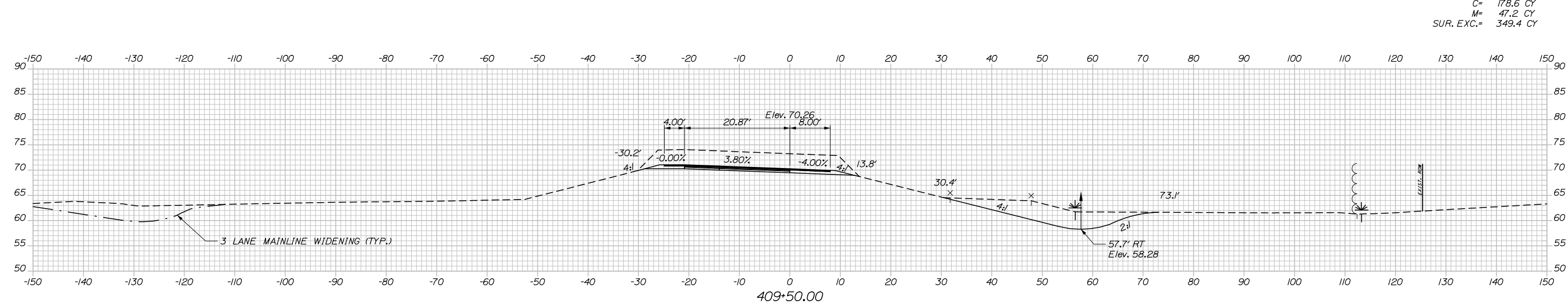
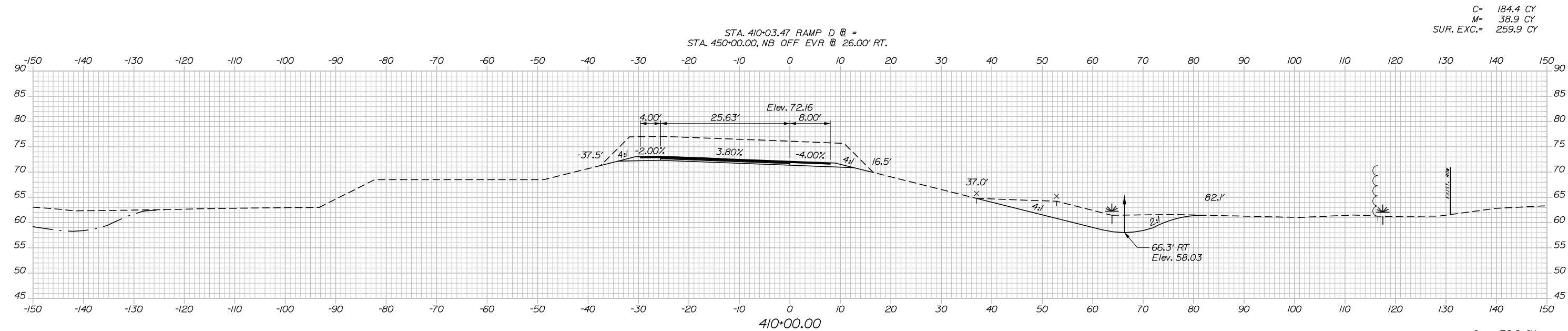
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 408+50 TO STA. 409+00**

SHEET NUMBER: XS-121
CONTRACT: 2021.07
255 OF 431

Date: 1/14/2021

Filename: Xsect - Ramp D and D-1.dgn



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 409+50 TO STA. 410+00**

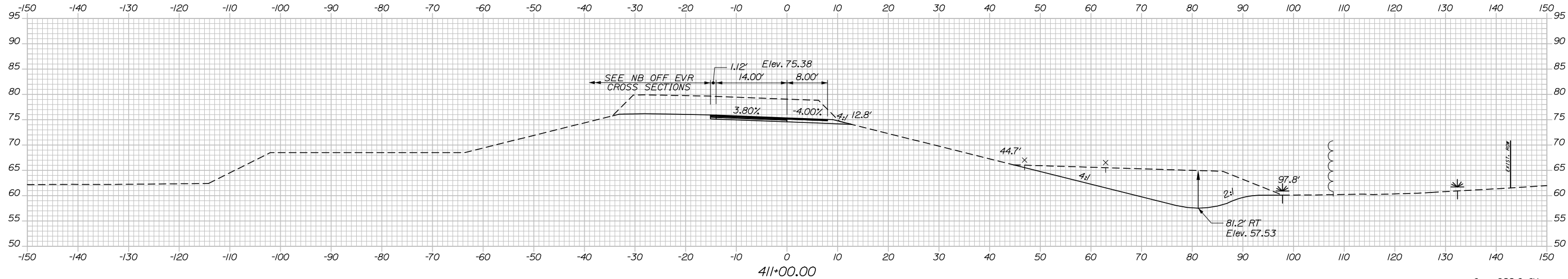
SHEET NUMBER: XS-122
256 OF 431

CONTRACT: 2021.07

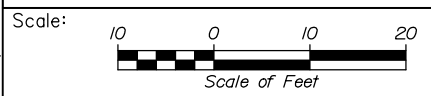
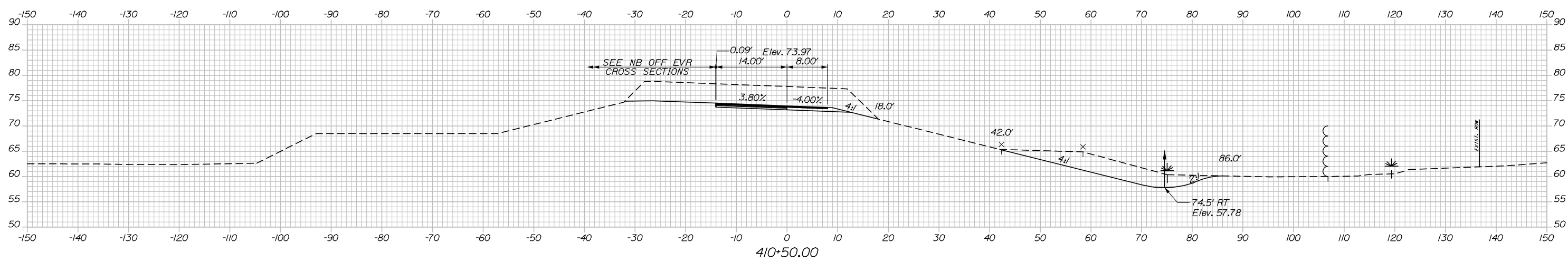
Date: 1/14/2021

Filename: Xsect - Ramp D and D-1.dgn

C= 404.5 CY
SUR. EXC.= 206.2 CY



C= 288.6 CY
M= 15.3 CY
SUR. EXC.= 222.9 CY



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 410+50 TO STA. 411+00**

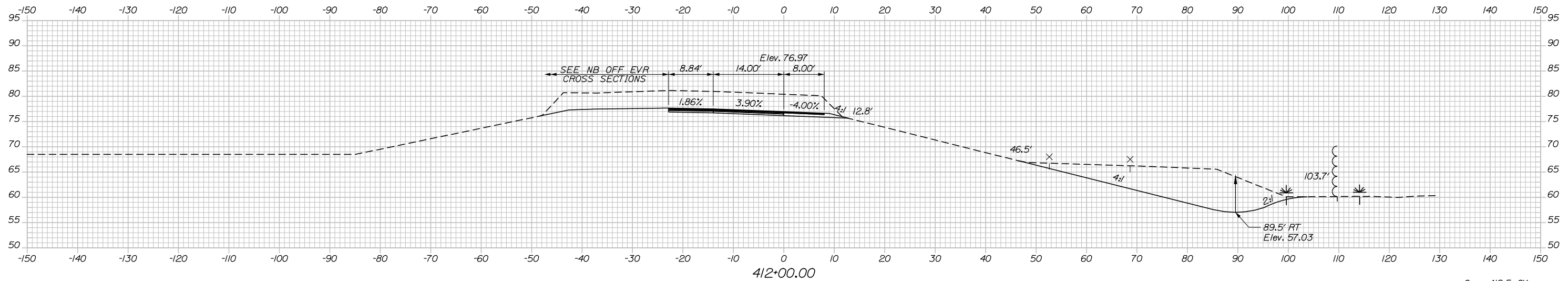
CONTRACT: 2021.07

SHEET NUMBER: XS-123

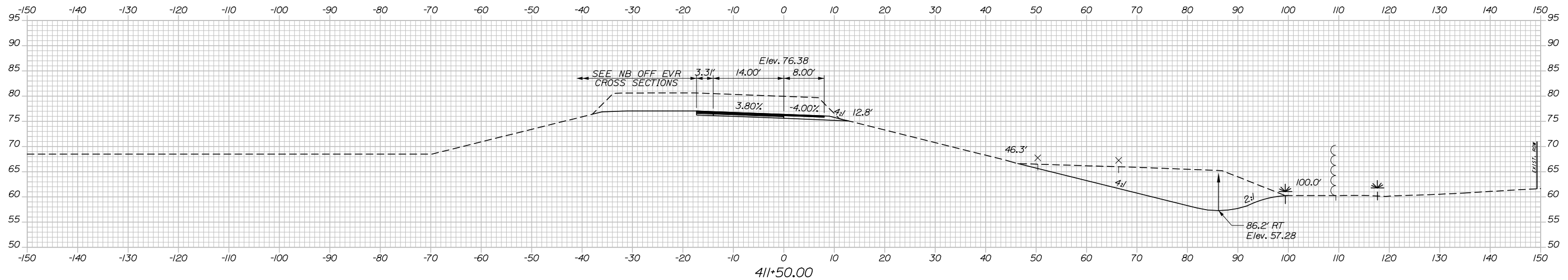
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Date: 1/14/2021

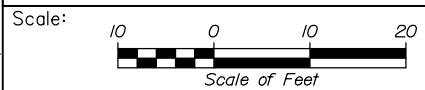
C= 416.8 CY
M= 13.9 CY
SUR. EXC.= 242.3 CY



C= 418.5 CY
M= 5.6 CY
SUR. EXC.= 235.1 CY



Filename: Xsect - Ramp D and D-1.dgn



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 411+50 TO STA. 412+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
CDH	CDH	09\20	JRH
Drawn	By	Date	In Charge of
CDH	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

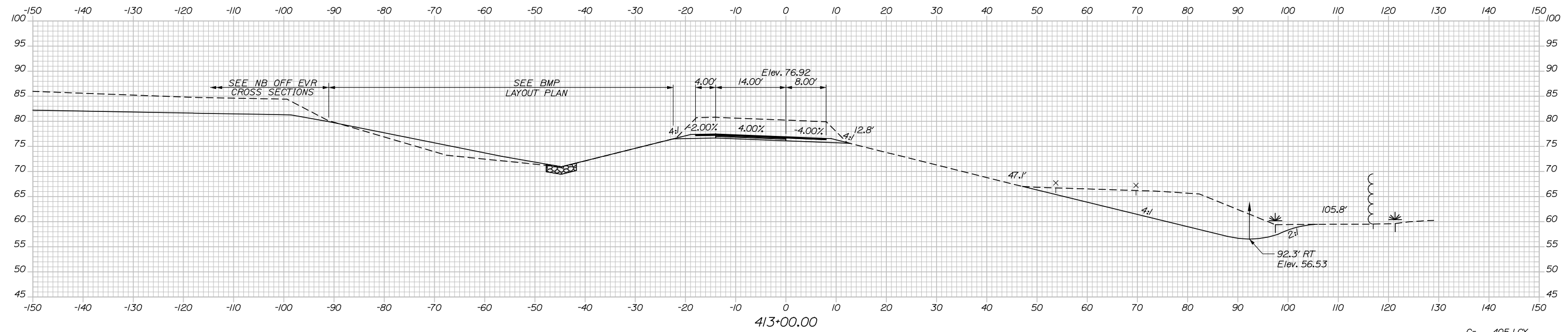
CONTRACT: 2021.07

SHEET NUMBER: XS-124

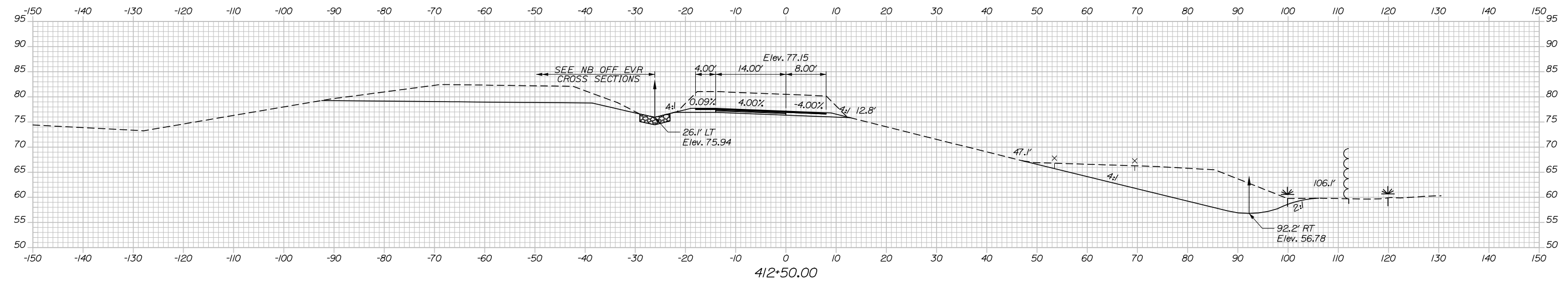
258 OF 431

Date: 1/14/2021

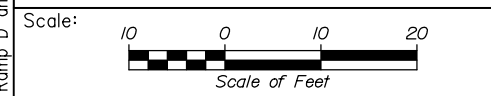
C= 386.5 CY
M= 16.7 CY
SUR. EXC.= 230.0 CY



C= 405.1 CY
M= 19.4 CY
SUR. EXC.= 229.3 CY



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

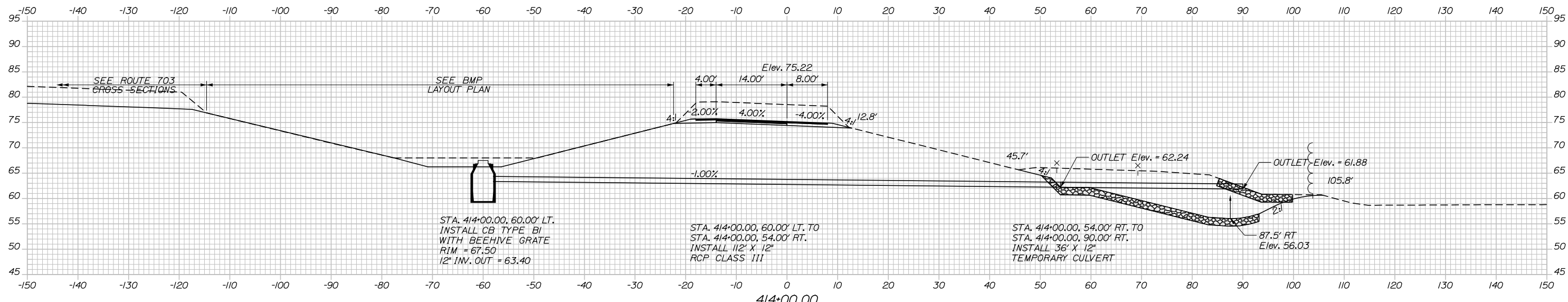
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 412+50 TO STA. 413+00

SHEET NUMBER: XS-125
259 OF 431

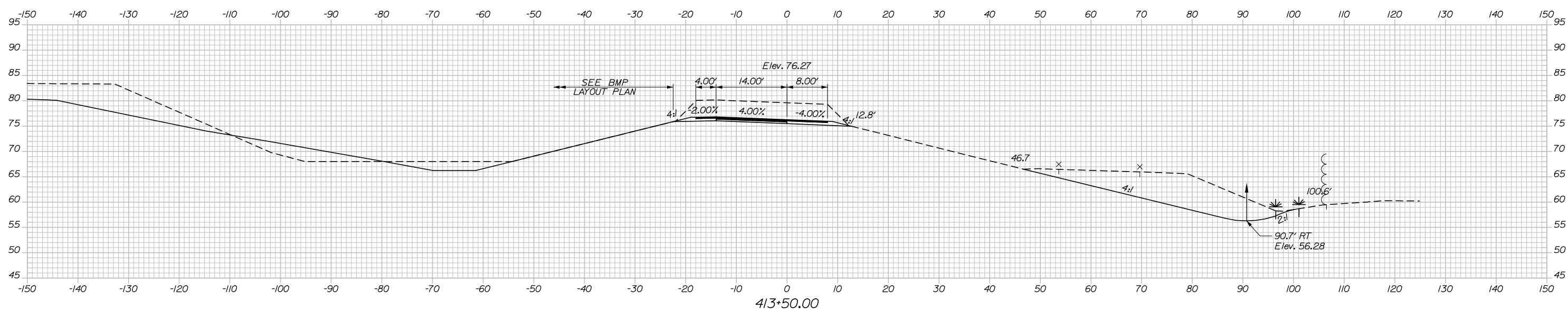
CONTRACT: 2021.07

Date: 1/14/2021

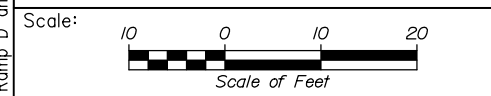
C= 365.5 CY
 F= 1.0 CY
 SUR. EXC.= 229.6 CY



C= 408.1 CY
 M= 5.6 CY
 SUR. EXC.= 229.9 CY



Filename: Xsect - Ramp D and D-1.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

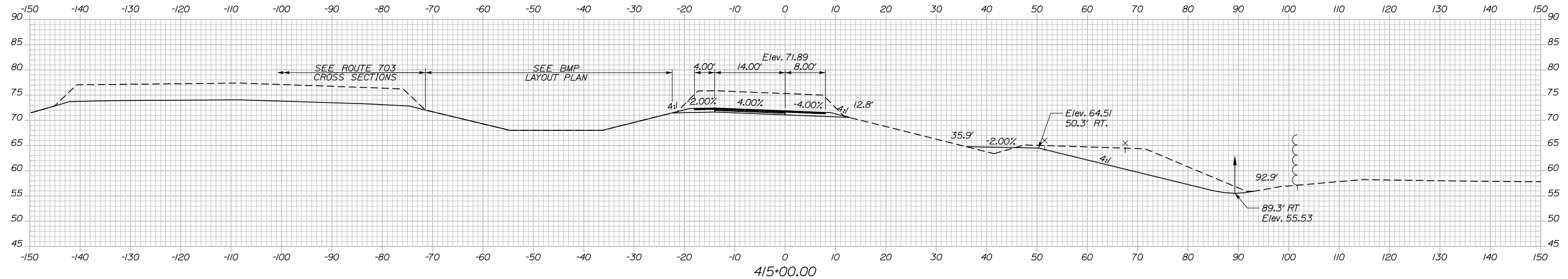
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP D
 STA. 413+50 TO STA. 414+00

SHEET NUMBER: XS-126
 260 OF 431

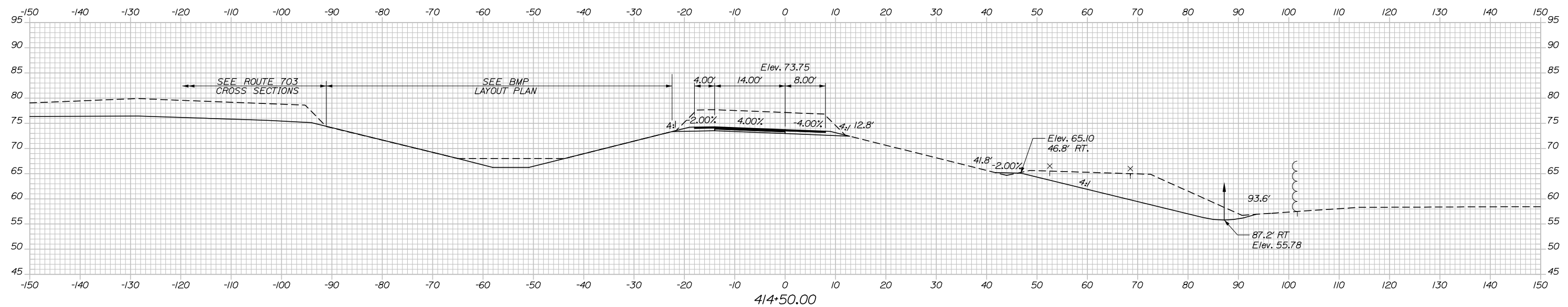
CONTRACT: 2021.07

Date: 1/14/2021

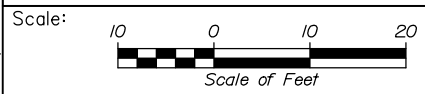
C= 194.5 CY
 F= 23.9 CY
 SUR. EXC.= 228.7 CY



C= 259.6 CY
 F= 6.8 CY
 SUR. EXC.= 229.3 CY



Filename: Xsect - Ramp D and D-1.dgn



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP D
 STA. 414+50 TO STA. 415+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

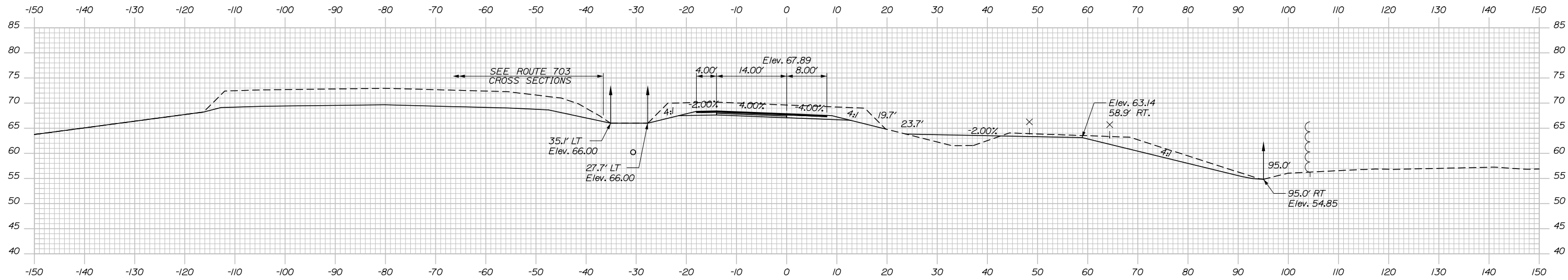
CONTRACT: 2021.07

SHEET NUMBER: XS-127

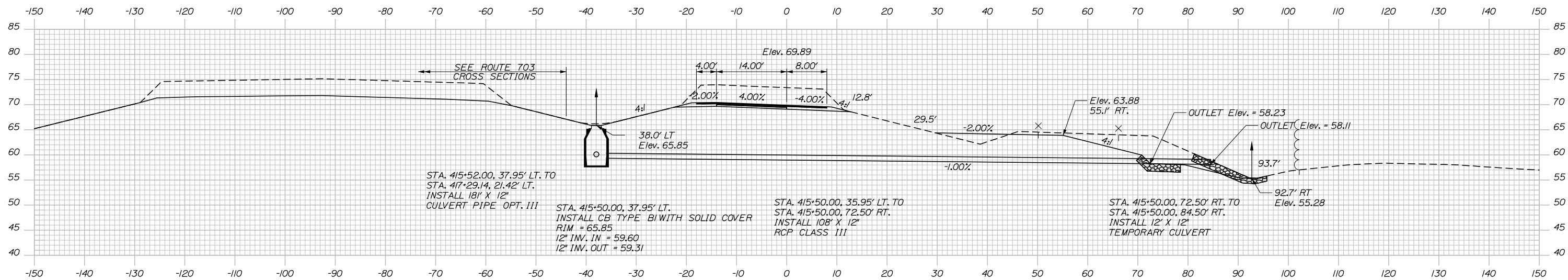
261 OF 431

Date: 1/14/2021

C= 69.0 CY
 F= 39.1 CY
 SUR. EXC.= 204.5 CY



C= 133.3 CY
 F= 40.3 CY
 SUR. EXC.= 219.7 CY

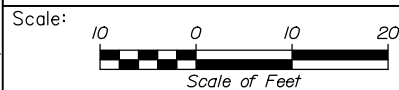


STA. 415+52.00, 37.95' LT. TO
 STA. 417+29.14, 21.42' LT.
 INSTALL 18" X 12"
 CULVERT PIPE OPT. III

STA. 415+50.00, 37.95' LT.
 INSTALL CB TYPE BIWITH SOLID COVER
 RIM = 65.85
 12" INV. IN = 59.60
 12" INV. OUT = 59.31

STA. 415+50.00, 35.95' LT. TO
 STA. 415+50.00, 72.50' RT.
 INSTALL 108" X 12"
 RCP CLASS III

STA. 415+50.00, 72.50' RT. TO
 STA. 415+50.00, 84.50' RT.
 INSTALL 12" X 12"
 TEMPORARY CULVERT



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP D
 STA. 415+50 TO STA. 416+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

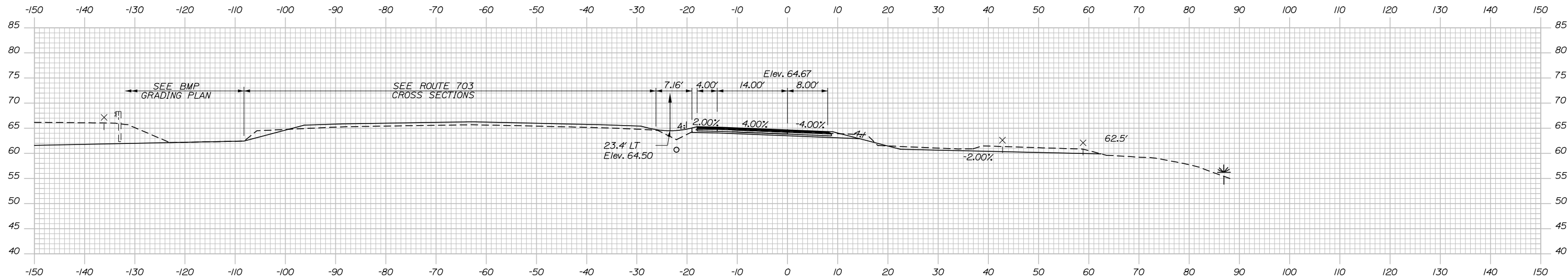
SHEET NUMBER: XS-128

262 OF 431

Filename: Xsect - Ramp D and D-1.dgn

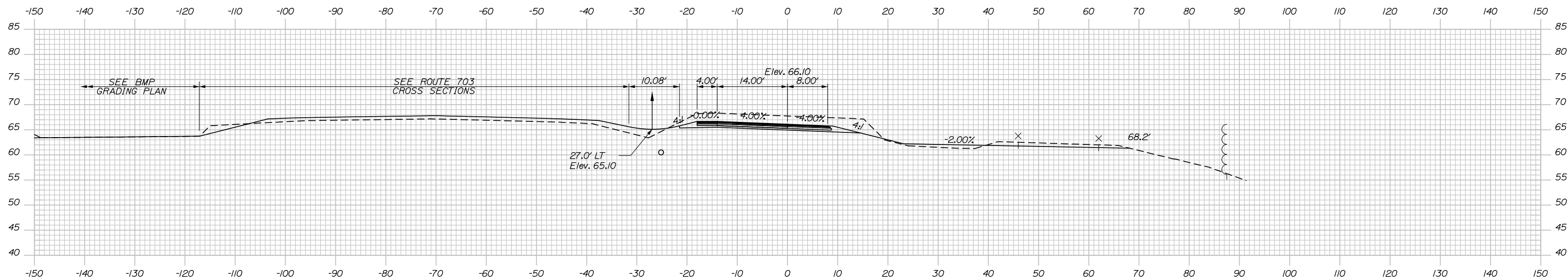
Date: 1/14/2021

C= 68.5 CY
 F= 6.7 CY
 SUR. EXC.= 53.1 CY

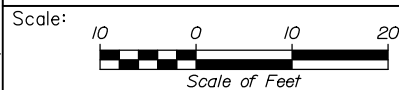


417+00.00

C= 42.9 CY
 F= 23.5 CY
 SUR. EXC.= 125.6 CY



416+50.00



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP D
 STA. 416+50 TO STA. 417+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

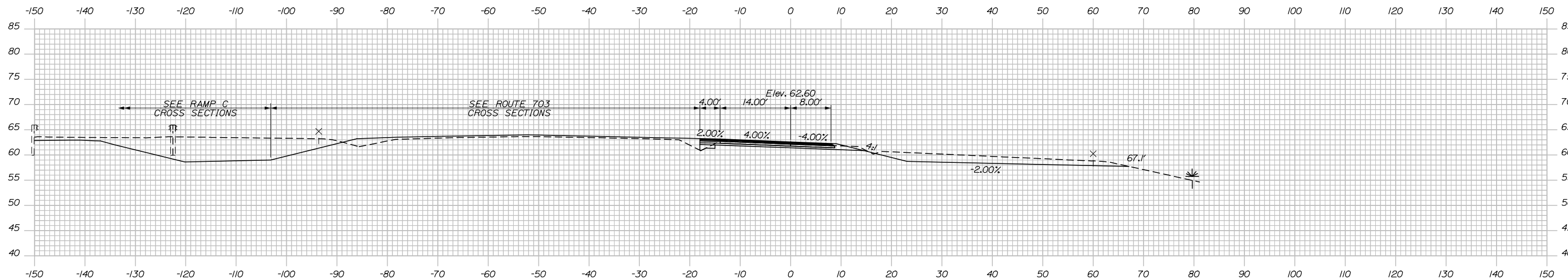
CONTRACT: 2021.07

SHEET NUMBER: XS-129
 263 OF 431

Filename: Xsect - Ramp D and D-1.dgn

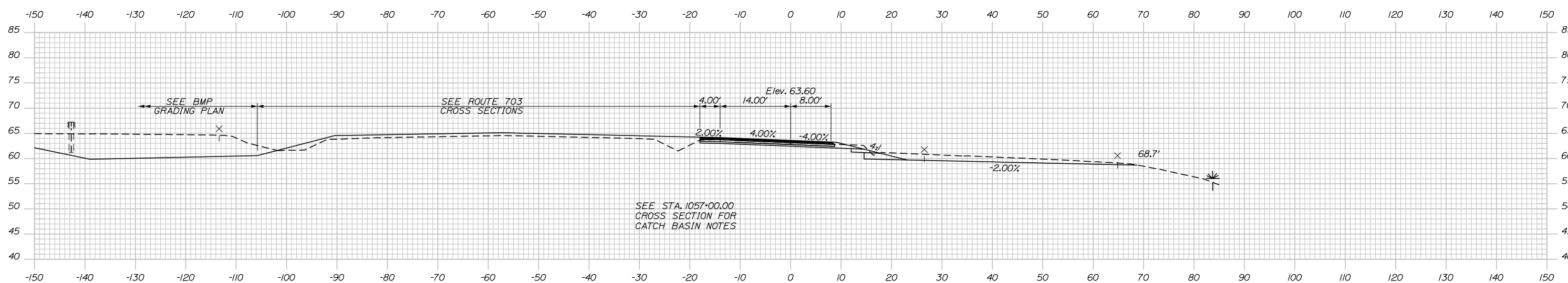
Date: 1/14/2021

C= 177.8 CY
SUR. EXC.= 50.4 CY



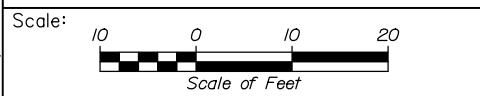
418+00.00

C= 97.6 CY
SUR. EXC.= 48.6 CY



417+50.00

SEE STA. 1057+00.00
CROSS SECTION FOR
CATCH BASIN NOTES



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 417+50 TO STA. 418+00

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

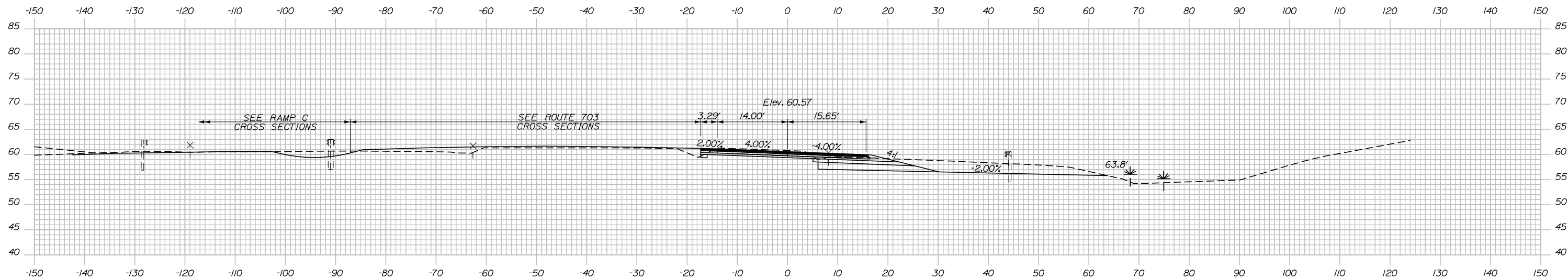
SHEET NUMBER: XS-130

264 OF 431

Filename: Xsect - Ramp D and D-1.dgn

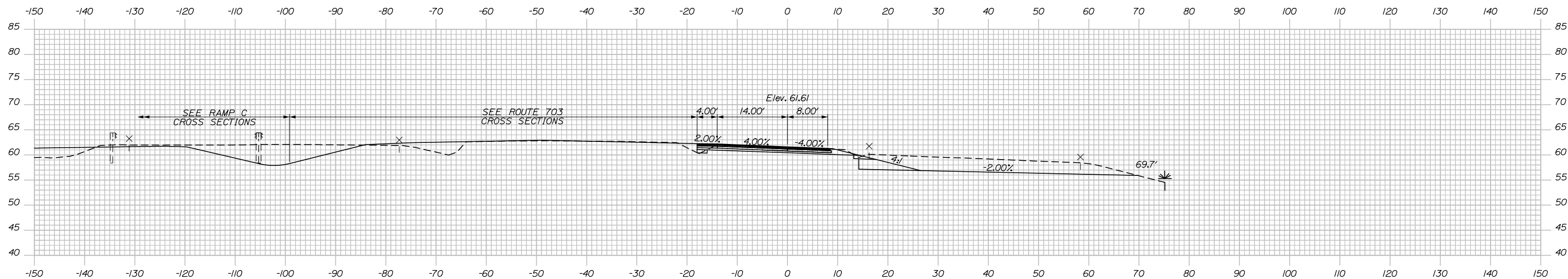
Date: 1/14/2021

C= 311.3 CY
SUR. EXC.= 26.9 CY

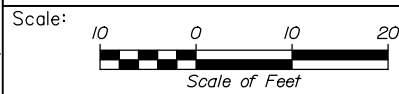


419+00.00

C= 227.4 CY
SUR. EXC.= 55.2 CY



418+50.00



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THE GOLD STAR
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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RAMP D
STA. 418+50 TO STA. 419+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

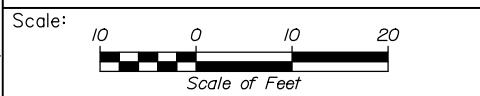
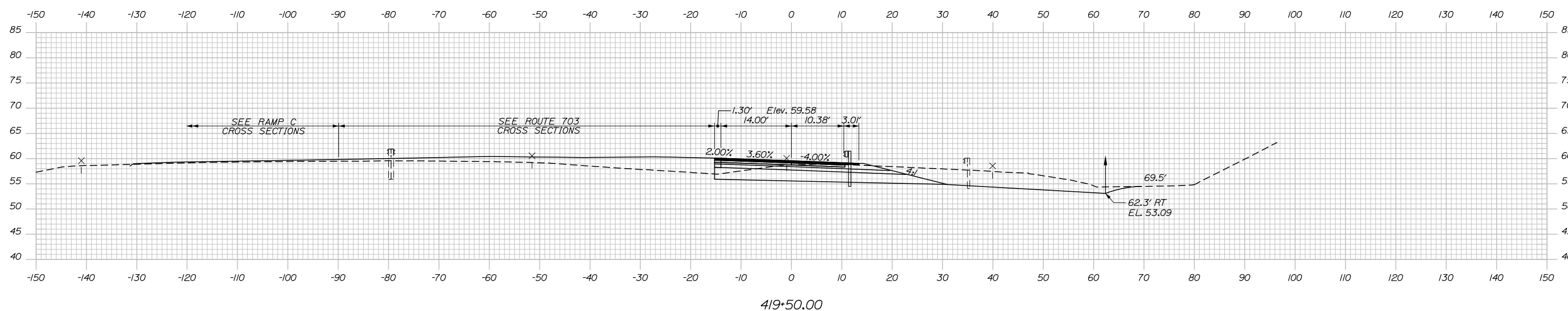
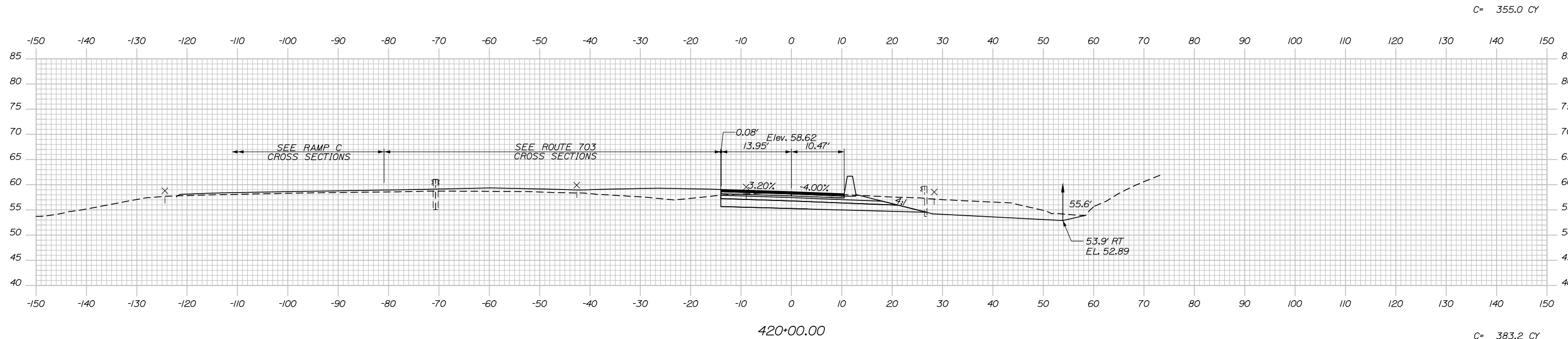
SHEET NUMBER: XS-131

265 OF 431

Filename: Xsect - Ramp D and D-1.dgn

Date: 1/14/2021

Filename: Xsect - Ramp D and D-1.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP D
STA. 419+50 TO STA. 420+00

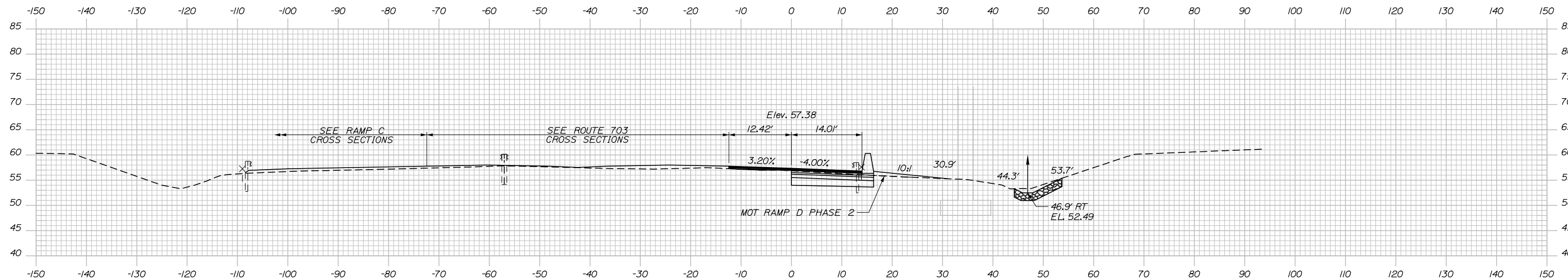
SHEET NUMBER: XS-132
266 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

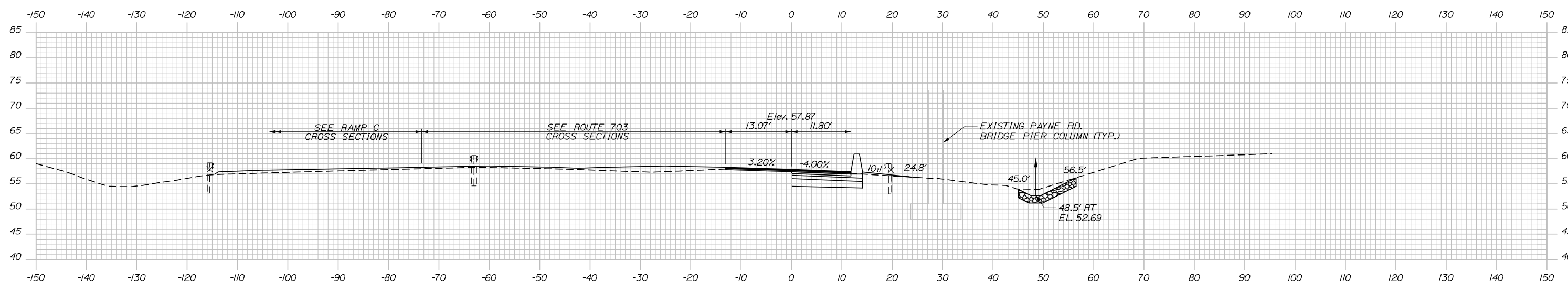
Filename: Xsect - Ramp D and D-1.dgn

C= 84.5 CY
SUR. EXC.= 5.7 CY

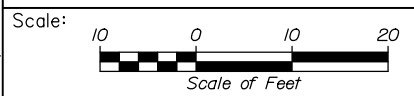


421+00.00

C= 94.9 CY
F= 1.8 CY
SUR. EXC.= 5.7 CY



420+50.00



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

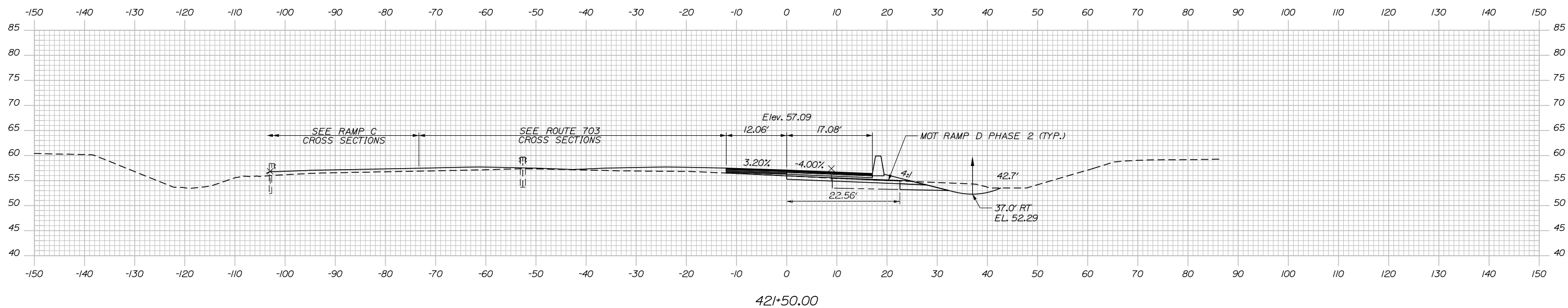
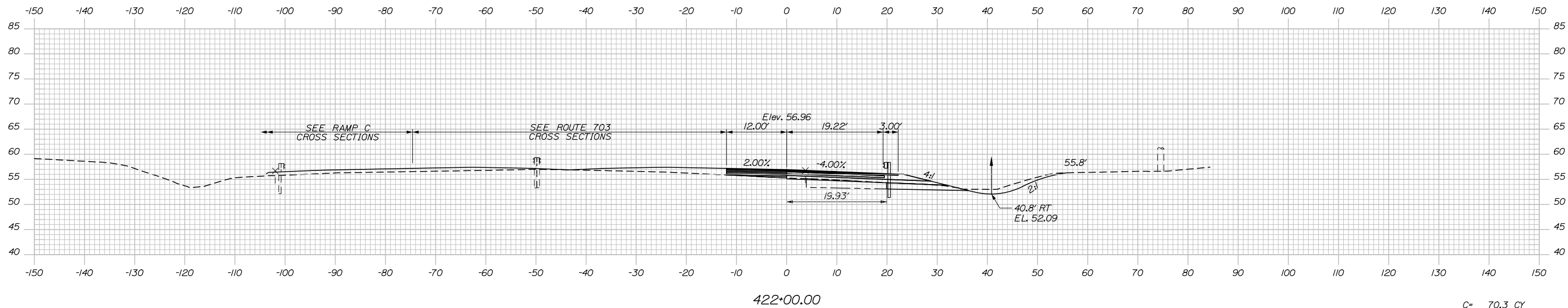
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP D
STA. 420+50 TO STA. 421+00**

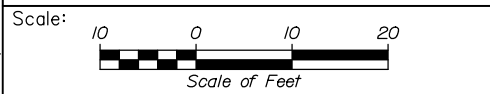
SHEET NUMBER: XS-133
CONTRACT: 2021.07
267 OF 431

Date: 1/14/2021

C= 52.1 CY
F= 3.4 CY



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RAMP D
STA. 421+50 TO STA. 422+00**

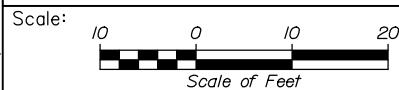
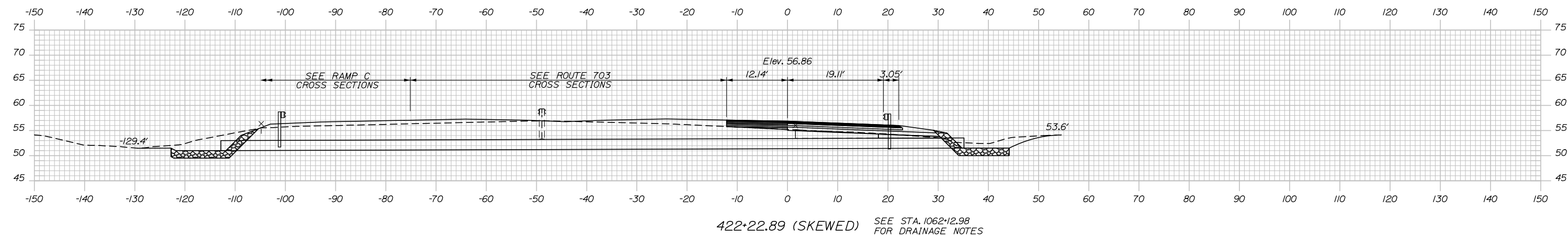
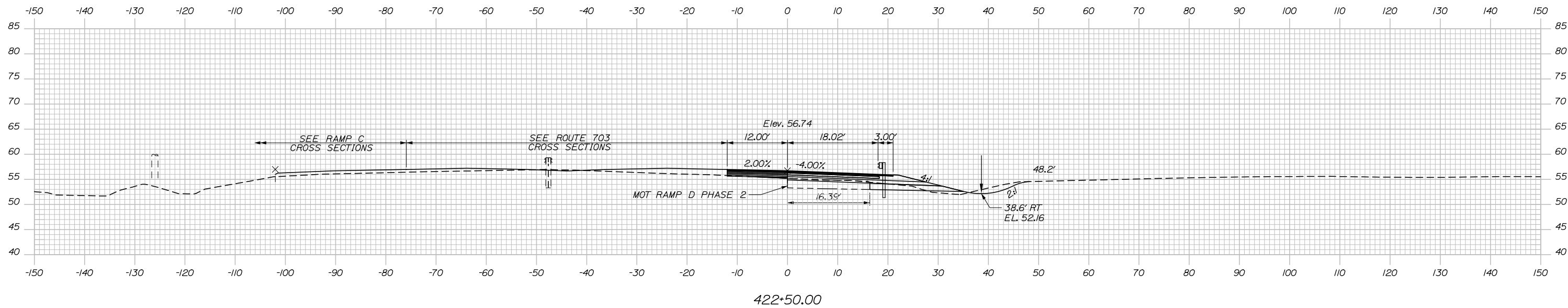
SHEET NUMBER: XS-134
268 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

STA. 422+97.72 RAMP D @ =
 STA. 8062+82.60, ROUTE 703 EASTBOUND @ 24.00' RT. =
 STA. 1062+81.94 ROUTE 703 @ 44.75' RT.

C= 43.2 CY
 F= 6.5 CY



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RAMP D
 STA. 422+23 TO STA. 422+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

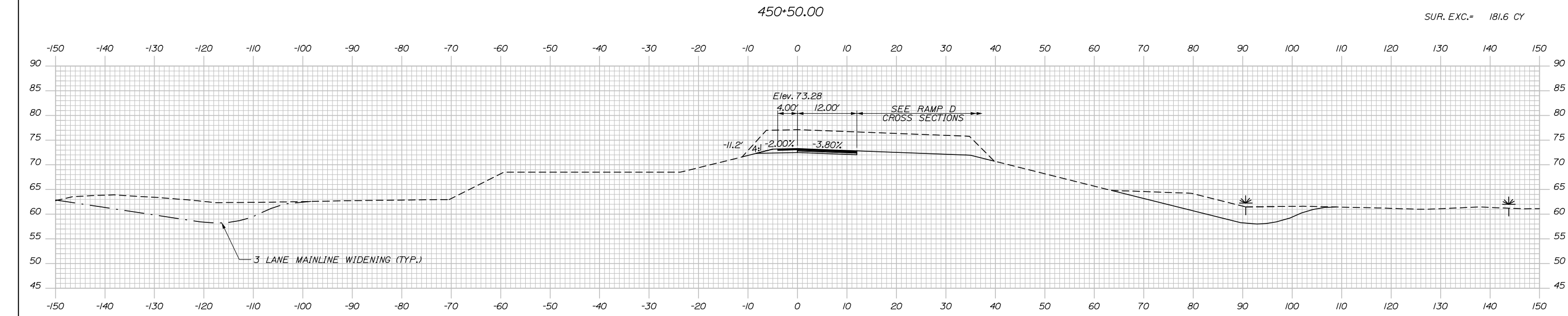
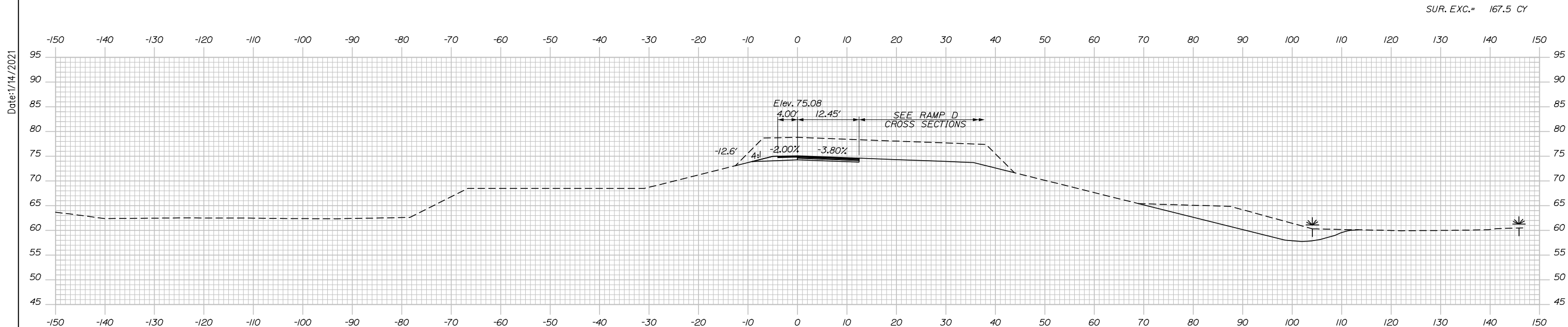
CONTRACT: 2021.07

SHEET NUMBER: XS-135

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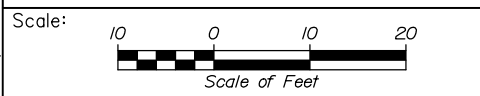
Filename: Xsect - Ramp D and D-1.dgn

Date: 1/14/2021



450+00.00
 STA. 450+00.00 NB OFF EVR R =
 STA. 410+03.47, RAMP D R 26.00' LT.

Filename: Xsect - Ramp D and D-1.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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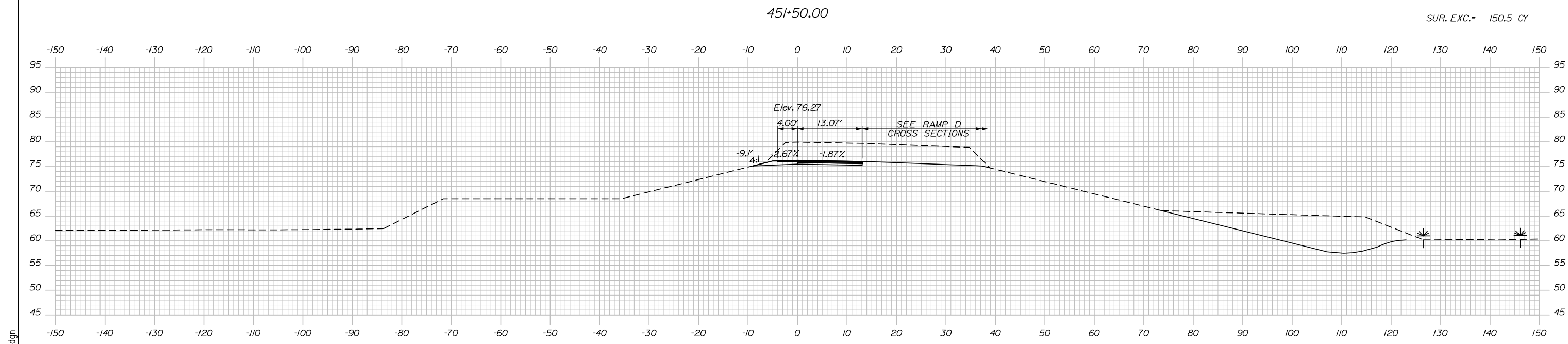
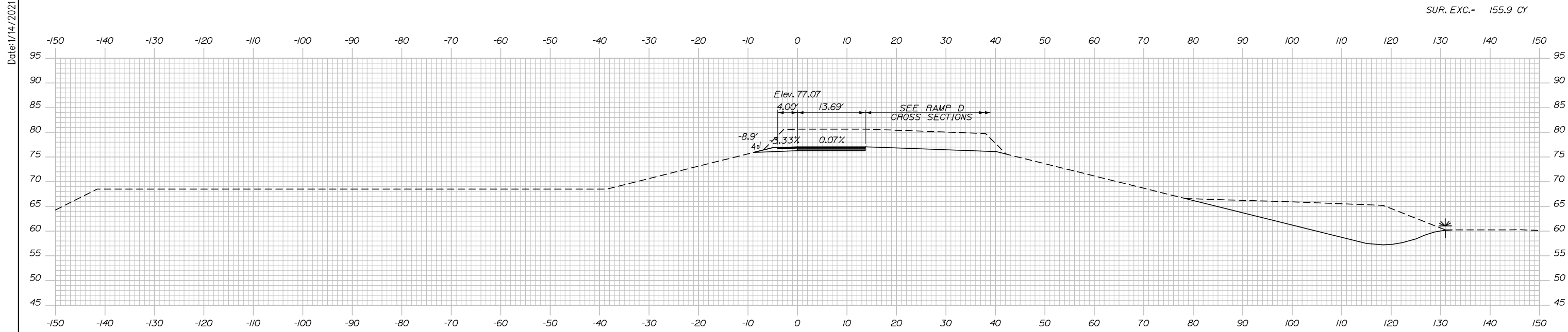
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - NB OFF EVR
 STA. 450+00 TO STA. 450+50

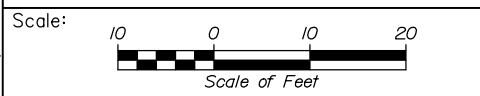
SHEET NUMBER: XS-136
 270 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Filename: Xsect - Ramp D and D-1.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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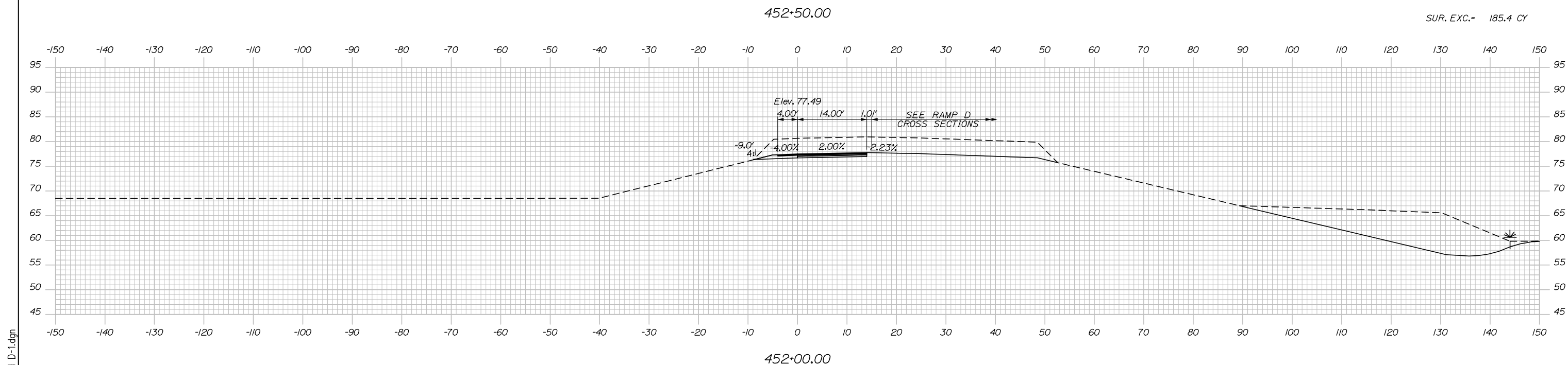
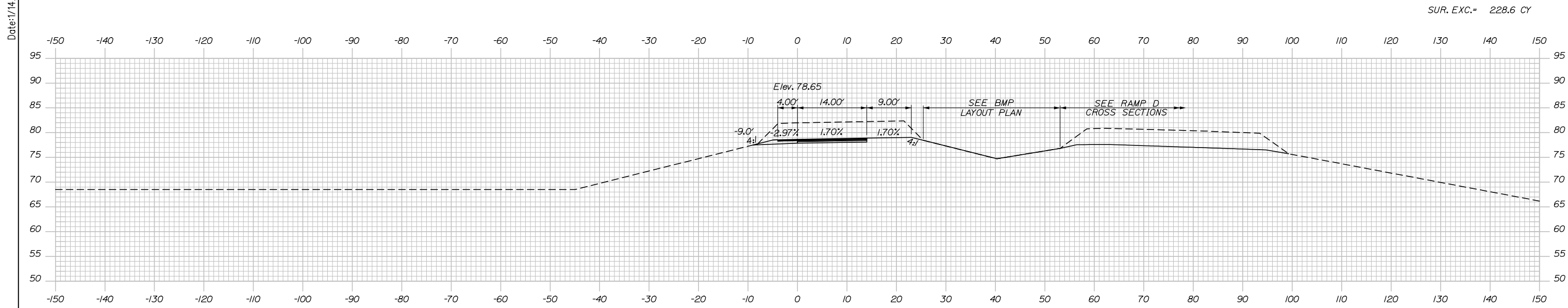
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - NB OFF EVR
 STA. 451+00 TO STA. 451+50**

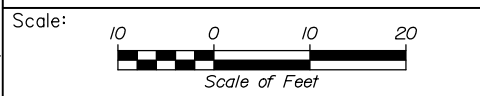
SHEET NUMBER: XS-137
 271 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

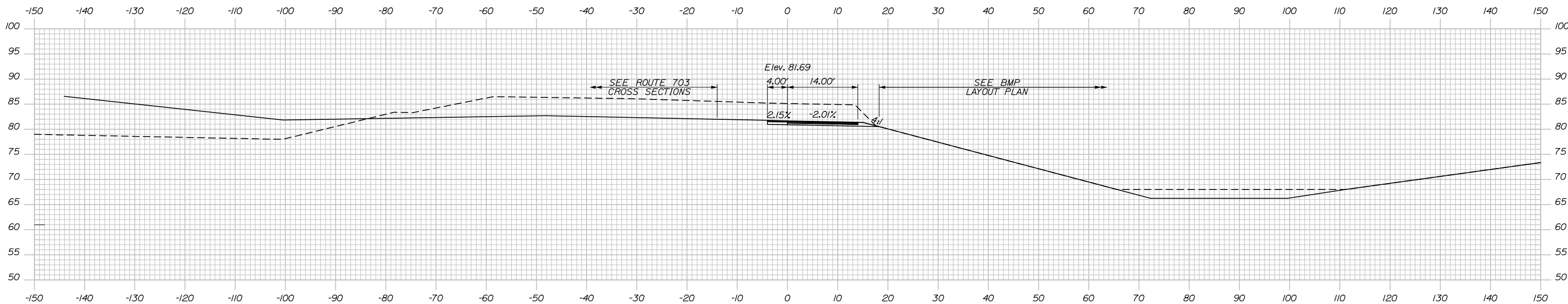
**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - NB OFF EVR
STA. 452+00 TO STA. 452+50**

SHEET NUMBER: XS-138
CONTRACT: 2021.07
272 OF 431

Date: 1/14/2021

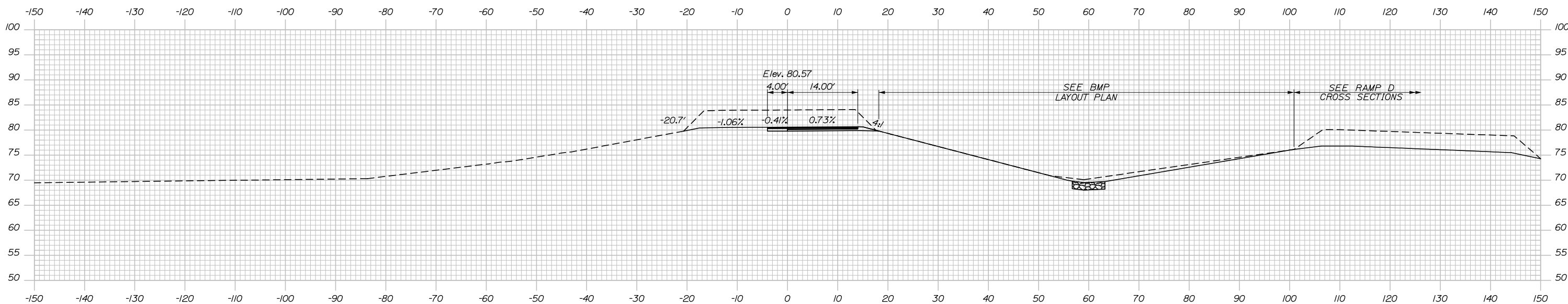
STA. 454+21.37 NB OFF EVR B =
 STA. 1052+64.78 ROUTE 703 C =
 STA. 350+00.00 NB ON EVR B

SUR. EXC.= 166.9 CY

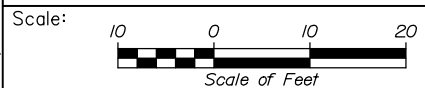


453+50.00

SUR. EXC.= 232.0 CY



453+00.00



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - NB OFF EVR
 STA. 453+00 TO STA. 453+50

SHEET NUMBER: XS-139

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	CDH	09\20	JRH
Drawn	By	Date	In Charge of
	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

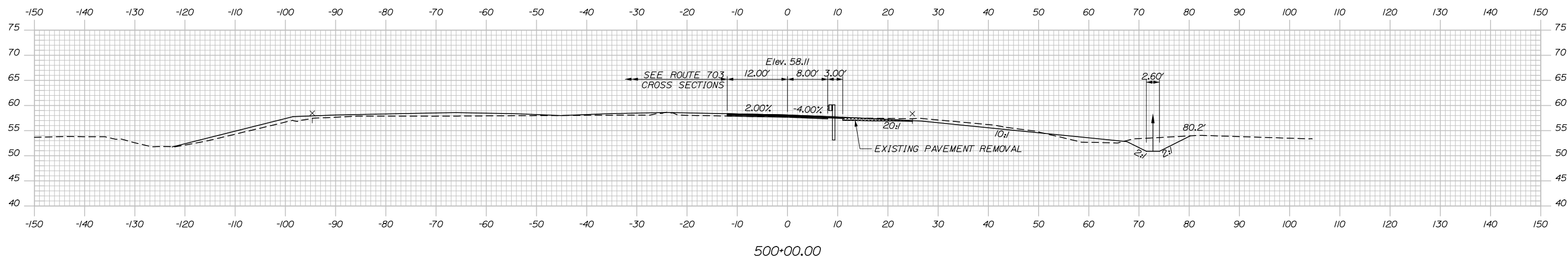
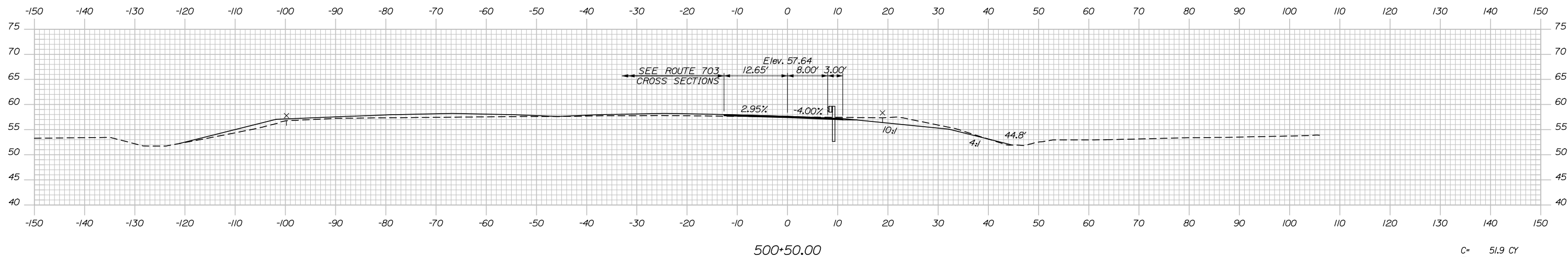
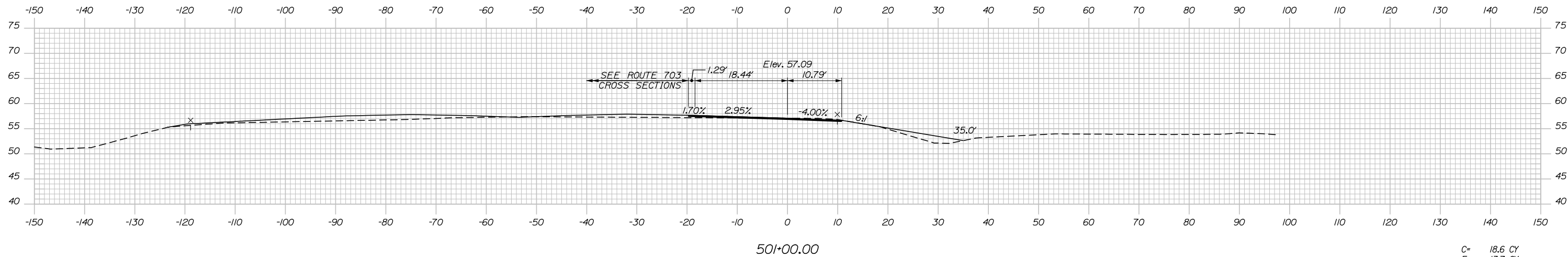
CONTRACT: 2021.07

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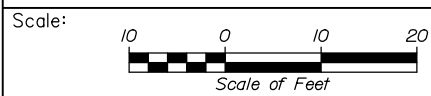
Filename: Xsect - Ramp D and D-1.dgn

C= 0.1 CY
F= 23.5 CY

Date: 1/14/2021



500+00.00
 STA. 500+00.00 ROUTE 703 EASTBOUND OFF RAMP R =
 STA. 8070+50.00 ROUTE 703 EASTBOUND R, 24.00' RT. =
 STA. 1070+50.00 ROUTE 703 C, 45.00' RT. =



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EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS - RTE 703 EB OFF RAMP
 STA. 500+00 TO STA. 501+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
CDH	CDH	09\20	JRH
Drawn	By	Date	In Charge of
CDH	CDH	09\20	RAL

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

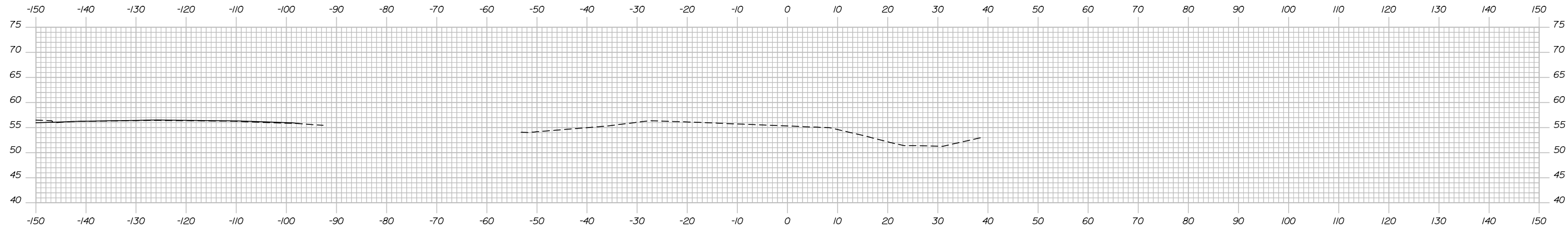
SHEET NUMBER: XS-140

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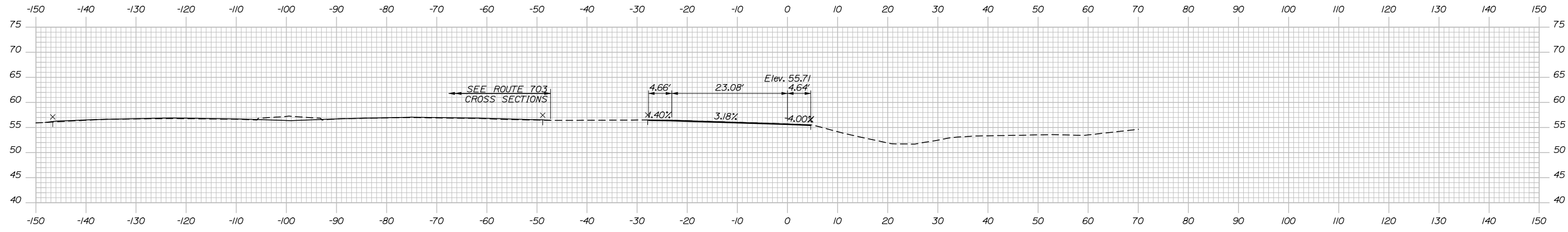
Filename: Xsect - Maine Mill Ramps.dgn

Date: 1/14/2021

Filename: Xsect - Maine Mall Ramps.dgn



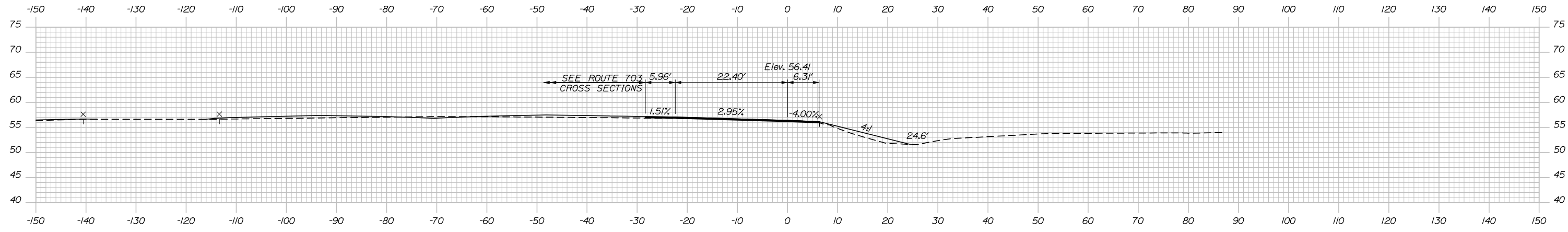
502+50.00



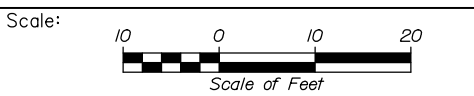
502+00.00

STA. 502+00.00
LIMIT OF WORK

F= 10.5 CY



501+50.00



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HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

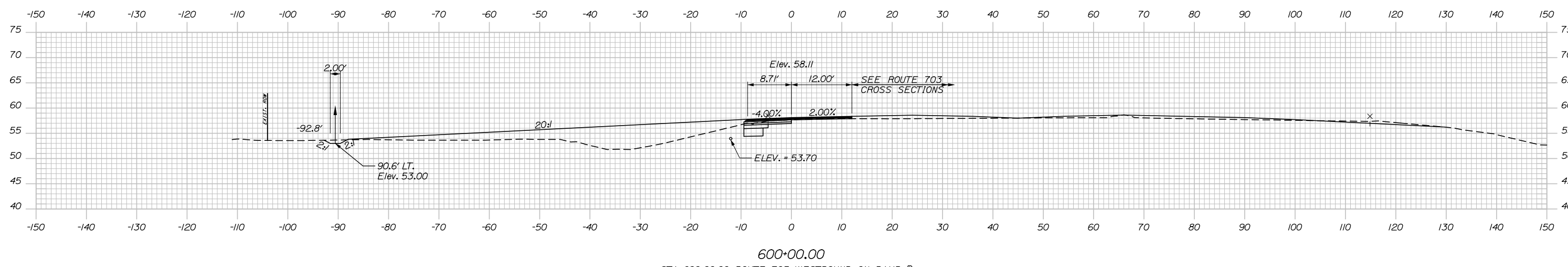
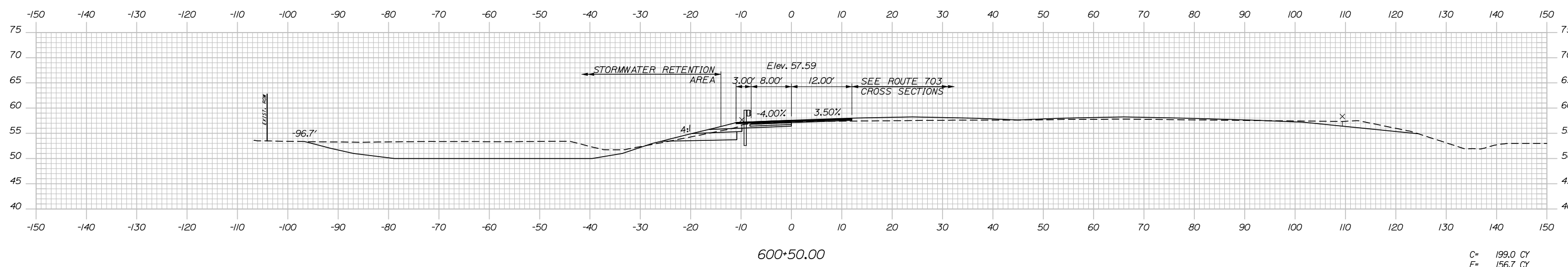
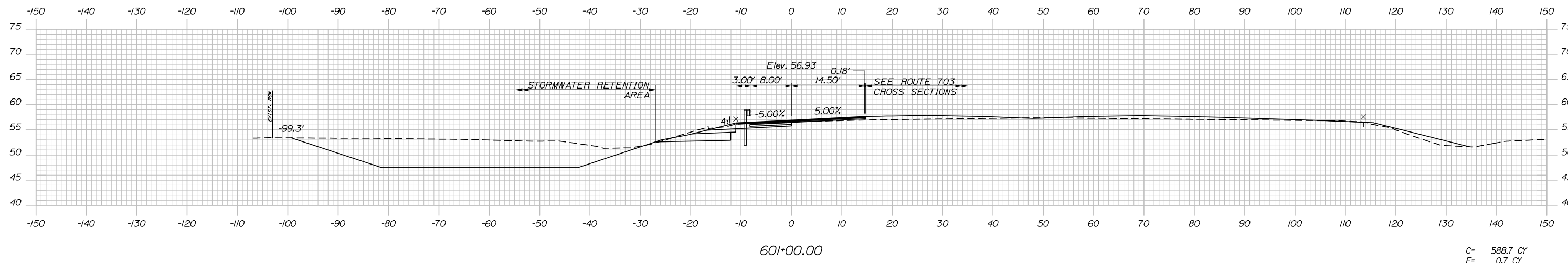
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RTE 703 EB OFF RAMP
STA. 501+50 TO STA. 502+50**

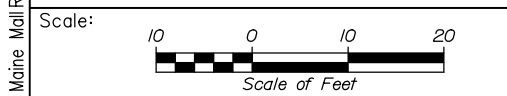
SHEET NUMBER: XS-141
CONTRACT: 2021.07
275 OF 431

C= 569.9 CY
F= 2.0 CY

Date: 1/14/2021



STA. 600+00.00 ROUTE 703 WESTBOUND ON RAMP =
STA. 9070+50.00 ROUTE 703 WESTBOUND @ 24.00' LT. =
STA. 1070+50.00 ROUTE 703 @ 45.00' LT. =



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS – RTE 703 WB ON RAMP
STA. 600+00 TO STA. 601+00

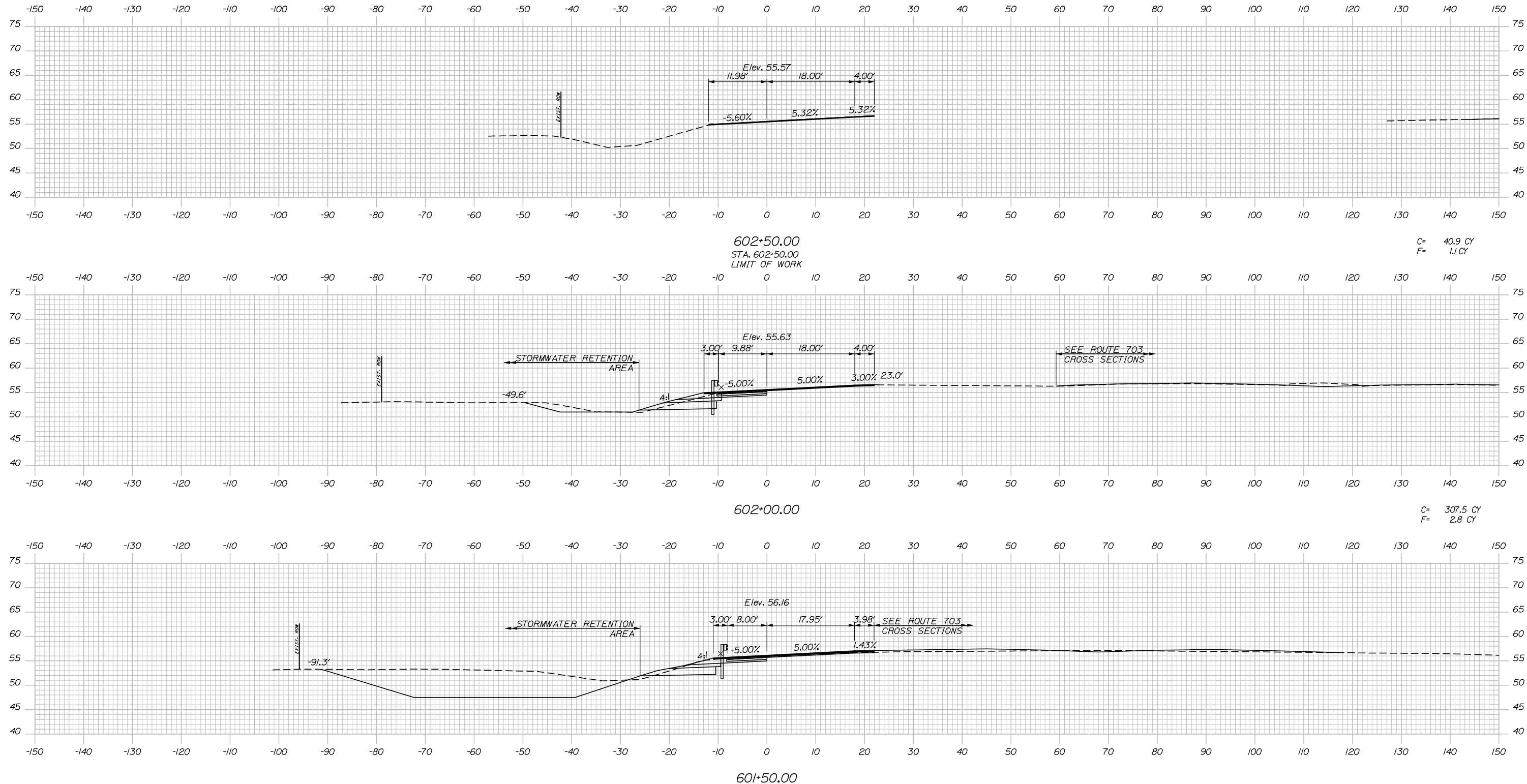
SHEET NUMBER: XS-142
276 OF 431

CONTRACT: 2021.07

Filename: Xsect - Maine Mill Ramps.dgn

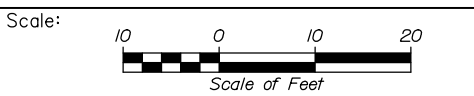
Date: 1/14/2021

Filename: Xsect - Maine Mill Ramps.dgn



C= 40.9 CY
F= 1.1 CY

C= 307.5 CY
F= 2.8 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

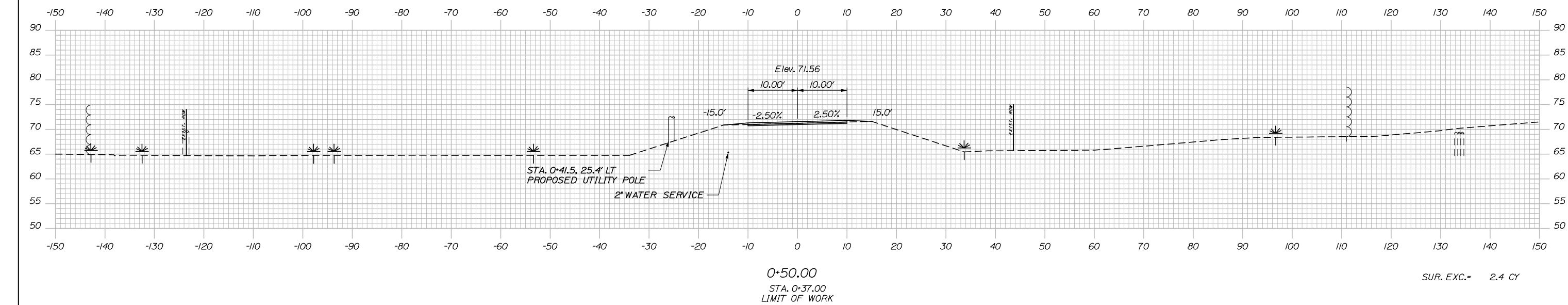
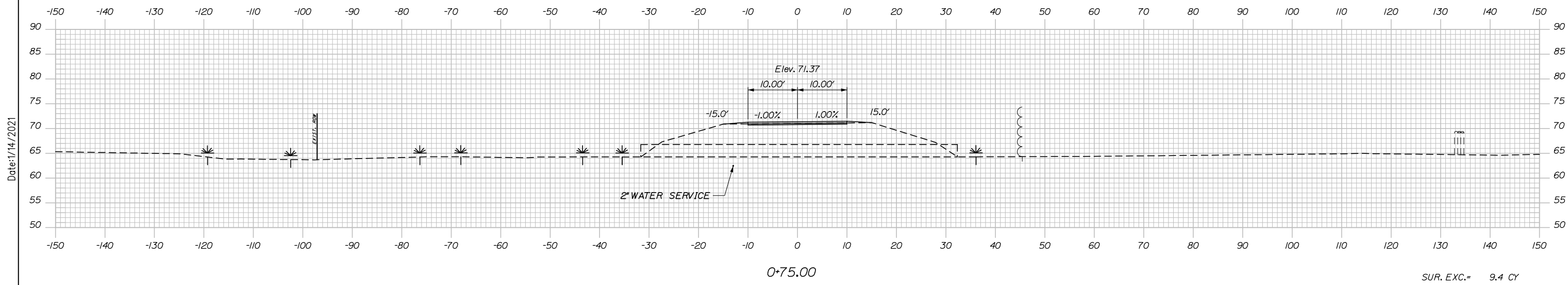
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

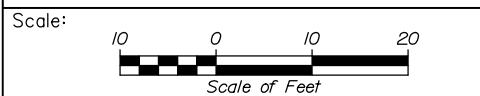
EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - RTE 703 WB ON RAMP
STA. 601+50 TO STA. 602+50

SHEET NUMBER: XS-143
CONTRACT: 2021.07
277 OF 431

Date: 1/14/2021



Filename: Xsect - AccessRoad.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

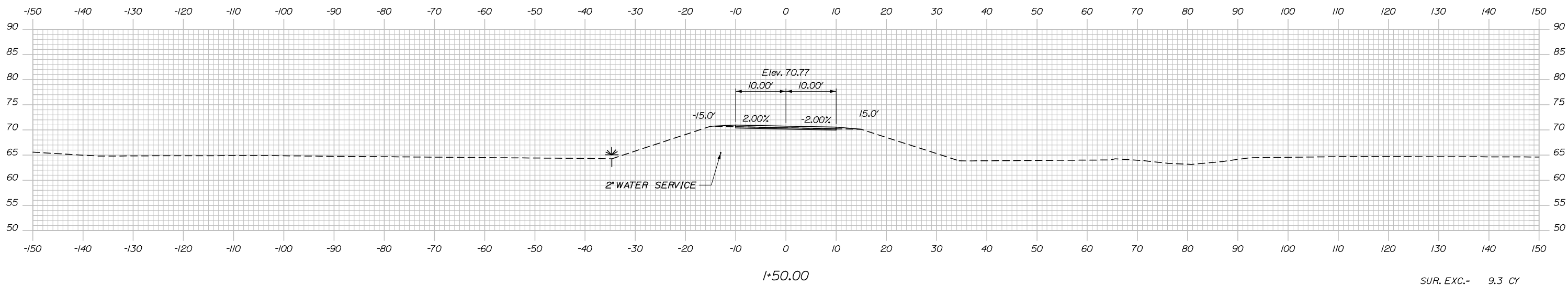
EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – ACCESS ROAD
 STA. 0+50 TO STA. 0+75

SHEET NUMBER: XS-144
 278 OF 431

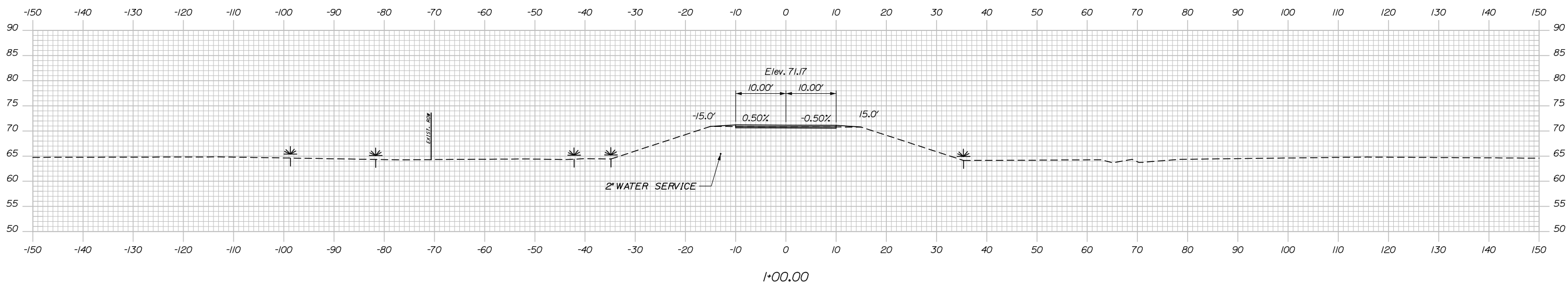
CONTRACT: 2021.07

Date: 1/14/2021

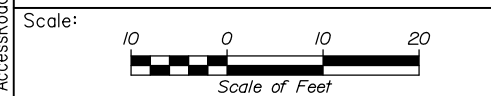
C= 0.3 CY
 F= 34.7 CY
 SUR. EXC.= 10.9 CY



SUR. EXC.= 9.3 CY



Filename: Xsect - AccessRoad.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	JRH	09\20
Drawn	CDH	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CROSS SECTIONS – ACCESS ROAD
 STA. 1+00 TO STA. 1+50

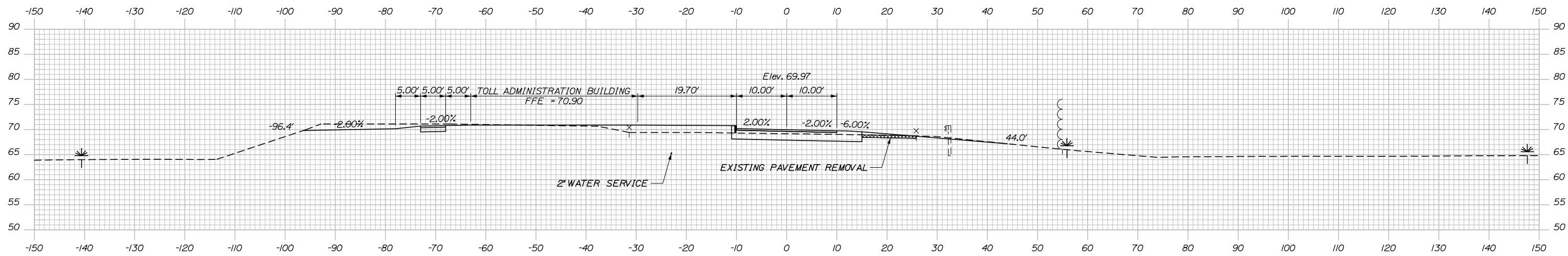
SHEET NUMBER: XS-145
 279 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

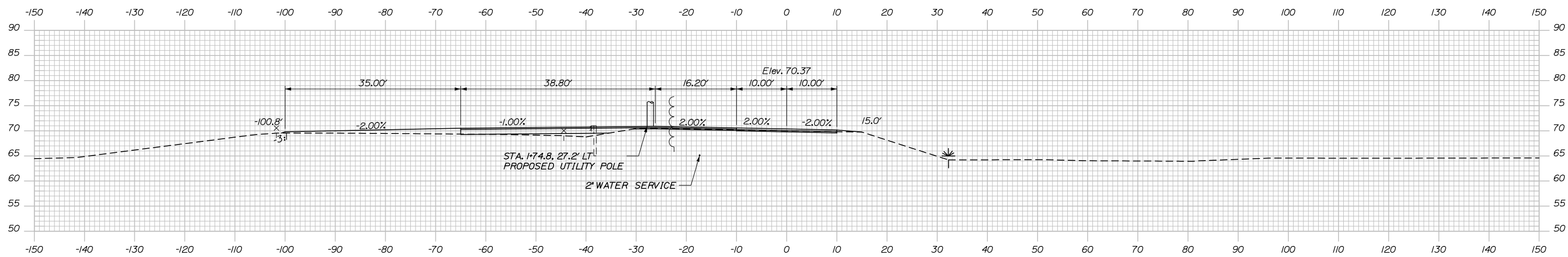
STA. 3+01.20 ACCESS ROAD @ =
STA. 112+32.88 RAMP A @

C= 58.3 CY
F= 58.3 CY
SUR. EXC.= 50.2 CY

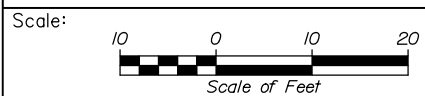


2+50.00

C= 34.0 CY
F= 62.7 CY
SUR. EXC.= 35.0 CY



2+00.00



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EXIT 45
INTERCHANGE RECONFIGURATION
CROSS SECTIONS - ACCESS ROAD
STA. 2+00 TO STA. 2+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.	
By	Date
Designed EDD	09\20
Checked JRH	09\20
By	Date
Drawn CDH	09\20
In Charge of RAL	09\20

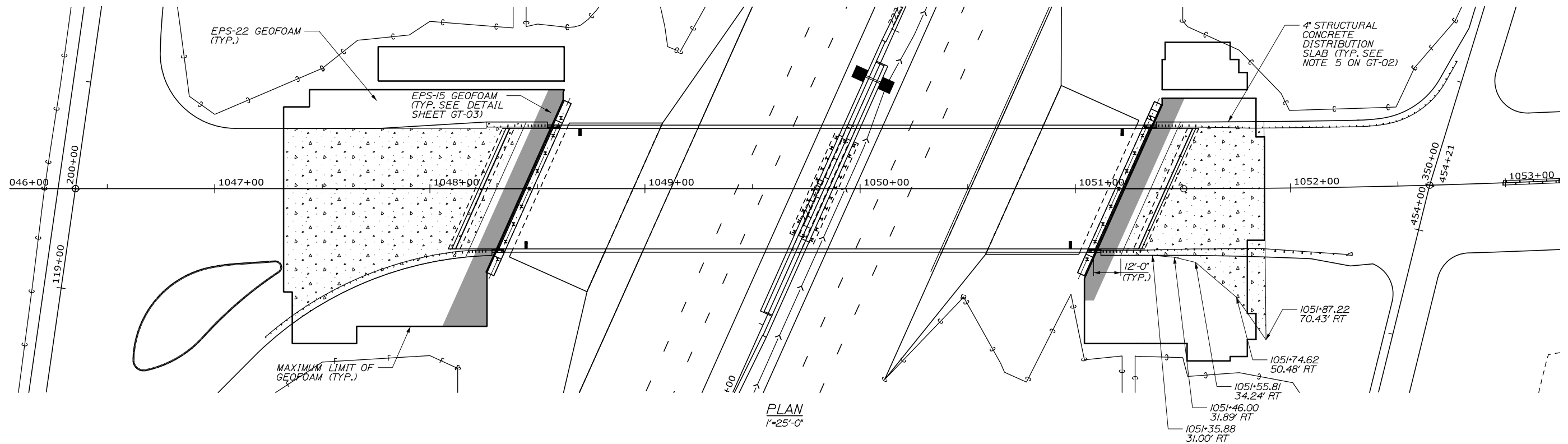
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

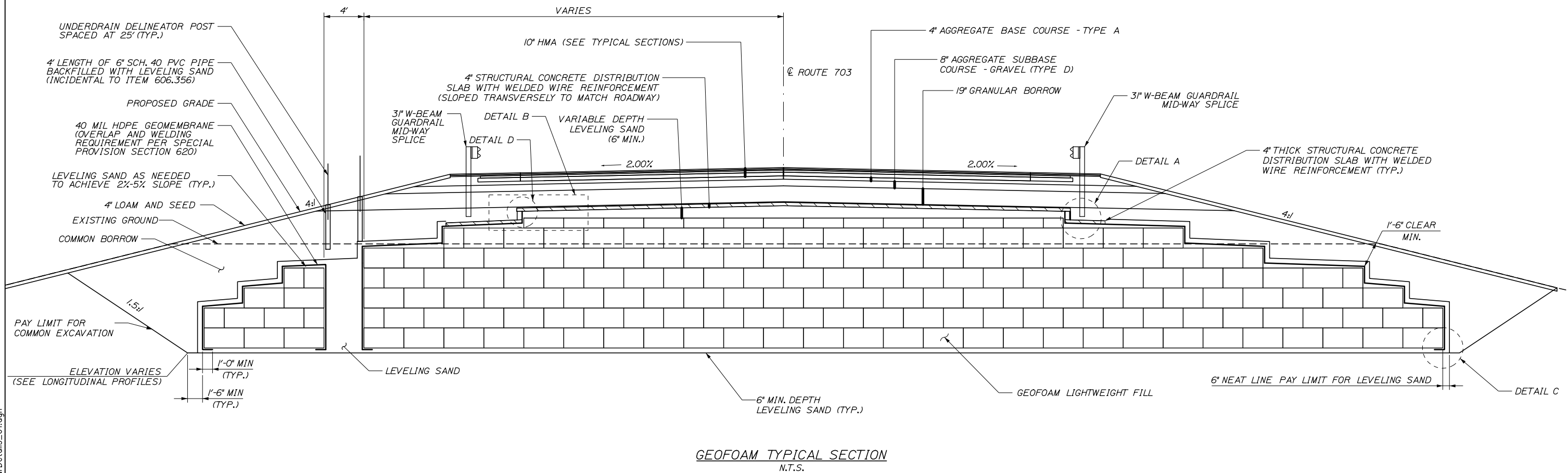
SHEET NUMBER: XS-146
280 OF 431

Filename: Xsect - AccessRoad.dgn

Date: 1/14/2021



PLAN
1"=25'-0"



GEOFOAM TYPICAL SECTION
N.T.S.

Filename: 0XX_Geofom_SpecialDetails_01.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	09\20	Checked	RWH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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Westbrook, ME 04092
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FAX (207) 228-0909

MAINE
TURNPIKE

**THE GOLD STAR
MEMORIAL HIGHWAY**

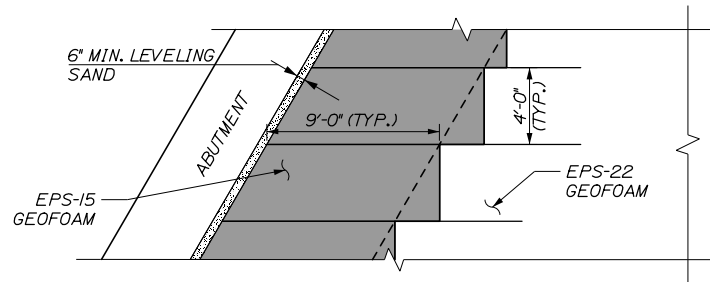
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
GEOFOAM PLAN AND TYPICAL SECTION

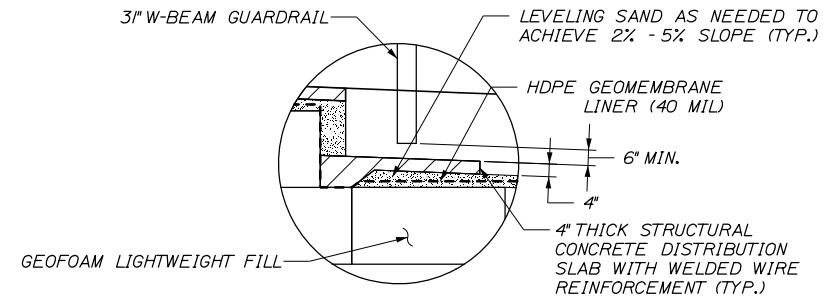
SHEET NUMBER: GT-01
281 OF 431

CONTRACT: 2021.07

Date: 1/14/2021



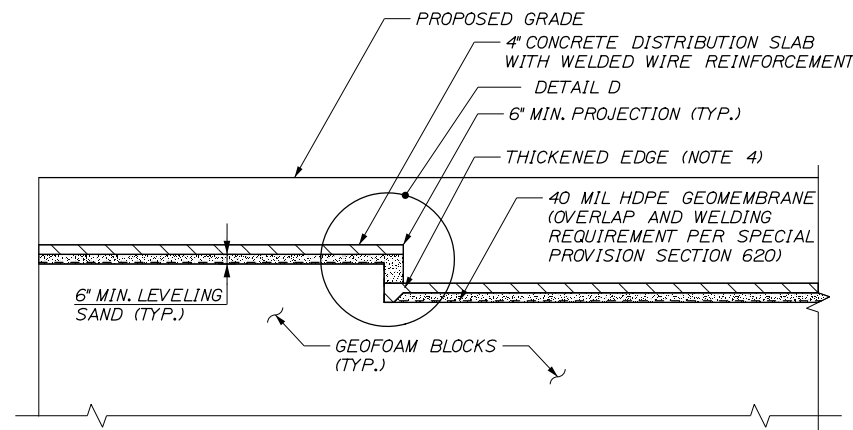
GEOFOAM MATERIAL TRANSITION DETAIL



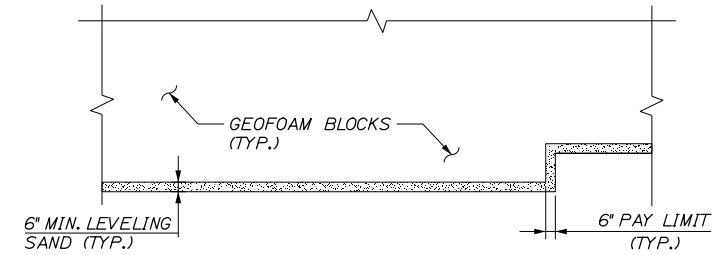
DETAIL A

GEOFOAM NOTES:

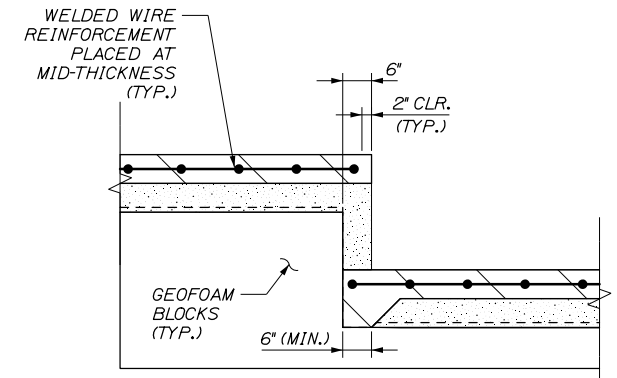
1. GEOFOAM LIGHTWEIGHT FILL SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.
2. WELDED WIRE REINFORCEMENT SHALL BE INCIDENTAL TO PAY ITEM 502.452, STRUCTURAL CONCRETE DISTRIBUTION SLAB.
3. STRUCTURAL WELDED WIRE REINFORCEMENT SHALL BE UNCOATED, PLAIN 6x6-W5.5xW5.5 MEETING THE REQUIREMENTS OF AASHTO M336 WITH A MINIMUM YIELD STRENGTH OF 65 KSI.
4. THICKENED EDGES SHALL BE FORMED AT ALL STEPS.
5. LIMITS OF THE DISTRIBUTION SLAB SHOWN IN THE PLAN VIEW ARE APPROXIMATE AND SHALL EXTEND TO THE EDGE OF PROPOSED PAVEMENT UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY THE LIMITS IN CONJUNCTION WITH DEVELOPMENT OF GEOFOAM SHOP DRAWINGS.



DETAIL B
 N.T.S.



DETAIL C - LONGITUDINAL BOTTOM STEP
 N.T.S.



DETAIL D
 N.T.S.

GEOFOAM DETAILS

Filename: 0XX_Geofoam_SpecialDetails_02.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	EDD	09\20	Checked	RWH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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 Westbrook, ME 04092
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

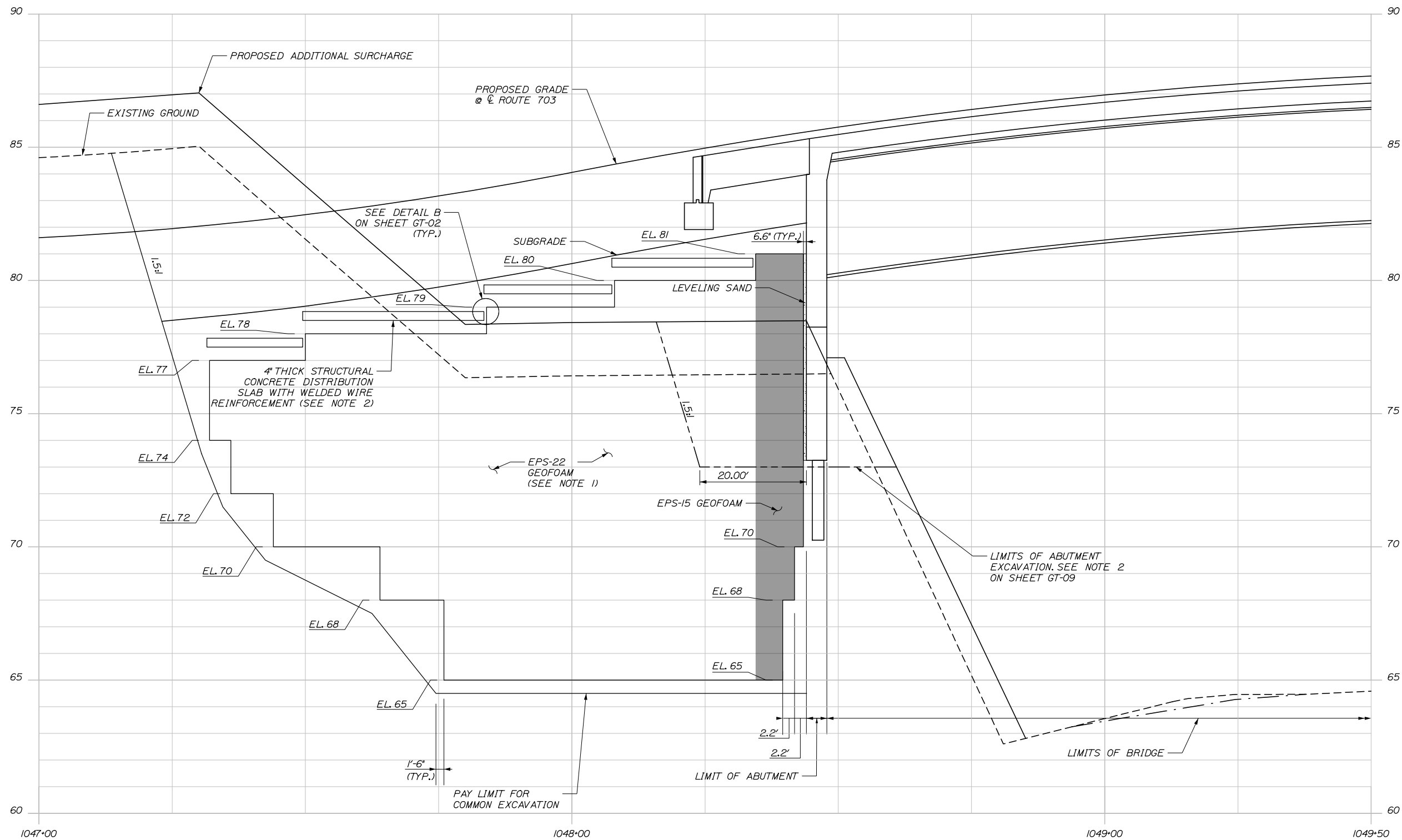
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 GEOFOAM DETAILS

SHEET NUMBER: GT-02
 282 OF 431

CONTRACT: 2021.07

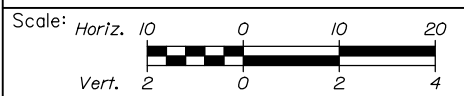
Date: 1/14/2021



NOTES:

1. GEOFOAM ELEVATIONS SHOWN DEPICT THE HIGHEST AND LOWEST ELEVATIONS AT WHICH GEOFOAM IS TO BE PLACED FOR THE GIVEN STATIONING. THE TRANSVERSE OFFSET AT WHICH THE HIGHEST AND LOWEST ELEVATIONS OF GEOFOAM OCCURS VARIES. FOR REPRESENTATION OF TRANSVERSE LIMITS, REFER TO GEOFOAM LAYOUT DRAWINGS GT-05 THROUGH GT-06.
2. CONCRETE DISTRIBUTION SLAB MAY BE CAST AS A CONTINUOUS SLAB RATHER THAN WITH THE LONGITUDINAL STEPS AS SHOWN. HOWEVER, THE TOP SLAB MUST BE CAST LEVEL AS SHOWN TO ACCOMMODATE THE SLEEPER SLAB. ANY ADDITIONAL LEVELING SAND REQUIRED TO CAST THE SLAB ON GRADE SHALL BE PROVIDED AND PLACED AT NO ADDITIONAL COST TO THE AUTHORITY.
3. FOR GEOFOAM TYPICAL SECTION SEE SHEET GT-01.

Filename: 0XX_GeofoamProfile_01.dgn



Designed by:



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340 County Road, Suite 6-C
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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION
GEOFOAM LONGITUDINAL PROFILE
ABUTMENT 1**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	JDZ 09\20	Checked	JRH 09\20
Drawn	ARE 09\20	In Charge of	RAL 09\20

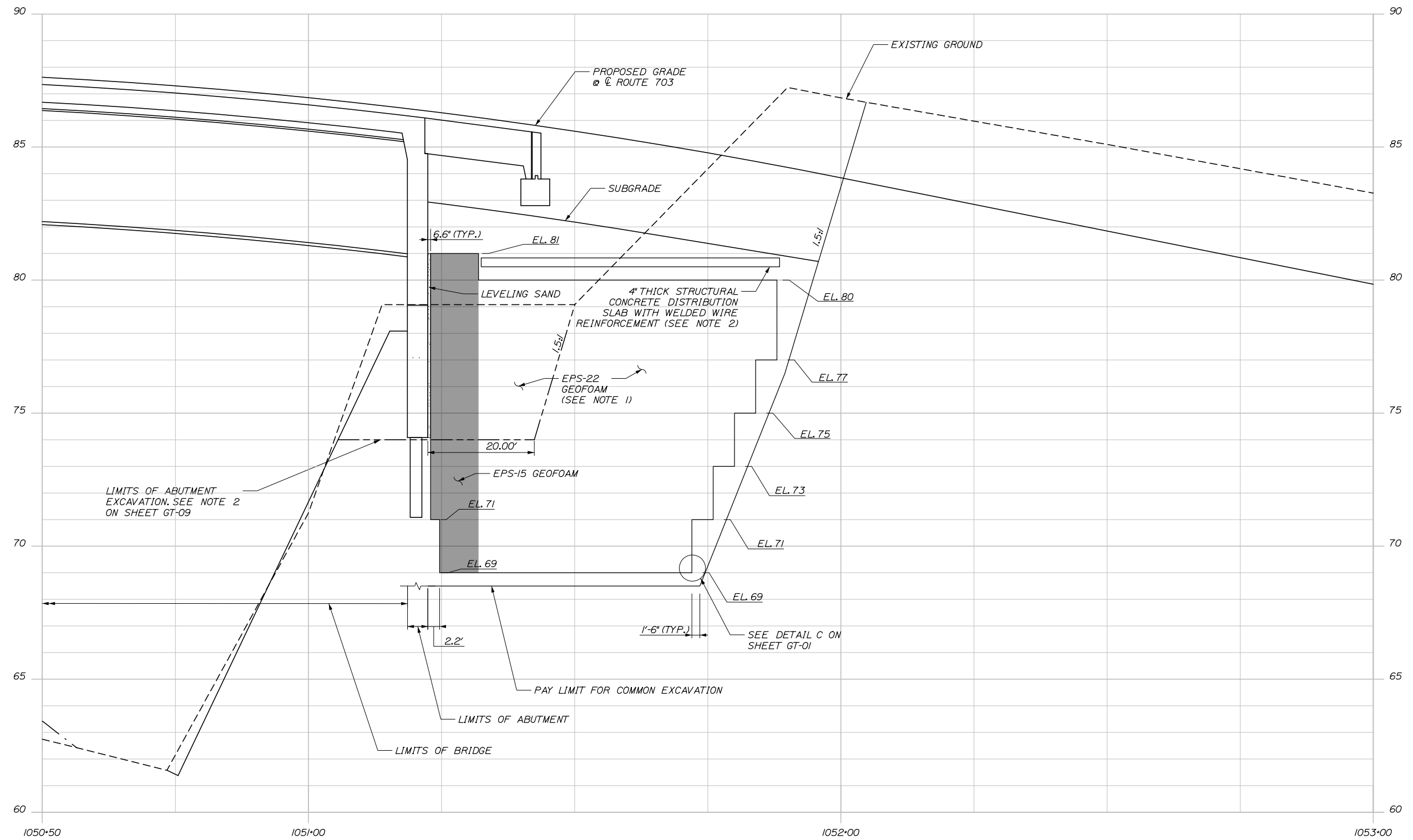
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: GT-03

283 OF 431

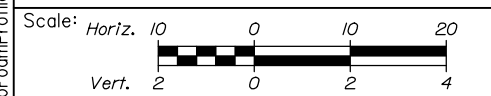
Date: 1/14/2021



NOTES:

- GEOFOAM ELEVATIONS SHOWN DEPICT THE HIGHEST AND LOWEST ELEVATIONS AT WHICH GEOFOAM IS TO BE PLACED FOR THE GIVEN STATIONING. THE TRANSVERSE OFFSET AT WHICH THE HIGHEST AND LOWEST ELEVATIONS OF GEOFOAM OCCURS VARIES. FOR REPRESENTATION OF TRANSVERSE LIMITS, REFER TO GEOFOAM LAYOUT DRAWINGS GT-07 THROUGH GT-08.
- FOR GEOFOAM TYPICAL SECTION SEE SHEET GT-01.

Filename: 0XX_GeofoamProfile_02.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JDZ	09\20	Checked	JRH	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

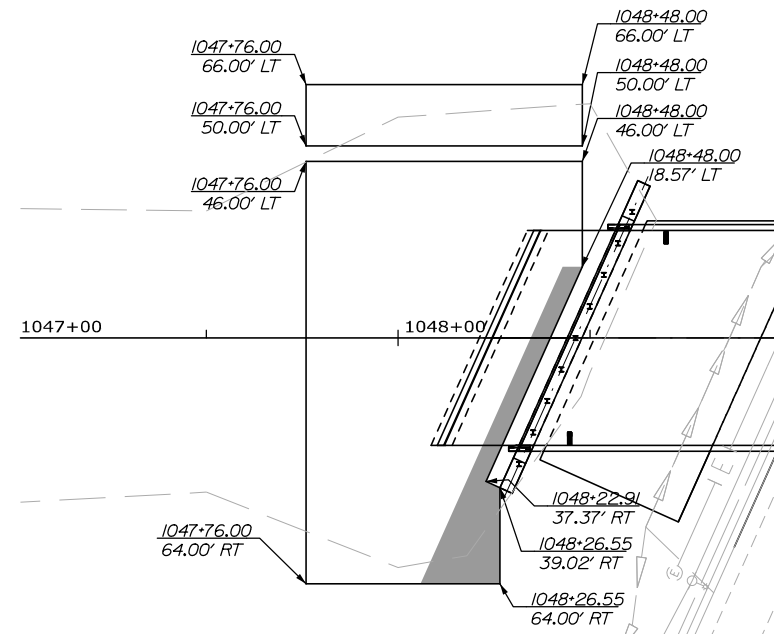
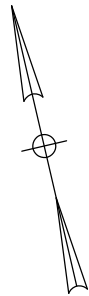
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
GEOFOAM LONGITUDINAL PROFILE
ABUTMENT 2

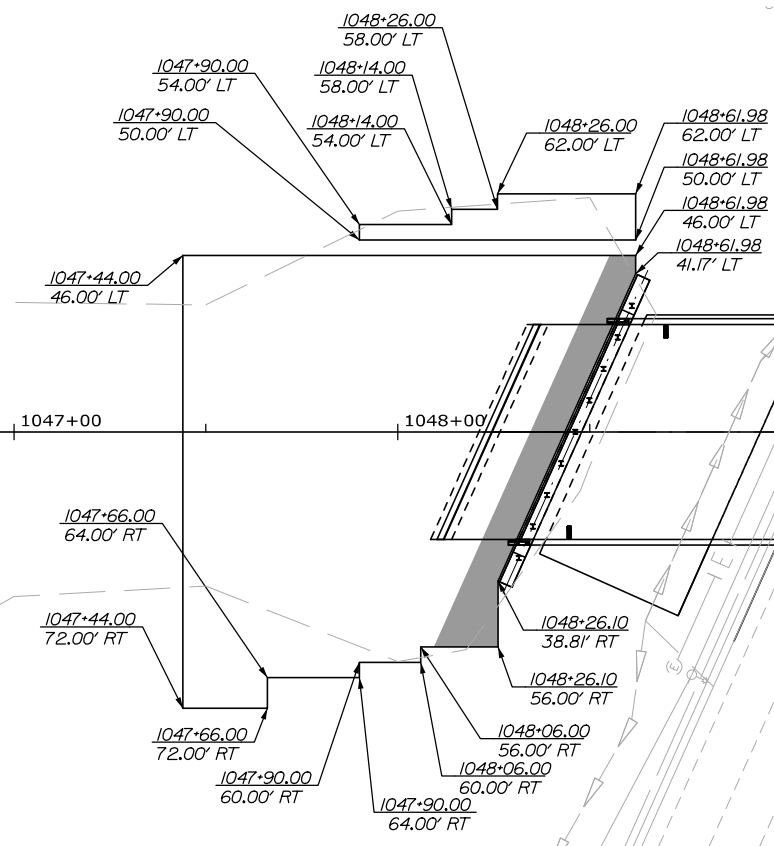
SHEET NUMBER: GT-04
CONTRACT: 2021.07
284 OF 431

Date: 1/14/2021

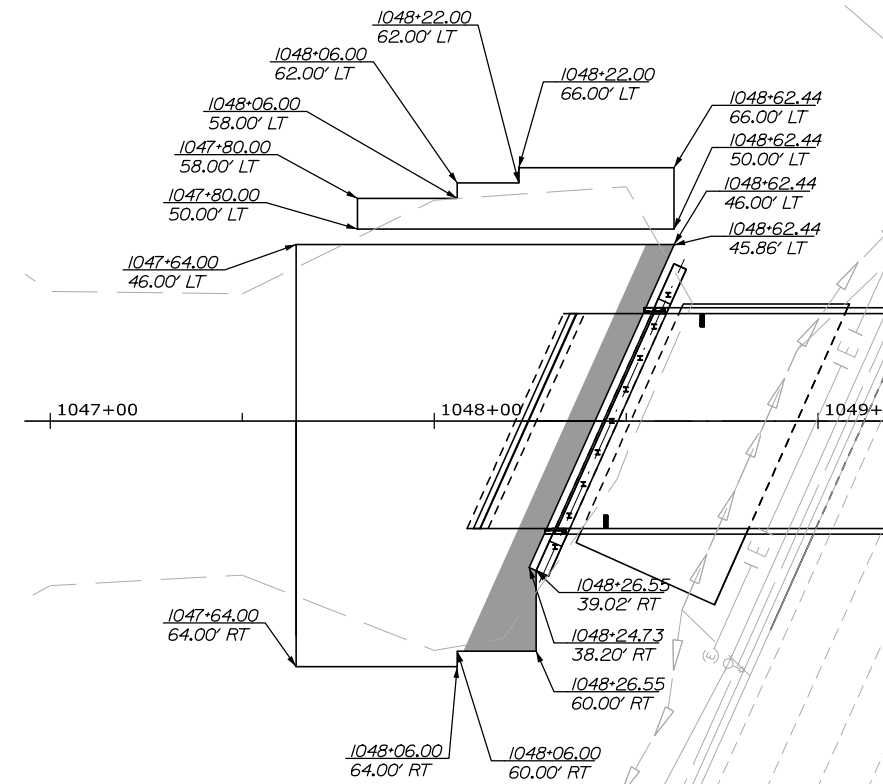
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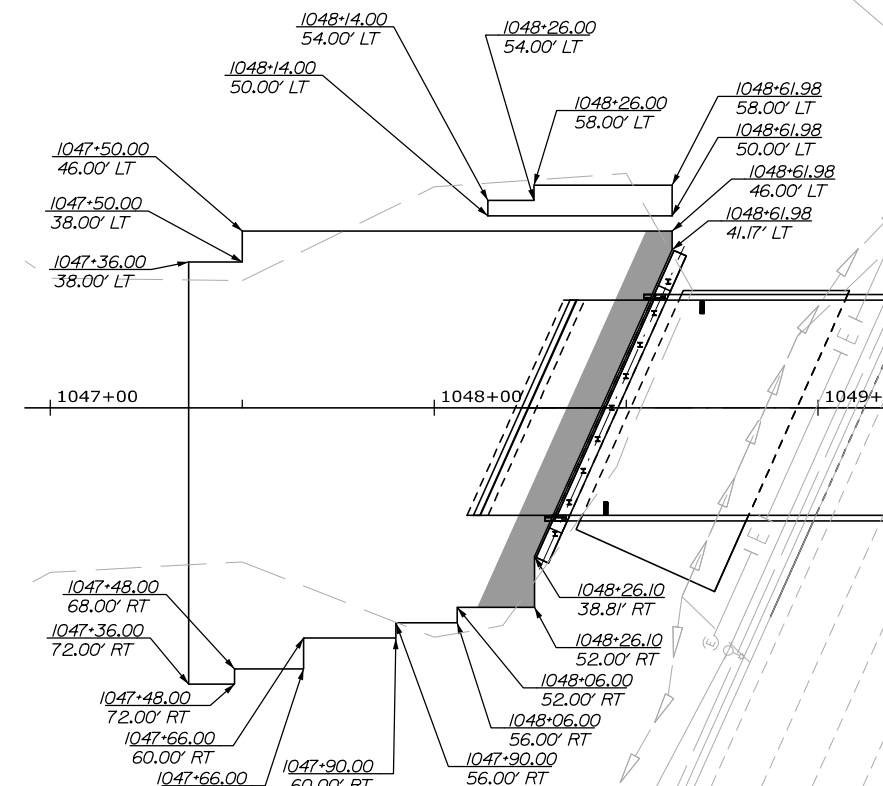
LEVEL 1
BOTTOM ELEVATION - EL. 65
TOP ELEVATION - EL. 68



LEVEL 3
BOTTOM ELEVATION - EL. 70
TOP ELEVATION - EL. 72



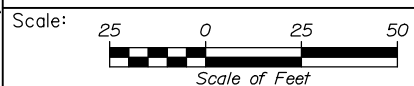
LEVEL 2
BOTTOM ELEVATION - EL. 68
TOP ELEVATION - EL. 70



LEVEL 4
BOTTOM ELEVATION - EL. 72
TOP ELEVATION - EL. 74

NOTES:

1. THE CONTRACTOR MAY MAKE MINOR ALTERATIONS TO THE GEOFOAM LAYOUT DEPICTED ON THE PLANS TO MEET THEIR CONSTRUCTION MEANS AND METHODS. ANY SUCH MODIFICATIONS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS.
2. GEOFOAM IN THE SHADED REGIONS SHALL MEET THE MATERIAL REQUIREMENTS OF EPS 15 AS DEFINED IN THE PROJECT SPECIFICATIONS. IT IS NOT PERMISSIBLE TO REPLACE MATERIAL IN THESE REGIONS WITH A HIGHER GRADE GEOFOAM. HIGHER GRADE GEOFOAM MAY NOT BE REPLACED WITH EPS 15.
3. GEOFOAM SHALL BE INSTALLED TO MEET THE EXTERIOR BOUNDARIES AS DEFINED BY THE STATIONS, OFFSETS, AND ELEVATIONS SHOWN IN THE LAYOUT PLANS. WITHIN THE INTERIOR OF THE GEOFOAM ZONES, BLOCK PLACEMENT IS LEFT TO THE MEANS AND METHODS OF THE CONTRACTOR. THAT IS, THE VERTICAL THICKNESSES OF THE BLOCKS MAY BE LARGER OR SMALLER THAN THE "LEVELS" SHOWN ON THE PLANS PROVIDING THE LAYERS ARE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIAL PROVISIONS (E.G. OFFSET VERTICAL JOINTS, PERPENDICULAR ORIENTATION OF SUCCESSIVE LAYERS AND BLOCKS ARE A MINIMUM OF 4'X4'X1'), THOUGH OCCASIONAL EXCEPTIONS MAY BE NECESSARY AT EDGE AND TRANSITION LOCATIONS AS APPROVED BY THE ENGINEER. GEOFOAM INSTALLATION SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE RESIDENT.



Designed by:



CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date	No.	Revision	By	Date

By	Date	By	Date
Designed JDZ	09\20	Checked JRH	09\20
Drawn EPR	09\20	In Charge of RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
GEOFOAM LAYOUT ABUTMENT 1**

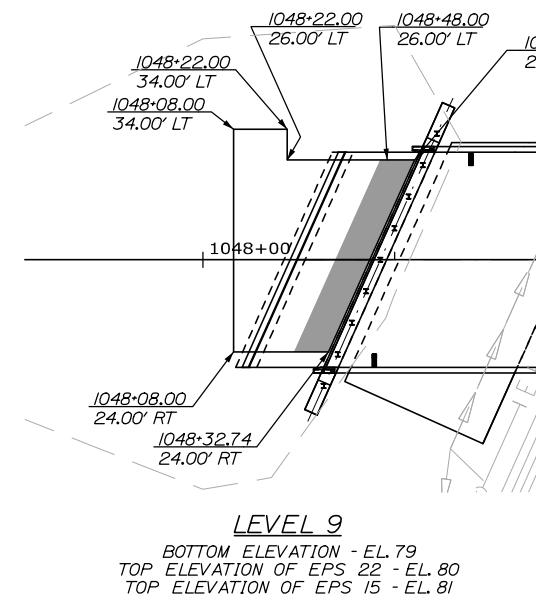
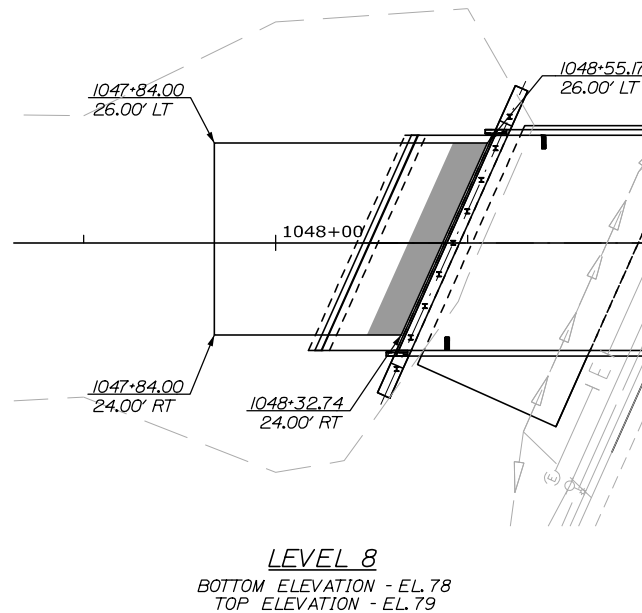
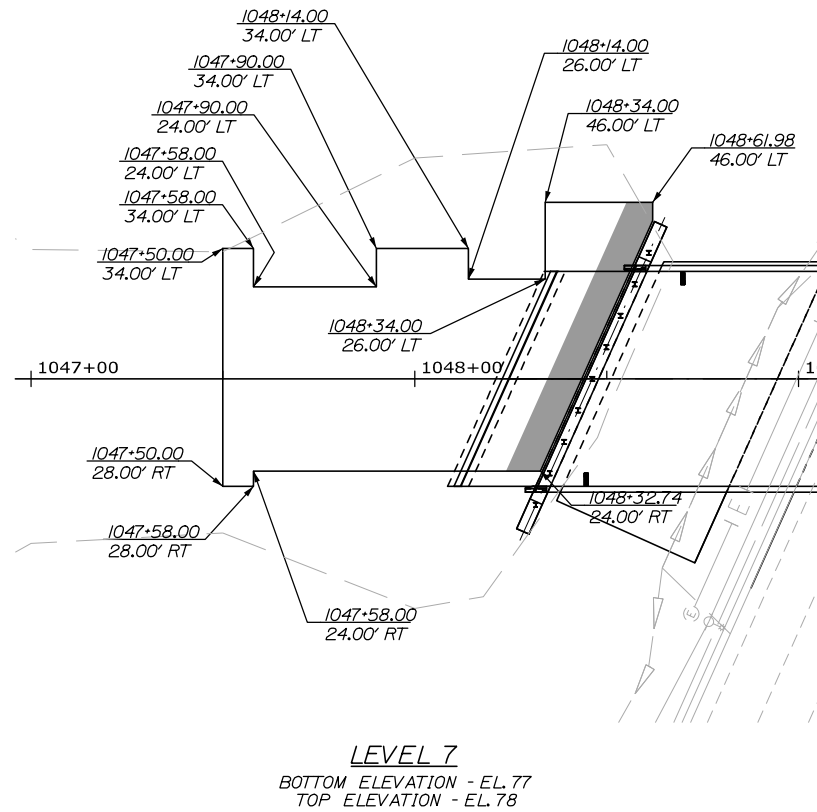
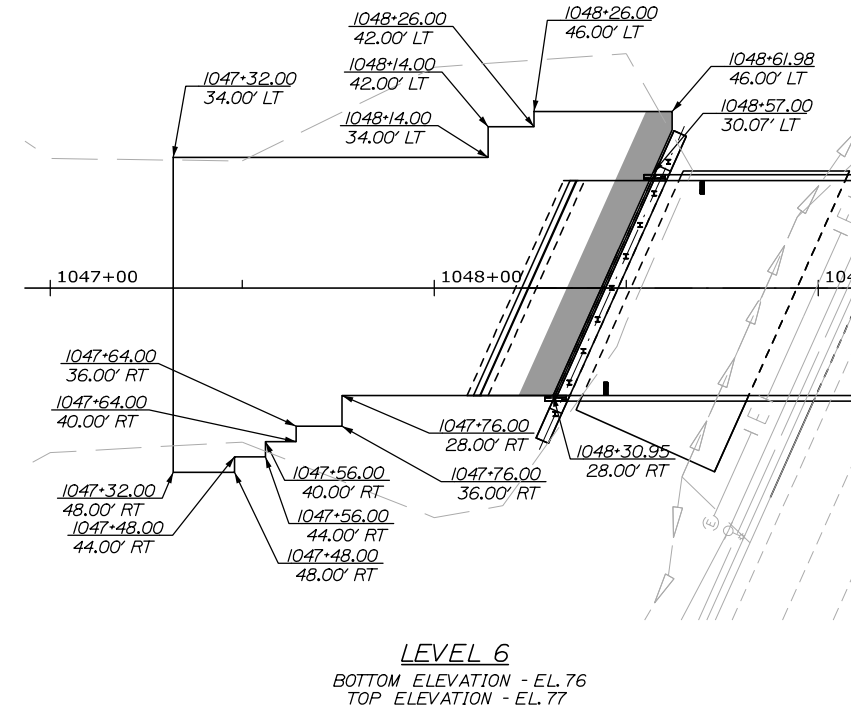
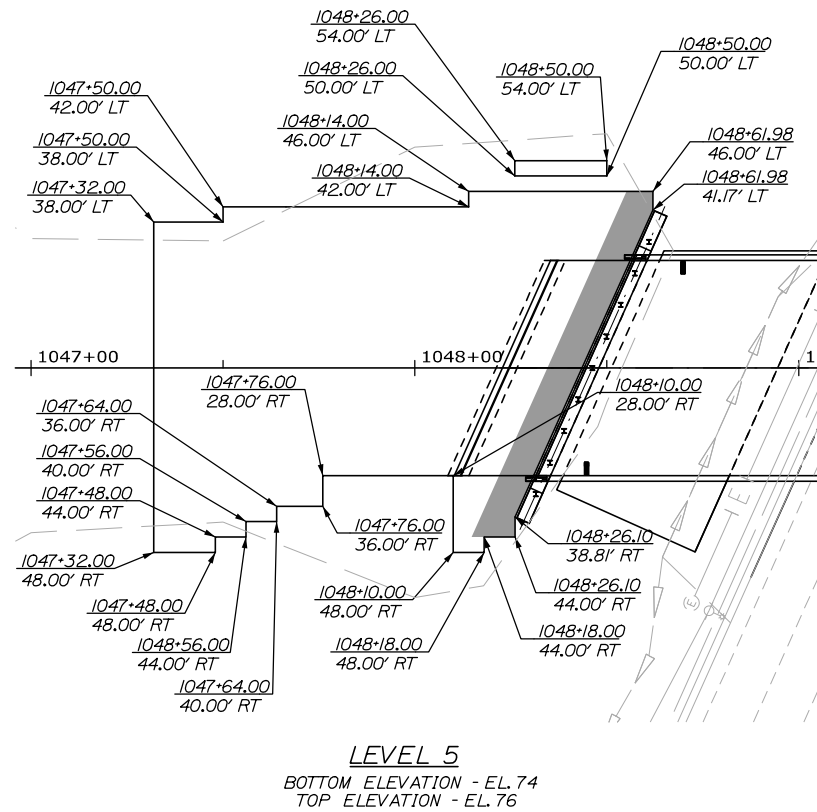
CONTRACT: 2021.07

SHEET NUMBER: GT-05

285 OF 431

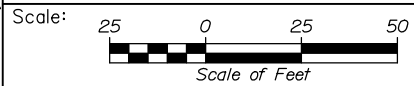
Date: 1/14/2021

Filename: 0XX_Geofoam Layout West_Plan2.dgn



NOTES:

1. THE CONTRACTOR MAY MAKE MINOR ALTERATIONS TO THE GEOFOAM LAYOUT DEPICTED ON THE PLANS TO MEET THEIR CONSTRUCTION MEANS AND METHODS. ANY SUCH MODIFICATIONS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS.
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Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JDZ	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

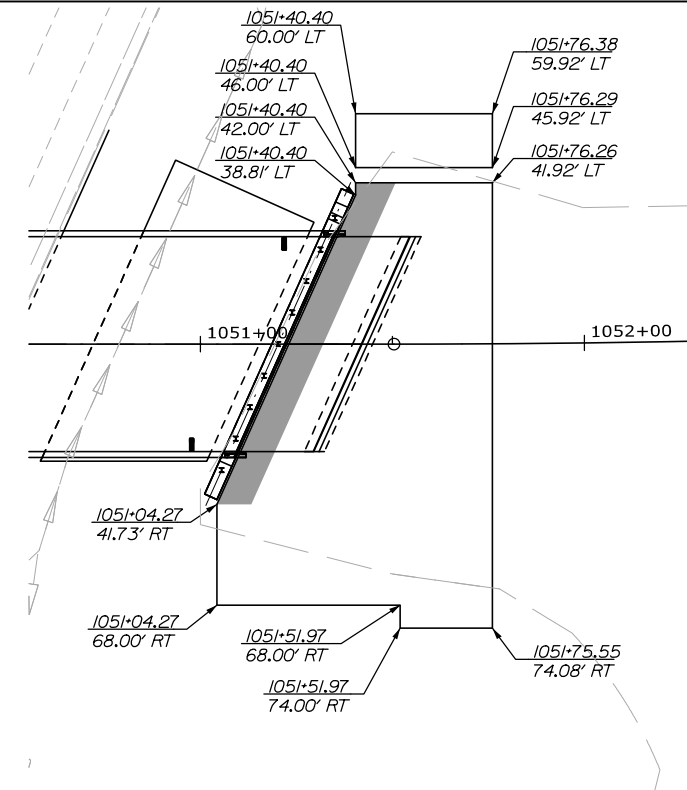
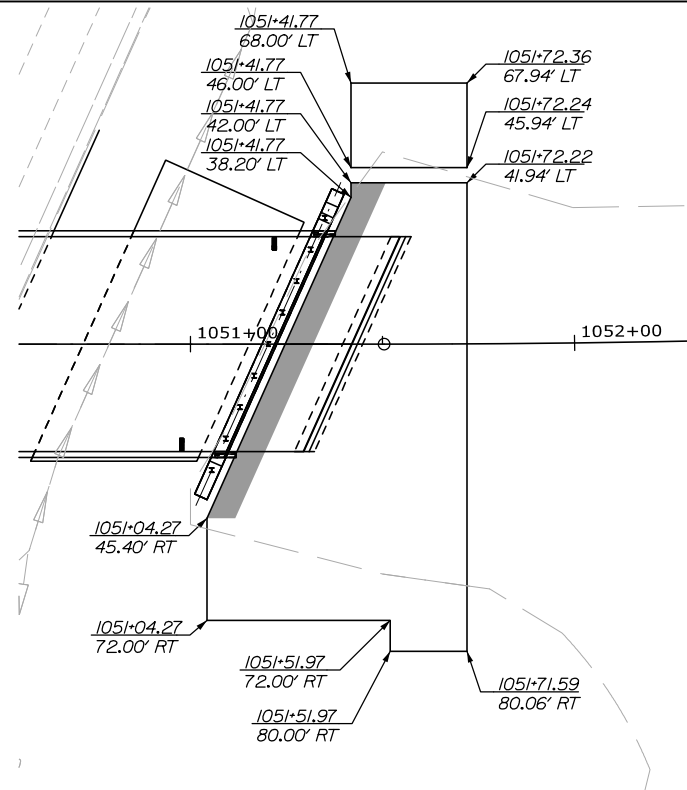
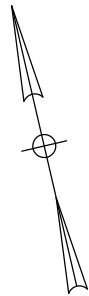
**EXIT 45
INTERCHANGE RECONFIGURATION
GEOFOAM LAYOUT ABUTMENT 1**

SHEET NUMBER: GT-06
286 OF 431

CONTRACT: 2021.07

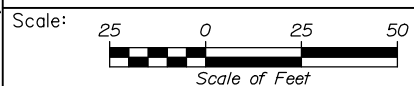
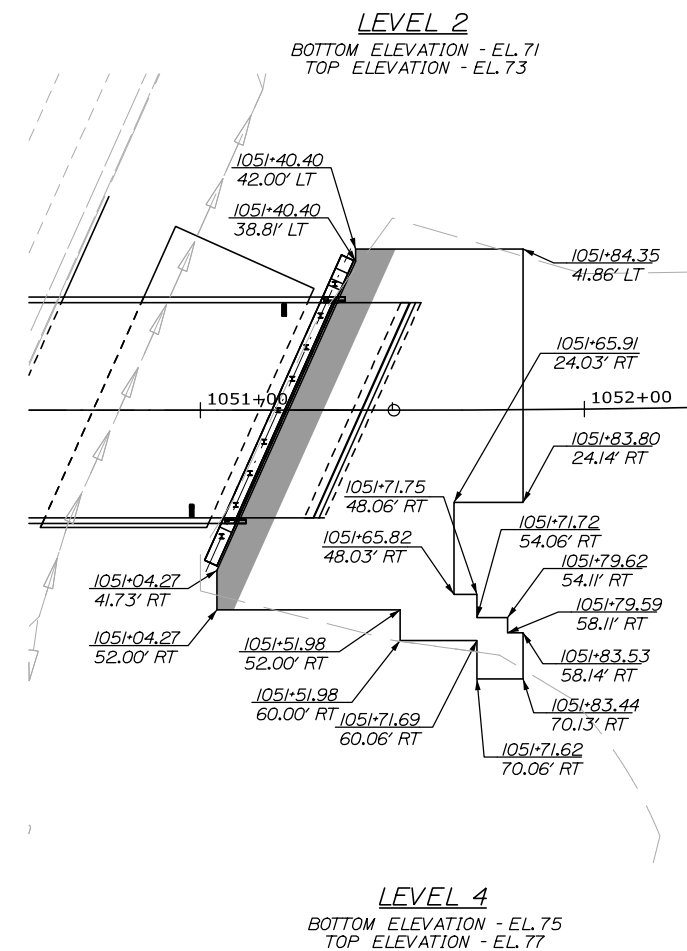
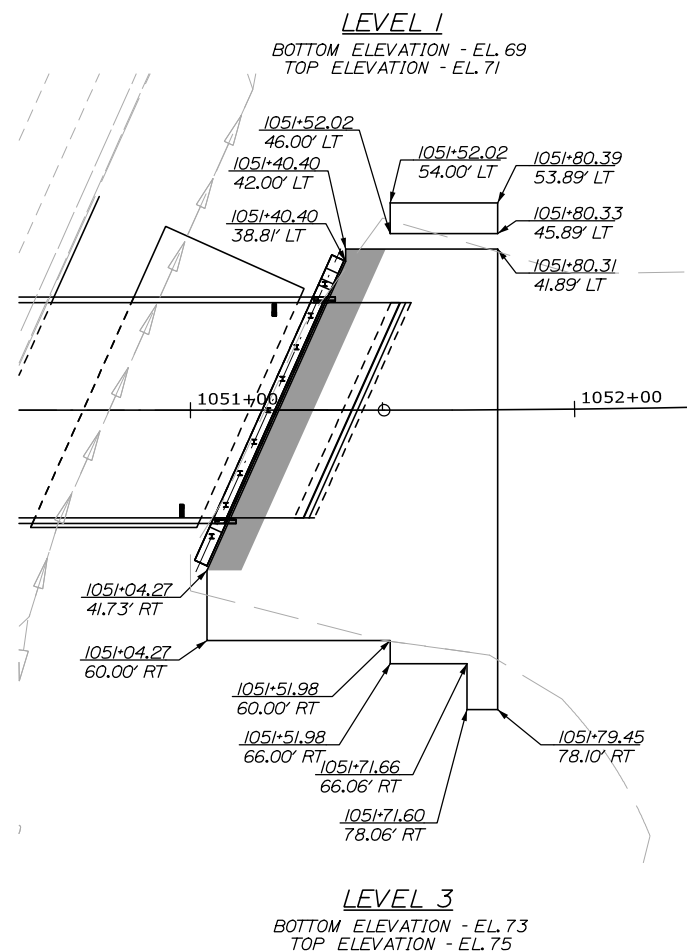
Date: 1/14/2021

Filename: 0XX_Gefoam_Layout_East_Plan.dgn



NOTES:

1. THE CONTRACTOR MAY MAKE MINOR ALTERATIONS TO THE GEOFOAM LAYOUT DEPICTED ON THE PLANS TO MEET THEIR CONSTRUCTION MEANS AND METHODS. ANY SUCH MODIFICATIONS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS.
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4. GEOFOAM SHALL BE INSTALLED ORTHOGONAL TO THE BRIDGE.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JDZ	09\20	Checked	JRH	09\20
Drawn	EPR	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

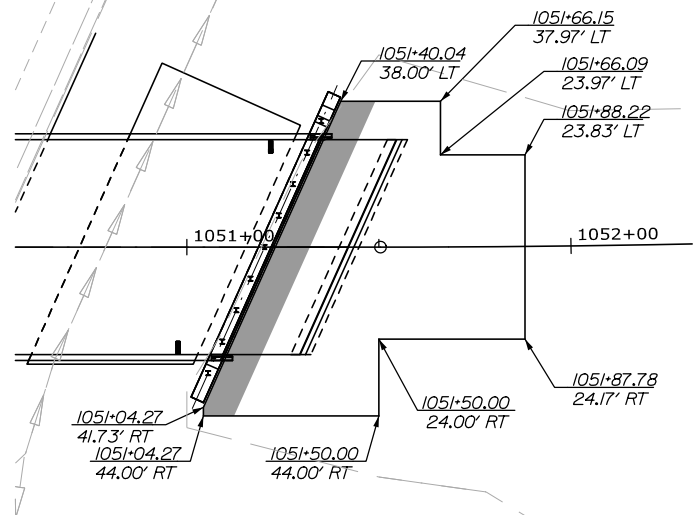
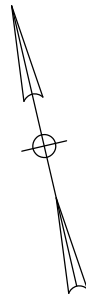
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
GEOFOAM LAYOUT ABUTMENT 2

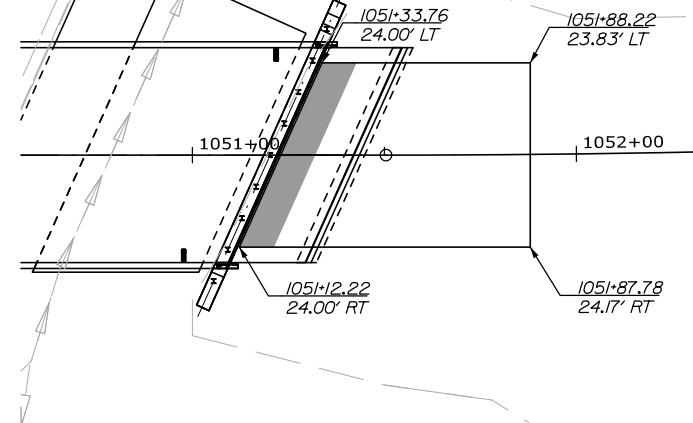
SHEET NUMBER: GT-07
CONTRACT: 2021.07
287 OF 431

Date: 1/14/2021

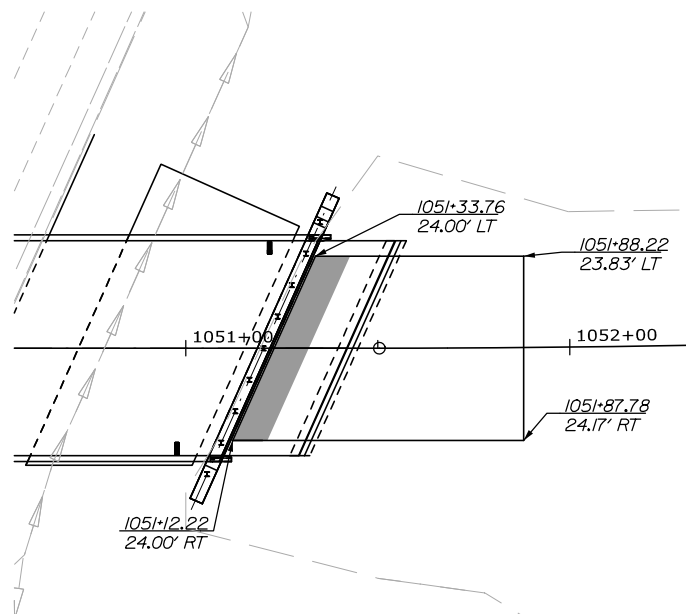
Filename: 0XX_Geofoam_Layout_East_Plan2.dgn



LEVEL 5
 BOTTOM ELEVATION - EL. 77
 TOP ELEVATION - EL. 78



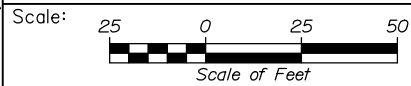
LEVEL 6
 BOTTOM ELEVATION - EL. 78
 TOP ELEVATION - EL. 79



LEVEL 7
 BOTTOM ELEVATION - EL. 79
 TOP ELEVATION OF EPS 22 - EL. 80
 TOP ELEVATION OF EPS 15 - EL. 81

NOTES:

1. THE CONTRACTOR MAY MAKE MINOR ALTERATIONS TO THE GEOFOAM LAYOUT DEPICTED ON THE PLANS TO MEET THEIR CONSTRUCTION MEANS AND METHODS. ANY SUCH MODIFICATIONS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS.
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4. GEOFOAM SHALL BE INSTALLED ORTHOGONAL TO THE BRIDGE.



Designed by:



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

**EXIT 45
 INTERCHANGE RECONFIGURATION
 GEOFOAM LAYOUT ABUTMENT 2**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	JDZ	09\20	Checked JRH 09\20
Drawn	EPR	09\20	In Charge of RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: GT-08

288 OF 431

Date: 1/14/2021

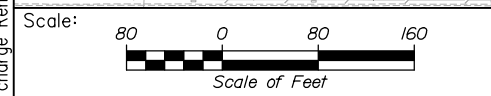
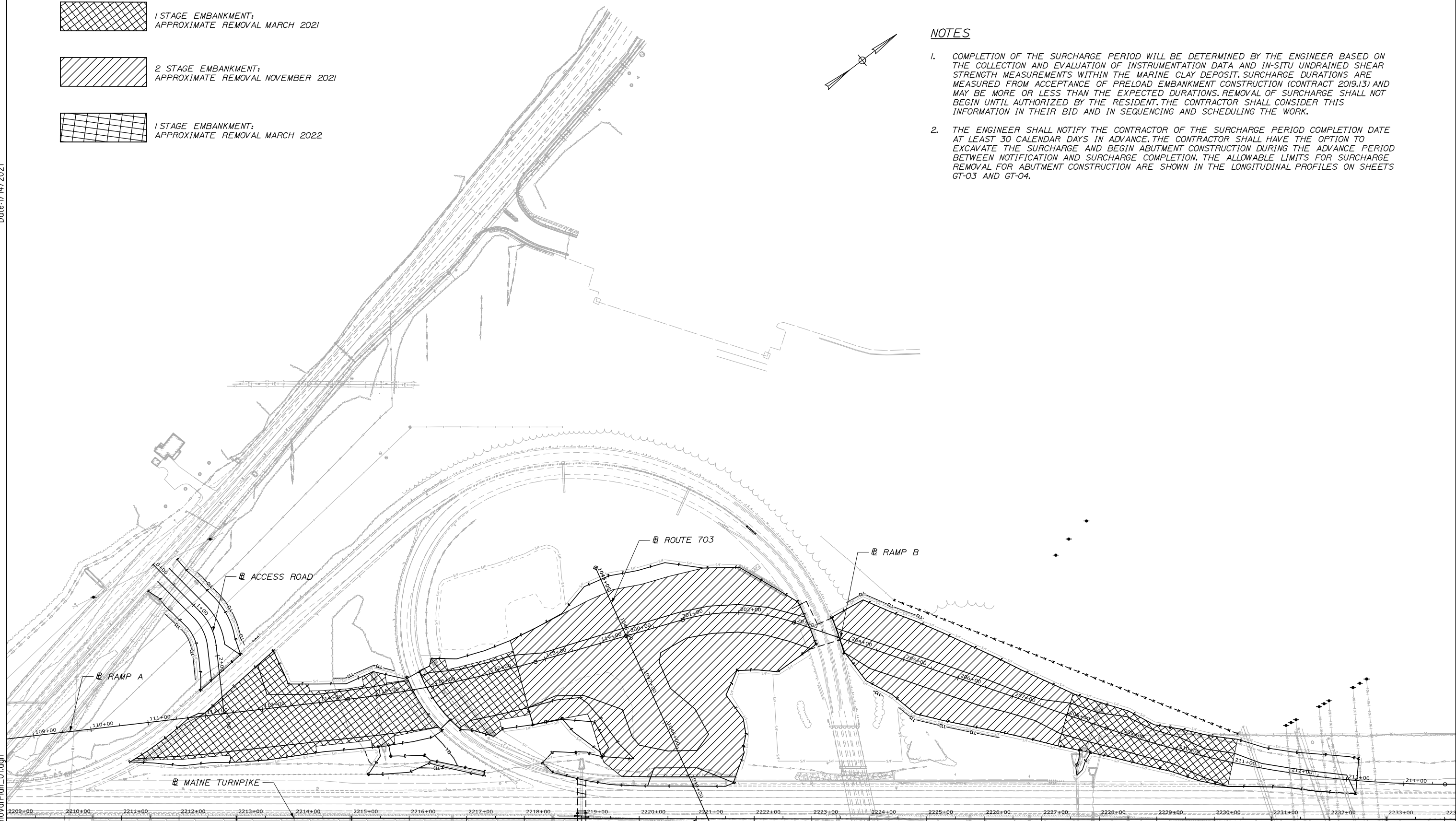
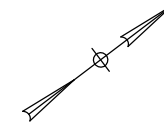
 1 STAGE EMBANKMENT:
APPROXIMATE REMOVAL MARCH 2021

 2 STAGE EMBANKMENT:
APPROXIMATE REMOVAL NOVEMBER 2021

 1 STAGE EMBANKMENT:
APPROXIMATE REMOVAL MARCH 2022

NOTES

1. COMPLETION OF THE SURCHARGE PERIOD WILL BE DETERMINED BY THE ENGINEER BASED ON THE COLLECTION AND EVALUATION OF INSTRUMENTATION DATA AND IN-SITU UNDRAINED SHEAR STRENGTH MEASUREMENTS WITHIN THE MARINE CLAY DEPOSIT. SURCHARGE DURATIONS ARE MEASURED FROM ACCEPTANCE OF PRELOAD EMBANKMENT CONSTRUCTION (CONTRACT 2019.13) AND MAY BE MORE OR LESS THAN THE EXPECTED DURATIONS. REMOVAL OF SURCHARGE SHALL NOT BEGIN UNTIL AUTHORIZED BY THE RESIDENT. THE CONTRACTOR SHALL CONSIDER THIS INFORMATION IN THEIR BID AND IN SEQUENCING AND SCHEDULING THE WORK.
2. THE ENGINEER SHALL NOTIFY THE CONTRACTOR OF THE SURCHARGE PERIOD COMPLETION DATE AT LEAST 30 CALENDAR DAYS IN ADVANCE. THE CONTRACTOR SHALL HAVE THE OPTION TO EXCAVATE THE SURCHARGE AND BEGIN ABUTMENT CONSTRUCTION DURING THE ADVANCE PERIOD BETWEEN NOTIFICATION AND SURCHARGE COMPLETION. THE ALLOWABLE LIMITS FOR SURCHARGE REMOVAL FOR ABUTMENT CONSTRUCTION ARE SHOWN IN THE LONGITUDINAL PROFILES ON SHEETS GT-03 AND GT-04.



