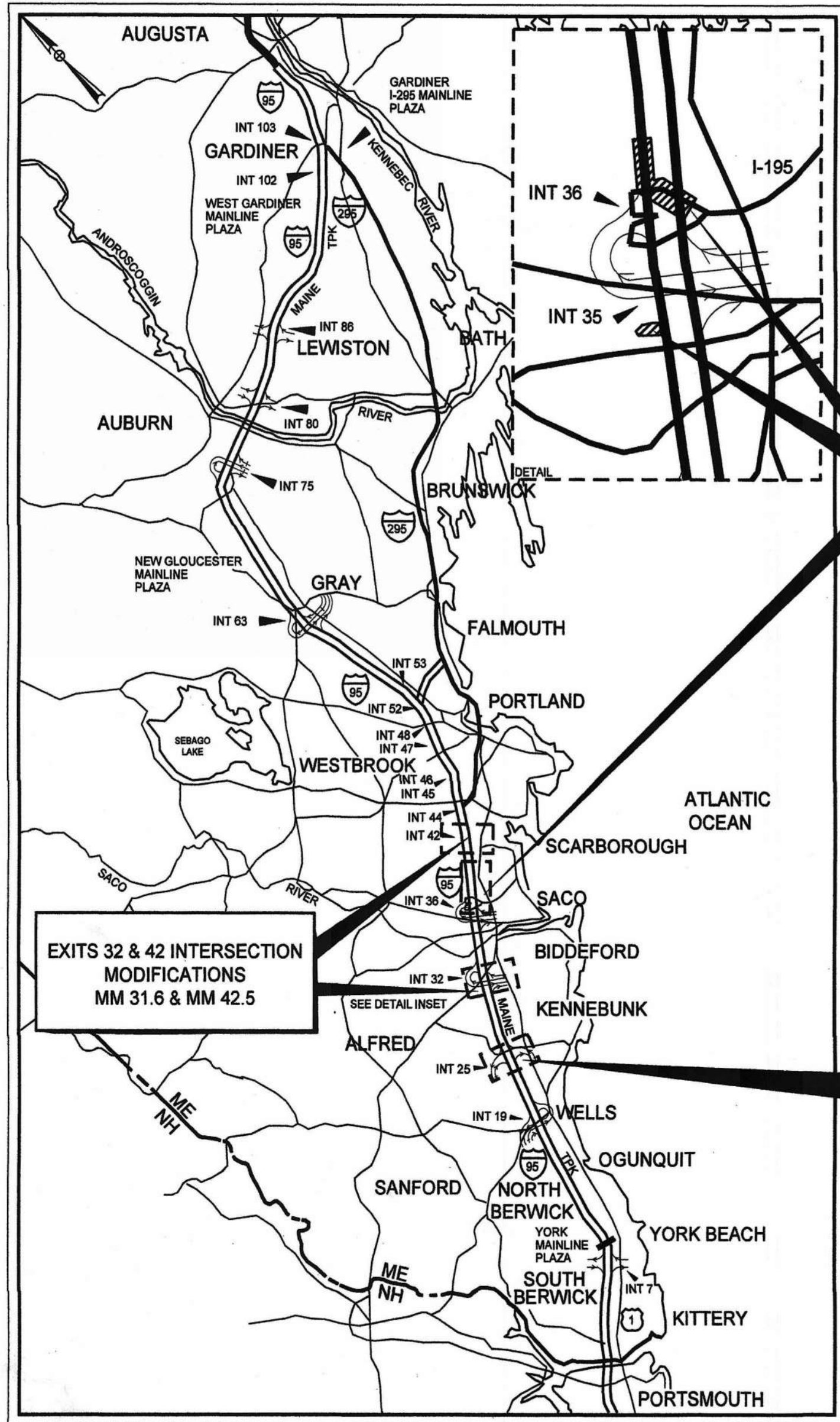


Date: 2/22/2022

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LOCATION MAP



THE GOLD STAR MEMORIAL HIGHWAY

# MAINE TURNPIKE AUTHORITY

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

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2022.02  
 EXIT 36 IMPROVEMENTS AND  
 PAVEMENT REHABILITATION  
 MM 35.5 TO MM 36.2  
 CULVERT OUTLET DITCHING  
 MM 34.9

EXIT 25 PAVING  
 MM 25.5

## CONTRACT 2022.02 EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION MM 35.5 TO MM 36.2

### CULVERT OUTLET DITCHING MM 34.9

### EXIT 25 PAVING MM 25.5

### EXITS 32 & 42 INTERSECTION MODIFICATIONS MM 31.6 & MM 42.5



APPROVED: MAINE TURNPIKE AUTHORITY

*Peter S. Merfeld*  
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER  
 MTA  
 DATE: 2-23-22

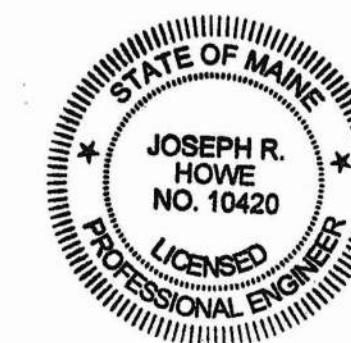
*Stephen R. Tartre*  
 STEPHEN R. TARTRE, P.E. - CHIEF ENGINEER &  
 DIRECTOR OF ENGINEERING  
 MTA  
 DATE: 2/22/22

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HNTB



SHEETS A1 - A7  
 TIMOTHY R. COTE, P.E. - VICE PRESIDENT  
 HNTB  
*Timothy R. Cote*  
 DATE: 2/23/2022



SHEETS 1 - 56  
 JOSEPH R. HOWE, P.E. - PROJECT MANAGER  
 STANTEC  
*Joseph R. Howe*  
 DATE: 2/22/22

CONTRACT 2022.02



Date: 2/28/2022

ESTIMATED QUANTITIES						
ITEM NO.	ITEM	UNIT	EXIT 36 QUANTITY	EXIT 25 QUANTITY	EXITS 32&42 QUANTITY	TOTAL QUANTITY
201.11	CLEARING	AC	1			1
202.202	REMOVING PAVEMENT SURFACE	SY	29,700	9900	20	39,620
202.2026	REMOVING PAVEMENT SURFACE - DRAINAGE PATHS	SF	290			290
203.20	COMMON EXCAVATION	CY	3090			3090
203.25	GRANULAR BORROW	CY	1771			1771
203.33	SPECIAL FILL - STREAMBED MATERIAL	CY	8			8
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY	560			560
304.14	AGGREGATE BASE COURSE - TYPE A	CY	370			370
403.207	HOT MIX ASPHALT, 19.0 mm NOMINAL MAXIMUM SIZE	TON	440			440
403.2081	HOT MIX ASPHALT, 12.5 mm (POLYMER MODIFIED) - RAP	TON	2650	840		3490
403.211	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE (SHIMMING)	TON	50	50		100
403.213	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)	TON	140			140
409.152	BITUMINOUS TACK COAT NTSS - IHM TRACKLESS - APPLIED	GAL	2050	600		2650
419.30	SAWING BITUMINOUS PAVEMENT	LF	1750			1750
424.323	ASPHALT RUBBER MASTIC CRACK SEALER - APPLIED	LB	3150	990		4140
470.08	BERM DROPOFF CORRECTION - GRINDINGS	TON	310	130		440
470.081	BERM CORRECTION	LF	990			990
511.071	COFFERDAM	LS	1			1
515.201	PIGMENTED PROTECTIVE COATING FOR CONCRETE SURFACES	SY	610			610
526.301	TEMPORARY CONCRETE BARRIER TYPE I	LF	1350			1350
527.341	WORK ZONE CRASH CUSHION - TL-3	UNIT	1			1
603.155	12 INCH REINFORCED CONCRETE PIPE - CLASS III	LF	20			20
603.215	36 INCH REINFORCED CONCRETE PIPE - CLASS III	LF	16			16
603.28	CONCRETE COLLAR	EA	4			4
603.7415	REMOVE & RELAY 15" CONCRETE PIPE	LF	8			8
603.7418	REMOVE & RELAY 18" CONCRETE PIPE	LF	8			8
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	EA	1			1
604.182	CLEANING EXISTING CATCH BASIN AND MANHOLE	EA	10			10
604.184	REBUILD CATCH BASIN TO GRADE - TYPE II	EA	1			1
604.246	CATCH BASIN TYPE F5	EA	1			1
605.11	12 INCH UNDERDRAIN TYPE C	LF	110			110
606.13	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (7" STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)	LF	520			520
606.1307	31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL	EA	4			4
606.132	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (7" STEEL POSTS, 8" OFFSET BLOCKS, DOUBLE FACED)	LF	47			47
606.1351	31" W-BEAM GUARDRAIL - MID-WAY SPLICE TERMINAL END - ANCHORED END	EA	8			8
606.178	GUARDRAIL BEAM	LF	50			50
606.352	REFLECTORIZED BEAM GUARDRAIL DELINEATOR	EA	200			200
606.356	UNDERDRAIN DELINEATOR POST	EA	41			41
606.3561	DELINEATOR POST - REMOVE AND RESET	EA	20			20
606.3621	GUARDRAIL ADJUST, SINGLE RAIL	LF	6550			6550
606.3622	GUARDRAIL ADJUST, DOUBLE RAIL	LF	240			240
606.471	SINGLE OFFSET BLOCK - W BEAM	EA	20			20
606.48	SINGLE GALVANIZED STEEL POST	EA	10			10
606.755	MODIFY WIDENED SHOULDER FOR GUARDRAIL TERMINAL	EA	4			4
610.08	PLAIN RIPRAP	CY	670			670
610.181	TEMPORARY STONE CHECK DAM	CY	38			38
610.213	VOID-FILLED RIPRAP - TYPE A OR B	CY	72			72
613.319	EROSION CONTROL BLANKET	SY	1050			1050
615.07	LOAM	CY	290			290
618.14	SEEDING METHOD NUMBER 2	UNIT	51			51
619.1201	MULCH - PLAN QUANTITY	UNIT	51			51
619.1202	TEMPORARY MULCH	LS	1			1
619.1401	EROSION CONTROL MIX	CY	60			60
620.58	EROSION CONTROL GEOTEXTILE	SY	1700			1700


ESTIMATED QUANTITIES						
ITEM NO.	ITEM	UNIT	EXIT 36 QUANTITY	EXIT 25 QUANTITY	EXITS 32&42 QUANTITY	TOTAL QUANTITY
626.121	QUAZITE JUNCTION BOX (36X24)	EA	7		4	11
626.122	QUAZITE JUNCTION BOX (18X11)	EA	11			11
626.22	NON-METALLIC CONDUIT	LF	4850		950	5800
626.223	HORIZONTAL DIRECTIONAL DRILLED CONDUIT	LF	710			710
626.32	24 INCH DIAMETER FOUNDATION	EA	5		1	6
626.35	CONTROLLER CABINET FOUNDATION	EA			1	1
626.36	REMOVE OR MODIFY CONCRETE FOUNDATION	EA			4	4
626.38	GROUND MOUNTED CABINET FOUNDATION	EA	1			1
626.48	60-INCH DIAMETER FOUNDATION	LF			48	48
627.18	12" SOLID WHITE PAVEMENT MARKING LINE	LF	550			550
627.712	WHITE OR YELLOW PAVEMENT MARKING LINE	LF	25,100	4950		30,050
627.73	TEMPORARY 6 INCH PAVEMENT MARKING TAPE	LF	620			620
627.733	4" WHITE OR YELLOW PAVEMENT MARKING LINE	LF			340	340
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	SF		420	500	920
627.77	REMOVING EXISTING PAVEMENT MARKING	SF	600		2150	2750
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LF	27,400	4950		32,350
627.812	TEMPORARY RAISED PAVEMENT MARKERS	EA	1650	150		1800
627.94	PAVEMENT MARKING TAPE	LF	170			170
627.941	PAVEMENT MARKING TAPE - DOTTED WHITE LANE LINE, 6-INCH WIDTH	LF	240			240
627.944	PAVEMENT MARKINGS - RECESSED TAPE - WORDS, ARROWS, STOP BARS	SF			60	60
629.05	HAND LABOR, STRAIGHT TIME	HR	20			20
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR	10			10
631.133	SKID STEER (INCLUDING OPERATOR)	HR	20			20
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	HR	20			20
631.22	FRONT END LOADER (INCLUDING OPERATOR)	HR	10			10
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	HR	20			20
631.36	FOREMAN	HR	20			20
631.53	ELECTRICIAN	HR	20			20
634.1612	HIGHWAY LIGHTING PANEL AND SERVICE UPGRADES	LS	1			1
634.2312	CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE - SUPPLIED BY THE AUTHORITY	EA	5			5
643.71	TRAFFIC SIGNAL MODIFICATION AT: EXIT 32 AND ROUTE III	LS			1	1
643.9111	RESET EXISTING MAST ARM POLES: MA4 - Exit 32	LS			1	1
643.9112	RESET EXISTING MAST ARM POLES: MA3 - Exit 32	LS			1	1
643.9113	RESET EXISTING MAST ARM POLES: EXIT 42	LS			1	1
643.92	PEDESTAL POLE	EA			1	1
645.105	REMOVE AND STACK SIGN	EA			5	5
645.109	REMOVE AND RESET SIGN	EA			3	3
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGN, TYPE I	SF	7		35	42
652.30	FLASHING ARROW	EA	4			4
652.312	TYPE III BARRICADES	EA	4	2		6
652.33	DRUM	EA	310		60	370
652.34	CONE	EA	65	40	60	165
652.35	CONSTRUCTION SIGNS	SF	2680	270	190	3140
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	0.91	0.04	0.05	1
652.38	FLAGGERS	HR		190	150	340
652.381	TRAFFIC OFFICERS	HR			33	33
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	EA	10			10
652.45	TRUCK MOUNTED ATTENUATOR	CD	82		1	83
652.452	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	EA	2			2
652.47	SEQUENTIAL FLASHING WARNING LIGHTS	EA	30			30
656.50	BALED HAY, IN-PLACE	EA	50			50
656.60	TEMPORARY BERMS	LF	1850			1850
656.62	TEMPORARY SLOPE DRAINS	LF	100			100
656.632	30' TEMPORARY SILT FENCE	LF	4720			4720
659.10	MOBILIZATION	LS	0.80	0.08	0.12	1

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No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

By	Date	By	Date
Designed	THG 10\21	Checked	JRH 10\21
Drawn	CHL 10\21	In Charge of	JRH 10\21

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376



**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION

ESTIMATED QUANTITIES

SHEET NUMBER: EQ-01

CONTRACT: 2022.02

2 OF 56

**GENERAL NOTES:**

- ALL WORK SHALL CONFORM TO THE 2014 MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- ALL STANDARD DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINE DOT) STANDARD DETAILS HIGHWAY AND BRIDGES LATEST REVISIONS AND MAINE DOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS.
- THE CONTRACTOR SHALL SUBMIT THEIR PROPOSED STAGING AREA(S) TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- AT THE CONTRACTOR'S OPTION, THE WORK AT EXIT 32 MAY BE LAID OUT RELATIVE TO EXISTING FEATURES IN LIEU OF FULL SURVEY AND SHALL BE APPROVED BY THE RESIDENT PRIOR TO THE START OF ANY CONSTRUCTION.
- CONCRETE FOUNDATIONS NOT FULLY REMOVED SHALL BE MODIFIED SO THAT THE TOP OF THE REMAINING PORTION OF THE FOUNDATION IS A MINIMUM OF 2 FEET BELOW FINISHED GRADE. FINAL ELEVATION TO BE APPROVED BY THE RESIDENT PRIOR TO THE MODIFIED FOUNDATION BEING COVERED.
- THE CONTRACTOR SHALL NOT RUN MILLING MACHINES, PAVERS, ROLLERS, OR OTHER HEAVY EQUIPMENT OVER THE TOLL SLABS.
- AT THE CONTRACTOR'S OPTION, BITUMINOUS TACK COAT NTSS-IHM TACKLESS - APPLIED AT EXIT 32 MAY BE SUBSTITUTED WITH BITUMINOUS TACK COAT RS-1 OR RSIH - APPLIED.

**EARTHWORK**

- CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES AND 5' IN WETLANDS 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 AREAS BEYOND THE CONSTRUCTION SLOPE LIMITS AND OUTSIDE OF WETLAND AREAS SHALL BE GRUBBED AND STUMPS REMOVED, GRADED TO DRAIN, AND SEEDED. PAYMENT FOR GRUBBING AND STUMP REMOVAL SHALL BE UNDER ITEM 203.20 - COMMON EXCAVATION.
- CLEARING AREAS BEYOND THE CONSTRUCTION SLOPE LIMITS AND WITHIN WETLANDS SHALL HAVE STUMPS CUT AS CLOSE TO THE GROUND AS PRACTICABLE AND THE EXISTING GROUND SHALL NOT BE UNDULY DISTURBED OR COMPACTED.
- 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 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 BORROW FOR THE EXIT 36 IMPROVEMENTS SHALL COME FROM SUITABLE EXCAVATION FROM THE NORTHBOUND ACCELERATION LANE CONSTRUCTION. THE CONTRACTOR SHALL PLAN THEIR WORK TO USE AVAILABLE MATERIAL.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATIONS)
- RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- COMMON BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR. GRANULAR BORROW AND AGGREGATE SHALL BE COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.

**DRAINAGE NOTES:**

- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT APPROVAL OF THE RESIDENT.
- 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.
- 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).
- ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.

**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.
- ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
- 4" LOAM HAS BEEN ESTIMATED FOR THE DISTURBED SLOPE AREA EXCEPT FOR CONDUIT INSTALLATION 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.
- TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEP BEST MANAGEMENT PRACTICES.
- TEMPORARY BERMS AND TEMPORARY SLOPE DRAINS ARE ANTICIPATED AT ALL STONE DOWNSPOUT LOCATIONS WHILE GROWTH IS BEING ESTABLISHED
- 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.

**UTILITY NOTES:**

- 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 CONTACT DIG SAFE AT 1-888-7233, 811, OR WWW.DIGSAFE.COM IN CONFORMANCE WITH ALL STATE AND LOCAL LAWS, ORDINANCES, AND STATUTES.
- THE MAINE TURNPIKE AUTHORITY IS A NON-MEMBER UTILITY OPERATOR AND IS NOT REGISTERED WITH THE DIG SAFE SYSTEM. THE CONTRACTOR SHALL CONTACT ALL NON-MEMBERS THROUGH WWW.OKTODIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. ALL PROPOSED EXCAVATION LOCATIONS SHALL BE MARKED AT THE TIME OF NOTIFICATION. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAFE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATOR COORDINATION.
- THE UTILITIES INVOLVED IN THIS CONTRACT ARE:  
CENTRAL MAINE POWER  
MAINE TURNPIKE AUTHORITY  
KENNEBUNK WATER DISTRICT  
KENNEBUNK SEWER DISTRICT  
UNITIL  
FIRSTLIGHT  
CONSOLIDATED COMMUNICATIONS  
CHARTER COMMUNICATIONS  
CITY OF BIDDEFORD  
MAINE DEPARTMENT OF TRANSPORTATION
- THE CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION AS APPROVED BY THE UTILITY OWNERS.

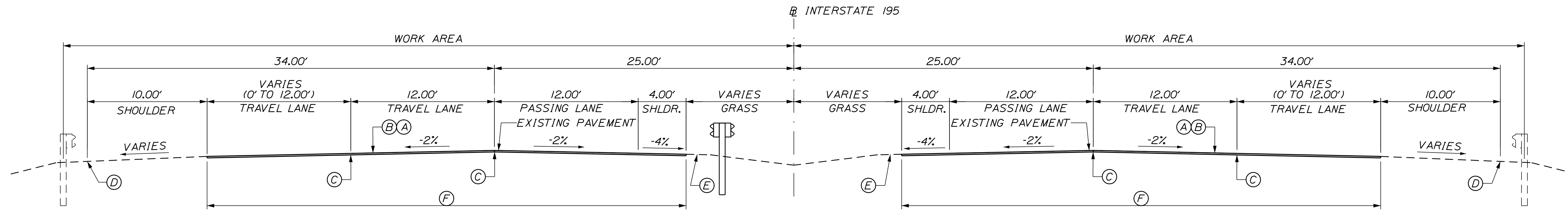
**STRIPING LEGEND**

BWL	6' BROKEN WHITE LANE LINE
DWL	6' DOTTED WHITE LANE LINE
SWL	6' SOLID WHITE LANE LINE
SWGL	12' SOLID WHITE GORE LINE
SYL	6' SOLID YELLOW LANE LINE

Filename: ...\\HIGHWAY\MSTA\GeneralNotes.dgn

Scale: <b>NOT TO SCALE</b>		Designed by: <b>Stantec</b>		STANTEC CONSULTING SERVICES INC. 2211 CONGRESS STREET SUITE 380 PORTLAND, ME 04102 TEL (207) 887-3448 FAX (207) 883-3376		 <b>THE GOLD STAR MEMORIAL HIGHWAY</b>		<b>EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION</b>  <b>GENERAL NOTES</b>																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 15%;">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: JOSEPH HOWE, P.E. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"> </th> <th style="width: 10%;">By</th> <th style="width: 10%;">Date</th> <th style="width: 10%;"> </th> <th style="width: 10%;">By</th> <th style="width: 10%;">Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>THG</td> <td>10\21</td> <td>Checked</td> <td>JRH</td> <td>10\21</td> </tr> <tr> <td>Drawn</td> <td>CHL</td> <td>10\21</td> <td>In Charge of</td> <td>JRH</td> <td>10\21</td> </tr> </tbody> </table>			By	Date		By	Date	Designed	THG	10\21	Checked	JRH	10\21	Drawn	CHL	10\21	In Charge of	JRH	10\21	MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE		CONTRACT: 2022.02	
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								SHEET NUMBER: GN-01																																	
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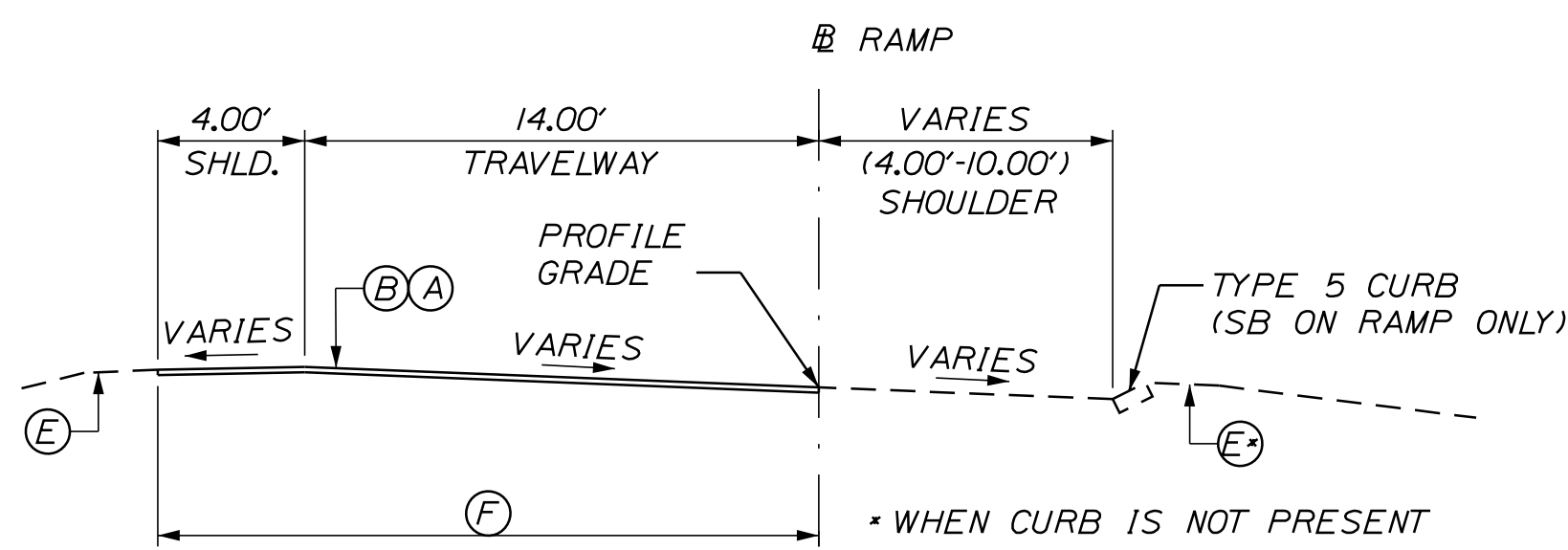
Date: 2/28/2022



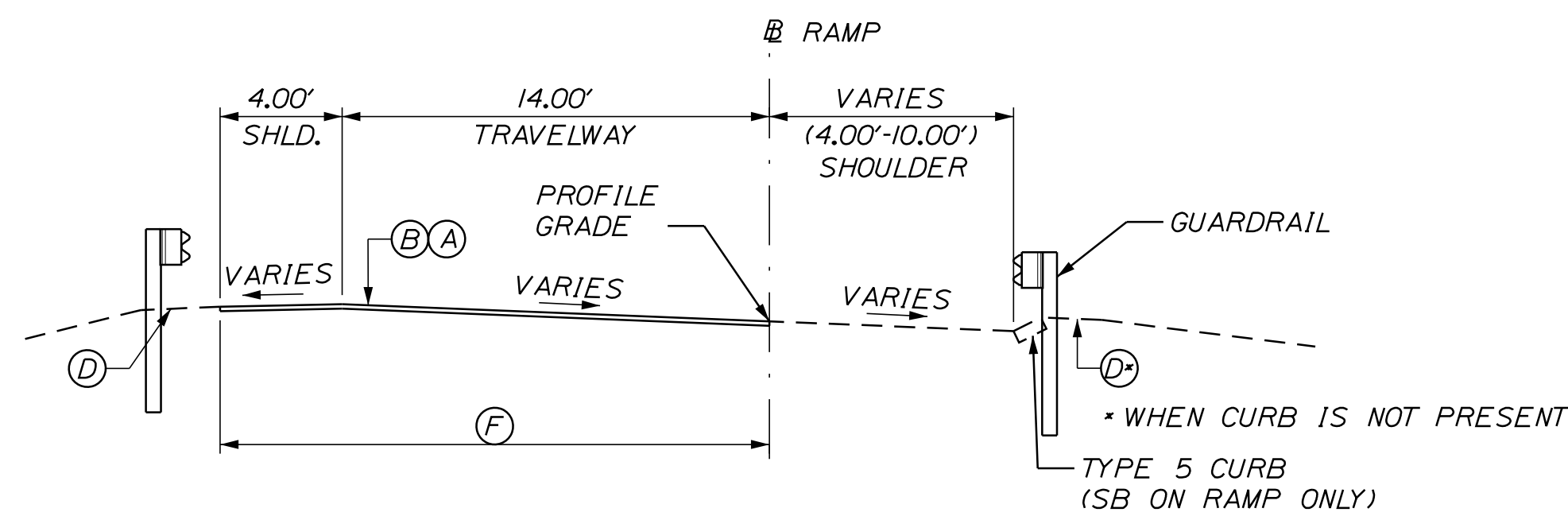
**PAVEMENT MILL & OVERLAY**

**PAVEMENT LEGEND:**

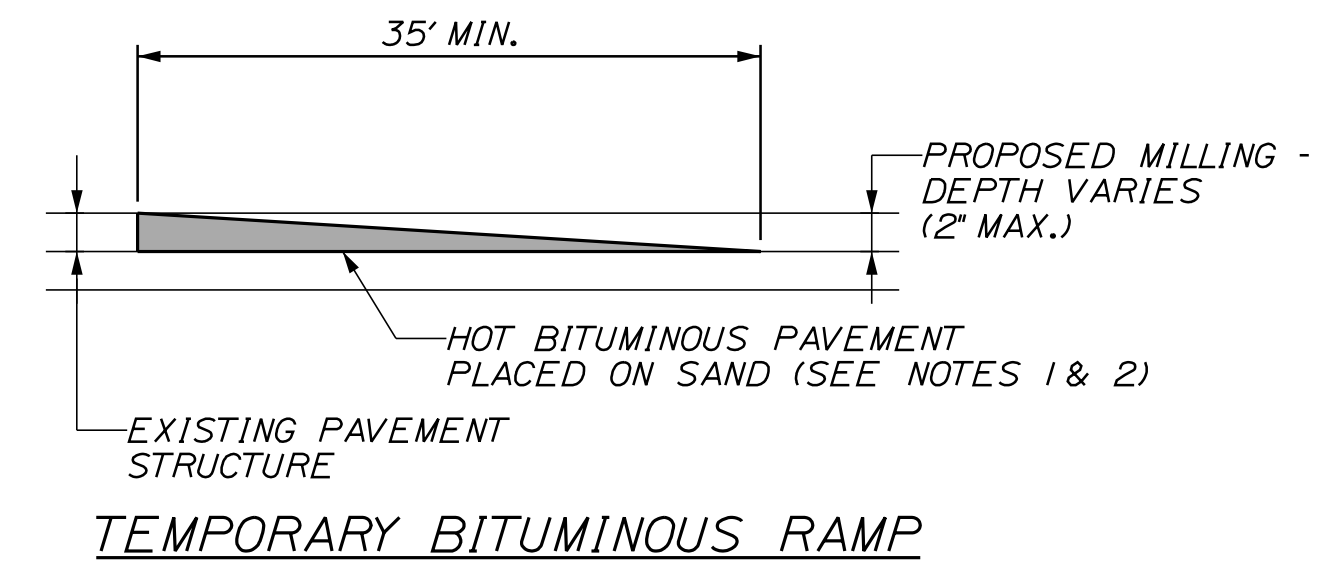
- (A) = 1/2" HOT MIX ASPHALT 12.5 mm NOMINAL MAXIMUM SIZE (POLYMER MODIFIED)
- (B) = MILLING DEPTH VARIES TO ACHIEVE A 1/2" DEPTH AT THE EDGES OF LANE BEING MILLED.
- (C) = DOUBLE LAYER OF TACK ON NOTCHED EDGE
- (D) = BERM DROPOFF CORRECTION - GRINDINGS (SEE DETAIL A, SHEET DT-06).
- (E) = BERM DROPOFF CORRECTION - GRINDINGS SEE DETAIL B, SHEET DT-06).
- (F) = LIMITS OF MILL AND OVERLAY.



**RAMP MILL AND OVERLAY WITHOUT GUARDRAIL**



**RAMP MILL AND OVERLAY WITH GUARDRAIL**

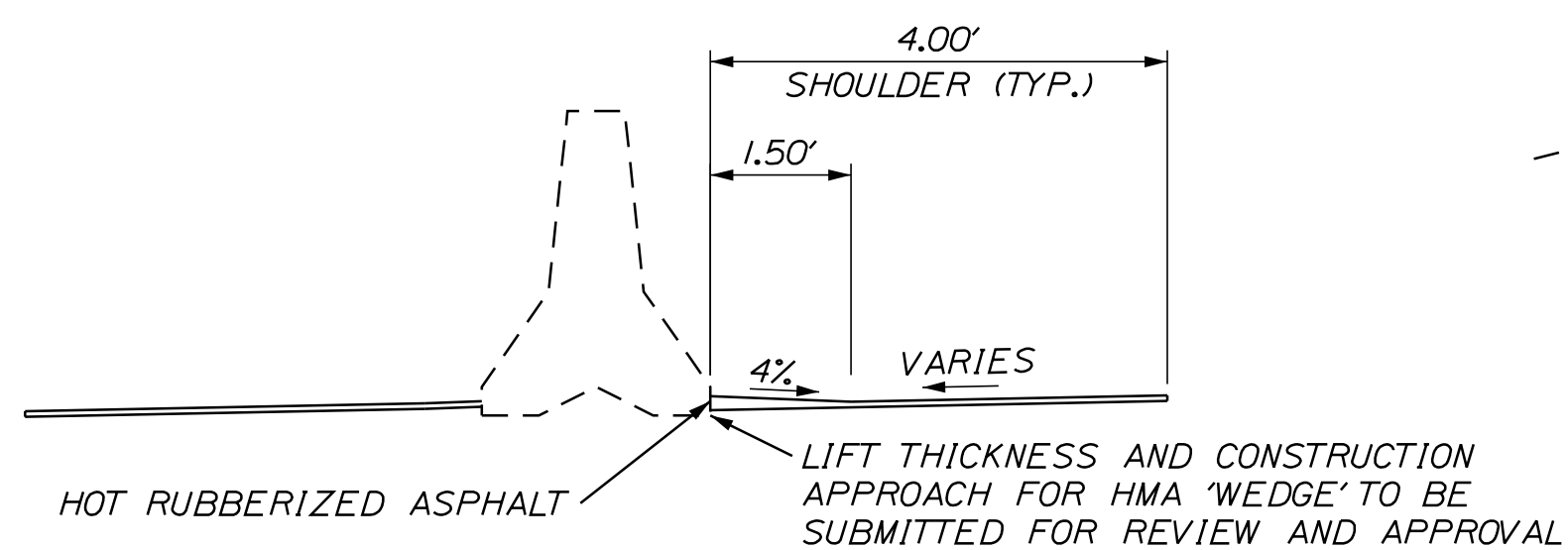


**NOTES:**

1. HOT MIX ASPHALT FOR TEMPORARY RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO THE APPROPRIATE 403 ITEM.
2. REMOVAL OF TEMP. BITUMINOUS RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO THE APPROPRIATE 403 ITEM.

**NOTES:**

1. COATING OF HOT RUBBERIZED ASPHALT (ASTM D6690 TYPE IV) SHALL BE APPLIED AT THE TOP SURFACE LIFT TO ALL TRANSVERSE BUTT JOINTS AND LONGITUDINAL JOINTS EXCEPT WHERE THE NOTCHED WEDGE IS USED.
2. BITUMINOUS TACK COAT IS REQUIRED BETWEEN EXISTING PAVEMENT AND PROPOSED HMA.
3. PAYMENT FOR HOT MIX ASPHALT 12.5 mm NOMINAL MAXIMUM SIZE WILL BE MADE UNDER ITEM 403.2081.
4. LANE WIDTHS VARY AT APPROACHES TO WESTBOUND TOLL PLAZA.
5. THE CONTRACTOR SHALL STRING EACH BRIDGE AND TOLL SLAB APPROACH /DEPARTURE LANE IN ADVANCE OF MILLING AND PAVING OPERATIONS. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR'S PERSONNEL EXPERIENCED IN STRINGING BRIDGE APPROACH LANES. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE TO THE AUTHORITY'S RESIDENT SO THAT THEY CAN BE PRESENT.
6. CROSS SLOPE TRANSITIONS TO MATCH EXISTING CROSS SLOPES SHALL BE AS DIRECTED BY THE RESIDENT.
7. ALL PAVEMENT JOINTS WITH VERTICAL CONCRETE SURFACES SHALL HAVE HOT POURED BITUMINOUS SEALANT (INCIDENTAL TO RELATED PAVEMENT ITEMS).
8. 14' WIDE RAMP LANES SHALL BE PAVED IN A SINGLE PASS SUCH THAT LONGITUDINAL JOINTS ARE AT THE EDGES OF THE LANE.



**RAMP MILL AND OVERLAY ADJACENT TO BARRIER**

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION TYPICAL SECTIONS 1 MILL AND OVERLAY

SHEET NUMBER: TS-01

CONTRACT: 2022.02

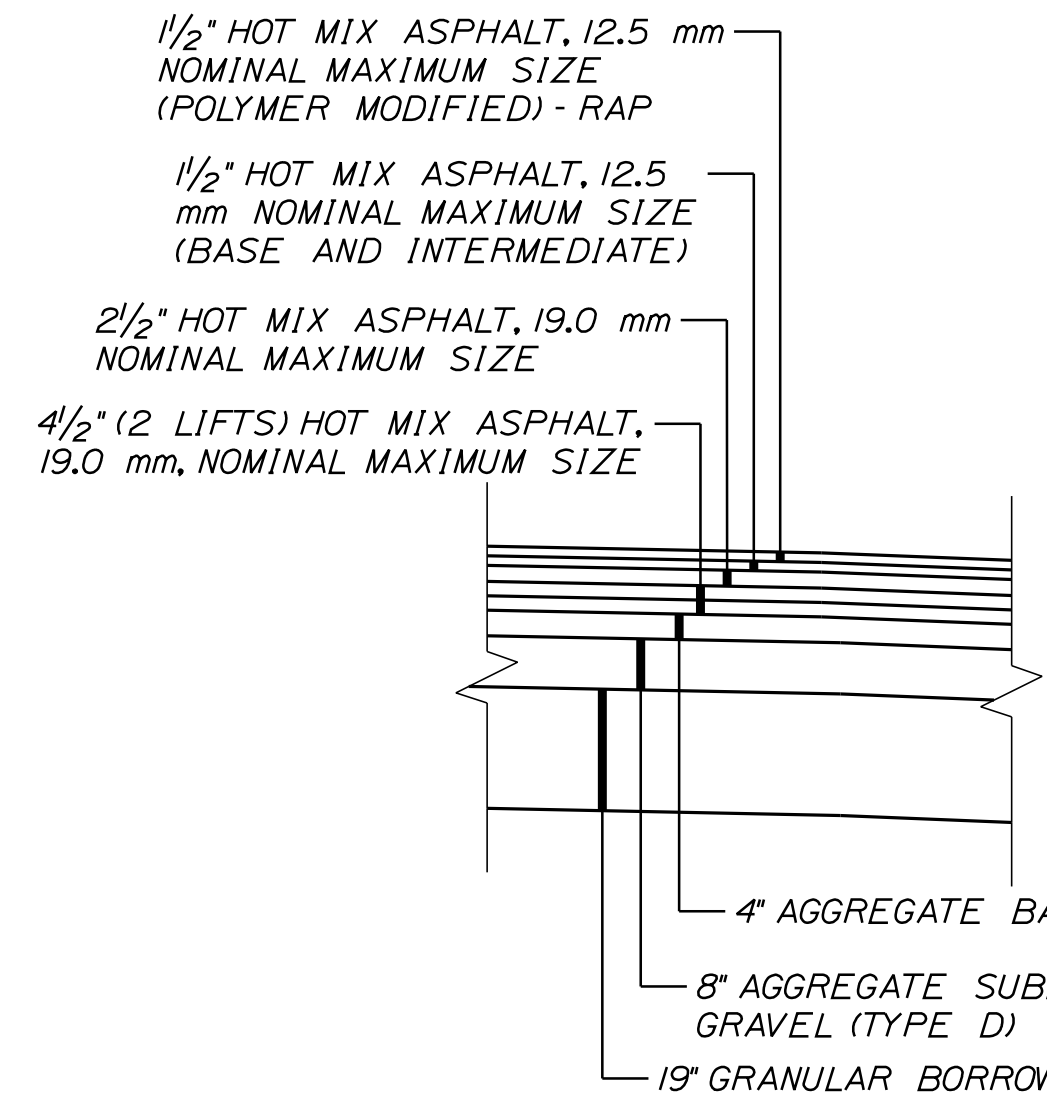
4 OF 56

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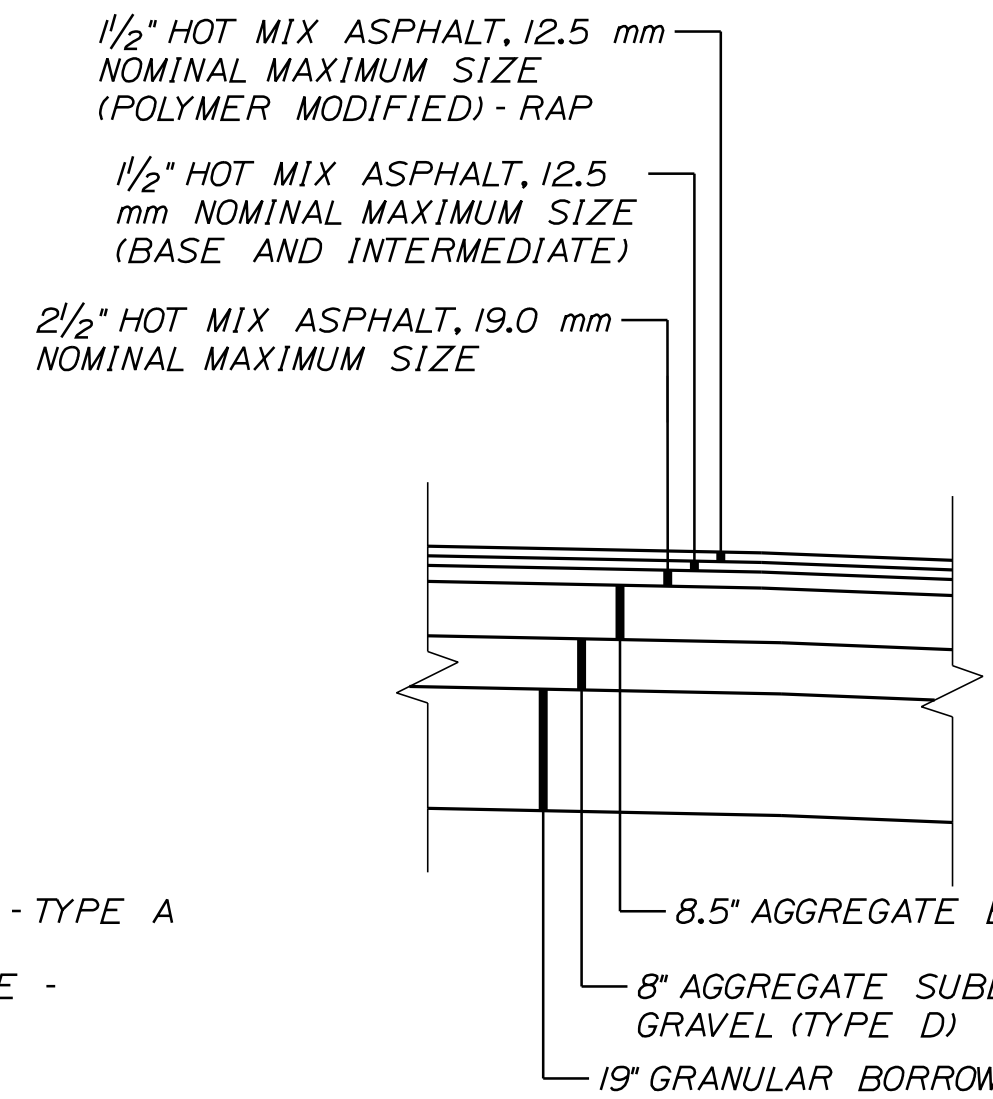


Date: 2/28/2022

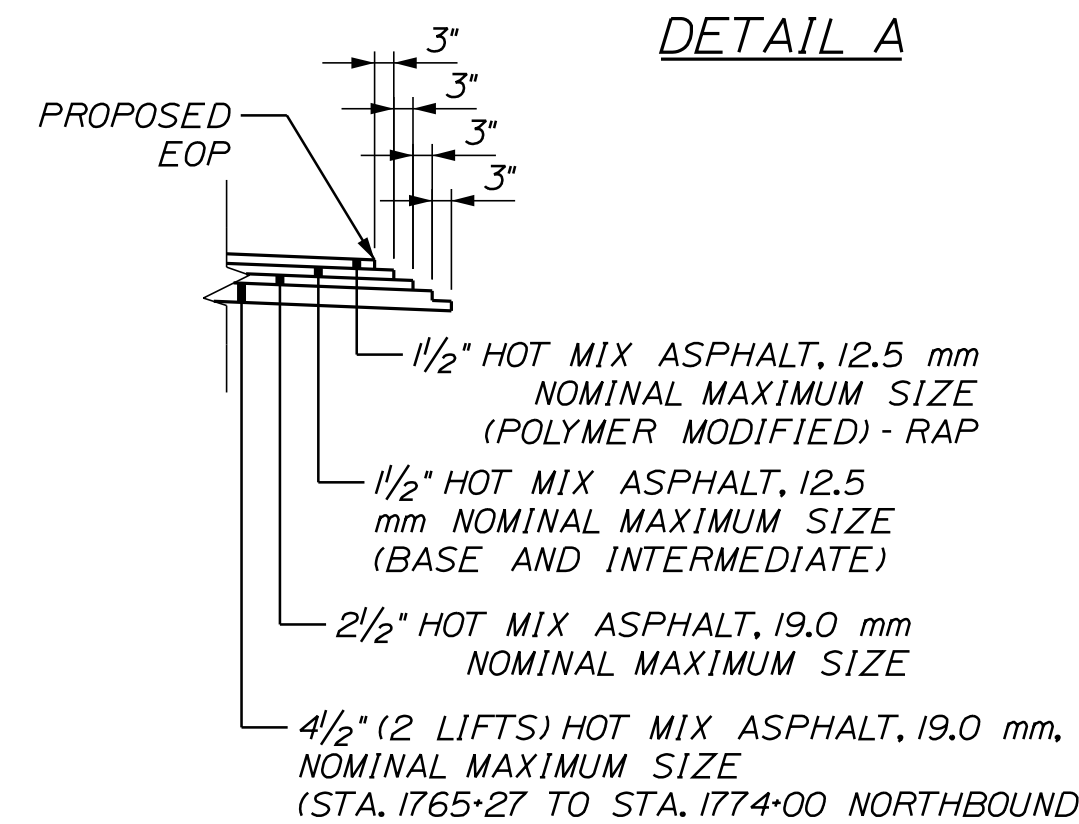
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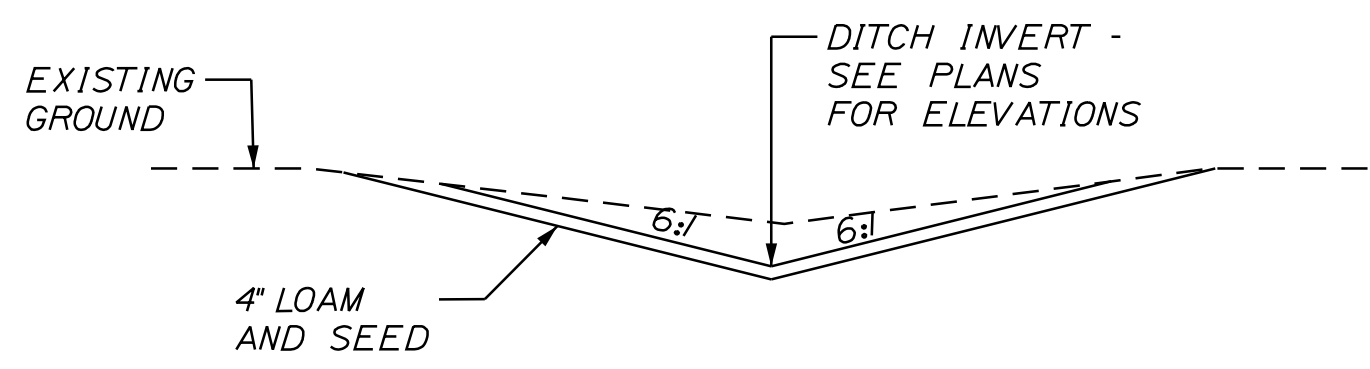
DETAIL A



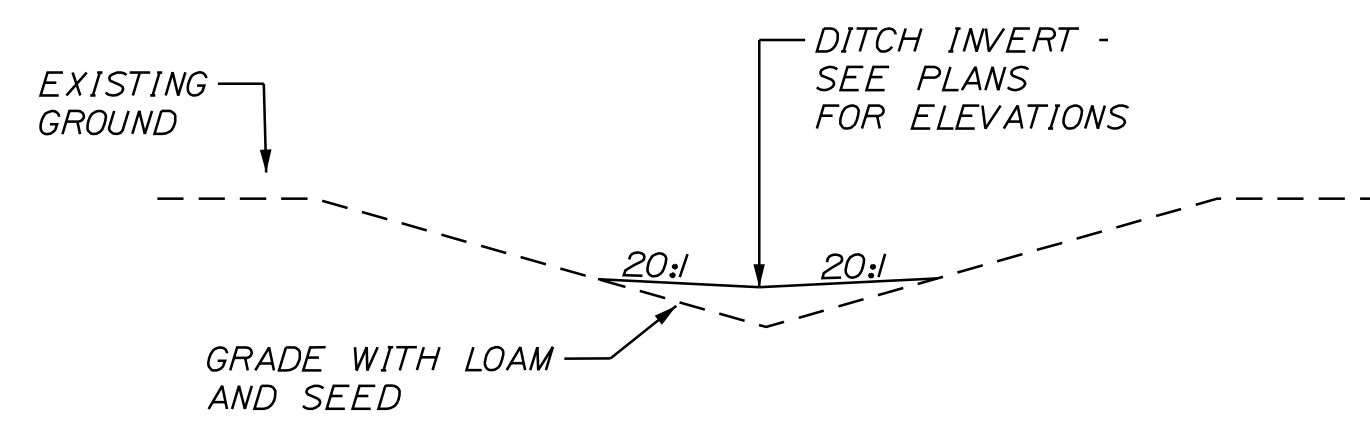
DETAIL C



DETAIL B

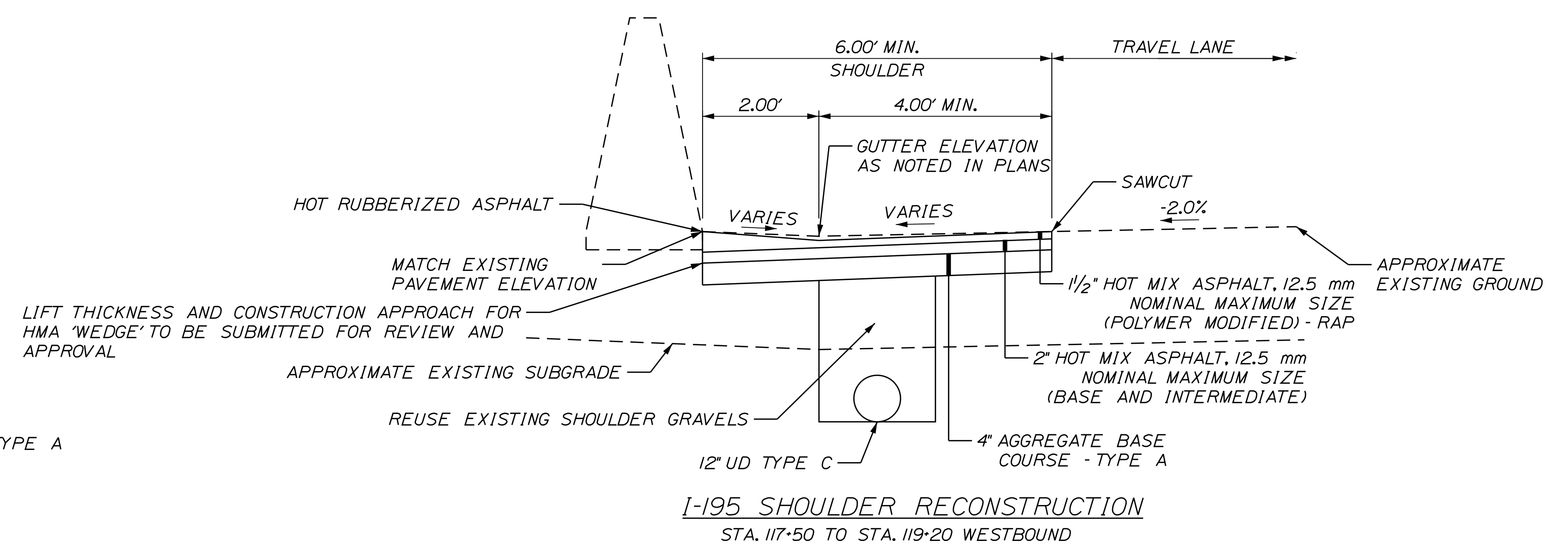


CUT LOCATIONS

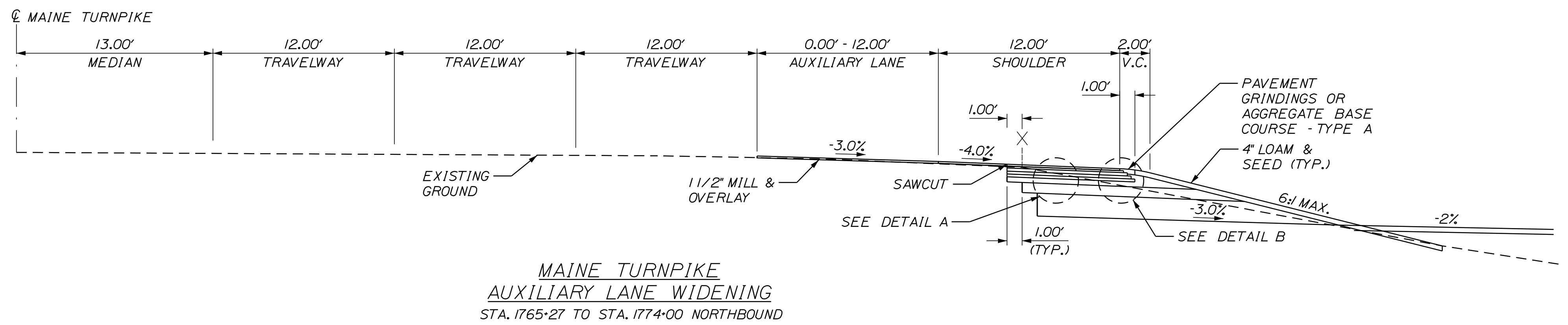


FILL LOCATIONS

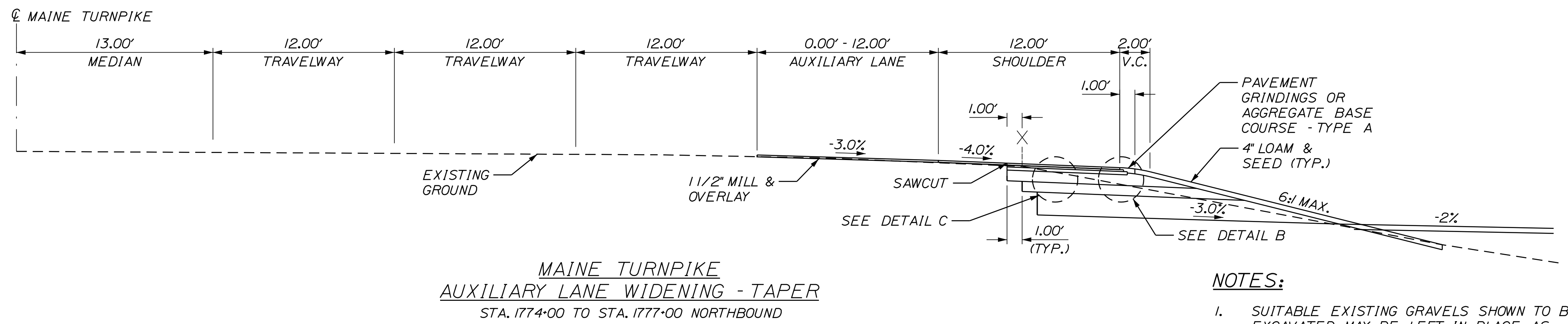
I-195 MEDIAN REGRADING  
STA. 108+75 TO STA. 111+16 WESTBOUND



I-195 SHOULDER RECONSTRUCTION  
STA. 117+50 TO STA. 119+20 WESTBOUND



MAINE TURNPIKE  
AUXILIARY LANE WIDENING  
STA. 1765+27 TO STA. 1774+00 NORTHBOUND



MAINE TURNPIKE  
AUXILIARY LANE WIDENING - TAPER  
STA. 1774+00 TO STA. 1777+00 NORTHBOUND

NOTES:  
1. SUITABLE EXISTING GRAVELS SHOWN TO BE EXCAVATED MAY BE LEFT IN PLACE AS DETERMINED BY THE RESIDENT.

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No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

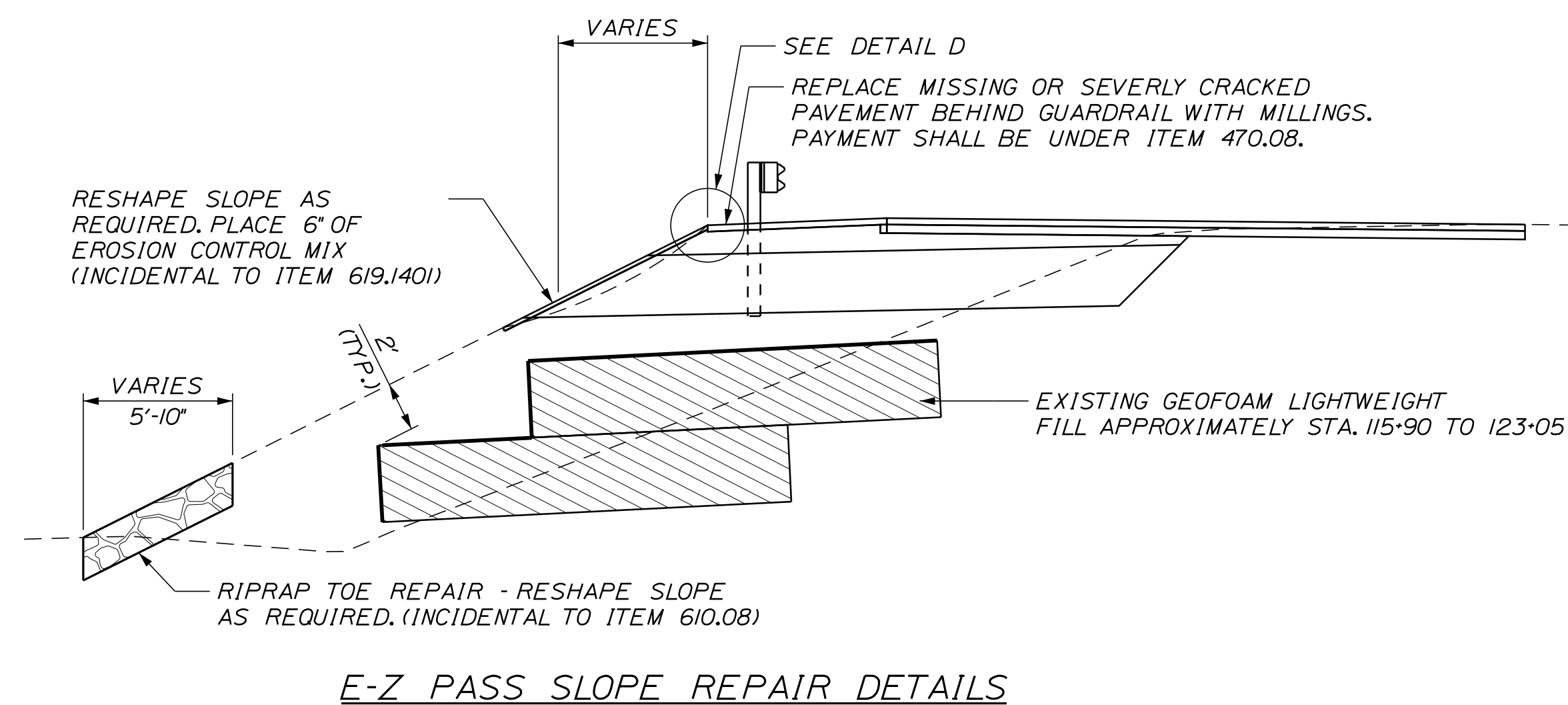
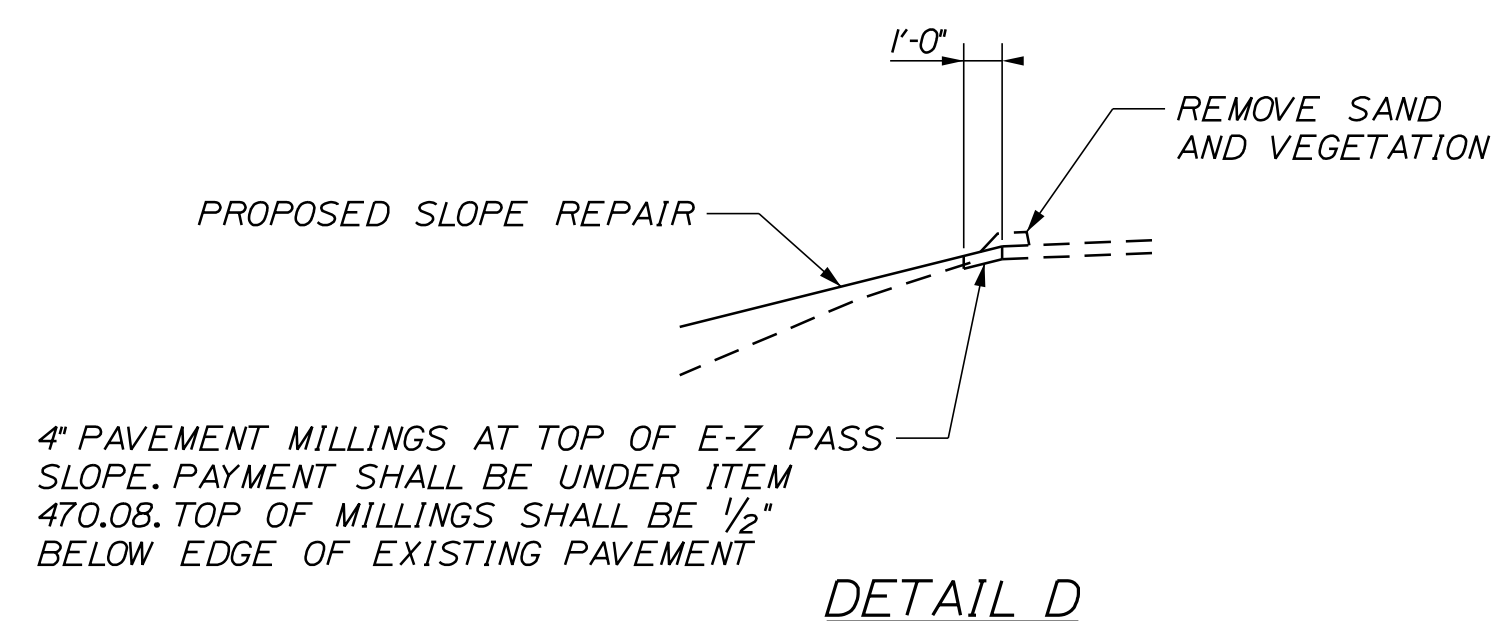
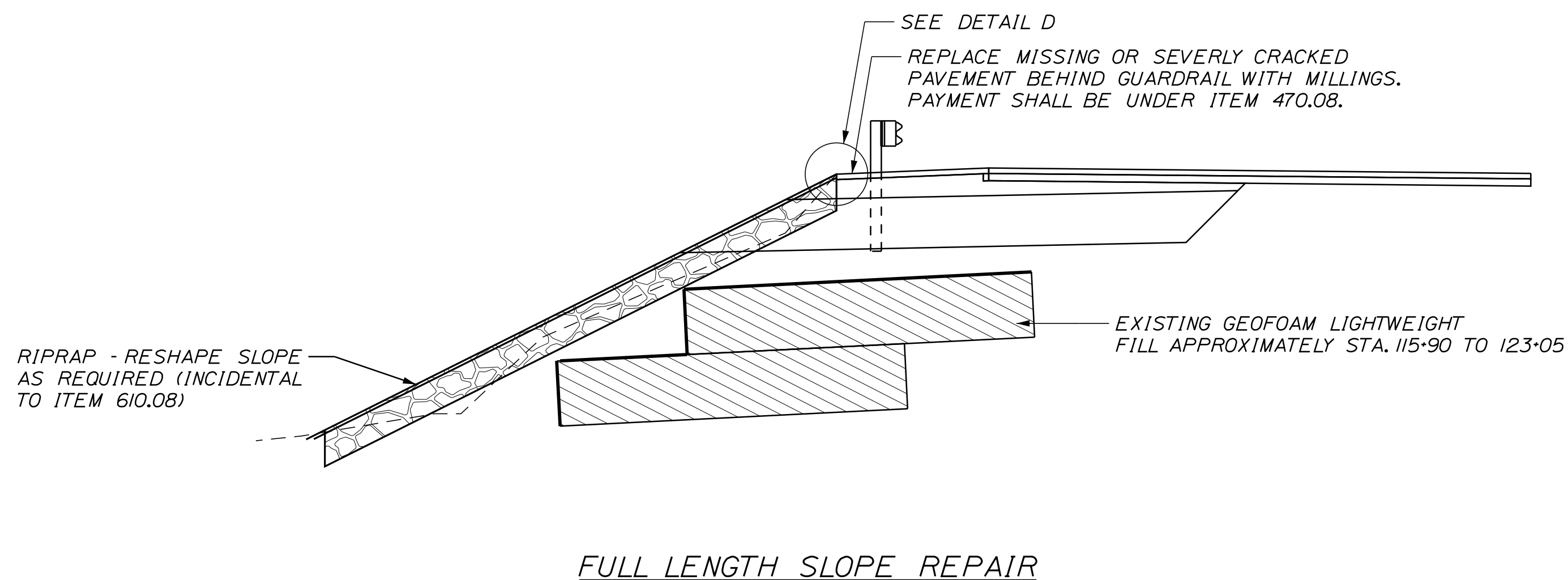
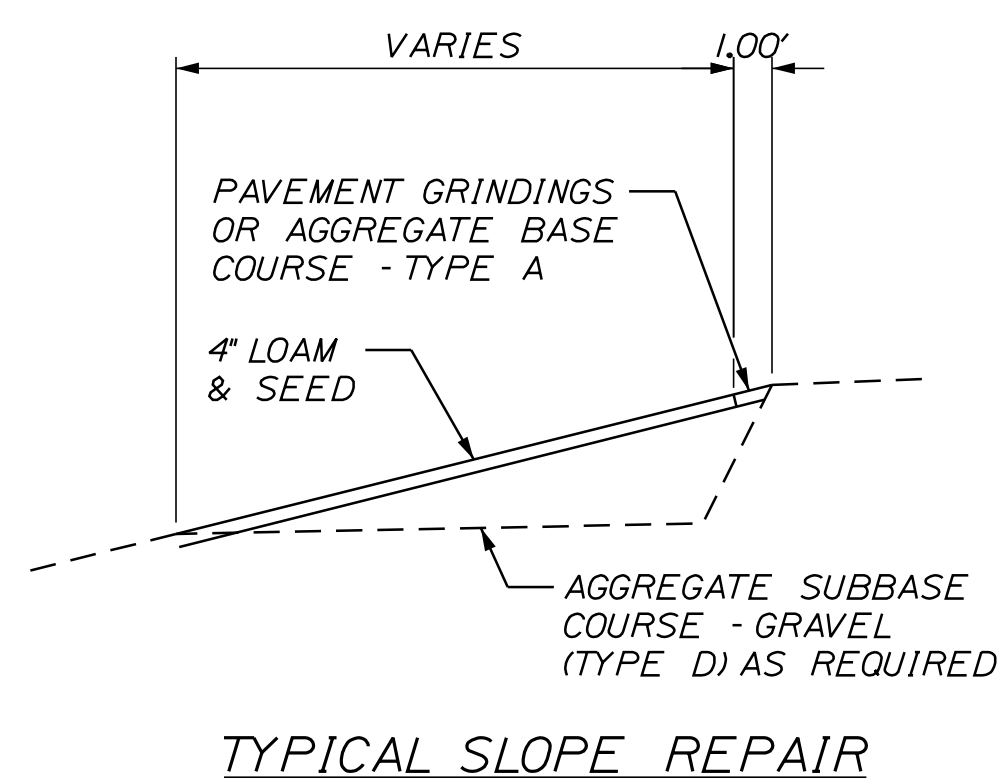
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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
TYPICAL SECTIONS 2  
NORTHBOUND ON RAMP

SHEET NUMBER: TS-02  
CONTRACT: 2022.02  
5 OF 56



**NOTES:**

- SLOPE REPAIRS SHOWN ARE REPRESENTATIVE. SEE PLANS FOR APPROXIMATE LOCATIONS TO BE VERIFIED BY THE RESIDENT.
- THE CONTRACTOR SHALL NOT DISTURB THE EXISTING GEOFOAM OR LINER. ANY DAMAGE TO THE GEOFOAM OR LINER SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE AUTHORITY.

