



THE GOLD STAR
MEMORIAL HIGHWAY

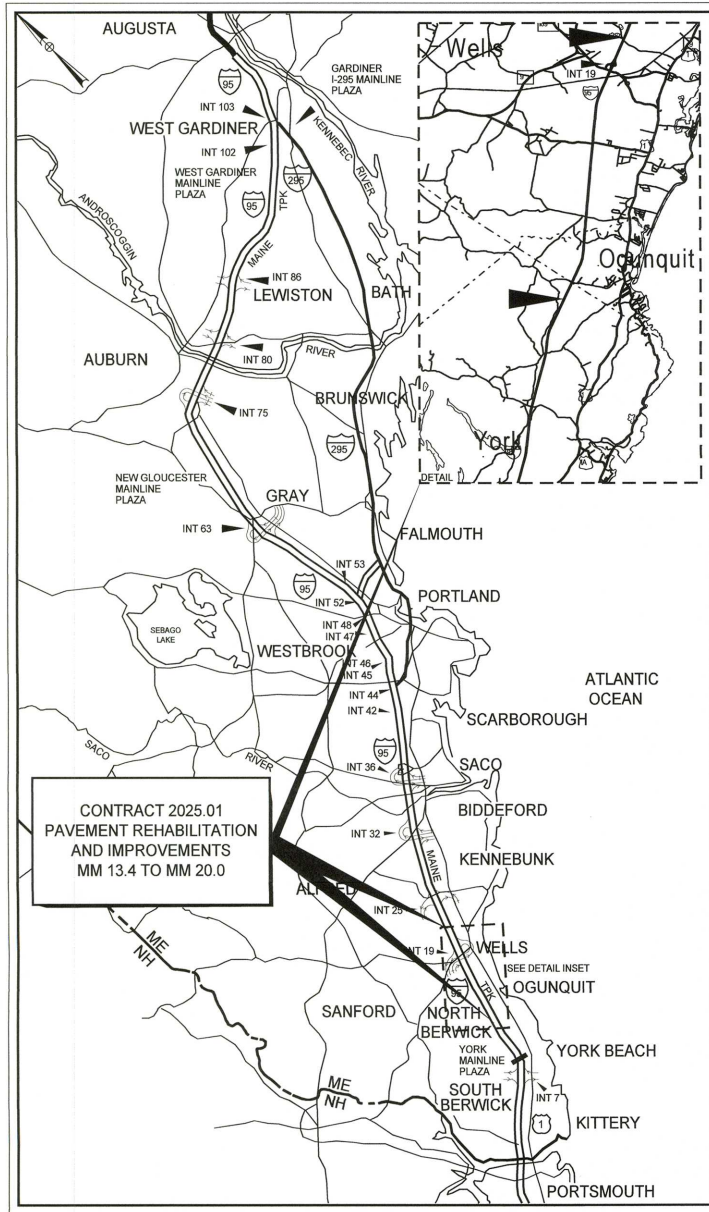
MAINE TURNPIKE AUTHORITY

MICHAEL J. CIANCHETTE, CHAIR
JANE L. LINCOLN, VICE CHAIR
NINA A. FISHER, MEMBER
ANDREW MCLEAN, MEMBER
THOMAS J. ZUKE, MEMBER
BRUCE A. VAN NOTE, MEMBER EX-OFFICIO

PETER S. MERFELD, INTERIM EXECUTIVE DIRECTOR

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES
3	GENERAL NOTES
4	PROJECT STATIONING
5	TYPICAL SECTIONS
6	MAINTENANCE OF TRAFFIC - GENERAL NOTES
7-10	MAINTENANCE OF TRAFFIC - DETAILS
11	MAINTENANCE OF TRAFFIC - ADVANCED PROJECT SIGNING
12-13	MAINTENANCE OF TRAFFIC - RAMP CLOSURE PLANS
14-16	MAINTENANCE OF TRAFFIC - SIGN SUMMARYS
17-18	DRAINAGE DETAILS
19	BERM DROPOFF CORRECTION AND MEDIAN RESTORATION DETAILS
20-21	STRIPING DETAILS
22-24	GUARDRAIL DETAILS
25	RUMBLE STRIP DETAILS
26-34	STAGED CONSTRUCTION PLANS
35	BRIDGE TYPICAL SECTIONS
36-40	BRIDGE JOINT REPAIR PLANS