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	09\20	Checked	JRS	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
SURCHARGE REMOVAL PLAN 1

SHEET NUMBER: GT-09
289 OF 431

CONTRACT: 2021.07

Filename: 00X_Surcharge Removal Plan_01.dgn



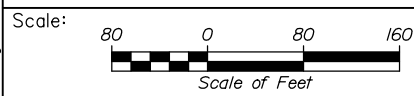
Date: 1/14/2021

Filename: 00X_Surcharge Removal Plan_02.dgn

 1 STAGE EMBANKMENT:
APPROXIMATE REMOVAL MARCH 2021

 2 STAGE EMBANKMENT:
APPROXIMATE REMOVAL NOVEMBER 2021

 1 STAGE EMBANKMENT:
APPROXIMATE REMOVAL MARCH 2022



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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
SURCHARGE REMOVAL PLAN 2

CONTRACT: 2021.07

SHEET NUMBER: GT-10

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SETTLEMENT PLATFORMS

DESIGNATION STATION OFFSET DISTANCE AND DIRECTION

SPW-2	1+00	CENTERLINE
SPW-3	112+75	5' LT.
SPW-4	113+50	10' RT.
SPW-5	115+25	26' RT.
SPW-6	117+00	26' RT.
SPW-7	118+50	20' RT.
SPW-7A	118+50	90' RT.
SPW-8	1046+50	CENTERLINE
SPW-9	1047+00	5' RT.
SPW-10	1047+75	CENTERLINE
SPW-11	1048+14	6' LT.
SPW-12	200+50	15' RT.
SPW-13	202+00	10' RT.
SPW-14	204+50	10' RT.
SPW-15	206+00	10' RT.
SPW-16	207+50	8' RT.
SPW-17	209+00	1' LT.

PIEZOMETERS

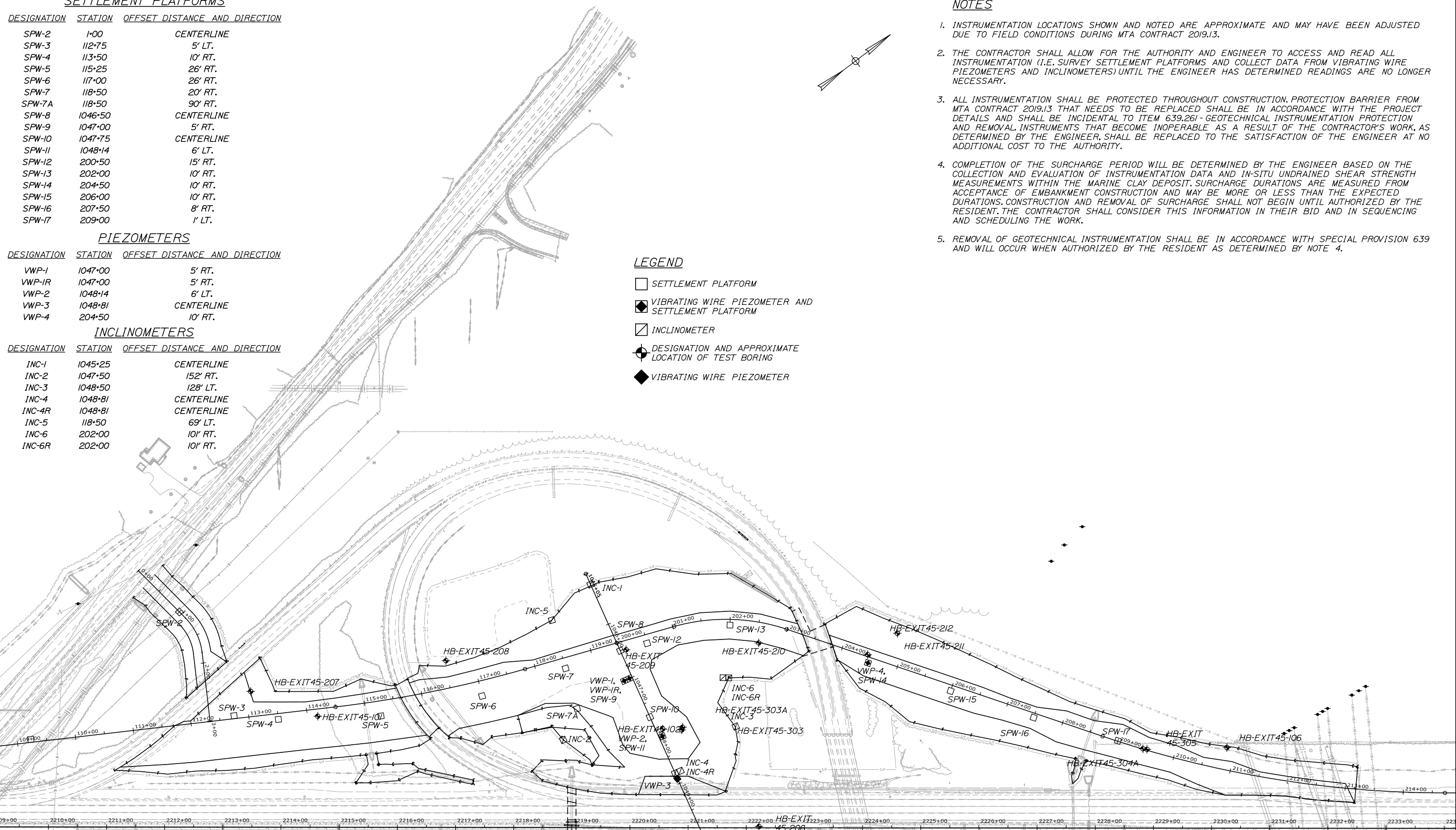
DESIGNATION STATION OFFSET DISTANCE AND DIRECTION

VWP-1	1047+00	5' RT.
VWP-1R	1047+00	5' RT.
VWP-2	1048+14	6' LT.
VWP-3	1048+81	CENTERLINE
VWP-4	204+50	10' RT.

INCLINOMETERS

DESIGNATION STATION OFFSET DISTANCE AND DIRECTION

INC-1	1045+25	CENTERLINE
INC-2	1047+50	152' RT.
INC-3	1048+50	128' LT.
INC-4	1048+81	CENTERLINE
INC-4R	1048+81	CENTERLINE
INC-5	118+50	69' LT.
INC-6	202+00	101' RT.
INC-6R	202+00	101' RT.

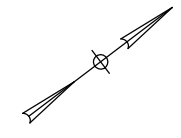


NOTES

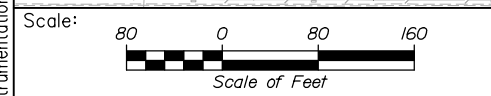
1. INSTRUMENTATION LOCATIONS SHOWN AND NOTED ARE APPROXIMATE AND MAY HAVE BEEN ADJUSTED DUE TO FIELD CONDITIONS DURING MTA CONTRACT 2019.13.
2. THE CONTRACTOR SHALL ALLOW FOR THE AUTHORITY AND ENGINEER TO ACCESS AND READ ALL INSTRUMENTATION (I.E. SURVEY SETTLEMENT PLATFORMS AND COLLECT DATA FROM VIBRATING WIRE PIEZOMETERS AND INCLINOMETERS) UNTIL THE ENGINEER HAS DETERMINED READINGS ARE NO LONGER NECESSARY.
3. ALL INSTRUMENTATION SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. PROTECTION BARRIER FROM MTA CONTRACT 2019.13 THAT NEEDS TO BE REPLACED SHALL BE IN ACCORDANCE WITH THE PROJECT DETAILS AND SHALL BE INCIDENTAL TO ITEM 639.261 - GEOTECHNICAL INSTRUMENTATION PROTECTION AND REMOVAL INSTRUMENTS THAT BECOME INOPERABLE AS A RESULT OF THE CONTRACTOR'S WORK, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE AUTHORITY.
4. COMPLETION OF THE SURCHARGE PERIOD WILL BE DETERMINED BY THE ENGINEER BASED ON THE COLLECTION AND EVALUATION OF INSTRUMENTATION DATA AND IN-SITU UNDRAINED SHEAR STRENGTH MEASUREMENTS WITHIN THE MARINE CLAY DEPOSIT. SURCHARGE DURATIONS ARE MEASURED FROM ACCEPTANCE OF EMBANKMENT CONSTRUCTION AND MAY BE MORE OR LESS THAN THE EXPECTED DURATIONS. CONSTRUCTION AND REMOVAL OF SURCHARGE SHALL NOT BEGIN UNTIL AUTHORIZED BY THE RESIDENT. THE CONTRACTOR SHALL CONSIDER THIS INFORMATION IN THEIR BID AND IN SEQUENCING AND SCHEDULING THE WORK.
5. REMOVAL OF GEOTECHNICAL INSTRUMENTATION SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 639 AND WILL OCCUR WHEN AUTHORIZED BY THE RESIDENT AS DETERMINED BY NOTE 4.

LEGEND

- SETTLEMENT PLATFORM
- ◆ VIBRATING WIRE PIEZOMETER AND SETTLEMENT PLATFORM
- ◻ INCLINOMETER
- ⊕ DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING
- ◆ VIBRATING WIRE PIEZOMETER



Date: 1/14/2021
File name: 00X-Instrumentation Removal Plan_01.dgn



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	09\20	Checked	JRS	09\20
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
INSTRUMENTATION REMOVAL PLAN 1**

SHEET NUMBER: GT-11
291 OF 431

CONTRACT: 2021.07



LEGEND

- SETTLEMENT PLATFORM
- ◆ VIBRATING WIRE PIEZOMETER AND SETTLEMENT PLATFORM
- ▣ INCLINOMETER
- ⊕ DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING
- ◆ VIBRATING WIRE PIEZOMETER

SETTLEMENT PLATFORMS

DESIGNATION	STATION	OFFSET DISTANCE AND DIRECTION
SPE-1	410+00	11' LT.
SPE-2	412+00	17' LT.
SPE-3	452+50	9' RT.
SPE-4	414+00	5' LT.
SPE-5	1051+32	CENTERLINE
SPE-6	1051+75	CENTERLINE
SPE-7	1052+64	CENTERLINE
SPE-8	1053+50	CENTERLINE
SPE-9	1055+00	CENTERLINE
SPE-10	1057+00	16' RT.
SPE-11	351+00	10' RT.
SPE-12	301+50	CENTERLINE
SPE-13	303+50	8' LT.
SPE-14	354+00	36' RT.
SPE-15	308+00	23' LT.
SPE-16	309+50	3' RT.
SPE-17	310+50	3' RT.
SPE-18	311+00	25' LT.
SPE-19	312+00	23' LT.
SPE-20	317+06	12' LT.

PIEZOMETERS

DESIGNATION	STATION	OFFSET DISTANCE AND DIRECTION
VWP-5	1050+70	CENTERLINE
VWP-6	1051+32	CENTERLINE
VWP-7	1052+64	CENTERLINE
VWP-8	412+00	17' LT.
VWP-8R	412+00	17' LT.
VWP-9	452+50	9' RT.
VWP-10	354+00	36' RT.
VWP-11	311+00	25' LT.
VWP-12	312+00	23' LT.

INCLINOMETERS

DESIGNATION	STATION	OFFSET DISTANCE AND DIRECTION
INC-7R	1050+70	CENTERLINE
INC-7R2	1050+70	CENTERLINE
INC-8	1050+60	144' RT.
INC-9	1052+00	160' LT.
INC-10	353+50	66' LT.

HORIZONTAL MEMBERS AND DIAGONAL BRACES 1"x4" SOUND LUMBER

CORNER POSTS 2"x3"x4'-6" SOUND LUMBER

NOTE: ALL EXTERNAL SURFACES TO BE PAINTED FLUORESCENT ORANGE.

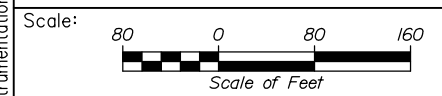
PROTECTIVE RAILING DETAIL FOR SETTLEMENT PLATFORMS AND INCLINOMETERS
N.T.S.

4' TALL CATCH BASIN BARREL SECTION (INCIDENTAL TO ITEM 639.261 - GEOTECHNICAL INSTRUMENTATION PROTECTION AND REMOVAL)

LONG TERM PROTECTION FOR SETTLEMENT PLATFORM
N.T.S.

Date: 1/14/2021

Filename: 00X-Instrumentation Removal Plan_02.dgn



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
INSTRUMENTATION REMOVAL PLAN 2

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	JRH	09\20	Checked	JRS	09\20
Drawn	ARE	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: GT-12

292 OF 431

SPECIFICATIONS

DESIGN

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION
CONSTRUCTION

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, REVISION OF NOVEMBER 2014.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS FOR HIGHWAYS AND BRIDGES, REVISION OF NOVEMBER 2014, WITH ALL REVISIONS THERETO.

AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 4TH EDITION.

DESIGN LOADING

LIVE LOAD - HL-93 MODIFIED FOR STRENGTH I

PIER CONCRETE AND PILES ARE DESIGNED FOR A 600-KIP EXTREME EVENT VEHICULAR IMPACT PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION, 2017.

MATERIALS

CONCRETE

DECK CONCRETE AND ABUTMENT TOP PLACEMENT - CLASS AAA-DECK
ALL OTHER CONCRETE SHALL BE CLASS AAA, U.O.N.

REINFORCING STEEL

AASHTO M31, GRADE 60
ALL REINFORCING SHALL BE EPOXY-COATED.

ANCHOR RODS SHALL MEET THE REQUIREMENTS OF ASTM F1554, GRADE 105 AND SHALL BE SWEDGED OR THREADED ON THE EMBEDDED PORTION OF THE ROD.

STRUCTURAL STEEL

WELDED GIRDERS: FLANGES OVER THE PIER SHALL BE AASHTO M270, GRADE HPS 70W. ALL OTHER FLANGES, WEBS, SPLICE PLATES, FILLER PLATES, CONNECTION PLATES, CROSS FRAMES AND BEARING STIFFENERS SHALL BE AASHTO M270, GRADE 50.

H-PILE MATERIAL SHALL BE ASTM A572, GRADE 50.

ALL OTHER STRUCTURAL STEEL SHALL BE AASHTO M270, GRADE 50 U.O.N.

HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325, TYPE 1.

PROTECTIVE COATING

GIRDER PLATES, INCLUDING FLANGES, WEBS, CONNECTION PLATES, BEARING STIFFENERS, FIELD SPLICE PLATES, AND INTERMEDIATE STIFFENERS, SHALL BE METALLIZED AFTER FABRICATION IN ACCORDANCE WITH SPECIAL PROVISION SECTION 506, SHOP APPLIED PROTECTIVE COATING - STEEL (THERMAL SPRAY COATING - SHOP APPLIED). CROSSFRAMES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. PAYMENT FOR METALLIZING AND/OR GALVANIZING, AS APPLICABLE, SHALL BE MADE UNDER ITEM 506.9104, THERMAL SPRAY COATING (SHOP APPLIED).

BASIC DESIGN STRESSES

CONCRETE - CLASS AAA-DECK, f'c = 4,500 P.S.I.
- CLASS AAA, f'c = 4,500 P.S.I.

REINFORCING STEEL - fy = 60,000 P.S.I.

STRUCTURAL STEEL - AASHTO M270 (ASTM 709) GRADE 50, Fy = 50,000 P.S.I., U.O.N.
- AASHTO M270 (ASTM 709) GRADE HPS 70W, Fy = 70,000 P.S.I.,

NOTES:

- COPIES OF THE AS-BUILT PLANS ARE ON FILE AT THE MAINE TURNPIKE AUTHORITY. THE COMPLETENESS AND ACCURACY OF THESE PLANS IS NOT GUARANTEED.
- REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2", UNLESS OTHERWISE NOTED.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SURVEY THE TOPS OF THE GIRDERS BEFORE DECK FORMWORK ERECTION BEGINS FOR DETERMINATION OF BLOCKING HEIGHTS. THE CONTRACTOR SHALL SUBMIT SURVEYED ELEVATIONS AND PROPOSED BLOCKING HEIGHT VALUES TO THE RESIDENT FOR APPROVAL A MINIMUM OF FIVE (5) WORKING DAYS BEFORE ERECTING DECK FORMWORK.
- ALL SUBSTRUCTURE SHEAR KEYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL 502(01).
- COVER JOINTS WHERE WATERSTOPS ARE NOT REQUIRED IN ACCORDANCE WITH 502(01).
- ALL EXPOSED CONCRETE SURFACES THAT ARE COATED WITH CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE COATED PRIOR TO CHLORIDE EXPOSURE DUE TO WINTER MAINTENANCE.

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QUANTITY TABLE



ITEM NO.	DESCRIPTION	REFERENCE QUANTITY	UNIT	STRUCTURAL QUANTITY
202.19	REMOVING EXISTING BRIDGE	500,000 LB STEEL, 750 CY CONCRETE	LS	1
203.25	GRANULAR BORROW		CY	530
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES, PLAN QUANTITY		CY	370
206.10	STRUCTURAL EARTH EXCAVATION - PIERS		CY	270
403.2081	HOT MIX ASPHALT, 12.5 MM (POLYMER MODIFIED) - RAP		TON	170
403.213	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)		TON	170
409.15	BITUMINOUS TACK COAT, APPLIED		GAL	160
501.231	DYNAMIC LOADING TEST		EA	3
501.52	STEEL H-BEAM PILES 102 LB/FT, DELIVERED		LF	3,650
501.521	STEEL H-BEAM PILES 102 LB/FT, IN PLACE		LF	3,650
501.90	PILE TIPS		EA	40
501.91	PILE SPLICES		EA	76
501.92	PILE DRIVING EQUIPMENT MOBILIZATION		LS	0.5
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	155 CY	LS	1
502.239	STRUCTURAL CONCRETE, PIERS	243 CY	LS	1
502.26	STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLAB ON STEEL BRIDGES	533 CY	LS	1
502.264	STRUCTURAL CONCRETE, PARAPET	59 CY	LS	1
502.31	STRUCTURAL CONCRETE APPROACH SLAB	160 CY	LS	1
502.452	STRUCTURAL CONCRETE DISTRIBUTION SLAB	130 CY	LS	1
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED		LB	257,000
503.15	EPOXY-COATED REINFORCING STEEL, PLACING		LB	257,000
504.702	STRUCTURAL STEEL FABRICATED AND DELIVERED, WELDED	581,000 LB	LS	1
504.71	STRUCTURAL STEEL ERECTION	581,000 LB	LS	1
505.08	SHEAR CONNECTORS	5,285 EA	LS	1
506.9104	THERMAL SPRAY COATING (SHOP APPLIED)	581,000 LB	LS	1
507.091	ALUMINUM BRIDGE RAILING, 1 BAR	548 LF	LS	1
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE	2,000 SY	LS	1
511.091	TEMPORARY EARTH SUPPORT SYSTEMS		LS	0.5
513.09	SLOPE PROTECTION - PORTLAND CEMENT CONCRETE		SY	1,020
514.06	CURING BOX FOR CONCRETE CYLINDERS		EA	1
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES		SY	895
520.23	ASPHALTIC PLUG JOINT		LF	125
523.52	BEARING INSTALLATION		EA	7
523.5401	LAMINATED ELASTOMERIC BEARINGS, FIXED		EA	7
524.40	PROTECTIVE SHIELDING - STEEL GIRDERS		SY	4,200
526.351	CONCRETE BARRIER - TYPE A	2,021 LF	LS	1
526.352	CONCRETE BARRIER - TYPE B	453 LF	LS	1
526.353	CONCRETE BARRIER - TYPE C	370 LF	LS	1
526.354	CONCRETE BARRIER - TYPE D	151 LF	LS	1
526.362	CONCRETE BARRIER - TYPE C TRANSITION BARRIER		EA	2
526.366	CONCRETE BARRIER - MEDIAN GUARDRAIL TRANSITION BARRIER		EA	2
526.367	CONCRETE BARRIER - MEDIAN B TRANSITION BARRIER		EA	2
526.368	CONCRETE BARRIER - MEDIAN C TRANSITION BARRIER		EA	1
526.369	CONCRETE BARRIER - MEDIAN D TRANSITION BARRIER		EA	1
609.15	SLOPE CURB TYPE I		LF	570

LIST OF ABBREVIATIONS

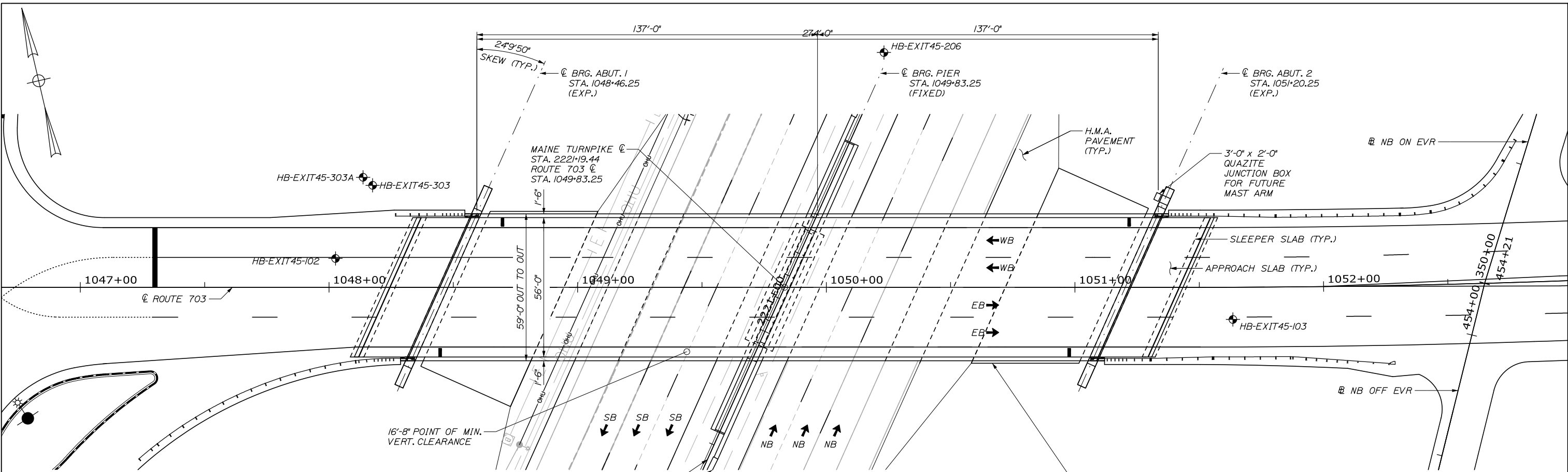
- | | | |
|-------------------------|--|---------------------------------|
| ABUT. - ABUTMENT | EXIST. - EXISTING | RDWY. - ROADWAY |
| ADDL. - ADDITIONAL | EXP. - EXPANSION | SHLDR. - SHOULDER |
| ALT. - ALTERNATE | F.F. - FAR FACE | SB - SOUTHBOUND |
| APPROX. - APPROXIMATELY | HORIZ. - HORIZONTAL | SF - SQUARE FEET |
| BOT. - BOTTOM | JT. - JOINT | SP. - SPACES |
| BRG. - BEARING | MAX. - MAXIMUM | STA. - STATION |
| CL. - CLEAR | MEDOT - MAINE DEPARTMENT OF TRANSPORTATION | T.&B. - TOP & BOTTOM |
| ℄ - CENTERLINE | MIN. - MINIMUM | TPKE. - TURNPIKE |
| CONC. - CONCRETE | MTA - MAINE TURNPIKE AUTHORITY | TYP. - TYPICAL |
| CONSTR. - CONSTRUCTION | NB - NORTHBOUND | U.O.N. - UNLESS OTHERWISE NOTED |
| C.Y. - CUBIC YARD | N.F. - NEAR FACE | VERT. - VERTICAL |
| DEMO. - DEMOLITION | N.T.S. - NOT TO SCALE | WB - WESTBOUND |
| DIA. - DIAMETER | PED. - PEDESTAL | W.P. - WORKING POINT |
| EA. - EACH | PGL - PROFILE GRADE LINE | WW - WINGWALL |
| EB - EASTBOUND | ℄ - PLATE | |
| E.F. - EACH FACE | PROP. - PROPOSED | |
| EL. - ELEVATION | P.S.I. - POUNDS per SQUARE INCH | |
| EQ. - EQUAL | | |

Date: 1/14/2021

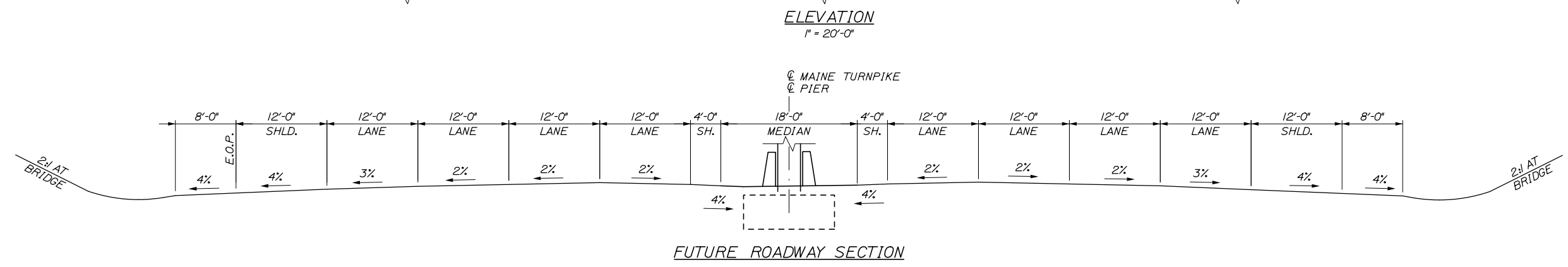
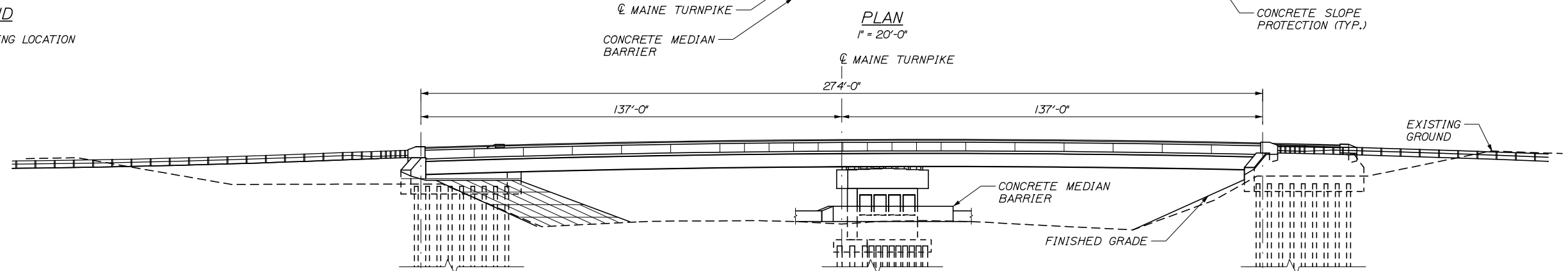
Filename: 266_General Notes, Index and Quantities.dgn

Scale: AS NOTED			Designed by:			 HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY	EXIT 45 INTERCHANGE RECONFIGURATION GENERAL NOTES, INDEX AND QUANTITIES		SHEET NUMBER: S-01
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					CONTRACT: 2021.07		
				By	Date				By	Date	293 OF 431
				Designed	HJW 09\20	Checked	KEB 09\20	MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.			
				Drawn	ECW 09\20	In Charge of	RAL 09\20				

Date: 1/14/2021



LEGEND
 ◆ BORING LOCATION




Filename: 267_General Plan and Elevation.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	HJW	09\20	
	Checked		
	KEB	09\20	
	By	Date	
	ERB	09\20	
	In Charge of		
	RAL	09\20	

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**MAINE
TURNPIKE**

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

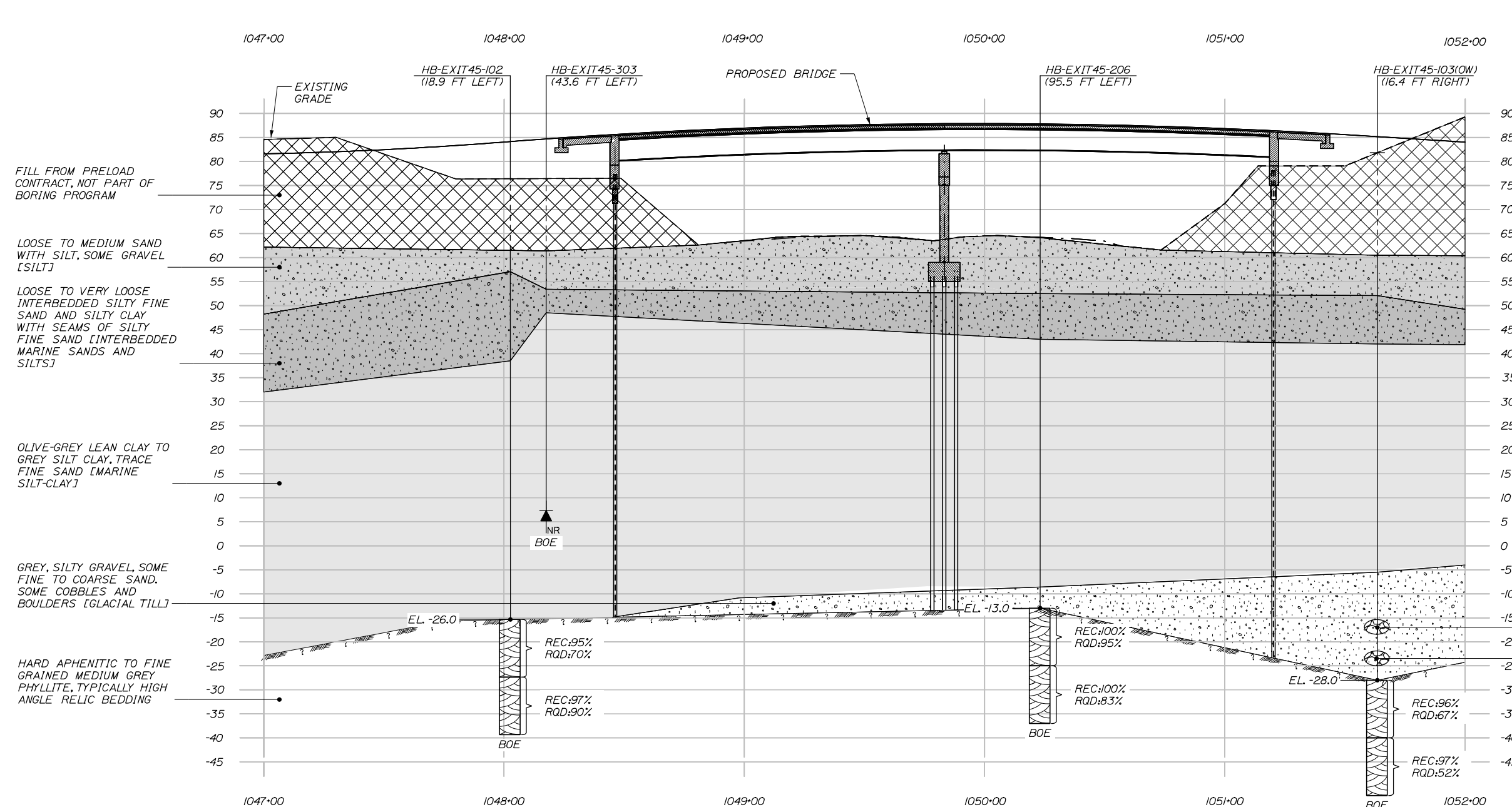
**EXIT 45
INTERCHANGE RECONFIGURATION**

GENERAL PLAN AND ELEVATION

SHEET NUMBER: S-02
 CONTRACT: 2021.07
 294 OF 431

Date: 1/14/2021

Filename: 268_Interpretive Subsurface Profile.dgn



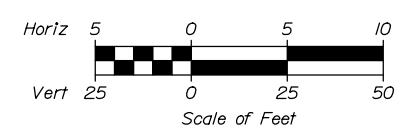
LEGEND

- BORING NO. (OFFSET)
- STRATA INTERFACE
- APPROX. TOP OF BEDROCK
- REC = RECOVERY RATION FOR ROCK CORE SAMPLE
- RQD = ROCK QUALITY DESIGNATION FOR ROCK CORE SAMPLE
- BOE = BOTTOM OF EXPLORATION
- ▲ NO REFUSAL
- ▲ REFUSAL

NOTES:

1. THIS GENERALIZED INTERPRETIVE SOIL PROFILE IS INTENDED TO CONVEY TRENDS IN SUBSURFACE CONDITIONS. THE BOUNDARIES BETWEEN STRATA ARE APPROXIMATE AND IDEALIZED, AND HAVE BEEN DEVELOPED BY INTERPRETATIONS OF WIDELY SPACED EXPLORATIONS AND SAMPLES. ACTUAL SOIL AND BEDROCK TRANSITIONS MAY VARY AND ARE PROBABLY MORE ERRATIC. FOR MORE SPECIFIC INFORMATION REFER TO THE EXPLORATION LOGS.
2. THIS INTERPRETIVE SUBSURFACE PROFILE WAS CREATED USING THE BORINGS NEAREST THE BRIDGE. SOME BORINGS ARE NOT SHOWN FOR CLARITY. REFER TO BORING LOGS FOR ADDITIONAL INFORMATION.

PROFILE



Scale:			
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No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed	HJW 09\20	Checked	JHS 09\20
Drawn	ERB 09\20	In Charge of	RAL 09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION**
 INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER: S-03
 295 OF 431

CONTRACT: 2021.07

Date: 1/14/2021

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-206. Includes logs for 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 feet depth with sample information and visual descriptions.

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-206. Includes logs for 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 feet depth with sample information and visual descriptions.

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-206. Includes logs for 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 feet depth with sample information and visual descriptions.

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-206. Includes logs for 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 feet depth with sample information and visual descriptions.

PROJECT: Preliminary Test Borings. Boring No.: HB-EXIT45-103 (OW). Includes logs for 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 feet depth with sample information and visual descriptions.

PROJECT: Preliminary Test Borings. Boring No.: HB-EXIT45-103 (OW). Includes logs for 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 feet depth with sample information and visual descriptions.

PROJECT: Preliminary Test Borings. Boring No.: HB-EXIT45-103 (OW). Includes logs for 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 feet depth with sample information and visual descriptions.

PROJECT: Preliminary Test Borings. Boring No.: HB-EXIT45-103 (OW). Includes logs for 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 feet depth with sample information and visual descriptions.

Filename: 270_Boring Log il.dgn

Scale: AS NOTED. Revision table with columns for No., Revision, By, Date. Includes designations for Designed, Checked, and Drawn.

Designed by: HNTB CORPORATION. 340 County Road, Suite 6-C Westbrook, ME 04092. TEL (207) 774-5155 FAX (207) 228-0909. CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION BORING LOGS II

CONTRACT:2021.07

SHEET NUMBER: S-05

297 OF 431

Date: 7/14/2021

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-203. Includes header, metadata, and a detailed boring log table with columns for depth, sample ID, and visual description.

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-203. Includes header, metadata, and a detailed boring log table with columns for depth, sample ID, and visual description.

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-203. Includes header, metadata, and a detailed boring log table with columns for depth, sample ID, and visual description.

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-201. Includes header, metadata, and a detailed boring log table with columns for depth, sample ID, and visual description.

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-201. Includes header, metadata, and a detailed boring log table with columns for depth, sample ID, and visual description.

PROJECT: Maine Turnpike I-95 Exit 45 Reconfiguration. Boring No.: HB-EXIT45-201. Includes header, metadata, and a detailed boring log table with columns for depth, sample ID, and visual description.

Filename: 271_Boring_Log_III.dgn

Scale: AS NOTED. Revision table with columns for No., Revision, By, and Date.

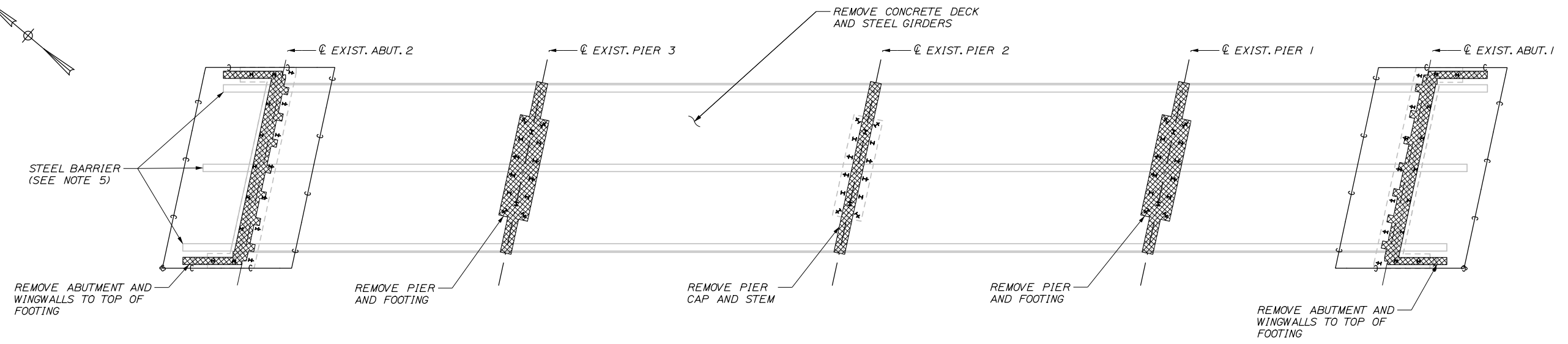
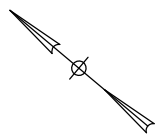
Designed by: HNTB. CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E. Includes signature lines for Design, Check, and Draw.

HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909

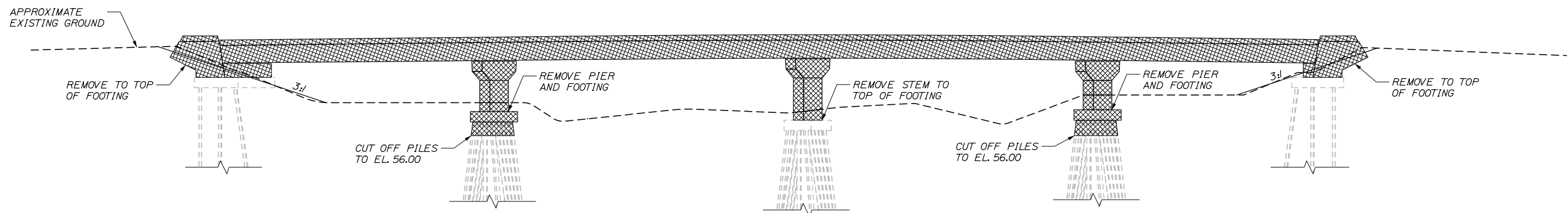
MAINE TURNPIKE THE GOLD STAR MEMORIAL HIGHWAY. MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION BORING LOGS III SHEET NUMBER: S-06 298 OF 431 CONTRACT:2021.07

Date: 1/14/2021



EXISTING BRIDGE DEMOLITION PLAN
1/16" = 1'-0"



EXISTING BRIDGE DEMOLITION ELEVATION
1/16" = 1'-0"

DEMOLITION NOTES:

1. ALL EXISTING SUBSTRUCTURES, FOUNDATIONS, AND PORTIONS OF PILES CONTAINED THEREIN SHALL BE REMOVED TO THE LIMITS IDENTIFIED ON THIS SHEET. THE RESULTING DEPRESSIONS SHALL BE BACKFILLED WITH GRAVEL BORROW AND COMPACTED TO 95% OF MAXIMUM DENSITY AND GRADED AS INDICATED ON THE BRIDGE DEMOLITION PLAN EXCEPT WHERE EXCAVATION IS REQUIRED FOR OTHER CONSTRUCTION OPERATIONS. EXCAVATION AND REMOVAL OF EXISTING FOUNDATIONS, AS WELL AS THE COST OF FURNISHING, PLACING, AND COMPACTING GRAVEL BORROW, SHALL BE INCIDENTAL TO ITEM 202.19 - "REMOVING EXISTING BRIDGE".
2. A 4" SURFACE LAYER OF LOAM AND GRASS SEED SHALL BE APPLIED TO ALL AREAS DISTURBED FOR REMOVAL OF THE ROADSIDE PIERS AND THE ABUTMENTS. PAYMENT SHALL BE INCIDENTAL TO ITEM 202.19 - "REMOVING EXISTING BRIDGE".
3. THE EXISTING PILES SHALL BE CUT OFF AT OR BELOW THE ELEVATION NOTED. CUTTING AND DISPOSAL OF THE EXISTING PILES SHALL BE INCIDENTAL TO ITEM 202.19 - "REMOVING EXISTING BRIDGE". REMOVAL BEYOND THE LIMITS SHOWN SHALL BE AT THE CONTRACTOR'S EXPENSE.

4. DAMAGE TO THE MAINLINE PAVEMENT RESULTING FROM THE CONTRACTORS DEMOLITION EFFORTS SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. DAMAGED PAVEMENT SHALL BE SAWCUT, REMOVED, AND REPLACED TO A TOTAL PAVEMENT THICKNESS MATCHING EXISTING CONDITIONS. PAYMENT SHALL BE INCIDENTAL TO ITEM 202.19 - "REMOVING EXISTING BRIDGE".
5. THE CONTRACTOR SHALL UNBOLT AND REMOVE ALL STEEL BARRIER FROM THE BRIDGE DECK AND THE APPROACHES. STEEL BARRIER SHALL BE TRANSPORTED TO THE CROSBY MAINTENANCE FACILITY AND STACKED NEATLY. STEEL BARRIER WILL REMAIN PROPERTY OF THE TURNPIKE AUTHORITY. PAYMENT SHALL BE INCIDENTAL TO ITEM 202.19 - "REMOVING EXISTING BRIDGE".
6. DEMOLITION OF THE EXISTING STRUCTURE SHALL NOT COMMENCE UNTIL THE PROPOSED BRIDGE AND RAMPS ARE COMPLETED AND OPENED FOR TRAFFIC.

Filename: 272_Bridge Demolition Plan.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	HJW	09\20		KEB	09\20
	ECW	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

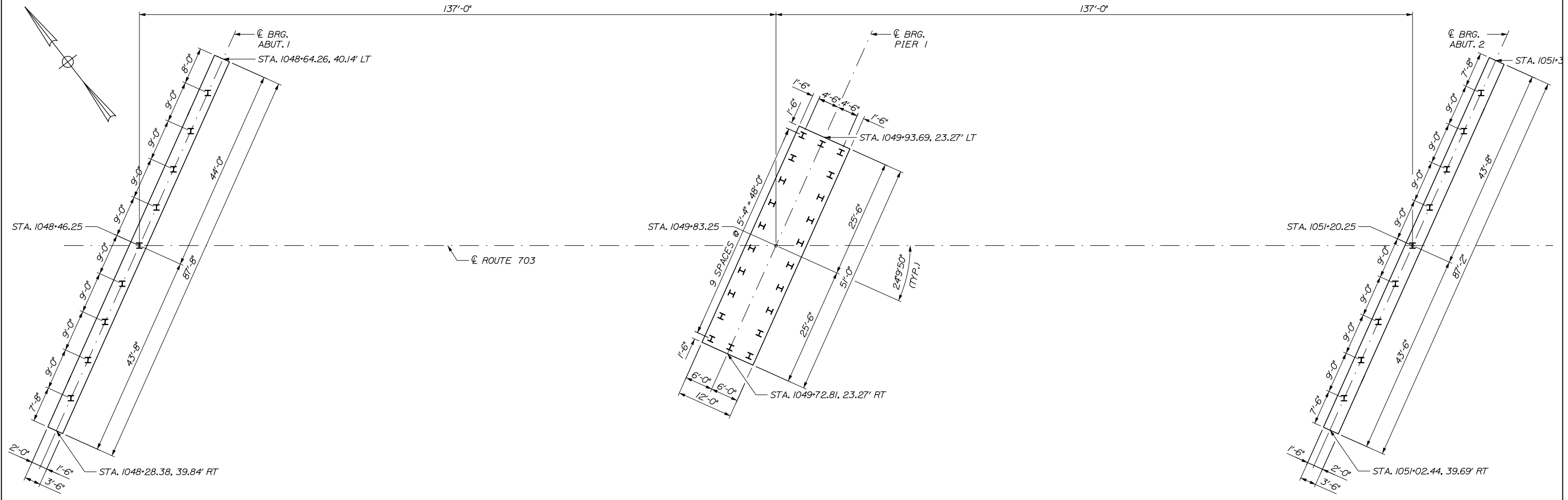
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION**

BRIDGE DEMOLITION PLAN

SHEET NUMBER: S-08
CONTRACT: 2021.07
300 OF 431

Date: 1/14/2021



FOUNDATION PLAN
 $\frac{3}{32}'' = 1'-0''$

PILE NOTES:

1. THE MAXIMUM CALCULATED FACTORED AXIAL PILE LOADS ARE:

ABUTMENTS: 511 KIPS (INCLUDING 193 KIPS ALLOWED FOR DOWNDRAW)
 PIER NO. 1: 372 KIPS

2. PILES SHALL BE DRIVEN TO THE FOLLOWING NOMINAL DRIVING RESISTANCES:

ABUTMENTS: 786 KIPS
 PIER NO. 1: 572 KIPS

3. ESTIMATE OF PILES REQUIRED:

ABUTMENT NO. 1: 9 ~ HP 14x102 @ 95 FEET (-11 MIN TIP ELEV.)
 ABUTMENT NO. 2: 9 ~ HP 14x102 @ 105 FEET (-13 MIN TIP ELEV.)
 PIER NO. 1: 22 ~ HP 14x102 @ 75 FEET (-9 MIN TIP ELEV.)

4. ALL PILES SHALL BE EQUIPPED WITH A PILE TIP IN ACCORDANCE WITH STANDARD SPECIFICATIONS SUBSECTION 501.048, PREFABRICATED PILE TIPS.

5. THE CONTRACTOR SHALL PERFORM AND SUBMIT A WAVE EQUATION ANALYSIS FOR REVIEW AND ACCEPTANCE BY THE RESIDENT. THE MAXIMUM ALLOWABLE DRIVING STRESS IS 0.90 TIMES F_y. THE SUBMITTAL ANALYSES SHALL INCLUDE THE PROPOSED STOPPING CRITERIA BASED ON THE WAVE EQUATION ANALYSIS AND THE PROPOSED DRIVING SYSTEM. THE STOPPING CRITERIA SHALL INCLUDE THE BLOWS PER INCH AND THE NUMBER OF 1-IN. INTERVALS AT WHICH PILE INSTALLATION MAY BE TERMINATED. THE COST OF PERFORMING THE WAVE EQUATION ANALYSIS WILL BE CONSIDERED INCIDENTAL TO ITEM NO. 501.92, PILE DRIVING EQUIPMENT MOBILIZATION.

6. THE CONTRACTOR SHALL PERFORM 3 DYNAMIC LOAD TESTS, ONE AT EACH SUBSTRUCTURE LOCATION, TO CONFIRM THE NOMINAL DRIVING RESISTANCES HAVE BEEN MET. THE DYNAMIC TESTS SHALL BE PERFORMED ON THE FIRST PRODUCTION PILE DRIVEN AT EACH SUBSTRUCTURE. MINIMUM 24 HOUR PILE RESTRIKES SHALL BE CONDUCTED ON ALL TEST PILES IN ORDER TO ENSURE THE REQUIRED NOMINAL RESISTANCE HAS BEEN ACHIEVED AND VERIFY PILE RELAXATION HAS NOT OCCURRED. THE CONTRACTOR MAY DRIVE PRODUCTION PILES TO THE PRELIMINARY DRIVING CRITERIA, HOWEVER PILE CUT-OFF WILL NOT BE PERMITTED UNTIL COMPLETION OF RESTRIKE TESTING AND ESTABLISHMENT OF FINAL DRIVING CRITERIA.

7. FURNISH PILES MANUFACTURED IN ACCORDANCE WITH ASTM A572 GRADE 50, WITH A MINIMUM YIELD STRENGTH OF 50 KSI.

8. PILES SHALL BE DRIVEN TO AT LEAST THE MINIMUM TIP ELEVATION SHOWN IN NOTE 3. CEASE PILE INSTALLATION AND NOTIFY THE RESIDENT IF MINIMUM TIP ELEVATION CANNOT BE REACHED.

9. WELDING OF PILES AND NONDESTRUCTIVE WELD TESTING FOR PILE SPLICES SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY D1.5 AND MAINE TURNPIKE AUTHORITY REQUIREMENTS.

10. LOCATE PILE SPLICES 30 FEET OR LOWER BELOW THE PILE CUTOFF ELEVATION AND INCLUDE PILE SPlice DETAILS IN SHOP DRAWINGS SUBMITTED TO THE RESIDENT AND APPROVED PRIOR TO PILE DRIVING.


11. THE ORIENTATION OF THE PILES SHALL BE WITHIN 10 DEGREES OF THE ORIENTATION SHOWN ON THE PLANS. ALL ABUTMENT PILES ARE ORIENTED WITH THE WEAK AXIS OF THE PILE PARALLEL TO THE LONGITUDINAL DIRECTION OF THE BRIDGE.

Filename: 273_Foundation Plan.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	HJW	09\20		KEB	09\20
	ERB	09\20	In Charge of	RAL	09\20

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MAINE
TURNPIKE

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

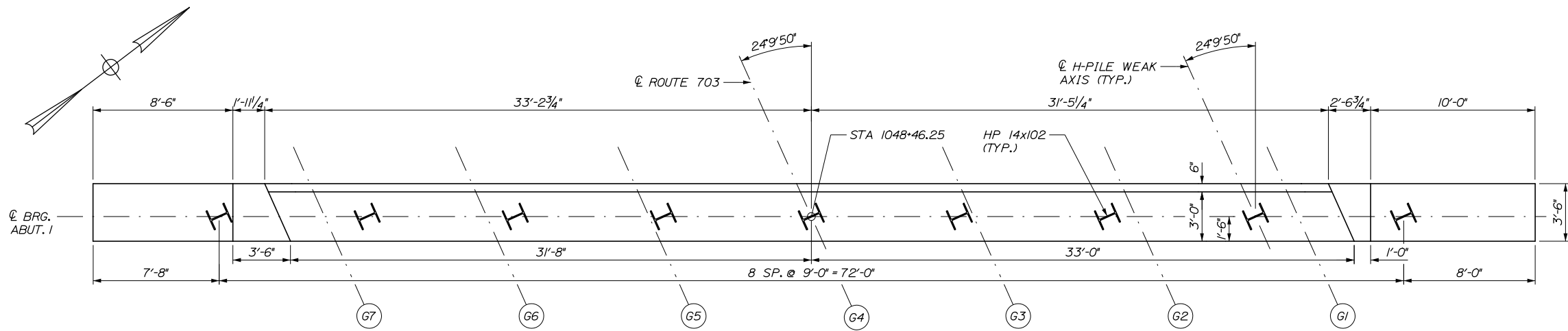
EXIT 45
INTERCHANGE RECONFIGURATION
FOUNDATION PLAN

SHEET NUMBER: S-09
CONTRACT: 2021.07
301 OF 431

ABUTMENT NOTES:

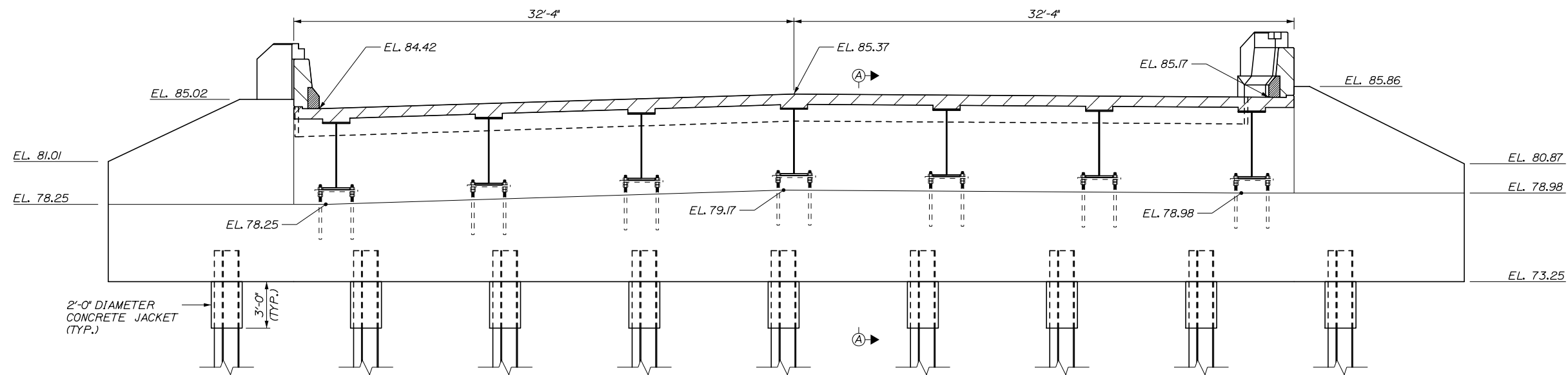
1. ALL ABUTMENT ELEVATIONS APPLY AT CENTERLINE OF BEARING.
2. PLACE 4 INCH DIAMETER DRAINS IN BREASTWALL AND WINGWALLS AT 8 FEET MAXIMUM SPACING. EXACT LOCATION TO BE DETERMINED BY THE RESIDENT.
3. PAYMENT FOR CONCRETE JACKET AROUND THE TOPS OF THE H-PILES WILL NOT BE PAID FOR DIRECTLY. PAYMENT SHALL BE INCIDENTAL TO PAY ITEM 502.219. FILL CONCRETE MAY BE USED FOR THE CONCRETE JACKETS.
4. ALL EXPOSED SURFACES OF ABUTMENT SHALL BE COATED WITH CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES, ITEM 515.202.
5. PAYMENT FOR ANCHOR RODS AND THE ANCHOR PLATE FOR THE MAST ARM FOUNDATION ON THE ABUTMENT 2 NORTH WINGWALL SHALL NOT BE PAID FOR DIRECTLY. PAYMENT SHALL BE INCIDENTAL TO PAY ITEM 502.219.
6. GREASE THE SURFACE BETWEEN THE GIRDER LEVELING PLATE AND THE ANCHOR ROD ASSEMBLY PRIOR TO ERECTING THE GIRDERS.

BOTTOM OF GIRDER ELEVATIONS							
	G1	G2	G3	G4	G5	G6	G7
ABUT. 1	79.92	79.99	80.05	80.11	79.81	79.50	79.19



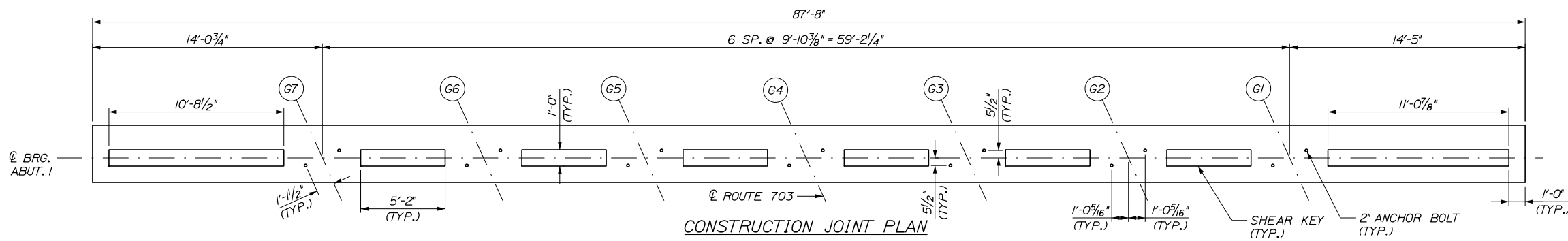
ABUTMENT 1 PLAN

1/4" = 1'-0"



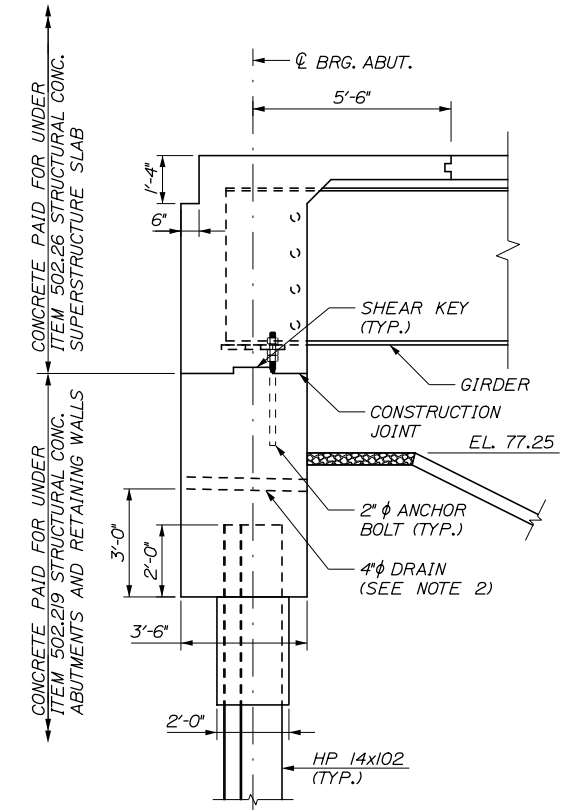
ABUTMENT 1 ELEVATION

1/4" = 1'-0"



CONSTRUCTION JOINT PLAN

1/4" = 1'-0"



SECTION A-A

3/8" = 1'-0"


Date: 1/14/2021

Filename: 274-Abutment 1 Plan and Elevation.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	HJW 09\20	Checked	KEB 09\20
Drawn	ERB 09\20	In Charge of	RAL 09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION**

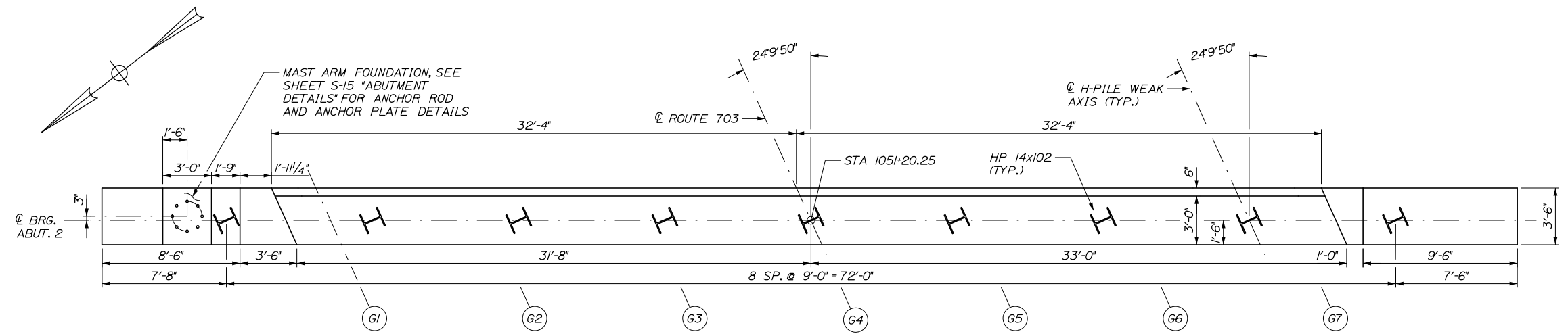
ABUTMENT 1 PLAN AND ELEVATION

SHEET NUMBER: S-10
 CONTRACT: 2021.07
 302 OF 431

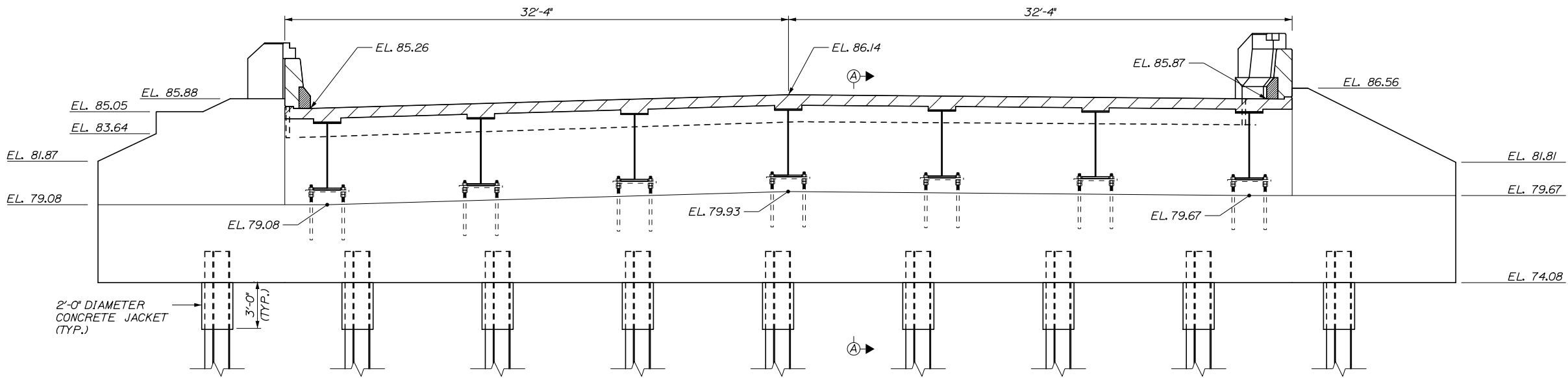
Date: 1/14/2021

Filename: 275_Abument 2 Plan and Elevation.dgn

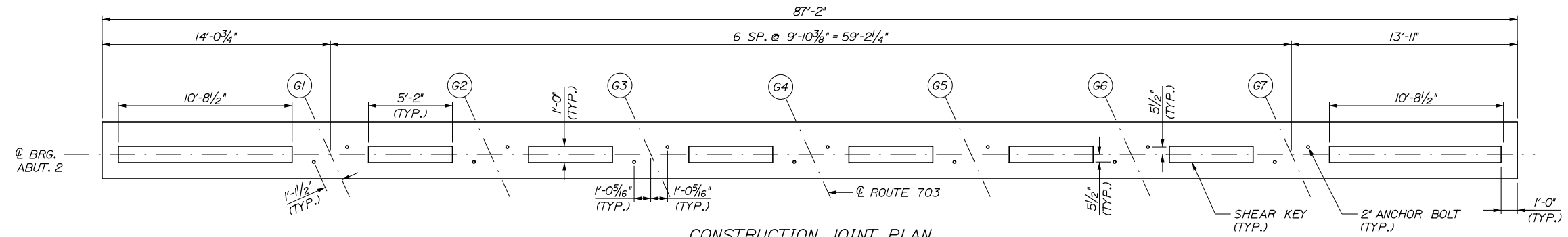
BOTTOM OF GIRDER ELEVATIONS							
	G1	G2	G3	G4	G5	G6	G7
ABUT. 2	80.03	80.32	80.60	80.88	80.80	80.71	80.62



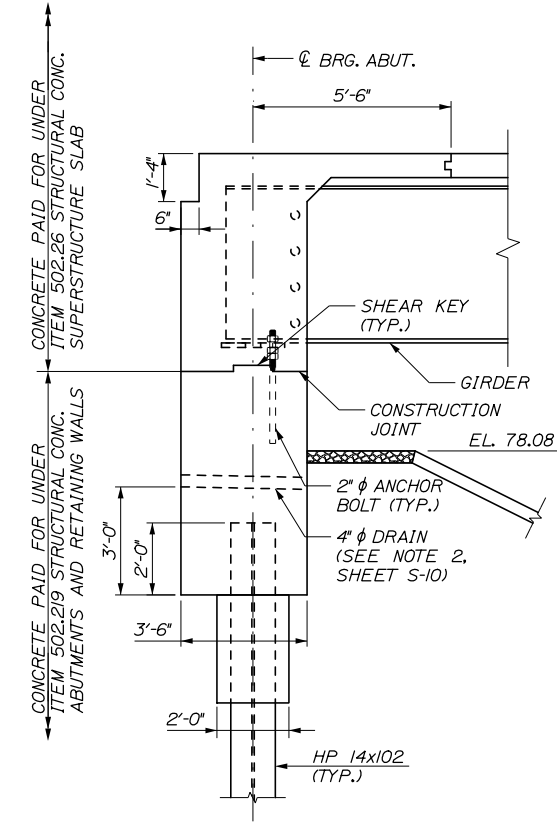
ABUTMENT 2 PLAN
1/4" = 1'-0"



ABUTMENT 2 ELEVATION
1/4" = 1'-0"



CONSTRUCTION JOINT PLAN
1/4" = 1'-0"




SECTION A-A
3/8" = 1'-0"

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	HJW	09\20	Checked KEB 09\20
Drawn	ERB	09\20	In Charge of RAL 09\20

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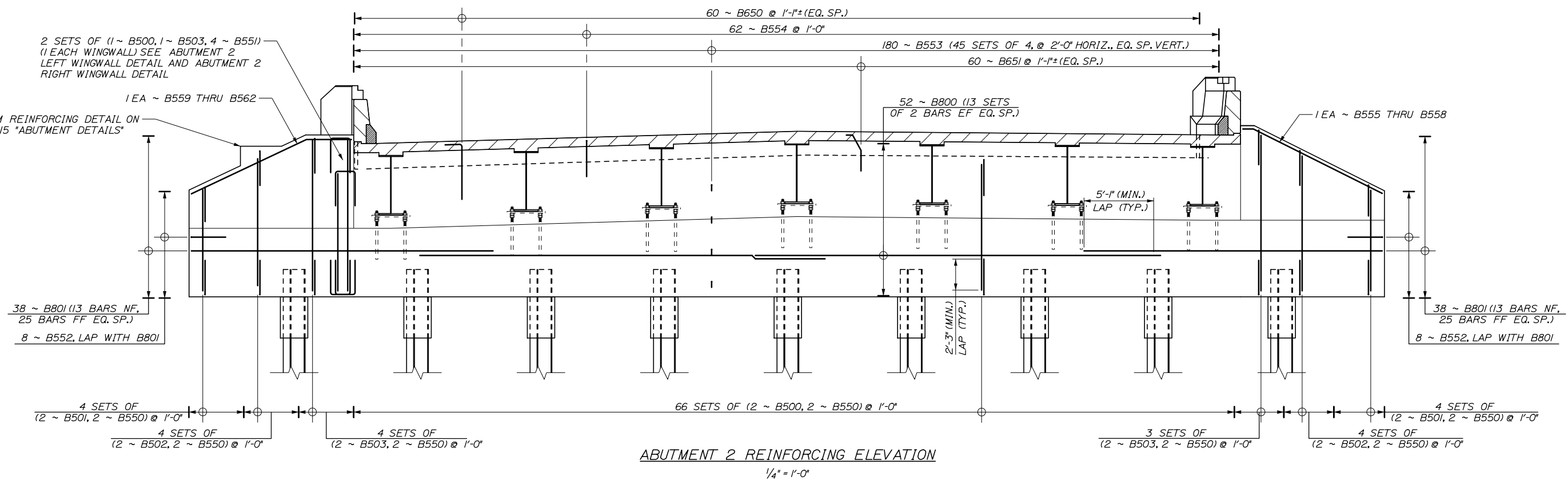
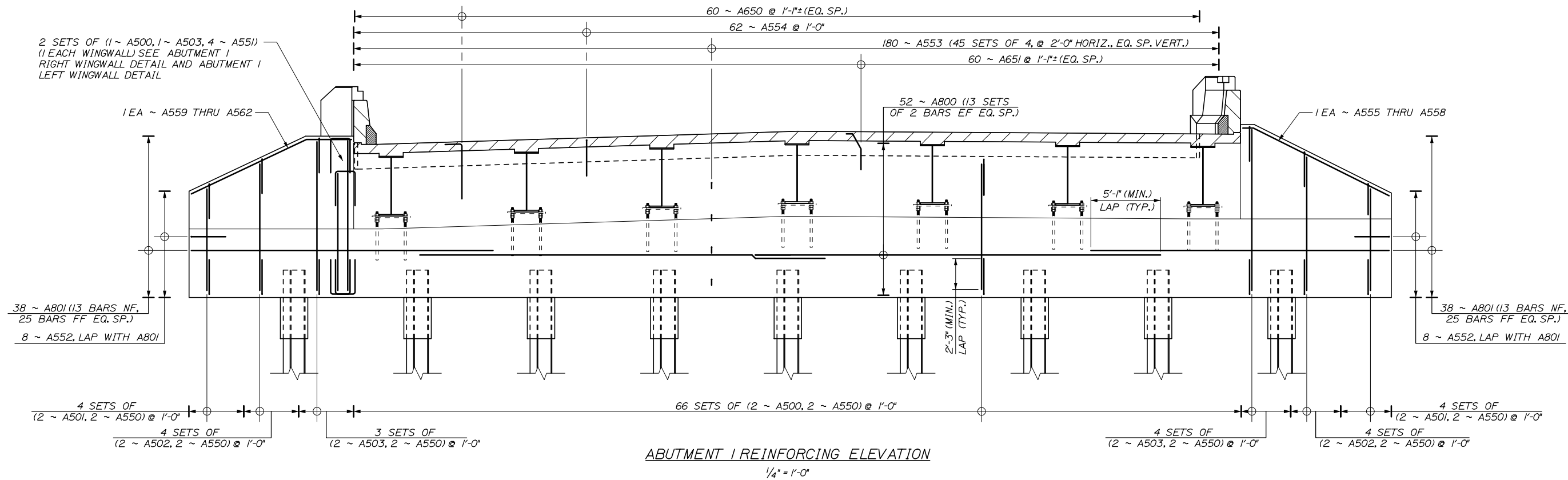
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
ABUTMENT 2 PLAN AND ELEVATION

SHEET NUMBER: S-11
CONTRACT: 2021.07
303 OF 431

Date: 1/14/2021




Filename: 276-Abutment.Reinforcing.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	Designed	HJW 09\20		Checked	KEB 09\20
	Drawn	ERB 09\20		In Charge of	RAL 09\20

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**MAINE
TURNPIKE**

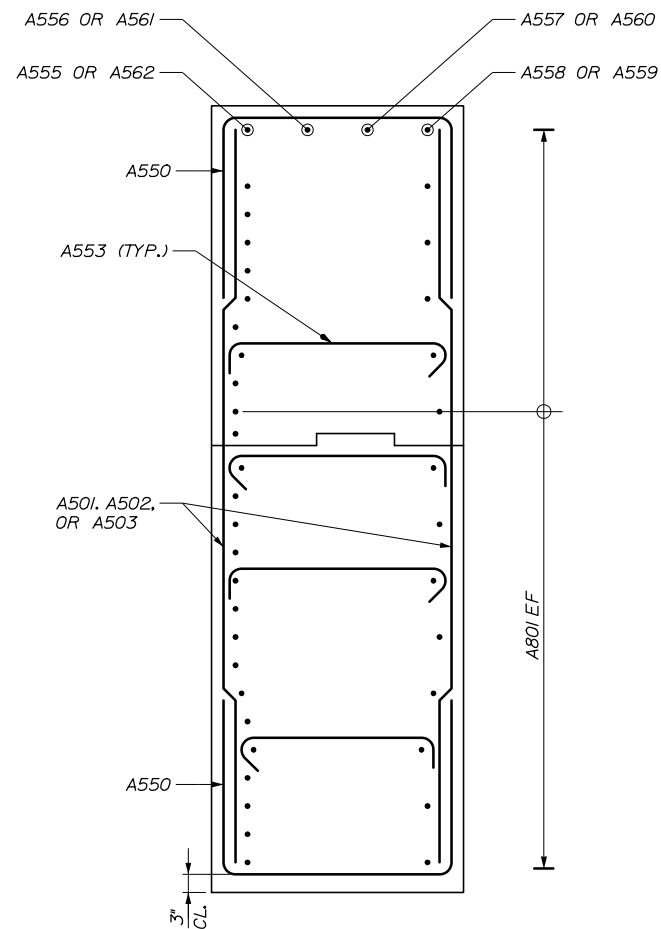
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

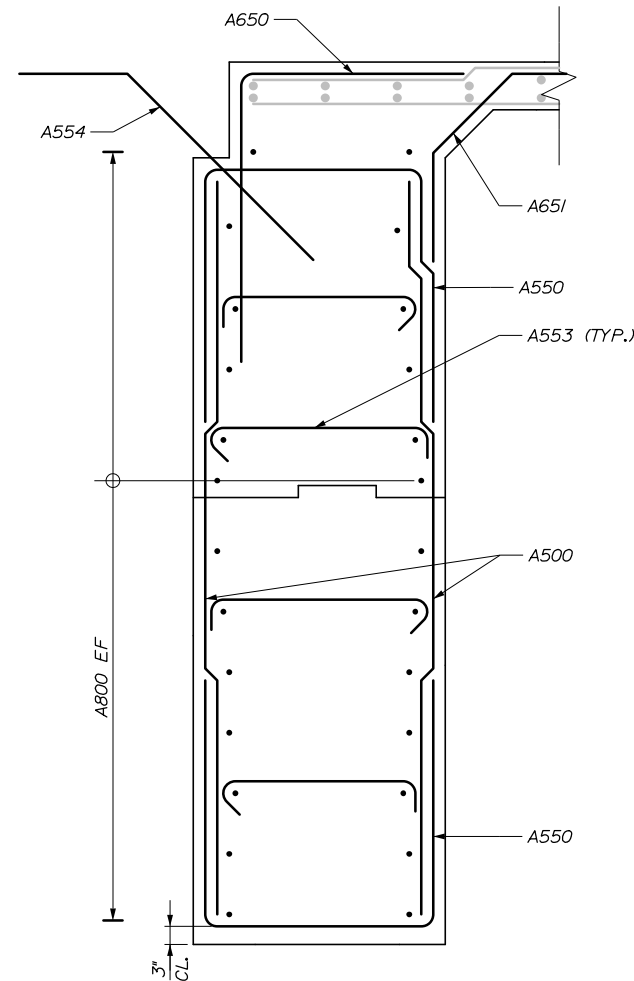
EXIT 45
INTERCHANGE RECONFIGURATION
ABUTMENT REINFORCING

SHEET NUMBER: S-12
CONTRACT: 2021.07
304 OF 431

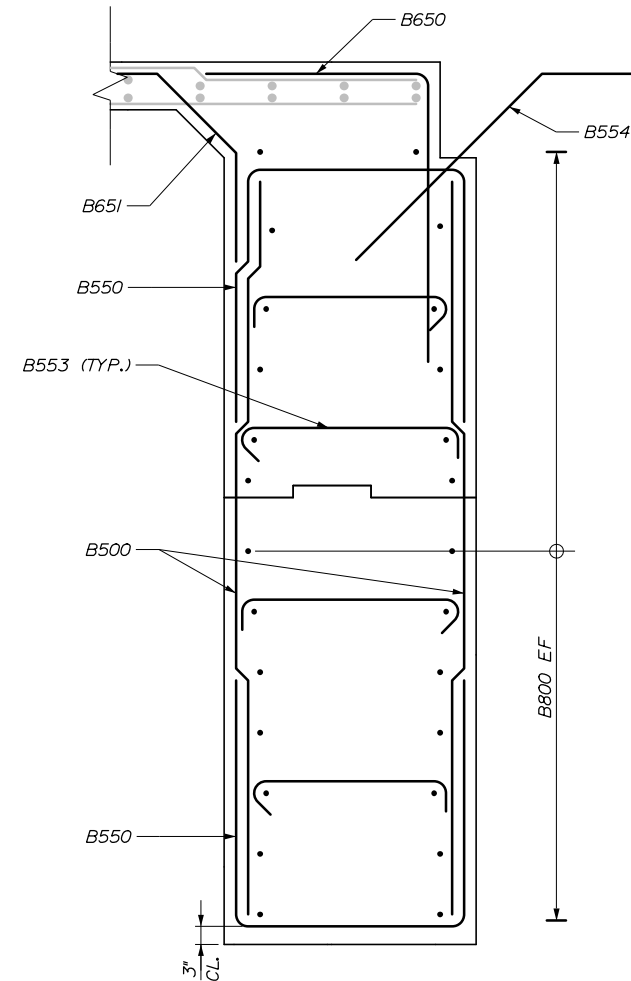
Date: 1/14/2021



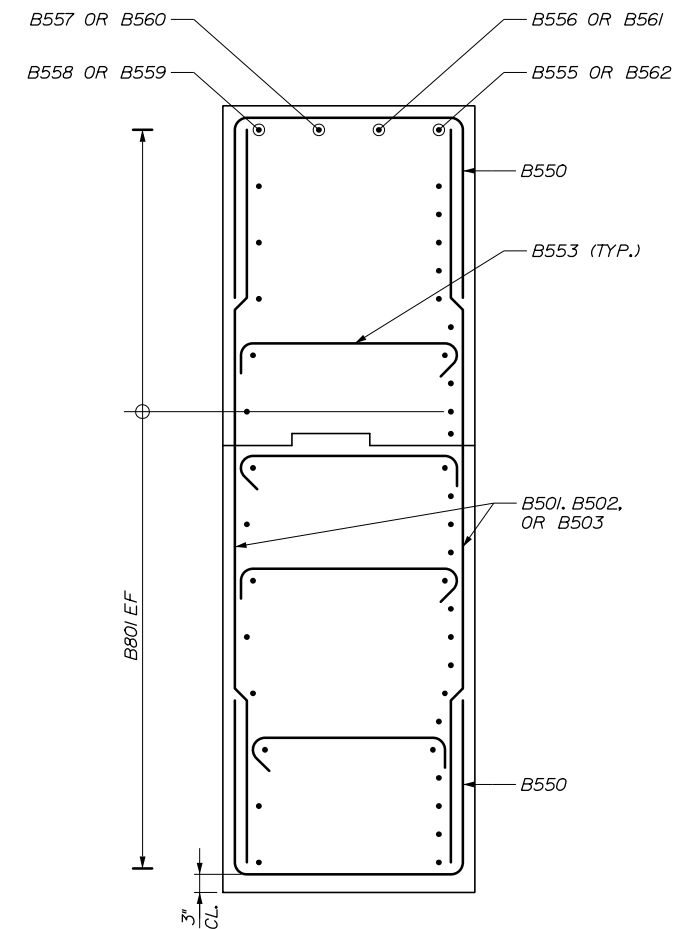
ABUTMENT 1 WINGWALL SECTION
(PILES NOT SHOWN FOR CLARITY)
3/4" = 1'-0"



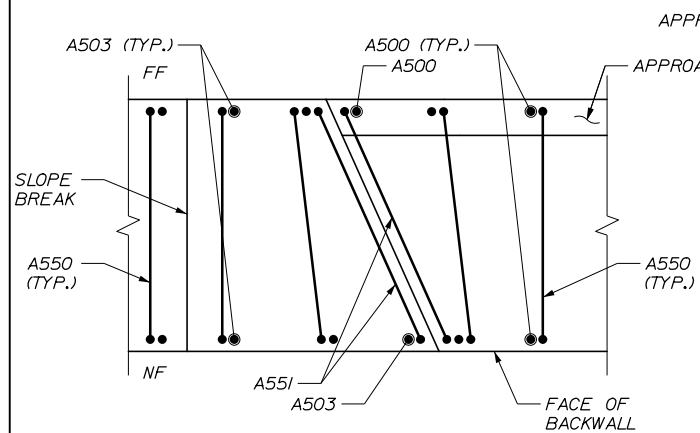
ABUTMENT 1 SECTION
(PILES NOT SHOWN FOR CLARITY)
3/4" = 1'-0"



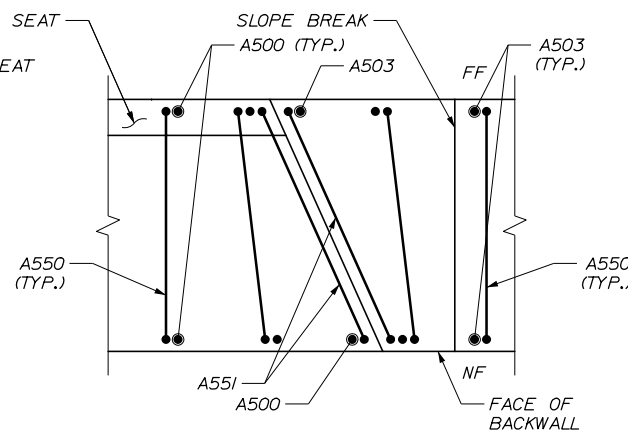
ABUTMENT 2 SECTION
(PILES NOT SHOWN FOR CLARITY)
3/4" = 1'-0"



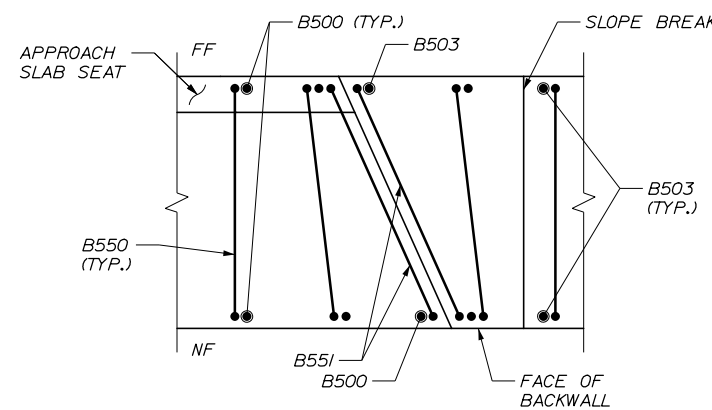
ABUTMENT 2 WINGWALL SECTION
(PILES NOT SHOWN FOR CLARITY)
3/4" = 1'-0"



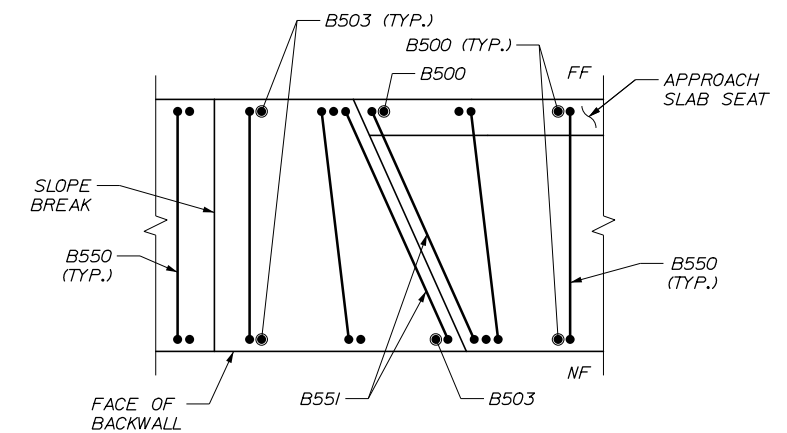
ABUTMENT 1 RIGHT WINGWALL DETAIL
3/4" = 1'-0"



ABUTMENT 1 LEFT WINGWALL DETAIL
3/4" = 1'-0"



ABUTMENT 2 RIGHT WINGWALL DETAIL
3/4" = 1'-0"



ABUTMENT 2 LEFT WINGWALL DETAIL
3/4" = 1'-0"

Filename: 277-Abutment Sections.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

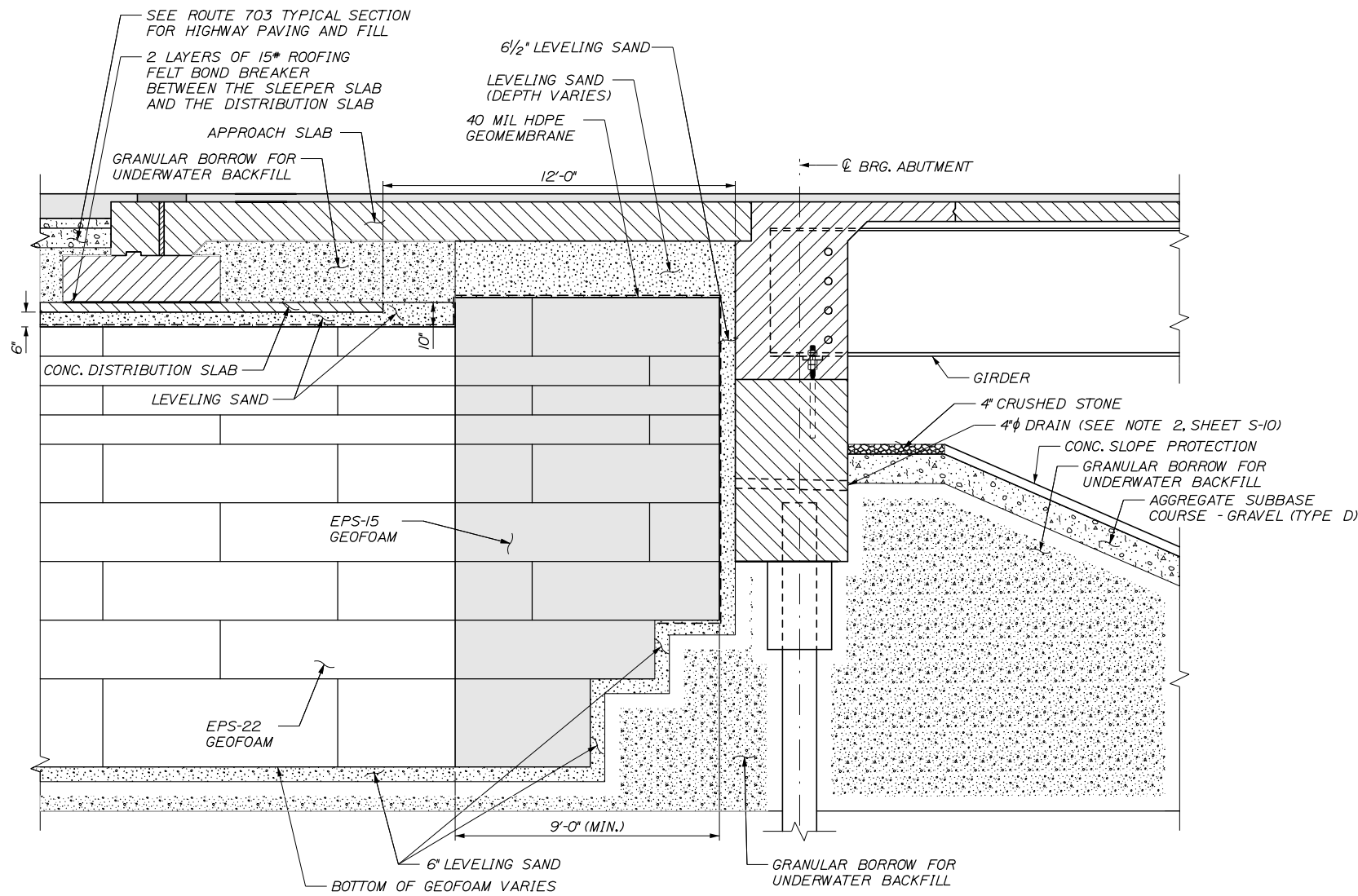
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION

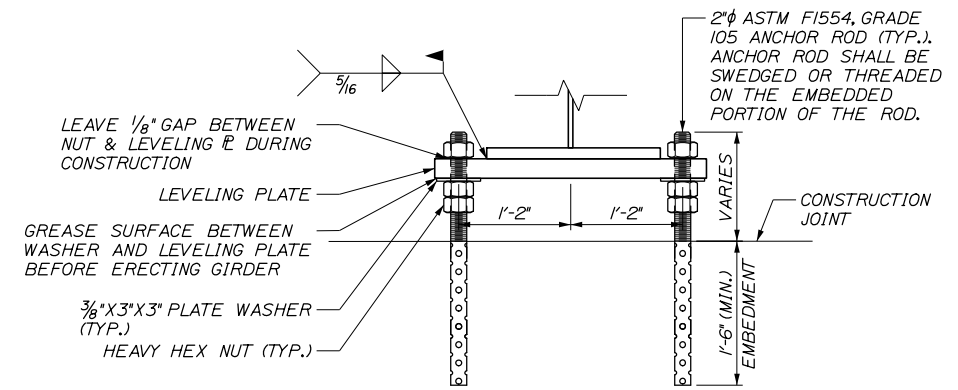
ABUTMENT SECTIONS

SHEET NUMBER: S-13
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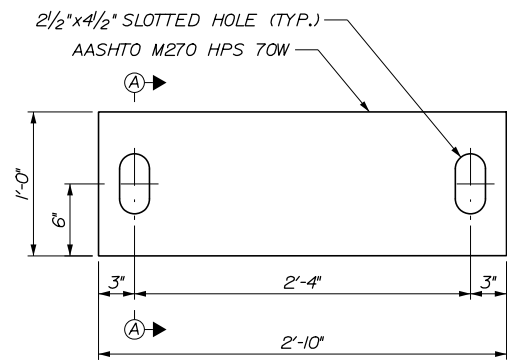
Date: 1/14/2021



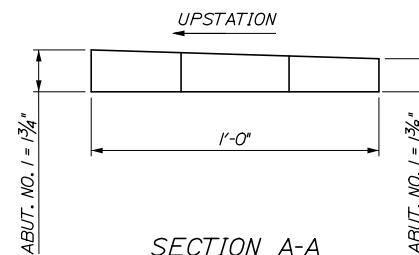
ABUTMENT GEOFOAM DETAIL
(SECTION ALONG CL OF ROUTE 703)
3/8" = 1'-0"



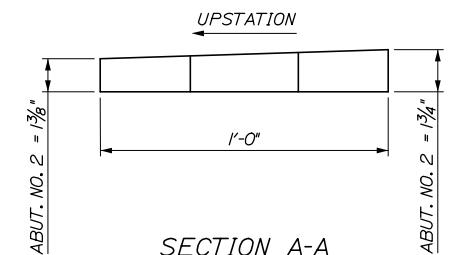
GIRDER SUPPORT DETAIL
1" = 1'-0"



LEVELING PLATE
1/2" = 1'-0"



SECTION A-A
3" = 1'-0"



SECTION A-A
3" = 1'-0"

Filename: 278_Abutment Details 1.dgn

Scale: AS NOTED

Designed by:



CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date
Designed	HJW	09\20	Checked	KEB 09\20
Drawn	ERB	09\20	In Charge of	RAL 09\20

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION**

ABUTMENT DETAILS I

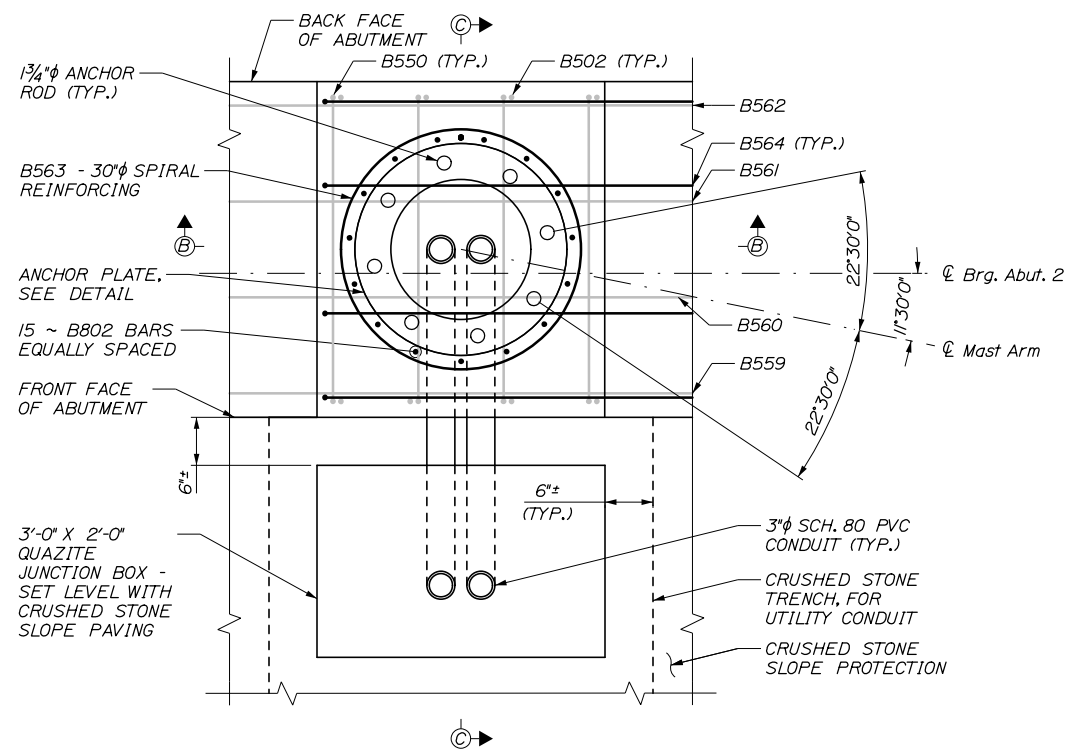
CONTRACT: 2021.07

SHEET NUMBER: S-14

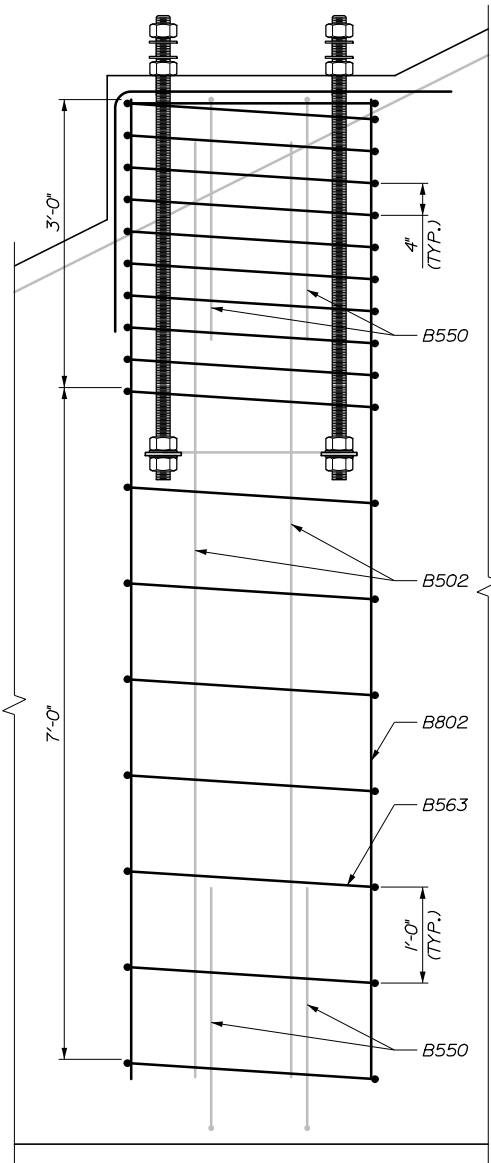
306 OF 431

Date: 1/14/2021

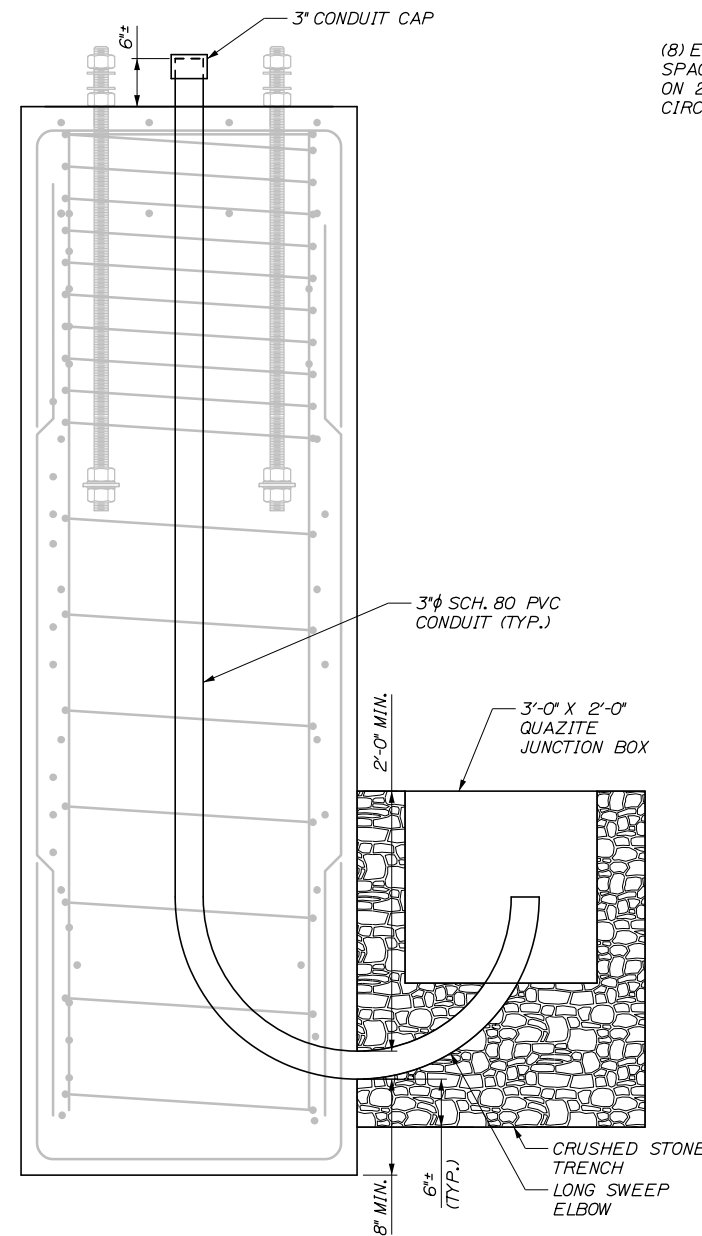
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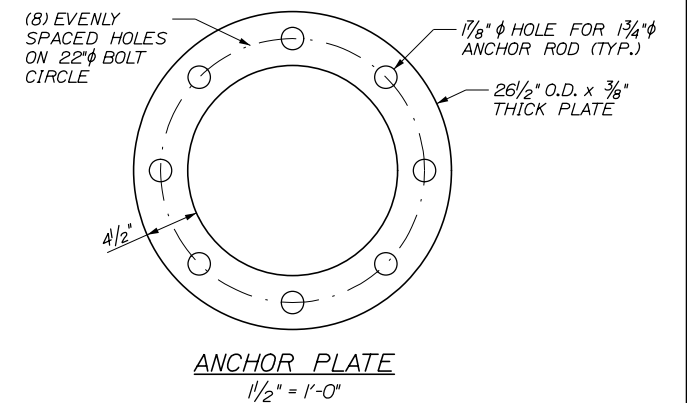
MAST ARM PEDESTAL PLAN
 ABUTMENT REINFORCING SHOWN
 SCREENED FOR CLARITY
 1" = 1'-0"



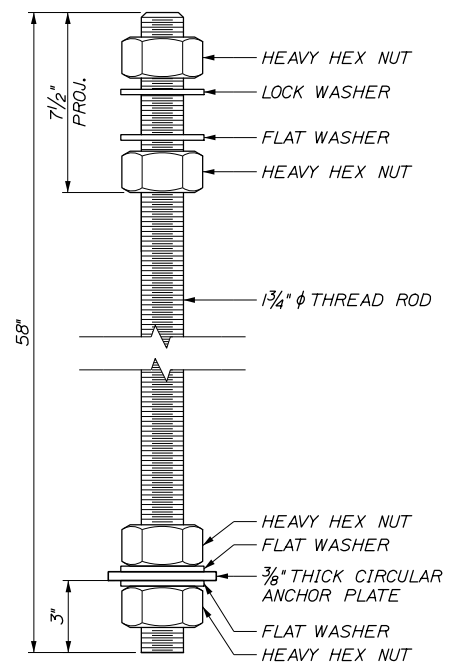
SECTION B-B
 ABUTMENT REINFORCING SHOWN
 SCREENED FOR CLARITY,
 CONDUIT NOT SHOWN FOR CLARITY
 1" = 1'-0"



SECTION C-C
 REINFORCING SHOWN
 SCREENED FOR CLARITY
 1" = 1'-0"



ANCHOR PLATE
 1/2" = 1'-0"



ANCHOR DETAIL
 3" = 1'-0"

Scale: AS NOTED			
No.	Revision	By	Date

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HNTB			
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	By	Date	
Designed	HJW	09\20	Checked KEB 09\20
Drawn	ERB	09\20	In Charge of RAL 09\20

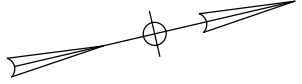
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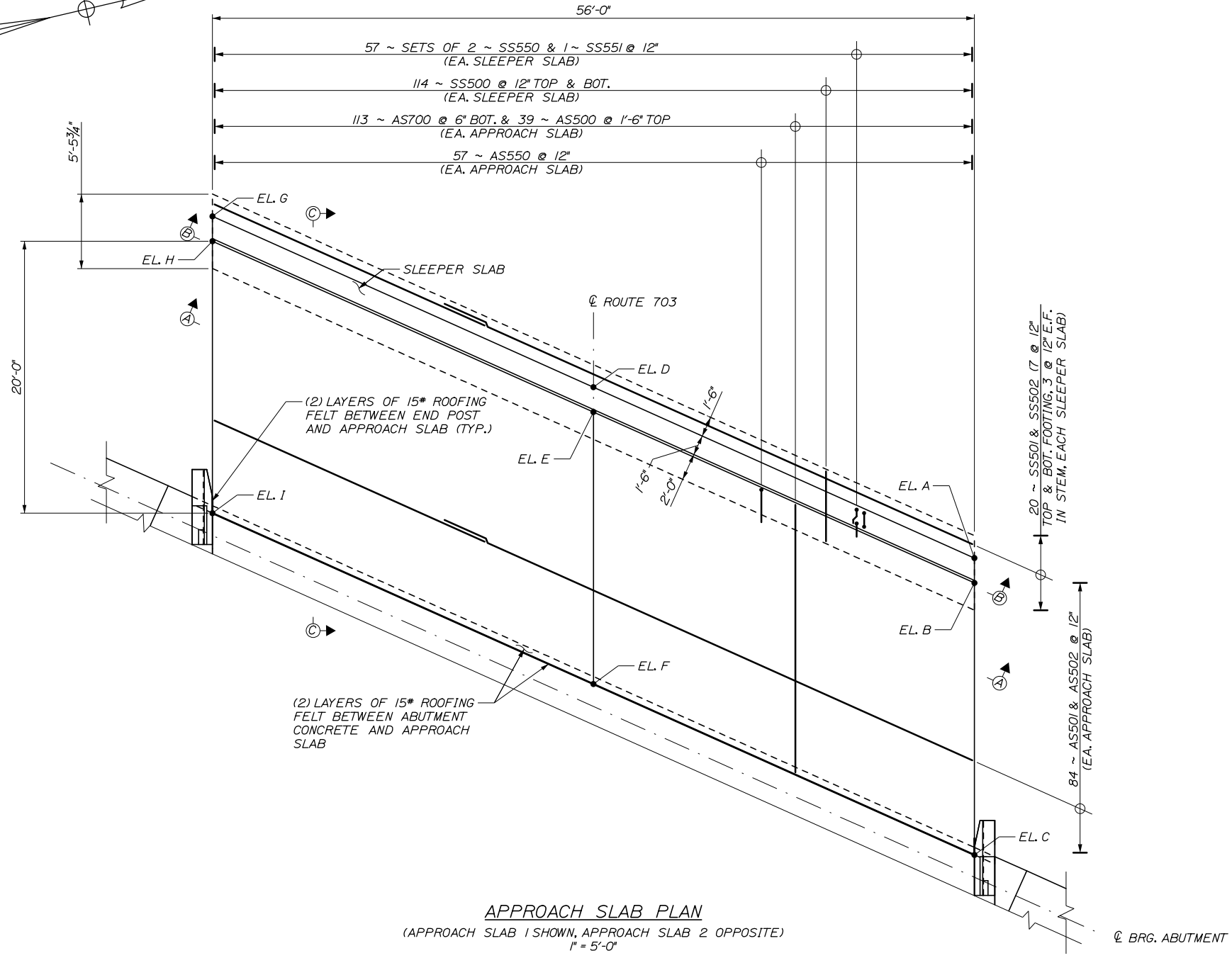
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 ABUTMENT DETAILS II

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 CONTRACT: 2021.07
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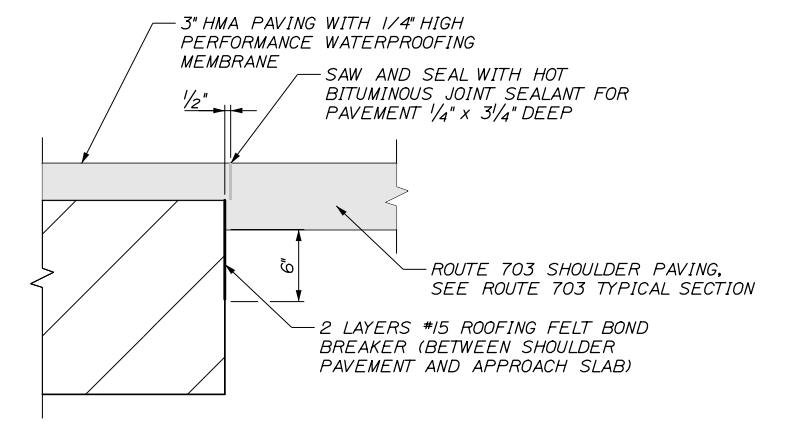
Date: 1/14/2021



APPROACH SLAB PLAN
(APPROACH SLAB 1 SHOWN, APPROACH SLAB 2 OPPOSITE)
1" = 5'-0"

TOP OF APPROACH SLAB ELEVATIONS			
CALLOUT	FEATURE	APPROACH SLAB 1 ELEVATION	APPROACH SLAB 2 ELEVATION
A	SLEEPER SLAB - LEFT GUTTER	84.47	84.58
B	APPROACH SLAB, SLEEPER END - LEFT GUTTER	84.53	84.64
C	APPROACH SLAB, ABUTMENT END - LEFT GUTTER	85.13	85.22
D	SLEEPER SLAB - CROWN LINE	84.62	85.52
E	APPROACH SLAB, SLEEPER END - CROWN LINE	84.68	85.57
F	APPROACH SLAB, ABUTMENT END - CROWN LINE	85.32	86.10
G	SLEEPER SLAB - RIGHT GUTTER	83.61	85.31
H	APPROACH SLAB, SLEEPER END - RIGHT GUTTER	83.67	85.35
I	APPROACH SLAB, ABUTMENT END - RIGHT GUTTER	84.37	85.83

- NOTES:**
- PRECOMPRESSED CLOSED CELL FOAM INSTALLED BETWEEN THE SLEEPER SLAB STEM AND THE END OF THE APPROACH SLAB SHALL HAVE AN UNCOMPRESSED THICKNESS OF 3" OR GREATER, AND MUST BE CERTIFIED BY THE MANUFACTURER TO BE COMPRESSIBLE TO A THICKNESS OF 1" OR SMALLER.
 - 16D GALVANIZED CENTERING NAILS SHALL BE SPACED AT A MAXIMUM OF 12" O.C. MAXIMUM.
 - THE ASPHALTIC PLUG JOINTS SHALL HAVE A MINIMUM TOTAL MOVEMENT OF 1.6" (0.8") AND SHALL BE INSTALLED WHEN THE STRUCTURE TEMPERATURE IS BETWEEN 40 DEG. F. AND 60 DEG. F.
 - ASPHALTIC PLUG JOINTS SHALL EITHER BE MATRIX 501 MANUFACTURED BY CRAFCO, THORMA-JOINT, MANUFACTURED BY DYNAMIC SURFACE APPLICATIONS, OR APPROVED EQUAL CERTIFIED BY THE MANUFACTURER TO MEET THE DESIGN JOINT THERMAL MOVEMENT IN NOTE 3.
 - ASPHALT PLUG JOINTS SHALL BE INSTALLED AFTER THE FINAL LIFT OF PAVEMENT IS INSTALLED. CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGING THE MEMBRANE DURING JOINT INSTALLATION AS OUTLINED IN SPECIAL PROVISION SECTION 520.
 - ASPHALTIC PLUG JOINT MATERIALS SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - ALL COSTS RELATED TO PRECOMPRESSED CLOSED CELL FOAM, ROOFING FELT, AND POLYETHYLENE SHEET WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO PAY ITEM 502.31, STRUCTURAL CONCRETE APPROACH SLAB.
 - THE BRIDGING PLATES SHALL FULLY BEAR ON THE APPROACH SLAB AND THE SLEEPER SLAB SURFACES WITHOUT ROCKING.
 - SECTION A-A, B-B, AND SECTION C-C ARE ON SHEET "APPROACH SLAB DETAILS II".

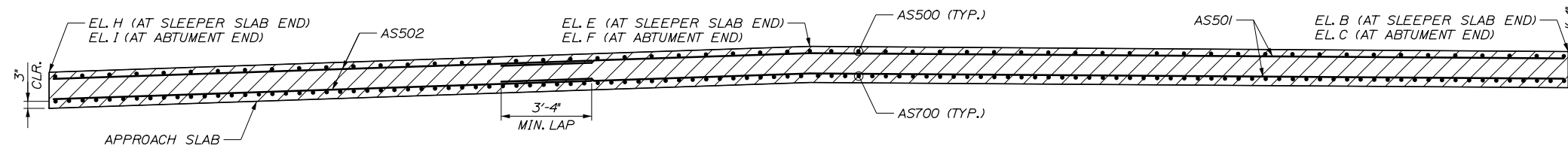


APPROACH SLAB EDGE PAVEMENT DETAIL
1/2" = 1'-0"

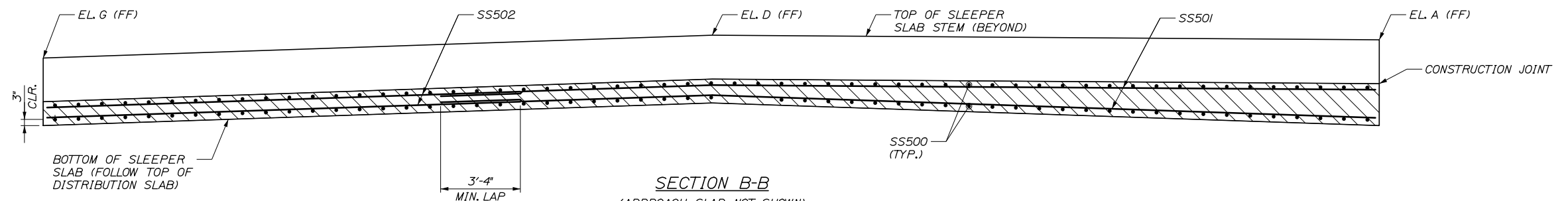
Filename: 279-Approach Slab Plan.dgn

Scale: <p style="text-align: center;">AS NOTED</p>	Designed by: <div style="text-align: center; font-size: 2em; font-weight: bold;">HNTB</div>	HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909	 <div style="font-size: 1.2em; font-weight: bold;">THE GOLD STAR MEMORIAL HIGHWAY</div>	EXIT 45 INTERCHANGE RECONFIGURATION APPROACH SLAB DETAILS I																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Revision	By	Date									CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>HJW 09\20</td> <td>Checked</td> <td>KEB 09\20</td> </tr> <tr> <td>Drawn</td> <td>ERB 09\20</td> <td>In Charge of</td> <td>RAL 09\20</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	HJW 09\20	Checked	KEB 09\20	Drawn	ERB 09\20	In Charge of	RAL 09\20	SHEET NUMBER: S-16 CONTRACT: 2021.07	
No.	Revision	By	Date																										
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Designed	HJW 09\20	Checked	KEB 09\20																										
Drawn	ERB 09\20	In Charge of	RAL 09\20																										
			MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.	308 OF 431																									

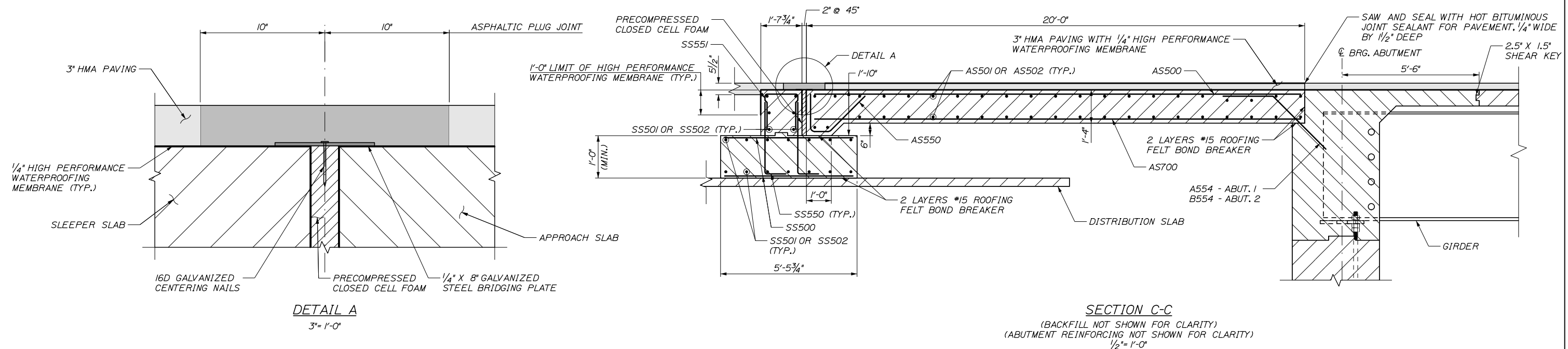
Date: 1/14/2021



SECTION A-A
3/8" = 1'-0"



SECTION B-B
(APPROACH SLAB NOT SHOWN)
3/8" = 1'-0"



SECTION C-C
(BACKFILL NOT SHOWN FOR CLARITY)
(ABUTMENT REINFORCING NOT SHOWN FOR CLARITY)
1/2" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date


Designed by:

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	By	Date		By	Date
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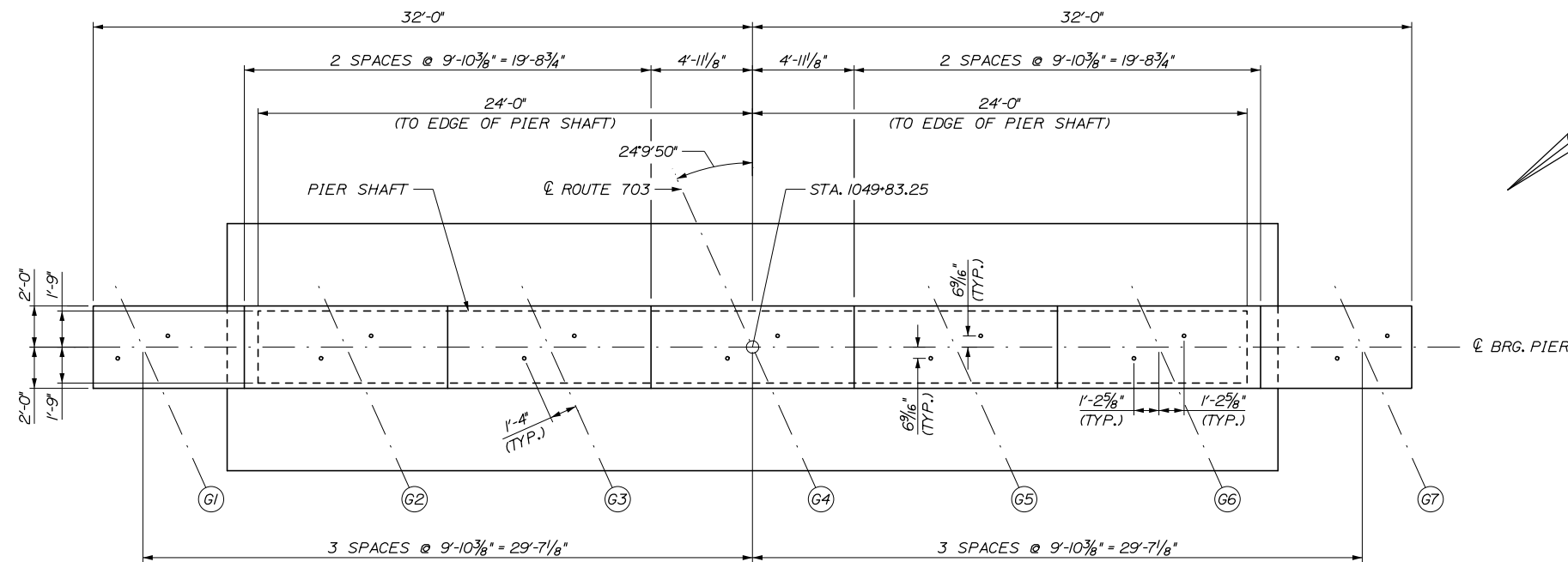
EXIT 45
INTERCHANGE RECONFIGURATION
APPROACH SLAB DETAILS II

SHEET NUMBER: S-17
309 OF 431

CONTRACT: 2021.07

Filename: 280_Approach Slab_Details.dgn

Date: 1/14/2021

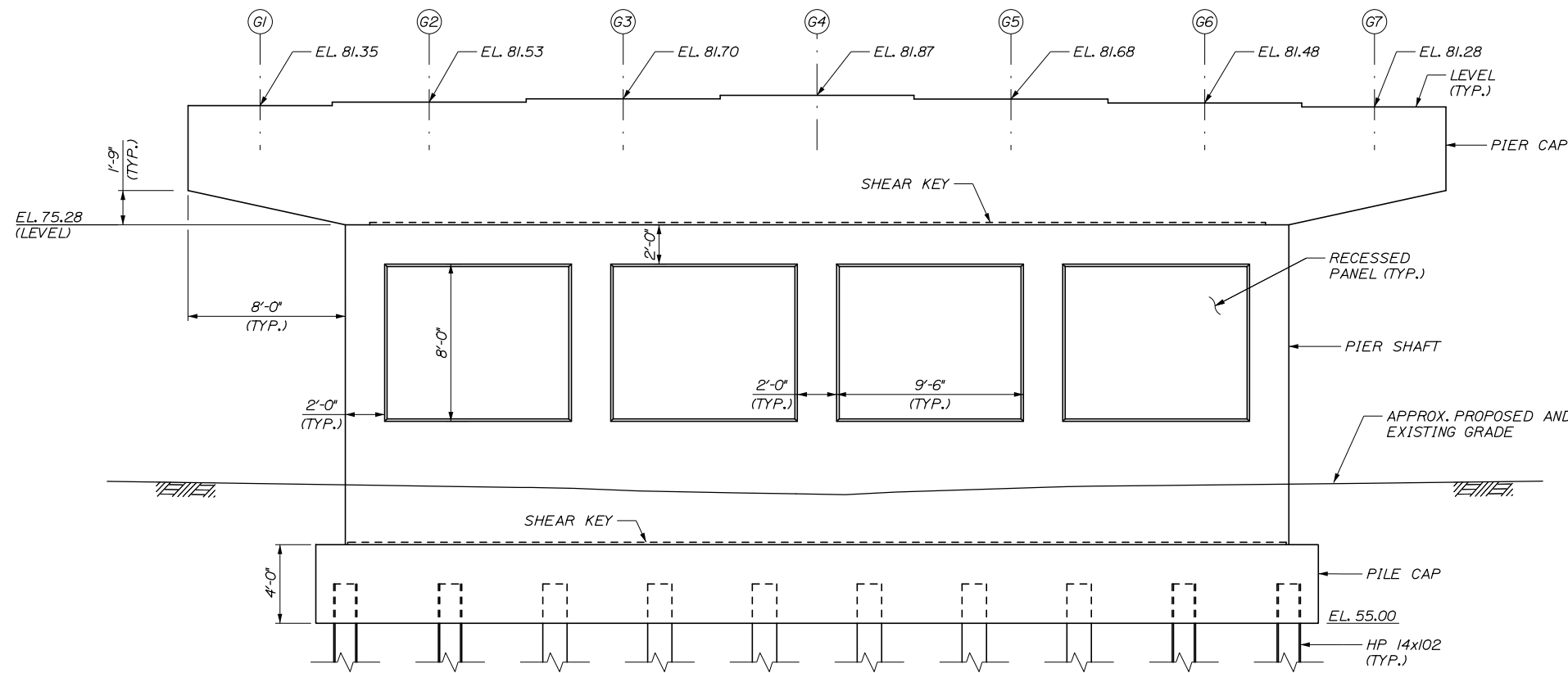


PIER NOTES:

1. ALL EXPOSED PIER SURFACES SHALL BE COATED WITH CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES, AFTER CONSTRUCTION IS COMPLETED AND CONCRETE HAS CURED.
2. PIER REINFORCING STEEL SHALL HAVE 3 INCHES MINIMUM COVER UNLESS OTHERWISE NOTED. BOTTOM MAT OF REINFORCING STEEL WITHIN THE PILE CAPS SHALL HAVE 4 INCHES MINIMUM COVER.

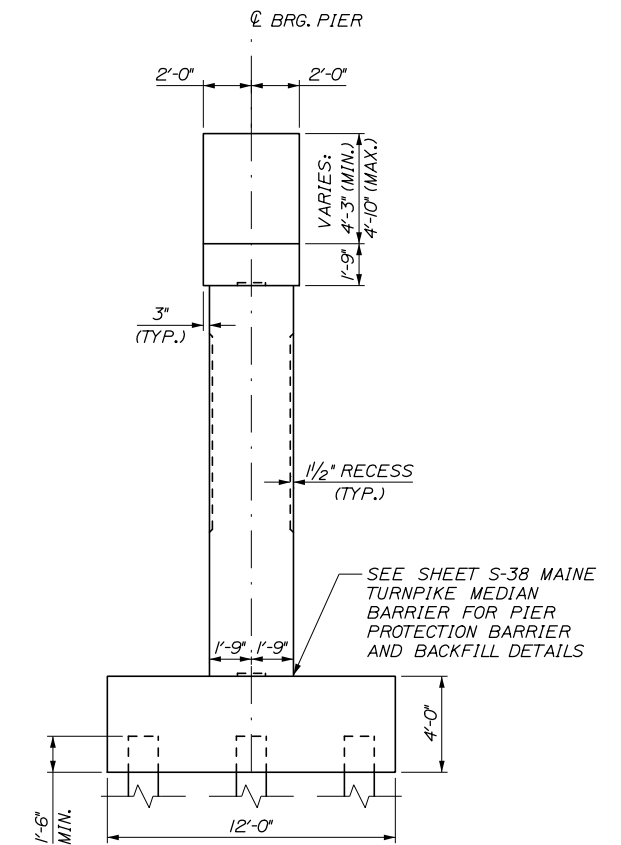
PLAN

(PILES NOT SHOWN FOR CLARITY)
1/4" = 1'-0"



ELEVATION

BARRIER NOT SHOWN FOR CLARITY
1/4" = 1'-0"



SIDE ELEVATION

1/4" = 1'-0"

Filename: 281_Pier Plan and Elevation.dgn

Scale: AS NOTED

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**EXIT 45
INTERCHANGE RECONFIGURATION**

PIER PLAN AND ELEVATION

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed HJW	09\20	Checked KEB	09\20
Drawn ECW	09\20	In Charge of RAL	09\20

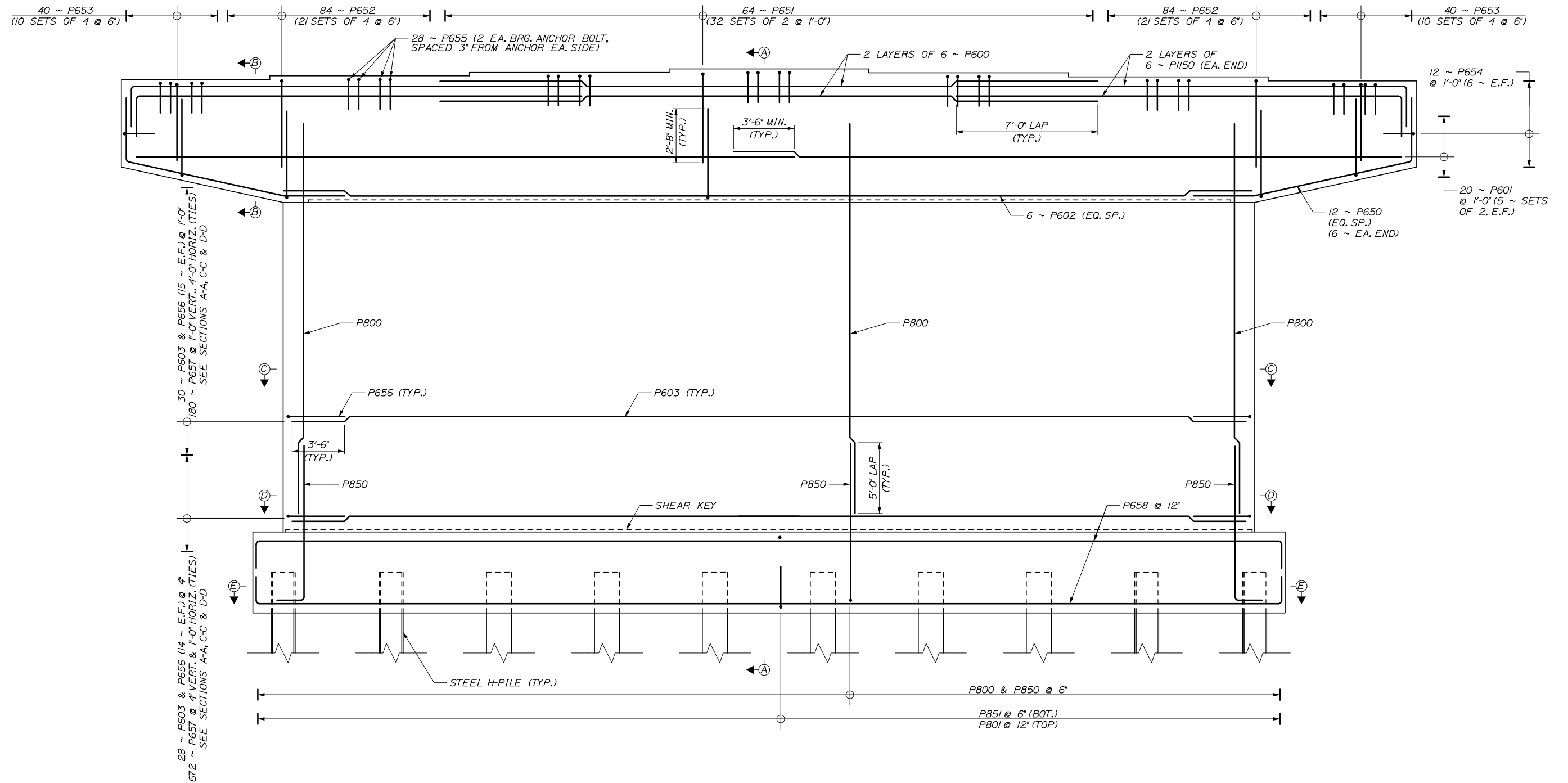
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: S-18

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Date: 1/14/2021



PIER REINFORCING ELEVATION
 (RECESSED PANELS ON PIER STEM NOT SHOWN FOR CLARITY)
 3/8" = 1'-0"

Filename: 282_Pier Reinforcing.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
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Drawn	ECW	09\20	In Charge of	RAL	09\20

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MEMORIAL HIGHWAY**

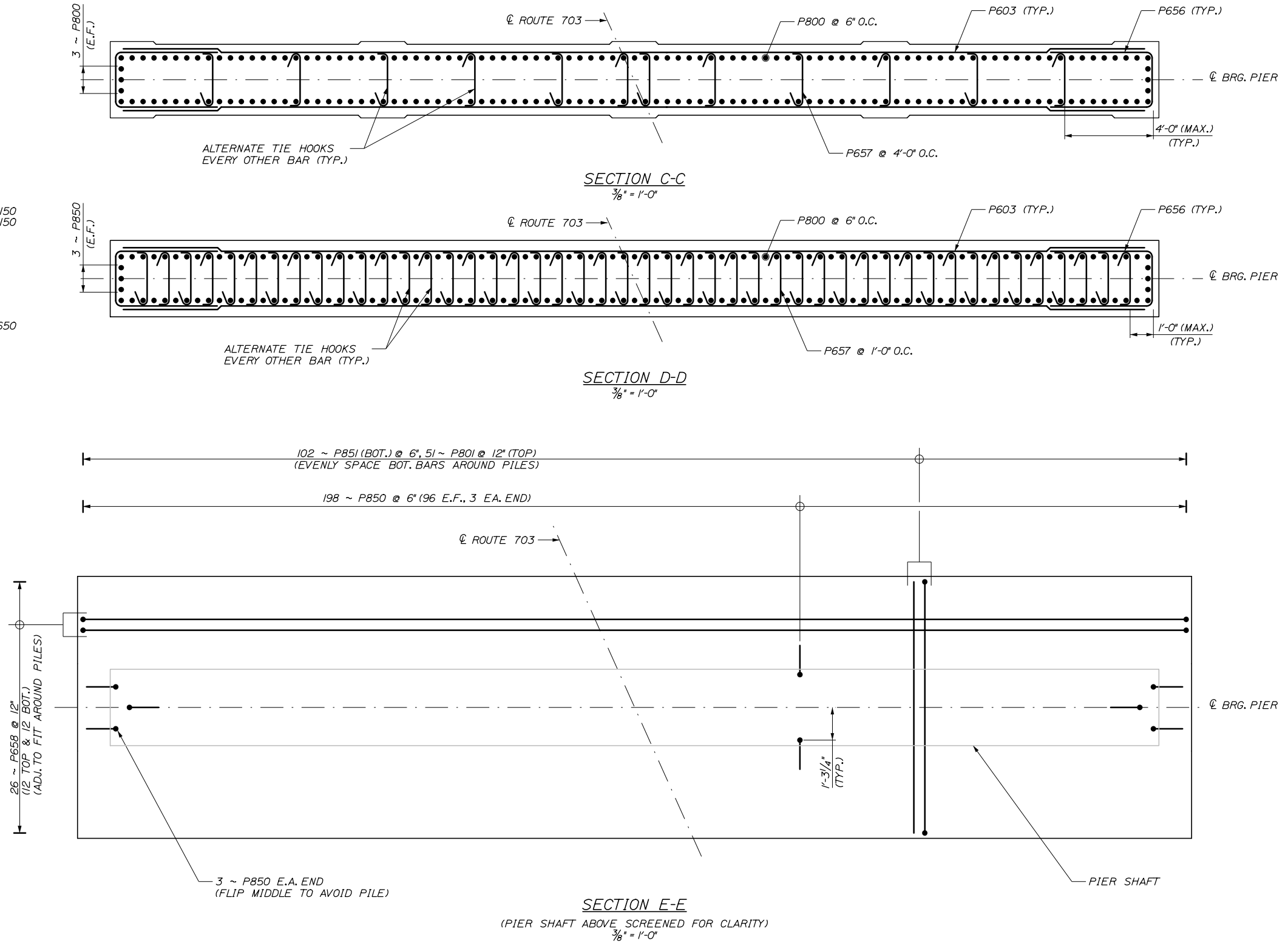
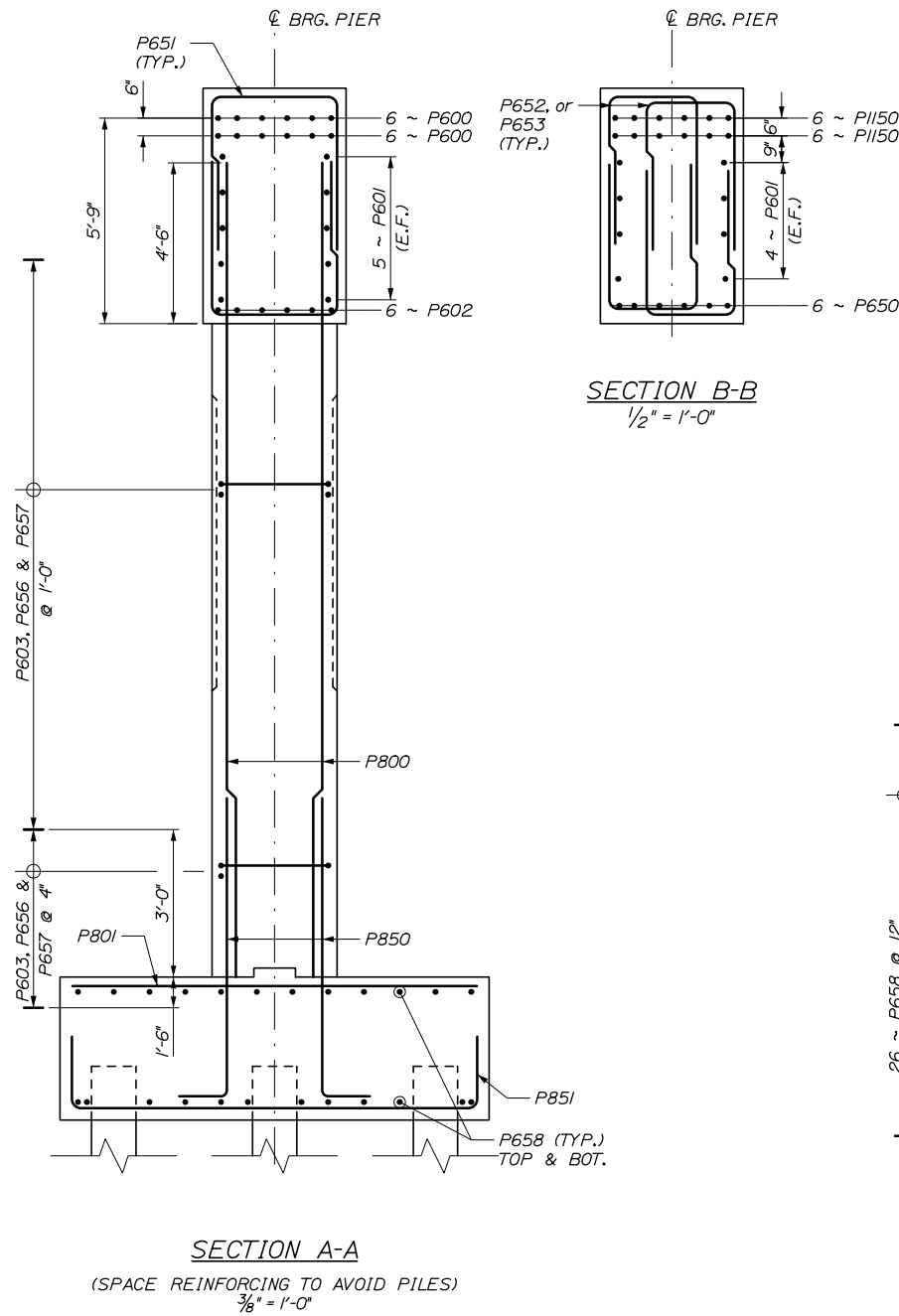
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
PIER REINFORCING

SHEET NUMBER: S-19
CONTRACT: 2021.07
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Date: 1/14/2021

Filename: 283_Pier Details 1.dgn



Scale: AS NOTED

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ECW	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

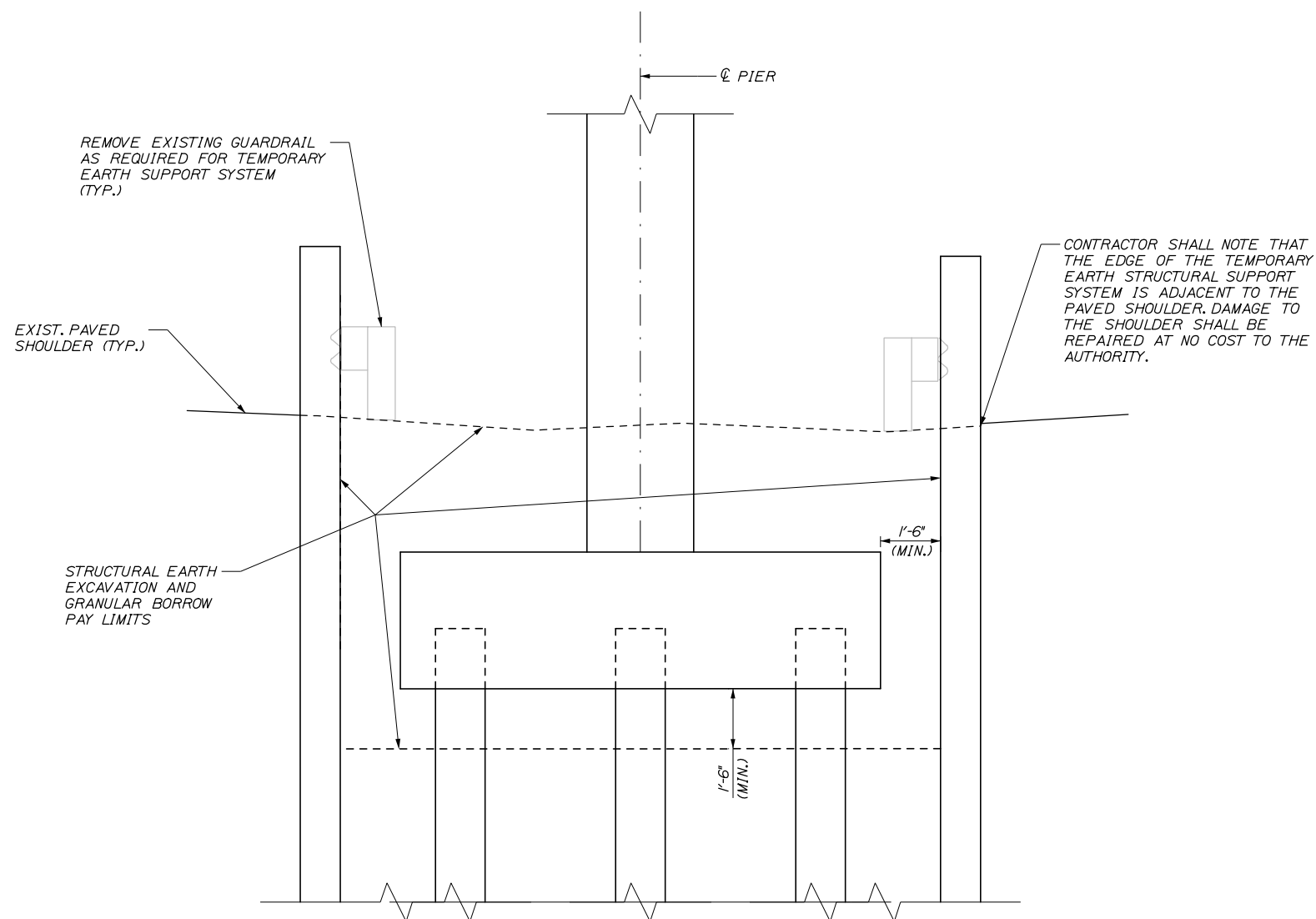
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

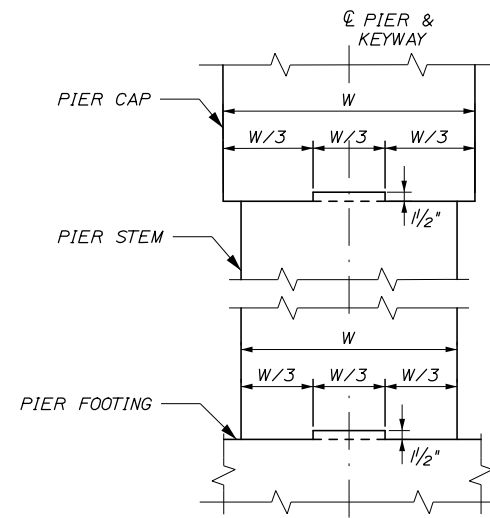
EXIT 45
 INTERCHANGE RECONFIGURATION
 PIER DETAILS I

SHEET NUMBER: S-20
 CONTRACT: 2021.07
 312 OF 431

NOTES:
 1. CONTRACTOR SHALL SURVEY THE EDGE OF PAVEMENT AND YELLOW PAINT LINE PRIOR TO DRIVING ANY SHEETING.



TYPICAL PIER EXCAVATION DETAIL
 $1/2" = 1'-0"$



KEYWAY DETAIL
 $3/4" = 1'-0"$

Date: 1/14/2021

Filename: 283a_Pier Details 2.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	HJW	09\20	Checked	KEB	09\20
	Drawn	ECW	In Charge of	RAL	09\20

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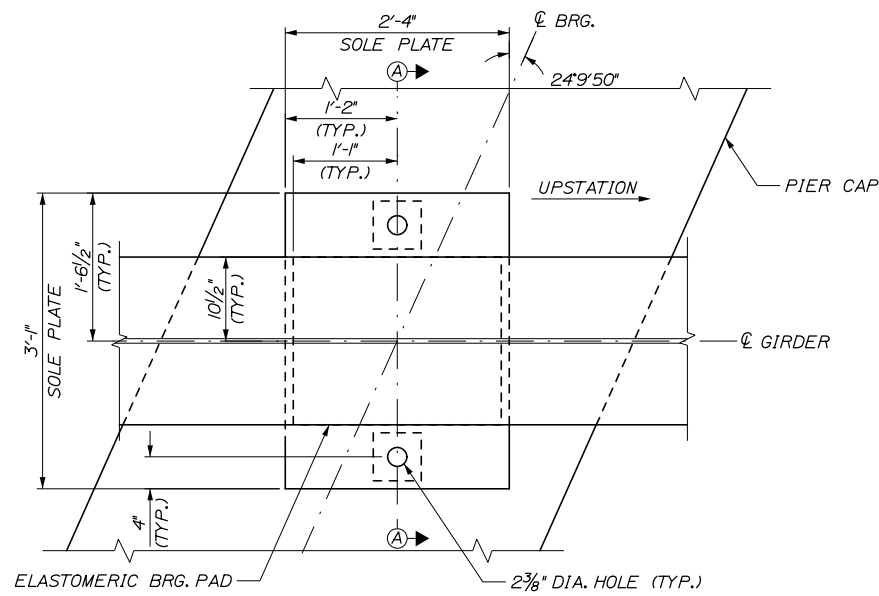
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 PIER DETAILS II

SHEET NUMBER: S-21
 CONTRACT: 2021.07
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Date: 1/14/2021



PLAN
1" = 1'-0"

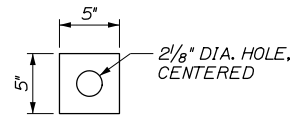
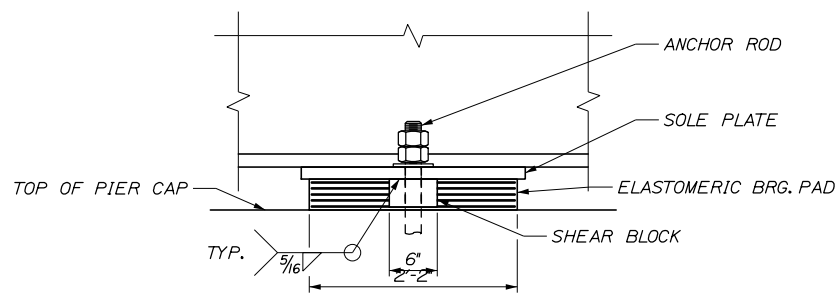
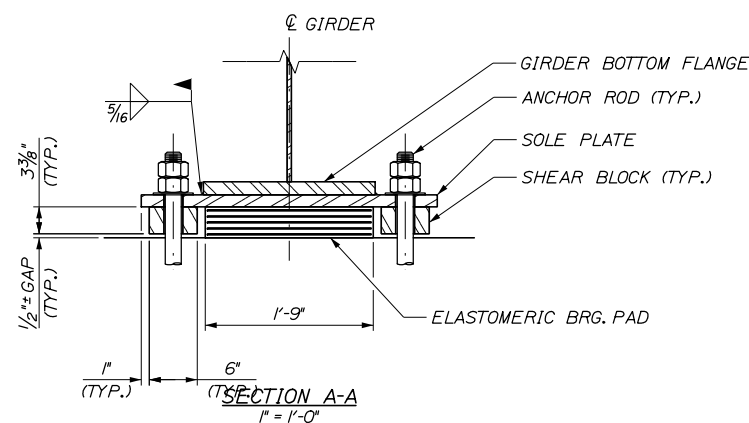


PLATE WASHER DETAIL

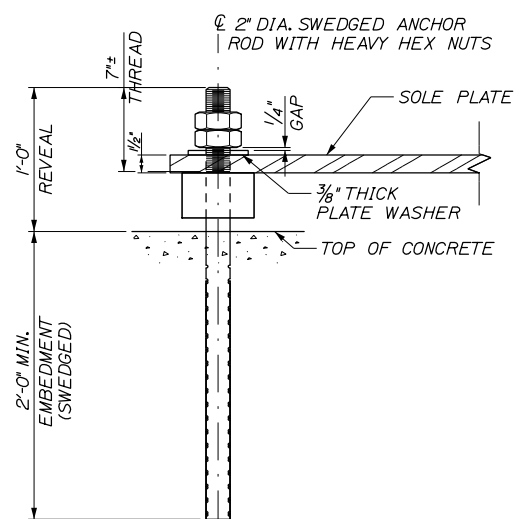
1/2" = 1'-0"



ELEVATION
1" = 1'-0"



PIER BEARING DETAILS



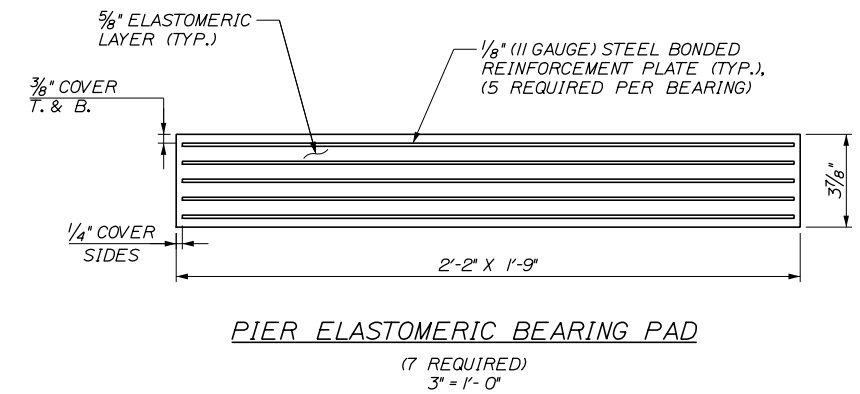
ANCHOR ROD DETAIL

1/2" = 1'-0"
(BEARING PAD AND GIRDER NOT SHOWN FOR CLARITY)

BEARING NOTES:

- ELASTOMER SHALL BE 100% POLYCHLOROPRENE (NEOPRENE) WITH DUROMETER HARDNESS OF 50.
- SOLE PLATE AND SHEAR BLOCK SHALL BE AASHTO M270 GRADE 50 OR 50W. NUTS SHALL BE ASTM A563. WASHERS SHALL BE ASTM F436. ALL STEEL COMPONENTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 OR A153, AS APPLICABLE.
- CONTRACTOR SHALL RE-FINISH GALVANIZING, IN ACCORDANCE WITH ASTM A780, AFTER WELDING.
- BEARING PADS WERE DESIGNED USING "METHOD A" FROM THE AASHTO LRFD SPECIFICATIONS AND SHALL BE SUBSEQUENTLY TESTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- ANCHOR RODS SHALL MEET THE REQUIREMENTS OF ASTM F1554, GRADE 105, AND SHALL BE SWEDGED OR THREADED ON THE EMBEDDED PORTION OF THE ROD.
- ALL STEEL REINFORCING PLATES SHALL MEET THE REQUIREMENTS OF ASTM A36 UNLESS OTHERWISE NOTED AND SHALL BE DEBURRED PRIOR TO MOLDING THE BEARING.
- VULCANIZING ELASTOMER TO STEEL PLATES SHALL BE DONE DURING THE PRIMARY MOLD PROCESS.
- ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE, AND A DIRECTION ARROW THAT POINTS UP-STATION. ALL MARKS SHALL BE PERMANENT AND SHALL BE VISIBLE AFTER THE BEARING IS INSTALLED.
- BEARINGS SHALL BE COVERED DURING TRANSIT.
- THE BEARINGS ARE DESIGNED SO THAT THE SUPERSTRUCTURE MAY BE ERECTED WHEN THE AMBIENT AIR TEMPERATURE IS WITHIN THE RANGE OF -30°F AND 120°F.
- ALL PRECAUTIONS NECESSARY SHALL BE TAKEN TO PROTECT BEARING COMPONENTS FROM FIELD WELD FLASH AND SPATTER. WELDING PROCEDURES SHALL BE ESTABLISHED BY THE CONTRACTOR TO RESTRICT THE MAXIMUM TEMPERATURE OF STEEL ADJACENT TO THE ELASTOMER TO 200°F THROUGH USE OF TEMPERATURE INDICATING CRAYONS OR OTHER SUITABLE MEANS.
- UPSET THE THREADS ON THE ANCHOR RODS AFTER ASSEMBLY.

BEARING DESIGN CRITERIA	
CRITERIA	PIER
UNFACTORED DEAD LOAD (KIPS)	349
UNFACTORED LIVE LOAD (KIPS)	233
MAX. LONGITUDINAL DISPL. (IN.)	0.00



Filename: 284_Bearing Details.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ECW	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

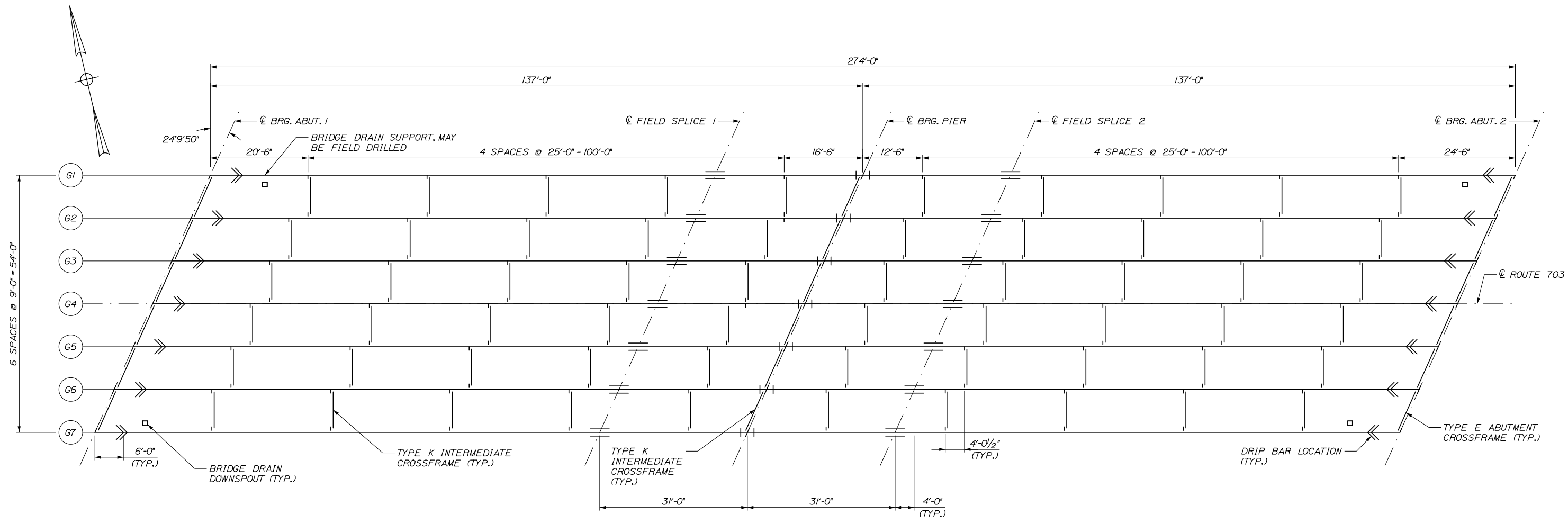
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION

BEARING DETAILS

SHEET NUMBER: S-22
 CONTRACT: 2021.07
 314 OF 431

Date: 1/14/2021



FRAMING PLAN
 $\frac{3}{32}'' = 1'-0''$

STRUCTURAL STEEL NOTES:


1. CAMBER ORDINATES ARE COMPUTED TO COMPENSATE FOR ALL DEAD LOAD DEFLECTIONS AND VERTICAL CURVE PROFILES.
2. BUTT-WELD SPLICES IN FLANGES SHALL BE NOT LESS THAN 1 FOOT FROM TRANSVERSE BUTT-WELDS IN THE WEB PLATES AND NO TRANSVERSE WEB OR FLANGE BUTT-WELDS SHALL BE LOCATED WITHIN 6 INCHES OF OTHER TRANSVERSE WELDS (E.G. CONNECTION PLATES TO WEB WELDS) ON EITHER FLANGE OR WEB.
3. BUTT WELDS AT WEB SPLICES AND FLANGE SPLICES SHALL BE GROUND FLUSH IN LONGITUDINAL DIRECTION OF GIRDER.
4. SECTIONS OF FLANGE PLATES OR WEB PLATES BETWEEN TRANSVERSE SHOP SPLICES OR BETWEEN A TRANSVERSE SHOP SPlice AND A FIELD SPlice SHALL BE NOT LESS THAN 20 FEET IN LENGTH UNLESS OTHERWISE SHOWN ON THE PLANS.
5. BEARING STIFFENERS SHALL BE PLUMB AFTER ERECTION AND DEAD LOADING OF THE STRUCTURE. INTERMEDIATE WEB STIFFENERS AND CROSSFRAME CONNECTION PLATES MAY BE EITHER PLUMB OR NORMAL TO THE TOP FLANGE.
6. CROSSFRAME DETAILS SHALL BE IN ACCORDANCE WITH MAINEDOT STANDARD DETAILS 504(02), 504(04), AND 504(07).
7. BEARING STIFFENERS SHALL BE MILL-TO-BEAR ON THE BOTTOM FLANGE AND TIGHT FIT TO THE TOP FLANGE. BEARING STIFFENERS USED AS CONNECTION PLATES SHALL BE DETAILED AS CONNECTION PLATES.
8. CONNECTION PLATES SHALL BE FULL WEB DEPTH AND WELDED TO THE WEB AND FLANGES ON BOTH SIDES OF THE PLATES. WELDS SHALL TERMINATE $\frac{5}{16}'' \pm \frac{1}{8}''$ FROM THE ENDS OF THE PLATES.
9. INTERMEDIATE STIFFENERS SHALL BE WELDED WITH $\frac{5}{16}''$ FILLET WELDS BOTH SIDES OF THE STIFFENER FOR THE FULL WEB DEPTH AND TIGHT FIT WITH THE FLANGES.
10. PRIOR TO ERECTION OF STRUCTURAL STEEL, THE CONTRACTOR SHALL SUBMIT A DETAILED ERECTION PLAN FOR APPROVAL.
11. ALL BOLTS SHALL BE $\frac{7}{8}''$ HIGH STRENGTH BOLTS. HOLES SHALL BE $\frac{15}{16}''$ UNLESS OTHERWISE NOTED. BOLTS SHALL BE INSTALLED WITH HEADS DOWN AT ALL BOTTOM FLANGE AND TOP FLANGE CONNECTIONS.
12. CROSS FRAMES SHALL BE DETAILED AND FABRICATED TO FIT UNDER TOTAL STEEL DEAD LOAD.
13. STEEL FOR THE TOP AND BOTTOM FLANGES FROM OPTIONAL FIELD SPlice 1 TO OPTIONAL FIELD SPlice 2 (OVER THE PIER LOCATION) SHALL MEET THE REQUIREMENTS OF AASHTO M270 GRADE HPS 70W. FLANGES IN ALL OTHER LOCATIONS AND ALL WEB STEEL SHALL MEET THE REQUIREMENTS OF AASHTO M270 GRADE 50.