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No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date	Checked	By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION  
 TYPICAL SECTIONS 3  
 NORTHBOUND ON RAMP

SHEET NUMBER: TS-03

CONTRACT:2022.02

6 OF 56



Date: 2/28/2022

GENERAL MAINTENANCE OF TRAFFIC NOTES:

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION 2014 STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL SPECIFICATIONS 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. NOTE THERE IS A 2009 EDITION OF MUTCD.
3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE 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 PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING PAVEMENT MARKINGS.
5. TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.78 - TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINES, YELLOW OR WHITE.
6. TEMPORARY PAINTED PAVEMENT MARKINGS SHALL NOT BE INSTALLED ON NEW PAVEMENT; TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.
7. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341 - WORK ZONE CRASH CUSHION - TL-3.
8. ALL TEMPORARY BARRIER SHALL BE SET WITH A MINIMUM 8:1 TAPER. THE 8:1 TAPER BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO THE MAINE TURNPIKE SHOULDERS OR LANES.
9. REMOVAL OF TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE SHALL BE DONE IN SUCH A MANNER TO REMOVE AS LITTLE PAVEMENT AS POSSIBLE.
10. TRUCK MOUNTED ATTENUATOR SHALL NOT BE LOCATED WITHIN THE BUFFER ZONE.
11. SHEETS MT-01 TO MT-12 APPLY TO EXITS 36 AND 25 ONLY.

MOT SIGN NOTES:

1. THESE PLANS SHOW THE GENERAL LAYOUT OF CONSTRUCTION ZONE SIGNING; ALL LOCATIONS REQUIRING SIGNS MAY NOT BE SHOWN. ADDITIONAL MOT NOT SHOWN ON THE PLANS AND LAYOUT OF SIGNS MUST BE SUBMITTED TO AND APPROVED BY THE RESIDENT.
2. ALL PROPOSED CONSTRUCTION SIGNS ON MAINLINE AND I-195 WILL BE PLACED ON BOTH SIDES OF THE ROAD UNLESS OTHERWISE SHOWN ON THE PLANS.
3. 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.
4. ALL TEMPORARY LANE CLOSURE SIGNS ARE TO BE MOUNTED ON EASELS.
5. 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.
6. ALL MOT SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE RESIDENT.
7. EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WORK ZONE SIGNS SHALL BE COVERED.
8. SPEED LIMIT, STOP, EXIT AND YIELD SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT TO THE BOTTOM OF SIGN.
9. TWO COMPLETE LANE CLOSURE EASEL MOUNTED SIGN PACKAGES (LEFT OR RIGHT LANE - TURNPIKE), INCLUDING WORK ZONE SPEED SIGNS, HAVE BEEN INCLUDED IN THE CONTRACT TO PERMIT SETUP AND REMOVAL OF THE PERMANENT WORK ZONE MAINTENANCE OF TRAFFIC CONTROL DEVICES.

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)
2. 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.
3. 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

Filename: ...MSTA\_MOT\_Gen\_Notes.dgn

Scale:			
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No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.					
	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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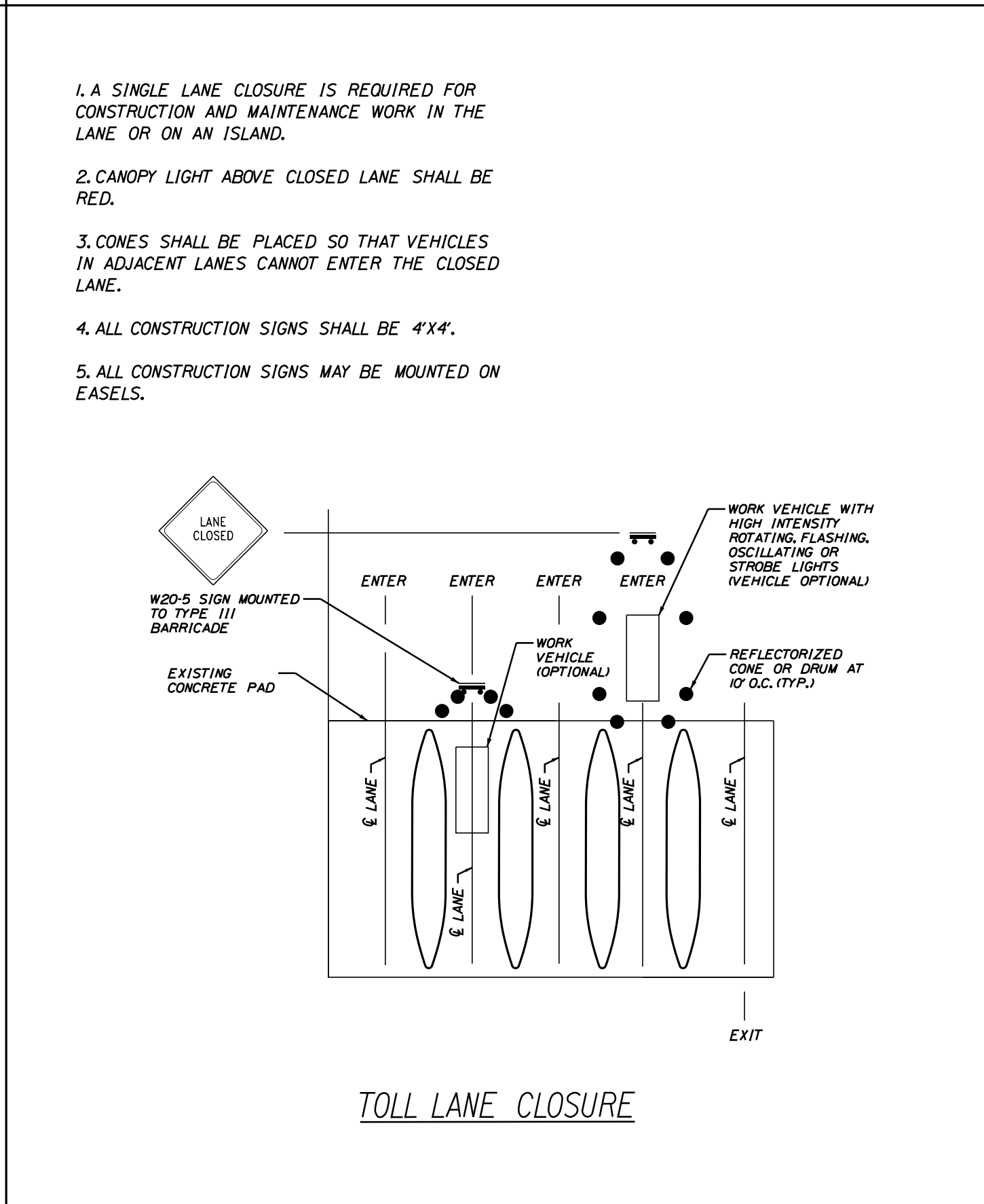
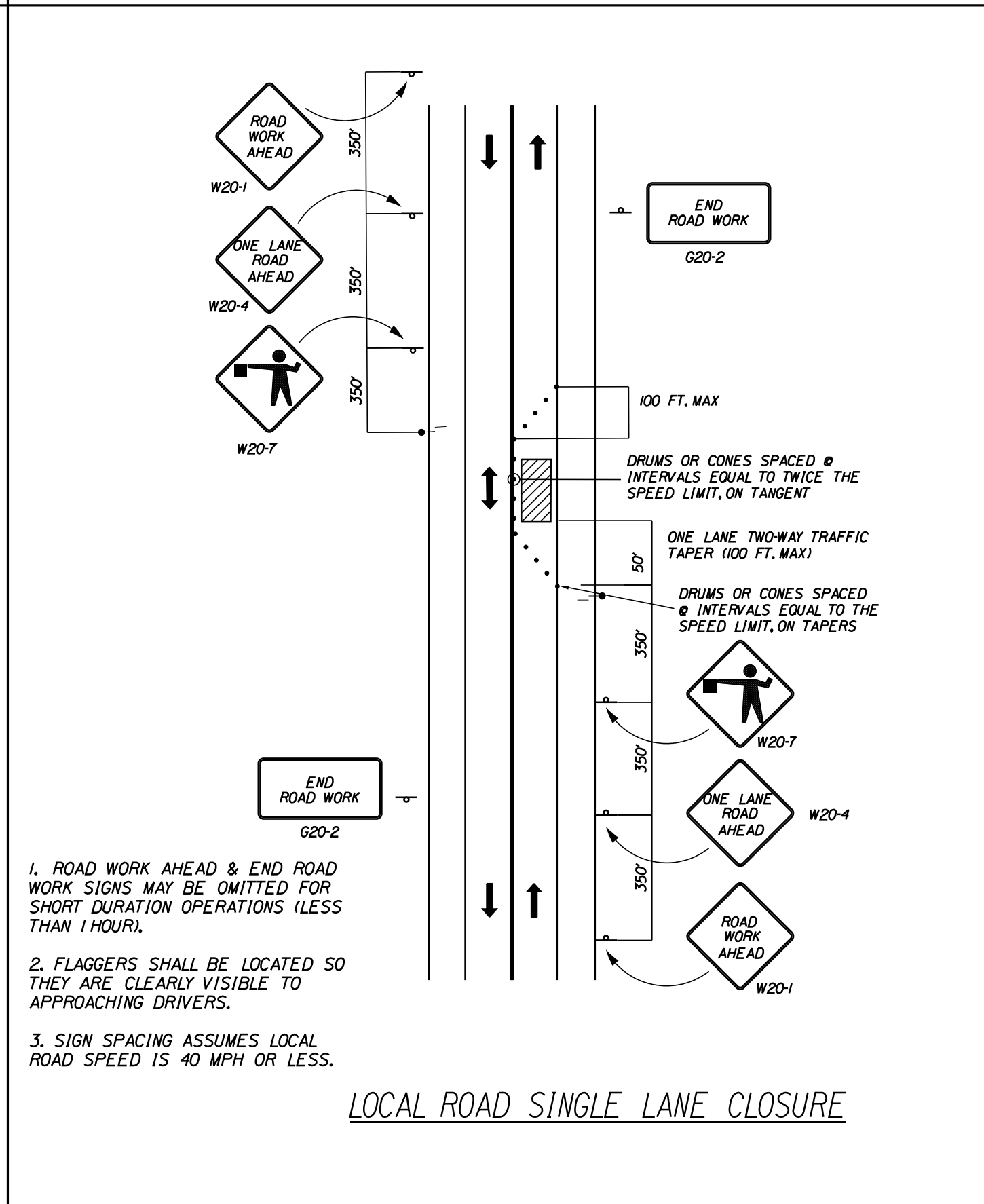
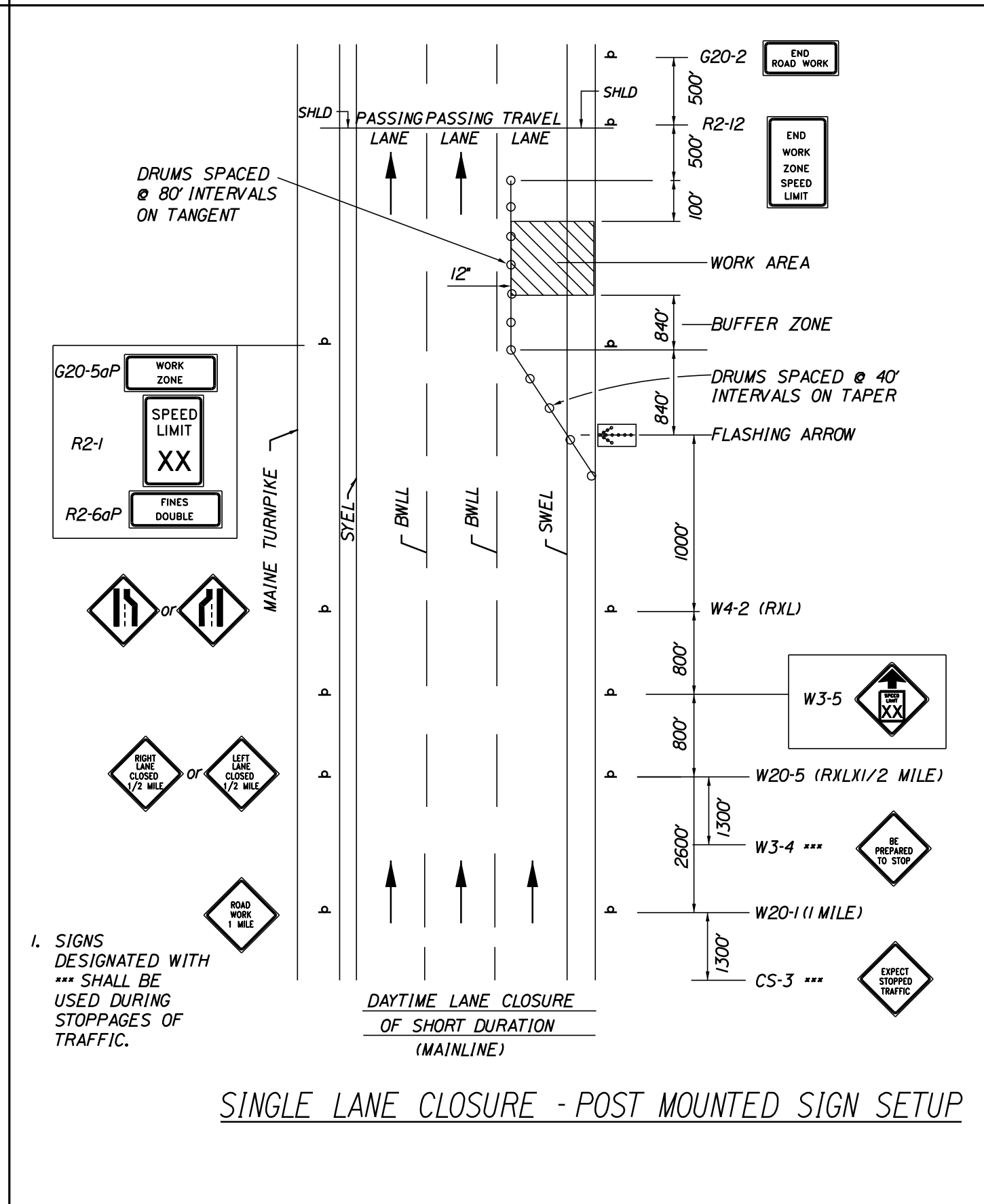
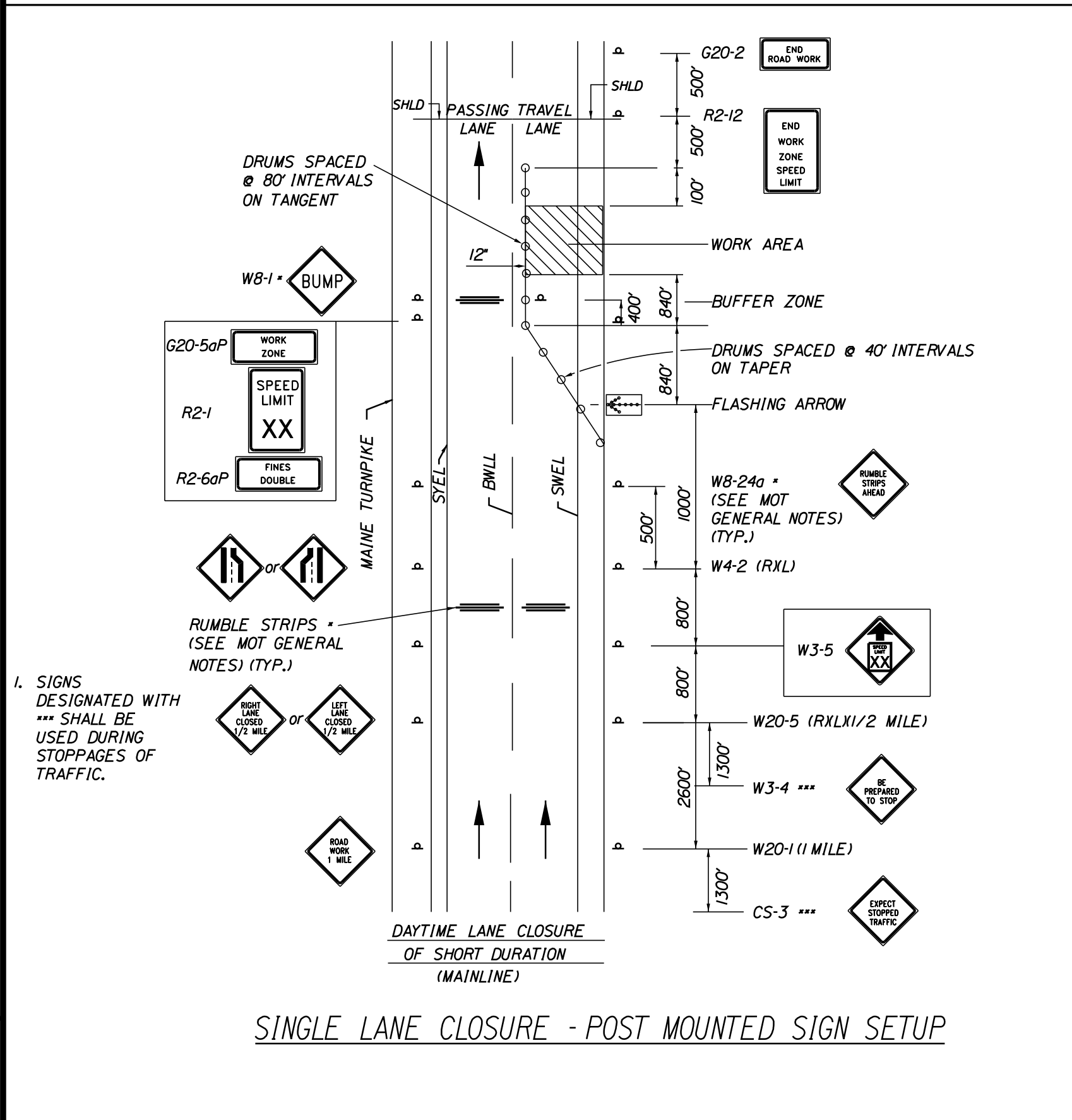
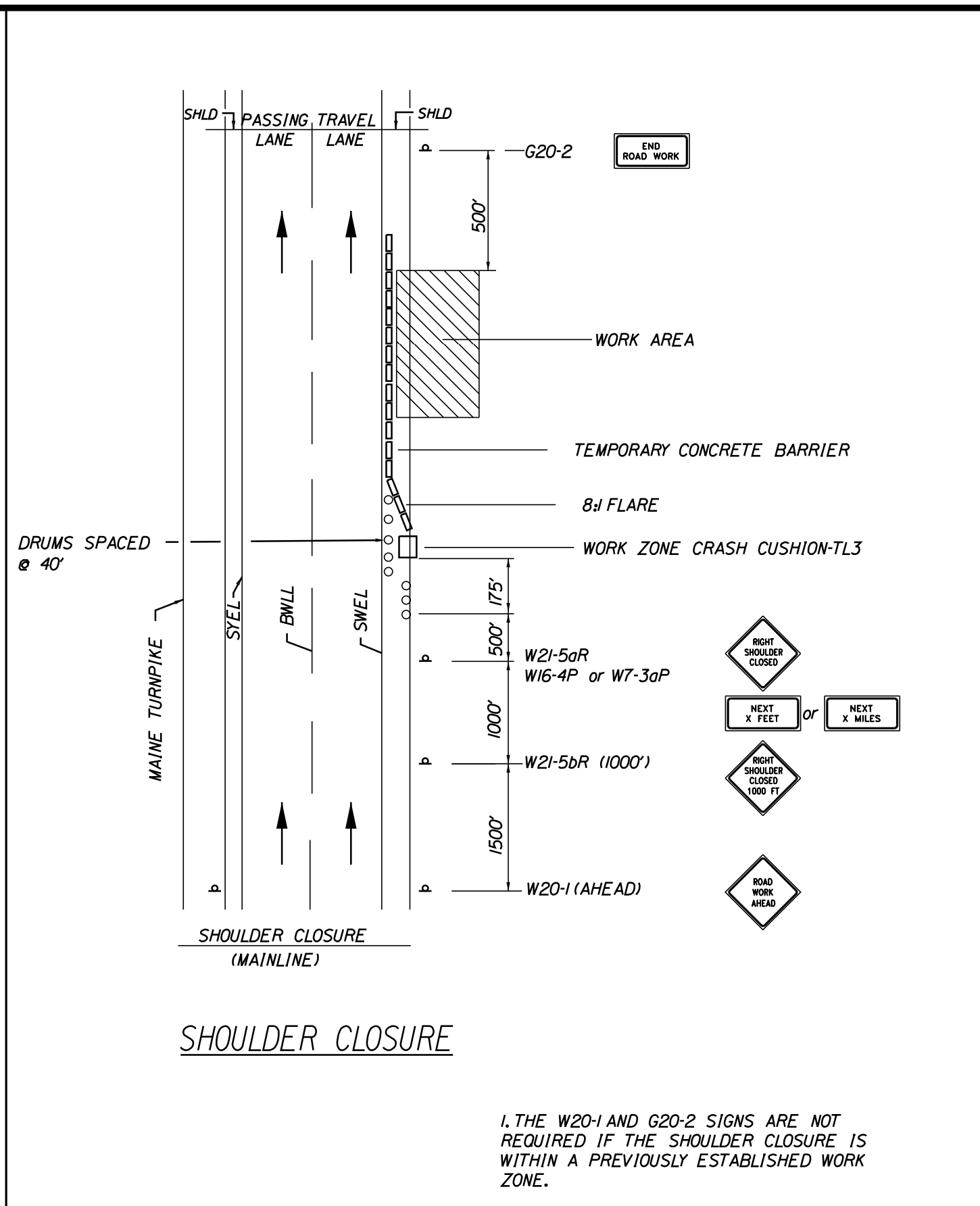
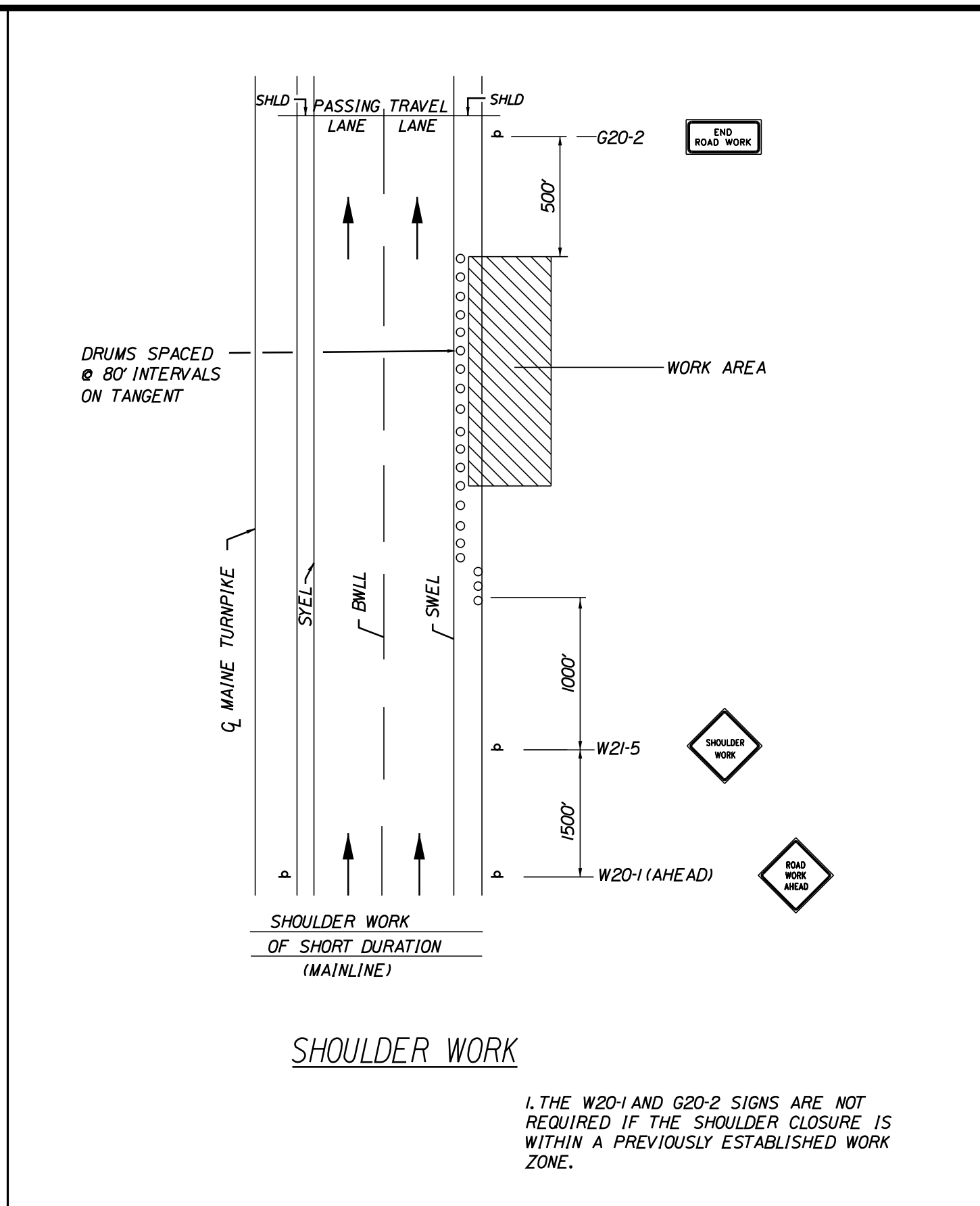
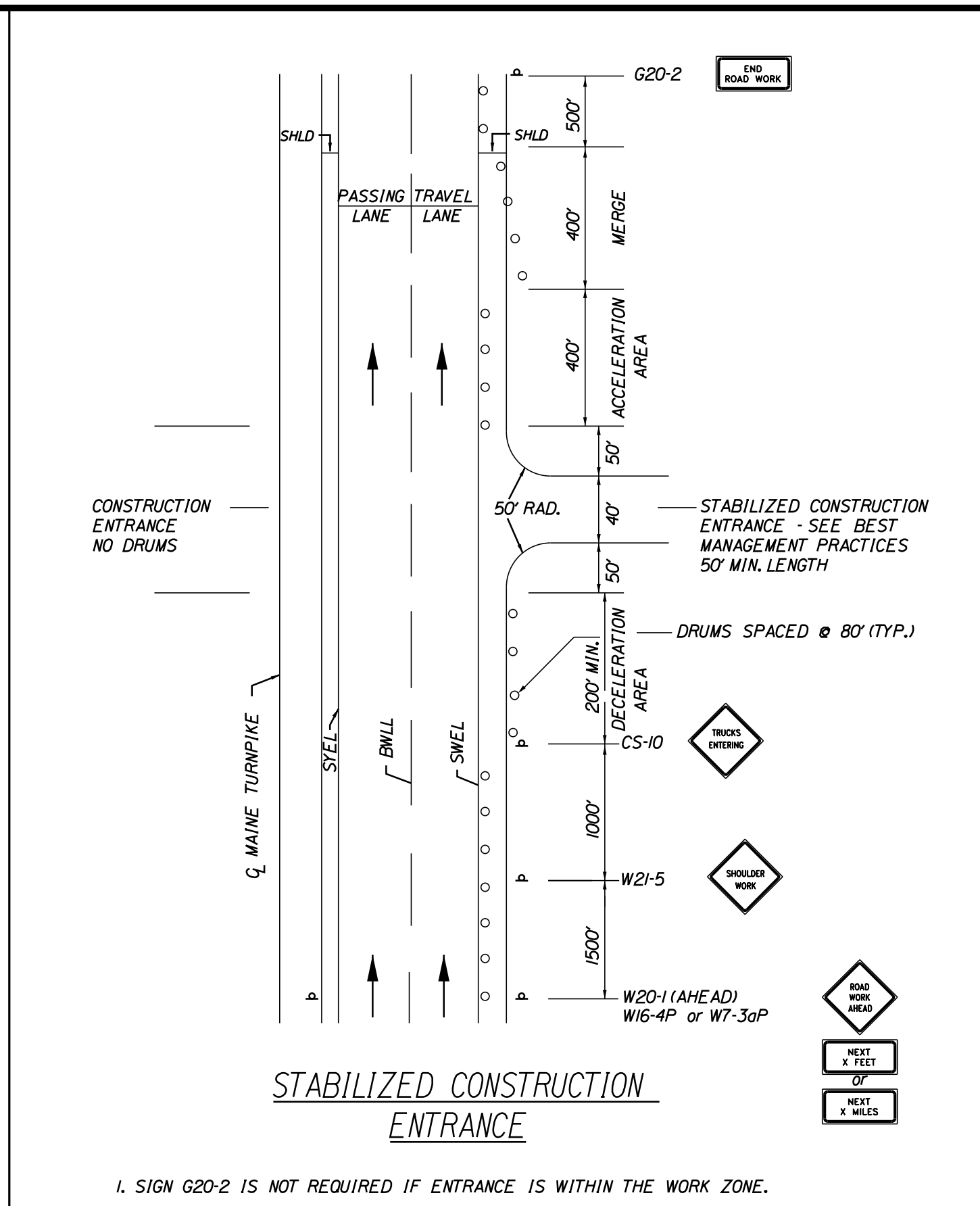
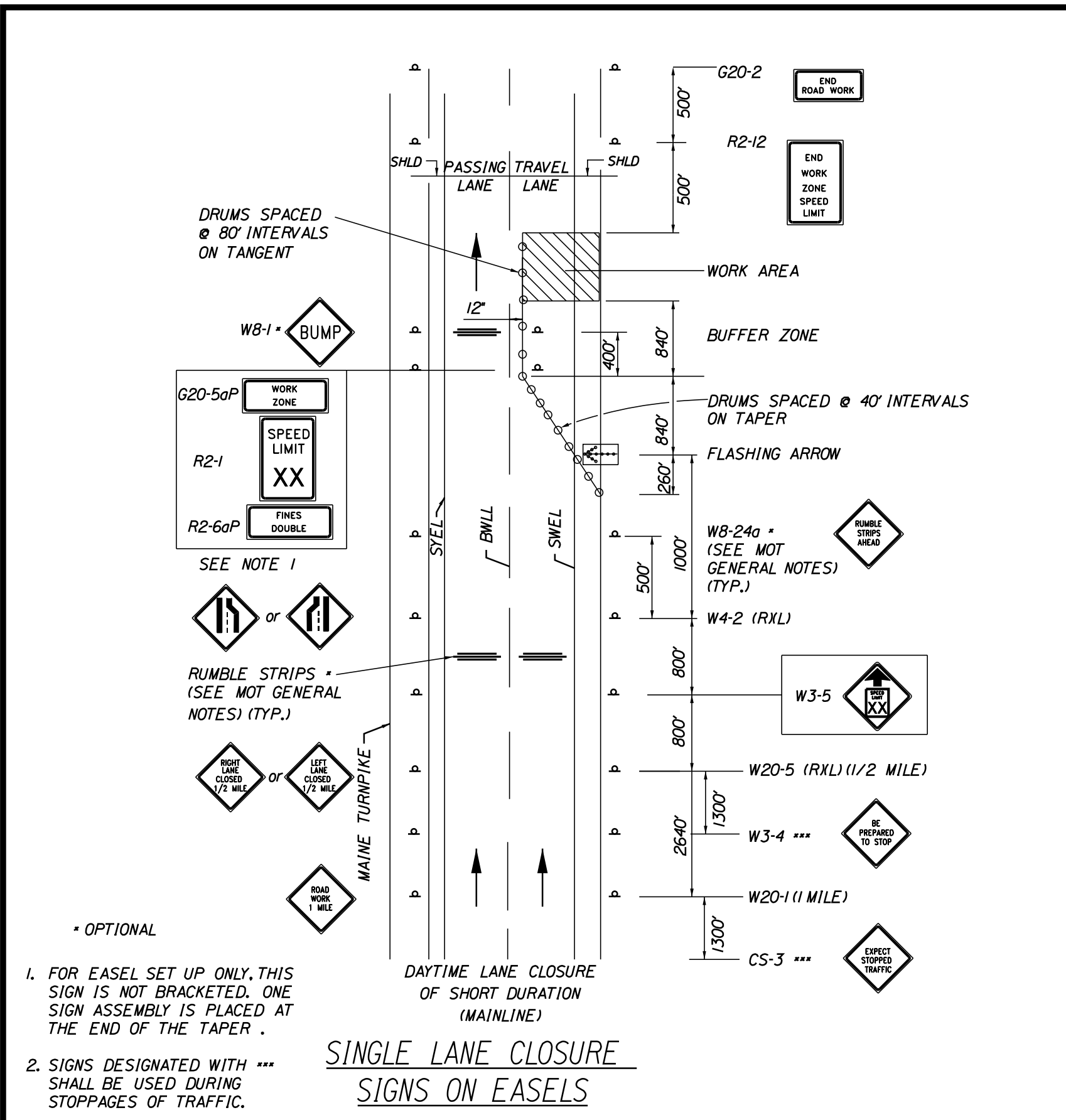
## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 MAINTENANCE OF TRAFFIC  
 GENERAL NOTES

SHEET NUMBER: MT-01  
 CONTRACT: 2022.02  
 7 OF 56

Date: 2/28/2022



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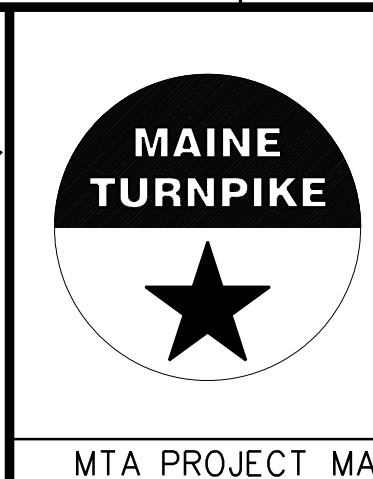
Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**THE GOLD STAR MEMORIAL HIGHWAY**

EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION MAINTENANCE OF TRAFFIC DETAILS (1 OF 5)

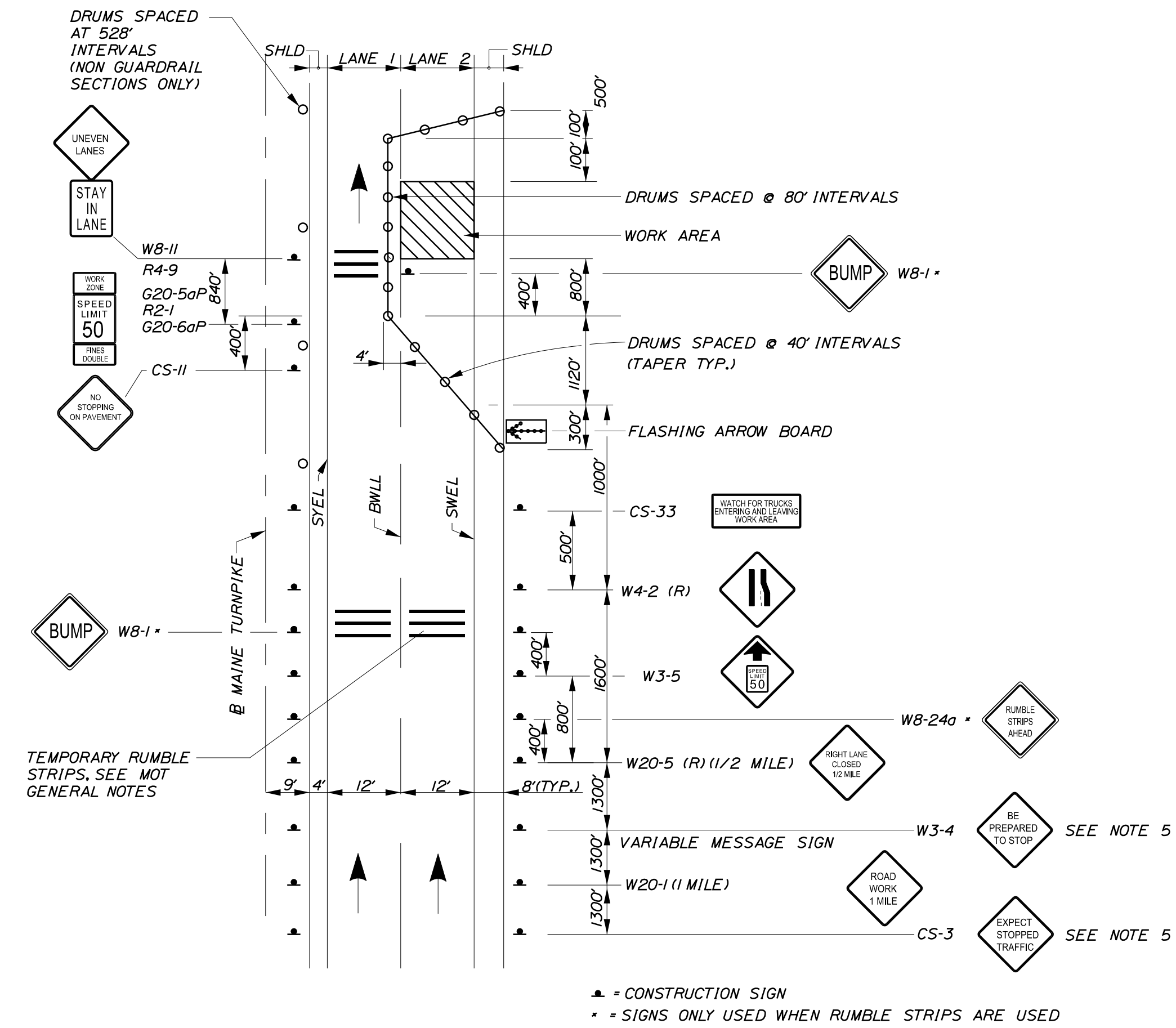
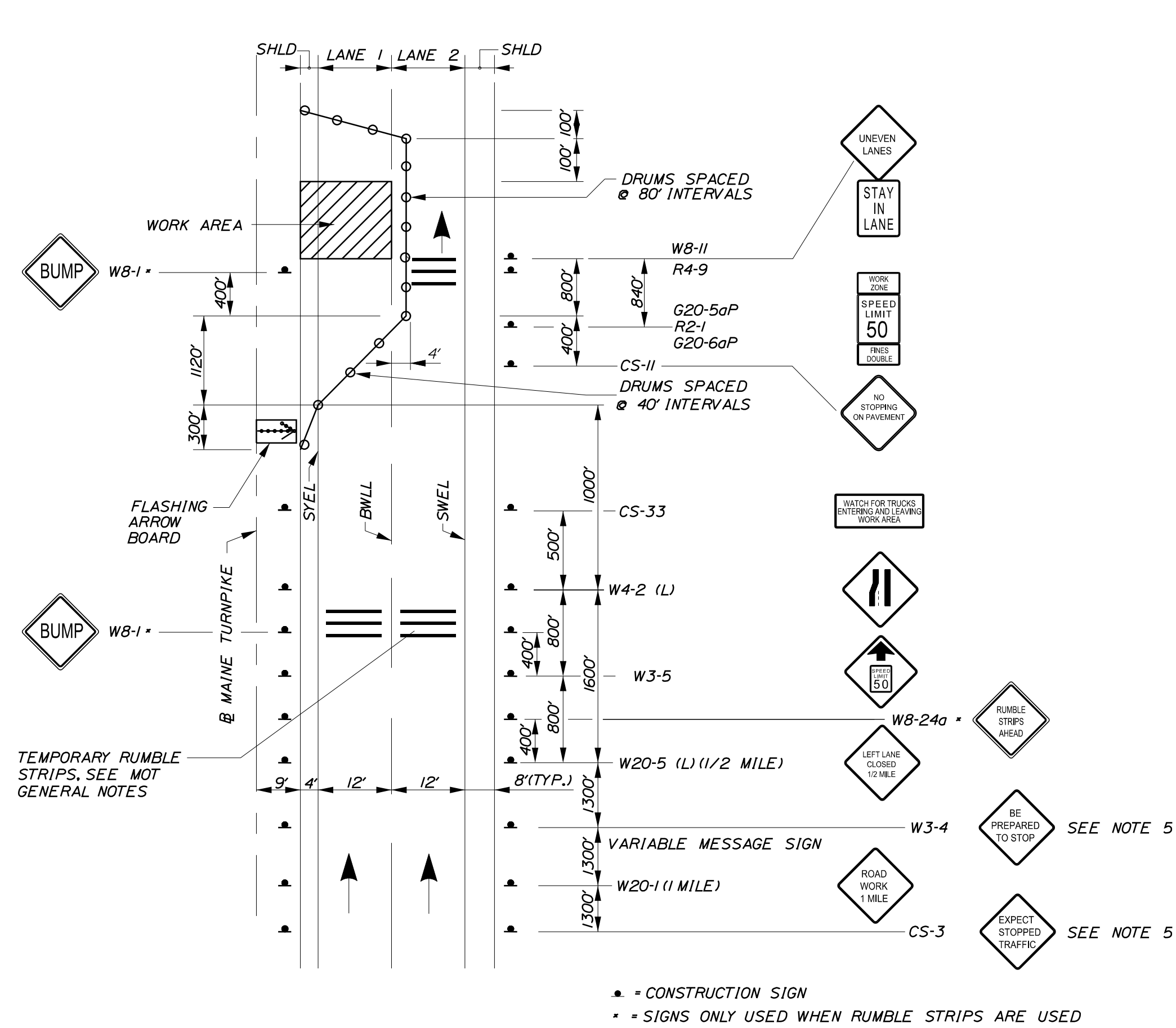
SHEET NUMBER: MT-02

CONTRACT: 2022.02

8 OF 56



Date: 2/28/2022



NOTES:

- FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
- ALL TEMPORARY LANE CLOSURE SIGNS ARE TO BE MOUNTED ON EASELS.
- STANDARD SINGLE LANE CLOSURES FOR LANES 1 AND 2 SHALL BE USED FOR DRAINAGE WORK, GUARDRAIL WORK, MEDIAN WORK, EQUIPMENT MOVES, BERM DROP OFF CORRECTION WORK, PAINTING OF SOLID WHITE LANE LINES, AND ALL OTHER WORK NOT REQUIRING ENCROACHMENT INTO THE ADJACENT LANE.
- SEE SHEET M-3 FOR STANDARD SINGLE LANE CLOSURE DETAILS.
- ERECT CS-3 AND W3-4 SIGNS IMMEDIATELY PRIOR TO SCHEDULED STOPPAGES FOR EQUIPMENT MOVES AND REMOVE THE CS-1 AND W3-4 SIGNS IMMEDIATELY AFTER THE SCHEDULED STOPPAGES ARE COMPLETE.

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No.	Revision	By	Date

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	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
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MAINE TURNPIKE

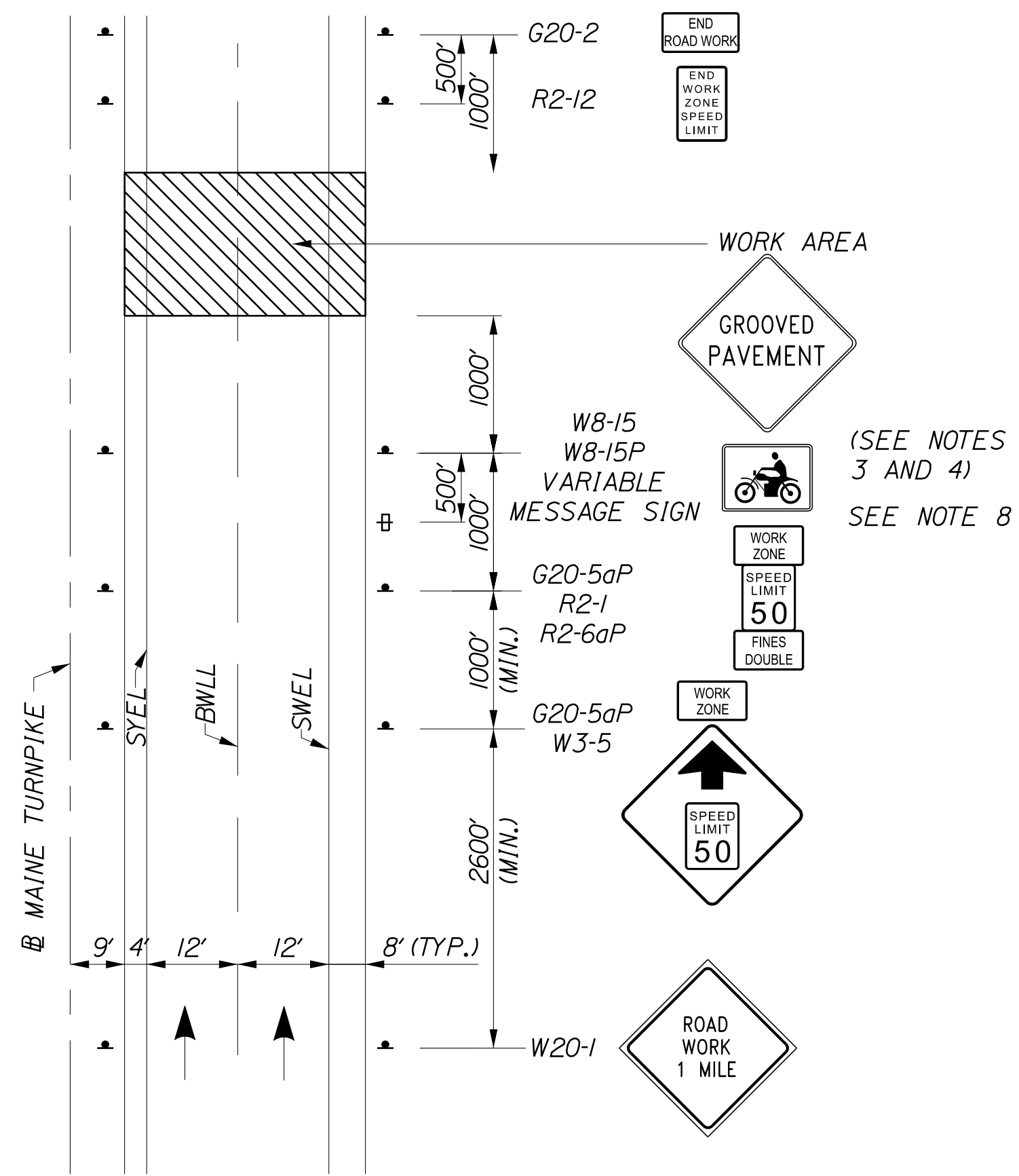
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

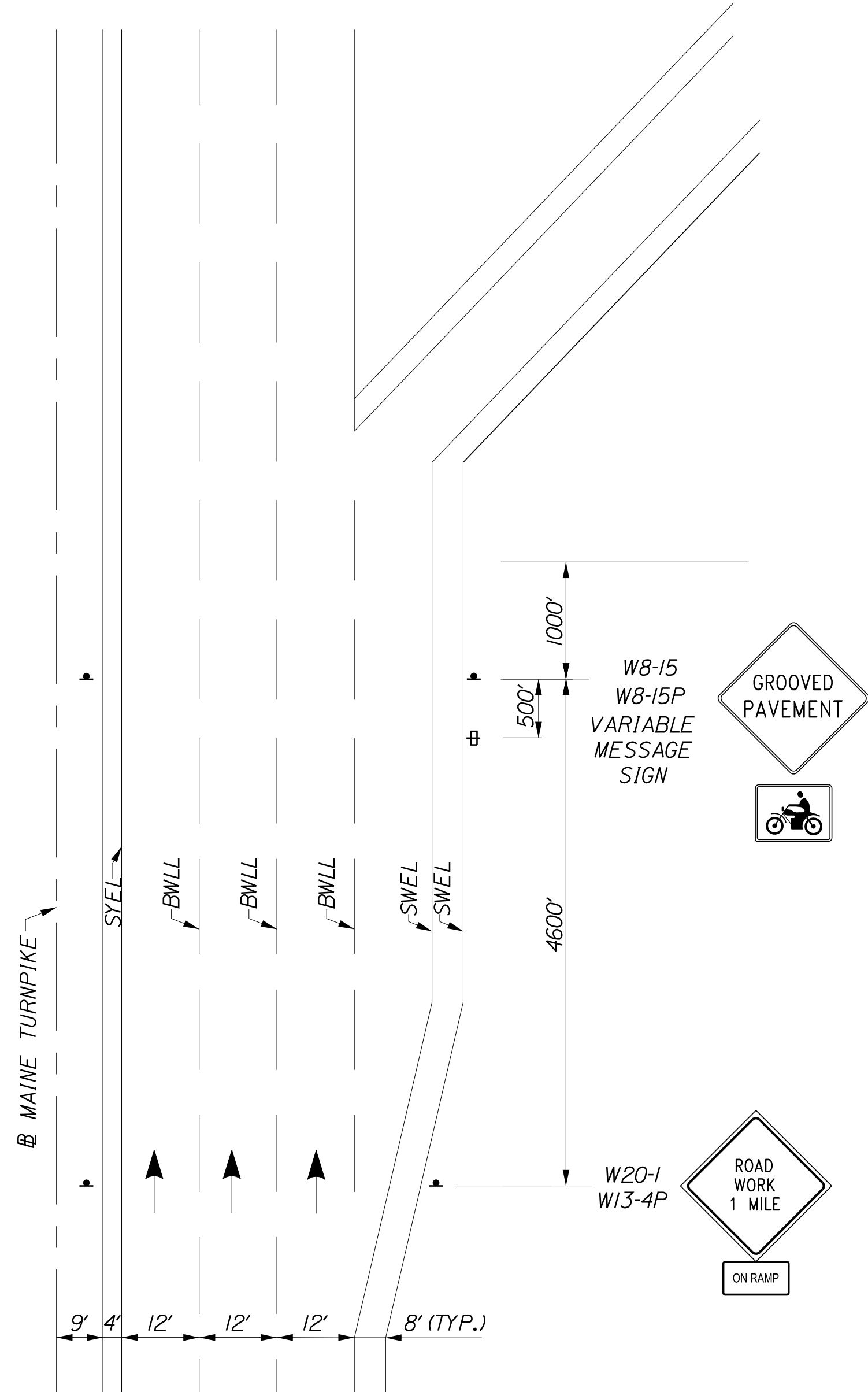
EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION MAINTENANCE OF TRAFFIC DETAILS (2 OF 5)

SHEET NUMBER: MT-03  
CONTRACT: 2022.02  
9 OF 56

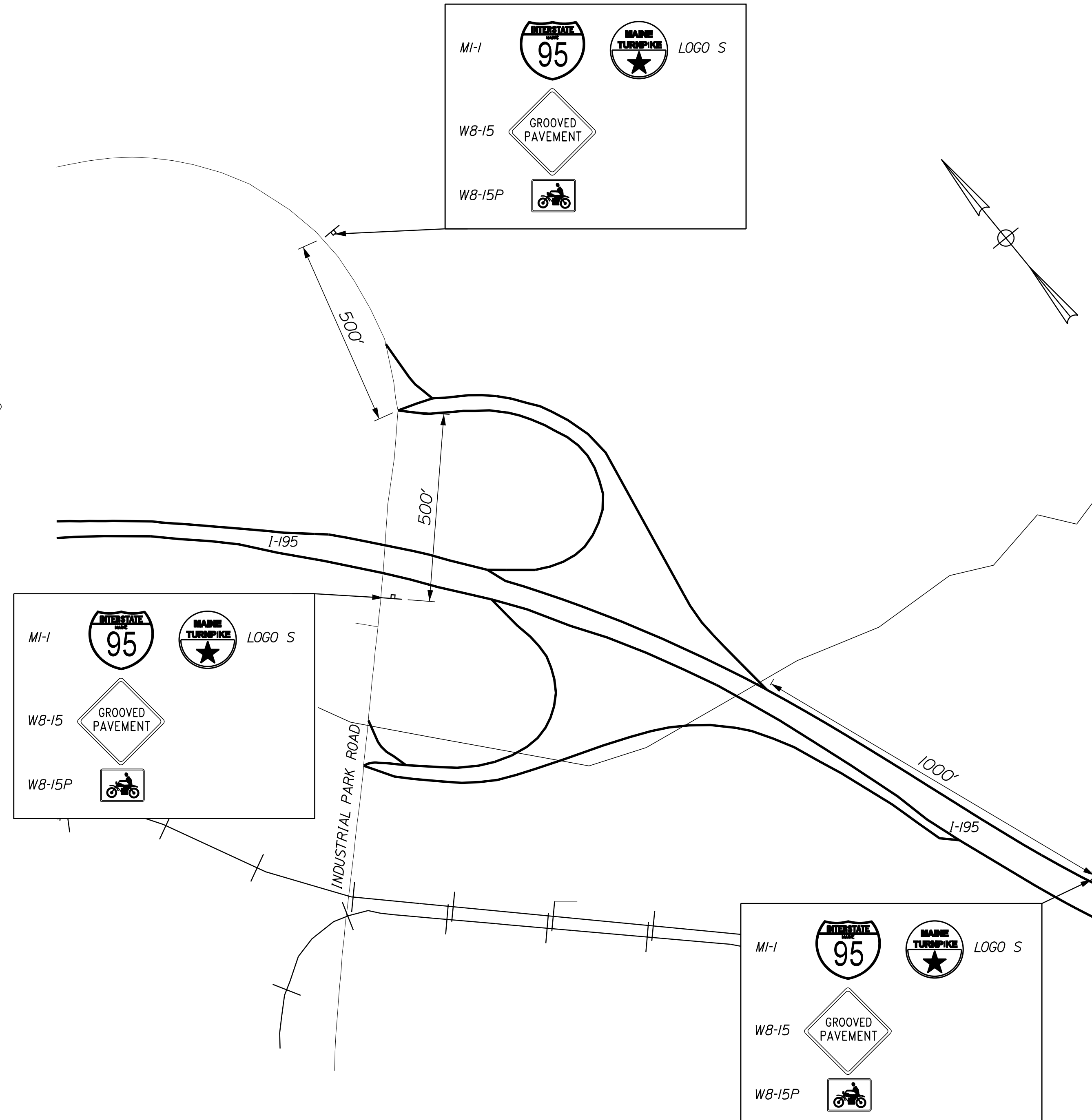
Date: 2/28/2022



I-195  
ADVANCED PROJECT SIGNING



OFF RAMP  
ADVANCED PROJECT SIGNING



INDUSTRIAL PARK ROAD  
ADVANCED PROJECT SIGNING

**NOTES:**

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. UNCOVER W8-15 & W8-15P SIGNS WHEN PAVEMENT IS MILLED OR AS DIRECTED BY THE RESIDENT.
3. PROVIDE W8-15 AND W8-15P AT ALL MILLED LOCATIONS.
4. DUE TO SEQUENCING OF WORK AREAS, APPROACH SIGNING MAY NEED TO BE ADJUSTED AS WORK PROGRESSES.
5. TRAFFIC CONTROL SIGNS NOT IN USE SHALL BE COVERED AS DIRECTED BY THE RESIDENT.

Filename: ...MSTA\_MOT\_Details\_03.dgn

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No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
MAINTENANCE OF TRAFFIC  
DETAILS (3 OF 5)

SHEET NUMBER: MT-04  
10 OF 56

CONTRACT: 2022.02

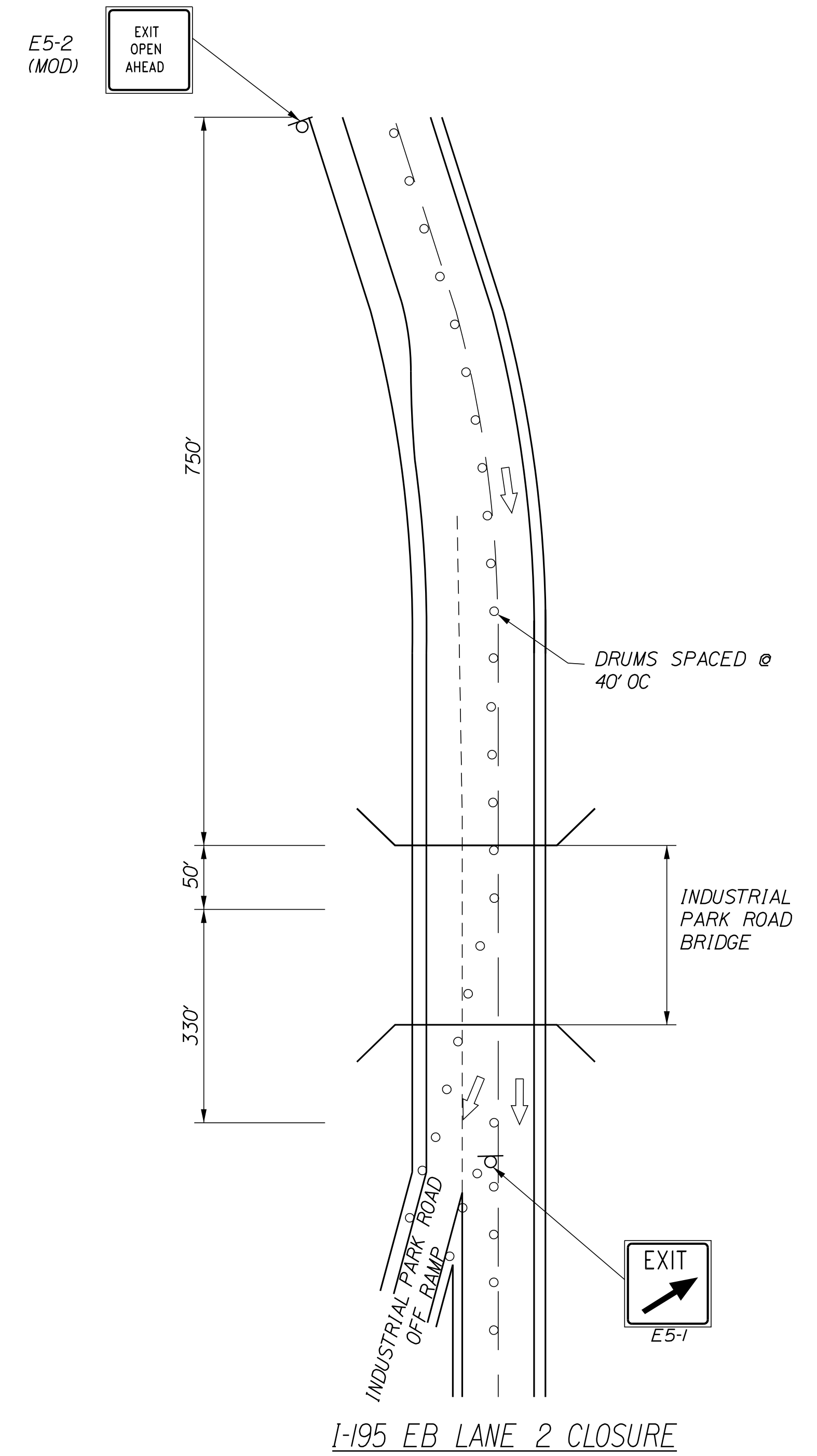
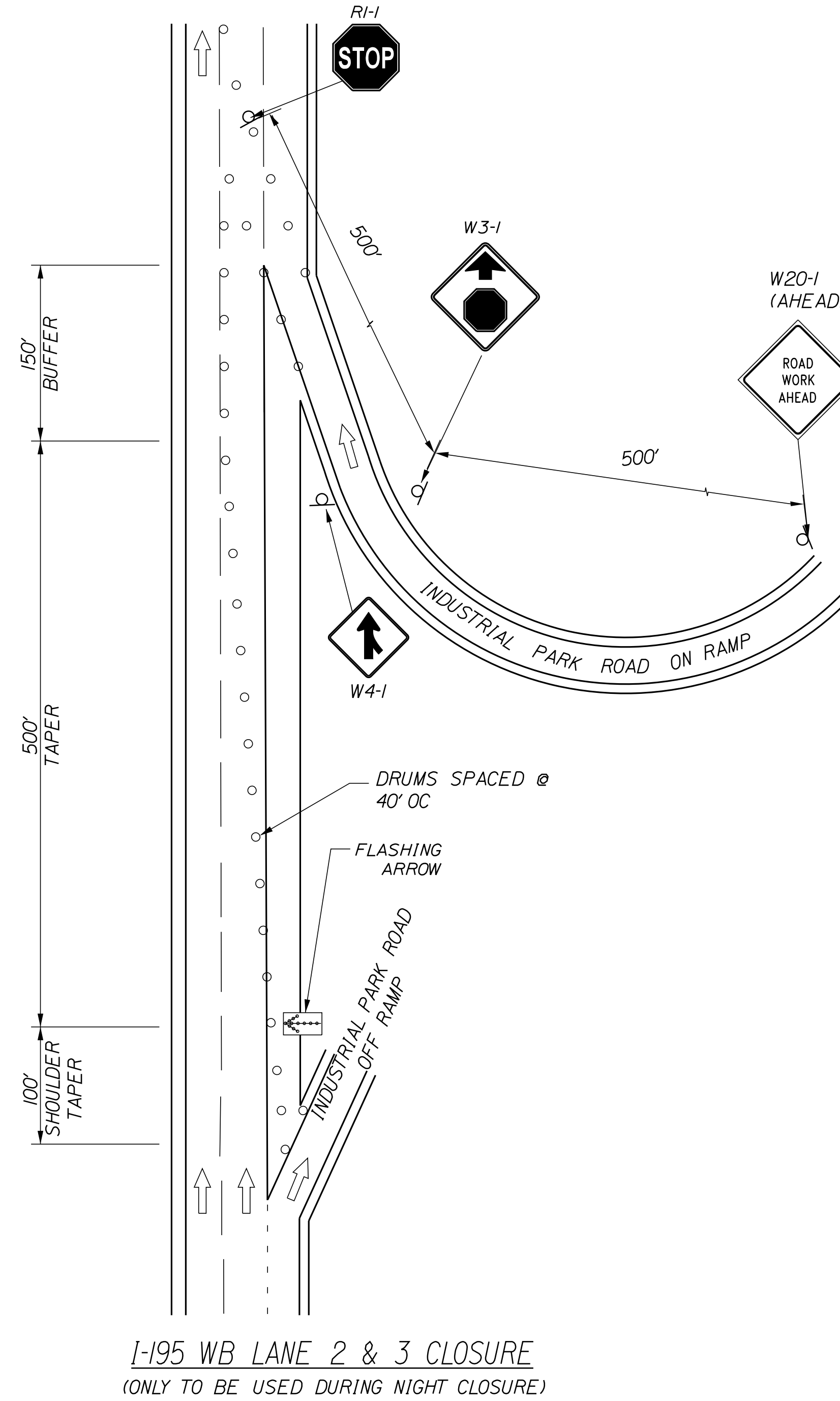
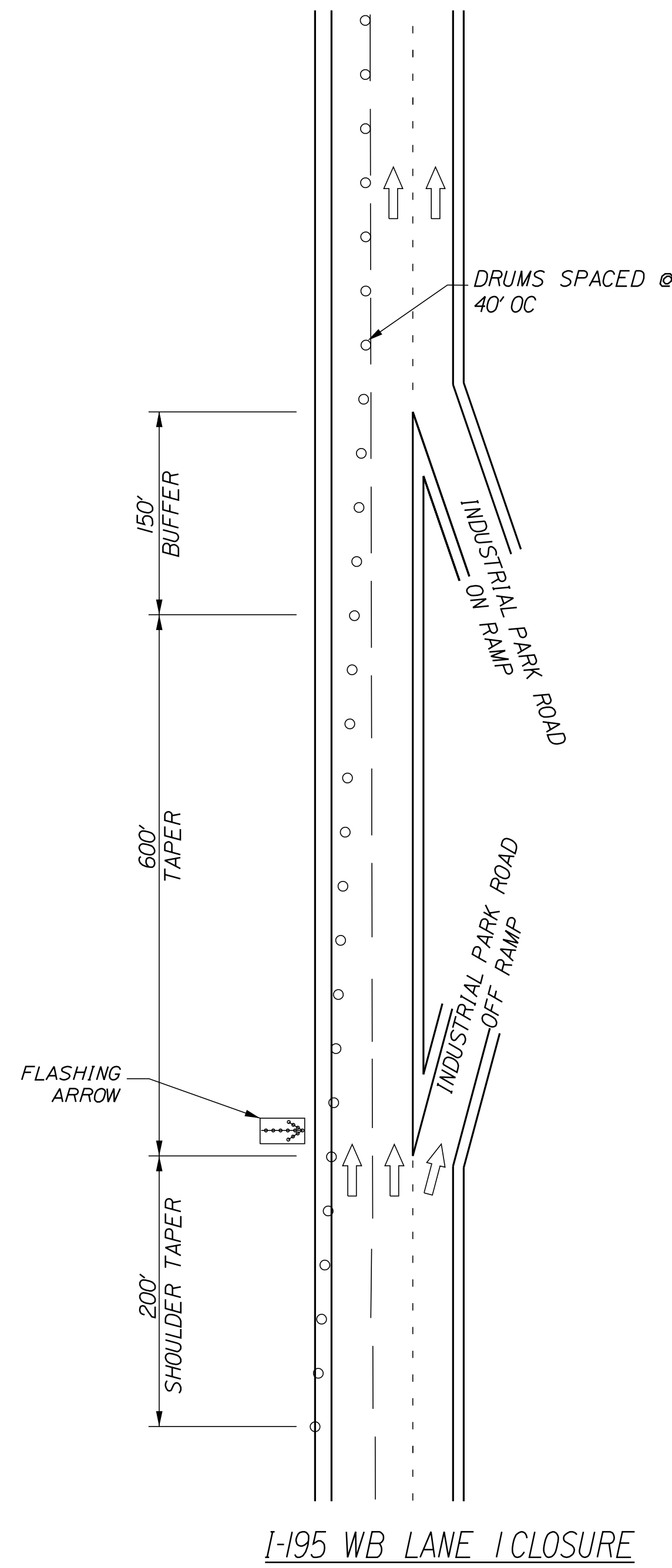


Date: 2/28/2022

Filename: ...MSTA\_MOT\_Details\_04.dgn

**NOTES:**

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. FOR SIGNING, SEE SINGLE LANE CLOSURE DETAILS.