Filename: 285_Framing Plan.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	JFR	09\20		HJW	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 45
INTERCHANGE RECONFIGURATION

FRAMING PLAN

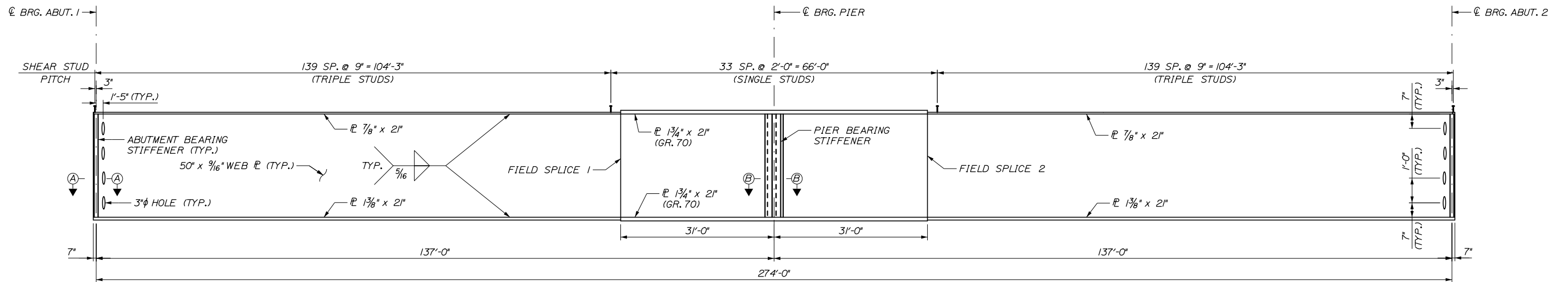
SHEET NUMBER: S-23

CONTRACT: 2021.07

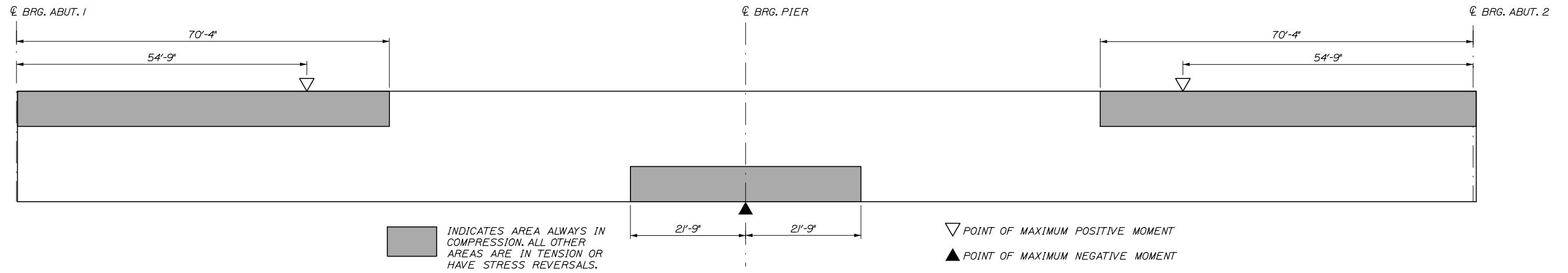
315 OF 431

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

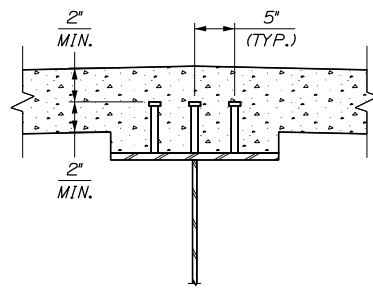
Date: 1/14/2021



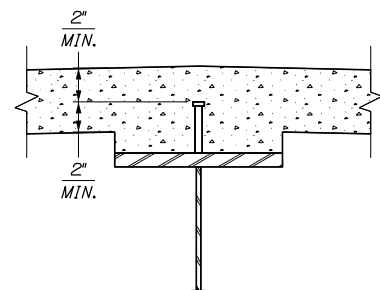
GIRDER ELEVATION
(872 STUDS PER GIRDER)
N.T.S.



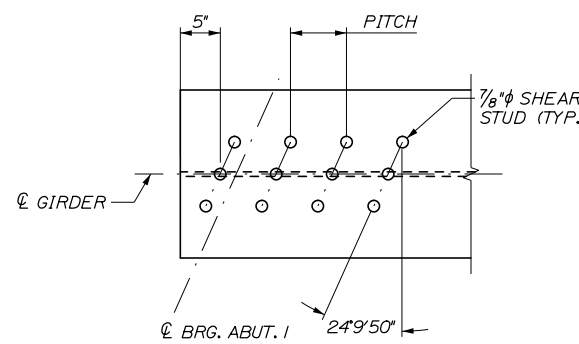
GIRDER STRESS DIAGRAM
N.T.S.



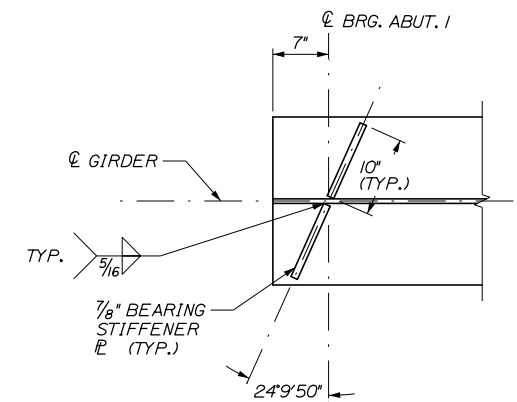
TRIPLE SHEAR CONNECTOR DETAIL
1\"/>



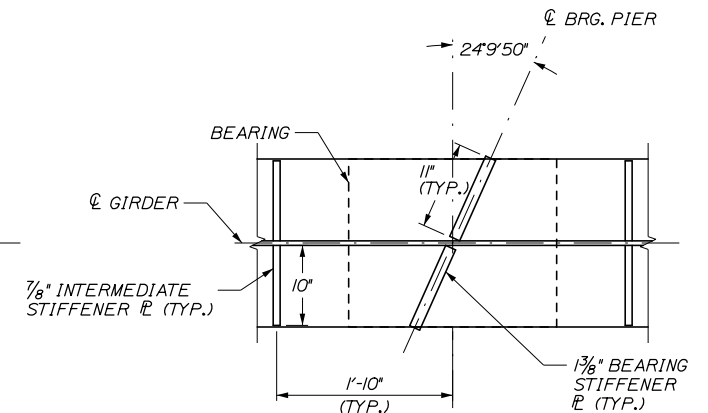
SINGLE SHEAR CONNECTOR DETAIL
1\"/>



SHEAR CONNECTOR PLAN
(ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR)
(3 STUDS PER ROW)
1\"/>



SECTION A-A
(ABUTMENT 1 SHOWN, ABUTMENT 2 OPPOSITE)
1\"/>



SECTION B-B
1\"/>

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	JFR	09\20		HJW	09\20
	ECW	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

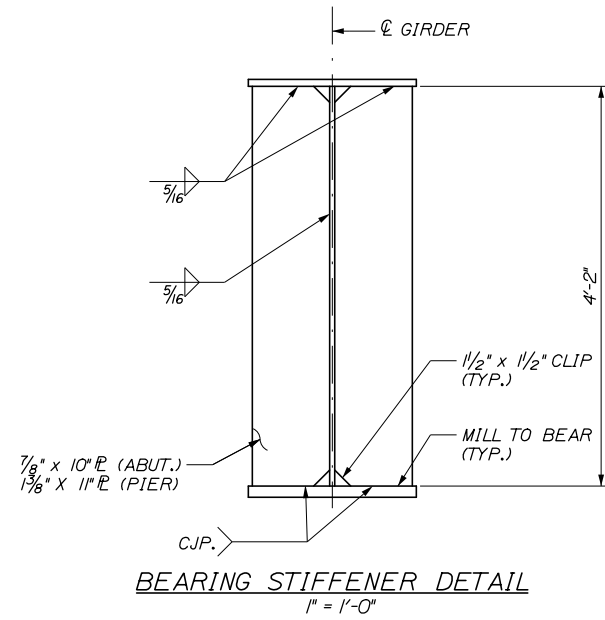
**EXIT 45
INTERCHANGE RECONFIGURATION**

STRUCTURAL STEEL DETAILS I

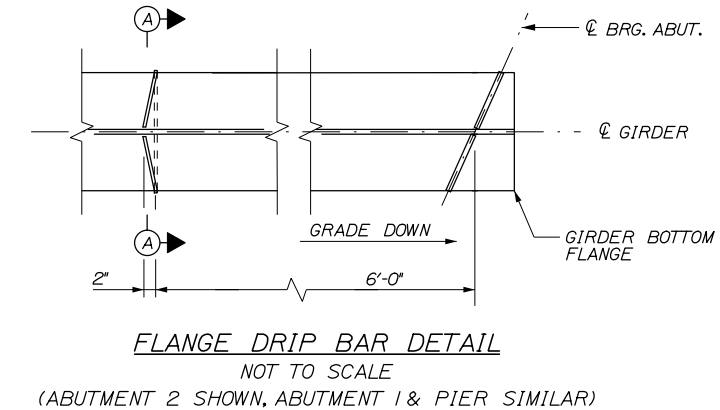
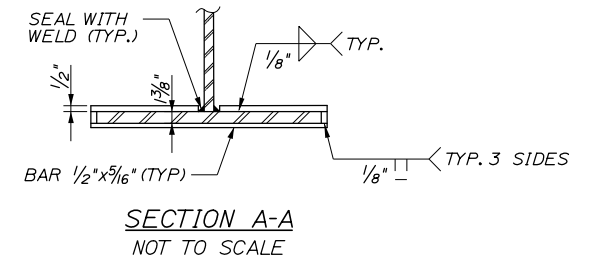
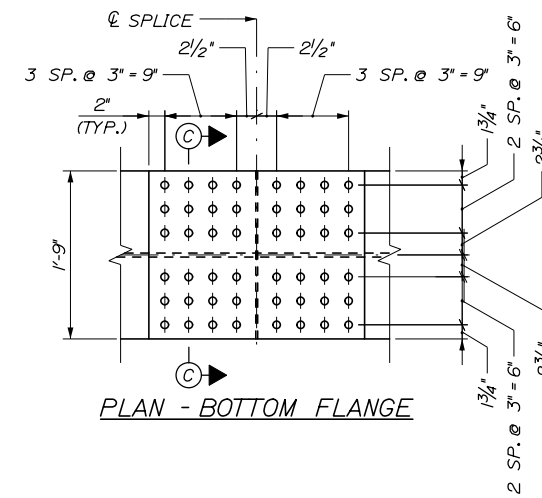
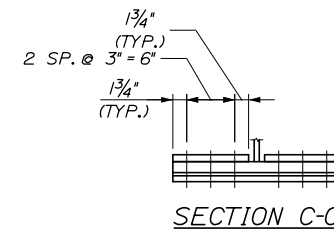
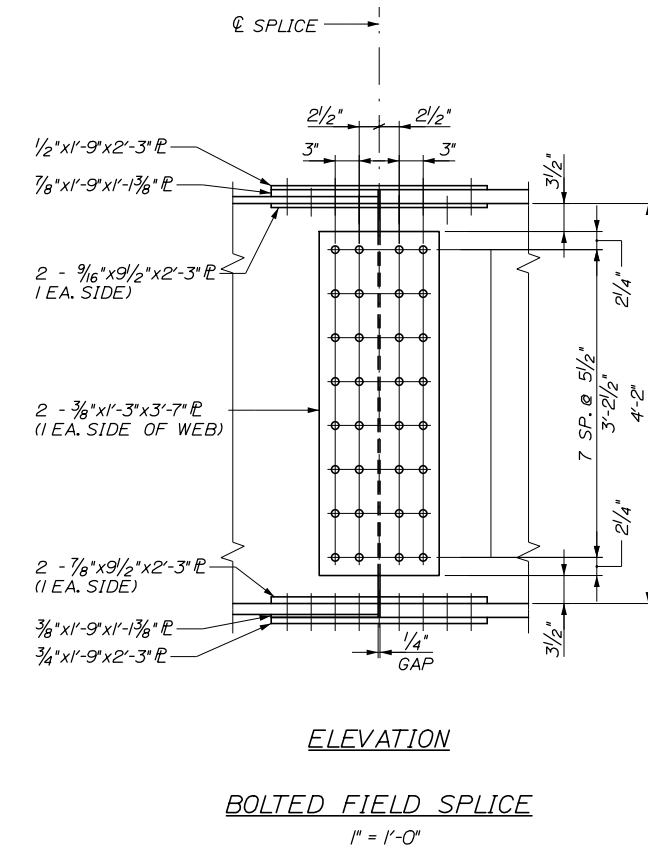
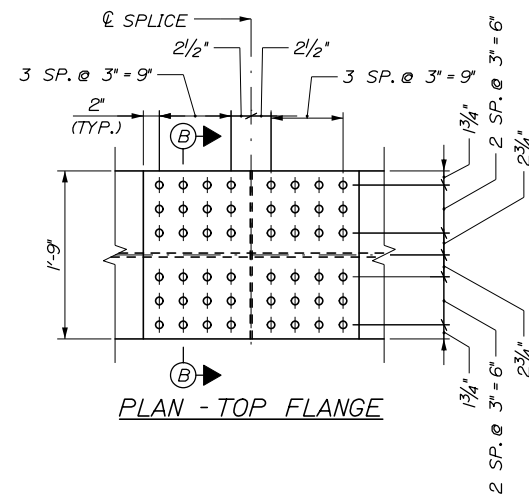
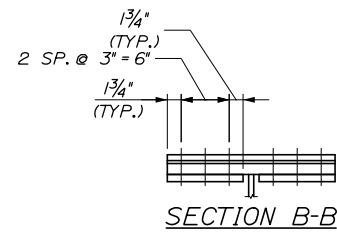
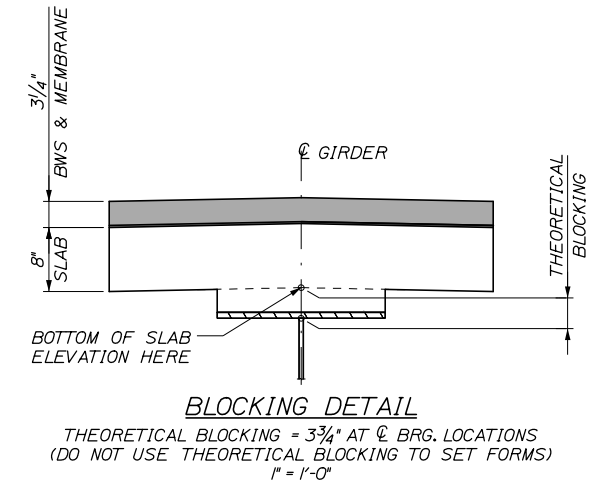
SHEET NUMBER: S-24
CONTRACT: 2021.07
316 OF 431

Filename: 286_StructuralSteelDetails.dgn

Date: 1/14/2021



ADJUSTED BOTTOM OF SLAB ELEVATIONS AT BLOCKING POINTS														
DISTANCE	CL BRG ABUT. 1	SPAN 1 = 137.0'												CL BRG PIER
		1	2	3	4	5	6	7	8	9	10	11	12	13
G1	84.51	84.85	85.17	85.45	85.70	85.91	86.08	86.21	86.30	86.37	86.40	86.42	86.43	86.42
G2	84.58	84.94	85.27	85.58	85.84	86.06	86.23	86.37	86.47	86.53	86.57	86.59	86.60	86.60
G3	84.64	85.01	85.35	85.66	85.93	86.16	86.34	86.49	86.60	86.67	86.72	86.74	86.76	86.77
G4	84.70	85.08	85.43	85.75	86.03	86.26	86.45	86.61	86.72	86.80	86.86	86.89	86.91	86.93
G5	84.40	84.79	85.15	85.47	85.76	86.00	86.20	86.36	86.48	86.57	86.63	86.67	86.71	86.74
G6	84.10	84.49	84.86	85.19	85.48	85.73	85.94	86.11	86.24	86.34	86.41	86.46	86.50	86.53
G7	83.79	84.18	84.54	84.87	85.17	85.42	85.64	85.82	85.96	86.07	86.16	86.22	86.28	86.33
DISTANCE	CL BRG PIER	SPAN 2 = 137.0'												CL BRG ABUT. 2
		1	2	3	4	5	6	7	8	9	10	11	12	13
G1	86.42	86.44	86.44	86.44	86.43	86.39	86.33	86.23	86.10	85.92	85.71	85.47	85.18	84.86
G2	86.60	86.62	86.64	86.66	86.66	86.64	86.59	86.50	86.38	86.21	86.00	85.76	85.47	85.15
G3	86.77	86.81	86.83	86.86	86.86	86.85	86.81	86.73	86.62	86.46	86.26	86.02	85.74	85.43
G4	86.94	86.98	87.02	87.05	87.07	87.06	87.03	86.96	86.85	86.70	86.51	86.28	86.00	85.70
G5	86.75	86.80	86.84	86.88	86.91	86.91	86.88	86.82	86.72	86.58	86.39	86.17	85.91	85.61
G6	86.55	86.61	86.66	86.71	86.74	86.75	86.73	86.68	86.59	86.45	86.28	86.06	85.81	85.52
G7	86.35	86.42	86.47	86.52	86.55	86.57	86.55	86.50	86.41	86.29	86.12	85.92	85.68	85.42



Filename: 287_Structural Steel Details II.dgn

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	JFR 09\20	Checked	HJW 09\20
				Drawn	ECW 09\20	In Charge of	RAL 09\20

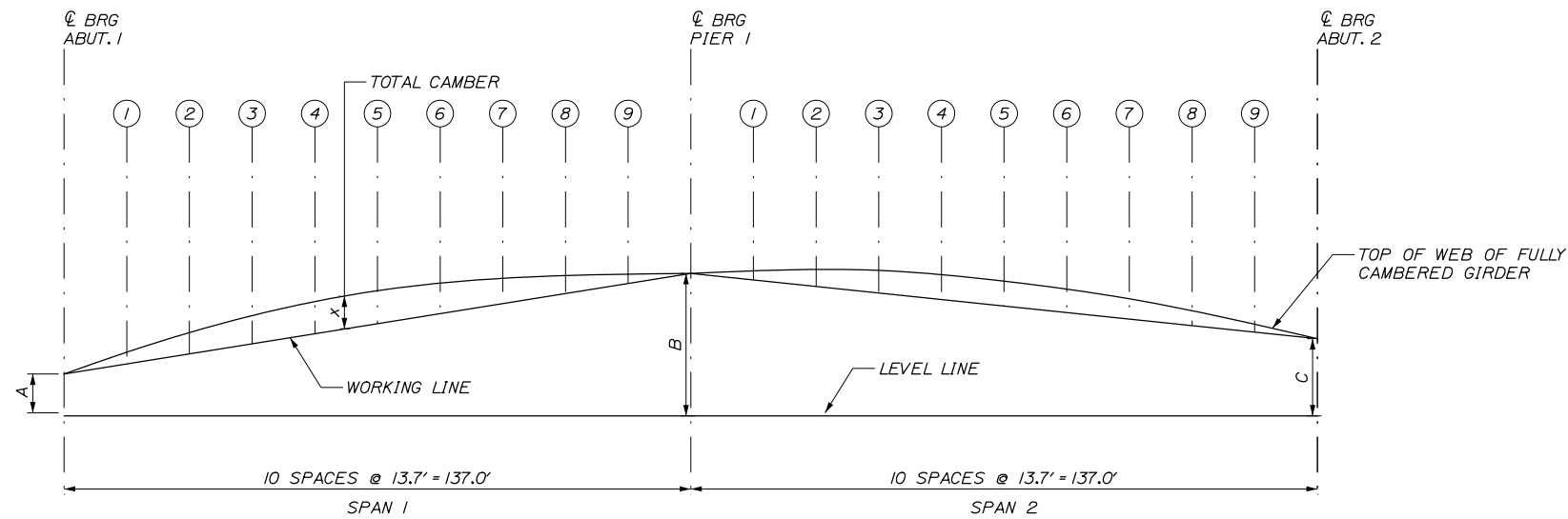
HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909							
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.							

THE GOLD STAR MEMORIAL HIGHWAY			

EXIT 45 INTERCHANGE RECONFIGURATION STRUCTURAL STEEL DETAILS II	
SHEET NUMBER: S-25 317 OF 431	

CONTRACT: 2021.07	SHEET NUMBER: S-25 317 OF 431
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Date: 1/14/2021



CAMBER ORDINATES			
GIRDER	"A"	"B"	"C"
1	0.72	2.63	0.84
2	0.79	2.81	1.12
3	0.86	2.98	1.41
4	0.92	3.15	1.69
5	0.61	2.96	1.60
6	0.31	2.77	1.52
7	0.00	2.57	1.43

CAMBER ORDINATES (IN)																							
GIRDER	CL BRG ABUT. 1	SPAN 1 = 137.0'										CL BRG PIER	SPAN 2 = 137.0'										CL BRG ABUT. 2
		1	2	3	4	5	6	7	8	9	1		2	3	4	5	6	7	8	9			
	DISTANCE FROM ABUT. 1 (FT)	0.0	13.7	27.4	41.1	54.8	68.5	82.2	95.9	109.6	123.3	137.0	150.7	164.4	178.1	191.8	205.5	219.2	232.9	246.6	260.3	274.0	
G1 & G7	STEEL DEAD LOAD	0.00	0.31	0.56	0.73	0.80	0.76	0.63	0.44	0.24	0.08	0.00	0.08	0.24	0.44	0.63	0.76	0.80	0.73	0.56	0.31	0.00	
	CONCRETE DEAD LOAD	0.00	0.95	1.74	2.27	2.47	2.35	1.94	1.36	0.74	0.24	0.00	0.24	0.74	1.36	1.95	2.35	2.47	2.27	1.74	0.95	0.00	
	SUPERIMPOSED DEAD LOAD	0.00	0.32	0.59	0.76	0.84	0.80	0.67	0.47	0.25	0.08	0.00	0.08	0.25	0.47	0.67	0.80	0.84	0.76	0.59	0.32	0.00	
	VERTICAL CURVE	0.00	2.00	3.56	4.67	5.34	5.56	5.34	4.67	3.56	2.00	0.00	2.00	3.56	4.67	5.34	5.56	5.34	4.67	3.56	2.00	0.00	
	TOTAL CAMBER	0.00	3.58	6.45	8.43	9.44	9.46	8.58	6.94	4.79	2.39	0.00	2.39	4.80	6.94	8.58	9.47	9.44	8.43	6.45	3.58	0.00	
G2 - G6	STEEL DEAD LOAD	0.00	0.31	0.56	0.73	0.80	0.76	0.63	0.44	0.24	0.08	0.00	0.08	0.24	0.44	0.63	0.76	0.80	0.73	0.56	0.31	0.00	
	CONCRETE DEAD LOAD	0.00	1.17	2.14	2.79	3.04	2.89	2.39	1.67	0.91	0.29	0.00	0.29	0.91	1.67	2.39	2.88	3.04	2.79	2.14	1.17	0.00	
	SUPERIMPOSED DEAD LOAD	0.00	0.30	0.55	0.71	0.78	0.75	0.62	0.44	0.24	0.07	0.00	0.07	0.24	0.44	0.62	0.75	0.78	0.71	0.55	0.30	0.00	
	VERTICAL CURVE	0.00	2.00	3.56	4.67	5.34	5.56	5.34	4.67	3.56	2.00	0.00	2.00	3.56	4.67	5.34	5.56	5.34	4.67	3.56	2.00	0.00	
	TOTAL CAMBER	0.00	3.77	6.81	8.90	9.95	9.95	8.98	7.22	4.95	2.44	0.00	2.44	4.95	7.22	8.98	9.95	9.95	8.90	6.81	3.77	0.00	

Filename: 288_Structural Steel Details III.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	JFR	09\20	Checked	HJW	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

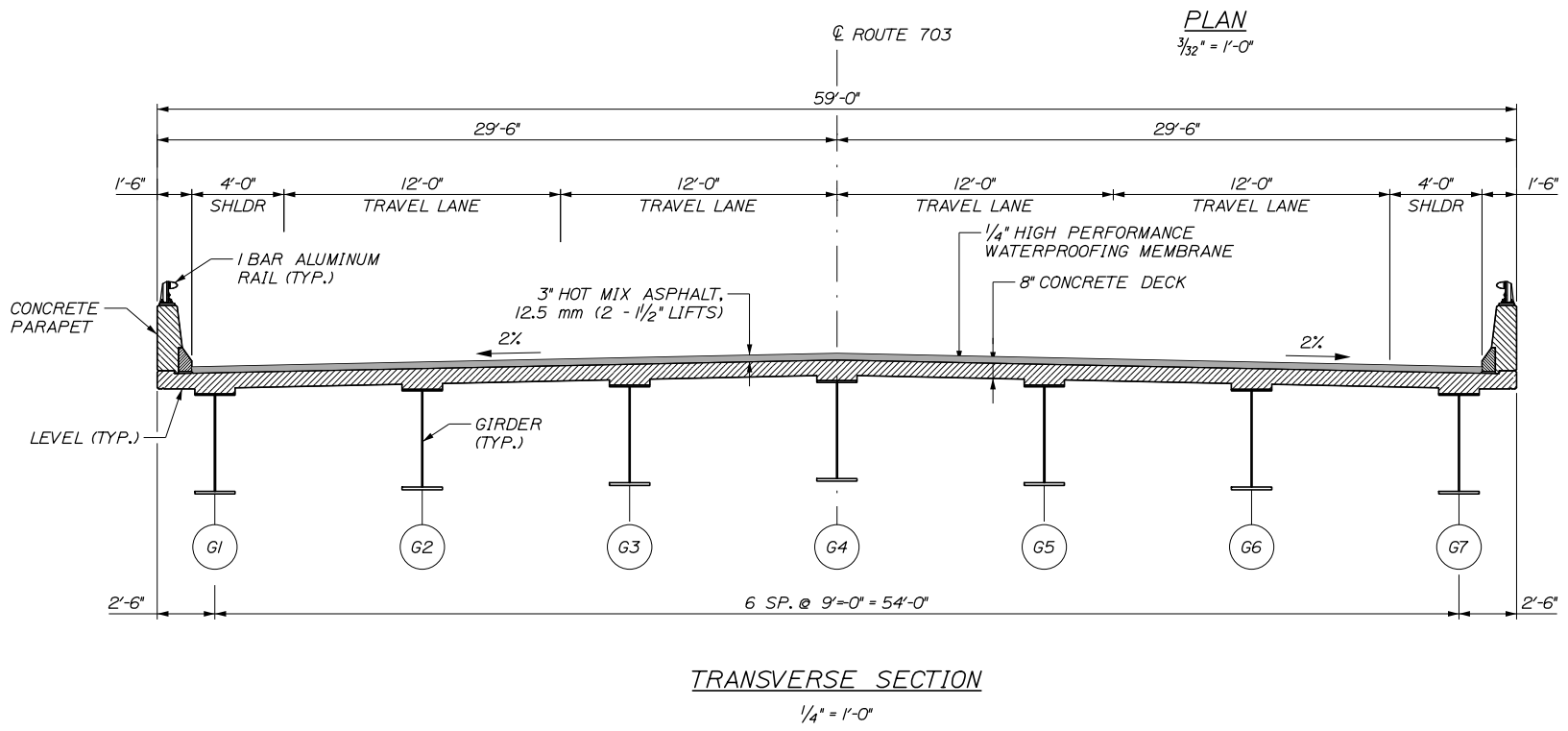
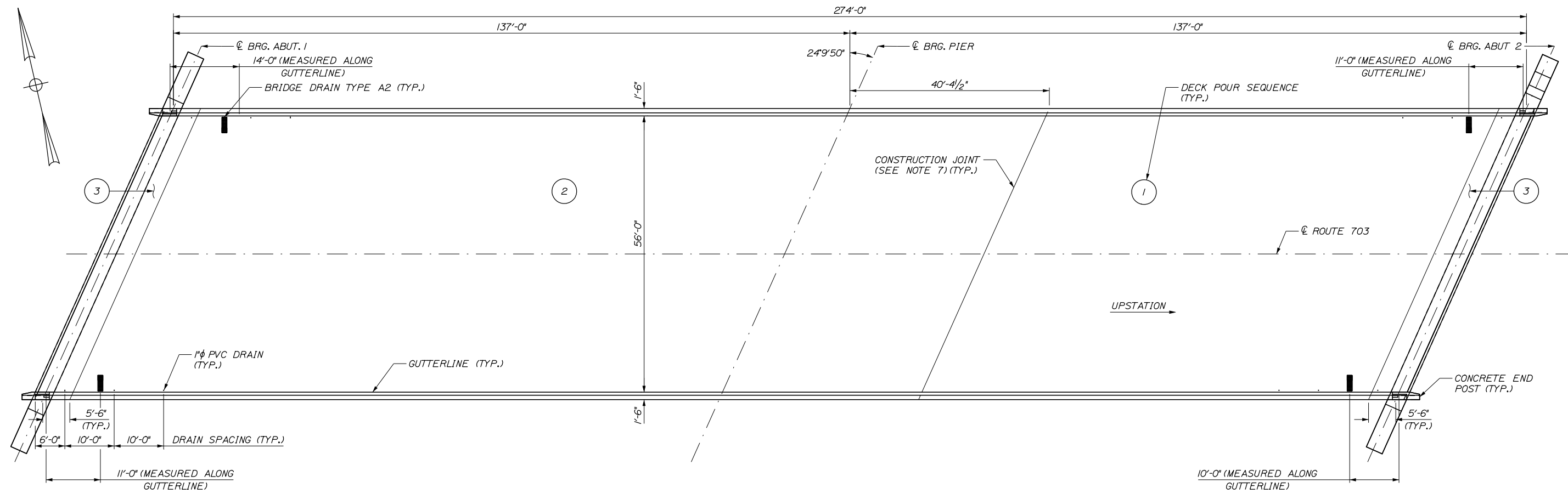
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
STRUCTURAL STEEL DETAILS III

SHEET NUMBER: S-26
CONTRACT: 2021.07
318 OF 431

Date: 1/14/2021

Filename: 289_Transverse Section and Superstructure Plan.dgn



SUPERSTRUCTURE NOTES:

1. THE USE OF PRECAST DECK PANELS IS PROHIBITED.
2. CLEAR PROTECTIVE COATING FOR CONCRETE SURFACE SHALL BE APPLIED TO THE FOLLOWING AREAS: PARAPET SURFACES, FASCIA EXTENDING BENEATH THE DECK TO THE GIRDER TOP FLANGE, AND ALL EXPOSED CONCRETE SURFACES ON THE END POSTS. CLEAR PROTECTIVE COATING SHALL BE APPLIED PRIOR TO WINTER OPERATIONS OR CHLORIDE EXPOSURE.
3. ALL BRIDGE PARAPET CONCRETE, INCLUDING INSIDE FACE, TOP FACE AND END POSTS SHALL HAVE A RUBBED FINISH PRIOR TO THE APPLICATION OF THE CLEAR PROTECTIVE COATING FOR CONCRETE SURFACE.
4. THE CONCRETE DECK SHALL BE GIVEN A SMOOTH BULL FLOAT OR WOOD FLOAT FINISH.
5. SHOP DRAWINGS FOR BAR CHAIRS USED WITH REINFORCING STEEL IN SLAB CONSTRUCTION SHALL BE SUBMITTED WITH REQUIRED SPACING TO THE RESIDENT FOR APPROVAL. BAR CHAIRS SHALL BE EPOXY-COATED OR PLASTIC PROTECTED.
6. FORM A 1" V-GROOVE ON THE FASCIAS AT THE HORIZONTAL JOINT BETWEEN THE PARAPET AND SLAB.
7. CONCRETE SHALL BE KEPT PLASTIC UNTIL AN ENTIRE PLACEMENT HAS BEEN COMPLETED. UNLESS THE SUPERSTRUCTURE SLAB IS PLACED IN ONE CONTINUOUS OPERATION, THE SLAB SHALL BE CAST IN THREE CONSECUTIVE PLACEMENTS WITH THE INITIAL PLACEMENT BEGINNING AT THE CONSTRUCTION JOINT DOWNSTATION OF ABUTMENT 2 AND CONTINUING TO THE TRANSVERSE CONSTRUCTION JOINT UPSTATION OF PIER 1, THE SECOND PLACEMENT BEGINNING AT THE CONSTRUCTION JOINT UPSTATION OF ABUTMENT 1 TO THE CONSTRUCTION JOINT UPSTATION OF PIER 1, AND THE THIRD SHALL BE THE CLOSURE PLACEMENTS FOR THE ENDS OF THE DECK AND THE TOP OF ABUTMENTS 1 AND 2. A MINIMUM OF 5 DAYS SHALL ELAPSE BETWEEN SUCCESSIVE PARTIAL PLACEMENTS. THE SUPERSTRUCTURE SLAB CONCRETE PLACEMENT SEQUENCE SHALL BE APPROVED BY THE RESIDENT.
8. THE FORMWORK AND ITS SUPPORTS, OVER THE FULL WIDTH OF THE STRUCTURAL SLAB, SHALL REMAIN IN PLACE UNTIL A MINIMUM OF 48 HOURS HAS ELAPSED AFTER PLACEMENT OF THE FINAL SECTION OF THE SLAB. AFTER THIS PERIOD, REMOVAL OF FORMWORK FOR SECTIONS MEETING THE REQUIREMENTS FOR FORM REMOVAL AND CURING OF MAINE TURNPIKE AUTHORITY SUPPLEMENTAL SPECIFICATIONS SECTION 502, STRUCTURAL CONCRETE, MAY PROCEED.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	HJW	09\20	Checked KEB 09\20
Drawn	ERB	09\20	In Charge of RAL 09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

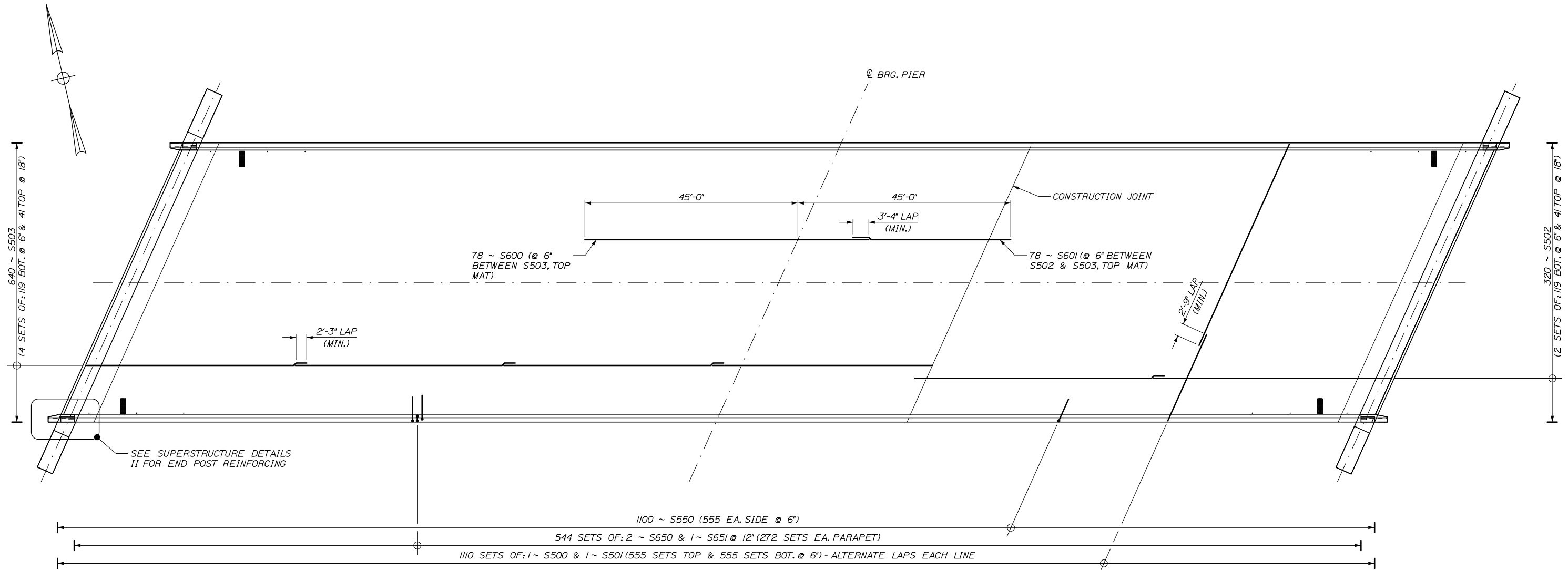
EXIT 45
INTERCHANGE RECONFIGURATION
TRANSVERSE SECTION AND
SUPERSTRUCTURE PLAN

SHEET NUMBER: S-27

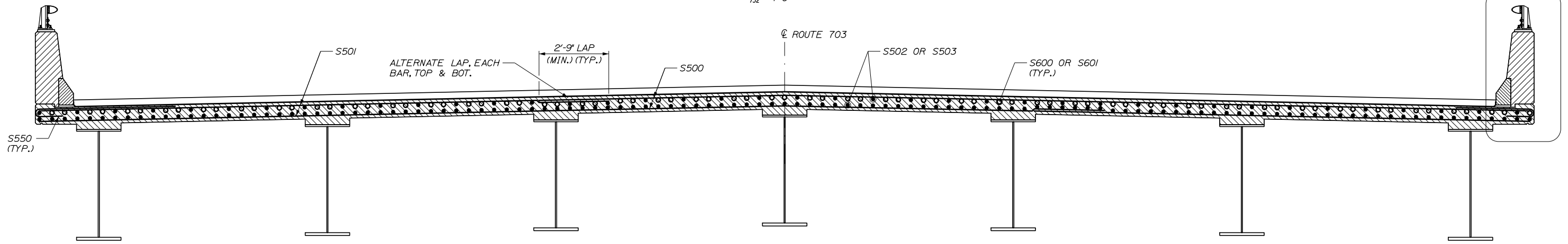
CONTRACT: 2021.07 319 OF 431

Date: 1/14/2021

Filename: 290_Superstructure Reinforcing.dgn



SUPERSTRUCTURE REINFORCING PLAN
 $\frac{3}{32}'' = 1'-0''$



REINFORCING TRANSVERSE SECTION
 $\frac{1}{2}'' = 1'-0''$

Scale: AS NOTED

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	HJW	09\20		KEB	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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THE GOLD STAR MEMORIAL HIGHWAY

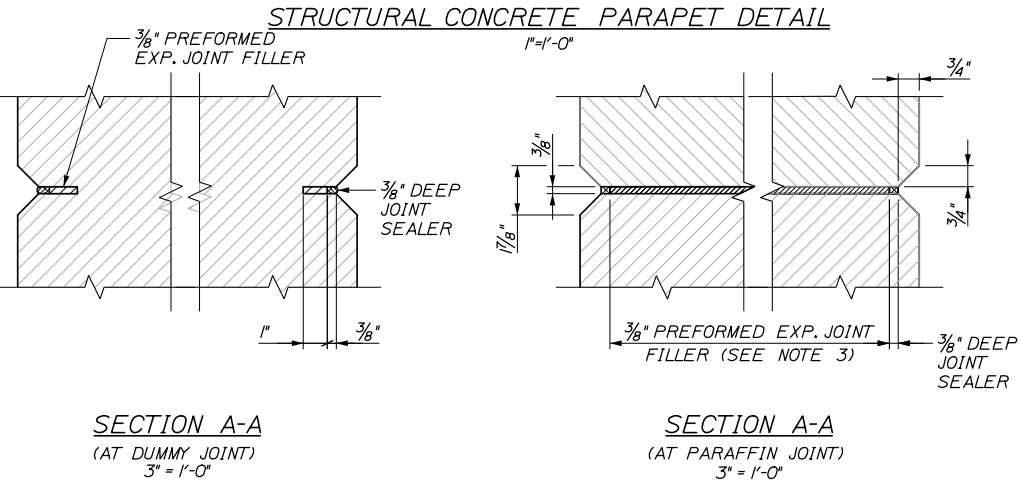
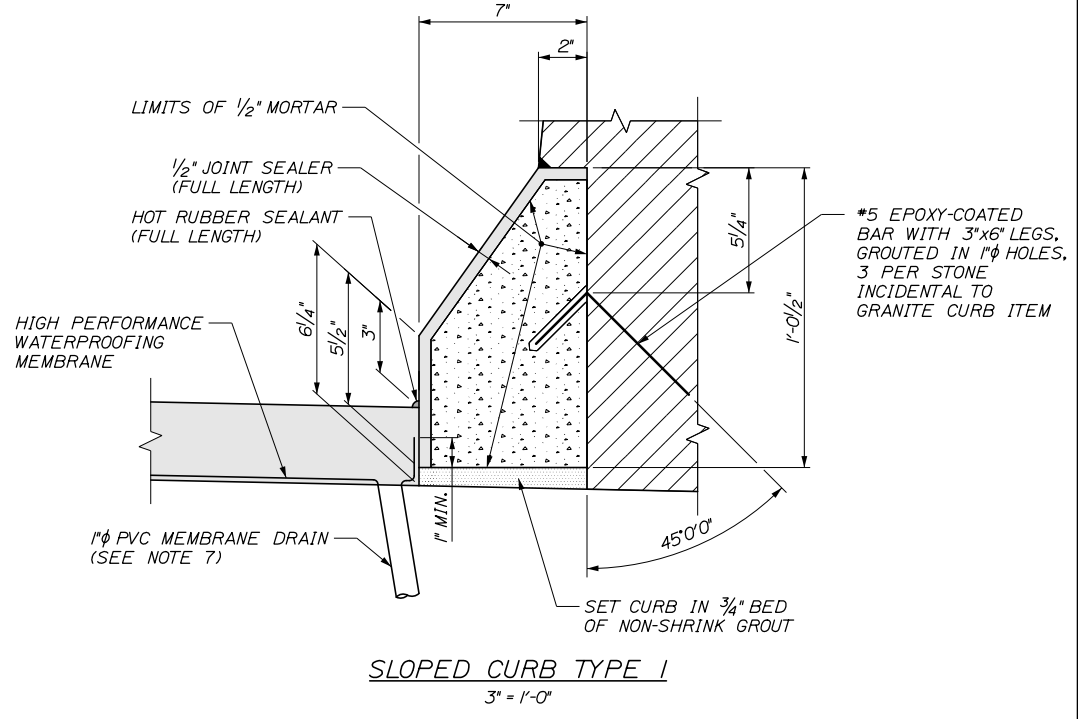
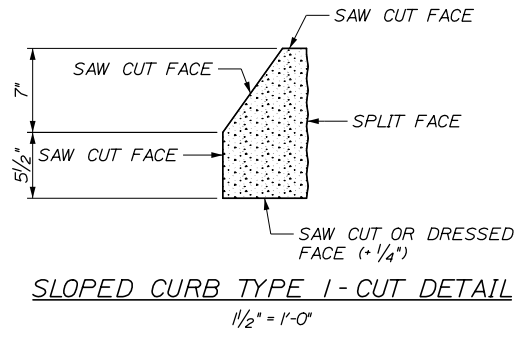
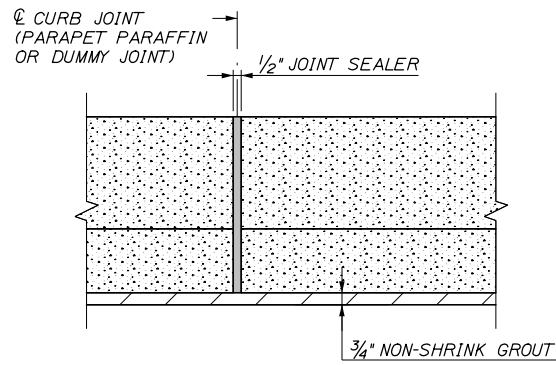
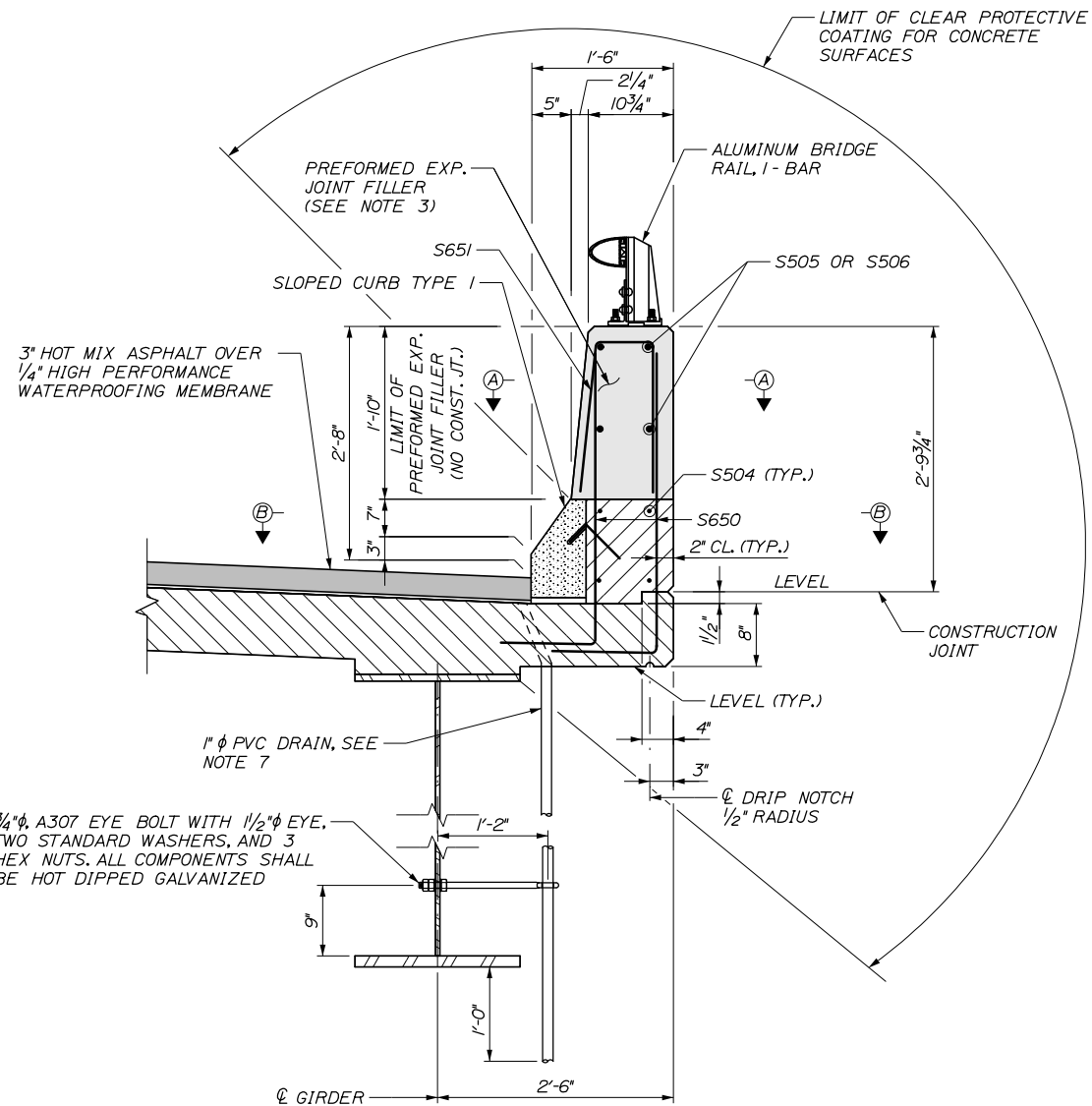
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
SUPERSTRUCTURE REINFORCING

SHEET NUMBER: S-28
 CONTRACT: 2021.07
 320 OF 431

Date: 1/14/2021

Filename: 291_Superstructure Details 1.dgn



- PARAPET NOTES**
- CONSTRUCTION OF PARAFFIN AND DUMMY JOINTS, INCLUDING PREFORMED EXPANSION JOINT FILLER, SHALL BE INCIDENTAL TO RELATED STRUCTURAL CONCRETE PAY ITEM.
 - CONCRETE SHALL BE PLACED SIMULTANEOUSLY ON BOTH SIDES OF THE PARAFFIN JOINT. THE PARAFFIN JOINTS SHALL REMAIN PLUMB AND STRAIGHT. A THIN STEEL PLATE, FREE OF RUST AND DEBRIS, MAY BE USED TO SUPPORT THE JOINT DURING CONCRETE PLACEMENT. THE PLATE SHALL BE CAREFULLY REMOVED WHILE THE CONCRETE IS PLASTIC.
 - PREFORMED EXPANSION JOINT FILLER SHALL CONFORM TO ASTM DESIGNATION D1752, TYPE 1 OR ASTM D5249, TYPE 2. PREFORMED EXPANSION JOINT FILLER SHALL BE A NON STAINING, NON BLEEDING TYPE. PRODUCTS SUCH AS 'CERAMAR', MANUFACTURED BY W. R. MEADOWS, OR AN APPROVED EQUAL WILL BE ACCEPTABLE. CORK IS NOT AN ACCEPTABLE PREFORMED EXPANSION JOINT FILLER MATERIAL.
 - JOINT SEALER SHALL BE SIKASIL 728 NS OR APPROVED EQUAL AND SHALL BE INCIDENTAL TO RELATED CONTRACT PAY ITEMS.
 - MORTAR FOR BEDDING AND FOR JOINTS IN THE GRANITE CURB SHALL CONTAIN A NON-SHRINK ADDITIVE.
 - GRANITE CURB JOINTS SHALL LINE UP WITH PARAFFIN AND DUMMY JOINTS.
 - PVC DRAINS SHALL BE PLACED AT THE LOW CORNERS OF THE BRIDGE, AS SHOWN ON SHEET S-27 OR AS DIRECTED BY THE RESIDENT, AND SHALL EXTEND 1-FT BELOW THE BOTTOM OF GIRDER. PAYMENT FOR PVC DRAINS AND DRAIN CLIPS WILL BE INCIDENTAL TO ITEM 502.26, STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLAB ON STEEL BRIDGES.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ECW	09\20	In Charge of	RAL	09\20

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THE GOLD STAR MEMORIAL HIGHWAY

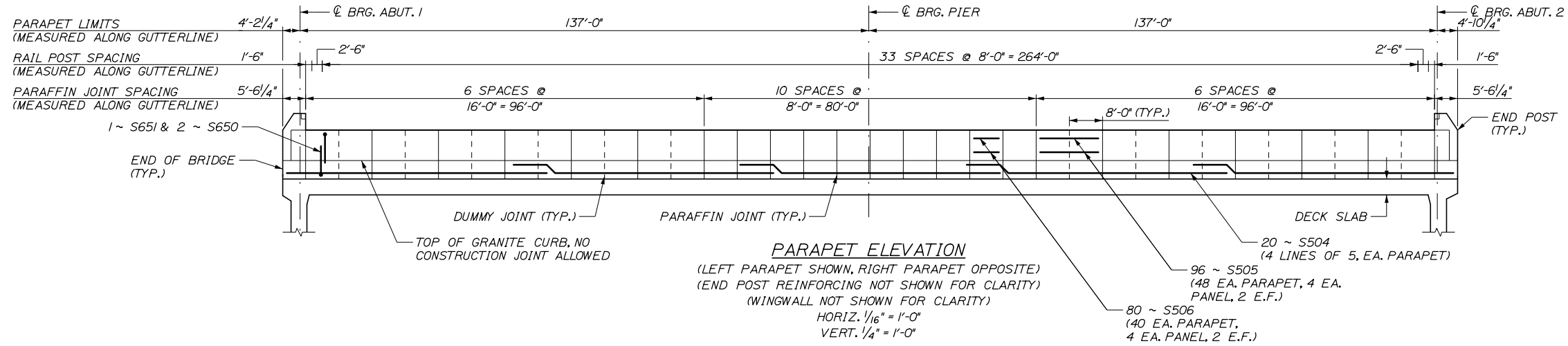
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 SUPERSTRUCTURE DETAILS I

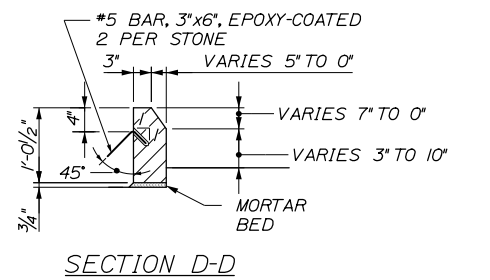
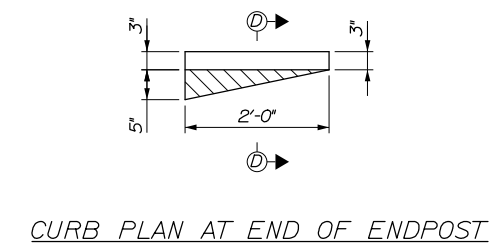
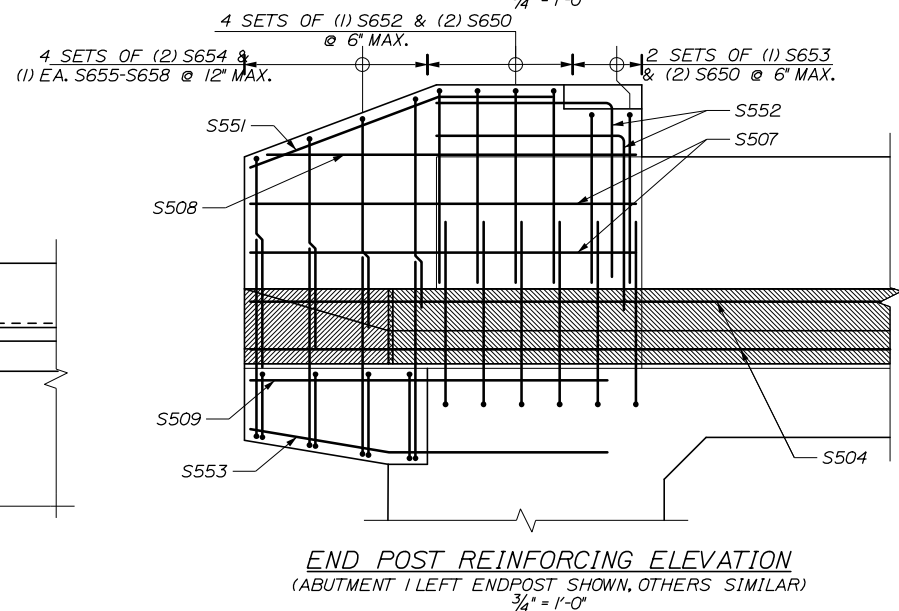
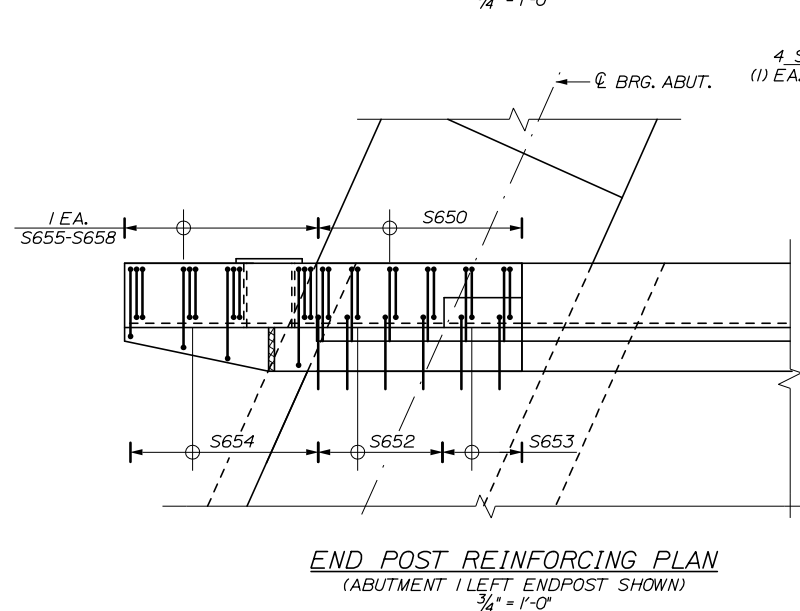
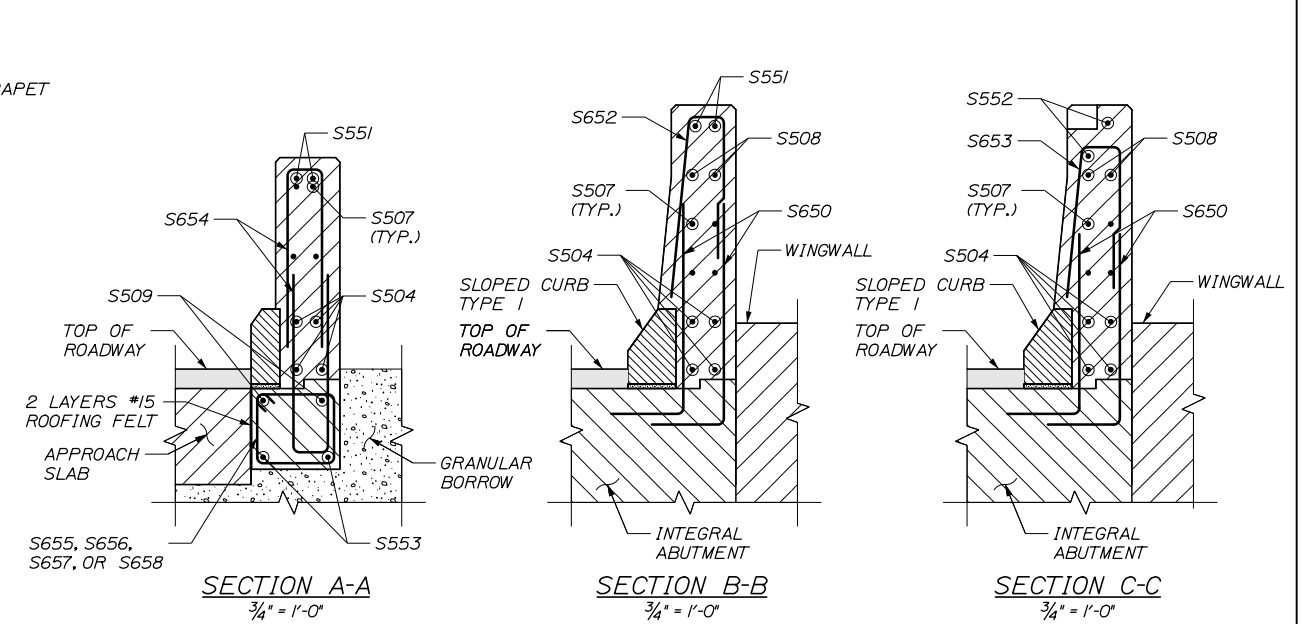
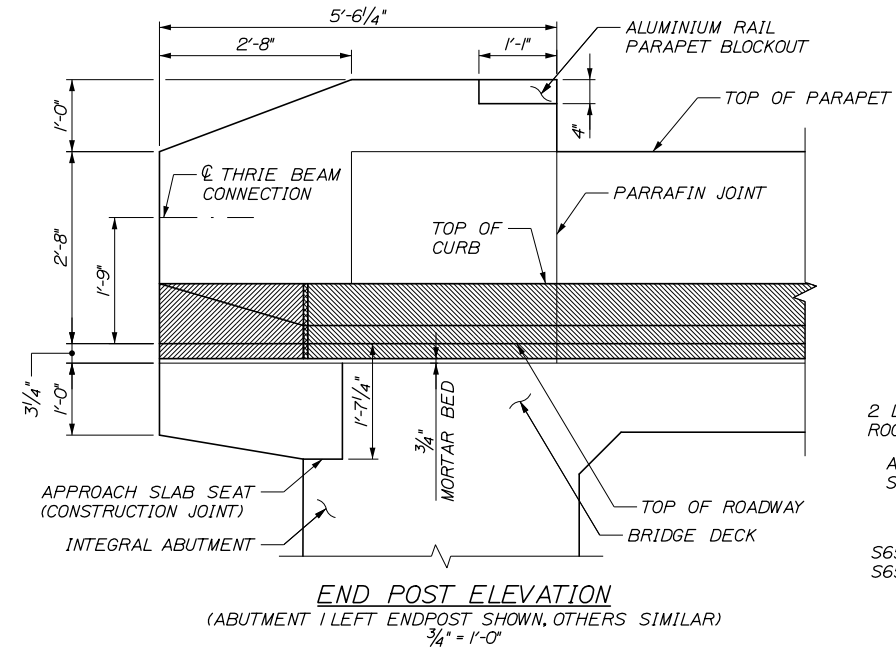
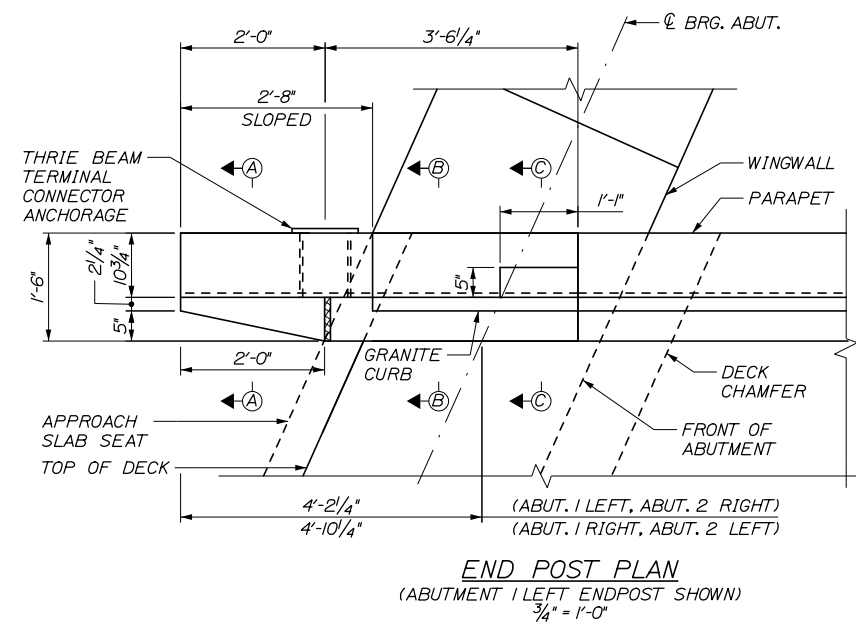
SHEET NUMBER: S-29
 CONTRACT: 2021.07
 321 OF 431

Date: 1/14/2021

Filename: 292_Superstructure Details II.dgn



NOTE:
 1. SEE SHEET S-29 FOR PARAPET NOTES.



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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

SUPERSTRUCTURE DETAILS II

SHEET NUMBER: S-30

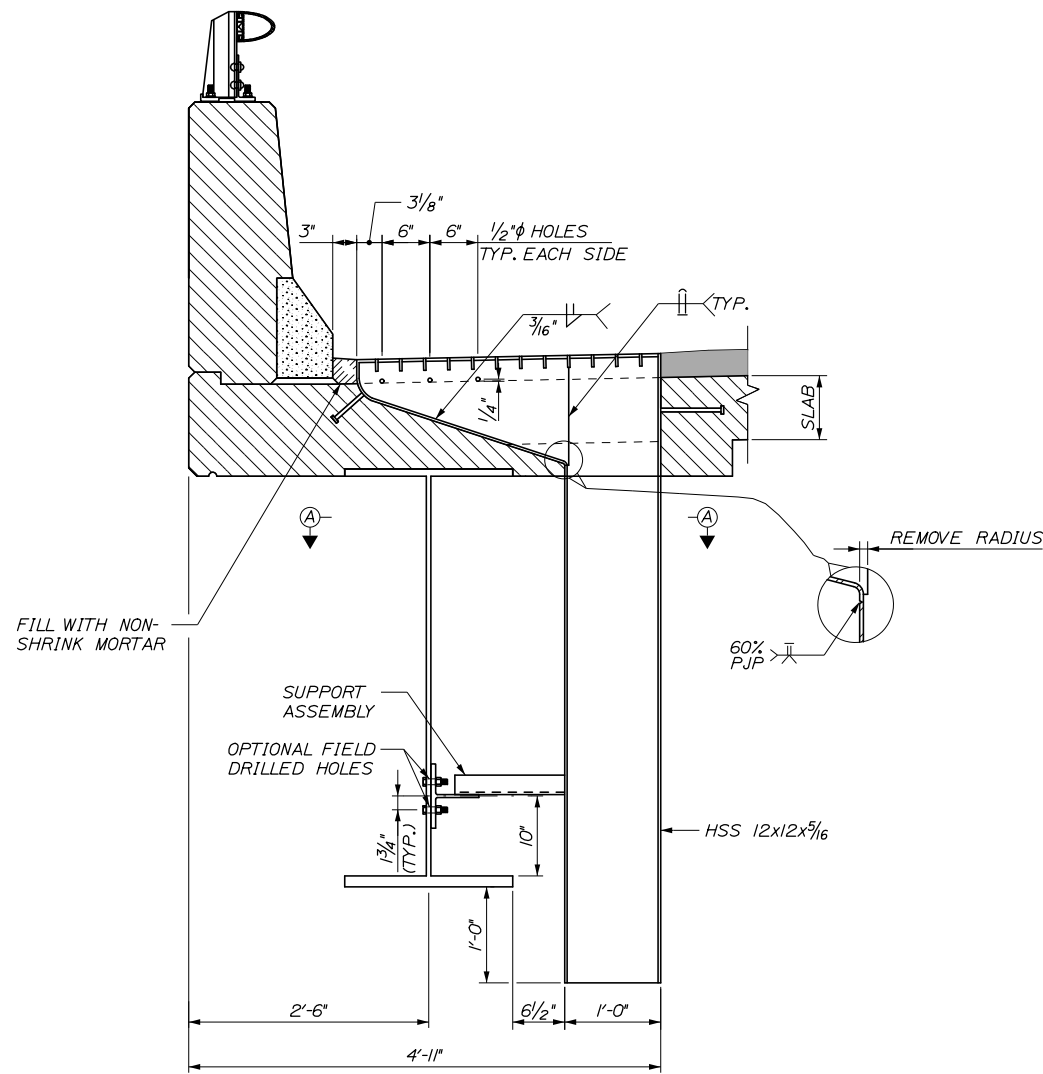
CONTRACT: 2021.07

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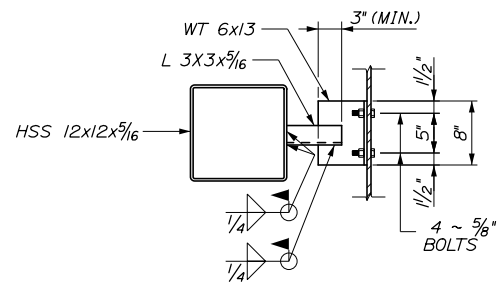
Date: 1/14/2021

BRIDGE DRAIN NOTES:

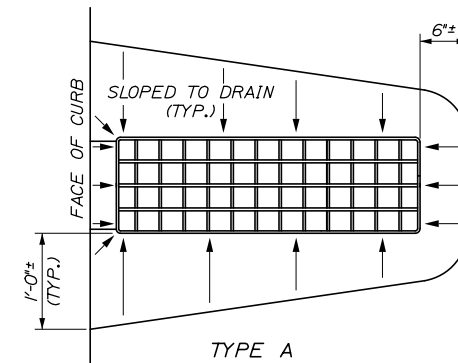
1. ALL PLATES, IF ANY, SHALL BE 1/4" THICK AND SHALL CONFORM TO AASHTO M270, GRADE 50.
2. DOWNSPOUTS SHALL CONFORM TO ASTM A500, GRADE B.
3. GRATING SHALL BE A COMMERCIAL HEAVY-DUTY GRATING WITH 1/2" X 5/16" BEARING BARS SPACED AT 2 3/8" AND 3/8" φ CROSS BARS SPACED AT 4". GRATING SHALL BE CENTERED IN THE DRAIN TOP.
4. SHEAR CONNECTORS WELDED TO TOP FLANGE OF BEAM MAY NEED TO BE BENT OUT OF THE WAY SHOULD AN INTERFERENCE WITH THE BRIDGE DRAIN OCCUR.
5. ALL DRAIN COMPONENTS SHALL BE BLAST CLEANED TO THE REQUIREMENTS OF SSPC-SP6/NACE 3 AND HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. ALL ASSOCIATED FASTENERS SHALL BE HOT DIP GALVANIZED.
6. THE ADDITIONAL REINFORCING STEEL AROUND EACH BRIDGE DRAIN WILL NOT BE PAID FOR DIRECTLY. PAYMENT WILL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.



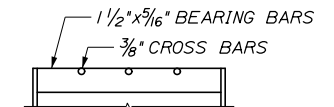
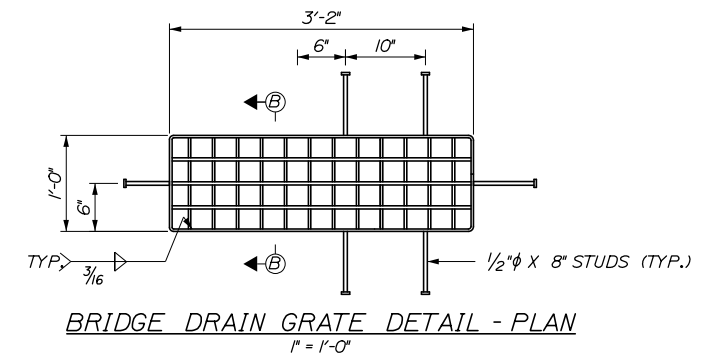
BRIDGE DRAIN TYPE A2
1" = 1'-0"



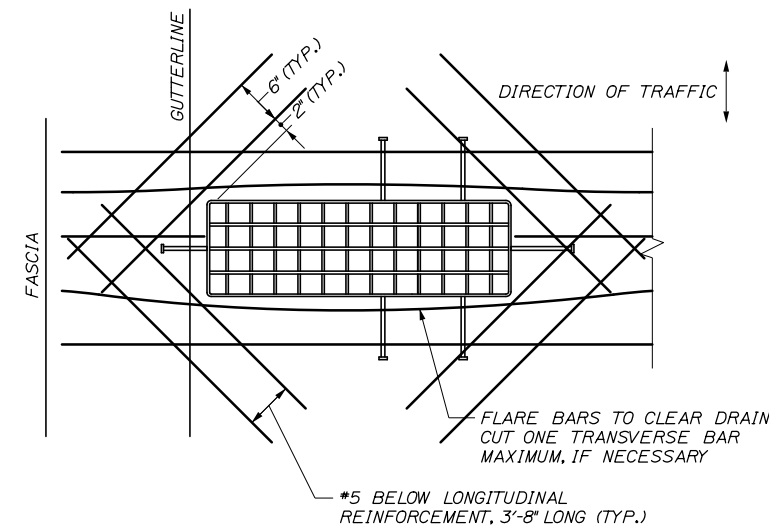
SECTION A-A
2" = 1'-0"



PAVEMENT DEPRESSION AROUND BRIDGE DRAINS
1" = 1'-0"



SECTION B-B
2" = 1'-0"



SLAB REINFORCEMENT AROUND BRIDGE DRAINS
1" = 1'-0"

Filename: 293_Drain Details.dgn

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	By	Date	
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**THE GOLD STAR
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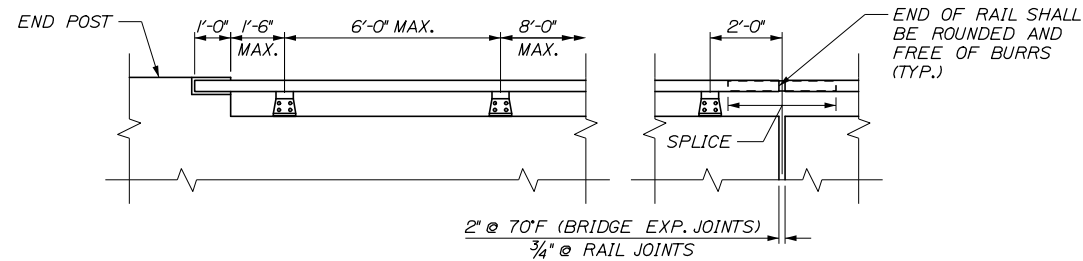
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
BRIDGE DRAIN DETAILS

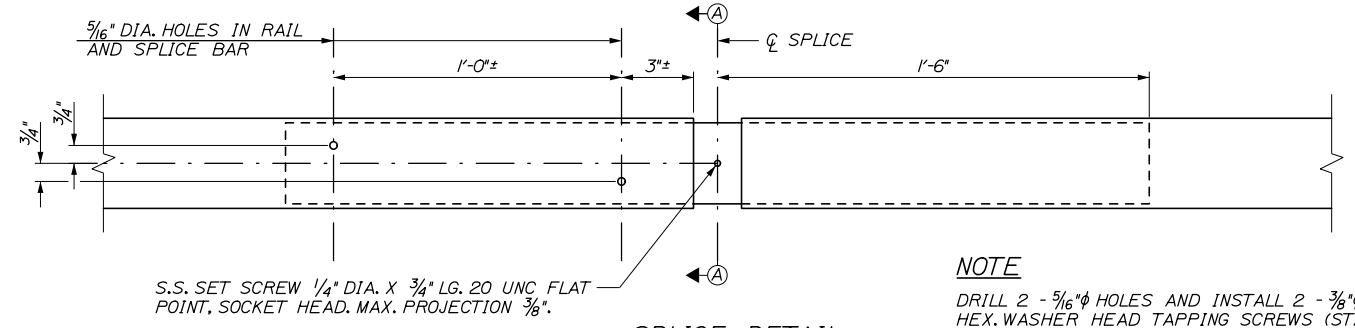
SHEET NUMBER: S-31
CONTRACT: 2021.07
323 OF 431

Date: 1/14/2021

Filename: 294-Aluminum Bridge Railing (1 Bar).dgn

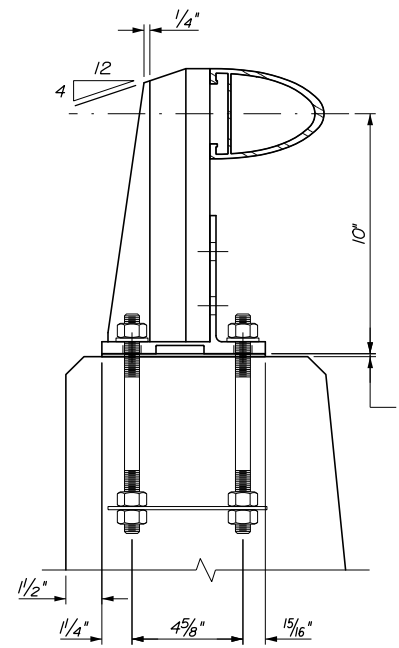


RAILING ELEVATION
3/8" = 1'-0"

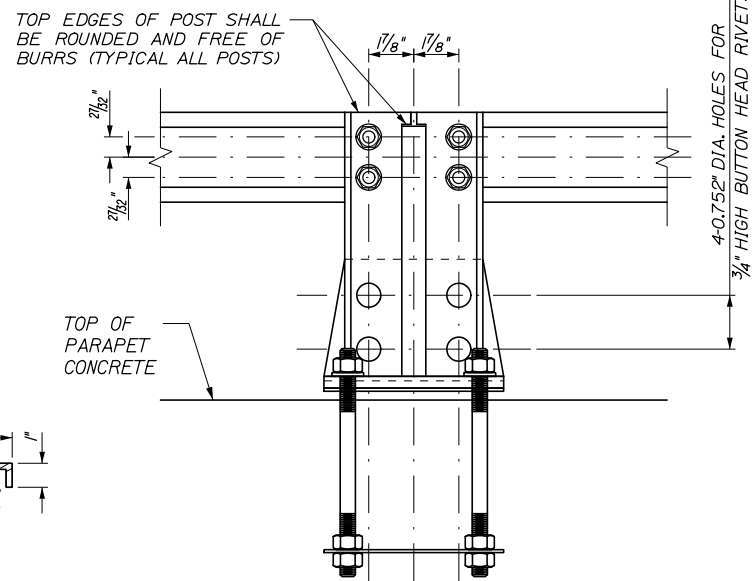


SPLICE DETAIL
3" = 1'-0"

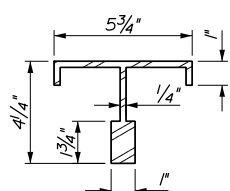
NOTE
DRILL 2 - 5/16" φ HOLES AND INSTALL 2 - 3/8" φ X 1", TYPE F, HEX. WASHER HEAD TAPPING SCREWS (STAINLESS).



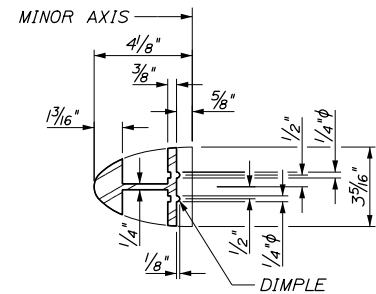
BRIDGE RAILING ASSEMBLY
3" = 1'-0"



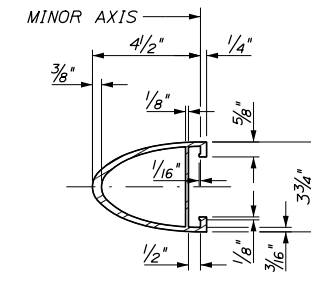
OUTSIDE ELEVATION OF POST
3" = 1'-0"



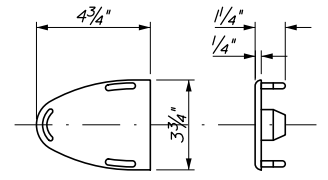
POST SECTION
3" = 1'-0"



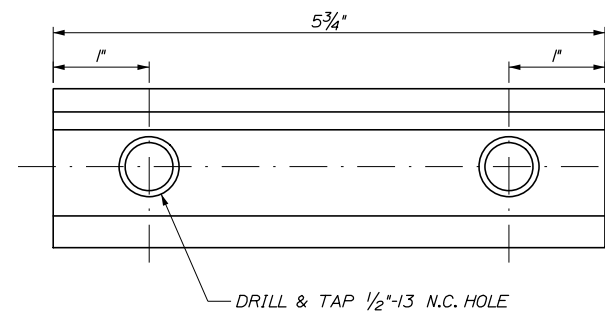
SECTION A-A
3" = 1'-0"



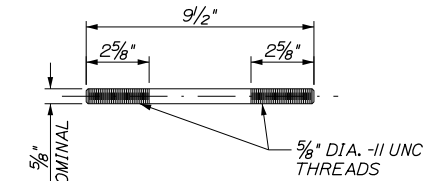
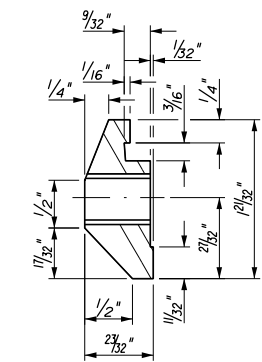
RAIL MEMBER
3" = 1'-0"



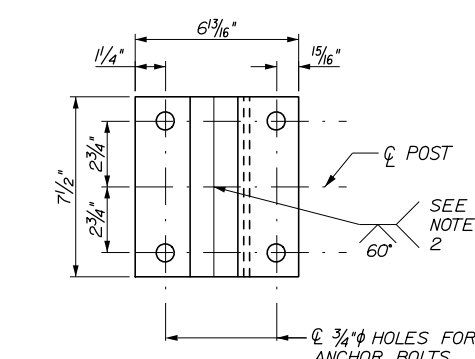
CAST ALUMINUM DRIVE FIT RAIL CAP
3" = 1'-0"



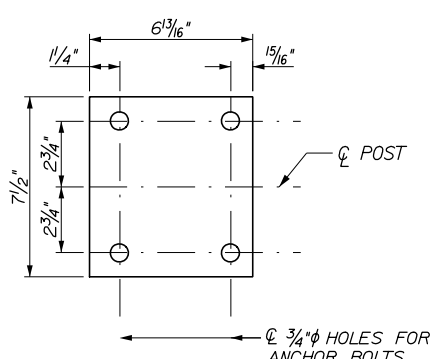
CLAMP BAR DETAILS
1'-0" = 1'-0"



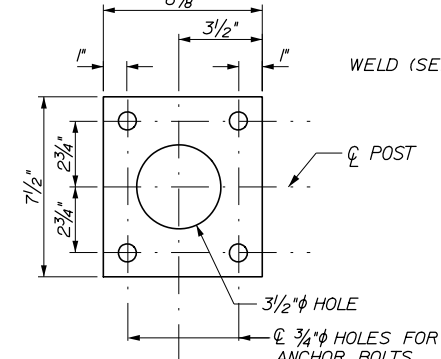
ANCHOR BOLT
(SEE NOTES 3 AND 4)
3" = 1'-0"



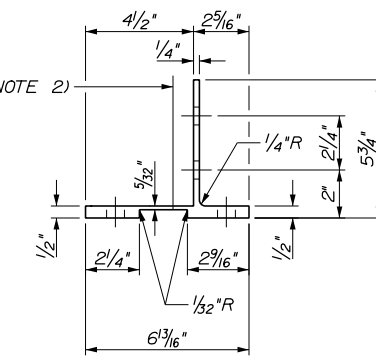
POST BASE (BOTTOM VIEW)
3" = 1'-0"



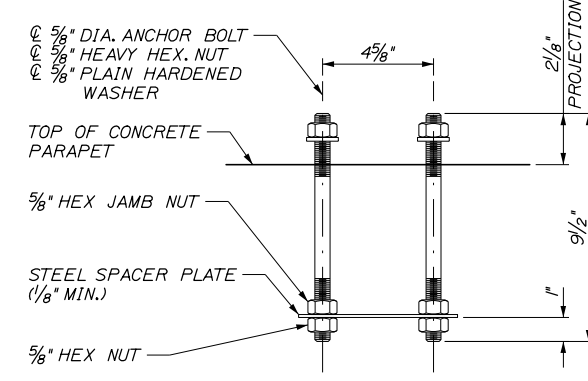
PREFORMED PAD
3" = 1'-0"



STEEL SPACER PLATE (FOR ANCHORAGE)
3" = 1'-0"



POST BASE SECTION
3" = 1'-0"



RAIL POST ANCHORAGE (ASSEMBLY)
3" = 1'-0"

NOTES:

- LENGTHS OF RAIL SHALL BE ATTACHED TO A MIN. OF FOUR (4) RAIL POSTS WHENEVER POSSIBLE AND, IN ANY CASE, NEVER LESS THAN TWO (2). RAIL POSTS ARE TO BE SET NORMAL TO GRADE, UNLESS OTHERWISE SHOWN ON THE BRIDGE PLANS.
- ONE-PIECE BASE PLATE MAY BE SUBSTITUTED, PROVIDED THAT THE REQUIRED LENGTH IS CUT FROM A ONE-PIECE EXTRUSION AND HAS THE GEOMETRIC SHAPE OF THE TWO-PIECE BASE PLATE.
- IF CUT THREADS ARE USED TO FABRICATE ANCHOR BOLTS, BODY DIAMETER SHALL BE NOT LESS THAN NOMINAL DIAMETER. IF ROLLED THREADS ARE USED, BODY DIAMETER SHALL BE NOT LESS THAN PITCH DIAMETER OF THE THREADS.
- FOUR (4) BOLT, NUT, AND WASHER SETS ARE REQUIRED PER ASSEMBLY. ALL HARDWARE SHALL BE GALVANIZED.

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				By	Date	By	Date
				Designed	HJW 09\20	Checked	KEB 09\20
				Drawn	ECW 09\20	In Charge of	RAL 09\20

Designed by:			
By	Date	By	Date
Designed	HJW 09\20	Checked	KEB 09\20
Drawn	ECW 09\20	In Charge of	RAL 09\20

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THE GOLD STAR MEMORIAL HIGHWAY

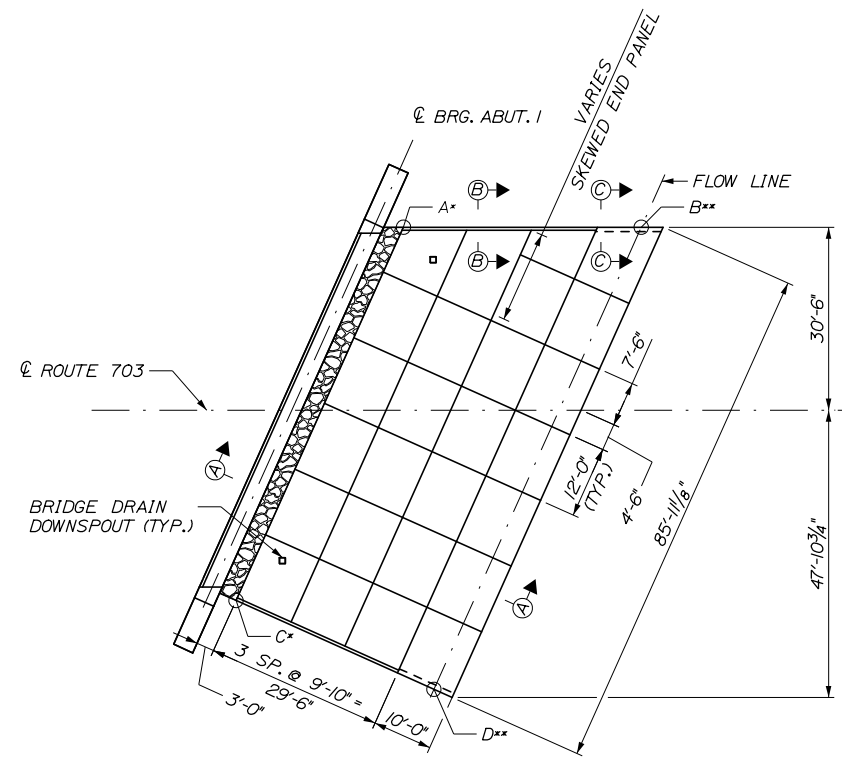
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
ALUMINUM BRIDGE RAILING (1 BAR)

SHEET NUMBER: S-32
CONTRACT: 2021.07
324 OF 431

Date: 1/14/2021

Filename: 295_Slope Protection Plan and Details.dgn

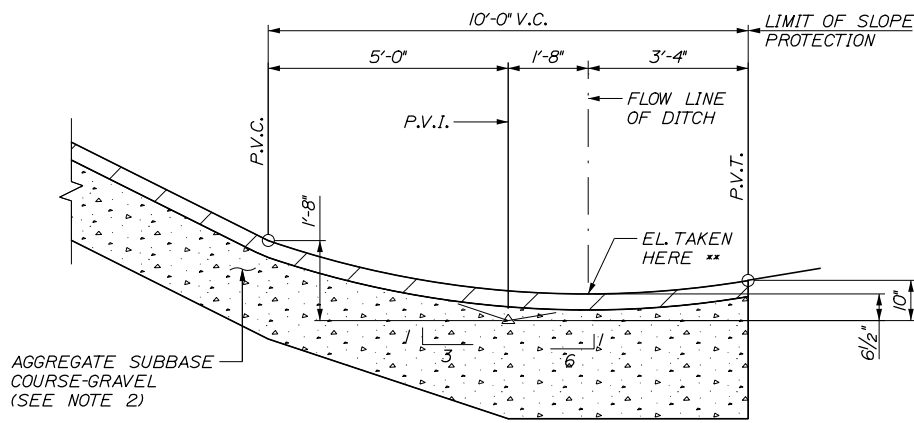
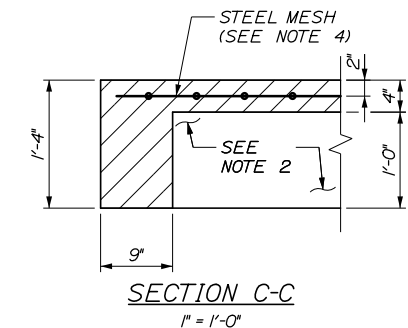
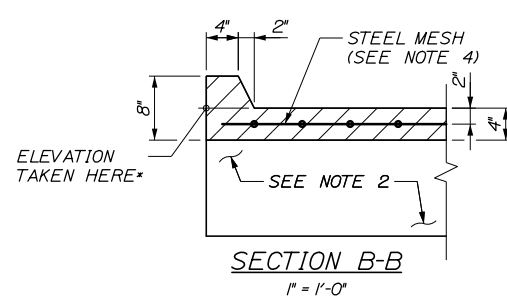
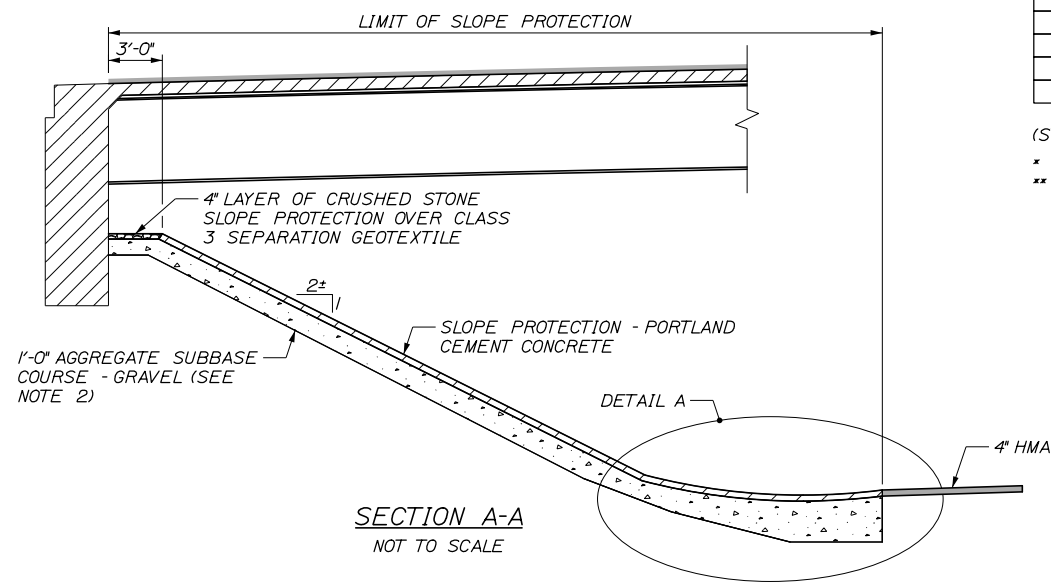
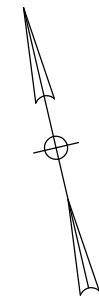
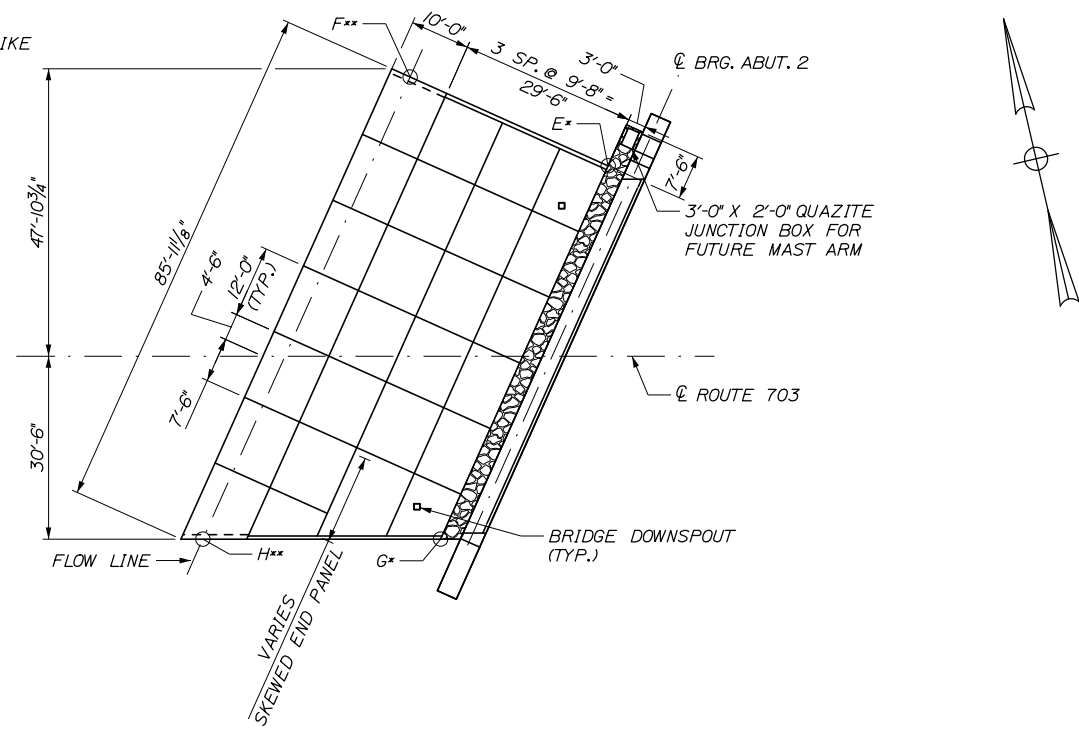


SLOPE PROTECTION PLAN - EXIT 45
(ALL DIMENSIONS HORIZONTAL)
1/16" = 1'-0"

SLOPE PROTECTION LAYOUT TABLE			
	STATION	OFFSET	ELEVATION
A	2220+98.81	120.50 LT	77.25
B	2221+15.03	84.33 LT	62.66
C	2220+30.61	120.50 LT	77.25
D	2220+30.61	84.33 LT	63.34
E	2222+08.28	120.50 RT	78.08
F	2222+08.28	84.33 RT	62.23
G	2221+40.07	120.50 RT	78.08
H	2221+23.85	84.33 RT	62.78

(STATIONS AND OFFSETS ARE MEASURED FROM CL MAIN TURNPIKE)

* ELEVATIONS TAKEN AT TOP OF 4" CONCRETE SLAB.
** ELEVATIONS TAKEN AT LOW POINT OF DITCH.




SLOPE PROTECTION NOTES:

- ALL ELEVATIONS SHOWN ARE TAKEN AT TOP OF SLOPE PROTECTION.
- THE 1'-0" OF AGGREGATE SUBBASE COURSE-GRAVEL, UNDER SLOPE PROTECTION, MAY BE REDUCED OR OMITTED IF, IN THE OPINION OF THE RESIDENT, THE EXISTING MATERIAL IS SUITABLE.
- BREAK BOND AT CONSTRUCTION JOINTS WITH A COAT OF ASPHALT PAINT.
- REINFORCE WITH EPOXY-COATED WWF6X6-W2XW2, NOT TO PASS THRU CONSTRUCTION JOINTS.
- EDGES OF CONSTRUCTION JOINTS SHALL BE FINISHED WITH A SIDEWALK EDGING TOOL TO A DEPTH OF 1/4".
- CLASS 3 SEPARATION GEOTEXTILE WILL BE INCIDENTAL TO ITEM 513.09, "SLOPE PROTECTION - PORTLAND CEMENT CONCRETE". MATERIAL REQUIREMENTS FOR THE CLASS 3 SEPARATION GEOTEXTILE SHALL MEET MAINEDOT STANDARD SPECIFICATION 722.04.

Scale: AS NOTED			
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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
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	Checked		
	KEB	09\20	
	By	Date	
	PEB	09\20	
	In Charge of		
	RAL	09\20	

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

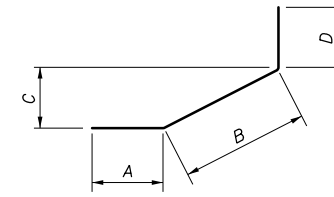
**EXIT 45
INTERCHANGE RECONFIGURATION**

SLOPE PROTECTION PLAN AND DETAILS

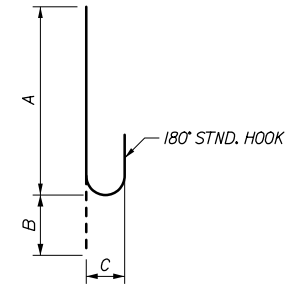
SHEET NUMBER: S-33
CONTRACT: 2021.07
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Date: 1/14/2021

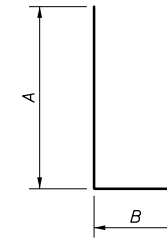
MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	REMARKS
ABUTMENT NO. 1															
A500	5	134	9' - 5"	STR											Vertical Bars for Breastwall
A501	5	16	7' - 3"	STR											Vertical Bars for Wingwall
A502	5	16	9' - 3"	STR											Vertical Bars for Wingwall
A503	5	16	11' - 3"	STR											Vertical Bars for Wingwall
A550	5	180	9' - 4"	129	3'-2"	3'-1"									Top and Bottom Stirrups
A551	5	8	9' - 7"	129	3'-5"	3'-1"									Skewed Stirrup Bar at Wingwall
A552	5	16	4' - 8"	129	3'-0"	0'-10"									Wingwall End Stirrups
A553	5	180	4' - 1 1/2"	135	0'-6"	3'-2"	0'-5 1/2"	0'-3 3/4"							Shear Ties
A554	5	62	7' - 0"	119	3'-0"	4'-0"	2'-10"								Approach Slab Pin
A555	5	1	13' - 3"	119	2'-3"	11'-0"	9'-10"								Wingwall Top Bars, Left
A556	5	1	12' - 10"	119	1'-10"	11'-0"	9'-10"								Wingwall Top Bars, Left
A557	5	1	12' - 4"	119	1'-4"	11'-0"	9'-10"								Wingwall Top Bars, Left
A558	5	1	11' - 11"	119	0'-11"	11'-0"	9'-10"								Wingwall Top Bars, Left
A559	5	1	12' - 2"	119	3'-2"	9'-0"	8'-4"								Wingwall Top Bars, Right
A560	5	1	11' - 9"	119	2'-9"	9'-0"	8'-4"								Wingwall Top Bars, Right
A561	5	1	11' - 3"	119	2'-3"	9'-0"	8'-4"								Wingwall Top Bars, Right
A562	5	1	10' - 10"	119	1'-10"	9'-0"	8'-4"								Wingwall Top Bars, Right
A650	6	60	6' - 6"	118	2'-6"	4'-0"									Bent Bar to Back of Abutment
A651	6	60	7' - 2"	105	2'-6"	2'-2"	2'-6"	1'-6"							Corbel Bar to Back of Abutment
A800	8	52	32' - 6"	STR											Longitudinal Bars for Breastwall
A801	8	76	19' - 6"	STR											Longitudinal Bars for Wingwall
ABUTMENT NO. 2															
B500	5	134	9' - 5"	STR											Vertical Bars for Breastwall
B501	5	16	7' - 3"	STR											Vertical Bars for Wingwall
B502	5	16	9' - 3"	STR											Vertical Bars for Wingwall
B503	5	16	11' - 3"	STR											Vertical Bars for Wingwall
B550	5	180	9' - 4"	129	3'-2"	3'-1"									Top and Bottom Stirrups
B551	5	8	9' - 7"	129	3'-5"	3'-1"									Skewed Stirrup Bar at Wingwall
B552	5	16	4' - 8"	129	3'-0"	0'-10"									Wingwall End Stirrups
B553	5	180	4' - 1 1/2"	135	0'-6"	3'-2"	0'-5 1/2"	0'-3 3/4"							Shear Ties
B554	5	62	7' - 0"	119	3'-0"	4'-0"	2'-10"								Approach Slab Pin
B555	5	1	12' - 8"	119	2'-3"	10'-5"	9'-4"								Steel, Wingwall Top Bars, Right
B556	5	1	12' - 3"	119	1'-10"	10'-5"	9'-4"								Wingwall Top Bars, Right
B557	5	1	11' - 9"	119	1'-4"	10'-5"	9'-4"								Wingwall Top Bars, Right
B558	5	1	11' - 4"	119	0'-11"	10'-5"	9'-4"								Wingwall Top Bars, Right
B559	5	1	12' - 2"	119	3'-2"	9'-0"	8'-4"								Wingwall Top Bars, Left
B560	5	1	11' - 9"	119	2'-9"	9'-0"	8'-4"								Wingwall Top Bars, Left
B561	5	1	11' - 4"	119	2'-4"	9'-0"	8'-4"								Wingwall Top Bars, Left
B562	5	1	10' - 10"	119	1'-10"	9'-0"	8'-4"								Wingwall Top Bars, Left
B563	5	1	133' - 6"	146	2'-6"	0'-4"	1'-0"	3'-0"	10'-0"						Spiral, Mast Arm Reinforcing
B564	5	4	8' - 6"	118	3'-3"	5'-3"									Mast Arm Pedestal Top Bars
B650	6	60	6' - 6"	118	2'-6"	4'-0"									Bent Bar to Back of Abutment
B651	6	60	7' - 2"	105	2'-6"	2'-2"	2'-6"	1'-6"							Corbel Bar to Back of Abutment
B800	8	52	32' - 6"	STR											Longitudinal Bars for Breastwall
B801	8	76	19' - 6"	STR											Longitudinal Bars for Wingwall
B802	8	15	10' - 0"	STR											Mast Arm Anchorage Reinforcing



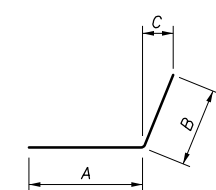
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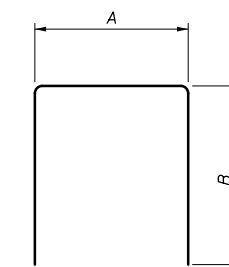
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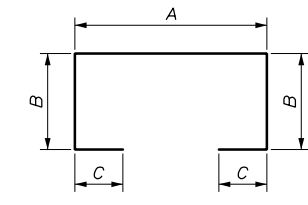
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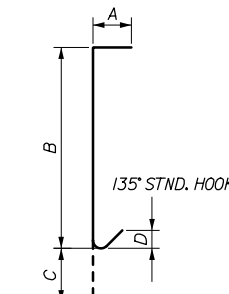
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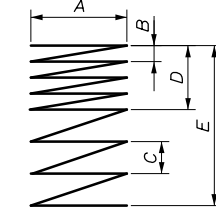
TYPE 129



TYPE 132



TYPE 135



TYPE 146

Filename: 310_Reinforcing Schedule 1.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

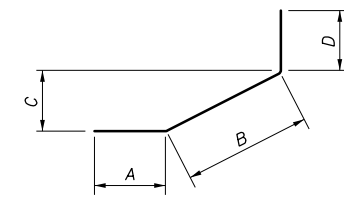
**EXIT 45
INTERCHANGE RECONFIGURATION**

REINFORCING SCHEDULE I

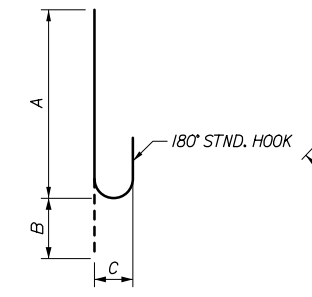
SHEET NUMBER: S-34
CONTRACT: 2021.07
326 OF 431

Date: 1/14/2021

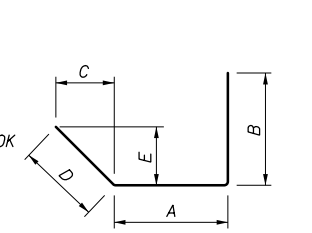
MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	REMARKS
PIER															
P600	6	12	34' - 0"	STR											Longitudinal Straight Bars at Top of Pier Cap over Stem
P601	6	20	33' - 6"	STR											Longitudinal Straight Bars at Each Face of Pier Cap
P602	6	6	47' - 6"	STR											Longitudinal Straight Bars at Bottom of Pier Cap
P603	6	58	47' - 6"	STR											Longitudinal Straight Bars in Pier Stem.
P650	6	12	15' - 5"	105	3'-9"	7'-11"	3'-9"	7'-9"							Longitudinal Bottom of Pier Cap Overhang
P651	6	66	12' - 4"	129	3'-6"	4'-5"									Transverse Stirrups in Pier Cap over Stem
P652	6	168	10' - 10"	129	2'-4"	4'-3"									Transverse Stirrups in Pier Cap Cap Overhang
P653	6	80	9' - 10"	129	2'-4"	3'-9"									Transverse Stirrups in Pier Cap Cap Overhang
P654	6	12	5' - 6"	129	3'-6"	1'-0"									Cap End Stirrups
P655	6	28	5' - 6"	129	3'-6"	1'-0"									Cap Bearing Anchorage
P656	6	58	11' - 0"	129	3'-0"	4'-0"									Longitudinal Stirrups in Pier Shaft
P657	6	852	4' - 8"	135	1'-0"	3'-0"	0'-8"	0'-4 1/2"							Shear Ties for Pier Shaft Reinforcement
P658	6	26	52' - 6"	129	50'-6"	1'-0"									Longitudinal Stirrups in Pier Footing Top & Bot
P800	8	198	20' - 10"	STR											Vertical Bars in Pier Shaft and Pier Cap
P801	8	52	11' - 4"	STR											Straight Bars Footing Transverse Top
P850	8	198	10' - 0"	118	8'-8"	1'-4"									Vertical Hooks in Pier Shaft and Pier Footing
P851	8	102	14' - 0"	129	11'-4"	1'-4"									Transverse Stirrups in Pier Footing
P1150	11	24	24' - 0"	118	22'-0"	2'-0"									Longitudinal Hooks in Top of Pier Cap Overhang
SUPERSTRUCTURE															
S500	5	1110	47' - 3"	STR											Deck Transverse Reinforcing
S501	5	1110	20' - 0"	STR											Deck Transverse Reinforcing
S502	5	320	51' - 6"	STR											Deck Longitudinal, Sequence 1 & 3
S503	5	640	46' - 6"	STR											Deck Longitudinal Sequence 2 & 3
S504	5	40	58' - 5"	STR											Longitudinal Curb
S505	5	96	15' - 8"	STR											Parapet Longitudinal, M+ Region
S506	5	80	7' - 8"	STR											Parapet Longitudinal, M- Region
S507	5	16	5' - 2"	STR											End Post Longitudinal
S508	5	8	3' - 10"	STR											End Post Longitudinal Top
S509	5	8	5' - 0"	STR											End Post Overhang, Top Longitudinal
S550	5	1110	5' - 7"	108	5'-0"	0'-7"	0'-5"								Deck Overhang Reinforcing
S551	5	8	4' - 3"	119	1'-7"	2'-8"	1'-0"								Deck Transverse (Phase 1) Ends
S552	5	8	4' - 11"	118	2'-3"	2'-8"									Deck Transverse (Phase 1) Ends
S553	5	8	5' - 0"	119	2'-6"	2'-6"	0'-4"								End Post Overhang, Bottom Longitudinal
S600	6	38	60' - 0"	STR											Deck Transverse Reinforcing
S601	6	38	34' - 0"	STR											Deck Transverse Reinforcing
S650	6	1144	4' - 3"	118	3'-3"	1'-0"									Parapet Vertical Reinforcing
S651	6	544	3' - 7"	127	0'-7"	1'-6"	1'-6"								Parapet Top Stirrup
S652	6	16	5' - 6"	127	0'-6"	2'-6"	2'-6"								End Post Top Stirrup
S653	6	8	4' - 10"	127	0'-6"	2'-2"	2'-2"								Front End Post Top Stirrup
S654	6	32	7' - 11"	129	0'-7"	3'-4"	3'-4"								End Post Nose Stirrups
S655	6	4	3' - 5"	132	0'-9"	0'-7"	0'-9"								End Post Overhang Stirrup
S656	6	4	3' - 10"	132	0'-10"	0'-8"	0'-10"								End Post Overhang Stirrup
S657	6	4	4' - 6"	132	1'-0"	0'-9"	1'-0"								End Post Overhang Stirrup
S658	6	4	4' - 9"	132	1'-1"	0'-10"	1'-0"								End Post Overhang Stirrup
APPROACH SLAB															
AS500	5	78	19' - 8"	STR											Longitudinal Top
AS501	5	84	44' - 4"	STR											Transverse Top and Bottom
AS502	5	84	20' - 0"	STR											Transverse Top and Bottom
AS550	5	114	3' - 10 1/2"	109	0'-8"	1'-4"	1'-4"	1'-10 1/2"	1'-4"						Seat Stirrup
AS700	7	226	19' - 8"	STR											Longitudinal Bottom
SLEEPER SLAB															
SS500	5	228	5' - 1"	STR											Sleeper Slab Footing
SS501	5	40	44' - 4"	STR											Sleeper Slab Longitudinal
SS502	5	40	20' - 0"	STR											Sleeper Slab Longitudinal
SS550	5	228	3' - 2"	118	2'-4"	0'-10"									Sleeper Slab Stem
SS551	5	114	4' - 3"	129	1'-3"	1'-6"									Sleeper Slab Top



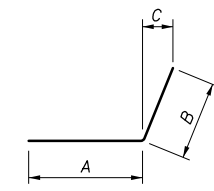
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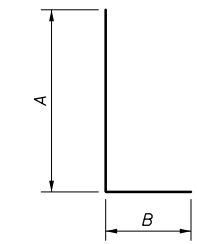
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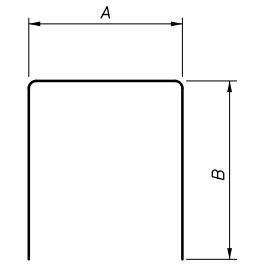
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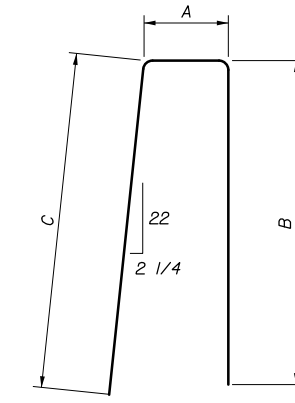
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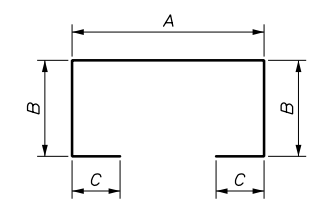
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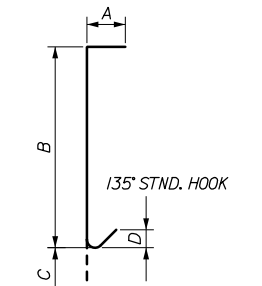
TYPE 129



TYPE 127



TYPE 132



TYPE 135

Filename: 311_Reinforcing Schedule II.dgn

Scale: AS NOTED

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed	HJW 09\20	Checked	KEB 09\20
Drawn	ERB 09\20	In Charge of	RAL 09\20

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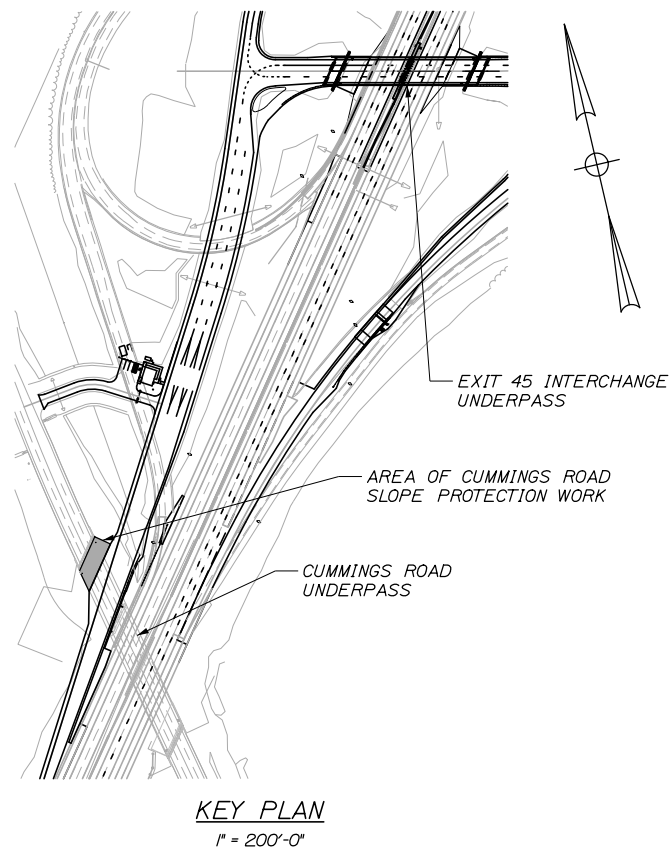
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

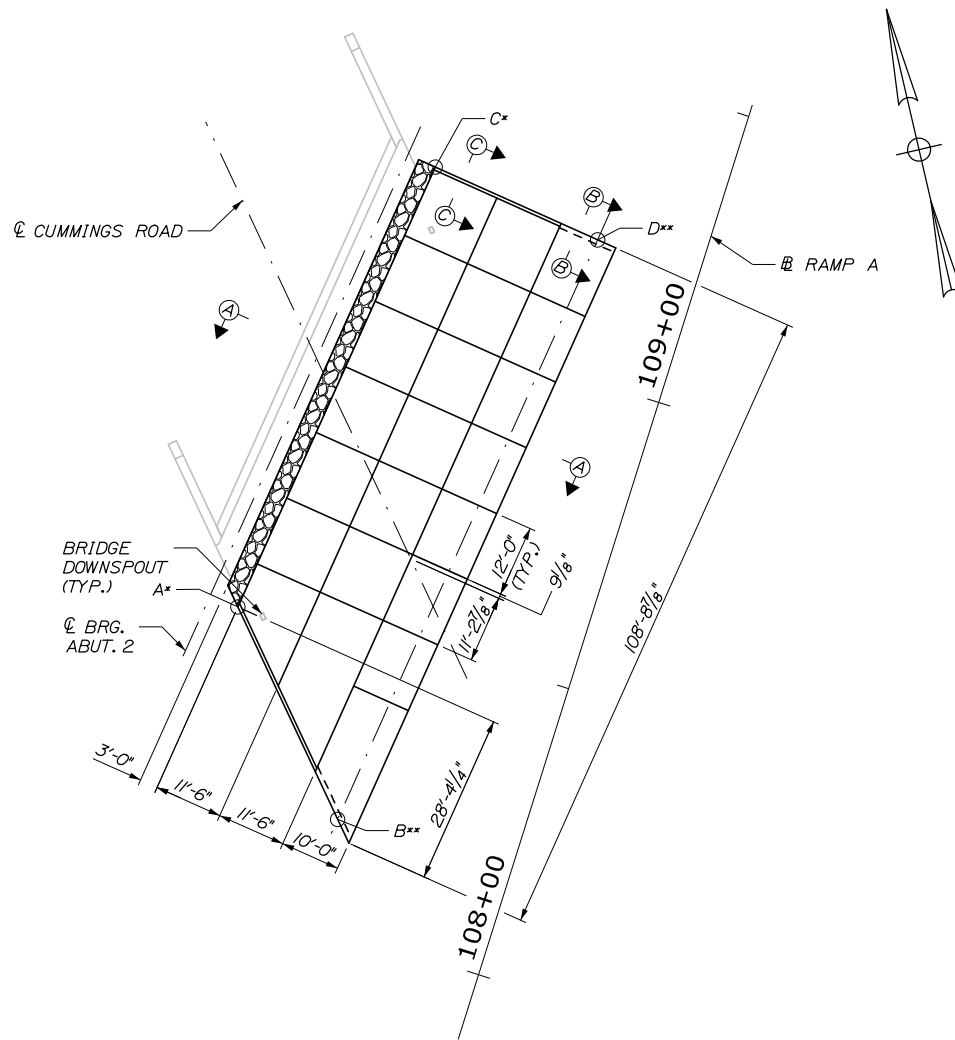
EXIT 45
INTERCHANGE RECONFIGURATION
REINFORCING SCHEDULE II

SHEET NUMBER: S-35
CONTRACT: 2021.07
327 OF 431

Date: 1/14/2021



KEY PLAN
1" = 200'-0"



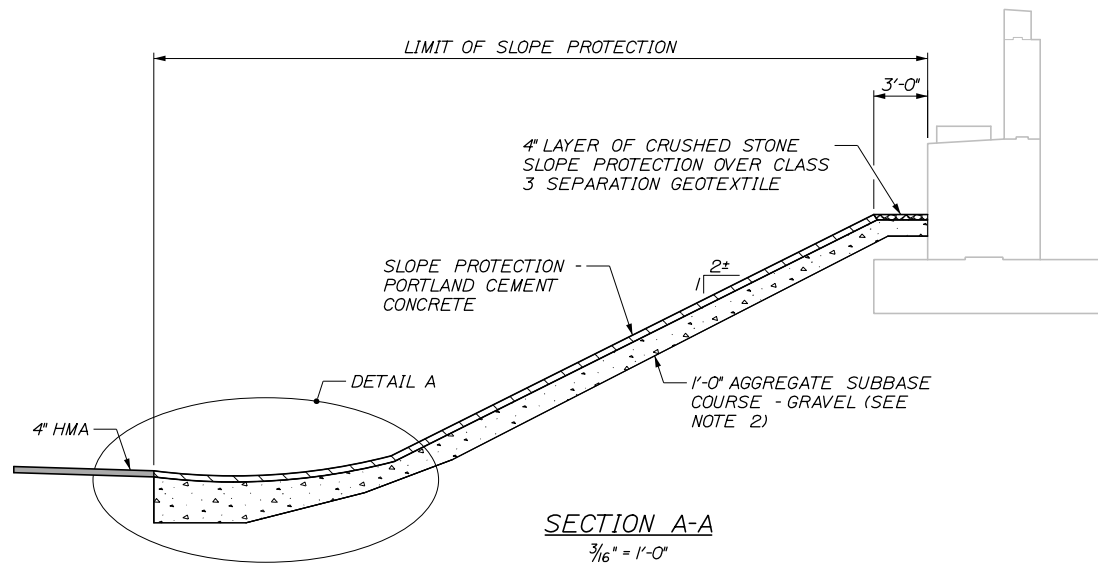
SLOPE PROTECTION PLAN - CUMMINGS ROAD
(REMAINING SUBSTRUCTURE NOT SHOWN)
(ALL DIMENSIONS HORIZONTAL)
1/16" = 1'-0"

SLOPE PROTECTION NOTES:

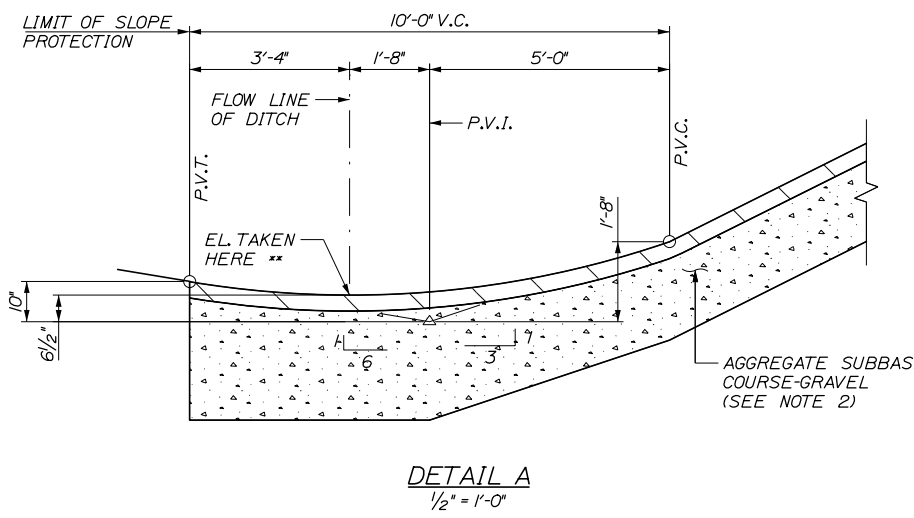
1. ALL ELEVATIONS SHOWN ARE TAKEN AT TOP OF SLOPE PROTECTION.
 2. THE 1'-0" OF AGGREGATE SUBBASE COURSE-GRAVEL, UNDER SLOPE PROTECTION, MAY BE REDUCED OR OMITTED IF, IN THE OPINION OF THE ENGINEER, THE EXISTING MATERIAL IS SUITABLE.
 3. BREAK BOND AT CONSTRUCTION JOINTS WITH A COAT OF ASPHALT PAINT.
 4. REINFORCE WITH EPOXY-COATED WWF6X6-W2XW2, NOT TO PASS THRU CONSTRUCTION JOINTS.
 5. EDGES OF CONSTRUCTION JOINTS SHALL BE FINISHED WITH A SIDEWALK EDGING TOOL TO A DEPTH OF 1/4".
 6. CLASS 3 SEPARATION GEOTEXTILE WILL BE INCIDENTAL TO ITEM 513.09, "SLOPE PROTECTION - PORTLAND CEMENT CONCRETE". MATERIAL REQUIREMENTS FOR THE CLASS 3 SEPARATION GEOTEXTILE SHALL MEET MAINE DOT STANDARD SPECIFICATION 722.04.
- * ELEVATIONS TAKEN AT TOP OF 4" CONCRETE SLAB.
** ELEVATIONS TAKEN AT LOW POINT OF DITCH.

SLOPE PROTECTION LAYOUT TABLE			
	STATION	OFFSET	ELEVATION
A	108+46.43	56.68' LT	77.00
B	108+17.63	30.19' LT	66.22
C	109+26.26	47.31' LT	77.00
D	109+22.80	17.85' LT	67.24

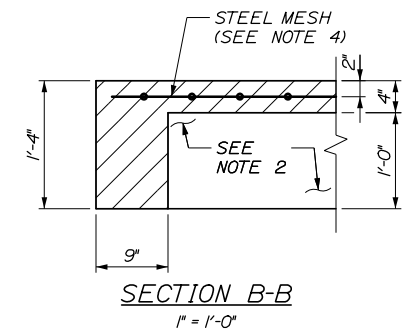
(STATIONS AND OFFSETS ARE MEASURED FROM CUMMINGS ROAD RAMP A)



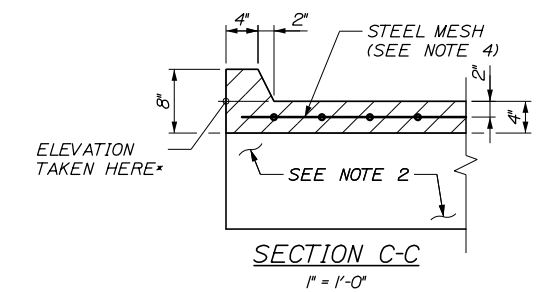
SECTION A-A
3/16" = 1'-0"



DETAIL A
1/2" = 1'-0"



SECTION B-B
1" = 1'-0"




SECTION C-C
1" = 1'-0"

Filename: 296_Slope Protection Plan and Details Cummings Road.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	PEB	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
CUMMINGS ROAD
SLOPE PROTECTION PLAN AND DETAILS**

SHEET NUMBER: S-36

CONTRACT: 2021.07 328 OF 431

BARRIER NOTES:

1. INSTALLATION OF THE BARRIER REFLECTORS AT SPACING SHOWN IN TABLE I WILL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
2. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL PROVIDE A MASH COMPLIANT END TREATMENT. SEE SHEET S-39 FOR ADDITIONAL INFORMATION.
3. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL VERTICAL, SLOPED, AND TOP SURFACES OF MEDIAN BARRIER, PIER PROTECTION BARRIER, AND BARRIER TRANSITION PIECES, INCLUDING BARRIER ENDS AND EXCLUSIVE OF BURIED OVERTURNING SLABS, IN ACCORDANCE WITH SPECIAL PROVISION 515. CLEAR PROTECTIVE COATING FOR MEDIAN BARRIER, PIER PROTECTION BARRIER, AND BARRIER TRANSITION PIECES SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
4. ANY NECESSARY DEWATERING OF FOUNDATION EXCAVATION FOR INSTALLATION OF EARTH RETAINING BARRIER OR PIER PROTECTION BARRIER SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
5. EXPANSION JOINTS FOR TYPE D BARRIER SHALL BE PROVIDED EVERY 50 FT. CONTRACTION JOINTS SHALL BE PROVIDED EVERY 25 FT. CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAILS SECTION 502.
6. EXCAVATION AND GRANULAR BORROW BEDDING MATERIAL FOR INSTALLATION OF ALL BARRIER AND ASSOCIATED TRANSITIONS SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
7. THE TOP OF THE BARRIER SHALL BE FLUSH ACROSS ALL JOINTS, INCLUDING CONSTRUCTION, CONTRACTION, EXPANSION, AND STRUCTURAL TUBE CONNECTIONS. THE TOP OF THE BARRIER, EXCEPT AS REQUIRED AT HEIGHT TRANSITIONS, SHALL BE PARALLEL TO THE PAVEMENT SURFACE AT EDGE OF TRAVELWAY.
8. SCREW PIN SHALL BE SECURED WITH AN APPROVED THREAD LOCK MATERIAL DURING FINAL ASSEMBLY.
9. A D-SHACKLE SHALL BE ATTACHED TO EACH I-BEAM.
10. TYPE B BARRIER MAY BE USED AT ANY LOCATION IN PLACE OF TYPE A BARRIER AT THE CONTRACTOR'S DISCRETION AT NO ADDITIONAL COST TO THE AUTHORITY.
11. THE MEDIAN BARRIER LAYOUT AT PIER PROTECTION LOCATIONS HAS BEEN DETAILED SUCH THAT THE TRANSITION BARRIER CAN BE MOVED UP TO FIVE FEET UPSTATION OR DOWNSTATION. THIS ALLOWANCE IS INTENDED TO ALLOW THE OVERALL LENGTH OF THE CAST-IN-PLACE PIER PROTECTION BARRIER SYSTEMS TO VARY TO ACCOMMODATE THE FINAL AS-BUILT LAYOUT OF THE PRECAST MEDIAN BARRIER. ANY CHANGE IN REQUIRED LENGTH OF PRECAST BARRIER OR CAST-IN-PLACE BARRIER DUE TO VARYING THE STARTING STATION OF THE TRANSITION BARRIER WILL BE INCIDENTAL TO THE PLAN QUANTITIES OF THE ASSOCIATED BARRIER PAY ITEM.
12. AT PIER LOCATIONS THE DETAILS INCLUDE REFERENCE ELEVATIONS AT THE START AND END OF BARRIER TRANSITIONS, AT COLUMNS, AND AT OTHER ELEVATION LOCATIONS. THE CONTRACTOR SHALL ADJUST THE REFERENCE ELEVATIONS IN ACCORDANCE WITH THE PROJECT DETAILS TO DEVELOP FINISHED TOP OF BARRIER ELEVATIONS. IF THE CONTRACTOR ADJUSTS THE LOCATION OF BARRIER RUNS AS ALLOWED IN NOTE 11 THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERPOLATING OR EXTRAPOLATING BARRIER GRADES AS REQUIRED TO ACCOMMODATE THE ADJUSTMENT. ANY SUCH ADJUSTMENTS SHALL BE REFLECTED IN THE CONTRACTOR'S WORKING DRAWINGS. BARRIER AND EARTH RETAINING BARRIER SHALL BE PROVIDED EVERY 50 FT. CONTRACTION JOINTS SHALL BE PROVIDED EVERY 25 FT. CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAILS SECTION 502.

STRUCTURAL NOTES:

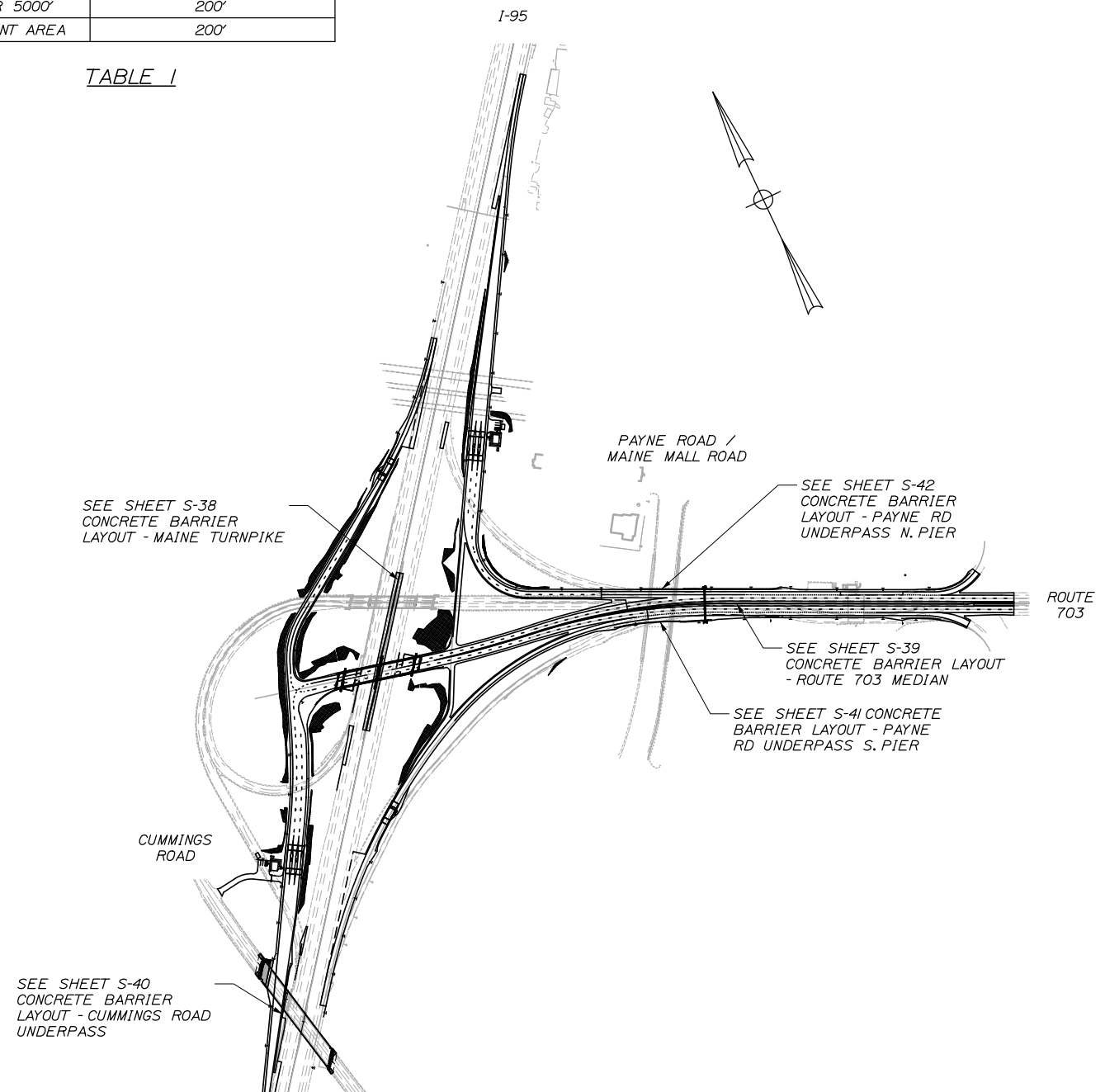
1. PRIOR TO FABRICATING THE PRECAST CONCRETE BARRIER THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS OF THE PROPOSED BARRIER LAYOUT AND ITS COMPONENTS IN ACCORDANCE WITH SPECIAL PROVISION 526.
2. REINFORCING SCHEDULES FOR BARRIER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH DEVELOPING THE REINFORCEMENT SCHEDULES WILL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
3. ALL BARRIER REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 3 INCHES AT THE ENDS OF BARRIER SEGMENTS, AND 2.5 INCHES OF COVER ELSEWHERE, EXCEPT AS OTHERWISE NOTED.
4. ALL PROPOSED BARRIER CONNECTION COMPONENTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 OR A153 AS APPLICABLE.
5. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.

BARRIER LAYOUT NOTES:

1. CONSTRUCT CONCRETE BARRIER AT EXISTING CUMMINGS ROAD BRIDGE UNDERPASS. REFER TO SHEET S-40 FOR ELEVATION VIEW OF BARRIER LOCATION.
2. CONSTRUCT CONCRETE BARRIER AT EXISTING PAYNE ROAD BRIDGE UNDERPASS. REFER TO SHEETS S-41 AND S-42 FOR ELEVATION VIEW OF BARRIER LOCATION.
3. CONSTRUCT CONCRETE BARRIER AT MAINE TURNPIKE MEDIAN. REFER TO SHEET S-38 FOR ELEVATION VIEW OF BARRIER LOCATION.
4. CONSTRUCT CONCRETE BARRIER AT PROPOSED ROUTE 703 MEDIAN. REFER TO SHEET S-39 FOR PLAN AND ELEVATION VIEW OF BARRIER LOCATION.

SPACING OF REFLECTORS	
RADIUS OF HORIZONTAL CURVE	℄ TO ℄ DISTANCE BETWEEN REFLECTORS
LESS THAN 2000'	115'
2000' TO 3000'	130'
3000' TO 5000'	160'
OVER 5000'	200'
TANGENT AREA	200'

TABLE I




BARRIER KEYPLAN
N.T.S.

Date: 1/14/2021

Filename: 297_Barrier Notes and Location Plan.dgn

Scale:		Designed by:	
AS NOTED		HNTB	
No.	Revision	By	Date
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
		By	Date
		Designed	HJW 09\20
		Checked	KEB 09\20
		Drawn	ERB 09\20
		In Charge of	RAL 09\20

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**MAINE
TURNPIKE**

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

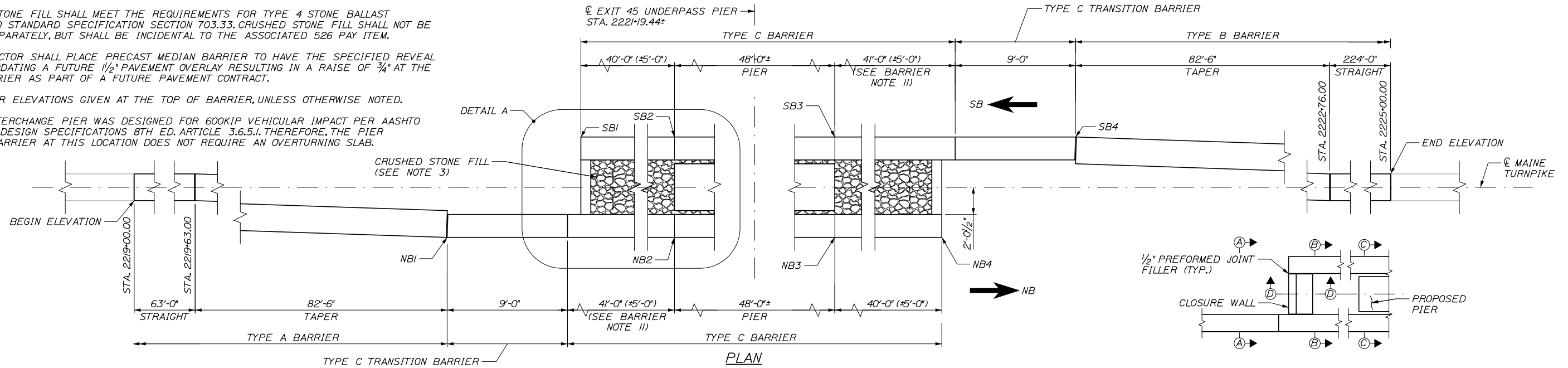
**EXIT 45
INTERCHANGE RECONFIGURATION**

BARRIER NOTES

SHEET NUMBER: S-37
CONTRACT: 2021.07
329 OF 431

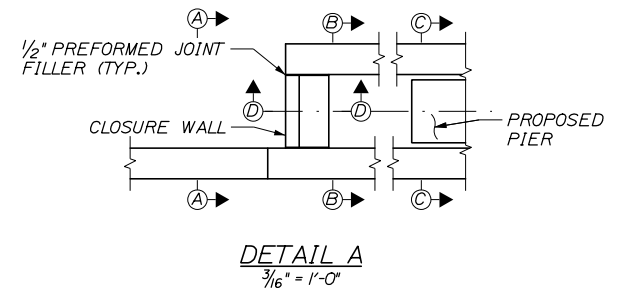
NOTES:

- EMBEDDED LIFTING HANDLE SHALL BE A P140 FORGED FOOT ANCHOR AND T10 VOID FORMER AS MANUFACTURED BY DAYTON SUPERIOR OR SIMILAR AND SHALL HAVE A MINIMUM LENGTH OF 6/2".
- CLOSURE WALL SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCIDENTAL TO ITEM 526.353, TYPE C CONCRETE BARRIER.
- CRUSHED STONE FILL SHALL MEET THE REQUIREMENTS FOR TYPE 4 STONE BALLAST CONFORMING TO STANDARD SPECIFICATION SECTION 703.33. CRUSHED STONE FILL SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
- THE CONTRACTOR SHALL PLACE PRECAST MEDIAN BARRIER TO HAVE THE SPECIFIED REVEAL AFTER ACCOMODATING A FUTURE 1/2" PAVEMENT OVERLAY RESULTING IN A RAISE OF 3/4" AT THE FACE OF BARRIER AS PART OF A FUTURE PAVEMENT CONTRACT.
- ALL BARRIER ELEVATIONS GIVEN AT THE TOP OF BARRIER, UNLESS OTHERWISE NOTED.
- EXIT 45 INTERCHANGE PIER WAS DESIGNED FOR 600KIP VEHICULAR IMPACT PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH ED. ARTICLE 3.6.5.1. THEREFORE, THE PIER PROTECTION BARRIER AT THIS LOCATION DOES NOT REQUIRE AN OVERTURNING SLAB.

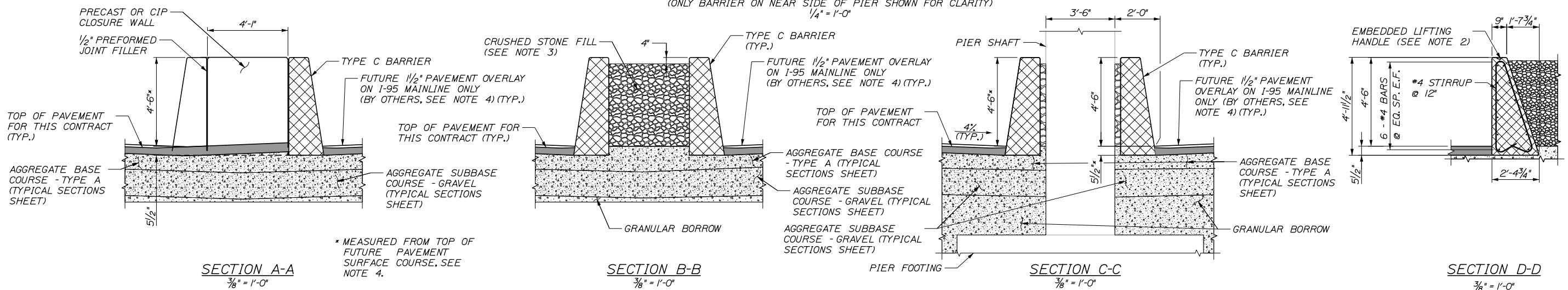
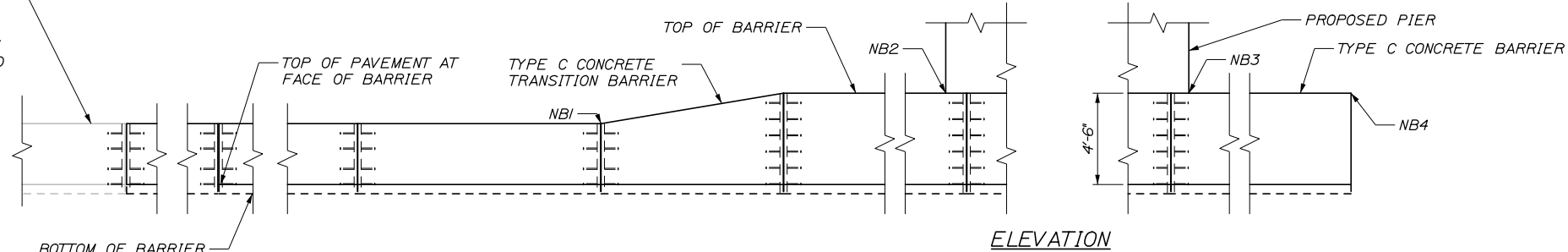


BARRIER ELEVATION TABLE

LOCATION	BEGIN ELEV.	NB1	NB2	NB3	NB4	SBI	SB2	SB3	SB4	END ELEV.
☉ MAINE TURNPIKE, EXIT 45	68.38	67.67	68.74	68.38	68.13	68.91	68.57	68.20	68.02	66.06



REMOVE AND RESET LAST SECTION OF EXISTING CONCRETE MEDIAN BARRIERS AS NECESSARY TO COMPLETE MEDIAN AND DRAINAGE CONSTRUCTION. PAYMENT SHALL BE INCIDENTAL TO OTHER BARRIER ITEMS (TYP.)



Filename: 297a Concrete Barrier - Layout - Interstate 95 Mainline.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
LAYOUT - MAINE TURNPIKE

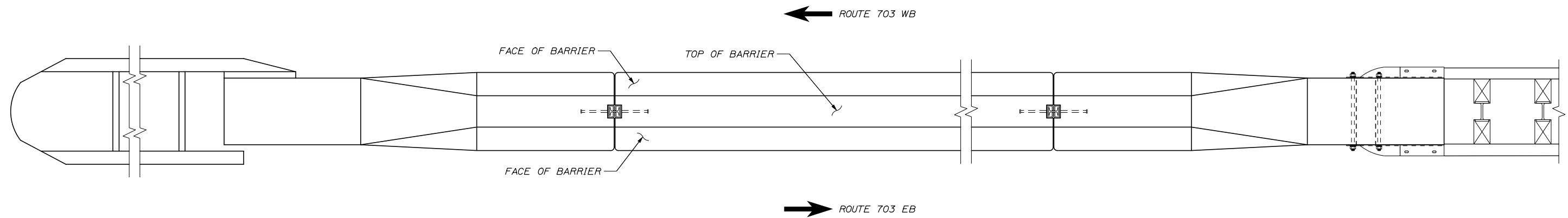
SHEET NUMBER: S-38

CONTRACT: 2021.07

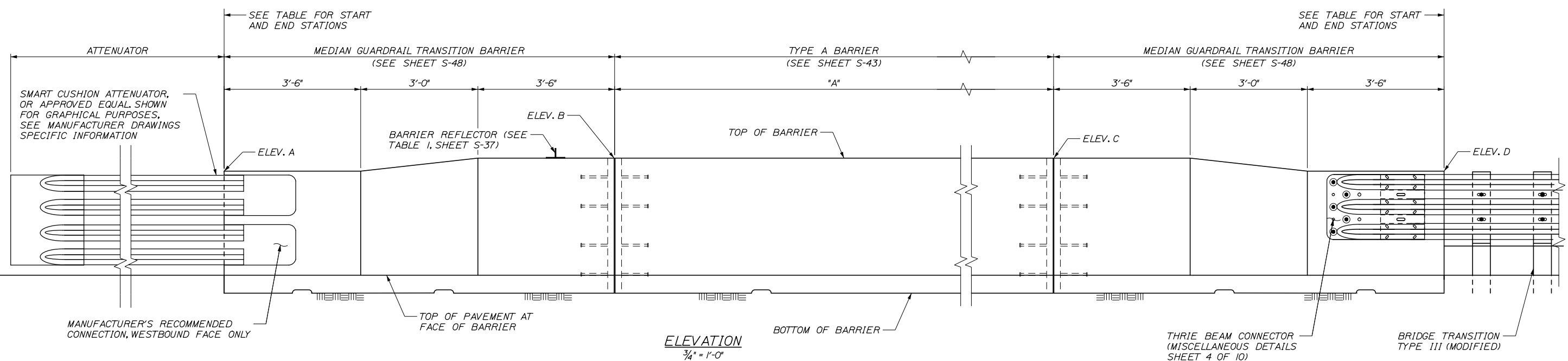
330 OF 431

Date: 1/14/2021

Filename: 297a Concrete Barrier Layout - Route 703 Median.dgn



PLAN
3/4" = 1'-0"



ELEVATION
3/4" = 1'-0"

NOTES:

1. BARRIER PLAN AND ELEVATION ARE SHOWN SCHEMATICALLY; BARRIER FOLLOWS THE HORIZONTAL CURVATURE OF THE ROUTE 703 CENTERLINE AND BARRIER SLOPE FOLLOWS THE ROADWAY PROFILE FOR ROUTE 703 CENTERLINE, ROUTE 703 EASTBOUND, AND ROUTE 703 WESTBOUND.

LOCATION	BASELINE	START STA.	END STA.	LENGTH "A"	ELEV. A	ELEV. B	ELEV. C	ELEV. D
ROUTE 703	℄ ROUTE 703	1053+25.25	1072+30.00	1884.75	81.65	81.42	59.85	59.44

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed	HJW 09\20	Checked	KEB 09\20
Drawn	ERB 09\20	In Charge of	RAL 09\20

HNTB CORPORATION
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
LAYOUT - ROUTE 703 MEDIAN

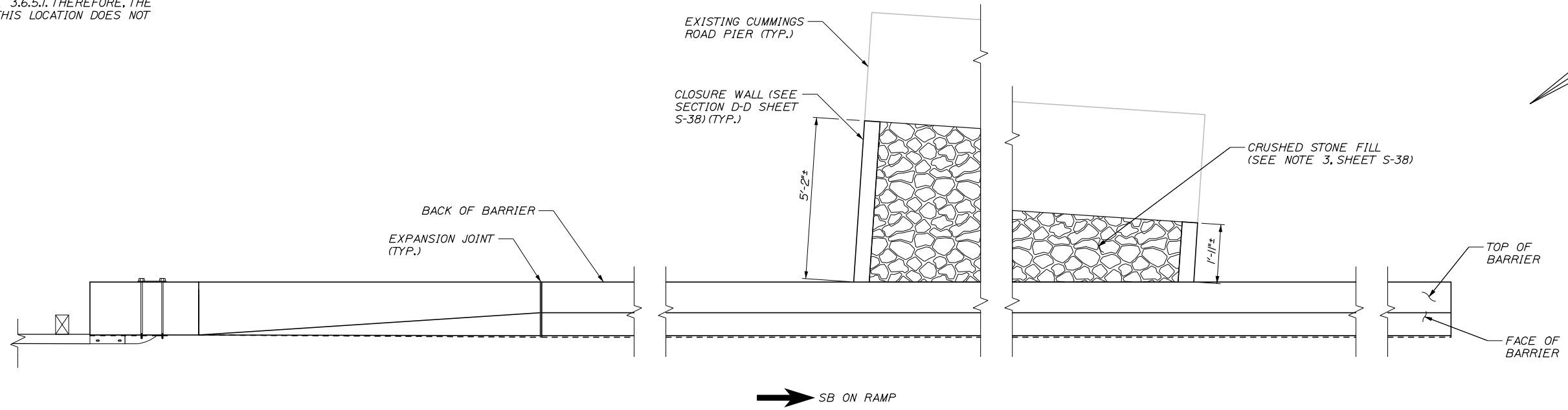
SHEET NUMBER: S-39

CONTRACT: 2021.07

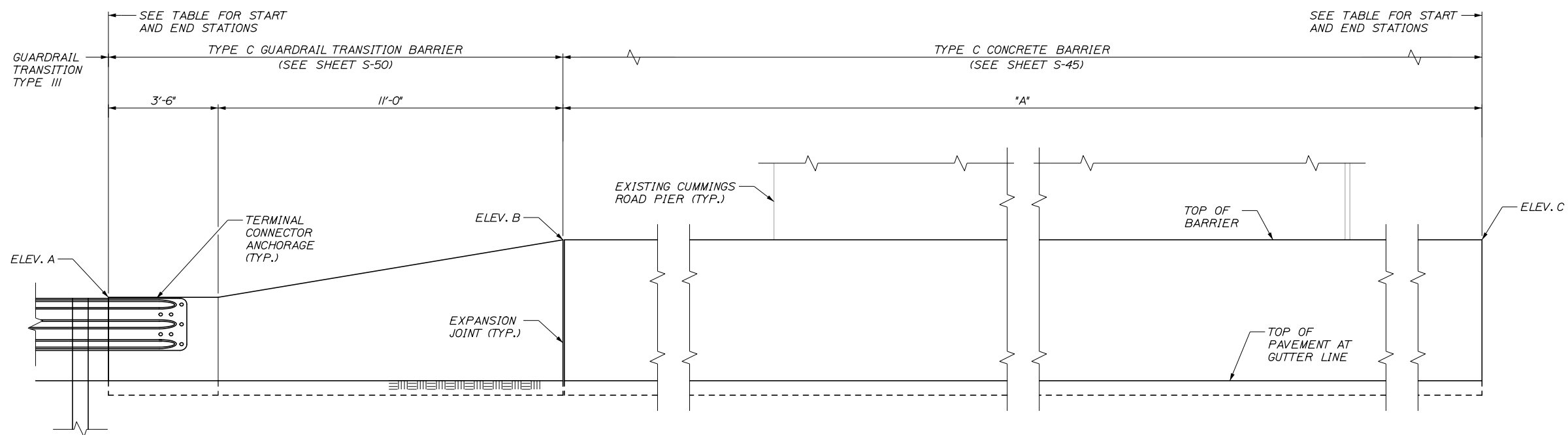
331 OF 431

NOTES:

1. CUMMINGS ROAD PIER WAS DESIGNED FOR 600KIP VEHICULAR IMPACT PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH ED. ARTICLE 3.6.5.I. THEREFORE, THE PIER PROTECTION BARRIER AT THIS LOCATION DOES NOT REQUIRE AN OVERTURNING SLAB.