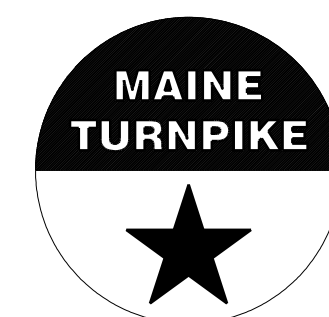


Scale: NOT TO SCALE

Designed by:



STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

**EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
MAINTENANCE OF TRAFFIC  
DETAILS (4 OF 5)**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.					
	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2022.02

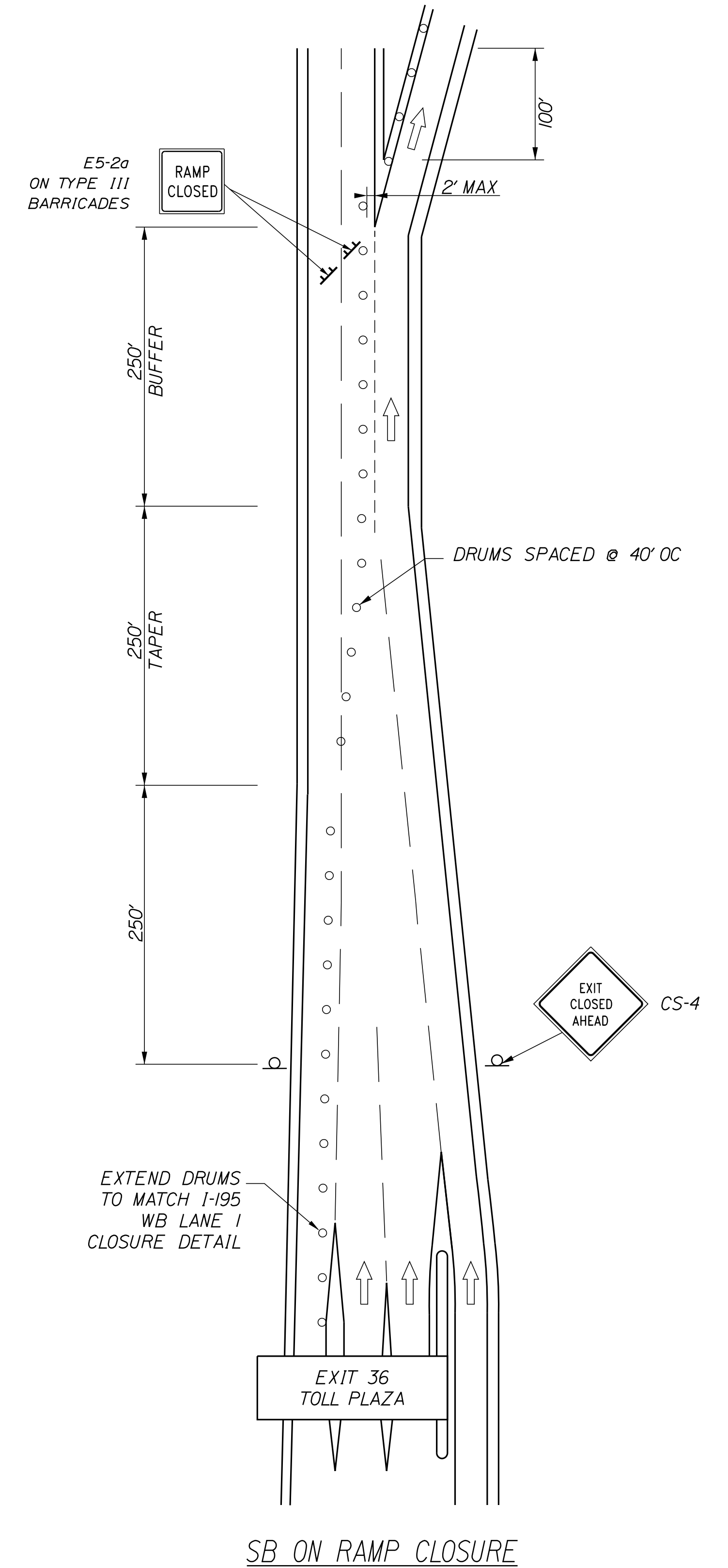
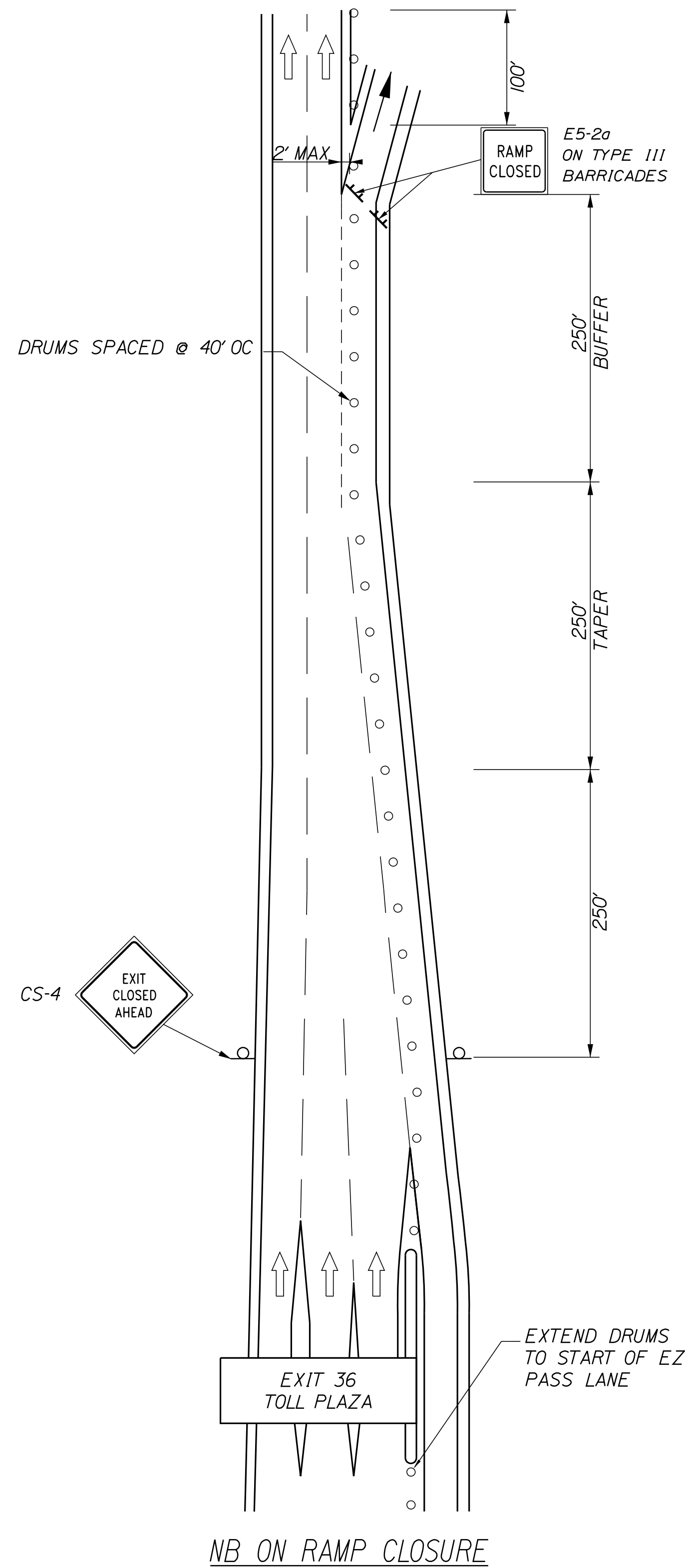
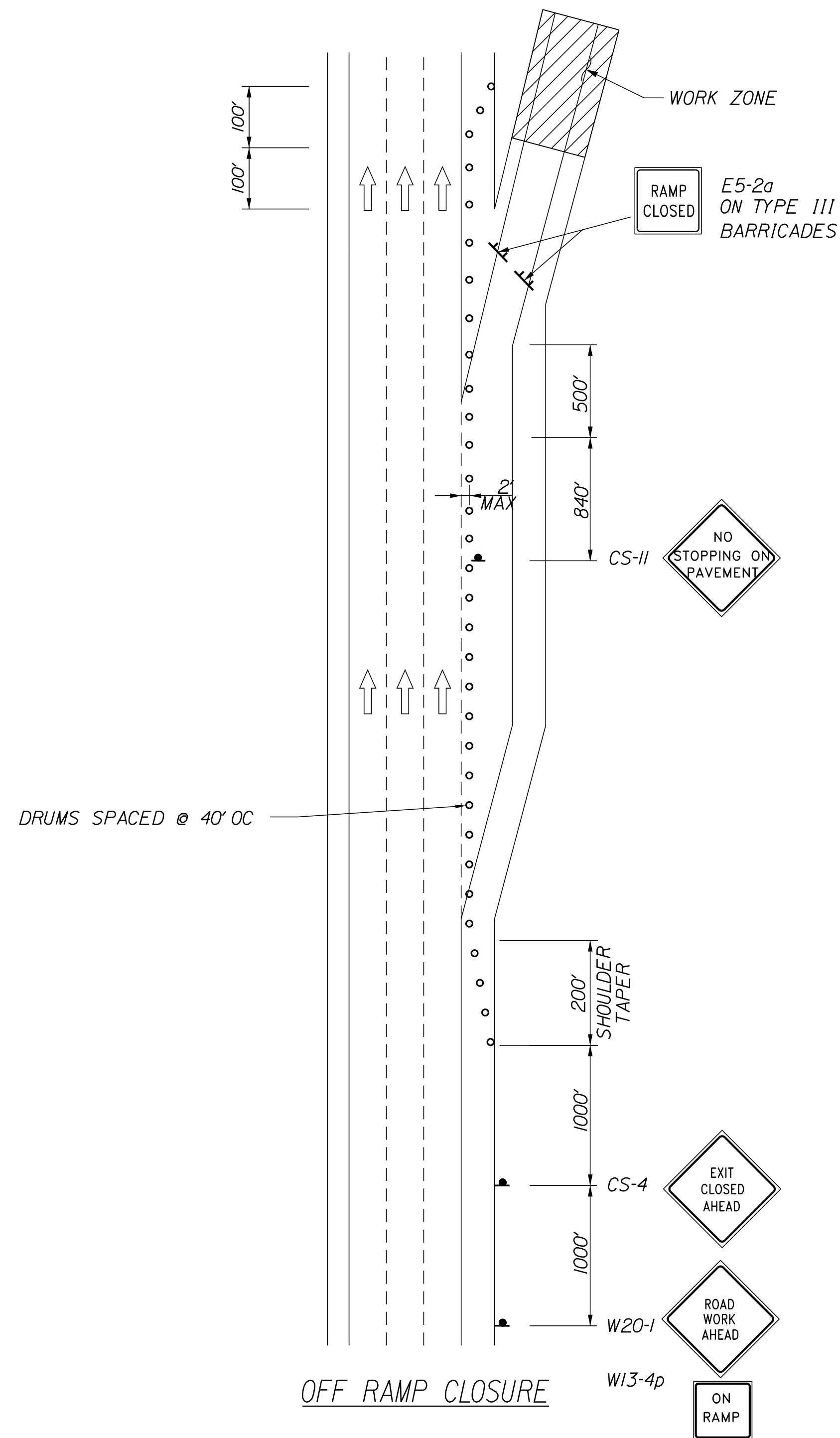
SHEET NUMBER: MT-05

11 OF 56

**NOTES:**

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. ALL SIGNS TO BE MOUNTED ON EASELS UNLESS OTHERWISE NOTED.
3. RAMP CLOSURES ALSO REQUIRE THE USE OF THE RAMP CLOSURE PLAN SHEET MT-XX.
4. SB ON RAMP CLOSURE SHALL ALSO INCLUDE I-195 WB LANE 1 CLOSURE DETAIL.

Date: 2/28/2022



Filename: ...MSTA\_MOT\_Details\_05.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
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 TEL (207) 887-3448  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

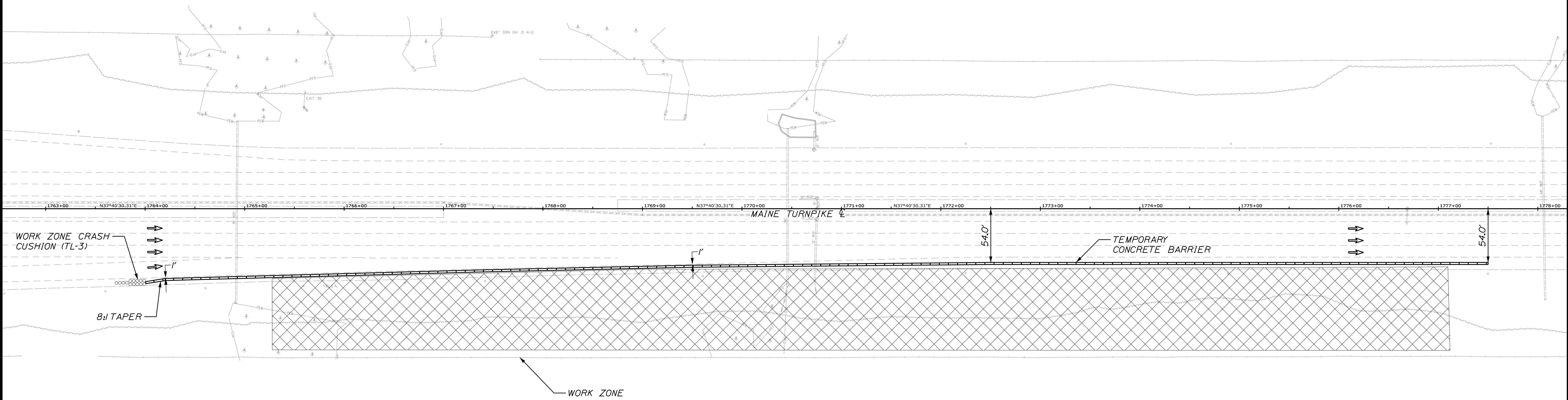
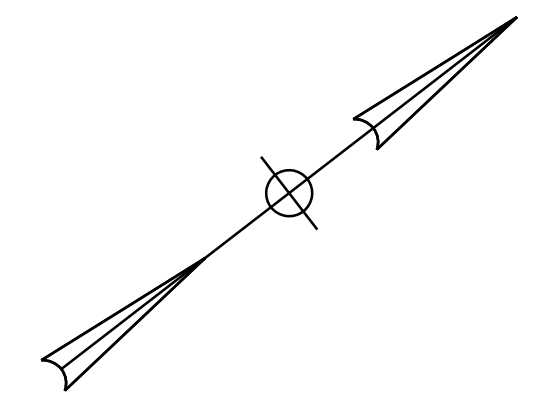
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

**EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION MAINTENANCE OF TRAFFIC DETAILS (5 OF 5)**

SHEET NUMBER: MT-06  
 12 OF 56

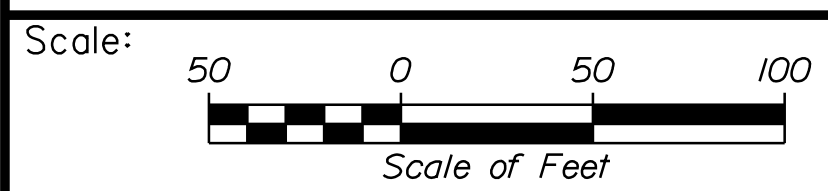
CONTRACT: 2022.02

Date: 2/28/2022



**NOTES:**

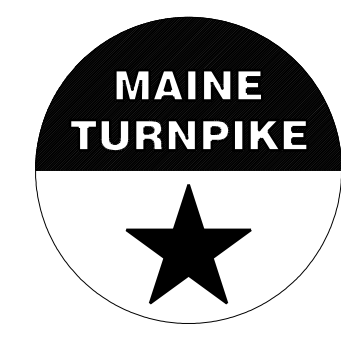
- I. FOR SIGNING AND DRUM LAYOUT SEE SHOULDER CLOSURE DETAILS.



Designed by:



STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
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 FAX (207) 883-3376



**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 MAINTANENCE OF TRAFFIC  
 EXIT 36 NORTHBOUND ACCELERATION LANE**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.			
	By	Date	
Designed	THG	10\21	Checked
			JRH
			10\21
Drawn	CHL	10\21	In Charge of
			JRH
			10\21

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2022.02

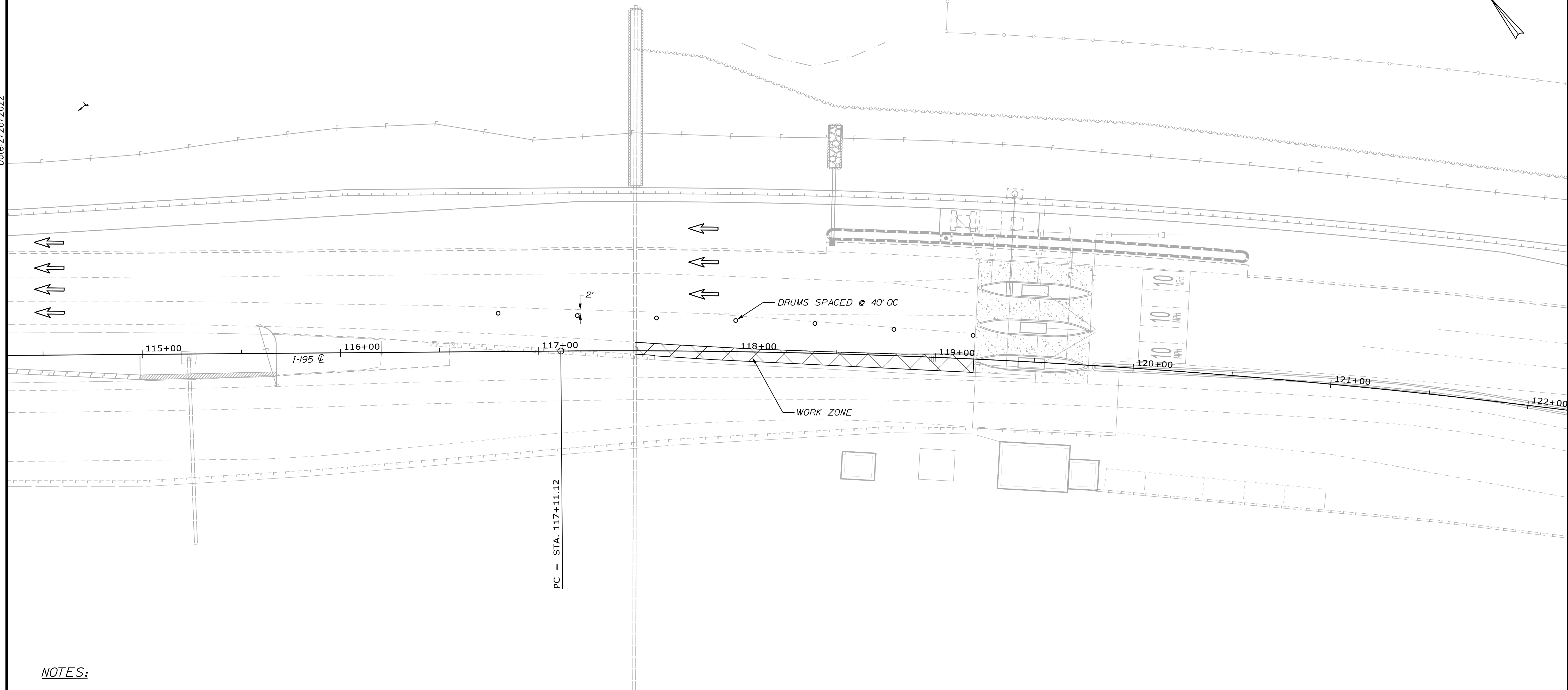
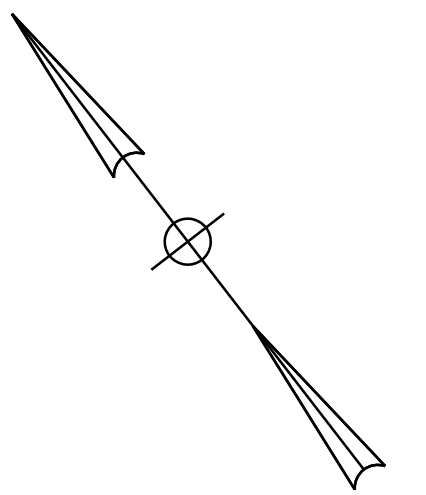
SHEET NUMBER: MT-07

13 OF 56

Filename: ...MSTA\MOT\_Accel\_Lane.dgn



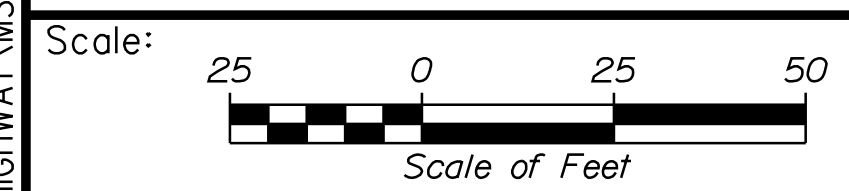
Date: 2/28/2022



**NOTES:**

1. REFER TO SHOULDER CLOSURE AND TOLL LANE CLOSURE DETAILS FOR ADDITIONAL REQUIREMENTS AND SIGNING.
2. TOLL LANE MAY ONLY BE CLOSED FOR PORTIONS OF EACH DAY AS NOTED IN THE SPECIAL PROVISIONS.
3. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT FOR ALL TOLL LANE CLOSURES.

Filename: ...:\00\HIGHWAY\MSTA\MOT\_01.dgn



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
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 TEL (207) 887-3448  
 FAX (207) 883-3376

**MAINE TURNPIKE**

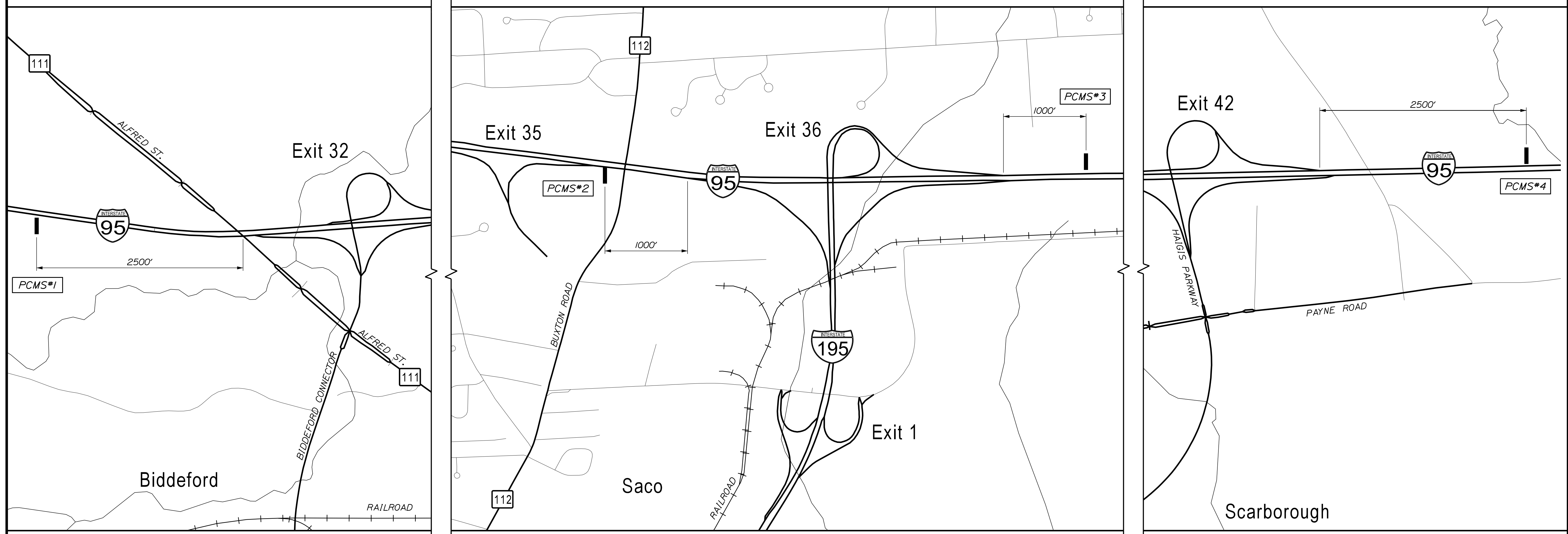
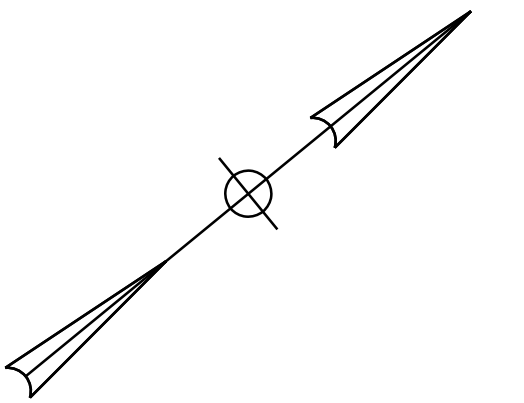
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

**EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION MAINTANENCE OF TRAFFIC I-195 SHOULDER RECONSTRUCTION**

SHEET NUMBER: MT-08  
 14 OF 56

CONTRACT: 2022.02



ALL PCMS (1 WEEK PRIOR TO CLOSURE)

- EXIT 36 RAMP TO CLOSE SCREEN 1
- XX/XX TO XX/XX SCREEN 2
- XX:XX PM TO XX:XX AM SCREEN 3

PCMS #1, #3

- EXIT 36 RAMP CLOSED SCREEN 1
- USE EXIT 32 SCREEN 2

PCMS #2, #4

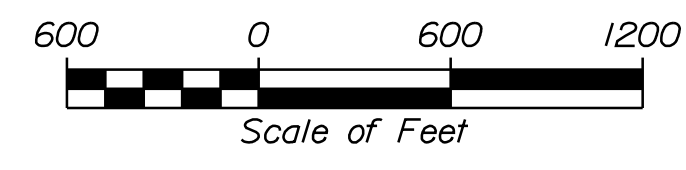
- EXIT 36 RAMP CLOSED SCREEN 1
- USE EXIT 42 SCREEN 2

PCMS MESSAGES

NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 14 DAYS PRIOR TO OFF RAMP CLOSURES SO THAT THE RESIDENT CAN COORDINATE THE CLOSURE WITH MTA.
2. ALL MESSAGES SHALL BE CONFIRMED BY THE RESIDENT.
3. PCMS MAY BE REUSED AT MULTIPLE LOCATIONS.
4. OFF RAMP CLOSURES ALSO REQUIRE THE USE OF THE OFF RAMP CLOSURE DETAIL.

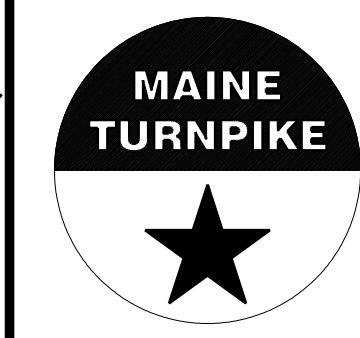
Filename: ...\\HIGHWAY\MSTA\_Ramp Closure.dgn



Designed by:



STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376



THE GOLD STAR MEMORIAL HIGHWAY

EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION MAINTENANCE OF TRAFFIC OFF RAMP CLOSURE PLAN

No.	Revision	By	Date

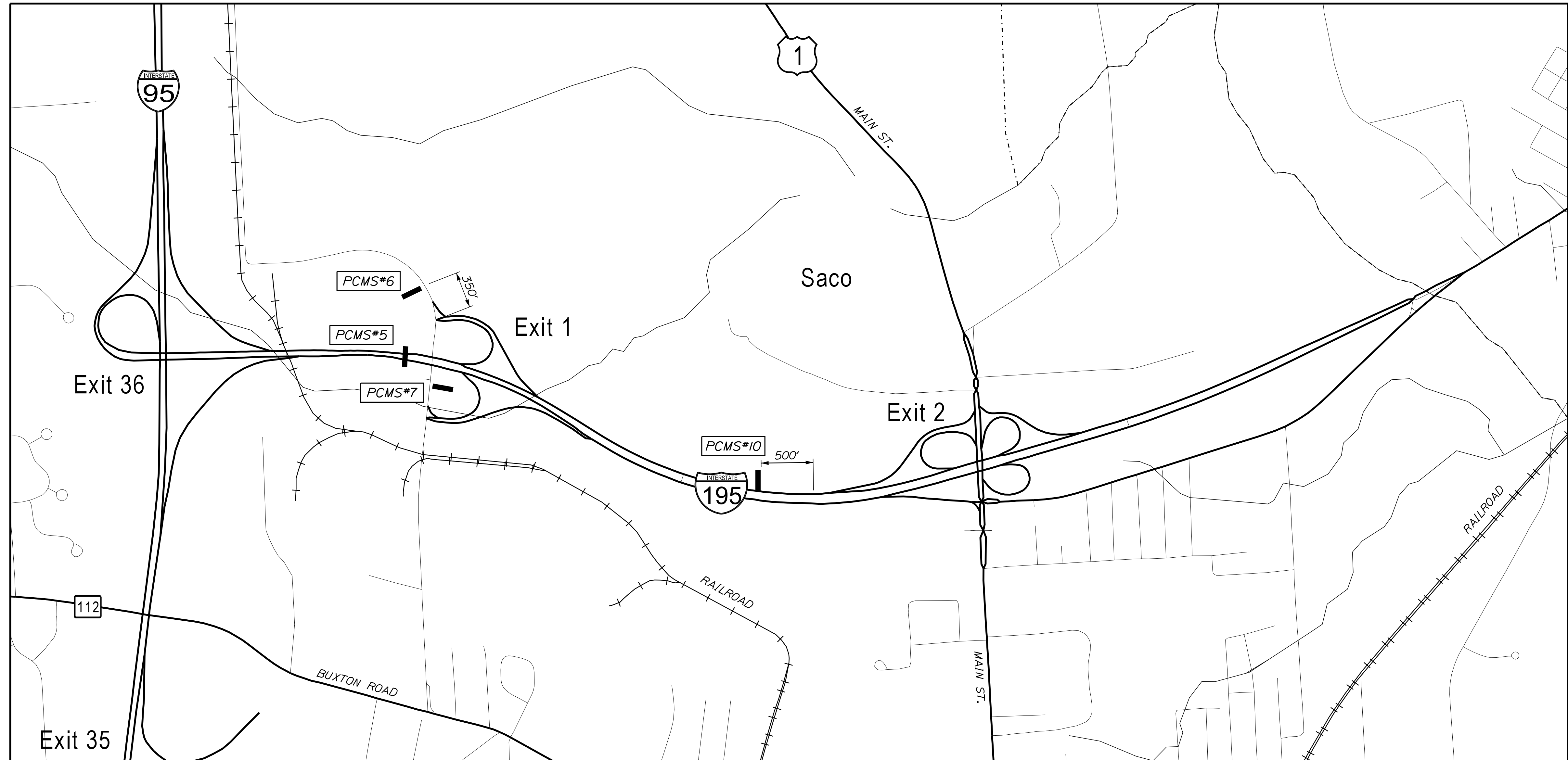
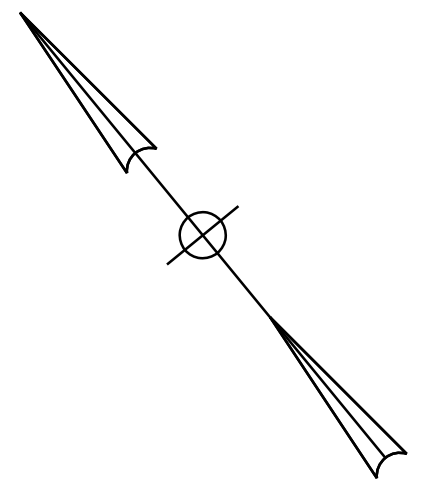
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.			
	By	Date	
Designed	THG	10\21	Checked
Drawn	CHL	10\21	In Charge of

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT:2022.02

SHEET NUMBER: MT-09

15 OF 56



ALL PCMS (1 WEEK PRIOR TO CLOSURE)

I-95 XX  
EXIT 36  
TO CLOSE

SCREEN 1

XX/XX  
TO  
XX/XX

SCREEN 2

XX:XX PM  
TO  
XX:XX AM

SCREEN 3

PCMS MESSAGES

ALL PCMS (NB OR SB)

I-95 XX  
EXIT 36  
CLOSED

SCREEN 1

USE  
ROUTE 1

SCREEN 2

**NOTES:**

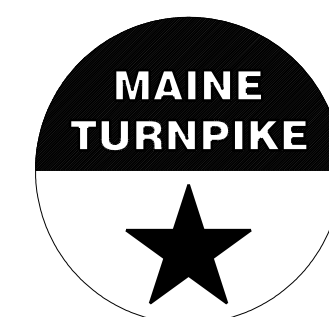
1. ALL MESSAGES SHALL BE CONFIRMED BY THE RESIDENT.
2. I-95 EXIT 36 ON RAMP CLOSURES ALSO REQUIRE THE USE OF APPROPRIATE ON RAMP CLOSURE DETAIL.



Designed by:



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FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

**EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
MAINTENANCE OF TRAFFIC  
ON RAMP CLOSURE PLAN**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.					
	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE









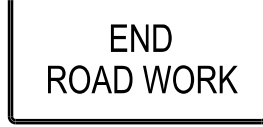
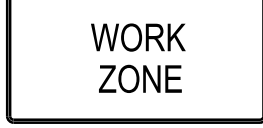
CONTRACT:2022.02







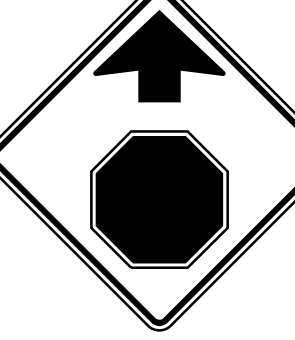


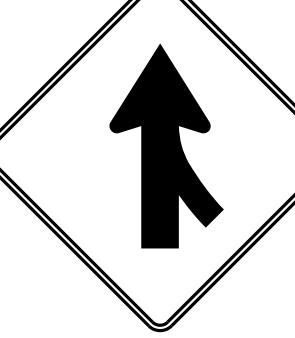
SHEET NUMBER: MT-10

16 OF 56

Filename: ...\\HIGHWAY\MSTA\_Ramp Closure.dgn



IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-3	48"	48"		6" 6" 6"	4" 4"		6	ORANGE	BLACK		16.00 (96)	
CS-4	48"	48"		6" 6" 6"	4" 4"		2	ORANGE	BLACK		16.00 (32)	
CS-10	48"	48"		7" 7"	6"		3	ORANGE	BLACK		16.00 (48)	
CS-11	48"	48"		6" 6" 6"	4" 4"		6	ORANGE	BLACK		16.00 (96)	
CS-33	96"	36"		6" 6" 6"	4" 4"		4	ORANGE	BLACK		24.00 (96)	
E5-1	72"	60"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			1	GREEN	WHITE		20.00 (20)	
E5-2 (MOD)	60"	48"					1	ORANGE	BLACK		20.00 (20)	
E5-2a	60"	48"					4	ORANGE	BLACK		20.00 (80)	
G20-2	48"	24"					10	ORANGE	BLACK		8.00 (80)	
G20-5aP	48"	24"					6	ORANGE	BLACK		8.00 (48)	


IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
M1-1	36"	36"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			3	RED/ BLUE	WHITE		9.00 (27)	
R1-1	48"	48"					1	RED	WHITE		16.00 (16)	
R2-1 35 50 60	48"	60"					4 2 6	WHITE	BLACK		20.00 (80) (40) (120)	
R2-6aP	48"	24"					6	WHITE	BLACK		8.00 (48)	
R2-12	36"	54"					8	WHITE	BLACK		13.5 (108)	
R4-9	36"	48"					4	WHITE	BLACK		12.00 (48)	
W3-1	48"	48"					1	ORANGE	BLACK/ RED		16.00 (16)	
W3-4	48"	48"					6	ORANGE	BLACK		16.00 (96)	
W3-5 35 50 60	48"	48"					4 2 6	ORANGE	BLACK		16.00 (64) (32) (96)	
W4-1	48"	48"					1	ORANGE	BLACK		16.00 (16)	

Filename: ...MSTA\_MOTSignSummary.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
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FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

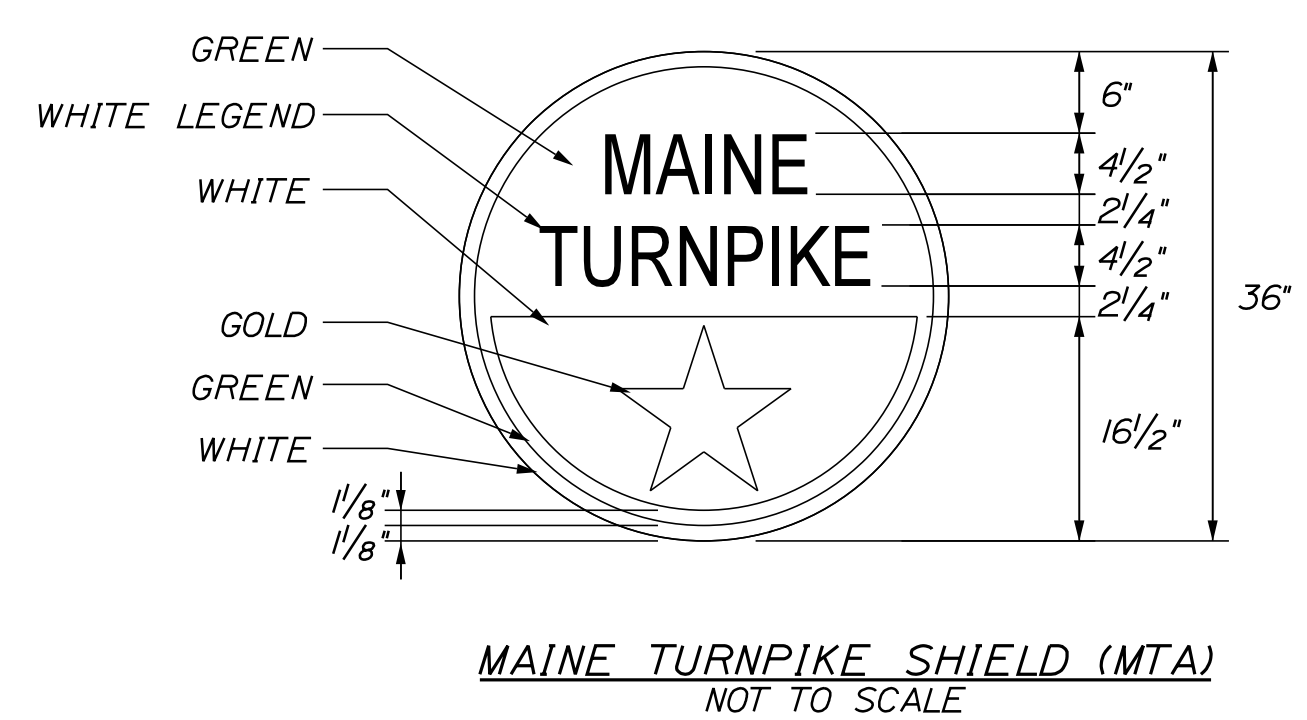
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
MAINTENANCE OF TRAFFIC  
SIGN SUMMARY (1 OF 2)

SHEET NUMBER: MT-11  
CONTRACT:2022.02  
17 OF 56

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W4-2 (LEFT) (RIGHT)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			2 6	ORANGE	BLACK		16.00 (32) (96)	
W7-3aP	36"	30"					6	ORANGE	BLACK		7.50 (45)	
W8-1	48"	48"					8	ORANGE	BLACK		16.00 (128)	
W8-11	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W8-15	48"	48"					9	ORANGE	BLACK		16.00 (144)	
W8-15P	30"	24"					9	ORANGE	BLACK		5.00 (45)	
W8-24a	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W13-4P	30"	30"					4	ORANGE	BLACK		6.25 (25)	
W16-4P	36"	30"					2	ORANGE	BLACK		7.50 (15)	
W20-1 (1 MILE) (AHEAD)	48"	48"					10 14	ORANGE	BLACK		16.00 (160) (224)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W20-4	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			4	ORANGE	BLACK		16.00 (64)	
W20-5 (LEFT) (RIGHT) (LANE CLOSED)	48"	48"					2 6 3	ORANGE	BLACK		16.00 (32) (96) (48)	
W20-7	48"	48"					5	ORANGE	BLACK		16.00 (80)	
W21-5	48"	48"					3	ORANGE	BLACK		16.00 (48)	
W21-5aR (LEFT) (RIGHT)	48"	48"					1 1	ORANGE	BLACK		16.00 (16) (16)	
W21-5bR (LEFT) (RIGHT)	48"	48"					1 1	ORANGE	BLACK		16.00 (16) (16)	
LOGO S	36"	36"		SEE DETAILS			3	SEE DETAILS			9.00 (27)	



NOTE: FOR 24" SHIELD REDUCE ALL MEASUREMENTS BY 1/3.

Filename: ...MSTA\_MOTSignSummary.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

By	Date	By	Date
Designed	THG 10\21	Checked	JRH 10\21
Drawn	CHL 10\21	In Charge of	JRH 10\21

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

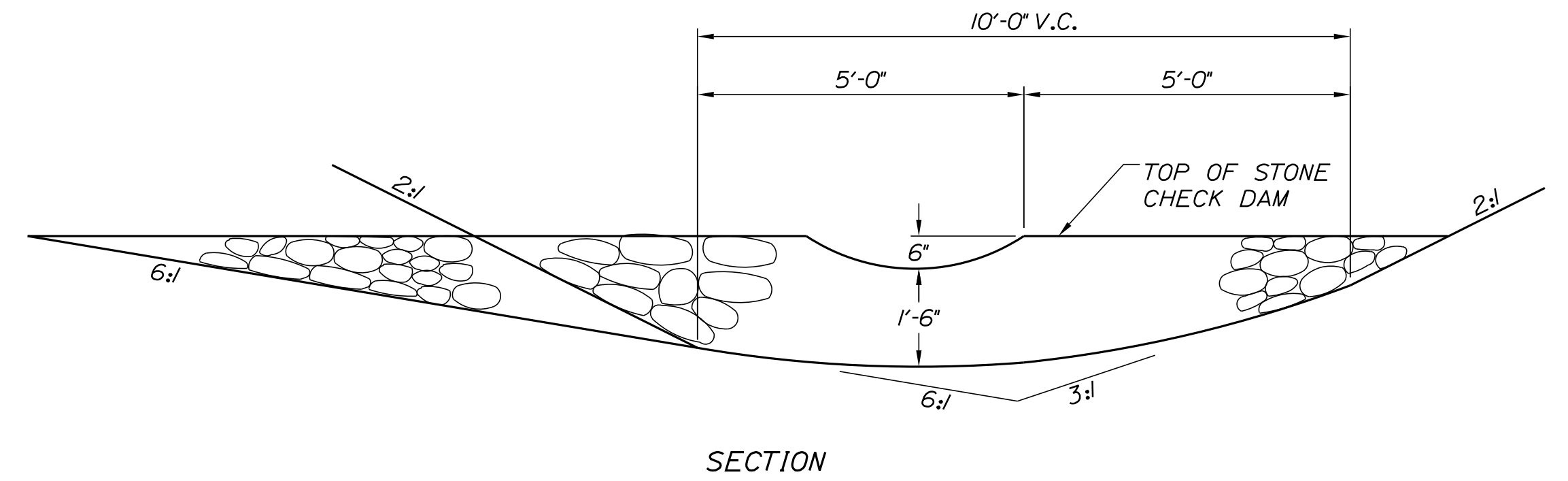
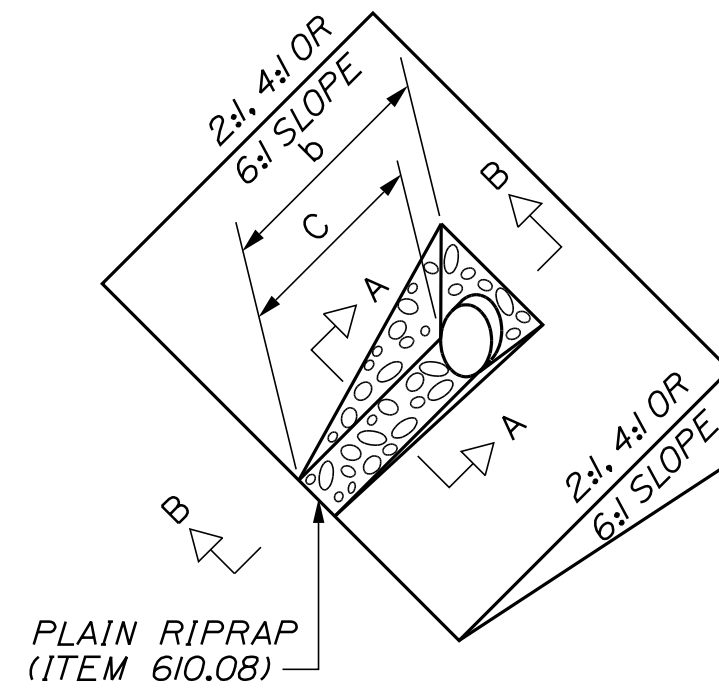
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
MAINTENANCE OF TRAFFIC  
SIGN SUMMARY (2 OF 2)

SHEET NUMBER: MT-12  
CONTRACT: 2022.02  
18 OF 56

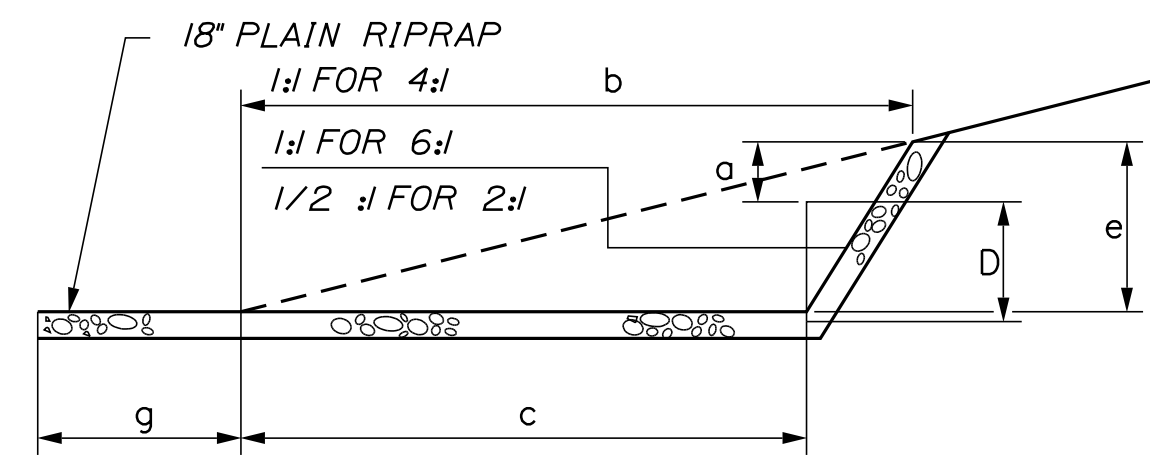
**DIMENSIONS FOR SLOPE OF 2:1**

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

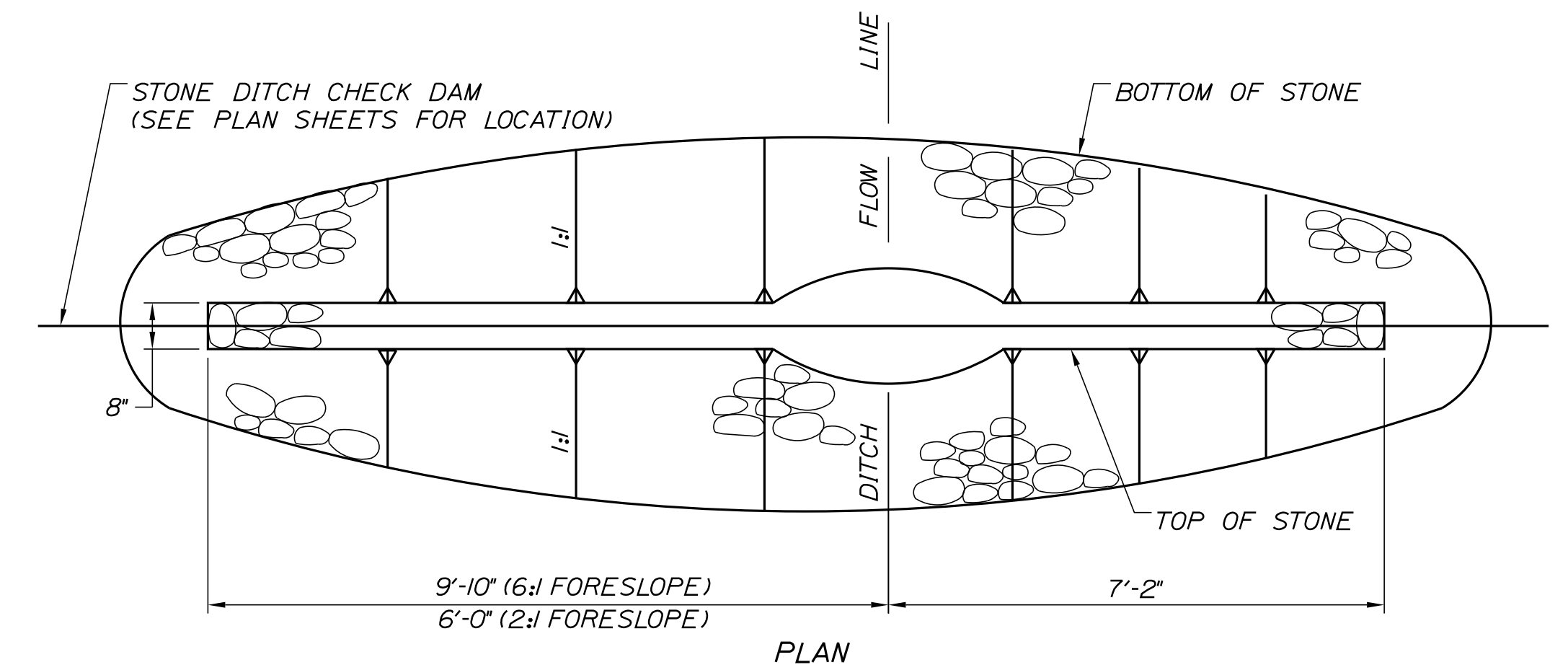


**DIMENSIONS FOR SLOPE OF 4:1**

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



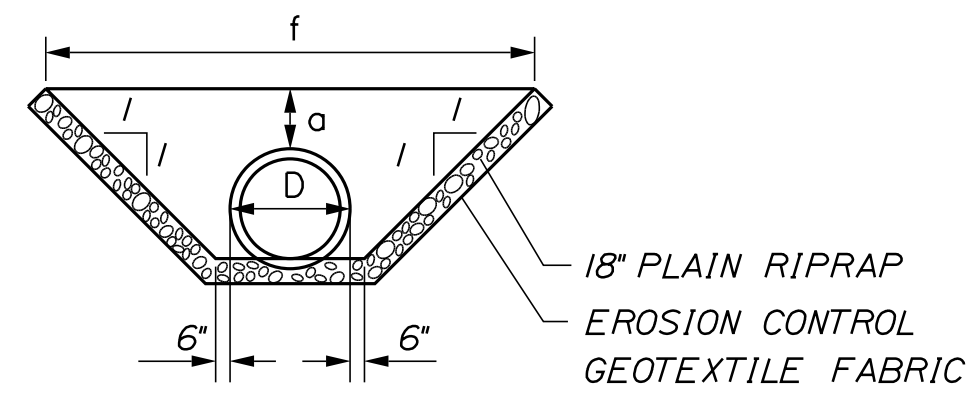
SECTION B-B



PLAN

**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



SECTION A-A

**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.

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

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

**STONE CHECK DAM**

Date: 2/28/2022

Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
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 FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION DRAINAGE DETAILS (1 OF 2)

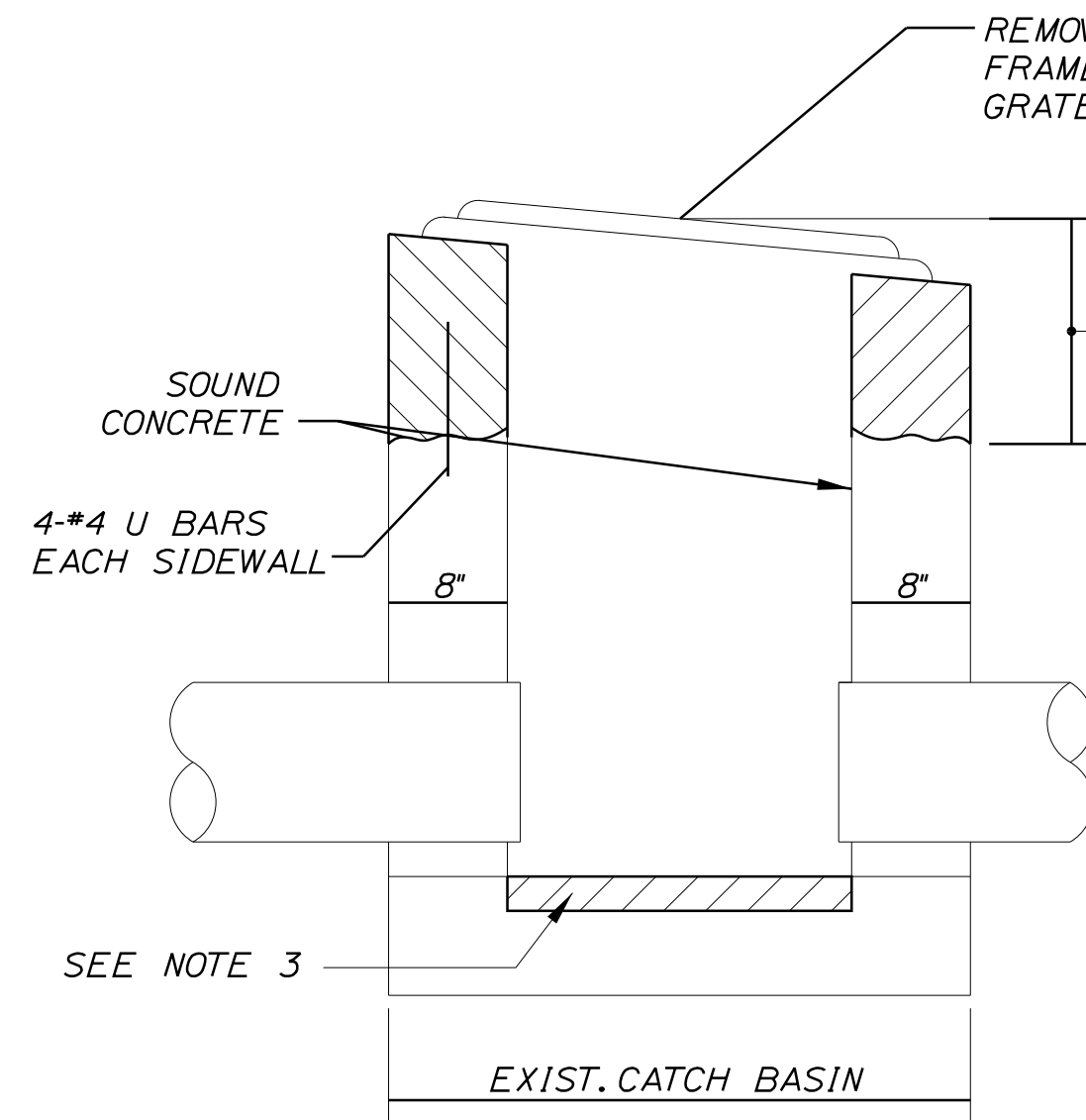
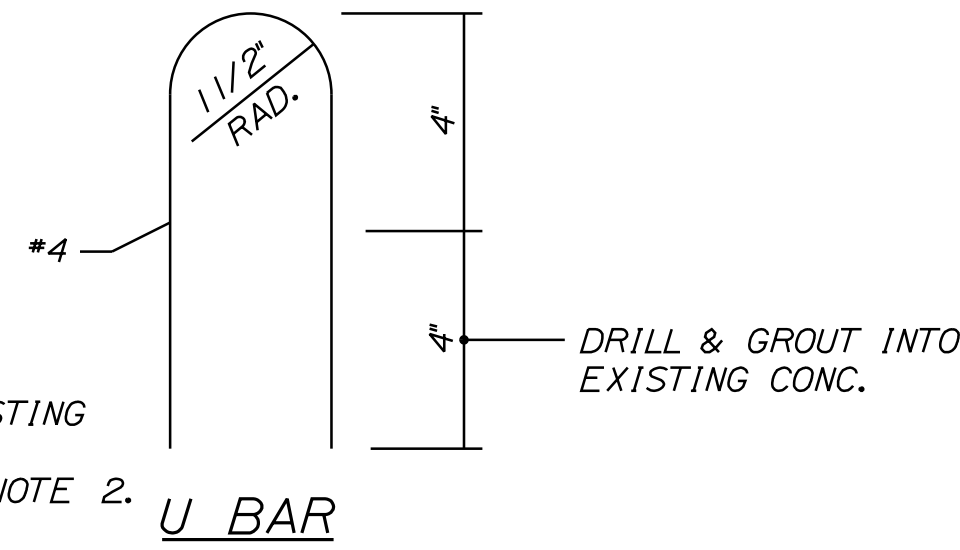
SHEET NUMBER: DT-01  
 19 OF 56

CONTRACT: 2022.02



Date: 2/28/2022

Filename: ...000\HIGHWAY\MSTA\...Details.dgn

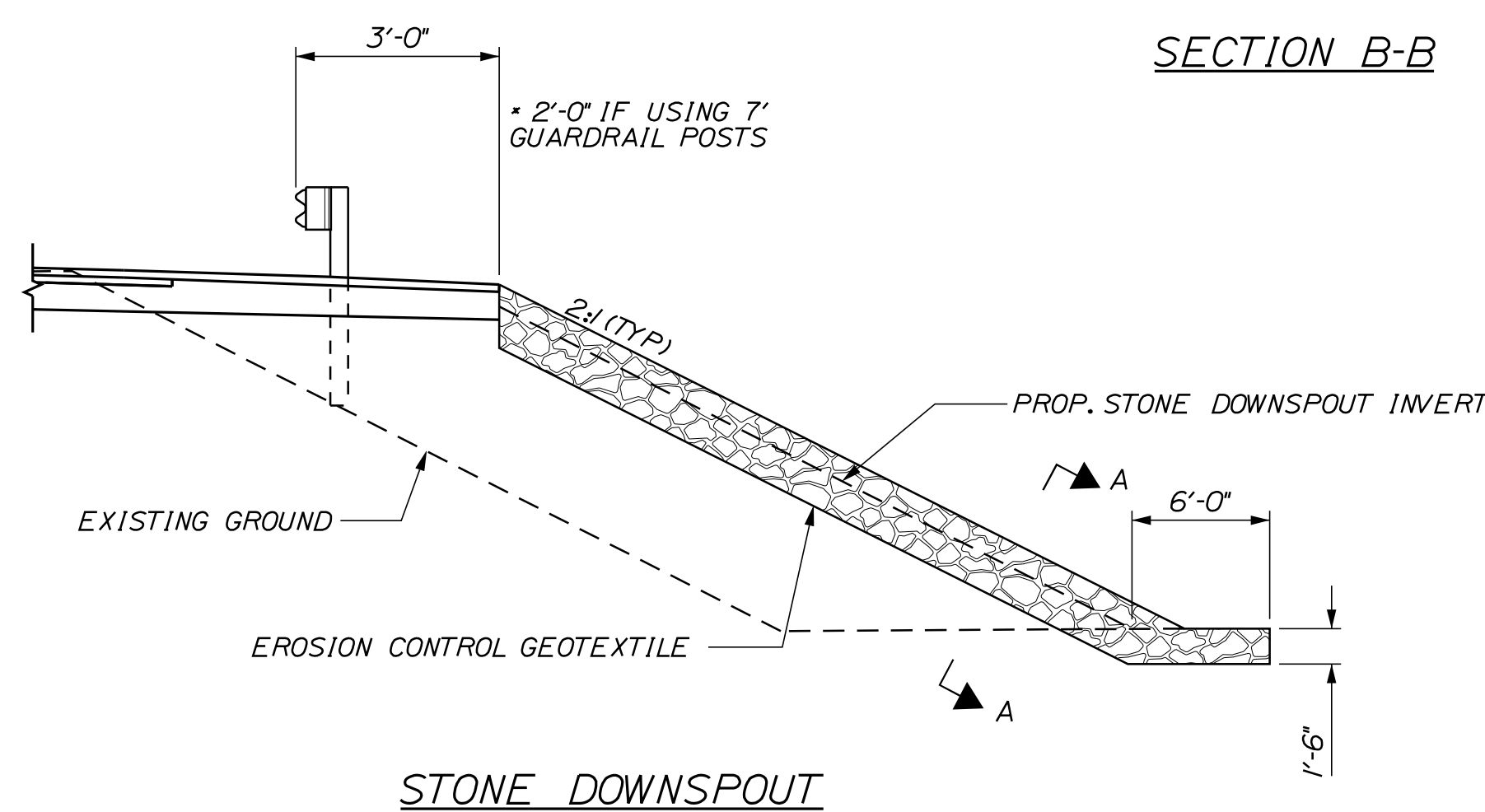
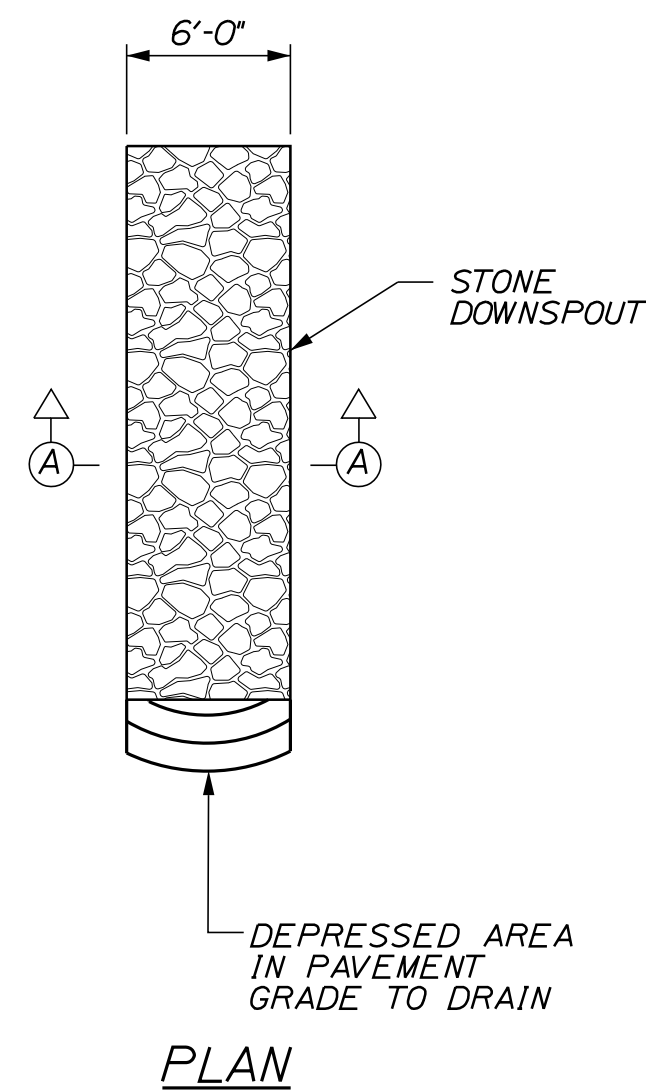


REMOVE EXISTING FRAME AND GRATE. SEE NOTE 2.  
 REMOVE EXISTING FRAME, CONCRETE AND ANCHOR RODS TO SOUND CONCRETE. REFORM BASIN TO GRADE USING CLASS "AAA" CONCRETE. EXISTING FRAME MAY BE ENCASED IN CONCRETE.

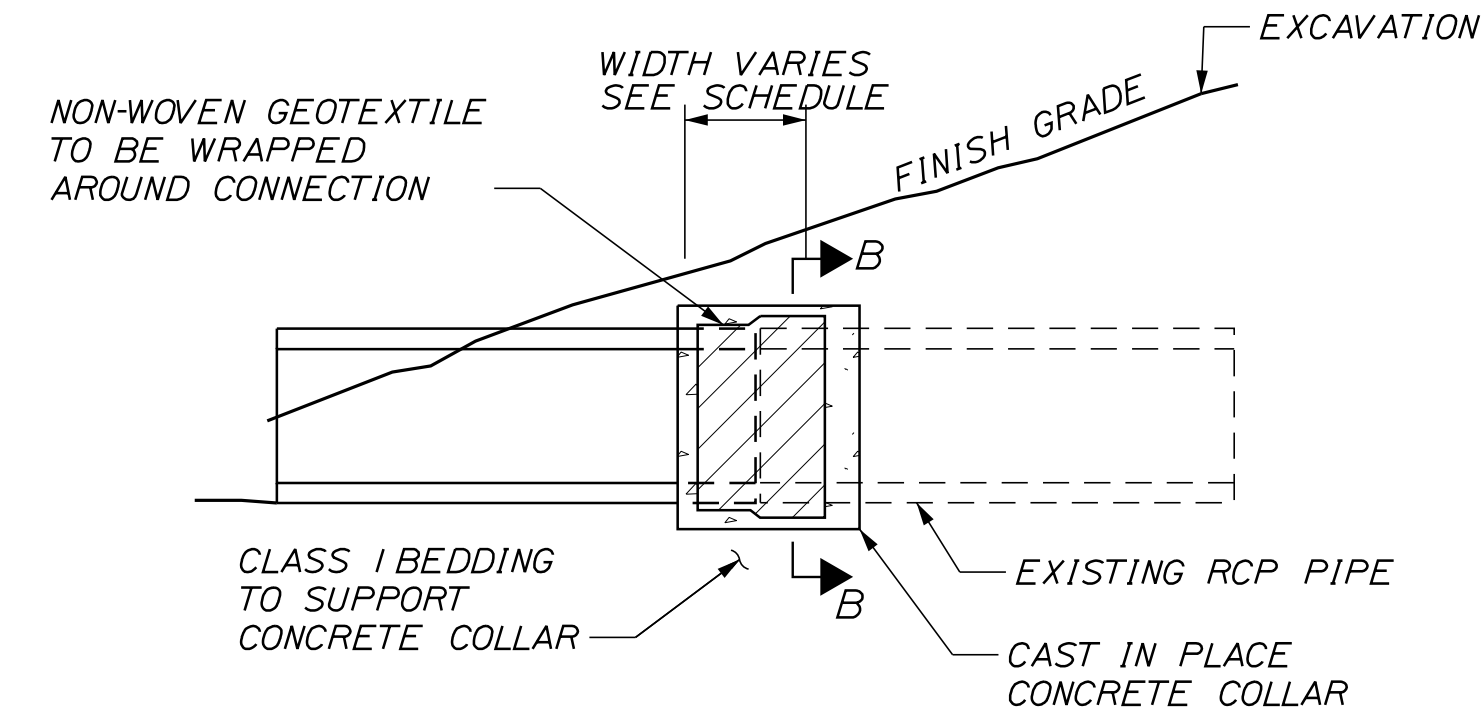
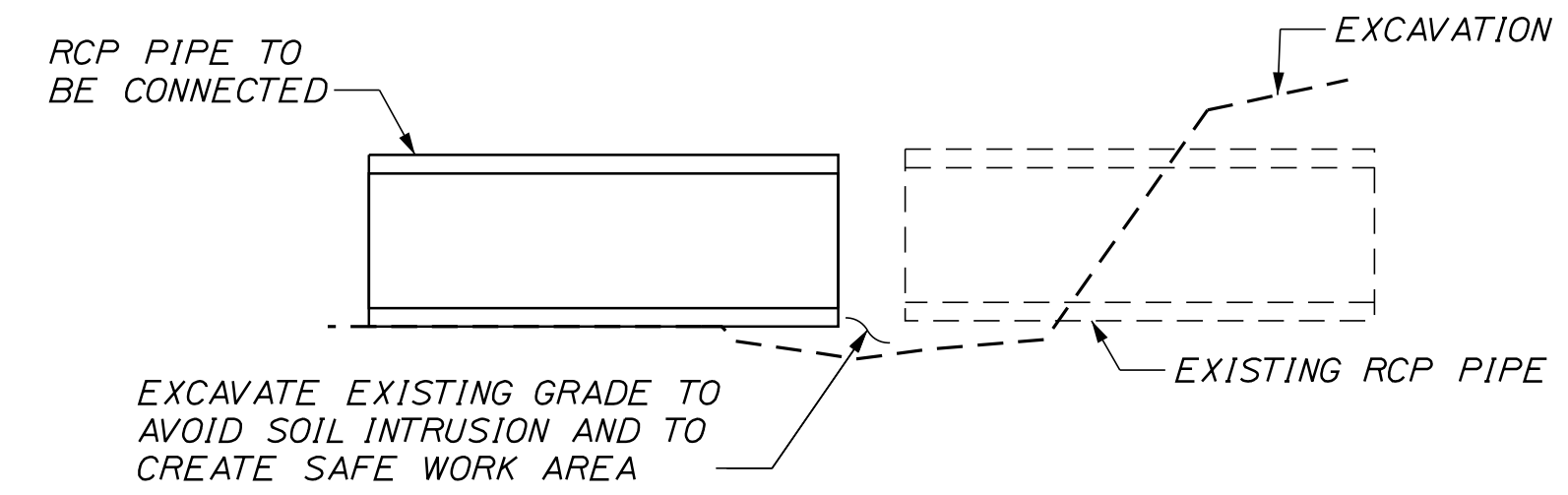
**NOTES:**

1. ALL EXISTING CATCH BASINS SHALL BE REBUILT WITH THE FRAME AND GRATE SET, AND CONCRETE FINISHED, TO THE FINAL PAVEMENT GRADE.
2. RESET EXISTING FRAME AND GRATE. IF ANY FRAMES OR GRATES ARE NOT REUSABLE NEW GRATES OR FRAMES SHALL BE SUPPLIED BY THE CONTRACTOR.
3. REMOVE UNSOUND CONCRETE (2" MIN.) AND REPLACE WITH NEW CONCRETE IF DIRECTED BY THE RESIDENT.