PLAN
1/2" = 1'-0"



ELEVATION
1/2" = 1'-0"

STRUCTURE	BASELINE	START STA.	END STA.	LENGTH *A*	ELEV. A	ELEV. B	ELEV. C
CUMMINGS ROAD UNDERPASS	RAMP A	108+37.85	107+11.67	111.83'	70.98	72.73	72.29

Date: 1/14/2021

Filename: 297b Concrete Barrier - Layout - Cummings Road Underpass.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed HJW	09\20	Checked KEB	09\20
Drawn ERB	09\20	In Charge of RAL	09\20

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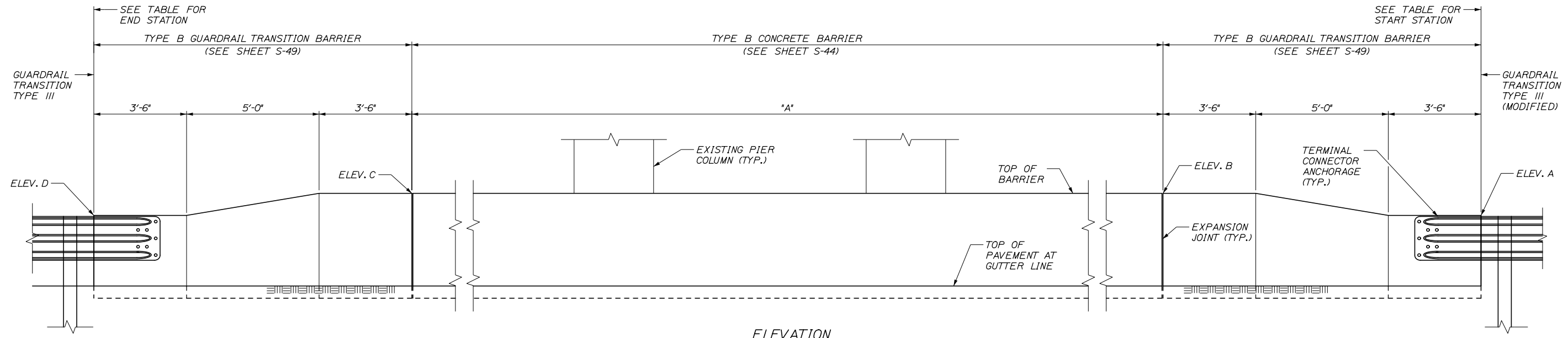
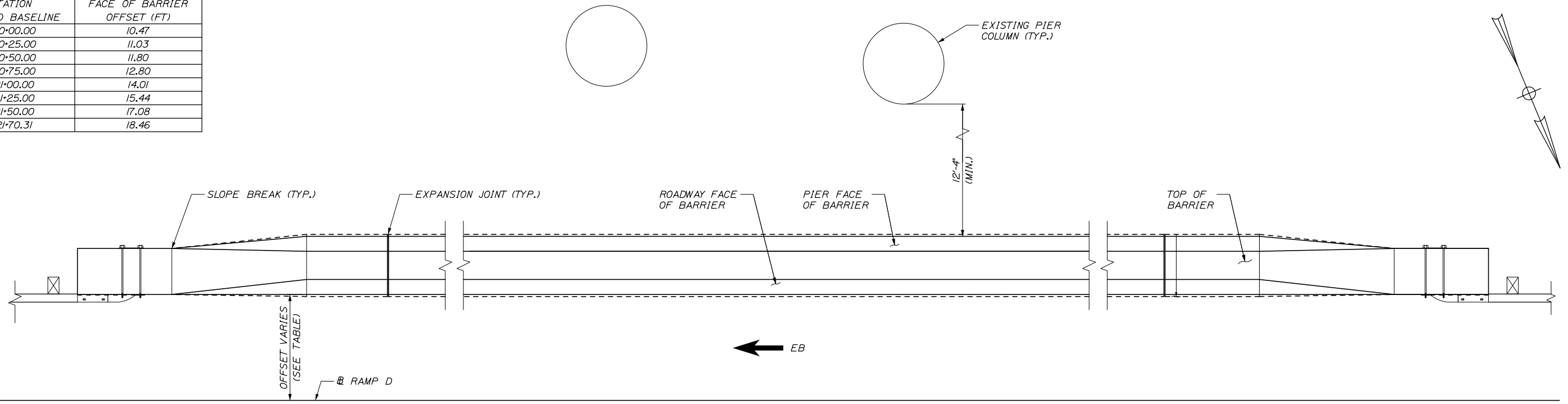
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
LAYOUT - CUMMINGS ROAD UNDERPASS

SHEET NUMBER: S-40
CONTRACT: 2021.07
332 OF 431

STATION	FACE OF BARRIER RAMP D BASELINE	FACE OF BARRIER OFFSET (FT)
420+00.00		10.47
420+25.00		11.03
420+50.00		11.80
420+75.00		12.80
421+00.00		14.01
421+25.00		15.44
421+50.00		17.08
421+70.31		18.46



NOTES:
 1. BARRIER PLAN IS SHOWN SCHEMATICALLY, BARRIER IS PLACED ON A HORIZONTAL CURVE. SEE TABLE FOR FACE OF BARRIER OFFSETS BASED ON RAMP D BASELINE STATIONING.

STRUCTURE	BASELINE	START STA.	END STA.	LENGTH "A"	ELEV. A	ELEV. B	ELEV. C	ELEV. D
PAYNE ROAD UNDERPASS	RAMP D	420+00.00	421+70.31	146.14'	60.87	61.51	59.87	58.98

Date: 1/14/2021

Filename: 297c Concrete Barrier - Layout - Payne Rd. Underpass South Pier.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed HJW	09\20	Checked KEB	09\20
Drawn ERB	09\20	In Charge of RAL	09\20

HNTB CORPORATION
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

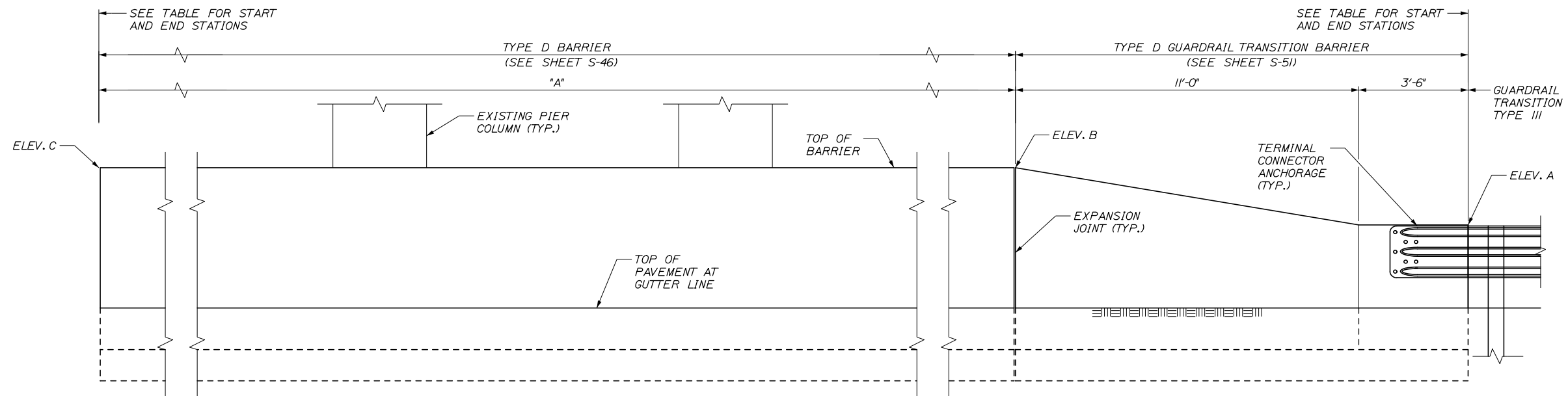
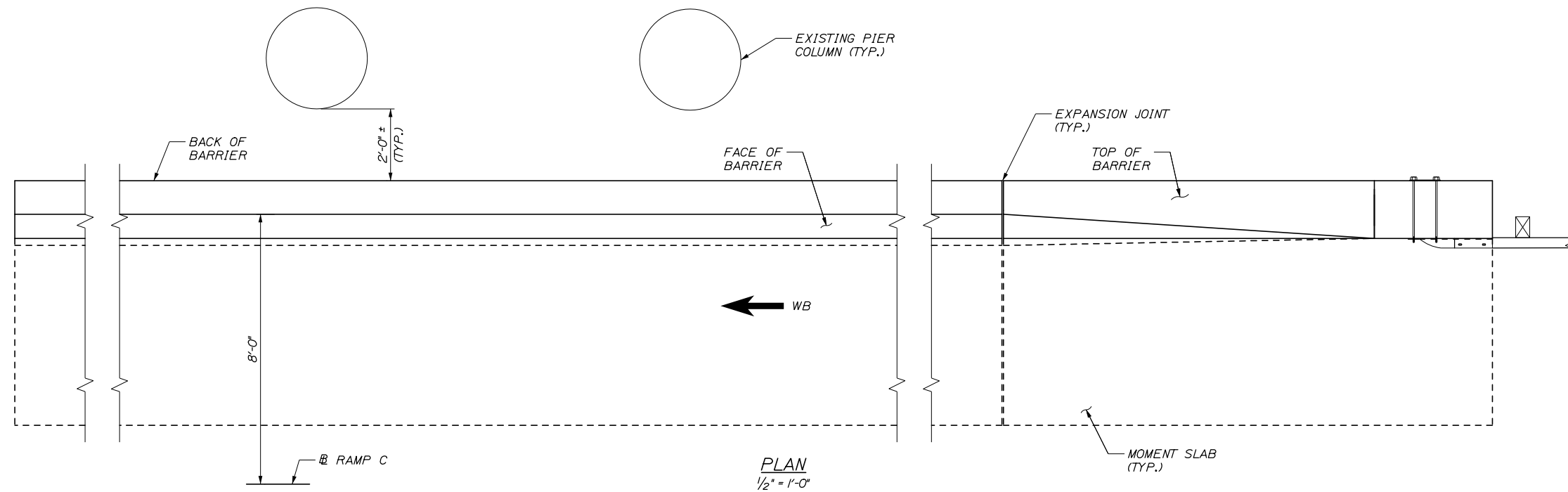
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CONCRETE BARRIER
 LAYOUT - PAYNE RD UNDERPASS S. PIER

SHEET NUMBER: S-41
 CONTRACT: 2021.07
 333 OF 431

Date: 1/14/2021

Filename: 297d Concrete Barrier - Layout - Payne Rd. Underpass North Pier.dgn




STRUCTURE	BASELINE	START STA.	END STA.	LENGTH *A*	ELEV. A	ELEV. B	ELEV. C
PAYNE ROAD UNDERPASS	RAMP C	296+87.50	298+50.00	148.00	59.23	61.12	62.03

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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 Westbrook, ME 04092
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**THE GOLD STAR
MEMORIAL HIGHWAY**

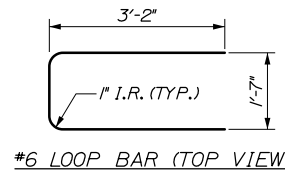
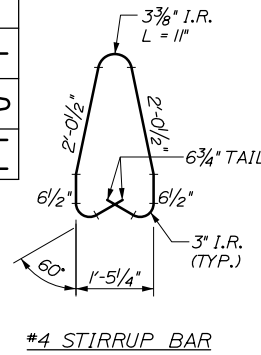
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CONCRETE BARRIER
 LAYOUT - PAYNE RD UNDERPASS N. PIER

SHEET NUMBER: S-42
 CONTRACT: 2021.07
 334 OF 431

Date: 1/14/2021

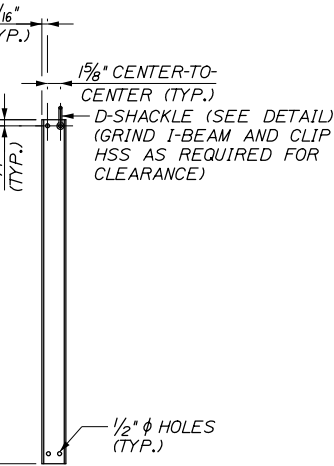
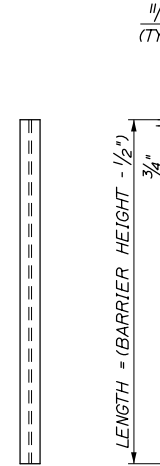
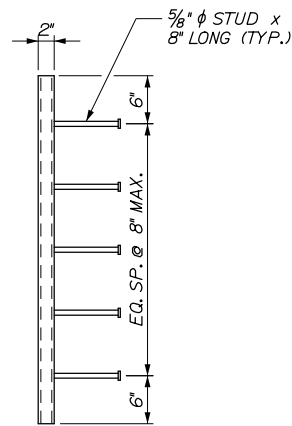
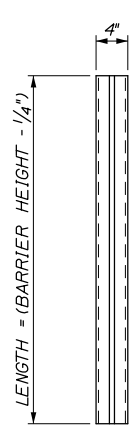
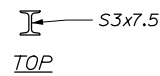
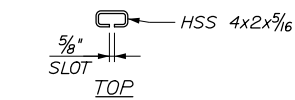
CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	10	19'-6"	
STIRRUPS	#4	29	7'-10"	
LOOP BAR	#6	2	7'-11"	



* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.

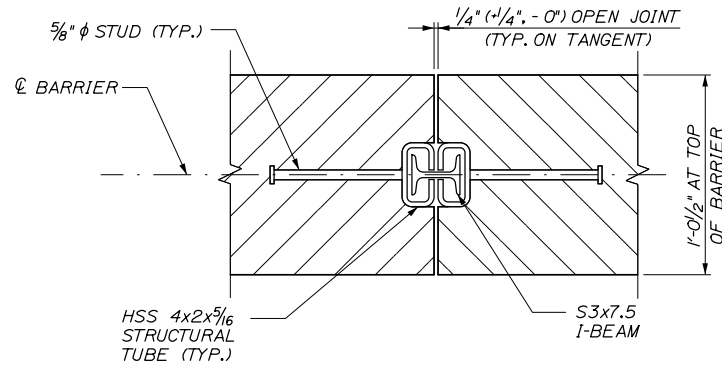
NOTES:

1. FOR BARRIER NOTES, SEE SHEET S-37.

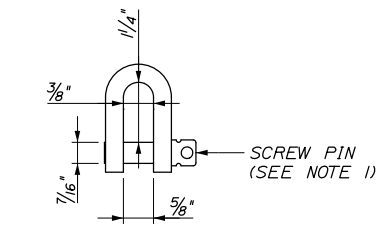


FRONT SIDE
STRUCTURAL TUBE DETAILS
1" = 1'-0"

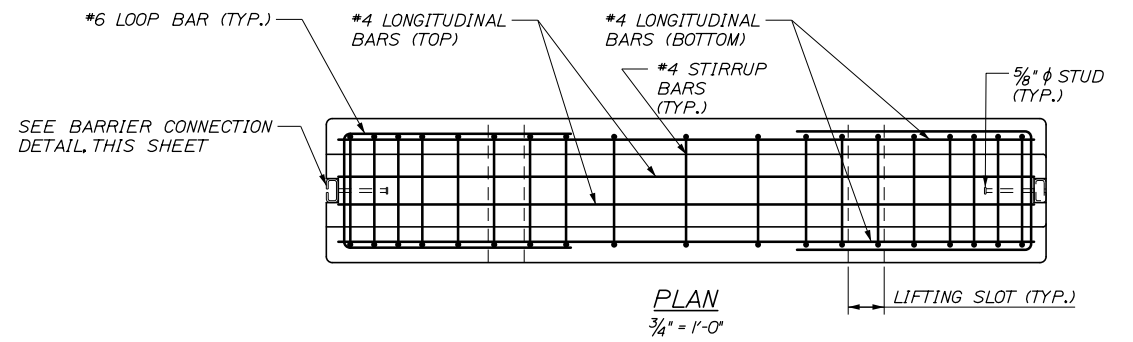
FRONT SIDE
I-BEAM DETAILS
1" = 1'-0"



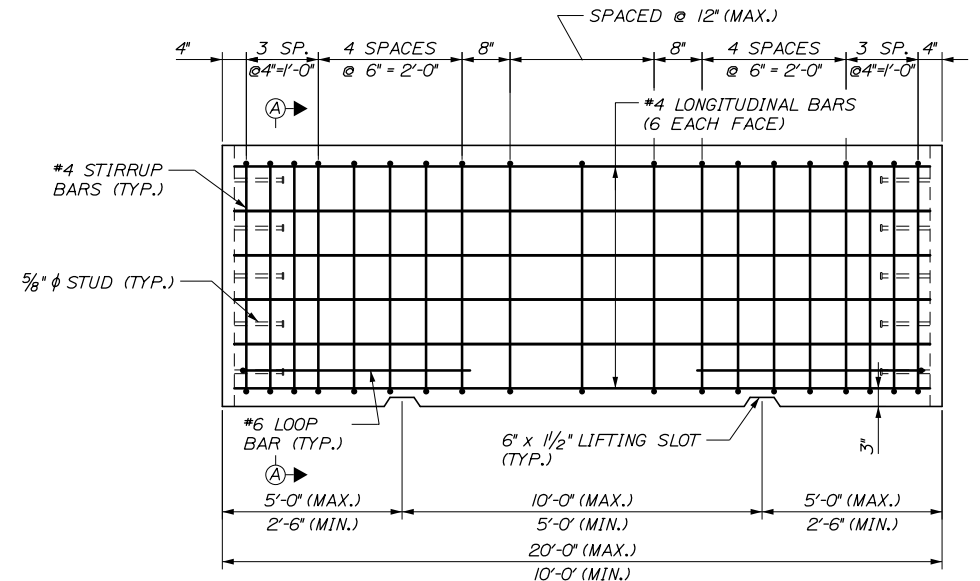
BARRIER CONNECTION DETAIL
2" = 1'-0"



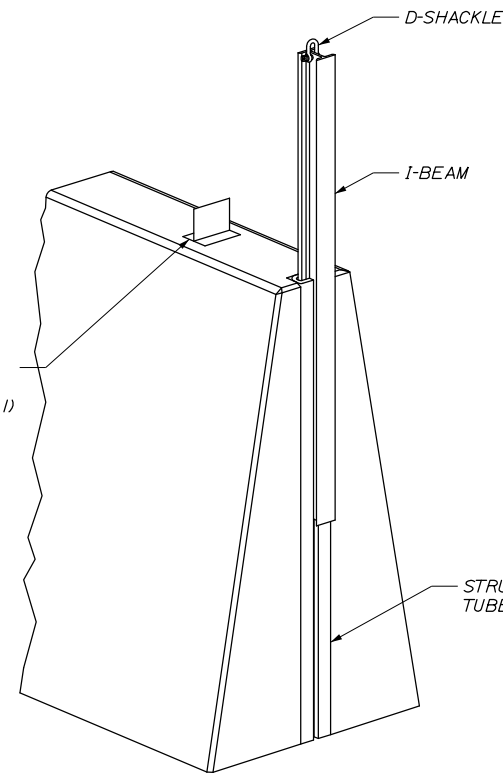
D-SHACKLE DETAIL
(ONE PER I-BEAM)
6" = 1'-0"



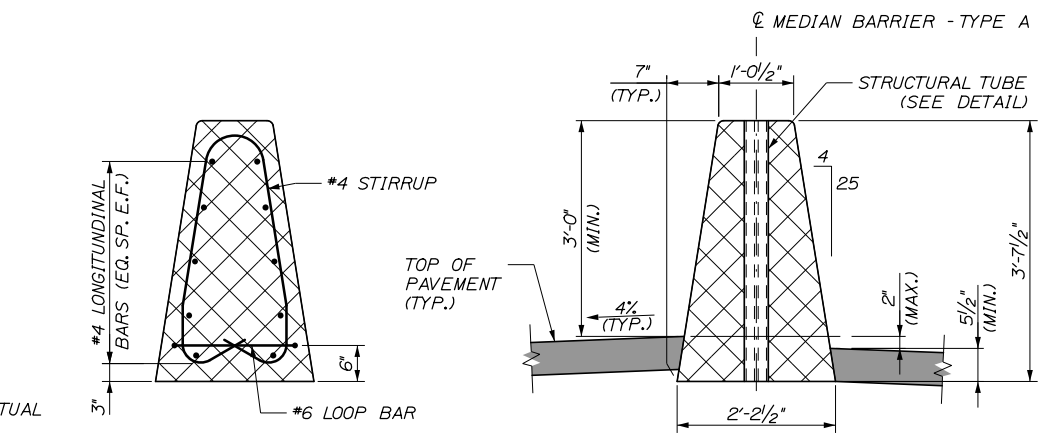
PLAN
3/4" = 1'-0"



ELEVATION
3/4" = 1'-0"



PERSPECTIVE VIEW
NOT TO SCALE



SECTION A-A (REINFORCEMENT)
3/4" = 1'-0"


SECTION A-A (MASONRY)
3/4" = 1'-0"

Filename: 298_Concrete Barrier - Type A.dgn

Scale: AS NOTED				
No.	Revision	By	Date	

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
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FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
TYPE A BARRIER

SHEET NUMBER: S-43

CONTRACT: 2021.07 335 OF 431

Date: 1/14/2021

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	12	19'-6"	
STIRRUPS	#4	19	8'-6"	
LOOP BAR	#6	2	8'-0"	

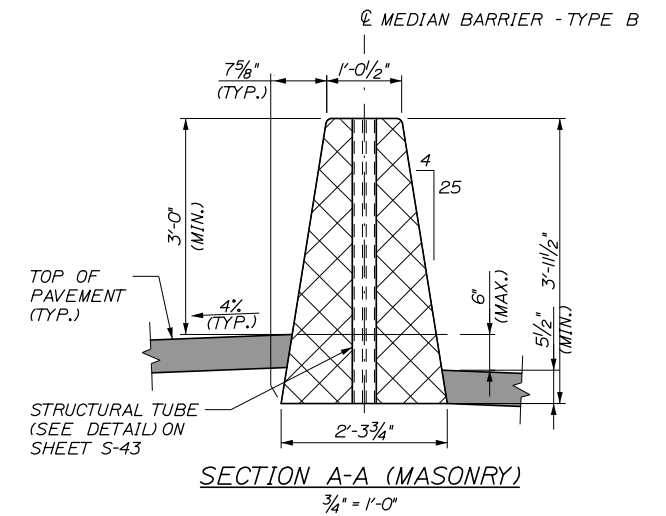
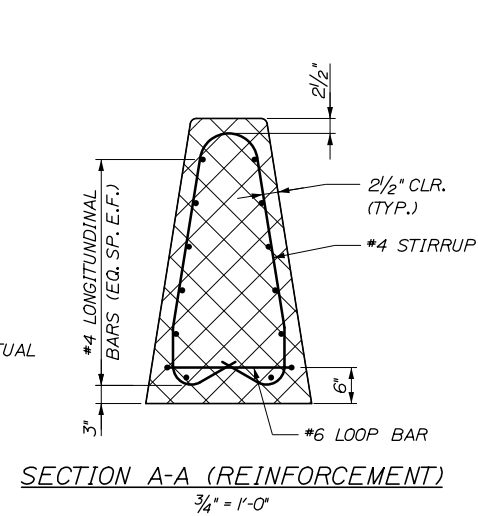
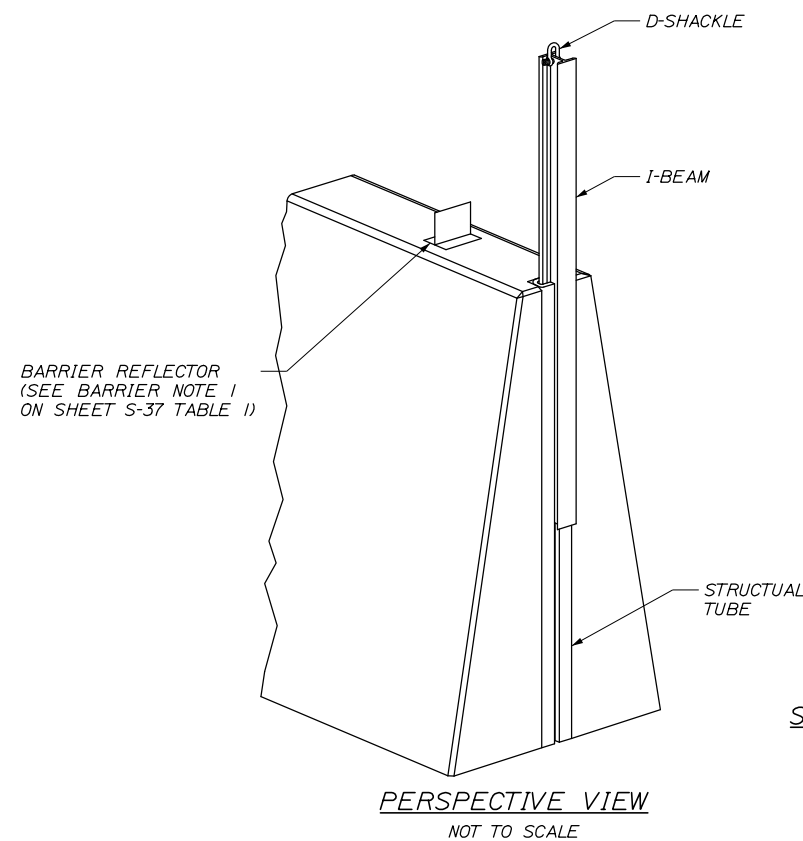
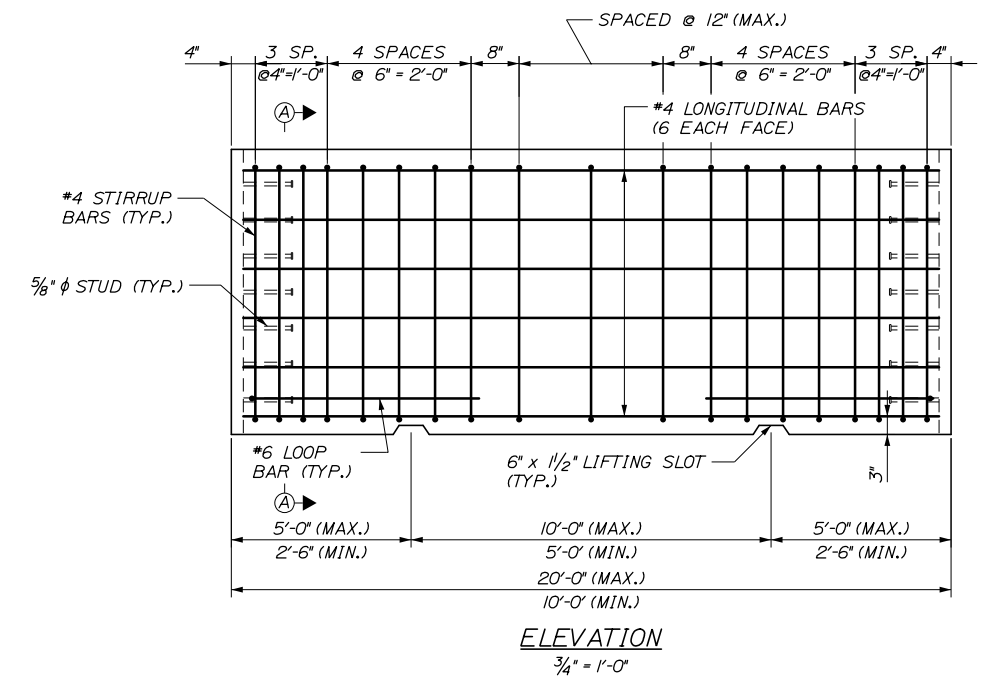
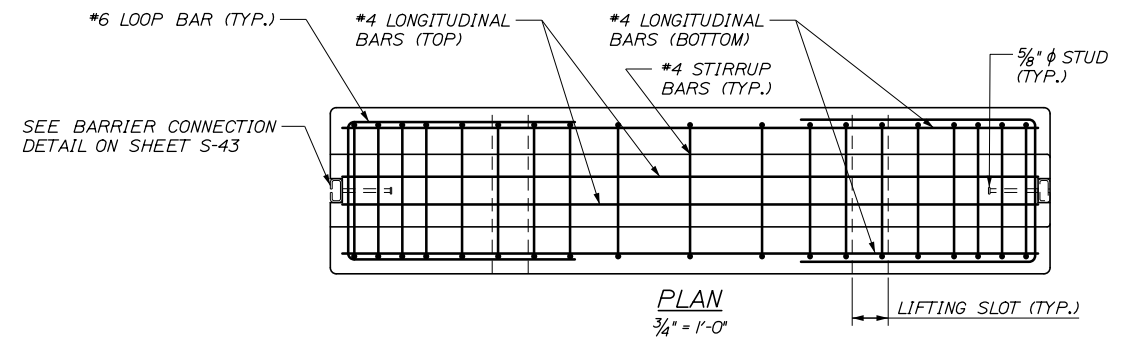
#6 LOOP BAR (TOP VIEW)

#4 STIRRUP BAR

* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.

NOTES:

- FOR BARRIER NOTES, SEE SHEET S-37.
- FOR ADDITIONAL BARRIER CONNECTION DETAILS, SEE SHEET S-43.




Filename: 299_Concrete Barrier - Type B.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	HJW	09\20	Checked	KEB	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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


**THE GOLD STAR
MEMORIAL HIGHWAY**

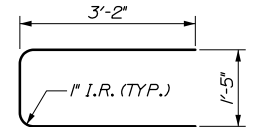
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
TYPE B BARRIER

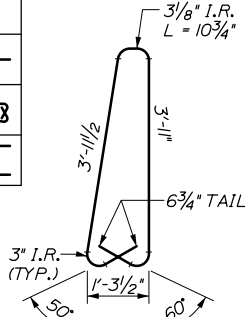
SHEET NUMBER: S-44
CONTRACT: 2021.07
336 OF 431

Date: 1/14/2021

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	14	19'-6"	
STIRRUPS	#4	29	11'-2"	
LOOP BAR	#6	2	7'-9"	



#6 LOOP BAR (TOP VIEW)

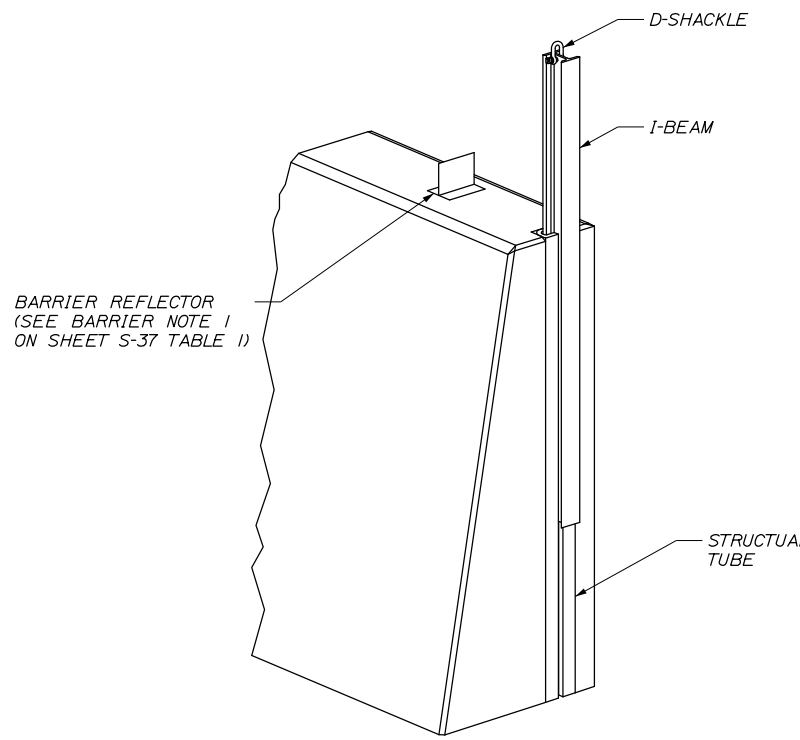
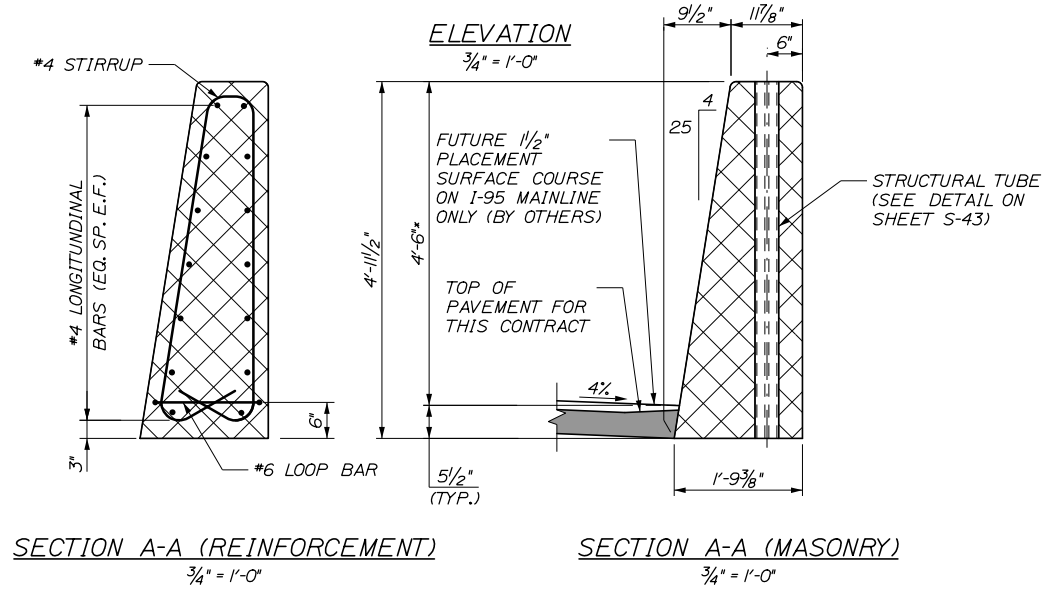
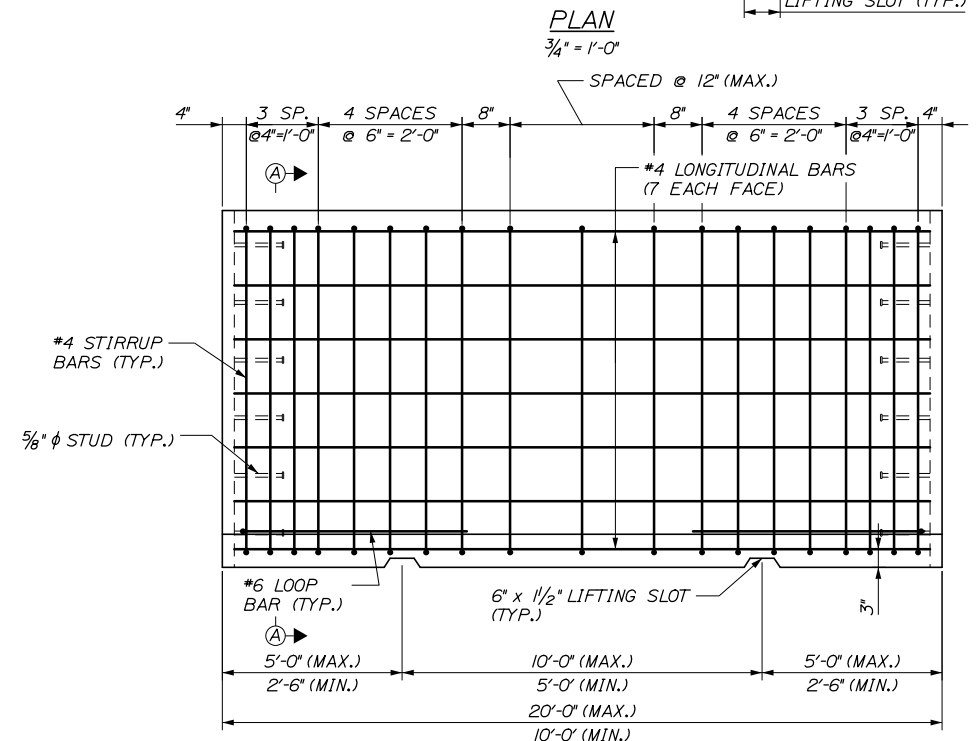
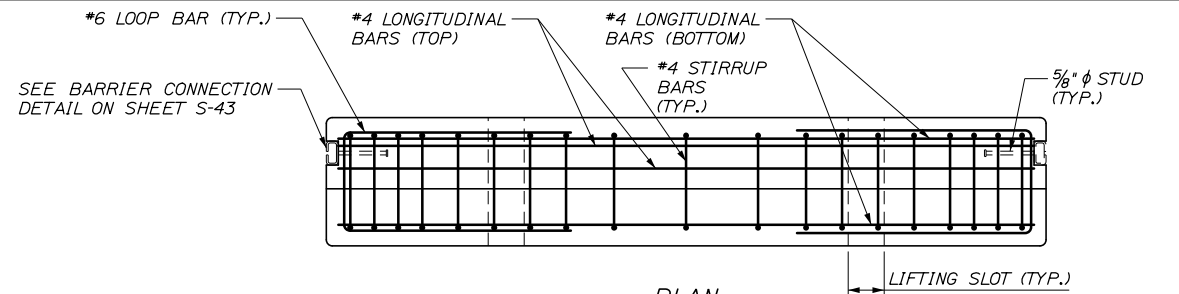


#4 STIRRUP BAR

* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.

NOTES:



1. FOR BARRIER NOTES, SEE SHEET S-37.
2. FOR ADDITIONAL BARRIER CONNECTION DETAILS, SEE SHEET S-43.



PERSPECTIVE VIEW
NOT TO SCALE

* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

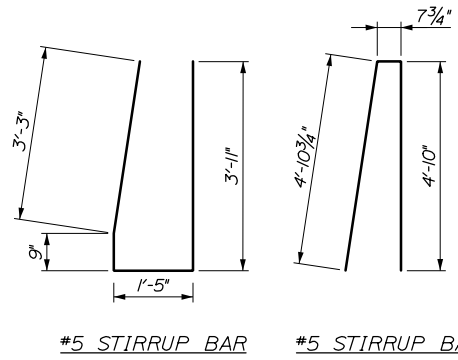
Filename: 300_Concrete Barrier - Type C.dgn

Scale: AS NOTED		Designed by:				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION	
												CONCRETE BARRIER TYPE C BARRIER	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.				MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		CONTRACT: 2021.07		337 OF 431	
				By	Date	By	Date						
				Designed	HJW 09\20	Checked	KEB 09\20						
				Drawn	ERB 09\20	In Charge of	RAL 09\20						

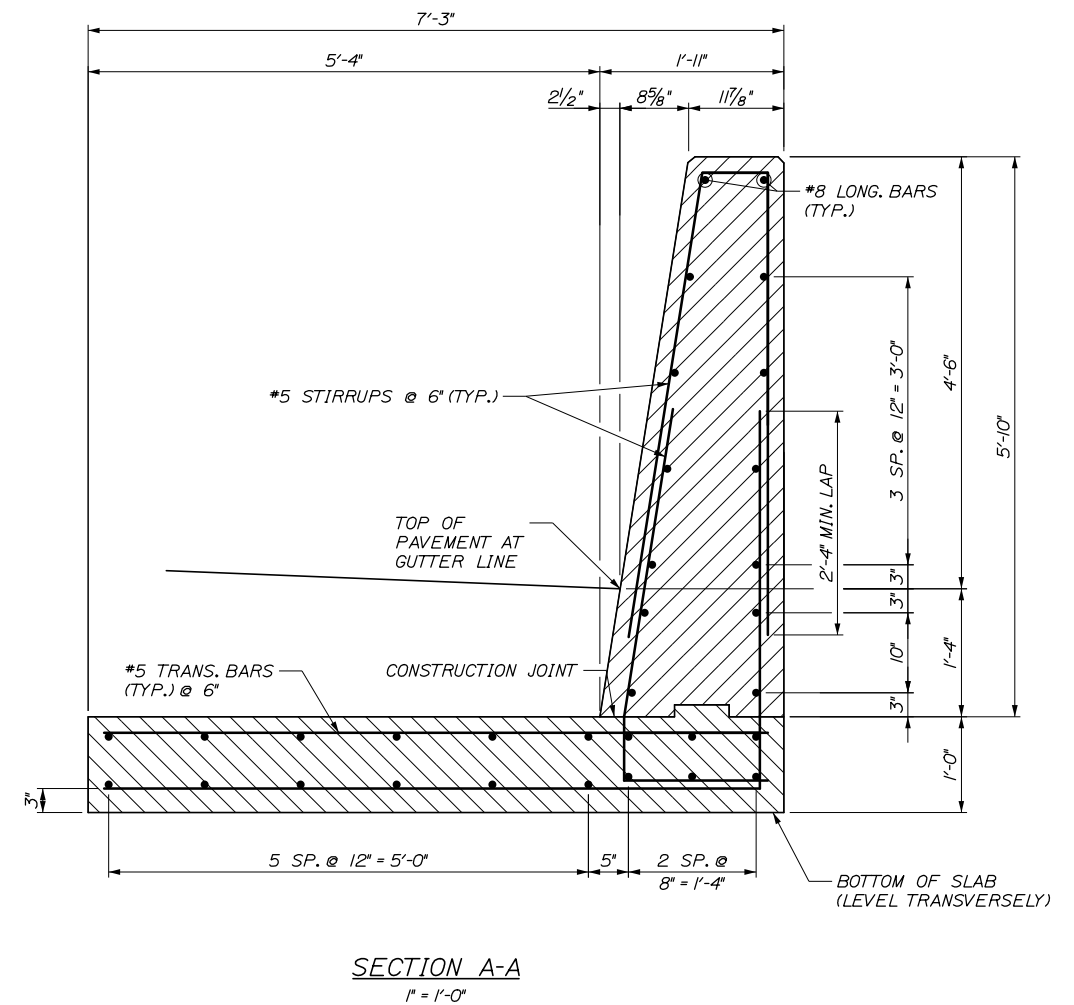
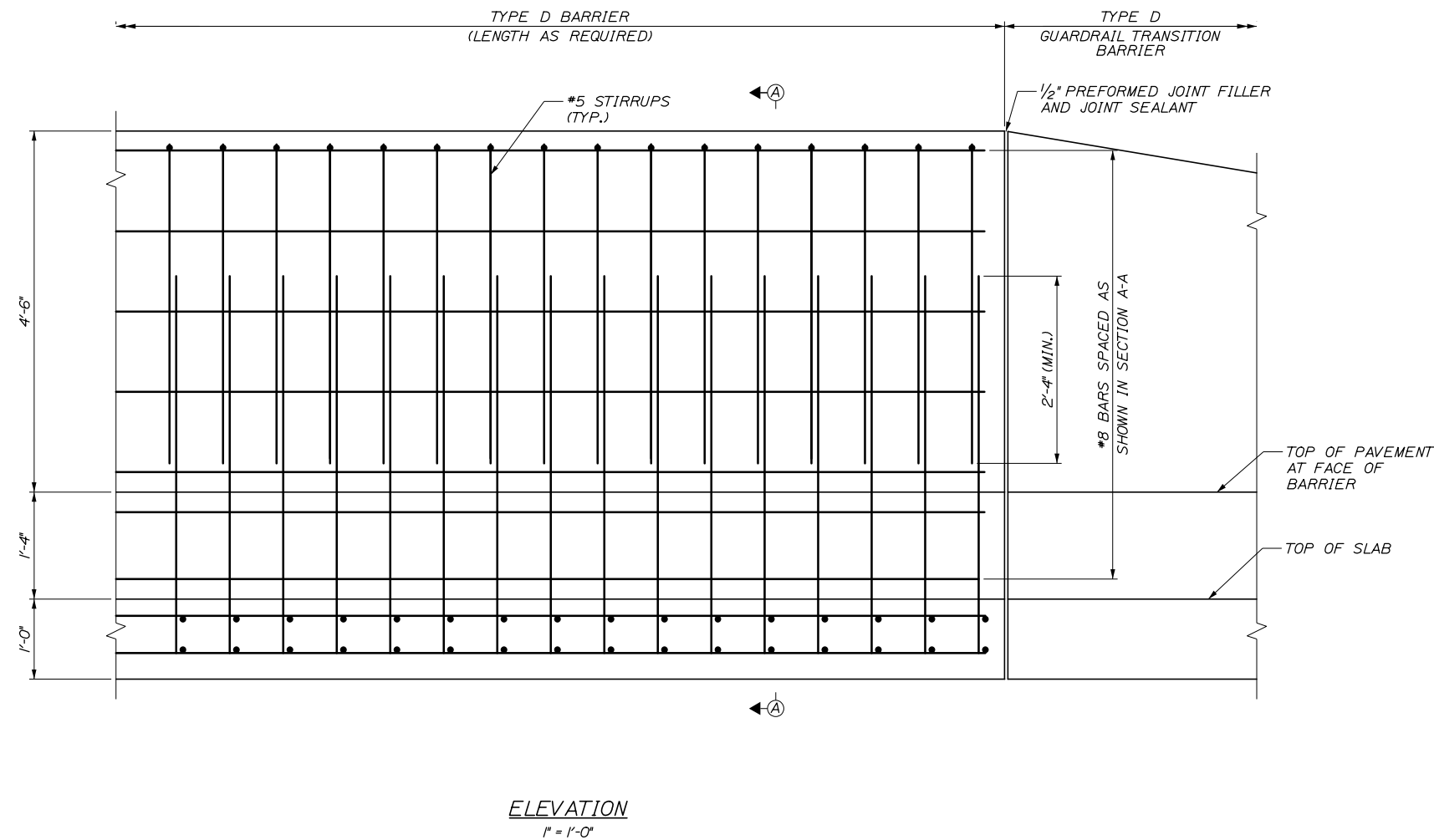
Date: 1/14/2021

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
STIRRUPS	#5	20	9'-4"	
STIRRUPS	#5	20	10'-4"	
TRANSVERSE FOOTING	#5	40	6'-10"	
LONGITUDINAL FOOTING	#5	32	DETERMINED BY CONTRACTOR	
LONGITUDINAL	#8	14	DETERMINED BY CONTRACTOR	

NOTE - NUMBER OF TRANSVERSE BARS PER 10 FT. SEGMENT OF STRUCTURE. LONGITUDINAL BAR LENGTH SHALL BE DETERMINED BY CONTRACTOR. MINIMUM SLICE LENGTHS SHALL BE:
 #5 - 2'-4"
 #8 - 4'-2"
 SPLICES SHALL BE STAGGERED A MINIMUM OF 8 FT.



NOTES:
 1. FOR BARRIER NOTES, SEE SHEET S-37.



Filename: 301_Concrete Barrier - Type D.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	HJW	09\20		KEB	09\20
	ERB	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
TYPE D BARRIER

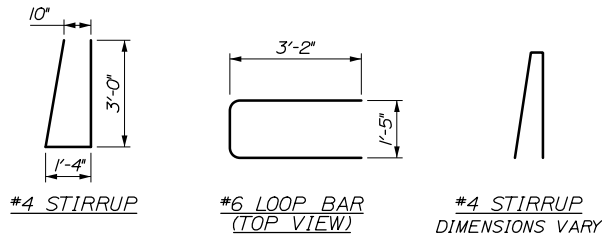
SHEET NUMBER: S-46
 CONTRACT: 2021.07
 338 OF 431

Date: 1/14/2021

Filename: 303_Concrete Barrier - Type C Transition.dgn

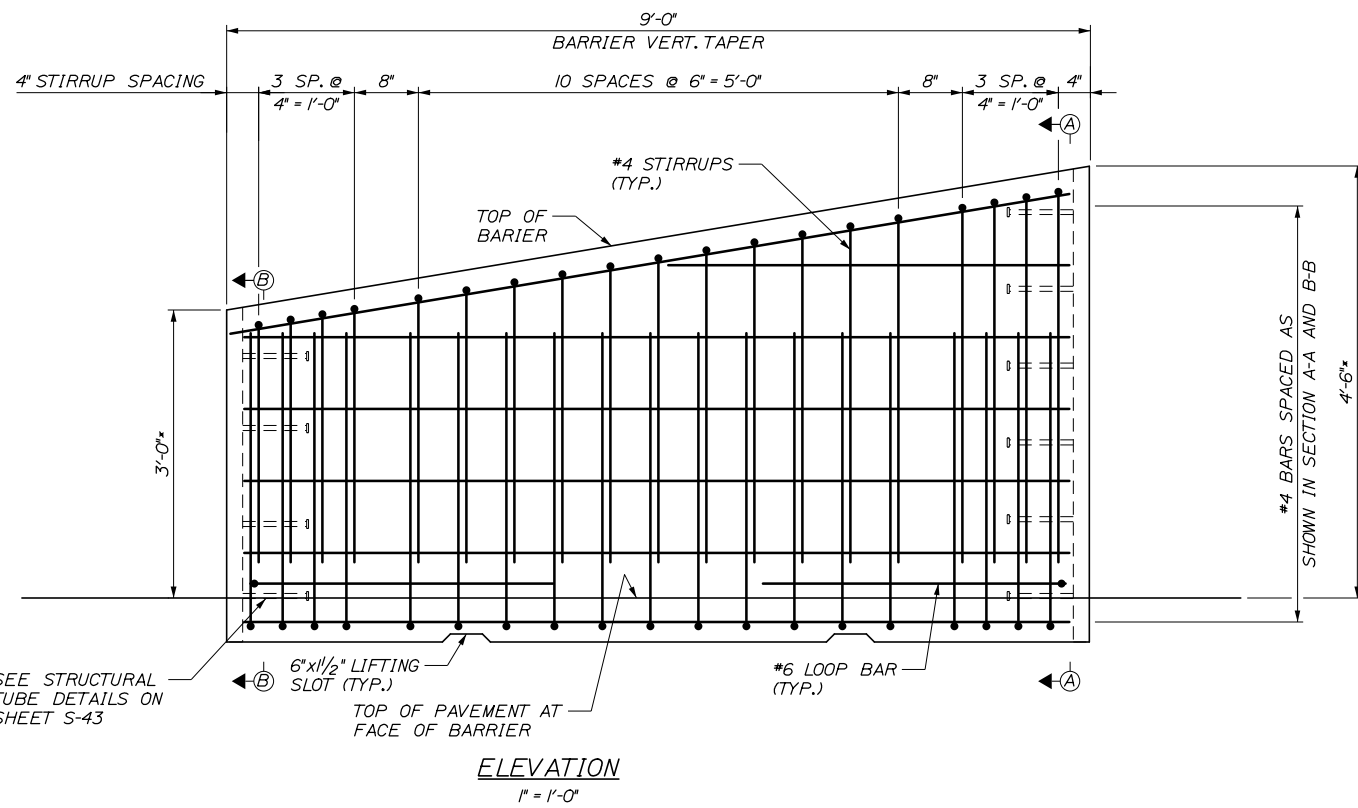
CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	14	VARIABLE	
STIRRUPS	#4	14	VARIABLE	
STIRRUPS	#4	14	7'-4"	
LOOP BAR	#6	2	7'-9"	

NOTE - NUMBER OF BARS PER 9 FT. SEGMENT OF STRUCTURE



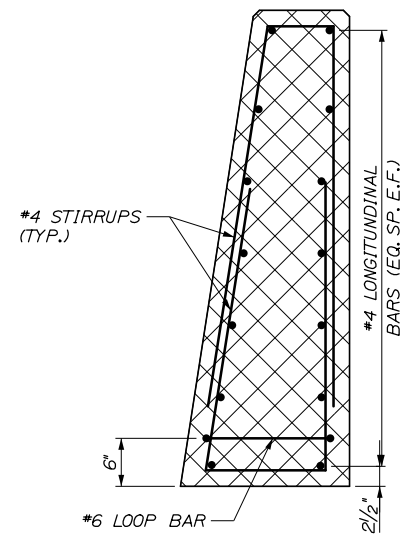
NOTES:

- FOR BARRIER NOTES, SEE SHEET S-37.
- FOR ADDITIONAL BARRIER CONNECTION DETAILS, SEE SHEET S-43.

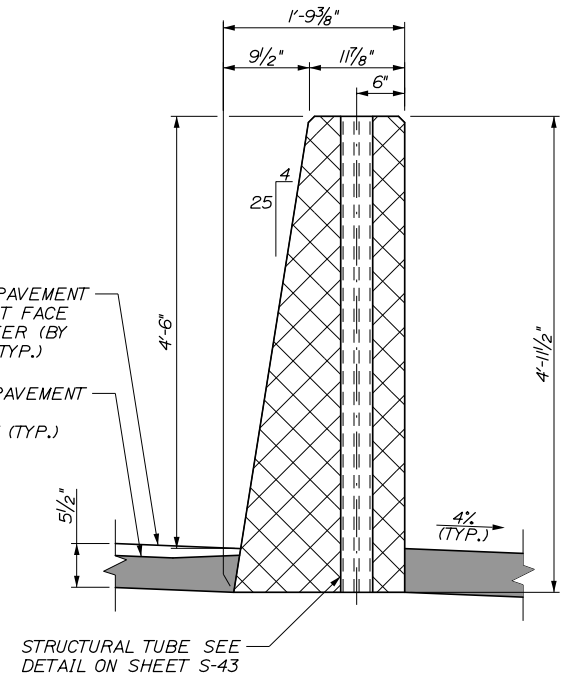


ELEVATION
1" = 1'-0"

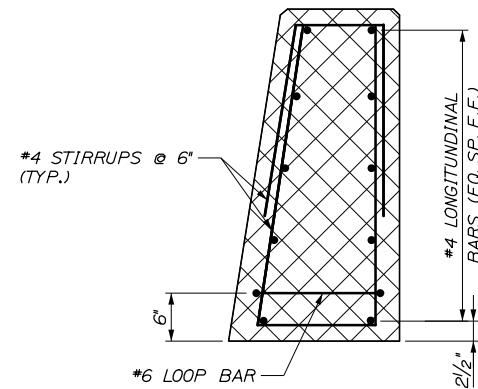
NOTE:
BARRIER PLACED ON THE MAINE TURNPIKE MAINLINE SHALL BE PLACED TO ACCOMMODATE A FUTURE PAVEMENT SURFACE COURSE OF 3/4" AT THE FACE OF BARRIER INSTALLED BY OTHER AS PART OF A SEPARATE CONTRACT. ANY BARRIER INSTALLED ON RAMPS OR ROUTE 703 SHALL BE INSTALLED TO THE ELEVATIONS SHOWN IN THIS CONTRACT WITHOUT CONSIDERATION OF FUTURE PAVEMENT LIFTS.



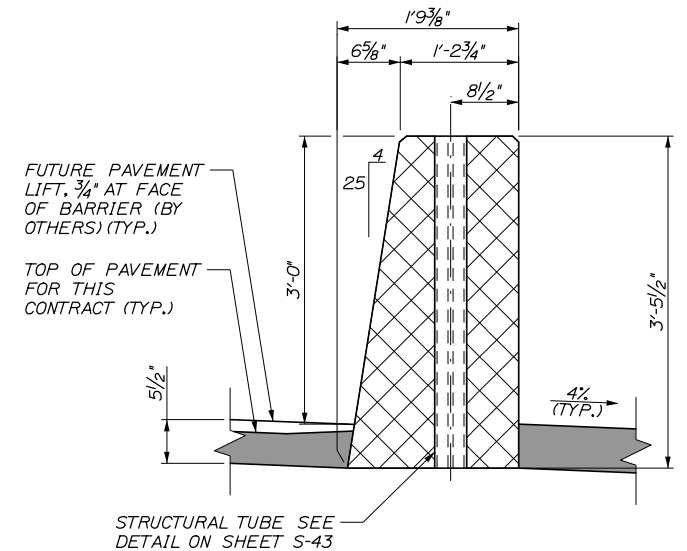
SECTION A-A (REINFORCEMENT)
1" = 1'-0"



SECTION A-A (MASONRY)
1" = 1'-0"



END VIEW B-B (REINFORCEMENT)
(CONNECTS TO ADJACENT CONCRETE MEDIUM BARRIER, ALIGNED AT GUTTER LINE)
1" = 1'-0"




END VIEW B-B (MASONRY)
(CONNECTS TO ADJACENT CONCRETE MEDIUM BARRIER, ALIGNED AT GUTTER LINE)
1" = 1'-0"

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	HJW 09\20	Checked	KEB 09\20
Drawn	ERB 09\20	In Charge of	RAL 09\20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
TYPE C TRANSITION BARRIER

SHEET NUMBER: S-47
CONTRACT: 2021.07
339 OF 431

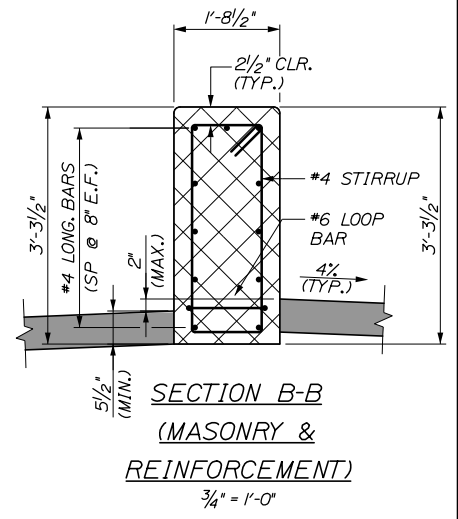
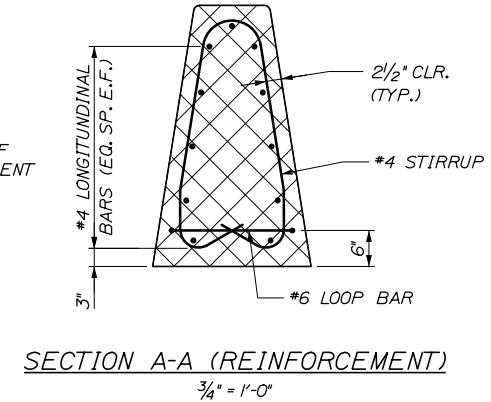
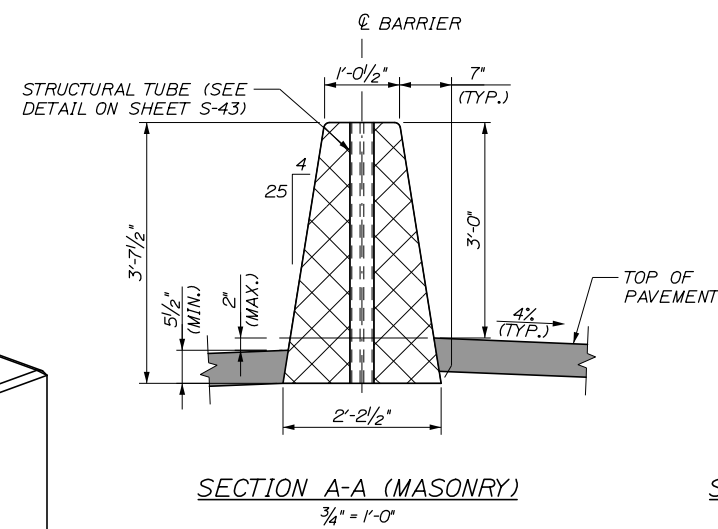
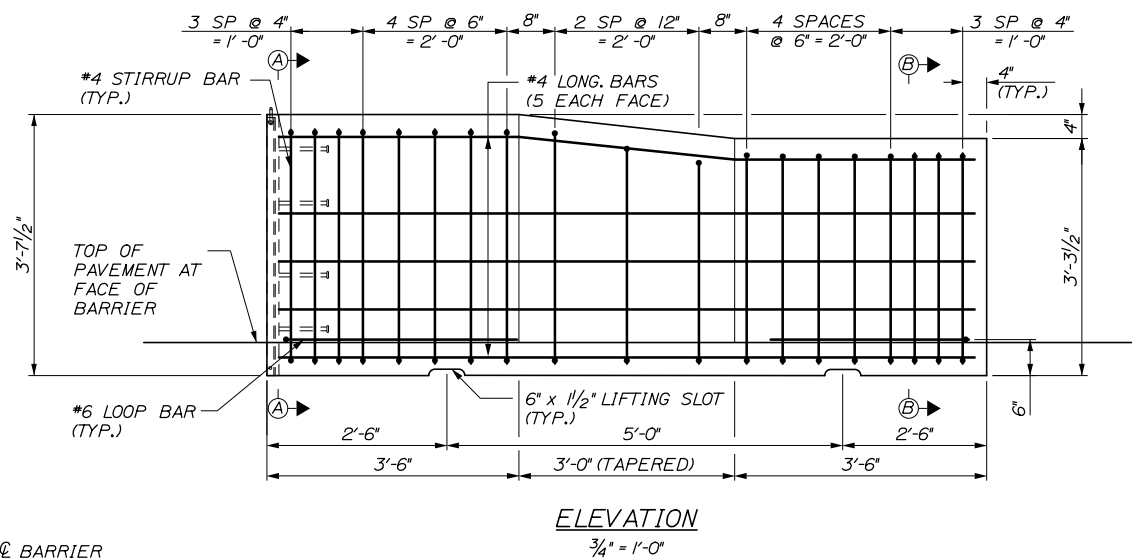
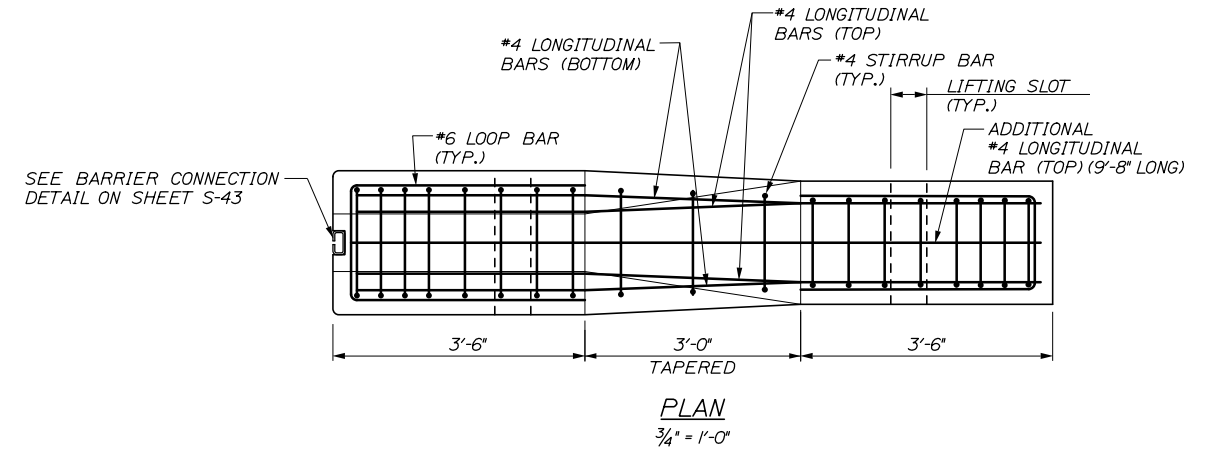
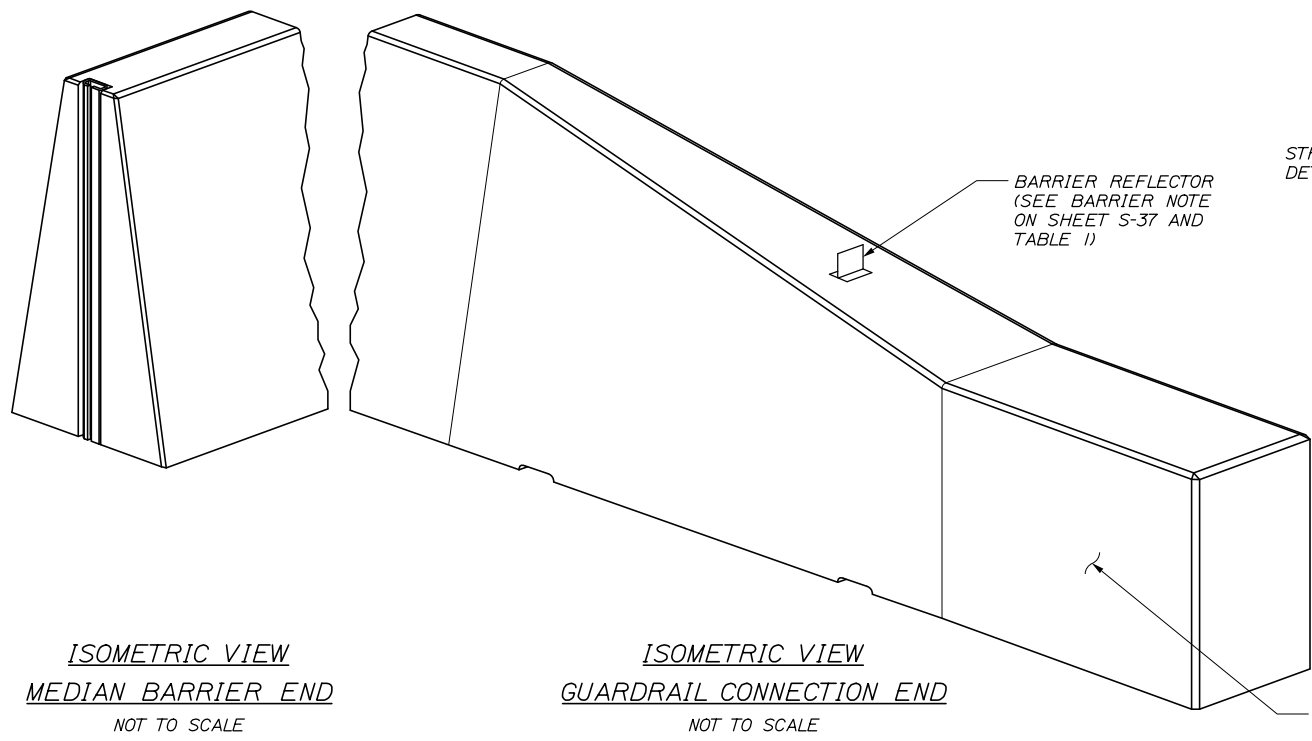
Date: 1/14/2021

Filename: 303_d_Concrete Barrier - Median Guardrail Transition.dgn

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	11	9'-6"	—
STIRRUPS	#4	8	7'-10"	⏏
STIRRUPS	#4	8	9'-3"	⏏
STIRRUPS	#4	3	VARIES	⏏
LOOP BAR	#6	2	VARIES	⏏

NOTES:

- FOR BARRIER NOTES, SEE SHEET S-37.
- FOR ADDITIONAL BARRIER CONNECTION DETAILS, SEE SHEET S-43.
- INSTALLATION OF IMPACT ATTENUATOR, MEDIAN GUARDRAIL TRANSITION, GUARDRAIL CONNECTION HARDWARE, AND SETTING OF THE TRANSITION BARRIER SHALL BE COORDINATED TO ENSURE PROPER VERTICAL ALIGNMENT OF THE BARRIER AND GUARDRAIL. SEE MISCELLANEOUS DETAILS SHEET FOR ADDITIONAL DETAILS.




PREPARE FOR CONNECTION TO GUARDRAIL TRANSITION, TYPE III (MODIFIED) OR SMART CUSHION IMPACT ATTENUATOR

Scale: AS NOTED				
No.	Revision	By	Date	

Designed by:				
HNTB				
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.				
	By	Date	By	Date
Designed	HJW	09\20	Checked	KEB 09\20
Drawn	ERB	09\20	In Charge of	RAL 09\20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 CONCRETE BARRIER
 MEDIAN GUARDRAIL TRANSITION BARRIER

SHEET NUMBER: S-48
 CONTRACT: 2021.07
 340 OF 431

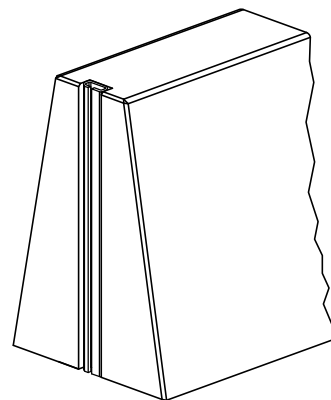
Date: 1/14/2021

Filename: 303a Concrete Barrier - Type B Guardrail Transition.dgn

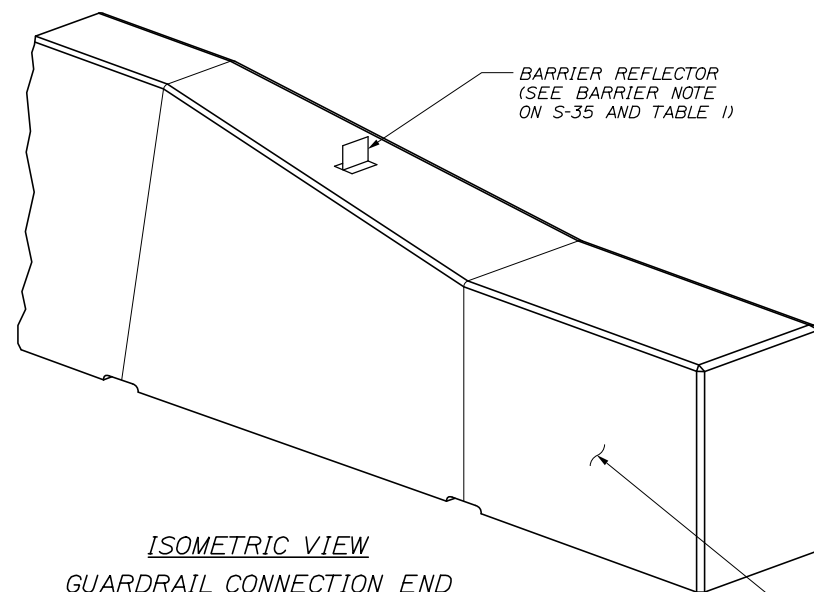
CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	11	11'-7"	—
STIRRUPS	#4	8	8'-6"	⏏
STIRRUPS	#4	8	9'-3"	⏏
STIRRUPS	#4	5	VARIES	⏏
LOOP BAR	#6	2	VARIES	⏏

NOTES:

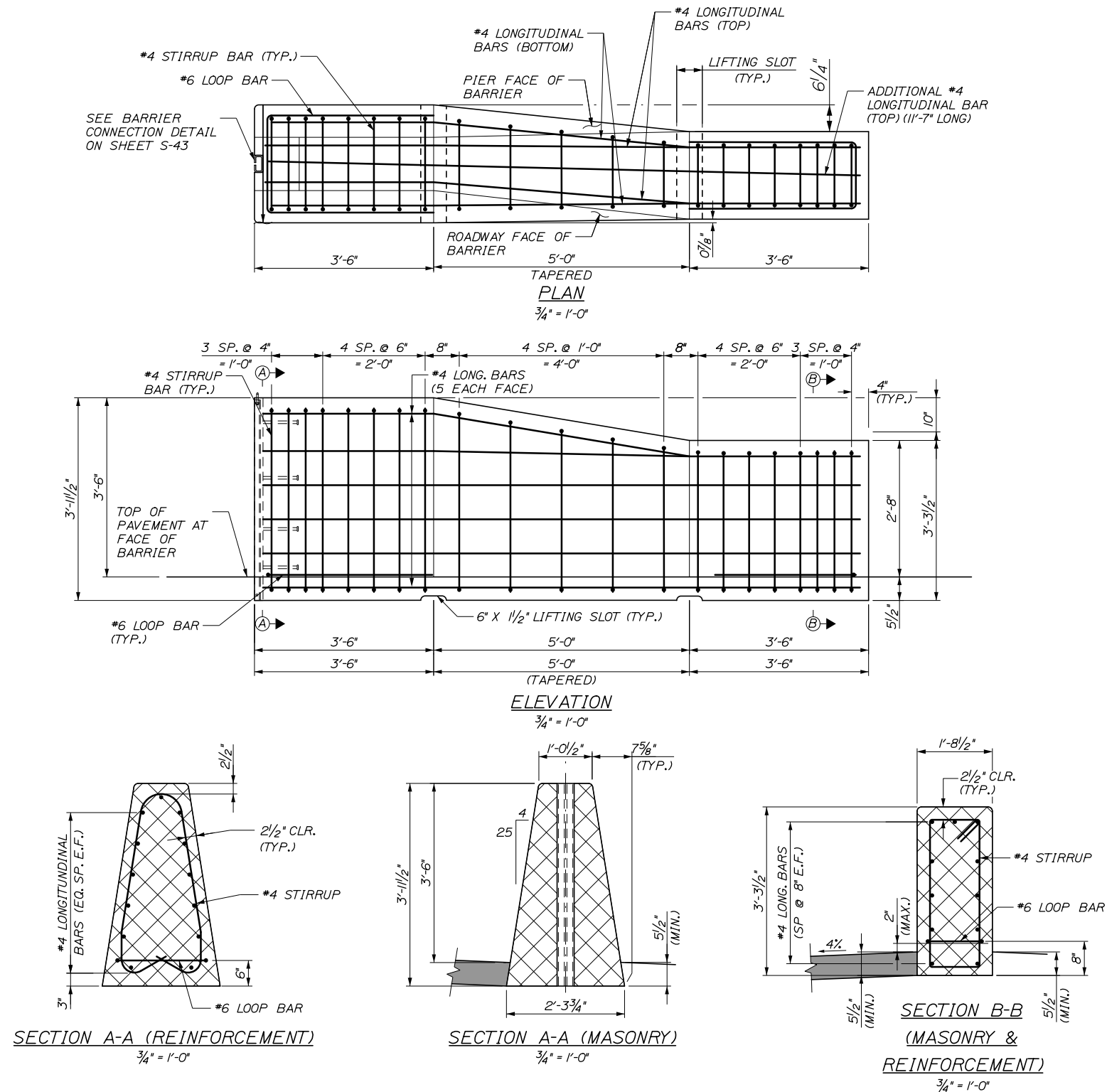
- FOR BARRIER NOTES, SEE SHEET S-37.
- FOR ADDITIONAL BARRIER CONNECTION DETAILS, SEE SHEET S-43.
- INSTALLATION OF MEDIAN GUARDRAIL TRANSITION, GUARDRAIL CONNECTION HARDWARE, AND SETTING OF THE TRANSITION BARRIER SHALL BE COORDINATED TO ENSURE PROPER VERTICAL ALIGNMENT OF THE BARRIER AND GUARDRAIL. SEE MISCELLANEOUS DETAILS SHEET FOR ADDITIONAL DETAILS.



**ISOMETRIC VIEW
MEDIAN BARRIER END**
NOT TO SCALE



**ISOMETRIC VIEW
GUARDRAIL CONNECTION END**
NOT TO SCALE




PREPARE FOR CONNECTION TO GUARDRAIL TRANSITION, TYPE III

Scale: AS NOTED				
No.	Revision	By	Date	

Designed by:				
HNTB				
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.				
	By	Date	By	Date
Designed	HJW	09\20	Checked	KEB 09\20
Drawn	ERB	09\20	In Charge of	RAL 09\20

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FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
TYPE B GUARDRAIL TRANSITION BARRIER

SHEET NUMBER: S-49
341 OF 431

CONTRACT: 2021.07

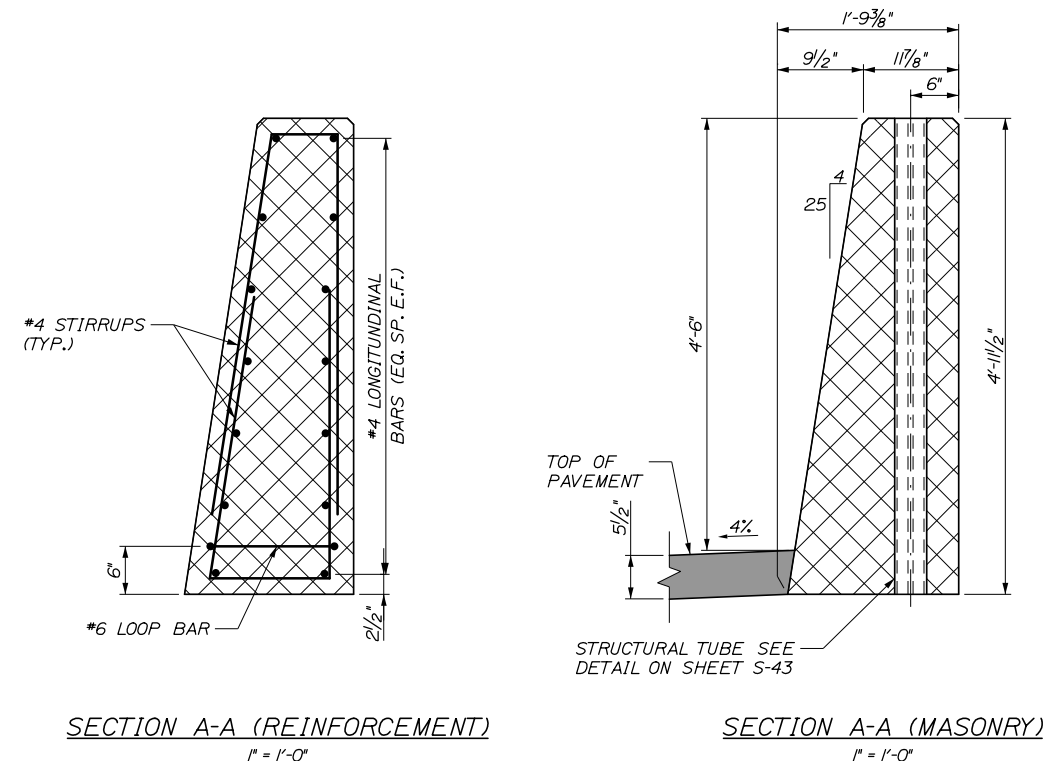
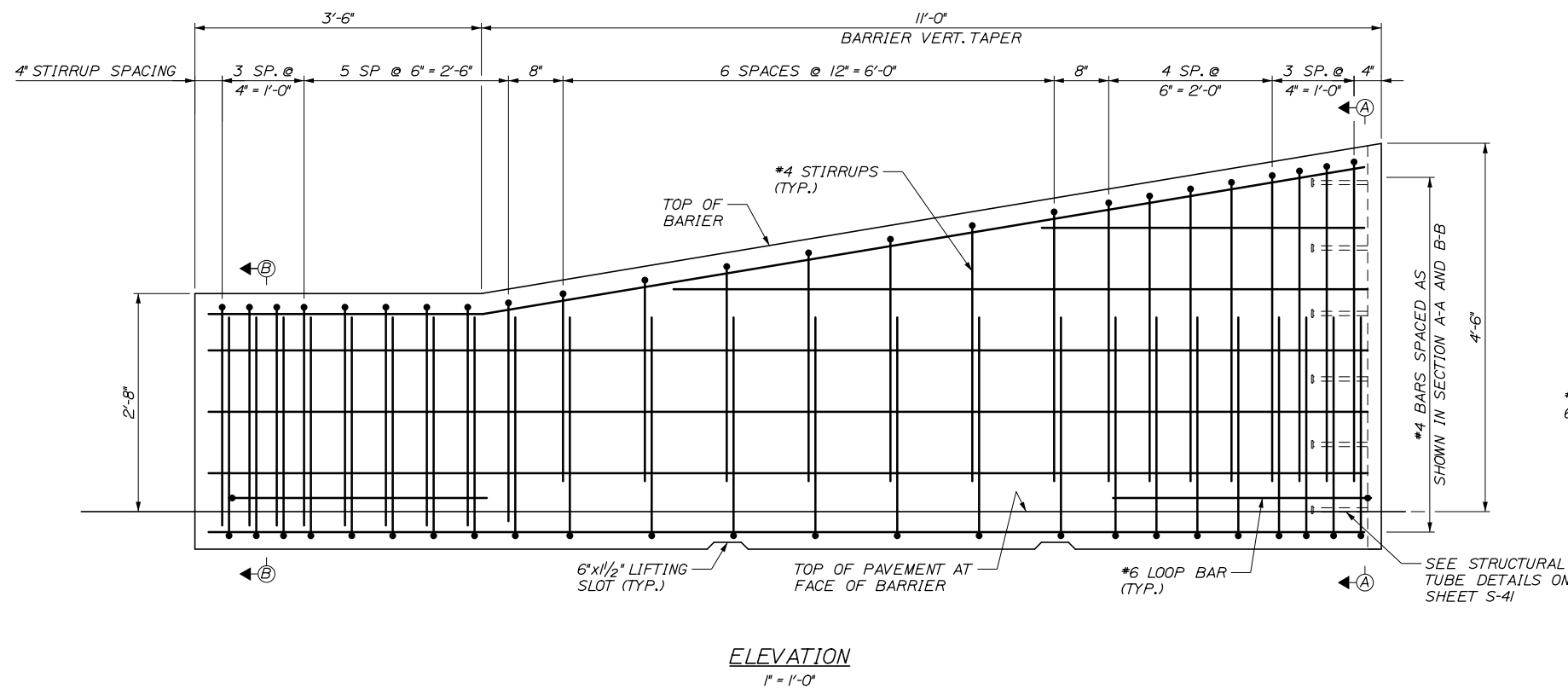
Date: 1/14/2021

Filename: 304_Concrete Barrier - Type C Guardrail Transition.dgn

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	14	VARIABLE	
STIRRUPS	#4	14	VARIABLE	
STIRRUPS	#4	14	7'-4"	
STIRRUPS	#4	16	6'-8"	
LOOP BAR	#6	2	7'-9"	

NOTES:

- FOR BARRIER NOTES, SEE SHEET S-37.
- FOR ADDITIONAL BARRIER CONNECTION DETAILS, SEE SHEET S-43.



Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	HJW 09\20	Checked	KEB 09\20
Drawn	ERB 09\20	In Charge of	RAL 09\20

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340 County Road, Suite 6-C
Westbrook, ME 04092
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FAX (207) 228-0909

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

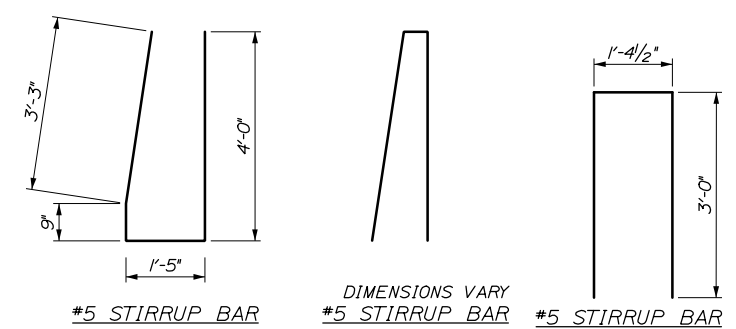
EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
TYPE C GUARDRAIL TRANSITION BARRIER

SHEET NUMBER: S-50
CONTRACT: 2021.07
342 OF 431

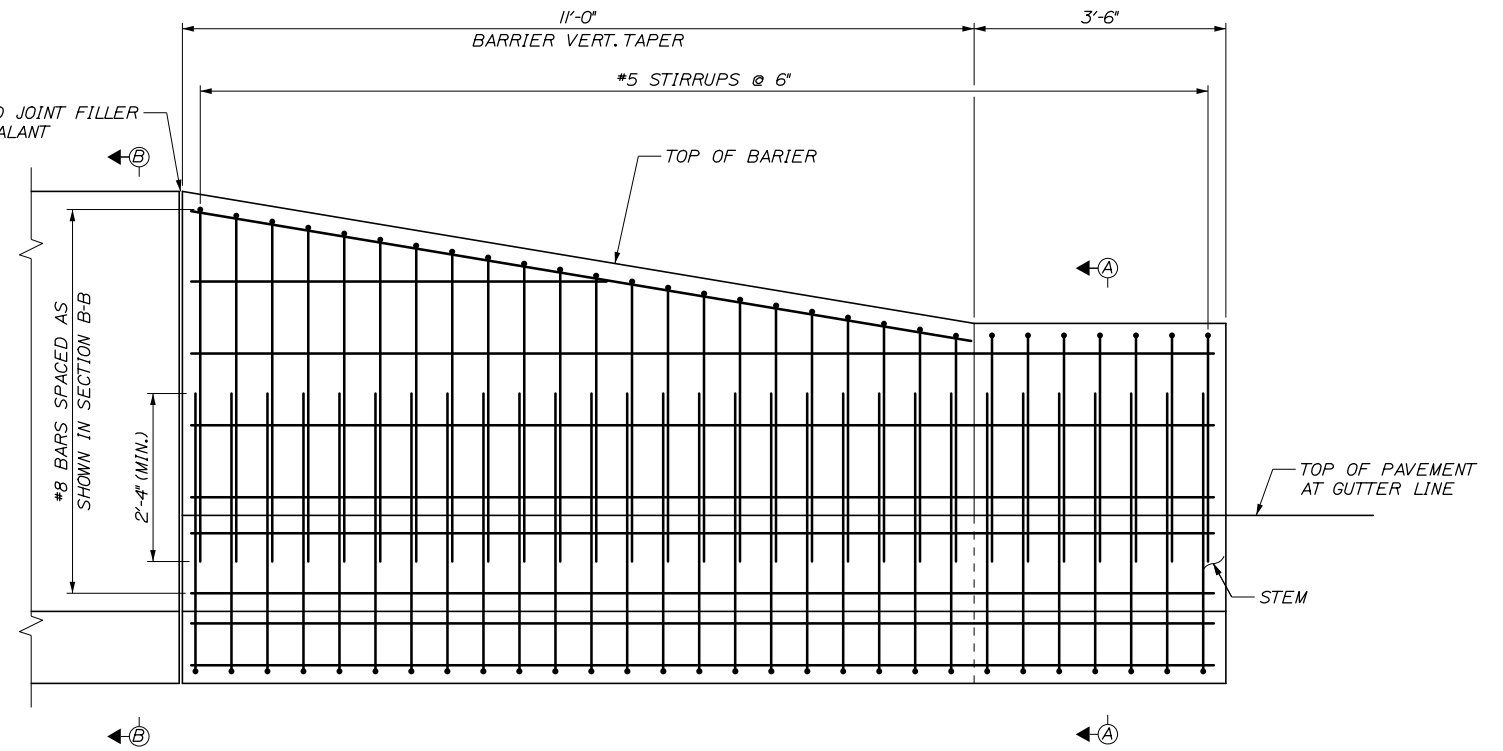
Date: 1/14/2021

Filename: 305_Concrete Barrier - Type D Guardrail Transition.dgn

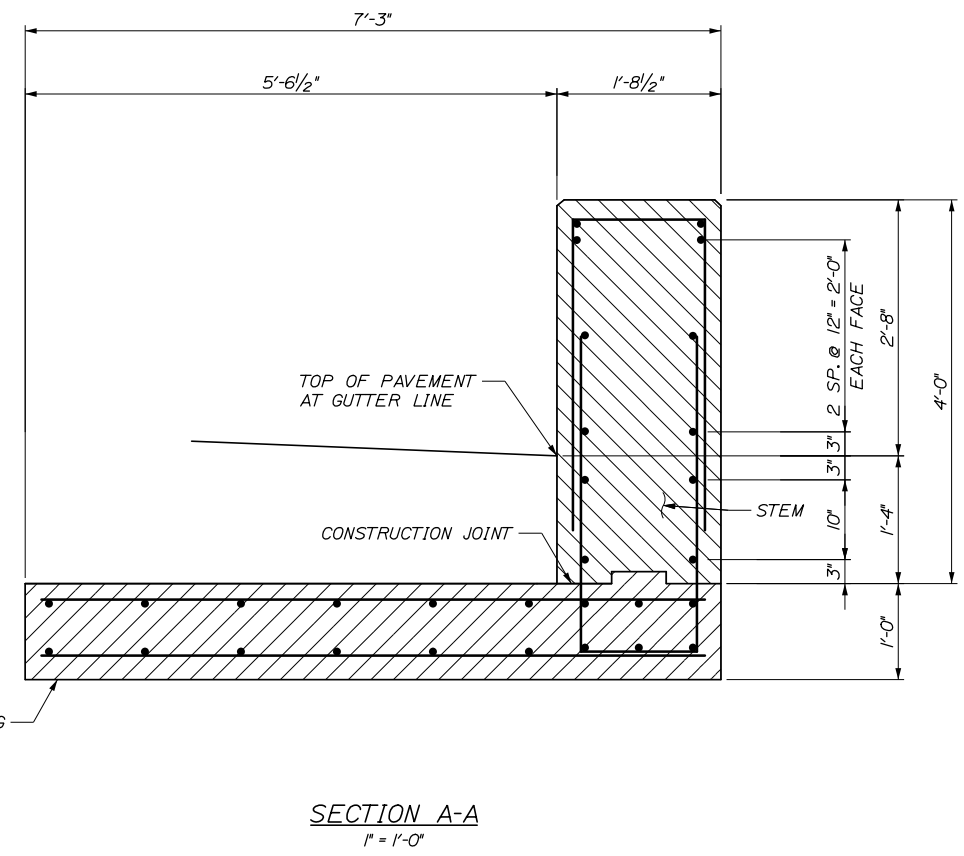
CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#8	14	VARIABLE	
STIRRUPS	#5	22	9'-5"	
STIRRUPS	#5	22	VARIABLE	
STIRRUPS	#5	14	8'-5"	
TRANSVERSE FOOTING	#5	34	6'-10"	
LONGITUDINAL FOOTING	#5	18	14'-1"	



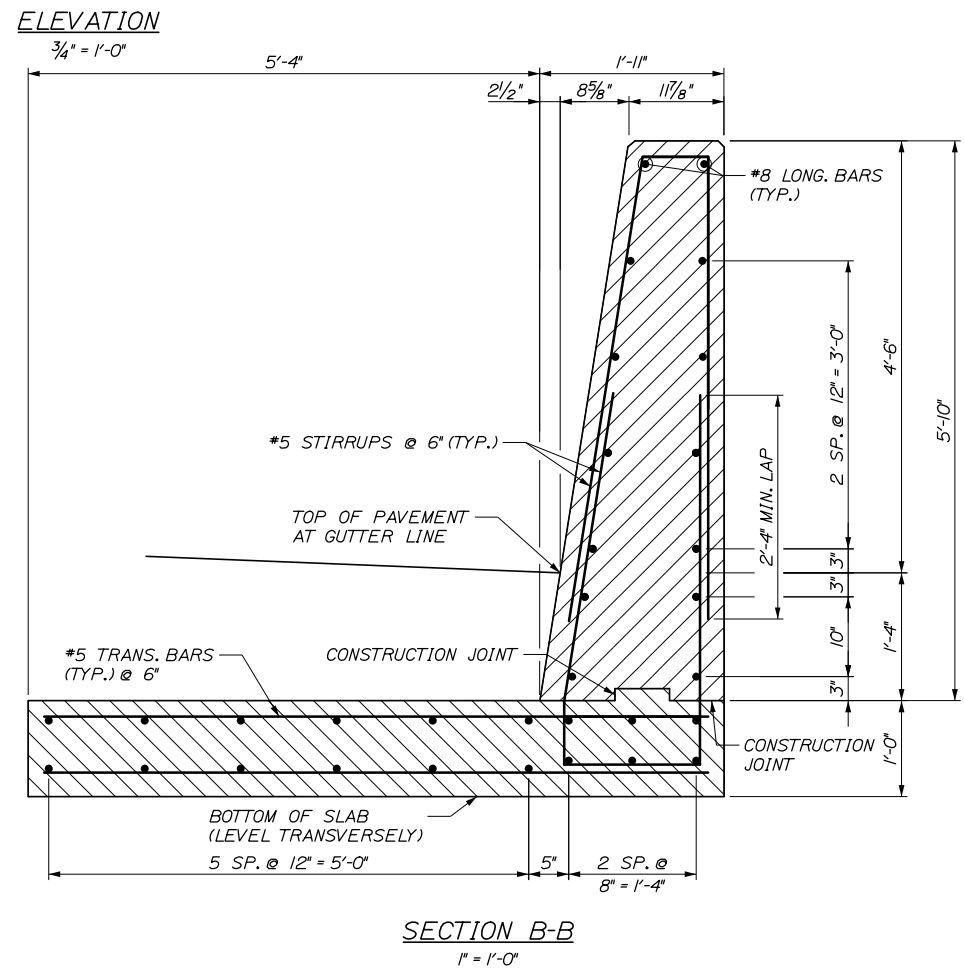
1/2" PREFORMED JOINT FILLER AND JOINT SEALANT



NOTES:
1. FOR BARRIER NOTES, SEE SHEET S-37.



SECTION A-A
1" = 1'-0"




SECTION B-B
1" = 1'-0"

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	HJW 09\20	Checked	KEB 09\20
Drawn	ERB 09\20	In Charge of	RAL 09\20

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Westbrook, ME 04092
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FAX (207) 228-0909



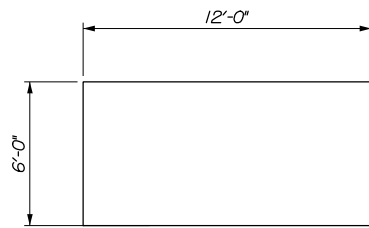
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

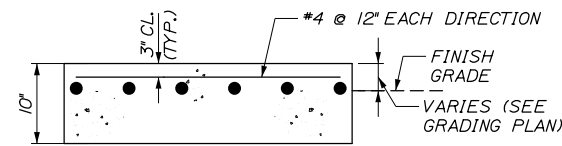
EXIT 45
INTERCHANGE RECONFIGURATION
CONCRETE BARRIER
TYPE D GUARDRAIL TRANSITION BARRIER

SHEET NUMBER: S-51
CONTRACT: 2021.07
343 OF 431

Date: 1/14/2021



PLAN

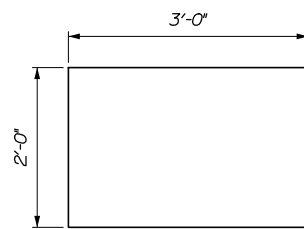


ELEVATION

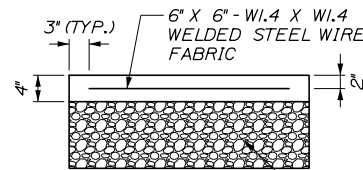
NOTE:

- 1. PADS SHALL BE CLASS "AAA - DECK" CONCRETE (f'c=4,000 PSI).

GENERATOR PAD DETAIL



PLAN

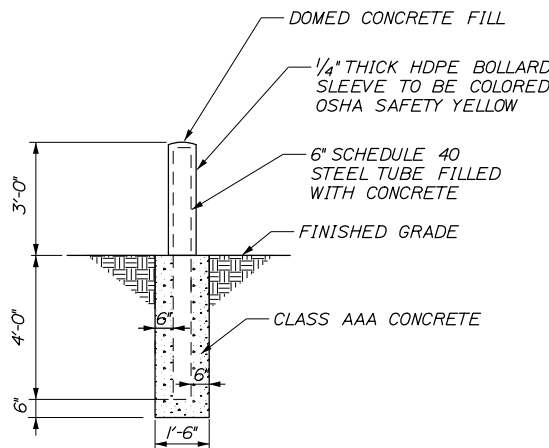


ELEVATION

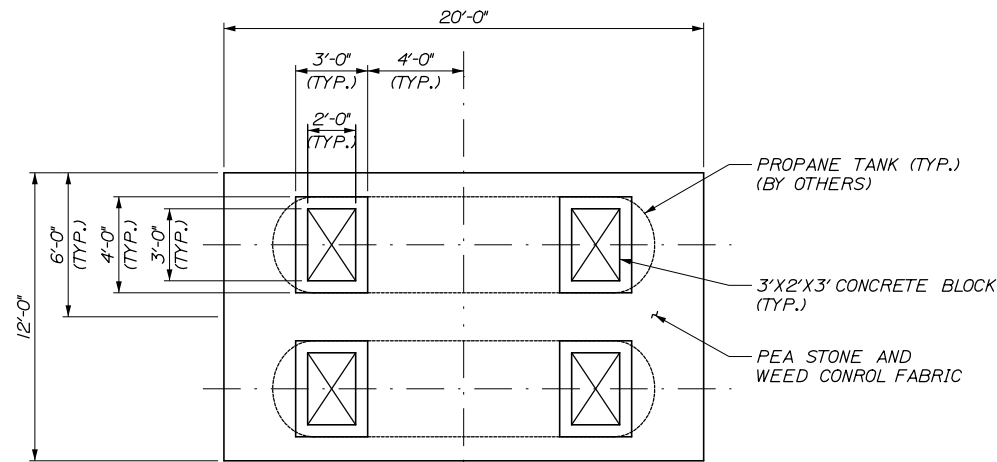
NOTES:

- 1. PADS SHALL BE CLASS "AAA - DECK" CONCRETE (f'c=4,000 PSI).
- 2. PAYMENT FOR SALT BIN PAD SHALL BE MADE UNDER ITEM 608.08 - REINFORCED CONCRETE SIDEWALK.

SALT BIN PAD DETAIL



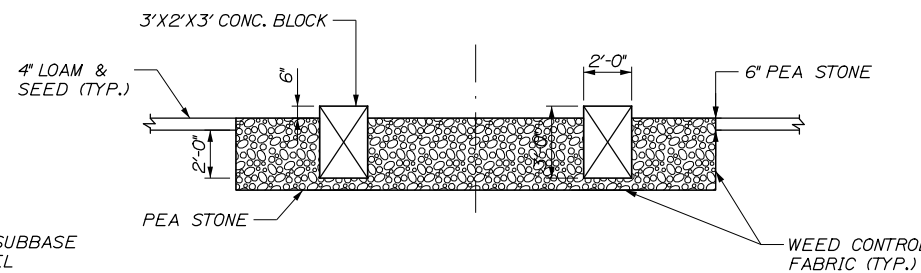
BOLLARD



PLAN VIEW

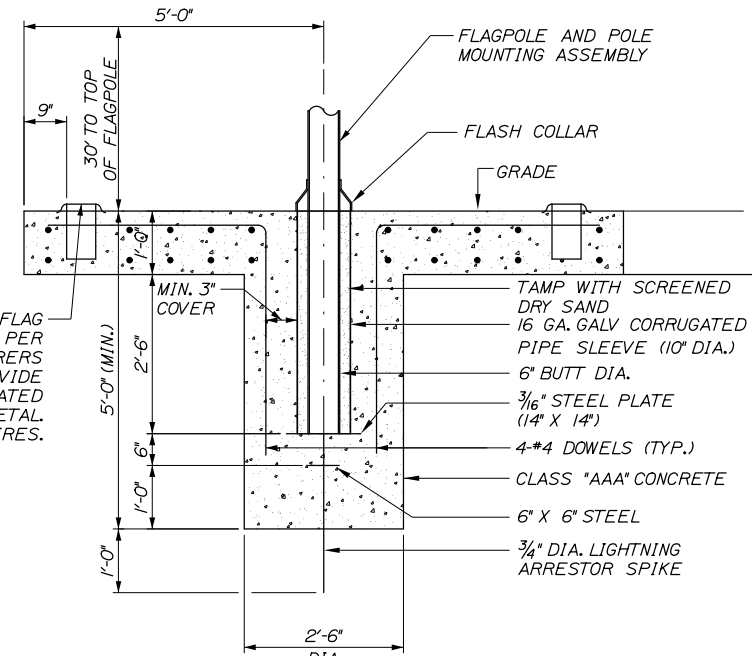
NOTES:

- 1. TANK SHALL BE MINIMUM OFFSET OF 3' BEHIND BACK OF GUARDRAIL POSTS.
- 2. TANKS SHALL BE PROTECTED ON ALL SIDES DURING CONSTRUCTION.

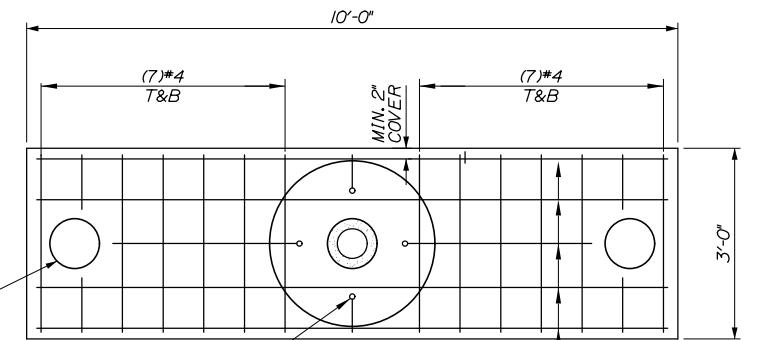


ELEVATION VIEW
PROPANE TANK PAD

LED INGRADE FLAG LUMINAIRE - INSTALL PER LUMINAIRE MANUFACTURERS RECOMMENDATION. PROVIDE 3/4" DIRECT BURIAL RATED LIQUIDTIGHT FLEXIBLE METAL CONDUIT TO LUMINAIRES.



SECTION

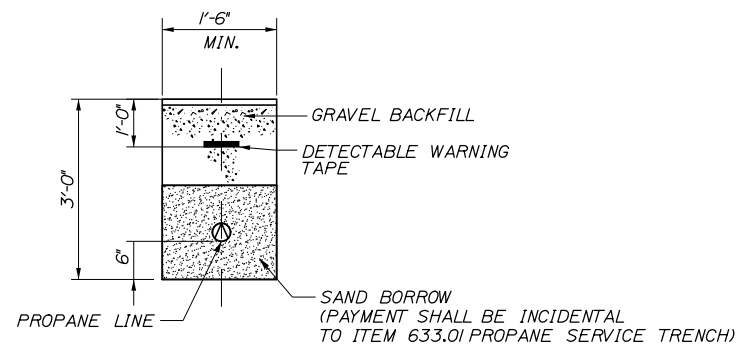


PLAN

FLAGPOLE FOUNDATION DETAILS

NOTE:

- 1. PAYMENT FOR FLAGPOLE FOUNDATION SHALL BE INCIDENTAL TO ITEM 648.00 FLAGPOLE AND SPOTLIGHT.




PROPANE SERVICE DETAIL

Scale: NOT TO SCALE				
No.	Revision	By	Date	

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	AJS	09\20	Checked	RBM	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
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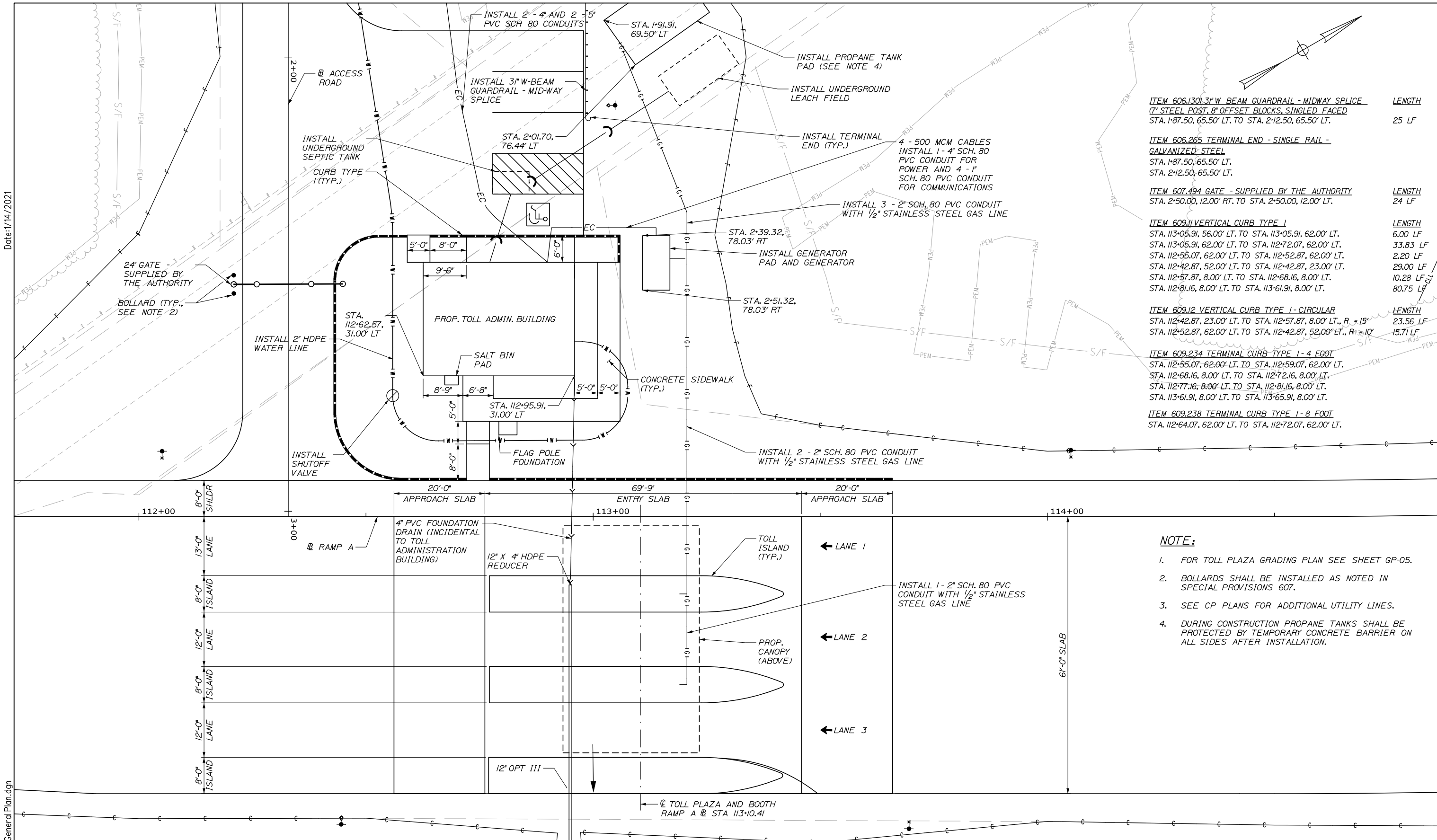
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 TOLL PLAZA
 MISCELLANEOUS DETAILS

SHEET NUMBER: TC-01
 CONTRACT: 2021.07
 344 OF 431

Date: 1/14/2021



ITEM 606.130.31\"/>	LENGTH 25 LF
ITEM 606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL STA. 1+87.50, 65.50' LT. TO STA. 2+12.50, 65.50' LT.	LENGTH 24 LF
ITEM 607.494 GATE - SUPPLIED BY THE AUTHORITY STA. 2+50.00, 12.00' RT. TO STA. 2+50.00, 12.00' LT.	LENGTH 6.00 LF 33.83 LF 2.20 LF 29.00 LF 10.28 LF 80.75 LF
ITEM 609.11 VERTICAL CURB TYPE 1 STA. 113+05.91, 56.00' LT. TO STA. 113+05.91, 62.00' LT. STA. 113+05.91, 62.00' LT. TO STA. 112+72.07, 62.00' LT. STA. 112+55.07, 62.00' LT. TO STA. 112+52.87, 62.00' LT. STA. 112+42.87, 52.00' LT. TO STA. 112+42.87, 23.00' LT. STA. 112+57.87, 8.00' LT. TO STA. 112+68.16, 8.00' LT. STA. 112+81.16, 8.00' LT. TO STA. 113+61.91, 8.00' LT.	LENGTH 23.56 LF 15.71 LF
ITEM 609.12 VERTICAL CURB TYPE 1 - CIRCULAR STA. 112+42.87, 23.00' LT. TO STA. 112+57.87, 8.00' LT., R = 15' STA. 112+52.87, 62.00' LT. TO STA. 112+42.87, 52.00' LT., R = 10'	LENGTH 23.56 LF 15.71 LF
ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FOOT STA. 112+55.07, 62.00' LT. TO STA. 112+59.07, 62.00' LT. STA. 112+68.16, 8.00' LT. TO STA. 112+72.16, 8.00' LT. STA. 112+77.16, 8.00' LT. TO STA. 112+81.16, 8.00' LT. STA. 113+61.91, 8.00' LT. TO STA. 113+65.91, 8.00' LT.	LENGTH 24 LF
ITEM 609.238 TERMINAL CURB TYPE 1 - 8 FOOT STA. 112+64.07, 62.00' LT. TO STA. 112+72.07, 62.00' LT.	LENGTH 24 LF

- NOTE:**
- FOR TOLL PLAZA GRADING PLAN SEE SHEET GP-05.
 - BOLLARDS SHALL BE INSTALLED AS NOTED IN SPECIAL PROVISIONS 607.
 - SEE CP PLANS FOR ADDITIONAL UTILITY LINES.
 - DURING CONSTRUCTION PROPANE TANKS SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER ON ALL SIDES AFTER INSTALLATION.

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	AJS	09\20	Checked	RBM	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

**THE GOLD STAR
MEMORIAL HIGHWAY**

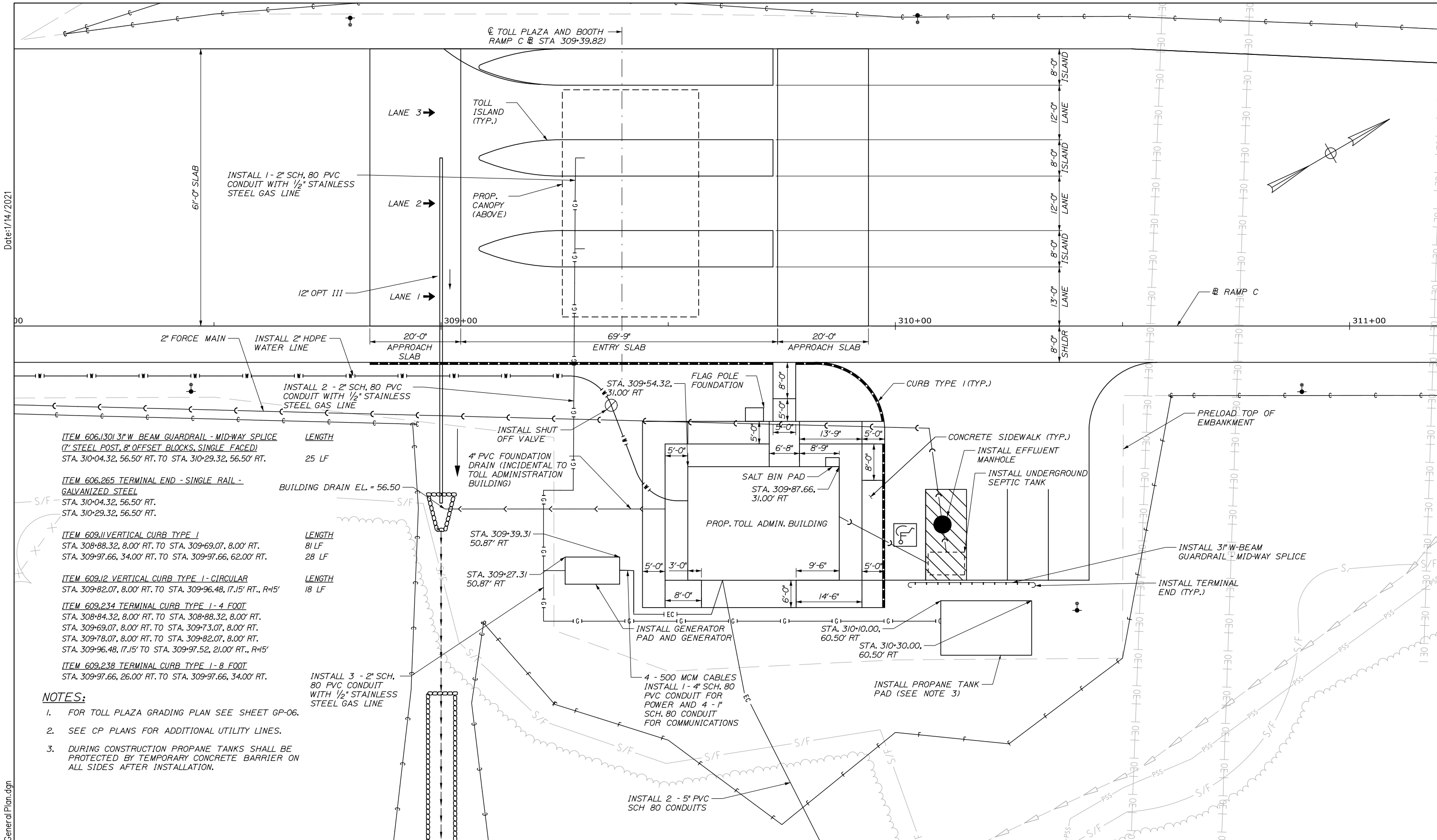
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
SOUTHBOUND ENTRY TOLL PLAZA
GENERAL PLAN**

SHEET NUMBER: TGP-01
CONTRACT: 2021.07
345 OF 431

Filename: 00X_SB Toll Plaza General Plan.dgn

Date: 1/14/2021



- ITEM 606.1301 3" W BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POST, 8' OFFSET BLOCKS, SINGLE FACED)
STA. 310+04.32, 56.50' RT. TO STA. 310+29.32, 56.50' RT. LENGTH 25 LF
- ITEM 606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL
STA. 310+04.32, 56.50' RT. TO STA. 310+29.32, 56.50' RT.
- ITEM 609.11 VERTICAL CURB TYPE 1
STA. 308+88.32, 8.00' RT. TO STA. 309+69.07, 8.00' RT.
STA. 309+97.66, 34.00' RT. TO STA. 309+97.66, 62.00' RT. LENGTH 81 LF
- ITEM 609.12 VERTICAL CURB TYPE 1 - CIRCULAR
STA. 309+82.07, 8.00' RT. TO STA. 309+96.48, 17.15' RT., R=15' LENGTH 28 LF
- ITEM 609.234 TERMINAL CURB TYPE 1 - 4 FOOT
STA. 308+84.32, 8.00' RT. TO STA. 308+88.32, 8.00' RT.
STA. 309+69.07, 8.00' RT. TO STA. 309+73.07, 8.00' RT.
STA. 309+78.07, 8.00' RT. TO STA. 309+82.07, 8.00' RT.
STA. 309+96.48, 17.15' TO STA. 309+97.52, 21.00' RT., R=15' LENGTH 18 LF
- ITEM 609.238 TERMINAL CURB TYPE 1 - 8 FOOT
STA. 309+97.66, 26.00' RT. TO STA. 309+97.66, 34.00' RT.

- NOTES:**
1. FOR TOLL PLAZA GRADING PLAN SEE SHEET GP-06.
 2. SEE CP PLANS FOR ADDITIONAL UTILITY LINES.
 3. DURING CONSTRUCTION PROPANE TANKS SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER ON ALL SIDES AFTER INSTALLATION.

Scale:

No.	Revision	By	Date

Designed by:

HNTB

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	AJS 09\20	Checked	RBM 09\20
Drawn	AJS 09\20	In Charge of	RAL 09\20

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION

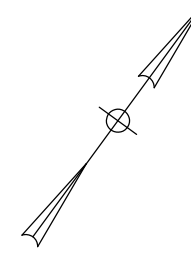
NORTHBOUND ENTRY TOLL PLAZA GENERAL PLAN

SHEET NUMBER: TGP-02
346 OF 431

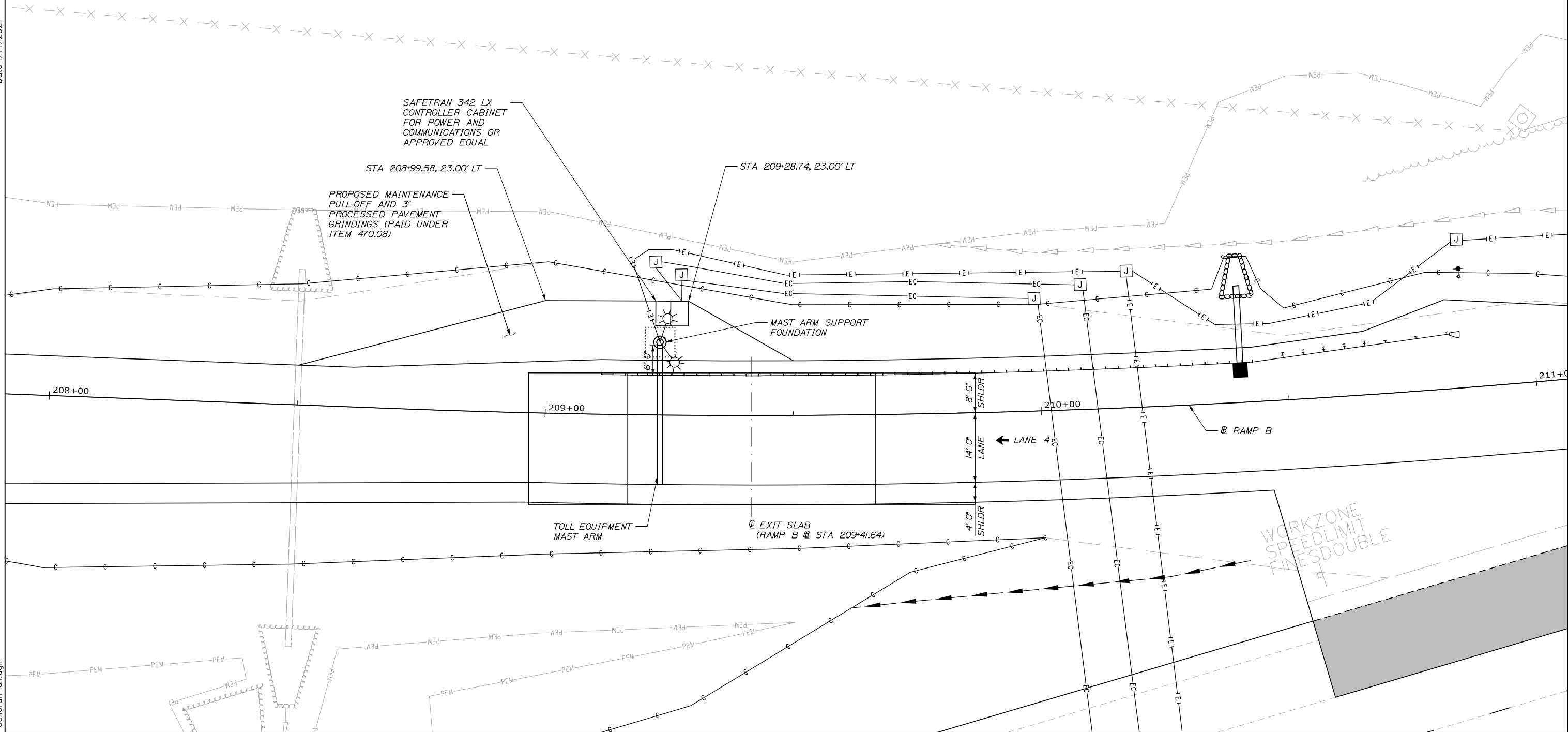
CONTRACT: 2021.07

Filename: 00X_NB Toll Plaza General Plan.dgn

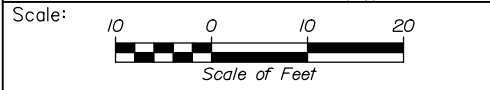
NOTE: CONTRACTOR SHALL VERIFY LOCATION OF ALL CONDUIT BEFORE INSTALLING GUARDRAIL.



Date: 1/14/2021



Filename: 00X_SB Exit Plaza GeneralPlan.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	AJS	09\20	Checked	RBM	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

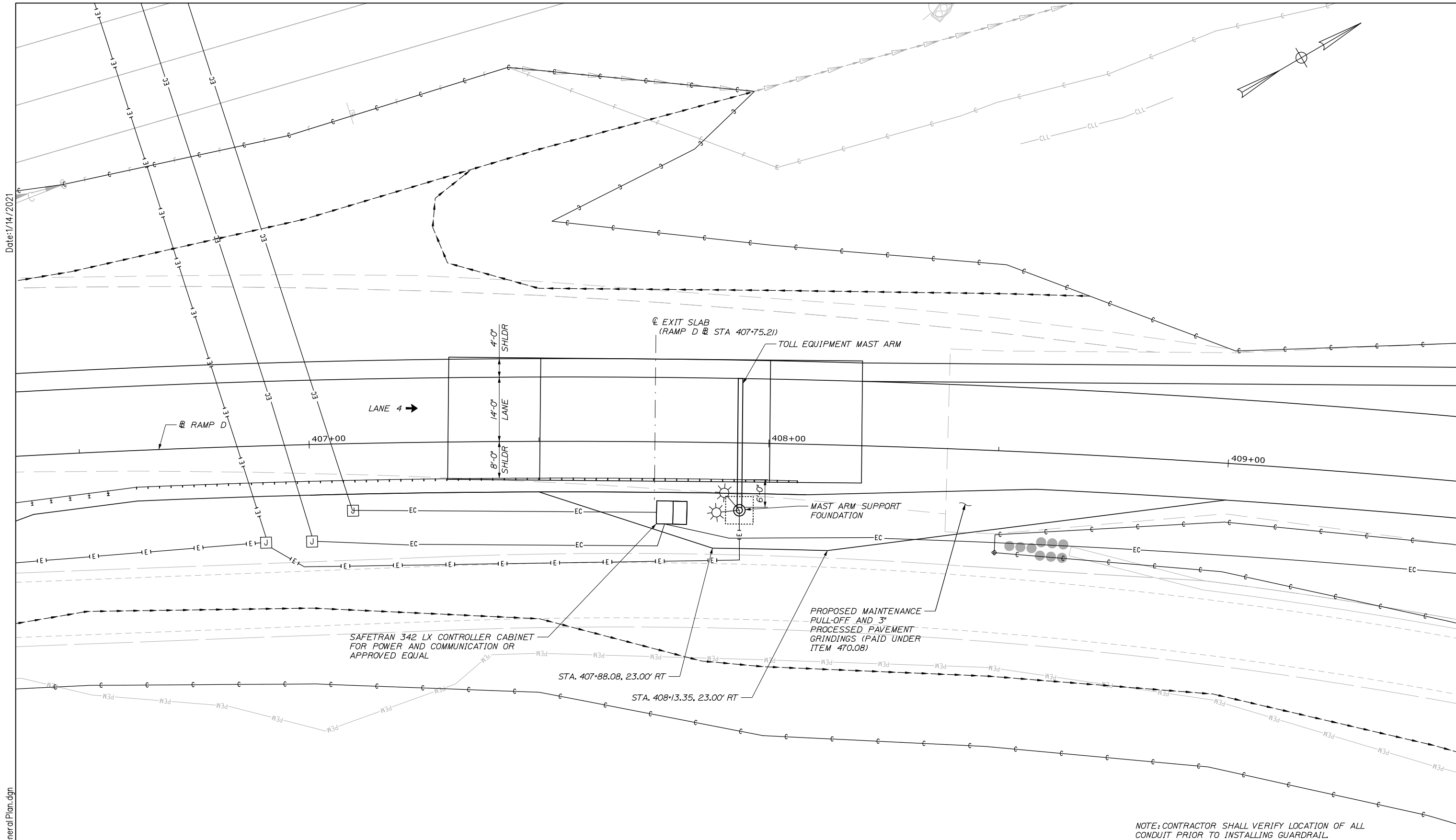
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
SOUTHBOUND EXIT TOLL POINT
GENERAL PLAN**

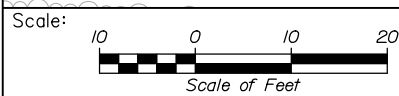
SHEET NUMBER: TGP-03
CONTRACT: 2021.07
347 OF 431



Date: 1/14/2021

Filename: 00X_NB Exit Plaza General Plan.dgn

NOTE: CONTRACTOR SHALL VERIFY LOCATION OF ALL CONDUIT PRIOR TO INSTALLING GUARDRAIL.



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No.	Revision	By	Date

	By	Date		By	Date
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Drawn	AJS	09\20	In Charge of	RAL	09\20

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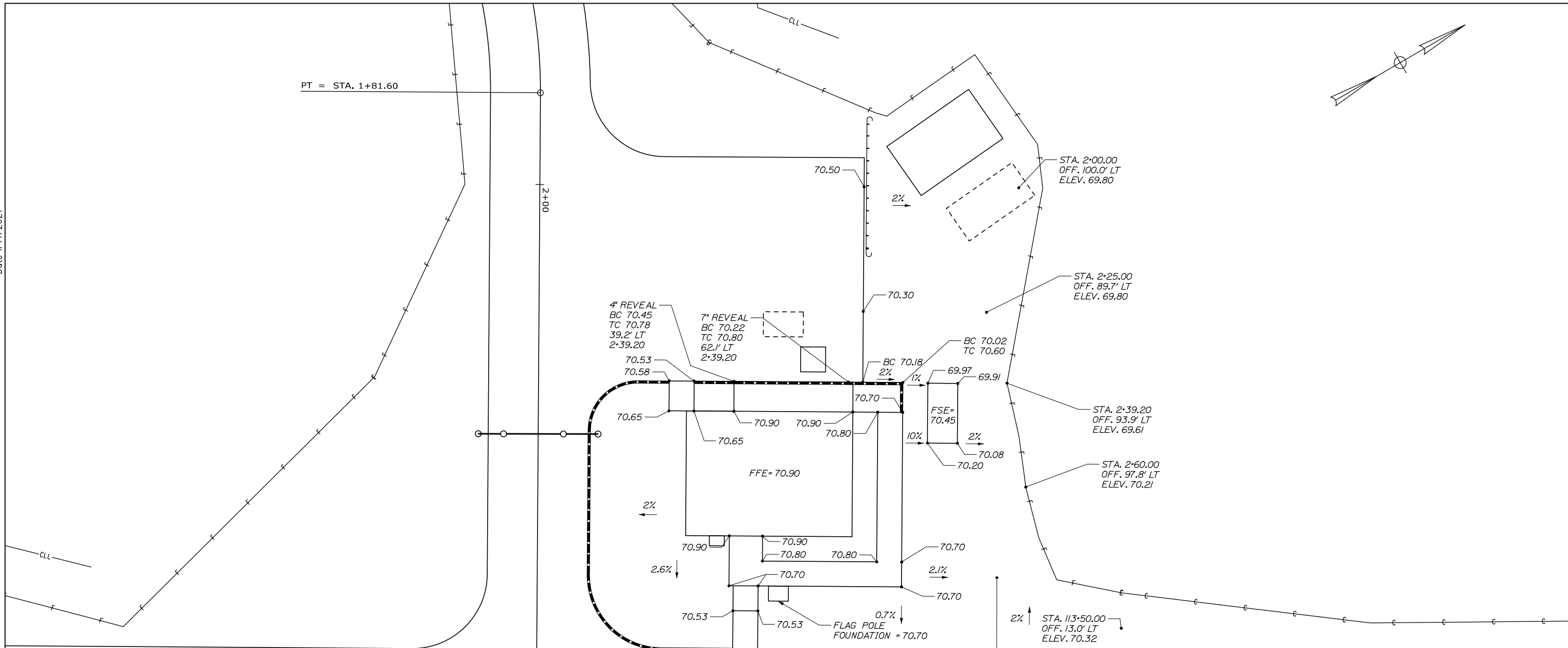
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

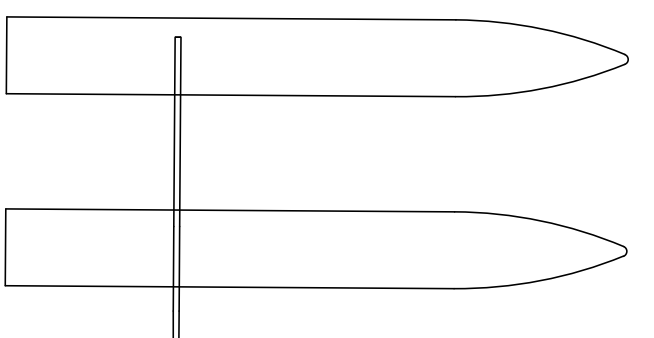
**EXIT 45
 INTERCHANGE RECONFIGURATION
 NORTHBOUND EXIT TOLL POINT
 GENERAL PLAN**

SHEET NUMBER: TGP-04
 CONTRACT: 2021.07
 348 OF 431

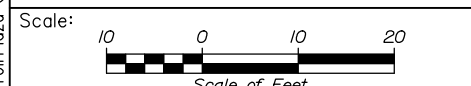
Date: 1/14/2021



112+00 POE = STA. 3+01.20 113+00 114+00



Filename: 00X_SB Toll Plaza Grading Plan.dgn



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	AJS	09\20	Checked	RBM	09\20
Drawn	AJS	09\20	In Charge of	RAL	09\20

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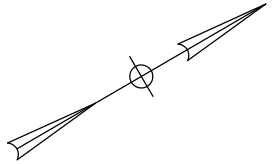
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

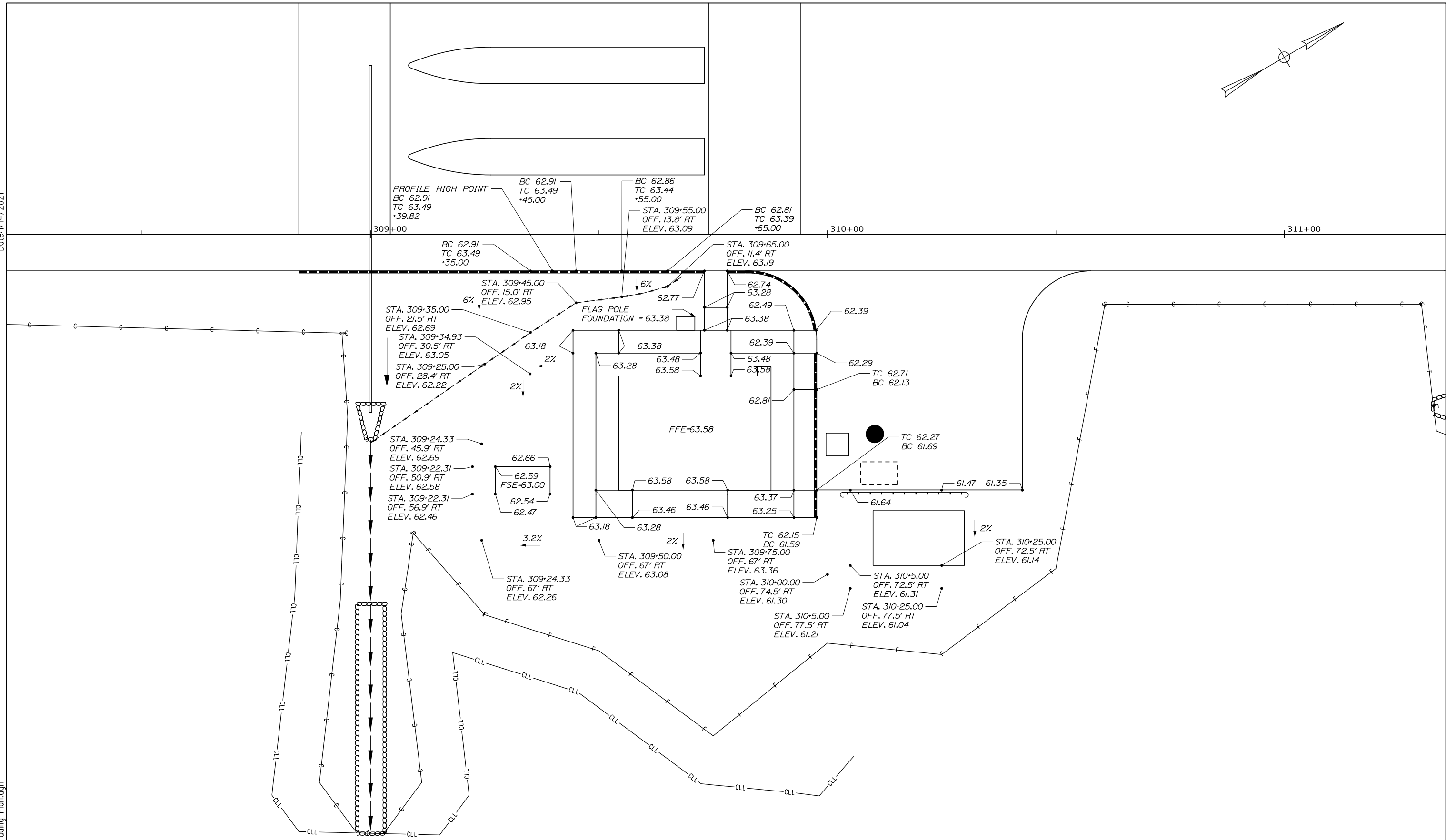
EXIT 45 INTERCHANGE RECONFIGURATION SOUTHBOUND ENTRY TOLL PLAZA GRADING PLAN

SHEET NUMBER: TGP-05
 CONTRACT: 2021.07
 349 OF 431



Date: 1/14/2021

Filename: 00X_NB Toll Plaza Grading Plan.dgn



Scale: Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	AJS 09\20	Checked	RBM 09\20
Drawn	AJS 09\20	In Charge of	RAL 09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
NORTHBOUND ENTRY TOLL PLAZA
GRADING PLAN

SHEET NUMBER: TGP-06
CONTRACT: 2021.07
350 OF 431

TOLLING - GENERAL

1. COORDINATE LOOP LOCATIONS WITH SYSTEM INTEGRATOR (SI) FOR SOFT CUT JOINTS TO PREVENT SOFT CUTS THROUGH LOOPS.

TOLLING - CASH LANE

1. SYSTEM INTEGRATOR SHALL PROVIDE THE FOLLOWING ITEMS TO BE INSTALLED BY THE CONTRACTOR:

- A. PELCO MOUNTING HOOK FOR THE DVAS CAMERA. PELCO MOUNT HOOKS FOR EACH ENTRY LANE SHALL BE INSTALLED ON GALVANIZED ANGLE STUBS ATTACHED TO CANOPY STRUCTURAL STEEL. THE MOUNTING HOOKS SHALL BE SECURE TO A 3" GALVANIZED RIGID PIPE SECURED TO THE ANGLE STUBS VIA GALVANIZED "U" BOLTS. THE FINAL LOCATION OF THE MOUNTING HOOKS SHALL BE REVIEWED AND APPROVED BY THE SYSTEM INTEGRATOR AND THE MAINE TURNPIKE AUTHORITY PRIOR TO INSTALLATION.
- B. LANE CONTROLLER CABINET
- C. MLT VGA AND AUDIO CABLES
- D. AVI ANTENNA

2. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING ITEMS:

- A. ALL REQUIRED JUNCTION BOXES, CONDUIT AND ASSOCIATED COMMUNICATION AND ELECTRICAL WIRING
- B. RED "X"/GREEN "ARROW" LANE USE SIGNAL ON FRONT OF CANOPY
- C. TRAFFIC CONTROL PEDESTAL (INSTALL ONLY)
- D. LANE CONTROLLER CABINETS AND METAL CLEATS (INSTALL ONLY)
- E. 36"X30"X20" NEMA 4X CABINET FOR AVI READERS
- F. ALL IVIS SENSOR LOOPS SHALL HAVE AN EPOXY OVERLAY PER SECTION 515 OF SPECIAL PROVISIONS. THE CASH LANE IVIS LOOPS WILL HAVE A 1/4" DEEP EPOXY OVERLAY, 8" WIDE MINIMUM, AS DETAILED ON PLAN SHEETS. SEE ITEM 515.23.
- G. CONTRACTOR TO SAW CUT FOR IVIS LOOPS

3. THE SYSTEM INTEGRATOR SHALL PROVIDE, INSTALL, AND TERMINATE THE FOLLOWING ITEMS:

- A. DVAS CAMERA
- B. LANE CONTROLLERS
- C. TRAFFIC CONTROL PEDESTAL (PROVIDE TCP AND TERMINATE DATA ONLY)
- D. MANUAL LANE TERMINAL
- E. AVI READERS
- F. IVIS LOOP SENSORS
- G. AVI MULTIPROTOCOL READERS

TOLL SYSTEM INTEGRATOR

1. THE CONTRACTOR'S SCHEDULE OF WORK SHALL ACCOUNT FOR THE INSTALLATION OF THE TOLLING EQUIPMENT IN EACH CASH LANE (14 CALENDAR DAYS PER LANE). ALL CIVIL WORK IN A CASH LANE SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF THE TOLLING EQUIPMENT IN THE RESPECTIVE LANE. TOLLING EQUIPMENT IS TO BE INSTALLED, TERMINATED, AND TESTED BY THE TOLL SYSTEM INTEGRATOR.

2. A CASH LANE SHALL NOT BE OPENED TO TRAFFIC UNTIL ALL TOLLING EQUIPMENT HAS BEEN INSTALLED IN THE RESPECTIVE LANE, HAS BEEN TESTED, AND COMMISSIONING HAS BEEN ACCEPTED BY THE MTA.

3. THE TOLL SYSTEM INTEGRATOR WILL HAVE 14 CALENDAR DAYS PER CASH LANE TO COMPLETE COMMISSIONING. THE CONTRACTOR WILL NEED TO ACCOUNT FOR THE TOLL SYSTEM INTEGRATOR WITHIN THEIR SCHEDULE OF WORK.

TOLLING - ELECTRICAL

1. LOOP GRADIENT SENSOR CONDUIT STUB-UPS WILL BE CONNECTED TO A HOME RUN CONDUIT VIA A 3" SANITARY TEE OR 90 PVC DWV.

2. ALL CONDUIT LOCATED IN THE TOLL LANES SHALL BE INSTALLED IN THE ROADWAY SUBBASE, BELOW THE CONCRETE SLAB. THE ONLY CONDUIT LOCATED WITHIN THE CONCRETE SLAB IS FOR STUB-UPS.

3. "KEY SWITCHES" WILL BE INSTALLED IN EACH CASH LANE BOOTH ADJACENT TO BOOTH UTILITY CHASE FOR THE INLINE CLEAN POWER OF EACH DVAS AND VES. POWER AND DATA CABLES FROM THE CASH LANE CONTROLLERS TO THE DVAS SHALL BE ROUTED UP THROUGH CANOPY SUPPORT COLUMNS. ANY CABLES AND/OR WIRES RUN TO DEVICES ON CANOPIES AND MAST ARMS SHALL BE RUN IN CONDUIT.

TOLLING - DEMOLITION OF OLD PLAZA

1. EQUIPMENT TO BE SALVAGED AND DELIVERED TO MTA BY CONTRACTOR:

- A. RECEIPT PRINTER (BOOTH)
- B. AVI ANTENNA (CANOPY)
- C. CANOPY OVERRIDE SWITCH (BOOTH)
- D. AVI READER

MAINTENANCE OF TRAFFIC

1. CANOPY LANE USE SIGNAL ABOVE CLOSED LANES SHALL BE RED.

2. CANOPY SIGNAGE ABOVE CLOSED LANES SHALL BE COVERED.

3. CONTRACTOR SHALL MAINTAIN A 5' WIDE PATHWAY FOR MTA EMPLOYEES TO ACCESS PLAZA BUILDING AND TOLL BOOTHS TO CROSS WORK ZONES SAFELY DURING ALL PHASES OF WORK. THIS MAY REQUIRE BREAKS IN BARRIER, USE OF BARRELS, SAFETY TAPE DELINEATING PATHS AND TEMPORARY SIGNAGE. THE PATH SHALL BE LIGHTED FROM DUSK TO DAWN AND FREE FROM TRIP HAZARDS. LIGHTING, SIGNAGE, AND SAFETY TAPE SHALL BE INCIDENTAL TO ITEM 659.10 MOBILIZATION.

4. REFER TO APPENDIX G OF SPECIFICATIONS FOR PLAZA SAFETY REQUIREMENTS.

Date: 1/14/2021

Filename: 00X_GeneralNotes.dgn

Scale:			
<i>NOT TO SCALE</i>			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	Designed	EDD 09\20	Checked	JRH	09\20
	Drawn	EPR 09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

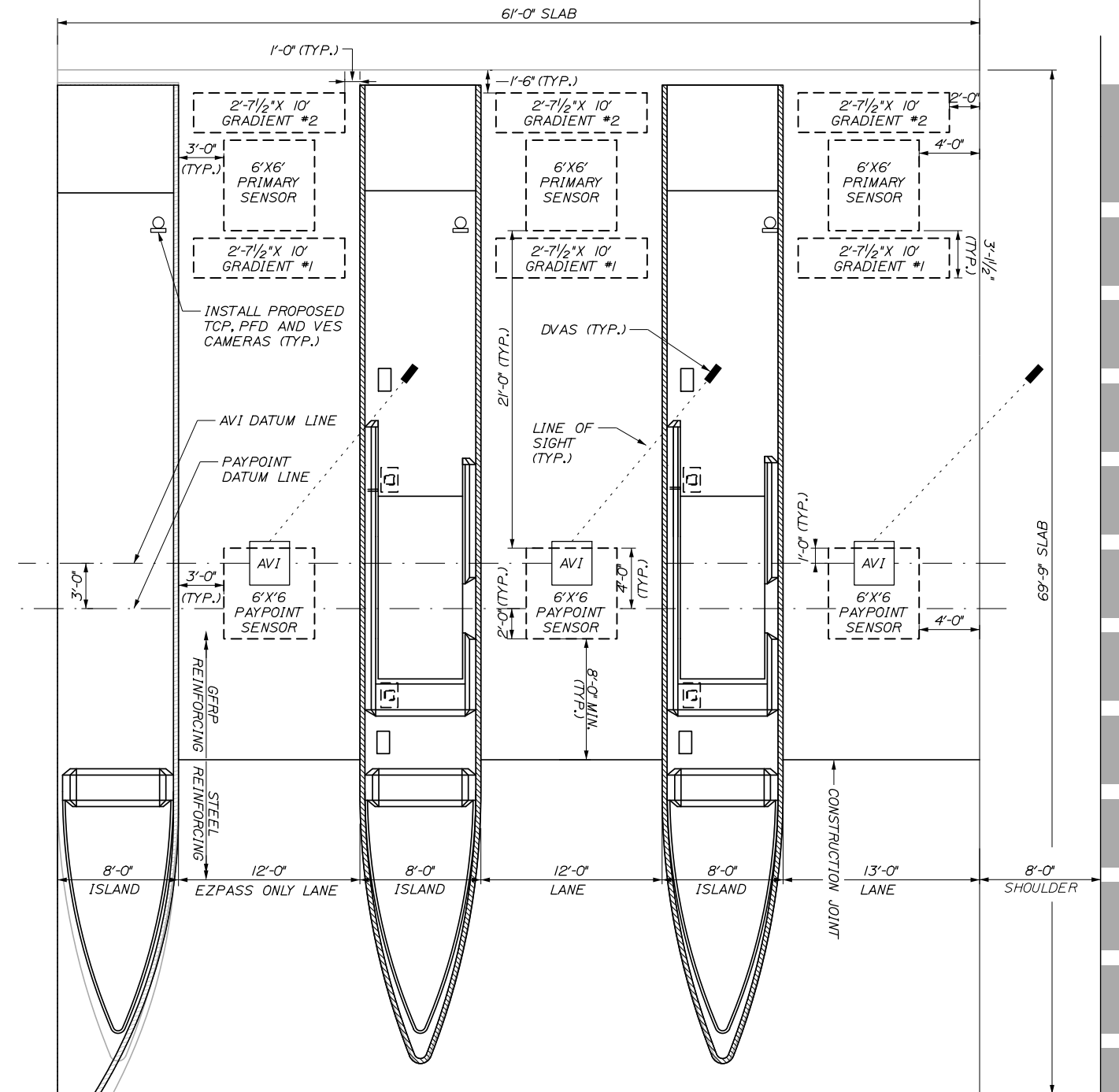
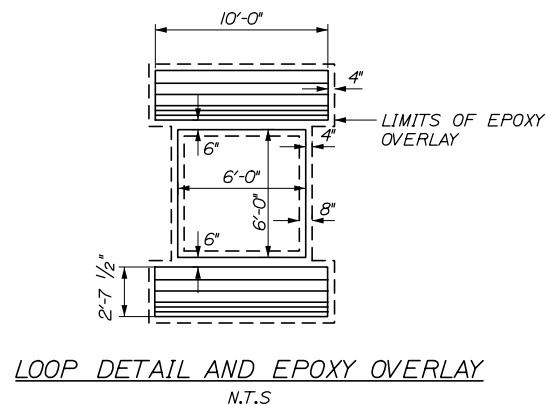
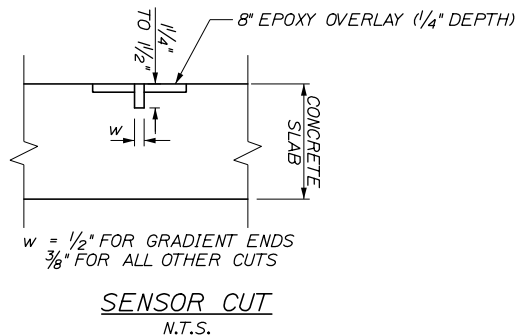
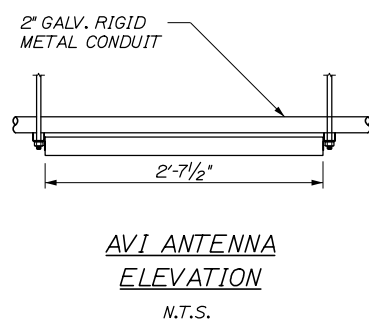
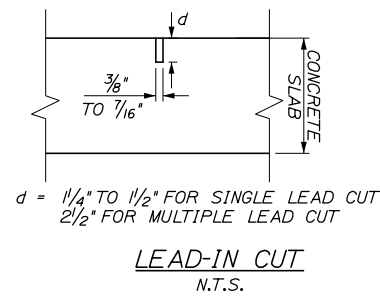
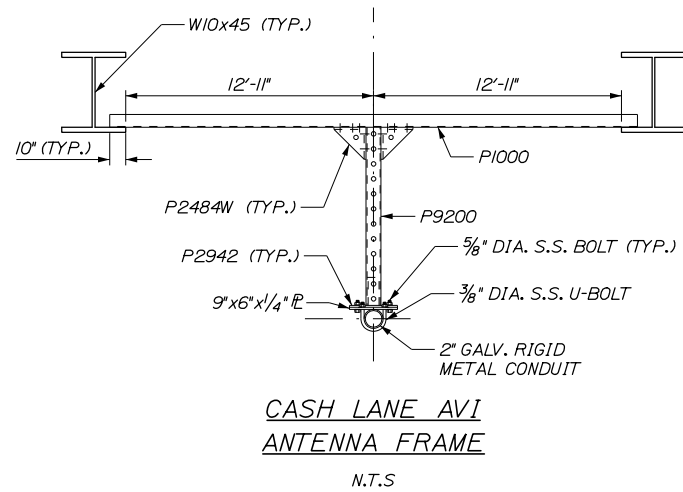
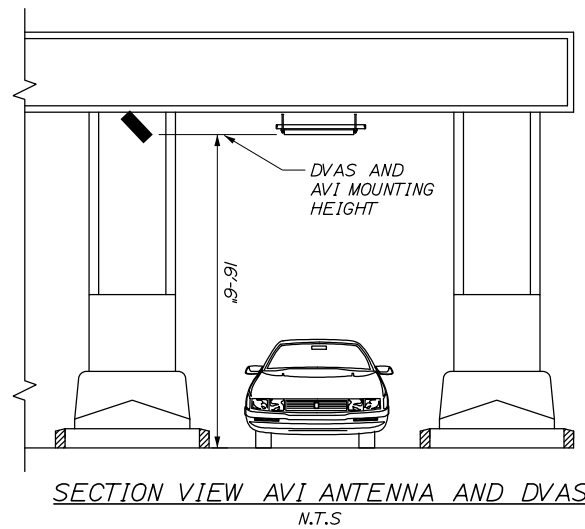
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION**

**TOLL PLAZA
GENERAL NOTES**

SHEET NUMBER: TN-01
 CONTRACT: 2021.07 351 OF 431

Date: 1/14/2021



- NOTES:
1. ALL LAYOUT FOR PAYPOINT, PRIMARY AND GRADIENT SENSORS SHALL BE VERIFIED BY SYSTEM INTEGRATOR PRIOR TO CUTTING CONCRETE. SYSTEM INTEGRATOR SHALL PROVIDE AND INSTALL LANE SENSOR LOOPS.
 2. FOR THE EPOXY OVERLAY, 1/4\"/>



Scale: 5 0 5 10
Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	RBM	09\20	Checked	RBM	09\20
Drawn	WWL	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

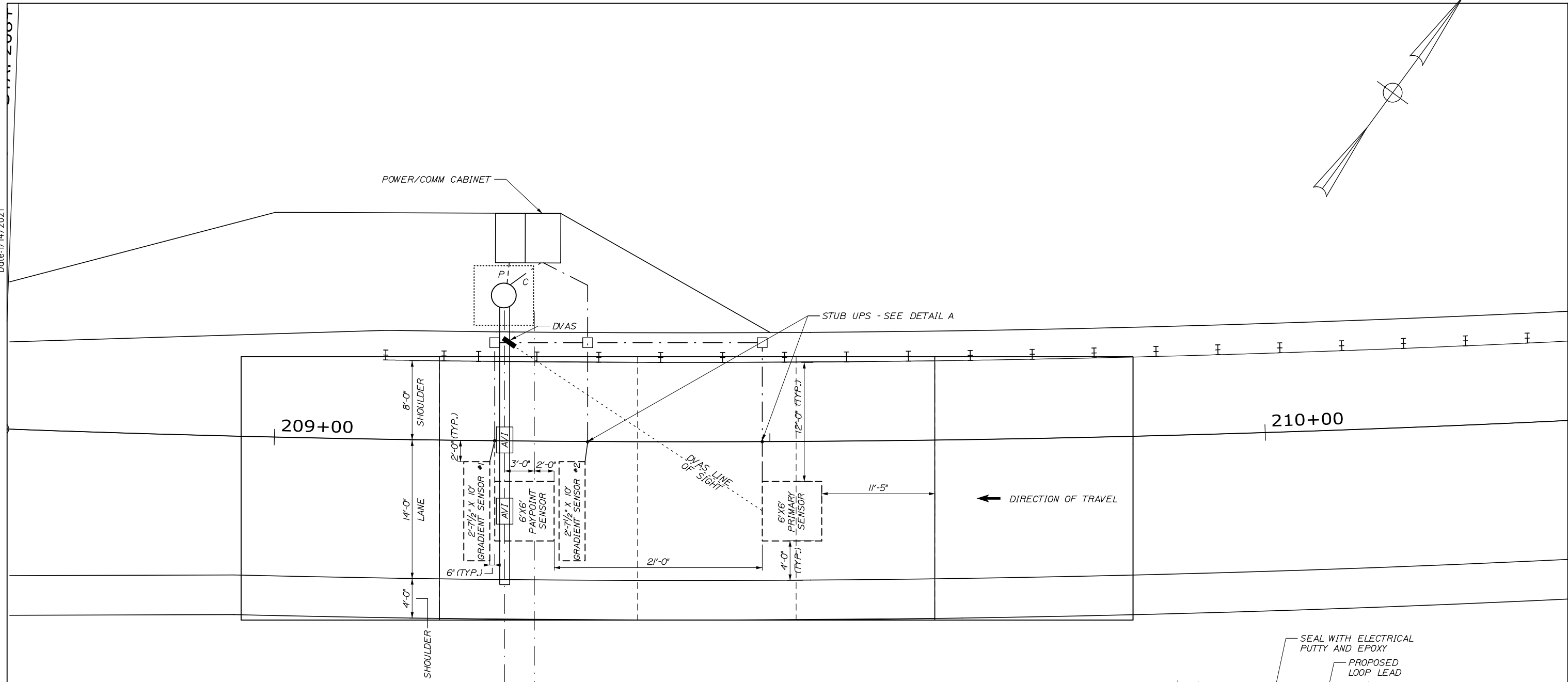
EXIT 45 INTERCHANGE RECONFIGURATION

ENTRY TOLL PLAZA EQUIPMENT LAYOUT

SHEET NUMBER: TSP-01
CONTRACT: 2021.07
352 OF 431

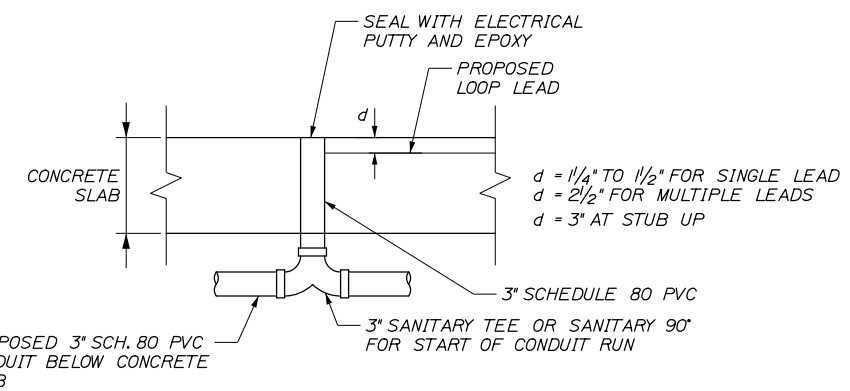
Filename: 00X_SB_Entry TollPlan.dgn

Date: 1/14/2021



NOTES:

1. LOOPS SHOWN FOR STUB-UP LAYOUT PURPOSES ONLY. LOOPS WILL NOT BE INSTALLED IN EXIT LANES.
2. SEE SHEET TSP-01 FOR ANTENNA AND DVAS MOUNTING HEIGHT DETAILS.
3. SEE POWER AND COMMUNICATION PLANS FOR CONDUIT AND WIRE PATH DETAILS.
4. SOUTHBOUND EXIT LANE IS SHOWN. NORTHBOUND EXIT LANE SIMILAR.