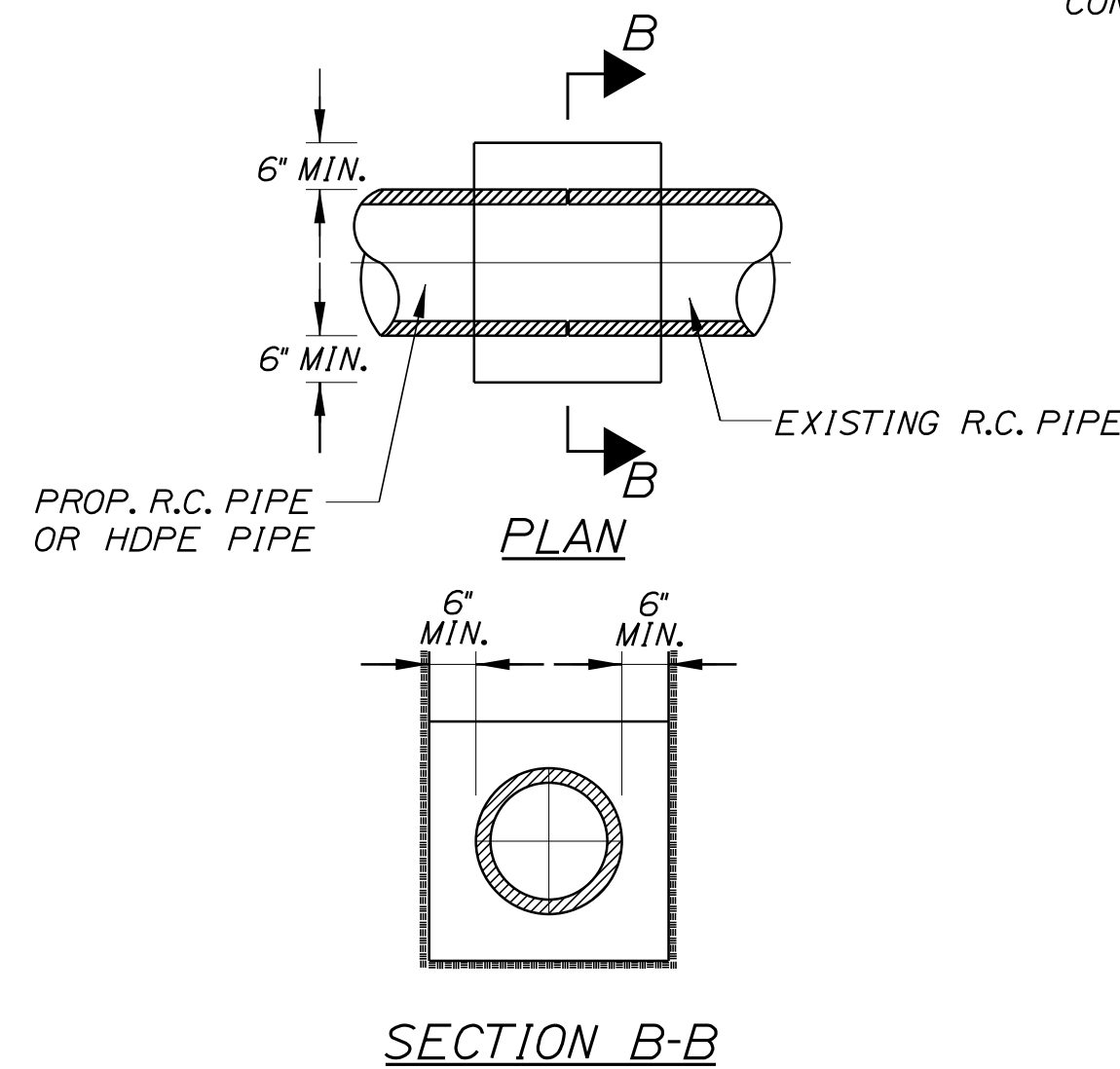
**REBUILD CATCH BASIN TO GRADE - TYPE II**



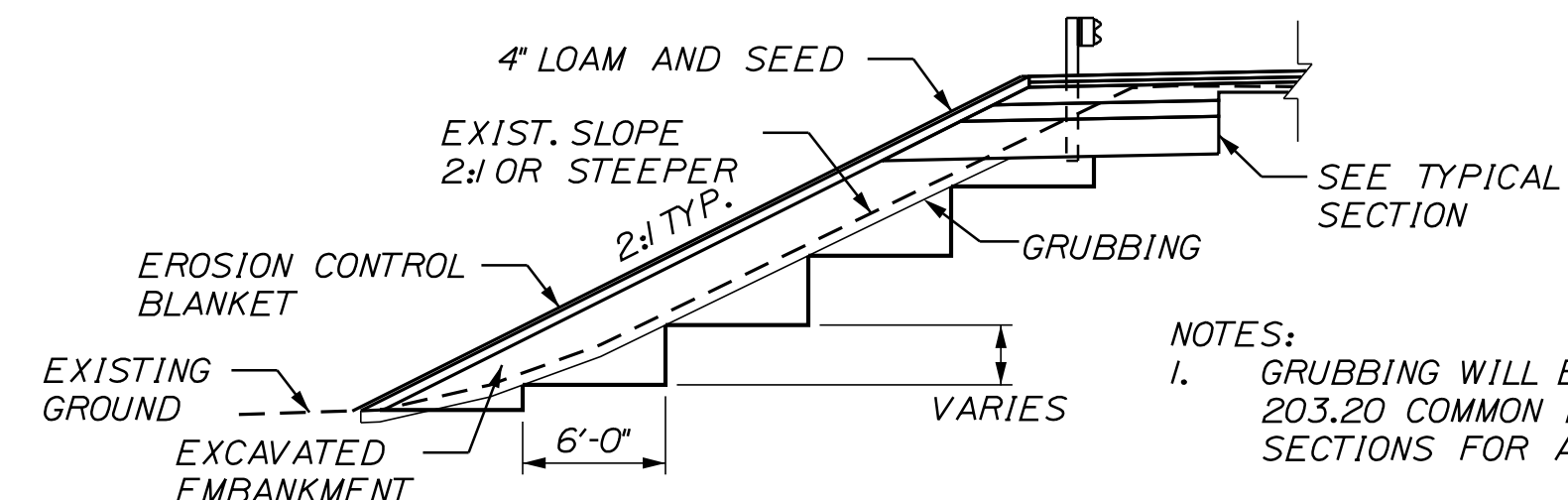
**STONE DOWNSPOUT**



**CONCRETE COLLAR FOR REINFORCED CONCRETE PIPES**



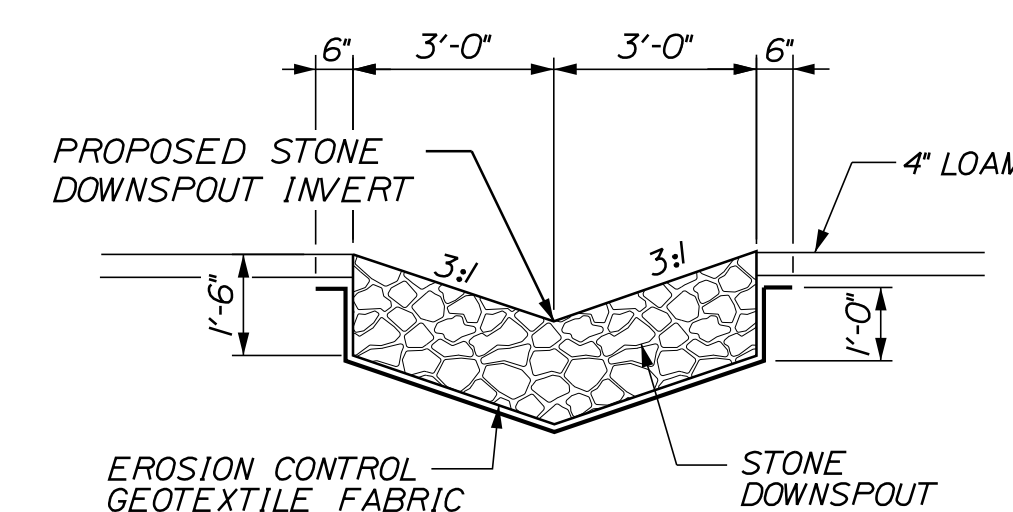
**SECTION B-B**



**BENCH DETAIL**

**NOTES:**

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



**SECTION A-A**

1 LF OF DOWNSPOUT= 0.33 CY OF PLAIN RIPRAP  
 1 LF OF DOWNSPOUT= 1.04 SY OF EROSION CONTROL GEOTEXTILE FABRIC

**NOTES:**

1. STONE FOR STONE DOWNSPOUTS SHALL MEET THE REQUIREMENTS OF MAINE DOT SPECIFICATION 703.29 AND WILL BE PAID FOR UNDER ITEM 610.08, PLAIN RIPRAP.
2. CURBING MUST BE IN PLACE PRIOR TO GUARDRAIL INSTALLATION.

**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

**NOTES:**

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

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**MAINE TURNPIKE**

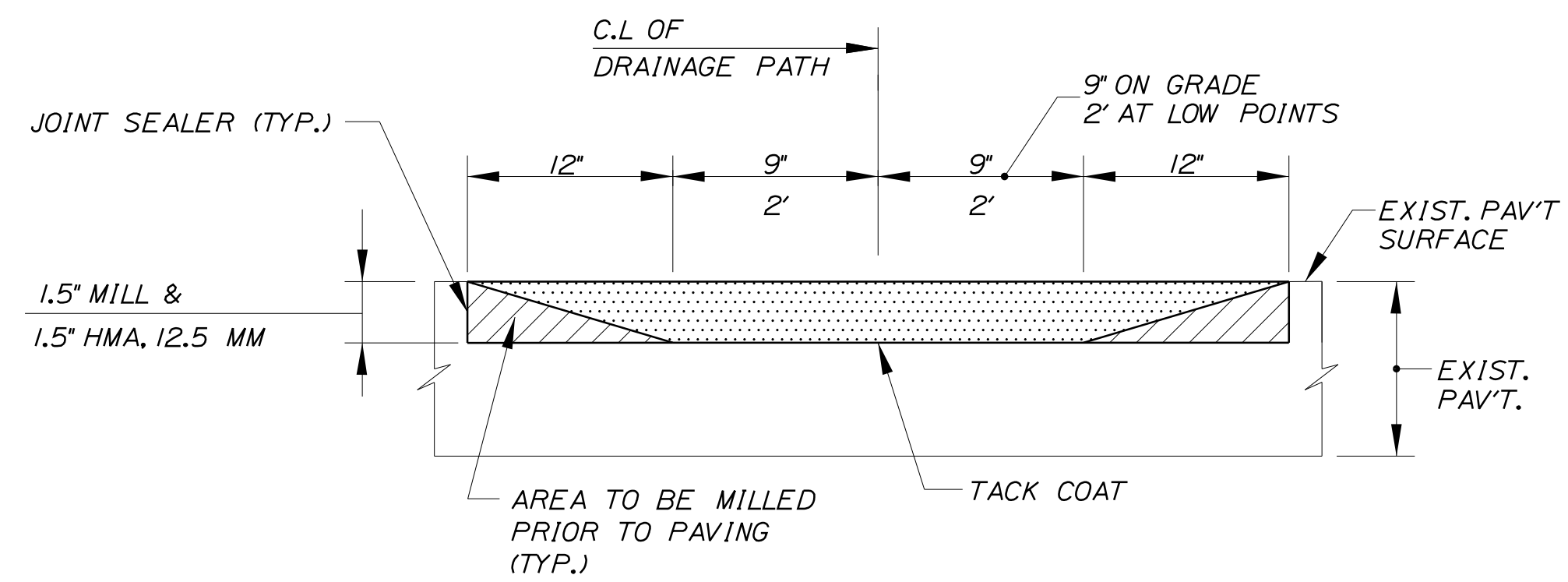
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

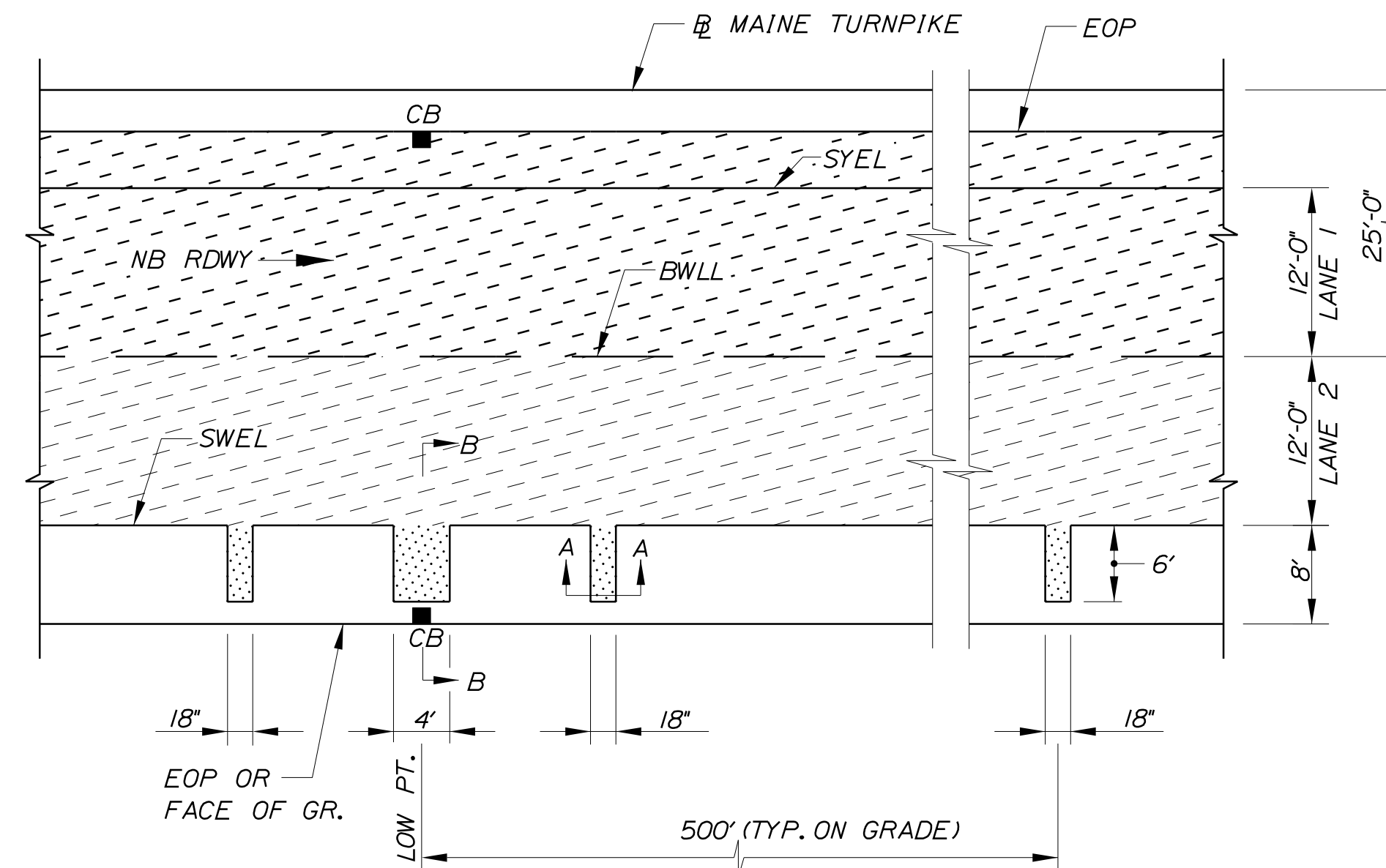
**EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION DRAINAGE DETAILS (2 OF 2)**

SHEET NUMBER: DT-02  
 20 OF 56

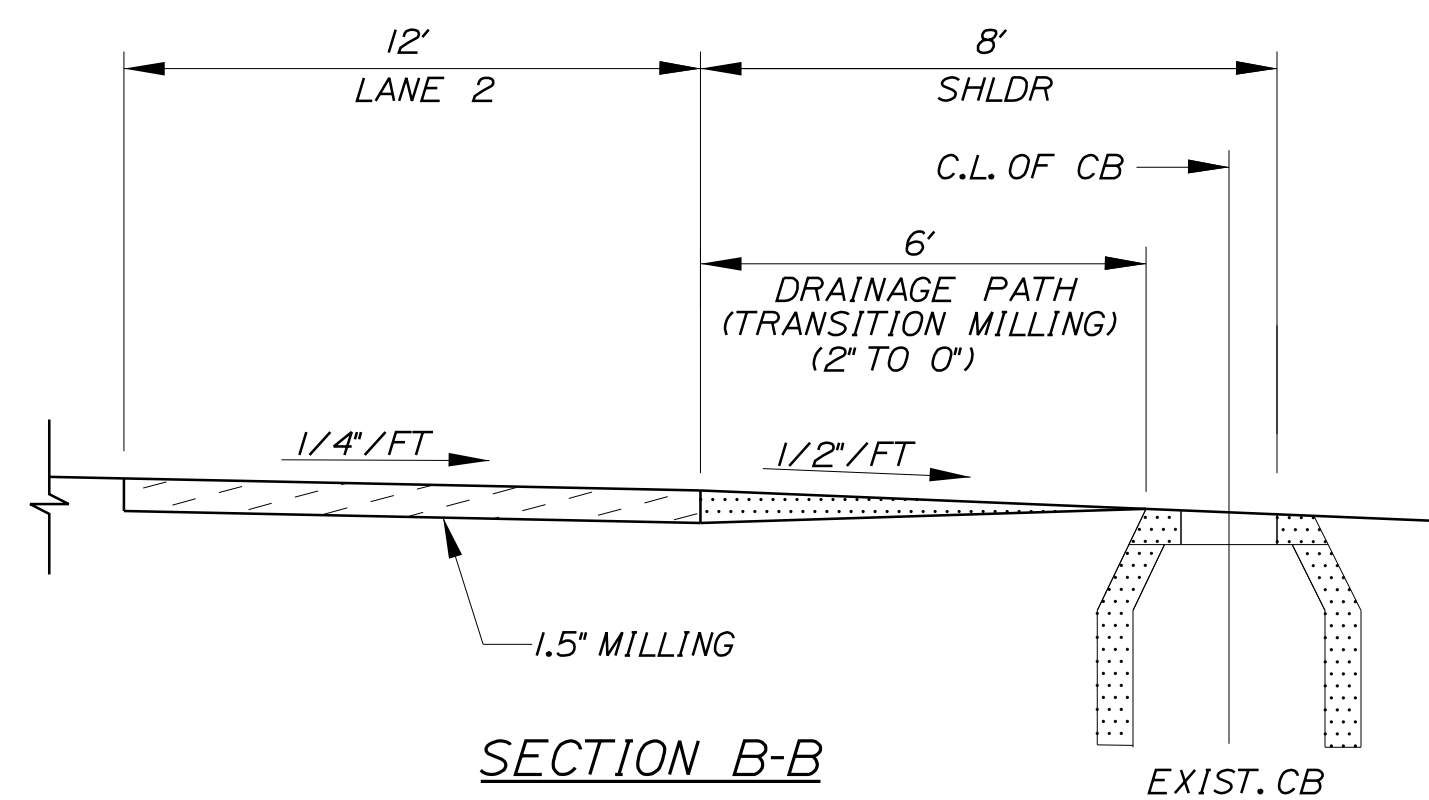
CONTRACT: 2022.02



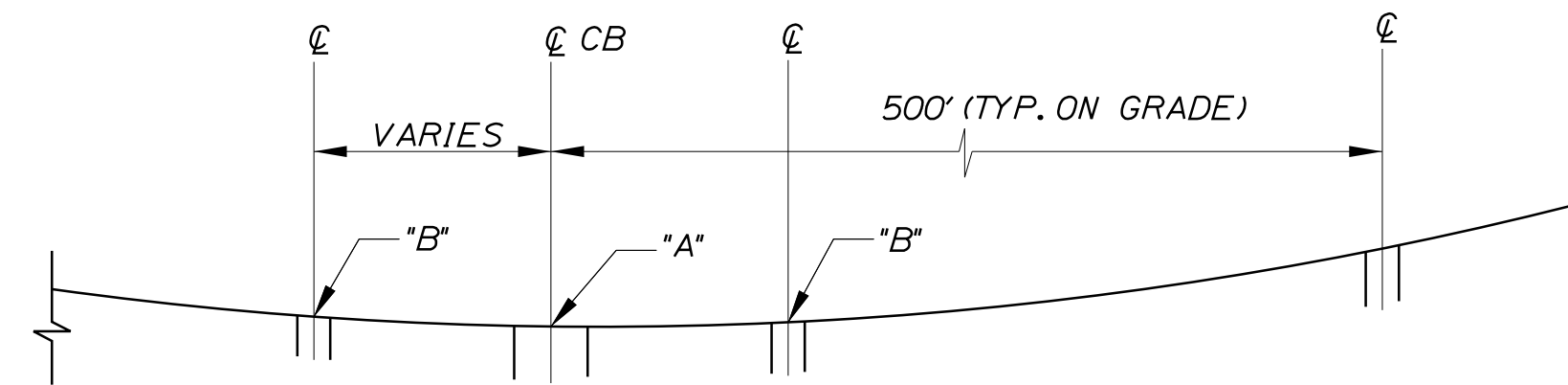
SECTION A-A



PLAN VIEW



SECTION B-B



PROFILE ALONG EDGE OF MILLING

DRAINAGE PATH DETAILS

LEGEND

- = DRAINAGE PATH MILLING
- = TRAVEL LANE MILLING

NOTES:

1. POINT "B" IS 1" HIGHER THAN POINT "A".
2. DRAINAGE PATH REQUIRED AT ALL LOW POINTS.

Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.					
	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

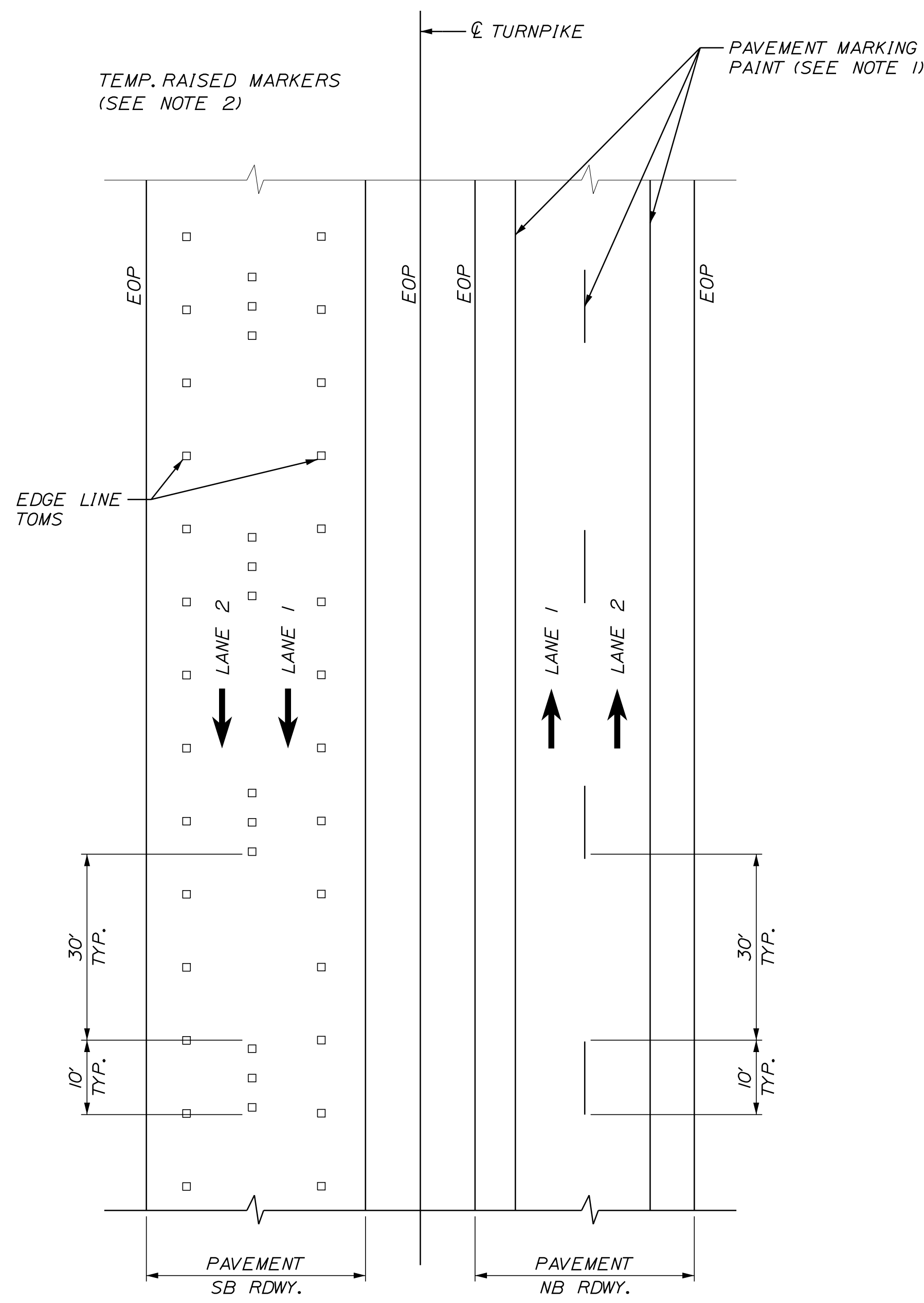
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION

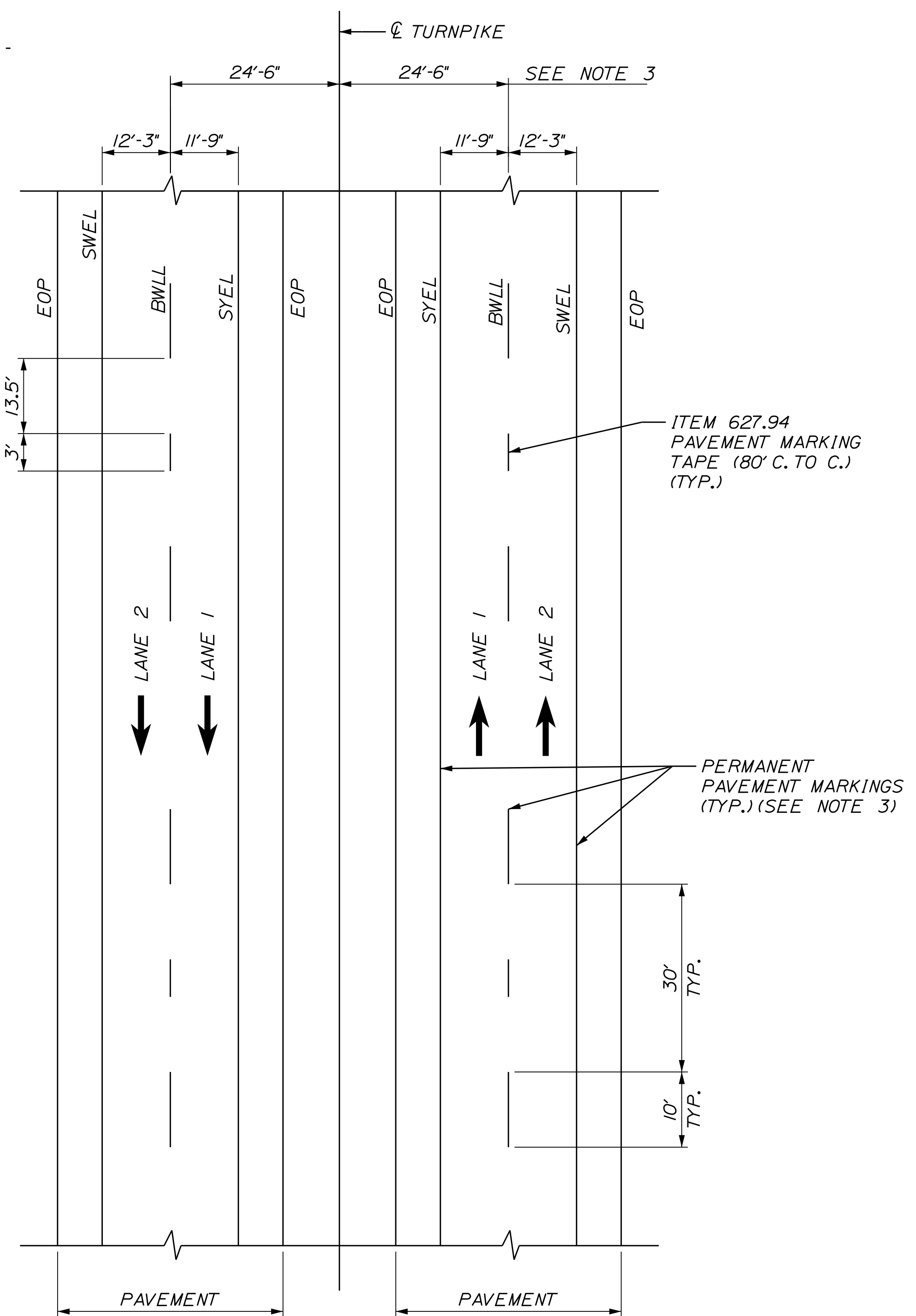
DRAINAGE PATH FOR MILLING DETAILS

SHEET NUMBER: DT-03  
21 OF 56

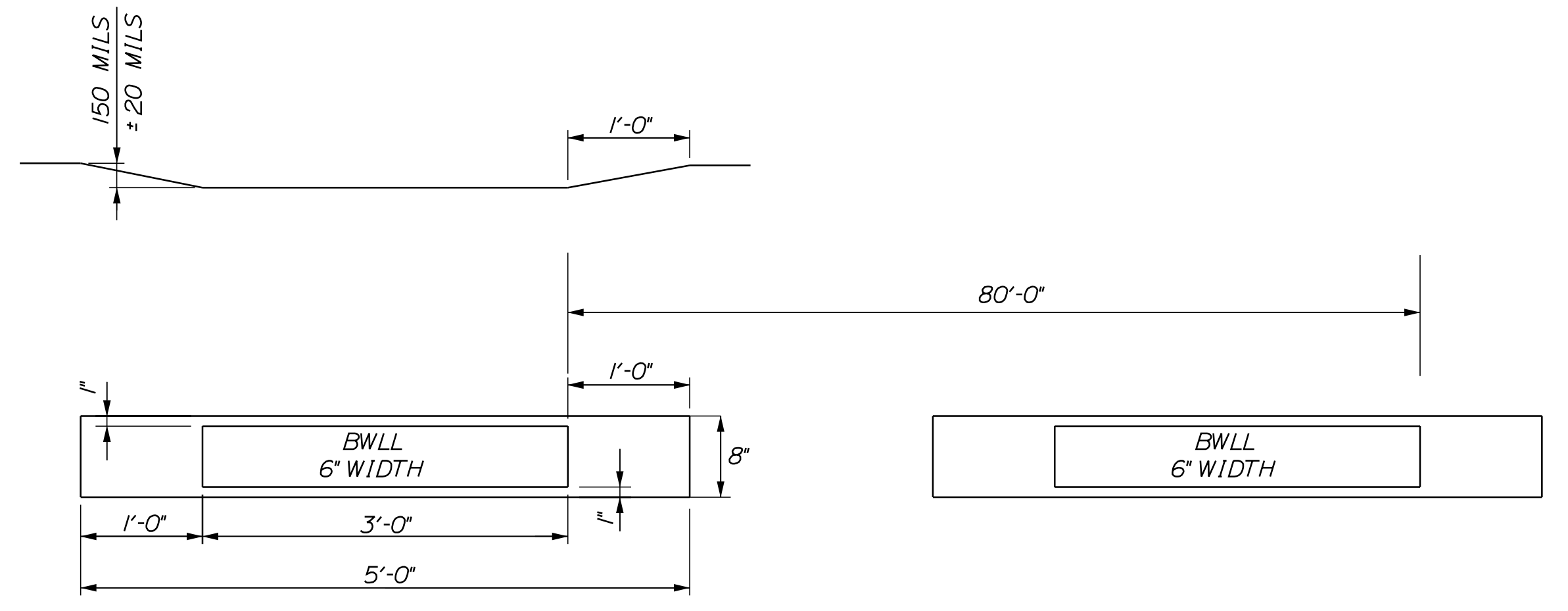
CONTRACT: 2022.02



**TEMP. PAVEMENT MARKINGS  
2 LANE ROADWAY**



**PERMANENT PAVEMENT MARKINGS  
2 LANE ROADWAY**



**ITEM 627.94  
PERMANENT PAVEMENT  
MARKINGS WITH TAPE  
GROOVING DETAIL**

- 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

- NOTES:**
1. PERMANENT PAVEMENT MARKINGS SHALL BE 6" WIDE LINES.
  2. PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED ON BOTH ROADWAYS.
  3. THE OFFSET DISTANCE SHOWN ARE MEASURED FROM THE CENTER OF THE 6" PAINT LINES.
  4. ALL EXISTING PAINT MARKINGS SHALL BE REMOVED PRIOR TO INSTALLATION OF ITEM 627.94 PAVEMENT MARKING TAPE AND SHALL BE INCIDENTAL TO INSTALLATION OF THE TAPE.
  5. ON DECELERATION RAMP, THE DWLL SHALL BEGIN AT THE BEGINNING OF THE FULL WIDTH DECELERATION LANE AND EXTEND TO THE THEORETICAL GORE MARKINGS.
  6. ITEM 627.94 PAVEMENT MARKING TAPE FOR DWLL SHALL BE INSTALLED IN AN "IN-AND-OUT" GROOVING PATTERN. SEE DETAIL THIS SHEET.

- NOTES:**
1. TEMPORARY PAVEMENT MARKINGS ON MILLED PAVEMENT SHALL BE 6" SOLID WHITE, BROKEN WHITE, AND SOLID YELLOW PAINT LINES.
  2. TEMPORARY PAVEMENT MARKINGS ON NEW HMA 12.5mm, OR SHIM MATERIAL, SHALL BE TEMPORARY RAISED PAVEMENT MARKERS. "SOLID" WHITE AND "SOLID" YELLOW LANE LINES SHALL BE TEMPORARY RAISED PAVEMENT MARKERS SPACED AT 10'-0" C. TO C. "BROKEN" WHITE LANE LINES SHALL BE TEMPORARY RAISED PAVEMENT MARKERS SPACED 5'-0" C. TO C. EVERY 40'-0". TEMPORARY 6" PAVING MARKING TAPE SHALL BE USED ON RADII ON SURFACE PAVEMENT. A 3' PIECE EVERY 40'.

Filename: ...000\HIGHWAY\MSTA\...Details.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
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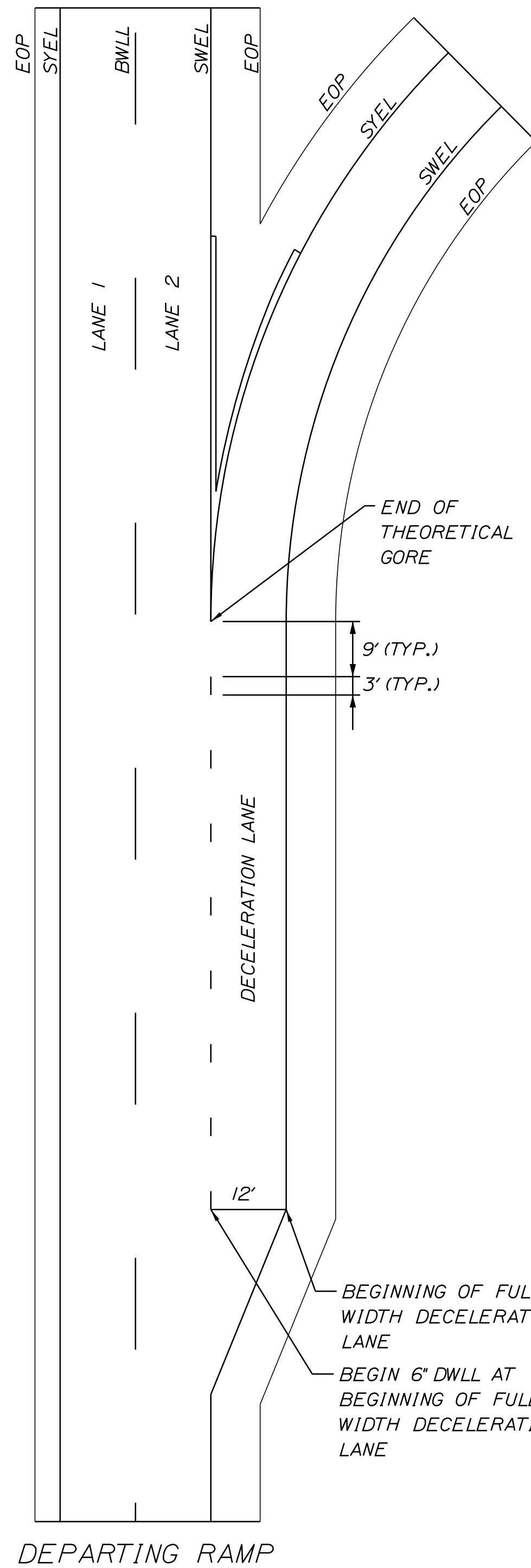
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

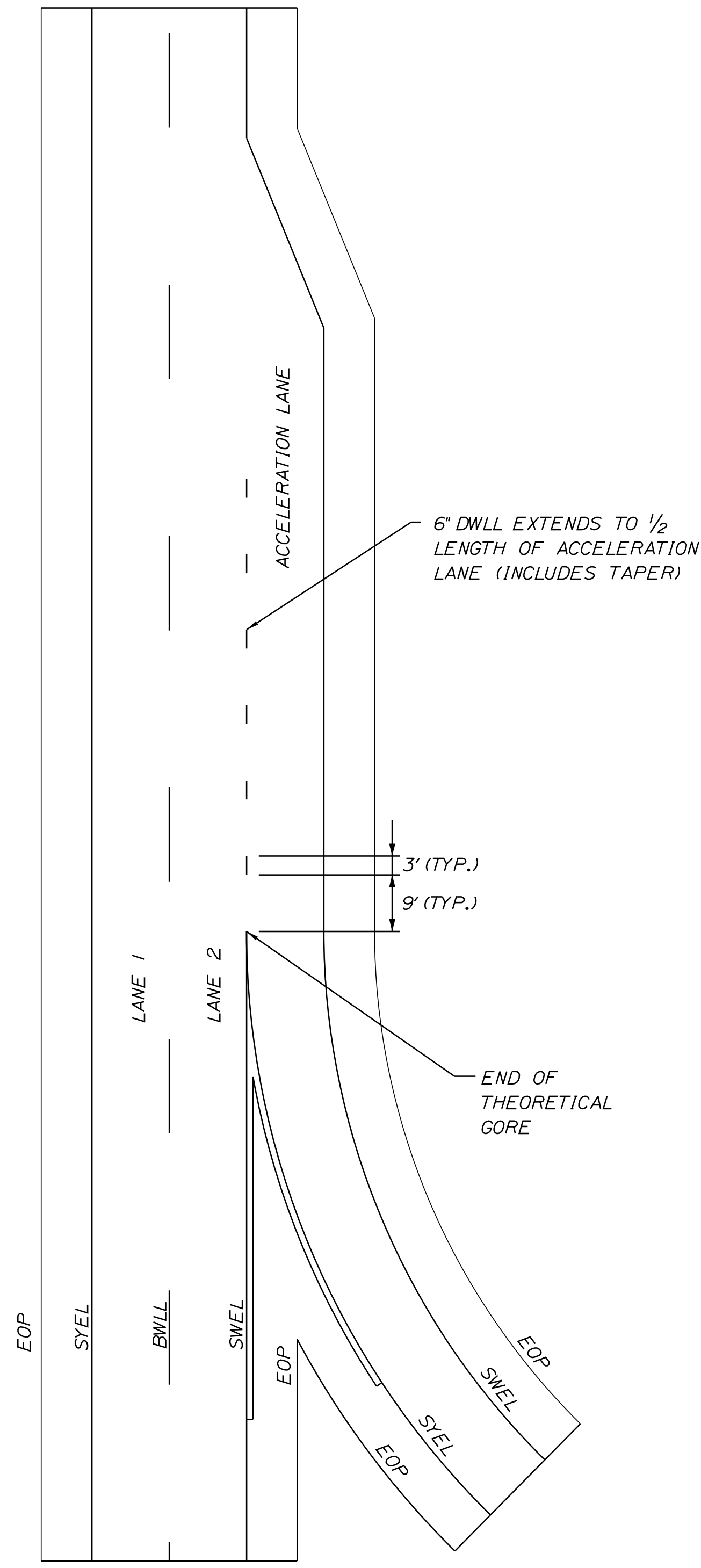
**EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
STRIPING DETAILS  
(1 OF 2)**

SHEET NUMBER: DT-04  
CONTRACT: 2022.02  
22 OF 56

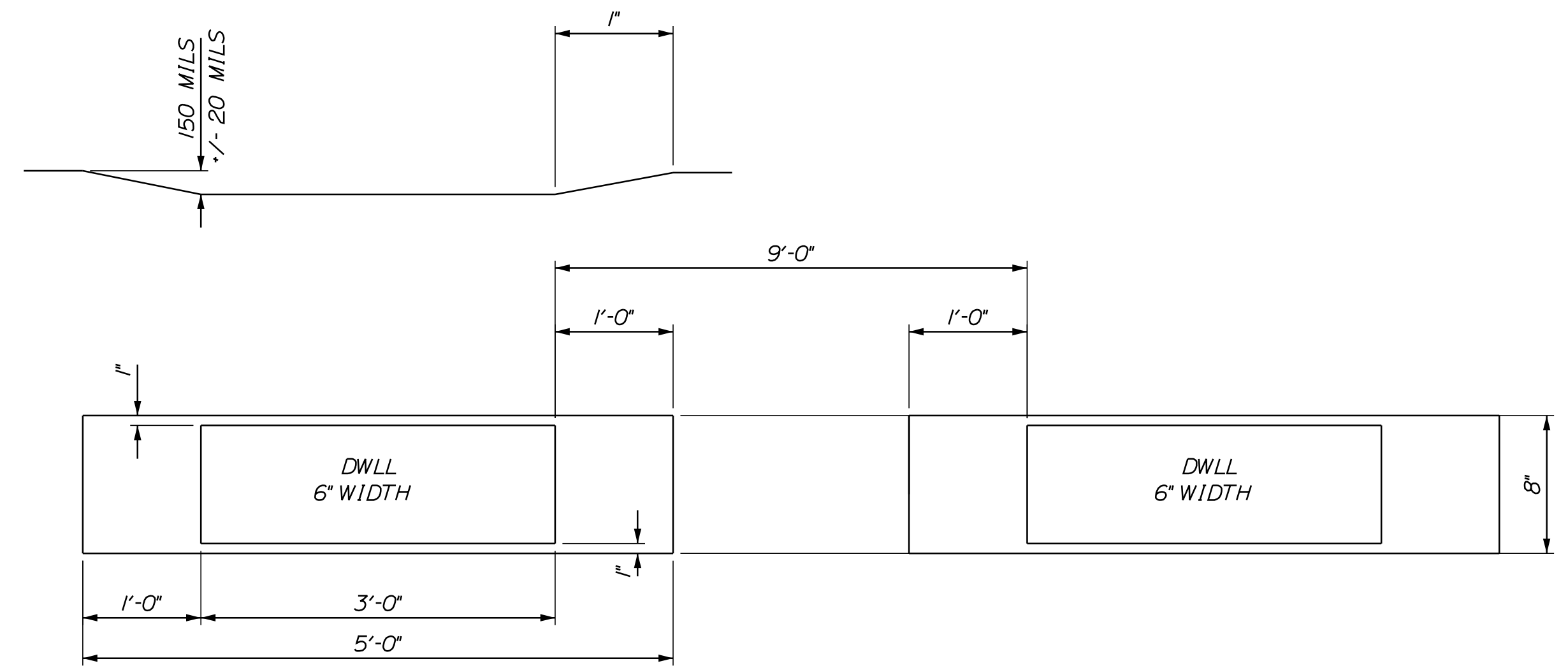




DEPARTING RAMP



ENTERING RAMP



ITEM 627.941  
DWLL PERMANENT PAVEMENT  
MARKINGS WITH TAPE  
GROOVING DETAIL

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

NOTES:

1. ALL EXISTING PAINT MARKINGS SHALL BE REMOVED PRIOR TO INSTALLATION OF ITEM 627.941 PAVEMENT MARKING TAPE AND SHALL BE INCIDENTAL TO INSTALLATION OF THE TAPE.
2. ON DEPARTING RAMP, THE DWLL SHALL BEGIN AT THE BEGINNING OF THE FULL WIDTH DECELERATION LANE AND EXTEND TO THE THEORETICAL GORE MARKINGS.
3. ON ENTERING RAMP, THE DWLL SHALL BEGIN AT THE END OF THE THEORETICAL GORE MARKINGS AND SHALL EXTEND HALF THE TOTAL LENGTH OF THE RAMP INCLUDING THE TAPER.
4. ITEM 627.941 PAVEMENT MARKING TAPE FOR DWLL SHALL BE INSTALLED IN AN "IN-AND-OUT" GROOVING PATTERN. SEE DETAIL THIS SHEET.
5. CONTRACTOR SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF THE TAPE. ANY CHANGES TO INSTALLATION PROCEDURES SHALL BE APPROVED THE RESIDENT ENGINEER.

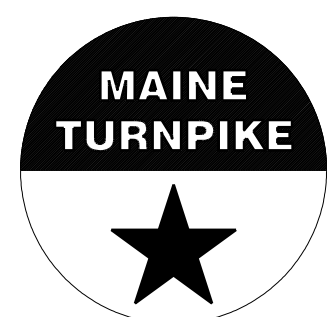
PERMANENT PAVEMENT  
MARKINGS WITH TAPE  
(ITEM 627.941 PAVEMENT MARKING TAPE)

Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.					
	By	Date		By	Date
	Designed	THG 10\21		Checked	JRH 10\21
	Drawn	CHL 10\21		In Charge of	JRH 10\21

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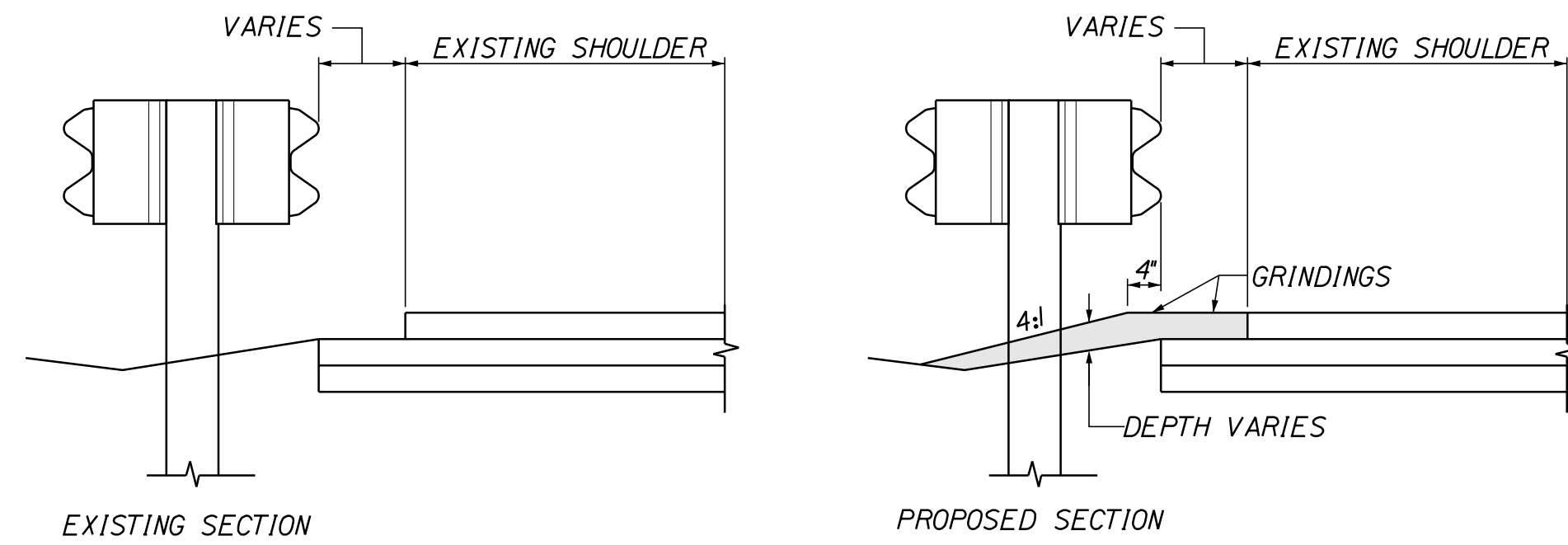
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

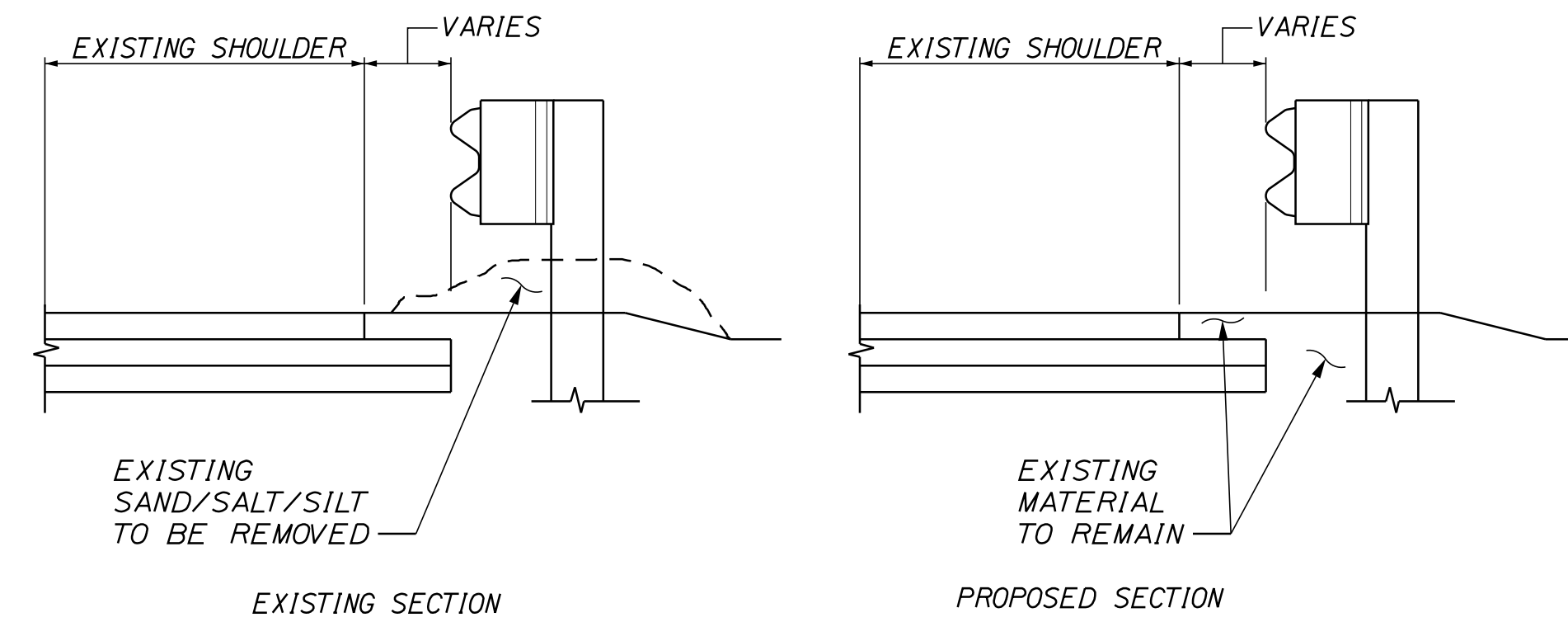
EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
STRIPING DETAILS  
(2 OF 2)

SHEET NUMBER: DT-05  
CONTRACT:2022.02  
23 OF 56

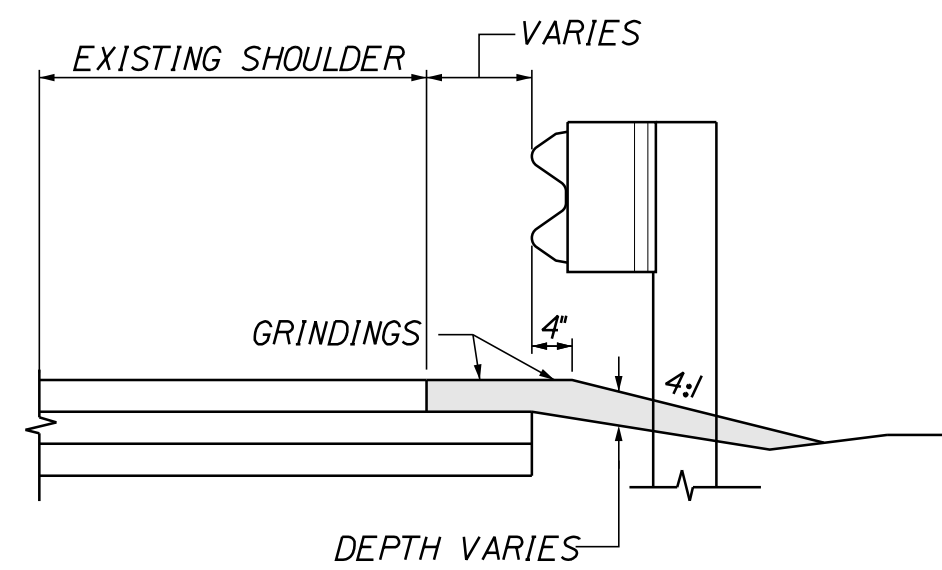
Date: 2/28/2022



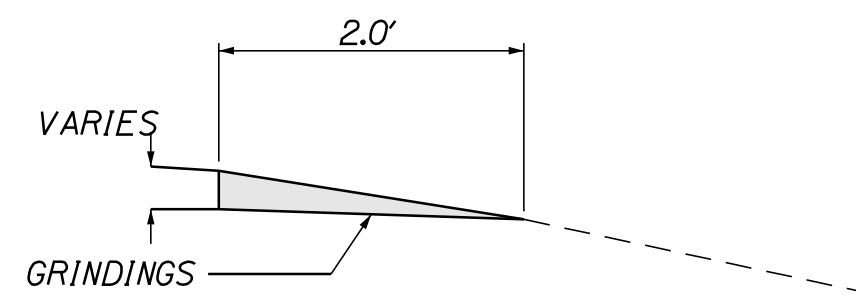
BERM DROPOFF CORRECTION WITH GUARDRAIL MEDIAN GUARDRAIL



BERM CORRECTION WITH SAND REMOVAL



BERM DROPOFF CORRECTION WITH GUARDRAIL



BERM DROPOFF CORRECTION WITHOUT GUARDRAIL

**NOTES:**

1. BERM DROPOFF CORRECTION WILL BE PLACED AT ALL LOCATIONS UNLESS OTHERWISE DIRECTED BY THE RESIDENT.
2. BERM DROPOFF CORRECTION OF 3 INCHES OR MORE SHALL BE PLACED PRIOR TO SHIFTING TRAFFIC TO THE LANE ADJACENT TO THE SHOULDER REQUIRING CORRECTION.
3. BERM DROPOFF CORRECTION WILL BE PAID UNDER ITEM 470.08. BERM CORRECTION WILL BE PAID UNDER ITEM 470.081.

Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION

BERM DROPOFF CORRECTION DETAILS

SHEET NUMBER: DT-06

CONTRACT: 2022.02

24 OF 56

GUARDRAIL EARTHWORK AND PAVEMENT REPAIR NOTES

1. ALL EARTHWORK AND PAVEMENT REPAIRS ASSOCIATED WITH GUARDRAIL INSTALLATIONS AND/OR MODIFICATIONS FOR THIS CONTRACT SHALL BE INCIDENTAL TO THE GUARDRAIL ITEMS UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS DUE TO THE WORK PERFORMED UNDER THIS CONTRACT FOR GUARDRAIL REPAIRS, MODIFICATION AND/OR INSTALLATIONS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION. GRASSED AREAS SHALL RECEIVE 4" OF LOAM, SEED, FERTILIZER AND MULCH. IN PAVED AREAS, SUBBASE GRAVEL SHALL BE REPLACED AND RECOMPACTED WITH MAINE DOT TYPE-D GRAVEL AND HOT MIX ASPHALT TO A THICKNESS TO MATCH SURROUNDING PAVEMENT.
3. COMPACTION OF EARTH AND/OR SUBBASE GRAVEL AROUND GUARDRAIL POSTS DISTURBED DURING THE WORK IS REQUIRED. ALL POSTS SHALL BE PLUMB AFTER COMPACTION.
4. EXCAVATION NECESSARY TO MAINTAIN DRAINAGE WAYS OUTSIDE OF THE EXISTING WIDENING OR THE SHOULDER WIDENING WORK AREA SHALL BE PAID FOR UNDER ITEM 631.12 ALL PURPOSE EXCAVATOR AS APPROVED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL SHALL BE USED TO GRADE ANY PROPOSED SLOPE AREA OUTSIDE OF 1:1 SLOPE LIMIT OR USED TO FLATTEN SLOPES OUTSIDE THE WORK AREA AS APPROVED BY THE RESIDENT. PLACEMENT AND COMPACTION OF THE EXCAVATED MATERIAL WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
5. ANY COMMON BORROW NECESSARY TO CONSTRUCT SHOULDER WIDENING SHALL COME FROM EXCAVATION WITHIN PROJECT LIMITS AND NO SEPARATE PAYMENT WILL BE MADE.
6. SLOPES CONSTRUCTED FROM THE ABOVE NOTED EXCAVATED MATERIAL SHALL BE LOAMED, SEEDED AND MULCHED. LOAM, SEED AND MULCH WILL NOT BE MEASURED FOR PAYMENT AND SHALL BE INCIDENTAL TO ITEM 606.755.
7. ANY REQUIRED CLEARING TO MODIFY WIDENED SHOULDER SHALL BE PAID UNDER ITEM 201.11 - CLEARING.

GUARDRAIL INSTALLATION AND MODIFICATION NOTES


1. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION AND/OR MODIFICATION OF ANY AND ALL GUARDRAIL COMPONENTS TO BE INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IF THE CONTRACTOR DISCOVERS CONFLICTS OR IRREGULARITIES OF ANY SORT BETWEEN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THESE CONTRACT DOCUMENTS.
2. THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASH END TREATMENT ON ALL GUARDRAIL ENDS IN ALL WORK AREAS AT THE END OF EACH DAY. THE CONTRACTOR SHALL ENSURE THAT ENOUGH TIME EXISTS IN THE WORK DAY TO COMPLETE ALL MODIFICATIONS AND/OR INSTALLATIONS TO END TERMINALS. THE CONTRACTOR SHALL ENSURE THAT ALL PARTS AND MANPOWER ARE ON-SITE PRIOR TO UNDERTAKING ANY GUARDRAIL MODIFICATIONS.
3. EXISTING GUARDRAIL NOTED TO BE ADJUSTED SHALL BE ADJUSTED TO 30" (-0", -1/2") HEIGHT. GUARDRAIL HEIGHT SHALL BE MEASURED FROM THE EDGE OF PAVEMENT WHEN WITHIN 2 FEET. IF GUARDRAIL IS OFFSET FROM EDGE OF PAVEMENT GREATER THAN 2 FEET, THEN HEIGHT OF RAIL SHALL BE MEASURED AT GROUND ELEVATION ADJACENT TO EACH POST BELOW THE RAIL TO THE TOP OF GUARDRAIL AND AFTER FINAL GRADING OF SHOULDER.
4. PROPOSED GUARDRAIL SHALL BE INSTALLED TO THE HEIGHTS SHOWN IN THE GUARDRAIL DETAILS.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CUT BOLTS, DISCARDED PARTS, TRASH, PAVEMENT DEBRIS, ETC., AFTER COMPLETING GUARDRAIL MODIFICATIONS AND/OR INSTALLATIONS.
6. CONNECTIONS FOR PROPOSED RAIL TO EXISTING RAIL SHALL BE INCIDENTAL TO THE INSTALLATION OF PROPOSED GUARDRAIL.
7. SOIL ANCHOR TUBES INSTALLED AS PART OF CAT, FLEAT OR TRAILING TERMINAL ENDS SHALL NOT PROTRUDE FROM THE GROUND MORE THAN 3/8". ADDITIONAL SITE GRADING MAY BE REQUIRED TO ADJUST SOIL TUBE REVEAL AND IF REQUIRED SHALL NOT DIRECT STORMWATER SURFACE DRAINAGE TOWARDS THE SHOULDER OR TRAVEL WAY. ADDITIONAL SITE GRADING SHALL BE INCIDENTAL TO THE END TERMINAL INSTALLATION.
8. ALL DAMAGE TO GUARDRAIL COMPONENTS RESULTING FROM ADJUSTMENTS MADE TO THE GUARDRAIL SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE AUTHORITY.

Filename: ...:\00.HIGHWAY\MSTA\...Details.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date	By	Date
Designed	THG	10\21	Checked	JRH 10\21
Drawn	CHL	10\21	In Charge of	JRH 10\21

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 TEL (207) 887-3448  
 FAX (207) 883-3376

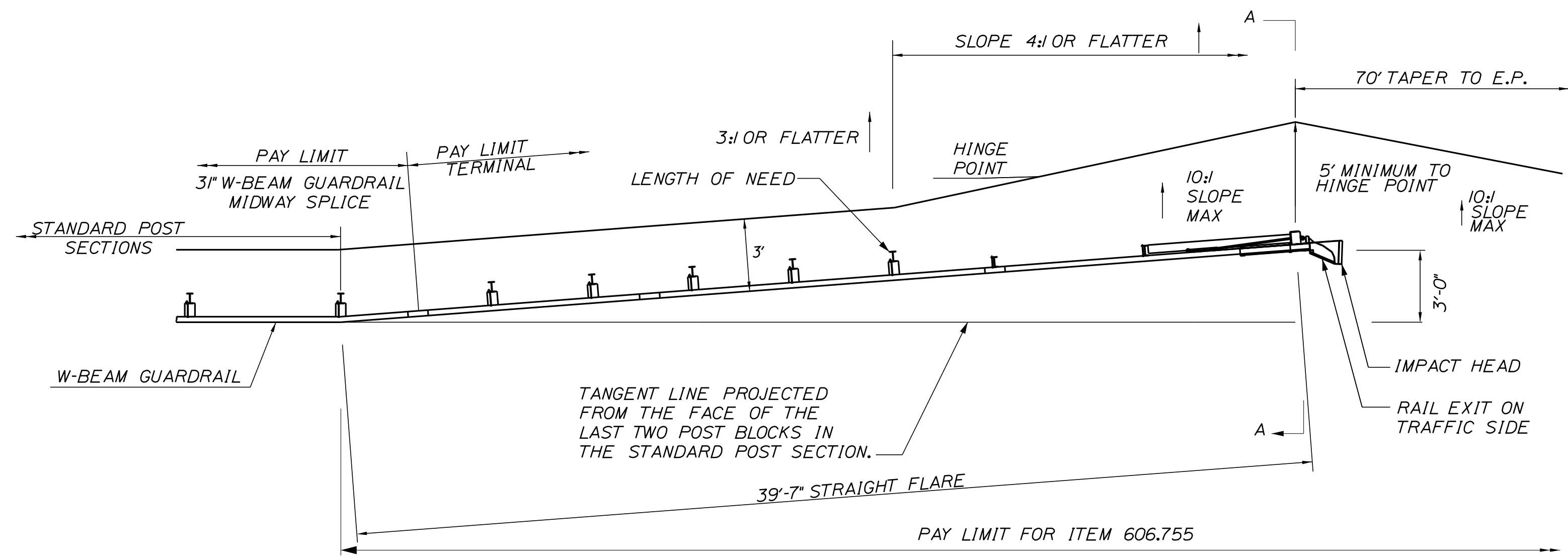


**THE GOLD STAR  
 MEMORIAL HIGHWAY**

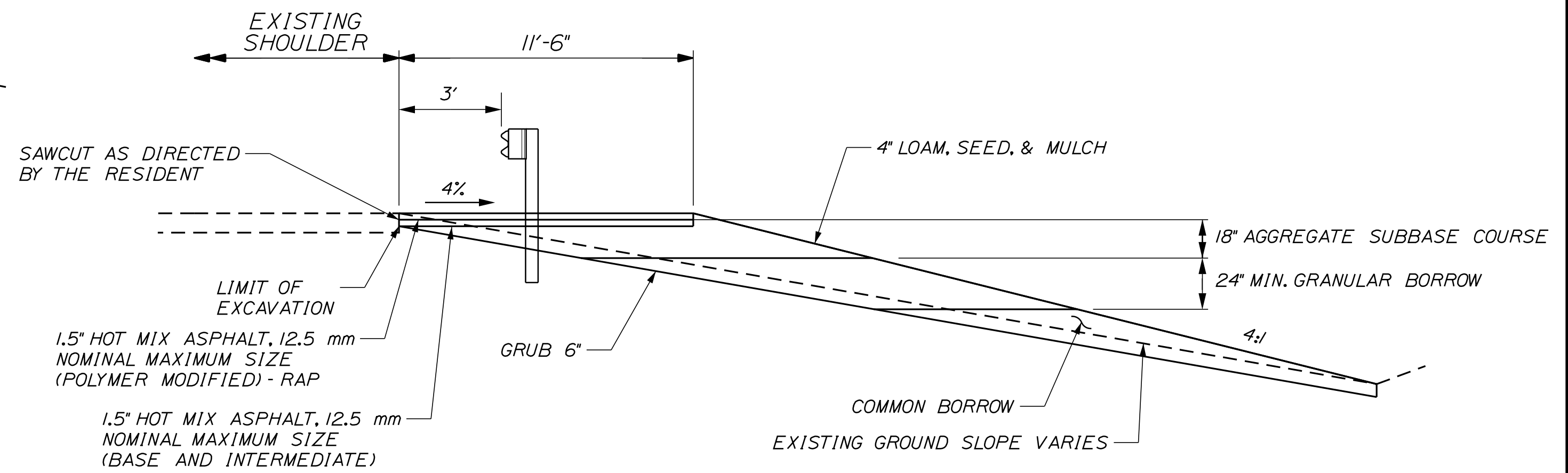
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 GUARDRAIL DETAIL  
 (1 OF 3)

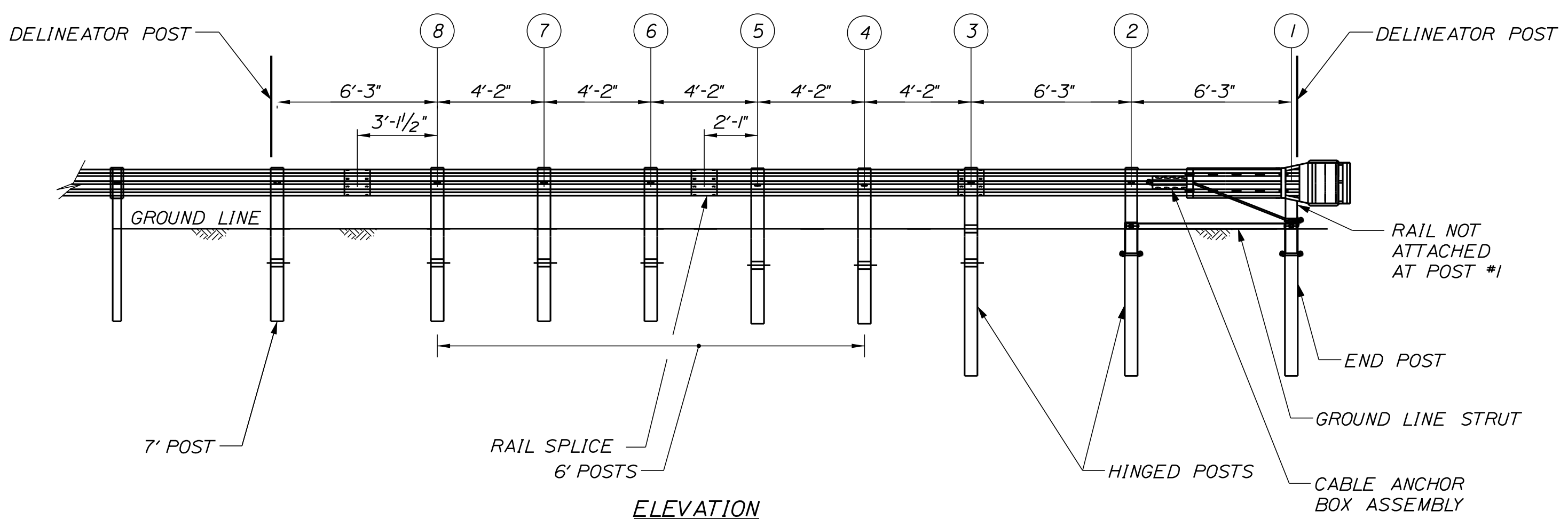
SHEET NUMBER: DT-07  
 CONTRACT: 2022.02  
 25 OF 56



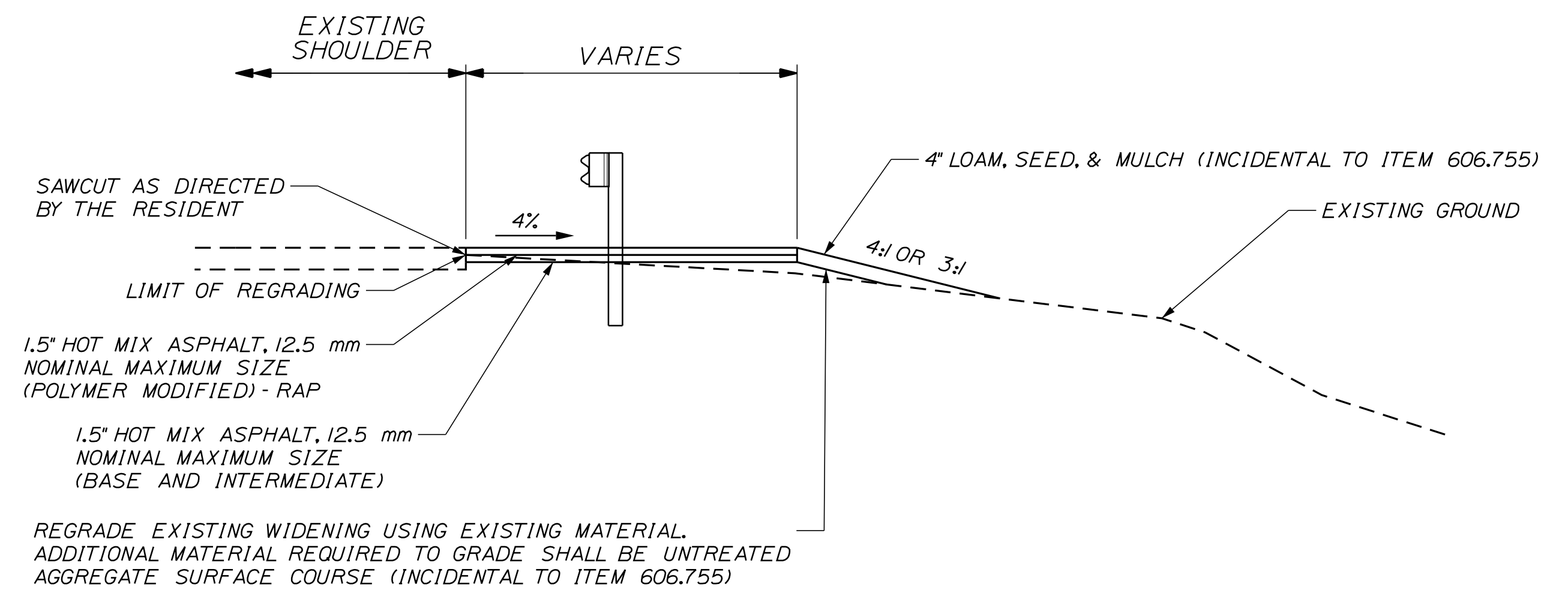
MODIFY WIDENED SHOULDER FOR GUARDRAIL TERMINAL - ITEM 606.755  
PLAN



SECTION A-A  
DITCH FILL DETAIL



31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL  
ELEVATION



SECTION A-A  
REGRADING

NOTES:

1. TERMINAL UNIT SHALL BE MFLEAT AND MASH CERTIFIED AS MANUFACTURED BY ROAD SYSTEMS INC.

Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

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

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

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Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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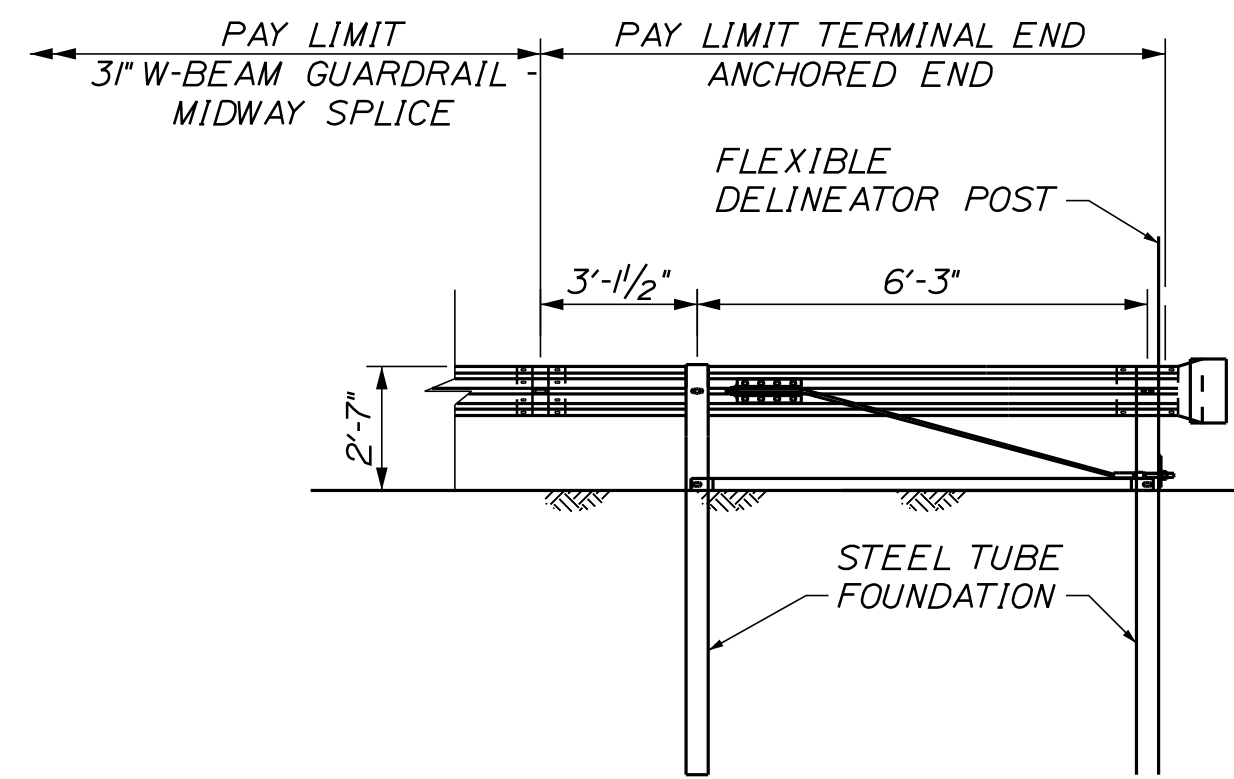
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
GUARDRAIL DETAILS  
(2 OF 3)

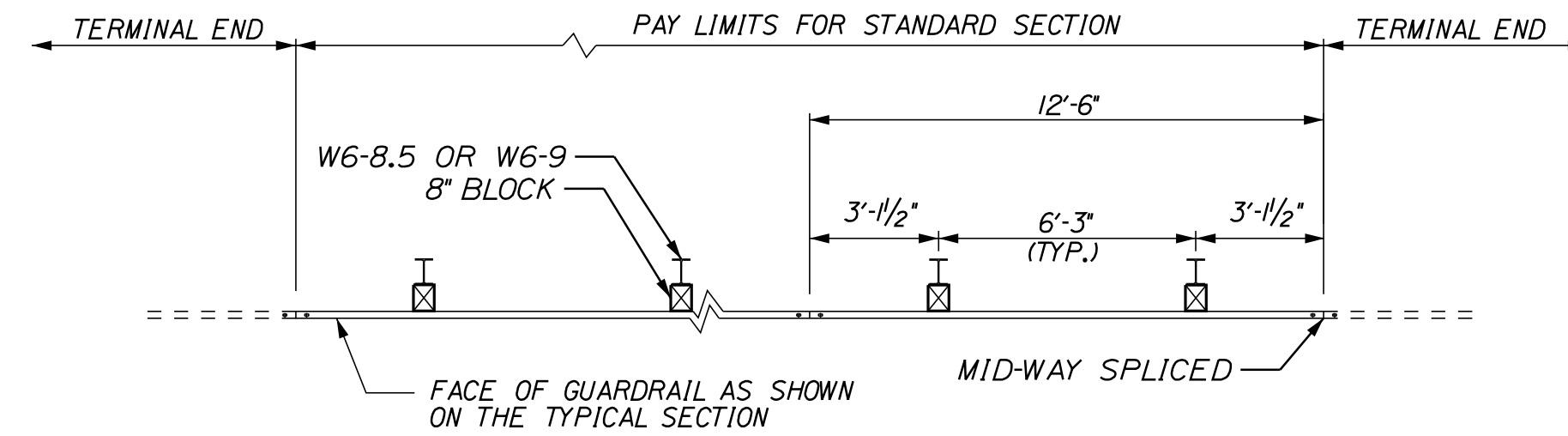
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CONTRACT:2022.02  
26 OF 56



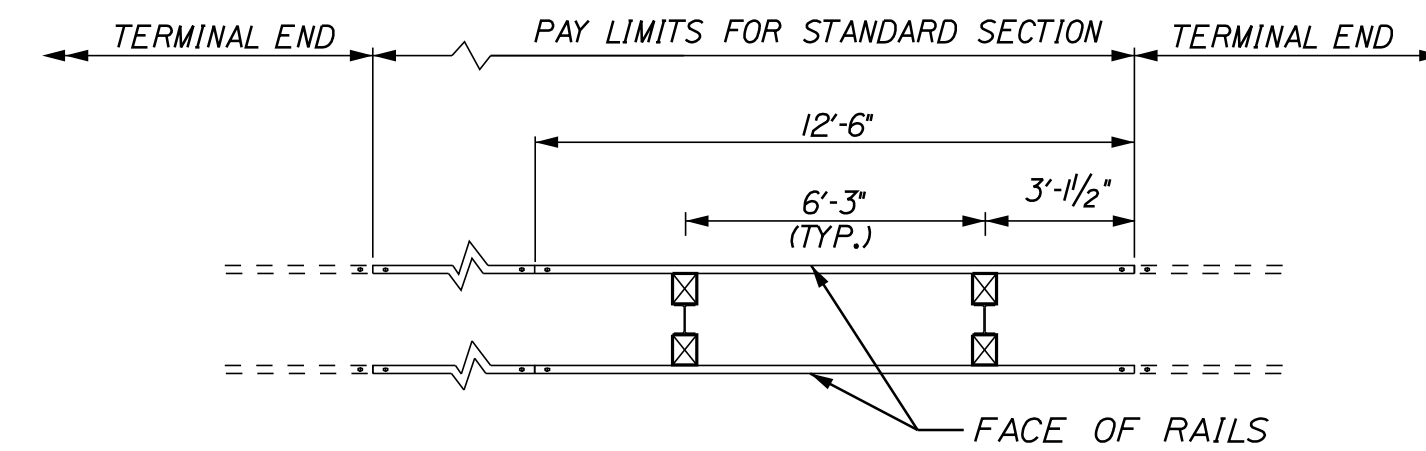


**TERMINAL END - ANCHORED END - 3" W-BEAM GUARDRAIL**  
(ITEM 606.1351)  
NOT TO SCALE

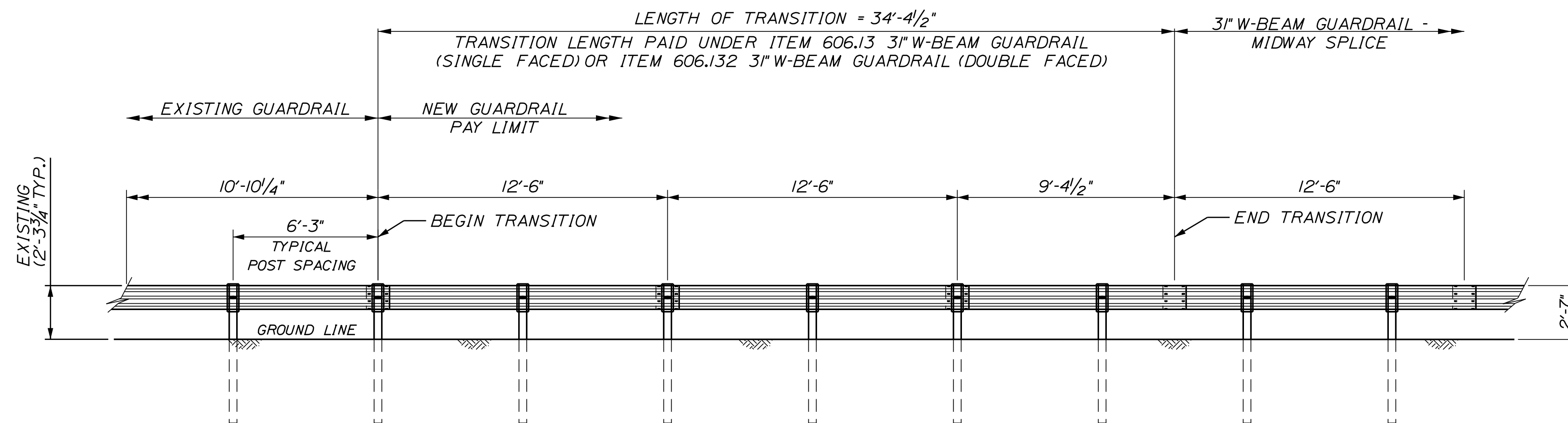
**NOTES:**  
1. THIS DETAIL MODIFIES THE SEW31 DRAWING SUCH THAT W-BEAM DOES NOT EXTEND BEYOND THE LAST GUARDRAIL POST. THE RWMI40 W-BEAM PANEL SHALL HAVE A LENGTH OF 9'-4 1/2" MEASURED FROM THE CENTER OF THE MIDWAY SPLICE TO THE CENTER OF THE LAST GUARDRAIL POST.



**PLAN - SINGLE FACED**



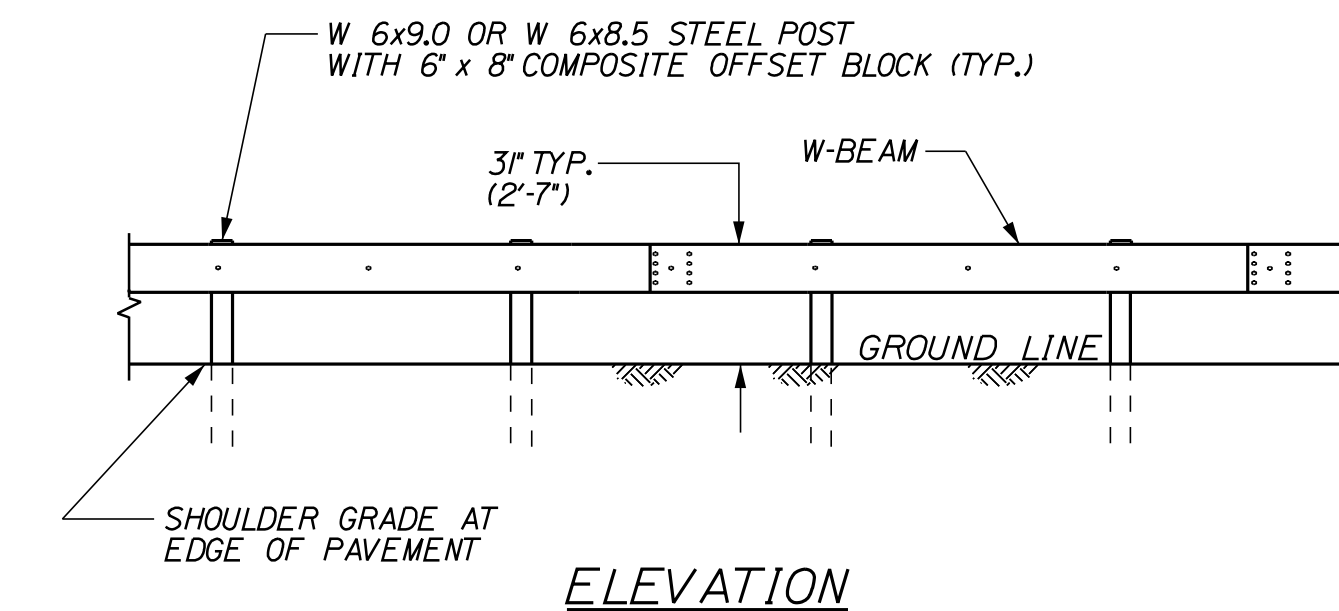
**PLAN - DOUBLE FACED**



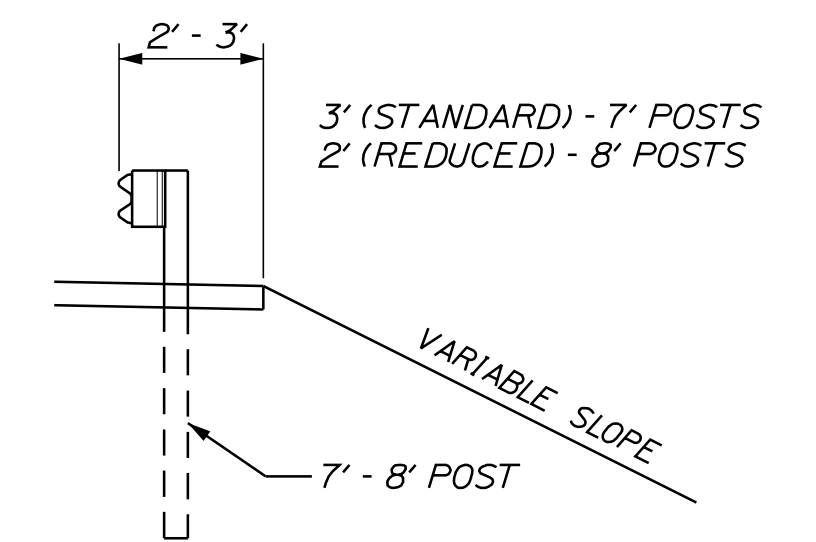
**TRANSITION FROM EXISTING GUARDRAIL TO 3" MID-WAY SPLICED GUARDRAIL**  
NOT TO SCALE

**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 POST SHALL BE 84" IN LENGTH UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
4. ALL NEW POSTS AND OFFSET BLOCK MATERIALS SHALL MATCH EXISTING UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.



**ELEVATION**



**CROSS-SECTION**

**3" W-BEAM GUARDRAIL - MID-WAY SPLICE (8" OFFSET BLOCKS)**  
(ITEMS 606.13, 606.132)  
NOT TO SCALE

**GENERAL GUARDRAIL INSTALLATION NOTES:**

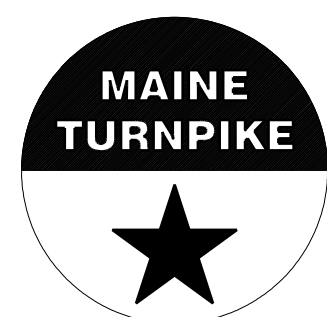
1. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION OF ALL GUARDRAIL COMPONENTS TO BE INSTALLED. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY CONFLICTS OR IRREGULARITIES BETWEEN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CONTRACT DOCUMENTS.
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'-1/2". 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. CONNECTION FOR PROPOSED RAIL TO EXISTING RAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.

Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.			
	By	Date	
	THG	10\21	
	Checked	JRH	10\21
	By	Date	
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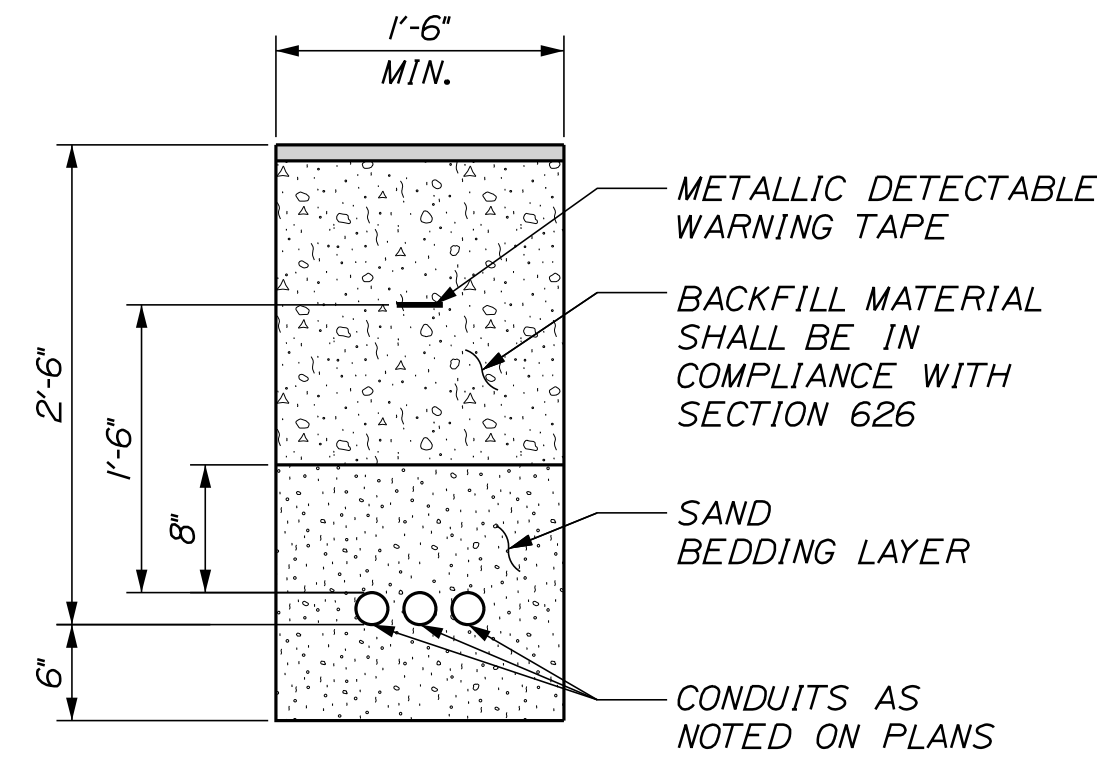
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

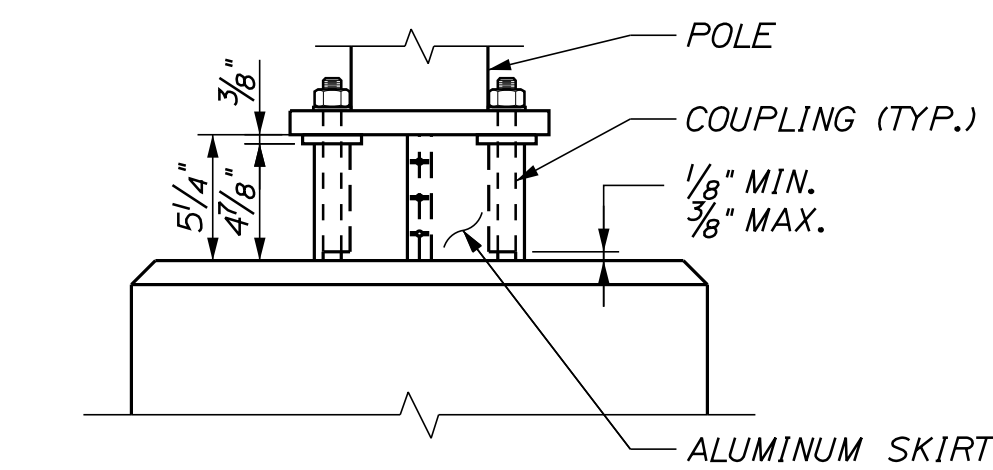
EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
GUARDRAIL DETAILS  
(3 OF 3)

SHEET NUMBER: DT-09  
CONTRACT: 2022.02  
27 OF 56

Date: 2/28/2022

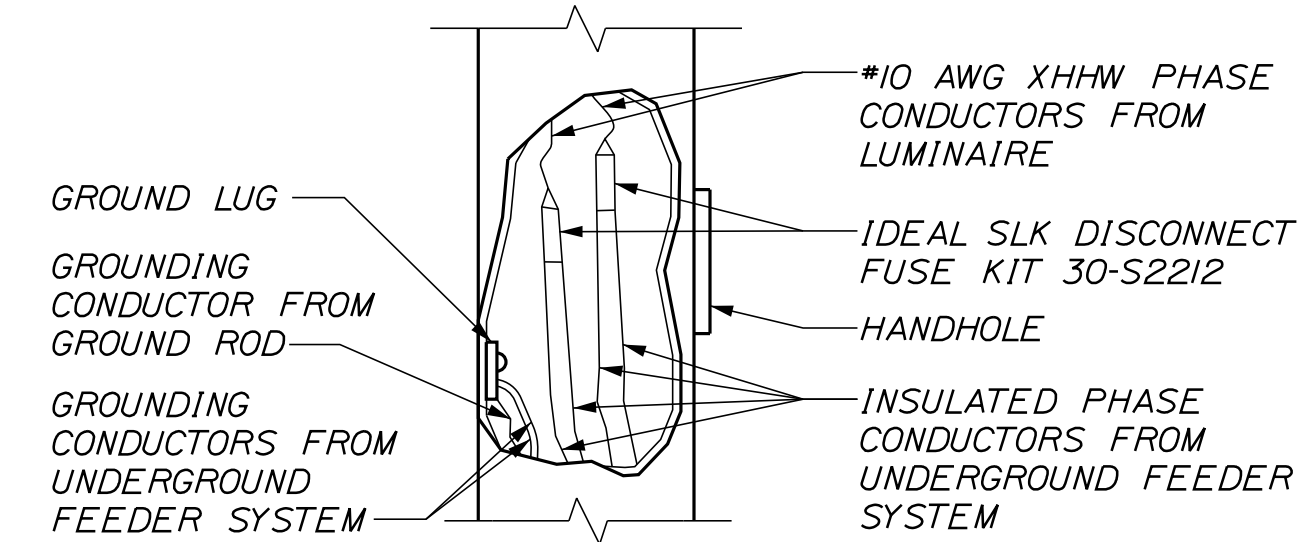


TRENCH CROSS SECTION



\* BREAKAWAY COUPLINGS SHALL BE REQUIRED ON ALL NEW LIGHT STANDARDS EXCEPT POLES MOUNTED ON BARRIER

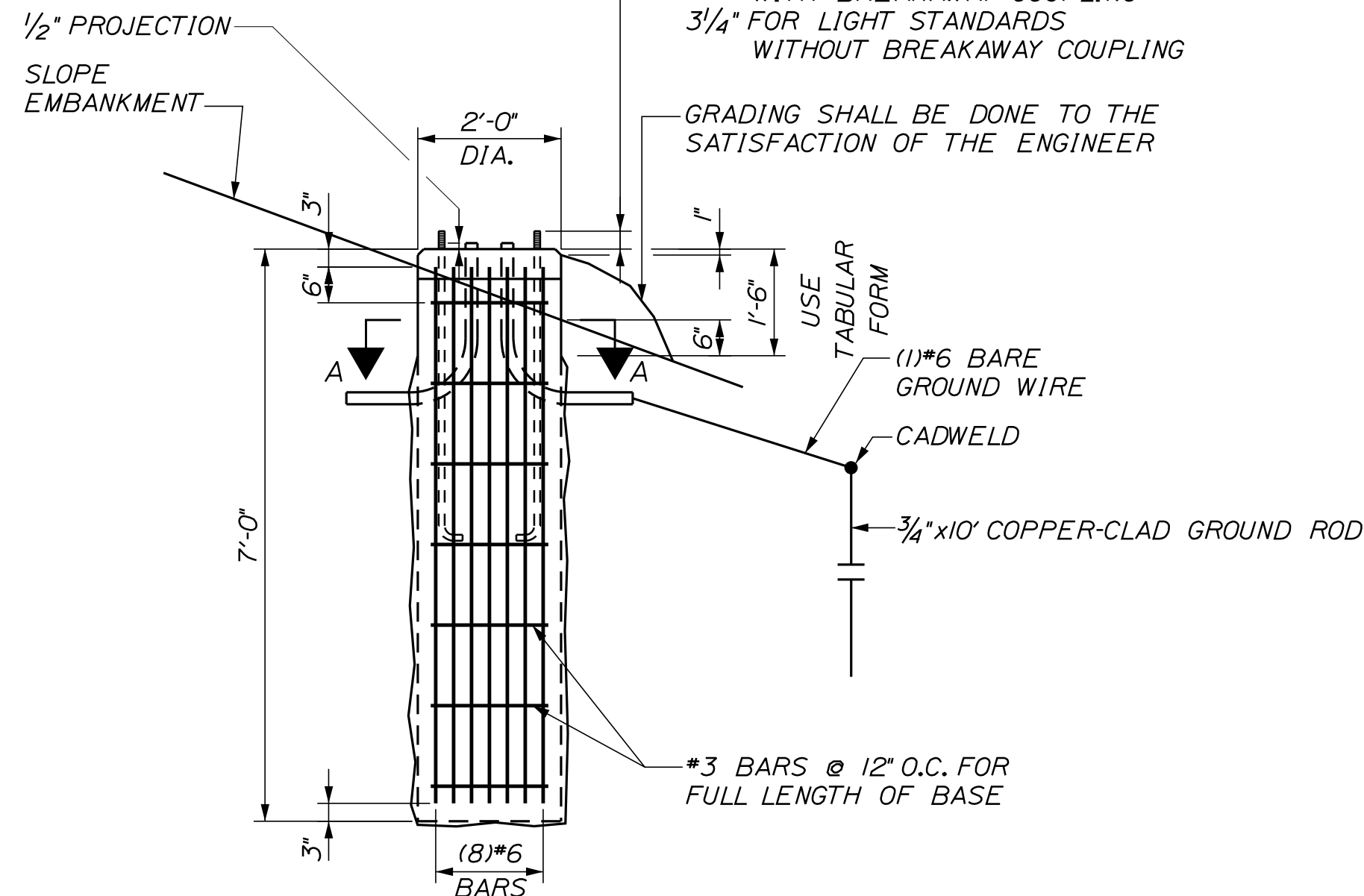
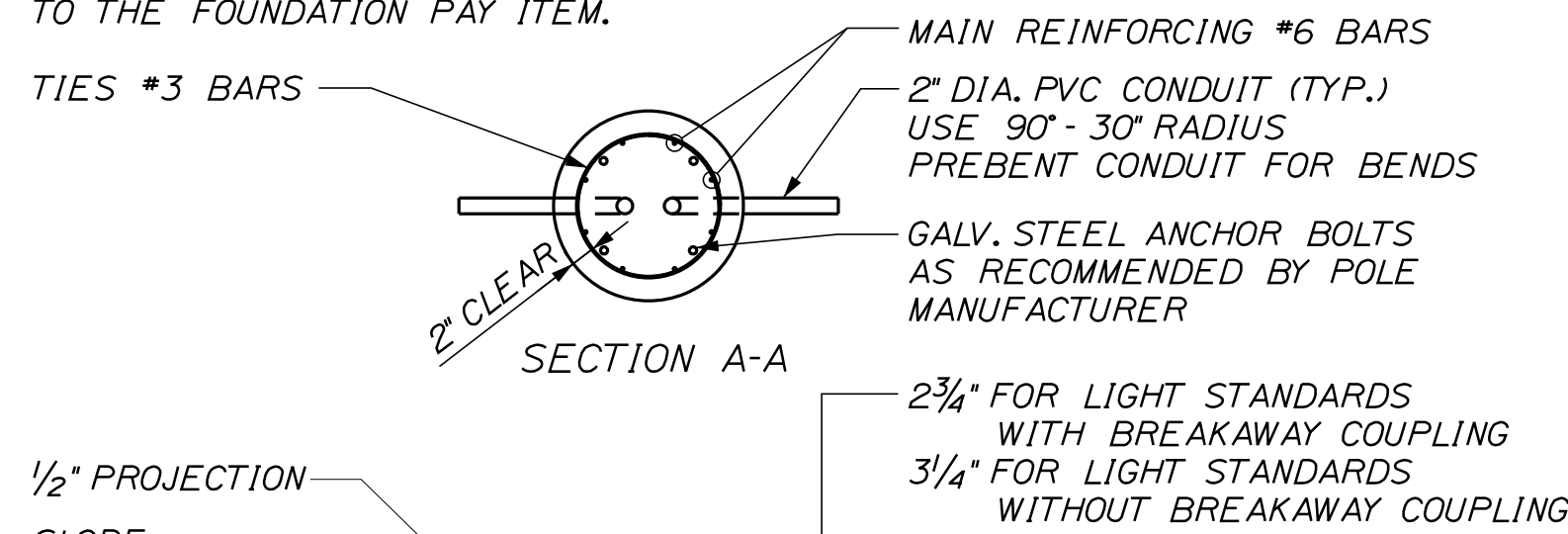
BREAKAWAY COUPLINGS AND SKIRT DETAIL



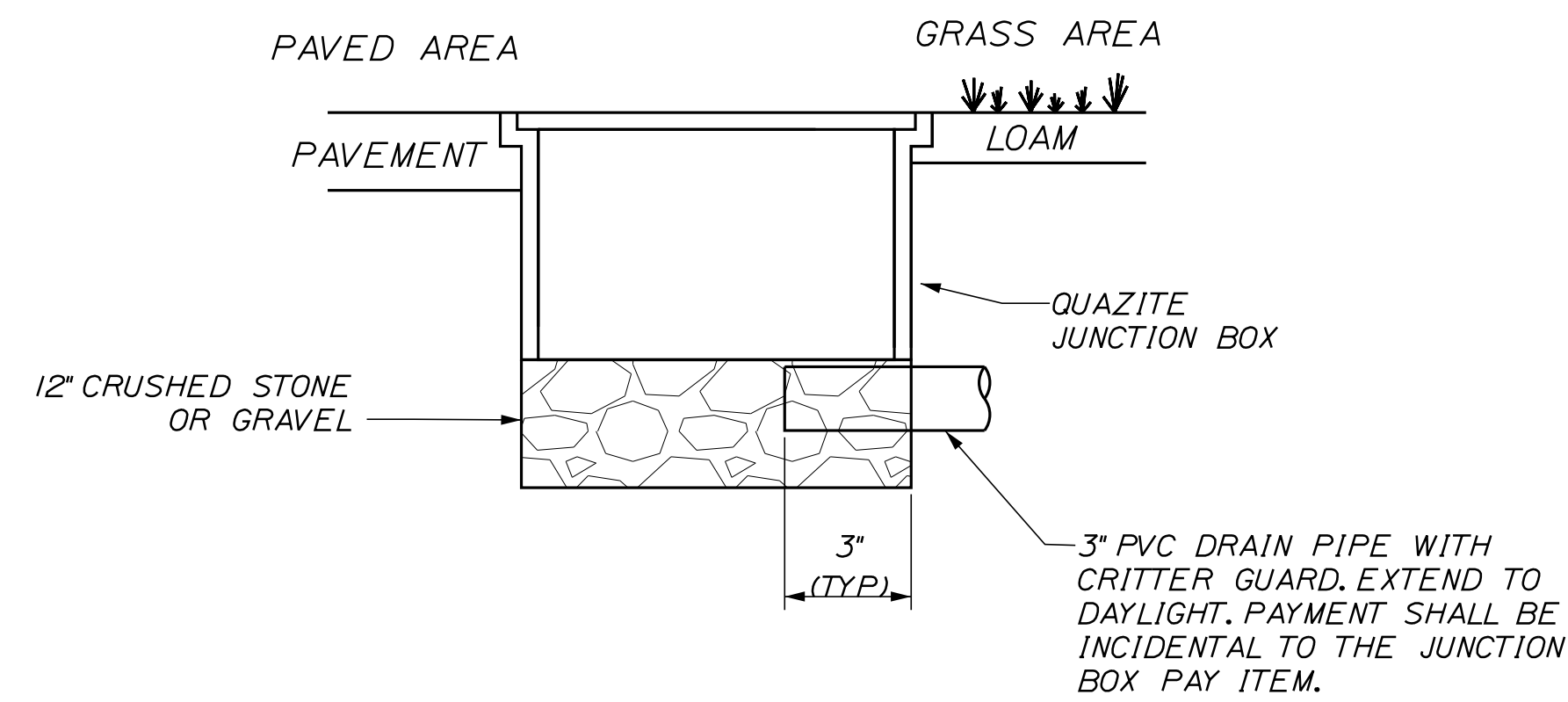
NOTE: CONTRACTOR SHALL PROVIDE 18" OF SLACK IN POLES

TYPICAL POLE WIRING DETAIL

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.



24 INCH FOUNDATION

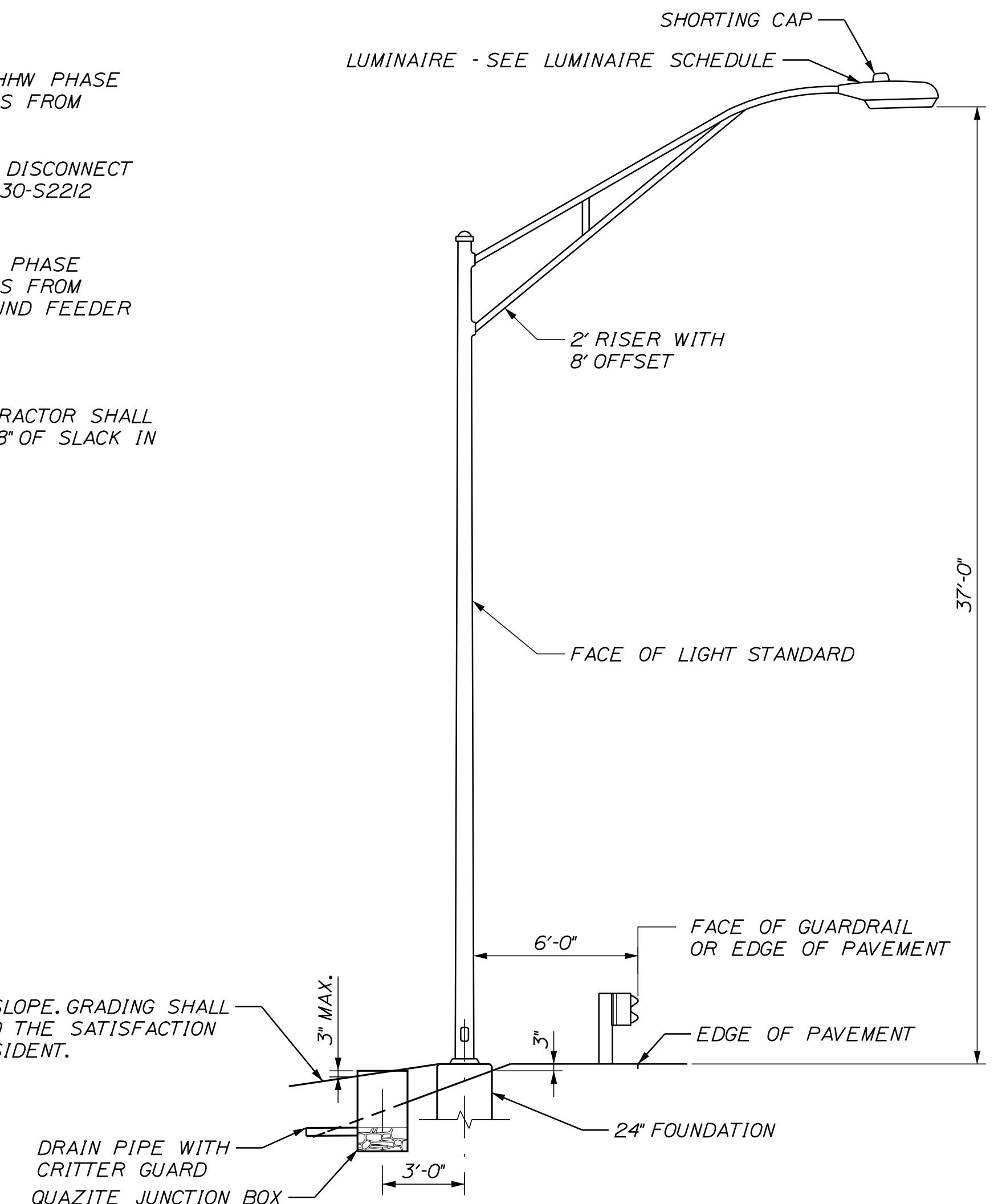


JUNCTION BOX COVER & FRAME

NOTES:

- INSTALL JUNCTION BOX ON GRADE.
- SPLICES IN BOX SHALL BE MADE WITH ILSCO USPA-350SS-DB DUAL RATED INSULATED, IN-LINE, WATERPROOF SPLICE, UL LISTED FOR DIRECT BURIAL (WIRE RANGE FROM 350KCMIL - 10AWG STRANDED) ONLY. PROVIDE ENOUGH SLACK IN THE WIRE TO ALLOW REMOVAL OF SPLICES AND NEATLY ARRANGE WIRE IN BOX.
- THE COVER SHALL BE LABELED WITH THE FUNCTION DESIGNATION IN 1" MIN TEXT AS FOLLOWS:  
 -"LIGHTING" FOR LIGHTING CONDUIT  
 -"COMMUNICATION" FOR COMMUNICATION CONDUITS  
 -"SIGNAL" FOR SIGNAL CONDUITS
- COVER SHALL BE HEAVY DUTY TYPE TIER 22 WITH (2) 1/2" STAINLESS STEEL PENTA-HEAD BOLTS.

PROPOSED SLOPE. GRADING SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT.



PLACEMENT OF LIGHT STANDARD

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**THE GOLD STAR MEMORIAL HIGHWAY**

EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION

LIGHTING DETAILS

SHEET NUMBER: DT-10

CONTRACT: 2022.02

28 OF 56

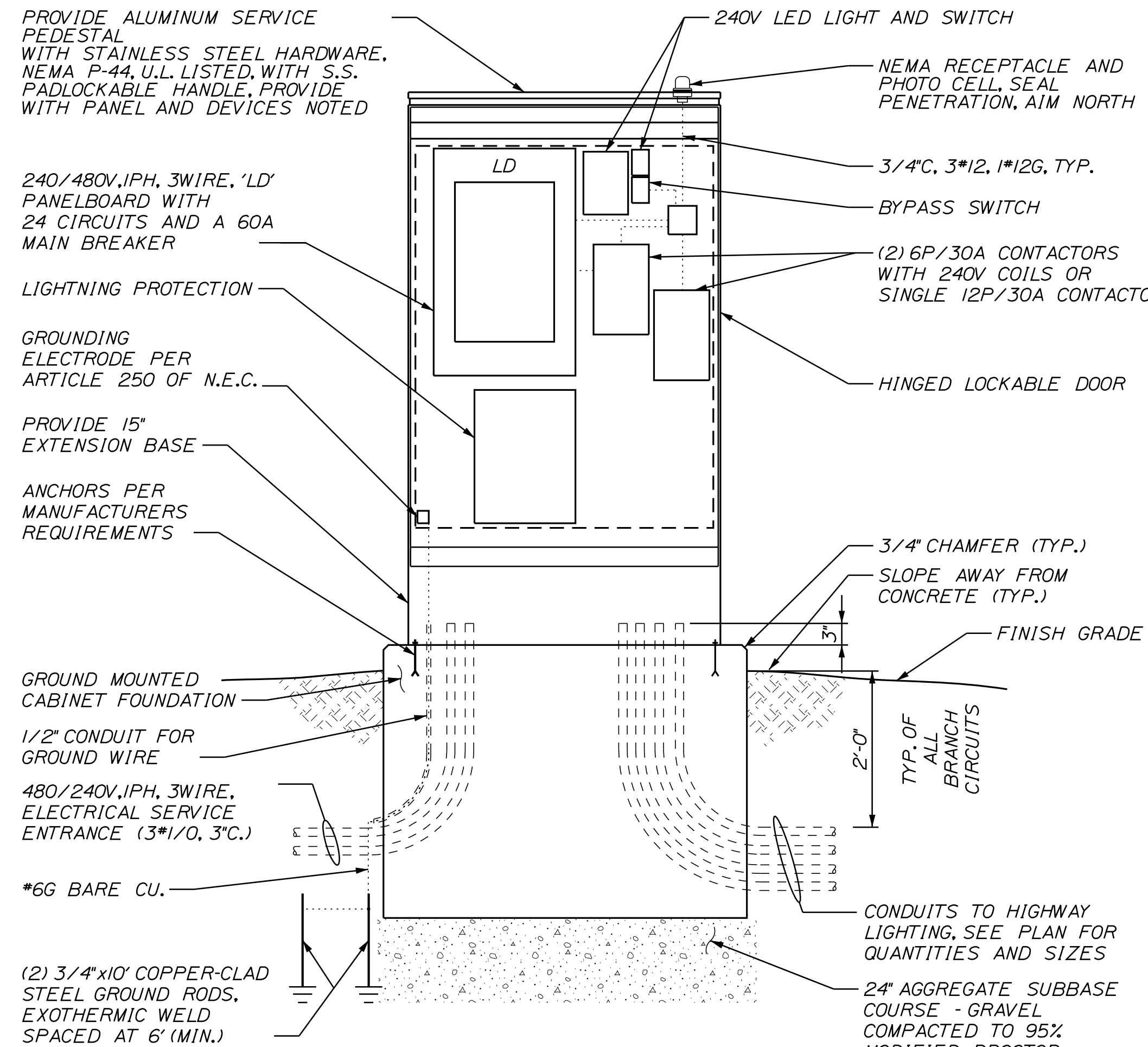
Filename: ...MSTA...Detail-Lighting\_01.dgn



**GENERAL NOTES: LIGHTING**

- HIGHWAY LIGHTING FIXTURE VOLTAGE SHALL BE 240 VOLTS. EXISTING HIGH MAST FIXTURES ARE 480V.
- LIGHTING FIXTURES SHALL BE IES FULL CUTOFF, LIGHT EMITTING DIODE (LED) FIXTURES.
- ALL FIXTURES SHALL BE GASKETED AND HAVE SURGE PROTECTION AND A DOUBLE FUSE KIT. ALL FIXTURES SHALL BE GRAY. IF DIFFERENT FIXTURES ARE PROPOSED, THEY SHALL BE IES FULL CUTOFF, TYPE 3 IES DISTRIBUTION TYPE AS NOTED IN THE LUMINAIRE SCHEDULE. LED LUMINAIRES, B.U.G. RATINGS SHALL BE EQUAL TO OR BETTER THAN THE DESIGNED FIXTURES. THE CONTRACTOR MUST DEMONSTRATE THAT THE PROPOSED FIXTURES WILL REASONABLY EQUAL THE LIGHT LEVELS AND DISTRIBUTIONS SHOWN ON THE PLANS, IN THE OPINION OF MTA.
- CONDUIT SHALL BE 3" MINIMUM, PVC SCHEDULE 80. MINIMUM BURIAL DEPTH FOR CONDUIT SHALL BE 30".
- A JUNCTION BOX/HANDHOLE SHALL BE INSTALLED AT EACH POLE. THE WIRING IN CONDUITS SHALL BE CONTINUOUS BETWEEN JUNCTION BOXES/HANDHOLES WITHOUT RUNNING SPLICES IN CONDUITS.
- UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL FURNISH TO MTA A SET OF AS-BUILT PLANS FOR FUTURE REFERENCE AND SYSTEM MAINTENANCE. PAYMENT FOR THE AS-BUILT PLANS SHALL BE INCIDENTAL TO THE LIGHTING ITEMS.
- ALL LIGHT BASES SHALL HAVE A GROUND ROD LOCATED ADJACENT TO THE POLE THAT IS BONDED TO THE GROUNDING CONDUCTOR. PAYMENT FOR THE GROUND ROD SHALL BE INCLUDED IN LIGHT POLE ITEM.
- LIGHT STANDARDS AND LUMINAIRES SHALL BE PROVIDED BY THE AUTHORITY AND PAID UNDER ITEM 634.2312 - CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE - SUPPLIED BY THE AUTHORITY AS NOTED IN SP 634.
- LIGHTING SERVICE PANEL SHALL BE MARKED WITH ARC FLASH HAZARD TYPE 1, 2, 3 OR 4 AND THE APPROPRIATE PPE REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING AN ARC FLASH STUDY.
- BREAKAWAY DEVICES FOR LIGHT POLES SHALL CONFORM TO THE LATEST VERSION OF "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND NCHRP REPORT 350. THE BREAKAWAY DEVICE SHALL BE DESIGNED SO THAT THE ANCHOR BOLTS WILL NOT BEND WHEN A VEHICLE HITS THE POLE. A FRANGIBLE COUPLING SUCH AS TRANSPORT POLE-SAFE 5000 SERIES (WITH A FEMALE ANCHOR), THE MANITOBA SAFETY BASE WITH REACTION PLATE, OR APPROVED EQUAL SHALL BE USED. BREAKAWAY DEVICES SHALL BE INSTALLED ON ALL POLES EXCEPT THOSE LOCATED ON BARRIERS.
- WIRE SHALL BE STRANDED COPPER XHHW-2, SIZE AS NOTED ON THE PLANS.
- FOUNDATIONS SHALL BE 24 INCH DIAMETER BY 7' HEIGHT FOUNDATIONS. PRECAST FOUNDATIONS MAY BE USED, AND IF USED SHALL INCLUDE CAST CONDUIT INSERTS.
- EXISTING INTERCHANGE LIGHTING IS INTENDED TO REMAIN OPERATIONAL UNTIL NEW LIGHTING IS ACTIVATED. IF NECESSARY TO REMOVE OR DEACTIVATE ANY LUMINAIRE BEFORE NEW LIGHTING IS ACTIVATED, WHEN APPROVED BY THE RESIDENT, TEMPORARY LIGHTING SHALL BE USED TO MAINTAIN ILLUMINATION AND WILL BE INCIDENTAL TO THE PERMANENT LIGHTING. ALL TEMPORARY LIGHTING SHALL BE PROTECTED OR LOCATED OUTSIDE OF THE CLEAR ZONE.
- AT EACH POLE, CONTRACTOR SHALL PROVIDE 18" OF EXTRA WIRE SLACK.
- FOR ALL CONDUIT RUNS FROM HANDHOLE TO POLE, THE CONTRACTOR SHALL INSTALL 3" WITH 2"10 AND 1"10GND.
- EXCAVATION AND AGGREGATE SUBBASE COURSE - GRAVEL ARE INCIDENTAL TO ITEM 626.38 - GROUND MOUNTED CABINET FOUNDATION.
- PREWIRED CONDUIT IS NOT ALLOWED.
- ALL DRILLED CONDUIT SHALL INCLUDE A TRACER WIRE. TRACER WIRE SHALL BE INCIDENTAL TO THE CONDUIT.
- PROVIDE 3" RIGID METAL CONDUIT AT RISER POLE UP TO 10 FT MIN. PAYMENT FOR RISER SHALL BE INCIDENTAL TO ITEM 634.1612 - HIGHWAY LIGHTING PANEL AND SERVICE UPGRADES.

BUS		100A		<b>PANEL No. LD</b>				LOCATION	LUND ROAD			
PANEL RATING		22KAIC		PROPOSED PANEL				MOUNTING	MOUNT IN P44 ENCLOSURE			
SUPPLY VOLTAGE		240V/480V		(INSTALLED UNDER CONTRACT)				DRAWING No.				
SERVICE		1 PHASE, 3 WIRE		2022.02)								
WIRING	COND	DESCRIPTION	VA OR W	BREAKER	CKT. NO	BUS CON	CKT. NO	BREAKER	VA OR W	DESCRIPTION	COND	WIRING
SEE SITE PLAN		LTS-EXISTING HHWY AT OFF RAMP	437	ØA ØB POLE A	2 / 20	1	x 2	1 20	ØA ØB	SPARE ( FUTURE HHWY LTS)		
		HM-25	437			3	x 4	1 20		SPARE ( FUTURE HHWY LTS)		
SEE SITE PLAN		LTS-HM-24 &27, HHWY 311,313, 315	1272		2 / 20	5		6 / 20		SPARE ( FUTURE HHWY LTS)		
SEE SITE PLAN		LTS-HM-24 &27, HHWY 312,314	1139			7	x 8			SPARE ( FUTURE HHWY LTS)		
SEE SITE PLAN		LTS-EXISTING HM'S AT PLAZA	873		2 / 20	9	x 10	2 / 20	1746	LTS - EXISTING HHWY		SEE SITE PLAN
		HM-22 & HM-23	873			11		12 /	1746	HM-HM-26, HM-28		
		SPARE			2 / 20	13	x 14	1 20		SPARE		
		SPARE				15	x 16	1 20		SPARE		
2#10, 1#10G	3/4"	LIGHTNING PROTECTION SPDS			2 / 30	17		18 1 20		SPARE		
		SPARE				19	x 20	1 20		SPARE		
2#12, 1#12G	3/4"	CONTROLS	100		1 20	21	x 22	1 20		SPARE		
2#12, 1#12G	3/4"	ENCLOSURE			1 15	23		24 1 20		SPARE		
TOTAL 1			2682	2449	TOTAL 2			1746	1746			
TOTAL 2			1746	1746								
TOTAL 1 + 2			4428	4195								
CONN. LOAD TOTAL			8622									
AMPERES			18									
<b>RECONNECT EXISTING HIGH MAST LIGHTING CKTS</b>												
				MAIN BREAKER		60A		MAIN LUGS		N/A		
				FEEDER ENTRANCE		TOP/BOTTOM		ENCLOSURE TYPE		NEMA 4X		
				FEEDER SIZE		3", 3#1/0		ACCESSORIES				
				SOURCE		EXISTING 240/480V TRANSFORMER						
				PANEL TYPE		DOOR-IN-DOOR						



**EXIT 36 NB OFF-RAMP SERVICE PANEL "LD"**

ROADWAY LUMINAIRE SCHEDULE					
LABEL	CATALOG NUMBER	DESCRIPTION	MINIMUM LUMENS	LIGHT LOSS FACTOR	MAXIMUM WATTS
A-LD	AMERICAN ELECTRIC ATB0 B304 MVOLT R3 3K NL	LED COBRAHEAD, 3000K CCT, IES TYPE 3 DISTRIBUTION	17000	0.67	124

Date: 2/28/2022

Filename: ...MSTA...Detail-Lighting\_02.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

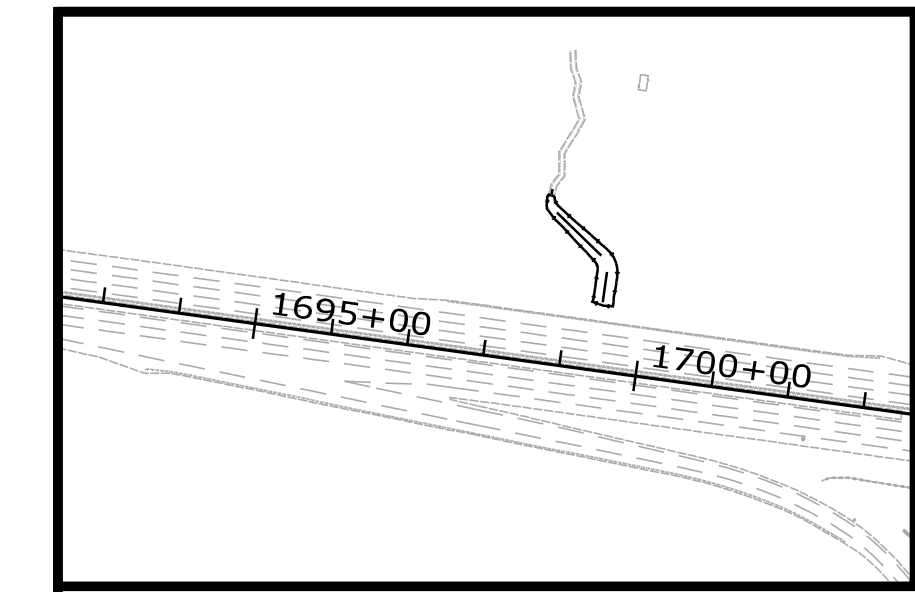
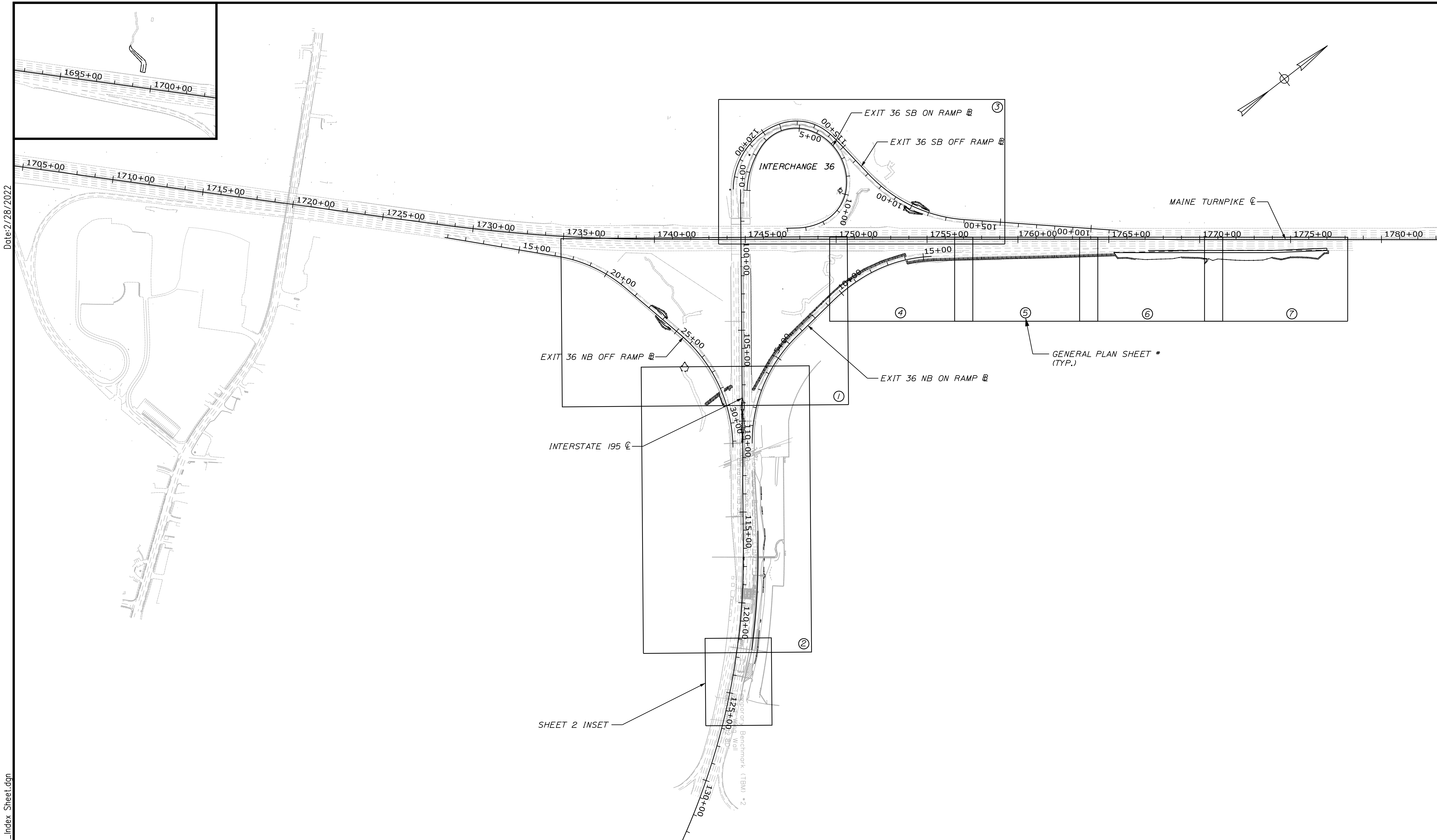
EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION

LIGHTING NOTES, SCHEDULES, AND DETAILS

SHEET NUMBER: DT-11

CONTRACT: 2022.02

29 OF 56



Date: 2/28/2022

Filename: ... \HIGHWAY \MSTA\... \Index Sheet.dgn

Scale: Scale of Feet

No.	Revision	By	Date

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**THE GOLD STAR MEMORIAL HIGHWAY**

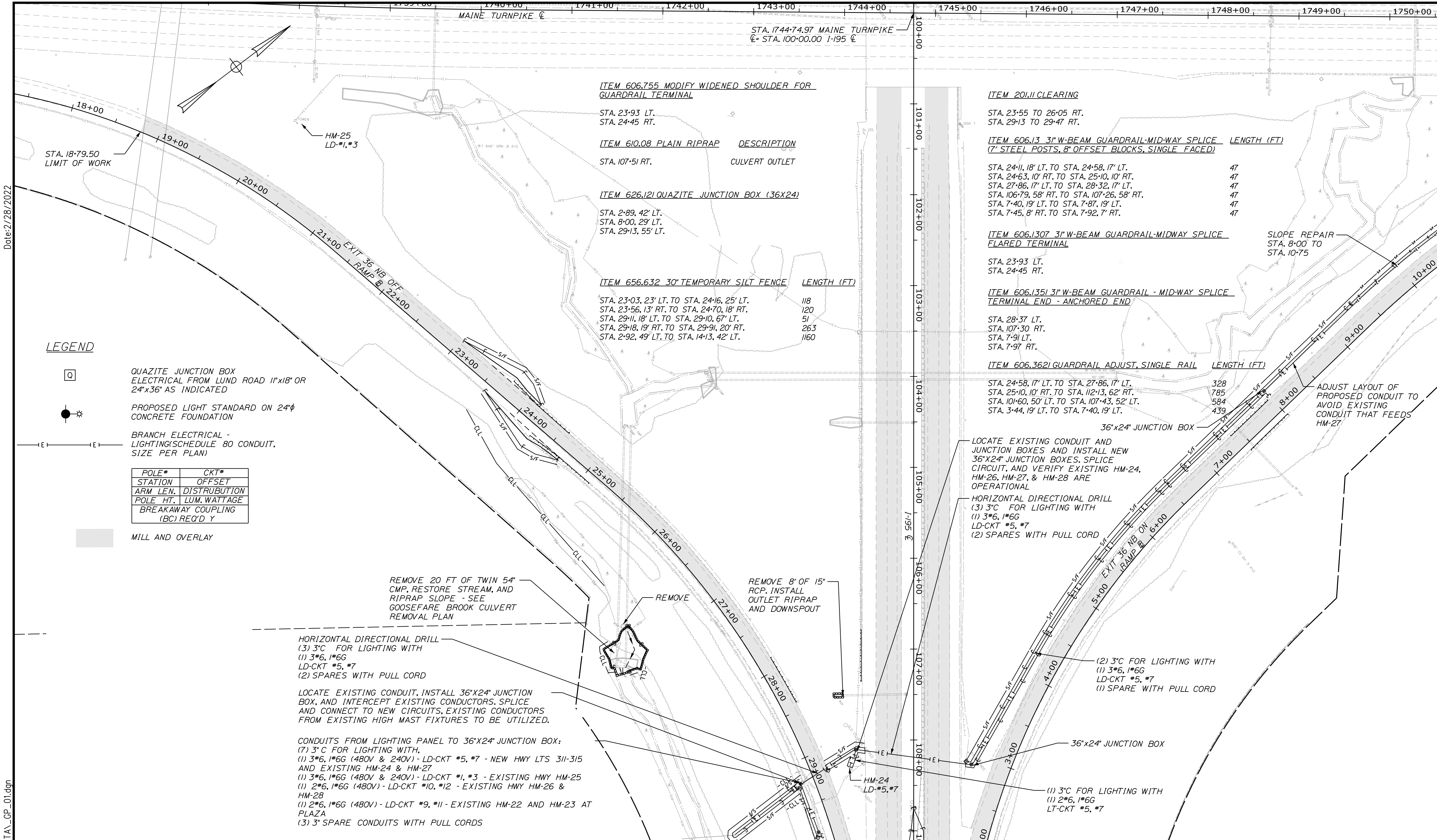
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION

INDEX PLAN

SHEET NUMBER: GP-01  
 CONTRACT: 2022.02  
 30 OF 56





**LEGEND**

- QUAZITE JUNCTION BOX ELECTRICAL FROM LUND ROAD 11"x18" OR 24"x36" AS INDICATED
  - PROPOSED LIGHT STANDARD ON 24"Ø CONCRETE FOUNDATION
  - BRANCH ELECTRICAL - LIGHTING (SCHEDULE 80 CONDUIT, SIZE PER PLAN)
- | POLE*                           | CKT#         |
|---------------------------------|--------------|
| STATION                         | OFFSET       |
| ARM LEN.                        | DISTRIBUTION |
| POLE HT.                        | LUM. WATTAGE |
| BREAKAWAY COUPLING (BC) REQ'D Y |              |
- MILL AND OVERLAY

REMOVE 20 FT OF TWIN 54" CMP, RESTORE STREAM, AND RIPRAP SLOPE - SEE GOOSEFARE BROOK CULVERT REMOVAL PLAN

REMOVE 8' OF 15" RCP, INSTALL OUTLET RIPRAP AND DOWNSPOUT

HORIZONTAL DIRECTIONAL DRILL  
 (3) 3" C FOR LIGHTING WITH  
 (1) 3\*6, 1\*6G  
 LD-CKT #5, #7  
 (2) SPARES WITH PULL CORD

LOCATE EXISTING CONDUIT, INSTALL 36"x24" JUNCTION BOX, AND INTERCEPT EXISTING CONDUCTORS. SPLICE AND CONNECT TO NEW CIRCUITS. EXISTING CONDUCTORS FROM EXISTING HIGH MAST FIXTURES TO BE UTILIZED.