DETAIL A
STUB UP SLAB
SECTION VIEW

NOTE: SEALING STUB-UPS SHALL BE INCIDENTAL TO THE PVC PAY ITEM.

Scale: 10 0 5 10
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
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Drawn	WWL	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

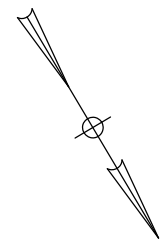
EXIT 45
INTERCHANGE RECONFIGURATION
EXIT TOLL POINT
EQUIPMENT LAYOUT

SHEET NUMBER: TSP-02
CONTRACT: 2021.07
353 OF 431

Filename: 00X_SB_Exit_Slab.dgn

Date: 1/14/2021

Filename: 00X_SB_Plaza Proposed Electrical Plan.dgn



INSTALL TRAFFIC CONTROL PEDESTAL, VES CAMERA, AND PATRON FARE DISPLAY (TYP.)

CONDUIT STUB-UP SEE DETAIL A, THIS SHEET (TYP.)

PROPOSED JUNCTION BOX (TYP.)

INSTALL NEW LANE 2 & 3 CONTROLLER CABINETS

PROPOSED JUNCTION BOX (TYP.)

(1) 1/2" SCH 80 PVC (TYP.)

(1) 1/2" SCH 80 PVC (TYP.)

100 AMP DIRTY POWER SUBPANEL

CONDUIT STUB UP - SEE DETAIL A

(6) 3" SCH 80 PVC (TYP.)

(6) 3" SCH 80 PVC (TYP.)

(3) 3" SCH 80 PVC (TYP.)

100 AMP DIRTY POWER SUBPANEL

INSTALL NEW LANE 1 CONTROLLER CABINET

STUB UP 2" SCH. 80 PVC CONDUIT DATA/POWER TO BOOTH PIT (TYP.)

PROPOSED GROUNDING WELL FOR LIGHTNING SUPPRESSION SYSTEM. NUMBER OF GROUNDING WELLS TO BE DETERMINED BY LIGHTNING SUPPRESSION CONTRACTOR

GROUND CABLE TO BUILDING #2/0 AWG BARE COPPER WIRE IN 1 1/2" SCH. 80 PVC. ATTACH TO GROUNDING WELL AT BUILDING

TIE INTO BUILDING GROUNDING SYSTEM

TOLL BUILDING

CONDUITS IN SAND BACKFILL

2 48"X36" QUAZITE JUNCTION BOXES

TOLLING CONDUIT

TRAFFIC SIGNAL CONDUIT

SEAL WITH ELECTRICAL PUTTY AND EPOXY

PROPOSED LOOP LEAD

CONCRETE SLAB

d = 1/4" TO 1/2" FOR SINGLE LEAD
d = 2/2" FOR MULTIPLE LEADS
d = 3" AT STUB UP ONLY

3" SCHEDULE 80 PVC

PROPOSED SCH. 80 PVC CONDUIT BELOW CONCRETE SLAB

SANITARY TEE OR SANITARY 90° FOR START OF CONDUIT RUN. USE REDUCERS TO FIT 1 1/2" CONDUIT.

DETAIL A
STUB UP IN CASH LANE SLAB
SECTION VIEW

NOTE: SEALING STUB-UPS SHALL BE INCIDENTAL TO THE PVC PAY ITEM.

↑
LANE 3

↑
LANE 2

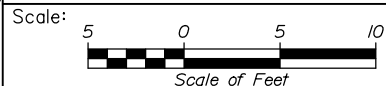
↑
LANE 1

ENTRY TOLL PLAZA LEGEND

POWER	P
COMMUNICATION	C

NOTES:

1. ALL ABOVE GROUND CONDUIT SHALL BE GALVANIZED RIGID METAL CONDUIT. ALL BELOW GROUND CONDUIT SHALL BE SCHEDULE 80 PVC CONDUIT.
2. ALL LOOP LEAD STUB UPS ARE 3" DIAMETER AND SHALL BE 3" MIN. FROM EDGE OF SLAB. THE TOP ELEVATION OF ALL SENSOR LOOP CONDUIT FROM STUB UPS SHALL BE AT BOTTOM OF SLAB. SEE DETAIL ON THIS SHEET.
3. CONTRACTOR SHALL CONFIRM LOCATIONS OF JOINTS AND STUB UPS PRIOR TO SETTING STUB UPS.
4. ALL SENSOR LOOP JUNCTION BOXES SHALL BE NON-METALLIC.
5. INSTALL NEW LANE CONTROLLERS AT LOCATIONS AS SHOWN ON THE PLANS, OR AS DIRECTED BY MTA AND SYSTEM INTEGRATOR.
6. SOUTHBOUND ENTRY PLAZA SHOWN, NORTHBOUND ENTRY PLAZA SIMILAR.



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
UNDERGROUND ELECTRICAL PLAN**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed RBM	09\20	Checked RBM	09\20
Drawn WWL	09\20	In Charge of RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

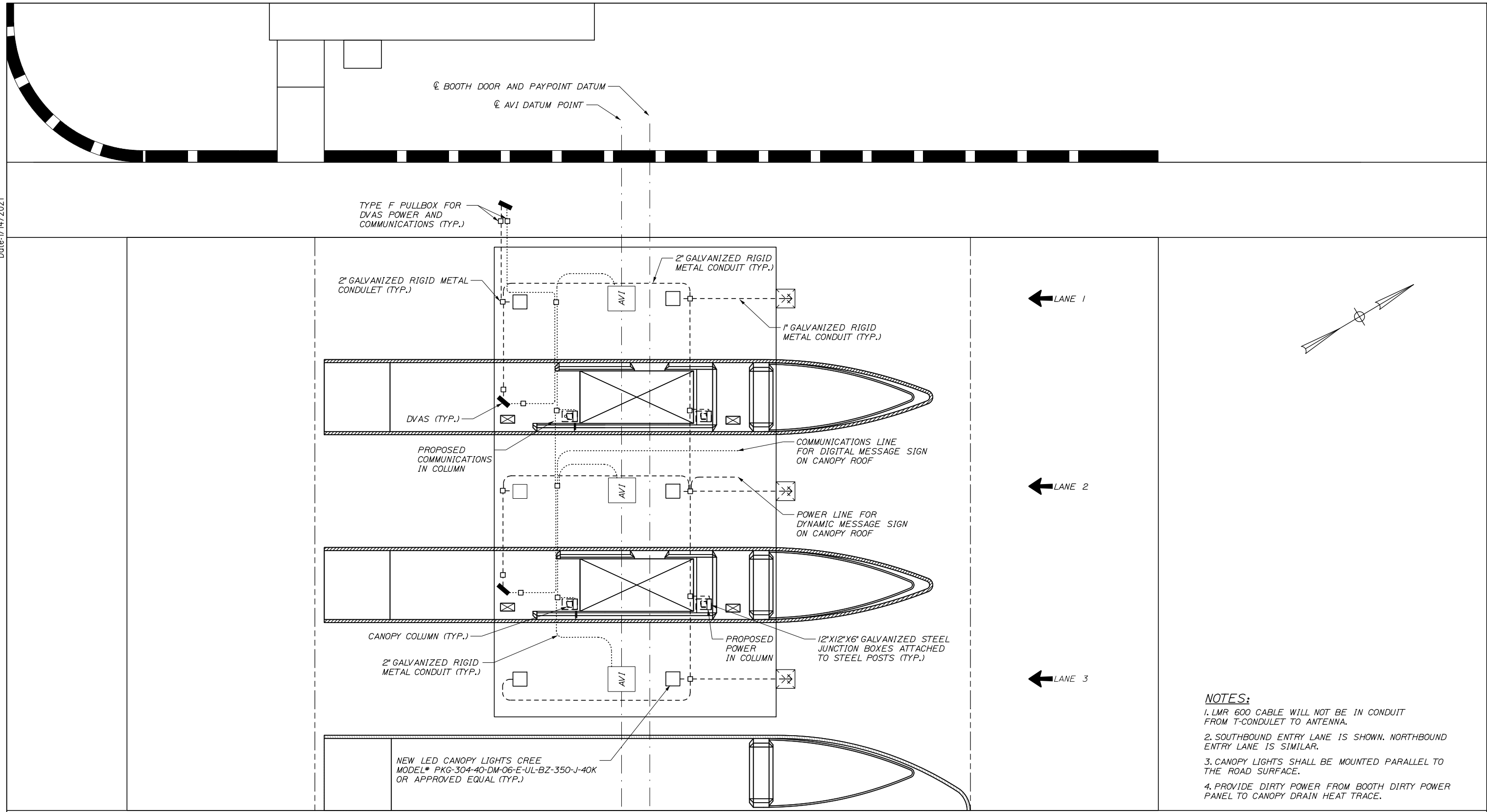
CONTRACT: 2021.07

SHEET NUMBER: TSP-03

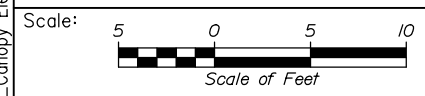
354 OF 431

Date: 1/14/2021

Filename: 00X_SB_Canopy_Electrical.dgn



- NOTES:**
1. LMR 600 CABLE WILL NOT BE IN CONDUIT FROM T-CONDULET TO ANTENNA.
 2. SOUTHBOUND ENTRY LANE IS SHOWN. NORTHBOUND ENTRY LANE IS SIMILAR.
 3. CANOPY LIGHTS SHALL BE MOUNTED PARALLEL TO THE ROAD SURFACE.
 4. PROVIDE DIRTY POWER FROM BOOTH DIRTY POWER PANEL TO CANOPY DRAIN HEAT TRACE.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
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Drawn	WWL	09\20	In Charge of	RAL	09\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

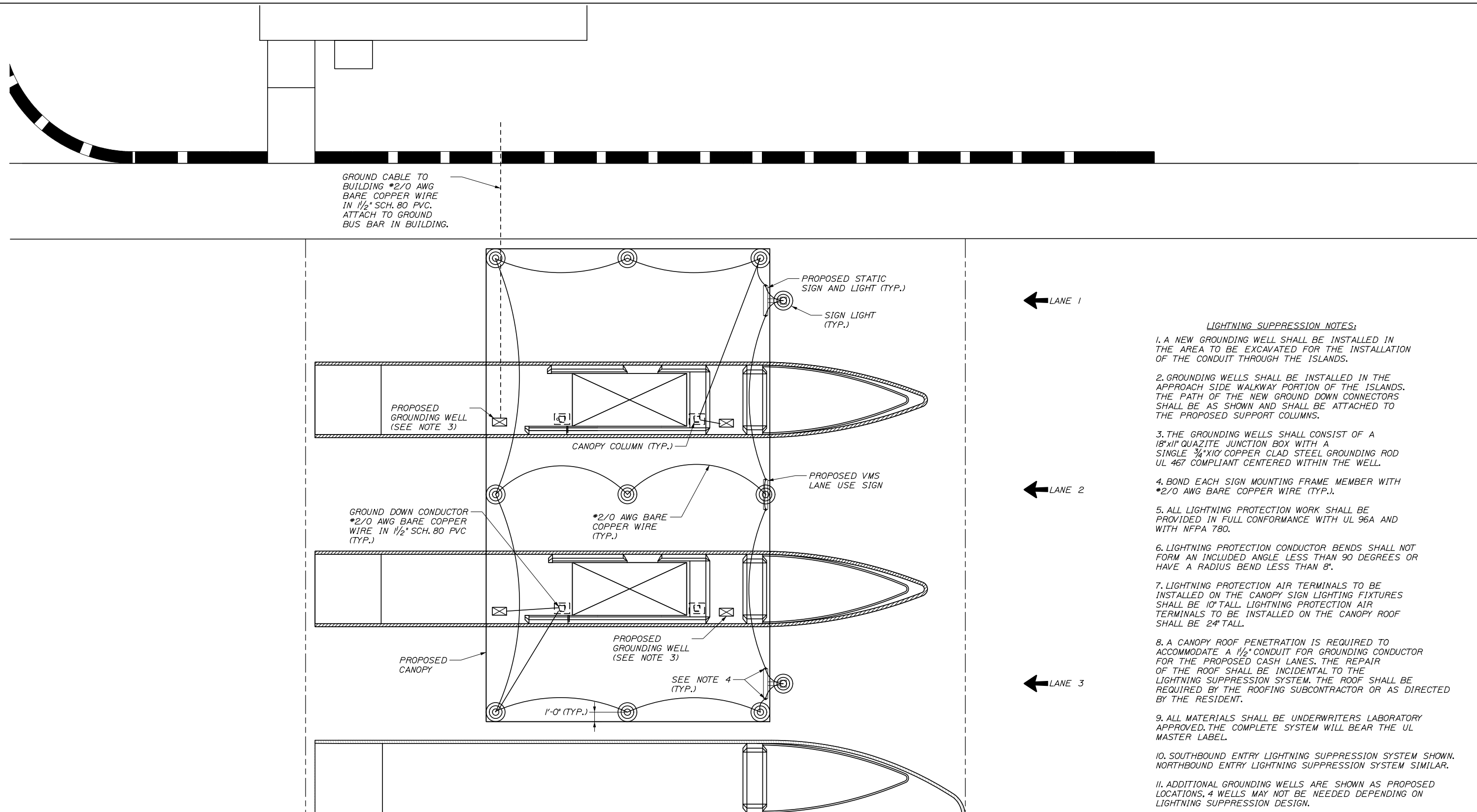
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 ENTRY TOLL PLAZA
 CANOPY ELECTRICAL**

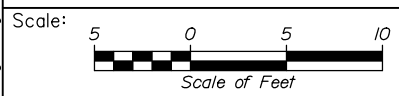
SHEET NUMBER: TSP-04
 CONTRACT: 2021.07
 355 OF 431

Date: 1/14/2021

Filename: 00X_SB_Lighting_Suppression.dgn



- LIGHTNING SUPPRESSION NOTES:**
1. A NEW GROUNDING WELL SHALL BE INSTALLED IN THE AREA TO BE EXCAVATED FOR THE INSTALLATION OF THE CONDUIT THROUGH THE ISLANDS.
 2. GROUNDING WELLS SHALL BE INSTALLED IN THE APPROACH SIDE WALKWAY PORTION OF THE ISLANDS. THE PATH OF THE NEW GROUND DOWN CONNECTORS SHALL BE AS SHOWN AND SHALL BE ATTACHED TO THE PROPOSED SUPPORT COLUMNS.
 3. THE GROUNDING WELLS SHALL CONSIST OF A 18"x11" QUAZITE JUNCTION BOX WITH A SINGLE 3/4"x10' COPPER CLAD STEEL GROUNDING ROD UL 467 COMPLIANT CENTERED WITHIN THE WELL.
 4. BOND EACH SIGN MOUNTING FRAME MEMBER WITH #2/0 AWG BARE COPPER WIRE (TYP.).
 5. ALL LIGHTNING PROTECTION WORK SHALL BE PROVIDED IN FULL CONFORMANCE WITH UL 96A AND WITH NFPA 780.
 6. LIGHTNING PROTECTION CONDUCTOR BENDS SHALL NOT FORM AN INCLUDED ANGLE LESS THAN 90 DEGREES OR HAVE A RADIUS BEND LESS THAN 8".
 7. LIGHTNING PROTECTION AIR TERMINALS TO BE INSTALLED ON THE CANOPY SIGN LIGHTING FIXTURES SHALL BE 10" TALL. LIGHTNING PROTECTION AIR TERMINALS TO BE INSTALLED ON THE CANOPY ROOF SHALL BE 24" TALL.
 8. A CANOPY ROOF PENETRATION IS REQUIRED TO ACCOMMODATE A 1/2" CONDUIT FOR GROUNDING CONDUCTOR FOR THE PROPOSED CASH LANES. THE REPAIR OF THE ROOF SHALL BE INCIDENTAL TO THE LIGHTNING SUPPRESSION SYSTEM. THE ROOF SHALL BE REQUIRED BY THE ROOFING SUBCONTRACTOR OR AS DIRECTED BY THE RESIDENT.
 9. ALL MATERIALS SHALL BE UNDERWRITERS LABORATORY APPROVED. THE COMPLETE SYSTEM WILL BEAR THE UL MASTER LABEL.
 10. SOUTHBOUND ENTRY LIGHTNING SUPPRESSION SYSTEM SHOWN. NORTHBOUND ENTRY LIGHTNING SUPPRESSION SYSTEM SIMILAR.
 11. ADDITIONAL GROUNDING WELLS ARE SHOWN AS PROPOSED LOCATIONS. 4 WELLS MAY NOT BE NEEDED DEPENDING ON LIGHTNING SUPPRESSION DESIGN.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	RBM	09\20	Checked	RBM	09\20
Drawn	WWL	09\20	In Charge of	RAL	09\20

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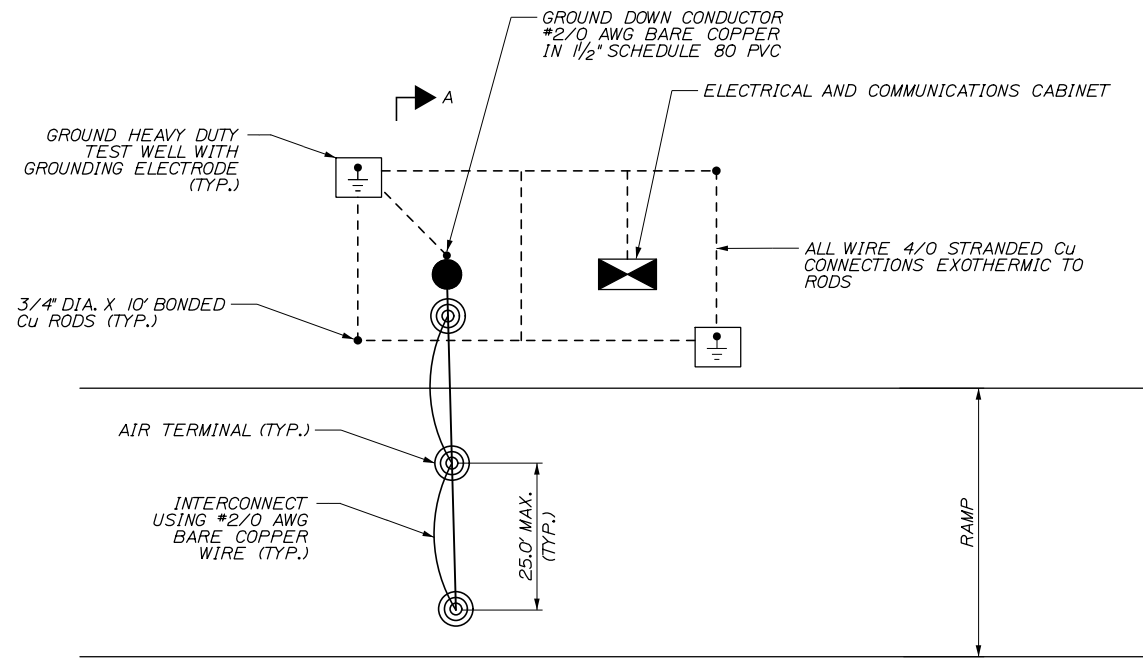
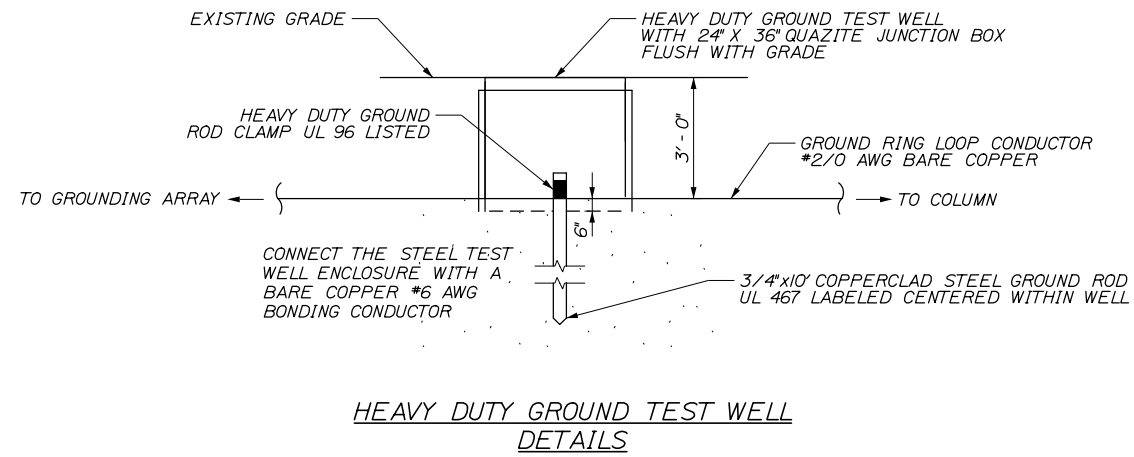
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.



**EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
LIGHTNING SUPPRESSION**

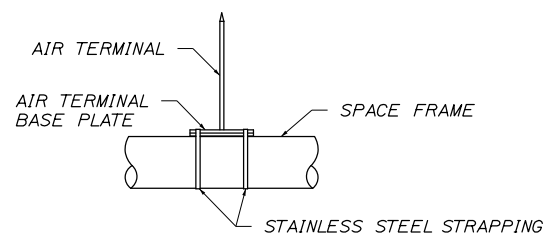
SHEET NUMBER: TSP-05
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356 OF 431

Date: 1/14/2021

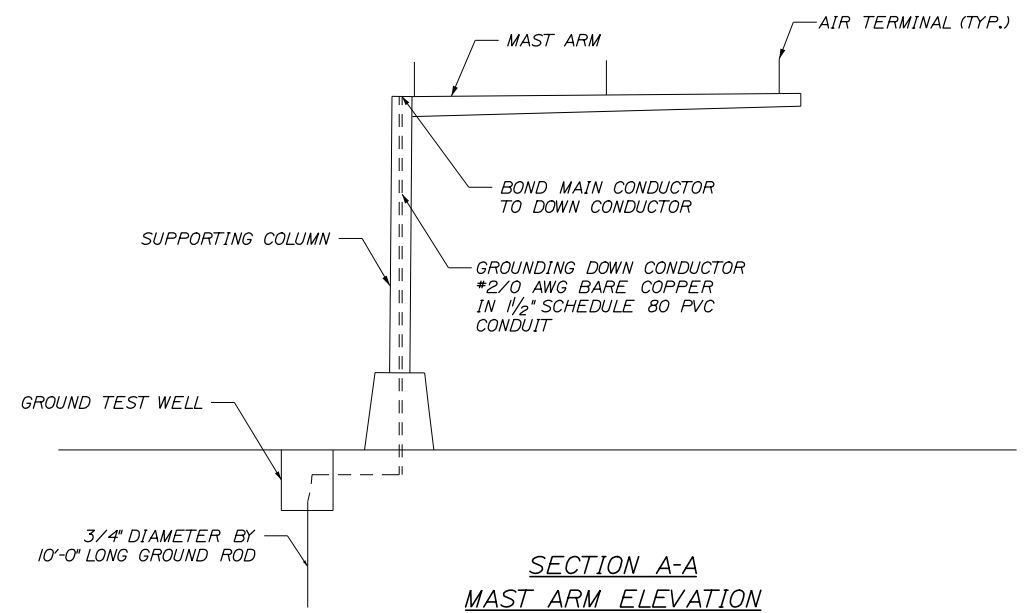


EXIT LANE LIGHTNING SUPPRESSION
ALL LANES SIMILAR

LEGEND
 AIR TERMINAL
 *2/0 AWG BARE COPPER WIRE



AIR TERMINAL MOUNTING DETAIL



SECTION A-A
MAST ARM ELEVATION

- NOTES:**
1. ALL WORK SHALL BE PROVIDED IN FULL CONFORMANCE WITH UL96A AND WITH NFPA 780.
 2. SPACING OF AIR TERMINALS SHALL NOT EXCEED 25 FEET ON CENTER.
 3. CONDUCTOR BENDS SHALL NOT FORM AN INCLUDED ANGLE LESS THAN 90 DEGREES OR HAVE A RADIUS OF BEND LESS THAN 8 INCHES.
 4. LIGHTNING PROTECTION AIR TERMINALS TO BE INSTALLED ON THE MAST ARM SHALL BE 24\"/>

Scale: **AS NOTED**

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	RBM	09\20	Checked	RBM	09\20
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

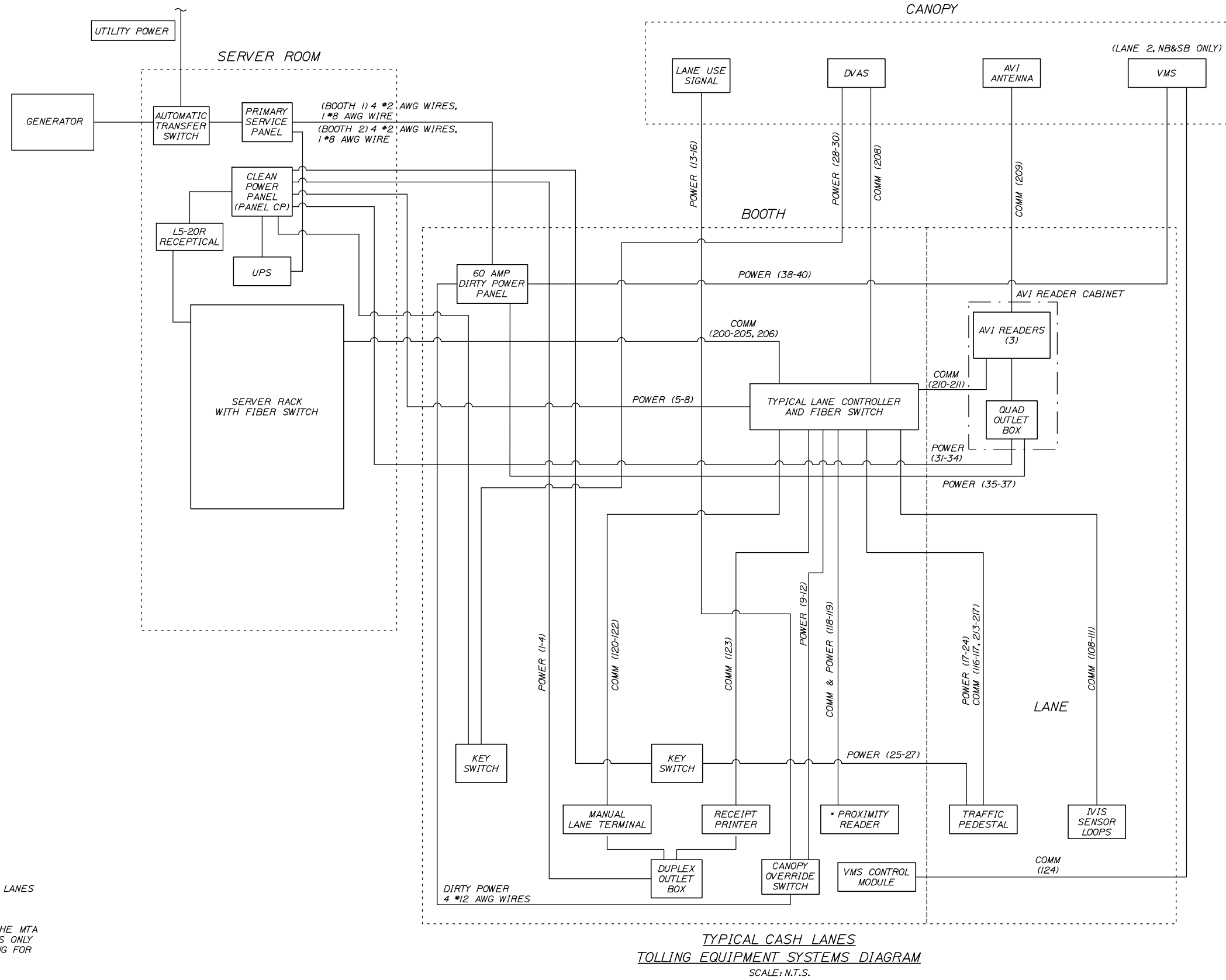
EXIT 45 INTERCHANGE RECONFIGURATION
EXIT TOLL GANTRY LIGHTNING SUPPRESSION

SHEET NUMBER: TSP-06
 CONTRACT: 2021.07
 357 OF 431

Filename: 00X_SB_Exit_Lightning Suppression.dgn

Date: 1/14/2021

Filename: 00X_LaneWiringDiagram_NB.dgn



LEGEND

	EQUIPMENT
	WIRING
	- SEE NOTE 4

NOTES:


- NUMBERS CORRESPOND TO NUMBERS LISTED ON WIRING SCHEDULES.
- 1. DIAGRAM SHOWN FOR NB CASH LANES
- 2. ALL WIRING AND EQUIPMENT FOR NB CASH LANES
- 3. SB CASH LANES SIMILAR.
- 4. PROXIMITY READER TO BE PROVIDED BY THE MTA FOR FUTURE INSTALLATION. CONTRACTOR IS ONLY RESPONSIBLE FOR INSTALLATION OF WIRING FOR PROXIMITY READER.

**TYPICAL CASH LANES
TOLLING EQUIPMENT SYSTEMS DIAGRAM**
SCALE: N.T.S.

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:							
HNTB							
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.							
	By	Date		By	Date		
	Designed	RBM	09\20	Checked	RBM	09\20	
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.


**EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA POWER &
COMMUNICATIONS LINE DIAGRAM**

SHEET NUMBER: TSP-07
CONTRACT: 2021.07
358 OF 431

Date: 1/14/2021

WIRING SHOWN IS FOR TYPICAL CASH LANE. REPLICATE FOR SIMILAR LANES. ATT/ETC LANE TYPE POWER WIRING SCHEDULE													
WIRE NUMBERING	WIRE LABEL (SOURCE.CIRCUIT.DESTINATION)	DESCRIPTION	AWG	COLOR	CORE	JACKET	VOLTAGE	CIRCUIT BREAKER	FROM	TO	LANE SERVER TERMINAL *	TERMINATION REQUIREMENTS	TERMINATIONS
BOOTH DUPLEX/QUAD OUTLET													
1	(LANE CONTROLLER).L.BQUAD	PERIPHERAL POWER (HOT, NON-SWITCHED)	12	BLACK	STRANDED	THHW	120 VAC	20	CLEAN POWER PANEL AND ISOLATED GROUND BAR	BOOTH DUPLEX OUTLET LOCATE WITHIN 3 FT OF ATTENDANT WORK AREA (UNDER DESKTOP)	N/A	DUPLEX OUTLET	POWER PANEL/DUPLEX OUTLET
2	(LANE CONTROLLER).N.BQUAD	PERIPHERAL POWER (NEUTRAL)		WHITE									POWER PANEL/DUPLEX OUTLET
3	(LANE CONTROLLER).G.BQUAD	PERIPHERAL POWER (GROUND)		GREEN									POWER PANEL/DUPLEX OUTLET
4	(LANE CONTROLLER).IG.BQUAD	PERIPHERAL POWER (ISOLATED GROUND)		GREEN W/ WHITE STRIPE									POWER PANEL/DUPLEX OUTLET
LANE SERVER													
5	(LANE CONTROLLER).LS.TI-1	LANE SERVER POWER (HOT, NON-SWITCHED)	12	BLACK	STRANDED	THHW	120 VAC	20	CLEAN POWER PANEL and ISOLATED GROUND BAR	LANE CONTROLLER FIELD WIRING (TI) TERMINAL BLOCK. LOCATE UNDER WORK COUNTER UPPER LEFT CORNER.	TI-1	BARE WIRE (Capped and Taped for termination by UTS)	POWER PANEL/LANE CONTROLLER
6	(LANE CONTROLLER).N.LS.TI-2	LANE SERVER POWER (NEUTRAL)		WHITE									POWER PANEL/LANE CONTROLLER
7	(LANE CONTROLLER).LS.TI-3	LANE SERVER POWER (GROUND)		GREEN									POWER PANEL/LANE CONTROLLER
8	(LANE CONTROLLER).IG.LS.TI-4	LANE SERVER POWER (ISOLATED GROUND)		GREEN W/ WHITE STRIPE									POWER PANEL/LANE CONTROLLER
CANOPY LANE USE SIGNAL													
9	COS.CTS-R.SIG	RED CANOPY TRAFFIC SIGNAL POWER (HOT, SWITCHED)	12	RED	STRANDED	THHW	120 VAC	N/A	LANE CONTROLLER (TI) TERMINAL BLOCK	CANOPY OVERRIDE SWITCH	TI-9	BARE WIRE	LANE CONTROLLER/CANOPY OVERRIDE SWITCH
10	COS.CTS-G.SIG	GREEN CANOPY TRAFFIC SIGNAL POWER (HOT, SWITCHED)		BLUE									LANE CONTROLLER/CANOPY OVERRIDE SWITCH
11	COS.CTS-N.SIG	CANOPY TRAFFIC SIGNAL POWER (NEUTRAL)		WHITE									LANE CONTROLLER/CANOPY OVERRIDE SWITCH
12	COS.CTS-CG.SIG	CANOPY TRAFFIC SIGNAL POWER (COMMON GROUND)		GREEN									LANE CONTROLLER/CANOPY OVERRIDE SWITCH
13	COS.CTS-R.SIG	RED CANOPY TRAFFIC SIGNAL POWER (HOT, SWITCHED)	12	RED	STRANDED	THHW	120 VAC	N/A	CANOPY OVERRIDE SWITCH	CANOPY LANE USE SIGNAL	TI-8	BARE WIRE	CANOPY OVERRIDE SWITCH/LANE USE SIGNAL
14	COS.CTS-G.SIG	GREEN CANOPY TRAFFIC SIGNAL POWER (HOT, SWITCHED)		BLUE									CANOPY OVERRIDE SWITCH/LANE USE SIGNAL
15	COS.CTS-N.SIG	CANOPY TRAFFIC SIGNAL POWER (NEUTRAL)		WHITE									CANOPY OVERRIDE SWITCH/LANE USE SIGNAL
16	COS.CTS-CG.SIG	CANOPY TRAFFIC SIGNAL POWER (COMMON GROUND)		GREEN									CANOPY OVERRIDE SWITCH/LANE USE SIGNAL
TRAFFIC CONTROL PEDESTAL (TCP)													
17	ITS.LS.TI-2	VIOLATION BEACON (HOT)	12	BLACK	STRANDED	THHW	120 VAC	-	LANE CONTROLLER (TI) TERMINAL BLOCK	TRAFFIC CONTROL PEDESTAL FIELD WIRING TERMINAL BLOCK 'TA'	TI-2	TA - TH BLACK	LANE CONTROLLER/TRAFFIC CONTROL PEDESTAL
18	ITS.LS.TI-3	LANE I ISLAND TRAFFIC SIGNAL RED LIGHT POWER (HOT, SWITCHED)		RED									LANE CONTROLLER/TRAFFIC CONTROL PEDESTAL
19	ITS.LS.TI-4	LANE I ISLAND TRAFFIC SIGNAL AMBER LIGHT POWER (HOT, SWITCHED)		YELLOW									LANE CONTROLLER/TRAFFIC CONTROL PEDESTAL
20	ITS.LS.TI-5	LANE I ISLAND TRAFFIC SIGNAL GREEN LIGHT POWER (HOT, SWITCHED)		BLUE									LANE CONTROLLER/TRAFFIC CONTROL PEDESTAL
21	ITS.LS.TI-6	LANE I ISLAND TRAFFIC SIGNAL POWER (NEUTRAL)		WHITE									LANE CONTROLLER/TRAFFIC CONTROL PEDESTAL
22	PTD.LS.TI-6	LANE I PATRON TOLL DISPLAY POWER (HOT, NON-SWITCHED)		BLACK									LANE CONTROLLER/TRAFFIC CONTROL PEDESTAL
23	PTD.LS.TI-7	LANE I PATRON TOLL DISPLAY POWER (NEUTRAL)	WHITE	LANE CONTROLLER/TRAFFIC CONTROL PEDESTAL									
24	PTD.LS.TI-8	LANE I PATRON TOLL DISPLAY POWER (GROUND)	GREEN	LANE CONTROLLER/TRAFFIC CONTROL PEDESTAL									
25	(Primary Power Panel).TCP	VES/TCP POWER (HOT, KEY SWITCHED)	12	BLACK	STRANDED	THHW	120 VAC	-	CLEAN POWER PANEL (TO KEY SWITCH)	(KEY SWITCH TO) TRAFFIC CONTROL PEDESTAL FIELD WIRING TERMINAL BLOCK 'TB'	N/A	TB - 120V (H)	POWER PANEL/TRAFFIC PEDESTAL
26	(Primary Power Panel).N.TCP	VES/TCP POWER (NEUTRAL)		WHITE									POWER PANEL/TRAFFIC PEDESTAL
27	(Primary Power Panel).G.TCP	VES/TCP POWER (GROUND)		GREEN									POWER PANEL/TRAFFIC PEDESTAL
LANE DIGITAL VIDEO AND AUDIT CAMERA (DVAS)													
28	(Primary Power Panel).PP	LANE DVAS PAYPOINT CAMERA ENCLOSURE POWER (HOT - KEY SWITCHED)	12	BLACK	STRANDED	THHW	120 VAC	N/A	CLEAN POWER PANEL (TO KEY SWITCH)	(KEY SWITCH TO) DVAS CAMERA ENCLOSURE	N/A	BARE WIRE (Capped and Taped for termination by UTS)	CLEAN POWER/DVAS
29	(Primary Power Panel).N.PP	LANE DVAS PAYPOINT CAMERA ENCLOSURE POWER (NEUTRAL)		WHITE									CLEAN POWER/DVAS
30	(Primary Power Panel).G.PP	LANE DVAS PAYPOINT CAMERA ENCLOSURE POWER (GROUND)		GREEN									CLEAN POWER/DVAS
AUTOMATIC VEHICLE IDENTIFICATION (AVI)													
31	(Primary Clean Power Panel).L.AVI	LANE AVI READER QUAD POWER (AC HOT-CLEAN)	12	BLACK	STRANDED	THHW	120 VAC	20	CLEAN POWER PANEL AND ISOLATED GROUND (TO 1/2 QUAD OUTLET INSIDE AVI READER CABINET)	(1/2 QUAD OUTLET TO AVI READERS-CLEAN)	N/A	1/2 OF QUAD OUTLET INSIDE AVI READER CABINET-CLEAN	POWER PANEL/AVI READERS
32	(Primary Clean Power Panel).N.AVI	LANE AVI READER QUAD POWER (AC NEUTRAL-CLEAN)		WHITE									POWER PANEL/AVI READERS
33	(Primary Clean Power Panel).G.AVI	LANE AVI QUAD READER (GROUND-CLEAN)		GREEN									POWER PANEL/AVI READERS
34	(Primary Clean Power Panel).IG.AVI	LANE AVI QUAD READER (ISOLATED GROUND-CLEAN)		GREEN W/ WHITE STRIPE									POWER PANEL/AVI READERS
35	(Dirty Power Panel).L.AVI	LANE AVI READER QUAD POWER (AC HOT-DIRTY)	12	BLACK	STRANDED	THHW	120 VAC	20	DIRTY POWER PANEL (TO 1/2 QUAD OUTLET INSIDE AVI READER CABINET)	(1/2 QUAD OUTLET TO AVI READERS-DIRTY)	N/A	1/2 OF QUAD OUTLET INSIDE AVI READER CABINET-DIRTY	POWER PANEL/AVI READERS
36	(Dirty Power Panel).N.AVI	LANE AVI READER QUAD POWER (AC NEUTRAL-DIRTY)		WHITE									POWER PANEL/AVI READERS
37	(Dirty Power Panel).G.AVI	LANE AVI QUAD READER (GROUND-DIRTY)		GREEN									POWER PANEL/AVI READERS
VARIABLE MESSAGE SIGN (VMS)													
38	(Dirty Power Panel).L.VMS	LANE VMS (AC HOT)	12	BLACK	STRANDED	THHW	120 VAC	20	DIRTY POWER PANEL	VARIABLE MESSAGE SIGN	N/A	LANE X (NB), LANE X (SB) CANOPY SIGN	DIRTY POWER/VMS
39	(Dirty Power Panel).N.VMS	LANE VMS (AC NEUTRAL)		WHITE									DIRTY POWER/VMS
40	(Dirty Power Panel).G.VMS	LANE VMS (AC GROUND)		GREEN									DIRTY POWER/VMS



Filename: 00X_Cash Lane Power Schedule1.dgn

Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION TOLL PLAZA CASH LANE POWER SCHEDULE	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		CONTRACT: 2021.07 SHEET NUMBER: TSP-08 359 OF 431	
				Designed	RBM	09\20	Checked	RBM	09\20
				Drawn	WWL	09\20	In Charge of	RAL	09\20

Date: 1/14/2021

WIRE NUMBERING	WIRE LABEL	DESCRIPTION	AWG	COLOR	CORE	STANDARD	FROM	TO	LANE SERVER TERMINAL *	
<p>WIRING SHOWN IS FOR CASH LANE. REPLICATE FOR SIMILAR LANES. ATT/ETC DISCRETE WIRING SCHEDULE - DATA: DOOR WIRING LOGIC, SERIAL, VIDEO, AUDIO (Primary Server) Intelligent Vehicle Identification System (IVIS) (For Wiring Only. Home Run Lead supplied as part of Sensor)</p>										
100	T4-49.GI	NOT USED						<p>SENSORS COME WITH 80' PIGTAIL. IF ADDITIONAL WIRE NEEDED SPLICE TO IMSA-50-2 TYPE CABLE. INSTALL THE HOME RUN CABLE FROM THE LANE GROUND BOX TO THE LANE SERVER CONNECTION SPECIFIED IN THE ADJ COLUMN. ALL SPLICES MUST BE SOLDERED, TIGHTLY TWISTED, AND INSULATED TO BE WATER RESISTANT. FOR LANES NOT HAVING PRE_CLASSIFICATION, DELETE REQUIREMENTS FOR PRE_CLASSIFICATION SENSORS AND INTELLIGENT QUEUING SENSOR</p>	T4-49	
101	T4-50.GI						T4-50			
102	T4-51.PI	NOT USED					T4-51			
103	T4-52.PI						T4-52			
104	T4-53.G2	NOT USED					T4-53			
105	T4-54.G2						T4-54			
106	T4-55.IQ	NOT USED					T4-55			
107	T4-56.IQ						T4-56			
108	T4-57.PP	PAYPOINT PRIMARY SENSOR	14	BLACK	STRANDED	IMSA50-2	PAYPOINT PRIMARY SENSOR		T4-57	
109	T4-58.G3	POST CLASSIFICATION GRADIENT SENSOR #1	14	BLACK	STRANDED	IMSA50-2	POST-CLASSIFICATION GRADIENT SENSOR #1		T4-59	
110	T4-59.P4	POST CLASSIFICATION PRIMARY SENSOR	14	BLACK	STRANDED	IMSA50-2	POST-CLASSIFICATION PRIMARY SENSOR	T4-61		
111	T4-60.G4	POST CLASSIFICATION GRADIENT SENSOR #2	14	BLACK	STRANDED	IMSA50-2	POST-CLASSIFICATION GRADIENT SENSOR #2	T4-63		
Toll Booth Peripheral Cables (MLT, Printer, PC Prox, PTD Display)										
116	S3.I.PTD	PATRON FARE DISPLAY		Cat5e		BARE WIRE AT PEDESTAL	FIELD WIRED - ONLY FOUR PINS USED: PIN 3 - DEVICE RECEIVE, PIN 5 - GROUND, PINS 7 AND 8 JUMPERED	RS232	PEDESTAL WIRE CENTER TA - PTD DATA PEDESTAL WIRE CENTER TA - PTD DATA	TBD
117	Lane(*JTR	LANE TRIGGER		Cat5e		BARE WIRE	Pin to Pin	TTL(optically Isolated)	(See Note 1 below) Wire to Designated Trigger Terminals for Front and Rear Trigger (+/-) in Pedestal Wire Center	TBD
118	S8.PROX	MANUAL LANE TERMINAL PCPROX CARD READER		Cat5e		DB9 (MALE)	SERIAL	RS232	(See Note 1 below)	S-8
119	PROXPWR	MANUAL LANE TERMINAL PCPROX CARD READER POWER		Cat5e		PS2 (FEMALE)	SERIAL	RS232	(See Note 1 below)	PS/2
120	S9.MLT	TOLL BOOTH MANUAL LANE TERMINAL (MLT) COMMUNICATIONS		Cat5e		RJ-45	SERIAL	RS232	(See Note 1 below)	TBD
121	MLTVGA	TOLL BOOTH MANUAL LANE TERMINAL VIDEO		Cat5e		RJ-45	VGA	RS232	(See Note 1 below)	MONITOR
122	MLTAUDIO	TOLL BOOTH MANUAL LANE TERMINAL SPEAKER		3.5mm Plug (MALE)		3.5mm Plug (MALE)	AUDIO	AUDIO	PREFAB AUDIO CABLE	AUDIO
123	S10.RP	TOLL BOOTH RECEIPT PRINTER COMMUNICATIONS		RJ-45		DB25 (MALE)	NULL MODEM	RS232	PREFAB NULL MODEM CABLE - NOT TO EXCEED 100 FT	TBD
VARIABLE MESSAGE SIGN (VMS)										
124	VMS	VMS CONTROL		Cat5e		RJ-45	VMS CONTROL MODULE	RJ-45	See Note 3	N/A
<p>Notes: 1.) Lane Server to peripheral cable pin connections - refer to peripheral Installation Guide. RJ-45 at Lane Server: 1=CTS, 2=CD, 3=RxD, 4=Gnd, 5=Gnd, 6=TxD, 7=DTR, 8=RTS. (No handshaking is used) 2.) Schedule does not include booth access control requirements, booth DVAS or wiring. 3.) Wiring is to be installed per the VMS manufacturer.</p>										


Filename: 00X_Cash_Lane_Data_Schedule.dgn

Scale:		Designed by:		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION TOLL PLAZA CASH LANE DATA SCHEDULE	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.				SHEET NUMBER: TSP-09	
				Designed	RBM	09\20	Checked	RBM	09\20
				Drawn	WWL	09\20	In Charge of	RAL	09\20
						MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		CONTRACT: 2021.07	
								360 OF 431	

Date: 1/14/2021

WIRING SHOWN IS FOR CASH LANE. REPLICATE FOR SIMILAR LANES. ATT-ETC LANE NETWORK WIRING SCHEDULE LANE SERVER MULTIMODE FIBER (FOR REMOTE SWITCH ACCESS)								
WIRE NUMBERING	WIRE LABEL	DESCRIPTION	COLOR	CONNECTOR AT FX PATCH PANEL (COMPUTER ROOM)	COMMUNICATIONS SWITCH IN THE LANE SERVER	WIRING CONVENTION	PROTOCOL	FIELD WIRING INSTRUCTIONS
200	(Ln*)LS	LANE SERVER NETWORK CONNECTION - SEND	BLUE	ST (MALE)	ST (MALE)	6-FIBER (TYP) (4 Min Fiber) MULTI-MODE 100mbs	62.5/125 MICRONS INDOOR/OUTDOOR RISER RATED	FROM PLAZA COMMUNICATIONS RACK FIBER (FX) PATCH PANEL TO THE BOOTH LANE SERVER FIBER LINE INTERFACE UNIT (LIU) IN THE CABINET OR GUTTER. PROVIDE 1 EA 3M DUPLEX FX PATCH CABLE (STM to STM) FROM THE LIU TO THE LANE 1 LANE SERVER NETWORK SWITCH.
201		LANE SERVER NETWORK CONNECTION - RECEIVE	ORANGE					
202		LANE SERVER NETWORK CONNECTION - SPARE SEND	GREEN					
203		LANE SERVER NETWORK CONNECTION - SPARE RECEIVE	BROWN					
204		LANE SERVER NETWORK CONNECTION - SPARE SEND (optional)	SLATE					
205		LANE SERVER NETWORK CONNECTION - SPARE RECEIVE (optional)	WHITE					
LANE SERVER ETHERNET CONNECTION (FOR LOCAL SWITCH -SAME ROOM- ACCESS)								
206	(Ln*)LS	LANE SERVER NETWORK CONNECTION (CAT5E/6 CABLE ALTERNATIVE TO FIBER ABOVE IF LOCAL SWITCH PROVIDED AND CONNECTION IS LESS THAN 300 FEET)	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	UTP	CAT5E BULK CABLE FROM THE SERVER ROOM TO THE LANE CABINET FIBER SWITCH LANE SERVER SWITCH. TERMINATE AND TEST CABLE RUN.
DIGITAL VIDEO AUDIT SYSTEM (DVAS)								
208	DVAS.(Ln*).PP	LANE DVAS PAYPOINT CAMERA NETWORK CONNECTIONS	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER AND FIBER SWITCH TO THE LANE DVAS PAYPOINT CAMERA. TERMINATE AND TEST CABLE RUN. ALLOW 10' OF CABLE TO REACH FROM THE DVAS DATA JUNCTION BOX TO THE LANE 1 CAMERA ENCLOSURE.
AUTOMATIC VEHICLE IDENTIFICATION (AVI)								
209	AVI.LN(*)	TRAVEL LANE AVI ANTENNA RF CABLE	BLACK	LANE ANTENNA IN THE GANTRY	*M CONNECTOR (MALE)	LMR 600	PVC	LMR 600 CABLE FROM TRAVEL LANE ANTENNA TO E-6 READER. SEE SPECIFICATIONS FOR REQUIRED TERMINATIONS.
210	(Ln*).AVIE	LANE AVI READER ETHERNET DATA CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	10/100 UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER CONNECTION PANEL AVI IIO JACK TO THE LANE AVI READER SERIAL TO ETHERNET CONVERTER.
211	(Ln*).AVIS	LANE AVI READER DATA CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	10/100 UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER CONNECTION PANEL AVI IIO JACK TO THE LANE AVI READER SERIAL TO ETHERNET CONVERTER.
TRAFFIC CONTROL PEDESTAL (TCP) MAINTENANCE PORT								
213	(Ln*).TCPFVES	LANE TRAFFIC CONTROL PEDESTAL VES CAMERA CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	GIGABIT UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER CONNECTION PANEL VES IIO JACK TO THE LANE ISLAND TRAFFIC CONTROL PEDESTAL FRONT CAMERA PORT.
214	(Ln*).TCPRVES	LANE TRAFFIC CONTROL PEDESTAL VES CAMERA CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	GIGABIT UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER CONNECTION PANEL VES IIO JACK TO THE LANE ISLAND TRAFFIC CONTROL PEDESTAL REAR CAMERA PORT.
215	(Ln*).TCPPM	LANE TRAFFIC CONTROL PEDESTAL MAINTENANCE NETWORK CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	GIGABIT UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER AND FIBER SWITCH TO THE LANE ISLAND TRAFFIC CONTROL PEDESTAL MAINTENANCE PORT.
216	(Ln*).TCPT	LANE TRAFFIC CONTROL PEDESTAL TRIGGER CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	GIGABIT UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER AND FIBER SWITCH TO THE LANE ISLAND TRAFFIC CONTROL PEDESTAL MAINTENANCE PORT.
217	(Ln*).TCPP	LANE TRAFFIC CONTROL PEDESTAL PFD CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	4pr/24AWG CAT-5e DIRECT BURIAL GRADE (NO GEL)	GIGABIT UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER CONNECTION PANEL PFD IIO JACK TO THE LANE ISLAND TRAFFIC CONTROL PEDESTAL PFD PORT.
NOTES:								
1). ALL NETWORK CABLES ARE GIGABIT COMPLIANT, SUITABLE FOR OUTDOOR/WET ENVIRONMENT, OSP GRADE FOR DIRECT BURIAL								
2). STRADDLE ANTENNAS/READERS ARE LOCATED BETWEEN LANES ABOVE THE STRIPE. IF STRADDLE ANTENNAS/READERS ARE OMITTED BY PLANS, WIRING MAY BE OMITTED								

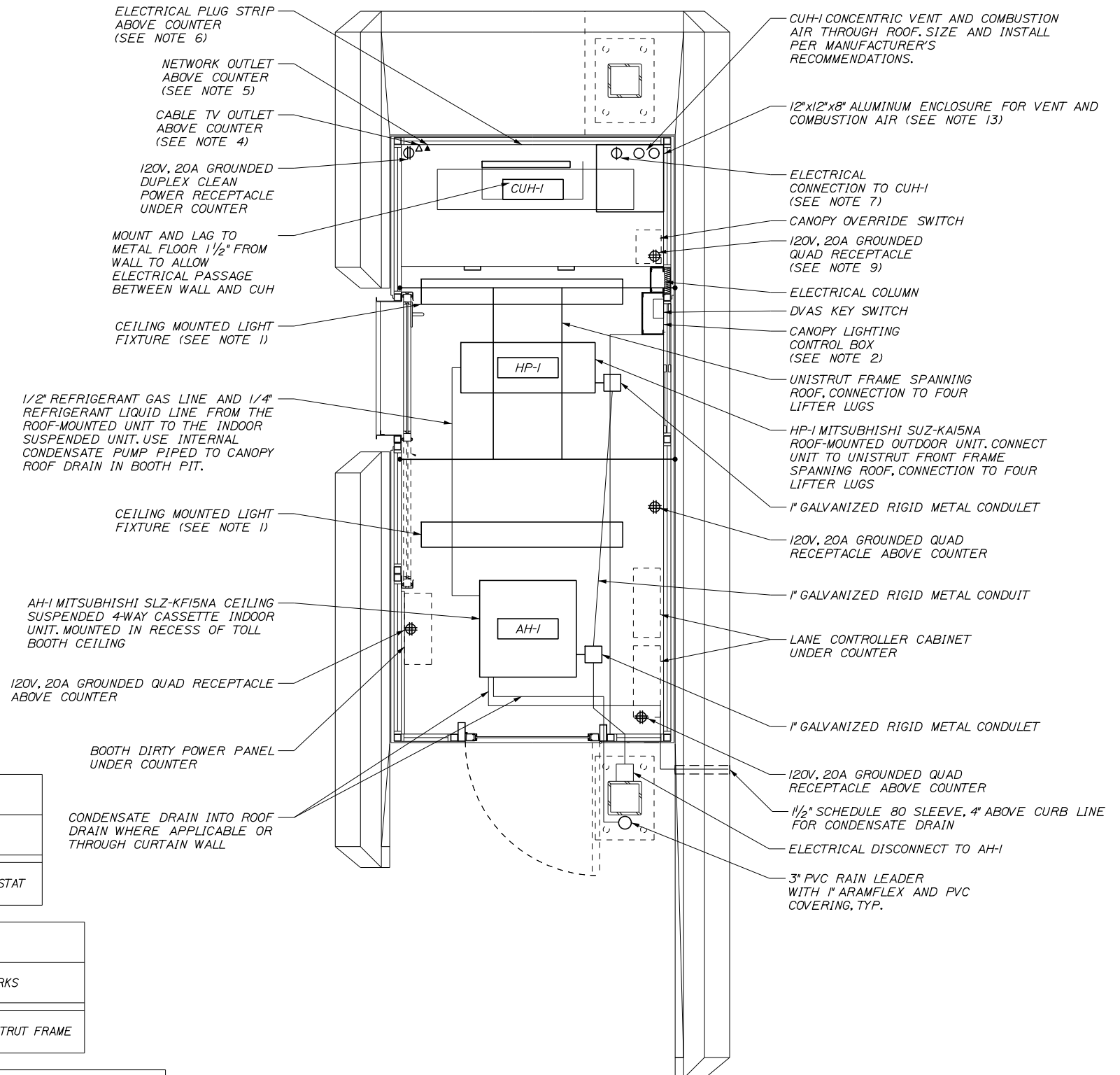
Filename: 00X_Cash Lane Network Wiring Schedule.dgn

Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION TOLL PLAZA CASH LANE NETWORK WIRING SCHEDULE	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		CONTRACT: 2021.07 SHEET NUMBER: TSP-10 361 OF 431	
				Designed	RBM	09\20	Checked	RBM	09\20
				Drawn	WWL	09\20	In Charge of	RAL	09\20

Date: 1/14/2021

NOTES:

- PROVIDE NEW CEILING MOUNTED LIGHT FIXTURES IN PROPOSED BOOTHS. LIGHTS SHALL BE CREE *SMK-LE-S-SMK-LE-EC/CR-LE-32L-35K-10V, OR APPROVED EQUAL.
- AT THE PROPOSED BOOTHS, CANOPY LIGHTING CONTROL SWITCHES TO BE INSTALLED ADJACENT TO THE ELECTRICAL COLUMN.
- IN THE PROPOSED BOOTHS, PROVIDE A 0-10 VOLT DIMMER WIRED TO THE CEILING LIGHTS. WIRE THE BOOTH LIGHTS TO A 20A/1P BREAKER IN THE RESPECTIVE DIRTY POWER PANEL.
- PROVIDE A COAX OUTLET WITH RG6 CABLE FROM THE BOOTH THROUGH THE DUCT BANK TO THE TELEPHONE BOARD IN THE PLAZA BUILDING.
- PROVIDE 2 CAT5e NETWORK JACKS WITH CAT5e CABLE EXTENDED THROUGH THE UTILITY CHASE TO THE TELEPHONE BOARD IN THE PLAZA BUILDING.
- PROVIDE PLUG-STRIP ABOVE THE BOOTH COUNTER. PLUG STRIP SHALL BE LEGRAND *2000 USB SERIES. PLUG STRIP SHALL HAVE A DUPLEX USB JACK AT ONE END AND FOUR 15A, GROUNDED ELECTRICAL OUTLETS SPACED ALONG THE REMAINING LENGTH. WIRE THE PLUG STRIP TO A 20A/1P BREAKER IN THE RESPECTIVE DIRTY POWER PANEL.
- VERIFY EXACT LOCATION OF ELECTRICAL CONNECTION POINT FOR CUH-I. WIRE CUH-I TO A 15A/1P BREAKER IN THE RESPECTIVE DIRTY POWER PANEL.
- PROVIDE 240V-20A/1P WEATHERPROOF DISCONNECT SWITCH AT THE ROOF-TOP HP-I. WIRE HP-I TO A 20A/1P BREAKER IN THE RESPECTIVE DIRTY POWER PANEL.
- PROVIDE A 120V, 20A QUAD RECEPTACLE TO BE INSTALLED IN THE ELECTRICAL COLUMN 30" ABOVE THE FLOOR. CONNECT THE RECEPTACLE TO A 20A/1P BREAKER IN THE RESPECTIVE DIRTY POWER PANEL.
- PROVIDE A 120V, 20A DUPLEX CLEAN POWER RECEPTACLE TO BE INSTALLED BELOW THE COUNTER. THE RECEPTACLES SHALL BE FOR RECEIPT PRINTER AND MLT ONLY.
- INSTALL 1/2" (SIZE 18 EHD) CORRUGATED STAINLESS STEEL TUBING TO EACH CABINET UNIT HEATER (CUH-I) LOCATED IN THE TOLL BOOTHS FROM THE 16"X16"X8" JUNCTION BOX IN THE CONCRETE BOOTH BUMPER BLOCK. A SECONDARY REGULATOR SHALL BE INSTALLED IN THE CONCRETE BOOTH BUMPER BLOCK JUNCTION BOX. INSTALLATION OF THE 1/2" CORRUGATED STAINLESS STEEL TUBING FROM THE SECONDARY REGULATOR TO CUH-I AND THE SECONDARY REGULATOR SHALL BE INCIDENTAL.
- AT THE CABINET UNIT HEATERS, PROVIDE A UL LISTED GAS COCK SHUT OFF VALVE AND A DRIP LEG. PAYMENT WILL BE INCIDENTAL TO THE BOOTH INSTALLATION ITEM 800.40.
- CONTRACTOR SHALL PROVIDE AN ALUMINUM ENCLOSURE FOR VENT AND COMBUSTION AIR FOR CUH-I.
- CAULKING AND ETERNABOND EPDM TAPE SHALL BE INSTALLED ALONG THE ROOF MOUNTED ALUMINUM BOXED (VENT AND AH-I).
- THE ROOF IS NOT DESIGNED FOR POINT LOADS. THE CONTRACTOR SHALL NOT PLACE EQUIPMENT OR WORKERS ON THE ROOF. ACCESS SHALL BE PLANNED ACCORDINGLY.
- HEAT PUMP OUTDOOR UNIT SHALL HAVE A SALT RESISTANT COATING.
- PROVIDE A 3 PHASE 100 AMP BOOTH SUB-PANEL FED FROM BUILDING DP-I. BOOTH PANEL SCHEDULES ARE LOCATED IN THE SPECIAL PROVISION APPENDICES.



PROPOSED TOLL BOOTH
3/4"=1'-0"

HEAT PUMP INDOOR UNIT SCHEDULE							
TAG	DESIGN MANUFACTURER AND MODEL	CFM	ELECTRIC		REFRIGERANT	WEIGHT (LBS)	REMARKS
			POWER	AMPS			
AH-I	MITSUBISHI SLZ-KF15NA	221 - 365	208/60/1	0.40	410A	37 LBS	4-WAY CEILING CASSETTE WITH WIRED THERMOSTAT

HEAT PUMP OUTDOOR UNIT SCHEDULE										
TAG	DESIGN MANUFACTURER AND MODEL	NOMINAL TONS	COOLING BTUH	HEATING BTUH **	ELECTRIC			REFRIGERANT	WEIGHT (LBS)	REMARKS
					POWER	MCA	MOP			
HP-I	MITSUBISHI SUZ-KAI5NA2	1.25	14,100	18,000	208/60/1	10	15	410A	88 LBS	MOUNT ON UNISTRUT FRAME

CABINET UNIT HEATER SCHEDULE								
TAG	DESIGN MANUFACTURER AND MODEL	BTUH INPUT	BTUH OUTPUT	AFUE	FUEL	WATTS	POWER	REMARKS
CUH-I	RINNAI EX38CT	13,200 - 36,500	10,560 - 29,200	80%	LP GAS.	117	120/60/1	DIRECT VENT WALL FURNACE WITH WIRED THERMOSTAT

Filename: 00X_SB_ElectricalMechanicalBooth_Details.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	RBM	09\20	Checked	RBM	09\20
Drawn	WWL	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

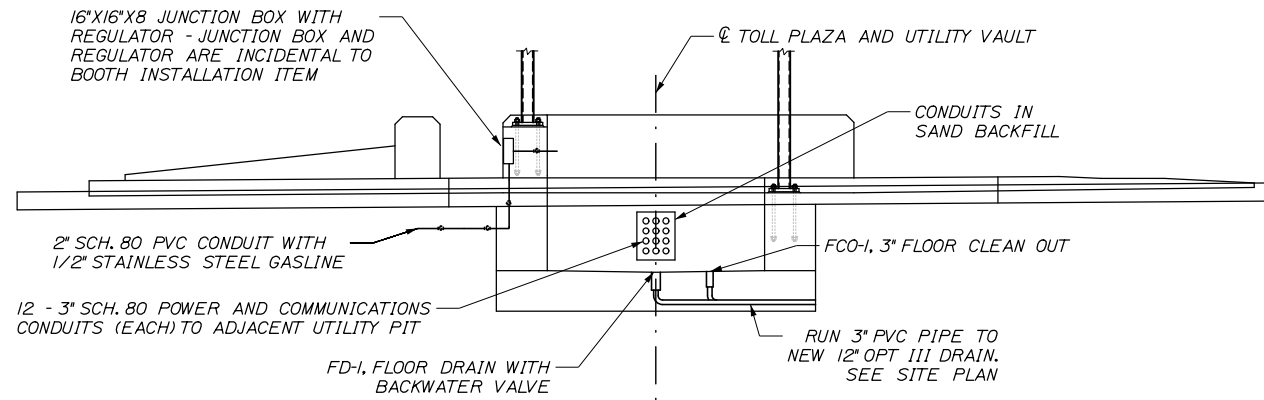
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
TOLL PLAZA
ELECTRICAL & MECHANICAL BOOTH DETAILS
SHEET NUMBER: TSP-11

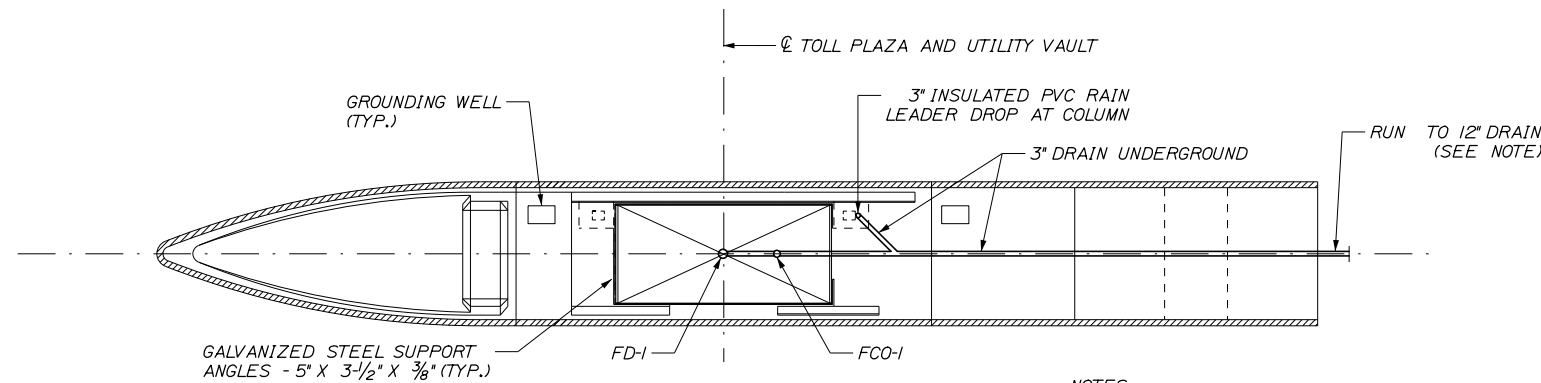
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Date: 1/14/2021

Filename: 168_SB Canopy and Booth Electric-Mech Details.dgn

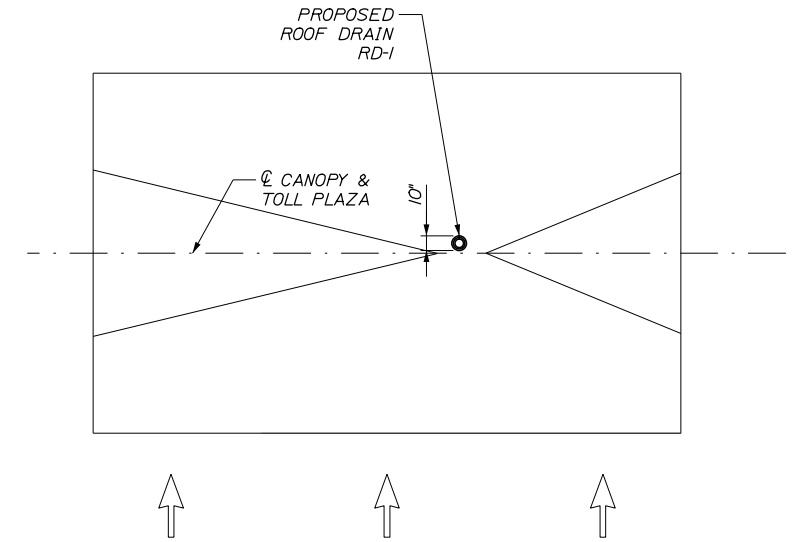


ISLAND ELEVATION
3/16" = 1'-0"

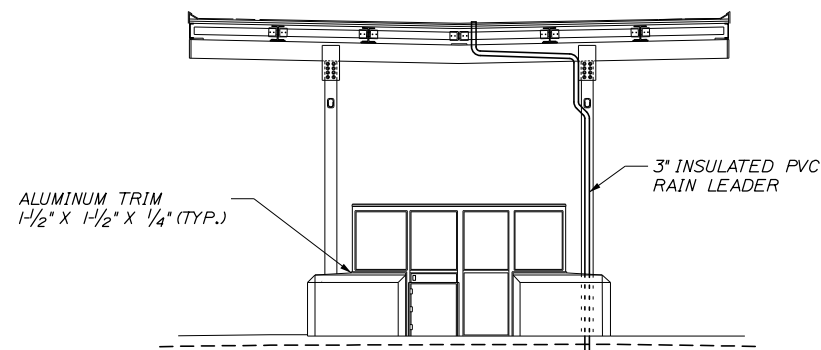


ISLAND PLAN
3/16" = 1'-0"

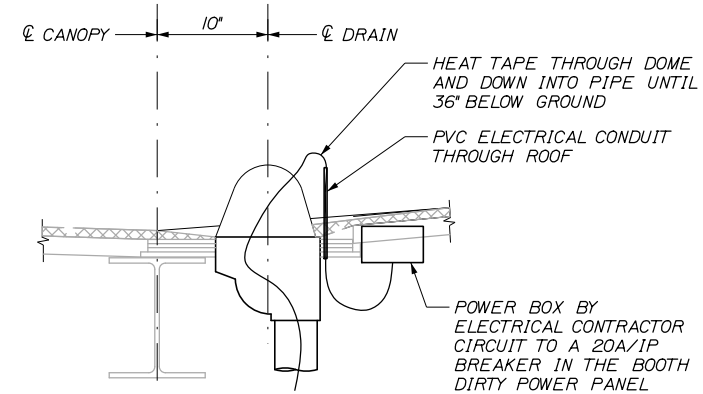
- NOTES:
1. CONNECT 3" PVC PIT DRAIN TO 12" OPT III STORM DRAIN WITH HDPE WYE FITTINGS (SOIL TIGHT).
 2. SB CANOPY DRAIN SHOWN, NB WILL BE PIPED TO THE FRONT OF THE PLAZA.



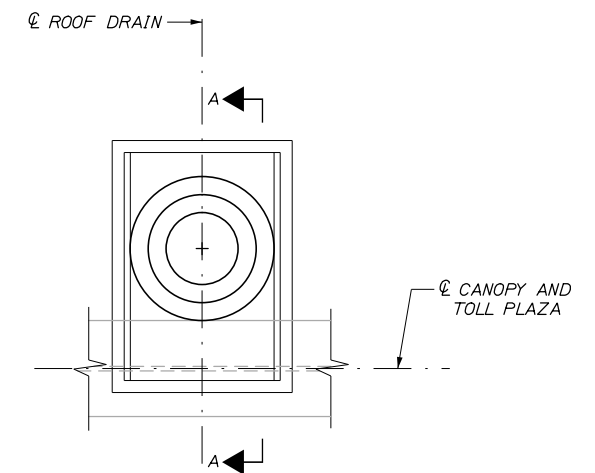
CANOPY ROOF PLAN
1/8" = 1'-0"



BOOTH AND CANOPY ELEVATION
3/16" = 1'-0"



SECTION A - A
NTS



ROOF DRAIN PLAN
NTS

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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
ELECT. & MECH. BOOTH & CANOPY DETAIL

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	RBM 09\20	Checked	RBM 09\20
Drawn	WWL 09\20	In Charge of	RAL 09\20

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.07

SHEET NUMBER: TSP-12
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SPECIFICATIONS

STRUCTURAL SLAB:
 - LOAD AND RESISTANCE FACTOR DESIGN PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.
 - AASHTO BRIDGE DESIGN GUIDE SPECIFICATIONS FOR GFRP-REINFORCED CONCRETE, 2ND EDITION, 2018.

MAST ARMS:
 - AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1ST EDITION, 2015 WITH 2020 INTERIMS.

TOLL CANOPY:
 - AISC MANUAL OF STEEL CONSTRUCTION, LRFD METHOD, 15TH EDITION.
 - ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2016 EDITION.

CONSTRUCTION:
 - STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, NOVEMBER 2014 EDITION.
 - STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, NOVEMBER 2014 EDITION.
 - MAINE TURNPIKE AUTHORITY, SUPPLEMENTAL SPECIFICATIONS, 2016 EDITION

DESIGN LOADING

STRUCTURAL SLAB AND FOUNDATION LIVE LOADHL - 93
 TOLL CANOPY LIVE LOAD 20 PSF
 WIND LOAD - BASIC WIND SPEED (V) 95 MPH
 SNOW/ICE - GROUND SNOW LOAD (Pg)..... 60 PSF

MATERIALS

CONCRETE:
 ENTRY TOLL PLAZA SLABS, EXIT TOLL POINT SLABS, AND APPROACH SLABS. CLASS "AAA DECK"
 ALL OTHER CLASS "AAA"

REINFORCING:
 STEEL BARS ASTM A615, GRADE 60 (EPOXY-COATED)
 WOVEN WIRE FABRIC ASTM A884, CLASS A (EPOXY-COATED)
 GFRP ASLAN 100 (SEE SPECIFICATION)

STRUCTURAL STEEL:
 ALL MATERIAL (EXCEPT AS NOTED) ASTM A709, GRADE 50
 HSS SECTIONS ASTM A500, GRADE C
 H-PILES ASTM A572, GRADE 50
 HIGH STRENGTH BOLTS ASTM F3125, GRADE A325, TYPE 1(HDG)
 ANCHOR RODS ASTM F1554, GRADE 55

BASIC DESIGN STRESSES

CONCRETE:
 CLASS "AAA DECK" f'c = 4,500 PSI
 CLASS "AAA" f'c = 4,500 PSI

REINFORCING:
 REINFORCING STEEL Fy = 60,000 PSI
 GFRP REINFORCING (MIN. TENSILE STRESS) Fu = 90,000 PSI

STRUCTURAL STEEL
 ASTM A709, GRADE 50 Fy = 50,000 PSI
 ASTM A500, GRADE C (ROUND HSS) Fy = 46,000 PSI
 ASTM A500, GRADE C (SQUARE HSS) Fy = 50,000 PSI
 ASTM A572, GRADE 50 Fy = 50,000 PSI
 ASTM F3125, GRADE A325 Fu = 120,000 PSI
 ASTM F1554, GRADE 55 Fy = 55,000 PSI

CONSTRUCTION NOTES:

1. FOR ADDITIONAL DETAILS REFERENCED OR NOT SHOWN IN THESE DRAWINGS, SEE THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, HIGHWAYS AND BRIDGES, NOVEMBER 2014 EDITION.
2. REINFORCING SHALL HAVE CLEAR COVER AS FOLLOWS: 3" FOR CONCRETE PLACED ON GRADE, 3" COVER TO THE TOP OF APPROACH SLABS, 5" COVER TO THE TOP OF ALL ENTRY AND EXIT SLABS, AND 2" ELSEWHERE UNLESS OTHERWISE NOTED.
3. ALL STEEL REINFORCING SHALL BE EPOXY COATED.
4. ALL GFRP REINFORCING SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 503, REINFORCING STEEL, GFRP REINFORCING.
5. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
6. ALL CONCRETE BARRIERS, ISLANDS, BUMPERS AND BOOTH ENCLOSURES SHALL HAVE A RUBBED FINISH PRIOR TO THE APPLICATION OF THE PROTECTIVE COATING FOR CONCRETE SURFACES.
7. CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED TO ALL EXPOSED SURFACES OF THE FOLLOWING CONCRETE COMPONENTS: BARRIERS, BOOTH ENCLOSURES, BUMPERS, AND ISLANDS. PAYMENT SHALL BE MADE UNDER PAY ITEM 515.202, CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES. BROADCAST SEALANT SHALL BE APPLIED TO ENTRY TOLL PLAZA SLABS AND EXIT TOLL POINT SLABS AFTER 60 CALENDAR DAYS OF CONCRETE CURING. PAYMENT SHALL BE MADE UNDER PAY ITEM 515.203, BROADCAST SEALANT FOR CONCRETE SURFACES.
8. WHERE DRILLING AND ANCHORING OF REINFORCING IS SPECIFIED THE FOLLOWING SHALL APPLY:
 - A. FOR REINFORCING STEEL A MATERIAL LISTED ON THE MAINE DOT PREQUALIFIED LIST OF CONCRETE ADHESIVE ANCHOR SYSTEMS SHALL BE USED. THE DEPTH OF EMBEDMENT SHALL BE SUFFICIENT TO DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR, BUT NOT LESS THAN THE MINIMUM DEPTH OF EMBEDMENT WHEN SPECIFIED.
 - B. FOR GFRP REINFORCEMENT A MATERIAL APPROVED BY THE GFRP REINFORCEMENT MANUFACTURER SHALL BE USED. THE DEPTH OF EMBEDMENT SHALL BE SUFFICIENT TO DEVELOP THE FRACTURE STRENGTH OF THE BAR, BUT NOT LESS THAN THE MINIMUM DEPTH OF EMBEDMENT WHEN SPECIFIED.
 - C. WHERE MINIMUM EMBEDMENT DEPTHS ARE NOT PROVIDED, THE REINFORCING SCHEDULE HAS BEEN DEVELOPED BASED ON AN ASSUMED EMBEDMENT OF 12" FOR ALL BAR SIZES. THE CONTRACTOR SHALL VERIFY THE REQUIRED DEPTH OF EMBEDMENT AND ADJUST THE REQUIRED BAR LENGTHS AS NEEDED.
 - D. HOLES FOR DRILLED AND ANCHORED REINFORCING STEEL SHALL BE LOCATED TO PROVIDE A MINIMUM CLEARANCE OF 3" BETWEEN THE DRILLED HOLE AND EDGE OF CONCRETE.
9. ALL STRUCTURAL CONCRETE FOR ENTRY TOLL PLAZA SLABS, EXIT TOLL POINT SLABS, AND APPROACH SLABS SHALL CONTAIN 3 LBS PER CUBIC YARD OF SYNTHETIC FIBER REINFORCEMENT IN ACCORDANCE WITH SPECIAL PROVISION 503, SYNTHETIC FIBER REINFORCEMENT. PAYMENT SHALL BE MADE UNDER PAY ITEM 503.90.
10. AFTER THE CONCRETE SLAB AND ISLANDS HAVE BEEN PLACED AND ALLOWED TO REACH INITIAL SET, THE CONTRACTOR SHALL SAWCUT THE CONCRETE AT THE SPECIFIED LOCATIONS, AND IN ACCORDANCE WITH THE DETAILS PROVIDED. THIS WORK SHALL BE COMPLETED AS SOON AS THE CONCRETE CAN SUPPORT THE WEIGHT OF A WORKER WITHOUT DAMAGE. ALL WORK FOR SAWCUTTING AND FILLING JOINTS SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS.
11. ALL TRANSVERSE SLAB JOINTS SHALL BE CONSTRUCTED OR SAWN PERPENDICULAR TO THE SLAB EDGE RUNNING IN THE DIRECTION OF TRAFFIC.
12. ALL HORIZONTAL CONSTRUCTION JOINTS LOCATED BETWEEN THE ENTERING SLAB AND ISLANDS, ISLANDS AND BUMPERS, AND ISLANDS AND BOOTH ENCLOSURES, SHALL RECEIVE A RAKED FINISH WITH MINIMUM SURFACE PROFILE OF 1/4". ALL OTHER CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAINE DOT STANDARD DETAIL 502(01). WATERSTOPS SHALL ONLY BE REQUIRED WHERE SHOWN ON THE PLANS.
13. WHERE NON-SHRINK GROUT IS SPECIFIED FOR GRANITE CURB BEDDING AND POINTING, OR AT STEEL BASE PLATE LOCATIONS, THE CONTRACTOR SHALL SELECT A PRODUCT FROM MAINE DOT'S QUALIFIED PRODUCTS LIST OF GROUT MATERIALS. THE SELECTED MATERIAL SHALL BE NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI. PAYMENT SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS. SEE SHEET TP-22 FOR DETAIL.
14. WHERE NON-SHRINK GROUT IS SPECIFIED AT THE JOINTS OF ISLAND GRANITE CURB THE AREA SHALL BE GROUTED USING SIKAGROUT 212, MANUFACTURED BY SIKA CORPORATION. THE GROUT SHALL BE PROPORTIONED AND MIXED TO PROVIDE A PLASTIC CONSISTENCY FOR PLACEMENT, AND SHALL BE PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SEE SHEET TP-22 FOR DETAIL.
15. WHERE SELF-LEVELING OR NON-SAG ELASTOMERIC SEALANT IS SPECIFIED THE CONTRACTOR SHALL SELECT SILICONE JOINT SEALANTS SUCH AS SIKASIL 728 RCS OR AS APPROVED BY THE RESIDENT. ALL MATERIALS AND LABOR RELATED TO ELASTOMERIC SEALANT SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS.
16. PREMOLDED JOINT FILLER SHALL CONFORM TO ASTM DESIGNATION D1752, TYPE 1 OR ASTM D5249, TYPE 2. PREMOLDED JOINT FILLER SHALL BE A NON-STAINING, NON-BLEEDING TYPE. PRODUCTS SUCH AS 'CERAMAR', MANUFACTURED BY W. R. MEADOWS, OR AN APPROVED EQUAL WILL BE ACCEPTABLE. CORK IS NOT AN ACCEPTABLE JOINT FILLER MATERIAL. PREMOLDED JOINT FILLER SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS.
17. PAYMENT FOR GRANITE CURB AT TOLL ISLANDS SHALL BE MADE UNDER PAY ITEMS 609.13, VERTICAL BRIDGE CURB TYPE I AND 609.14, VERTICAL BRIDGE CURB TYPE I - CIRCULAR.

18. ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS OTHERWISE NOTED. TOLL PLAZA CANOPY SUPPORT STEEL SHALL BE COATED WITH A 3-COAT SYSTEM IN ACCORDANCE WITH SPECIAL PROVISION 506. COATING SHALL BE INCIDENTAL TO RELATED 504 ITEM. TOLL PLAZA CANOPY SUPPORT STEEL DOES NOT REQUIRE HOT DIP GALVANIZING.
19. ALL ANCHOR RODS SHALL BE SWEDGED OR THREADED ON THE EMBEDDED PORTION OF THE ROD.
20. EXCAVATION FROM TOP OF EXISTING GRADE TO THE BOTTOM OF PROPOSED AGGREGATE BASE COURSE - TYPE A BENEATH SLABS (ENTRY TOLL PLAZA SLAB, EXIT TOLL POINT SLAB OR APPROACH SLAB) SHALL BE MEASURED FOR PAYMENT UNDER PAY ITEM 203.20, COMMON EXCAVATION. EXCAVATION BELOW THIS LAYER REQUIRED FOR PILE CAP, UTILITY VAULT, AND MAST ARM FOUNDATION CONSTRUCTION SHALL BE MEASURED FOR PAYMENT UNDER PAY ITEM 206.082, STRUCTURAL EXCAVATION MAJOR STRUCTURES, PLAN QUANTITY. PAY LIMITS SHALL BE AS SHOWN ON THE PLANS.
21. AREAS OF STRUCTURAL EXCAVATION SHALL BE BACKFILLED WITH GRANULAR BORROW UNLESS OTHERWISE NOTED. MEASUREMENT SHALL BE MADE BASED ON THE STRUCTURAL EXCAVATION NEAT LINES. PAYMENT SHALL BE MADE UNDER PAY ITEM 203.25, GRANULAR BORROW.
22. ALL STRUCTURAL CONCRETE FOR ENTRY TOLL PLAZA SLABS, EXIT TOLL POINT SLABS, AND APPROACH SLABS SHALL BE MEASURED FOR PAYMENT UNDER PAY ITEM 502.262, STRUCTURAL CONCRETE, PAVEMENT SLABS.
23. ALL STRUCTURAL CONCRETE FOR PILE CAPS SHALL BE MEASURED FOR PAYMENT UNDER PAY ITEM 502.261, STRUCTURAL CONCRETE, PILE CAPS.
24. ALL STRUCTURAL CONCRETE FOR TOLL ISLANDS, BUMPERS, BOOTH ENCLOSURES AND CAST-IN-PLACE BARRIER SHALL BE MEASURED FOR PAYMENT UNDER PAY ITEM 502.263, STRUCTURAL CONCRETE PLAZA ISLANDS, BUMPERS AND CURTAIN WALLS.
25. ALL UTILITY PIT BOTTOM SLABS, LONGITUDINAL SIDEWALLS, AND TRANSVERSE SIDEWALLS BENEATH THE LIMITS OF THE PILE CAPS SHALL BE MEASURED FOR PAYMENT UNDER PAY ITEM 502.265, STRUCTURAL CONCRETE UTILITY PITS.
26. ALL STRUCTURAL CONCRETE FOR THE MAST ARM PEDESTALS AND FOUNDATIONS SHALL BE MEASURED FOR PAYMENT UNDER PAY ITEM 502.266, STRUCTURAL CONCRETE PEDESTALS & FOOTINGS.

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OVERHEAD SIGN STRUCTURE II STATION 1062+50	TP-37
OVERHEAD SIGN STRUCTURE III STATION 1062+50	TP-38

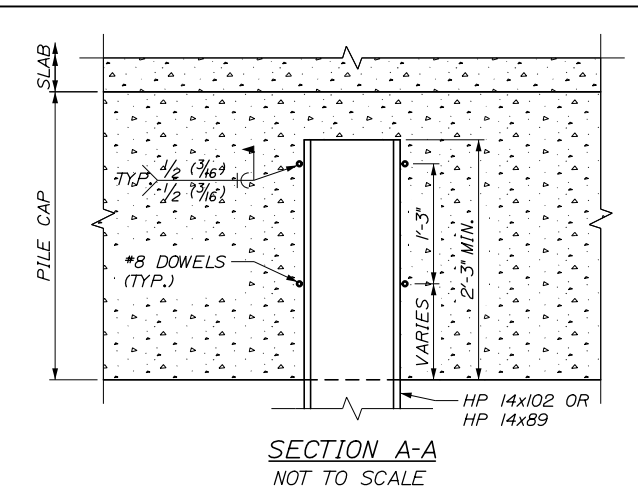
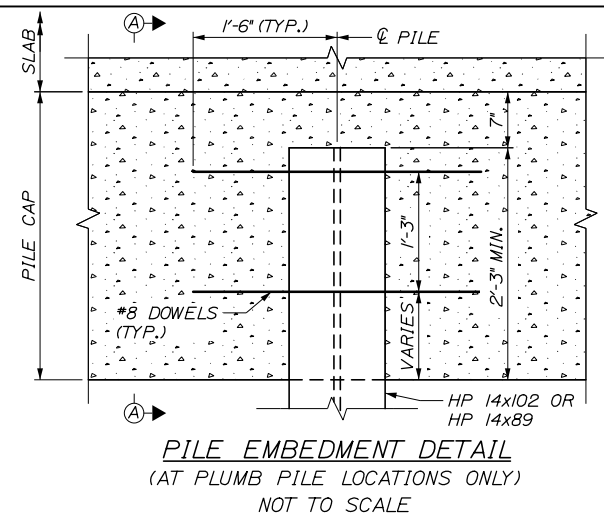
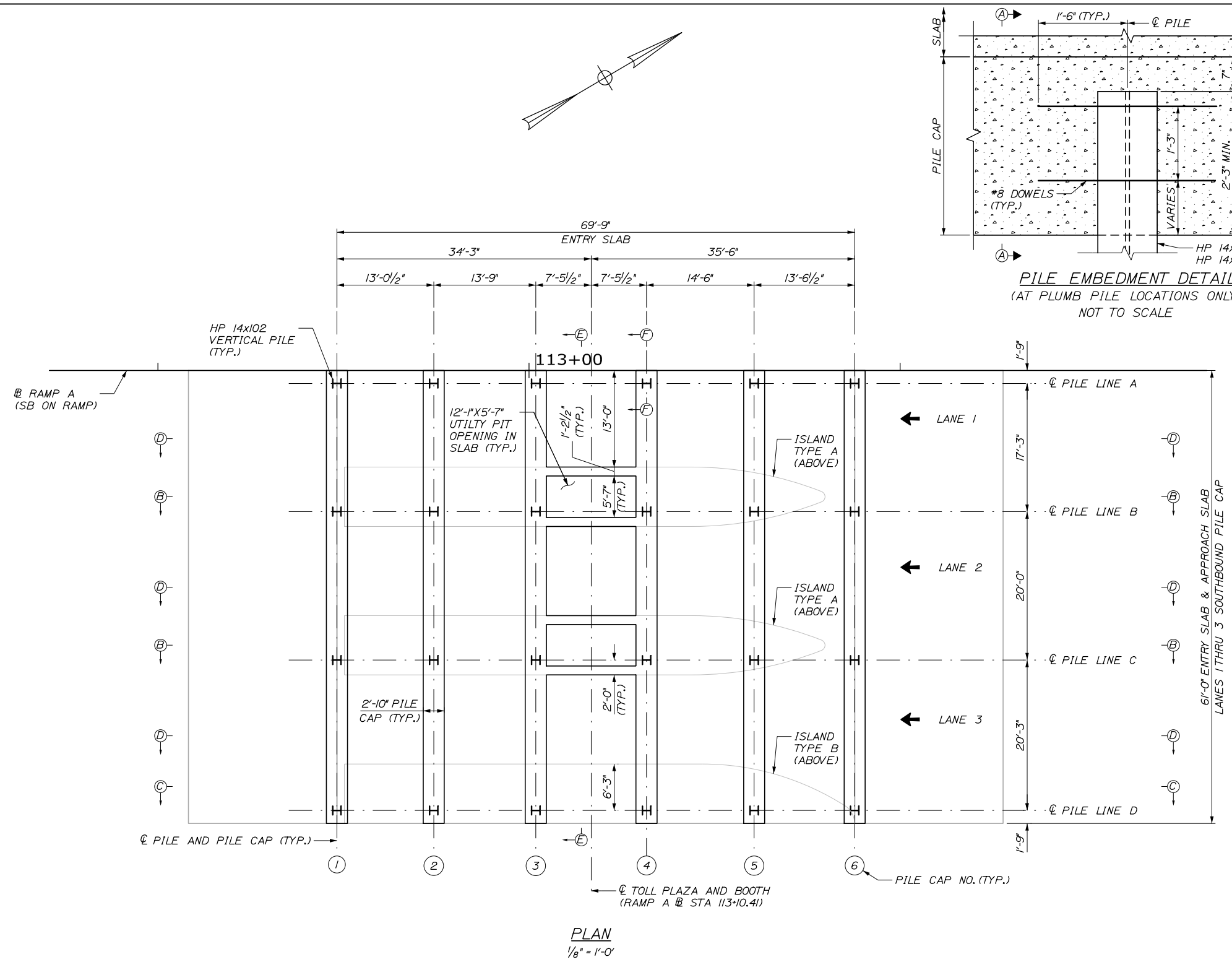
Date: 1/14/2021

Filename: 246_Structural General Notes & Dwg Index.dgn

Scale: AS NOTED		Designed by: HNTB				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY				EXIT 45 INTERCHANGE RECONFIGURATION TOLL PLAZA STRUCTURAL GENERAL NOTES & INDEX OF DRAWINGS SHEET NUMBER: TP-01							
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.																	
				By	Date	By	Date														
				Designed	GLS	09\20	Checked	BRG	09\20												
				Drawn	ERB	09\20	In Charge of	RAL	09\20												
										MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.				CONTRACT: 2021.07				364 OF 431			

Date: 1/14/2021

Filename: 247_SB Entry Foundation Plan.dgn



PILE NOTES:

- PILES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 501, FOUNDATION PILES.
- THE MAXIMUM CALCULATED FACTORED AXIAL PILE LOADS ARE:
 NB TOLL PLAZA SLABS: 553 KIPS (INCLUDING 72 KIPS ALLOWED FOR DOWNDRAG)
 NB EXIT SLABS: 467 KIPS (INCLUDING 112 KIPS ALLOWED FOR DOWNDRAG)
 NB MAST ARM PEDESTAL: 33 KIPS
 SB TOLL PLAZA SLABS: 690 KIPS (INCLUDING 209 KIPS ALLOWED FOR DOWNDRAG)
 SB EXIT SLABS: 430 KIPS (INCLUDING 75 KIPS ALLOWED FOR DOWNDRAG)
 SB MAST ARM PEDESTAL: 35 KIPS
- PILES SHALL BE DRIVEN TO THE FOLLOWING NOMINAL DRIVING RESISTANCES:
 NB TOLL PLAZA SLABS: 851 KIPS
 NB EXIT SLABS AND MAST ARM PEDESTAL: 719 KIPS
 SB TOLL PLAZA SLABS: 1062 KIPS
 SB EXIT SLABS AND MAST ARM PEDESTAL: 662 KIPS
- ESTIMATE OF PILES REQUIRED:
 NB TOLL PLAZA SLABS: 24 ~ HP 14x89 @ 50 FEET (MIN. TIP EL. = 23 FT)
 NB EXIT SLABS: 8 ~ HP 14x89 @ 95 FEET (MIN. TIP EL. = -17 FT)
 NB MAST ARM PEDESTAL: 4 ~ HP 14x89 @ 90 FEET (MIN. TIP EL. = -14 FT)
 SB TOLL PLAZA SLABS: 24 ~ HP 14x102 @ 105 FEET (MIN. TIP EL. = -20 FT)
 SB EXIT SLABS: 8 ~ HP 14x89 @ 83 FEET (MIN. TIP EL. = -11 FT)
 SB MAST ARM PEDESTAL: 4 ~ HP 14x89 @ 78 FEET (MIN. TIP EL. = -9 FT)
- ALL PILES SHALL BE EQUIPPED WITH A PILE TIP IN ACCORDANCE WITH STANDARD SPECIFICATIONS SUBSECTION 501.048, PREFABRICATED PILE TIPS.
- THE CONTRACTOR SHALL PERFORM AND SUBMIT A WAVE EQUATION ANALYSIS FOR REVIEW AND ACCEPTANCE BY THE RESIDENT. THE MAXIMUM ALLOWABLE DRIVING STRESS IS 0.90 TIMES FY. THE SUBMITTAL ANALYSES SHALL INCLUDE THE PROPOSED STOPPING CRITERIA BASED ON THE WAVE EQUATION ANALYSIS AND THE PROPOSED DRIVING SYSTEM. THE STOPPING CRITERIA SHALL INCLUDE THE BLOWS PER INCH AND THE NUMBER OF 1-IN. INTERVALS AT WHICH PILE INSTALLATION MAY BE TERMINATED. THE COST OF PERFORMING THE WAVE EQUATION ANALYSIS WILL BE CONSIDERED INCIDENTAL TO ITEM NO. 501.92, PILE DRIVING EQUIPMENT MOBILIZATION.
- THE CONTRACTOR SHALL PERFORM 4 DYNAMIC LOAD TESTS, ONE AT EACH ENTRY TOLL PLAZA AND EXIT TOLL POINT LOCATION, TO CONFIRM THE NOMINAL DRIVING RESISTANCES INDICATED IN NOTE 3 HAVE BEEN MET. THE DYNAMIC LOAD TESTS SHALL BE PERFORMED ON THE FIRST PRODUCTION PILE DRIVEN AT EACH FOUNDATION. MINIMUM 72 HOUR PILE RESTRIKES SHALL BE CONDUCTED ON ALL TEST PILES IN ORDER TO ENSURE THE REQUIRED NOMINAL RESISTANCE HAS BEEN ACHIEVED AND VERIFY PILE RELAXATION HAS NOT OCCURRED. THE CONTRACTOR MAY DRIVE PRODUCTION PILES TO THE PRELIMINARY DRIVING CRITERIA, HOWEVER PILE CUT-OFF WILL NOT BE PERMITTED UNTIL COMPLETION OF RESTRIKE TESTING AND ESTABLISHMENT OF FINAL DRIVING CRITERIA.
- SPLICING OF PILES SHALL NOT BE PERMITTED WITHIN 30 FEET OF DESIGN PILE CUT-OFF (TOP OF PILE ELEVATION) WITHOUT THE APPROVAL OF THE ENGINEER. WELDING OF PILE SPLICES AND ASSOCIATED NONDESTRUCTIVE TESTING SHALL BE PERFORMED BY PREQUALIFIED WELDERS IN ACCORDANCE WITH THE REQUIREMENTS OF STANDARD SPECIFICATIONS SECTION 504, STRUCTURAL STEEL, AND AMERICAN WELDING SOCIETY (AWS) D1.5 CODE.
- PILES SHALL BE DRIVEN TO AT LEAST THE MINIMUM PILE TIP ELEVATION SPECIFIED IN NOTE 4. CEASE PILE INSTALLATION AND NOTIFY THE RESIDENT IF MINIMUM PILE TIP ELEVATION CANNOT BE REACHED.

GENERAL NOTES:

- FOR SECTIONS B-B, C-C, AND D-D SEE SHEET TP-18.
- FOR SECTIONS E-E AND F-F SEE SHEET TP-19.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	GLS	09\20	Checked	BRG	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
SOUTHBOUND ENTRY TOLL PLAZA FOUNDATION LAYOUT PLAN

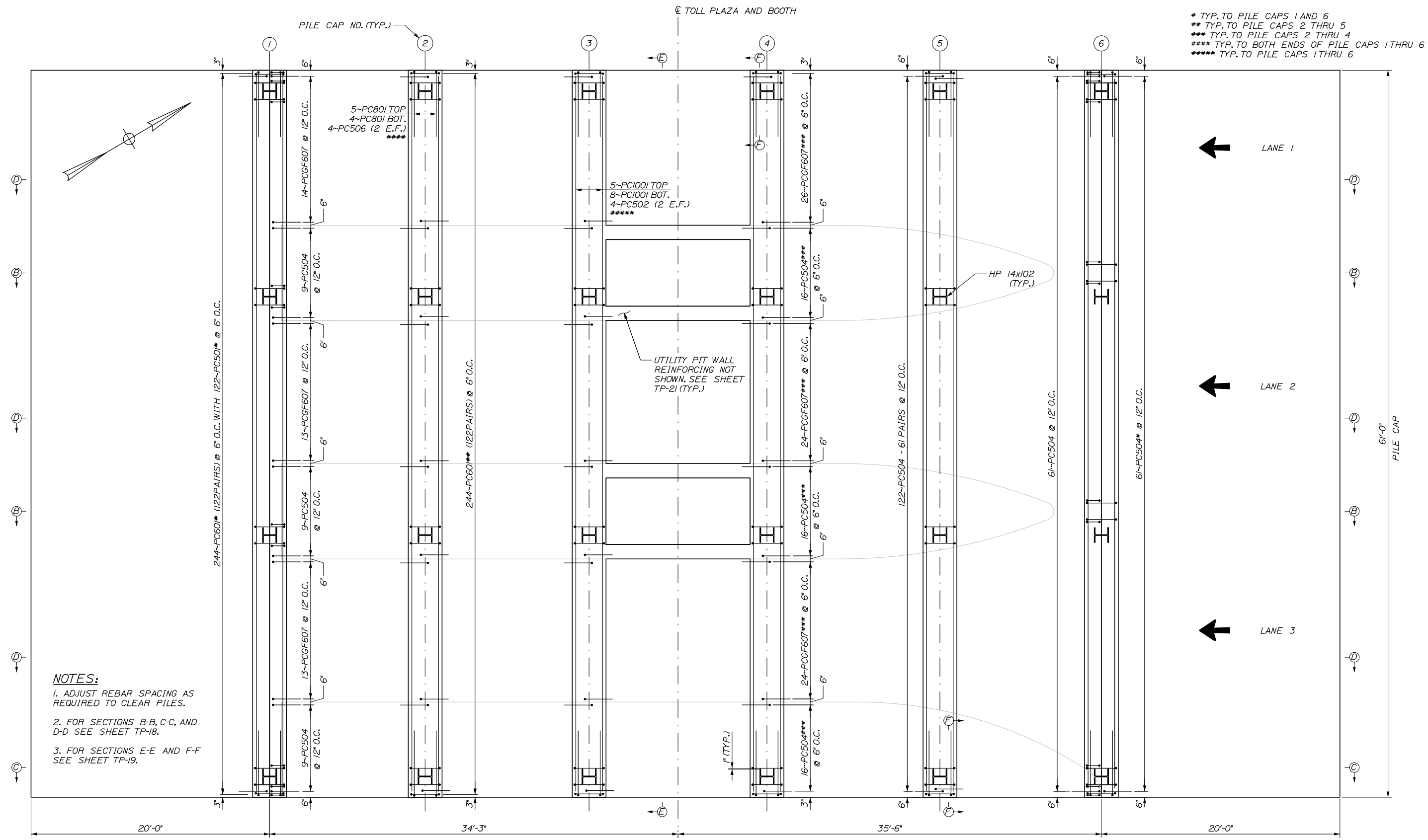
SHEET NUMBER: TP-02

CONTRACT: 2021.07

365 OF 431

Date: 1/14/2021

Filename: 248_SB Entry Foundation Reinforcement Plan.dgn




NOTES:
 1. ADJUST REBAR SPACING AS REQUIRED TO CLEAR PILES.
 2. FOR SECTIONS B-B, C-C, AND D-D SEE SHEET TP-18.
 3. FOR SECTIONS E-E AND F-F SEE SHEET TP-19.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	GLS	09\20	
	Checked	BRG	09\20
	By	Date	
	ERB	09\20	
	In Charge of	RAL	09\20

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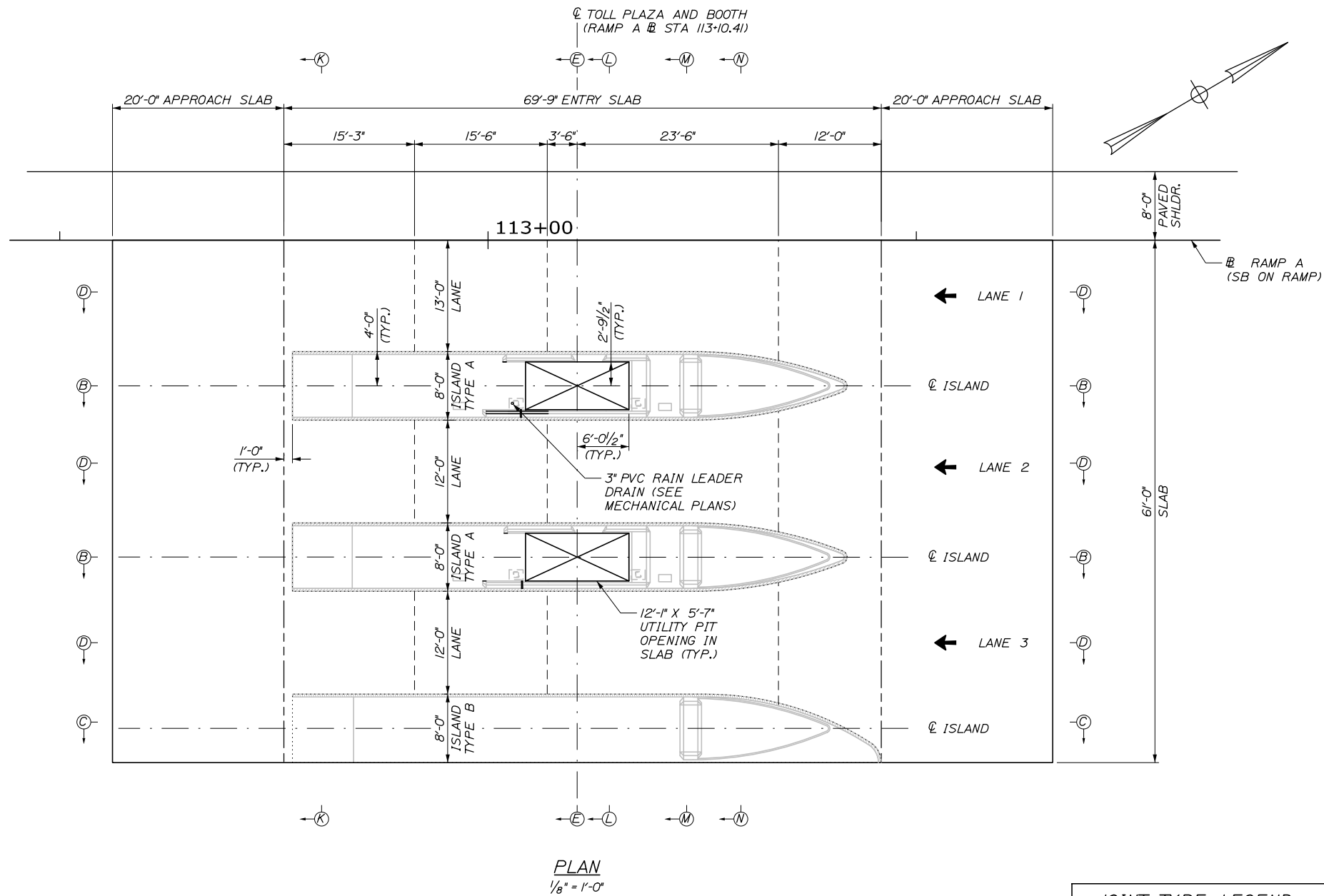
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 SOUTHBOUND ENTRY TOLL PLAZA
 FOUNDATION REINFORCEMENT PLAN

SHEET NUMBER: TP-03
 CONTRACT: 2021.07
 366 OF 431

Date: 1/14/2021



NOTES:

1. FOR SECTIONS B-B, C-C, AND D-D SEE SHEET TP-18.
2. FOR SECTIONS E-E SEE SHEET TP-19.
3. FOR SECTIONS K-K, L-L, M-M, AND N-N SEE SHEET TP-21.
4. FOR SECTIONS O-O, P-P, AND Q-Q SEE SHEET TP-22.
5. FOR REINFORCEMENT SCHEDULE FOR SLABS, SEE SHEET TP-22.

JOINT TYPE LEGEND	
---	SOFT CUT JOINT, (SEE SECTION Q-Q)
.....	CONSTRUCTION JOINT AT ISLAND. (SEE SECTION O-O)
---	EDGE OF SLAB/ CONTRACTION JOINT (SEE SECTION P-P)

Scale: AS NOTED			
No.	Revision	By	Date

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
SOUTHBOUND ENTRY TOLL PLAZA
SLAB LAYOUT PLAN

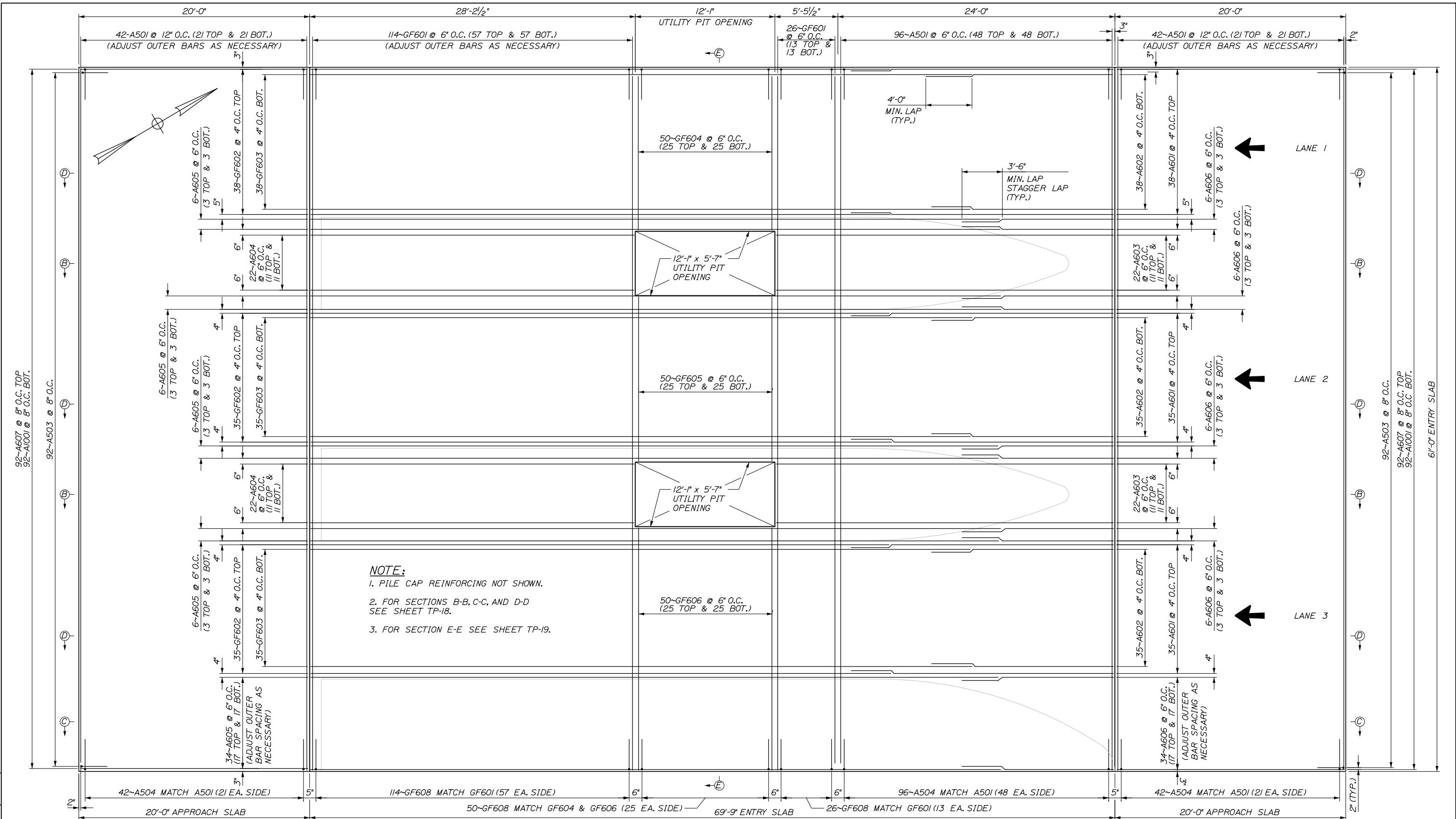
SHEET NUMBER: TP-04

CONTRACT: 2021.07 367 OF 431

Filename: 249_SB Entry Plaza Layout Plan.dgn

Date: 1/14/2021

Filename: 250_SB Entry Plaza Reinforcing Plan.dgn



NOTE:
 1. PILE CAP REINFORCING NOT SHOWN.
 2. FOR SECTIONS B-B, C-C, AND D-D SEE SHEET TP-18.
 3. FOR SECTION E-E SEE SHEET TP-19.

PLAN
 1/4" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	GLS	09\20	Checked	BRG	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

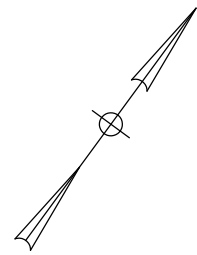
EXIT 45
 INTERCHANGE RECONFIGURATION
 SOUTHBOUND ENTRY TOLL PLAZA
 SLAB REINFORCEMENT PLAN

SHEET NUMBER: TP-05

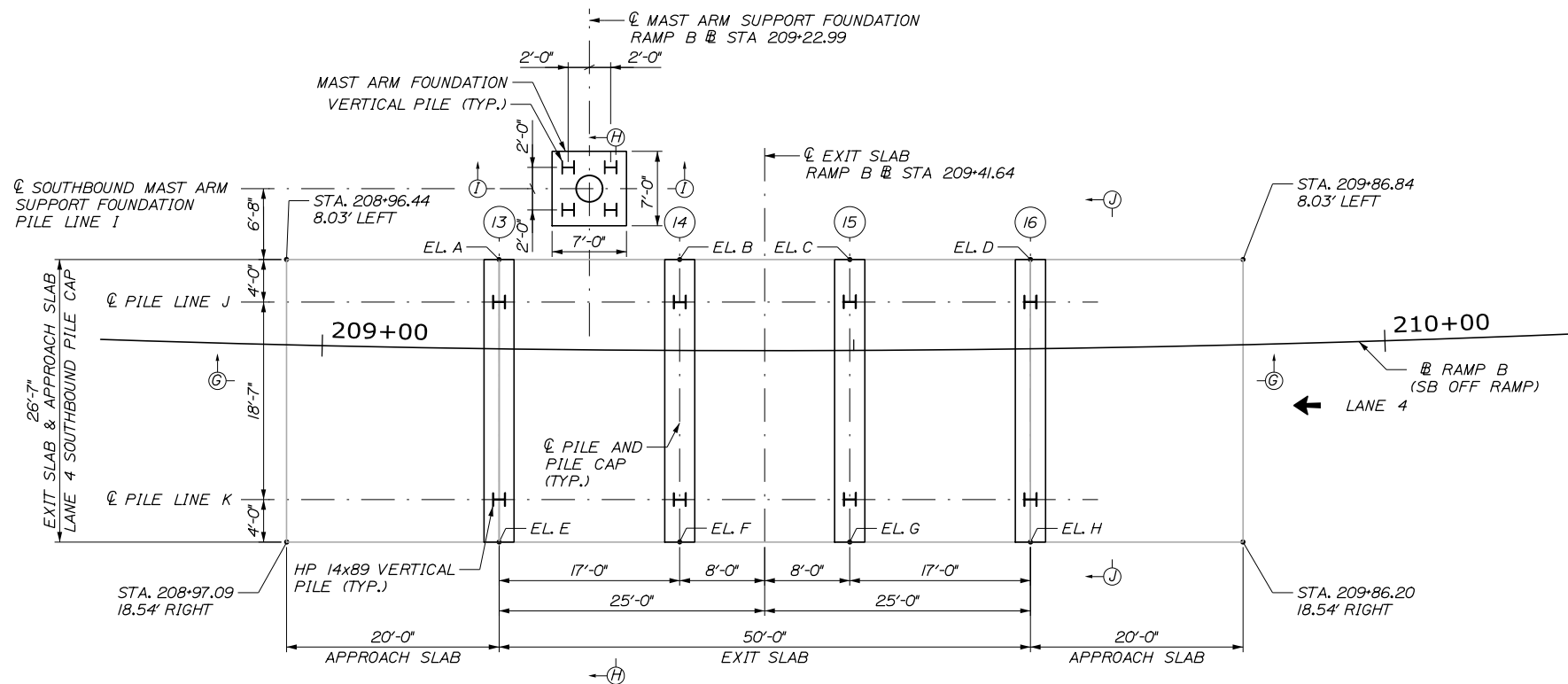
CONTRACT: 2021.07

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Date: 1/14/2021



BOTTOM OF PILE CAP ELEVATIONS	
A	56.97
B	56.78
C	56.63
D	56.50
E	58.03
F	57.84
G	57.69
H	57.57



PLAN
1/8" = 1'-0"

PILE NOTES:

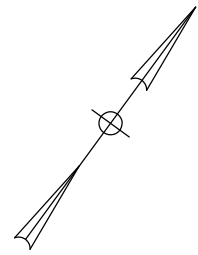
1. SEE SHEET TP-02 FOR NOTES ON H-PILE INSTALLATION, LOADING, TESTING, AND MATERIALS.

GENERAL NOTES:

1. FOR SECTIONS G-G, H-H, I-I, AND J-J SEE SHEET TP-20.

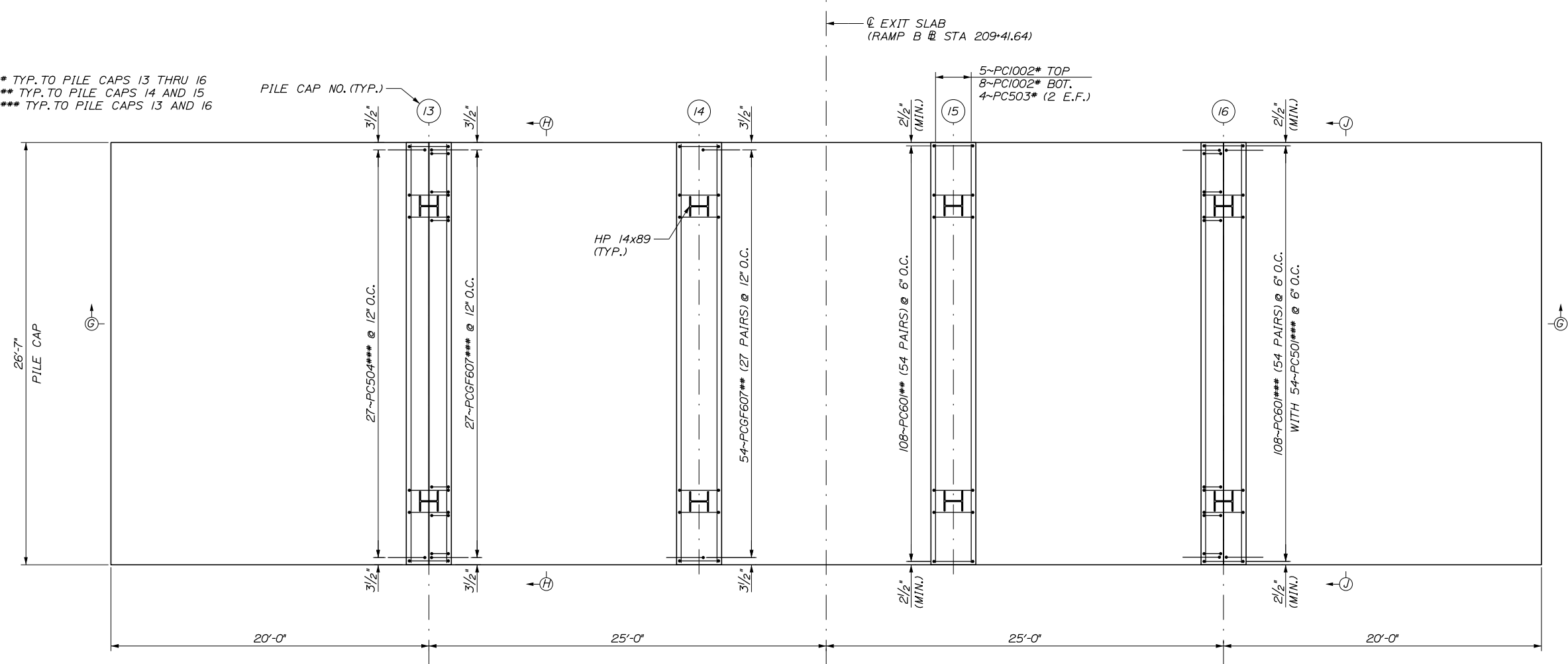
Filename: 251_SB Exit Foundation Plan.dgn

Scale: AS NOTED		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		EXIT 45 INTERCHANGE RECONFIGURATION SOUTHBOUND EXIT TOLL POINT FOUNDATION LAYOUT PLAN																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.		SHEET NUMBER: TP-06 CONTRACT: 2021.07 369 OF 431			
No.	Revision	By	Date																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>GLS</td> <td>09\20</td> <td>Checked</td> <td>BRG</td> <td>09\20</td> </tr> <tr> <td>Drawn</td> <td>ERB</td> <td>09\20</td> <td>In Charge of</td> <td>RAL</td> <td>09\20</td> </tr> </tbody> </table>			By	Date		By	Date	Designed	GLS	09\20	Checked	BRG	09\20	Drawn	ERB	09\20	In Charge of	RAL	09\20	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.		SHEET NUMBER: TP-06 CONTRACT: 2021.07 369 OF 431	
	By	Date		By	Date																				
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Drawn	ERB	09\20	In Charge of	RAL	09\20																				



Date: 1/14/2021

* TYP. TO PILE CAPS 13 THRU 16
 ** TYP. TO PILE CAPS 14 AND 15
 *** TYP. TO PILE CAPS 13 AND 16



PLAN
 1/4" = 1'-0"

NOTES:

- ADJUST REBAR SPACING AS REQUIRED TO CLEAR PILES.
- FOR SECTIONS G-G, H-H, I-I, AND J-J SEE SHEET TP-20.

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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 45
 INTERCHANGE RECONFIGURATION
 SOUTHBOUND EXIT TOLL POINT
 FOUNDATION REINFORCEMENT PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	GLS	09\20	Checked	BRG	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

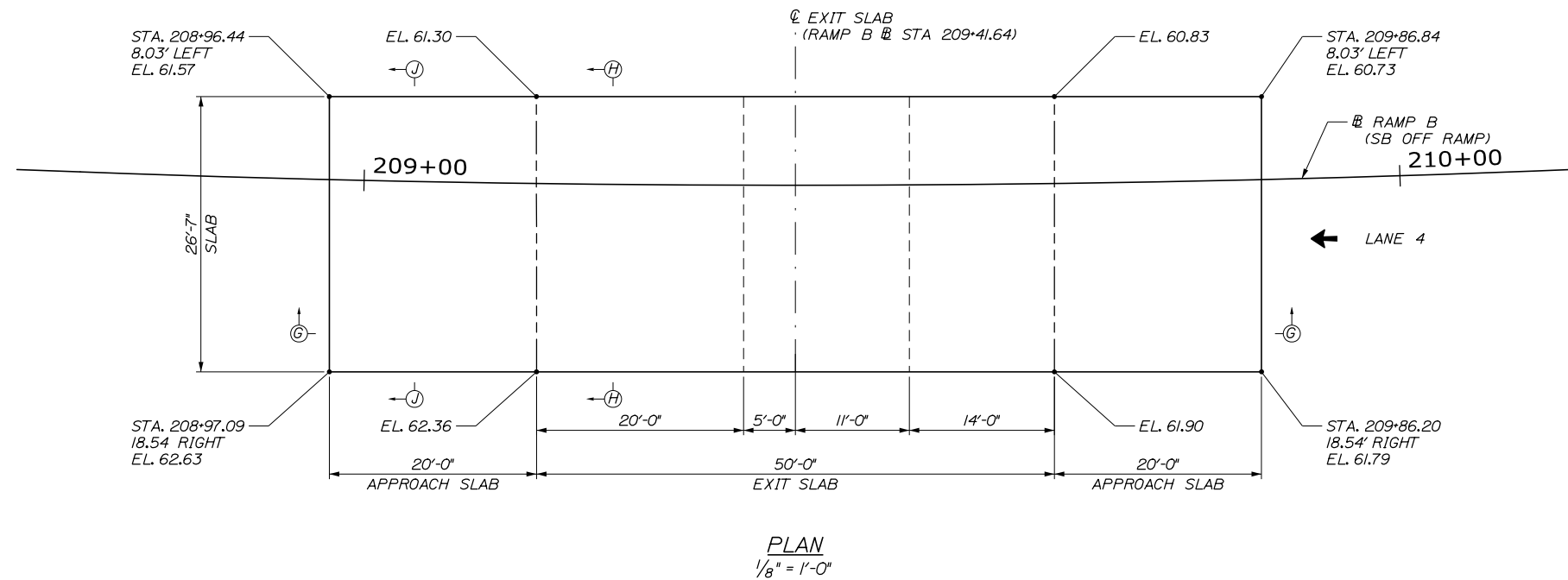
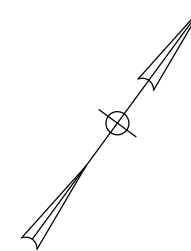
CONTRACT: 2021.07

SHEET NUMBER: TP-07

370 OF 431

Filename: 252_SB Exit Foundation Reinforcement Plan.dgn

Date: 1/14/2021



NOTES:

1. FOR SECTIONS G-G, H-H, AND J-J SEE SHEET TP-20.
2. FOR SECTIONS P-P AND Q-Q SEE SHEET TP-22.
3. FOR REINFORCEMENT SCHEDULE FOR SLABS, SEE SHEET TP-22.
4. ELEVATIONS PROVIDED ARE TOP OF SLAB.

JOINT TYPE LEGEND	
-----	SOFT CUT JOINT, (SEE SECTION Q-Q)
-----	EDGE OF SLAB/ CONTRACTION JOINT (SEE SECTION P-P)

Filename: 253_SB Exit Slab Layout Plan.dgn

Scale:				Designed by:			
AS NOTED				HNTB			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	GLS 09\20	Checked	BRG 09\20
				Drawn	ERB 09\20	In Charge of	RAL 09\20

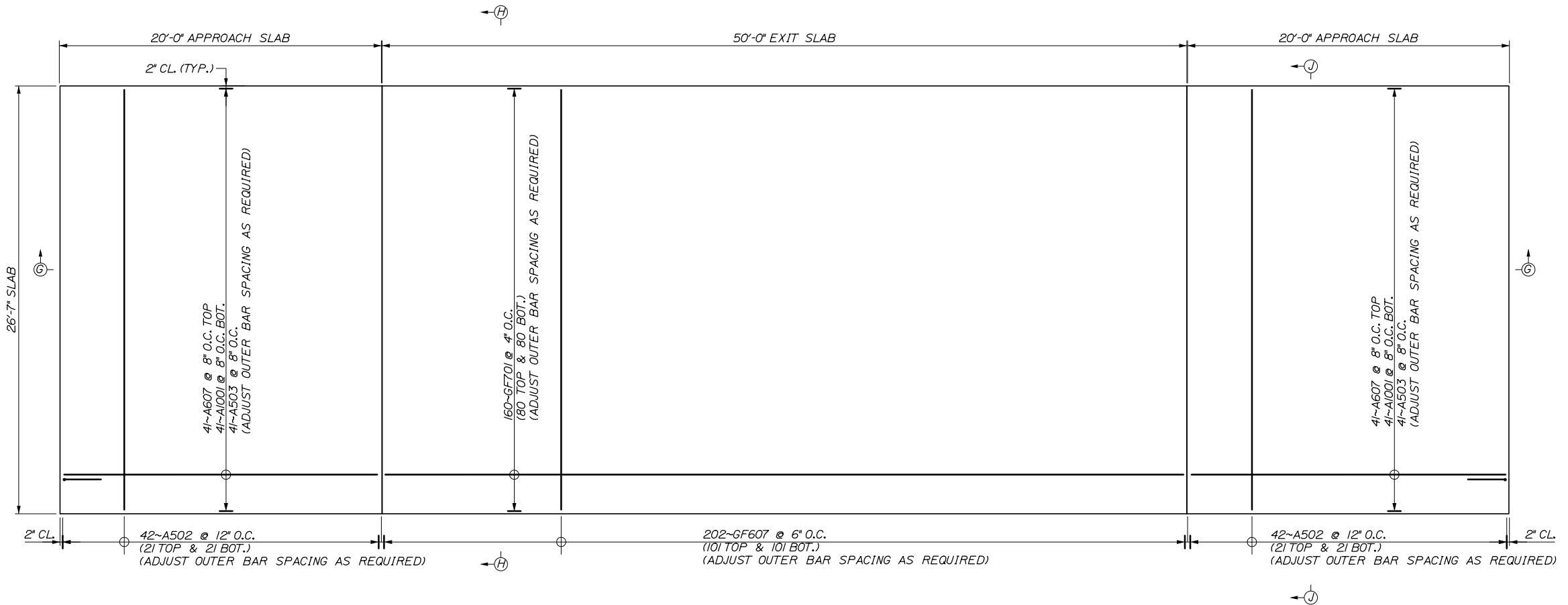
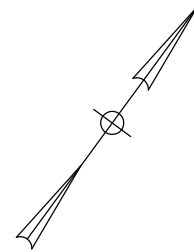
<p>HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909</p>							
<p>THE GOLD STAR MEMORIAL HIGHWAY</p>							
<p>MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.</p>							

<p>EXIT 45 INTERCHANGE RECONFIGURATION SOUTHBOUND EXIT TOLL POINT SLAB LAYOUT PLAN</p>							
<p>SHEET NUMBER: TP-08</p>							
<p>CONTRACT: 2021.07</p>							
<p>371 OF 431</p>							

<p>EXIT 45 INTERCHANGE RECONFIGURATION SOUTHBOUND EXIT TOLL POINT SLAB LAYOUT PLAN</p>							
<p>SHEET NUMBER: TP-08</p>							
<p>CONTRACT: 2021.07</p>							
<p>371 OF 431</p>							

<p>EXIT 45 INTERCHANGE RECONFIGURATION SOUTHBOUND EXIT TOLL POINT SLAB LAYOUT PLAN</p>							
<p>SHEET NUMBER: TP-08</p>							
<p>CONTRACT: 2021.07</p>							
<p>371 OF 431</p>							

Date: 1/14/2021



PLAN
1/4" = 1'-0"

NOTE:

1. PILE CAP REINFORCING NOT SHOWN.
2. FOR SECTIONS G-G, H-H, AND J-J SEE SHEET TP-20.

Filename: 254_SB Exit Slab Reinforcing Plan.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	GLS	09\20	Checked	BRG	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

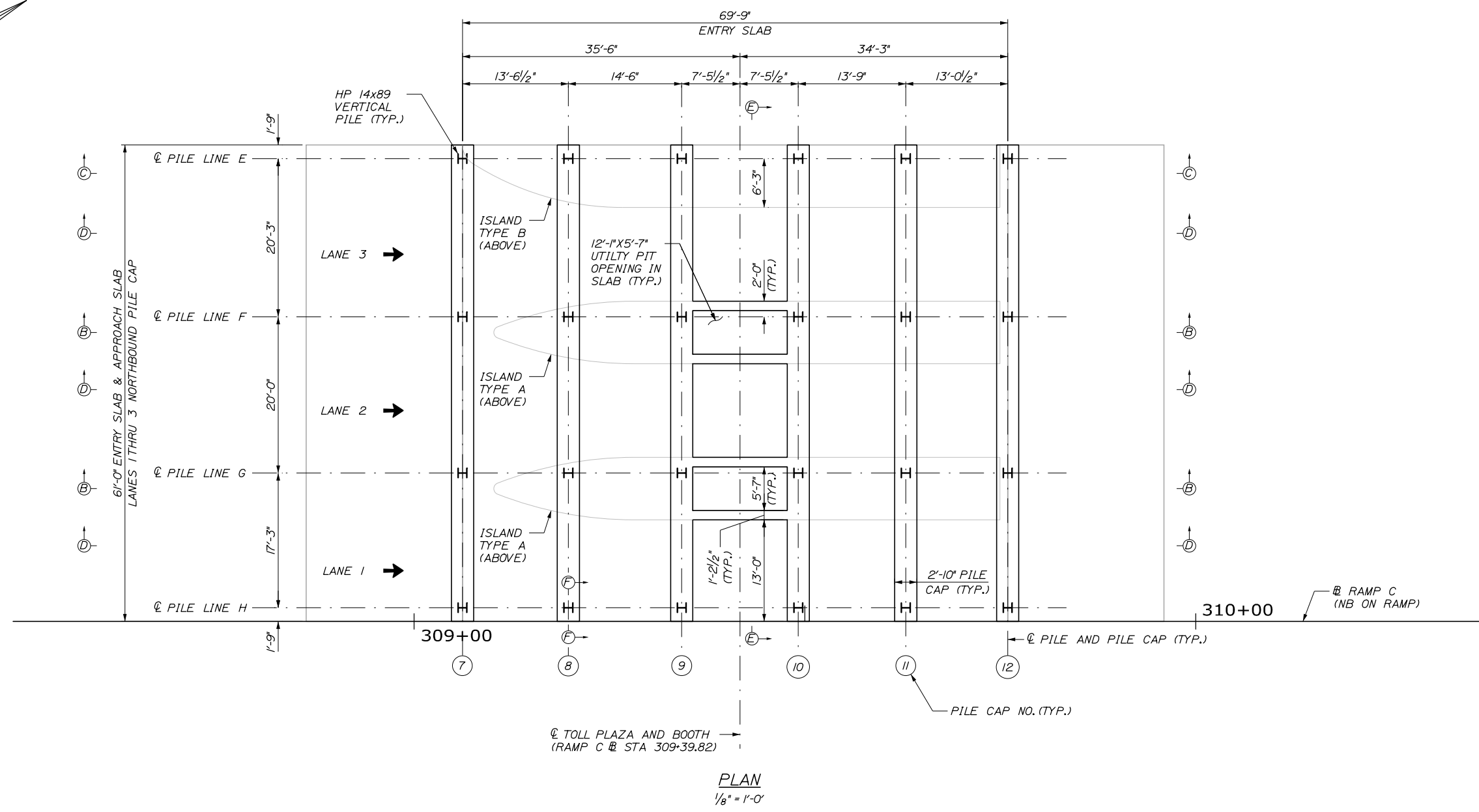
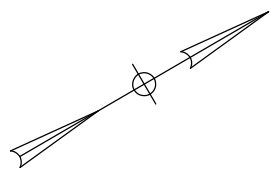
MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
SOUTHBOUND EXIT TOLL POINT
SLAB REINFORCEMENT PLAN

SHEET NUMBER: TP-09

CONTRACT: 2021.07

372 OF 431



PILE NOTES:

1. SEE SHEET TP-02 FOR NOTES ON H-PILE INSTALLATION, LOADING, TESTING, AND MATERIALS.

GENERAL NOTES:

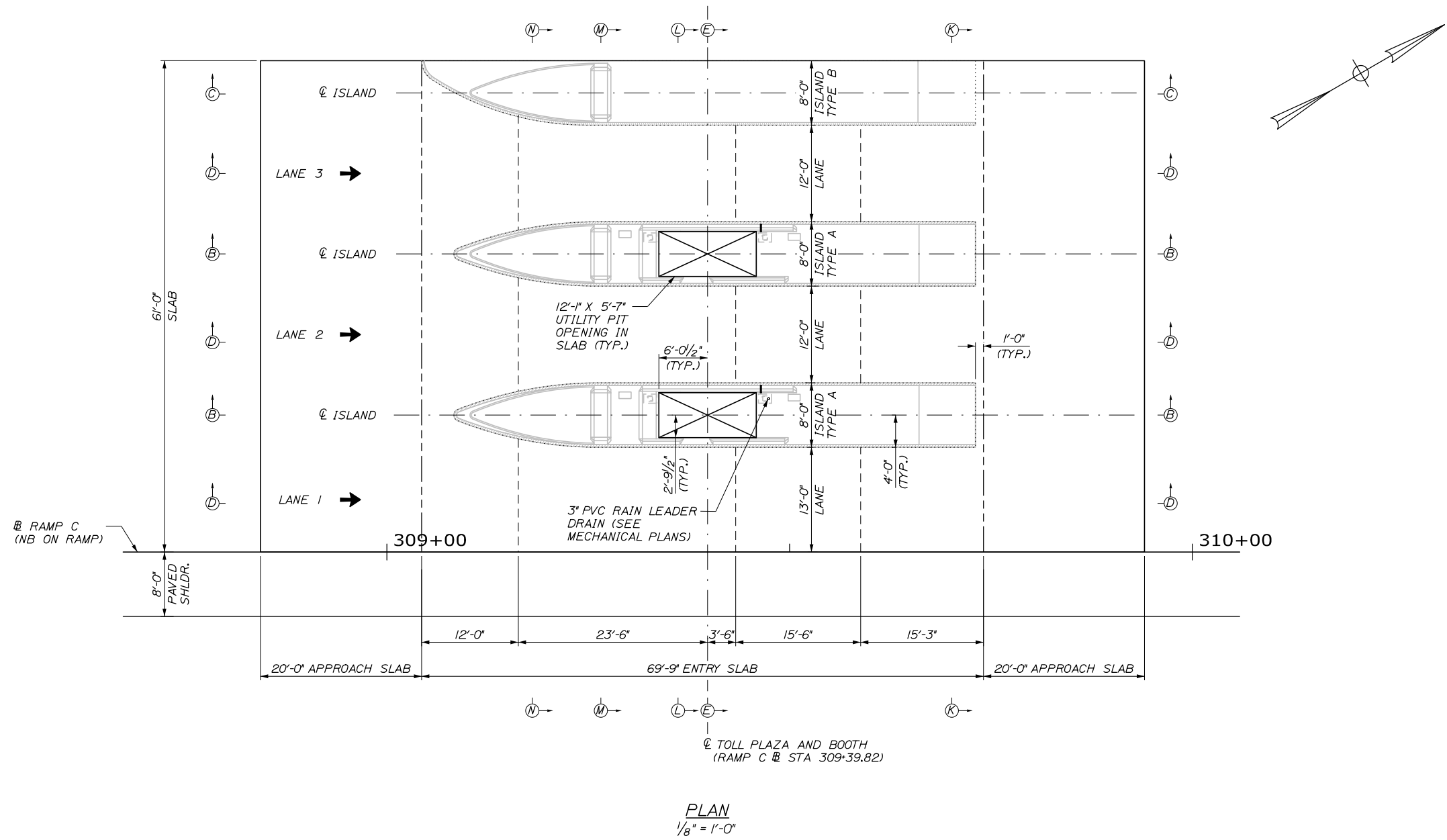
- 1. FOR SECTIONS B-B, C-C, AND D-D SEE SHEET TP-18.
- 2. FOR SECTIONS E-E AND F-F SEE SHEET TP-19.

Date: 1/14/2021

Filename: 255_NB Entry Foundation Plan.dgn

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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 10%;">Revision</th> <th style="width: 5%;">By</th> <th style="width: 5%;">Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.		SHEET NUMBER: TP-10 CONTRACT: 2021.07 373 OF 431	
No.	Revision	By	Date																				
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By	Date	By	Date																				
Designed	GLS 09\20	Checked	BRG 09\20																				
Drawn	ERB 09\20	In Charge of	RAL 09\20																				

Date: 1/14/2021



LAYOUT PLAN

1. FOR SECTIONS B-B, C-C, AND D-D SEE SHEET TP-18.
2. FOR SECTIONS E-E SEE SHEET TP-19.
3. FOR SECTIONS K-K, L-L, M-M, AND N-N SEE SHEET TP-21.
4. FOR SECTIONS O-O, P-P, AND Q-Q SEE SHEET TP-22.
5. FOR REINFORCEMENT SCHEDULE FOR SLABS, SEE SHEET TP-22.

JOINT TYPE LEGEND	
---	SOFT CUT JOINT, (SEE SECTION Q-Q)
.....	CONSTRUCTION JOINT AT ISLAND. (SEE SECTION O-O)
---	EDGE OF SLAB/ CONTRACTION JOINT (SEE SECTION P-P)

Scale: AS NOTED			
No.	Revision	By	Date

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HNTB			
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

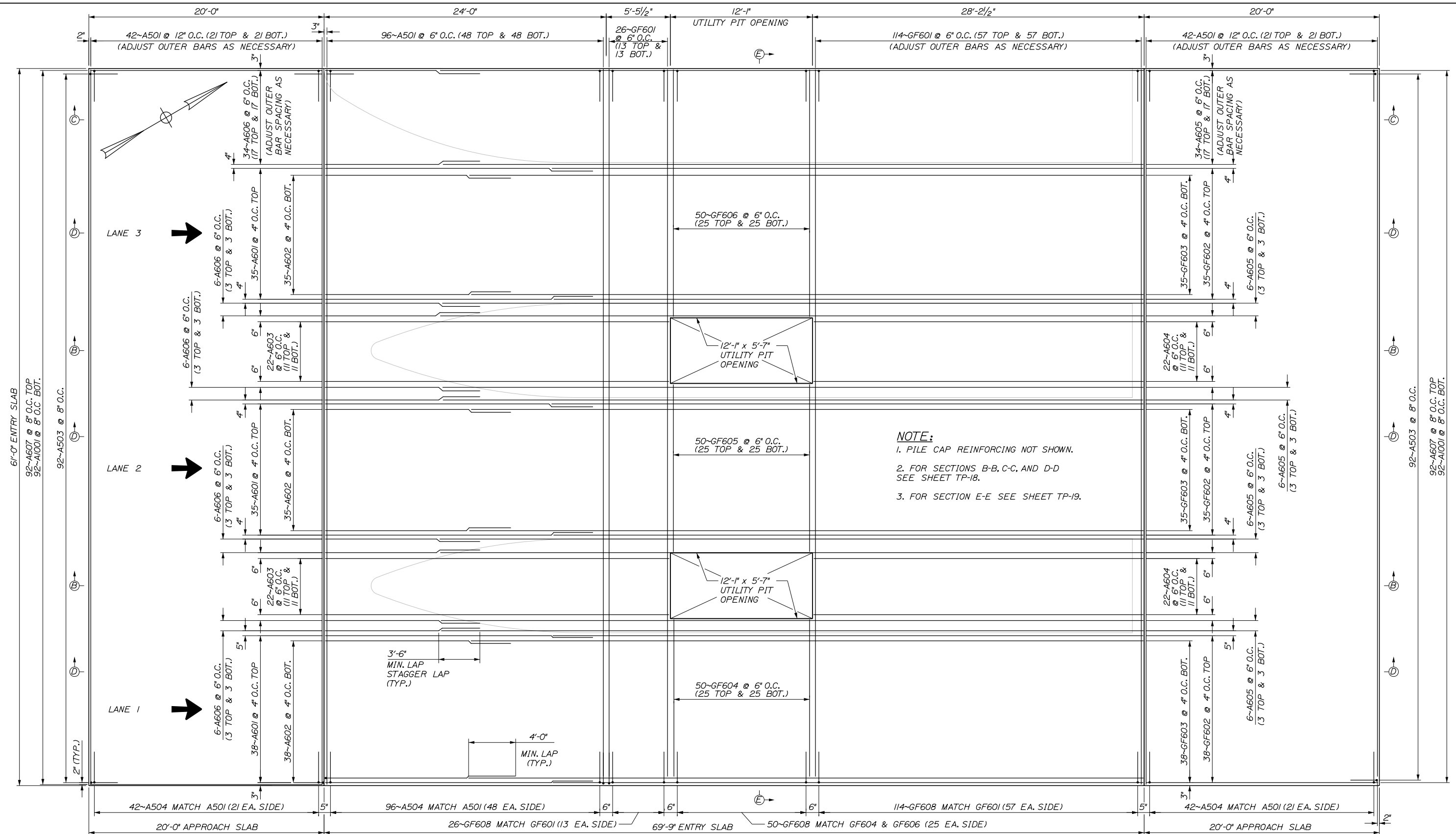
EXIT 45
INTERCHANGE RECONFIGURATION
NORTHBOUND ENTRY TOLL PLAZA
SLAB LAYOUT PLAN

SHEET NUMBER: TP-12
CONTRACT: 2021.07
375 OF 431

Filename: 257_NB_Entry_Plaza_Layout_Plan.dgn

Date: 1/14/2021

Filename: 258_NB Entry Plaza Reinforcing Plan.dgn



PLAN
1/4" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	GLS	09\20	Checked	BRG	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

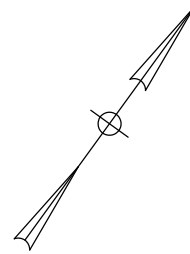
EXIT 45
 INTERCHANGE RECONFIGURATION
 NORTHBOUND ENTRY TOLL PLAZA
 SLAB REINFORCEMENT PLAN

SHEET NUMBER: TP-13

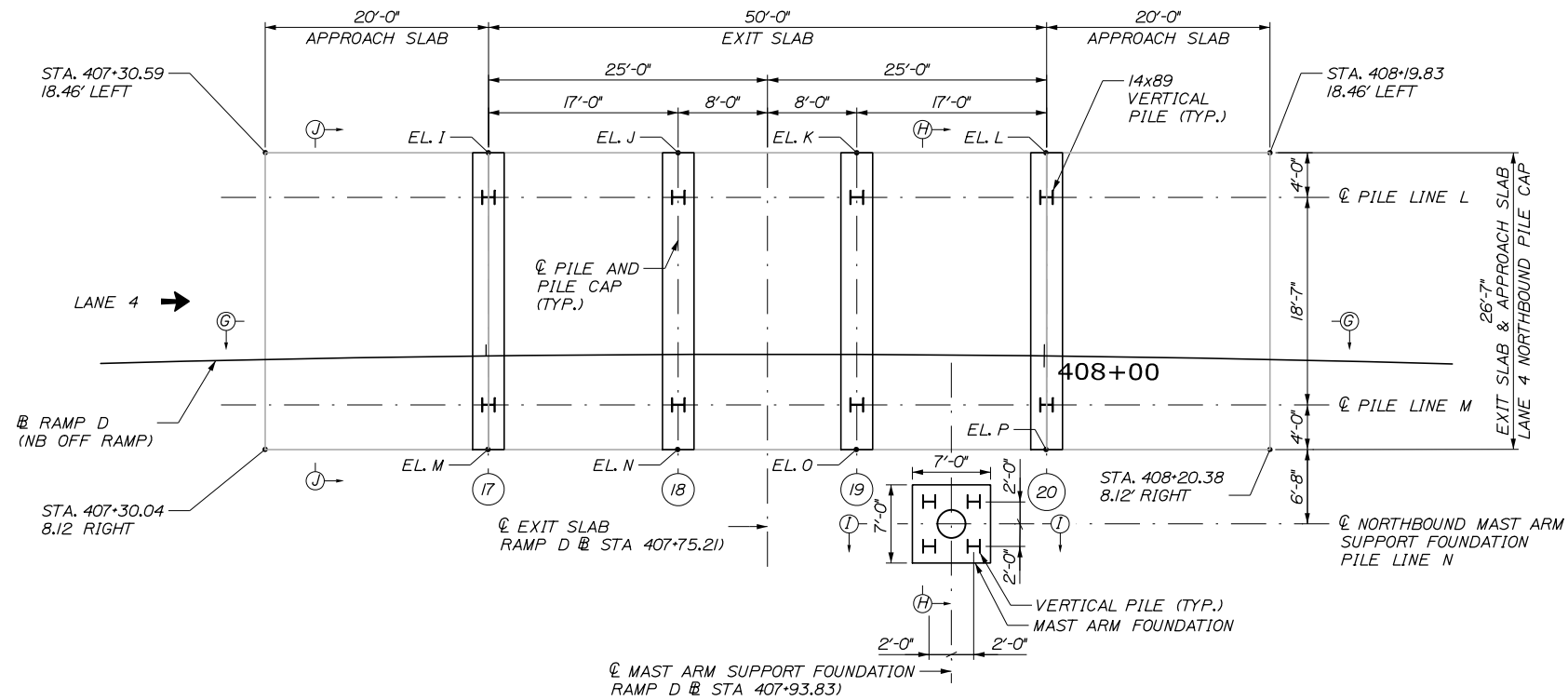
CONTRACT: 2021.07

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Date: 1/14/2021



BOTTOM OF PILE CAP ELEVATIONS	
I	62.21
J	62.41
K	62.63
L	62.89
M	61.20
N	61.40
O	61.62
P	61.88



PLAN
1/8" = 1'-0"

PILE NOTES:

1. SEE SHEET TP-02 FOR NOTES ON H-PILE INSTALLATION, LOADING, TESTING, AND MATERIALS.

GENERAL NOTES:

1. FOR SECTIONS G-G, H-H, I-I, AND J-J SEE SHEET TP-20.

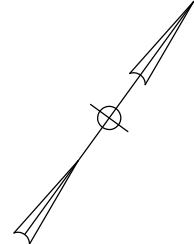
Filename: 259_NB Exit Foundation Plan.dgn

Scale: AS NOTED				Designed by:								HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909								THE GOLD STAR MEMORIAL HIGHWAY				EXIT 45 INTERCHANGE RECONFIGURATION NORTHBOUND EXIT TOLL POINT FOUNDATION LAYOUT PLAN			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.																											
No.	Revision	By	Date	By	Date	By	Date	Designed				Checked				In Charge of				SHEET NUMBER: TP-14							
				GLS	09\20	BRG	09\20	ERB				RAL				CONTRACT: 2021.07											
																377 OF 431											

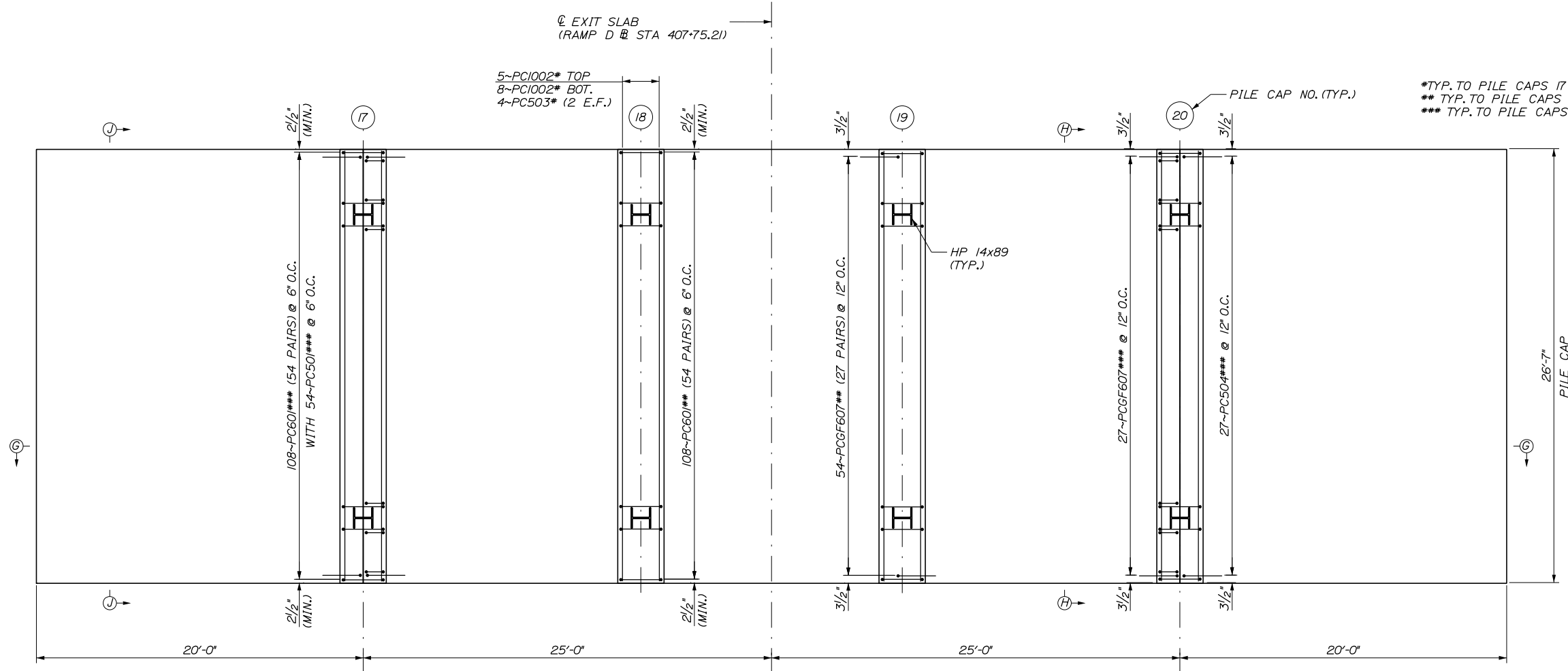
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Date: 1/14/2021

Filename: 260_NB Exit Foundation Reinforcement Plan.dgn



LANE 4 →



*TYP. TO PILE CAPS 17 THRU 20
 ** TYP. TO PILE CAPS 18 AND 19
 *** TYP. TO PILE CAPS 17 AND 20

PLAN
 1/4" = 1'-0"

NOTES:

1. ADJUST REBAR SPACING AS REQUIRED TO CLEAR PILES.
2. FOR SECTIONS G-G, H-H, I-I, AND J-J SEE SHEET TP-20.

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

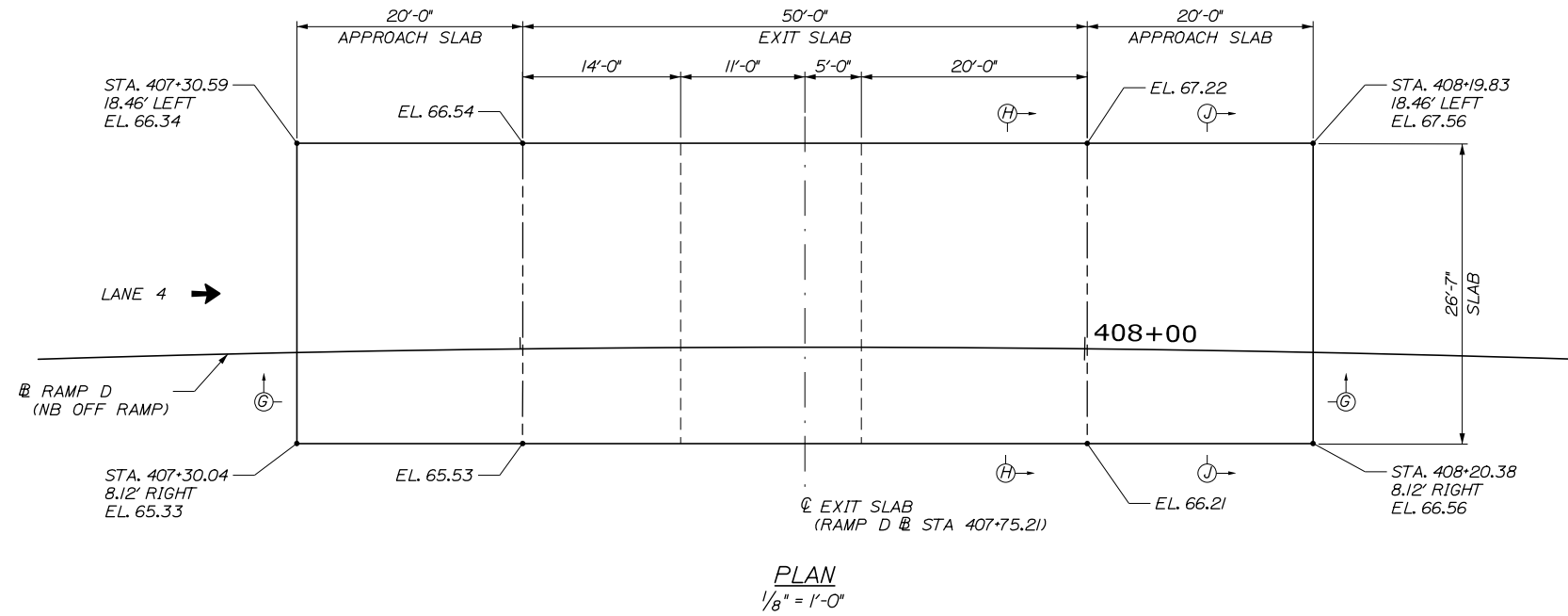
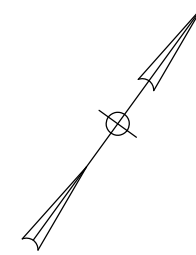
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**EXIT 45
 INTERCHANGE RECONFIGURATION
 NORTHBOUND EXIT TOLL POINT
 FOUNDATION REINFORCEMENT PLAN**

SHEET NUMBER: TP-15

CONTRACT: 2021.07 378 OF 431

Date: 1/14/2021



NOTES:

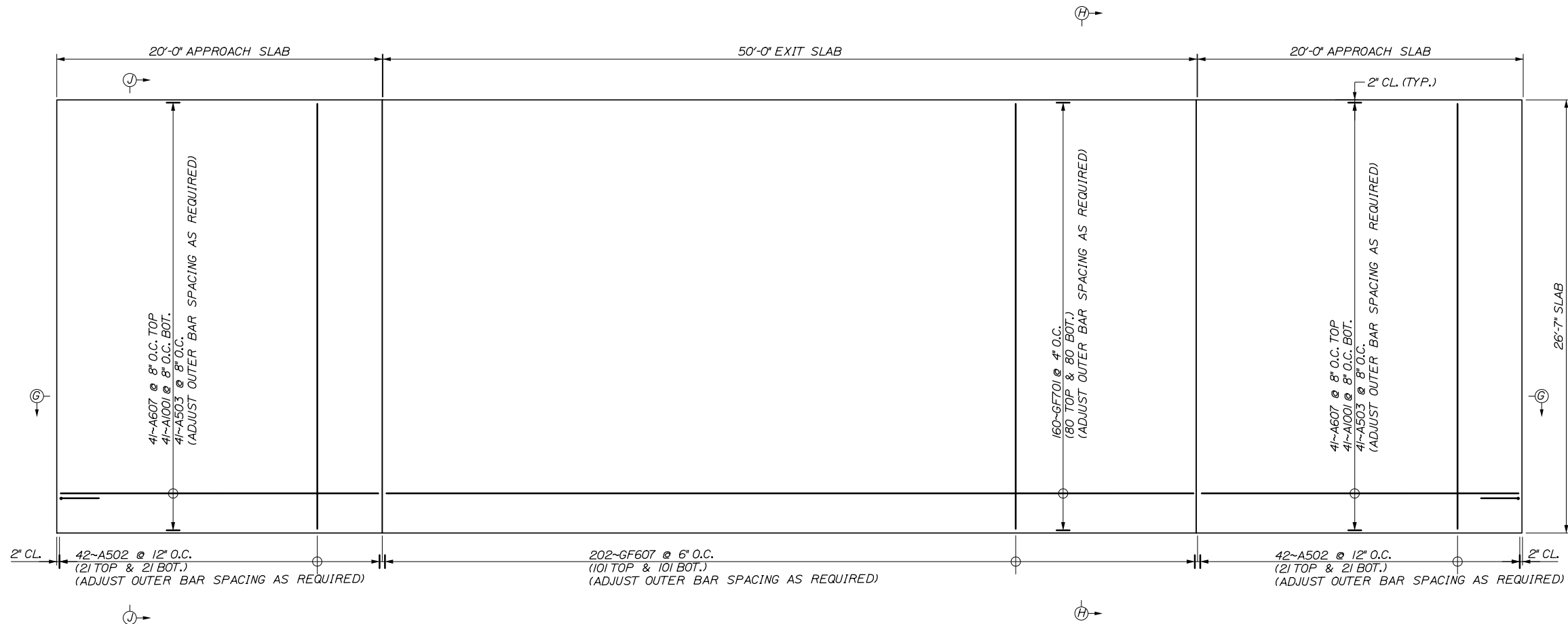
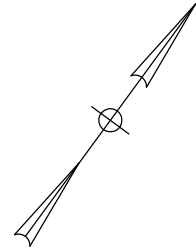
1. FOR SECTIONS G-G, H-H, AND J-J SEE SHEET TP-20.
2. FOR SECTIONS P-P AND Q-Q SEE SHEET TP-22.
3. FOR REINFORCEMENT SCHEDULE FOR SLABS, SEE SHEET TP-22.
4. ELEVATIONS PROVIDED ARE TOP OF SLAB.