CONDUITS FROM LIGHTING PANEL TO 36"x24" JUNCTION BOX:  
 (7) 3" C FOR LIGHTING WITH,  
 (1) 3\*6, 1\*6G (480V & 240V) - LD-CKT #5, #7 - NEW HWY LTS 311-315 AND EXISTING HM-24 & HM-27  
 (1) 3\*6, 1\*6G (480V & 240V) - LD-CKT #1, #3 - EXISTING HWY HM-25  
 (1) 2\*6, 1\*6G (480V) - LD-CKT #10, #12 - EXISTING HWY HM-26 & HM-28  
 (1) 2\*6, 1\*6G (480V) - LD-CKT #9, #11 - EXISTING HM-22 AND HM-23 AT PLAZA  
 (3) 3" SPARE CONDUITS WITH PULL CORDS

**ITEM 20111 CLEARING**  
 STA. 23+55 TO 26+05 RT.  
 STA. 29+13 TO 29+47 RT.

**ITEM 606.13 3" W-BEAM GUARDRAIL-MID-WAY SPLICE** LENGTH (FT)  
 (7" STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)

STA. 24+11, 18' LT. TO STA. 24+58, 17' LT.	47
STA. 24+63, 10' RT. TO STA. 25+10, 10' RT.	47
STA. 27+86, 17' LT. TO STA. 28+32, 17' LT.	47
STA. 106+79, 58' RT. TO STA. 107+26, 58' RT.	47
STA. 7+40, 19' LT. TO STA. 7+87, 19' LT.	47
STA. 7+45, 8' RT. TO STA. 7+92, 7' RT.	47

**ITEM 606.1307 3" W-BEAM GUARDRAIL-MIDWAY SPLICE**  
 FLARED TERMINAL

STA. 23+93 LT.  
 STA. 24+45 RT.

**ITEM 606.1351 3" W-BEAM GUARDRAIL - MID-WAY SPLICE**  
 TERMINAL END - ANCHORED END

STA. 28+37 LT.  
 STA. 107+30 RT.  
 STA. 7+91 LT.  
 STA. 7+97 RT.

**ITEM 606.3621 GUARDRAIL ADJUST, SINGLE RAIL** LENGTH (FT)

STA. 24+58, 17' LT. TO STA. 27+86, 17' LT.	328
STA. 25+10, 10' RT. TO STA. 112+13, 62' RT.	785
STA. 10+60, 50' LT. TO STA. 107+43, 52' LT.	584
STA. 3+44, 19' LT. TO STA. 7+40, 19' LT.	439

Date: 2/28/2022  
 File name: ...:\00\HIGHWAY\MSTA\GP\_01.dgn

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
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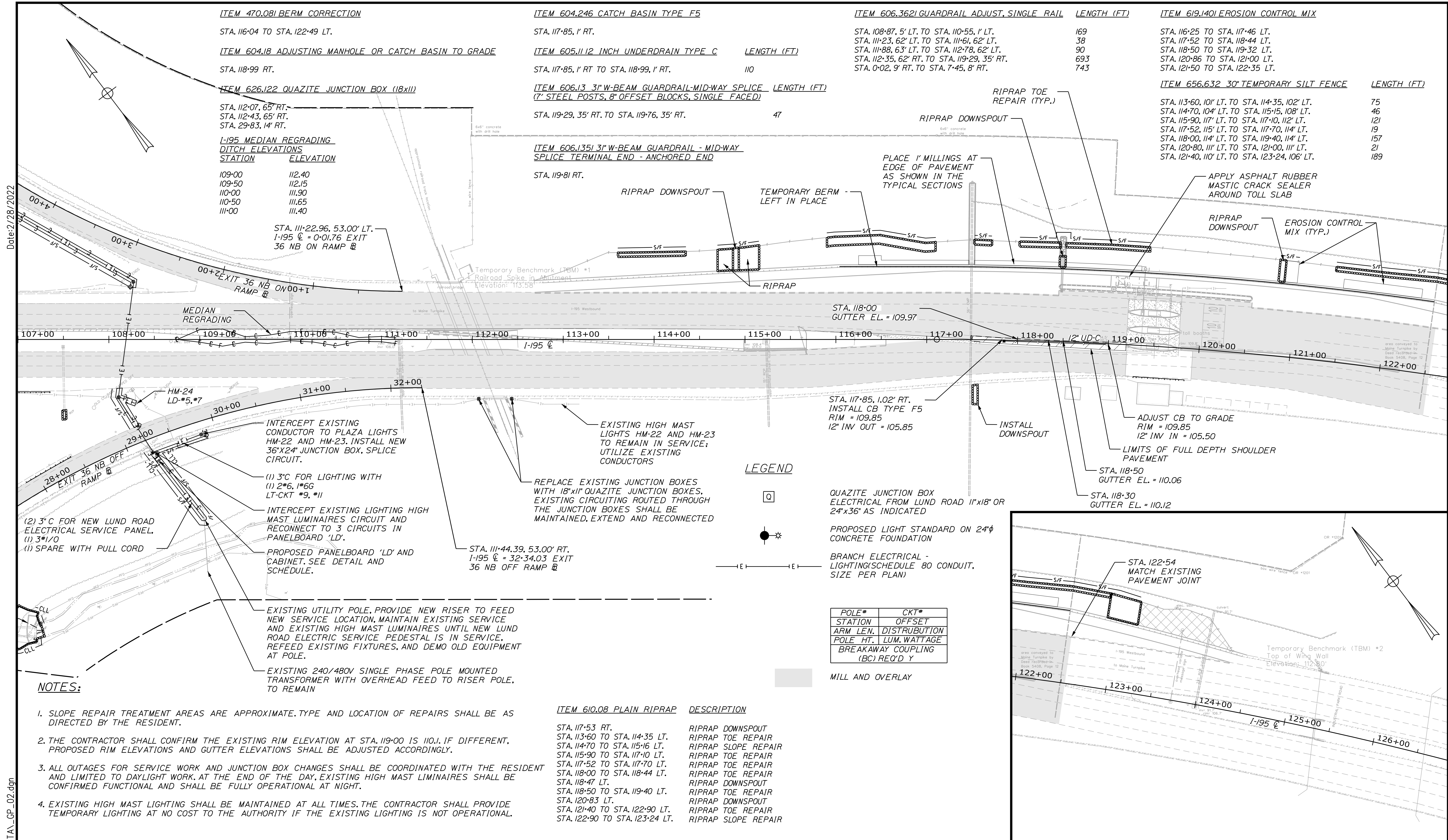
## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 GENERAL PLAN  
 (1 OF 7)

SHEET NUMBER: GP-02  
 31 OF 56

CONTRACT: 2022.02



<b>ITEM 470.081 BERM CORRECTION</b> STA. 116+04 TO STA. 122+49 LT.  <b>ITEM 604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE</b> STA. 118+99 RT.  <b>ITEM 626.122 QUAZITE JUNCTION BOX (18"x11")</b> STA. 112+07, 65' RT. STA. 112+43, 65' RT. STA. 29+83, 14' RT.  <b>1-195 MEDIAN REGRADING DITCH ELEVATIONS</b> <table border="1"> <tr><th>STATION</th><th>ELEVATION</th></tr> <tr><td>109+00</td><td>112.40</td></tr> <tr><td>109+50</td><td>112.15</td></tr> <tr><td>110+00</td><td>111.90</td></tr> <tr><td>110+50</td><td>111.65</td></tr> <tr><td>111+00</td><td>111.40</td></tr> </table>	STATION	ELEVATION	109+00	112.40	109+50	112.15	110+00	111.90	110+50	111.65	111+00	111.40	<b>ITEM 604.246 CATCH BASIN TYPE F5</b> STA. 117+85, 1' RT.  <b>ITEM 605.112 INCH UNDERDRAIN TYPE C</b> <u>LENGTH (FT)</u> STA. 117+85, 1' RT TO STA. 118+99, 1' RT.      110  <b>ITEM 606.13 31" W-BEAM GUARDRAIL-MID-WAY SPLICE</b> <u>LENGTH (FT)</u> <b>(7' STEEL POSTS, 8' OFFSET BLOCKS, SINGLE FACED)</b> STA. 119+29, 35' RT. TO STA. 119+76, 35' RT.      47  <b>ITEM 606.1351 31" W-BEAM GUARDRAIL - MID-WAY SPLICE TERMINAL END - ANCHORED END</b> STA. 119+81 RT.	<b>ITEM 606.3621 GUARDRAIL ADJUST, SINGLE RAIL</b> <u>LENGTH (FT)</u> STA. 108+87, 5' LT. TO STA. 110+55, 1' LT.      169 STA. 111+23, 62' LT. TO STA. 111+61, 62' LT.      38 STA. 111+88, 63' LT. TO STA. 112+78, 62' LT.      90 STA. 112+35, 62' RT. TO STA. 119+29, 35' RT.      693 STA. 0+02, 9' RT. TO STA. 7+45, 8' RT.      743	<b>ITEM 619.1401 EROSION CONTROL MIX</b> STA. 116+25 TO STA. 117+46 LT. STA. 117+52 TO STA. 118+44 LT. STA. 118+50 TO STA. 119+32 LT. STA. 120+86 TO STA. 121+00 LT. STA. 121+50 TO STA. 122+35 LT.  <b>ITEM 656.632 30" TEMPORARY SILT FENCE</b> <u>LENGTH (FT)</u> STA. 113+60, 101' LT. TO STA. 114+35, 102' LT.      75 STA. 114+70, 104' LT. TO STA. 115+15, 108' LT.      46 STA. 115+90, 117' LT. TO STA. 117+10, 112' LT.      121 STA. 117+52, 115' LT. TO STA. 117+70, 114' LT.      19 STA. 118+00, 114' LT. TO STA. 119+40, 114' LT.      157 STA. 120+80, 111' LT. TO STA. 121+00, 111' LT.      21 STA. 121+40, 110' LT. TO STA. 123+24, 106' LT.      189
STATION	ELEVATION														
109+00	112.40														
109+50	112.15														
110+00	111.90														
110+50	111.65														
111+00	111.40														

Date: 2/28/2022

Filename: ...100.HIGHWAY\MSTA...\_GP\_02.dgn

**NOTES:**

- SLOPE REPAIR TREATMENT AREAS ARE APPROXIMATE. TYPE AND LOCATION OF REPAIRS SHALL BE AS DIRECTED BY THE RESIDENT.
- THE CONTRACTOR SHALL CONFIRM THE EXISTING RIM ELEVATION AT STA. 119+00 IS 110.1. IF DIFFERENT, PROPOSED RIM ELEVATIONS AND GUTTER ELEVATIONS SHALL BE ADJUSTED ACCORDINGLY.
- ALL OUTAGES FOR SERVICE WORK AND JUNCTION BOX CHANGES SHALL BE COORDINATED WITH THE RESIDENT AND LIMITED TO DAYLIGHT WORK. AT THE END OF THE DAY, EXISTING HIGH MAST LUMINAIRES SHALL BE CONFIRMED FUNCTIONAL AND SHALL BE FULLY OPERATIONAL AT NIGHT.
- EXISTING HIGH MAST LIGHTING SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AT NO COST TO THE AUTHORITY IF THE EXISTING LIGHTING IS NOT OPERATIONAL.

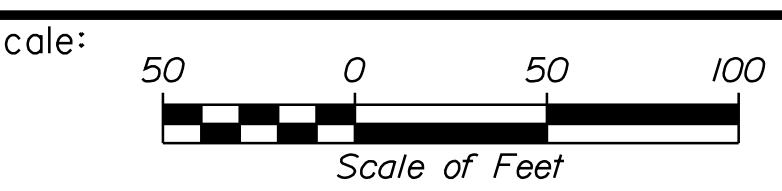
**LEGEND**

- QUAZITE JUNCTION BOX ELECTRICAL FROM LUND ROAD 11"x18" OR 24"x36" AS INDICATED
- PROPOSED LIGHT STANDARD ON 24" CONCRETE FOUNDATION
- BRANCH ELECTRICAL - LIGHTING SCHEDULE 80 CONDUIT, SIZE PER PLAN
- MILL AND OVERLAY

POLE#	CKT#
STATION	OFFSET
ARM LEN.	DISTRIBUTION
POLE HT.	LUM. WATTAGE
BREAKAWAY COUPLING (BC) REQ'D Y	

**ITEM 610.08 PLAIN RIPRAP DESCRIPTION**

STATION	DESCRIPTION
STA. 117+53 RT.	RIPRAP DOWNSPOUT
STA. 113+60 TO STA. 114+35 LT.	RIPRAP TOE REPAIR
STA. 114+70 TO STA. 115+16 LT.	RIPRAP SLOPE REPAIR
STA. 115+90 TO STA. 117+10 LT.	RIPRAP TOE REPAIR
STA. 117+52 TO STA. 117+70 LT.	RIPRAP TOE REPAIR
STA. 118+00 TO STA. 118+44 LT.	RIPRAP TOE REPAIR
STA. 118+47 LT.	RIPRAP DOWNSPOUT
STA. 118+50 TO STA. 119+40 LT.	RIPRAP TOE REPAIR
STA. 120+83 LT.	RIPRAP DOWNSPOUT
STA. 121+40 TO STA. 122+90 LT.	RIPRAP TOE REPAIR
STA. 122+90 TO STA. 123+24 LT.	RIPRAP SLOPE REPAIR



Designed by:



STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376



**THE GOLD STAR MEMORIAL HIGHWAY**

**EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION GENERAL PLAN (2 OF 7)**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.					
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

SHEET NUMBER: GP-03

2 OF 56

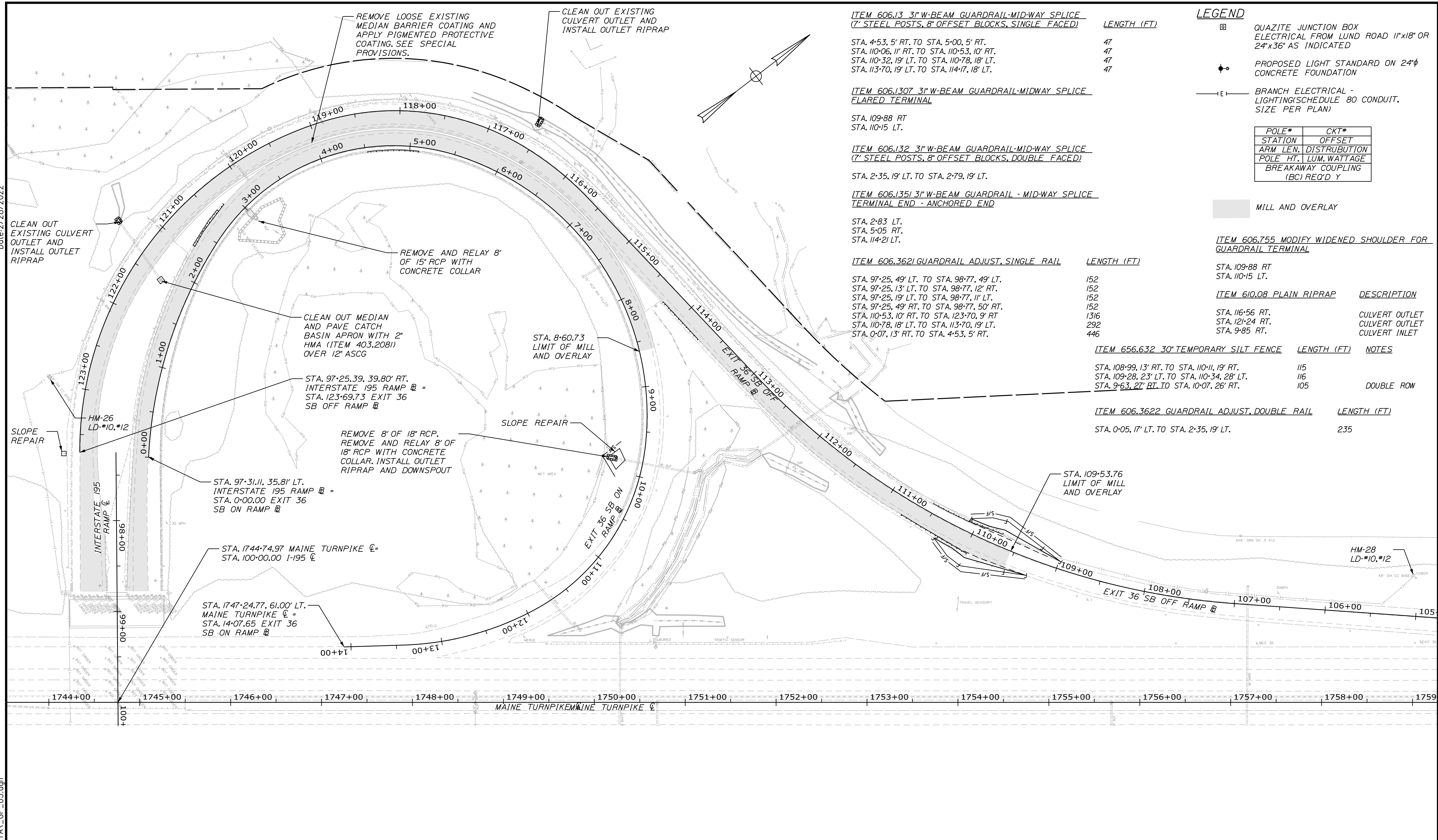
CONTRACT: 2022.02

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE



Date: 2/28/2022

Filename: ...100\HIGHWAY\MSTA\GP\_03.dgn



**ITEM 606.13 3"W-BEAM GUARDRAIL-MID-WAY SPLICE (7" STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)** LENGTH (FT)

STA. 4+53, 5' RT. TO STA. 5+00, 5' RT.  
 STA. 110+06, 11' RT. TO STA. 110+53, 10' RT.  
 STA. 110+32, 19' LT. TO STA. 110+78, 18' LT.  
 STA. 113+70, 19' LT. TO STA. 114+17, 18' LT.

**ITEM 606.1307 3"W-BEAM GUARDRAIL-MIDWAY SPLICE FLARED TERMINAL**

STA. 109+88 RT.  
 STA. 110+15 LT.

**ITEM 606.132 3"W-BEAM GUARDRAIL-MID-WAY SPLICE (7" STEEL POSTS, 8" OFFSET BLOCKS, DOUBLE FACED)**

STA. 2+35, 19' LT. TO STA. 2+79, 19' LT.

**ITEM 606.1351 3"W-BEAM GUARDRAIL - MID-WAY SPLICE TERMINAL END - ANCHORED END**

STA. 2+83 LT.  
 STA. 5+05 RT.  
 STA. 114+21 LT.

**ITEM 606.3621 GUARDRAIL ADJUST, SINGLE RAIL** LENGTH (FT)

STA. 97+25, 49' LT. TO STA. 98+77, 49' LT. 152  
 STA. 97+25, 13' LT. TO STA. 98+77, 12' RT. 152  
 STA. 97+25, 19' LT. TO STA. 98+77, 11' LT. 152  
 STA. 97+25, 49' RT. TO STA. 98+77, 50' RT. 152  
 STA. 110+53, 10' RT. TO STA. 123+70, 9' RT. 136  
 STA. 110+78, 18' LT. TO STA. 113+70, 19' LT. 292  
 STA. 0+07, 13' RT. TO STA. 4+53, 5' RT. 446

**LEGEND**

- ☐ QUAZITE JUNCTION BOX ELECTRICAL FROM LUND ROAD 11"x18" OR 24"x36" AS INDICATED
- ⊕ PROPOSED LIGHT STANDARD ON 24"φ CONCRETE FOUNDATION
- E— BRANCH ELECTRICAL - LIGHTING(SCHEDULE 80 CONDUIT, SIZE PER PLAN)

POLE#	CKT#
STATION	OFFSET
ARM LEN.	DISTRIBUTION
POLE HT.	LUM. WATTAGE
BREAKAWAY COUPLING (BC) REQ'D Y	

■ MILL AND OVERLAY

**ITEM 606.755 MODIFY WIDENED SHOULDER FOR GUARDRAIL TERMINAL**

STA. 109+88 RT.  
 STA. 110+15 LT.

**ITEM 610.08 PLAIN RIPRAP** DESCRIPTION

STA. 116+56 RT. CULVERT OUTLET  
 STA. 121+24 RT. CULVERT OUTLET  
 STA. 9+85 RT. CULVERT INLET

**ITEM 656.632 30" TEMPORARY SILT FENCE** LENGTH (FT) NOTES

STA. 108+99, 13' RT. TO STA. 110+11, 19' RT. 115  
 STA. 109+28, 23' LT. TO STA. 110+34, 28' LT. 116  
 STA. 9+63, 27' RT. TO STA. 10+07, 26' RT. 105 DOUBLE ROW

**ITEM 606.3622 GUARDRAIL ADJUST, DOUBLE RAIL** LENGTH (FT)

STA. 0+05, 17' LT. TO STA. 2+35, 19' LT. 235

Scale: 50 0 50 100  
 Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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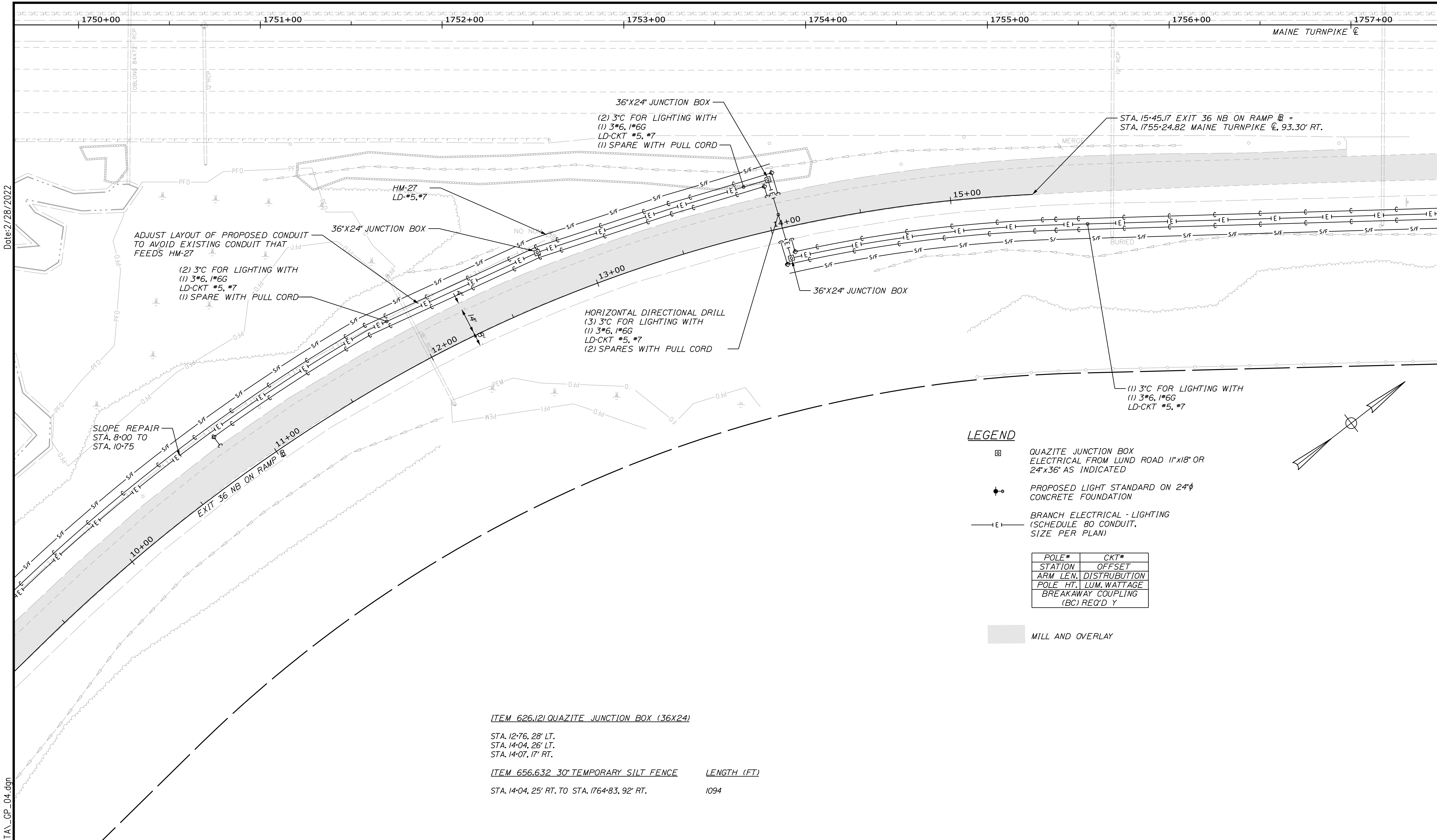
**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

**EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION GENERAL PLAN (3 OF 7)**

SHEET NUMBER: GP-04  
 CONTRACT: 2022.02  
 33 OF 56



Date: 2/28/2022

Filename: ...:\00\HIGHWAY\MSTA\GP\_04.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**MAINE TURNPIKE**

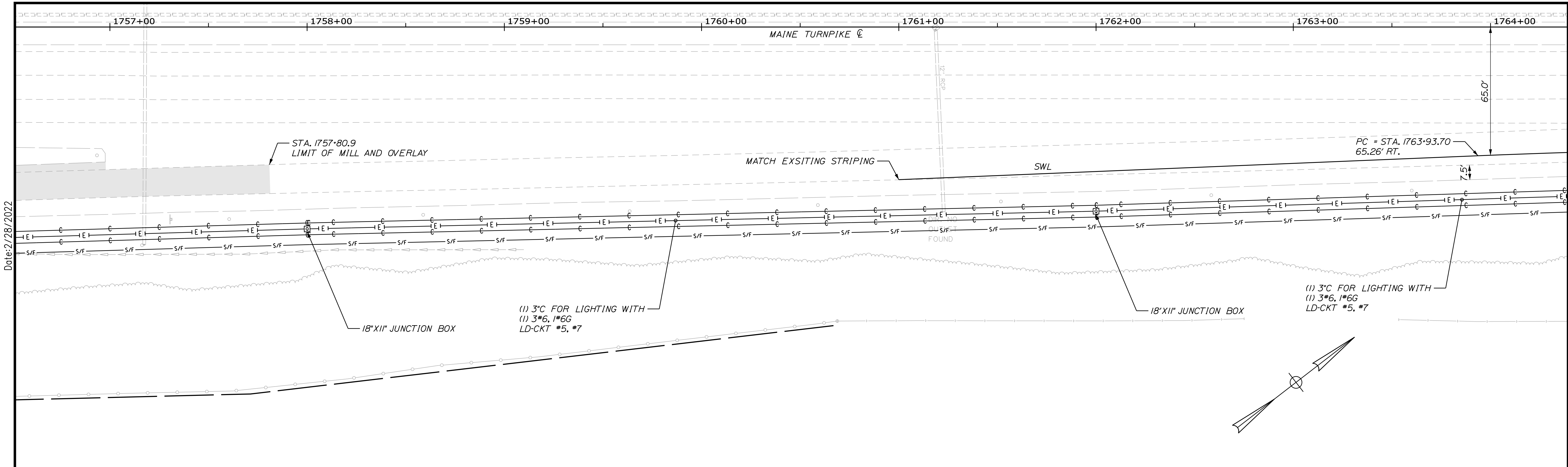
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

**EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION GENERAL PLAN (4 OF 7)**

SHEET NUMBER: GP-05  
CONTRACT: 2022.02  
94 OF 96





Date: 2/28/2022

**LEGEND**

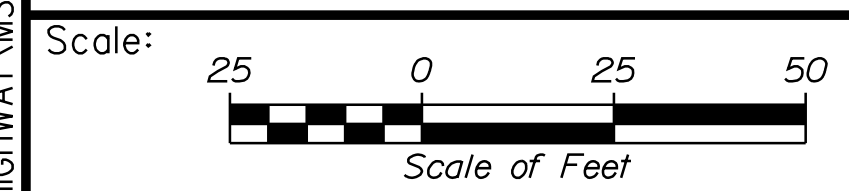
- ☐ QUAZITE JUNCTION BOX  
ELECTRICAL FROM LUND ROAD 11"x18" OR  
24"x36" AS INDICATED
- ⦿ PROPOSED LIGHT STANDARD ON 24"φ  
CONCRETE FOUNDATION
- |E|— BRANCH ELECTRICAL - LIGHTING  
(SCHEDULE 80 CONDUIT,  
SIZE PER PLAN)

POLE#	CKT#
STATION	OFFSET
ARM LEN.	DISTRUBUTION
POLE HT.	LUM. WATTAGE
BREAKAWAY COUPLING (BC) REQ'D Y	

■ MILL AND OVERLAY

ITEM 626.122 QUAZITE JUNCTION BOX (18X11)  
STA. 1758+00, 102' RT.  
STA. 1762+00, 93' RT.

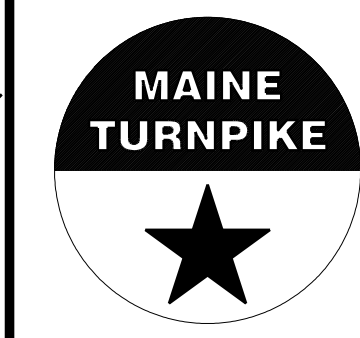
Filename: ...\\00\HIGHWAY\MSTA\GP\_05.dgn



Designed by:



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
GENERAL PLAN  
(5 OF 7)**

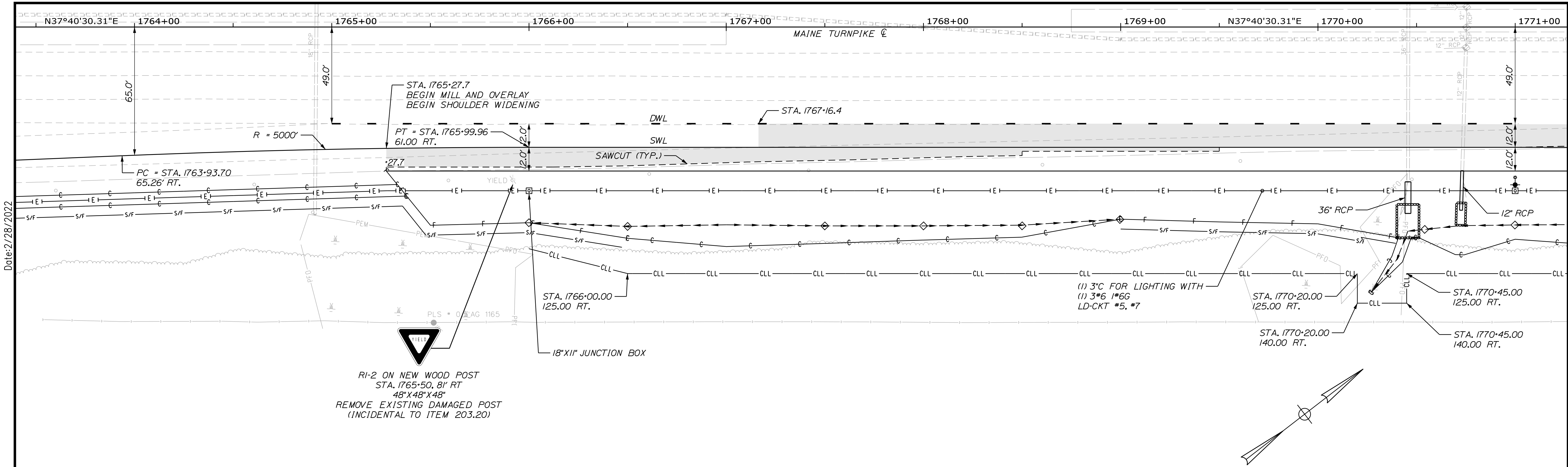
No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.			
	By	Date	
Designed	THG	10\21	Checked JRH 10\21
Drawn	CHL	10\21	In Charge of JRH 10\21

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2022.02

SHEET NUMBER: GP-06  
35 OF 56



Date: 2/28/2022

**LEGEND**

- ◻ QUAZITE JUNCTION BOX  
ELECTRICAL FROM LUND ROAD 11"x18" OR  
24"x36" AS INDICATED
- ⦿ PROPOSED LIGHT STANDARD ON 24"φ  
CONCRETE FOUNDATION
- E— BRANCH ELECTRICAL - LIGHTING  
(SCHEDULE 80 CONDUIT,  
SIZE PER PLAN)

POLE*	CKT*
STATION	OFFSET
ARM LEN.	DISTRUBUTION
POLE HT.	LUM. WATTAGE
BREAKAWAY COUPLING (BC) REQ'D Y	

■ MILL AND OVERLAY

**ITEM 201.11 CLEARING**

STA. 1766+00 TO 1777+00 RT.

**ITEM 610.08 PLAIN RIPRAP**      **DESCRIPTION**

STA. 1770+46 RT.      CULVERT OUTLET  
STA. 1770+73 RT.      CULVERT OUTLET

**ITEM 610.18 TEMPORARY STONE CHECK DAM**

STA. 1766+00, 99' RT.  
STA. 1766+50, 101' RT.  
STA. 1767+50, 101' RT.  
STA. 1768+00, 101' RT.  
STA. 1768+50, 100' RT.  
STA. 1769+00, 97' RT.

**ITEM 613.319 EROSION CONTROL BLANKET**

STA. 1766+00 TO STA. 1769+00 RT.  
STA. 1770+27 TO STA. 1773+88 RT.

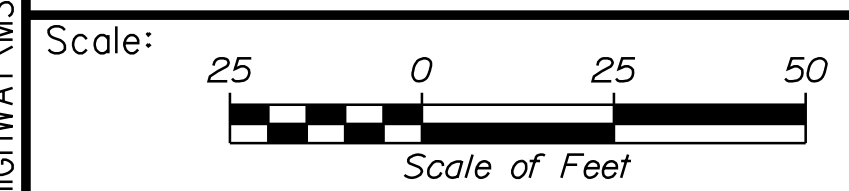
**ITEM 626.122 QUAZITE JUNCTION BOX (18X11)**

STA. 1766+00, 83' RT.

**ITEM 656.632 30" TEMPORARY SILT FENCE**      **LENGTH (FT)**      **NOTES**

STA. 1764+83, 92' RT. TO STA. 1766+02, 105' RT.	252	DOUBLE ROW
STA. 1766+02, 105' RT. TO STA. 1766+50, 112' RT.	48	
STA. 1769+00, 102' RT. TO STA. 1769+61, 104' RT.	61	
STA. 1769+61, 104' RT. TO STA. 1770+40, 110' RT.	167	DOUBLE ROW

Filename: ...:\00\HIGHWAY\MSTA\GP\_06.dgn



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date	By	Date	
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

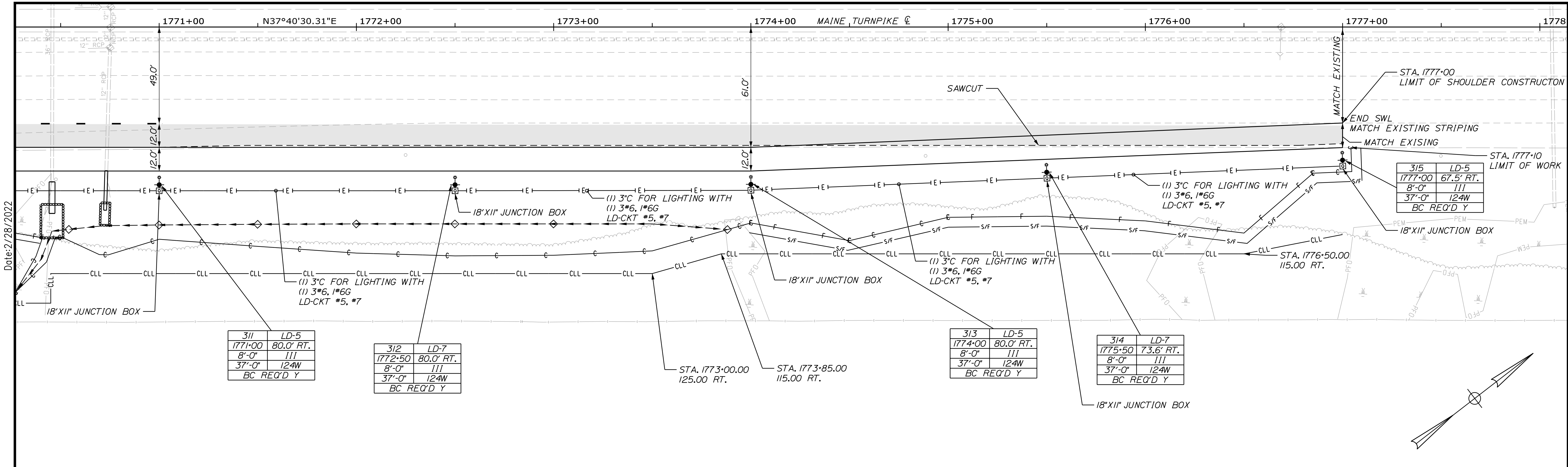
STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
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FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

**EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
GENERAL PLAN  
(6 OF 7)**

SHEET NUMBER: GP-07  
CONTRACT: 2022.02  
96 OF 96



Date: 2/28/2022  
Filename: ...:\00\HIGHWAY\MSTA\...\_GP\_07.dgn

**LEGEND**

- ☐ QUAZITE JUNCTION BOX  
ELECTRICAL FROM LUND ROAD 11"x18" OR  
24"x36" AS INDICATED
  - ⦿ PROPOSED LIGHT STANDARD ON 24"φ  
CONCRETE FOUNDATION
  - E— BRANCH ELECTRICAL - LIGHTING  
(SCHEDULE 80 CONDUIT,  
SIZE PER PLAN)
- | POLE#                              | CKT#         |
|------------------------------------|--------------|
| STATION                            | OFFSET       |
| ARM LEN.                           | DISTRUBUTION |
| POLE HT.                           | LUM. WATTAGE |
| BREAKAWAY COUPLING<br>(BC) REQ'D Y |              |
- MILL AND OVERLAY

- ITEM 610.181 TEMPORARY STONE CHECK DAM  
STA. 1770+54, 103' RT.  
STA. 1771+00, 100' RT.  
STA. 1771+50, 100' RT.  
STA. 1772+00, 100' RT.  
STA. 1772+50, 100' RT.  
STA. 1773+00, 100' RT.  
STA. 1773+88, 103' RT.
- ITEM 626.122 QUAZITE JUNCTION BOX (18X11)  
STA. 1771+00, 83' RT.  
STA. 1772+50, 83' RT.  
STA. 1774+00, 83' RT.  
STA. 1775+50, 77' RT.  
STA. 1777+00, 70' RT.
- ITEM 626.32 24 INCH DIAMETER FOUNDATION  
STA. 1771+00, 80' RT.  
STA. 1772+50, 80' RT.  
STA. 1774+00, 80' RT.  
STA. 1775+50, 74' RT.  
STA. 1777+00, 67' RT.
- ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE  
STA. 1771+00, 80' RT.  
STA. 1772+50, 80' RT.  
STA. 1774+00, 80' RT.  
STA. 1775+50, 74' RT.  
STA. 1777+00, 67' RT.
- ITEM 656.632 30" TEMPORARY SILT FENCE      LENGTH (FT)      NOTES  
STA. 1773+99, 104' RT. TO STA. 1776+00, 103' RT.      204  
STA. 1776+00, 103' RT. TO STA. 1776+39, 108' RT.      77      DOUBLE ROW  
STA. 1776+39, 108' RT. TO STA. 1777+10, 61' RT.      99

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
GENERAL PLAN  
(7 OF 7)

SHEET NUMBER: GP-08  
CONTRACT: 2022.02  
97 OF 98

Date: 2/28/2022

Filename: ...00\HIGHWAY\MSTA\ditch.dgn

**ITEM 2011.CLEARING**

STA. 1696+32 TO STA. 1697+15 LT.  
STA. 1697+71 TO STA. 1698+02 LT.

**ITEM 610.08 PLAIN RIPRAP** DESCRIPTION

STA. 0+06 TO STA. 1+78 CULVERT OUTLET

STA 1+78.36  
LIMIT OF WORK  
MATCH EXISTING  
WIDTH

**CURVE DATA #2**  
PI = 1+68.01  
D = 229°10'59.2"  
Δ = 58°07'52.9" Rt.  
R = 25.00'  
L = 25.36'  
T = 13.90'  
E = 3.60'

PT = STA. 1+79.48

PC = STA. 1+54.12

PT = STA. 0+73.49

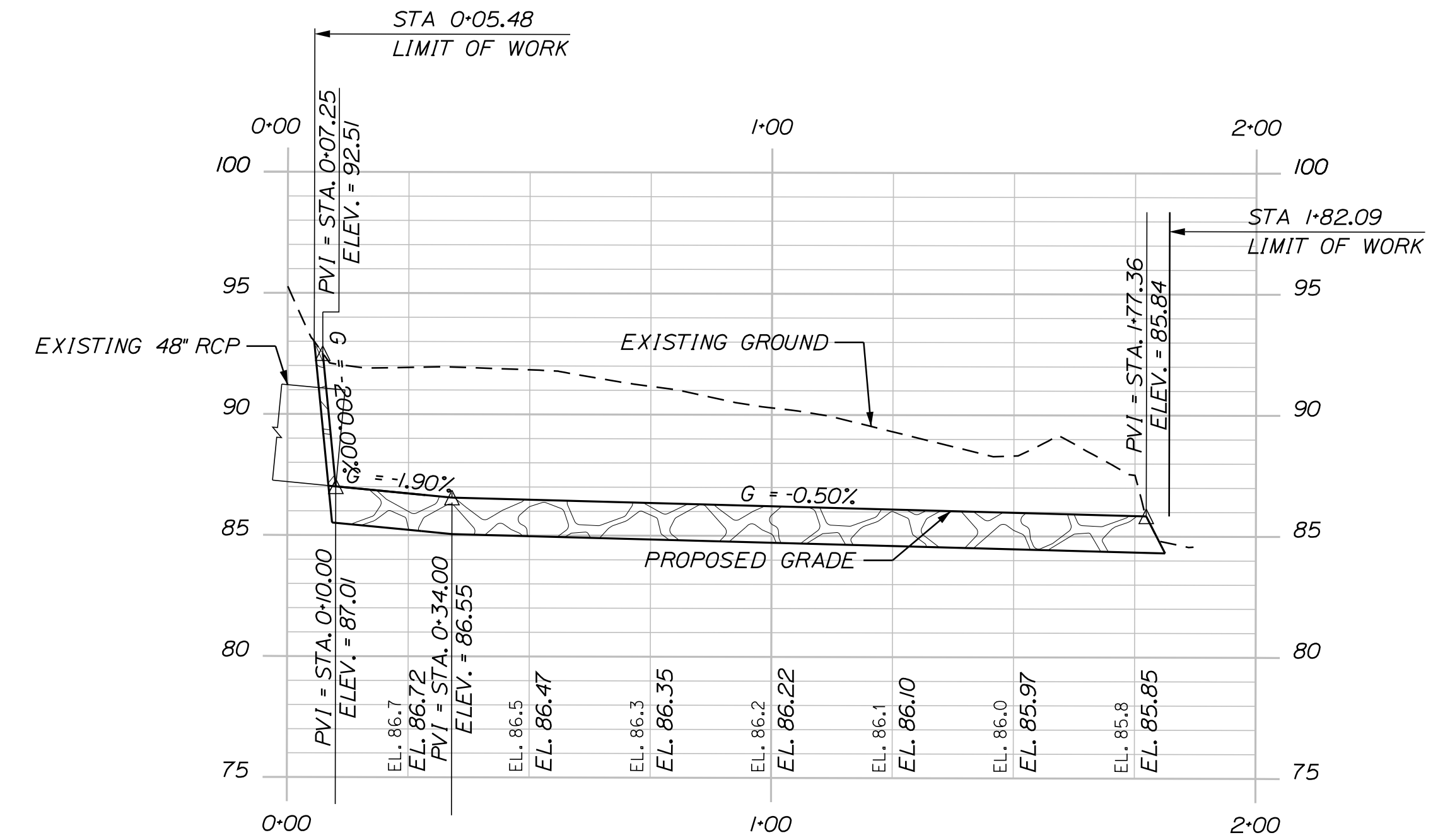
PC = STA. 0+50.00

**CURVE DATA #1**  
PI = 0+62.69  
D = 229°10'59.2"  
Δ = 53°49'27.5" Lt.  
R = 25.00'  
L = 23.49'  
T = 12.69'  
E = 3.04'

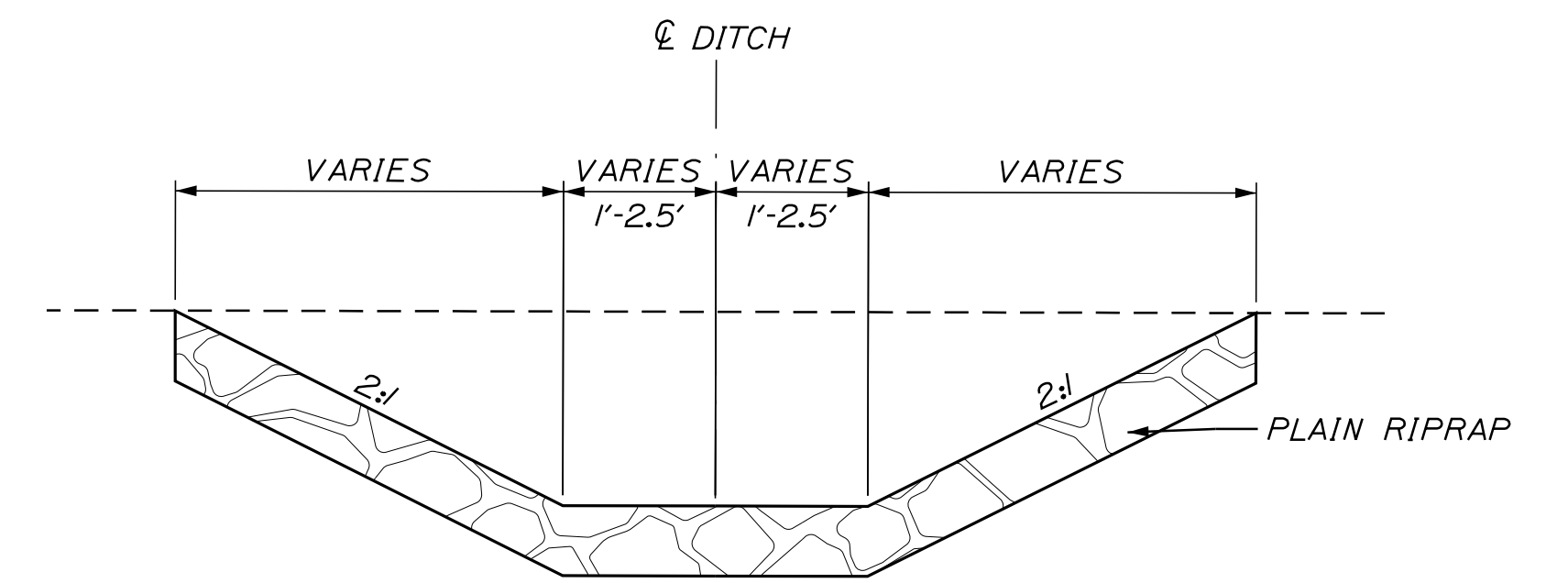
STA 0+06.12  
LIMIT OF WORK

STA. 00+00.00 CULVERT OUTLET DITCH @ =  
STA. 1699+44.87 MAINE TURNPIKE CL. 79.12' LT.

STA 1699+44.87

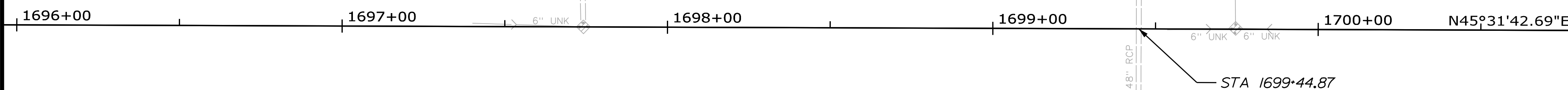


**OUTLET DITCH PROFILE**  
SCALE = 1" : 25'



**OUTLET DITCH TYPICAL SECTION**  
NOT TO SCALE

**OUTLET DITCH PLAN VIEW**  
SCALE = 1" : 25'



Scale: AS NOTED

No.	Revision	By	Date

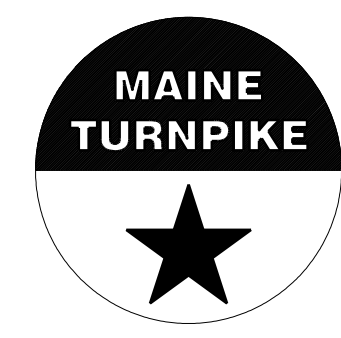
Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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PORTLAND, ME 04102  
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FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

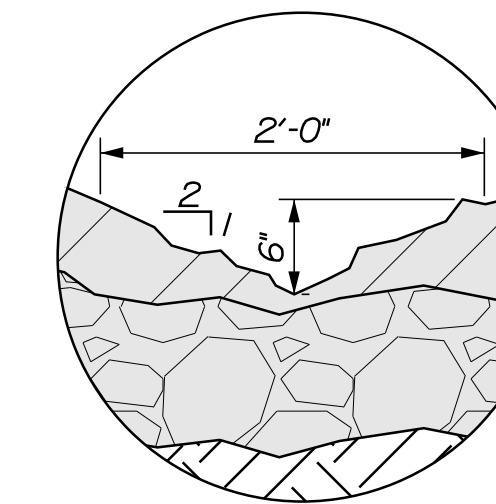
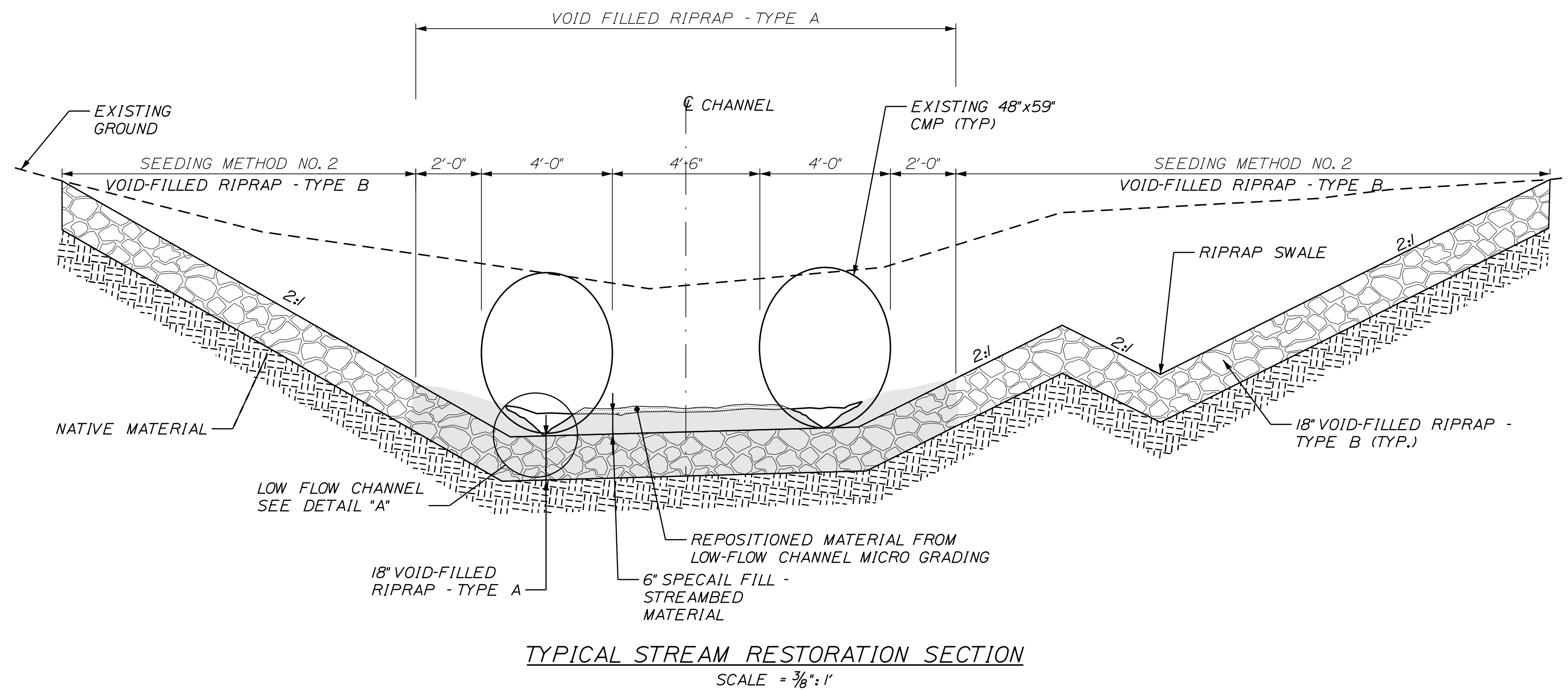
EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
CULVERT OUTLET DITCHING PLAN  
STA. 1699+45

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2022.02

SHEET NUMBER: GP-08  
38 OF 56

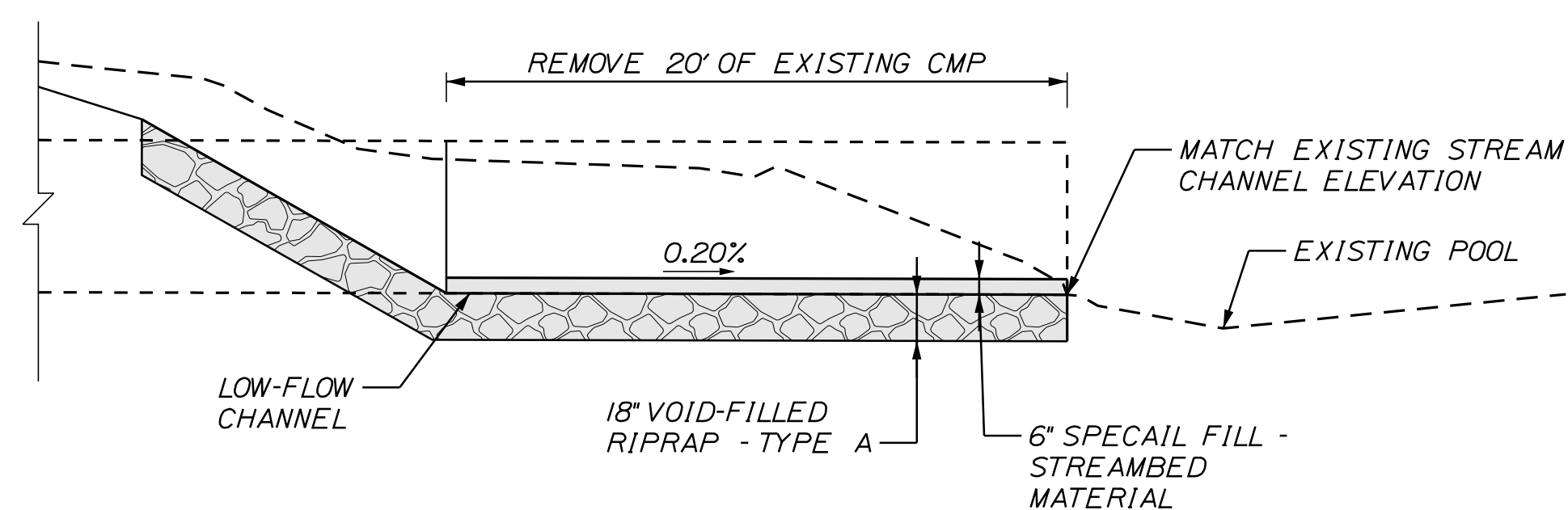




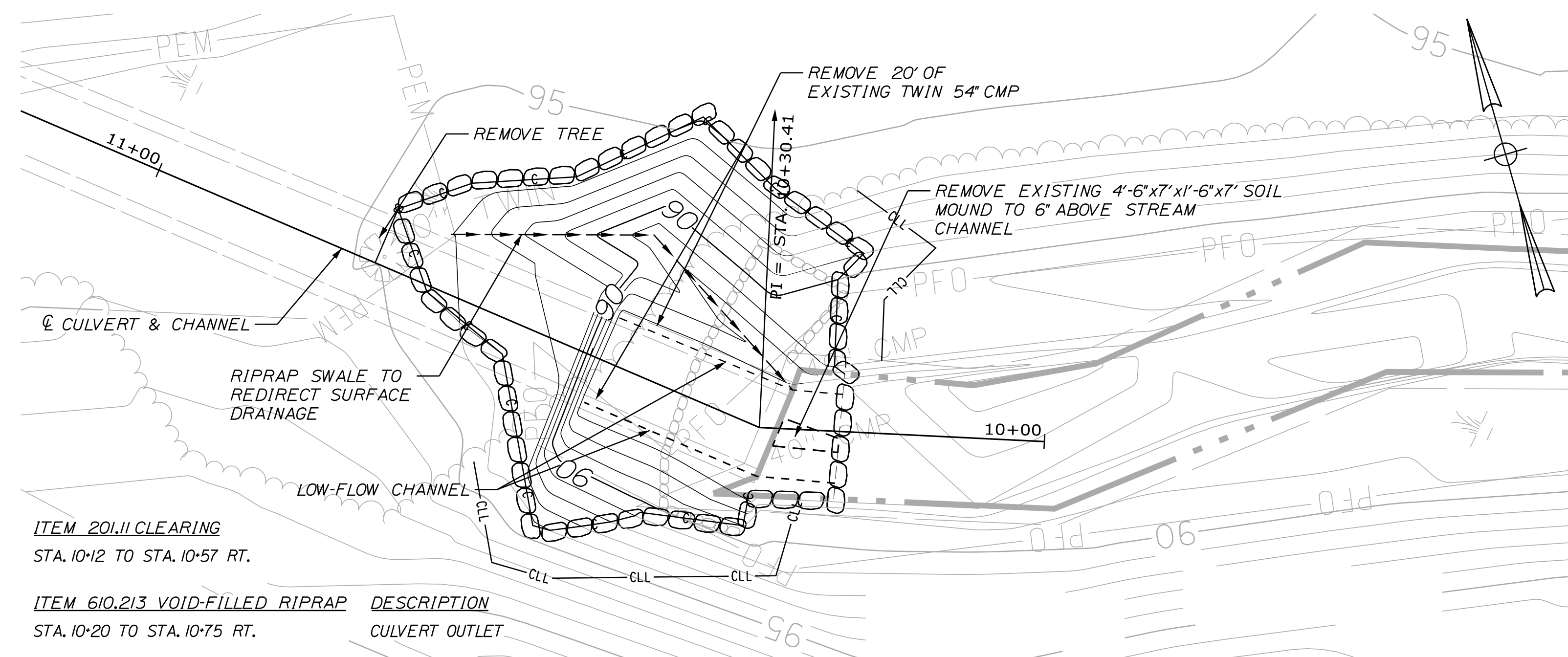
DETAIL "A" - LOW FLOW CHANNEL  
SCALE: 1" = 1'-0"

NOTES:

1. PRIOR TO INSTALLING THE SPECIAL FILL - STREAMBED MATERIAL, THE VOID-FILLED RIPRAP TYPE "A" SHALL BE FLOODED AND OBSERVED TO ENSURE THAT THE TOP LAYER OF THE VOID-FILLED RIPRAP TYPE "A" WILL POND WATER ON THE SURFACE. ADDITIONAL MATERIAL WITH SIGNIFICANT PROPORTION OF FINES SHALL BE WASHED-IN TO FILL AND SEAL ANY REMAINING VOIDS UNTIL WATER PONDS ON THE SURFACE.
2. LOW-FLOW CHANNEL VARIES HORIZONTALLY FROM 0' TO 1' TO EITHER SIDE OF CHANNEL CENTERLINE. SEE PLAN FOR APPROXIMATE ALIGNMENT OF THE LOW-FLOW CHANNEL.



TYPICAL CULVERT REMOVAL AND CHANNEL PROFILE  
SCALE = 1" : 5'



GOOSEFARE BROOK PLAN VIEW  
SCALE = 1" : 10'

ITEM	DESCRIPTION
ITEM 20.11 CLEARING	STA. 10+12 TO STA. 10+57 RT.
ITEM 610.213 VOID-FILLED RIPRAP	STA. 10+20 TO STA. 10+75 RT.

Filename: ...MSTA\Culvert Removal.dgn

Scale: AS NOTED			
No.	Revision	By	Date

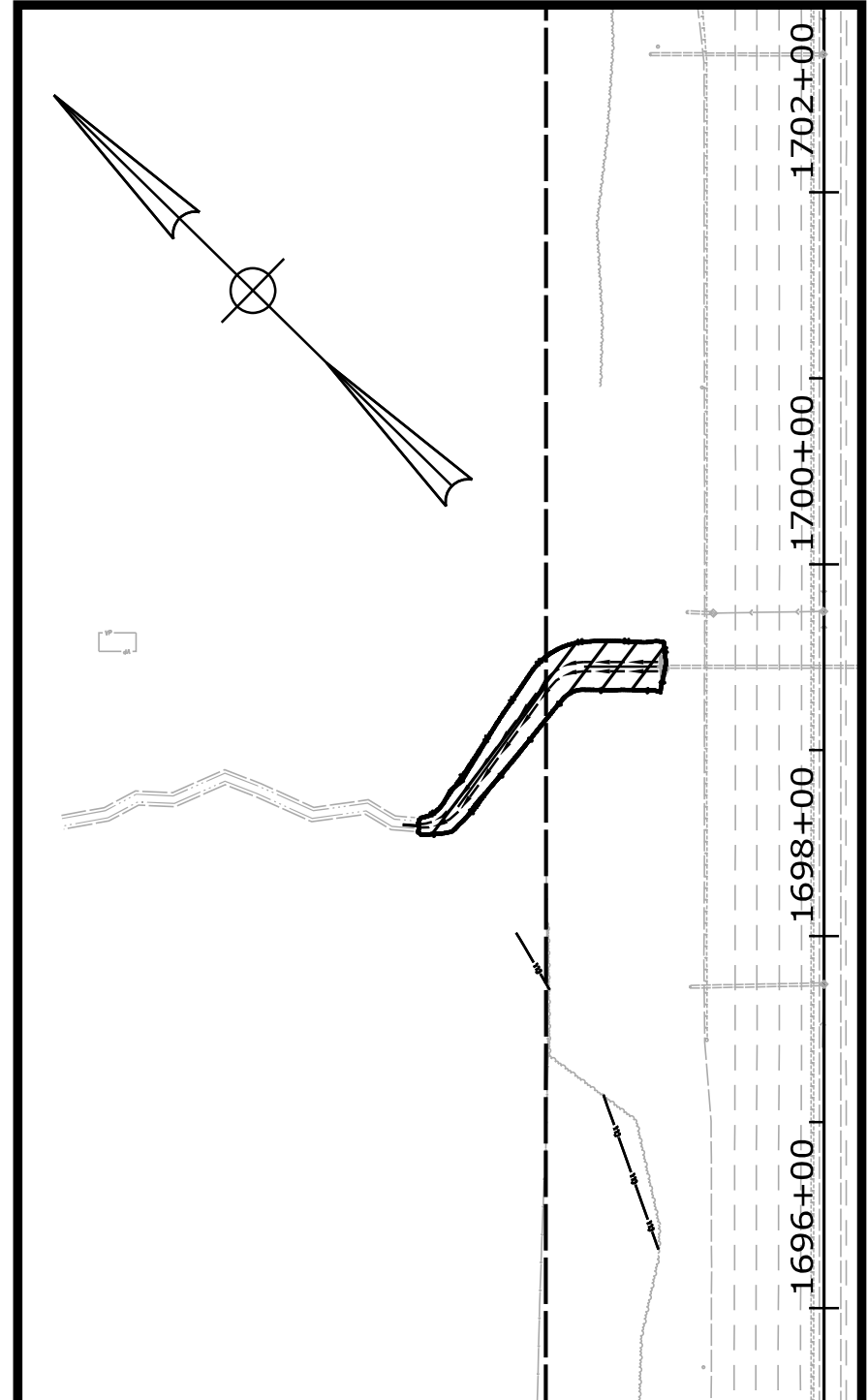
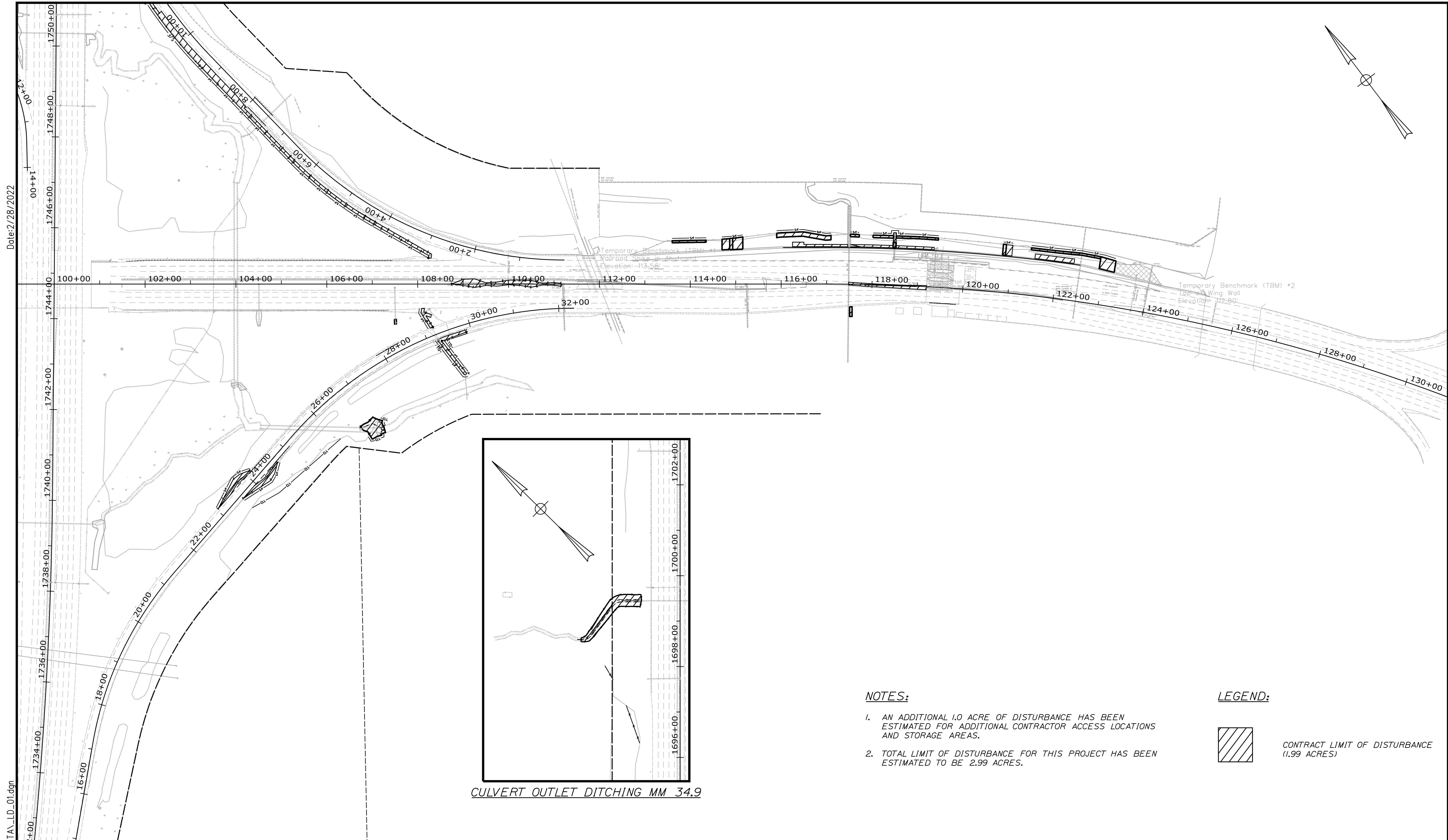
Designed by:			
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.			
Designed	THG	10\21	Checked
Drawn	CHL	10\21	In Charge of

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PORTLAND, ME 04102  
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**THE GOLD STAR MEMORIAL HIGHWAY**

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
GOOSEFARE BROOK  
CULVERT REMOVAL PLAN

SHEET NUMBER: GP-09  
CONTRACT: 2022.02  
9 OF 56



**NOTES:**

1. AN ADDITIONAL 1.0 ACRE OF DISTURBANCE HAS BEEN ESTIMATED FOR ADDITIONAL CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.
2. TOTAL LIMIT OF DISTURBANCE FOR THIS PROJECT HAS BEEN ESTIMATED TO BE 2.99 ACRES.

**LEGEND:**

CONTRACT LIMIT OF DISTURBANCE  
(1.99 ACRES)

Date: 2/28/2022  
Filename: ...:\00\HIGHWAY\MSTA\LD\_01.dgn

Scale: 100 0 100 200  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date	By	Date
Designed	THG	10\21	Checked	JRH 10\21
Drawn	CHL	10\21	In Charge of	JRH 10\21

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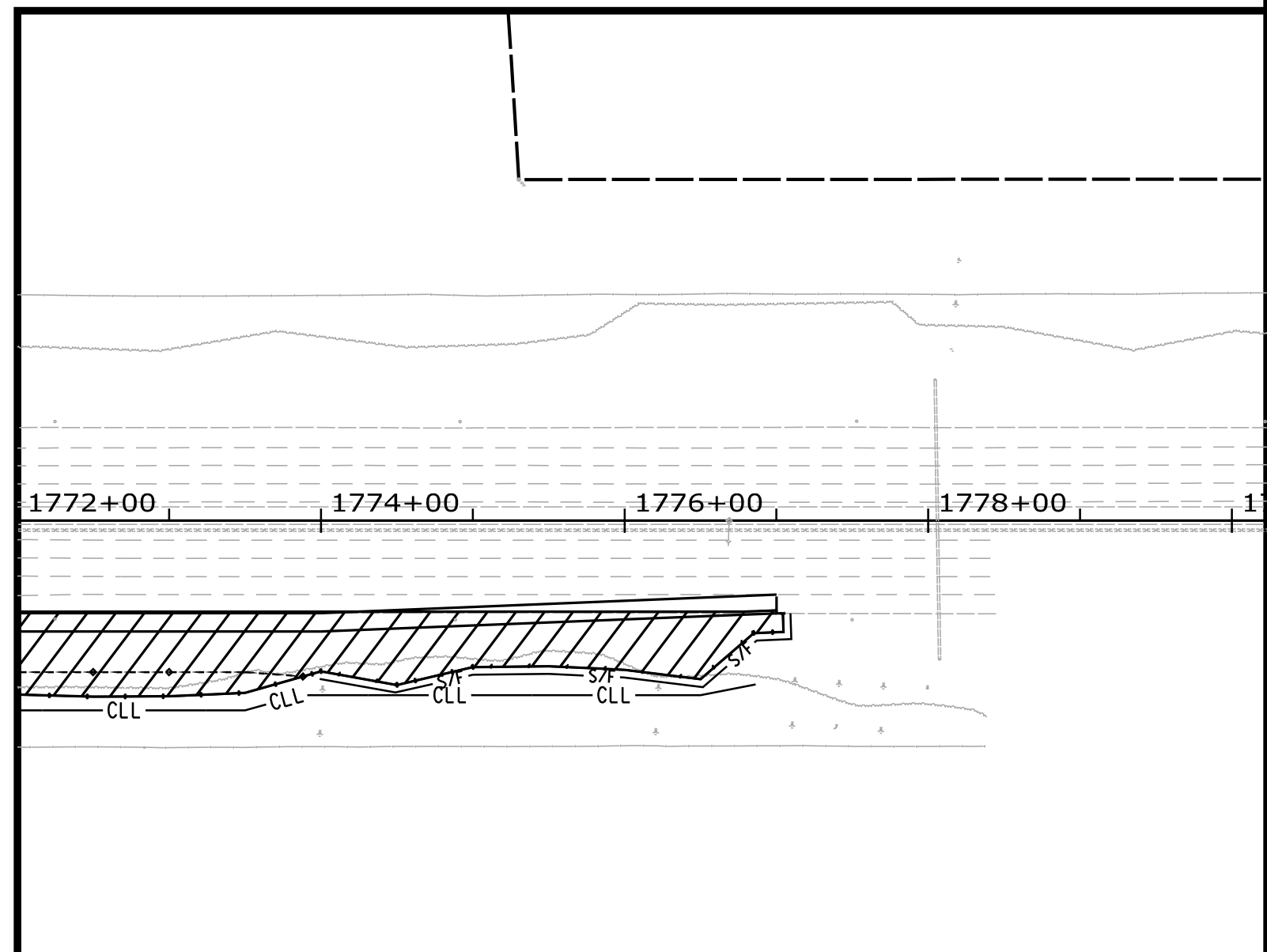
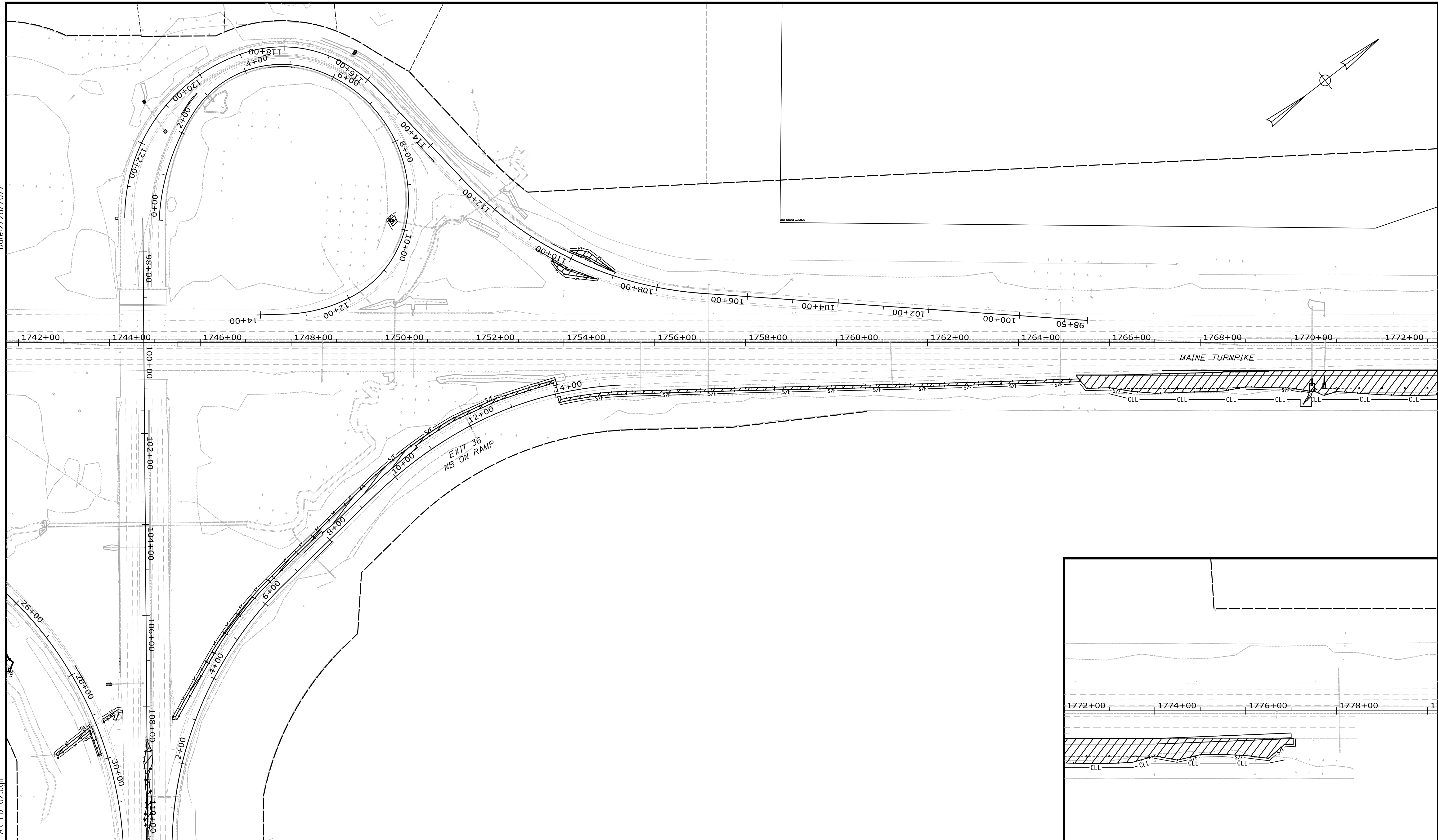
**THE GOLD STAR  
MEMORIAL HIGHWAY**

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
LIMIT OF DISTURBANCE PLAN  
(1 OF 2)

SHEET NUMBER: LD-01  
CONTRACT: 2022.02  
40 OF 56

Date: 2/28/2022


Filename: ...00\HIGHWAY\MSTA\LD\_02.dgn



Scale: 100 0 100 200  
Scale of Feet

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

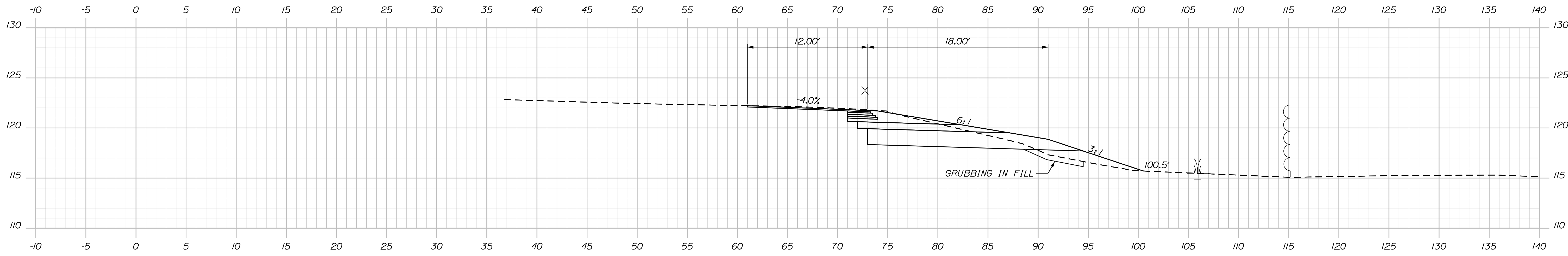
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

**EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
LIMIT OF DISTURBANCE PLAN  
(2 OF 2)**

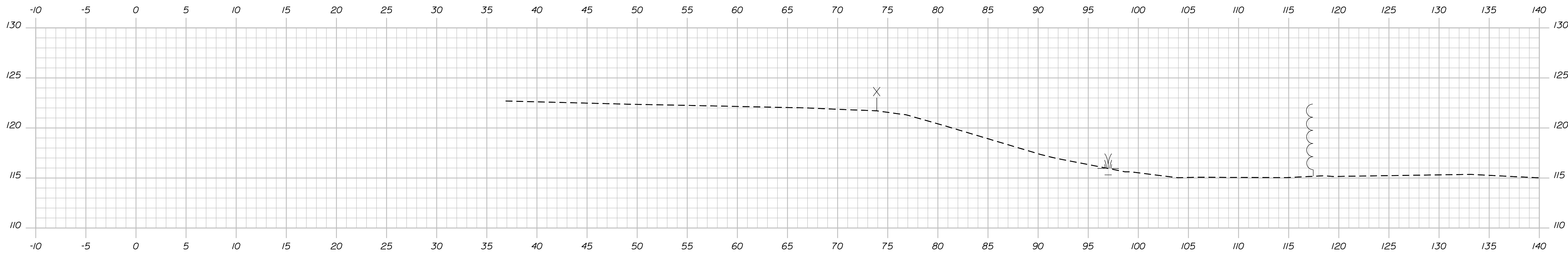
SHEET NUMBER: LD-02  
CONTRACT: 2022.02  
41 OF 56

Date: 2/28/2022

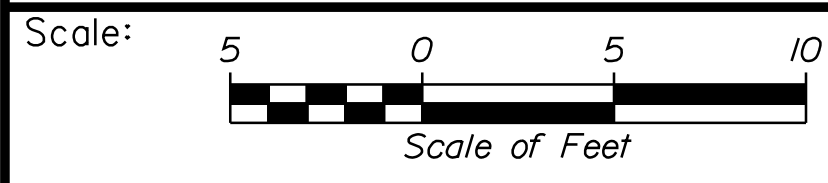
Filename: ...MSTAXsect\_NB\_Turnpike.dgn



1765+50.00  
 STA. 1765+27.7  
 BEGIN OF MILL AND OVERLAY  
 BEGIN SHOULDER WIDENING



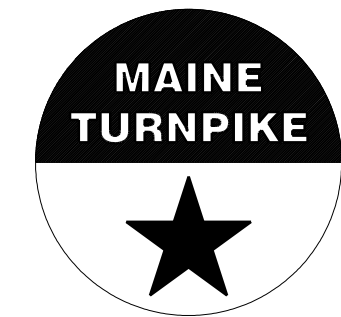
1765+00.00



Designed by:



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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1765+00.00 TO STA. 1765+50.00**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.			
	By	Date	
Designed	THG	10\21	Checked
			JRH
			10\21
Drawn	CHL	10\21	In Charge of
			JRH
			10\21

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2022.02

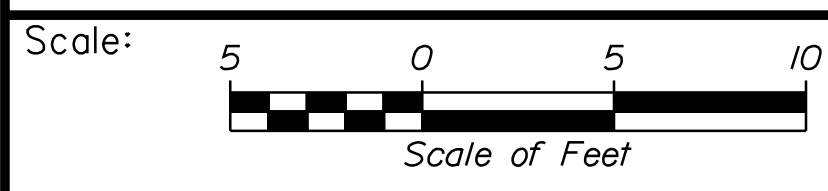
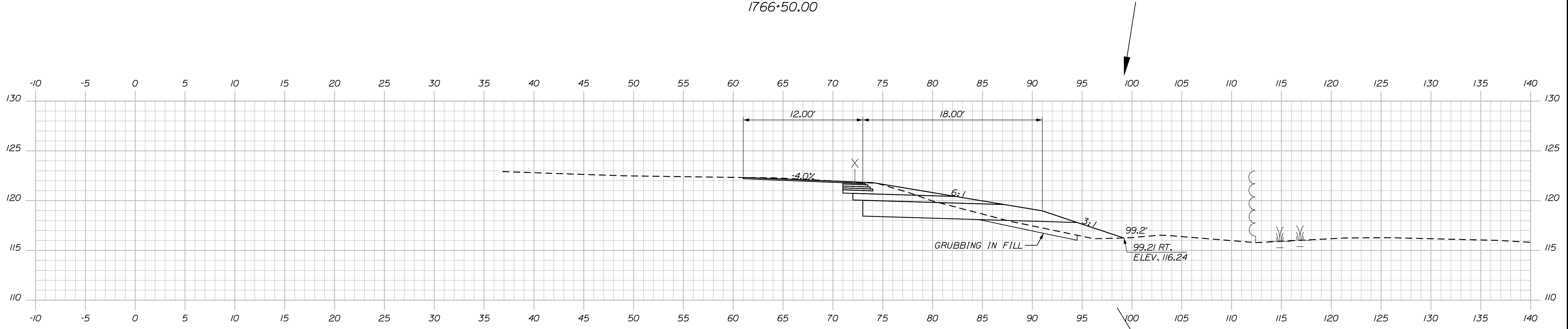
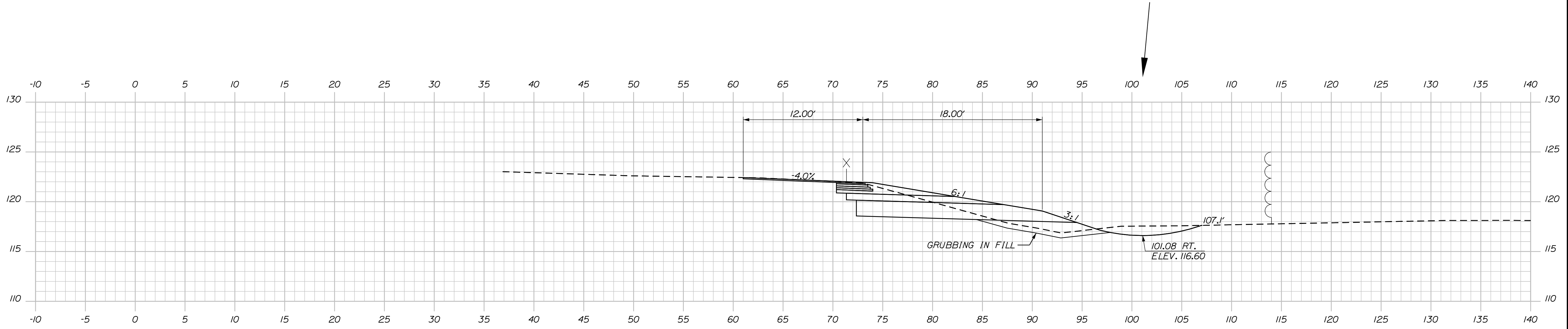
SHEET NUMBER: XS-01

42 OF 56



Date: 2/28/2022

Filename: ...MSTAXsect\_NB\_Turnpike.dgn



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

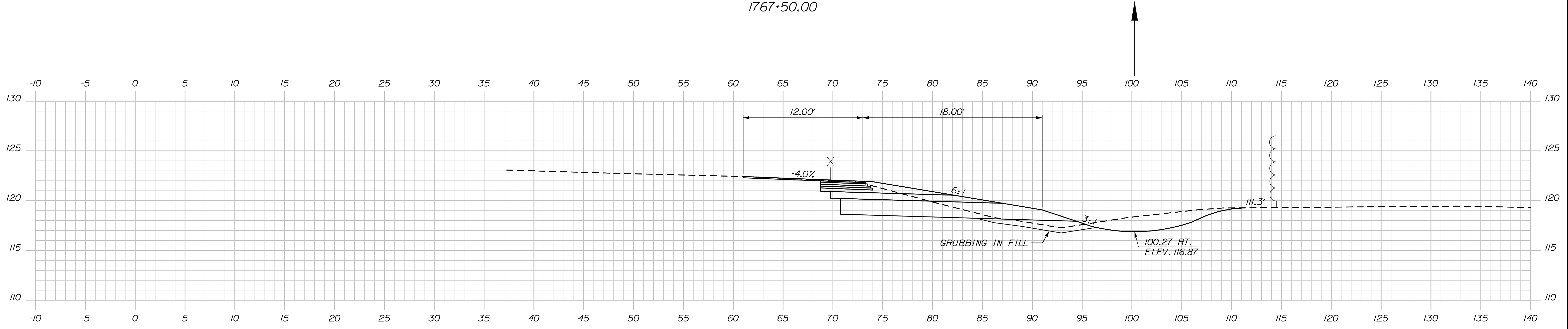
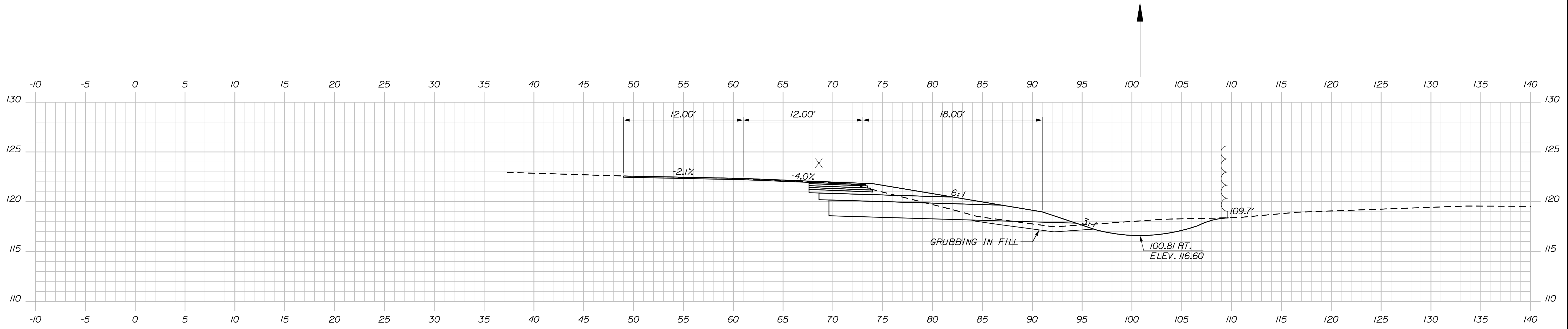
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
NB ON RAMP  
STA. 1766+00.00 TO STA. 1766+50.00

SHEET NUMBER: XS-02  
CONTRACT: 2022.02  
43 OF 56

Date: 2/28/2022

Filename: ...MSTAXsect-NB\_Turnpike.dgn



Scale: 5 0 5 10  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**THE GOLD STAR MEMORIAL HIGHWAY**

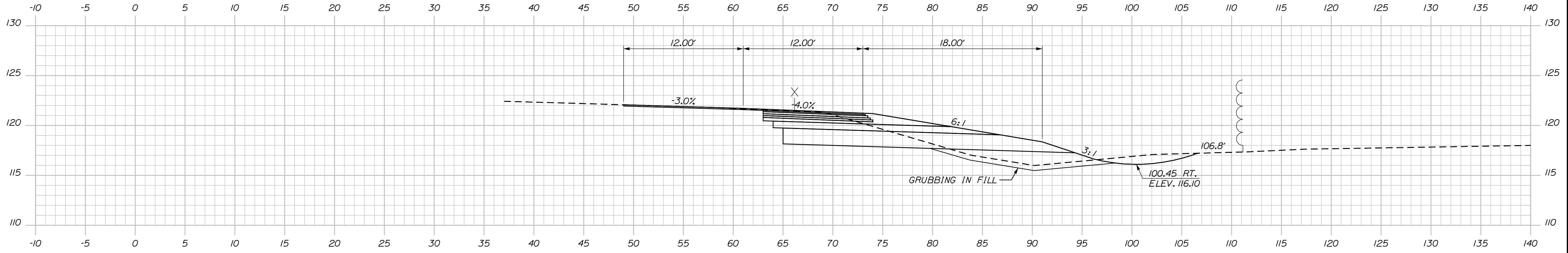
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
NB ON RAMP  
STA. 1767+00.00 TO STA. 1767+50.00

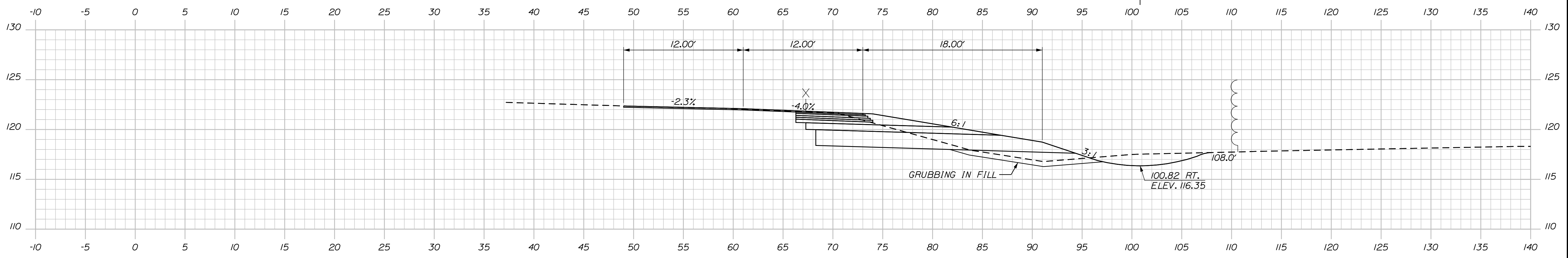
SHEET NUMBER: XS-03  
CONTRACT: 2022.02  
44 OF 56

Date: 2/28/2022

Filename: ...MSTAXsect\_NB\_Turnpike.dgn



1768+50.00



1768+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

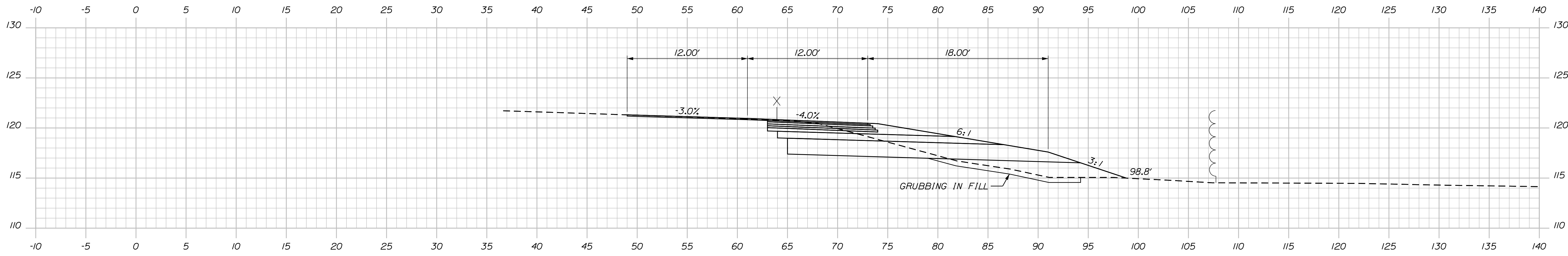
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1768+00.00 TO STA. 1768+50.00

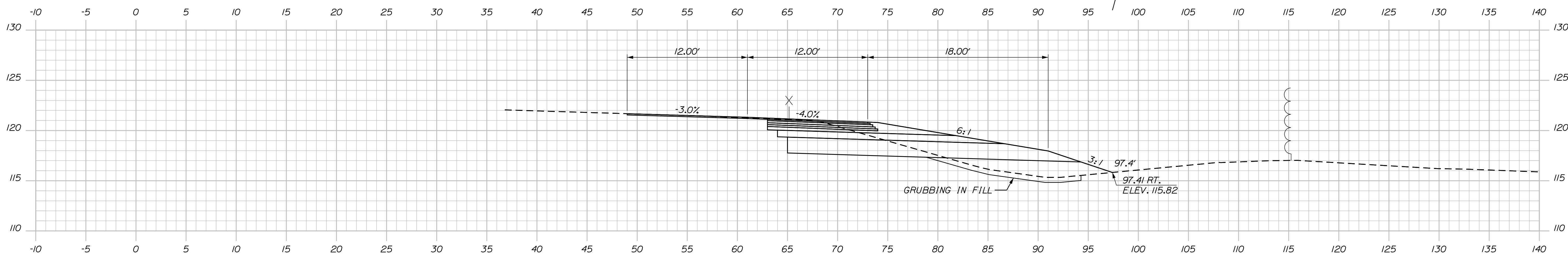
SHEET NUMBER: XS-04  
 CONTRACT: 2022.02  
 45 OF 56

Date: 2/28/2022

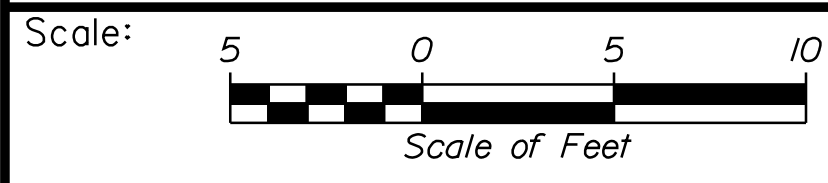
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1769+50.00



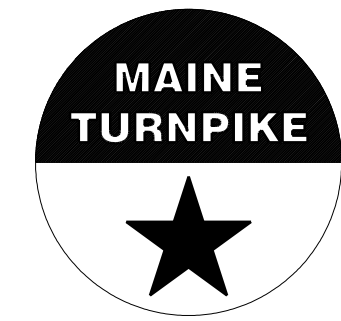
1769+00.00



Designed by:



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THE GOLD STAR  
MEMORIAL HIGHWAY

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
NB ON RAMP  
STA. 1769+00.00 TO STA. 1769+50.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.			
	By	Date	
Designed	THG	10\21	Checked
			JRH
			10\21
Drawn	CHL	10\21	In Charge of
			JRH
			10\21

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2022.02

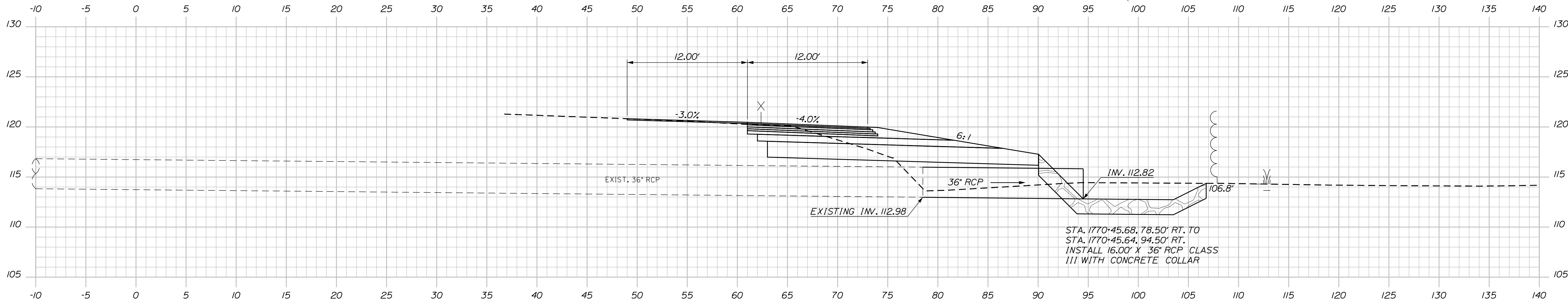
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46 OF 56

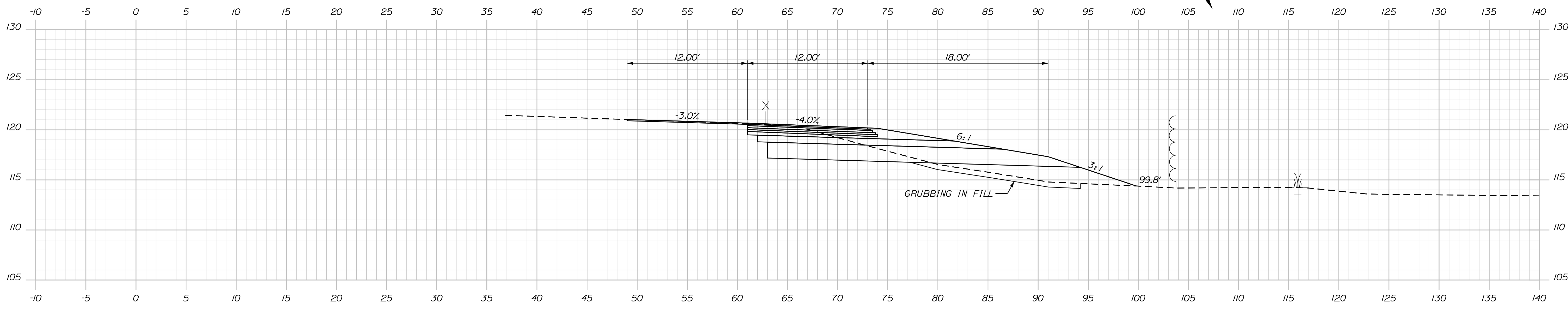


Date: 2/28/2022

Filename: ...MSTA\Xsect\_NB\_Turnpike.dgn



1770+45.86 (SKEWED)



1770+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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 FAX (207) 883-3376

**MAINE TURNPIKE**

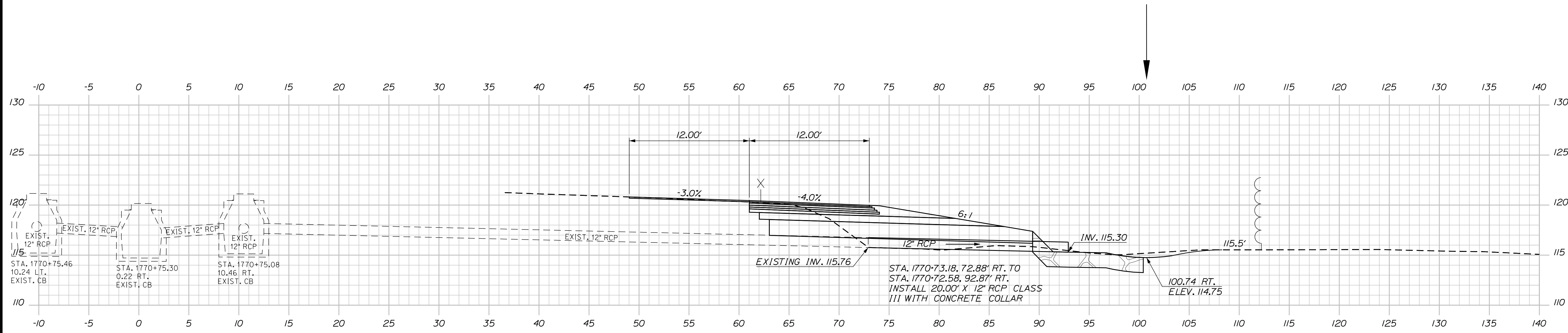
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

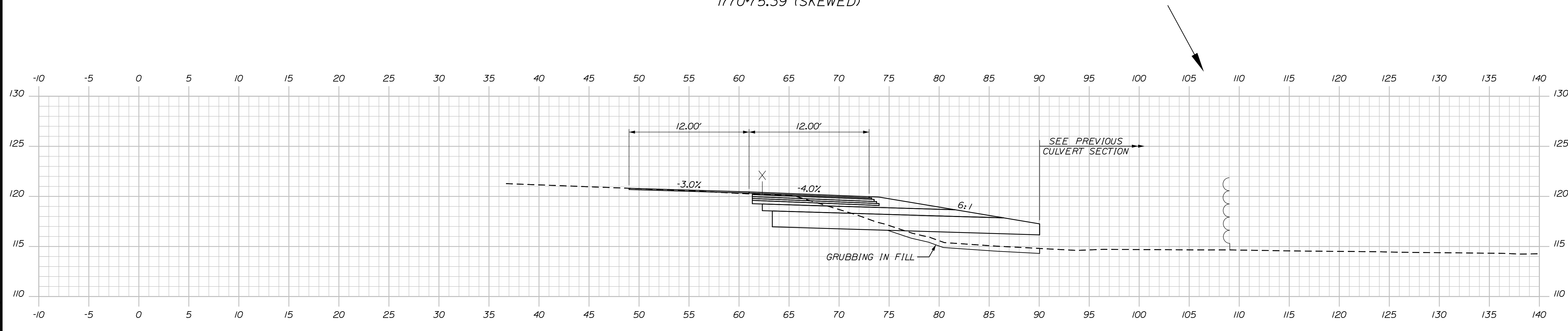
**EXIT 36 IMPROVEMENTS AND PAVEMENT REHABILITATION NB ON RAMP**  
 STA. 1770+00.00 TO STA. 1770+45.86

SHEET NUMBER: XS-06  
 CONTRACT: 2022.02  
 47 OF 56

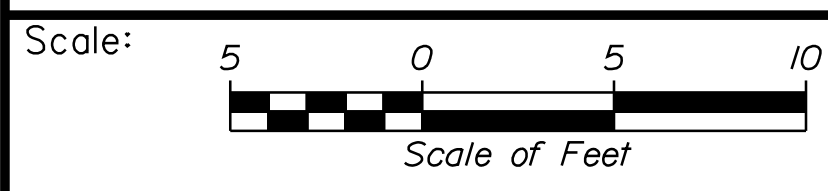
Date: 2/28/2022



1770+75.39 (SKEWED)



1770+50.00



Designed by:

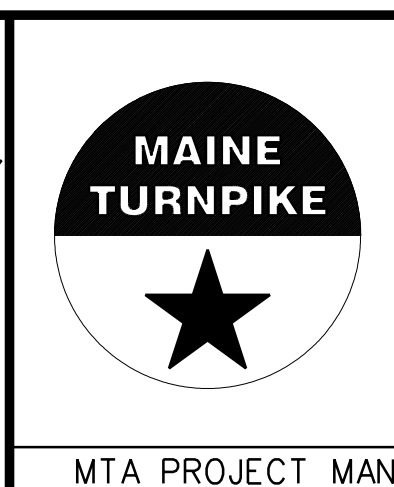
**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

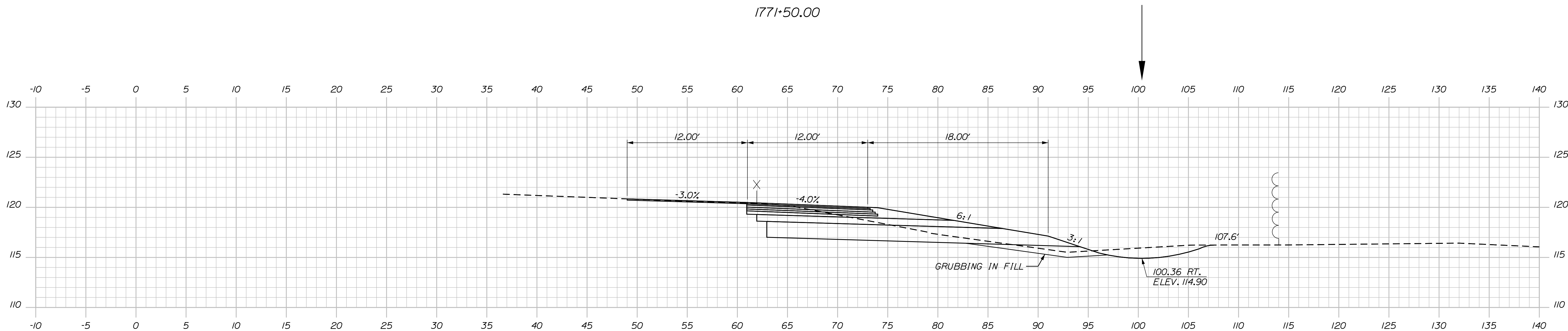
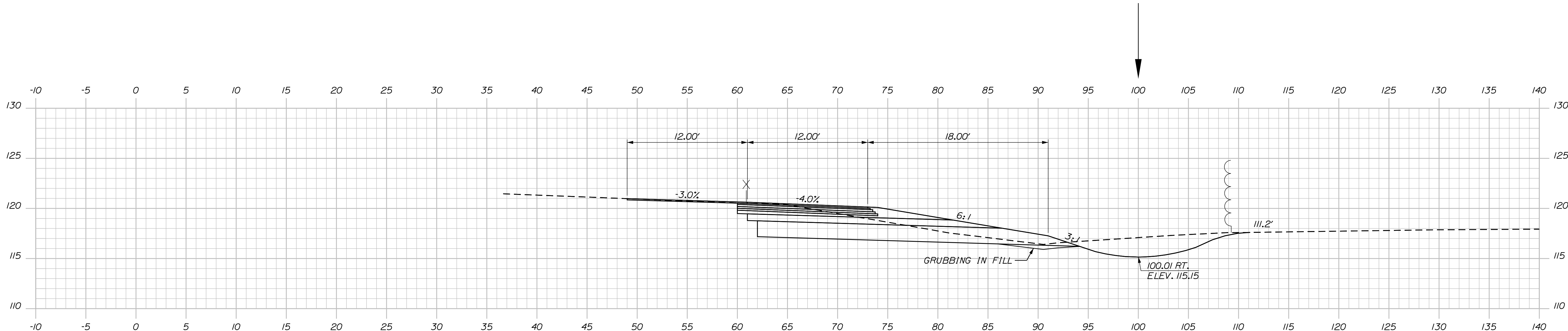
EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1770+50.00 TO STA. 1770+75.39

SHEET NUMBER: XS-07  
 CONTRACT: 2022.02  
 48 OF 56

Filename: ...MSTAV\sect\_NB\_Turnpike.dgn

Date: 2/28/2022

Filename: ...MSTAV\sect\_NB\_Turnpike.dgn



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1771+00.00 TO STA. 1771+50.00

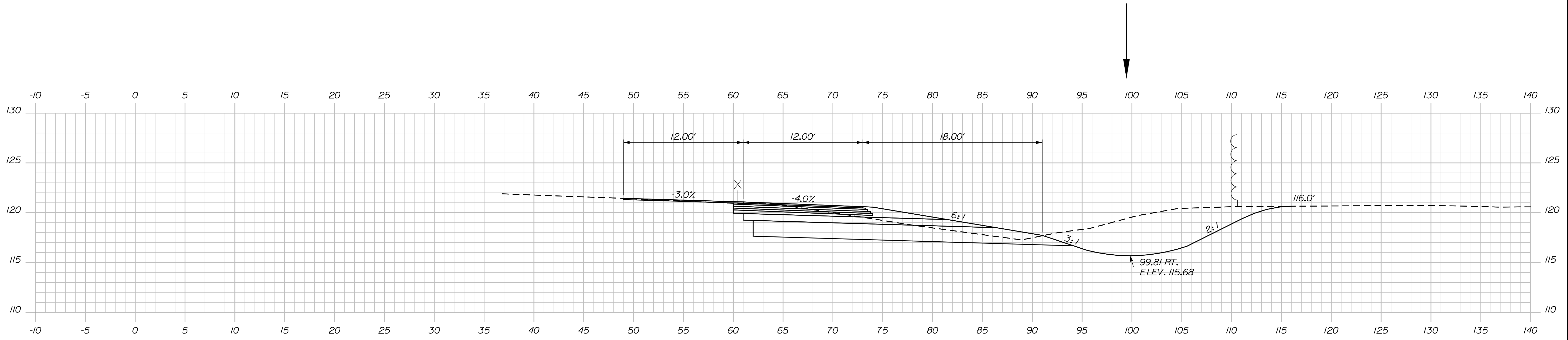
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CONTRACT: 2022.02

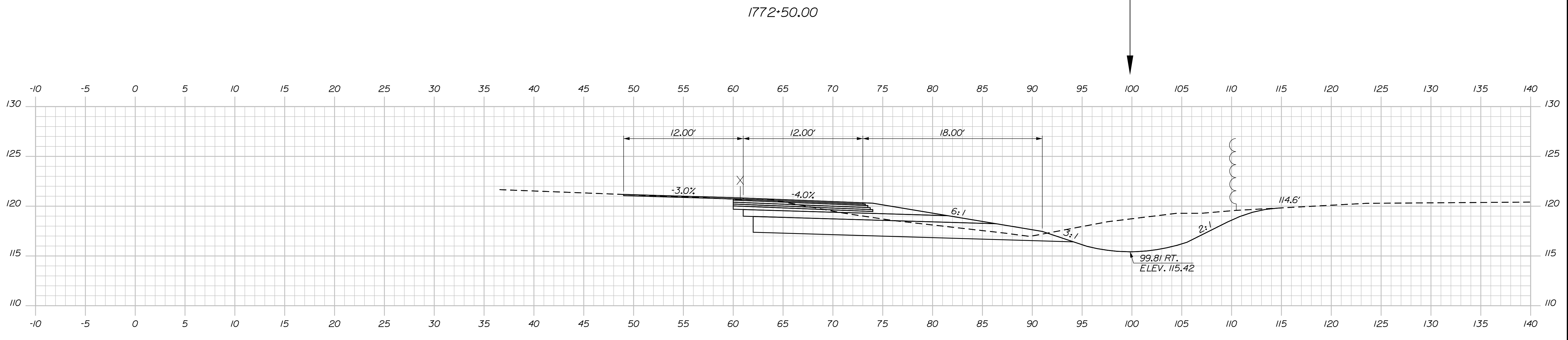
49 OF 56

Date: 2/28/2022

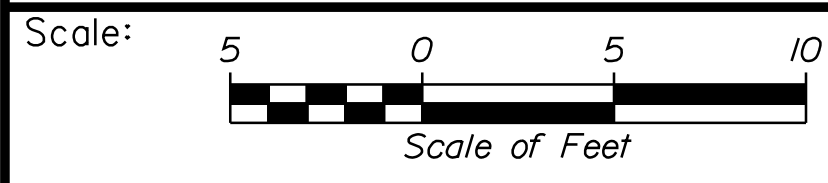
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1772+50.00




1772+00.00



No.	Revision	By	Date

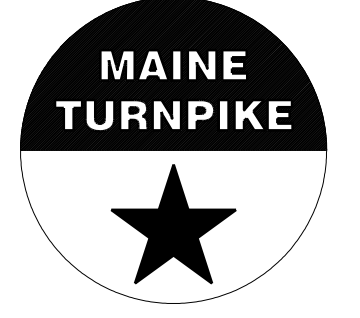
Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

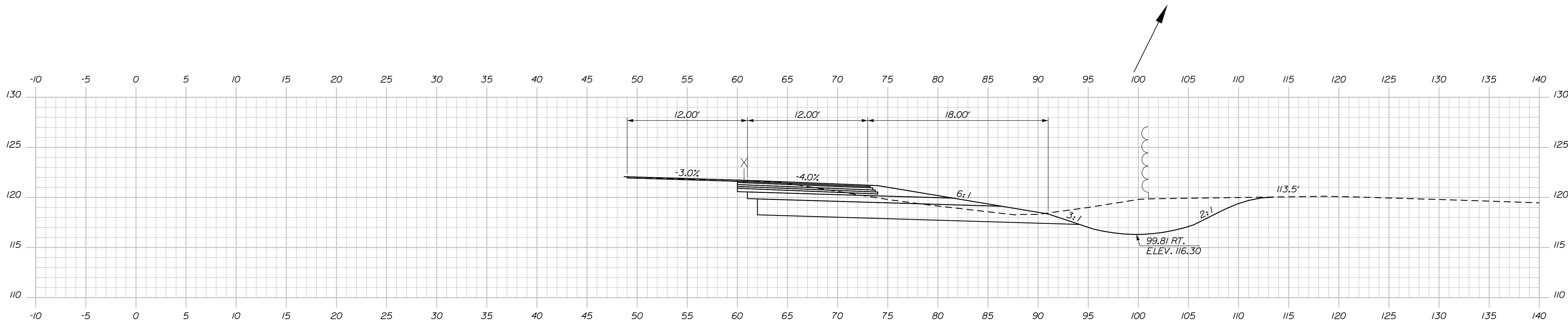
EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1772+00.00 TO STA. 1772+50.00

SHEET NUMBER: XS-09  
 CONTRACT: 2022.02  
 50 OF 56

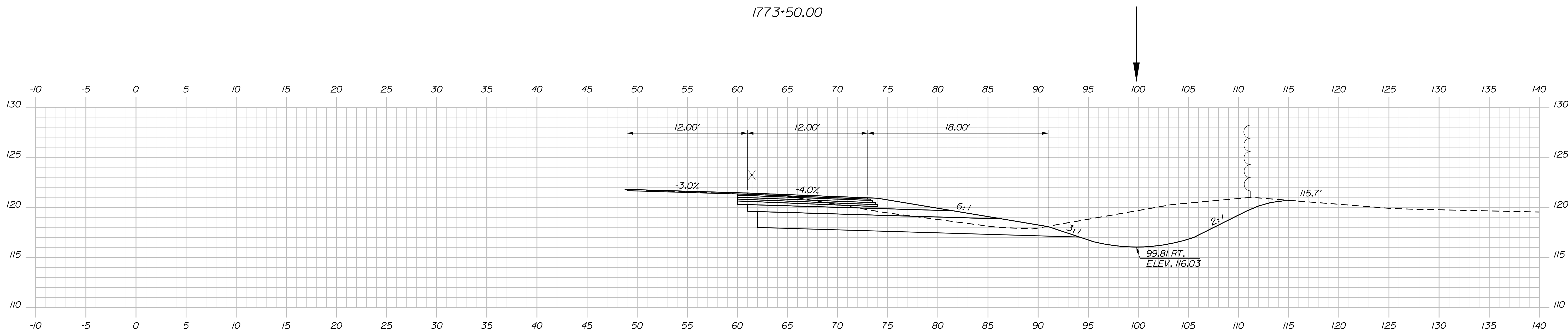


Date: 2/28/2022

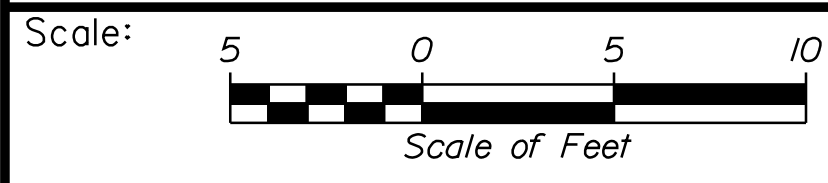
Filename: ...MSTAXsect\_NB\_Turnpike.dgn



1773+50.00



1773+00.00



No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

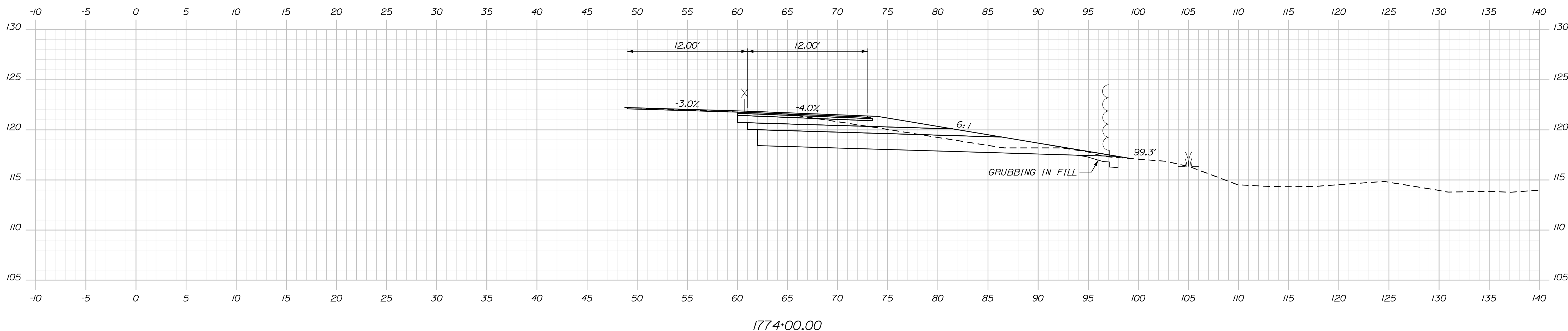
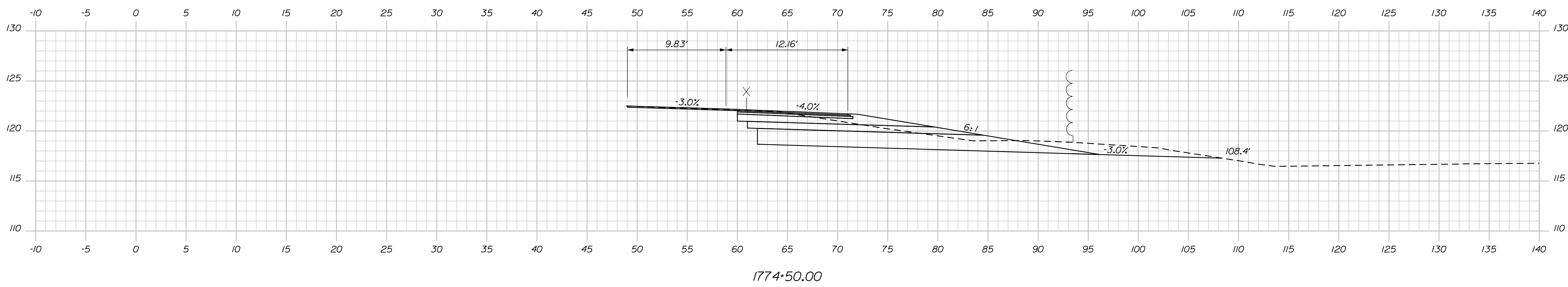
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1773+00.00 TO STA. 1773+50.00

SHEET NUMBER: XS-10  
 CONTRACT: 2022.02  
 51 OF 56

Date: 2/28/2022

Filename: ...MSTA\Xsect\_NB\_Turnpike.dgn



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1774+00.00 TO STA. 1774+50.00

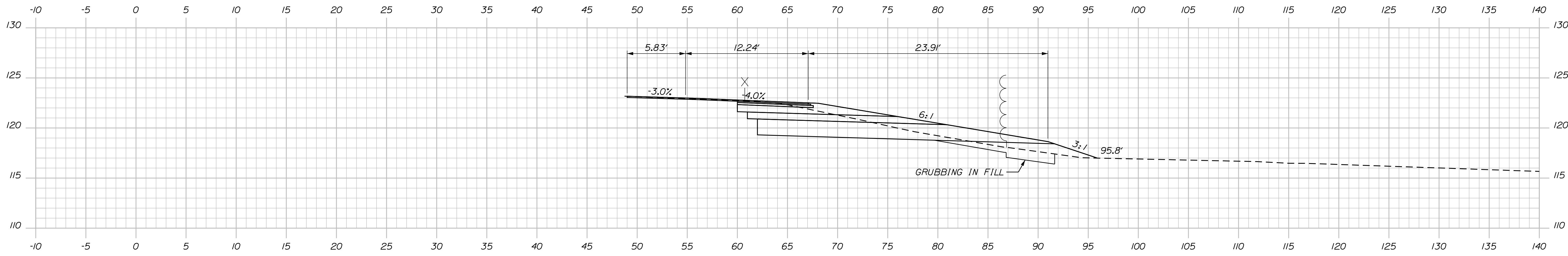
SHEET NUMBER: XS-11

CONTRACT: 2022.02

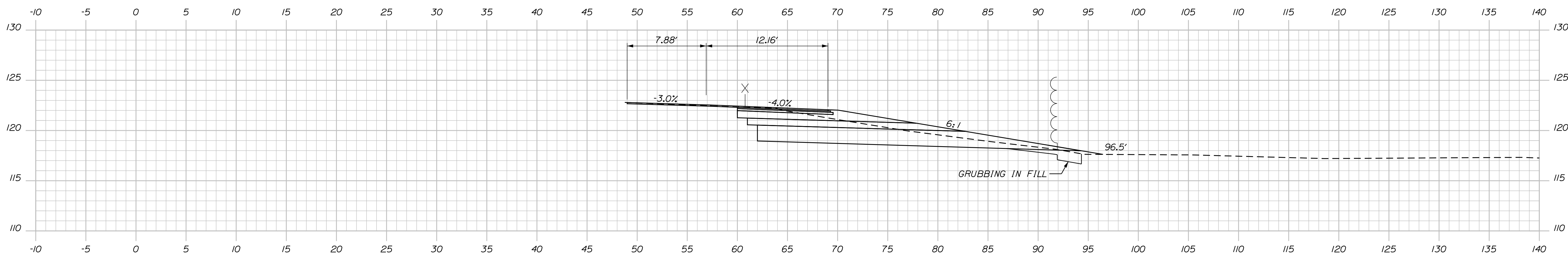
52 OF 56

Date: 2/28/2022

Filename: ...MSTAXsect\_NB\_Turnpike.dgn



1775+50.00



1775+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
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 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1775+00.00 TO STA. 1775+50.00

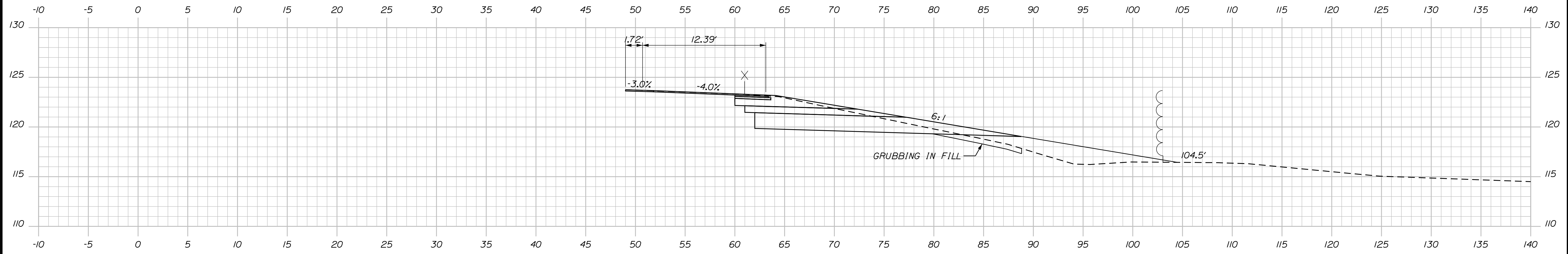
SHEET NUMBER: XS-12

CONTRACT: 2022.02

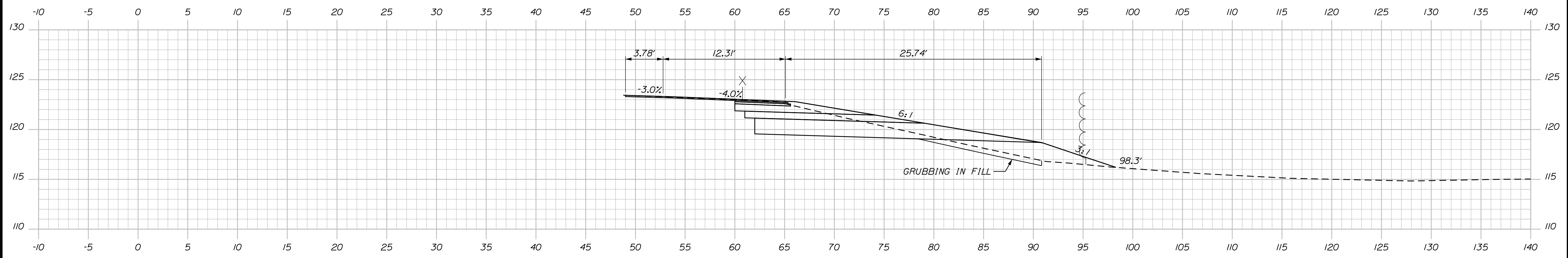
53 OF 56

Date: 2/28/2022

Filename: ...MSTAXsect\_NB\_Turnpike.dgn



1776+50.00



1776+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 36 IMPROVEMENTS  
 AND PAVEMENT REHABILITATION  
 NB ON RAMP  
 STA. 1776+00.00 TO STA. 1776+50.00

SHEET NUMBER: XS-13

CONTRACT: 2022.02

54 OF 56

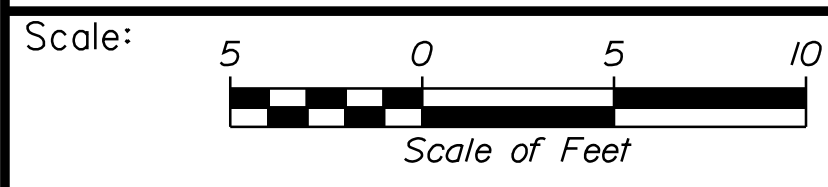
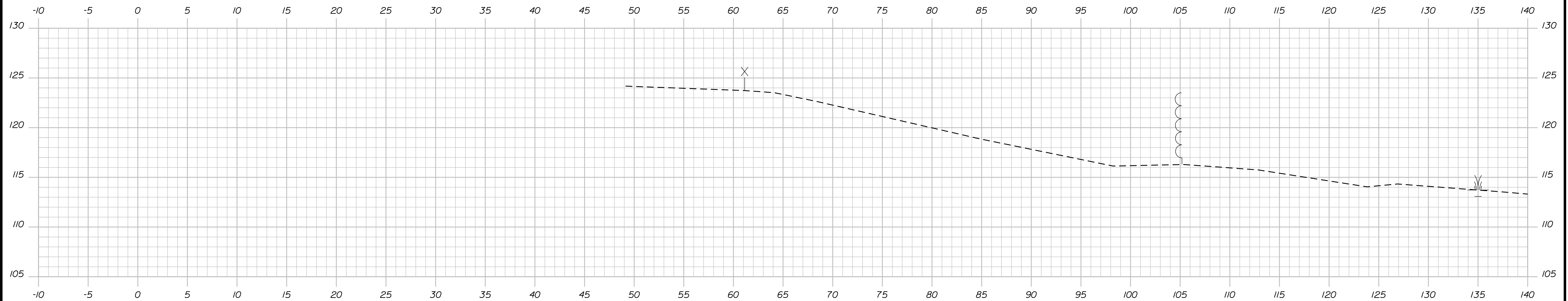


Date: 2/28/2022

Filename: ...MSTAXsect\_NB\_Turnpike.dgn

STA. 1777+10  
LIMIT OF WORK

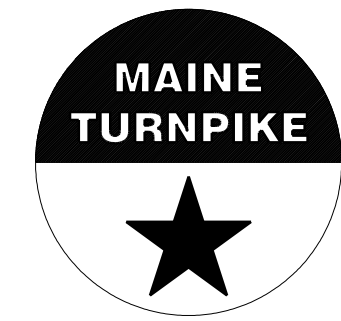
1777+00.00  
LIMIT OF SHOULDER WIDENING



Designed by:



STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376



THE GOLD STAR  
MEMORIAL HIGHWAY

EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
NB ON RAMP  
STA. 1777+00.00 TO STA. 1777+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.					
	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

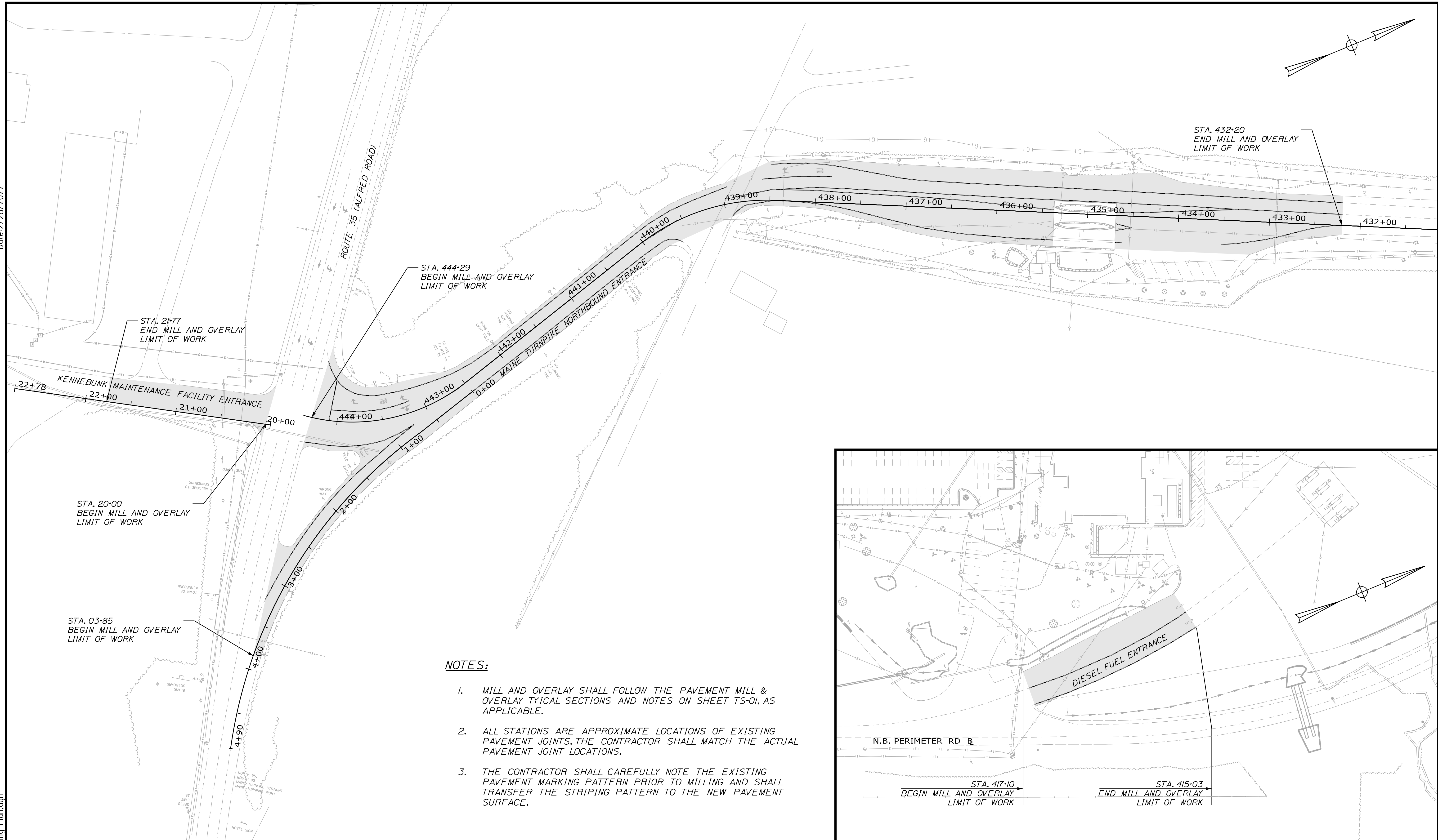
CONTRACT:2022.02

SHEET NUMBER: XS-14

55 OF 56

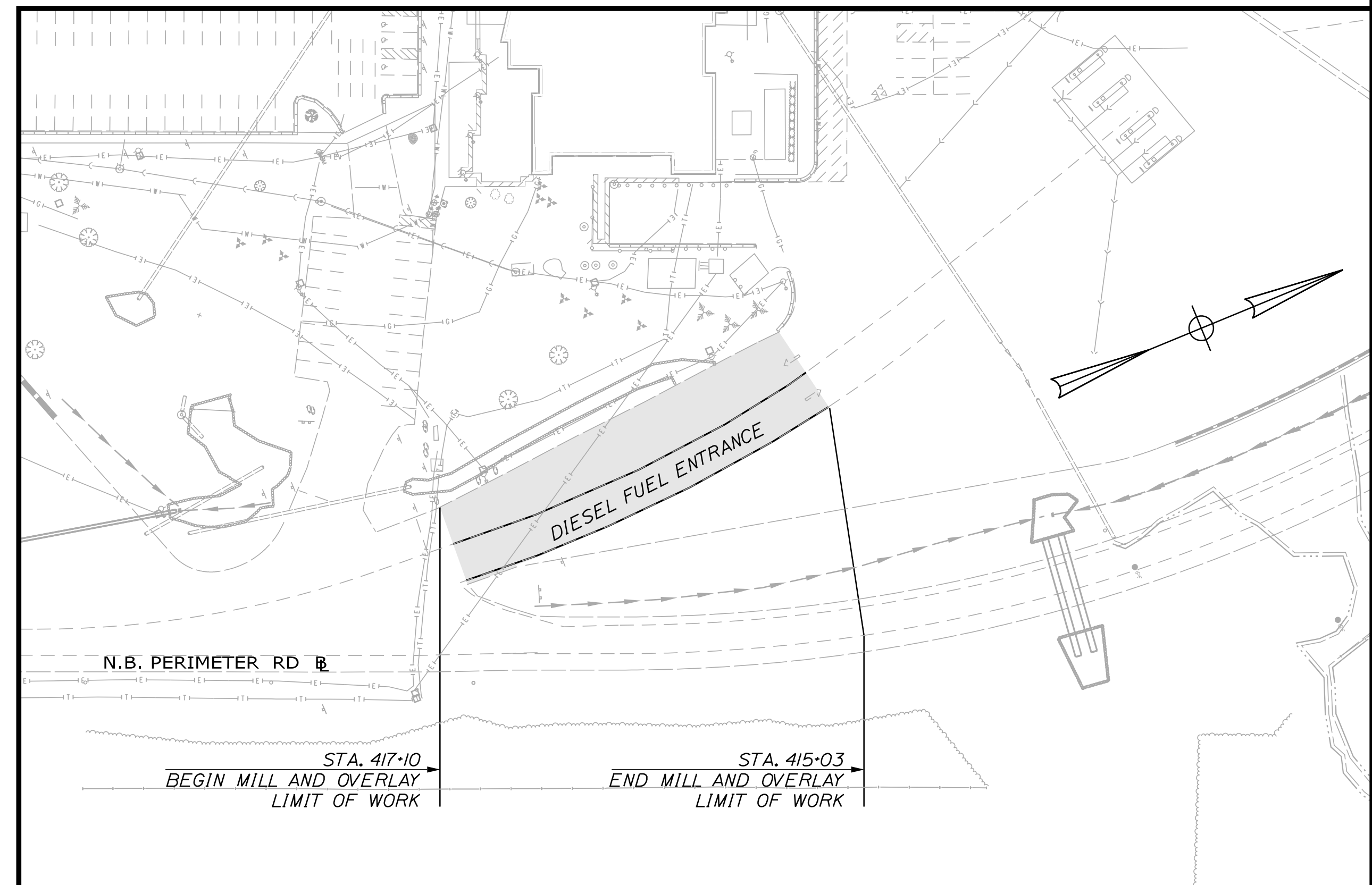
Date: 2/28/2022

Filename: ...Kennebunk Paving Plan.dgn



**NOTES:**


1. MILL AND OVERLAY SHALL FOLLOW THE PAVEMENT MILL & OVERLAY TYPICAL SECTIONS AND NOTES ON SHEET TS-01, AS APPLICABLE.
2. ALL STATIONS ARE APPROXIMATE LOCATIONS OF EXISTING PAVEMENT JOINTS. THE CONTRACTOR SHALL MATCH THE ACTUAL PAVEMENT JOINT LOCATIONS.
3. THE CONTRACTOR SHALL CAREFULLY NOTE THE EXISTING PAVEMENT MARKING PATTERN PRIOR TO MILLING AND SHALL TRANSFER THE STRIPING PATTERN TO THE NEW PAVEMENT SURFACE.