JOINT TYPE LEGEND	
-----	SOFT CUT JOINT. (SEE SECTION Q-Q)
-----	EDGE OF SLAB/ CONTRACTION JOINT (SEE SECTION P-P)

Filename: 261_NB Exit Slab Layout Plan.dgn

Scale: <p style="text-align: center;">AS NOTED</p>	Designed by: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">HNTB</div>	HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909	 THE GOLD STAR MEMORIAL HIGHWAY	EXIT 45 INTERCHANGE RECONFIGURATION NORTHBOUND EXIT TOLL POINT SLAB LAYOUT PLAN																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 65%;">Revision</th> <th style="width: 10%;">By</th> <th style="width: 20%;">Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	Revision	By	Date													CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.	SHEET NUMBER: TP-16 CONTRACT: 2021.07 379 OF 431
No.	Revision	By	Date																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">By</th> <th style="width: 10%;">Date</th> <th style="width: 10%;">By</th> <th style="width: 10%;">Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>GLS 09\20</td> <td>Checked</td> <td>BRG 09\20</td> </tr> <tr> <td>Drawn</td> <td>ERB 09\20</td> <td>In Charge of</td> <td>RAL 09\20</td> </tr> </tbody> </table>	By	Date	By	Date	Designed	GLS 09\20	Checked	BRG 09\20	Drawn	ERB 09\20	In Charge of	RAL 09\20								
By	Date	By	Date																	
Designed	GLS 09\20	Checked	BRG 09\20																	
Drawn	ERB 09\20	In Charge of	RAL 09\20																	

Date: 1/14/2021



PLAN
1/4" = 1'-0"

NOTE:
 1. PILE CAP REINFORCING NOT SHOWN.
 2. FOR SECTIONS G-G, H-H, AND J-J SEE SHEET TP-20.

Filename: 262_NB Exit Slab Reinforcing Plan.dgn

Scale: AS NOTED			
No.	Revision	By	Date

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Drawn	ERB	09\20	In Charge of	RAL	09\20

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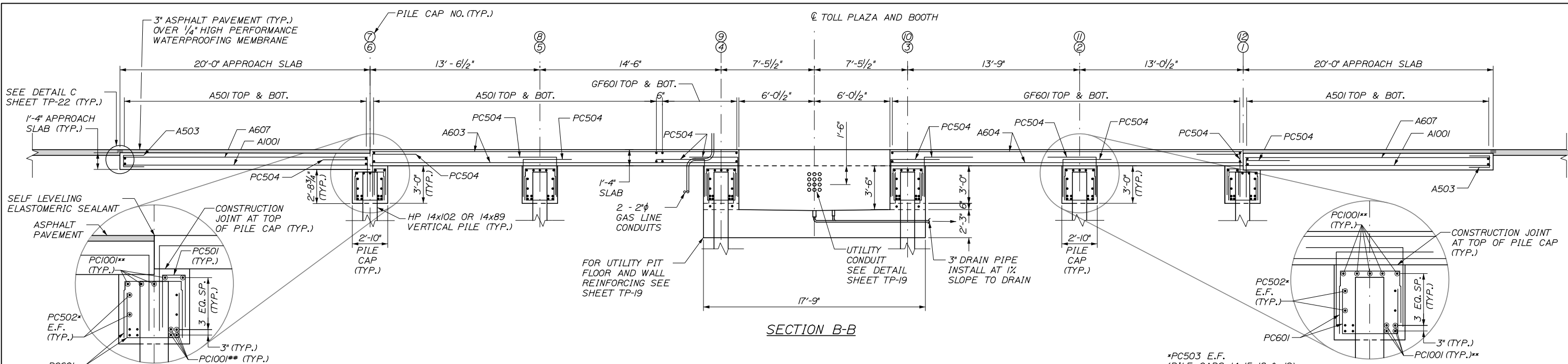
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

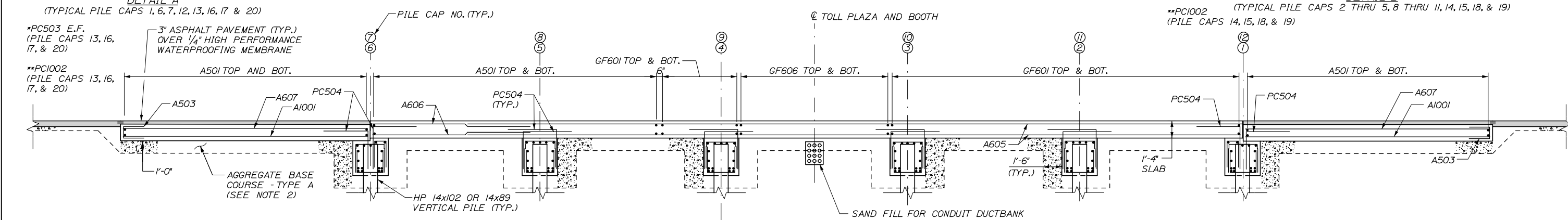
EXIT 45
INTERCHANGE RECONFIGURATION
NORTHBOUND EXIT TOLL POINT
SLAB REINFORCEMENT PLAN

SHEET NUMBER: TP-17
CONTRACT: 2021.07
380 OF 431

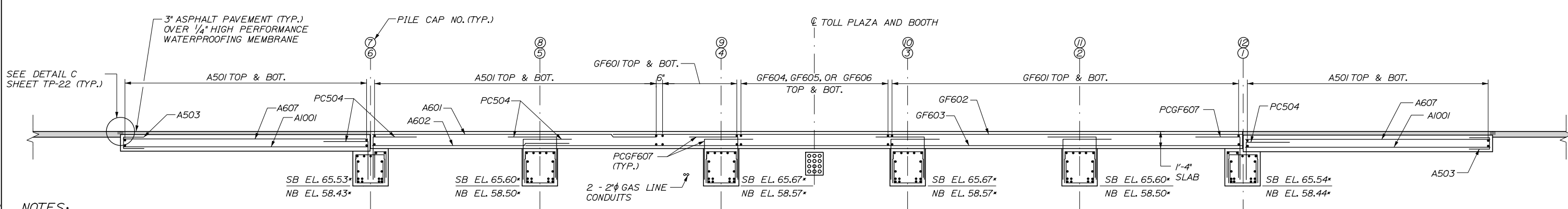
Date: 1/14/2021



SECTION B-B



SECTION C-C



SECTION D-D

- NOTES:**
- ISLANDS NOT SHOWN FOR CLARITY.
 - LIMITS OF AGGREGATE BASE COURSE - TYPE A. TYPICAL FOR NORTHBOUND AND SOUTHBOUND PLAZAS.

* BOTTOM OF PILE CAPS FOR ENTRY SLAB SHALL BE CAST LEVEL ALONG FULL WIDTH OF ENTRY SLAB

Scale: AS NOTED

No.	Revision	By	Date

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HNTB

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Drawn	ERB	09\20	In Charge of	RAL	09\20

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MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

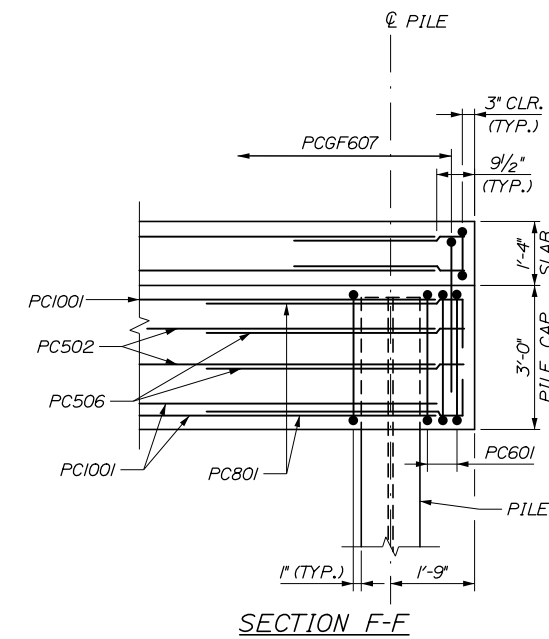
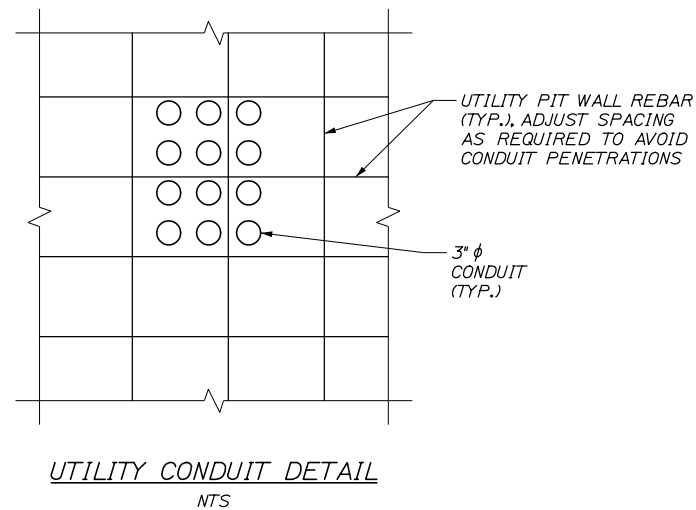
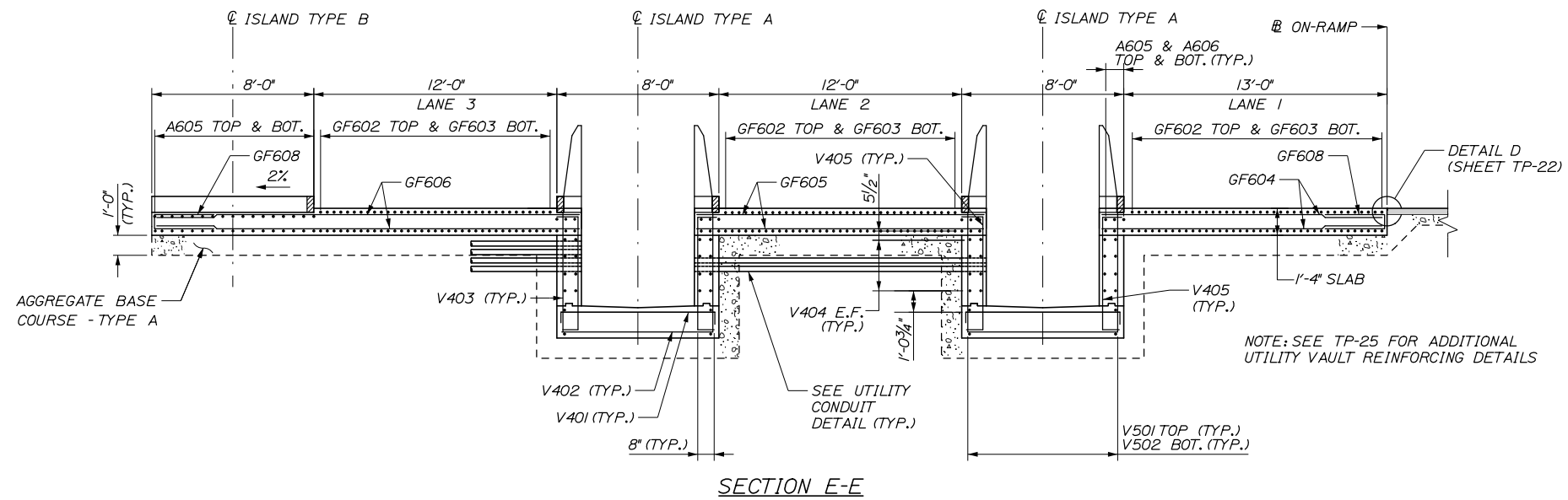
EXIT 45
 INTERCHANGE RECONFIGURATION
 ENTRY TOLL PLAZA
 FOUNDATION AND SLAB SECTIONS I

SHEET NUMBER: TP-18
 381 OF 431

CONTRACT: 2021.07

Filename: 263_Entry Plaza Foundation Section 1.dgn

Date: 1/14/2021




Filename: 264_Entry Slab Foundation Section 2.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

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	ERB	09\20	
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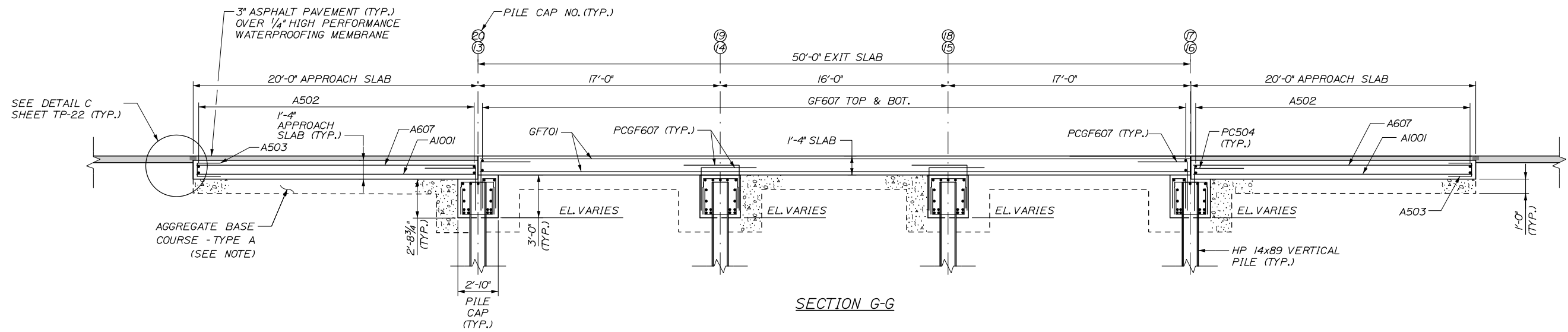
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

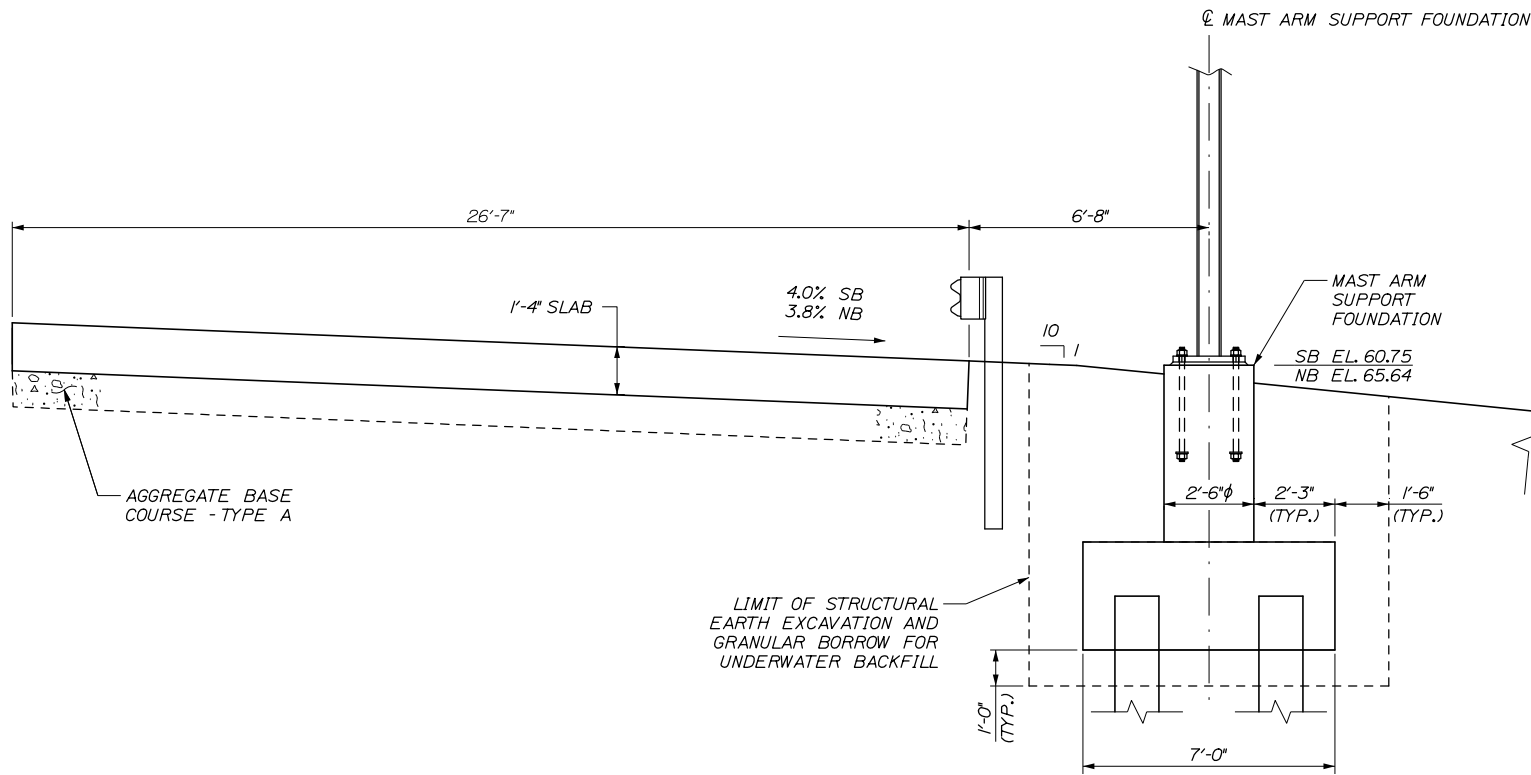
EXIT 45
 INTERCHANGE RECONFIGURATION
 ENTRY TOLL PLAZA
 FOUNDATION AND SLAB SECTIONS II

SHEET NUMBER: TP-19
 CONTRACT: 2021.07
 382 OF 431

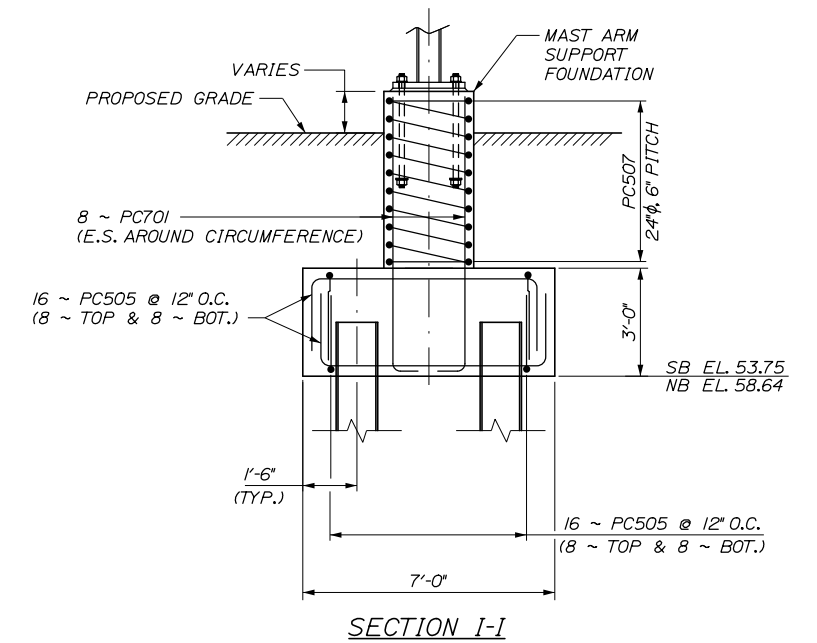
Date: 1/14/2021



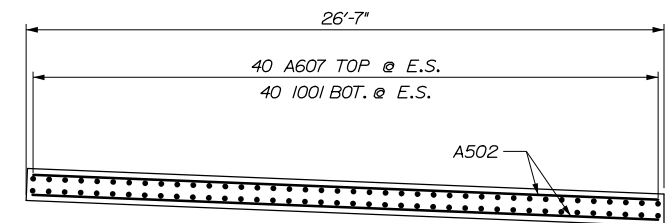
SECTION G-G



SECTION H-H



SECTION I-I



SECTION J-J

NOTE:
LIMITS OF AGGREGATE BASE COURSE - TYPE A. TYPICAL FOR NORTHBOUND AND SOUTHBOUND EXIT SLABS.

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
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THE GOLD STAR MEMORIAL HIGHWAY

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EXIT 45 INTERCHANGE RECONFIGURATION
EXIT TOLL POINT FOUNDATION AND SLAB SECTIONS

SHEET NUMBER: TP-20

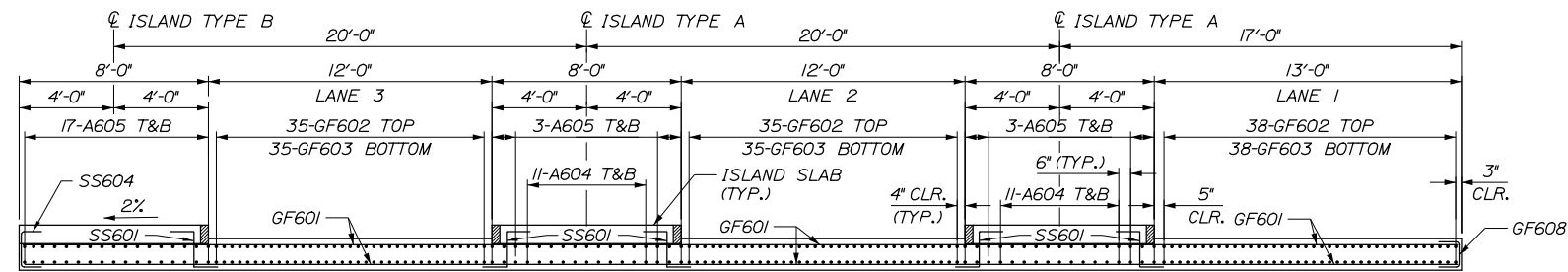
CONTRACT: 2021.07

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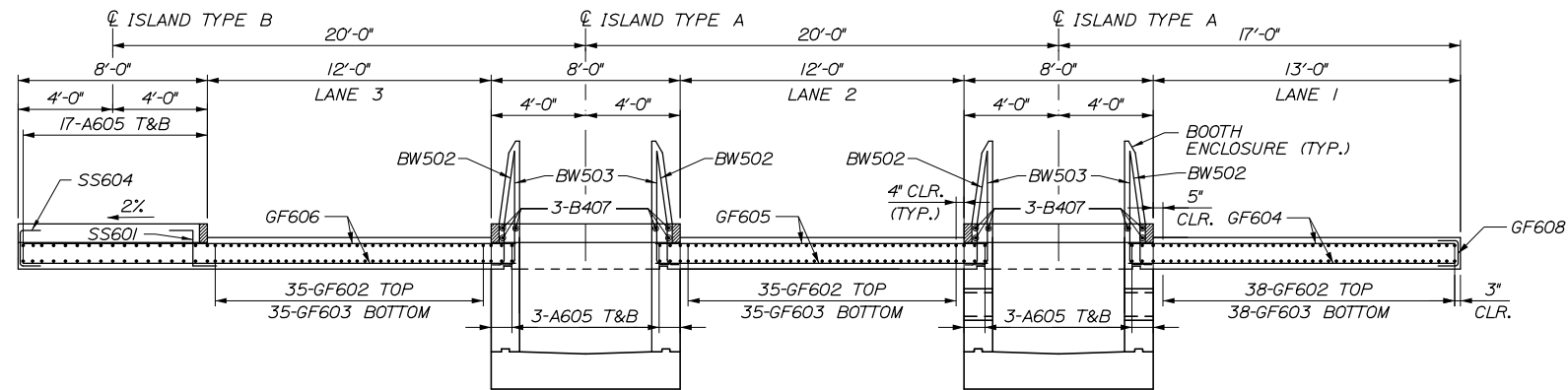
Filename: 265_Exit Slab Foundation Section.dgn

Date: 1/14/2021

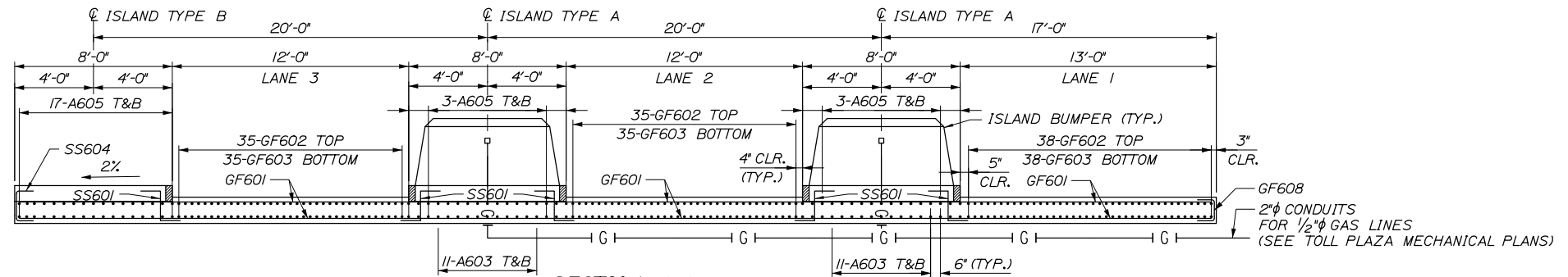
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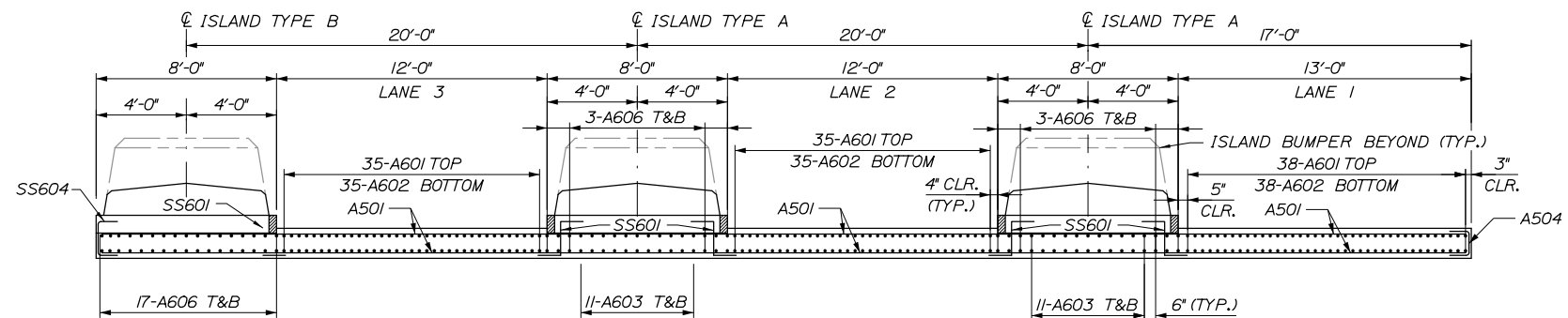
SECTION K-K
SCALE: 1/4" = 1'-0"



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



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




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

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	By	Date	
	By	Date	
	By	Date	

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**THE GOLD STAR
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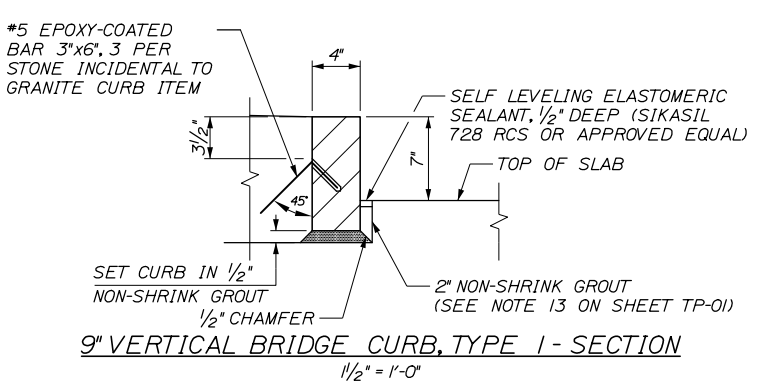
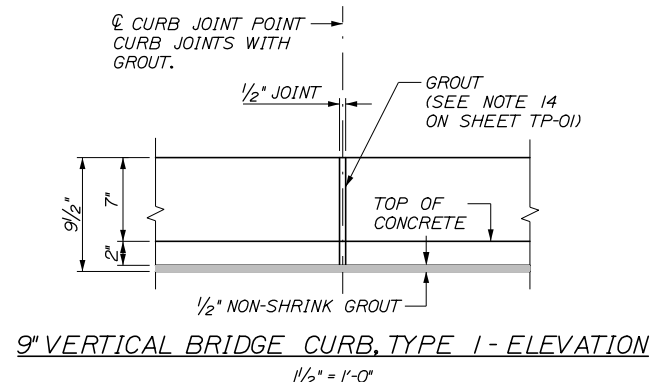
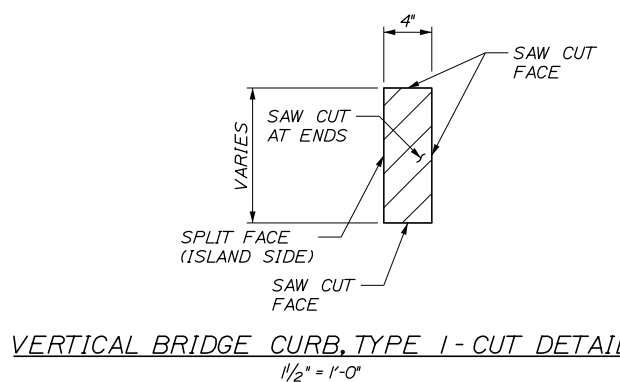
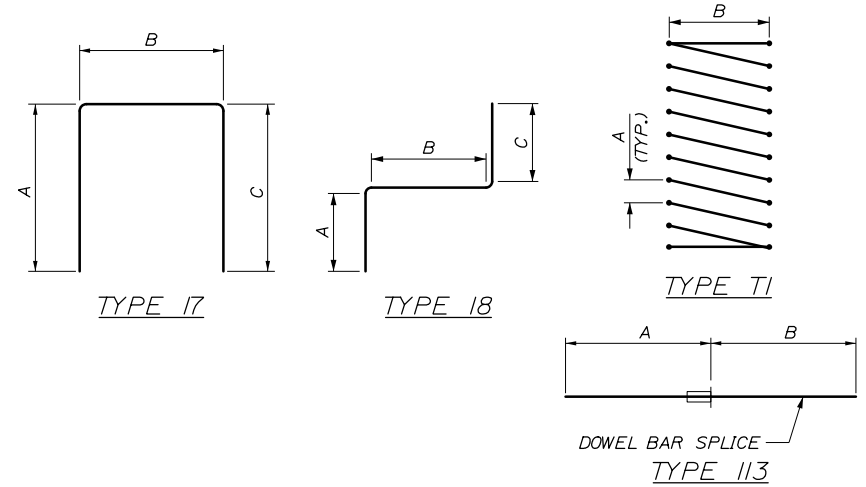
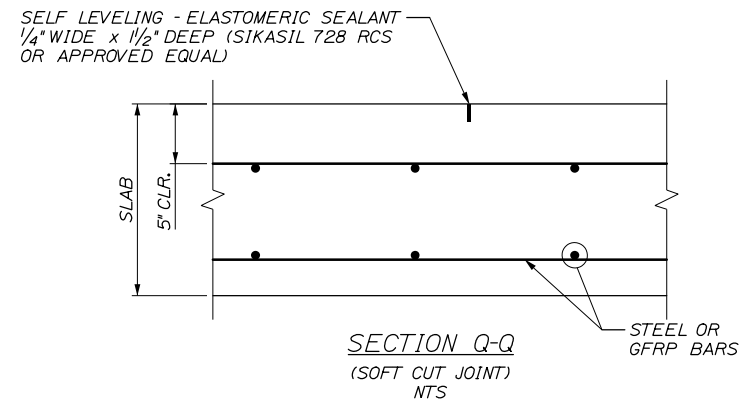
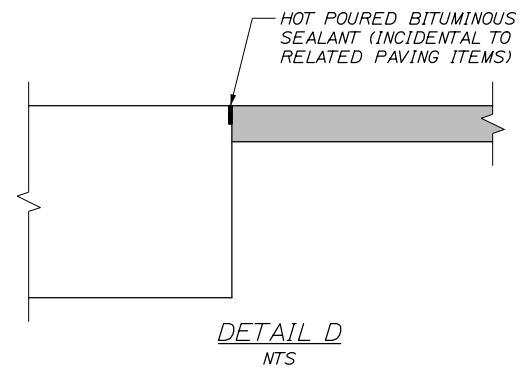
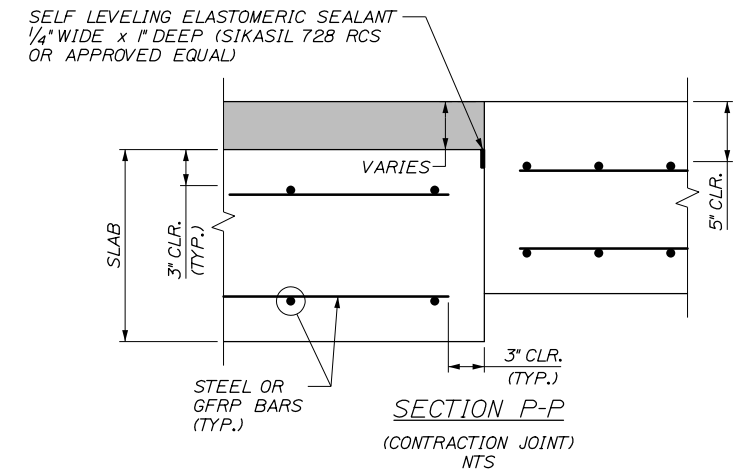
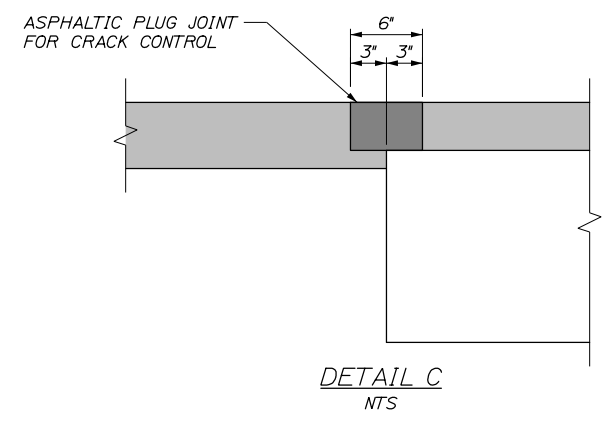
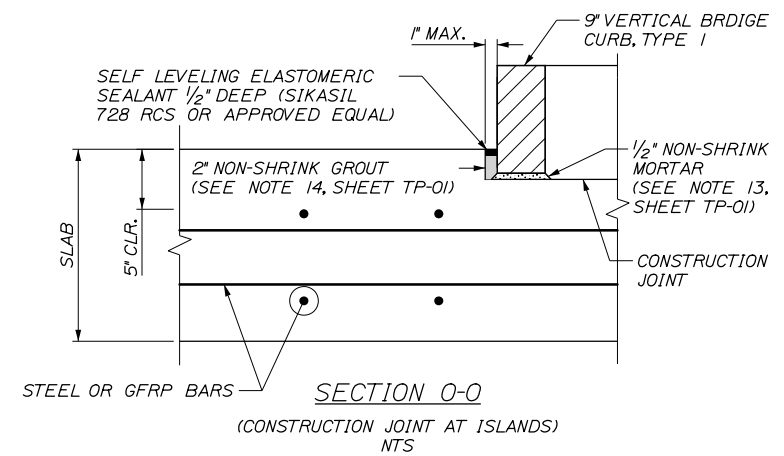
MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
SLAB SECTIONS

SHEET NUMBER: TP-21
CONTRACT: 2021.07
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Date: 1/14/2021

PILE CAP & STRUCTURAL SLAB REINFORCING SCHEDULE														
MARK	SIZE	SB NO.	NB NO.	LENGTH	TYPE	A	B	C	D	E	F	G	INCR.	REMARKS
PILE CAP														
PC501	5	352	352	5' - 5"	17	2'-3"	0'-11"	2'-3"						Steel
PC502	5	24	24	60' - 0"	STR									Steel lane 1-3
PC503	5	16	16	26' - 3"	STR									Steel Lane 4
PC504	5	557	557	6' - 6"	17	3'-3"	3'-3"							Steel, Cap to Slab L-Bar
PC505	5	32	32	11' - 6"	17	2'-6"	6'-6"	2'-6"						Steel, Mast Arm Footing Horizontal
PC506	5	48	48	3' - 4"	STR									Steel, End Stagger Lap
PC507	5	1	1	51' - 5"	T1	6"	2'-0"							Steel, Mast Arm Pedestal Spiral
PC601	6	1970	1970	6' - 10"	17	2'-3"	2'-4"	2'-3"						Steel, Stirrups
PC701	7	8	8	7' - 9"	17	6'7"	1'-2"	0"						Steel, Mast Arm Pedestal Vertical
PC801	8	108	108	7' - 4"	17	1'-0"	6'-4"							Steel, Lanes 1 and 3 Beams, 5 Top, 4 Bottom @ End
PCGF607	6	424	424	7' - 4"	17	3'-8"	3'-8"							GFRP, Cap to Slab L-Bar
PC1001	10	78	78	60' - 0"	STR									Steel
PC1002	10	52	52	26' - 3"	STR									Steel
STRUCTURAL SLAB														
A501	5	180	180	60' - 0"	STR									Steel, Transverse Appr & Deck Lanes 1 to 3 Section
A502	5	84	84	26' - 2"	STR									Steel, Transverse Appr Lane 4
A503	5	266	266	6' - 4"	17	2'-9"	0'-10"	2'-9"						Steel, Appr Far Ends All Lanes, Long Direction
A504	5	90	90	6' - 2 1/2"	17	2'-9"	0'-8 1/2"	2'-9"						Steel, Transverse Direction, End Wrap
A601	6	108	108	22' - 8"	STR									Steel, Lanes 1 to 3 before Toll Sensors, Top
A602	6	108	108	16' - 6"	STR									Steel, Lanes 1 to 3 before Toll Sensors, Bottom
A603	6	44	44	29' - 1"	STR									Steel, Lanes 1 to 3 in Island, Top & Bottom, Start of Lane
A604	6	44	44	27' - 10"	STR									Steel, Lanes 1 to 3 in Island, Top & Bottom, End of Lane
A605	6	58	58	60' - 0"	STR									Steel, Stagger Lap, Lanes 1 to 3, Island
A606	6	58	58	13' - 0"	STR									Steel, Stagger Lap, Lanes 1 to 3, Island
A607	6	266	266	19' - 7"	STR									Steel, Appr, Top Long
A1001	10	266	266	19' - 7"	STR									Steel, Appr, Bottom Long
GF601	6	140	140	60' - 0"	STR									GFRP
GF602	6	108	108	53' - 0"	STR									GFRP
GF603	6	108	108	60' - 0"	STR									GFRP
GF604	6	50	50	13' - 10"	STR									GFRP, Right Lane
GF605	6	50	50	14' - 1"	STR									GFRP, Center Lane
GF606	6	50	50	20' - 10"	STR									GFRP, Left Lane
GF607	6	202	202	26' - 2"	STR									GFRP, Lane 4, Transverse Top & Bottom
GF608	6	140	140	6' - 4"	17	2'-9"	0'-10"	2'-9"						GFRP, Transverse Direction, End Wrap
GF701	7	160	160	49' - 7"	STR									GFRP, Lane 4, Longitudinal Top & Bottom
SS601	6	350	350	3' - 6"	18	1'-0"	1'-6"	1'-0"						Steel, Structural Slab to Island Slab
SS602	6	14	14	2' - 8"	17	1'-0"	1'-8"	0"						Steel, Structural Slab to Island Slab
SS603	6	7	7	3' - 2"	17	1'-6"	1'-8"	0"						Steel, Structural Slab to Island Slab
SS604	6	65	65	3' - 6"	17	1'-0"	1'-6"	1'-0"						Steel, Structural Slab to Island Slab



Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
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Drawn	ERB	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
 TOLL PLAZA SLAB DETAILS

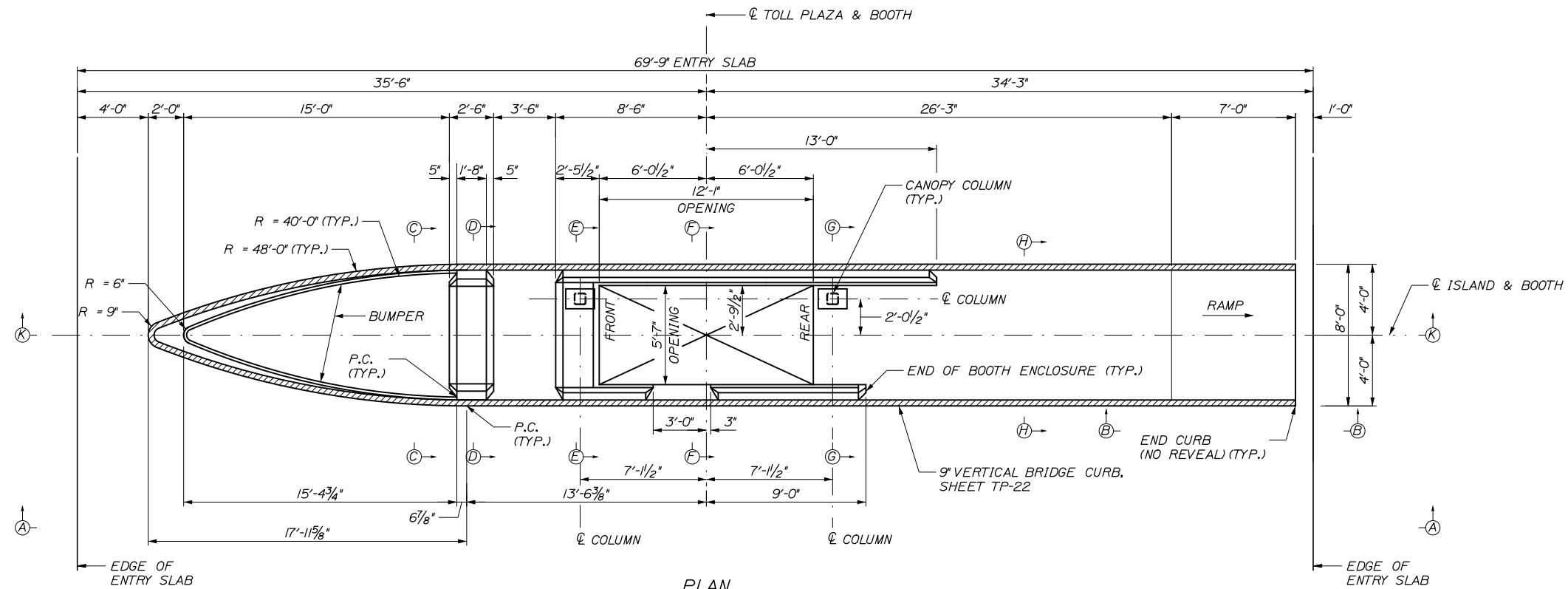
SHEET NUMBER: TP-22
 385 OF 431

CONTRACT: 2021.07

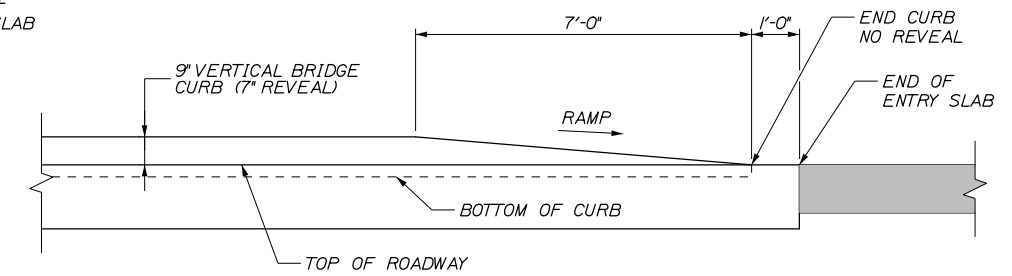
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Date: 1/14/2021

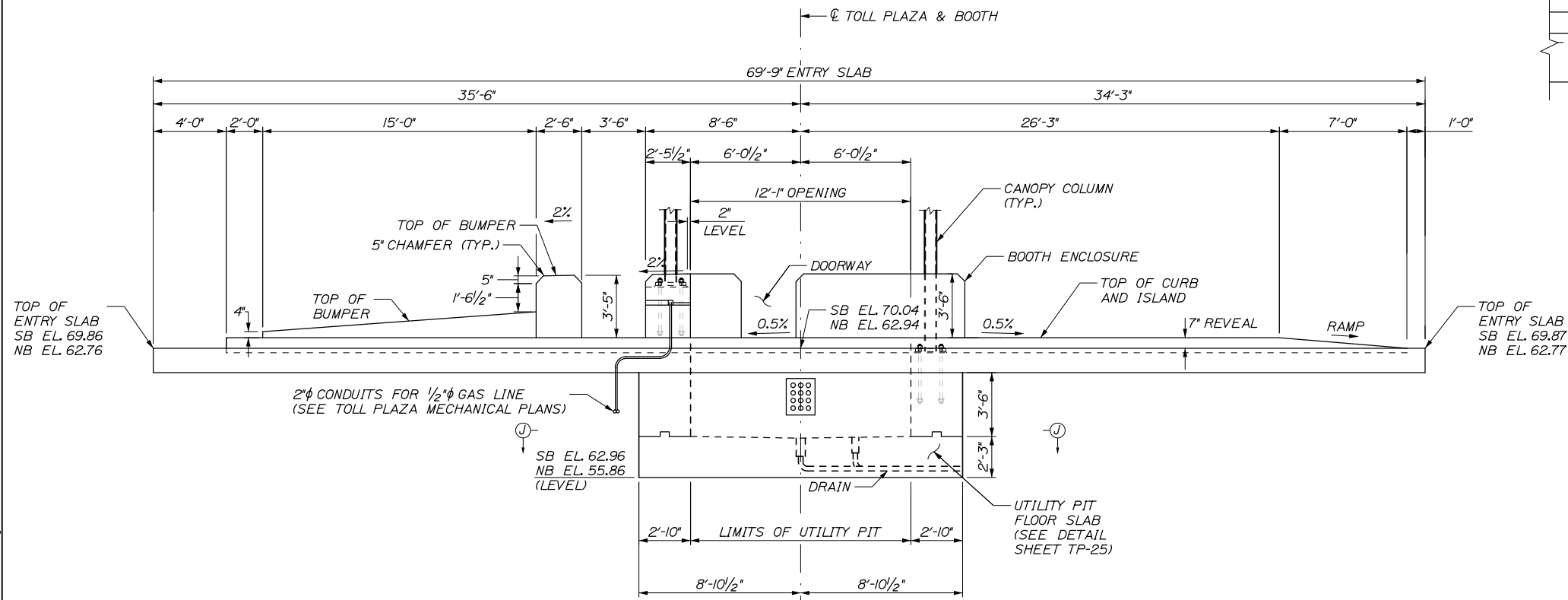
Filename: 268_Island Type A Plan and Section.dgn



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



SECTION B-B
SCALE: 1/2" = 1'-0"



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

NOTES:

1. FOR REINFORCING DETAILS OF ISLANDS TYPE A, SEE SHEETS TP-24 THROUGH TP-26.
2. FOR LOCATION OF ELECTRONIC TOLL COLLECTION EQUIPMENT, SEE ELECTRICAL PLANS.
3. FOR CONDUITS WITHIN ISLAND AND STRUCTURAL SLAB, SEE ELECTRICAL PLANS.
4. BARRIER WALL AND ISLAND SLABS TO HAVE ADDITIONAL CONSTRUCTION JOINTS OR SOFT CUT JOINTS SPACED EVERY 10 FEET OR AS DIRECTED BY THE RESIDENT.
5. GRANITE CURBING ON ISLAND SHALL BE PAID FOR UNDER ITEMS 609.13 VERTICAL BRIDGE CURB TYPE 1 AND 609.14 VERTICAL BRIDGE CURB TYPE 1 - CIRCULAR.
6. FOR SECTIONS C-C, D-D, E-E, F-F, G-G, H-H, AND J-J SEE SHEET TP-25.
7. FOR SECTION K-K SEE SHEET TP-24.
8. SEE TOLL PLAZA ELECTRICAL PLANS AND LIGHTNING SUPPRESSION PLANS FOR JUNCTION BOX AND CONDUIT LOCATIONS.

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	GLS 09\20	Checked	BRG 09\20
				Drawn	ERB 09\20	In Charge of	RAL 09\20

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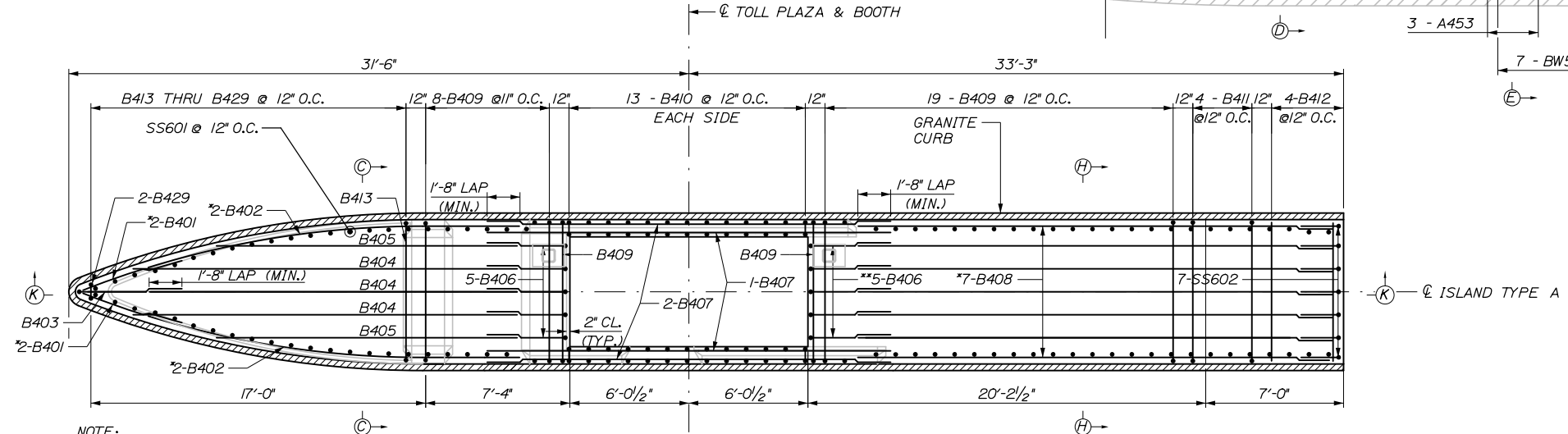
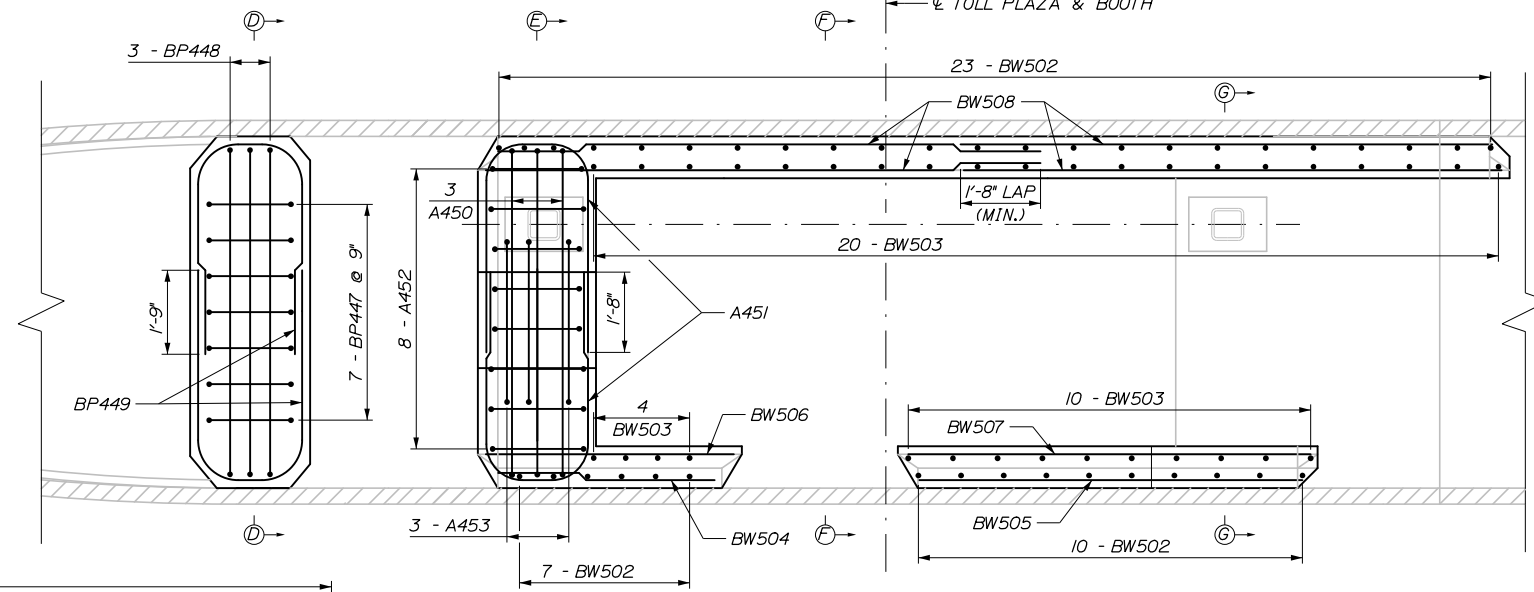
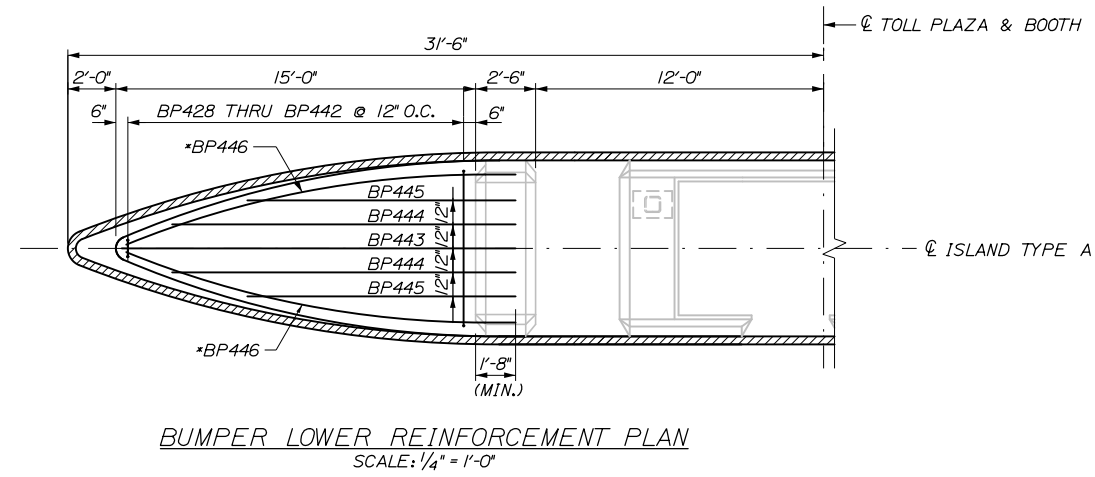
MAINE
TURNPIKE

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

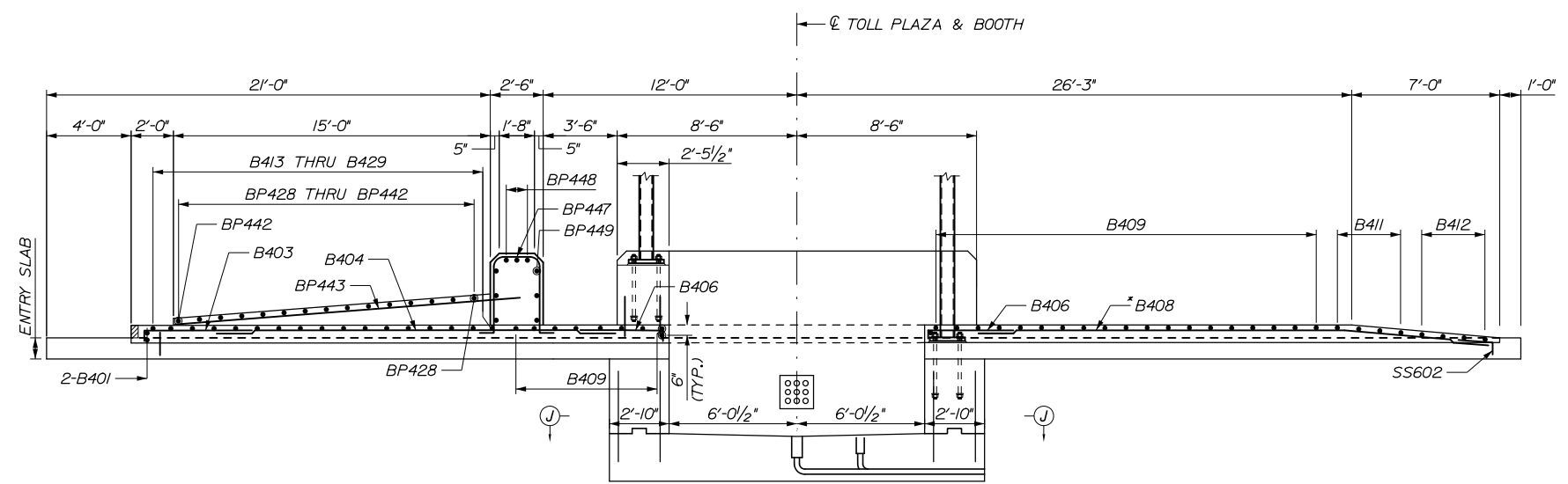
EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
ISLAND TYPE A PLAN AND SECTION
SHEET NUMBER: TP-23
CONTRACT: 2021.07
386 OF 431

Date: 1/14/2021



NOTE: STRUCTURAL SLAB AND ROOF DRAIN NOT SHOWN FOR CLARITY.

*FIELD BEND AS REQUIRED
**ADJUST AS REQUIRED TO CLEAR CANOPY SUPPORTS AND ROOF DRAIN



NOTES:
1. FOR SECTIONS C-C, D-D, E-E, F-F, G-G, H-H, AND J-J SEE SHEET TP-25.

Filename: 269_Island Type A Reinforcing.dgn

Scale: AS NOTED			
No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

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	GLS	09\20		BRG	09\20
Drawn	By	Date	In Charge of	By	Date
	ERB	09\20		RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

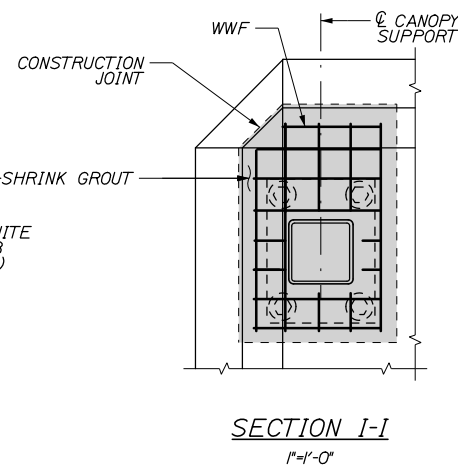
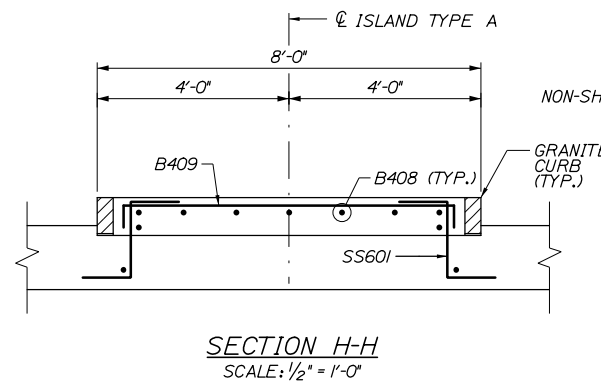
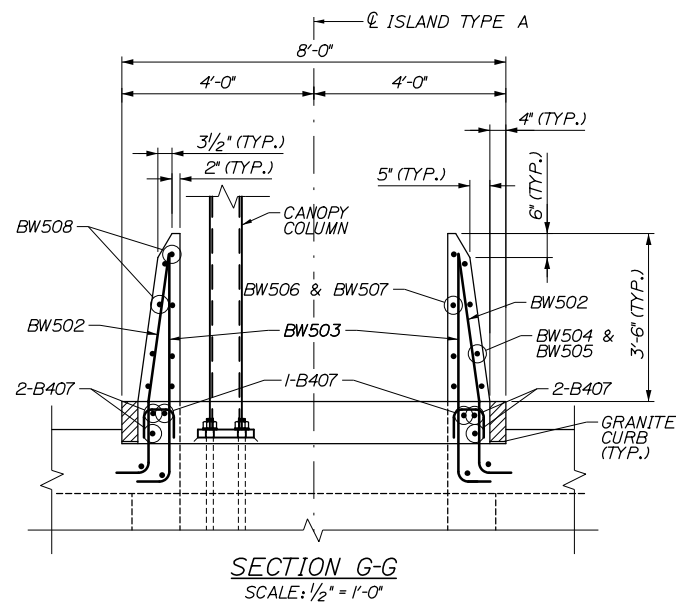
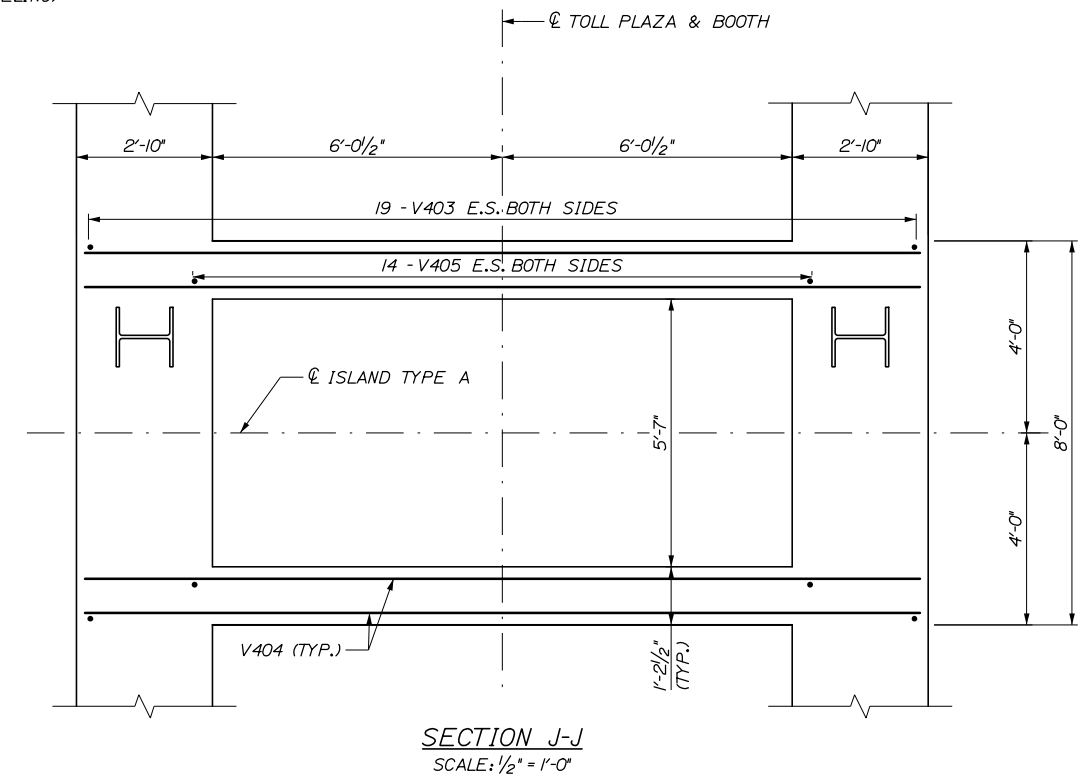
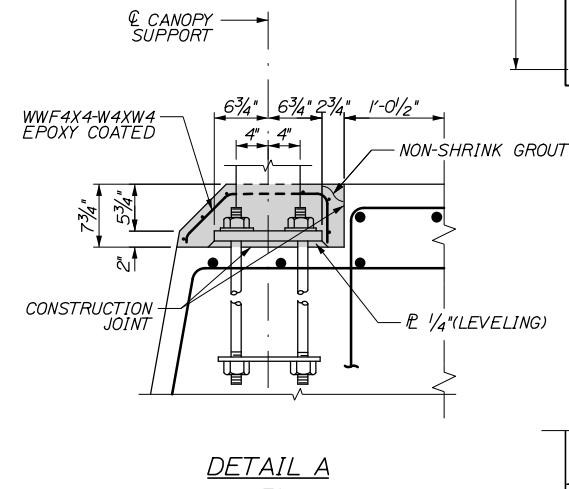
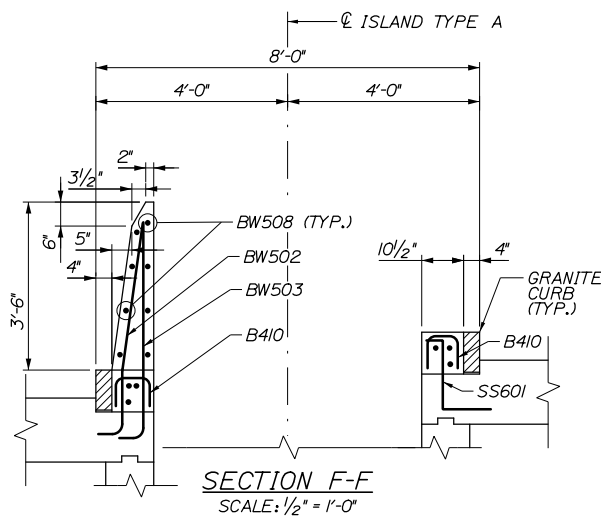
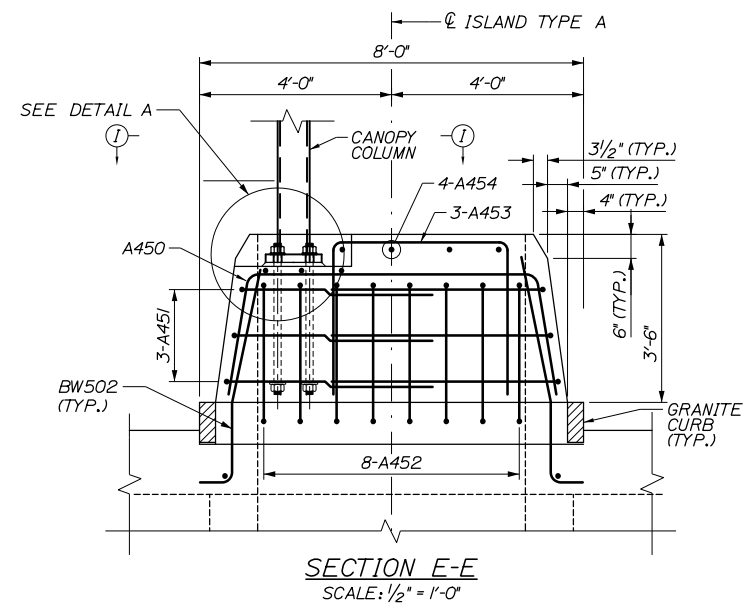
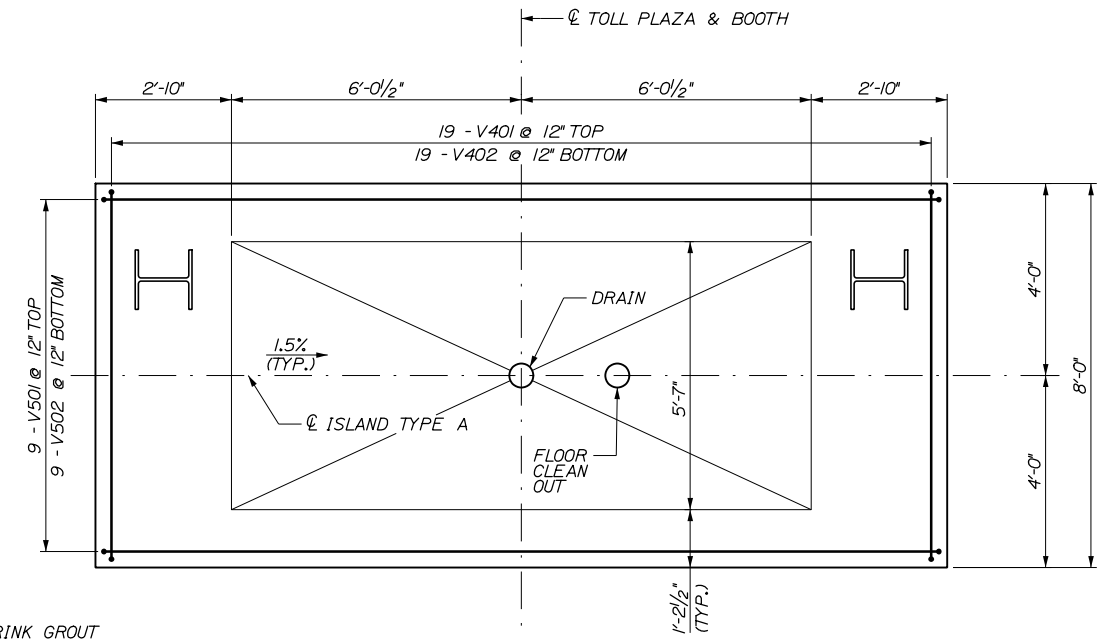
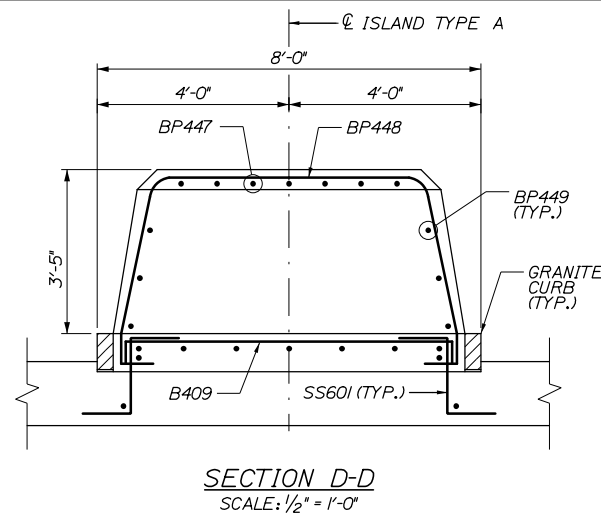
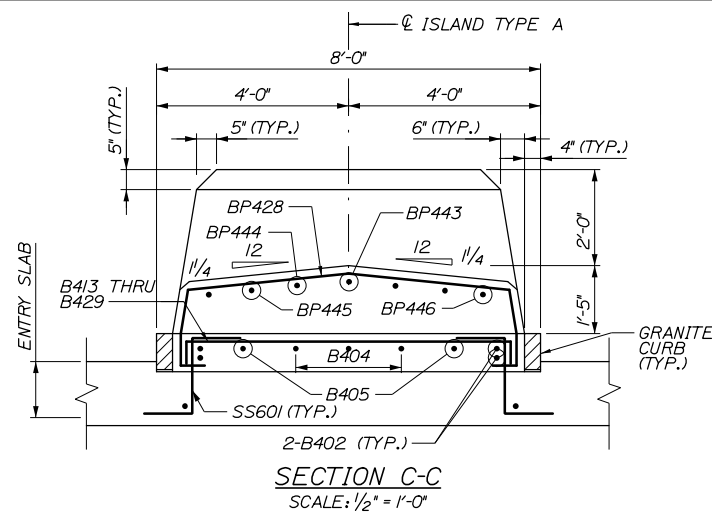
MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
ISLAND TYPE A REINFORCEMENT

SHEET NUMBER: TP-24
CONTRACT: 2021.07
387 OF 431

Date: 1/14/2021

Filename: 270_Island Type A Sections.dgn



Scale: AS NOTED			
No.	Revision	By	Date

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
ISLAND TYPE A SECTIONS

SHEET NUMBER: TP-25
CONTRACT: 2021.07
388 OF 431

Date: 1/14/2021

TOLL ISLAND TYPE A REINFORCING SCHEDULE

MARK	SIZE	NB NO.	SB NO.	LENGTH	TYPE	A	B	C	D	E	F	G	INCR.	REMARKS
ISLAND - SLAB (TOTAL FOR 2 ISLAND SLABS)														
B401	4	8	8	5' - 6"	STR									* FIELD BEND AS REQUIRED
B402	4	8	8	19' - 6"	STR									* FIELD BEND AS REQUIRED
B403	4	2	2	5' - 11 1/2"	17		5 1/2"	5'-6"						
B404	4	6	6	19' - 6"	STR									
B405	4	4	4	15' - 6"	STR									
B406	4	20	20	5' - 11 1/2"	17		5 1/2"	5'-6"						
B407	4	12	12	21' - 0"	STR									
B408	4	14	14	24' - 6"	STR									
B409	4	58	58	7' - 11"	17		5 1/2"	7'-0"	5 1/2"					
B410	4	52	52	1' - 5 1/2"	17		5 1/2"	6'-3"	5 1/2"					
B411	4	8	8	7' - 6"	17		3"	7'-0"	3"					
B412	4	8	8	7' - 0"	STR									
B413	4	2	2	7' - 10"	17		5 1/2"	6'-11"	5 1/2"					
B414	4	2	2	7' - 9"	17		5 1/2"	6'-10"	5 1/2"					
B415	4	2	2	7' - 8"	17		5 1/2"	6'-9"	5 1/2"					
B416	4	2	2	7' - 7"	17		5 1/2"	6'-8"	5 1/2"					
B417	4	2	2	7' - 5"	17		5 1/2"	6'-6"	5 1/2"					
B418	4	2	2	7' - 2"	17		5 1/2"	6'-3"	5 1/2"					
B419	4	2	2	6' - 11"	17		5 1/2"	6'-0"	5 1/2"					
B420	4	2	2	6' - 7"	17		5 1/2"	5'-8"	5 1/2"					
B421	4	2	2	6' - 3"	17		5 1/2"	5'-4"	5 1/2"					
B422	4	2	2	5' - 10"	17		5 1/2"	4'-11"	5 1/2"					
B423	4	2	2	5' - 4"	17		5 1/2"	4'-5"	5 1/2"					
B424	4	2	2	4' - 11"	17		5 1/2"	4'-0"	5 1/2"					
B425	4	2	2	4' - 4"	17		5 1/2"	3'-5"	5 1/2"					
B426	4	2	2	3' - 9"	17		5 1/2"	2'-10"	5 1/2"					
B427	4	2	2	3' - 2"	17		5 1/2"	2'-3"	5 1/2"					
B428	4	2	2	2' - 5"	17		5 1/2"	1'-6"	5 1/2"					
B429	4	2	2	1' - 9"	17		5 1/2"	10"	5 1/2"					

MARK	SIZE	NB NO.	SB NO.	LENGTH	TYPE	A	B	C	D	E	F	G	INCR.	REMARKS
ISLAND - FRONT BUMPER BLOCK (TOTAL FOR 2 BLOCKS)														
BP428	4	4	4	10' - 8"	17D	11"	5"	7 1/2"	3'-6"	3/4"	8"			
BP429	4	4	4	10' - 1 1/4"	17D	10 1/4"	4 3/4"	7 1/2"	3'-3"	3/4"	8"			
BP430	4	2	2	9' - 6 3/4"	17D	9 1/2"	4 1/4"	7 1/2"	3'-1 1/4"	3/4"	8"			
BP431	4	2	2	9' - 0"	17D	8 3/4"	4"	7 1/2"	2'-9 1/4"	1/2"	8"			
BP432	4	2	2	8' - 5 1/2"	17D	8	3 3/4"	7 1/2"	2'-6 1/2"	1/2"	8"			
BP433	4	2	2	7' - 11"	17D	7 1/4"	3 1/2"	7 1/2"	2'-3 1/2"	1/2"	8"			
BP434	4	2	2	7' - 4 1/4"	17D	6 1/2"	3"	7 1/2"	2'-3 3/4"	1/2"	8"			
BP435	4	2	2	6' - 9 3/4"	17D	5 3/4"	2 3/4"	7 1/2"	1'-9 3/4"	1/2"	8"			
BP436	4	2	2	6' - 3"	17D	5"	2 1/2"	7 1/2"	1'-7"	1/4"	8"			
BP437	4	2	2	5' - 8 1/2"	17D	4 1/4"	2"	7 1/2"	1'-4"	1/4"	8"			
BP438	4	2	2	5' - 1 3/4"	17D	3 1/2"	1 3/4"	7 1/2"	1'-1 1/4"	1/4"	8"			
BP439	4	2	2	4' - 7 1/4"	17D	2 3/4"	1 1/2"	7 1/2"	10 1/4"	1/4"	8"			
BP440	4	2	2	4' - 0 3/4"	17D	2"	1 1/4"	7 1/2"	7 1/2"	1/4"	8"			
BP441	4	2	2	3' - 6"	17D	1 1/4"	3/4"	7 1/2"	4 1/2"	0"	8"			
BP442	4	2	2	3' - 2"	17D	1 1/4"	3/4"	7 1/2"	4 1/2"	0"	8"			
BP443	4	2	2	16' - 5"	STR									
BP444	4	4	4	14' - 4"	STR									
BP445	4	4	4	11' - 2"	STR									
BP446	4	4	4	16' - 8"	STR									* FIELD BEND AS REQUIRED
BP447	4	14	14	10' - 3 1/2"	17F		3'-5"	2'-2"	3'-5"	8"				R=5 1/2" (INSIDE RADIUS)
BP448	4	6	6	14' - 7 1/2"	17B	3'-3"	5'-0"	3'-3"	7'-0"	8"				R=5 1/2" (INSIDE RADIUS)
BP449	4	12	12	10' - 2 1/2"	17A		4'-6"	2'-2"	4'-6"					R=9 1/2" (INSIDE RADIUS)

Scale: AS NOTED


No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
GLS	09\20	BRG	09\20
Drawn	ERB	In Charge of	RAL
	09\20		09\20

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THE GOLD STAR MEMORIAL HIGHWAY

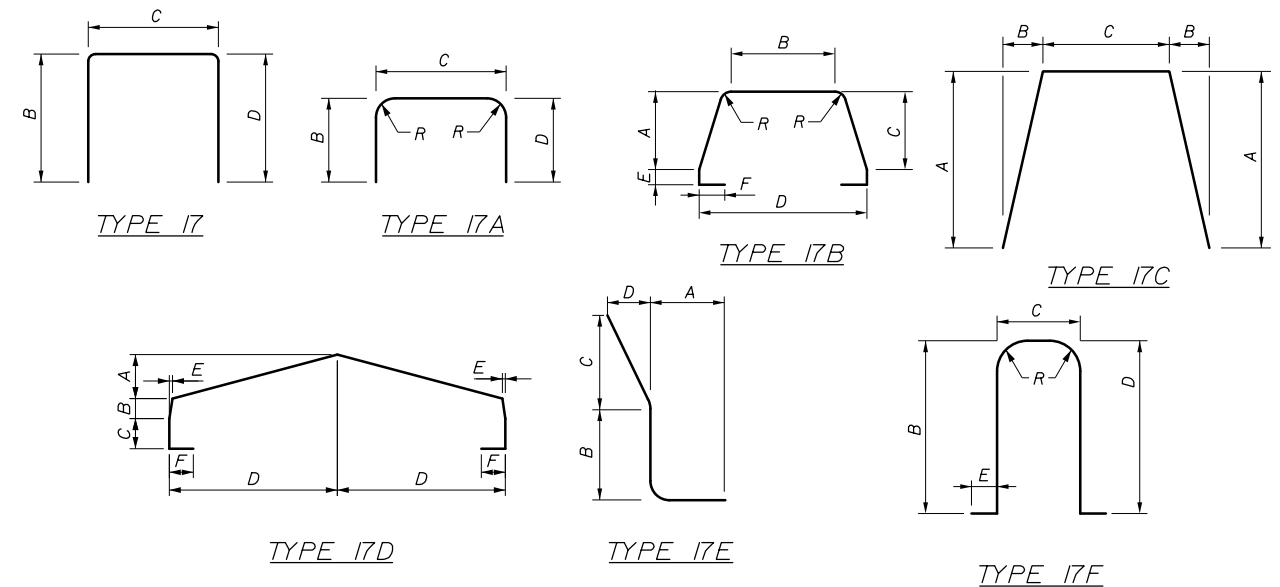
MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 ENTRY TOLL PLAZA
 ISLAND TYPE A REINFORCING SCHEDULE
 SHEET NUMBER: TP-26
 CONTRACT: 2021.07
 389 OF 431

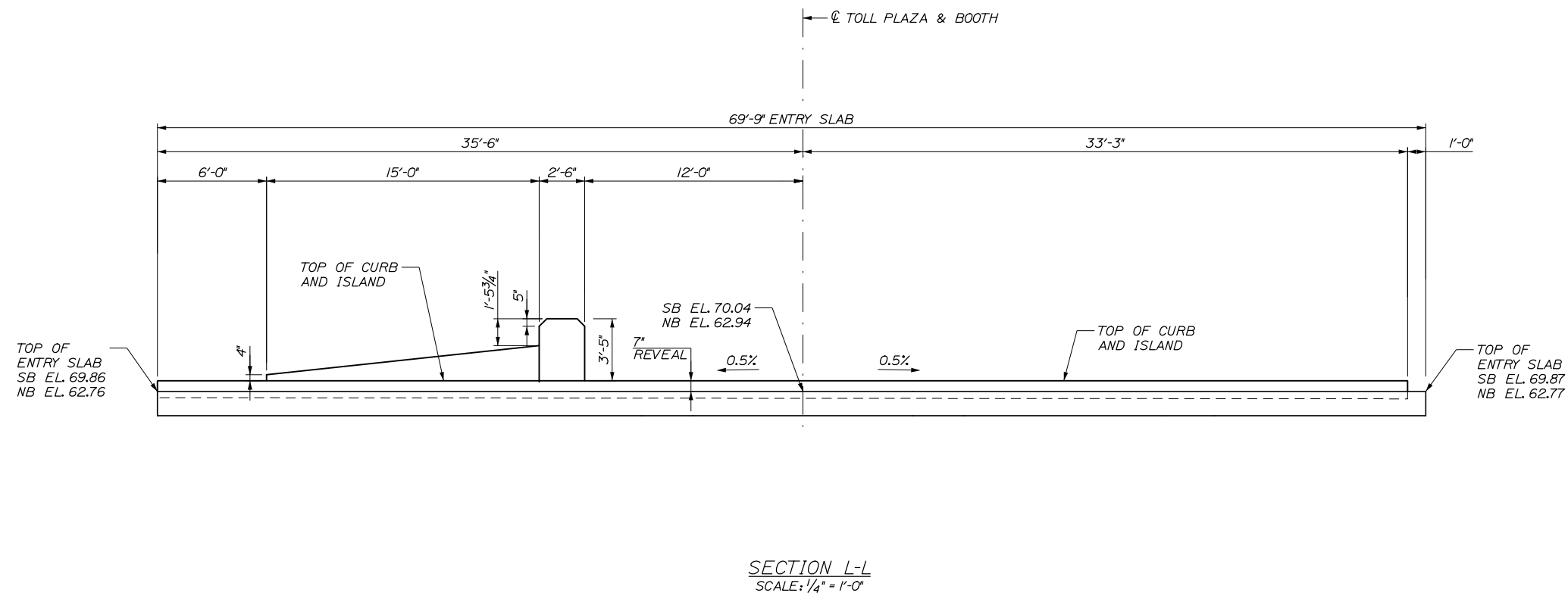
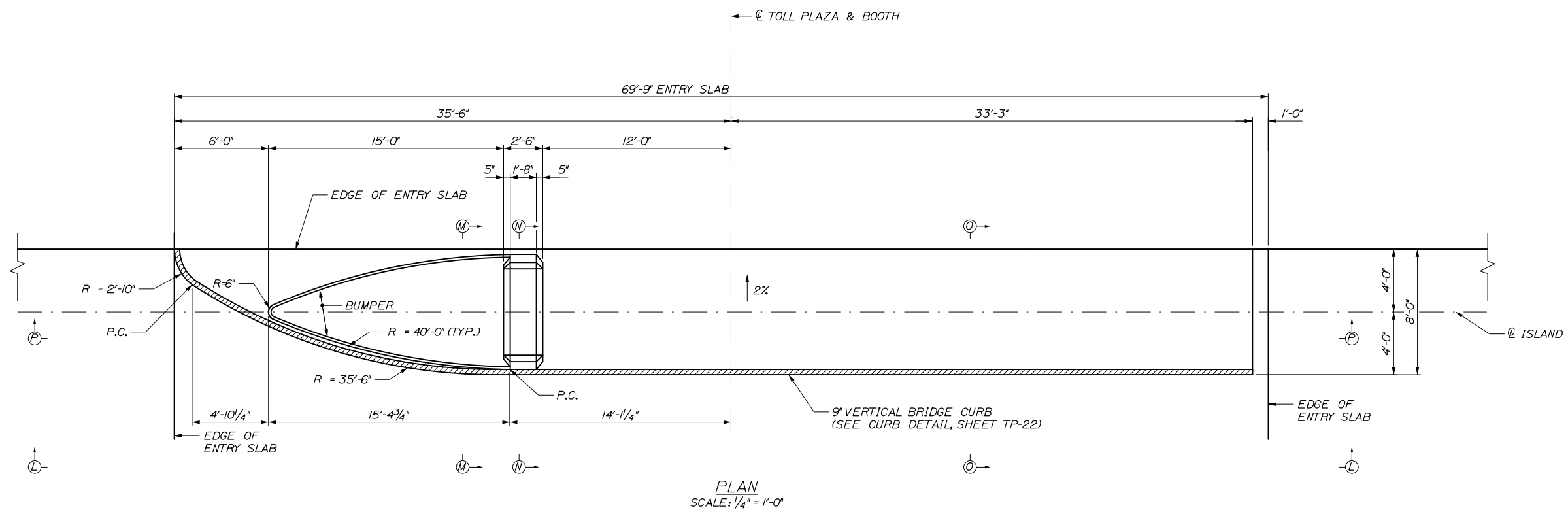
TOLL ISLAND TYPE A REINFORCING SCHEDULE

MARK	SIZE	NB NO.	SB NO.	LENGTH	TYPE	A	B	C	D	E	F	G	INCR.	REMARKS
ISLAND - BOOTH ENCLOSURE AND BARRIER WALL														
A450	4	6	6	11' - 1 1/4"	17C	2'-6"	0'-5"	6'-1/4"						R=5 1/2" (INSIDE RADIUS)
A451	4	12	12	11' - 5 1/2"	17A		4'-8"	2'-1 1/2"	4'-8"					R=8 1/2" (INSIDE RADIUS)
A452	4	16	16	11' - 1/4"	17F		2'-10"	2'-1 1/2"	2'-10"	1'-0"				R=5 1/2" (INSIDE RADIUS)
A453	4	12	12	9' - 4"	17		3'-0"	3'-4"	3'-0"					R=5 1/2" (INSIDE RADIUS)
A454	4	8	8	1' - 11"	STR		3'-0"	3'-4"	3'-0"					
BW502	5	80	80	5' - 9 1/2"	17E	1'-0"	1'-8"	3'-1"	0'-6"					
BW503	5	68	68	5' - 11"	17		1'-0"	4'-11"						
BW504	5	8	8	5' - 2"	STR									
BW505	5	8	8	8' - 5"	STR									
BW506	5	8	8	5' - 11"	STR									
BW507	5	8	8	8' - 5"	STR									
BW508	5	32	32	11' - 9"	STR									

MARK	SIZE	NB NO.	SB NO.	LENGTH	TYPE	A	B	C	D	E	F	G	INCR.	REMARKS
ISLAND - UTILITY VAULT														
V401	4	38	38	9' - 0"	17		0'-9"	7'-6"	0'-9"					
V402	4	38	38	18' - 8"	STR			7'-6"						
V403	4	76	76	6' - 11"	17		6'-3"	0'-8"						
V404	4	32	32	17' - 4"	STR									
V405	4	56	56	8' - 2"	17		0'-11"	6'-7"	0'-8"					
V501	5	18	18	7' - 3"	STR									
V502	5	18	18	7' - 3"	17		4'-0"	17'-3"	4'-0"					



Date: 1/14/2021



- NOTES:**
1. FOR REINFORCING DETAILS OF ISLAND TYPE B, SEE SHEETS TP-28 THROUGH TP-30.
 2. FOR LOCATION OF ELECTRONIC TOLL COLLECTION EQUIPMENT, SEE ELECTRICAL PLANS.
 3. FOR CONDUITS WITHIN ISLAND AND STRUCTURAL SLAB, SEE ELECTRICAL PLANS.
 4. ISLAND SLABS TO HAVE ADDITIONAL CONSTRUCTION JOINTS OR SOFT CUT JOINTS SPACED EVERY 10 FEET OR AS DIRECTED BY THE RESIDENT.
 5. GRANITE CURBING ON ISLAND SHALL BE PAID FOR UNDER ITEM 609.13 VERTICAL BRIDGE CURB TYPE 1 AND 609.14 VERTICAL BRIDGE CURB TYPE 1 - CIRCULAR.
 6. FOR SECTIONS M-M, N-N, O-O, AND P-P SEE SHEET TP-29.

Filename: 272_Island Type B Plan and Section.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
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**THE GOLD STAR
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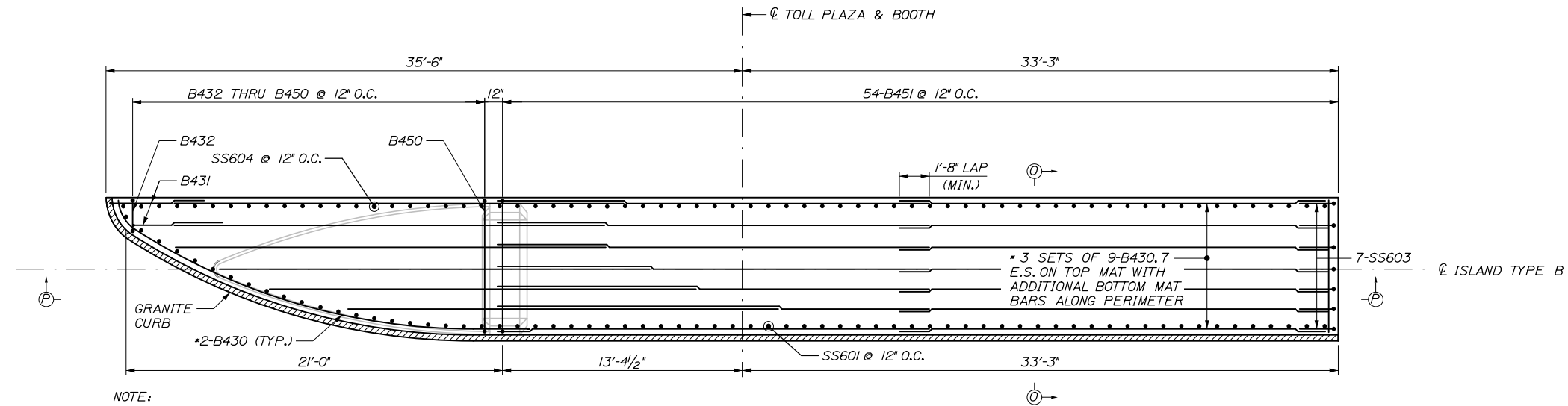
MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
ISLAND TYPE B PLAN AND SECTION**

SHEET NUMBER: TP-27

CONTRACT: 2021.07 390 OF 431

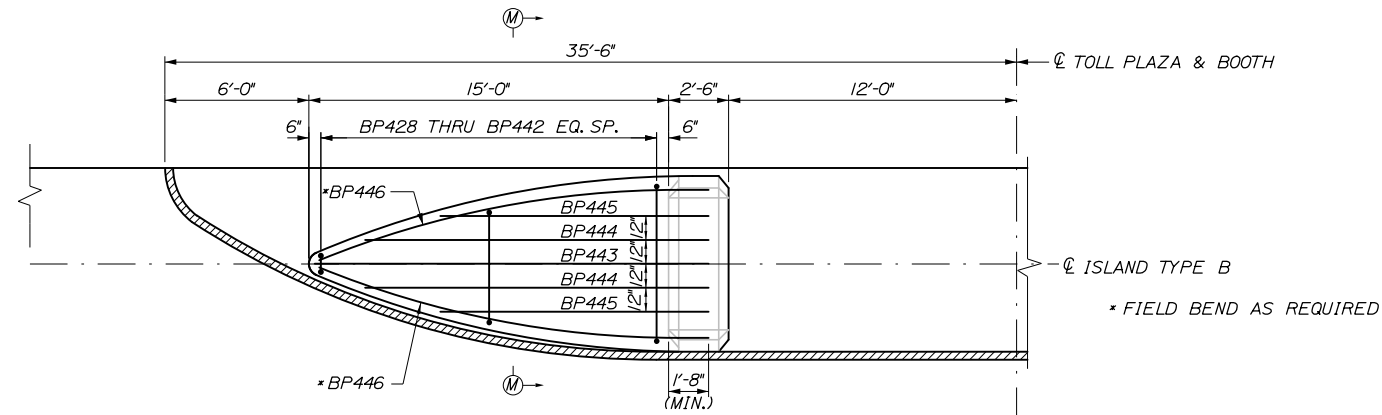
Date: 1/14/2021



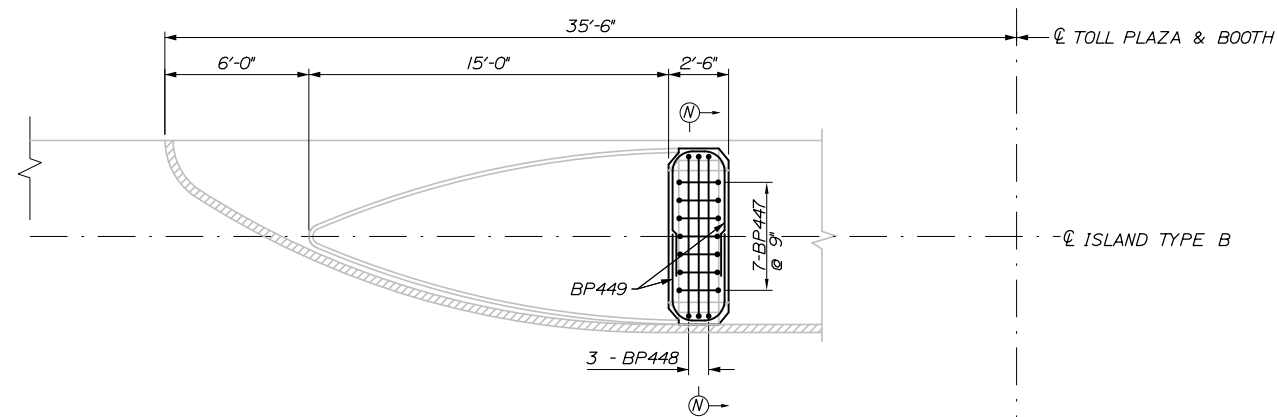
NOTE:
STRUCTURAL SLAB AND
ROOF DRAIN NOT SHOWN
FOR CLARITY.

* FIELD BEND AS REQUIRED
** ADJUST AS REQUIRED TO
CLEAR CANOPY SUPPORTS
AND ROOF DRAIN

ISLAND TYPE B PLAN
SCALE: 1/4" = 1'-0"



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



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

NOTES:
1. FOR ISLAND SECTIONS M-M, N-N O-O,
AND P-P SEE SHEET TP-29.

Filename: 273_Island Type B Reinforcing.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	GLS	09\20	Checked	BRG	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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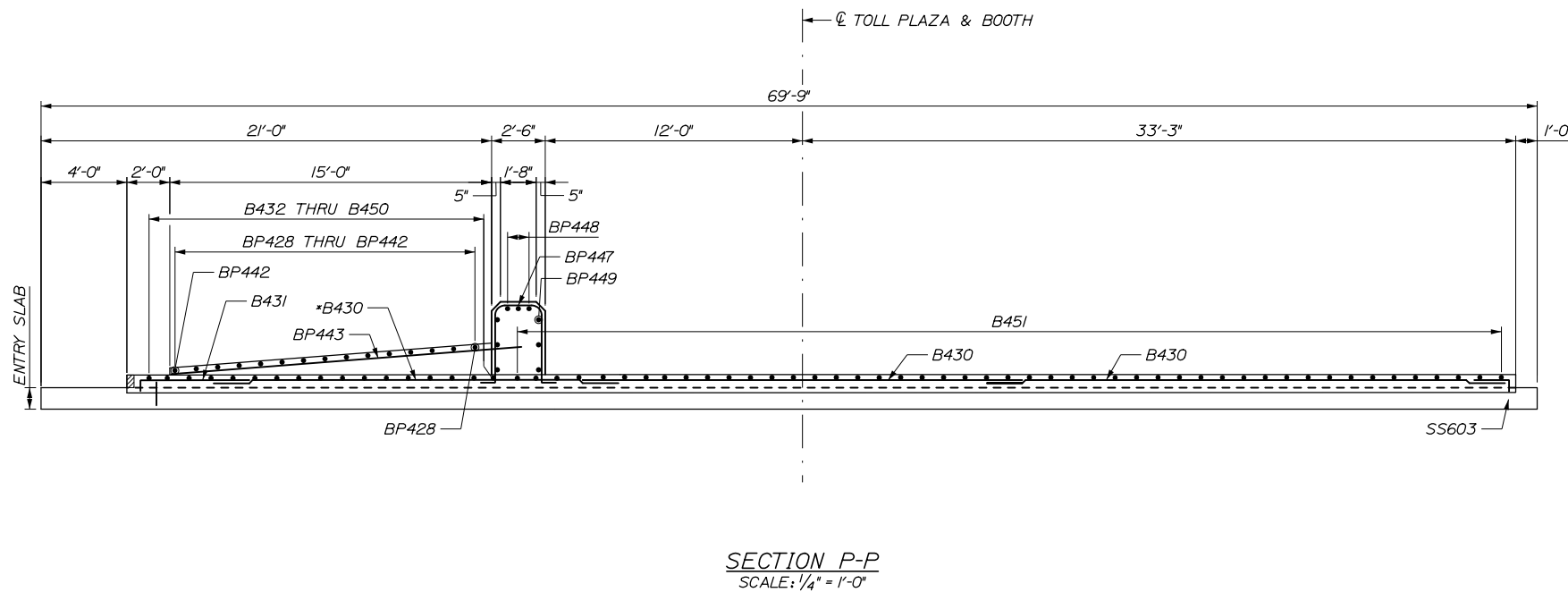
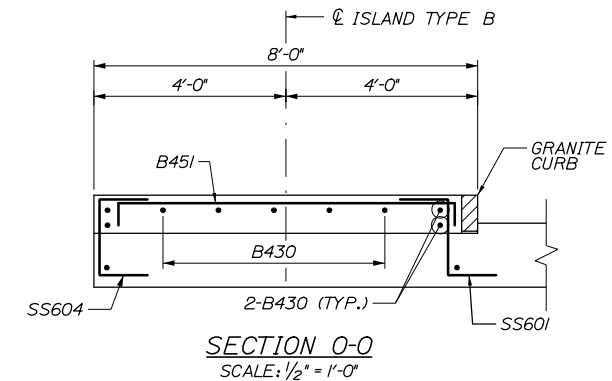
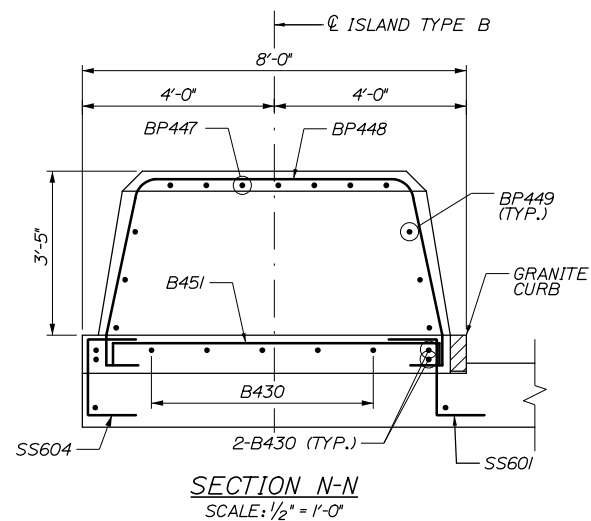
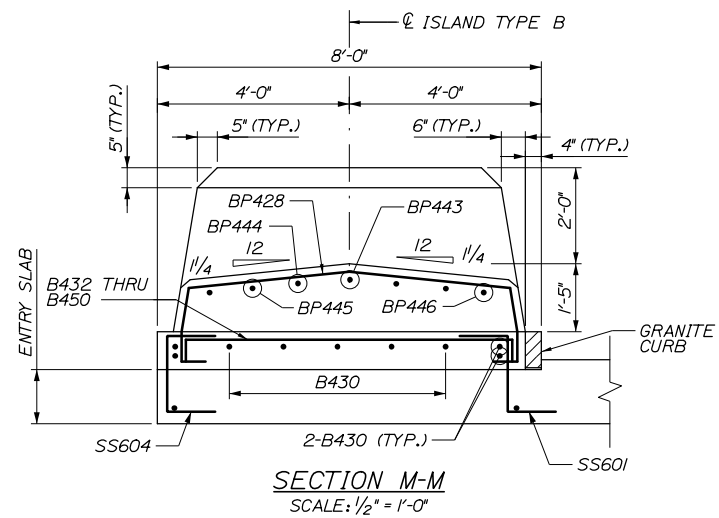
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
ISLAND TYPE B REINFORCEMENT

SHEET NUMBER: TP-28
CONTRACT: 2021.07
391 OF 431

Date: 1/14/2021



Filename: 274_Island Type B Section.dgn

Scale: AS NOTED			
No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed	GLS 09\20	Checked	BRG 09\20
Drawn	ERB 09\20	In Charge of	RAL 09\20

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MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA
ISLAND TYPE B SECTIONS

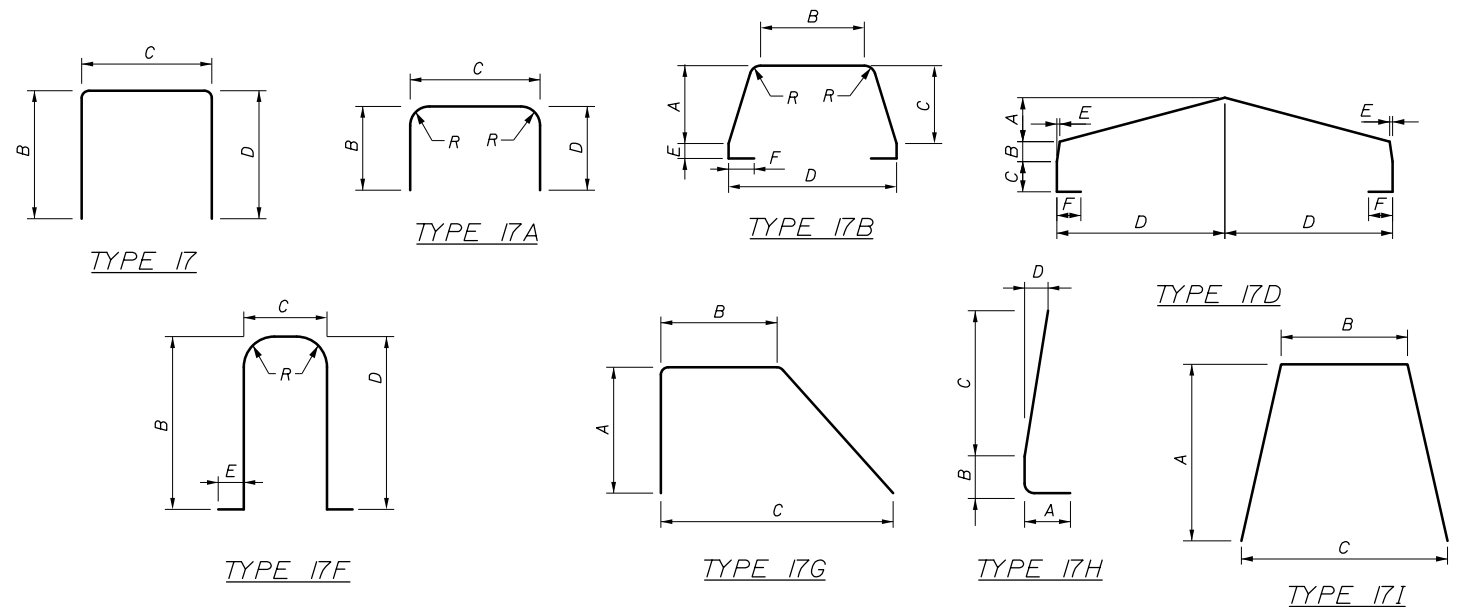
SHEET NUMBER: TP-29
CONTRACT: 2021.07
392 OF 431

Date: 1/14/2021

TOLL ISLAND TYPE B REINFORCING SCHEDULE

MARK	SIZE	NB NO.	SB NO.	LENGTH	TYPE	A	B	C	D	E	F	G	INCR.	REMARKS
ISLAND - SLAB														
B430	4	27	27	24' - 1"	STR									* FIELD BEND AS REQUIRED
B431	4	2	2	5' - 11 1/2"	17		0'-5 1/2"	5'-6"						
B432	4	1	1	2' - 3 1/4"	17		0-5 1/2"	1'-4 1/4"	0-5 1/2"					
B433	4	1	1	2' - 8 3/4"	17		0-5 1/2"	1'-9 3/4"	0-5 1/2"					
B434	4	1	1	3' - 5 3/4"	17		0-5 1/2"	2'-6 3/4"	0-5 1/2"					
B435	4	1	1	4' - 1 1/4"	17		0-5 1/2"	3'-1 1/4"	0-5 1/2"					
B436	4	1	1	4' - 6 1/2"	17		0-5 1/2"	3'-7 1/2"	0-5 1/2"					
B437	4	1	1	5' - 1 1/4"	17		0-5 1/2"	4'-1 1/4"	0-5 1/2"					
B438	4	1	1	5' - 5 1/2"	17		0-5 1/2"	4'-6 1/2"	0-5 1/2"					
B439	4	1	1	5' - 10 1/2"	17		0-5 1/2"	4'-11 1/2"	0-5 1/2"					
B440	4	1	1	6' - 3"	17		0-5 1/2"	5'-4"	0-5 1/2"					
B441	4	1	1	6' - 7 1/4"	17		0-5 1/2"	5'-8 1/4"	0-5 1/2"					
B442	4	1	1	6' - 11"	17		0-5 1/2"	6'-0"	0-5 1/2"					
B443	4	1	1	7' - 2 1/2"	17		0-5 1/2"	6'-3 1/2"	0-5 1/2"					
B444	4	1	1	7' - 5 1/2"	17		0-5 1/2"	6'-6 1/2"	0-5 1/2"					
B445	4	1	1	7' - 8"	17		0-5 1/2"	6'-9"	0-5 1/2"					
B446	4	1	1	7' - 9 1/4"	17		0-5 1/2"	6'-10 1/4"	0-5 1/2"					
B447	4	1	1	8' - 0"	17		0-5 1/2"	7'-1"	0-5 1/2"					
B448	4	1	1	8' - 1 1/4"	17		0-5 1/2"	7'-2 1/4"	0-5 1/2"					
B449	4	1	1	8' - 2 1/4"	17		0-5 1/2"	7'-3 1/4"	0-5 1/2"					
B450	4	1	1	8' - 2 3/4"	17		0-5 1/2"	7'-3 3/4"	0-5 1/2"					
B451	4	54	54	8' - 3"	17		0-5 1/2"	7'-4"	0-5 1/2"					

MARK	SIZE	NB NO.	SB NO.	LENGTH	TYPE	A	B	C	D	E	F	G	INCR.	REMARKS
ISLAND - FRONT BUMPER BLOCK														
BP428	4	2	2	10' - 8"	17D	11"	5"	7 1/2"	3'-6"	3/4"	8"			
BP429	4	2	2	10' - 1 1/4"	17D	10 1/4"	4 3/4"	7 1/2"	3'-3"	3/4"	8"			
BP430	4	1	1	9' - 6 3/4"	17D	9 1/2"	4 1/4"	7 1/2"	3'-1 1/4"	3/4"	8"			
BP431	4	1	1	9' - 0"	17D	8 3/4"	4"	7 1/2"	2'-9 1/4"	1/2"	8"			
BP432	4	1	1	8' - 5 1/2"	17D	8	3 3/4"	7 1/2"	2'-6 1/2"	1/2"	8"			
BP433	4	1	1	7' - 11"	17D	7 1/4"	3 1/2"	7 1/2"	2'-3 1/2"	1/2"	8"			
BP434	4	1	1	7' - 4 1/4"	17D	6 1/2"	3"	7 1/2"	2'-3 3/4"	1/2"	8"			
BP435	4	1	1	6' - 9 3/4"	17D	5 3/4"	2 3/4"	7 1/2"	1'-9 3/4"	1/2"	8"			
BP436	4	1	1	6' - 3"	17D	5"	2 1/2"	7 1/2"	1'-7"	1/4"	8"			
BP437	4	1	1	5' - 8 1/2"	17D	4 1/4"	2"	7 1/2"	1'-4"	1/4"	8"			
BP438	4	1	1	5' - 1 3/4"	17D	3 1/2"	1 3/4"	7 1/2"	1'-1 1/4"	1/4"	8"			
BP439	4	1	1	4' - 7 1/4"	17D	2 3/4"	1 1/2"	7 1/2"	10 1/4"	1/4"	8"			
BP440	4	1	1	4' - 0 3/4"	17D	2"	1 1/4"	7 1/2"	7 1/2"	1/4"	8"			
BP441	4	1	1	3' - 6"	17D	1 1/4"	3/4"	7 1/2"	4 1/2"	0"	8"			
BP442	4	1	1	3' - 2"	17D	1 1/4"	3/4"	7 1/2"	4 1/2"	0"	8"			
BP443	4	1	1	16' - 5"	STR									
BP444	4	2	2	14' - 4"	STR									
BP445	4	2	2	11' - 2"	STR									
BP446	4	2	2	16' - 8"	STR									* FIELD BEND AS REQUIRED
BP447	4	7	7	10' - 3 1/2"	17F		3'-5"	2'-2"	3'-5"	8"				R=5 1/2" (INSIDE RADIUS)
BP448	4	3	3	14' - 7 1/2"	17B	3'-3"	5'-0"	3'-3"	7'-0"	8"				R=5 1/2" (INSIDE RADIUS)
BP449	4	6	6	10' - 2 1/2"	17A		4'-6"	2'-2"	4'-6"					R=9 1/2" (INSIDE RADIUS)



Filename: 275_Island Type B Reinforcing Schedule.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	GLS	09\20	Checked	BRG	09\20
Drawn	ERB	09\20	In Charge of	RAL	09\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 ENTRY TOLL PLAZA
 ISLAND TYPE B REINFORCING SCHEDULE

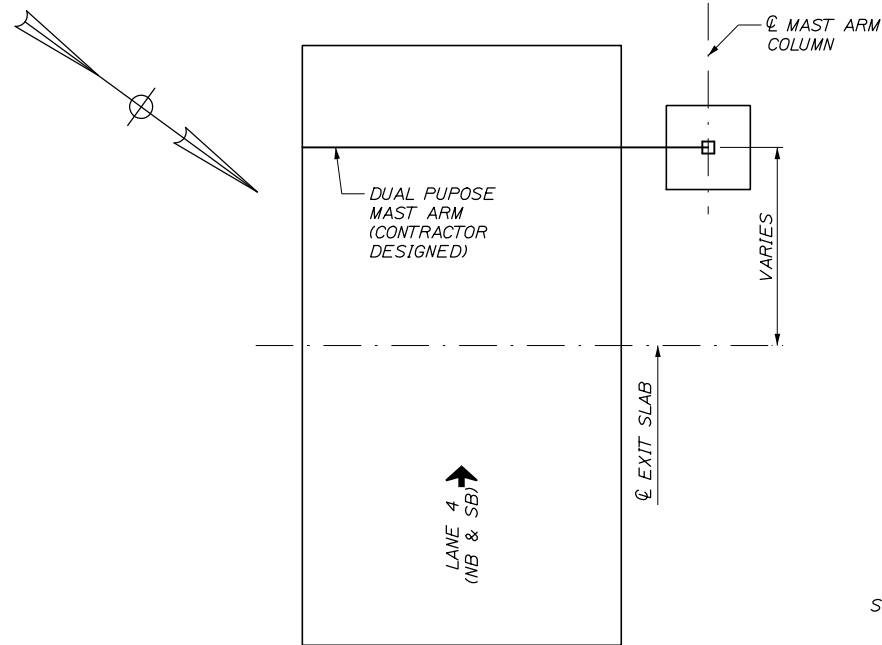
SHEET NUMBER: TP-30

CONTRACT: 2021.07

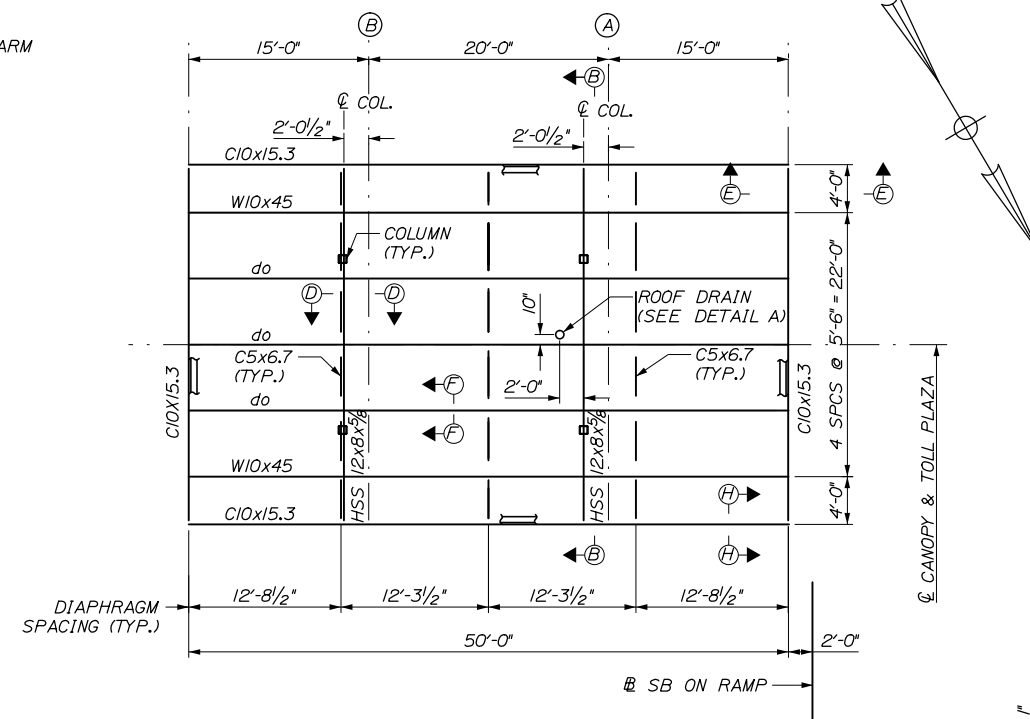
393 OF 431

Date: 1/14/2021

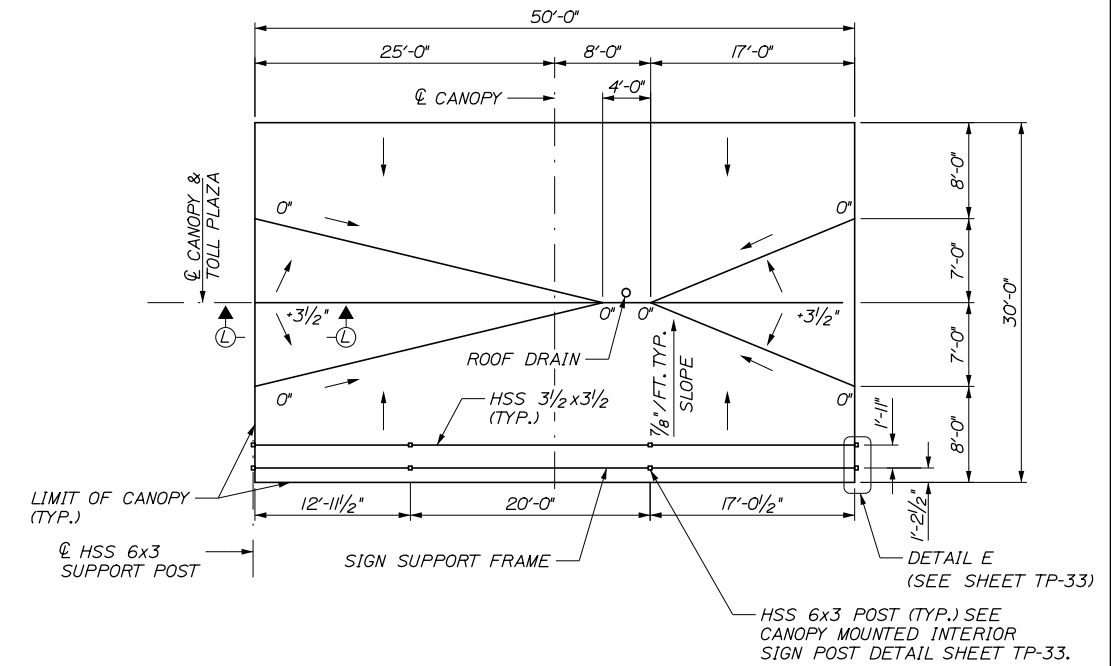
Filename: 276_Canopy Framing and Details.dgn



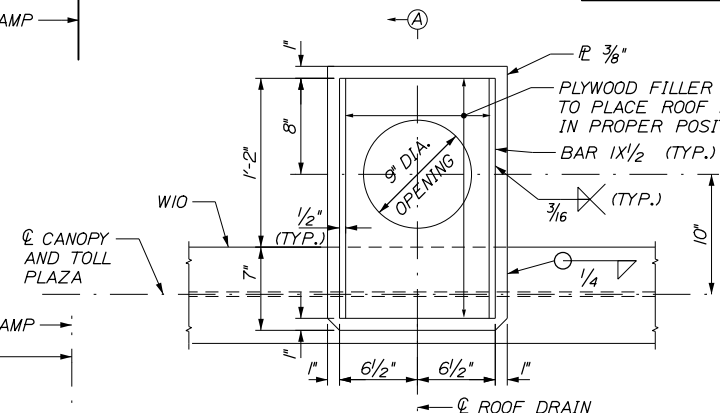
PLAN - EXIT SLAB
SCALE: 1/8" = 1'-0"



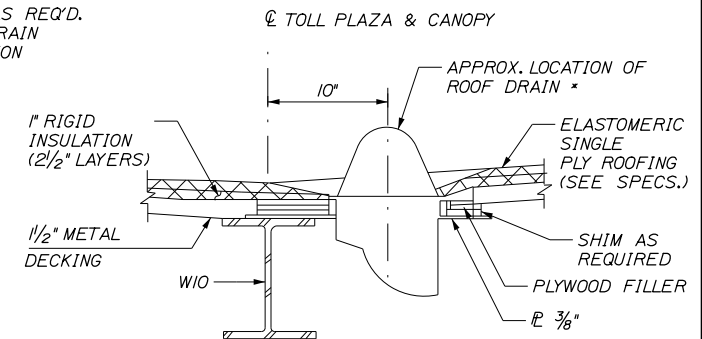
PLAN - ENTRY PLAZA
SCALE: 1/8" = 1'-0"



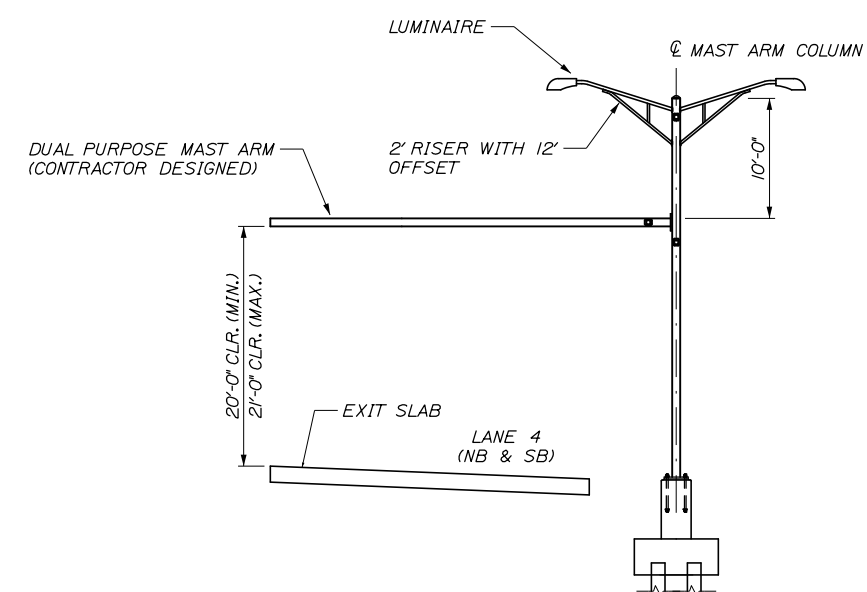
CANOPY CRICKET AND SIGN SUPPORT DETAIL
SCALE: 1/8" = 1'-0"



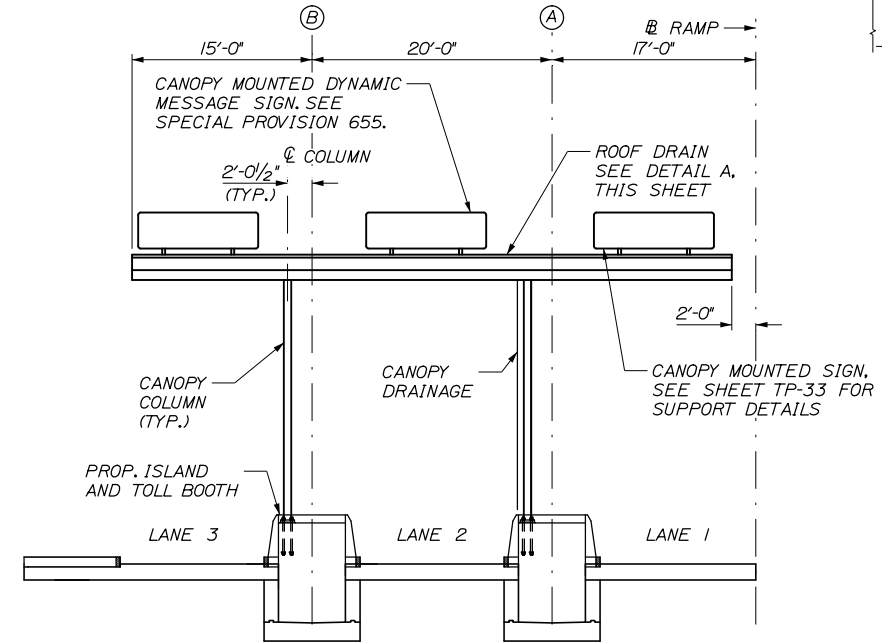
DETAIL A
1/2" = 1'-0"



SECTION A-A
1/2" = 1'-0"



ELEVATION - EXIT SLAB
SCALE: 1/8" = 1'-0"



ELEVATION - ENTRY PLAZA
SCALE: 1/8" = 1'-0"

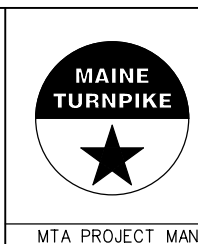
NOTES:

1. SOUTHBOUND CANOPY AND MAST ARM SHOWN, NORTHBOUND SIMILAR.
2. FOR SECTIONS B-B, D-D, E-E, F-F, AND H-H SEE SHEET TP-32.
3. BOLTED CONNECTIONS BETWEEN STEEL ELEMENTS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS. MINIMUM BOLT SIZE SHALL BE 3/4" IN STANDARD HOLES, UNLESS NOTED OTHERWISE.
4. WELDED CONNECTIONS BETWEEN STEEL ELEMENTS SHALL BE MADE WITH WELD MATERIAL CONFORMING TO E70XX. MINIMUM WELD SIZE SHALL BE 1/4" UNLESS NOTED OTHERS.
5. METAL ROOF DECK SHALL CONFORM TO ASTM A653, STRUCTURAL GRADE 33, AND SHALL HAVE ZINC COATED FINISH OF G-90 OR BETTER. ROOF DECKING SHALL BE ATTACHED TO CANOPY USING MECHANICAL FASTENERS. ROOF DECKING SHALL HAVE A MINIMUM GAGE OF 18 WITH THE FOLLOWING MINIMUM CROSS SECTIONAL PROPERTIES:
IP = 0.289 in4/ft SP = 0.318 in3/ft
IN = 0.295 in4/ft SN = 0.327 in3/ft
6. PROPOSED CANOPY DRAINAGE PIPES AND CONNECTIONS WILL BE INCIDENTAL TO RELATED 504 TOLL PLAZA CANOPY ITEMS.
7. THE CONTRACTOR SHALL FIT ALL ENDS OF CANOPY SIGN SUPPORTS OPEN TO THE WEATHER WITH AN APPROPRIATE CAST ALUMINUM OR GALVANIZED CAST IRON CAP SECURED IN PLACE WITH SET SCREWS. (TYP.)

Scale:				Designed by:			
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No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	GLS 09\20	Checked	BRG 09\20
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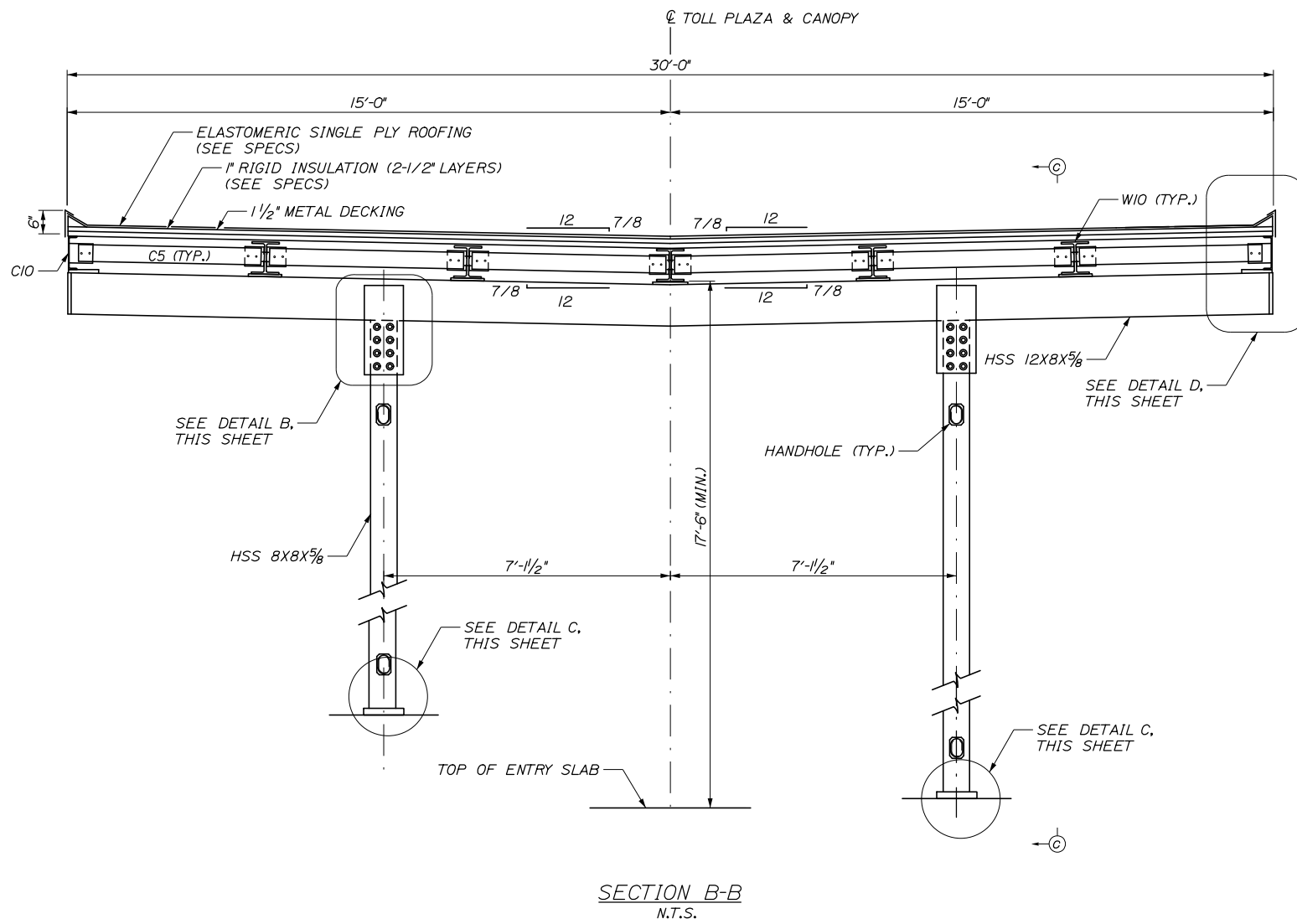


MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

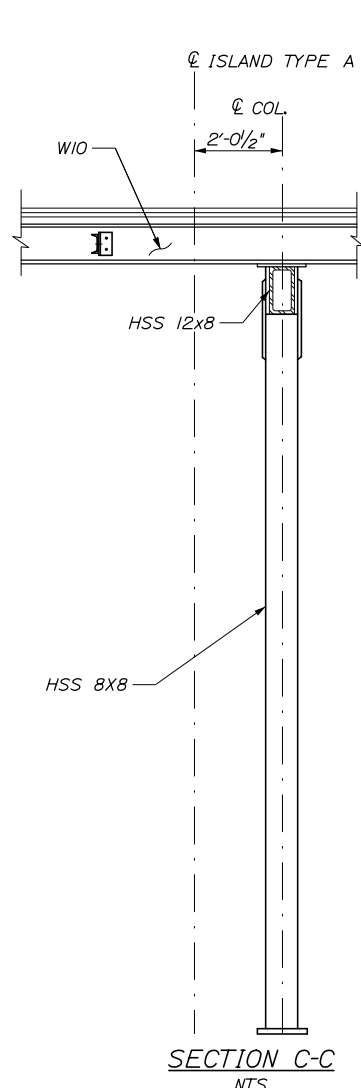
EXIT 45
INTERCHANGE RECONFIGURATION
ENTRY TOLL PLAZA CANOPY
AND MAST ARM FRAMING AND DETAILS
SHEET NUMBER: TP-31
CONTRACT: 2021.07
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Date: 1/14/2021

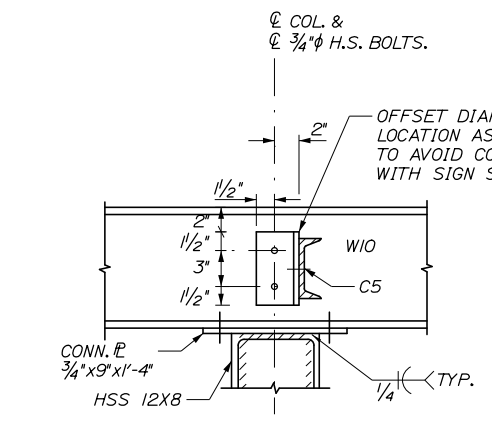
Filename: 277_Canopy Sections and Details.dgn



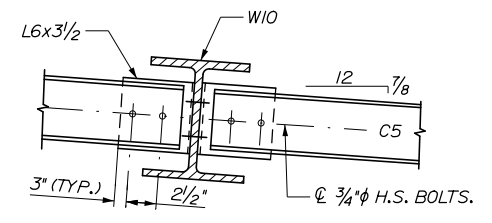
SECTION B-B
N.T.S.



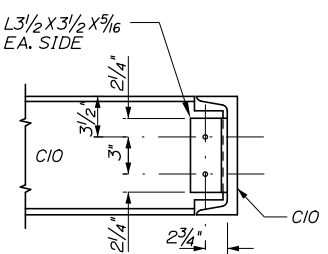
SECTION C-C
N.T.S.



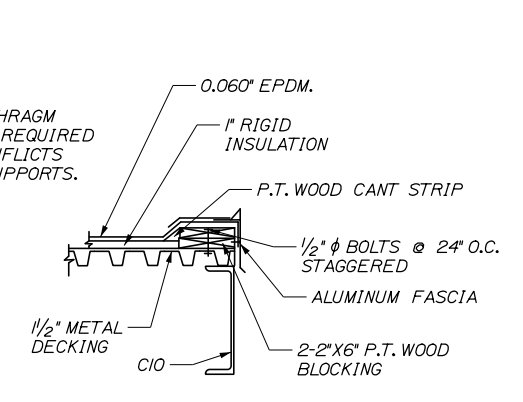
SECTION D-D
N.T.S.



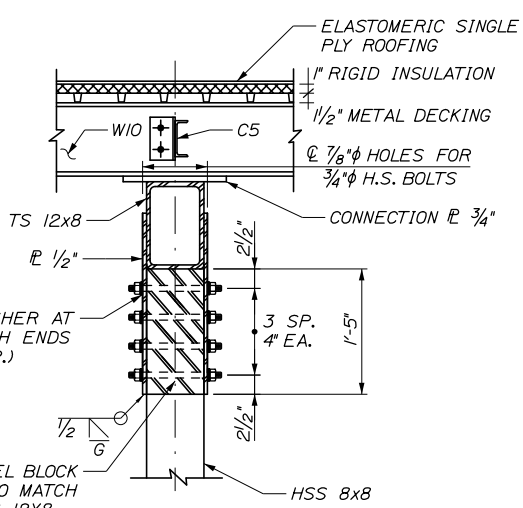
SECTION F-F
N.T.S.



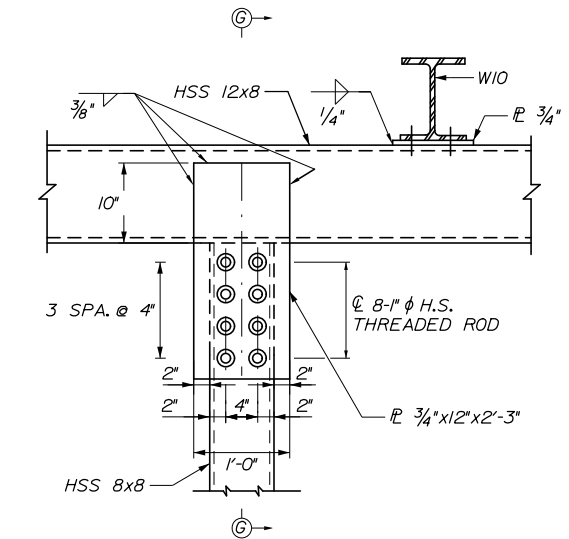
SECTION H-H
N.T.S.



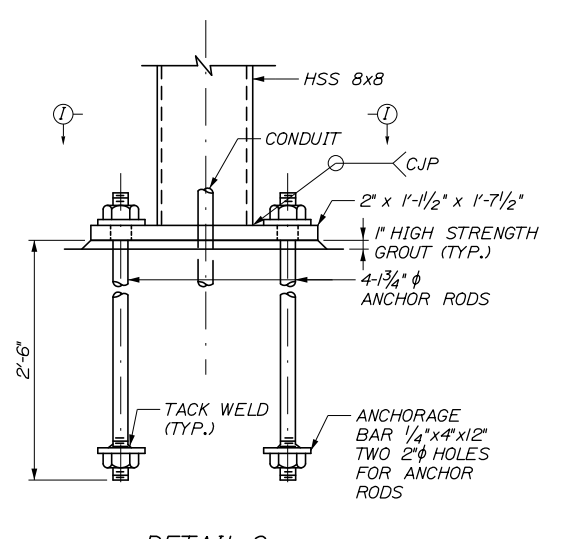
SECTION E-E
N.T.S.



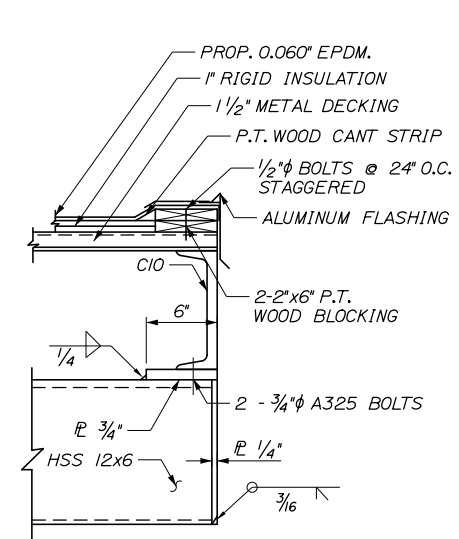
SECTION G-G
N.T.S.



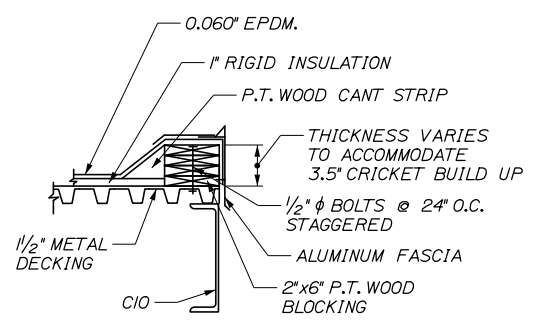
DETAIL B
1"=1'-0"



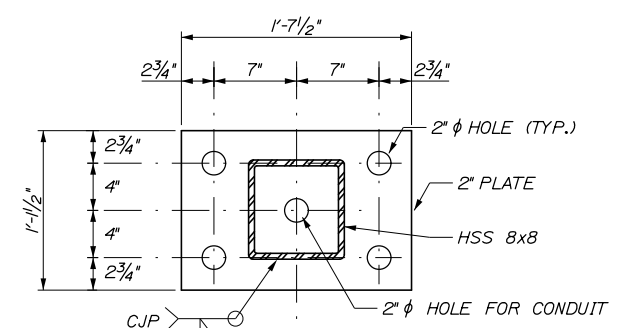
DETAIL C
1 1/2"=1'-0"



DETAIL D
N.T.S.



SECTION L-L
N.T.S.



SECTION I-I
N.T.S.

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No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	GLS 09\20	Checked	BRG 09\20
				Drawn	ERB 09\20	In Charge of	RAL 09\20

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MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.			

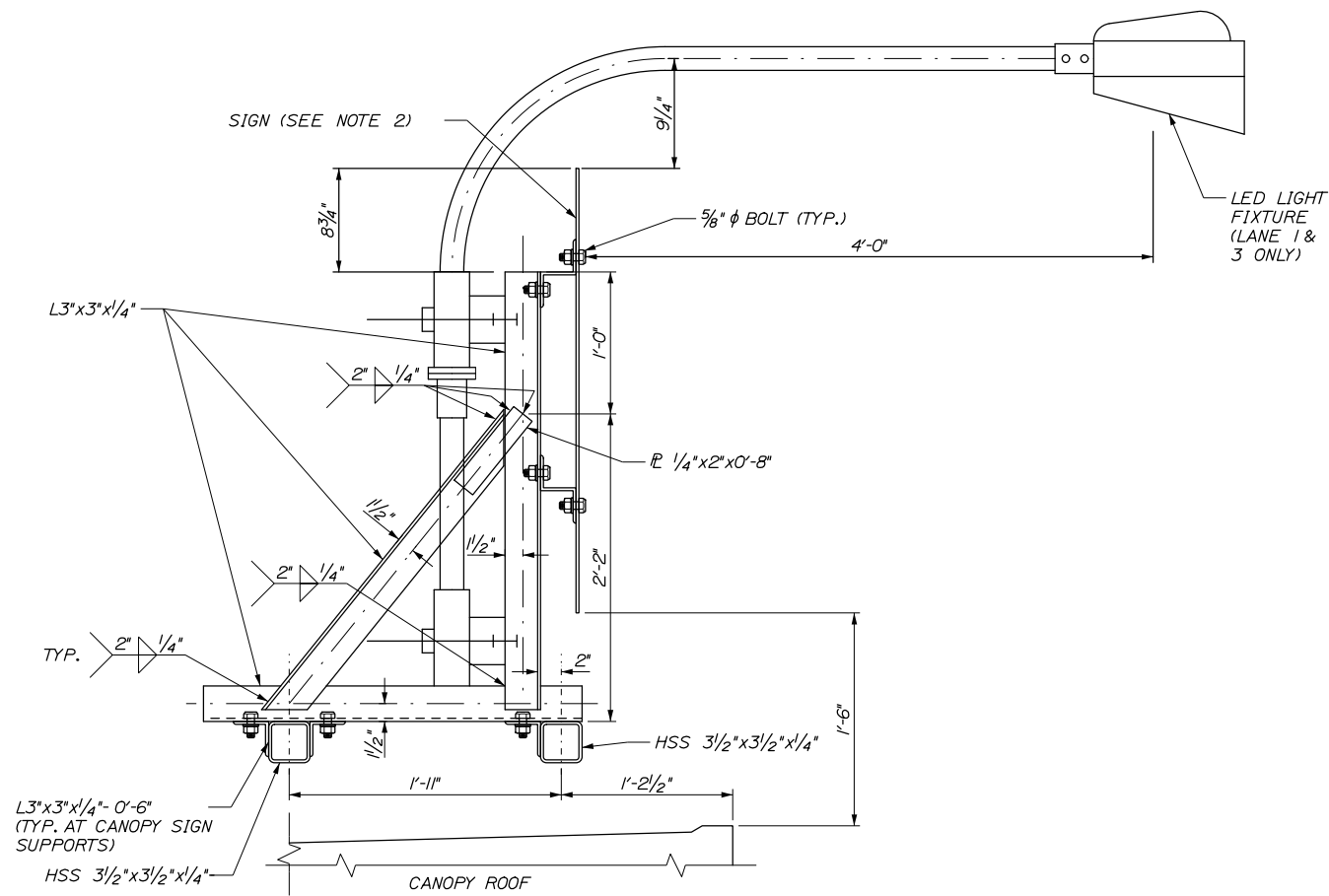
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**THE GOLD STAR
MEMORIAL HIGHWAY**

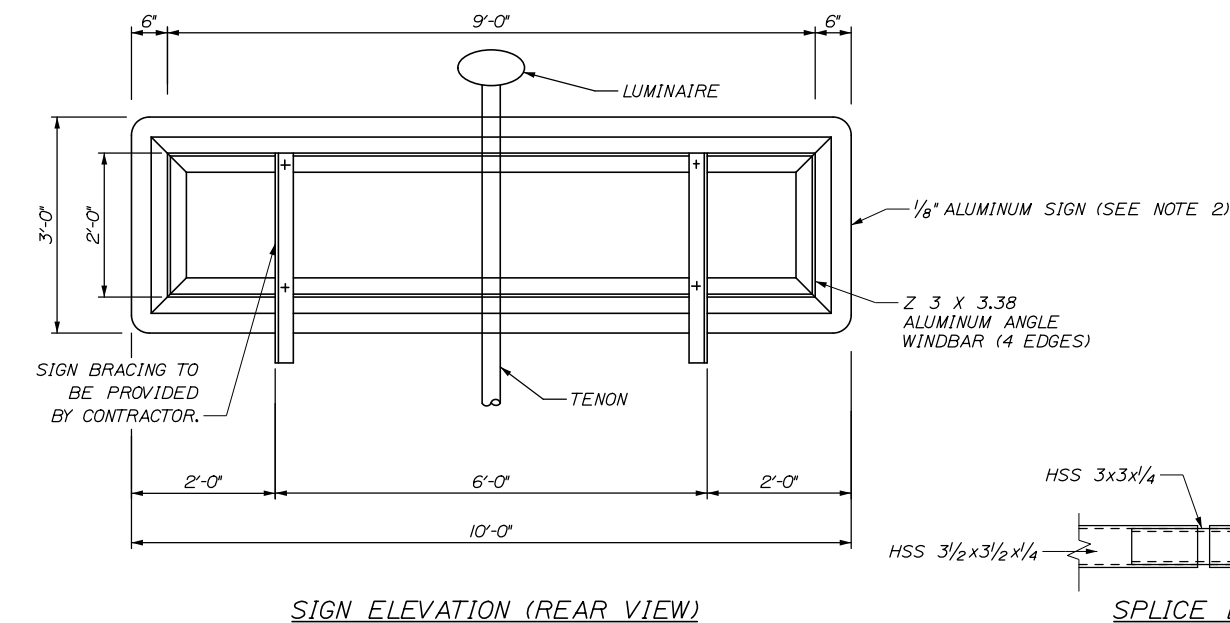
EXIT 45
 INTERCHANGE RECONFIGURATION
 ENTRY TOLL PLAZA
 CANOPY SECTIONS AND DETAILS
 SHEET NUMBER: TP-32
 CONTRACT: 2021.07
 395 OF 431

Date: 1/14/2021

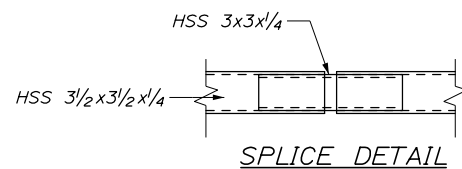
Filename: 278_Sign_Support_Details.dgn



CANOPY MOUNTED SIGN SUPPORT
1/2" = 1'-0"

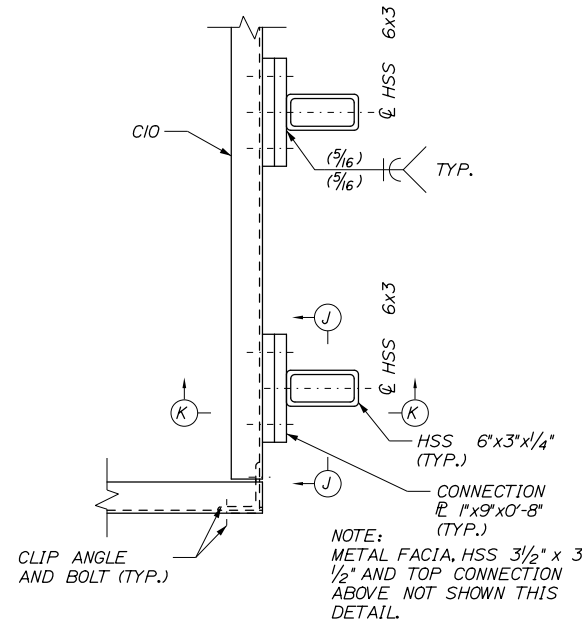


SIGN ELEVATION (REAR VIEW)
NTS



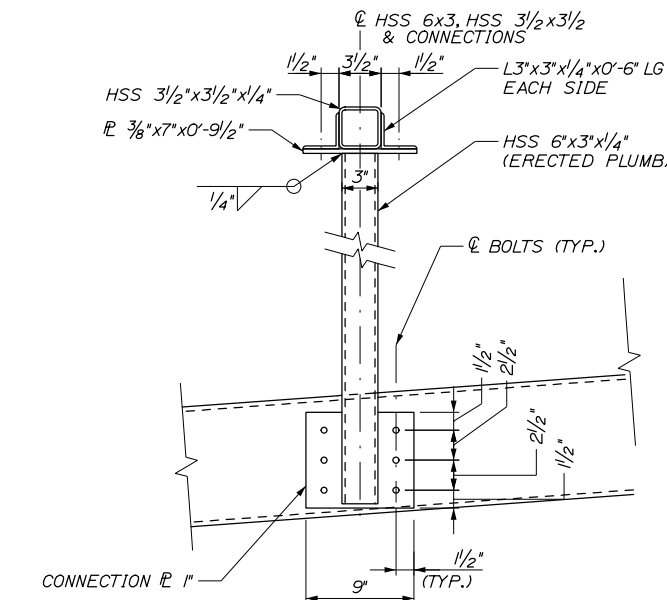
SPlice DETAIL
1/2" = 1'-0"

NOTE:
SPlices SHALL BE LOCATED OVER
THE CENTERLINE OF THE ISLAND.

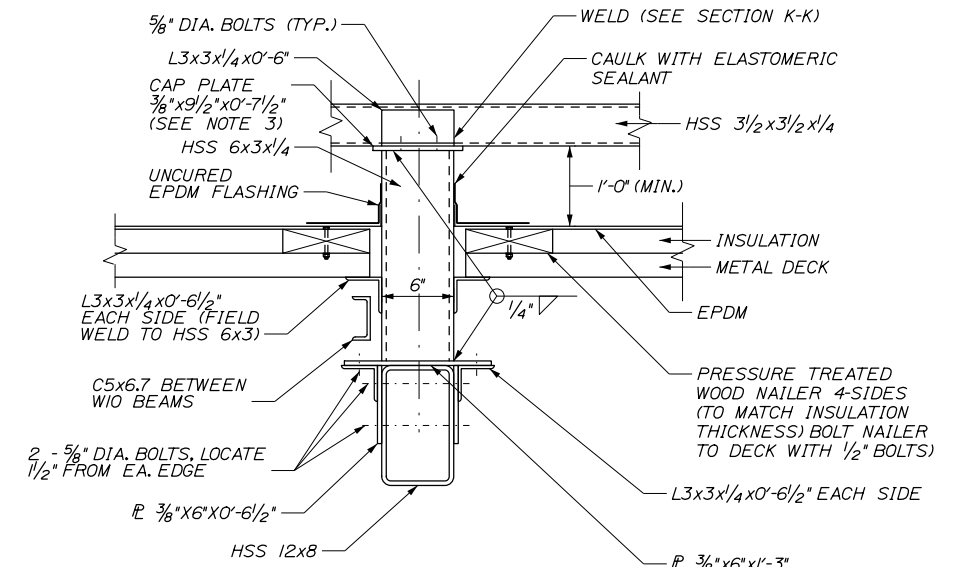


DETAIL E
1/2" = 1'-0"

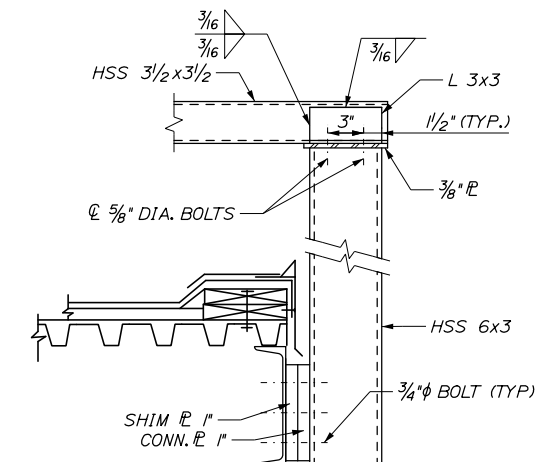
NOTE:
METAL FACIA, HSS 3/2" x 3
1/2" AND TOP CONNECTION
ABOVE NOT SHOWN THIS
DETAIL.



SECTION J-J
1/2" = 1'-0"



CANOPY MOUNTED INTERIOR SIGN POST
1/2" = 1'-0"



SECTION K-K
N.T.S.

NOTES:

1. CONTRACTOR TO SUBMIT FLASHING DETAILS FOR REVIEW PRIOR TO CONSTRUCTION.
2. SIGNS FOR LANES 1 AND 3 WILL BE EXTRUDED ALUMINUM. THE SIGN FOR LANE 2 SHALL BE A DYNAMIC MESSAGE SIGN. ALL SIGNS SHALL BE PROVIDED BY THE CONTRACTOR WITH THE EXCEPTION OF THE EZ PASS ONLY SIGN, WHICH WILL BE PROVIDED BY THE AUTHORITY.
3. WHERE HSS 3/2"x3/2" BEAMS REQUIRE SPLICING ALL SPLICES SHALL BE CENTERED OVER INTERIOR POST LOCATIONS. CAP PLATES SHALL BE INCREASED TO 3/8"x9/2"x1'-1" AND A TOTAL OF FOUR CONNECTION ANGLES SHALL BE USED.
4. LED LIGHT FIXTURE SHALL BE INCIDENTAL TO PAY ITEM 645.14 AND 645.141. SEE SP 645 CANOPY MOUNTED SIGN FOR MORE INFORMATION.

Scale:				Designed by:			
AS NOTED							
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				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	GLS 09\20	Checked	BRG 09\20
				Drawn	ERB 09\20	In Charge of	RAL 09\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

**EXIT 45
INTERCHANGE RECONFIGURATION**

**ENTRY TOLL PLAZA
SIGN SUPPORT DETAIL**

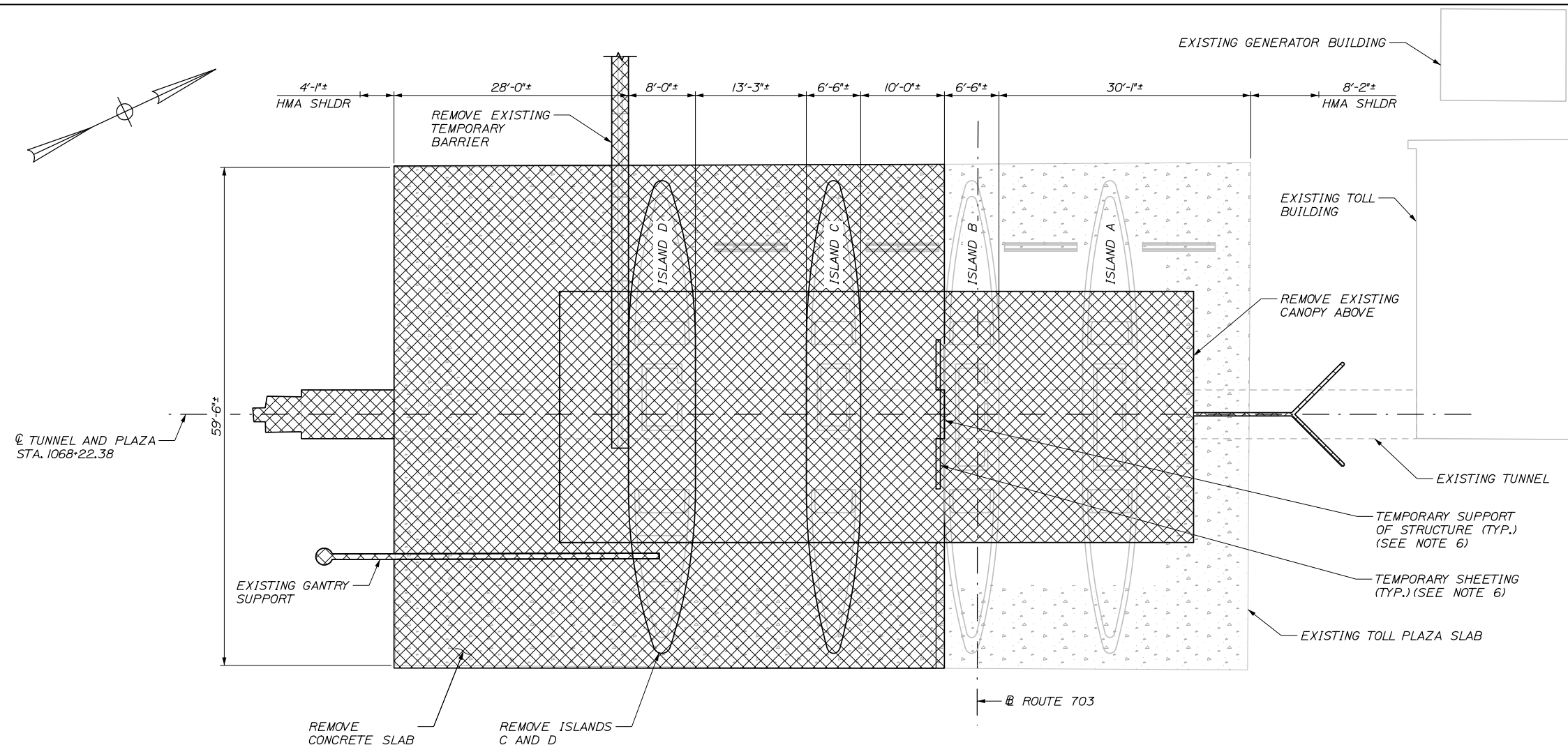
SHEET NUMBER: TP-33

CONTRACT: 2021.07

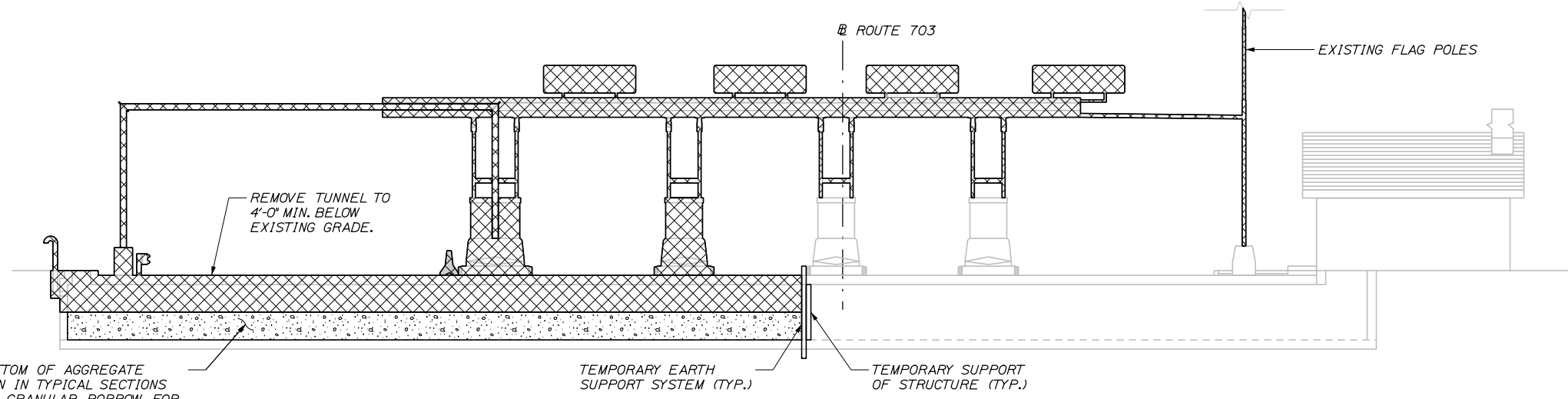
396 OF 431

Date: 1/14/2021

Filename: 279_Existing TollBooth Demolition Phase 1.dgn



PLAN
(LOOKING WESTWARD)
1/8" = 1'-0"



ELEVATION
1/8" = 1'-0"

NOTES:

1. CONTRACTOR SHALL DEMOLISH THE FOLLOWING:
TOLL CANOPY;
TOLL GANTRY;
TOLL BOOTHS;
GRANITE CURB AROUND TOLL ISLAND;
TOLL ISLANDS;
STRUCTURAL SLAB;
CONCRETE TUNNEL;
ALL MECHANICAL AND ELECTRICAL SYSTEMS IN THE TUNNEL,
TOLL BOOTHS AND GANTRY;
EXISTING FLAG POLE;
TOLL BUILDING
DEMOLITION SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION SECTION 800.
2. DEMOLITION OF THE TOLL BOOTHS, CANOPY, GANTRY, AND FLAG POLL SHALL BE PAID UNDER PAY ITEM 800.30 TOLL PLAZA BOOTHS, CANOPY, AND GANTRY DEMOLITION. DEMOLITION OF THE TOLL SLAB, TUNNEL, AND ISLANDS SHALL BE PAID FOR UNDER PAY ITEM 202.121 REMOVING EXISTING CONCRETE. DEMOLITION OF THE TOLL BUILDING AND GENERATOR BUILDING SHALL BE PAID FOR UNDER PAY ITEM 202.081 REMOVING BUILDING.
3. SEE SPECIAL PROVISIONS AND GENERAL NOTES FOR ITEMS TO SALVAGE.
4. BEFORE BEGINNING PLAZA DEMOLITION THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN TO THE RESIDENT FOR APPROVAL.
5. REMOVAL OF LOOPS, CONDUIT, AND ASSOCIATED WIRING IN EXISTING CONCRETE SHALL BE INCIDENTAL TO ITEM 202.17, REMOVING EXISTING STRUCTURAL CONCRETE.
6. CONTRACTOR SHALL BREAK OR CUT TUNNEL FLOOR TO PROVIDE A MINIMUM 1SF OPENING FOR EVERY 10 FT TUNNEL LENGTH TO ALLOW FOR DRAINAGE THROUGH THE FLOOR SLAB TO REMAIN.
7. SEE MOT PLANS FOR ADDITIONAL INFORMATION.
8. TEMPORARY EARTH SUPPORT FOR TUNNEL DEMOLITION SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 511 AND PAID UNDER ITEM 511.091 TEMPORARY STRUCTURAL SUPPORT.
9. TEMPORARY STRUCTURAL SUPPORT FOR TUNNEL DEMOLITION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 524 AND PAID UNDER ITEM 524.30 TEMPORARY STRUCTURAL SUPPORT.

LEGEND:



FILL TUNNEL TO BOTTOM OF AGGREGATE SUBBASE AS SHOWN IN TYPICAL SECTIONS (SHEET TS-03) WITH GRANULAR BORROW FOR UNDERWATER BACKFILL. PLACE GRAVELS AND PAVEMENT AS SHOWN IN TYPICAL SECTIONS.

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	GLS	09\20	
	Checked	BRG	09\20
	By	Date	
	ERB	09\20	
	In Charge of	RAL	09\20

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THE GOLD STAR
MEMORIAL HIGHWAY

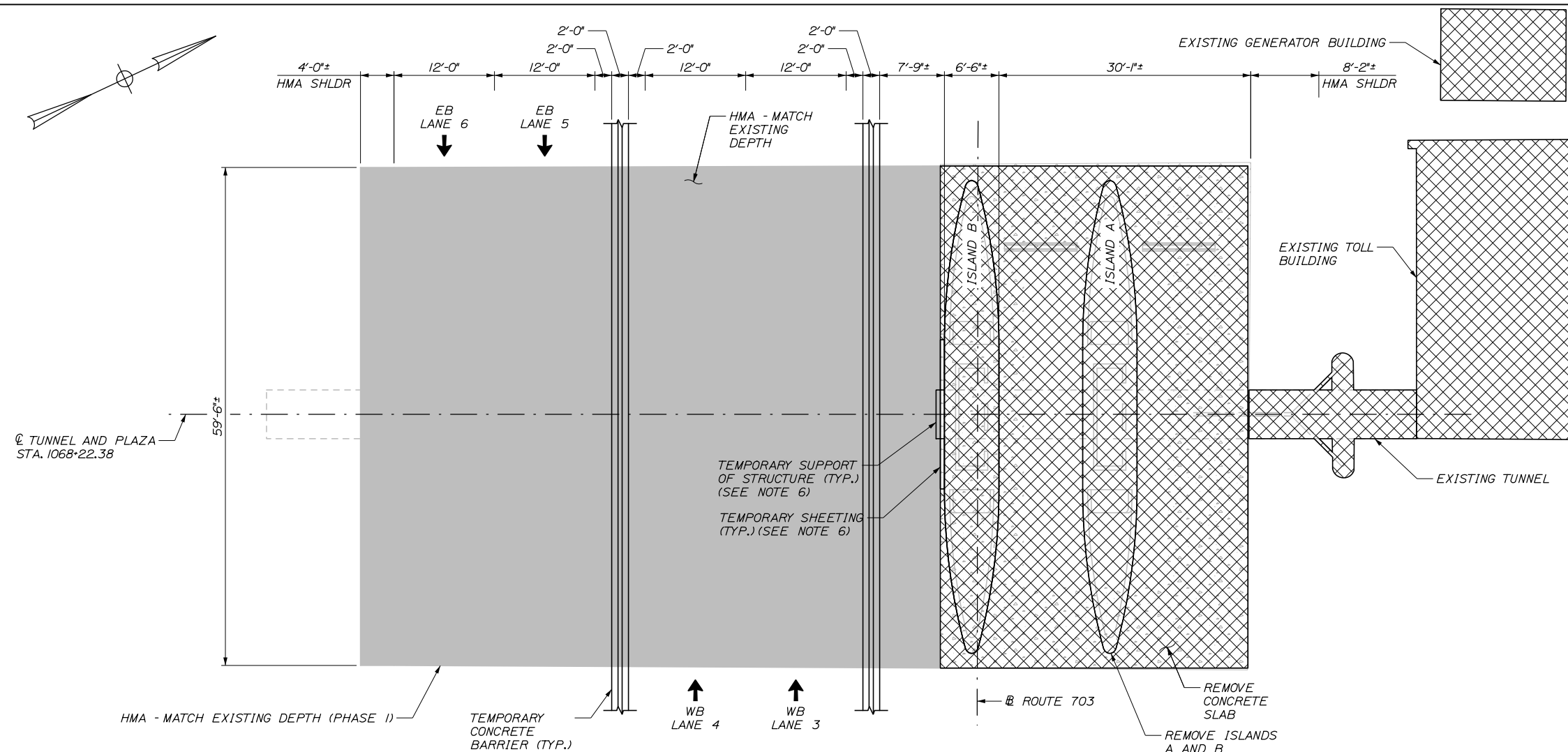
MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
EXISTING TOLL PLAZA DEMOLITION
PHASE 1

SHEET NUMBER: TP-34
CONTRACT: 2021.07
397 OF 431

Date: 1/14/2021

Filename: 280_Existing TollBooth Demolition Phase 2.dgn

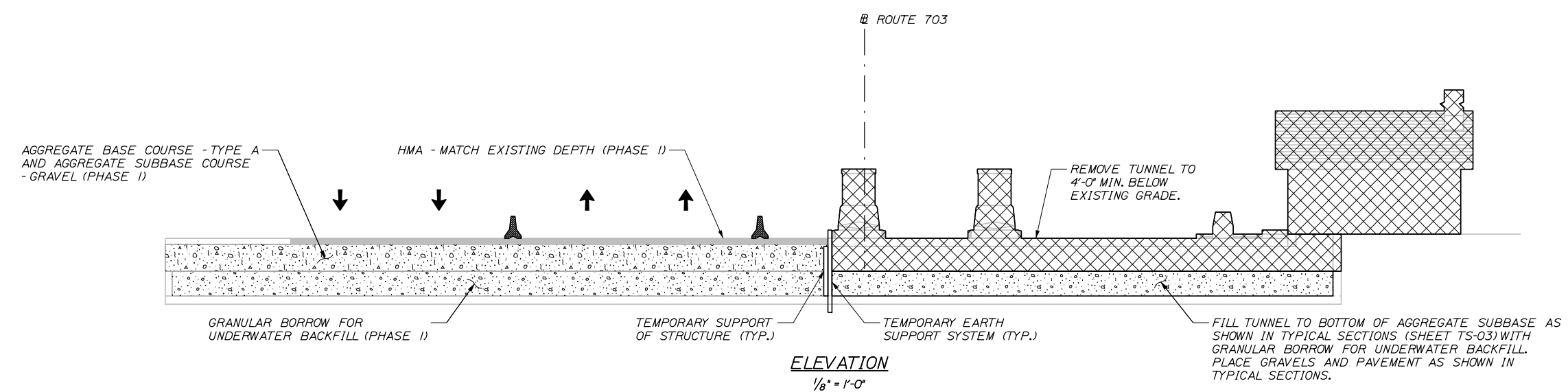


PLAN
(LOOKING WESTWARD)
1/8" = 1'-0"

NOTES:

- CONTRACTOR SHALL DEMOLISH THE FOLLOWING:
TOLL CANOPY;
TOLL GANTRY;
TOLL BOOTHS;
GRANITE CURB AROUND TOLL ISLAND;
TOLL ISLANDS;
STRUCTURAL SLAB;
CONCRETE TUNNEL;
ALL MECHANICAL AND ELECTRICAL SYSTEMS IN THE TUNNEL,
TOLL BOOTHS AND GANTRY;
EXISTING FLAG POLE;
TOLL BUILDING AND GENERATOR BUILDING
DEMOLITION SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION SECTION 800.
- DEMOLITION OF THE TOLL BOOTHS, CANOPY, GANTRY, AND FLAG POLL SHALL BE PAID UNDER PAY ITEM 800.30 TOLL PLAZA BOOTHS, CANOPY, AND GANTRY DEMOLITION. DEMOLITION OF THE TOLL SLAB, TUNNEL, AND ISLANDS SHALL BE PAID FOR UNDER PAY ITEM 202.121 REMOVING EXISTING CONCRETE. DEMOLITION OF THE TOLL BUILDING AND GENERATOR BUILDING SHALL BE PAID FOR UNDER PAY ITEM 202.081 REMOVING BUILDING.
- SEE SPECIAL PROVISIONS AND GENERAL NOTES FOR ITEMS TO SALVAGE.
- BEFORE BEGINNING PLAZA DEMOLITION THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN TO THE RESIDENT FOR APPROVAL.
- REMOVAL OF LOOPS, CONDUIT, AND ASSOCIATED WIRING IN EXISTING CONCRETE SHALL BE INCIDENTAL TO ITEM 202.17, REMOVING EXISTING STRUCTURAL CONCRETE.
- CONTRACTOR SHALL BREAK OR CUT TUNNEL FLOOR TO PROVIDE A MINIMUM 1SF OPENING FOR EVERY 10 FT TUNNEL LENGTH TO ALLOW FOR DRAINAGE THROUGH THE FLOOR SLAB TO REMAIN.
- SEE MOT PLANS FOR ADDITIONAL INFORMATION.
- TEMPORARY EARTH SUPPORT FOR TUNNEL DEMOLITION SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 511 AND PAID UNDER ITEM 511.091 TEMPORARY STRUCTURAL SUPPORT.
- TEMPORARY STRUCTURAL SUPPORT FOR TUNNEL DEMOLITION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 524 AND PAID UNDER ITEM 524.30 TEMPORARY STRUCTURAL SUPPORT.

LEGEND:



ELEVATION
1/8" = 1'-0"

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No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
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				Drawn	ERB 09\20	In Charge of	RAL 09\20

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MAINE
TURNPIKE

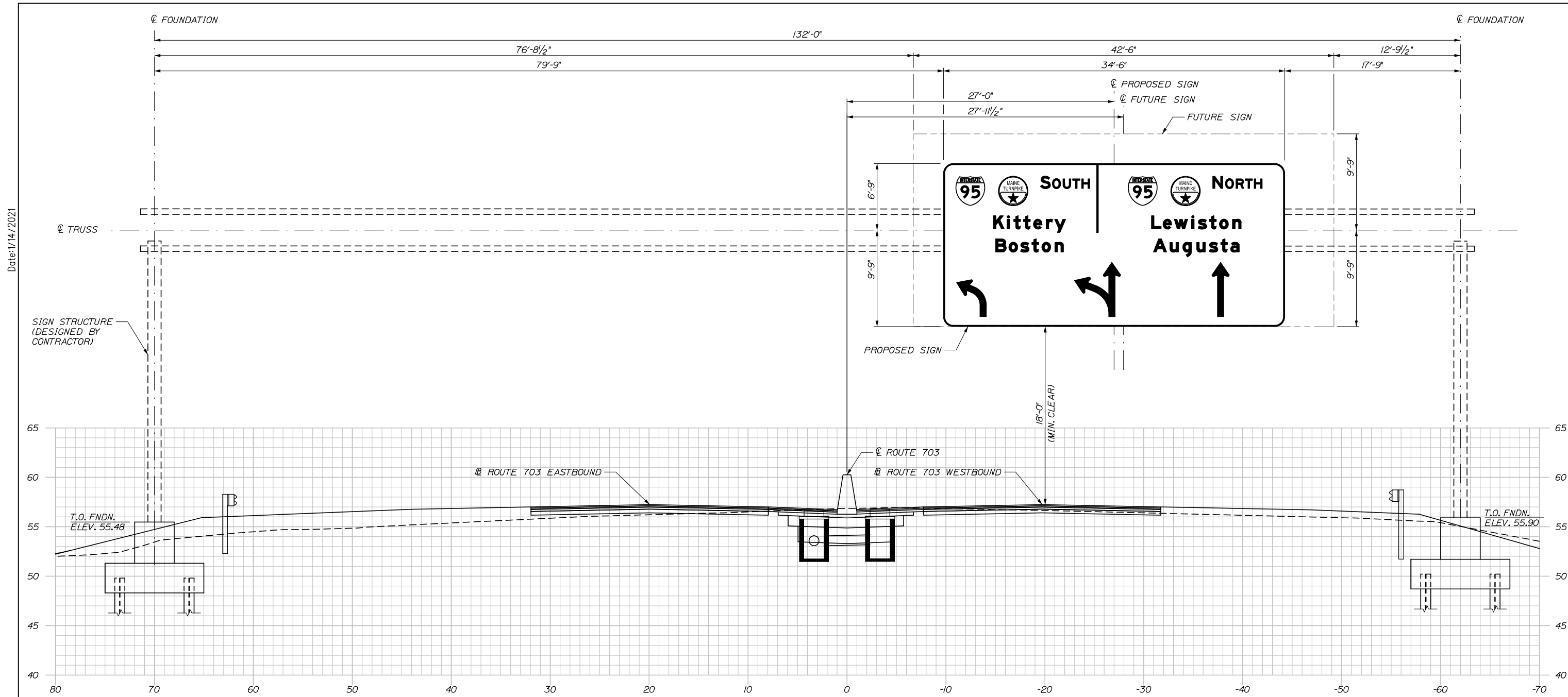
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
EXISTING TOLL PLAZA DEMOLITION
PHASE 2

SHEET NUMBER: TP-35
CONTRACT: 2021.07
398 OF 431

Date: 1/14/2021



STA. 1062+50
 OHSS I-95 ROUTE 703
 (LOOKING DOWNSTATION)
 SCALE = 1" = 5'-0"

NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE EXISTING ROADWAY, MEDIAN AND FOUNDATION LOCATIONS TO VERIFY ELEVATIONS BEFORE DEVELOPING STRUCTURAL SHOP DRAWINGS FOR FABRICATION AND CONSTRUCTING THE FOOTING. IF THE ACTUAL GROUND ELEVATIONS DIFFER MORE THAN 1'-0", THE ENGINEER SHALL BE CONTACTED TO VERIFY THE ADEQUACY OF THE FOOTING DESIGN.
- THE OVERHEAD SIGN STRUCTURE SHALL BE DESIGNED FOR A SIGN AREA EQUAL TO 1.5 TIMES THE WORST CASE OF THE PROPOSED OR FUTURE ACTUAL SIGN AREA AS SPECIFIED IN THE MAINEDOT STANDARD SPECIFICATIONS 645.023.
- CONTRACTOR SHALL DESIGN OVERHEAD SIGN STRUCTURE FOR BOTH THE PROPOSED AND FUTURE CONDITIONS. COLUMN LENGTHS SHALL BE SIZED TO ACHIEVE MINIMUM CLEARANCE FOR BOTH CONDITIONS.

Filename: 282_Overhead Sign Structure Elevation 1.dgn

Scale:			
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No.	Revision	By	Date

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HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

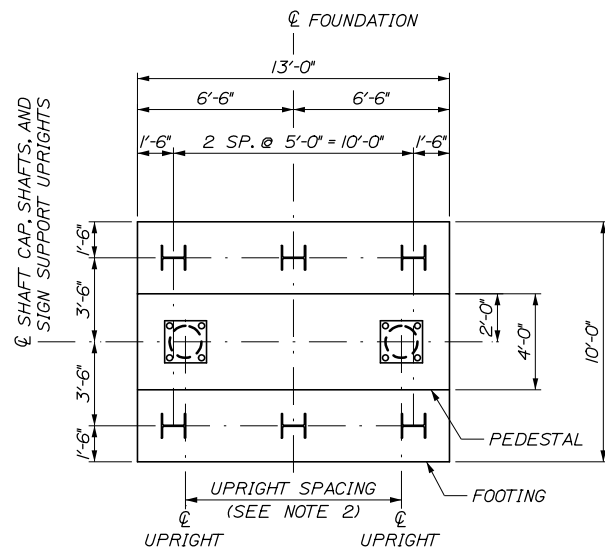
MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 OVERHEAD SIGN STRUCTURE I
 STA. 1062+50**

SHEET NUMBER: TP-36
 CONTRACT: 2021.07
 399 OF 431

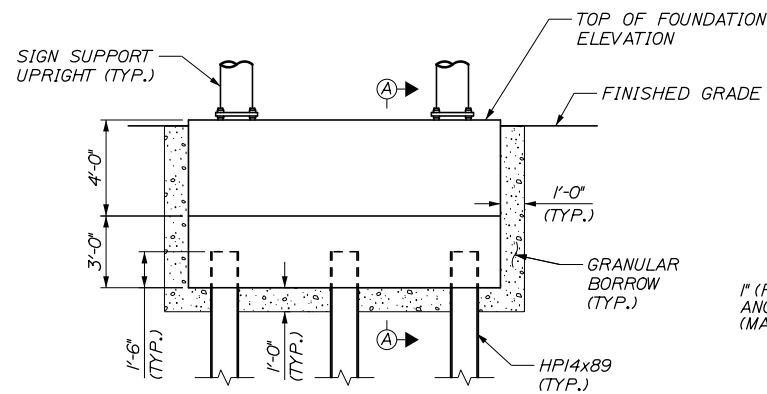
Date: 1/14/2021

Filename: 284_Overhead Sign Structure Foundation Details I.dgn



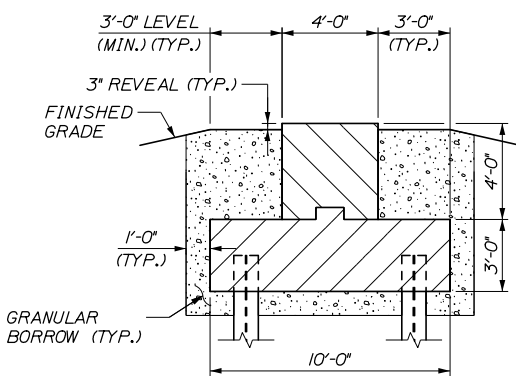
FOUNDATION - MASONRY PLAN

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



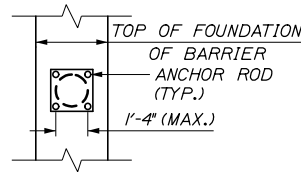
FOUNDATION - MASONRY ELEVATION

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



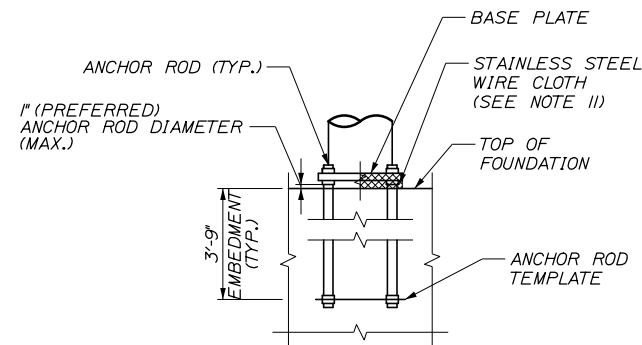
SECTION A-A

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



ASSUMED ANCHOR ROD PATTERN

NOT TO SCALE



ANCHOR ROD DETAIL

NOT TO SCALE

ASSUMED OVERHEAD SIGN STRUCTURE DESIGN CRITERIA

1. THESE FOUNDATIONS HAVE BEEN DESIGNED USING THE ASSUMED MAXIMUM TOP OF FOUNDATION LOADS SHOWN IN THE TABLE BELOW. THE LOADS FROM THE OVERHEAD SIGN STRUCTURE SHALL NOT EXCEED THE LOADS SHOWN.
2. THESE FOUNDATIONS HAVE BEEN DESIGNED USING AN ASSUMED OVERHEAD SIGN STRUCTURE UPRIGHT SPACING BETWEEN 6'-0" TO 9'-0". THE OVERHEAD SIGN STRUCTURE SHALL HAVE AN UPRIGHT SPACING BETWEEN 6'-0" TO 9'-0" UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. THESE FOUNDATIONS HAVE BEEN DESIGNED ASSUMING A 4 ANCHOR ROD PATTERN WITH AN ASSUMED MAXIMUM ROD SPACING OF 1'-6" AND AN ASSUMED ANCHOR ROD EMBEDMENT OF 3'-9", AS SHOWN BELOW. THE ANCHOR ROD SPACING SHALL NOT EXCEED 1'-6", NOR SHALL THE ANCHOR ROD EMBEDMENT BE LESS THAN 3'-9" AND ANCHOR RODS SHALL BE INSTALLED AS SHOWN IN THE ANCHOR ROD DETAIL.
4. IF CONTRACTOR DESIGNS SIGN STRUCTURE THAT DOES NOT MEET THE REQUIREMENTS STATED IN NOTES 1 THROUGH 3, THE ENGINEER SHALL BE NOTIFIED AND FOUNDATION DESIGN SHALL BE REEVALUATED.

LOAD TYPE		MAXIMUM TOP OF FOUNDATION LOADS	
		MM 1062+50	
		LEFT	RIGHT
AXIAL DEAD LOADS		100 K	100 K
HORIZONTAL FORCE	WIND NORMAL TO SIGNS	66 K	66 K
	WIND PARALLEL TO SIGNS	13 K	13 K
OVERTURNING MOMENT	WIND NORMAL TO SIGNS	1660 K-FT	1660 K-FT
	WIND PARALLEL TO SIGNS	580 K-FT	580 K-FT

FOUNDATION NOTES

1. ALL FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH MAINEDOT STANDARD SPECIFICATION 626 AND SHALL BE PAID UNDER 626.701 PAY ITEM.
2. OVERHEAD SIGN STRUCTURE COMPLETE AND IN PLACE ACCORDING TO THESE PLANS, SHALL BE PAID UNDER 645.123 ITEM.
3. ALL CONCRETE FOR THE FOOTING, PEDESTAL, AND BARRIER SHALL BE CLASS 'AA' OR 'AAA' CONCRETE (F'C = 4000PSI) AND SHALL CONFORM TO MTA SUPPLEMENTAL SPECIFICATION 502. ALL PORTIONS OF THE FOUNDATION ABOVE FINISH GRADE SHALL BE LIGHT COLORED AND HAVE A SMOOTH UNIFORM SURFACE FREE OF DEFECTS AND IRREGULARITIES. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1-INCH.
4. A CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES, CONFORMING TO SPECIAL PROVISION 515, SHALL BE APPLIED ON ALL CONCRETE SURFACES ABOVE FINISHED GRADE TO 1 FOOT BELOW FINISHED GRADE. COATING SHALL BE INCIDENTAL TO ITEM 626.701.
5. ALL REINFORCING STEEL SHALL BE AASHTO M31 (ASTM A615) GRADE 60, EPOXY COATED AND SHALL CONFORM TO MAINEDOT STANDARD SPECIFICATION 503. REINFORCING STEEL SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL. REINFORCING STEEL SHALL BE INCIDENTAL TO ITEM 626.701.
6. ALL BACKFILL SHALL BE GRANULAR BORROW MEETING THE REQUIREMENTS OF MAINEDOT STANDARD SPECIFICATION 203 AND SHALL BE INCIDENTAL TO ITEM 626.701.
7. STRUCTURAL EXCAVATION, BACKFILLING AND COMPACTION SHALL BE IN ACCORDANCE WITH MAINEDOT STANDARD SPECIFICATION 206 AND SHALL BE INCIDENTAL TO ITEM 626.701.
8. DESIGN OF COFFERDAMS OR SUPPORT OF EXCAVATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED FOR APPROVAL. ALL COSTS SHALL BE INCIDENTAL TO ITEM 626.701.
9. PAYMENT FOR REMOVAL AND RESTORATION OF GRASS AND VEGETATION DISTURBED BY THE CONSTRUCTION OF THE FOUNDATIONS SHALL BE INCIDENTAL TO ITEM 626.701. RESTORATION OF GRASS AND VEGETATION SHALL BE AS DIRECTED BY THE RESIDENT.
10. THE GAP BETWEEN THE BASE PLATE AND TOP OF FOUNDATION SHALL BE WRAPPED IN AWG #16 STAINLESS STEEL WIRE CLOTH, WITH A 1/4" MAXIMUM OPENING AND A 2" LAP. SECURE WITH 3/4" STAINLESS STEEL BANDING AFTER ANCHOR RODS ARE INSTALLED. ALL COSTS SHALL BE INCIDENTAL TO ITEM 626.701.

PILE NOTES

1. PILES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 501, FOUNDATION PILES AND PAID FOR UNDER RELATED 501 ITEMS.
2. THE MAXIMUM CALCULATED FACTORED AXIAL PILE LOADS ARE:
OHSS: 148 KIPS
3. PILES SHALL BE DRIVEN TO THE FOLLOWING NOMINAL DRIVING RESISTANCES:
OHSS: 228 KIPS
4. ESTIMATE OF PILES REQUIRED:
OHSS: 12 ~ HP 14x89 @ 80 FEET (MIN. TIP ELEVATION -15 FT)
5. ALL PILES SHALL BE EQUIPPED WITH A PILE TIP IN ACCORDANCE WITH STANDARD SPECIFICATIONS SUBSECTION 501.048, PREFABRICATED PILE TIPS.
6. THE CONTRACTOR SHALL PERFORM AND SUBMIT A WAVE EQUATION ANALYSIS FOR REVIEW AND ACCEPTANCE BY THE RESIDENT. THE MAXIMUM ALLOWABLE DRIVING STRESS IS 0.90 TIMES F_y. THE SUBMITTAL ANALYSES SHALL INCLUDE THE PROPOSED STOPPING CRITERIA BASED ON THE WAVE EQUATION ANALYSIS AND THE PROPOSED DRIVING SYSTEM. THE STOPPING CRITERIA SHALL INCLUDE THE BLOWS PER INCH AND THE NUMBER OF 1-IN. INTERVALS AT WHICH PILE INSTALLATION MAY BE TERMINATED. THE COST OF PERFORMING THE WAVE EQUATION ANALYSIS WILL BE CONSIDERED INCIDENTAL TO ITEM NO. 501.92, PILE DRIVING EQUIPMENT MOBILIZATION.
7. THE CONTRACTOR SHALL PERFORM 1 DYNAMIC LOAD TEST AT THE SOUTH FOUNDATION TO CONFIRM THE NOMINAL DRIVING RESISTANCE INDICATED IN NOTE 3 HAVE BEEN MET. THE DYNAMIC TESTS SHALL BE PERFORMED ON THE FIRST PRODUCTION PILE DRIVEN AT EACH SUBSTRUCTURE. MINIMUM 72 HOUR PILE RESTRIKES SHALL BE CONDUCTED ON ALL TEST PILES IN ORDER TO ENSURE THE REQUIRED NOMINAL RESISTANCE HAS BEEN ACHIEVED AND VERIFY PILE RELAXATION HAS NOT OCCURRED. THE CONTRACTOR MAY DRIVE PRODUCTION PILES TO THE PRELIMINARY DRIVING CRITERIA, HOWEVER PILE CUT-OFF WILL NOT BE PERMITTED UNTIL COMPLETION OF RESTRIKE TESTING AND ESTABLISHMENT OF FINAL DRIVING CRITERIA.
8. SEE SHEET TP-02 FOR NOTES ON H-PILE MATERIAL, SPLICING, AND MINIMUM TIP.

Scale:				Designed by:			
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No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	GLS 09\20	Checked	BRG 09\20
				Drawn	ERB 09\20	In Charge of	RAL 09\20

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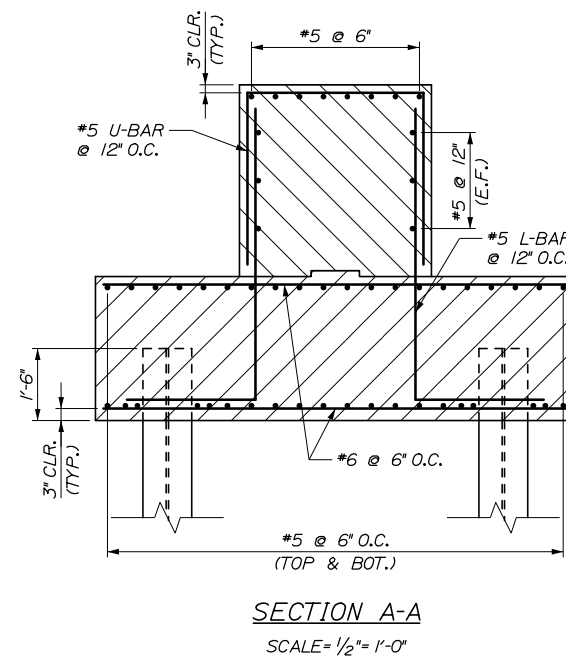
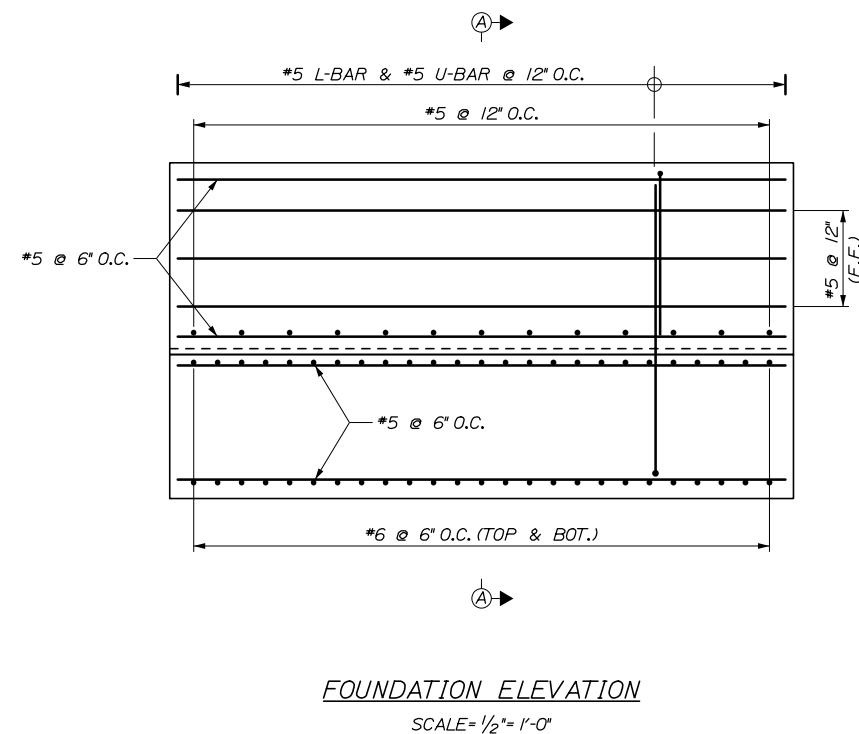
THE GOLD STAR MEMORIAL HIGHWAY	
MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.	

EXIT 45 INTERCHANGE RECONFIGURATION OVERHEAD SIGN STRUCTURE II STA. 1062+50	
SHEET NUMBER: TP-37	

CONTRACT: 2021.07	400 OF 431
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Date: 1/14/2021

Filename: 285_Overhead Sign Structure Foundation Details .ltdgn



NOTES

1. SEE OVERHEAD SIGN STRUCTURE II FOR TYPICAL FOUNDATION NOTES.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL REQUIRED DIMENSIONS AND QUANTITY OF EACH BAR.
3. ALL BAR BENDS AND DIMENSIONS SHALL BE PER CONCRETE REINFORCING STEEL INSTITUTE (CRSI) STANDARDS AND AS SHOWN IN THESE PLANS.
4. ADJUST LONGITUDINAL REINFORCING IN SHAFT CAP TO AVOID ANCHOR BOLTS AND SHAFT REINFORCING.

FOUNDATION REBAR BEND DIAGRAM		
DESCRIPTION	SIZE	TYPE
LONGITUDINAL (PEDESTAL)	#5	
TRANSVERSE (PEDESTAL)	#5	
LONGITUDINAL (FOOTING)	#5	
TRANSVERSE (FOOTING)	#6	
VERT. L-BAR	#5	
TOP U-BAR (VERTICAL)	#5	

#5 U-BAR

#5 L-BAR

Scale: AS NOTED			
No.	Revision	By	Date

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HNTB					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood IV, P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 OVERHEAD SIGN STRUCTURE III
 STA. 1062+50

SHEET NUMBER: TP-38
 CONTRACT: 2021.07
 401 OF 431

ABBREVIATIONS

#	AND	JT	JOINT
Z	ANGLE		
@	AT		
<	CENTER LINE		
~	DIAMETER OR ROUND	LAM	LAMINATE(D)
#	FOUND OR NUMBER	LAV	LAVATORY
ACOUS	ACOUSTICAL	MAX	MAXIMUM
A.C.T.	ACOUSTICAL CEILING TILE	MECH	MECHANICAL
A.F.F.	ABOVE FINISHED FLOOR	MEMB	MEMBER
ALUM	ALUMINUM	MTL	METAL
APPROX	APPROXIMATE	MFR	MANUFACTURER
ARCH	ARCHITECTURAL	MIN.	MINIMUM
		MISC.	MISCELLANEOUS
		MO	MASONRY OPENING
BD	BOARD	NIC	NOT IN CONTRACT
BFDF	BOTTLE FILL / DRINKING FOUNTAIN	NTS	NOT TO SCALE
BLDG	BUILDING		
BLKG	BLOCKING		
C.J.	CONTROL JOINT	O.C.	ON CENTER
CLG	CEILING	OD	OUTSIDE DIAMETER
CLO	CLOSET	OPG	OPENING
CLR	CLEAR	OPP	OPPOSITE
CMU	CONCRETE MASONRY UNIT	OVHD	OVERHEAD
CO	CASED OPENING		
CONC	CONCRETE	P.LAM	PLASTIC LAMINATE
CONSTR	CONSTRUCTION	PL	PLATE
CONT.	CONTINUOUS	PLYWD	PLYWOOD
CONTR	CONTRACTOR	PTD	PAINTED
CT	CERAMIC TILE		
CU. FT.	CUBIC FEET		
		R	RISER
		RAD	RADIUS
DET	DETAIL	REINF	REINFORCED
D.F.	DRINKING FOUNTAIN	REQ'D	REQUIRED
DIA	DIAMETER		
DIM	DIMENSION		
DISP	DISPENSER	SAT	SUSPENDED ACOUSTICAL
DN	DOWN		CEILING
DS	DOWNSPOUT	SAF.	SAFETY
DWG	DRAWING	SH	SHELF
		SHT(S)	SHEET (SHEETS)
EA	EACH	SIM	SIMILAR
EXP. JT.	EXPANSION JOINT	SPEC	SPECIFICATION
ELEC	ELECTRICAL	SS	STAINLESS STEEL
ELEV	ELEVATION	STOR	STORAGE
EP	ELECTRICAL PANEL	STD	STANDARD
EQ	EQUAL	STL	STEEL
EQPT	EQUIPMENT	STRUCT.	STRUCTURAL
EXIST.	EXISTING	SUSP	SUSPENDED
EXP.	EXPANSION		
EXT	EXTERIOR	TH	THICK
		TOC	TOP OF CURB
FD	FLOOR DRAIN	TOS	TOP OF SLAB
FE	FIRE EXTINGUISHER	TR	TREAD
FIN. FL.	FINISH FLOOR	TS	TUBE SHAPE
		TYP	TYPICAL
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
GWB	GYPSPUM WALL BOARD	VCT	VINYL COMPOSITION TILE
HGT	HEIGHT		
HM	HOLLOW METAL	W/	WITH
HP	HANDICAPPED	WC	WATER CLOSET
		WD	WOOD
ID	INSIDE DIMENSION		
INSUL	INSULATION, INSULATED		
INT	INTERIOR		

NFPA 101 LIFE SAFETY CODE - 2018 Edition

Building Classification: Business - (833 sf)
 Construction Type: V/000
 Hazard Classification: Ordinary Hazard
 Occupant Loads: 616 sf Office @ 150 sf/occ = 5 Occupants
 217 sf Storage @ 500 sf/occ = 1 Occupant
 Total Occupant Load = 6 Occupants
 1 hour if over 100 sf
 7'-6" at occupied areas

Building Uses Business
 Max. Allowable Travel Distance: 200'
 Max. Allowable Common Path: 110' (under 30 occupants)
 Max. Dead End Corridor Length: 20'
 Minimum Egress Corridor Width: 36" (under 50 occupants)
 Minimum Number of Required Exits: 2
 Minimum Exit Access Corridor rating: 1 hr
 Separation of exits: 0.5 diagonal
 distance (19'-6" min)
 Minimum Egress Door Width: 36"
 Exit Lighting: Required
 Emergency Lighting: Not Required
 Fire Alarm System: Not Required
 Fire Sprinkler System: Not Required
 Portable Fire Extinguishers: Required

Interior Finishes - Walls & Ceilings: Egress Corridors: Class A or B
 Other Areas: Class A, B, or C
 Interior Finishes - Floors: Class I or II

2018 INTERNATIONAL BUILDING CODE

Use Group Classification: Business (B) - 833 sf
 Hazard Classification: Ordinary Hazard
 Occupant Loads: 616 sf Office @ 150 sf/occ = 5 Occupants
 217 sf Storage @ 300 sf/occ = 1 Occupant
 Total Occupant Load = 6 Occupants

Building Limitations
 Construction Type: 5B
 Maximum Height: 2 Story / 40'
 Maximum Area / Floor: 9,000 sf

Fire Resistance Ratings
 Structural Frame: None
 Load Bearing Exterior Walls: None
 Load Bearing Interior Walls: None
 Mechanical Rooms: 1 hour
 Exit Corridors: 1 hour
 Roof/Floor Structure: None

Minimum Number of Exits: 2
 Maximum Exit Travel Distance: 200'
 Maximum Dead End Corridor Length: 20'
 Maximum Common Travel Path: 75'
 Minimum Corridor Width: 36" (under 50 occupants)

Fire Alarm/Detection System: Not Required
 Fire Sprinkler System: Not Required
 Portable Fire Extinguishers: Required
 Exit Lights: Required
 Emergency Lighting: Required

Building Live Loads
 Offices: 100 psf
 Corridors: 80 psf

Interior Finishes at Walls & Ceilings: Exit Passageways - Class A
 Corridors - Class B
 Rooms & other enclosed spaces - Class C

MATERIALS

	CONCRETE
	CONCRETE MASONRY UNIT
	BATT INSULATION
	PRECAST STONE
	BRICK
	EARTH
	GRAVEL
	PLYWOOD
	RIGID INSULATION
	METAL
	ROUGH WOOD
	FINISHED WOOD

MAINE STATE PLUMBING CODE/UPC

Occupancy Classification: Business Office
 Occupancy Area: 833 sf
 Occupancy Load: 6

Office:	6 Occupants (3 Male/3 Female)		
FIXTURES	TOILETS	URINALS	LAVS
Unisex Toilet Room (Less than 10 Occupants)	1	0	1
Drinking Fountain:	1 required per 150 occupants		
Service Sink:	1 required		

2012 INTERNATIONAL ENERGY EFFICIENCY CODE (IECC) MUBEC (Maine Uniform Building Energy Code)

MINIMUM INSULATION VALUES
 Per 2012 IECC; Table 502.1.2, 502.2(1) and 502.3

ZONE 6A	R-VALUE	U-FACTOR	SHGC
Exterior wall	13 + 7.5 ci	0.064	NA
Roof	30.0	0.033	NA
Slab (24" band)	10.0	0.100	NA
Frost Wall (ci)	10.0	0.100	NA
Doors - Opaque	1.4	0.70	NA
Windows	1.8	0.55	0.40
Storefront (window)	2.2	0.45	0.40
Storefront (door)	1.25	0.80	0.40

SYMBOLS

	ROOM NUMBER
	DOOR NUMBER
	REVISION NUMBER
	WINDOW TYPE
	PARTITION TYPE
ELEVATION NUMBER	INTERIOR ELEVATIONS
SECTION NUMBER	BUILDING SECTION
SHEET NUMBER	WALL SECTION
SECTION NUMBER	WALL SECTION
SHEET NUMBER	WALL SECTION
DETAIL NUMBER	DETAIL REFERENCE
SHEET NUMBER	DETAIL REFERENCE
FIN. FL. ELEV. XXX.X	FINISH FLOOR ELEVATION ON PLAN
FIN. FL. ELEV. XXX.X	FINISH FLOOR ELEVATION ON SECTIONS & ELEVATIONS

GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING THE WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. CONTRACTOR SHALL PROCEED WITH THE WORK ONLY AFTER SUCH DISCREPANCIES HAVE BEEN RESOLVED BY THE ARCHITECT. CONTRACTOR SHALL ALLOW A 48 HOUR TIME FRAME FOR RESOLVING DISCREPANCIES ONCE THE ARCHITECT HAS ACKNOWLEDGED THE CONDITION.
- CONTRACTOR SHALL REVIEW AND VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING THE WORK IN ANY GIVEN AREA.
- WORK WITH GIVEN DIMENSIONS AND LARGE SCALE DETAILS. DO NOT SCALE THE DRAWINGS AS THE REPRODUCTIVE PROCESS TENDS TO DISTORT THE ACCURACY OF THE GRAPHIC SCALE INDICATED.
- ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE PRESERVATIVE TREATED.
- INSTALL SOLID BLOCKING AT WALL FRAMING BEHIND ALL SURFACE MOUNTED FIXTURES, TRIM AND HANDRAILS.
- ALL GRAB BARS SHALL BE ABLE TO SUPPORT A DEAD WEIGHT OF 250 LBS AT ANY POINT.
- THE LOCATION OF ANY DOOR JAMBS NOT DIMENSIONED SHALL BE 6" FROM ADJACENT PERPENDICULAR WALL.
- ALL WALL PARTITIONS SHALL EXTEND FLOOR TO STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
- ALL NEW SHEETROCK IN WET AREAS (PLUMBING FIXTURES) SHALL BE MOISTURE RESISTANT TYPE, UNLESS OTHERWISE NOTED.
- REFER TO ACCESSIBILITY DETAIL SHEET FOR AMERICANS WITH DISABILITIES ACT (ADA) CONSTRUCTION CRITERIA.
- MAINE TURNPIKE AUTHORITY UTILITY & EQUIPMENT ROOM SHALL BE TWO HOUR (2 HR) FIRE RATED.

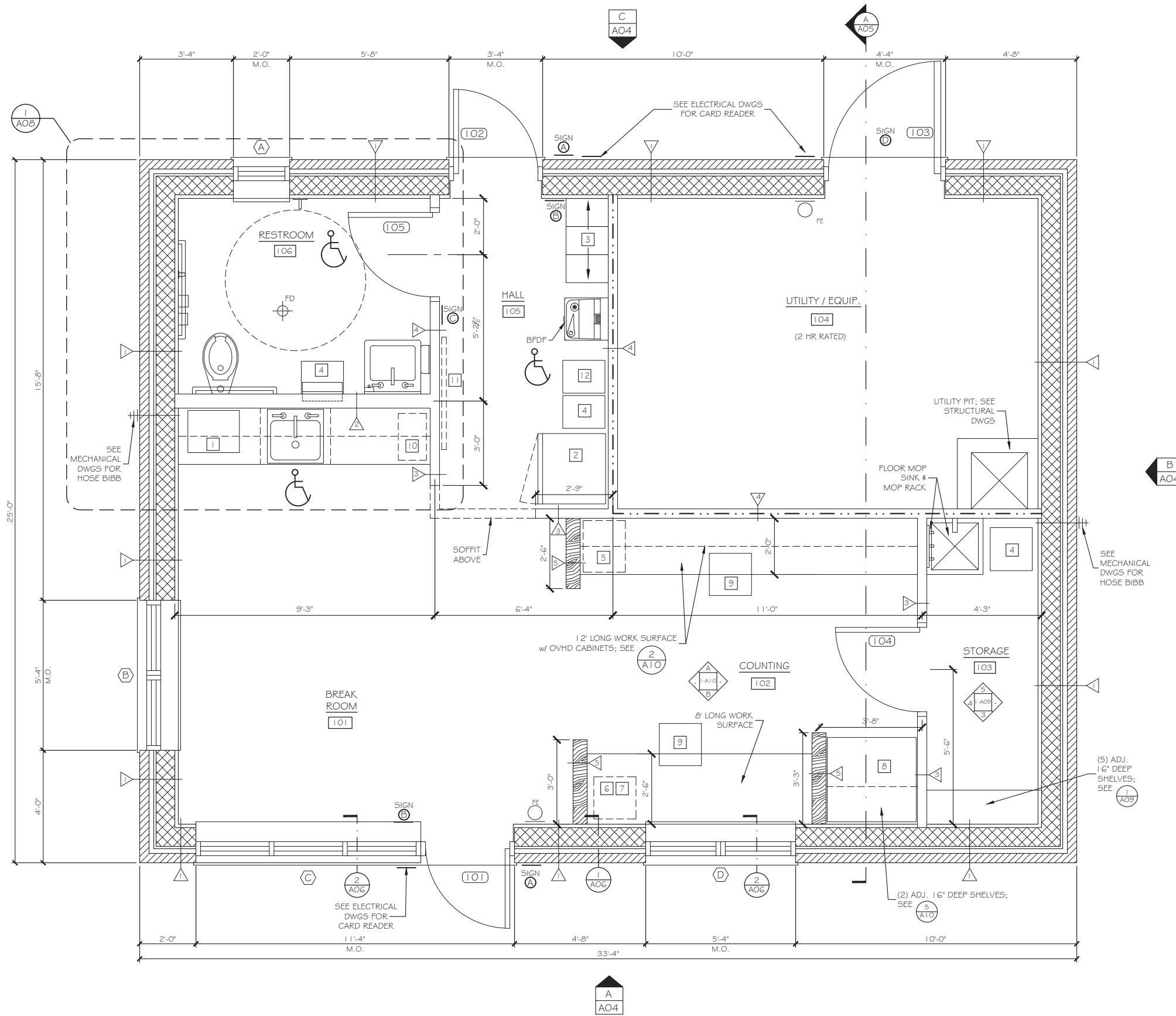
Scale:				Designed by:					
				Michael F. Hays, RA					
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.					
				By	Date	By	Date		
				Designed	MFH	12/03/20	Checked	MGK	12/03/20
				Drawn	MFH	12/03/20	In Charge of		

GRANT HAYS ASSOCIATES
 ARCHITECTURE & INTERIOR DESIGN
 P.O. BOX 6179 FALMOUTH MAINE 04105
 207.871.5900 www.granthays.com

THE GOLD STAR MEMORIAL HIGHWAY
 MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
 TOLL ADMINISTRATION BUILDING
 ABBREVIATIONS, LEGENDS & SYMBOLS

SHEET NUMBER: A00
 CONTRACT: 2021.07
 402 OF 431



EQUIPMENT TYPES:

- 1 MICROWAVE OVEN
- 2 REFRIGERATOR
- 3 LOCKERS - 2 TIER (12" W x 18" D)
- 4 TRASH BIN - N.I.C.
- 5 FILE CABINET - 2 DRAWER - N.I.C.
- 6 COIN SORTER - N.I.C.
- 7 CURRENCY SCANNER - N.I.C.
- 8 SAFE - N.I.C.
- 9 ROLLING CHAIR - N.I.C.
- 10 COFFEE MAKER - N.I.C.
- 11 BULLETIN BOARD - N.I.C. (INSTALL BLOCKING AT FRAMING)
- 12 RECYCLE BIN - N.I.C.

PARTITION TYPES

TAG	DETAIL
1	1 A11
2	2 A11
3	3 A11
4	4 A11
5	5 A11

NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS & SIZES OF ALL DIFFUSERS, GRILLES, & EQUIPMENT.
2. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS & SIZES OF ALL LIGHT FIXTURES & DEVICES.
3. REFER TO ELECTRICAL DRAWINGS FOR HEAT TAPE AT GUTTERS.
4. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF FIRE ALARM DEVICES.
5. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF CARD READER DEVICES (PROVIDED BY MTA).

BUILDING ORIENTATION / F.F.E.

NORTHBOUND	SOUTHBOUND

Scale: 1/2"=1'-0"

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

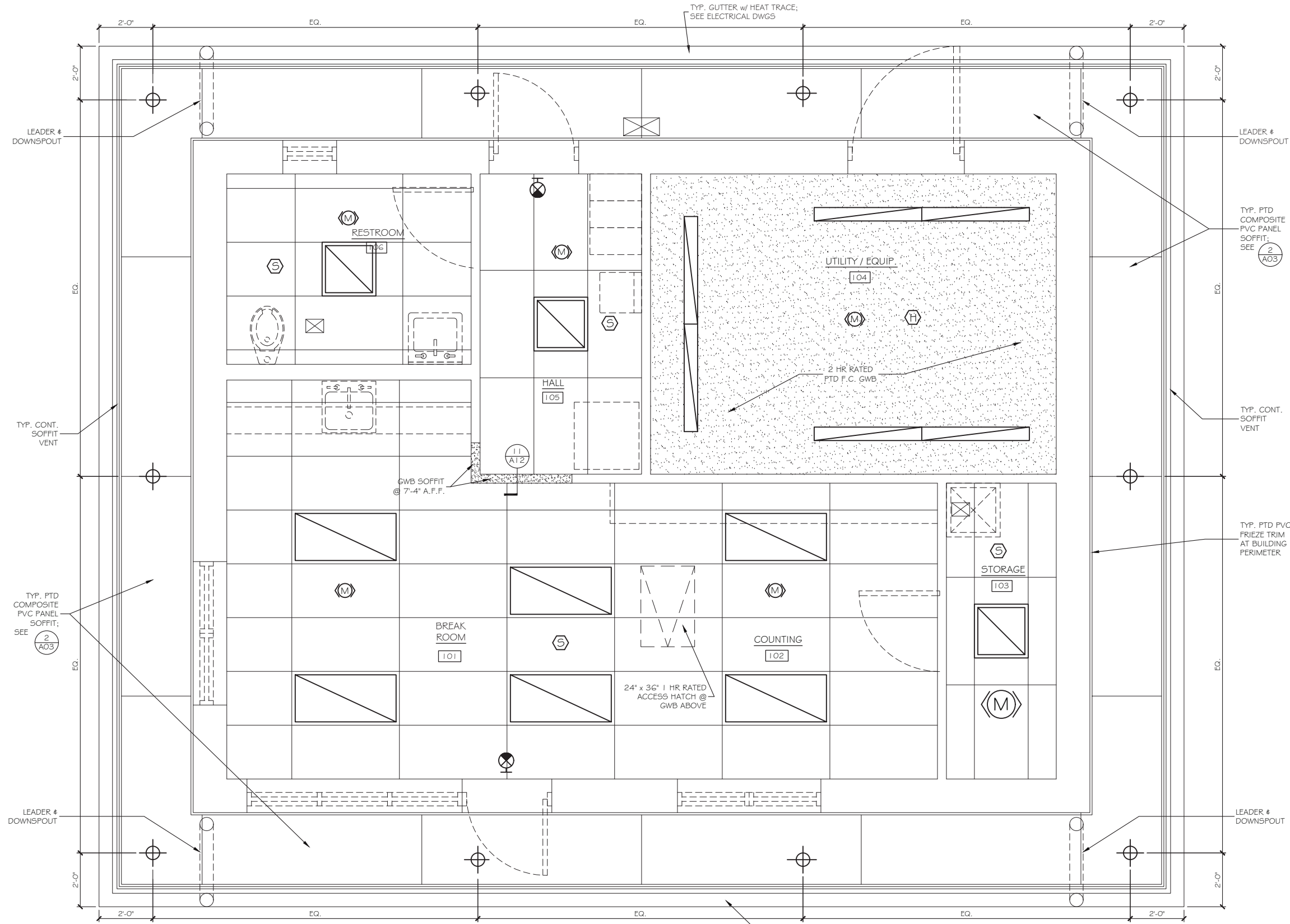
	By	Date	By	Date	
Designed	MFH	12/03/20	Checked	MGK	12/03/20
Drawn	MFH	12/03/20	In Charge of		

GRANT HAYS ASSOCIATES
ARCHITECTURE & INTERIOR DESIGN
P.O. BOX 6179 FALMOUTH MAINE 04105
207.871.5900 www.granthays.com

THE GOLD STAR MEMORIAL HIGHWAY
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING FLOOR PLAN

CONTRACT: 2021.07 SHEET NUMBER: A01 403 OF 431



NOTES:

- SEE (9/A12) FOR F.C. GWB / 1 HR RATED ASSEMBLY AT ROOF TRUSSES - ENTIRE BUILDING.
- SEE (10/A12) FOR F.C. GWB / 2 HR RATED ASSEMBLY AT ROOF TRUSSES - UTILITY / EQUIPMENT [104]
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS & SIZES OF ALL DIFFUSERS, GRILLES, & EQUIPMENT.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS & SIZES OF ALL LIGHT FIXTURES & DEVICES.
- REFER TO ELECTRICAL DRAWINGS FOR HEAT TAPE AT GUTTERS.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF FIRE ALARM DEVICES.
- PROVIDE EXPANSION TRIM ACCESSORIES & ANCHORS PER SOFFIT PANEL MANUFACTURER INSTRUCTIONS AT ALL EXTERIOR COMPOSITE PVC SOFFIT PANEL LOCATIONS.

LEGEND:

- PAINTED SHEETROCK CEILING (RATED)
- SUSPENDED ACOUSTICAL CEILING
- PAINTED SHEETROCK SOFFIT @ 7'-4" A.F.F. (MIN) SEE (6/A08)
- SOFFIT LIGHT FIXTURE
- EXIT LIGHT FIXTURE
- SURFACE LIGHT FIXTURE (EMERGENCY POWERED)
- LAY-IN LIGHT FIXTURE (EMERGENCY POWERED)
- CUH CABINET UNIT HEATER
- DUAL SUPPLY / RETURN
- HVAC SUPPLY
- HVAC RETURN
- EXHAUST FAN
- SENSORS; SEE ELECTRICAL DRAWINGS
- SMOKE / HEAT DETECTORS; SEE ELECTRICAL DRAWINGS

Scale: 1/2" = 1'-0"

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date	By	Date	
Designed	MFH	12/03/20	Checked	MGK	12/03/20
Drawn	MFH	12/03/20	In Charge of		

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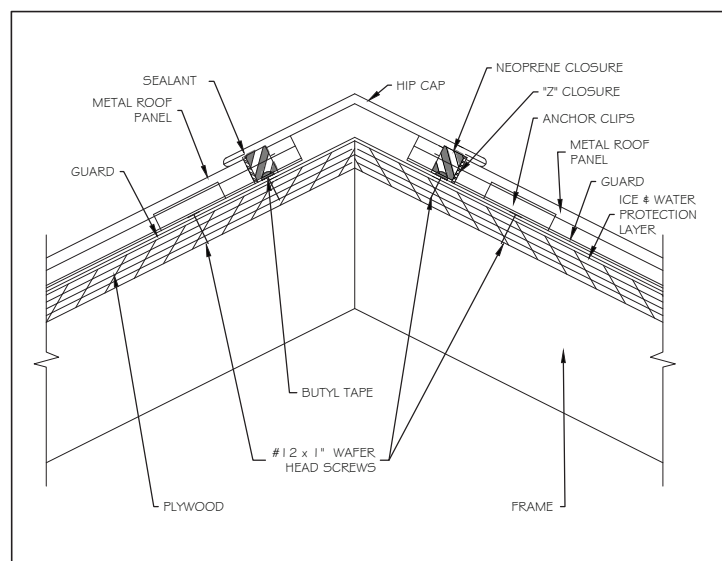
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

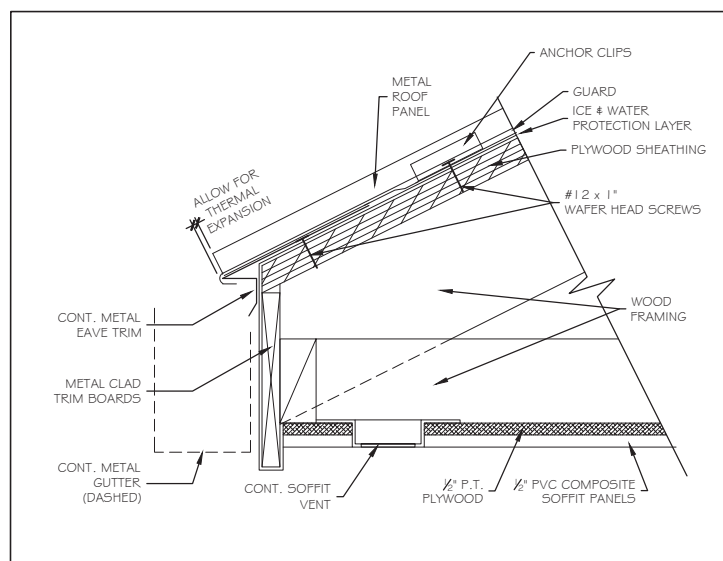
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
TOLL ADMINISTRATION BUILDING
REFLECTED CEILING PLAN

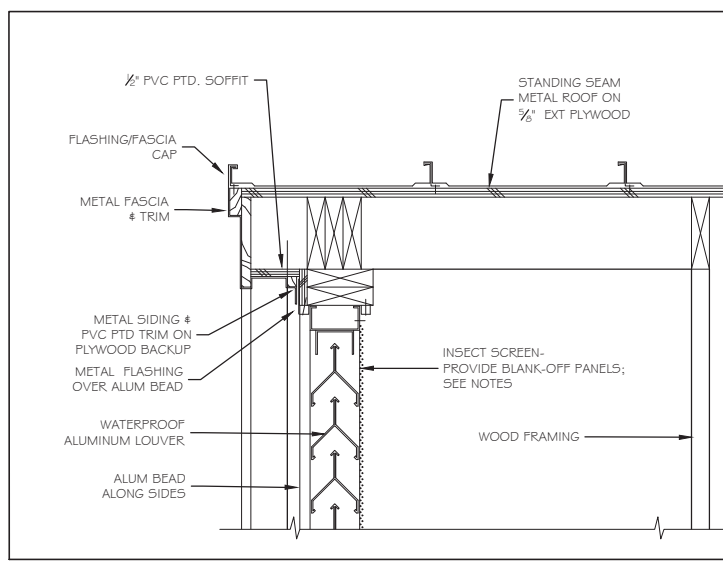
SHEET NUMBER: A02
CONTRACT: 2021.07
404 OF 431



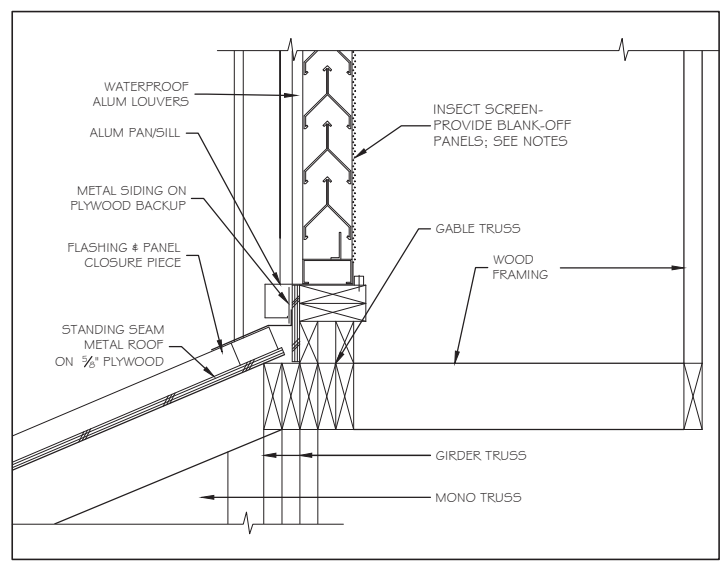
① ROOF HIP / RIDGE DETAIL 1/2" = 1'-0"



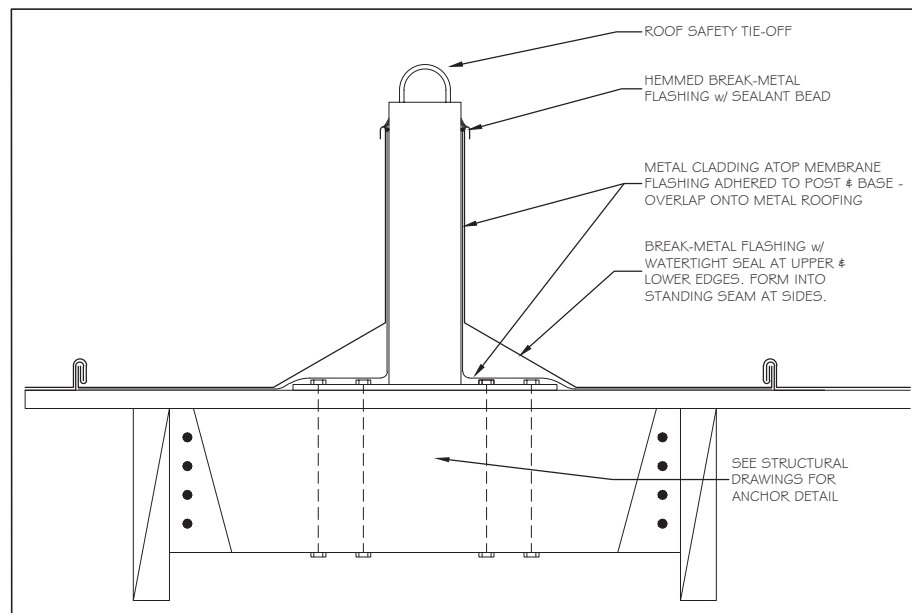
② ROOF EAVE DETAIL 3" = 1'-0"



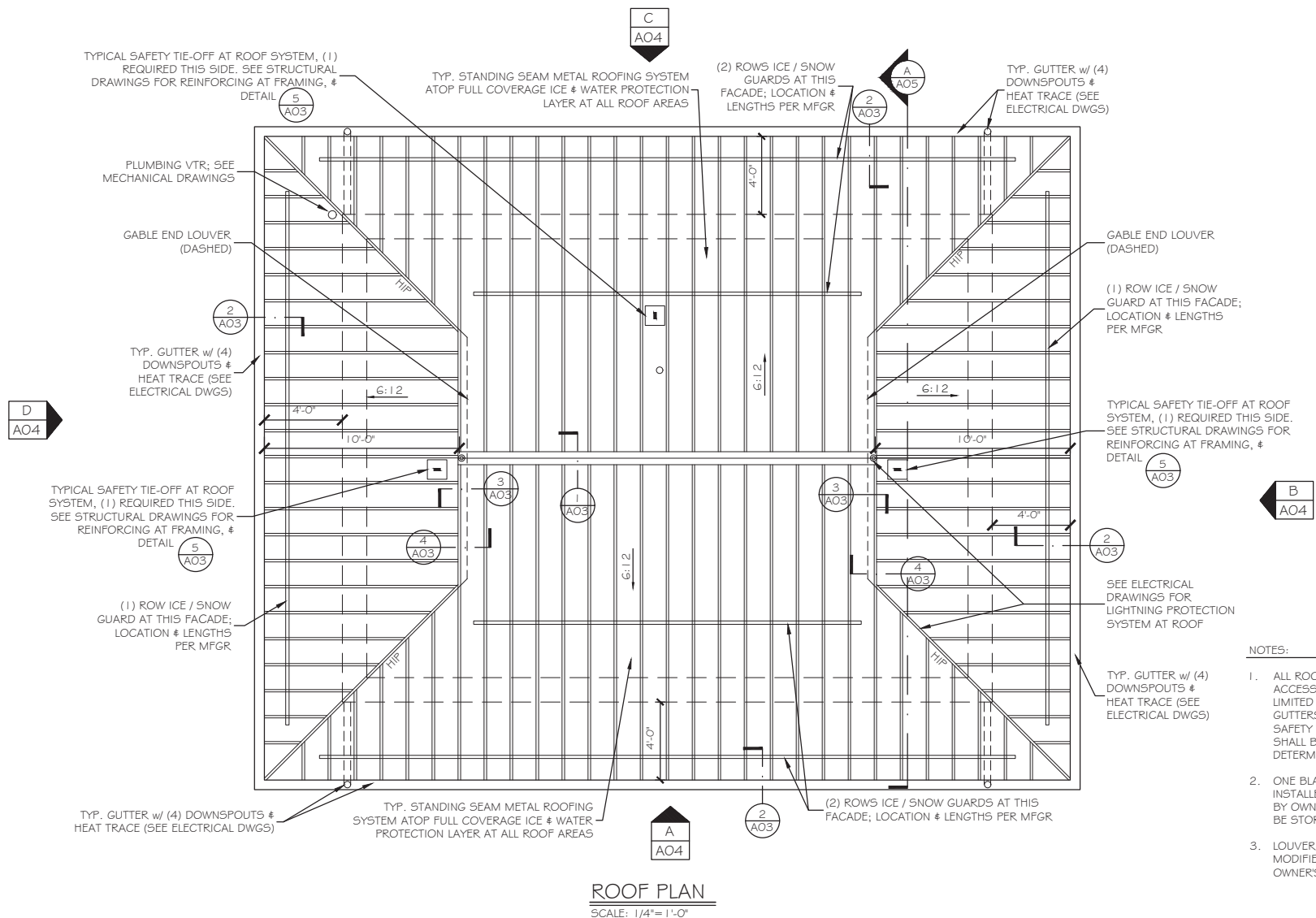
③ GABLE LOUVER RAKE DETAIL 1/2" = 1'-0"



④ GABLE LOUVER SILL DETAIL 1/2" = 1'-0"



⑤ FLASHING AT ROOF SAFETY TIE-OFF 3" = 1'-0"



- NOTES:
- ALL ROOFING MATERIALS AND ACCESSORIES, INCLUDING, BUT NOT LIMITED TO, ICE / SNOW GUARDS, GUTTERS, DOWNSPOUTS, LOUVERS, SAFETY TIE-OFFS, FLASHINGS, ETC. SHALL BE COLOR MATCHED AS DETERMINED BY THE ARCHITECT.
 - ONE BLANK-OFF PANEL TO BE INSTALLED PER LOCATION DETERMINED BY OWNER. ONE BLANK-OFF PANEL TO BE STORED IN ATTIC SPACE.
 - LOUVER BLANK-OFF PANELS SHALL BE MODIFIED DURING CONSTRUCTION PER OWNER'S INSTRUCTIONS.

Scale: AS NOTED

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.					
No.	Revision	By	Date	By	Date
Designed		MFH	12/03/20	Checked	MGK 12/03/20
Drawn		MFH	12/03/20	In Charge of	

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THE GOLD STAR MEMORIAL HIGHWAY

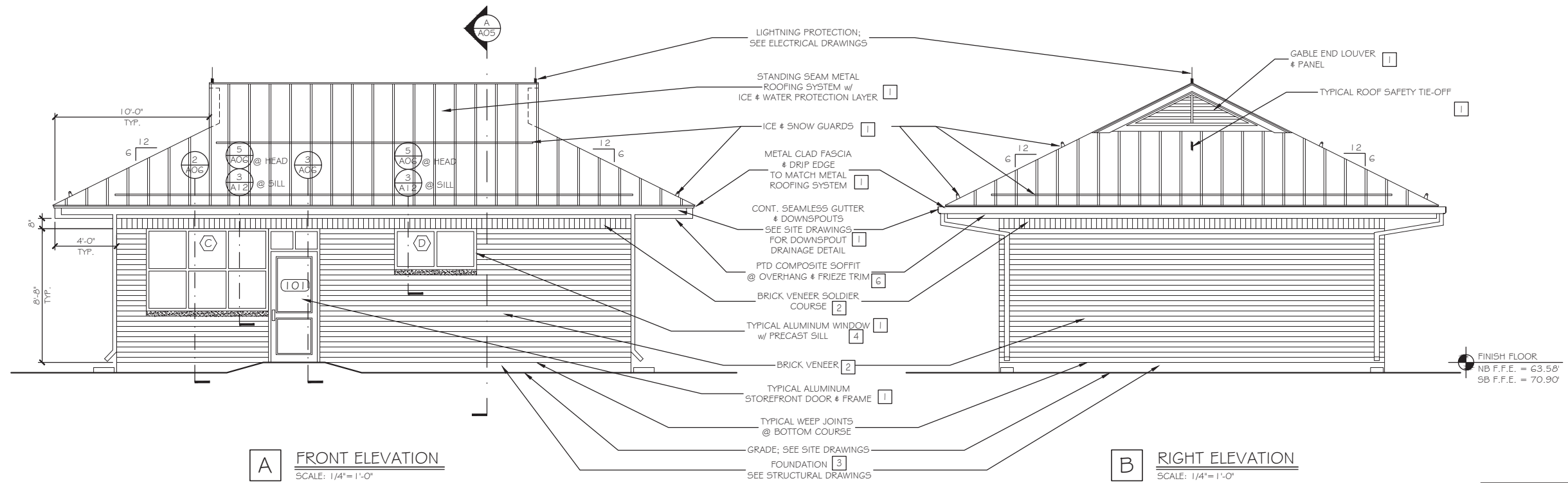
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING ROOF PLAN AND DETAILS

CONTRACT: 2021.07

SHEET NUMBER: A03

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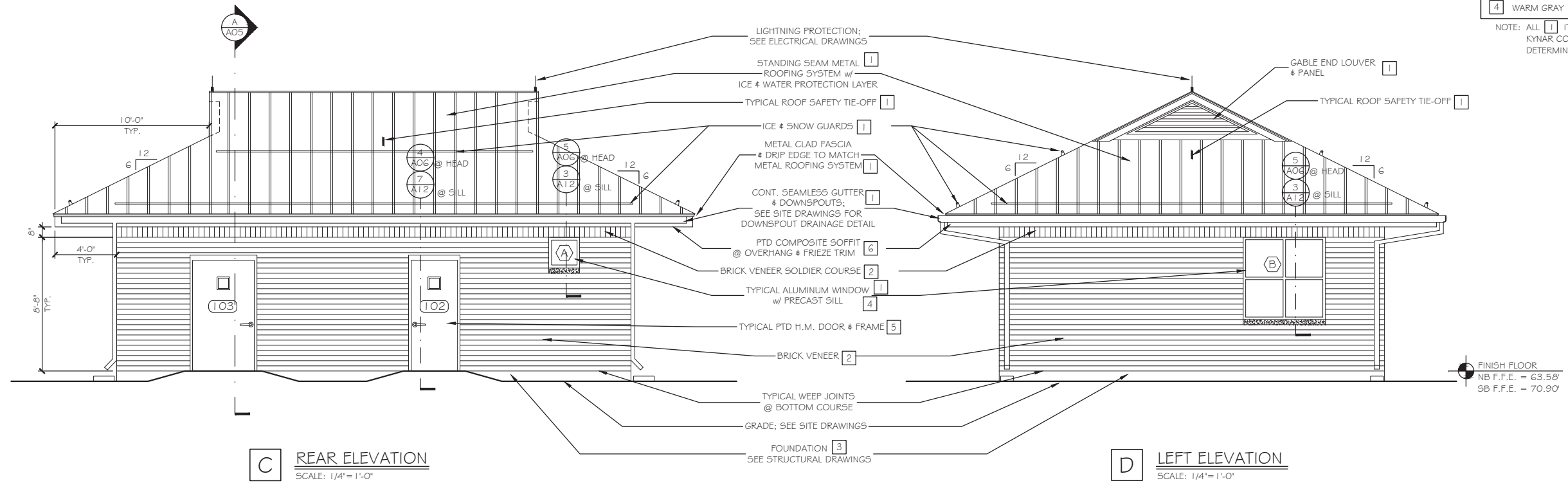
A FRONT ELEVATION
SCALE: 1/4"=1'-0"

B RIGHT ELEVATION
SCALE: 1/4"=1'-0"

FINISH FLOOR
NB F.F.E. = 63.58'
SB F.F.E. = 70.90'

EXTERIOR MATERIALS COLOR LEGEND	
1 GREEN KYNAR	5 GREEN PAINT
2 BRICK RED - NATURAL	6 WHITE PAINT
3 CONCRETE - NATURAL	
4 WARM GRAY	

NOTE: ALL 1 ITEMS SHALL BE THE SAME KYNAR COLOR (EXACT MATCH) AS DETERMINED BY THE ARCHITECT



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

D LEFT ELEVATION
SCALE: 1/4"=1'-0"

FINISH FLOOR
NB F.F.E. = 63.58'
SB F.F.E. = 70.90'

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

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date	By	Date	
Designed	MFH	12/03/20	Checked	MGK	12/03/20
Drawn	MFH	12/03/20	In Charge of		



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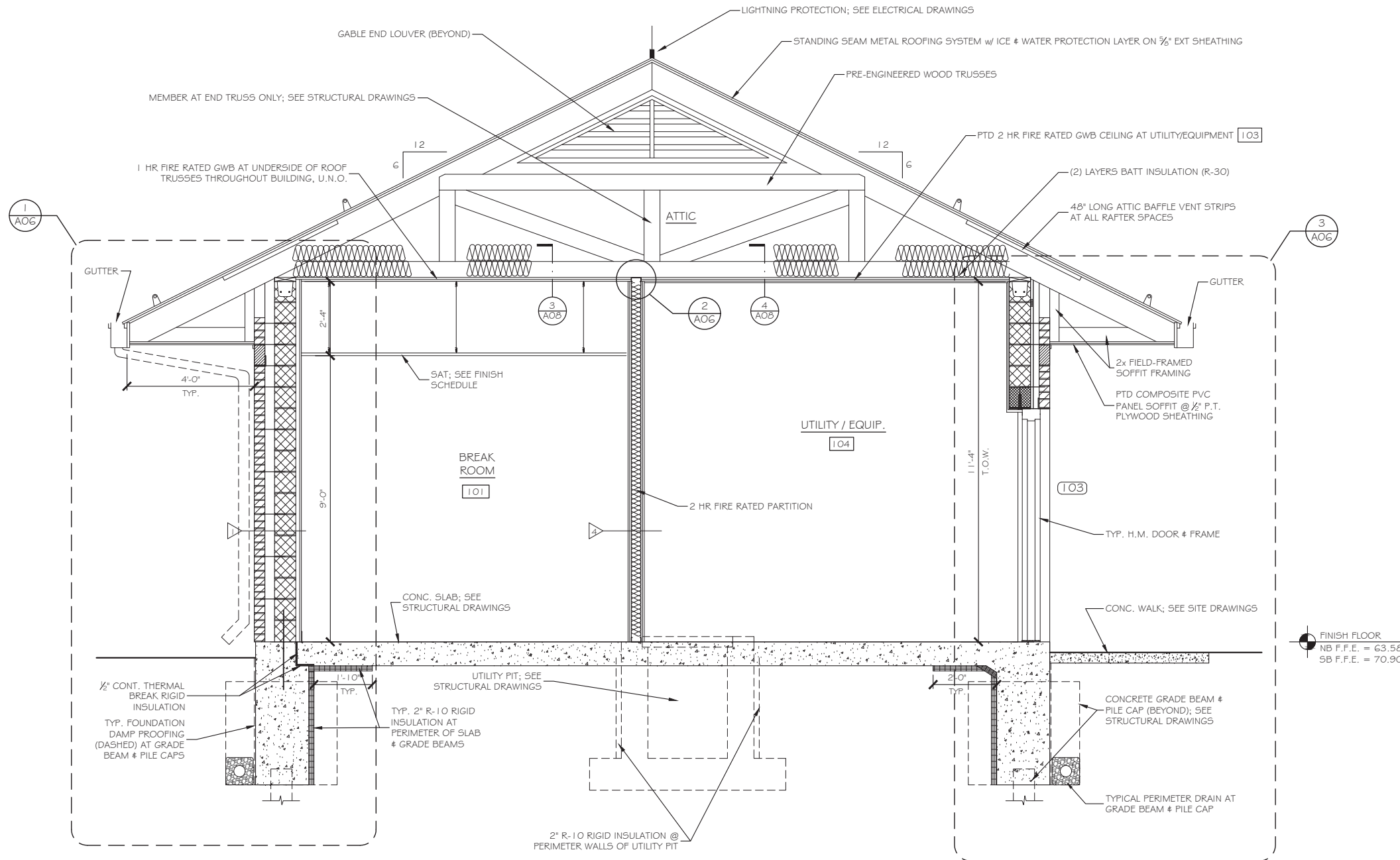
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING BUILDING ELEVATIONS

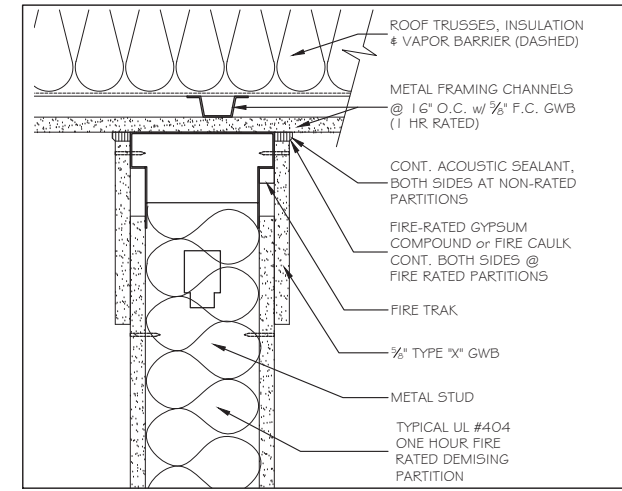
SHEET NUMBER: A04

CONTRACT: 2021.07

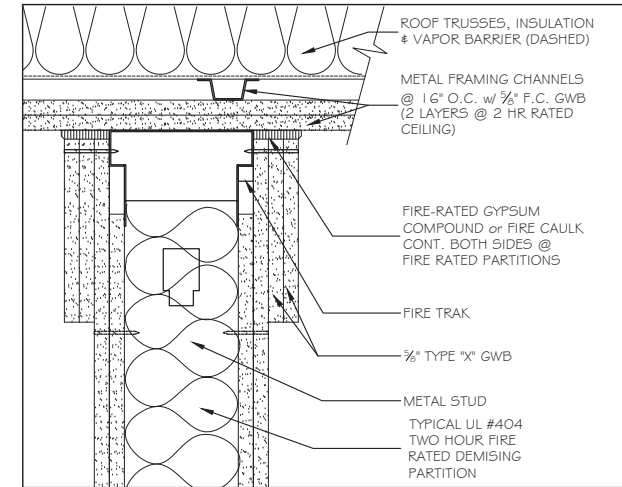
406 OF 431



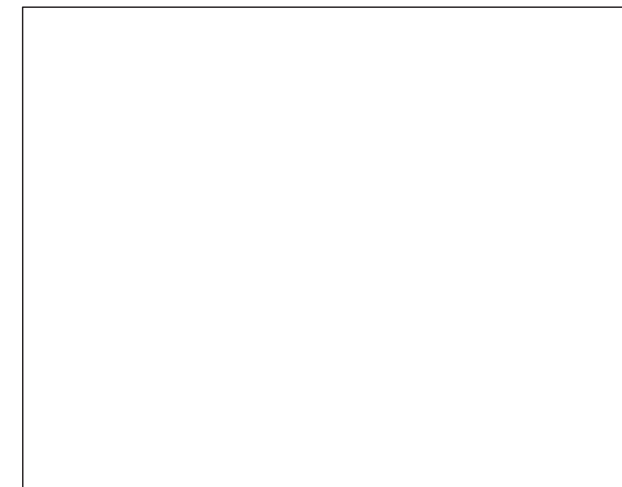
A TYPICAL BUILDING SECTION
SCALE: 1/2" = 1'-0"



1 1 HR FIRE RATED HEAD CONDITION AT ROOF TRUSSES 3" = 1'-0"



2 2 HR FIRE RATED HEAD CONDITION AT ROOF TRUSSES 3" = 1'-0"



3 NOT USED

Scale: AS NOTED

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date	By	Date	
Designed	MFH	12/03/20	Checked	MGK	12/03/20
Drawn	MFH	12/03/20	In Charge of		



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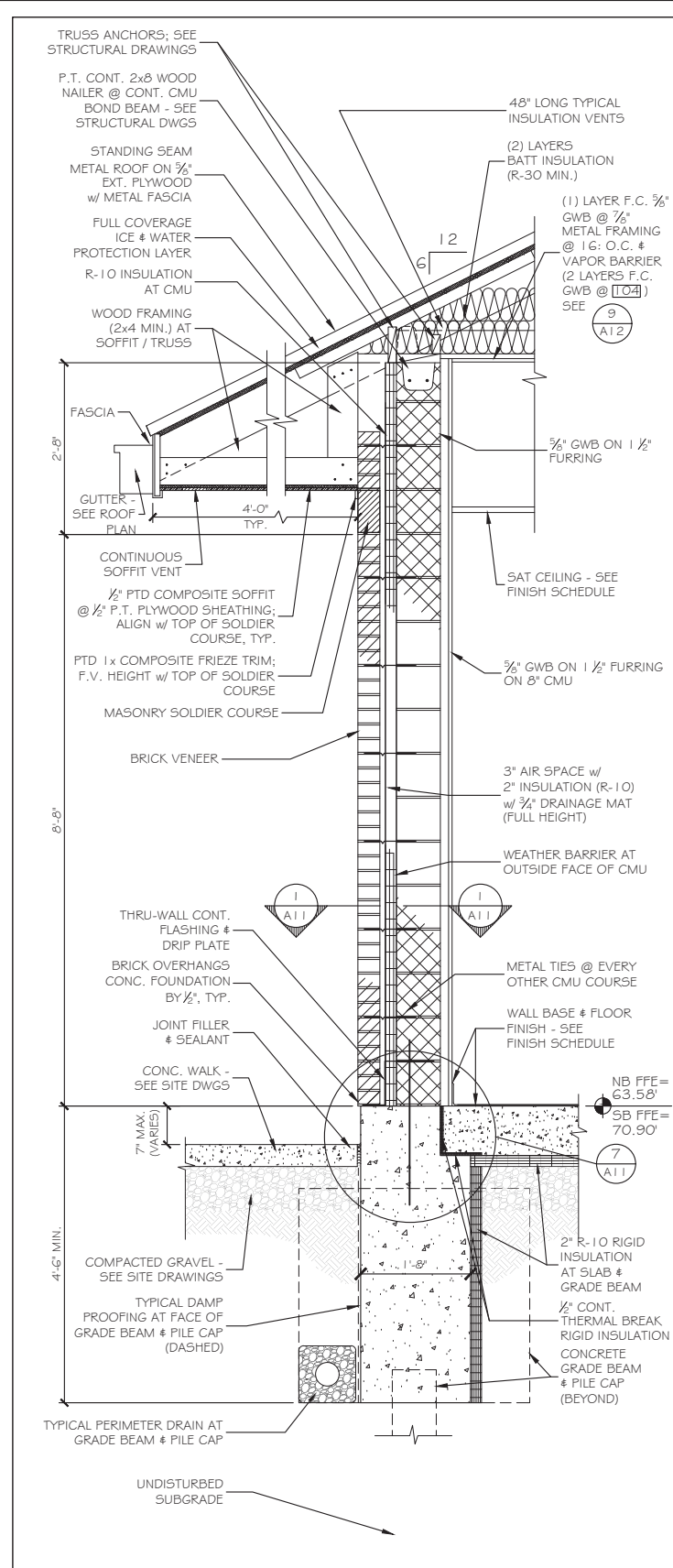
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING BUILDING SECTIONS

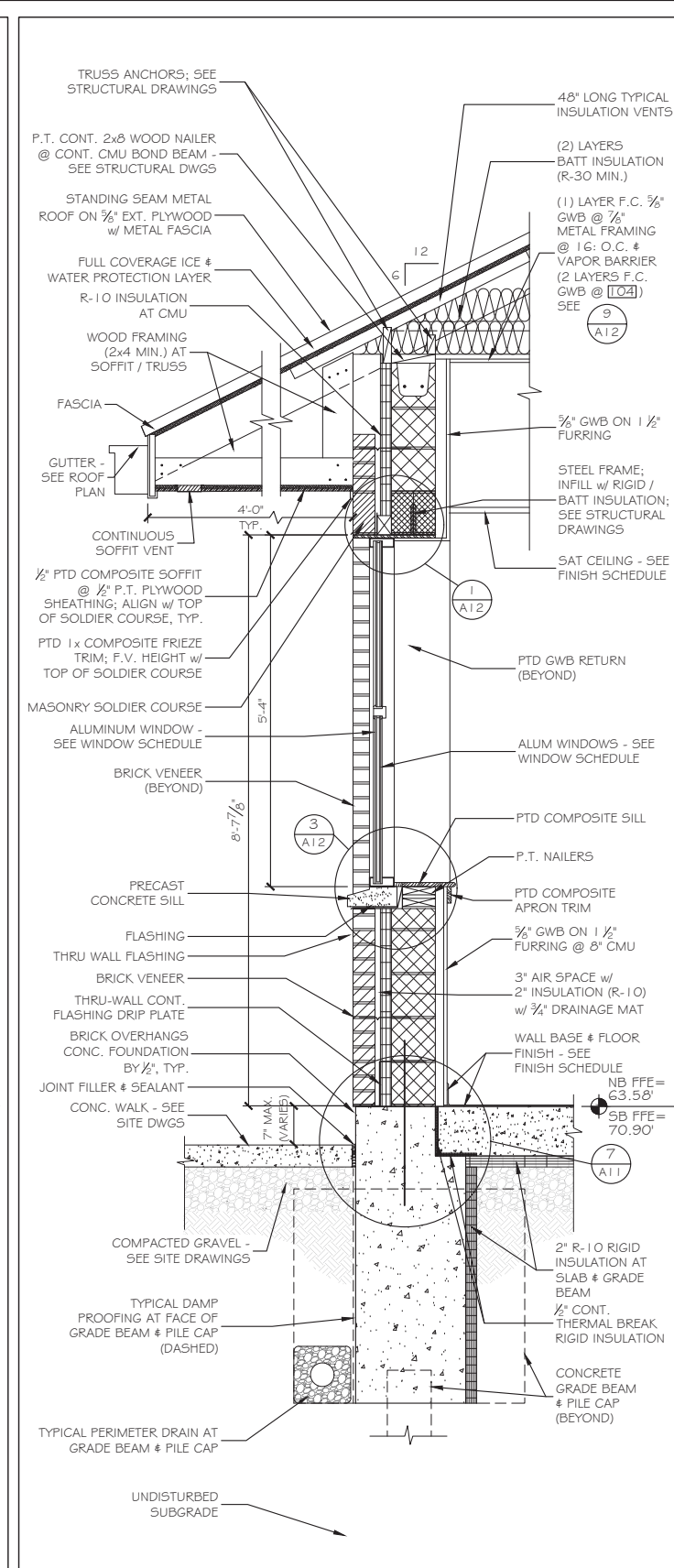
SHEET NUMBER: A05

CONTRACT: 2021.07

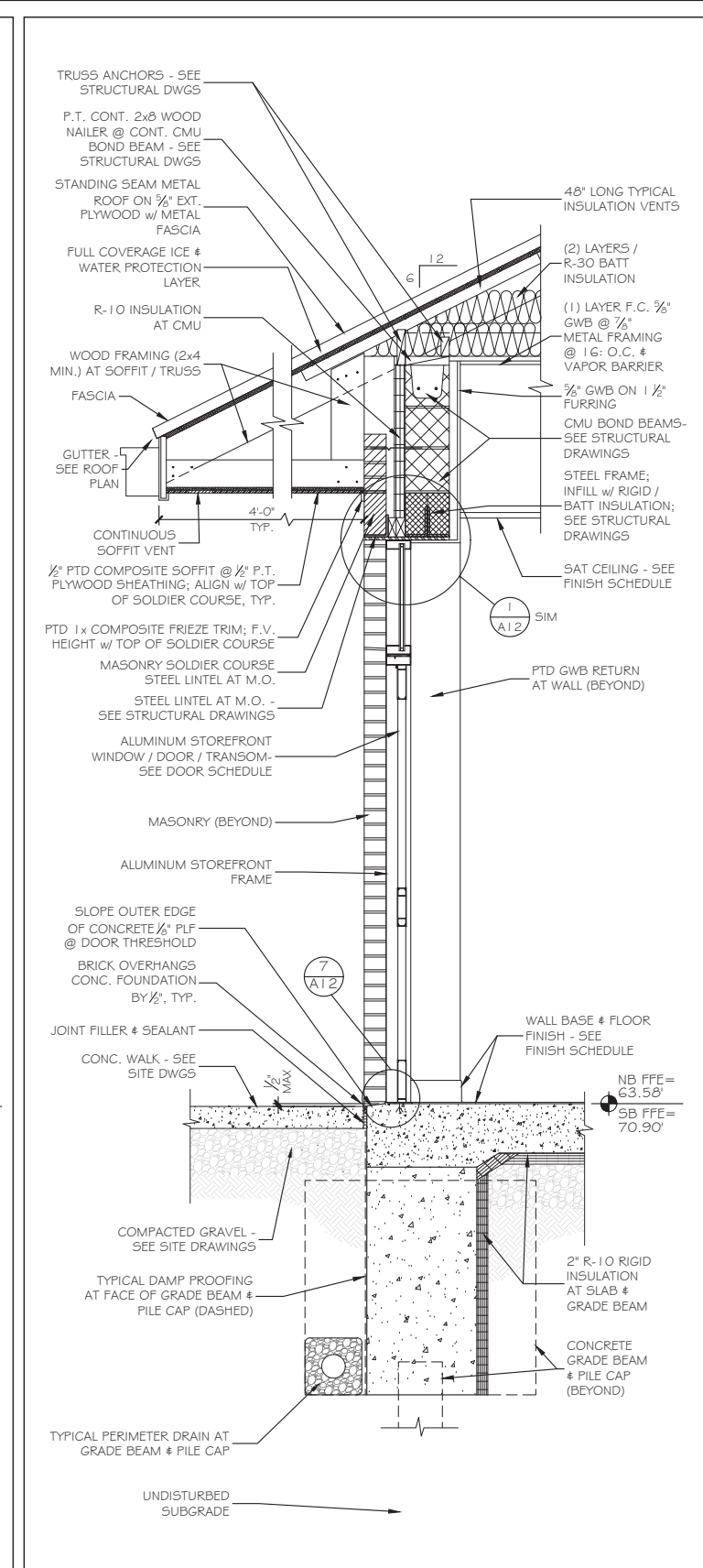
407 OF 431



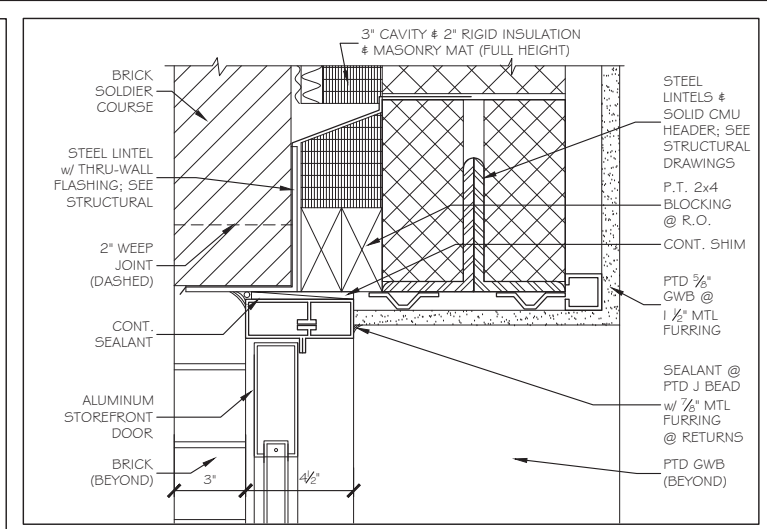
① TYPICAL EXTERIOR WALL SECTION 3/4" = 1'-0"



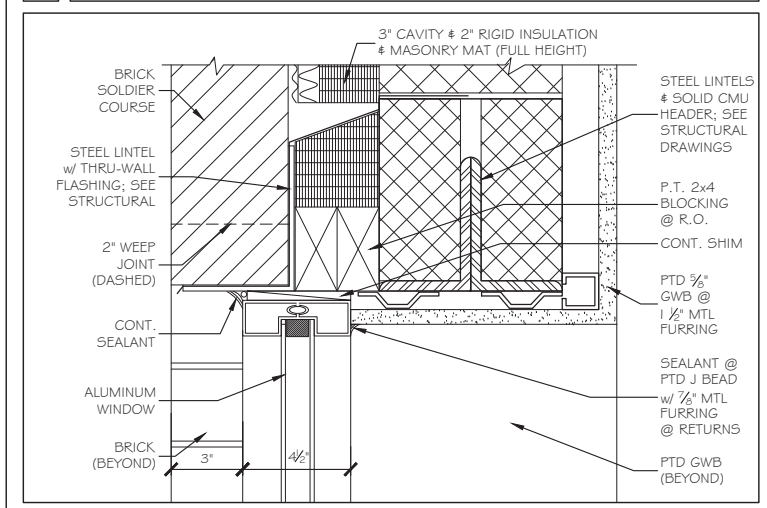
② EXTERIOR WINDOW WALL SECTION 3/4" = 1'-0"



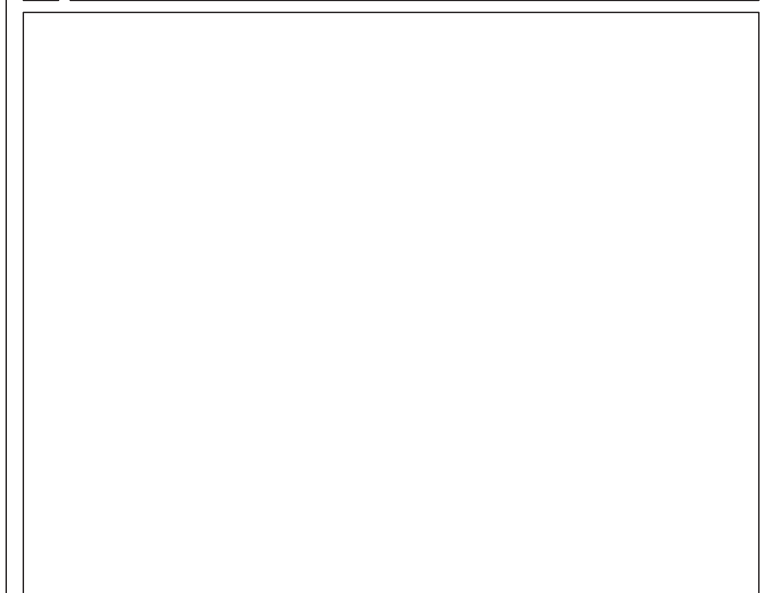
③ EXTERIOR DOOR WALL SECTION 3/4" = 1'-0"



④ EXTERIOR DOOR HEAD @ MASONRY 3" = 1'-0"



⑤ EXTERIOR WINDOW HEAD @ MASONRY 3" = 1'-0"



⑥ NOT USED

Scale: AS NOTED

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date		By	Date
Designed	MFH	12/03/20	Checked	MGK	12/03/20
Drawn	MFH	12/03/20	In Charge of		

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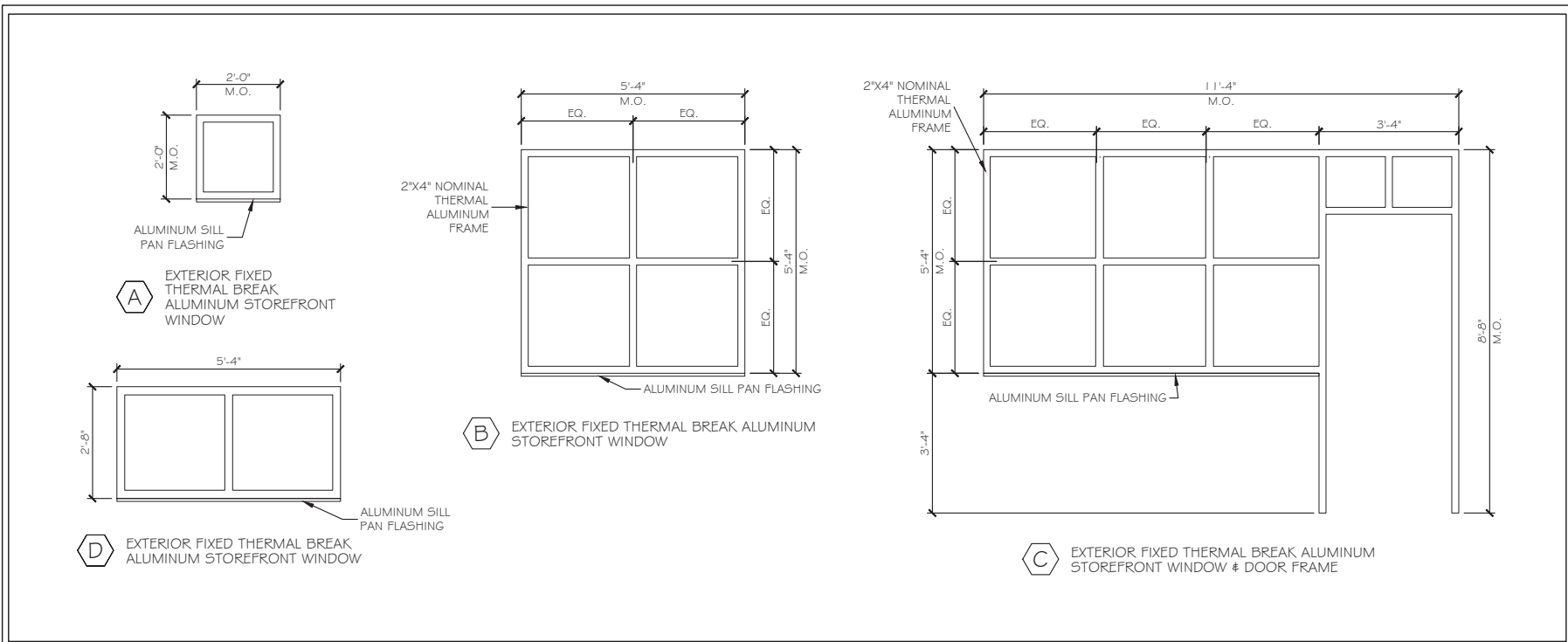
ARCHITECTURE & INTERIOR DESIGN
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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
TOLL ADMINISTRATION BUILDING
WALL SECTIONS & PARTITION TYPES

SHEET NUMBER: A06
CONTRACT: 2021.07
408 OF 431

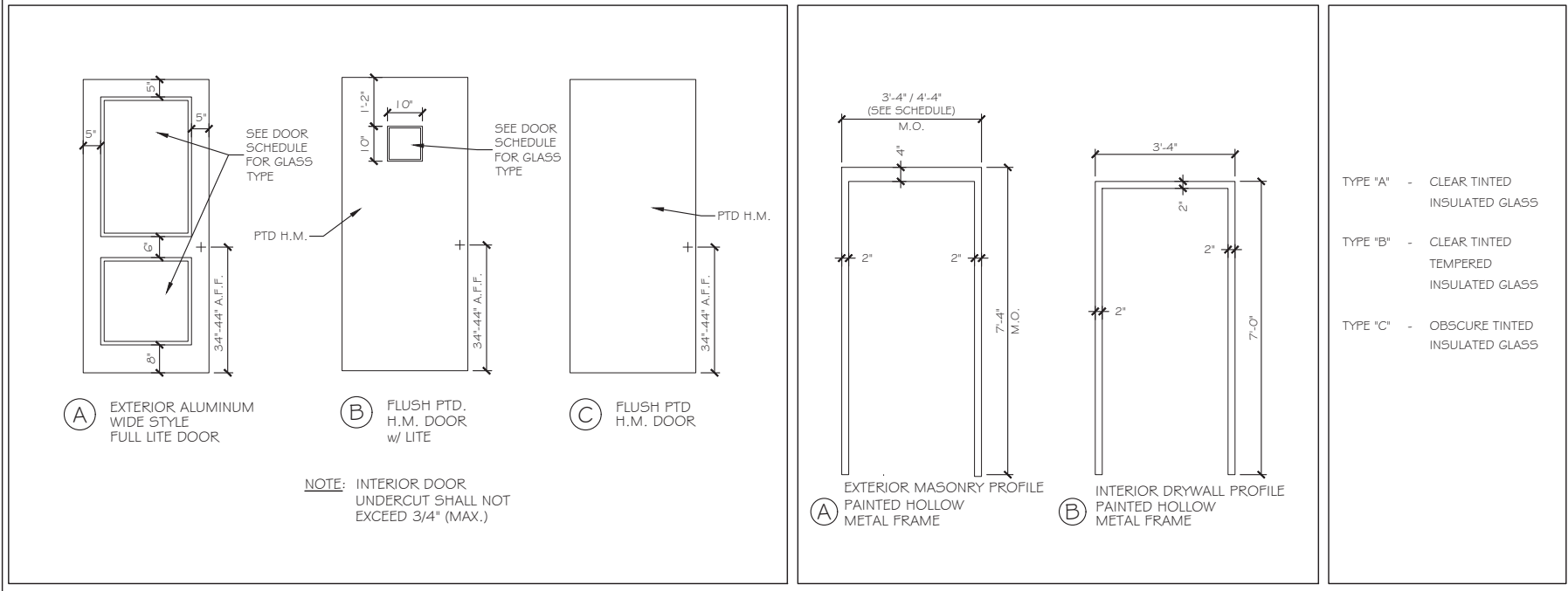


DOOR SCHEDULE

ABBREVIATIONS																	
AL	ALUMINUM	T	TEMPERED														
E	EXISTING	TH	THERMAL INSULATED														
EMHO	ELECTRO MAGNETIC HOLD OPENER	V	VINYL														
GL	GLASS	W	WIRE														
HM	HOLLOW METAL	WD	WOOD														
INSUL	INSULATED	W /	WITH														
SS	STAINLESS STEEL																
DOORS										FRAMES			THRESHOLDS				
NO.	TYPE	SIZE (w x h)	THK	INSUL	HDWE	FR	GLASS		REMARKS	TYPE	FR	PROFILE	DETAILS		MATERIAL	DETAILS	
							TYPE	SIZE					HEAD	JAMB		SILL	FIN
101	A	3070	1 3/4"	NO	HW-1	-	T/TH	FULL	GLASS "B"	C*	-	ALUM	5-A12	6-A12	ALUM	7-A12	-
102	B	3070	1 3/4"	YES	HW-1	-	T/TH	10x10	GLASS "B"	A	-	MAS	4-A06	6-A12	ALUM	7-A12	-
103	B	4070	1 3/4"	YES	HW-2	-	T/TH	10x10	GLASS "B"	A	-	MAS	4-A06	6-A12	ALUM	7-A12	-
104	C	3070	1 3/4"	NO	HW-3	-	-	-	-	B	-	DW	8-A12	8-A12	NONE	-	TILE
105	C	3070	1 3/4"	NO	HW-4	-	-	-	-	B	-	DW	8-A12	8-A12	NONE	-	-

*SEE WINDOW TYPES FOR FRAME TYPE 'C' AT DOOR 101.

WINDOW TYPES NO SCALE



DOOR TYPES NO SCALE DOOR FRAME TYPES NO SCALE GLASS TYPES NO SCALE

WINDOW SCHEDULE

ABBREVIATIONS														
AL	ALUMINUM	T	TEMPERED											
E	EXISTING	TH	THERMAL INSULATED											
EMHO	ELECTRO MAGNETIC HOLD OPENER	V	VINYL											
GL	GLASS	W	WIRE											
HM	HOLLOW METAL	WD	WOOD											
SS	STAINLESS STEEL	W /	WITH											
NO.	TYPE	MANUFACTURER		NOMINAL SIZE		DETAILS				REMARKS				
		MATERIAL	MODEL	WIDTH	HEIGHT	HEAD	JAMB	SILL	MUNT		MULL			
A	FIXED	ALUMINUM	T-BREAK	2'-0"	2'-0"	1-A12	2-A12	3-A12	-	-	TYPE "C" GLASS			
B	FIXED	ALUMINUM	T-BREAK	5'-4"	5'-4"	1-A12	2-A12	3-A12	-	-	TYPE "A" GLASS			
C	FIXED	ALUMINUM	T-BREAK	8'-0"	5'-4"	1-A12	2-A12	3-A12	-	-	TYPE "B" GLASS			
D	FIXED	ALUMINUM	T-BREAK	5'-4"	2'-8"	1-A12	2-A12	3-A12	-	-	TYPE "A" GLASS			

FINISH SCHEDULE

ABBREVIATIONS														
C	CARPET	FRP	FIBERGLASS REINFORCED PANELS	QT	QUARRY TILE									
CH	CONCRETE W/ HARDENER	FV	FIELD VERIFY	SS	STAINLESS STEEL									
CMU	CONCRETE MASONRY UNIT	GL	GLASS	VCB	VINYL COVE BASE									
CT	CERAMIC TILE	GWB	GYPSON WALL BOARD	VCT	VINYL COMPOSITION TILE									
E	EXISTING	P	PAINT	VWC	VINYL WALL COVERING									
EP	EPOXY PAINT	PCS	PAINT COAT SYSTEM	WC(1)	WALL COVERING (TYPE)									
FCS	FLOOR COATINGS SYSTEM	RCB	RUBBER COVE BASE	WD	WOOD									
NO.	NAME	WALLS				FLOOR				CLG A		CLG B		REMARKS
		N	E	S	W	MATL	BASE	MATL	BASE	TYPE	HT	TYPE	HT	
101	BREAK ROOM	P	P	P	P	CT	VCB	MAT	-	SAT	9'-0"	-	-	
102	COUNTING	P	P	P	P	CT	VCB	-	-	SAT	9'-0"	-	-	
103	CUSTODIAL	P	P	P/FRP	P/FRP	CT	VCB	-	-	SAT	9'-0"	-	-	FRP TO 48" A.F.F.
104	UTILITY / EQUIP.	P	P	P	P	EPOXY	VCB	-	-	P/GWB	11'-4"	-	-	2 HR RATED (AT STRUCTURE)
105	HALL	P	P	P	P	CT	VCB	-	-	SAT	7'-6"	-	-	
106	RESTROOM	P/CT	P/CT	P/CT	P/CT	CT	CT	-	-	SAT	9'-0"	-	-	SEE 2-A08 FOR CT. HT.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

By	Date	By	Date
Designed	MFH 12/03/20	Checked	MGK 12/03/20
Drawn	MFH 12/03/20	In Charge of	

GRANT HAYS ASSOCIATES

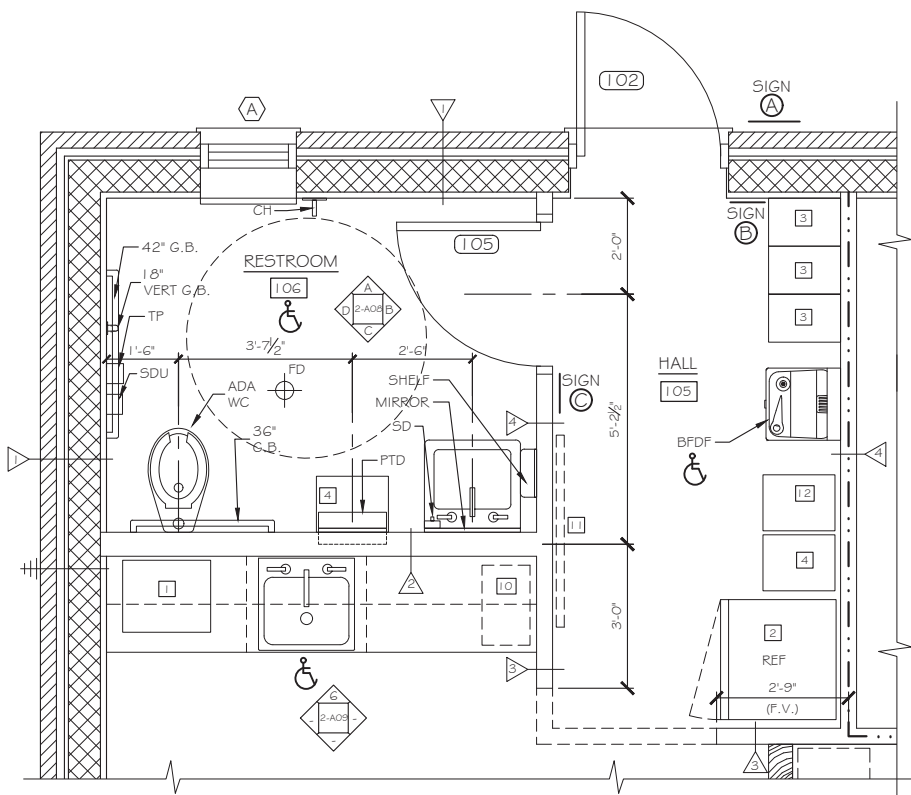
ARCHITECTURE & INTERIOR DESIGN
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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION
TOLL ADMINISTRATION BUILDING
DOORS, WINDOWS & DETAILS

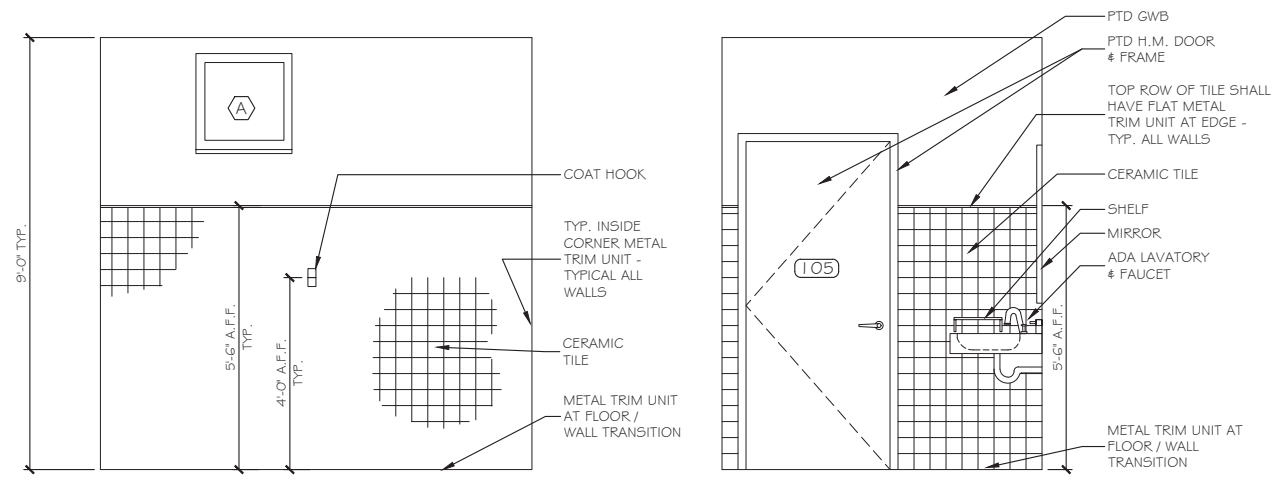
SHEET NUMBER: A07
CONTRACT: 2021.07
409 OF 431



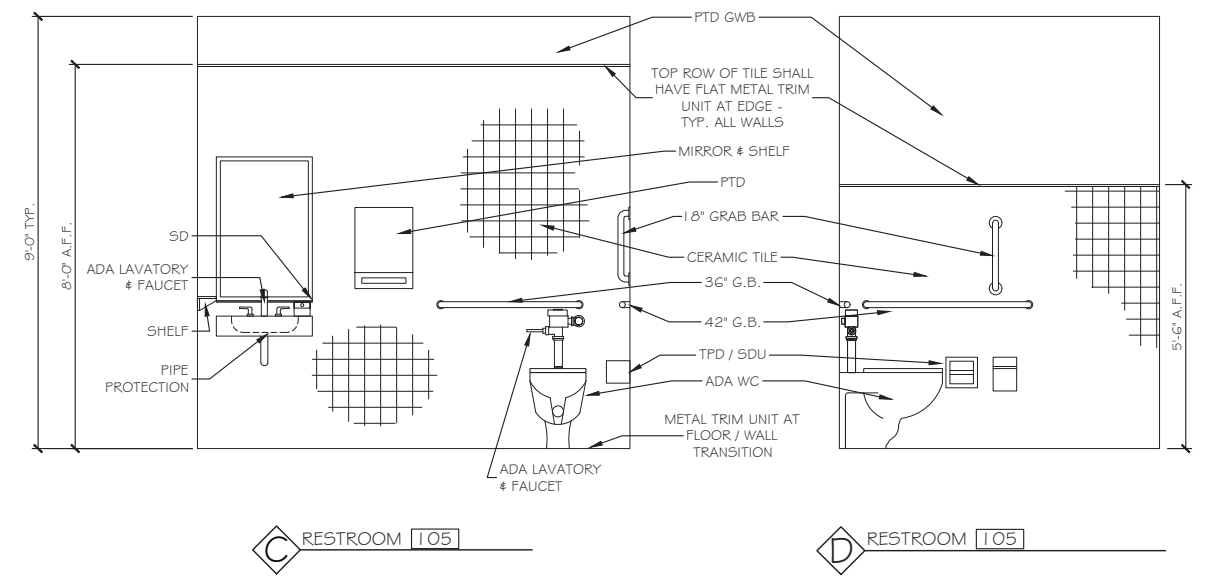
TOILET ACCESSORY ABBREVIATIONS	
TPD	TOILET PAPER DISPENSER
SDU	SANITARY DISPOSAL UNIT
GB	GRAB BAR
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER
CH	COAT HOOK
BDFD	BOTTLE FILL / DRINKING FOUNTAIN

EQUIPMENT TYPES:

- 1 MICROWAVE OVEN
- 2 REFRIGERATOR
- 3 LOCKERS - 2 TIER - 12" W x 18" D
- 4 TRASH BIN - N.I.C.
- 10 COFFEE MAKER - N.I.C.
- 11 BULLETIN BOARD - N.I.C. (INSTALL BLOCKING AT FRAMING)
- 12 RECYCLE BIN - N.I.C.



NOTES:
 1. SEE SHEET A13 FOR TOILET ACCESSORIES ADA MOUNTING HEIGHTS.
 2. INSTALL METAL TRIM UNITS AT ALL INTERIOR TILE CORNERS AT WALLS / FLOOR. INSTALL METAL TRIM CAP AT TOP OF WALL TILE.



① MENS 104 AND WOMENS 105 PLANS 1/2" = 1'-0" ② WOMEN'S 106 / MENS 107 FLOOR PLAN ELEVATIONS 1/2" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date	By	Date	
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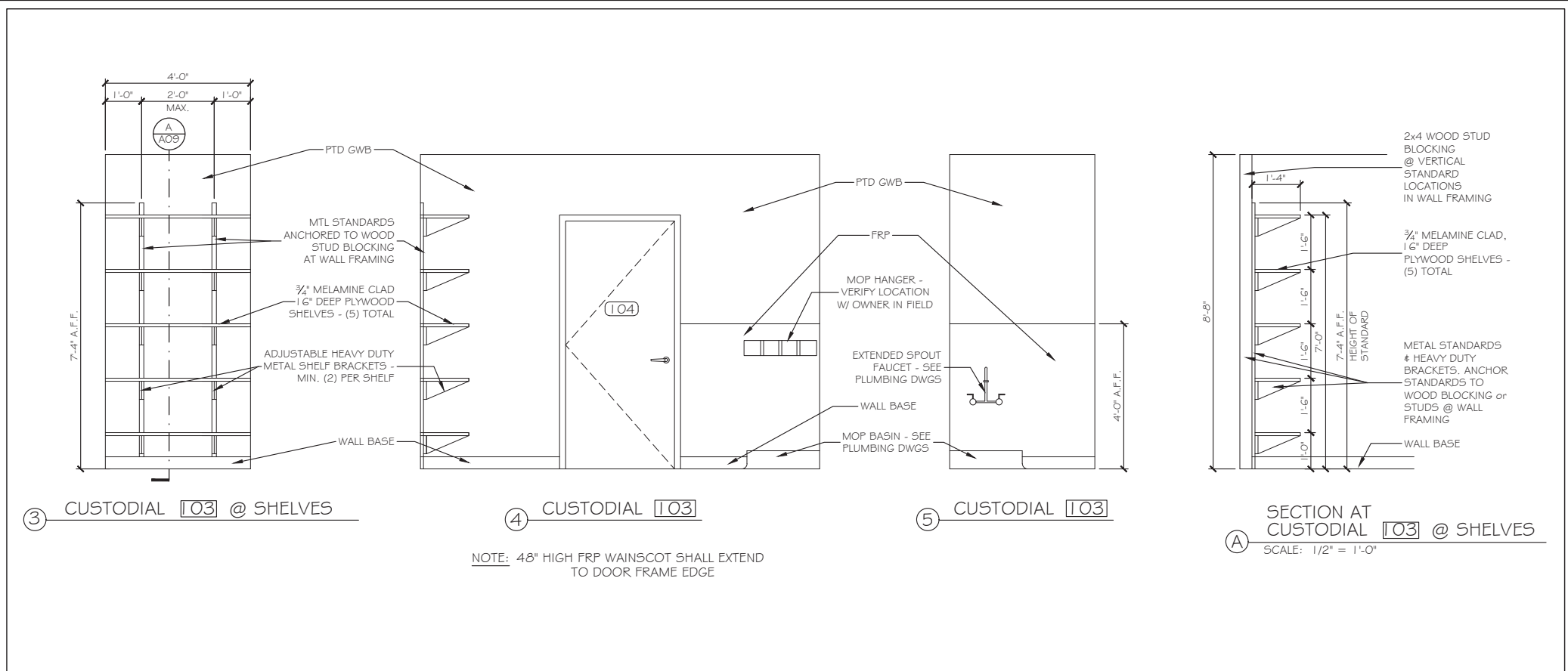
GRANT HAYS ASSOCIATES
 ARCHITECTURE & INTERIOR DESIGN
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THE GOLD STAR MEMORIAL HIGHWAY
 MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

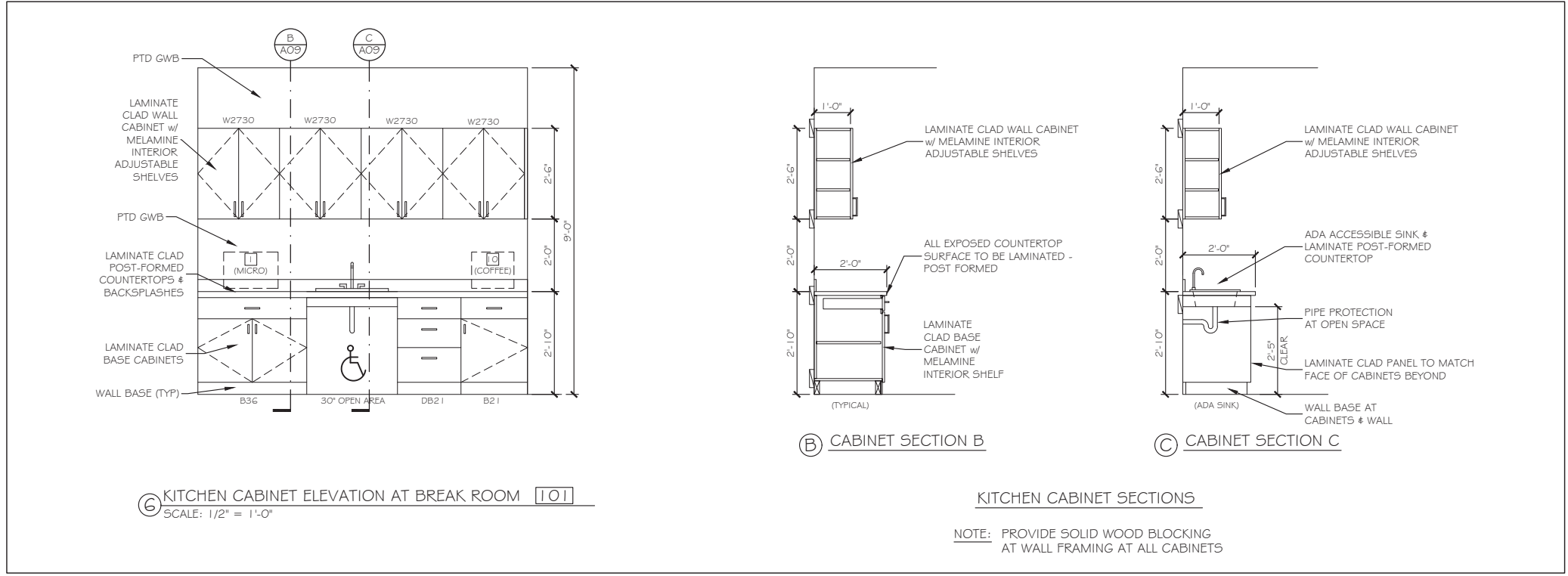
EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING TOILET ROOMS & DETAILS

SHEET NUMBER: A08
 410 OF 431

CONTRACT: 2021.07



① CUSTODIAL [103] INTERIOR ELEVATIONS 1/2" = 1'-0"



② BREAK ROOM [101] INTERIOR ELEVATION & SECTIONS 1/2" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date		By	Date
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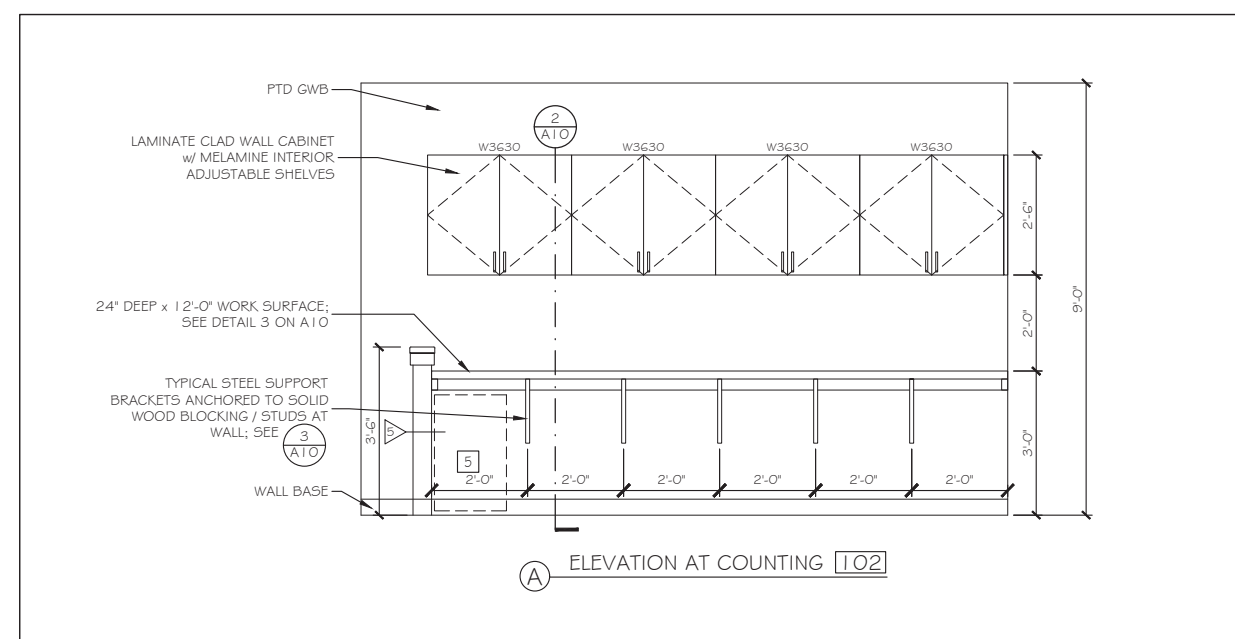
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THE GOLD STAR MEMORIAL HIGHWAY

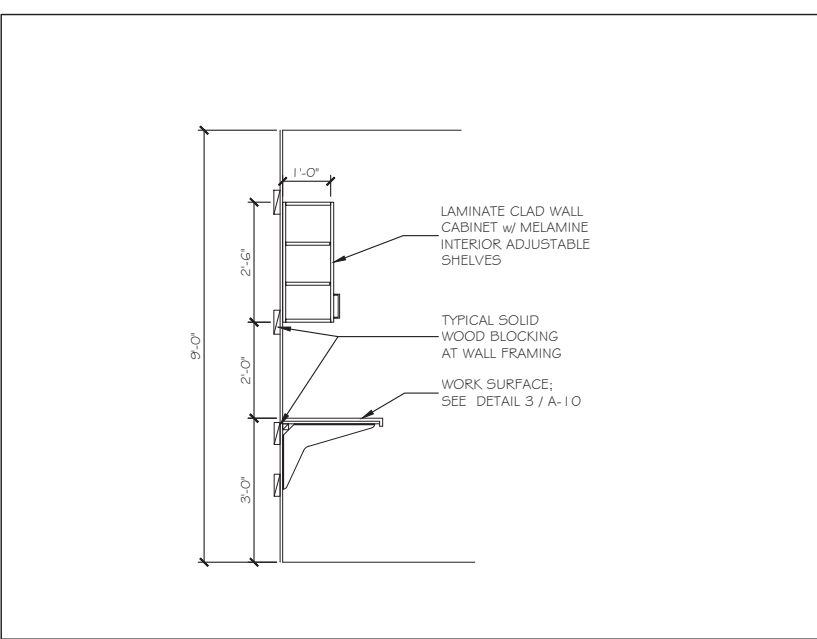
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
TOLL ADMINISTRATION BUILDING
INTERIOR ELEVATIONS & SECTIONS

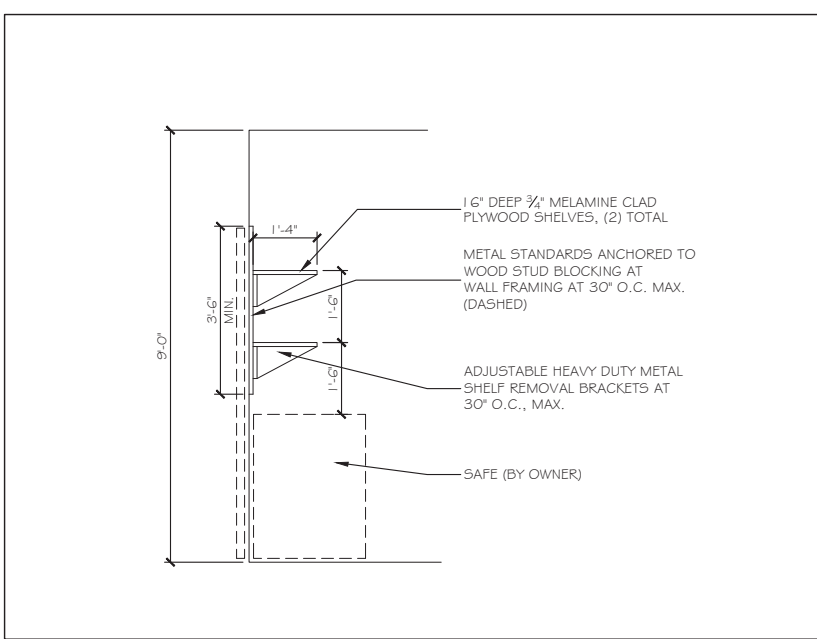
SHEET NUMBER: A09
CONTRACT: 2021.07
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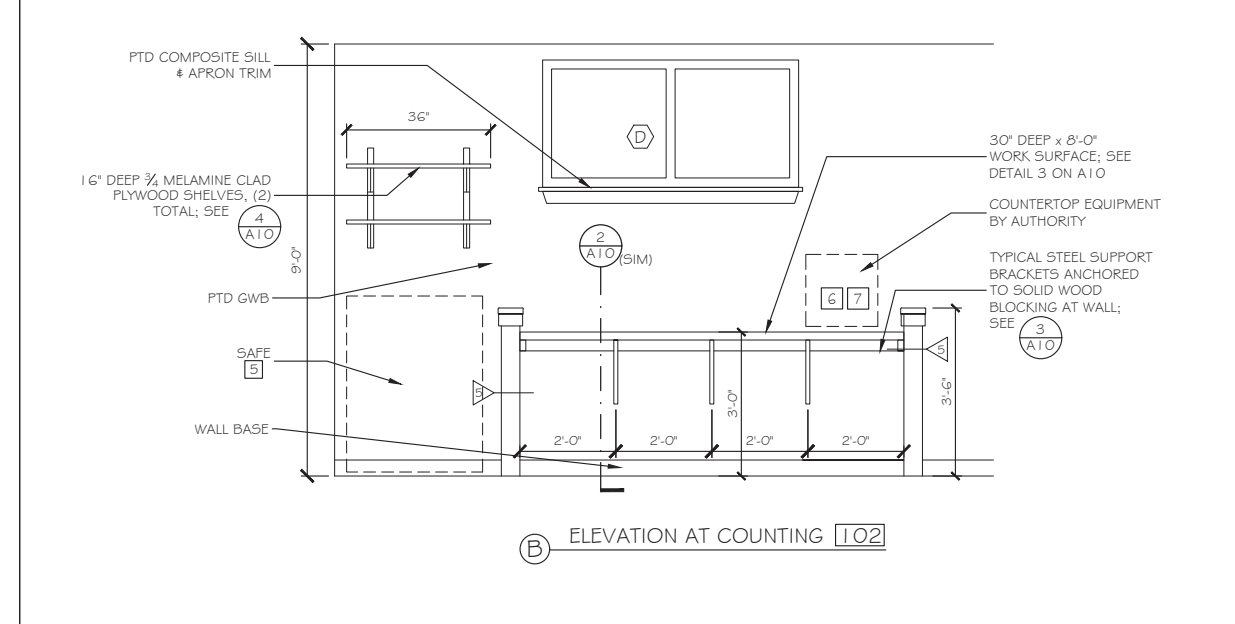
① ELEVATION AT COUNTING 102



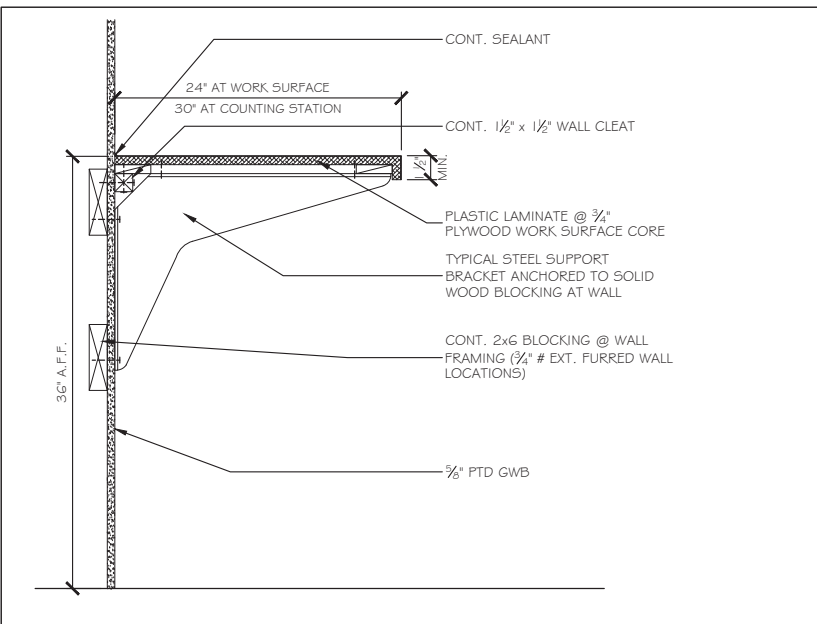
② CABINETS AND WORK SURFACES AT COUNTING 102 1/2" = 1'-0"



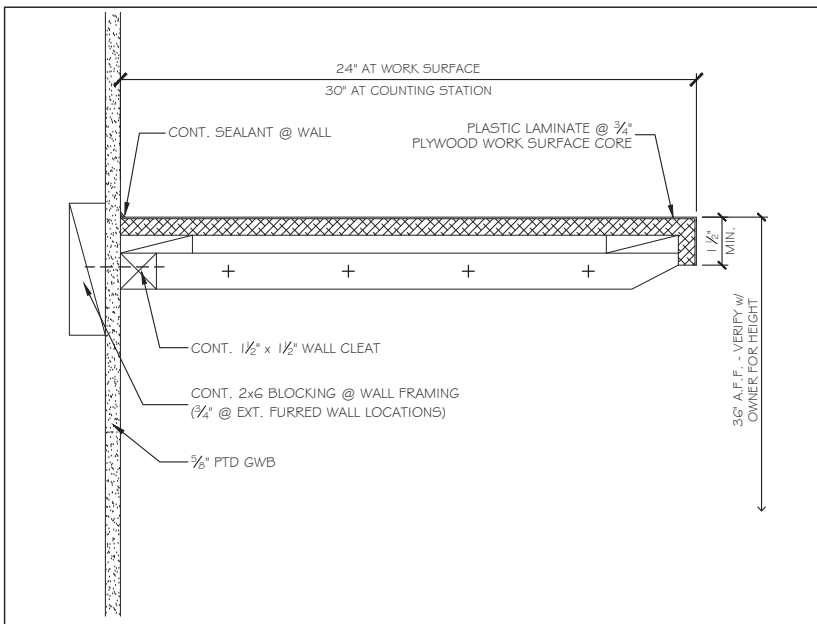
④ SECTION AT SAFE SHELVING 1/2" = 1'-0"



② ELEVATION AT COUNTING 102



③ WORK SURFACE SECTION DETAIL @ SUPPORT BRACKETS 1 1/2" = 1'-0"



⑤ WORK SURFACE SECTION DETAIL @ WALL CLEAT 3" = 1'-0"

① COUNTING 102 INTERIOR ELEVATIONS 1/2" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

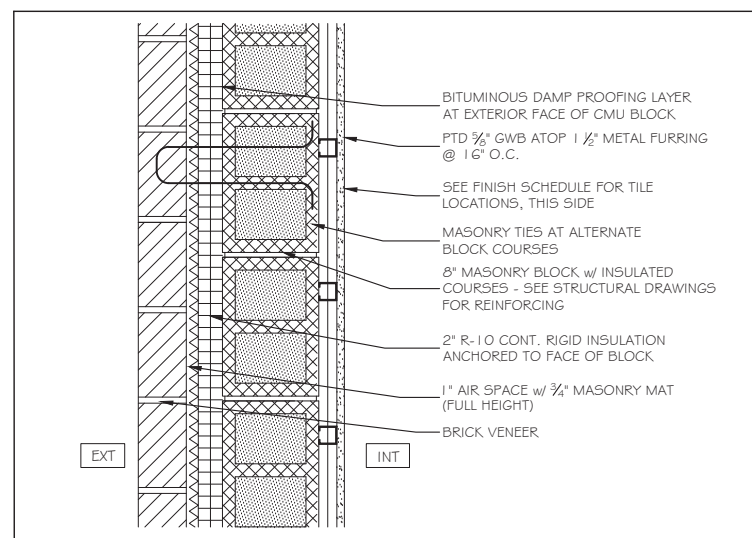
	By	Date	By	Date	
Designed	MFH	12/03/20	Checked	MGK	12/03/20
Drawn	MFH	12/03/20	In Charge of		

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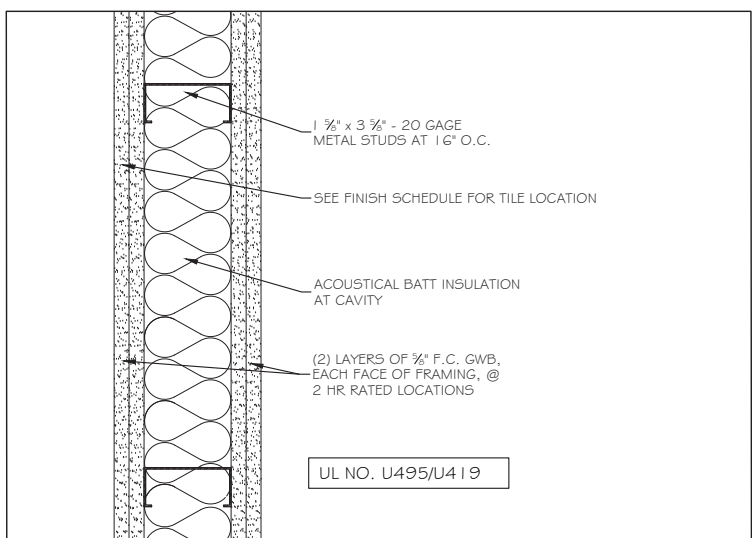
THE GOLD STAR MEMORIAL HIGHWAY
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING ELEVATIONS & SECTIONS AT COUNTING

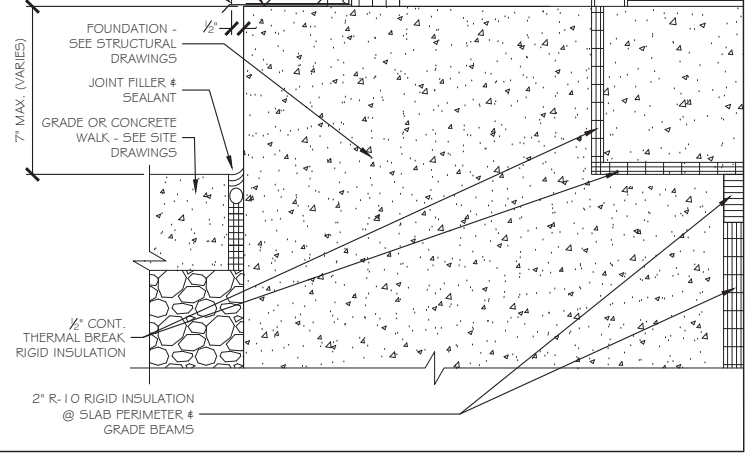
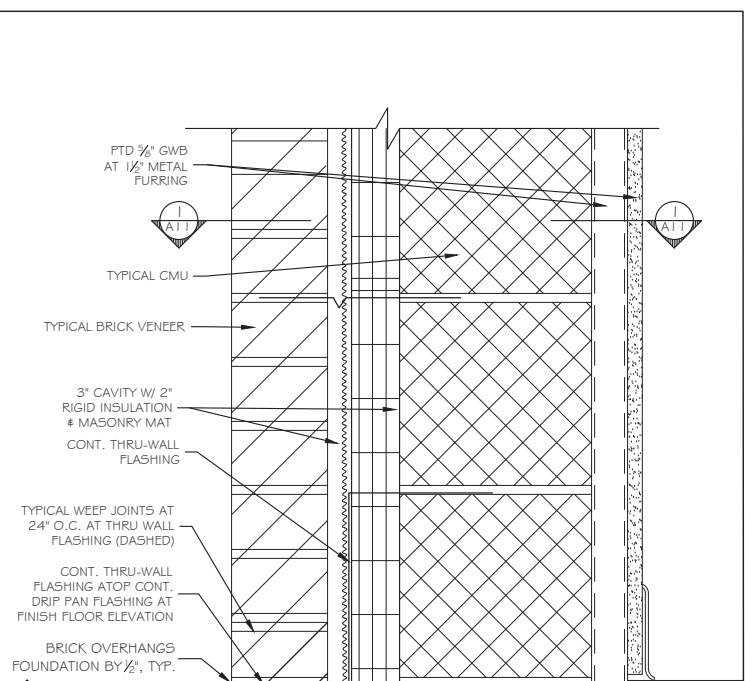
SHEET NUMBER: A10
CONTRACT: 2021.07
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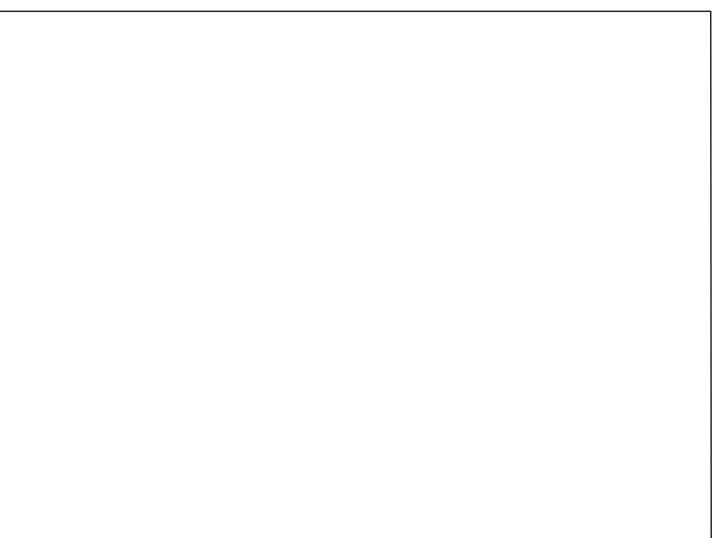
① EXTERIOR PARTITION 1 1/2" = 1'-0"