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

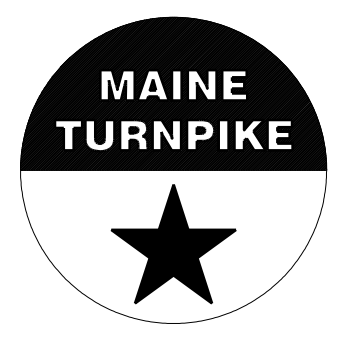
Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, P.E.

	By	Date		By	Date
Designed	THG	10\21	Checked	JRH	10\21
Drawn	CHL	10\21	In Charge of	JRH	10\21

STANTEC CONSULTING SERVICES INC.  
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FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

**EXIT 36 IMPROVEMENTS  
AND PAVEMENT REHABILITATION  
KENNEBUNK PAVING PLAN**

SHEET NUMBER: PP-01  
CONTRACT: 2022.02  
56 OF 56

Date: 2/25/2022

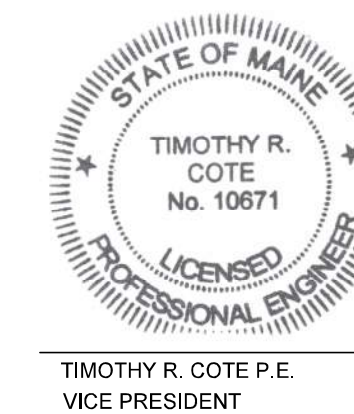
Filename: OXX\_Estimated Quantities.dgn

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	INDEX OF SHEETS & ESTIMATED QUANTITIES
A2	GENERAL PLAN
A3	SIGNING & STRIPING PLAN
A4	SIGN SUMMARY
A5	MISCELLANEOUS DETAILS
A6	SIGNAL PLAN
A7	MAST ARM FOUNDATION DETAIL

\*INFORMATION IN THE TABLE BELOW ARE NOT ITEM TOTALS. SEE EXIT 36 ESTIMATED QUANTITIES SHEETS (2 OF 56)

ESTIMATED QUANTITIES*			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
202.202	Removing Pavement Surface	20	SY
626.121	Quartzite Junction Box (36X24)	4	EA
626.22	Non-Metallic Conduit	950	LF
626.32	24-Inch Diameter Foundation	1	EA
626.35	Controller Cabinet Foundation	1	EA
626.36	Remove or Modify Concrete Foundation	4	EA
626.48	60-Inch Diameter Foundation	48	LF
627.733	4" White or Yellow Painted Pavement Marking Line	340	LF
627.75	White or Yellow Pavement & Curb Marking	500	SF
627.77	Removing Existing Pavement Marking	2150	SF
627.944	Pavement Markings - Recessed Tape - Words, Arrows, Stop Bars	60	SF
643.71	Traffic Signal Modification at: Exit 32 and Route 111	1	LS
643.9111	Reset Existing Mast Arm Poles: MA4 - Exit 32	1	LS
643.9112	Reset Existing Mast Arm Poles: MA3 - Exit 32	1	LS
643.9113	Reset Existing Mast Arm Poles: Exit 42	1	LS
643.92	Pedestal Pole	1	LS
645.105	Remove and Stack Sign	5	EA
645.109	Remove and Reset Sign	3	EA
645.271	Regulatory Warning Confirmation Route Sign, Type 1	35	SF
652.33	Drum	60	EA
652.34	Cone	60	EA
652.35	Construction Signs	190	SF
652.38	Flaggers	150	HR
652.381	Traffic Officers	33	HR
652.45	Truck Mounted Attenuator	1	CD

**HNTB** SHEETS A1 - A7



*Timothy R. Cote*

02/25/2022

TIMOTHY R. COTE P.E.  
VICE PRESIDENT

DATE

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>HNTB</b>					
CONSULTANT PROJECT MANAGER: PHIL KENDALL					
	By	Date		By	Date
Designed	DEB	01/22	Checked	PEK	01/22
Drawn	DEB	01/22	In Charge of	TRC	01/22

HNTB CORPORATION  
82 Running Hill Road, Suite 201  
South Portland, ME 04106  
TEL (207) 774-5155  
FAX (207) 228-0909

THE GOLD STAR  
MEMORIAL HIGHWAY

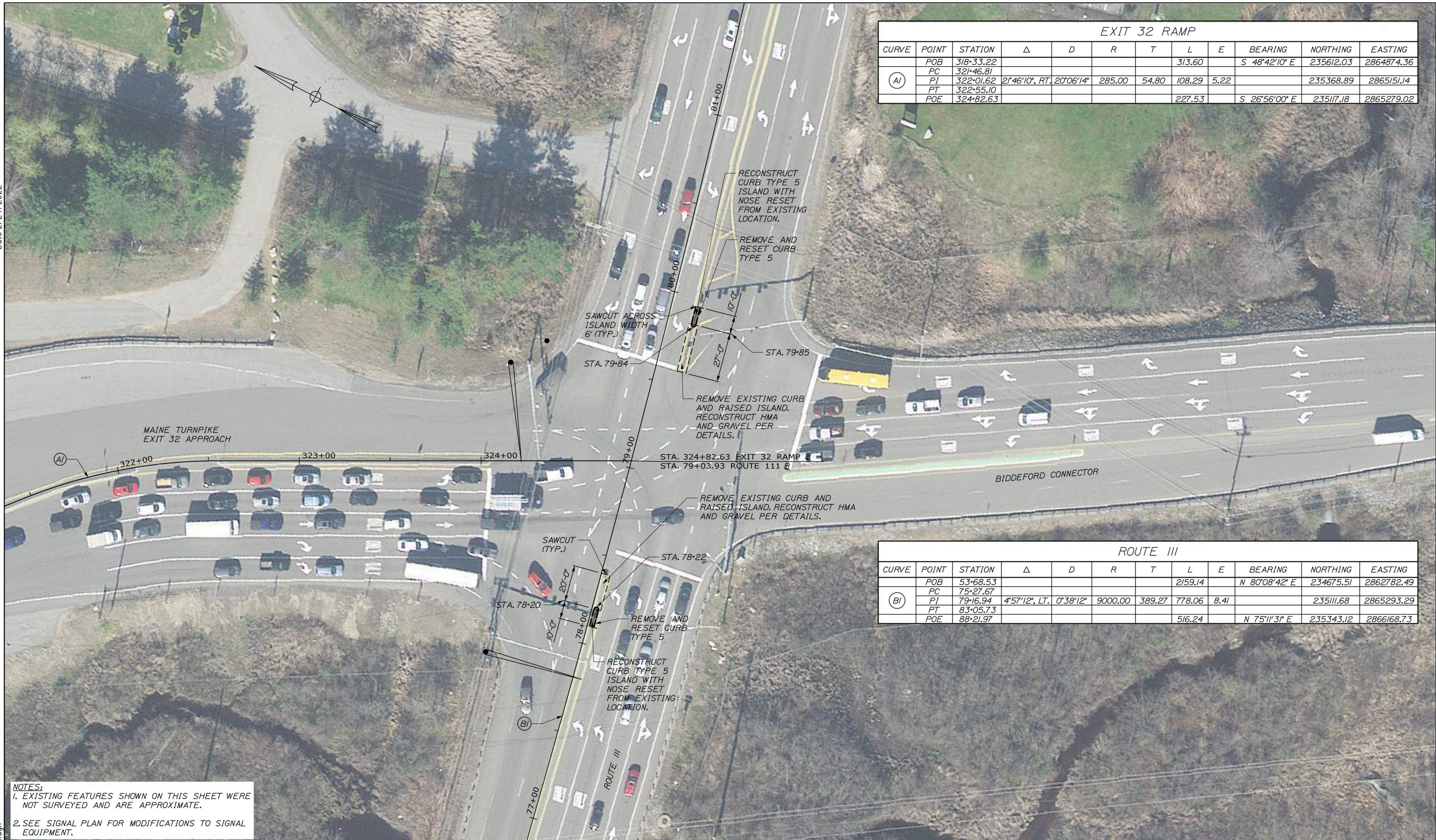
MTA PROJECT MANAGER: STEPHEN R. TARTRE

EXIT 32 INTERSECTION MODIFICATION  
INDEX OF SHEETS &  
ESTIMATED QUANTITIES

SHEET NUMBER: QT-1  
CONTRACT: 2022.02  
A1 OF A7



Date: 2/24/2022



EXIT 32 RAMP											
CURVE	POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
(A1)	POB	318+33.22					313.60		S 48°42'10" E	235612.03	2864874.36
	PC	321+46.81									
	PI	322+01.62	21°46'10", RT.	20°06'14"	285.00	54.80	108.29	5.22		235368.89	2865151.14
	POE	324+82.63					227.53		S 26°56'00" E	235117.18	2865279.02

ROUTE 111											
CURVE	POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
(B1)	POB	53+68.53					2159.14		N 80°08'42" E	234675.51	2862782.49
	PC	75+27.67									
	PI	79+16.94	4°57'12", LT.	0°38'12"	9000.00	389.27	778.06	8.41		235111.68	2865293.29
	PT	83+05.73									
	POE	88+21.97					516.24		N 75°11'31" E	235343.12	2866168.73

**NOTES:**  
 1. EXISTING FEATURES SHOWN ON THIS SHEET WERE NOT SURVEYED AND ARE APPROXIMATE.  
 2. SEE SIGNAL PLAN FOR MODIFICATIONS TO SIGNAL EQUIPMENT.

Scale: 25 0 25 50  
 Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: PHIL KENDALL

	By	Date		By	Date
Designed	CDH	01/22	Checked	PEK	01/22
Drawn	CDH	01/22	In Charge of	TRC	01/22

HNTB CORPORATION  
 82 Running Hill Road, Suite 201  
 South Portland, ME 04106  
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 FAX (207) 228-0909

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: STEPHEN R. TARTRE

EXIT 32 INTERSECTION MODIFICATION

GENERAL PLAN

SHEET NUMBER: GEN-1

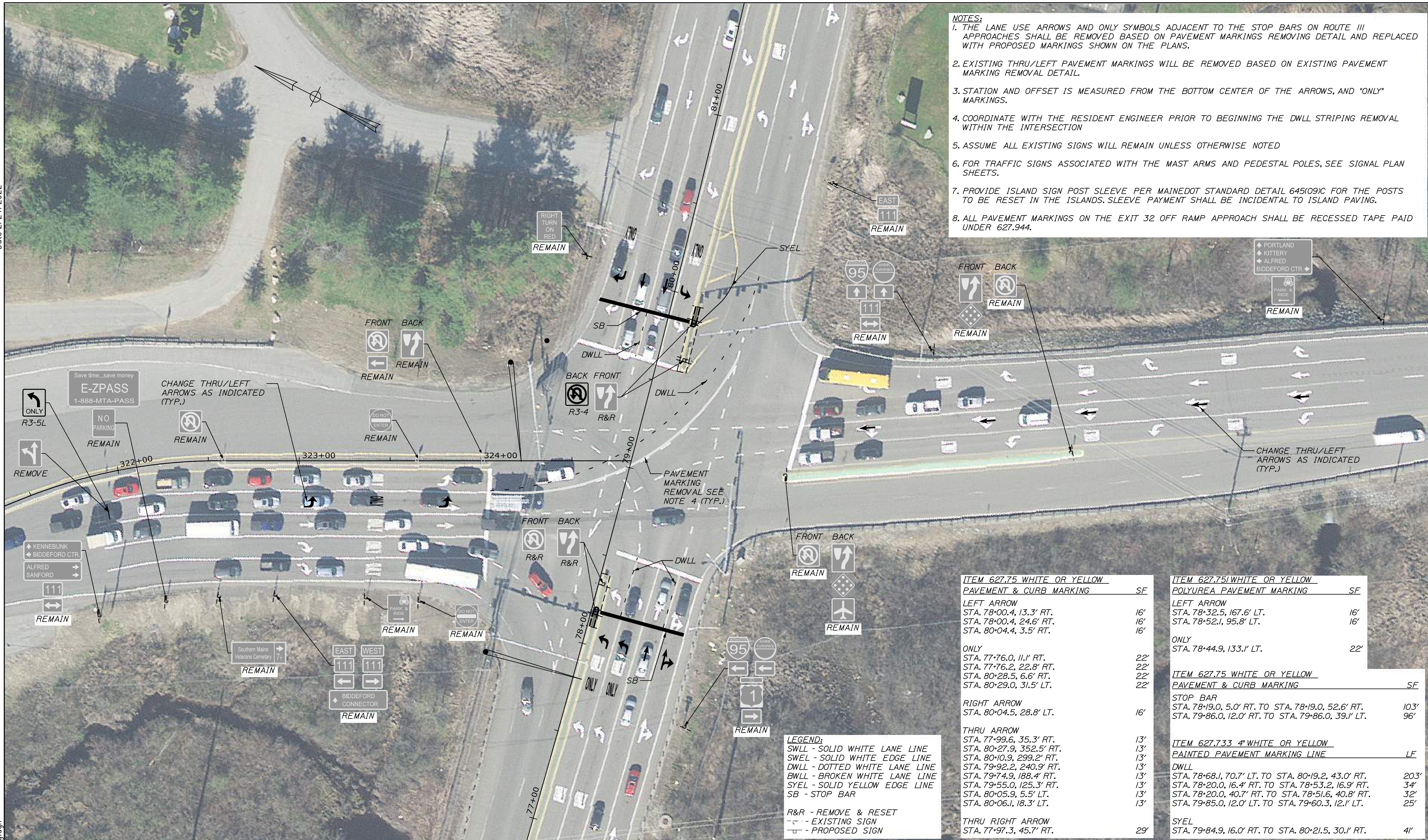
CONTRACT: 2022.02

A2 OF A7

Filename: OXX\_GeneralPlan\_01.dgn



Date: 2/24/2022



- NOTES:**
1. THE LANE USE ARROWS AND ONLY SYMBOLS ADJACENT TO THE STOP BARS ON ROUTE 111 APPROACHES SHALL BE REMOVED BASED ON PAVEMENT MARKINGS REMOVING DETAIL AND REPLACED WITH PROPOSED MARKINGS SHOWN ON THE PLANS.
  2. EXISTING THRU/LEFT PAVEMENT MARKINGS WILL BE REMOVED BASED ON EXISTING PAVEMENT MARKING REMOVAL DETAIL.
  3. STATION AND OFFSET IS MEASURED FROM THE BOTTOM CENTER OF THE ARROWS, AND "ONLY" MARKINGS.
  4. COORDINATE WITH THE RESIDENT ENGINEER PRIOR TO BEGINNING THE DWLL STRIPING REMOVAL WITHIN THE INTERSECTION
  5. ASSUME ALL EXISTING SIGNS WILL REMAIN UNLESS OTHERWISE NOTED
  6. FOR TRAFFIC SIGNS ASSOCIATED WITH THE MAST ARMS AND PEDESTAL POLES, SEE SIGNAL PLAN SHEETS.
  7. PROVIDE ISLAND SIGN POST SLEEVE PER MAINE DOT STANDARD DETAIL 645(09)C FOR THE POSTS TO BE RESET IN THE ISLANDS. SLEEVE PAYMENT SHALL BE INCIDENTAL TO ISLAND PAVING.
  8. ALL PAVEMENT MARKINGS ON THE EXIT 32 OFF RAMP APPROACH SHALL BE RECESSED TAPE PAID UNDER 627.944.

ITEM 627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	SF	ITEM 627.75 WHITE OR YELLOW POLYUREA PAVEMENT MARKING	SF
LEFT ARROW		LEFT ARROW	
STA. 78+00.4, 13.3' RT.	16'	STA. 78+32.5, 167.6' LT.	16'
STA. 78+00.4, 24.6' RT.	16'	STA. 78+52.1, 95.8' LT.	16'
STA. 80+04.4, 3.5' RT.	16'		
ONLY		ONLY	
STA. 77+76.0, 11.1' RT.	22'	STA. 78+44.9, 133.1' LT.	22'
STA. 77+76.2, 22.8' RT.	22'		
STA. 80+28.5, 6.6' RT.	22'		
STA. 80+29.0, 31.5' LT.	22'		
RIGHT ARROW		ITEM 627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	SF
STA. 80+04.5, 28.8' LT.	16'	STOP BAR	
		STA. 78+19.0, 5.0' RT. TO STA. 78+19.0, 52.6' RT.	103'
		STA. 79+86.0, 12.0' RT. TO STA. 79+86.0, 39.1' LT.	96'
THRU ARROW		ITEM 627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	LF
STA. 77+99.6, 35.3' RT.	13'	DWLL	
STA. 80+27.9, 352.5' RT.	13'	STA. 78+68.1, 70.7' LT. TO STA. 80+19.2, 43.0' RT.	203'
STA. 80+10.9, 299.2' RT.	13'	STA. 78+20.0, 16.4' RT. TO STA. 78+53.2, 16.9' RT.	34'
STA. 79+92.2, 240.9' RT.	13'	STA. 78+20.0, 40.7' RT. TO STA. 78+51.6, 40.8' RT.	32'
STA. 79+74.9, 188.4' RT.	13'	STA. 79+85.0, 12.0' LT. TO STA. 79+60.3, 12.1' LT.	25'
STA. 79+55.0, 125.3' RT.	13'		
STA. 80+05.9, 5.5' LT.	13'	SYEL	
STA. 80+06.1, 18.3' LT.	13'	STA. 79+84.9, 16.0' RT. TO STA. 80+21.5, 30.1' RT.	41'
THRU RIGHT ARROW			
STA. 77+97.3, 45.7' RT.	29'		

**LEGEND:**  
 SWLL - SOLID WHITE LANE LINE  
 SWEL - SOLID WHITE EDGE LINE  
 DWLL - DOTTED WHITE LANE LINE  
 BWLL - BROKEN WHITE LANE LINE  
 SYEL - SOLID YELLOW EDGE LINE  
 SB - STOP BAR  
 R&R - REMOVE & RESET  
 [Symbol] - EXISTING SIGN  
 [Symbol] - PROPOSED SIGN

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

HNTB CORPORATION  
 82 Running Hill Road, Suite 201  
 South Portland, ME 04106  
 TEL (207) 774-5155  
 FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: PHIL KENDALL					
	By	Date		By	Date
Designed	DEB	01/22	Checked	PEK	01/22
Drawn	DEB	01/22	In Charge of	TRC	01/22

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: STEPHEN R. TARTRE

EXIT 32 INTERSECTION MODIFICATION

SIGNING & STRIPING PLAN

SHEET NUMBER: SGN-1

A3 OF A7

CONTRACT: 2022.02

Filename: OXX\_Signing&Striping.dgn



EXIT 32 REMOVE AND RESET SIGN SUMMARY

DESCRIPTION	QUANTITY	EXISTING								PROPOSED							COMMENTS			
		SIGN SIZE			COLOR		DIRECTION (EB-EASTBOUND) (WB-WESTBOUND)	LOCATION	OFFSET	NUMBER OF POSTS	POST SIZE	HEIGHT OF POST		FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (EB-EASTBOUND) (WB-WESTBOUND)		LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK- GROUND	LEGEND						LEFT (FEET)	RIGHT (FEET)							
	1	30	24	5 (5)	WHITE	BLACK	EB	79+66	RT	1	U CHANNEL POST	POST HEIGHT TO BE SIZED TO MEET MUTCD MOUNTING REQUIREMENTS		-	YES	EB	79+87	RT	645.109	
	1	30	24	5 (5)	WHITE	BLACK	WB	78+34	RT	1	U CHANNEL POST	↓ ↓		-	YES	WB	78+17	RT	645.109	
	1	24	24	4 (4)	WHITE	BLACK	EB	78+34	RT							EB	78+17	RT	645.109	

EXIT 32 PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK- GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)							
R3-5a		1	36	30	7.5 (7.5)	WHITE	BLACK	-	-	MOUNT TO OVERHEAD MAST ARM (MA3) FOR BIDDEFORD CONNECTOR			-	-	NB	79+50	LT	645.271	SEE SIGNAL PLANS FOR LOCATION
R3-5L		1	36	30	7.5 (7.5)	WHITE	BLACK	-	-	MOUNT TO OVERHEAD MAST ARM FOR EXIT 32 OFF RAMP			-	-	SB	79+00	RT	645.271	SEE SIGNAL PLANS FOR LOCATION
R3-5L*		1	36	30	7.5 (7.5)	WHITE	BLACK	-	-	MOUNT TO OVERHEAD WIRE ON EXIT 32 OFF RAMP APPROACH			-	-	SB	78+00	LT	645.271	SEE SIGNING & STRIPING PLANS FOR LOCATION
R3-4		1	24	24	4 (4)	WHITE	BLACK	-	-	MOUNT TO EXISTING R&R SIGN R4-7			-	-	WB	79+87	RT	645.271	SEE SIGNING & STRIPING PLANS FOR LOCATION
CS-3		1	48	24	8 (8)	WHITE	BLACK	-	-	MOUNT TO OVERHEAD MAST ARM FOR EXIT 32 OFF RAMP			-	-	SB	78+75	RT	645.271	SEE SIGNAL PLANS FOR LOCATION

\*SPAN WIRE MOUNTED SIGNS SHALL HAVE WIND HOLES

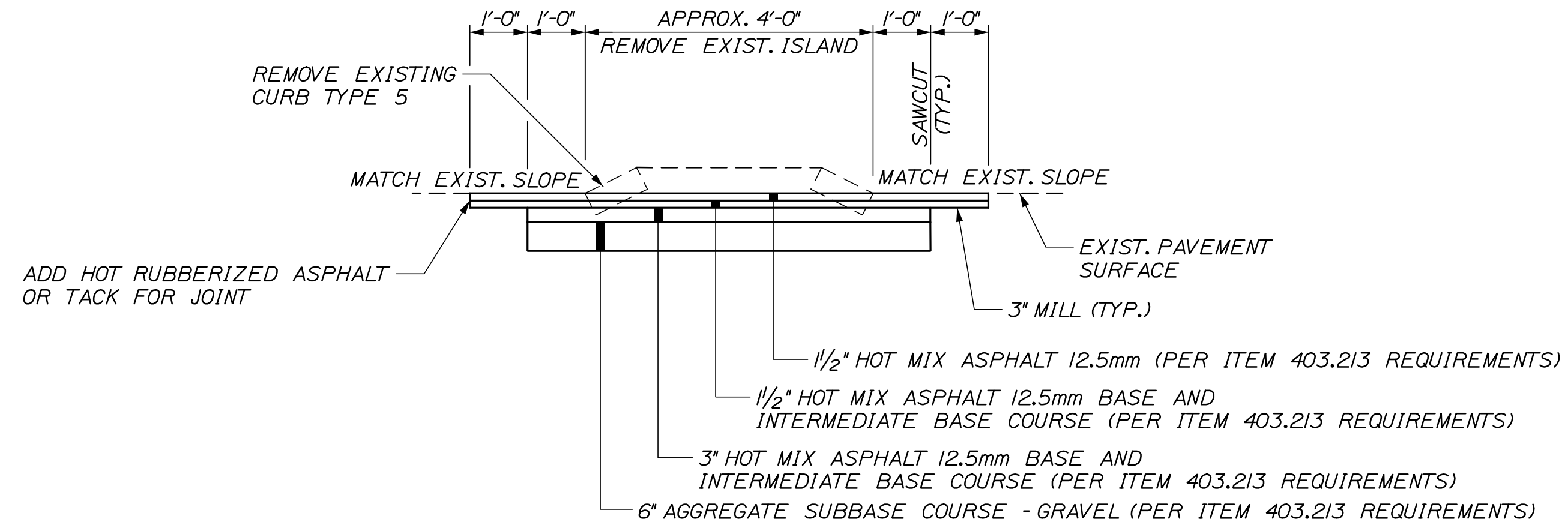
EXIT 32 REMOVE AND STACK SIGN SUMMARY

DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK- GROUND	LEGEND			
	2	36	30	7.5 (15)	WHITE	BLACK	NB SB	79+50 78+50	RT LT
	1	36	30	7.5 (7.5)	WHITE	BLACK	NB	78+00	LT
	1	42	24	7 (7)	WHITE	BLACK	SB	78+75	RT
	1	42	24	7 (7)	WHITE	BLACK	SB	78+75	RT

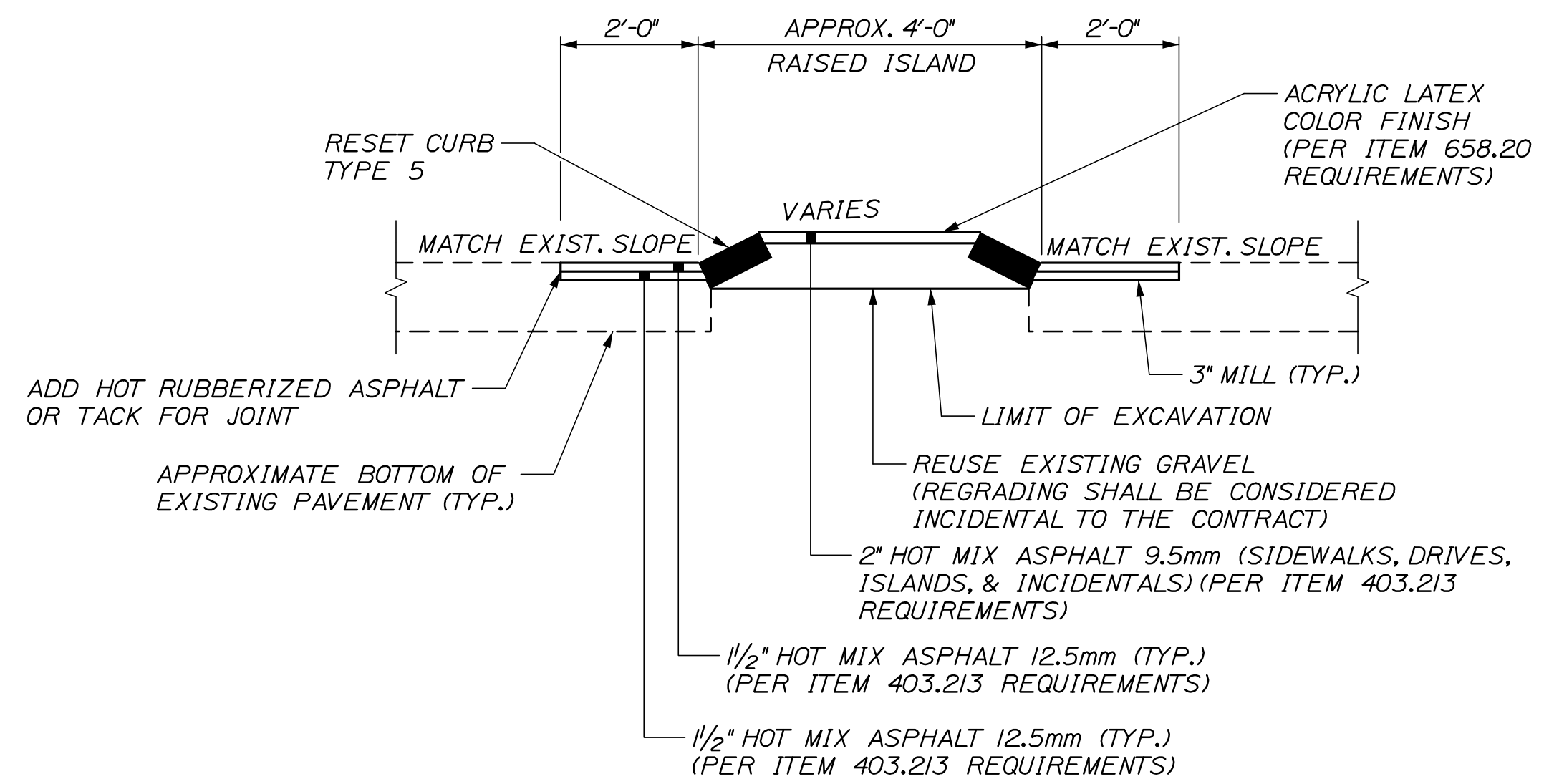
Filename: OXX\_Sign\_Summary.dgn

Scale: NOT TO SCALE		Designed by:				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY		EXIT 32 INTERSECTION MODIFICATION  SIGN SUMMARY		SHEET NUMBER: SGN-2 A4 OF A7	
No.	Revision	By	Date												
				By	Date	By	Date								
				Designed	DEB 01/22	Checked	PEK 01/22								
				Drawn	DEB 01/22	In Charge of	TRC 01/22								

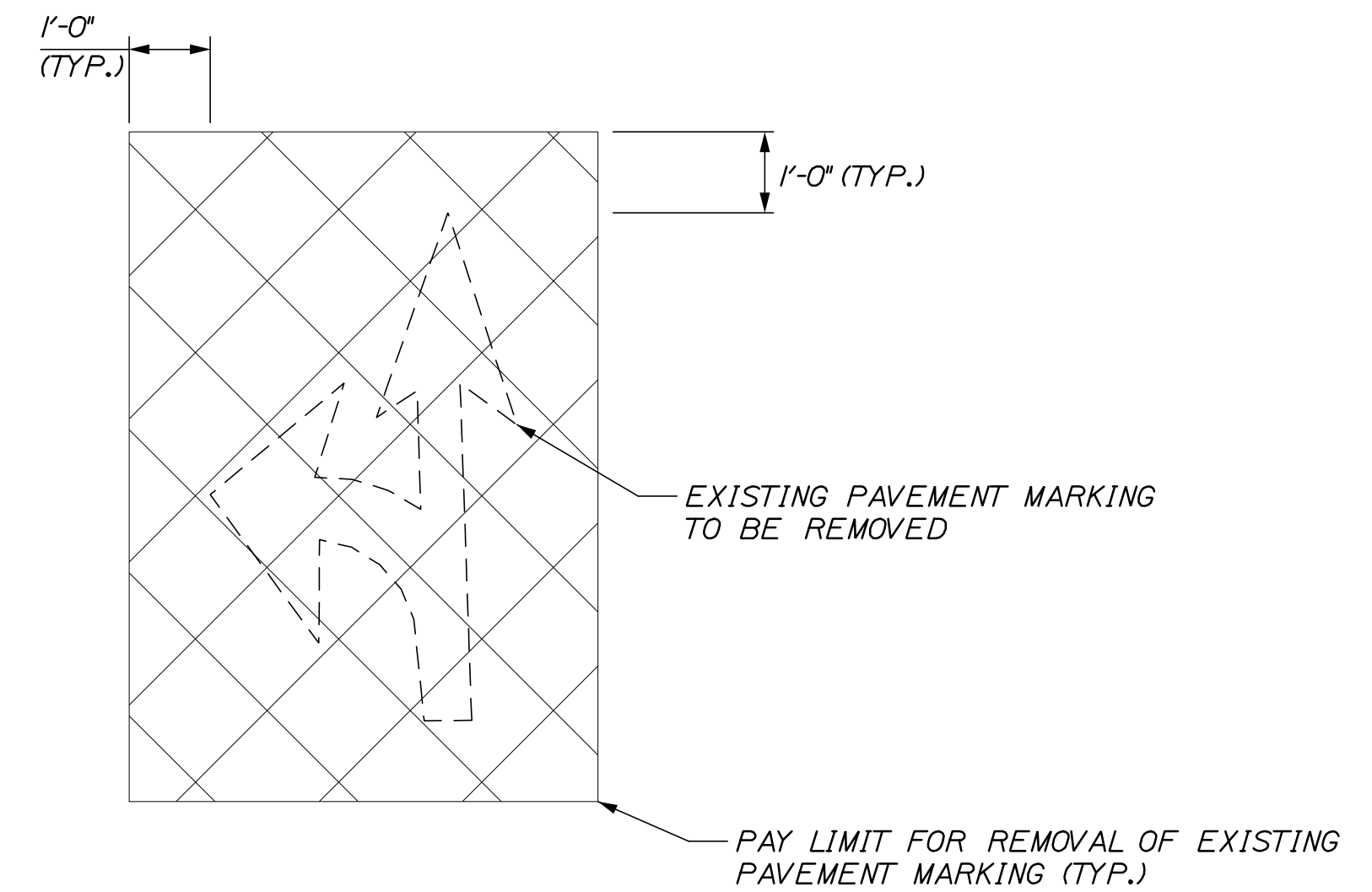
Date: 2/25/2022



**REMOVAL OF EXISTING RAISED ISLAND**  
N.T.S.



**REMOVE AND RESET CURB TYPE 5**  
N.T.S.



**EXISTING PAVEMENT MARKING REMOVAL**  
N.T.S.

**RAISED ISLAND NOTES:**

- ISLAND RECONSTRUCTION WORK WILL BE INCIDENTAL TO THE TRAFFIC SIGNAL MODIFICATION WORK (ITEM 643.71).
- THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
- ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER AS TO LEAVE A CLEAN, VERTICAL FACE.
- ACRYLIC LATEX COLOR FINISH SHALL BE APPLIED TO THE FINISHED SURFACE OF THE RECONSTRUCTED RAISED ISLAND IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 658.
- EXCAVATION FOR ISLAND RECONSTRUCTION IS LIMITED TO THE INSIDE OF CURBING. ANY ADDITIONAL EXCAVATIONS FOR ISLAND RECONSTRUCTION WILL BE CONSIDERED INCIDENTAL.
- ALL EXCAVATION COMPACTION NEEDS TO BE COMPLETED PRIOR TO RESETTING THE CURBING OR ADDING AN ADDITIONAL FILL MATERIAL.
- PROVIDE ISLAND SIGN POST SLEEVE PER MAINEDOT STANDARD DETAIL 645(09)C FOR THE POSTS TO BE RESET IN THE ISLANDS.

Filename: OXX\_Misc\_Details.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
<b>HNTB</b>					
CONSULTANT PROJECT MANAGER: PHIL KENDALL					
	By	Date		By	Date
Designed	CDH	01/22	Checked	PEK	01/22
Drawn	CDH	01/22	In Charge of	TRC	01/22

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FAX (207) 228-0909

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: STEPHEN R. TARTRE

EXIT 32 INTERSECTION MODIFICATION

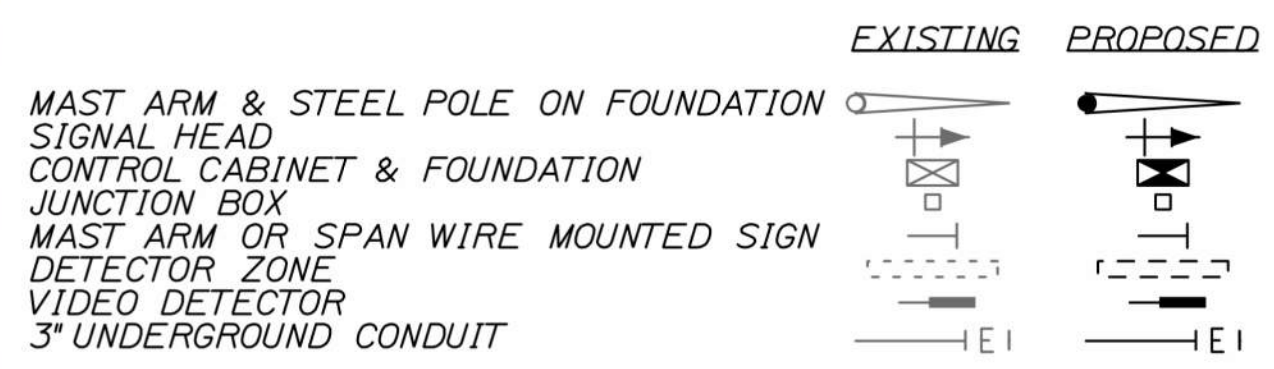
MISCELLANEOUS DETAILS

SHEET NUMBER: DTL-1  
A5 OF A7

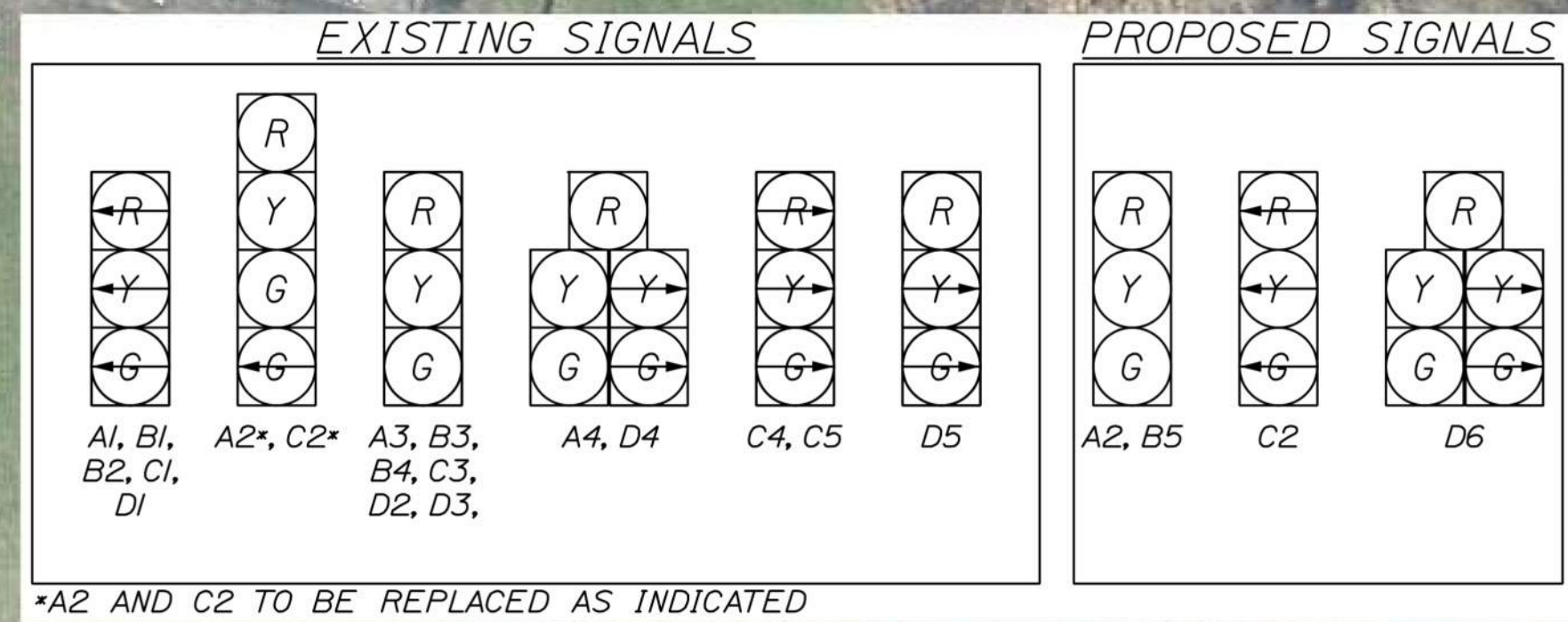
CONTRACT: 2022.02



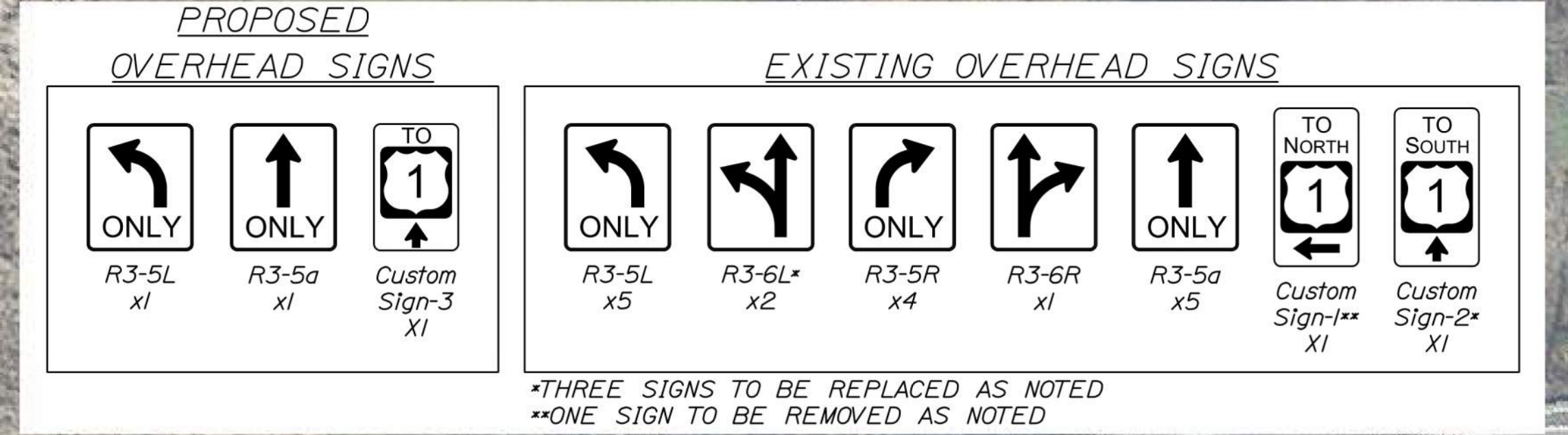
**SIGNAL PLAN LEGEND**



- NOTES:**
- EXISTING FEATURES AND UTILITIES SHOWN ON THIS SHEET WERE NOT SURVEYED AND ARE APPROXIMATE. MAST ARM FOUNDATIONS LOCATIONS SHALL BE FIELD VERIFIED AND CONFIRMED BY THE RESIDENT.
  - PROPOSED SIGNAL TIMING AND PHASING IS INCLUDED SEPARATELY AS AN APPENDIX TO THE 643 SPECIFICATION.
  - ALL WIRING IS TO BE REPLACED THROUGHOUT THE INTERSECTION UNLESS OTHERWISE SPECIFIED BY MTA STAFF.
  - MAST ARM AND CONTROL CABINET LOCATIONS ARE APPROXIMATE. LOCATIONS ARE TO BE FIELD VERIFIED BY MTA STAFF.
  - ALL EQUIPMENT AND WORK ITEMS HAVE APPROXIMATED QUANTITIES.
  - SEE SIGNING AND STRIPING PLANS FOR STRIPING AND ADDITIONAL SIGN MODIFICATIONS.
  - EXISTING MAST ARMS AND POLES (MA3 & MA4) TO BE RELOCATED TO NEW FOUNDATIONS AS SHOWN

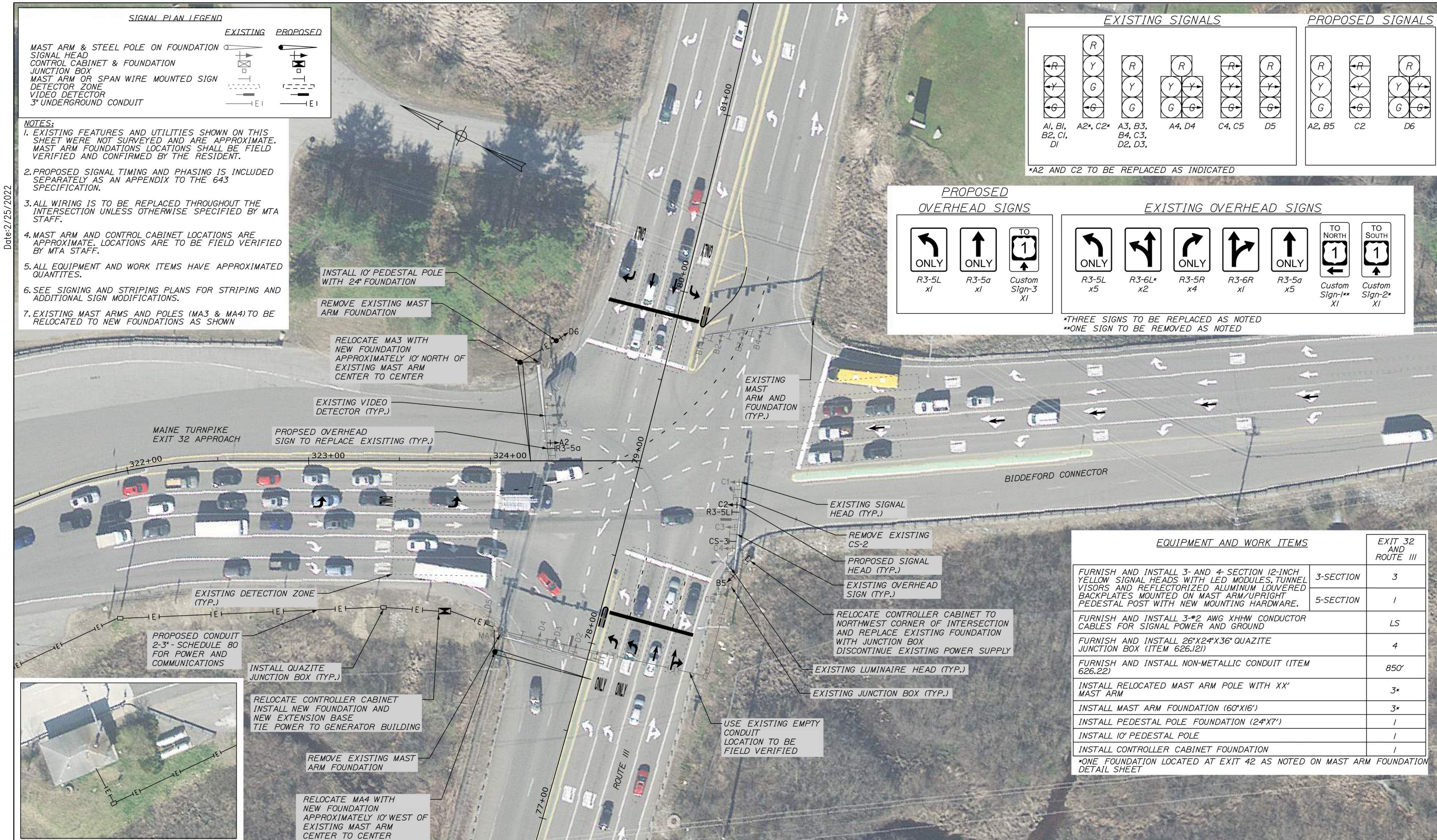


\*A2 AND C2 TO BE REPLACED AS INDICATED



\*THREE SIGNS TO BE REPLACED AS NOTED  
\*\*ONE SIGN TO BE REMOVED AS NOTED

Date: 2/25/2022



EQUIPMENT AND WORK ITEMS		EXIT 32 AND ROUTE III
FURNISH AND INSTALL 3- AND 4- SECTION 12-INCH YELLOW SIGNAL HEADS WITH LED MODULES, TUNNEL VISORS AND REFLECTORIZED ALUMINUM LOUVERED BACKPLATES MOUNTED ON MAST ARM/UPRIGHT PEDESTAL POST WITH NEW MOUNTING HARDWARE.	3-SECTION	3
FURNISH AND INSTALL 3-#2 AWG XHHW CONDUCTOR CABLES FOR SIGNAL POWER AND GROUND	5-SECTION	1
FURNISH AND INSTALL 26"x24"x36" QUAZITE JUNCTION BOX (ITEM 626.121)		LS
FURNISH AND INSTALL NON-METALLIC CONDUIT (ITEM 626.22)		4
INSTALL RELOCATED MAST ARM POLE WITH XX' MAST ARM		850'
INSTALL MAST ARM FOUNDATION (60'X16')		3*
INSTALL PEDESTAL POLE FOUNDATION (24'X7')		1
INSTALL 10' PEDESTAL POLE		1
INSTALL CONTROLLER CABINET FOUNDATION		1

\*ONE FOUNDATION LOCATED AT EXIT 42 AS NOTED ON MAST ARM FOUNDATION DETAIL SHEET

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: PHIL KENDALL

	By	Date	By	Date	
Designed	ARG	01/22	Checked	RBM	01/22
Drawn	PEB	01/22	In Charge of	TRC	01/22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: STEPHEN R. TARTRE

**EXIT 32 IMPROVEMENTS**

SIGNAL PLAN

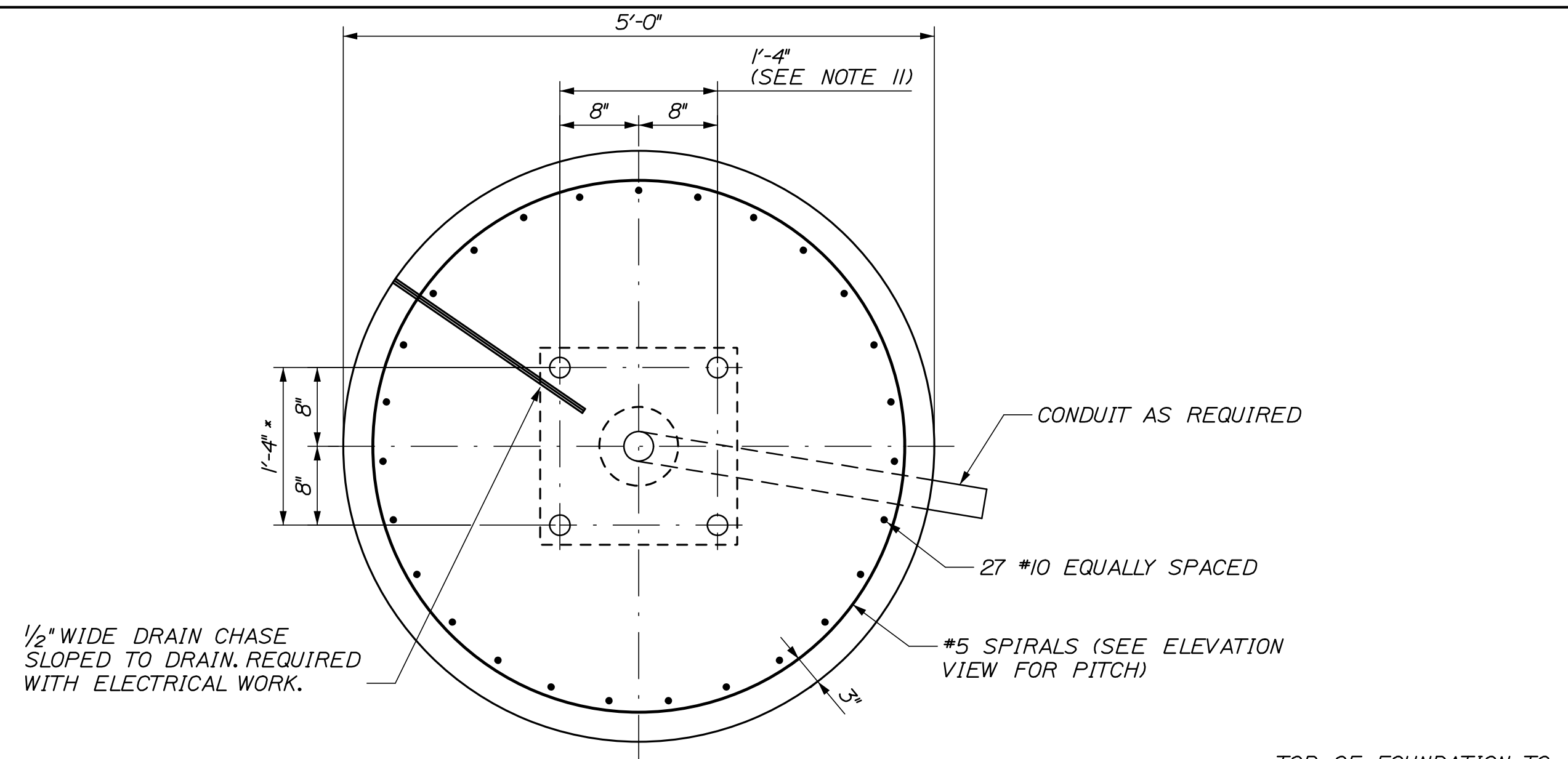
SHEET NUMBER: SGN-3  
A6 OF A7

CONTRACT: 2022.02

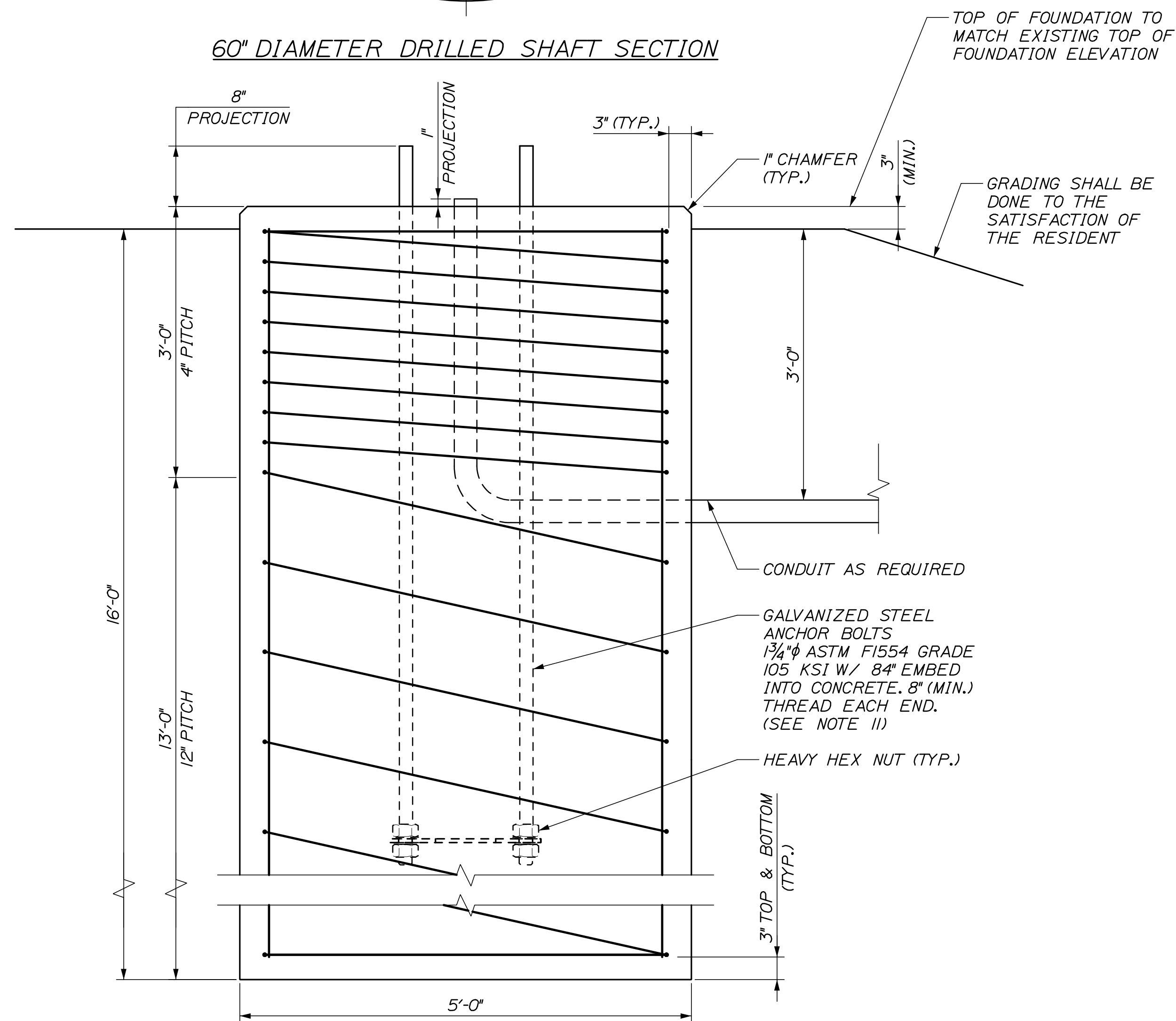


Date: 2/24/2022

Filename: OXX\_Mast Arm Foundation Details.dgn



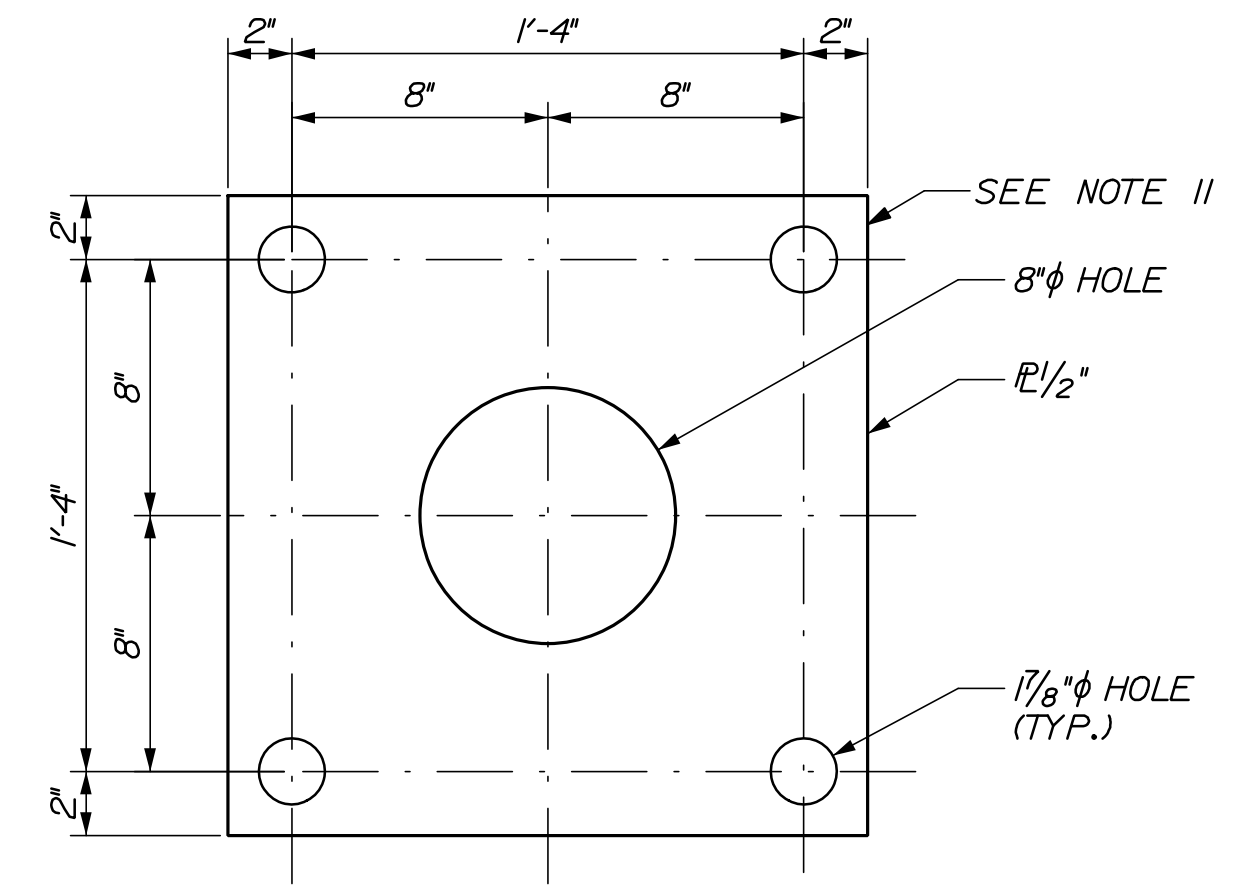
60" DIAMETER DRILLED SHAFT SECTION



60" DIAMETER DRILLED SHAFT ELEVATION VIEW

**MAST ARM FOUNDATION NOTES**

1. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND COMPLY WITH ASTM A615, GRADE 60.
2. CONCRETE FOR FOUNDATION SHALL CONFORM TO MAINE DOT CLASS LP.
3. STEEL ANCHOR BOLTS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
4. THE MAXIMUM GAP BETWEEN BOTTOM OF THE ANCHOR BOLT LEVELING NUT AND THE TOP OF CONCRETE SHALL BE 3/4".
5. IF THE CONTRACTOR ENCOUNTERS CLAY WHILE DRILLING FOR MAST ARM FOUNDATIONS, THEY ARE TO STOP WORK AND NOTIFY THE RESIDENT SO THAT SOIL CONDITIONS CAN BE EVALUATED PRIOR TO MOVING FORWARD WITH THE DRILLING OPERATIONS.
6. THE WORK AT EXIT 42 CONSISTS OF RELOCATING THE MAST ARM IN THE NORTHWEST QUADRANT OF THE INTERSECTION TO A NEW FOUNDATION. THE MAST ARM WILL MOVE APPROXIMATELY 10 FEET AWAY FROM THE INTERSECTION. FINAL LOCATION TO BE DETERMINED IN FIELD AND APPROVED BY THE RESIDENT BEFORE RELOCATION.
7. THE TOP OF THE PROPOSED MAST ARM FOUNDATIONS SHALL MATCH THE ELEVATION OF THE EXISTING FOUNDATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING PROPOSED ELEVATIONS FOR APPROVAL BY THE RESIDENT. THE CONTRACTOR SHALL DETERMINE THE EXISTING ELEVATIONS PRIOR TO CONSTRUCTION OF PROPOSED FOUNDATIONS.
8. AT THE CONTRACTOR'S OPTION A GALVANIZED CORRUGATED METAL PIPE MAY BE USED AS A STAY-IN-PLACE FORM. THE TOP OF THE PIPE SHALL BE AT LEAST 2'-0" BELOW TOP OF GRADE.
9. CONCRETE SHALL BE PLACED VIA A PUMP TRUCK AND HARD PIPE TREMIE, AS THE CONCRETE WILL BE PLACED UNDERWATER. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETELY FILLING THE ANNULUS BETWEEN THE STAY-IN-PLACE FORM, IF USED, AND EXISTING SOIL USING FLOWABLE FILL OR OTHER METHODS APPROVED BY THE RESIDENT.
10. THE EXIT 32 MAST ARM FOUNDATION DESIGNS ARE BASED ON ASSUMED SOIL CONDITIONS. GEOTECHNICAL ANALYSIS AND FINAL MAST ARM FOUNDATION DESIGN WILL BE PROVIDED TO CONTRACTOR PRIOR TO CONSTRUCTION. THE FINAL MAST ARM DESIGN MAY DIFFER FROM THE DETAIL SHOWN ON THIS SHEET. THE CONTRACTOR WILL BE PAID FOR THE ACTUAL VOLUME OF CONCRETE USED TO COMPLETE THE WORK IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 626.
11. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DIAMETER AND LAYOUT OF THE EXISTING ANCHOR RODS AT THE EXIT 32 MAST ARMS PRIOR TO THE START OF THE WORK. THE CONTRACTOR'S FIELD MEASUREMENTS AND PROPOSED ANCHOR ROD LAYOUT SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW AND APPROVAL.



ANCHOR PLATE DETAIL

No.	Revision	By	Date

Designed by:					
<b>HNTB</b>					
CONSULTANT PROJECT MANAGER: PHIL KENDALL					
	By	Date		By	Date
Designed	GLS	01/22	Checked	HJW	01/22
Drawn	ERB	01/22	In Charge of	TRC	01/22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: STEVE TATRE, P.E.

EXIT 32 AND EXIT 42  
INTERSECTION MODIFICATION  
MAST ARM FOUNDATION DETAIL

SHEET NUMBER: S-1  
CONTRACT: 2022.02  
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