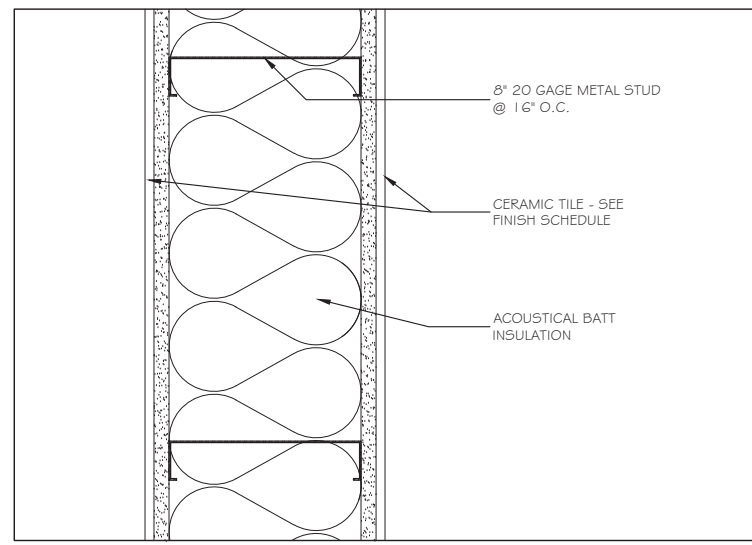
④ 2 HR FIRE RATED PARTITION TYPE 3" = 1'-0"



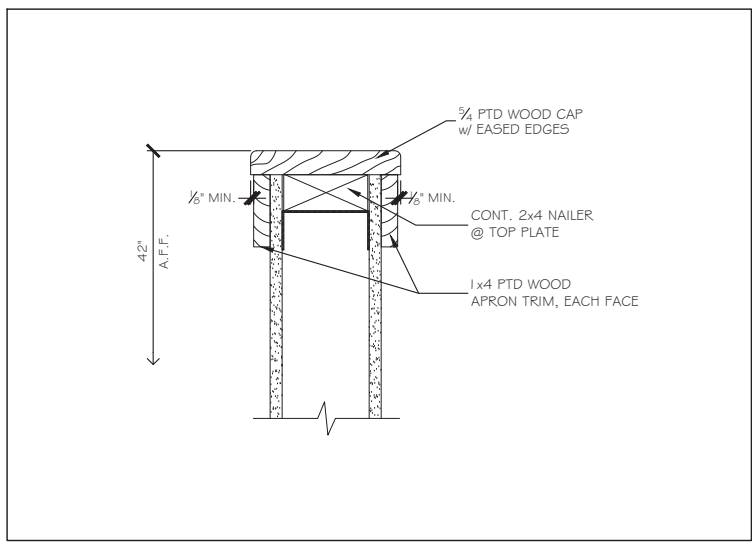
⑦ CAVITY WALL SECTION DETAIL 3" = 1'-0"



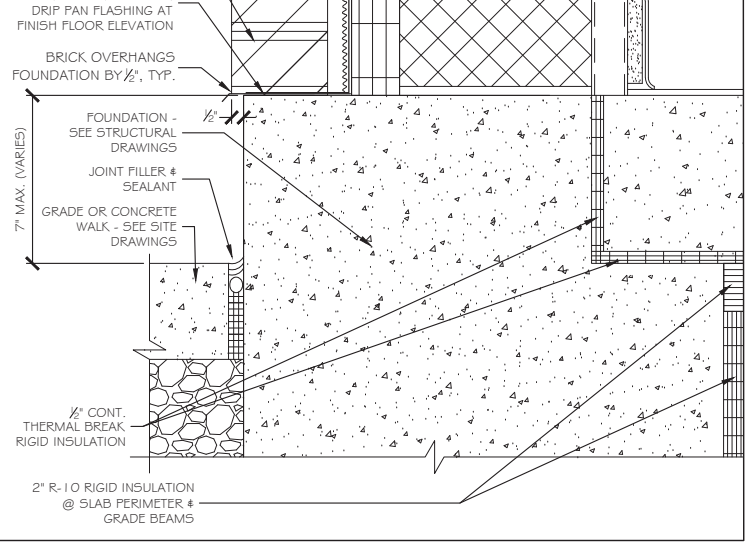
⑨ NOT USED



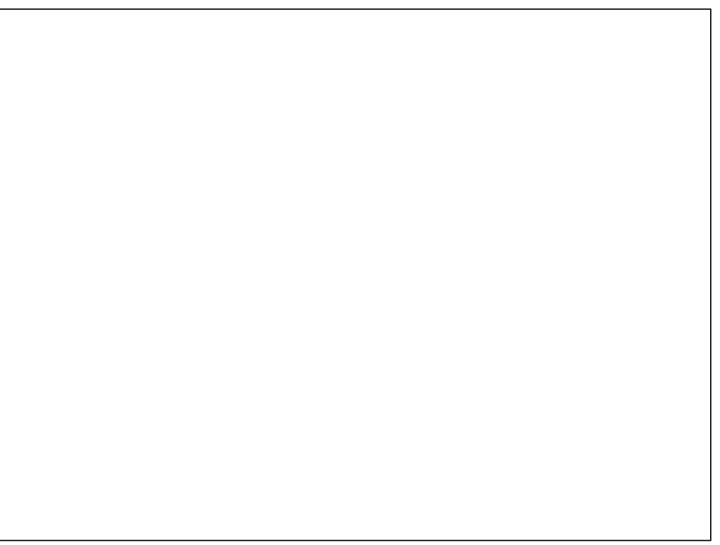
② PLUMBING PARTITION 3" = 1'-0"



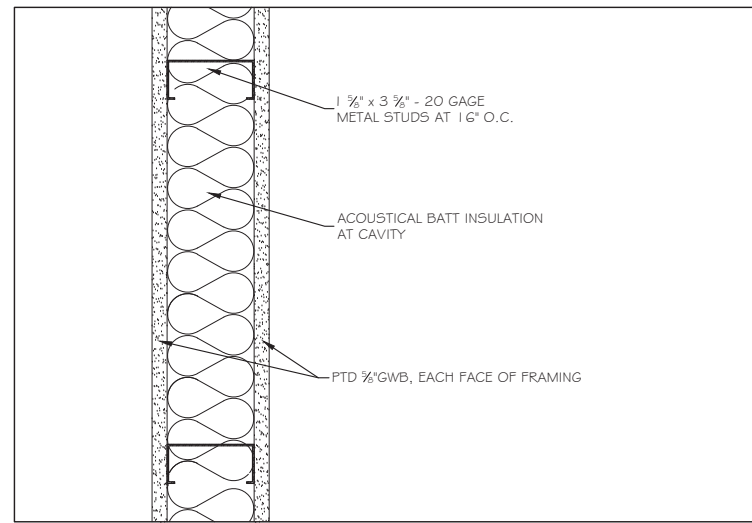
⑤ HALF WALL 3" = 1'-0"



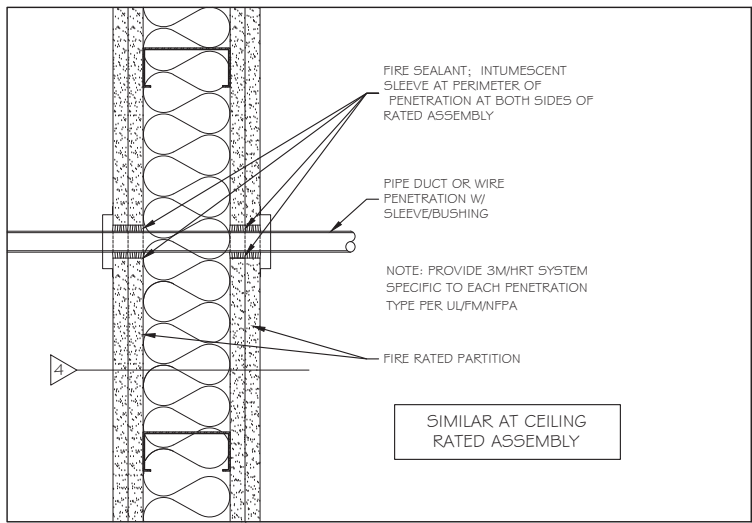
⑦ CAVITY WALL SECTION DETAIL 3" = 1'-0"



⑩ NOT USED



③ INTERIOR PARTITION 3" = 1'-0"



⑥ FIRE SEALANT AT PENETRATIONS 3" = 1'-0"



⑧ NOT USED



⑪ NOT USED

Scale: AS NOTED

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.					
	By	Date	By	Date	
Designed	MFH	12/03/20	Checked	MGK	12/03/20
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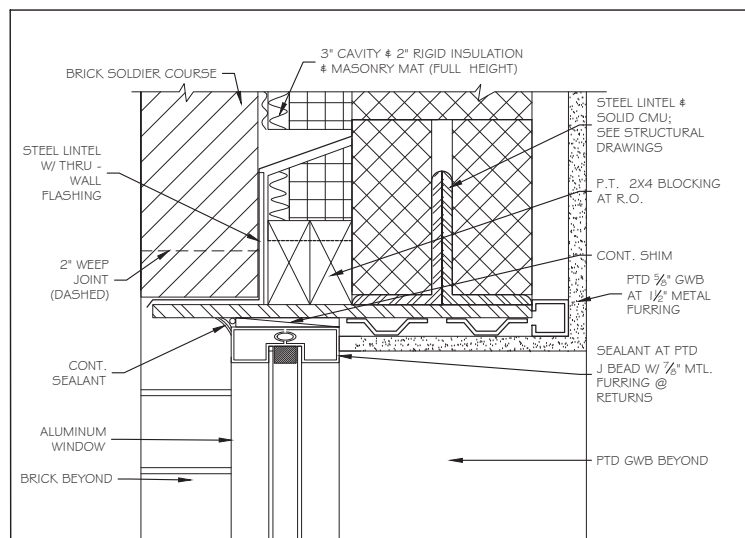
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
TOLL ADMINISTRATION BUILDING
PARTITION TYPES

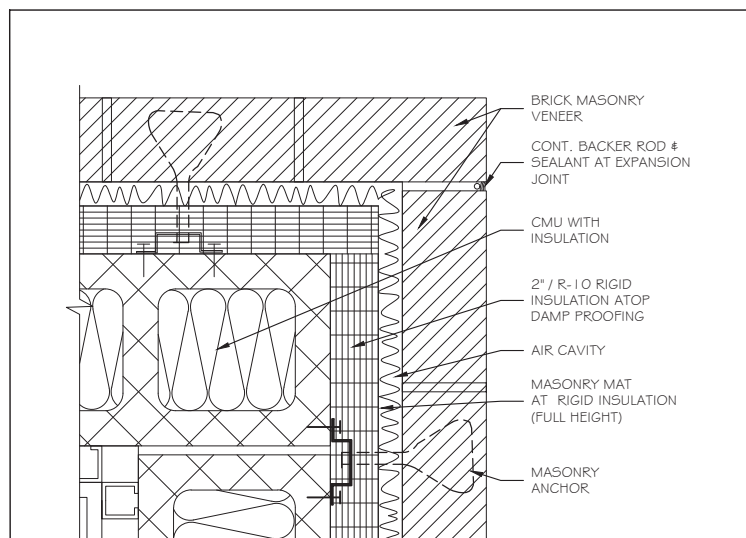
CONTRACT: 2021.07

SHEET NUMBER: A11

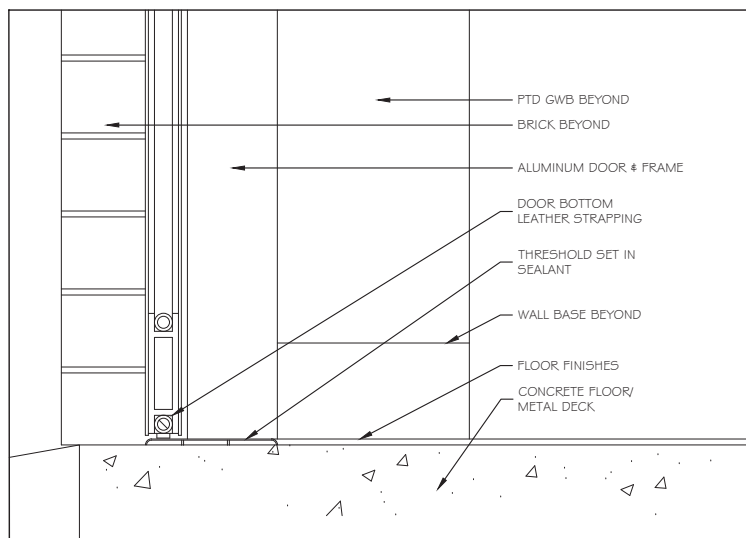
413 OF 431



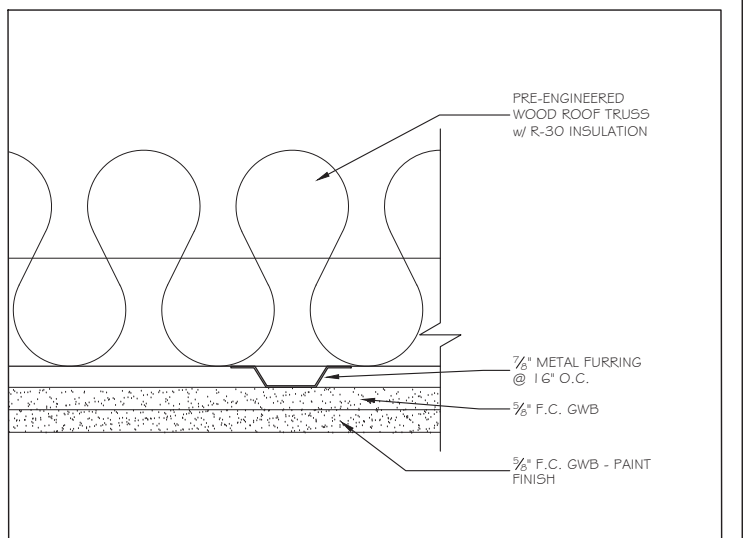
① EXTERIOR WINDOW HEAD @ STEEL FRAME 3" = 1'-0"



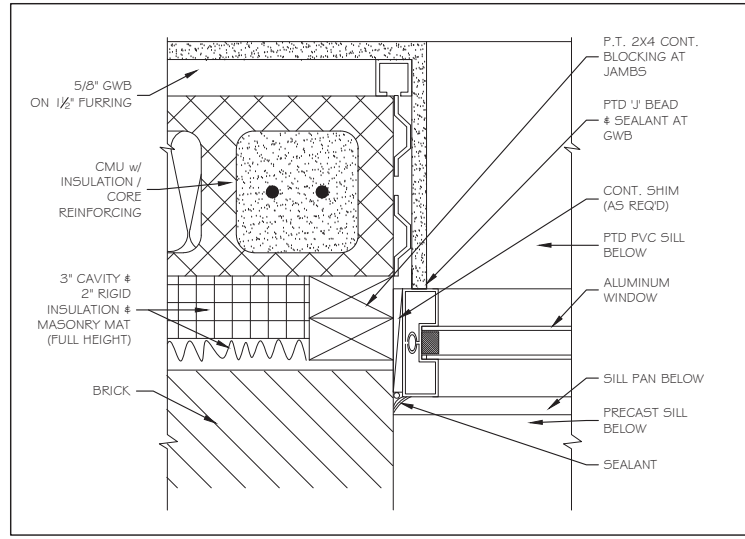
④ MASONRY EXPANSION JOINT DETAIL 3" = 1'-0"



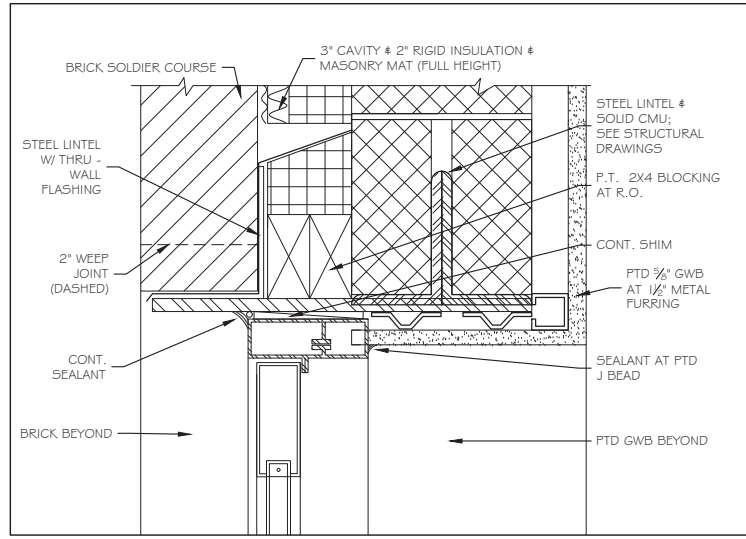
⑦ THRESHOLD DETAIL 3" = 1'-0"



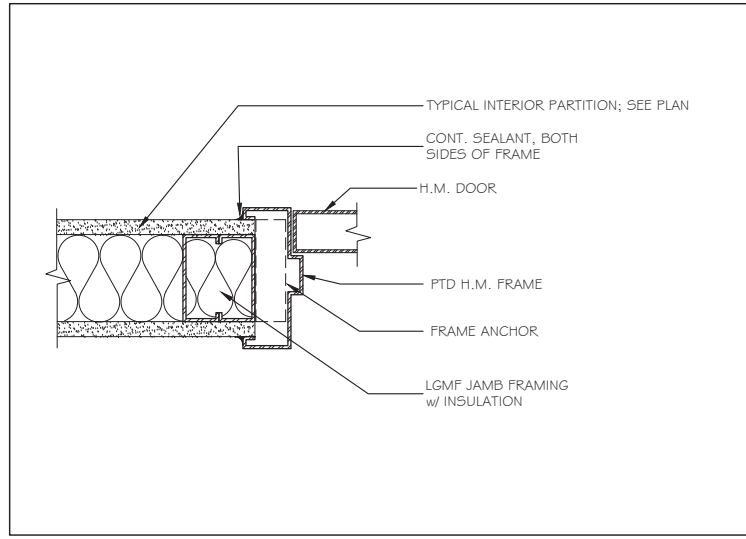
⑩ 2 HR RATED CEILING DETAIL AT WOOD TRUSS 3" = 1'-0"



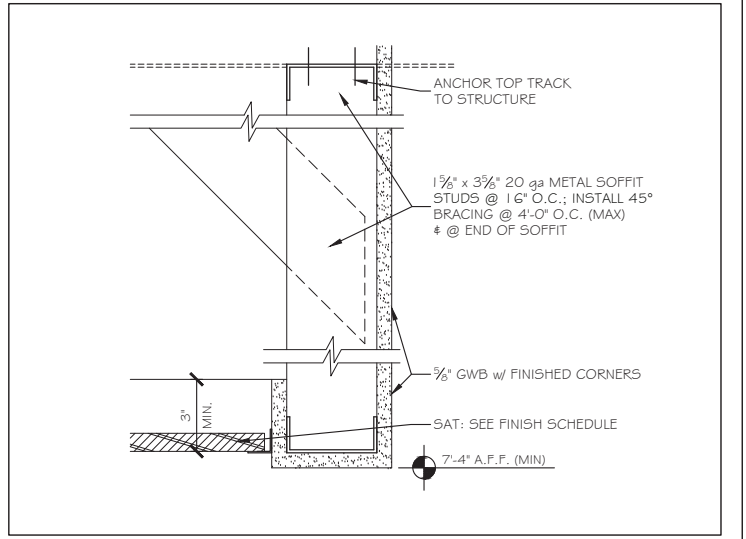
② EXTERIOR WINDOW JAMB 3" = 1'-0"



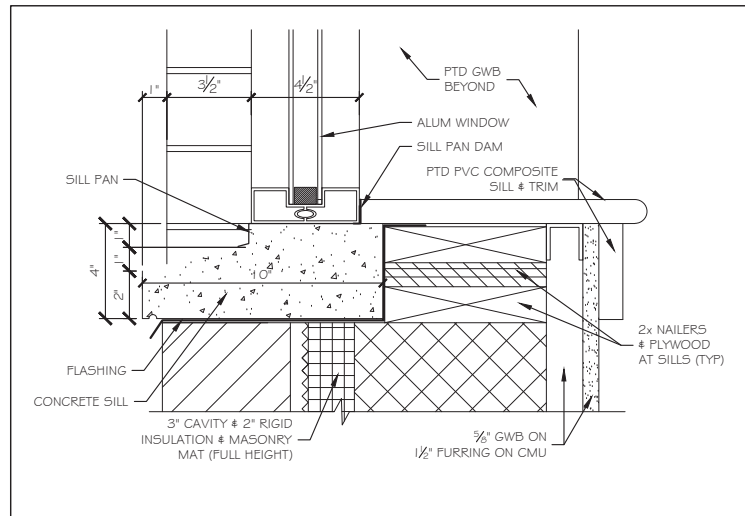
⑤ EXTERIOR DOOR HEAD @ STEEL FRAME 3" = 1'-0"



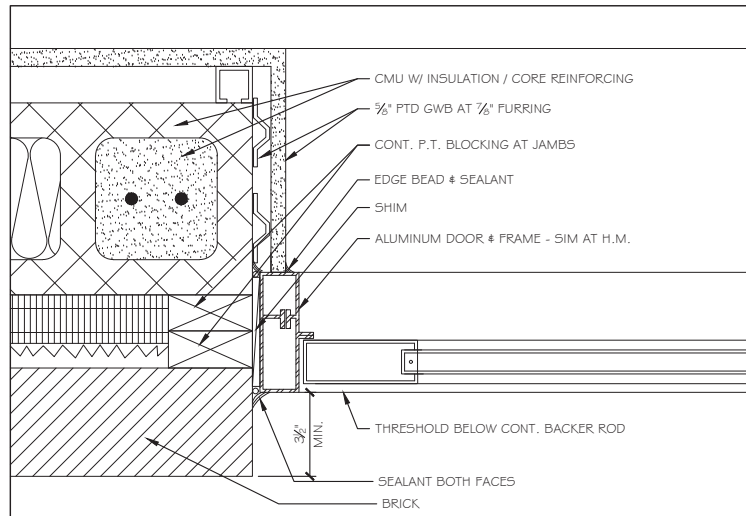
⑧ TYP. INTERIOR H.M. JAMB (HEAD SIM) 3" = 1'-0"



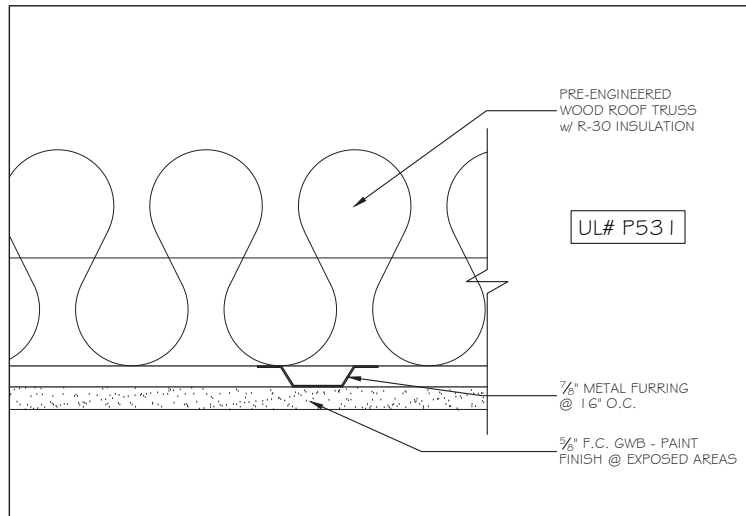
⑪ SOFFIT DETAIL AT BREAK ROOM 3" = 1'-0"



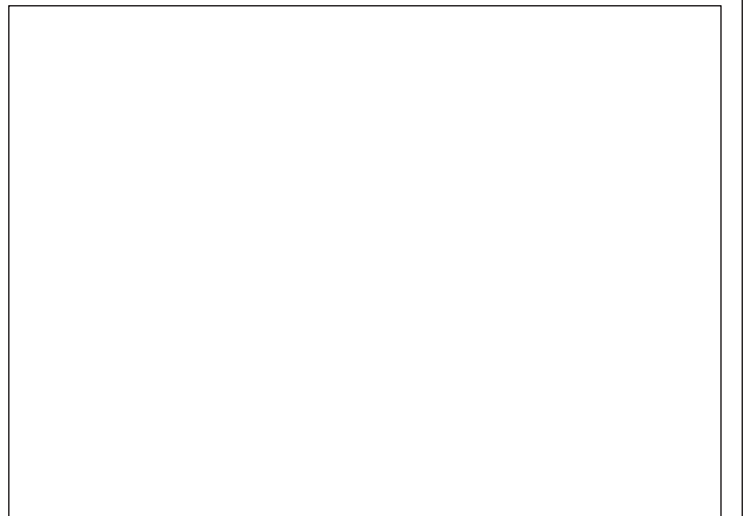
③ EXTERIOR WINDOW SILL 3" = 1'-0"



⑥ EXTERIOR DOOR JAMB DETAIL 3" = 1'-0"



⑨ HR RATED ROOF TRUSS DETAIL 3" = 1'-0"



⑫ NOT USED

Scale: AS NOTED

Designed by:
Michael F. Hays, RA

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date	By	Date	
Designed	MFH	12/03/20	Checked	MGK	12/03/20
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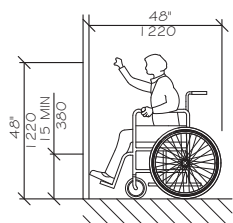
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
TOLL ADMINISTRATION BUILDING
DETAILS

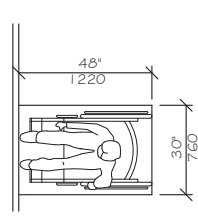
SHEET NUMBER: A12

CONTRACT: 2021.07

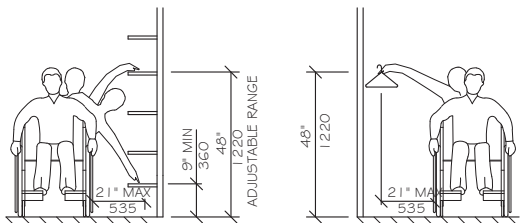
414 OF 431



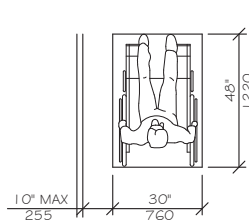
HIGH FORWARD REACH LIMIT
NTS



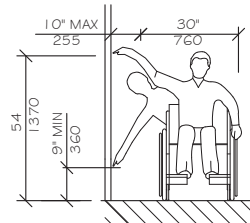
SHELVES
STORAGE SHELVES AND CLOSETS
NTS



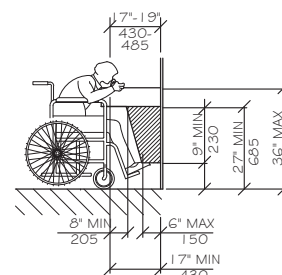
CLOSETS



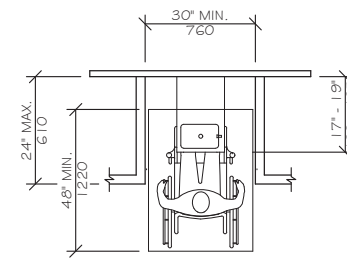
CLEAR FLOOR SPACE
PARALLEL APPROACH
NTS



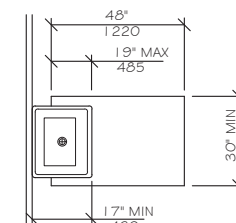
HIGH AND LOW
SIDE REACH LIMITS
NTS



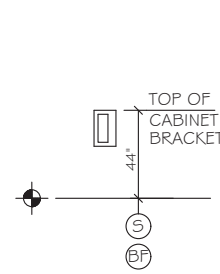
EQUIPMENT PERMITTED IN SHADED AREA
DRINKING FOUNTAIN SPOUT HEIGHT
AND KNEE CLEARANCE
NTS



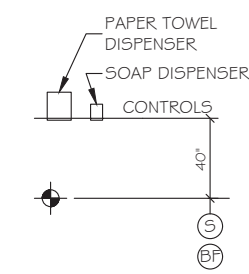
BOTTLE FILL /
DRINKING FOUNTAIN
NTS



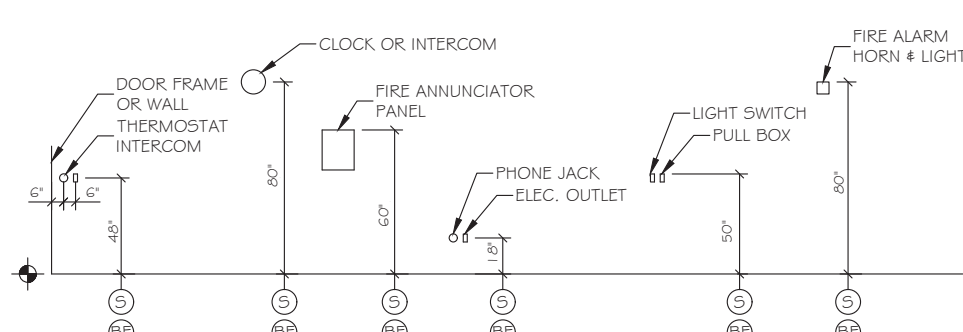
CLEAR FLOOR SPACE
AT LAVATORIES
NTS



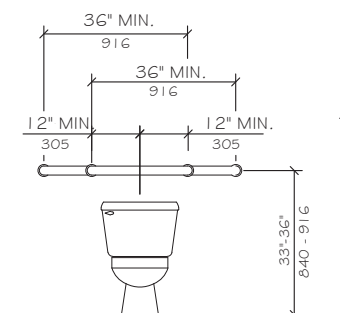
FIRE EXTINGUISHER
NTS



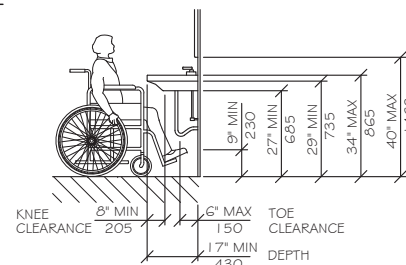
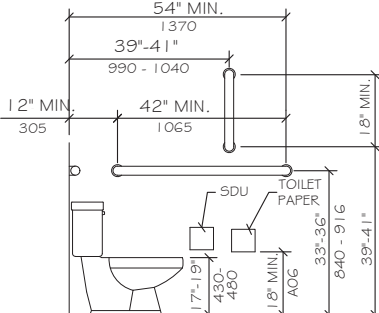
TOWEL & SOAP DISPENSERS
NTS



ELECTRICAL & FIRE PROTECTION DEVICES
(TYPICAL UNLESS OTHERWISE NOTED)
NTS



GRAB BARS AT WATER CLOSETS
NTS



LAVATORY CLEARANCES
NTS

LEGEND

- ⊙ STANDARD MOUNTING HEIGHT
- ⊕ BARRIER FREE ADULT MOUNTING HEIGHT
- ⊕ FINISH FLOOR LINE

NOTE

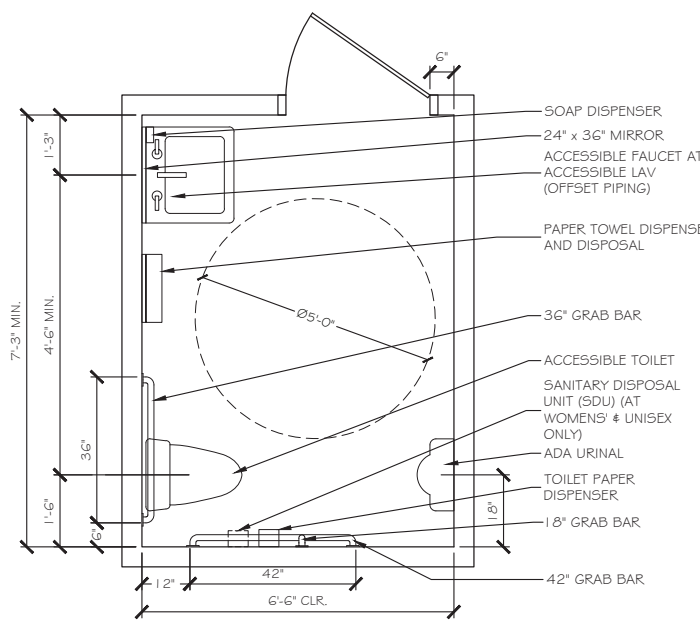
MOUNT ALL FIXTURES AT STANDARD MOUNTING HEIGHT UNLESS INDICATED ON PLAN BY A ⊕ SYMBOL. A ⊕ SYMBOL AT ANY ROOM SHALL INCLUDE ONE OF ANY FIXTURE AND ACCESSORY WITHIN THE ROOM.

ACCESSIBILITY ACCESSORY
MOUNTING HEIGHTS

GRAB BARS	33"-36"
TOILET PAPER HOLDER	19" MIN
TOWEL BAR/PAPER TOWEL DISPENSER	48" MAX
BUILT IN PAPER TOWEL DISPENSER	48" MAX
SOAP DISH/DISPENSER AT WALL	48" MAX
SANITARY DISPOSAL UNIT	19" MAX
MIRROR (BOTTOM)	40" MAX
SHELVES/STORAGE	48" MAX
ELECTRICAL SWITCHES/OUTLETS	48" MAX
COAT HOOKS/RODS	48" MAX
SIGNAGE (TO BRAILLE COMPONENT)	60" MAX

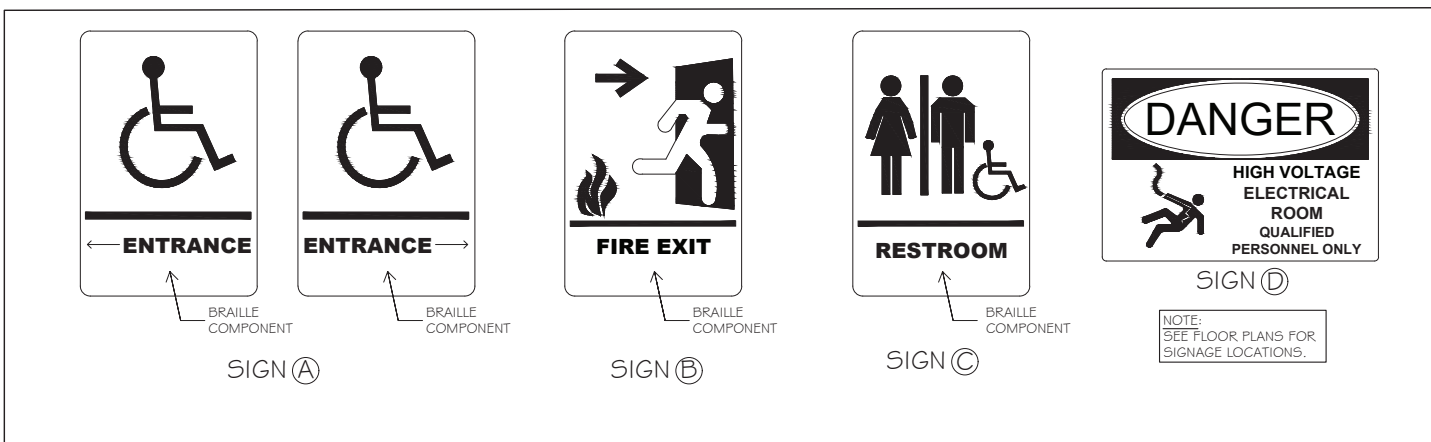
ACCESSIBILITY GENERAL NOTES

- DOORWAYS SHALL HAVE A MINIMUM CLEAR WIDTH OF 32" WITH THE DOOR OPEN 90 DEGREES. MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
- ALL DOORS SHALL HAVE LEVER HANDLE HARDWARE, EXCEPT AT SECURED STORAGE ROOMS, MECHANICAL ROOMS, AND ELEVATOR MACHINE ROOMS.
- ALL CLOSERS SHALL BE 5LB PULL MAXIMUM AT DOORS EQUIPPED WITH LEVER HANDLE HARDWARE.
- ALL DOORS WITH CLOSERS SHALL HAVE 18" CLEAR DISTANCE FROM THE LATCHSIDE OF THE OPENING TO ANY ADJACENT WALL OR OBSTRUCTION ON THE PULL SIDE OF THE OPENING.
- ALL DOORS WITH CLOSERS SHALL HAVE 12" CLEAR DISTANCE FROM THE LATCHSIDE OF THE OPENING TO ANY ADJACENT WALL OR OBSTRUCTION ON THE PUSH SIDE OF THE OPENING.
- ALL SIGNAGE SHALL BE MOUNTED 60" AFF TO BRAILLE COMPONENT AT LATCH-SIDE WALL OF DOORS AND OPENINGS.
- COMPLY WITH 2010 EDITION OF THE AMERICANS WITH DISABILITIES ACT.



TYPICAL ACCESSORIES DIAGRAM
NTS

NOTE: SEE FLOOR PLAN FOR ACTUAL ROOM LAYOUT.



ACCESSIBILITY SIGNAGE DETAILS

NO SCALE

Scale: NO SCALE

Designed by:

Michael F. Hays, RA

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date	By	Date	
Designed	MFH	12/03/20	Checked	MGK	12/03/20
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45
INTERCHANGE RECONFIGURATION
TOLL ADMINISTRATION BUILDING
ACCESSIBILITY DETAILS & NOTES

SHEET NUMBER: A13

CONTRACT: 2021.07

415 OF 431

GENERAL NOTES:

- THE NOTES ON THE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. IN ADDITION TO GENERAL NOTES, SEE SPECIFICATIONS FOR REQUIREMENTS.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT, OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- DO NOT SCALE PLANS.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
- ALL PROPRIETARY PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE ERECTION IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCING TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

DESIGN LOADS:

- BUILDING CODE: IBC (2015) INTERNATIONAL BUILDING CODE AND ASCE 7-LATEST EDITION.
- DESIGN LIVE LOADS: (GROUND SNOW LOAD = 60 PSF)
 - ROOF.....45 PSF + DRIFT AS APPLICABLE
 - FLOOR.....100 PSF
 - FALL PROTECTION5,000 LBS (IN ANY DIRECTION)
 - PER ANSI / ASSP 2359.11-2014 PART 1.2.5 AND OSHA CFR PART 1910.140 (c) (13).
- DESIGN WIND LOADS ARE BASED ON EXPOSURE C USING 115 MPH BASIC WIND SPEED.
- SEISMIC DESIGN UTILIZES A BEARING WALL SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS. ANALYSIS PROCEDURE SHALL BE EQUIVALENT LATERAL FORCE PROCEDURE PER IBC 2015. ANALYSIS PROCEDURE SHALL BE EQUIVALENT LATERAL FORCE PROCEDURE PER IBC 2015.

FOUNDATION NOTES:

- FOUNDATIONS HAVE BEEN DESIGNED TO CONFORM WITH RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT PROVIDED BY HNTB CORPORATION DATED JULY 26, 2019, TITLED "REPORT ON SUBSURFACE AND FOUNDATION INVESTIGATION".
- FOUNDATION PREPARATION AND EXCAVATION SHALL CONFORM WITH THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT
- GRADE BEAMS SHALL BE FOUNDED ON UNDISTURBED NATIVE SOIL OR COMPACTED STRUCTURAL FILL.
- GRADE BEAMS SHALL BE FOUNDED A MINIMUM OF 4'-0" BELOW FINISHED SITE GRADE.
- SLABS SHALL BEAR ON A MINIMUM OF 12" OF COMPACTED STRUCTURAL FILL OR COMPACTED 3/8" CRUSHED STONE. IF LOOSE OR UNDESIRABLE FILLS ARE ENCOUNTERED AT THE SLAB SUBGRADE LEVEL, THEY SHALL BE OVER EXCAVATED TO THE SURFACE OF THE NATURAL SOIL AND REPLACED WITH STRUCTURAL FILL. REFER TO DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. MOIST CURE SLABS IN ACCORDANCE WITH ACI.
- STRUCTURAL FILL SHALL BE MAINE DOT AGGREGATE BASE COURSE - TYPE A GRAVEL SHALL BE USED AT ALL LOCATIONS BELOW GRADE BEAMS AND SLABS ADJACENT TO THE GRADE BEAMS. PRIOR TO THE PLACEMENT OF STRUCTURAL FILL, REMOVE ALL TOPSOIL AND OTHER SUITABLE MATERIAL. COMPACTED STRUCTURAL FILL SHALL CONSIST OF CLEAN GRANULAR MATERIAL FREE OF ORGANICS, LOAM, TRASH, SNOW, ICE FROZEN SOIL OR ANY OTHER OBJECTIONABLE MATERIAL.

FOUNDATION NOTES (CONT.):

- STRUCTURAL FILL (OR 3/8" CRUSHED STONE) BENEATH SLABS SHALL BE PLACED IN LAYERS NOT EXCEEDING 6 INCHES IN LOOSE MEASURE AND COMPACTED BY SELF-PROPELLED COMPACTION EQUIPMENT AT APPROXIMATE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY OF AT LEAST 95% OF THE MAXIMUM IN PLACE DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557). FOR STRUCTURAL FILL OR 100% OF THE RODDED UNIT WEIGHT AS DETERMINED BY ASTM C-29 FOR 3/8" CRUSHED STONE.
- UNDERDRAINS SHALL BE PLACED AS SHOWN ON THE SITE DRAWINGS. UNDERDRAINS SHALL BE INSTALLED TO POSITIVELY DRAIN TO A SUITABLE DISCHARGE POINT AWAY FROM THE STRUCTURE. REFER TO SITE DRAWINGS FOR ADDITIONAL INFORMATION.
- BACKFILL BOTH SIDES OF GRADE BEAMS SIMULTANEOUSLY.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO ACI 318-LATEST EDITION. SEE CONCRETE SPECIFICATION 502 FOR BUILDING FOUNDATION.
- CONCRETE STRENGTH AT 28 DAYS SHALL BE:
 - A. MTA CLASS AAA - 4500 PSI FOR GRADE BEAMS AND PILE CAPS.
 - B. 4000 PSI FOR ALL SLABS.
- ALL CONCRETE SHALL BE AIR ENTRAINED 4% TO 6% PER THE SPECIFICATIONS.
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- CONCRETE MATERIALS:
 - A. PORTLAND CEMENT: ASTM C 150, TYPE I OR TYPE II UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT. USE ONE BRAND OF CEMENT THROUGHOUT PROJECT, UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT.
 - B. NORMAL WEIGHT AGGREGATES: ASTM C 33. PROVIDE FROM A SINGLE SOURCE FOR EXPOSED CONCRETE. DO NOT USE AGGREGATES CONTAINING SOLUBLE SALTS OR OTHER SUBSTANCES SUCH AS IRON SULFIDES, PYRITE, MARCASITE, OR OCHRE WHICH CAN CAUSE STAINS ON EXPOSED CONCRETE SURFACES.
 - C. LIGHT WEIGHT AGGREGATES: ASTM C 330.
 - D. WATER: POTABLE.
 - E. AIR-ENTRAINING ADMIXTURE: ASTM C 260.
 - F. HIGH-RANGE WATER-REDUCING ADMIXTURE (SUPER PLASTICIZER): ASTM C 494, TYPE F OR TYPE G CONTAINING NOT MORE THAN 1% CHLORIDE IONS.
 - G. FIBER REINFORCEMENT SHALL BE ADDED AND DISTRIBUTED PRIOR TO INCORPORATION OF SUPER PLASTICIZER.
 - H. NORMAL RANGE WATER REDUCING ADMIXTURE: ASTM C 494 TYPE A CONTAINING NO CALCIUM CHLORIDE.
 - I. ACCELERATING ADMIXTURE: ASTM C 494 TYPE C OR E.
 - J. CALCIUM CHLORIDE NOT PERMITTED.
- PROVIDE PVC OR HDG STEEL AS INDICATED SLEEVES WHERE PIPES PASS THROUGH CONCRETE WALLS OR SLABS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS, AND SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI 315-LATEST EDITION.
- WELDED WIRE FABRIC SHALL BE PROVIDED IN FLAT SHEETS.
- FIBER REINFORCED CONCRETE SHALL CONFORM TO ASTM C-1116.
- COMPLETE SHOP DRAWINGS AND SCHEDULES OF ALL REINFORCING STEEL SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF THAT PORTION OF THE WORK. ALL ACCESSORIES MUST BE SHOWN ON THE SHOP DRAWINGS. SUBMIT (2) BLACK LINE PRINTS TO THE ENGINEER/ARCHITECT.
- SPLICES OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318. SPLICES OF WWF SHALL BE 6" MINIMUM.
- CONCRETE FINISHES: SEE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR APPLICABLE FINISHES.
- ANCHOR BOLTS SHALL CONFORM TO ASTM A36 HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE ON PLAN.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF DOOR BONDOUT LOCATIONS, SLAB DEPRESSION & OTHER REQUIRED BONDOUTS. COORDINATE LOCATION OF BONDOUTS WITH ARCHITECTURAL, MECHANICAL & PLUMBING, ELECTRICAL AND KITCHEN EQUIPMENT VENDORS AS NECESSARY TO PROPERLY INSTALL EACH SPECIFIC ITEM.

PILE FOUNDATION NOTES:

- PILES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 501, FOUNDATION PILES.
- THE ALLOWABLE CAPACITY IN AXIAL COMPRESSION OF THE PILES ARE:
 - NB TOLL BUILDING: 271 KIPS (AFTER DEDUCTION OF 69 KIPS FOR DOWN DRAG)
 - SB TOLL BUILDING: 224 KIPS (AFTER DEDUCTION OF 200 KIPS FOR DOWN DRAG)
- PILES SHALL BE DRIVEN TO THE FOLLOWING ULTIMATE CAPACITY:
 - NB TOLL BUILDING: 851 KIPS
 - SB TOLL BUILDING: 1062 KIPS
- ESTIMATE OF PILES REQUIRED:
 - NB TOLL BUILDING: 6-HP 14x89 @ 50 FEET (MIN. TIP ELEVATION 14 FEET)
 - SB TOLL BUILDING: 6HP 14x105 @ 105 FEET (MIN. TIP ELEVATION -28 FEET)
- ALL PILES SHALL BE EQUIPPED WITH A PILE TIP IN ACCORDANCE WITH STANDARD SPECIFICATIONS SUBSECTION 501.048, PREFABRICATED PILE TIPS.
- THE CONTRACTOR SHALL UTILIZE THE SAME WAVE EQUATION ANALYSIS, DYNAMIC LOAD TESTS RESULTS, AND FINAL DRIVING CRITERIA AS FOR THE TOTAL SLAB ADJACENT TO EACH TOLL BUILDING.
- H-PILE MATERIAL SHALL BE ASTM GRADE A572, GRADE 50.
- SPLICING OF PILES SHALL NOT BE PERMITTED WITHIN 30 FEET OF THE DESIGN CUT-OFF (TOP OF PILE ELEVATION) WITHOUT THE APPROVAL OF THE ENGINEER. WELDING OF PILE SPLICES AND ASSOCIATED NONDESTRUCTIVE TESTING SHALL BE PERFORMED BY PREQUALIFIED WELDERS IN ACCORDANCE WITH THE REQUIREMENTS OF STANDARD SPECIFICATIONS SECTION 504, STRUCTURAL STEEL, AND AMERICAN WELDING SOCIETY (AWS) D1.5 CODE.
- PILES SHALL BE DRIVEN TO AT LEAST THE MINIMUM PILE TIP ELEVATION SPECIFIED IN NOTE 4. CEASE PILE INSTALLATION AND NOTIFY THE RESIDENT IF MINIMUM TIP CAN NOT BE REACHED.

MASONRY NOTES:

- ALL HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL BE ASTM C90 GRADE N, TYPE I STANDARD WEIGHT STANDARD BLOCKS INCLUDING STRETCHERS & CORNER BLOCKS UNLESS NOTED OTHERWISE.
- ALL LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM ASTM C90 GRADE N, TYPE I STANDARD WEIGHT STANDARD BLOCKS INCLUDING STRETCHERS & CORNER BLOCKS.
- MASONRY PRISM STRENGTH (F_m) SHALL BE 1,500 PSI.
- MORTAR SHALL CONFORM TO ASTM SPECIFICATION C270, TYPE M OR S.
- CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND.
- WALL PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECT, OWNERS AND VENDORS/DESIGNERS.
- PROVIDE JOINT REINFORCING PER DRAWINGS & SPECIFICATIONS IN ALL CONCRETE MASONRY UNIT CONSTRUCTION.
- ALL MASONRY REINFORCEMENT SHALL BE SPLICED 48 BAR DIAMETERS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315-LATEST EDITION.
- MASONRY WALLS WHICH SUPPORT STRUCTURAL MEMBERS SHALL HAVE CELLS GROUDED SOLID FULL HEIGHT UNDER BEARING WITH 2-#6 MINIMUM VERTICAL REINFORCING BAR IN EACH CELL UNO ON PLAN.
- BOND BEAMS SHALL BE FILLED WITH GROUT CAPABLE OF ACHIEVING 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. REINFORCING SHALL BE SUPPORTED PRIOR TO PLACING CONCRETE TO PROVIDE A MINIMUM 1/2" CLEARANCE AROUND ALL BARS.
- CELLS OF MASONRY UNITS CONTAINING VERTICAL REINFORCING SHALL BE FILLED WITH GROUT UNLESS OTHERWISE NOTED. MAXIMUM GROUT LIFT WITHOUT CLEANOUTS AND INSPECTION SHALL BE 4'-0". SUPPORT ALL VERTICAL BARS IN UNITS AS SHOWN ON THE DRAWINGS.
- PROVIDE STEEL LINTELS FOR ALL MASONRY OPENINGS UNLESS CMU LINTEL IS INDICATED. REFER TO LINTEL SCHEDULE FOR LINTEL SIZES. ALL LINTELS USED IN EXTERIOR MASONRY WALLS SHALL BE HOT DIPPED GALVANIZED.

LINTEL SCHEDULE	
MASONRY OPENING	LINTEL SIZE
UP TO 3'-0"	L3 1/2x3 1/2x5/16
3'-1" - 4'-6"	L4x3 1/2x5/16 (4" LEG VERT.)
4'-7" - 6'-0"	L5x3 1/2x5/16 (5" LEG VERT.)
6'-1" - 8'-0"	L6x3 1/2x5/16 (6" LEG VERT.)
NOTES:	
1. PROVIDE LINTELS OVER ALL OPENINGS EXCEPT WHERE LINTEL BLOCKS ARE PROVIDED.	
2. PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. FOR 6" WALLS, PROVIDE WT OR BUILT-UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN 1 1/2 TIMES THE ANGLE PROPERTIES FOR A 4" WALL THICKNESS.	
3. PROVIDE 8" OF BEARING @ EACH END OF ALL LINTELS.	
4. ALL EXTERIOR LINTELS SHALL BE HOT-DIPPED GALVANIZED.	

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL"-NINTH EDITION.
- STRUCTURAL STEEL:
 - A. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (F_y = 50 KSI)
 - B. STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500 GR-B
 - C. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53, TYPE E OR S
- THE FABRICATOR SHALL DESIGN CONNECTIONS FOR THE REACTIONS SHOWN ON THE DRAWINGS OR THE MAXIMUM END REACTION THAT CAN BE PRODUCED BY A Laterally SUPPORTED UNIFORMLY LOADED BEAM FOR EACH GIVEN BEAM SIZE AND SPAN.
- FIELD CONNECTIONS SHALL BE BOLTED USING 3/4" DIAMETER ASTM A325 HIGH STRENGTH BOLTS EXCEPT WHERE FIELD WELDING IS INDICATED ON THE DRAWINGS.
- ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. WELDING ELECTRODES SHALL BE E70XX.
- STRUCTURAL STEEL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, HOT DIPPED.

TIMBER FRAMING NOTES:

- ALL TIMBER FRAMING SHALL BE IN ACCORDANCE WITH THE AITC TIMBER CONSTRUCTION MANUAL OR THE NATIONAL DESIGN SPECIFICATION (NDS) - LATEST EDITION
- INDIVIDUAL TIMBER FRAMING MEMBERS SHALL BE VISUALLY GRADED, MINIMUM GRADE #2 SPRUCE-PINE-FIR (SPF), KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT.
- TIMBER SHALL BE SOUTHERN YELLOW PINE TREATED WITH ACQ WATER BORNE PRESERVATIVE IN ACCORDANCE WITH AWP A TREATMENT C1 WITH 0.40 PCF RETAINAGE FOR ITEMS IN CONTACT WITH ROOFING, MASONRY OR CONCRETE WITH 0.60 PCF RETAINAGE FOR ITEMS IN CONTACT WITH EARTH.
- METAL CONNECTORS SHALL BE USED AT ALL TIMBER TO TIMBER CONNECTIONS OR AS NOTED ON THE DESIGN DRAWINGS. ALL METAL CONNECTORS IN CONTACT WITH PRESSURE TREATED TIMBER SHALL BE HOT-DIPPED GALVANIZED.
- PROVIDE SIMPSON H2.5A HURRICANE ANCHORS OR SIMPSON SDWC 15600 WOOD SCREWS (FASTENED PER MANUFACTURERS' WRITTEN INSTRUCTIONS) WHERE TIMBER FRAMING AND/OR TRUSSES BEAR ON BEARING WALLS AND STRUCTURAL BEAMS.
- NAILS AND SCREWS NOT SPECIFIED SHALL CONFORM WITH IBC 2015. ALL NAILS AND SCREWS IN CONTACT WITH PRESSURE TREATED TIMBER SHALL BE STAINLESS STEEL.
- PROVIDE 1/2" THICK APA RATED EXTERIOR WALL SHEATHING FASTENED W/ 10D NAILS @ 4" O.C. AT PANEL EDGES AND 6" O.C. INTERMEDIATE. LAP SHEATHING 1'-0" MINIMUM OVER EXISTING STRUCTURE (WHERE APPLICABLE).
- PROVIDE 5/8" THICK APA RATED ROOF SHEATHING FASTENED W/ 10D NAILS @ 6" O.C. AT PANEL EDGES AND INTERMEDIATE.
- PROVIDE 3/4" THICK APA RATED FLOOR SHEATHING FASTENED W/ CONSTRUCTION ADHESIVE AND 10D RING SHANK NAILS @ 6" O.C. AT PANEL EDGES AND INTERMEDIATE.
- LVL INDICATES LAMINATED VENEER LUMBER BEAMS MANUFACTURED BY BOISE CASCADE OR APPROVED EQUAL. (FB = 3100 PSI & E = 2.0 X 10⁶ PSI)

TIMBER TRUSS NOTES:

- TIMBER TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH STRUCTURAL LOADING PRODUCED BY IBC 2015 AND ASCE 7-(LATEST EDITION).
- MATERIALS: STRESS GRADED LUMBER, METAL PLATE CONNECTORS, MINIMUM GRADE NO. 2 M.S.R. LUMBER, KILN DRIED, 15% MAXIMUM M.C., OR APPROVED ALTERNATE.
- APPLICABLE SPECIFICATIONS:
 - A. NATIONAL DESIGN SPECIFICATION FOR STRESS GRADED LUMBER AND ITS FASTENING (NDS).
 - B. DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (TPI-LATEST EDITION).
- BRACING: THE TRUSS MANUFACTURER SHALL SPECIFY ALL BRACING REQUIRED BOTH FOR TEMPORARY CONSTRUCTION LOADING AND FOR PERMANENT LATERAL SUPPORT OF COMPRESSION MEMBERS AND FOR PERMANENT CHORD/WEB BRACING.
- SUBMITTALS:
 - A. SUBMIT DESIGN CALCULATIONS, SHOP DRAWINGS, AND ERECTION PROCEDURES ALL AFFIXED WITH THE SEAL OF A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MAINE.
 - B. SHOP DRAWINGS SHALL SHOW STRESS GRADE AND SIZE OF MEMBERS, SIZE AND LOCATION OF PLATE CONNECTORS, SIZE AND LOCATION OF BRACING, AND SHALL BE APPROVED BY THE TRUSS DESIGNER.
- ALL FABRICATED TRUSSES SHALL BE INSPECTED AT THE FABRICATION PLANT AND APPROVED TRUSSES SHALL RECEIVE THE TPI MARK OF APPROVAL IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE IN-PLANT INSPECTION LICENSE AGREEMENT.
- CONNECTOR PLATES SHALL BE GALVANIZED.
- PROVIDE SIMPSON H2.5A HURRICANE ANCHORS OR SIMPSON SDWC 15600 WOOD SCREWS (FASTENED PER MANUFACTURERS' WRITTEN INSTRUCTIONS) WHERE TRUSSES BEAR ON BEARING WALLS AND STRUCTURAL BEAMS.

REQUIRED SUBMITTALS AND TESTING:

FOR EACH SUBMITTAL, SUBMIT (2) BLACK LINE PRINTS TO THE ENGINEER/ARCHITECT



- CONCRETE REINFORCING, CONCRETE MIX DESIGN & TESTING (03300):
 - CONCRETE MIX DESIGN FOR EACH CONCRETE CLASS PLACED
 - SUBMIT COMPLETE SHOP DRAWINGS AND SCHEDULES OF ALL REINFORCING STEEL. DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF THAT PORTION OF WORK. ALL ACCESSORIES, SCHEDULES, BEND TYPES ETC. SHALL BE SHOWN ON THE SHOP DRAWINGS.
 - COMPRESSIVE STRENGTH TESTS: ASTM A39; PREPARE ONE SET FOR EACH 100 CUIC YARDS OR FRACTION THEREOF, OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY OR FOR EACH 5,000 SQUARE FEET OF SURFACE AREA PLACED; TEST ONE SPECIMEN AT 7 DAYS; 2 SPECIMENS AT 28 DAYS, AND RESERVE 1 SPECIMEN FOR LATER TESTING IF REQUIRED

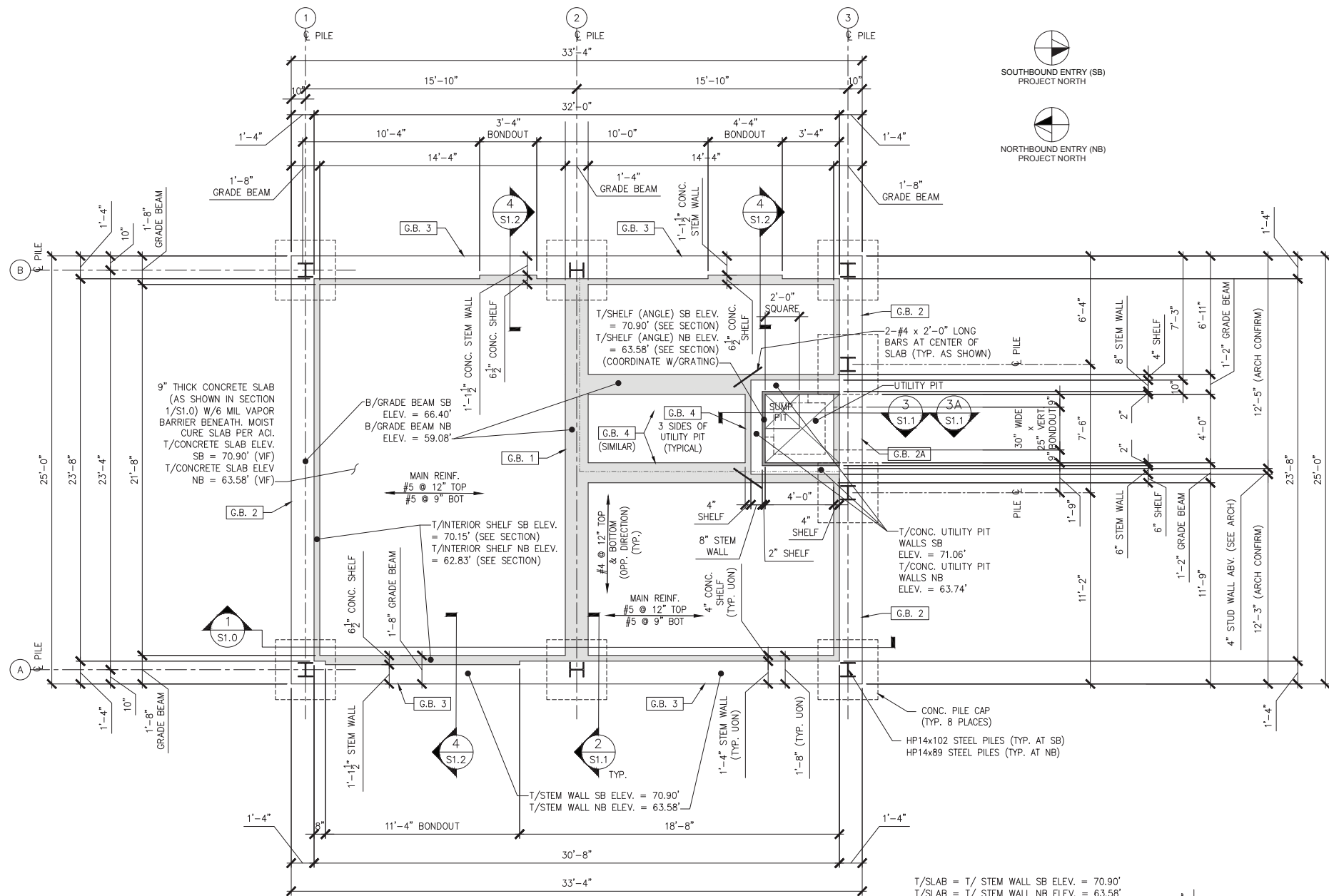
ENGINEERS STAMP: PROVIDE A FINAL SET OF SHOP DRAWINGS WHICH HAVE BEEN SIGNED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF MAINE IF THE SUBMITTAL IS FOR ARCH/EOOR REVIEW ONLY.

STANDARD ABBREVIATIONS:

- (E) - INDICATES EXISTING CONDITIONS OR MEMBERS
- (TYP.) - INDICATES TYPICAL
- (VIF) - INDICATES GENERAL CONTRACTOR SHALL "VERIFY IN FIELD" EXISTING DIMENSIONS, ELEVATIONS OR CONDITIONS
- (U.O.N.) - INDICATES UNLESS OTHERWISE NOTED
- T/ - INDICATES "TOP OF"
- B/ - INDICATES "BOTTOM OF"
- CMU - INDICATES CONCRETE MASONRY UNIT
- M.O. - INDICATES MASONRY OPENING
- R.O. - INDICATES ROUGH OPENING
- TBD - TO BE DETERMINED
- CJ - INDICATES CONTROL JOINT
- S.S. - INDICATES STAINLESS STEEL
- P.A.F. - POWDER ACTUATED FASTENER
- G.C. - INDICATES GENERAL CONTRACTOR
- EOOR - INDICATES ENGINEER OF RECORD
- HDG - INDICATES HOT DIP GALVANIZED
- F.R. - INDICATES FIRE RETARDANT

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AS NOTED		CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.					
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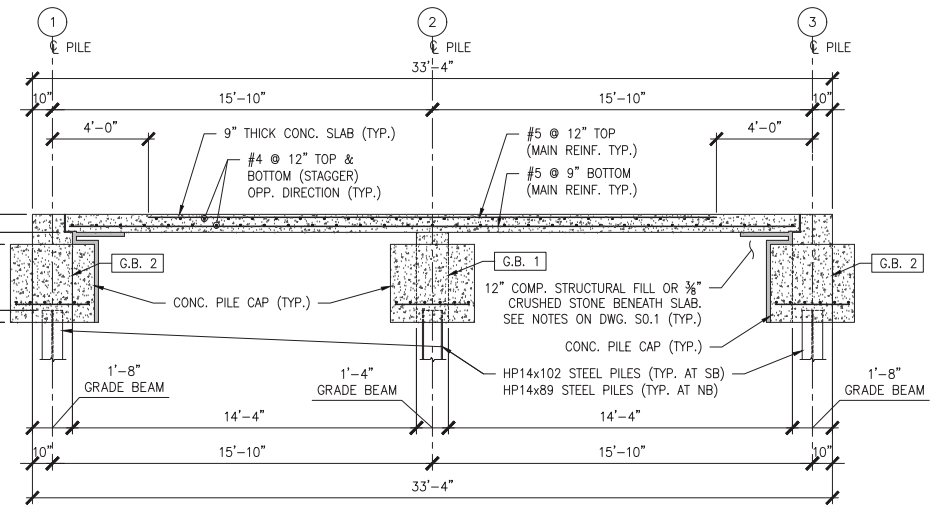


PILE/FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

T/SLAB = T/ STEM WALL SB ELEV. = 70.90'
T/SLAB = T/ STEM WALL NB ELEV. = 63.58'

T/INT. CONC. SHELF =
T/GRADE BEAM SB ELEV. = 70.15'
T/INT. CONC. SHELF =
T/GRADE BEAM NB ELEV. = 62.83'

B/GRADE BEAM ELEV. =
B/PILE CAP SB ELEV. = 66.40'
B/GRADE BEAM ELEV. =
B/PILE CAP NB ELEV. = 59.08'



SECTION 1
1/4" = 1'-0"

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

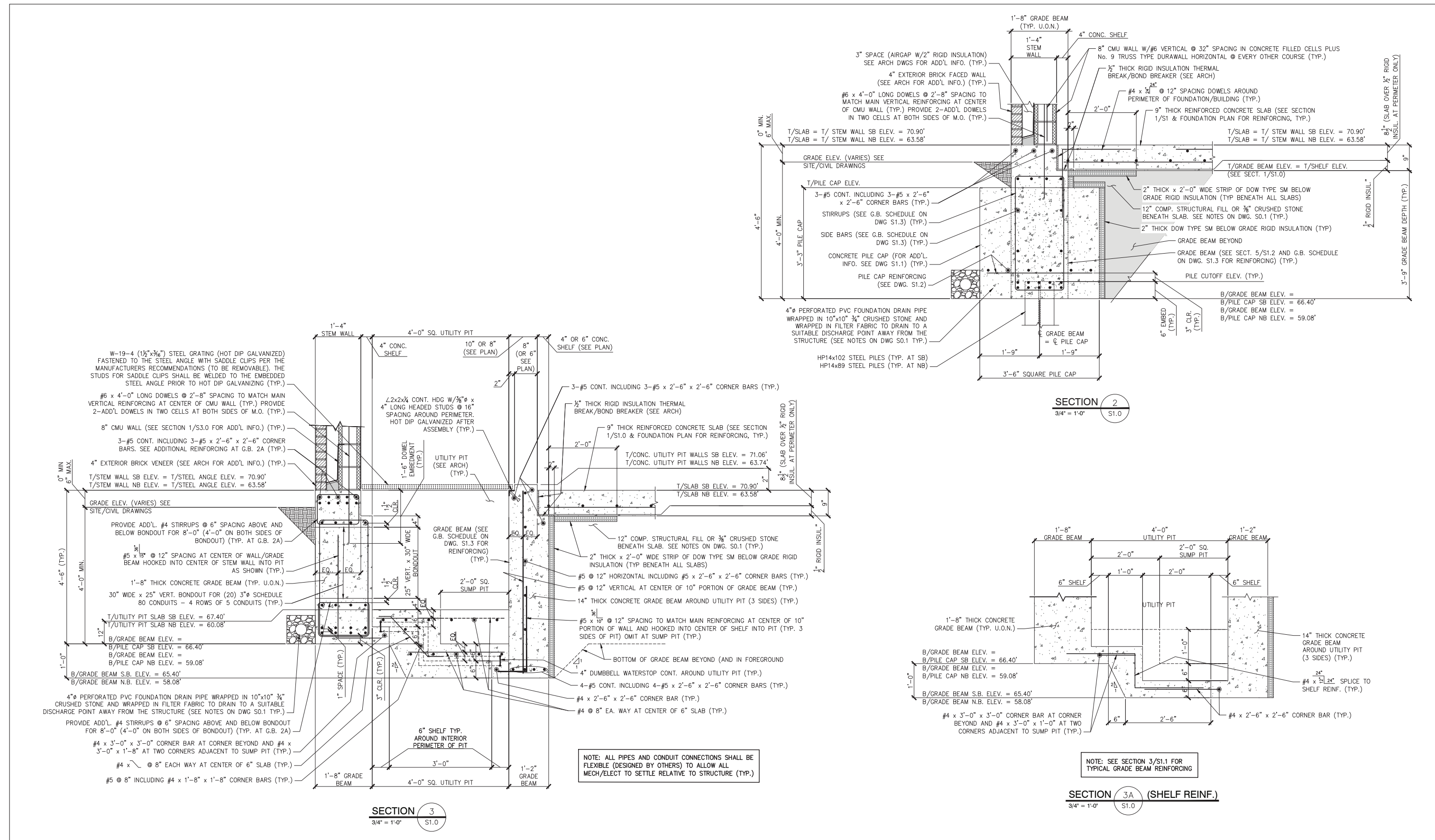
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING PILE FOUNDATION PLAN & SECTION

SHEET NUMBER: S1.0

CONTRACT: 2021.07

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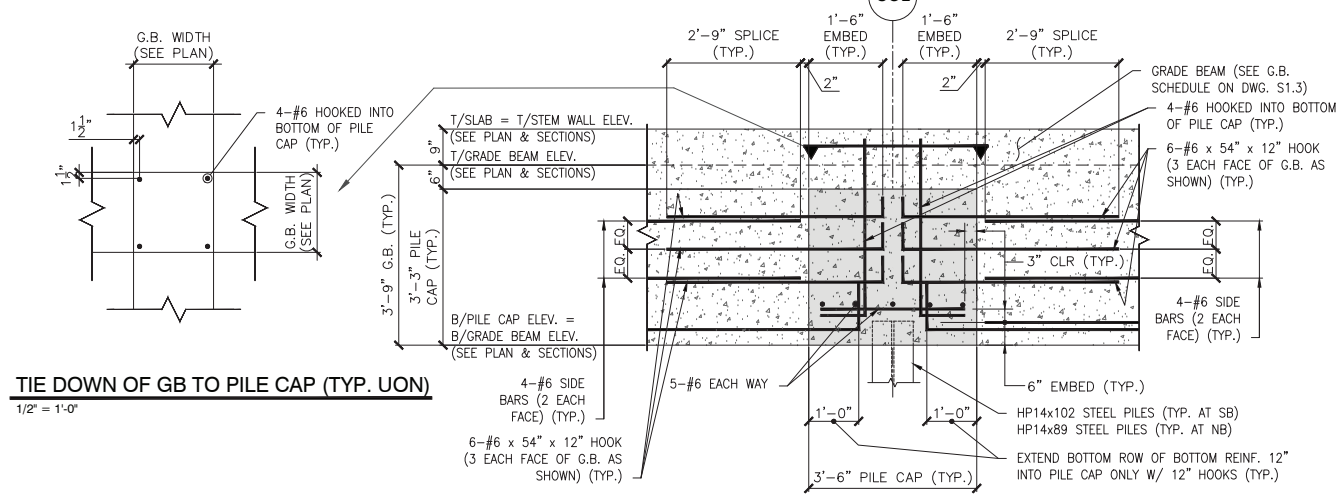
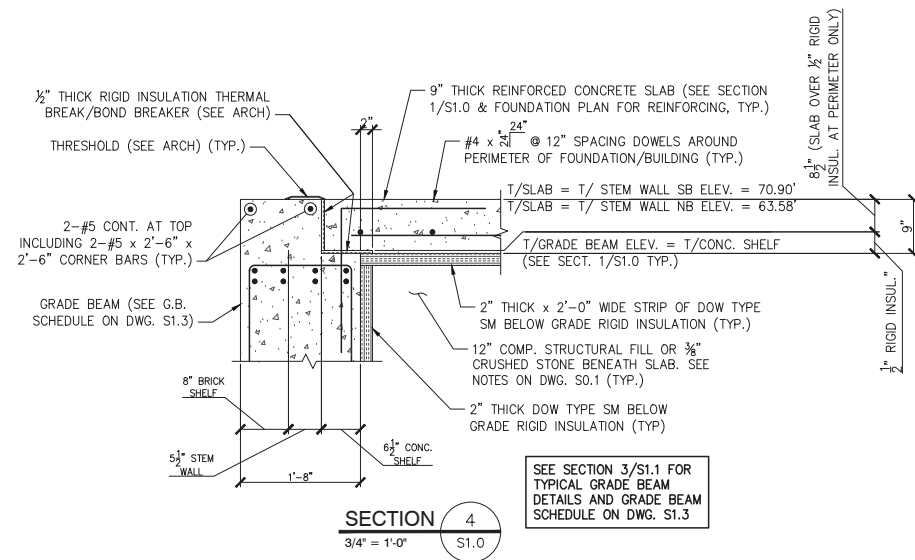
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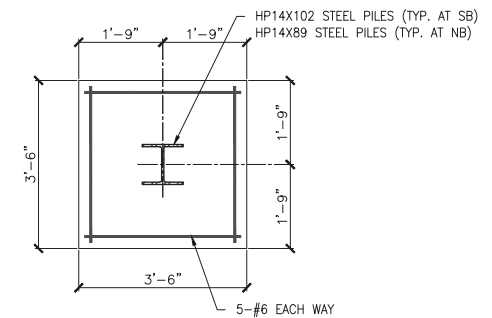
EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING PILE/FOUNDATION SECTIONS & DETAILS

SHEET NUMBER: S1.1
CONTRACT: 2021.07
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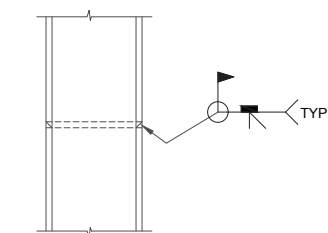


TIE DOWN OF GB TO PILE CAP (TYP. UON)
1/2" = 1'-0"

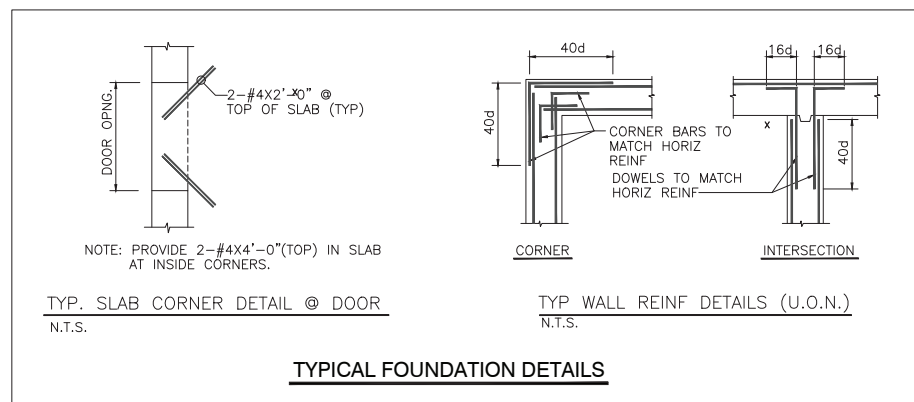
5 TYP. GRADE BEAM CONNECTION TO PILE CAP DETAIL
S1.2 1/2" = 1'-0"



TYP. PILE CAP REINFORCING
1/2" = 1'-0"



TYP. PILE SPLICE DETAIL
1/2" = 1'-0"



TYPICAL FOUNDATION DETAILS

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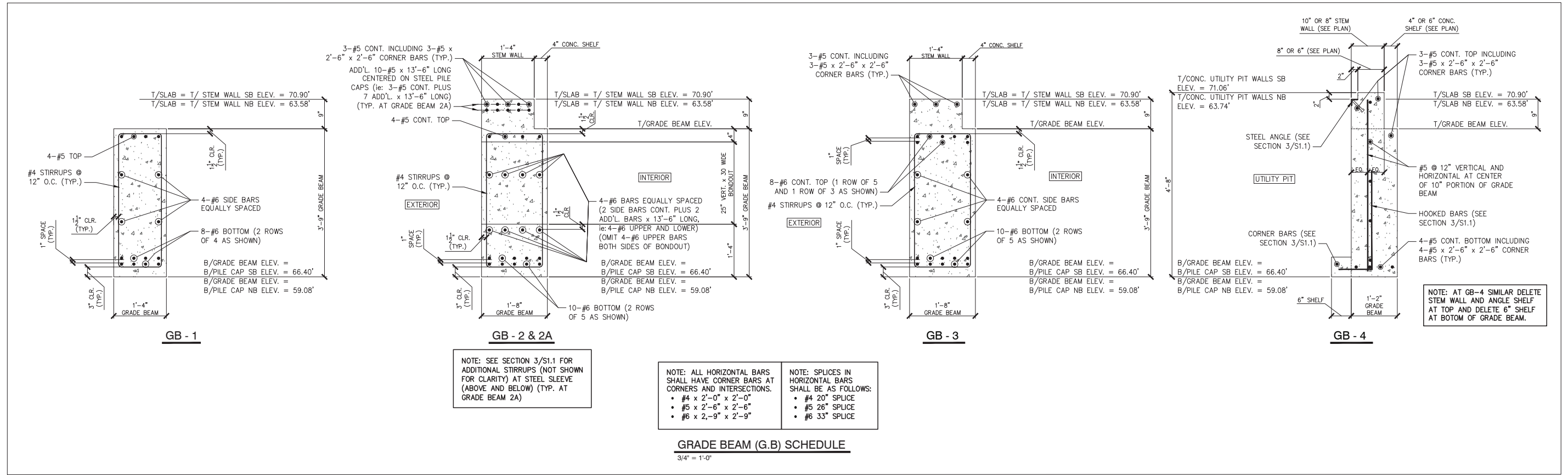
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EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING PILE/FOUNDATION SECTIONS & DETAILS

SHEET NUMBER: S1.2

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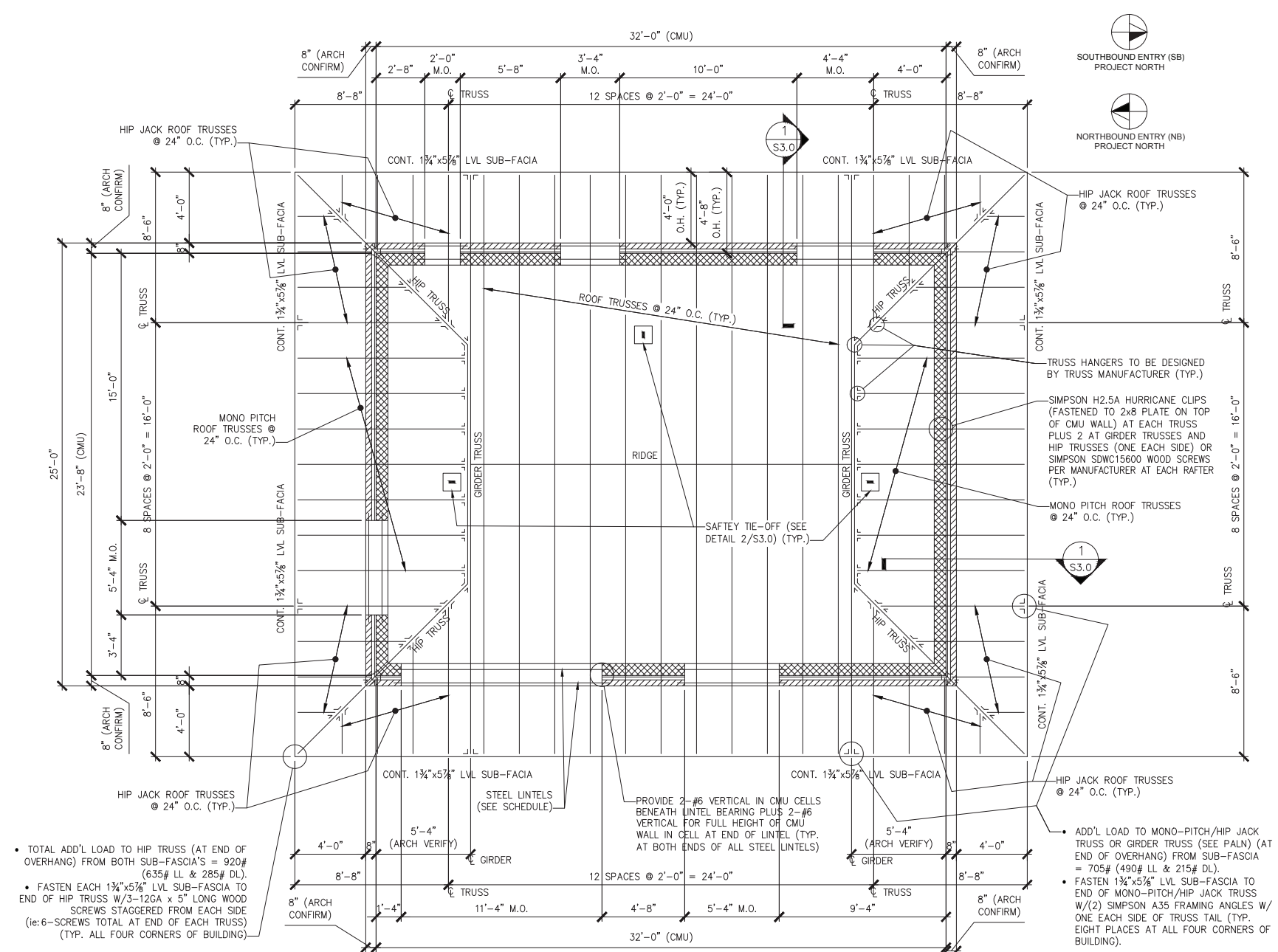
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MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING GRADE BEAM SCHEDULE

SHEET NUMBER: S1.3
CONTRACT: 2021.07
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ROOF TRUSS LOADING	
TCLL:	= 45 P.S.F.
TCDL:	= 10 P.S.F.
BCLL:	= 0 P.S.F.
BCDL:	= 10 P.S.F.
NOTES:	
1.	MAXIMUM PERMISSIBLE LIVE LOAD DEFLECTION SHALL BE L/360.
2.	TRUSS DESIGNER SHALL DESIGN TRUSSES FOR APPLICABLE LIVE, DEAD AND LATERAL LOADS IN ACCORDANCE WITH THE 2015 IBC INTERNATIONAL BUILDING CODE INCLUDING WIND, SNOW, UNBALANCED SNOW AND DEAD LOADS (TYP).
3.	TEMPORARY AND PERMANENT TOP CHORD, BOTTOM CHORD AND WEB BRACING SHALL BE INSTALLED IN ACCORDANCE WITH TPI AND THE HIB-LATEST EDITION REPORT.

ROOF FRAMING PLAN
1/4" = 1'-0"

Scale: SCALE AS NOTED

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CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

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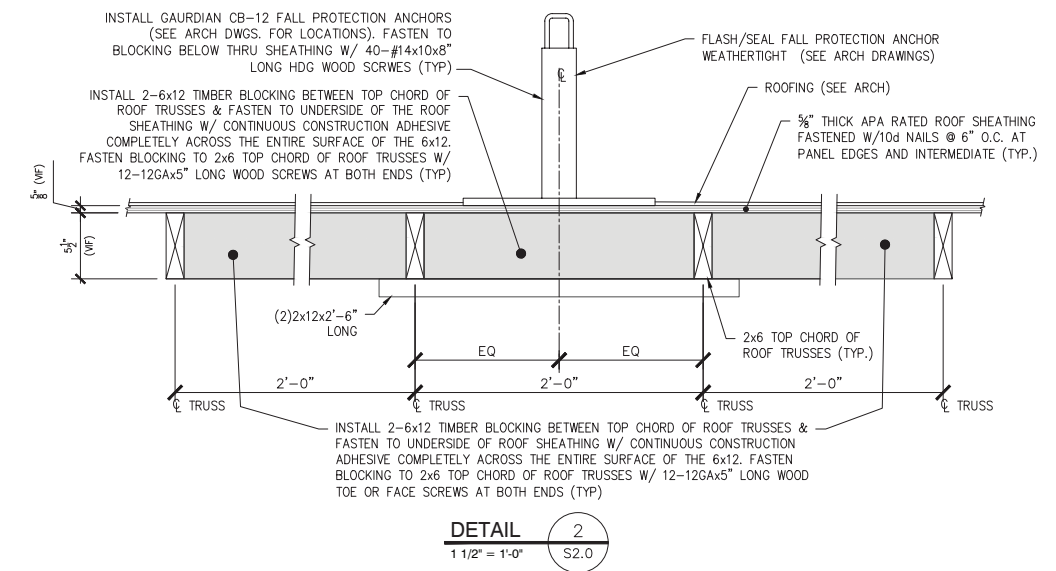
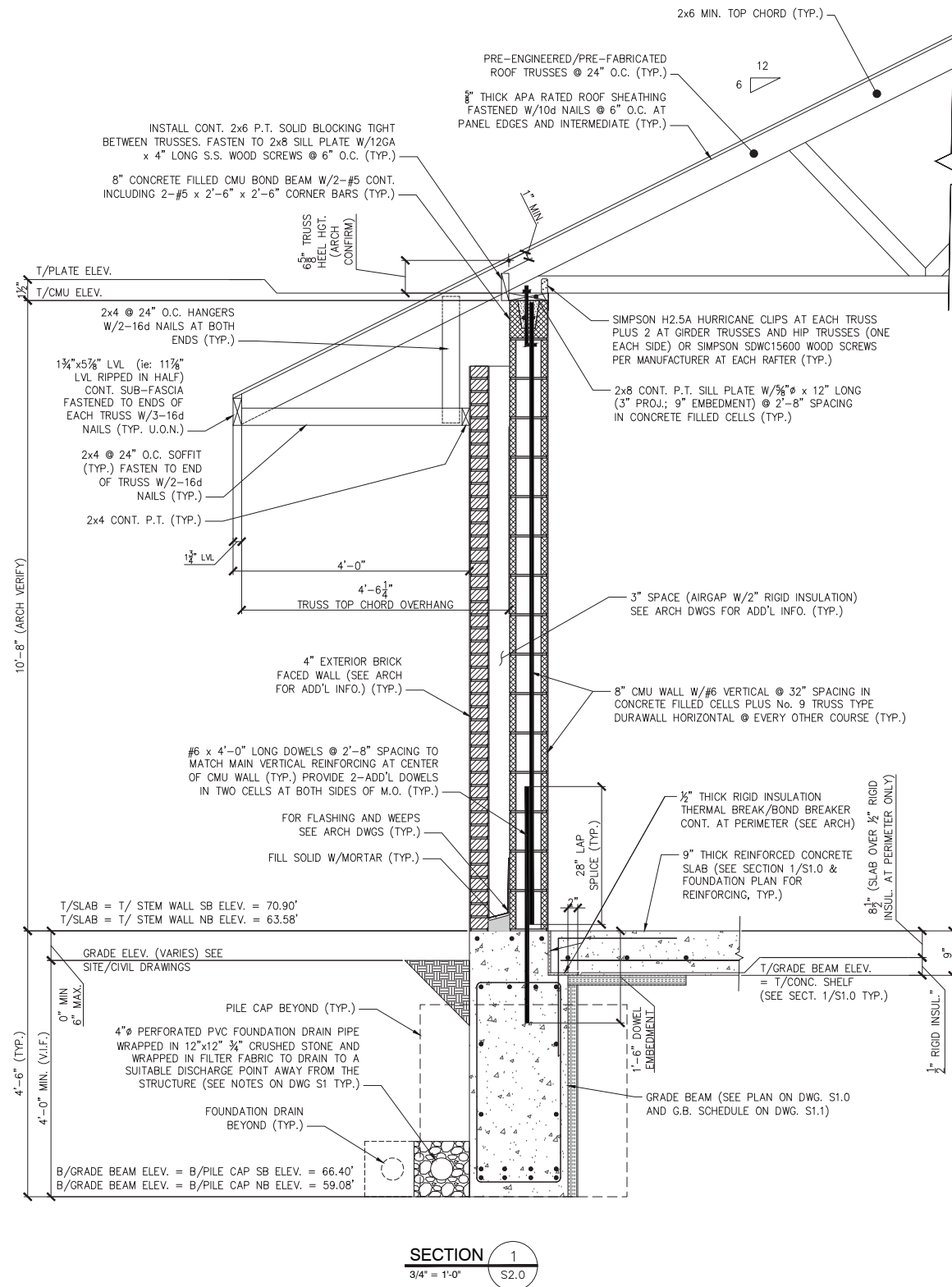
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING ROOF FRAMING PLAN

SHEET NUMBER: S2.0
421 OF 431

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No.	Revision	By	Date

Designed by: JOSEPH H. LEASURE, P.E.

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date	By	Date
Designed	JHL	12/02/20	Checked	JHL 12/02/20
Drawn	PJM	12/02/20	In Charge of	

L & L STRUCTURAL ENGINEERING SERVICES, INC.
SIX Q STREET
SOUTH PORTLAND, MAINE 04106
PHONE: (207) 767-4830
FAX: (207) 799-5432
EMAIL: JLEASURE@LL-ENG.COM

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

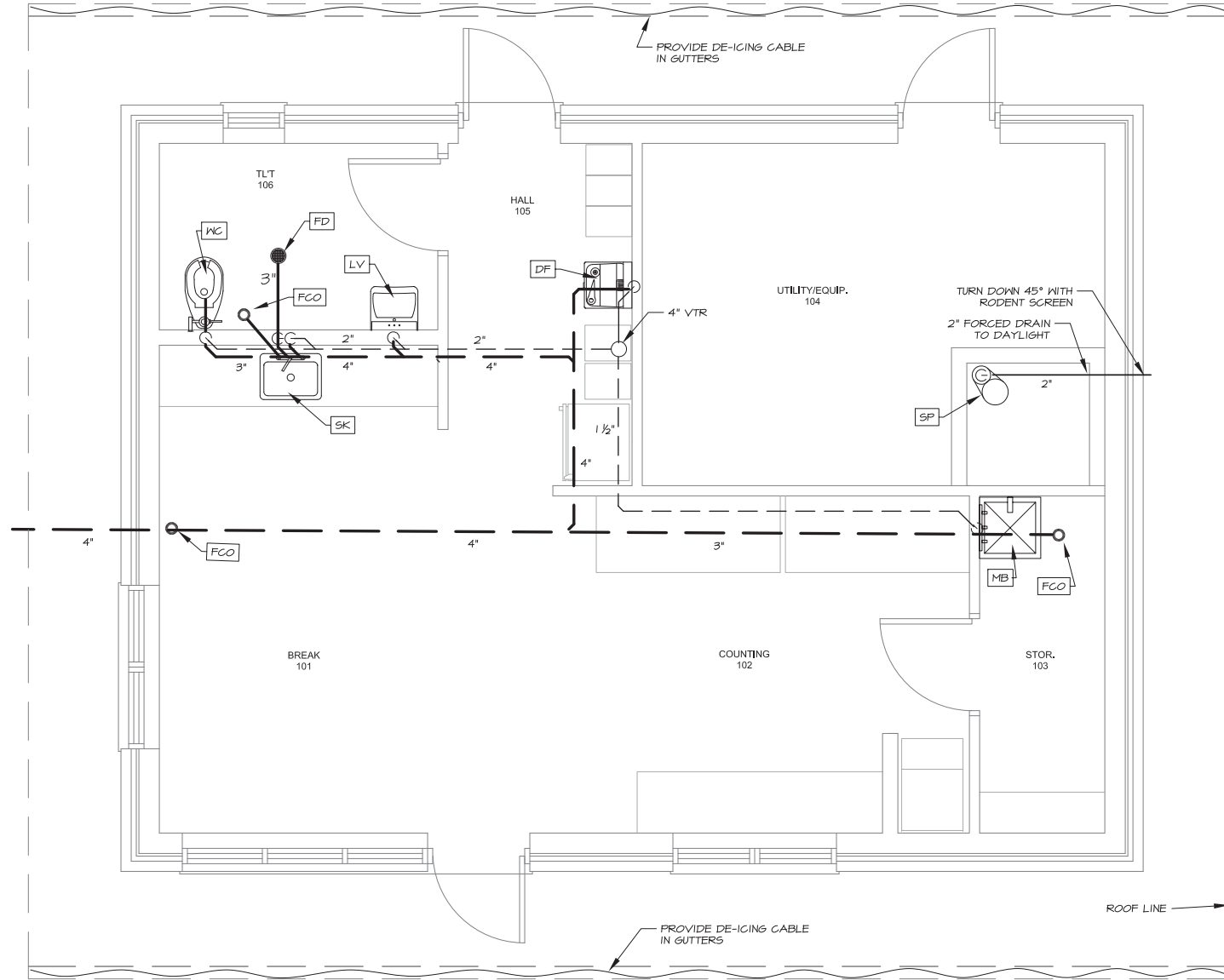
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45 INTERCHANGE RECONFIGURATION TOLL ADMINISTRATION BUILDING SECTIONS & DETAILS

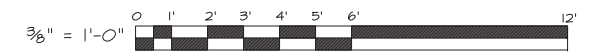
SHEET NUMBER: S2.1

CONTRACT: 2021.07

422 OF 431




1 NORTHBOUND BUILDING
PLUMBING DRAIN & VENT PLAN
 SCALE: 3/8" = 1'-0"




November 20, 2020 - 11:28 am
 X:\Projects\2007 Me Turnpike Exit 45 Drawings\2007 P1-P5.dwg

Scale:		3/8" = 1'	
No.	Revision	By	Date

Designed by:					
KURT MAGNUSSON, P.E.					
CONSULTANT PROJECT MANAGER: KFM					
	By	Date	Checked	By	Date
	KFM	11/07/20		REM	11/07/20
	Drawn	KFM	11/07/20	In Charge of	



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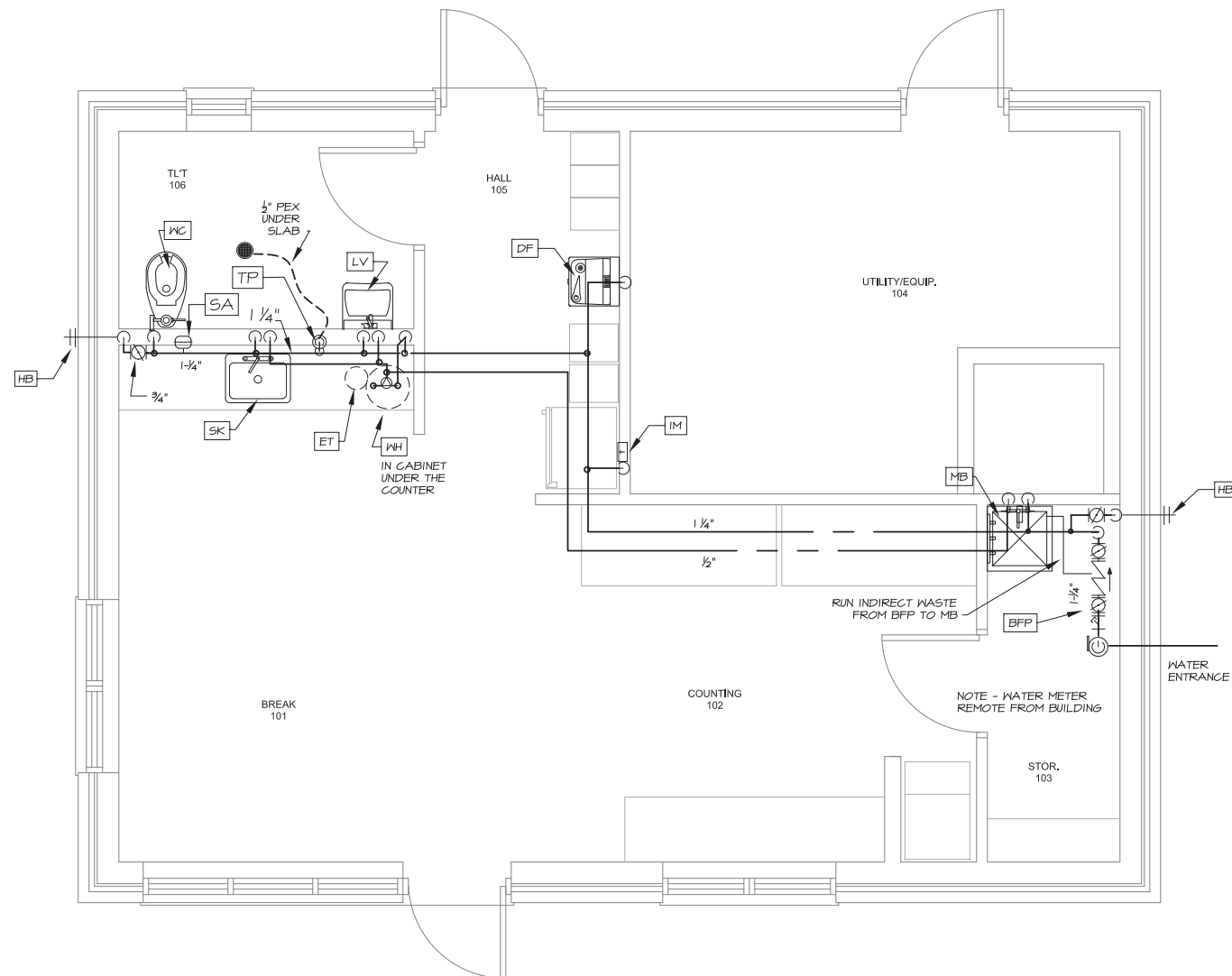


**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 TOLL ADMINISTRATION BUILDING
 PLUMBING DRAIN & VENT PLAN
 NORTHBOUND BUILDING**

SHEET NUMBER: P01
 CONTRACT: 2021.07
 423 OF 431



① **NORTHBOUND BUILDING**
PLUMBING WATER PLAN
 SCALE: 3/8" = 1'-0"




November 20, 2020 - 11:29 am
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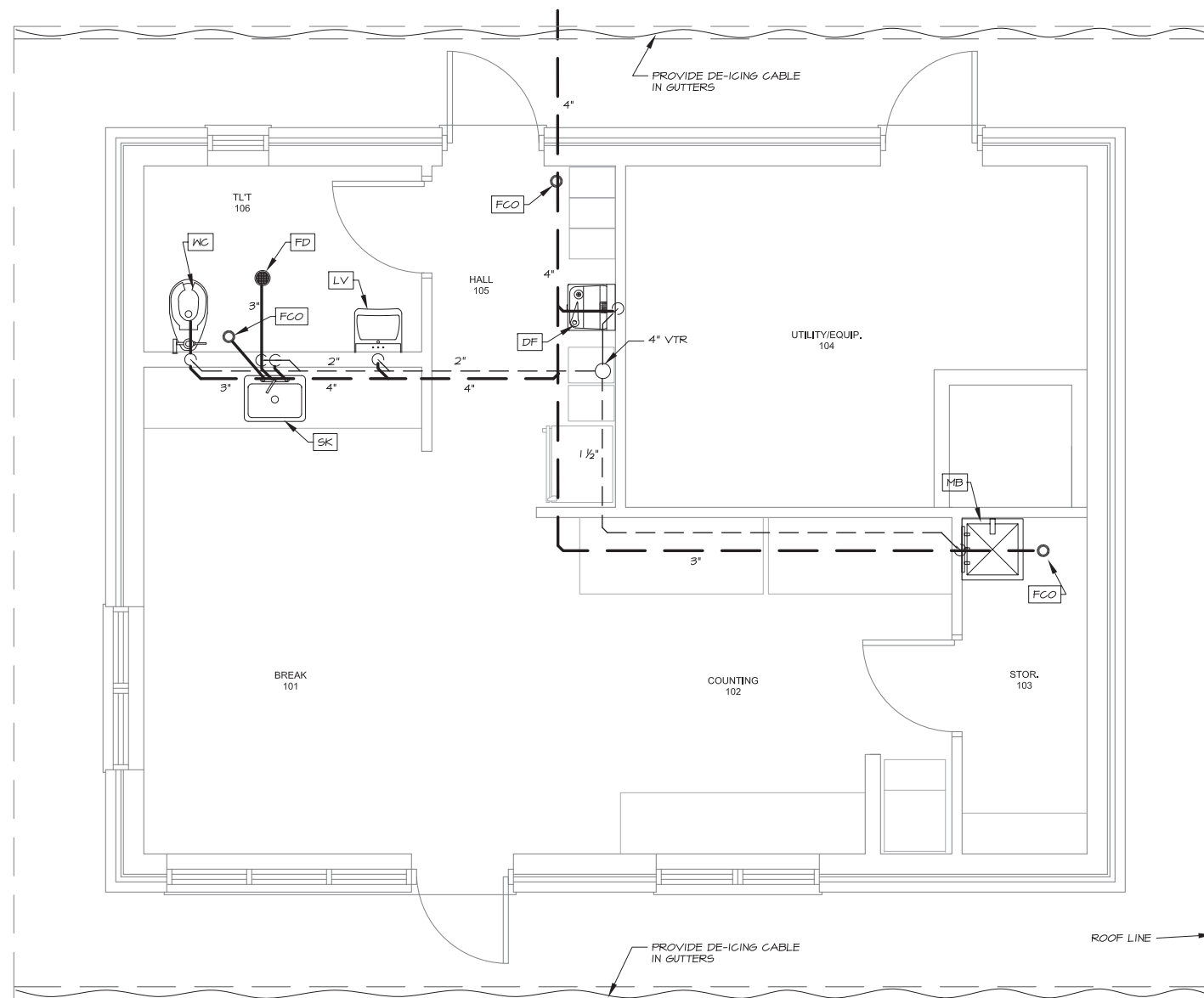
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No.	Revision	By	Date

Designed by: KURT MAGNUSSON, P.E.					
CONSULTANT PROJECT MANAGER: KFM					
	By	Date	Checked	By	Date
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	Drawn	KFM	In Charge of		


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**EXIT 45
 INTERCHANGE RECONFIGURATION
 TOLL ADMINISTRATION BUILDING
 PLUMBING WATER PLAN
 NORTHBOUND BUILDING**
 SHEET NUMBER: P02
 CONTRACT: 2021.07
 424 OF 431



1 SOUTHBOUND BUILDING
 PLUMBING DRAIN & VENT PLAN
 SCALE: 3/8" = 1'-0"




November 20, 2020 - 11:30 am
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Scale: 3/8"=1'			
No.	Revision	By	Date

Designed by: KURT MAGNUSSON, P.E.					
CONSULTANT PROJECT MANAGER: KFM					
	By	Date		By	Date
	Designed	KFM	11/07/20	Checked	REM
	Drawn	KFM	11/07/20	In Charge of	



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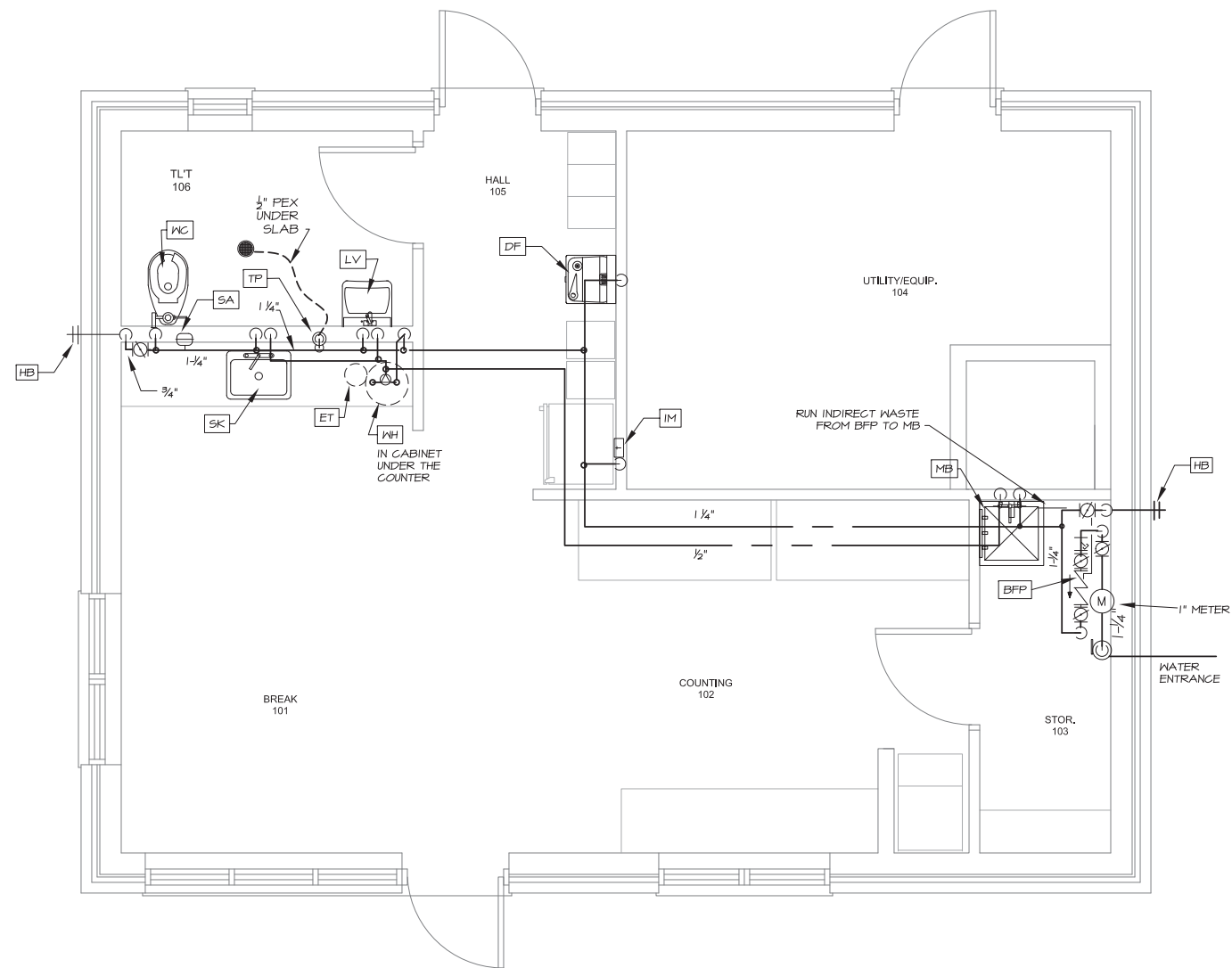


**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 TOLL ADMINISTRATION BUILDING
 PLUMBING DRAIN & VENT PLAN
 SOUTHBOUND BUILDING**

SHEET NUMBER: P03
 CONTRACT: 2021.07
 425 OF 431



1 SOUTHBOUND BUILDING
PLUMBING WATER PLAN
 SCALE: 3/8" = 1'-0"



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Scale: 3/8"=1'				
No.	Revision	By	Date	

Designed by: KURT MAGNUSSON, P.E.				
CONSULTANT PROJECT MANAGER: KFM				
	By	Date	By	Date
	Designed	KFM 11/07/20	Checked	REM 11/07/20
	Drawn	KFM 11/07/20	In Charge of	

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 MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

**EXIT 45
 INTERCHANGE RECONFIGURATION
 TOLL ADMINISTRATION BUILDING
 PLUMBING WATER PLAN
 SOUTHBOUND BUILDING**
 SHEET NUMBER: P04
 CONTRACT: 2021.07
 426 OF 431

LEGEND

ADA	AMERICANS WITH DISABILITIES ACT	HW	HOT WATER	— — — — —	SANITARY/ WASTE PIPING BELOW SLAB / GRADE
AFF	ABOVE FINISHED FLOOR	IDW	INDIRECT WASTE	— — — — —	SANITARY / WASTE PIPING ABOVE SLAB
BFP	BACKFLOW PREVENTER	LV	LAVATORY	— — — — —	VENT PIPING ABOVE SLAB
CNTR	COUNTER	MTD	MOUNTED	— — — — —	VENT PIPING BELOW SLAB
CO	CLEANOUT	PC	PLUMBING CONTRACTOR	— — — — —	COLD WATER PIPING
CONT	CONTINUATION	PG	PRESSURE GAUGE	— — — — —	120 HOT WATER PIPING
COORD	COORDINATION	S	SANITARY WASTE	— — — — —	
CW	COLD WATER	SA	SHOCK ABSORBER		BALL VALVE
C&HW	COLD & HOT WATER	SS	STAINLESS STEEL		VERTICAL BALL VALVE
DAW	DROP AT WALL	T	THERMOMETER		CHECK VALVE
DIV	DIVISION	TP	TRAP PRIMER		BACKFLOW PREVENTER
DIW	DROP IN WALL	TYP	TYPICAL		VACUUM RELIEF VALVE
DN	DOWN	V	VENT		VACUUM BREAKER
DNAW	DOWN AT WALL	VC	VITREOUS CHINA		THERMOMETER
DNW	DOWN IN WALL	VRV	VACUUM RELIEF VALVE		PRESSURE GAUGE
DO	DRAWOFF	VS	VENT STACK		TRAP PRIMER
ET	EXPANSION TANK	VTR	VENT THRU ROOF		SHOCK ABSORBER
FCO	FLOOR CLEANOUT	W	WASTE		MIXING VALVE
FD	FLOOR DRAIN	WV	WITH		FLOOR CLEANOUT
GPF	GALLONS PER FLUSH	WC	WATER CLOSET		FLOOR DRAIN
HB	HOSE BIB	WCO	WALL CLEANOUT		PLUMBING FIXTURE/ EQUIPMENT NUMBER TAG
		HW	WATER HEATER		

GENERAL NOTES

- All work shall be in accordance with the State Plumbing Code, local codes and ordinances, National Fire Code (NFPA), or these plans or specifications, whichever is more strict.
- All drawings are schematic only, and are intended to indicate the intent, extent, and general arrangement of work. They are not meant to show every fitting, change of direction or every situation. Verify locations in the field. Work indicated shall be furnished complete to perform the function intended.
- Carefully coordinate the space requirements and location of piping with the other trade contractors.
- For pipe sizes not shown on floor plans, refer to: appropriate schedules, details, specifications, equipment connection sizes and minimum Code requirements. For otherwise indeterminate pipe segments, the size shall be the same as the largest adjacent segment. Where pipe sizes are erroneously shown to decrease then increase, the smaller segment shall be increased to match the larger segment. Pipe sizes are nominal (not O.D.) unless specifically noted otherwise.
- All piping in finished areas shall run concealed above ceilings, in walls, in soffits and in chases unless noted otherwise.
- No structural members shall be cut without approval of the Architect.
- All plumbing shall be supported from the building structure. All piping drops to fixtures shall be anchored solid to walls with a steel support bracket with adjustable clip.
- Openings between pipes and sleeves shall be caulked and sealed smoke and water tight. All pipe penetrations through a fire rated wall or floor shall have a UL rated fire stop system rated to match the rating of the wall, as per the NFPA.
- All wall fixtures shall be carrier mounted unless otherwise specified.
- All domestic water and storm water piping, above slab, shall be insulated unless otherwise specified.
- Run all piping on warm side of building insulation. No water, or drain lines shall be run in exterior walls.
- Warranty period will not start until Toll Plaza is operational.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	COLD WATER	HOT WATER	SAN/WASTE	VENT	SPECIFICATION AND REMARKS
DF	DRINKING FOUNTAIN WITH BOTTLE FILLER - ADA	1/2"	-	1-1/2"	1-1/4"	REFRIGERATED WATER COOLER WITH BOTTLE FILLER AND IN-WALL CARRIER 115 V - 5.5 FLA.
LV	LAVATORY, WALL MTD - ADA	1/2"	1/2"	1-1/4" x 1-1/2"	1-1/2"	ELECTRONIC TOUCH FREE FAUCET. ADA INSULATED P-TRAP & SUPPLIES W/ WHEEL HANDLE STOPS & ESCUTCHEONS. FLOOR BOLTED WALL CARRIER FOR CONCEALED ARMS.
MB	MOP BASIN	1/2"	1/2"	3"	1-1/2"	MOLDED STONE MOP SERVICE BASIN, 24"x24"x10", SERVICE FAUCET WITH VACUUM BREAKER SPOUT AND INTEGRAL STOPS, STAINLESS STEEL WALL GUARDS, MOP BRACKET, VINYL BUMPER GUARD.
SK	SINK, KITCHEN - ADA	1/2"	1/2"	2"	1-1/2"	22X25X6-1/2" DEEP SINK, 18 GA 304 S.S. REAR DRAIN, KITCHEN FAUCET WITH SPRAY, BASKET DRAIN, CHROME SUPPLIES WITH WHEEL HANDLE STOPS. ADA INSULATION KIT.
WC	WATER CLOSET, LEFT FLUSH VALVE - ADA	1"	-	3"	2"	ELONGATED TOILET 16-1/2" HIGH BOWL, VITREOUS CHINA, - ELECTRONIC TOUCH FREE FLUSH VALVE

ELECTRIC WATER HEATER SCHEDULE

TAG	ITEM	GAL	WATTS	VOLTS	PH	SPECIFICATION & REMARKS
WH	DOMESTIC HOT WATER	10	4500	240	1	COMPACT STYLE

WATER SPECIALTY SCHEDULE

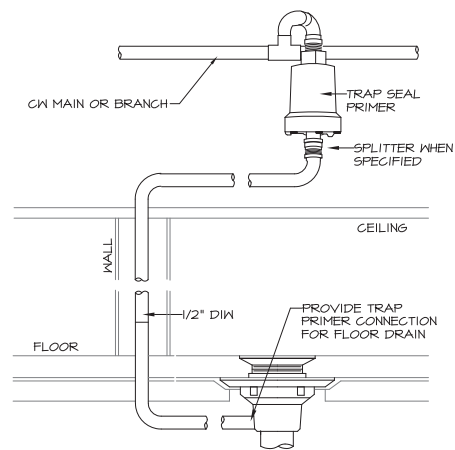
TAG	ITEM	CW	HW	OUTLET	SPECIFICATION & REMARKS
BFP	WATER ENTRANCE BACK FLOW PREVENTER	1"	-	3/4"	RPZ BFP W/ STRAINER, UNIONS
ET	EXPANSION TANK	3/4"	-	-	0.85 GAL ACCEPTANCE
HB	HOSE BIB W/ VB.	3/4"	-	3/4" GHT	SELF DRAINING WALL FAUCET W/ VB
MV	MASTER MIXING VALVE	1/2"	1/2"	1/2" 120"	THERMOSTATIC W/ CHECK STOPS.
SA	SHOCK ABSORBER		1/2"	-	BELLOWS TYPE WATER HAMMER ARRESTOR
TP	TRAP PRIMER		1/2"	1/2"	

DRAIN SPEC. SCHEDULE

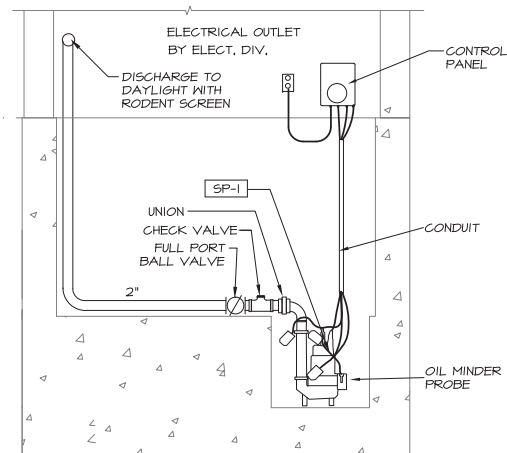
TAG	ITEM	WASTE	VENT	REMARKS
FCO	ROUND - FINISHED AREAS FLOOR CLEANOUT	SIZE OF PIPE	-	ADJUSTABLE
FD	ROUND MEDIUM DUTY FLOOR DRAIN	3"	1 1/2"	WITH TRAP PRIMER

PUMP SCHEDULE

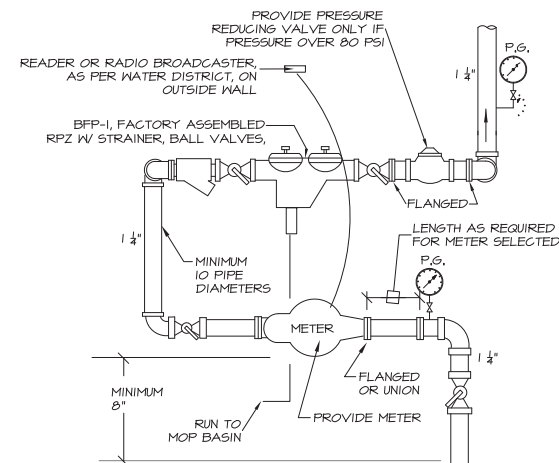
TAG	ITEM	SERVICE	GPM	HEAD	HP	VOLTS	REMARKS
SP-1	SUMP PUMP	UTILITY PIP	50	18'	1/2	115	W/ OIL MINDER



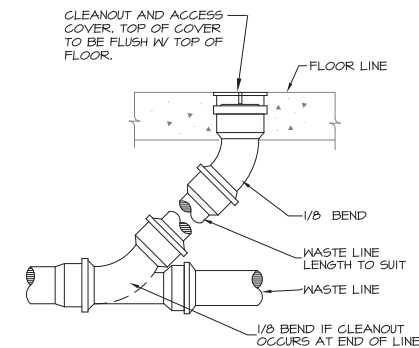
1 TYP
TP-1 TRAP SEAL PRIMER DETAIL
SCALE: NONE



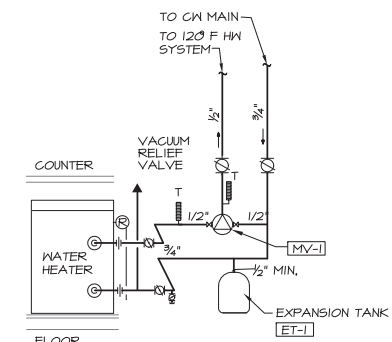
2 TYP
UTILITY PIT SUMP PUMP DETAIL
SCALE: NONE



3 TYP
WATER ENTRANCE
SCALE: NONE



4 TYP
FLOOR CLEAN OUT DETAIL
SCALE: NONE



5 TYP
HOT WATER TANK DIAGRAM
SCALE: NONE

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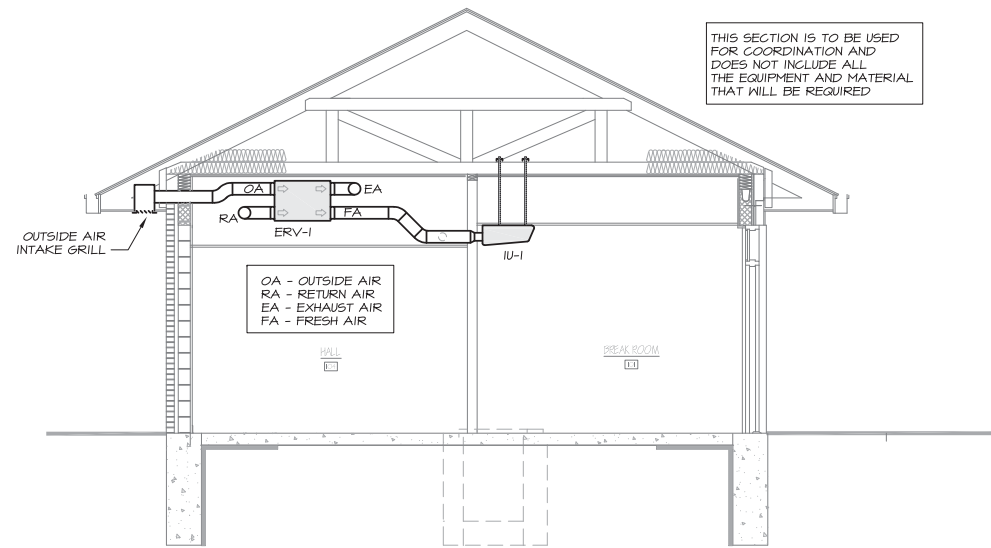
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Designed by:		KURT MAGNUSSON, P.E.	
No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: KFM			
By	Date	By	Date
KFM	11/07/20	REM	11/07/20
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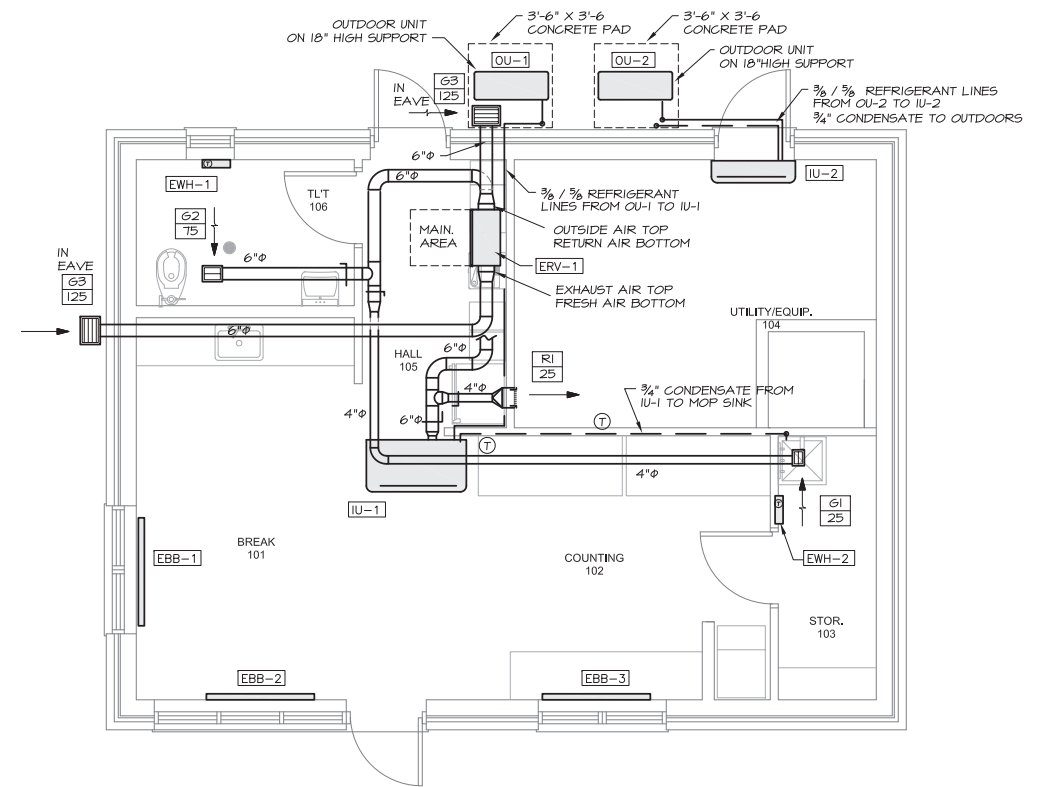
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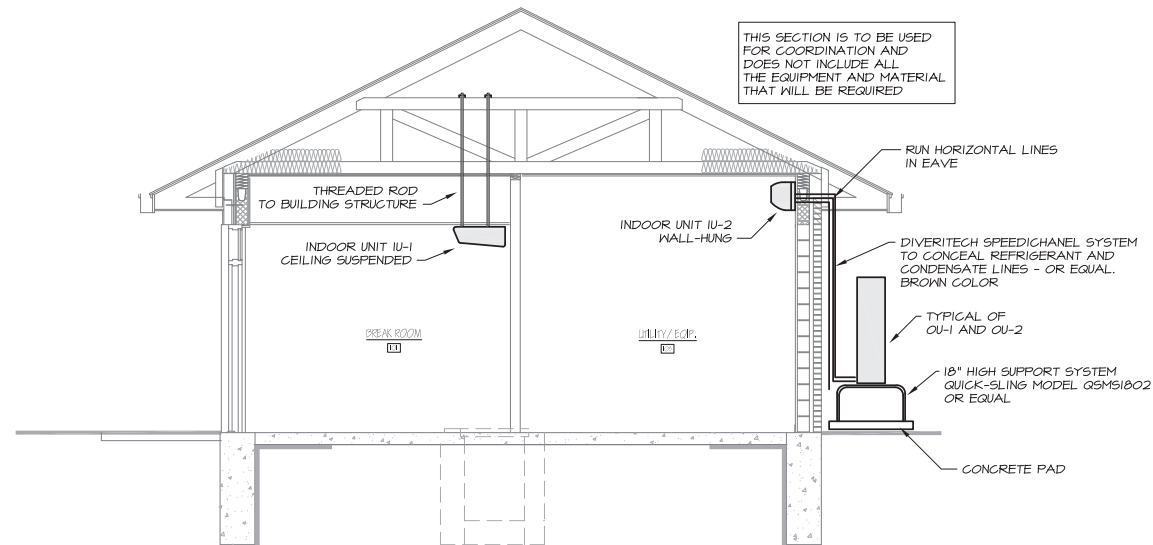
EXIT 45
INTERCHANGE RECONFIGURATION
TOLL ADMINISTRATION BUILDING
PLUMBING
LEGENDS, NOTE & SCHEDULES
SHEET NUMBER: P05
CONTRACT: 2021.07
427 OF 431



1 SECTION THROUGH ERV-1
SCALE: 1/4" = 1'-0"



3 MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 SECTION THROUGH OU-1,2 & IU-1,2
SCALE: 1/4" = 1'-0"

SHEETMETAL LEGEND	
	EXHAUST INLET, SURFACE MOUNT
	DOUBLE DEFLECTION REGISTER
	MANUAL DAMPER - LOCKING QUADRANT
	THERMOSTAT



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Scale:		1/4" = 1'	
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CONSULTANT PROJECT MANAGER: KFM			
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 MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 TOLL ADMINISTRATION BUILDING
 MECHANICAL
 PLAN VIEW & SECTIONS
 SHEET NUMBER: M01
 CONTRACT: 2021.07
 428 OF 431

GENERAL NOTES

- All systems are to be to meet the following Codes and Standards.
 - ASHRAE 90.1 2007 - Energy Standard for Commercial Buildings.
 - ASHRAE 60.1 2007 - Standard for Indoor Air Quality in Commercial Buildings.
 - 2009 IECC - International Energy Conservation Code.
 - NFPA - National Fire Protection Association Standards.
- Do not cut any structural members with pre-approval of structural engineer.

SHEETMETAL NOTES

- All ductwork to be fabricated and installed per SMACNA Low Pressure Ductwork Standards.
- Ductwork is shown diagrammatically and does not indicate all the offsets, rises and drops that will be required.
- All outside air and fresh air ductwork ductwork above ceiling to be insulated with 1-1/2" fiberglass duct wrap with foil faced vapor barrier.

PIPING NOTES

- Piping is shown diagrammatically and does not indicate all the offsets, rises and drops that will be required.
- All refrigeration piping to be Type "K" copper or ACR Tube.
- Insulate all refrigeration piping with 1" Closed Cell Insulation.
- Paint all outdoor refrigerant piping with a protective paint approved by the equipment manufacturer.

CONTROL NOTES

- It will be the Mechanical Contractor's responsibility to provide and install all controls and all control wiring.
- All control wiring that is run in concealed spaces to be plenum rated.
- All control wiring that is run exposed shall be in electrical conduit provided and installed by the mechanical contractor (or his ATC subcontractor).
- Thermostats for the heat pump systems IU-1,2 to be hard-wired and provided by the heat pump manufacturer.
 - First stage heat to be the heat pump.
 - Second stage heat for OU/IU-1 to be the electric baseboard heat EBB-1,2,3. Provide transformer and wiring to enable the relays in EBB-1,2,3 on a call from the heat relay in IU-1.
- Thermostats for the electric wall heaters EWH-1,2 to be built-in.
- ERV-1 to run 24/7

VARIABLE REFRIGERANT FLOW OUTDOOR UNIT SCHEDULE

TAG	DESIGN MANUFACTURER AND MODEL	NOMINAL TONS	COOLING BTUH *	HEATING BTUH **	ELECTRIC			REFRIGERANT	WEIGHT	REMARKS
					POWER	MCA	MOP			
OU-1	MITSUBISHI FUZ-HA30NHA4-B5	2.5	30,000	32,000	208/60/1	28	30	410A	265 LBS	MOUNT ON 18" HIGH SUPPORT BASE, SEACOAST PROTECTION AND WIND BAFFLE
OU-2	MITSUBISHI FUZ-HA30NHA4-B5	2.5	30,000	32,000	208/60/1	28	30	410A	265 LBS	MOUNT ON 18" HIGH SUPPORT BASE, SEACOAST PROTECTION AND WIND BAFFLE

* COOLING OPERATING RANGE OF 0 DEG. F. TO 115 DEG. F. ** HEATING OPERATING RANGE OF -13 DEG. F. TO 70 DEG. F.

VARIABLE REFRIGERANT FLOW INDOOR UNIT SCHEDULE

TAG	DESIGN MANUFACTURER AND MODEL	NOMINAL TONS	CFM	ELECTRIC		REFRIGERANT	WEIGHT	REMARKS
				POWER	AMPS			
IU-1	MITSUBISHI PCA-A30KA4	2.5	670	208/60/1	0.54	410A	71 LBS	CEILING SUSPENDED WITH EXTERNAL HEAT RELAY KIT AND WIRED THERMOSTAT
IU-2	MITSUBISHI PCA-A30KA4	2.5	700	208/60/1	0.36	410A	46 LBS	WALL HUNG WITH WIRED THERMOSTAT

HEAT RECOVERY UNIT SCHEDULE

TAG	DESIGN MANUFACTURER AND MODEL	RECOVERY TYPE	EFFECTIVENESS			WINTER O.A.		EXHAUST AND SUPPLY		ELECTRIC		WEIGHT	REMARKS
			SENSIBLE	WINTER	SUMMER	TEMP.	GRAINS	EXHAUST	SUPPLY	POWER	FLA		
ERV-1	RENEWAIRE EV130	CORE	72%	66%	50%	-5	2.5	125	125	120/60/1	1.3	44 LBS	WITH BACKDRAFT DAMPERS AND 3' POWER CORD

ELECTRIC BASEBOARD SCHEDULE

TAG	DESIGN MANUFACTURER AND MODEL	LENGTH	BTUH	ELECTRIC			REMARKS
				POWER	AMPS	WATTS	
EBB-1	MARKEL F3T12-060	5'	4250	208/60/1	6	1250	ARCHITECTURAL, 12 GAUGE WHITE HOUSING WITH BUILT-IN HEATING RELAY
EBB-2	MARKEL F3T12-060	5'	4250	208/60/1	6	1250	ARCHITECTURAL, 12 GAUGE WHITE HOUSING WITH BUILT-IN HEATING RELAY
EBB-3	MARKEL F3T12-060	5'	4250	208/60/1	6	1250	ARCHITECTURAL, 12 GAUGE WHITE HOUSING WITH BUILT-IN HEATING RELAY

ELECTRIC WALL HEATERS

TAG	DESIGN MANUFACTURER AND MODEL	BTUH	ELECTRIC			REMARKS
			POWER	AMPS	WATTS	
EWH-1	MARKEL E3321TD-RP	2560	120/60/1	6.25	750	COMMERCIAL FAN-FORCED WITH 4" SURFACE MOUNTING FRAME AND BUILT-IN THERMOSTAT
EWH-2	MARKEL E3321TD-RP	2560	120/60/1	6.25	750	COMMERCIAL FAN-FORCED WITH 2" SEMI-RECESSED FRAME AND BUILT-IN THERMOSTAT

AIR TERMINAL SCHEDULE

TAG	DESIGN MANUFACTURER & MODEL	SIZE	MAX NC	MAX SP	REMARKS
RI	PRICE 520S	8"x6"	20	.07	DOUBLE DEFLECTION SUPPLY REGISTER
G1	PRICE 530	8"x6"	20	.07	45 DEGREE RETURN GRILLE FOR SURFACE MOUNT
G2	PRICE 530	10"x8"	20	.07	45 DEGREE RETURN GRILLE FOR SURFACE MOUNT
G3	PRICE 530	12"x10"	20	.07	45 DEGREE OUTSIDE AIR AND EXHAUST GRILLE FOR SURFACE MOUNT

November 20, 2020 11:39 am X:\Projects\2007 Me Tpk Ext 45 Drawings\2007 M1-M2.dwg

Scale: NONE				Designed by: KURT MAGNUSSON, P.E.			
CONSULTANT PROJECT MANAGER: KFM							
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				KFM	11/07/20	In Charge of	



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THE GOLD STAR MEMORIAL HIGHWAY
 MTA PROJECT MANAGER: RALPH C. NORWOOD, IV., P.E., P.T.O.E.

EXIT 45
 INTERCHANGE RECONFIGURATION
 TOLL ADMINISTRATION BUILDING
 MECHANICAL
 SCHEDULES & NOTES

SHEET NUMBER: M02
 CONTRACT: 2021.07
 429 OF 431

1 ELECTRICAL SYMBOLS

NO SCALE

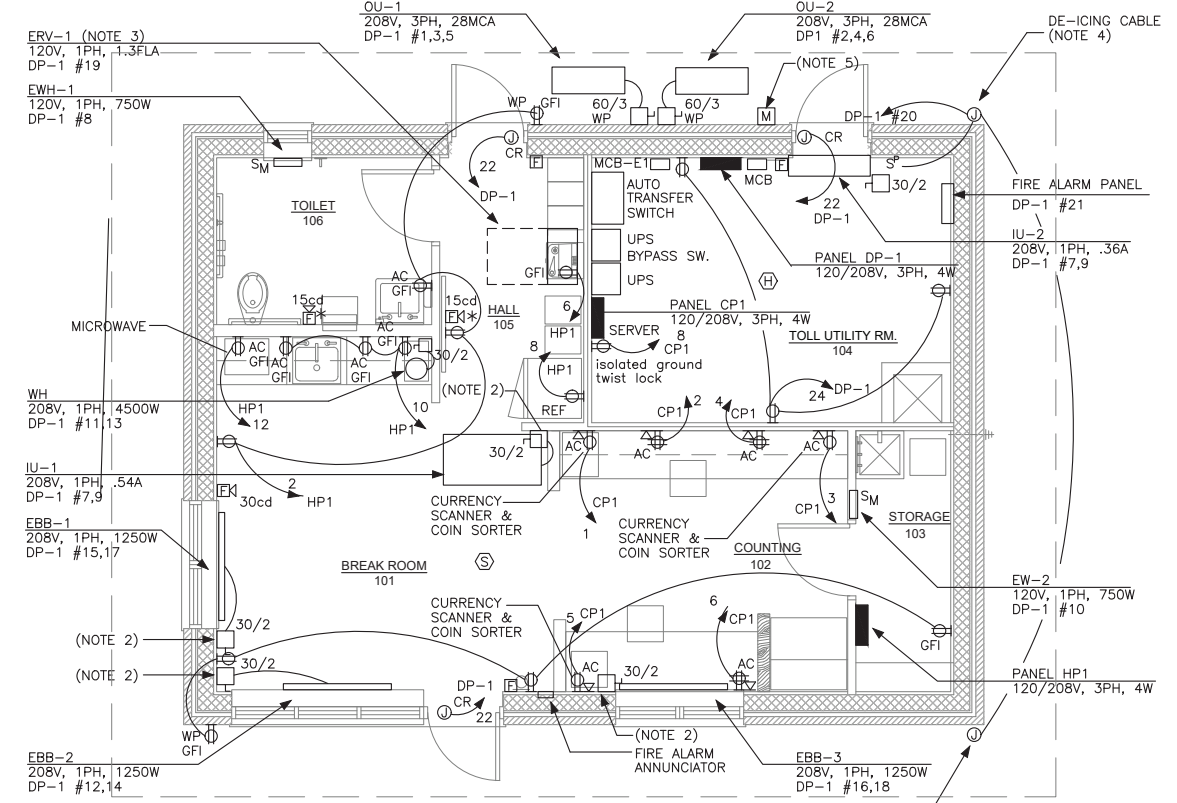
SYMBOL	DESCRIPTION
	125V, 20A, DUPLEX GROUNDED RECEPTACLE
	125V, 20A, QUAD GROUNDED RECEPTACLE
	125/250V, 30A, GROUNDED DRYER RECEPTACLE
	TELEPHONE OUTLET
	CABLE TELEVISION OUTLET
	WIRELESS DATA NETWORK OUTLET Mount 12" Below Ceiling
	ELECTRIC PANELBOARD (See Plans for Details)
	CONTROL PANEL (See Plans for Details)
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM AUDIO VISUAL Indicates Visual Only
	FIRE ALARM PULL STATION

SYMBOL	DESCRIPTION
	CEILING MOUNTED LIGHT
	Panelboard & Circuit Designation Fixture Designation
	RECESSED/CEILING/MTD LIGHT FIXTURE
	LIGHT/DEVICE SWITCH 3 = Three-Way Type P = Pilot Light
	CEILING MTD LTG CONTROL MOTION SENSOR
	UNFUSED DISCONNECT SWITCH No. Of Poles Ampere Rating
	MANUAL MOTOR STARTER
	JUNCTION BOX CR = Card Reader

2 PROJECT NOTES

NO SCALE

- PROVIDE LIGHTING FIXTURES AS FOLLOWS:
 TYPE A1 CREE LIGHTING #ZR24-40L HE-35K-10V, OR APPROVED EQUAL
 TYPE A2 CREE LIGHTING #ZR22-32L HE-35K-10V,
 TYPE J1 CREE LIGHTING #LS4-40L-35K-10V-TW, OR APPROVED EQUAL
 TYPE E1 DUAL-LITE #LZ15
 TYPE W1 ASL #22.3-3K-DV-FCU(WHITE)
 TYPE S1 CREE LIGHTING #LR6-18L-35K-120V-LT6A-DR
 TYPE X1 DUAL-LITE #LX-U-R-W
- MOUNT DISCONNECT SWITCHES INDICATED ABOVE SUSPENDED ACOUSTICAL TILE CEILING.
- COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLE POWERING MECHANICAL UNIT ERV-1 WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PLUMBING CONTRACTOR TO PROVIDE TWO LENGTHS OF DE-ICING CABLE WITHIN GUTTERS ON THE FRONT AND REAR OF THE BUILDING. ELECTRICAL CONTRACTOR SHALL PROVIDE THE POWER TO EACH CABLE LENGTH, WIRING BETWEEN THE TWO CABLE LENGTHS AND WIRING TO A SPST SWITCH WITH PILOT LIGHT MOUNTED WITHIN THE TOLL UTILITY ROOM.
- WHERE INDICATED ON THE BUILDING POWER PLAN, PROVIDE AN UNDERGROUND ELECTRICAL SERVICE FROM A NEW CENTRAL MAINE POWER COMPANY (CMP) UTILITY POLE. PROVIDE A CMP SERVICE METER ON THE OUTSIDE OF THE BUILDING. THE INSTALLATION OF THE SERVICE SHALL CONFORM TO ALL APPLICABLE CMP REQUIREMENTS.
- THE LIGHTNING PROTECTION SYSTEM SHALL BE UL LISTED WITH A MASTER CERTIFICATION LABEL.
- THE UPS WILL BE FURNISHED BY THE MAINE TURNPIKE AUTHORITY AND SHALL BE INSTALLED BY THE CONTRACTOR.

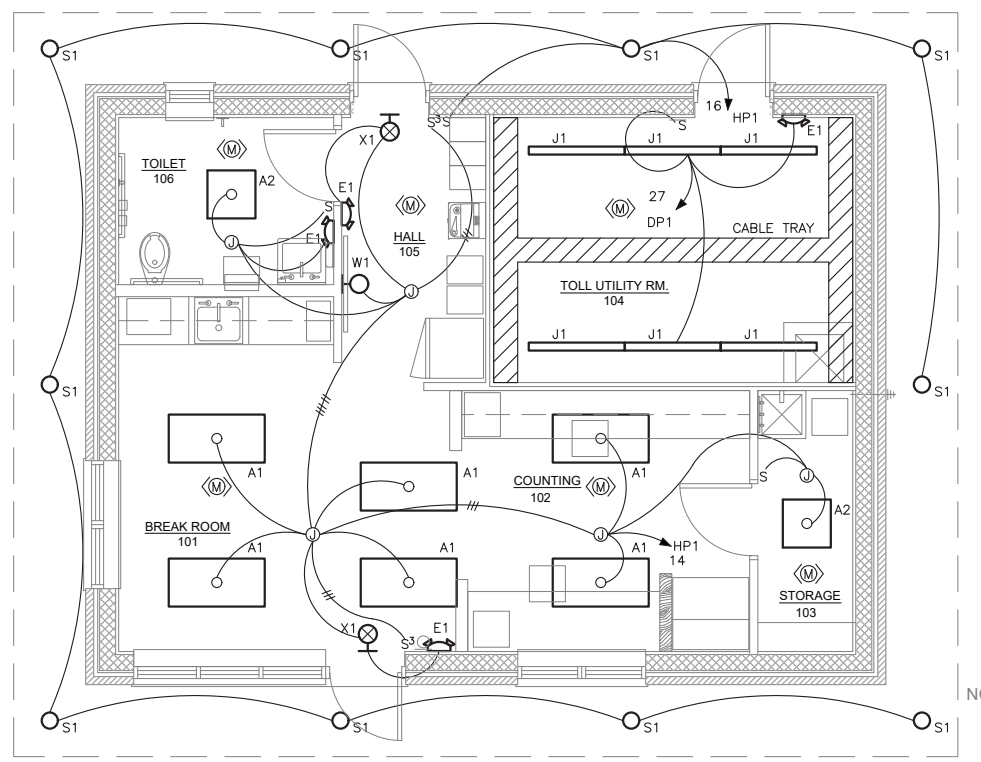
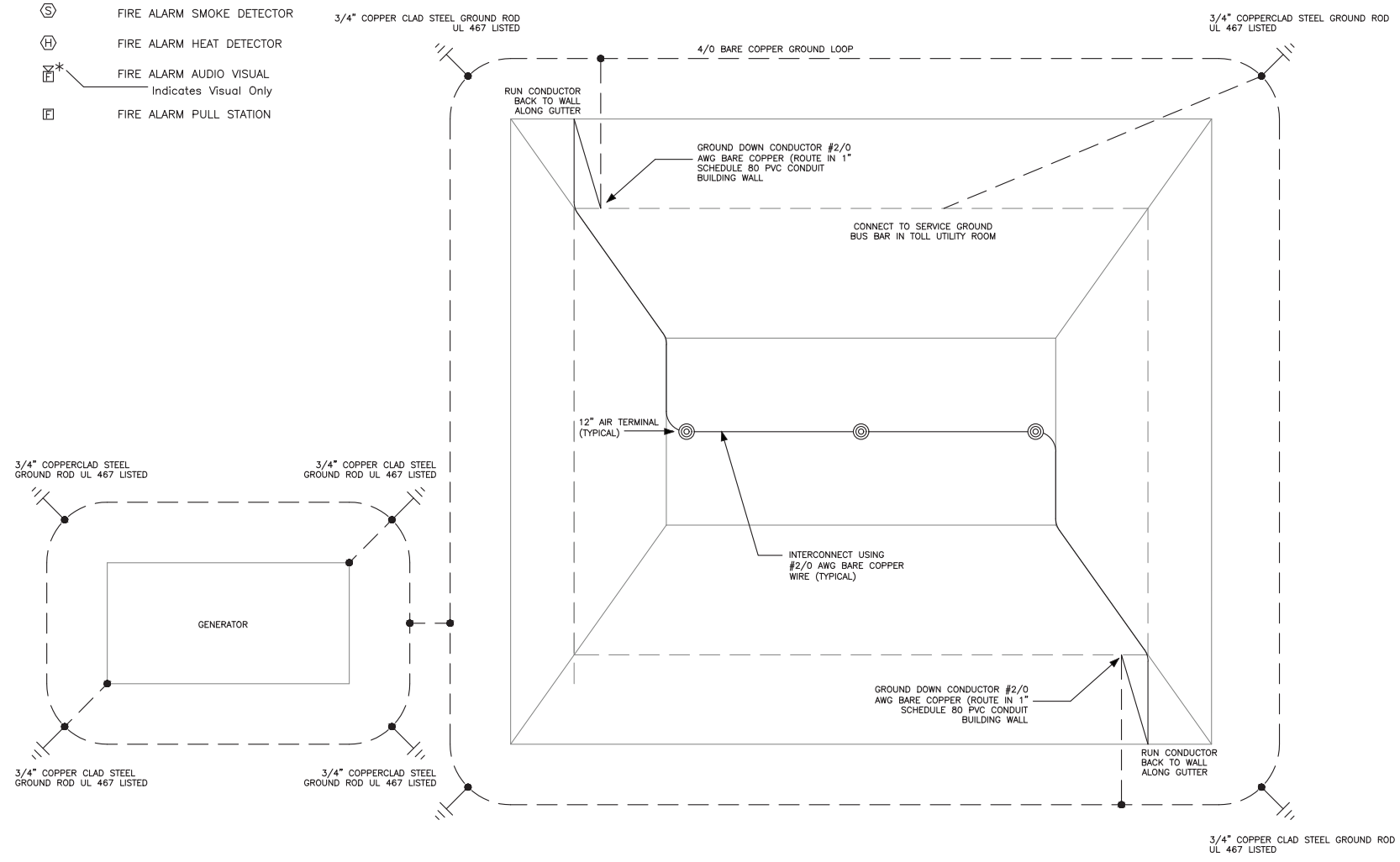


4 BUILDING POWER PLAN
1/4" = 1'-0"

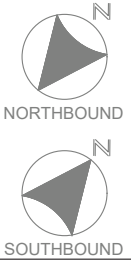
NOTE: RECEPTACLE OUTLETS CIRCUITED TO PANEL CP1 SHALL BE ISOLATED GROUND RATED. PROVIDE SEPARATE EQUIPMENT GROUND AND INSULATED ISOLATED GROUND CONDUCTORS.

3 BUILDING LIGHTNING PROTECTION PLAN

1/4" = 1'-0"



5 BUILDING LIGHTING PLAN
1/4" = 1'-0"



Date: 12-01-20

Scale:	AS NOTED		
Designed by:	Lawrence E. Partlett, PE		
CONSULTANT PROJECT MANAGER:	RAYMOND W. HANF, P.E.		
By	Date	By	Date
Designed	LEB 12-01-20	Checked	LEB 12-01-20
Drawn	LEB 12-01-20	In Charge of	

By	Date	By	Date
Designed	LEB 12-01-20	Checked	LEB 12-01-20
Drawn	LEB 12-01-20	In Charge of	

Bartlett Design
LIGHTING & ELECTRICAL ENGINEERING
5 PALMER STREET, BATH, ME 04530
TEL (207) 443-5447



**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 45
INTERCHANGE RECONFIGURATION**
TOLL ADMINISTRATION BUILDING
ELECTRICAL PLANS

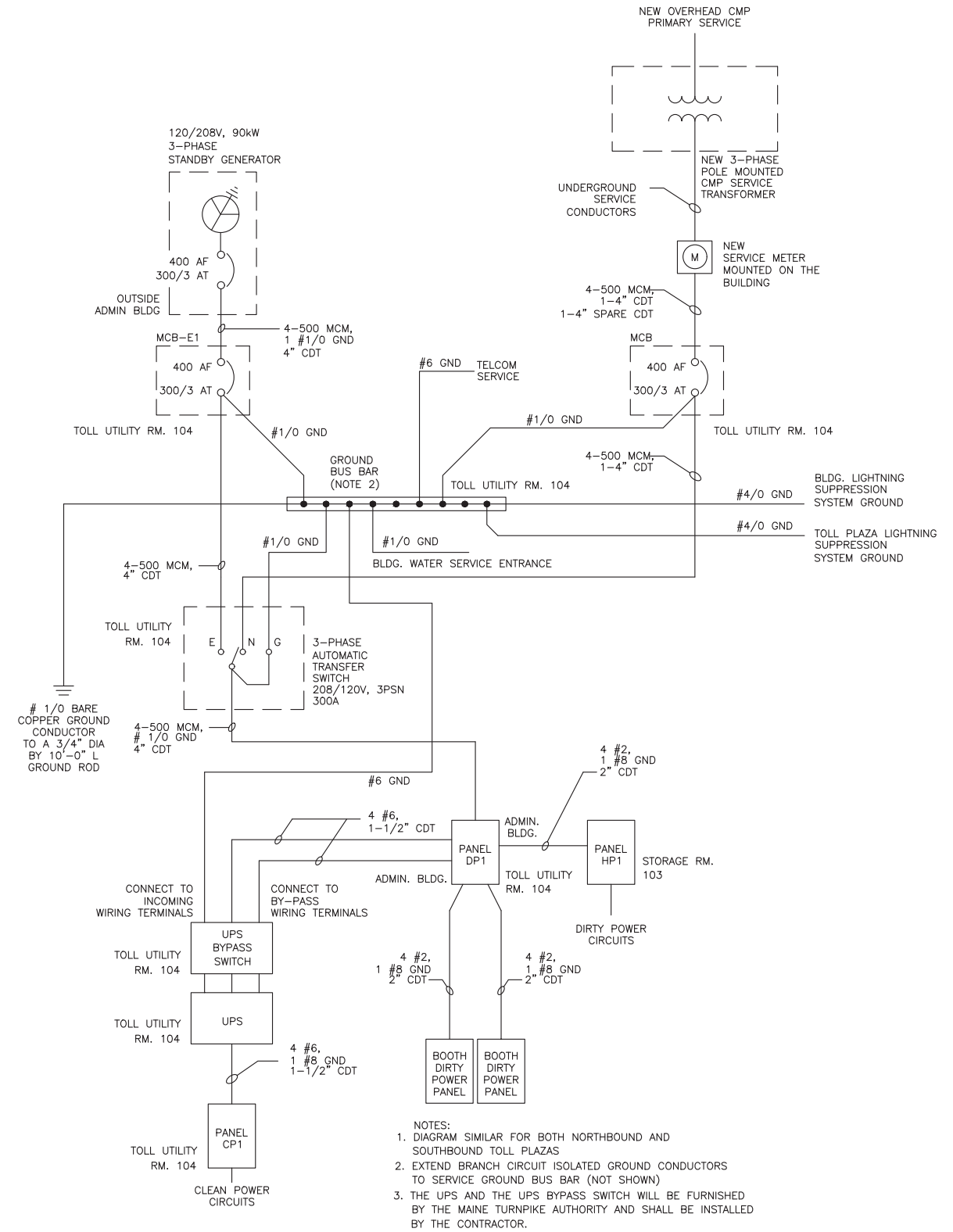
MTA PROJECT MANAGER: RALPH C. NORWOOD IV, P.E., P.T.O.E

CONTRACT: 2021.07

SHEET NUMBER: E-01

430 OF 431

Date: 12-01-20



- NOTES:
1. DIAGRAM SIMILAR FOR BOTH NORTHBOUND AND SOUTHBOUND TOLL PLAZAS
 2. EXTEND BRANCH CIRCUIT ISOLATED GROUND CONDUCTORS TO SERVICE GROUND BUS BAR (NOT SHOWN)
 3. THE UPS AND THE UPS BYPASS SWITCH WILL BE FURNISHED BY THE MAINE TURNPIKE AUTHORITY AND SHALL BE INSTALLED BY THE CONTRACTOR.

1 ELECTRICAL SINGLE LINE DIAGRAM
NO SCALE

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:
Lawrence E. Partlett, PE

CONSULTANT PROJECT MANAGER: RAYMOND W. HANF, P.E.

	By	Date		By	Date
Designed	LEB	12-01-20	Checked	LEB	12-01-20
Drawn	LEB	12-01-20	In Charge of		

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD IV, P.E., P.T.O.E

**EXIT 45
INTERCHANGE RECONFIGURATION**
TOLL ADMINISTRATION BUILDING
ELECTRICAL SINGLE LINE DIAGRAM

SHEET NUMBER: E-02
CONTRACT: 2021.07
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