CONTRACT 2025.01



LOCATION MAP

CONTRACT 2025.01 PAVEMENT REHABILITATION MM 15.2 TO MM 20.0 GUARDRAIL AND DRAINAGE IMPROVEMENTS MM 13.4 TO MM 20.0

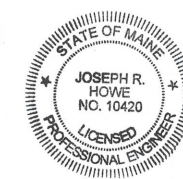
BRIDGE JOINT REPAIRS B & M RAILROAD MM 19.0 SANFORD ROAD/ ROUTES 9 & 109 MM 19.1 WELLS INTERCHANGE OVERPASS MM 19.3

APPROVED:

MAINE TURNPIKE AUTHORITY

Stephen R. Tartre
STEPHEN R. TARTRE, P.E. - CHIEF ENGINEER &
DIRECTOR OF ENGINEERING
MTA

1/16/25
DATE



Joseph R. Howe
JOSEPH HOWE, P.E. - PROJECT MANAGER
STANTEC

1/16/25
DATE

Date: 1/14/2025

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

Date: 1/20/2025

ESTIMATED QUANTITIES							
ITEM NO.	ITEM	UNIT	PAVING	BRIDGE REPAIR	GUARDRAIL	DRAINAGE	TOTAL
202.15	REMOVING EXISTING MANHOLE OR CATCH BASIN	EA				1	1
202.202	REMOVING PAVEMENT SURFACE	SY	253,000				253,000
202.2021	REMOVING PAVEMENT SURFACE - BRIDGE DECK	SY		4750			4750
202.205	RUMBLE STRIPS	EA	85,600				85,600
211.50	MEDIAN RESTORATION	LF	22,400				22,400
211.51	MEDIAN RESTORATION WITH RAP	LF	700				700
401.03	BALANCED MIX DESIGN DATA COLLECTION	LS	1				1
403.207	HOT MIX ASPHALT, 19.0 mm NOMINAL MAXIMUM SIZE	TON	65				65
403.2081	HOT MIX ASPHALT, 12.5 mm (POLYMER MODIFIED) - RAP (MAINLINE)	TON	21,900				21,900
403.211	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE (SHIMMING)	TON	1000				1000
403.213	HOT MIX ASPHALT, 12.5 mm (BASE AND INTERMEDIATE BASE COURSE)	TON	14				14
409.152	BITUMINOUS TACK COAT NTSS - IHM TRACKLESS - APPLIED	GAL	17,400				17,400
419.30	SAWING BITUMINOUS PAVEMENT	LF	560	840			1400
424.323	ASPHALT RUBBER FIBER CRACK SEALER	LB	19,000				19,000
424.324	ASPHALT RUBBER MASTIC CRACK SEALER - APPLIED	LB	12,700				12,700
427.09	PAVEMENT CRACK REPAIR	LF	1000				1000
459.06	BITUMINOUS CONCRETE WATERWAY - TYPE I	EA	4				4
459.061	BITUMINOUS CONCRETE WATERWAY - TYPE II	EA	2				2
459.062	BITUMINOUS CONCRETE WATERWAY - TYPE III	EA	4				4
470.0801	BERM DROPOFF CORRECTION - GRINDINGS	LF	69,600				69,600
470.081	BERM CORRECTION	LF	1300				1300
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (510 SY)	LS		1			1
518.865	ELASTOMERIC CONCRETE	CF		96			96
518.866	CONCRETE HEADER REPAIR	CF		200			200
520.2301	ASPHALTIC PLUG JOINT (B&M RAILROAD NB)	LF		67			67
520.2302	ASPHALTIC PLUG JOINT (B&M RAILROAD SB)	LF		74			74
520.2303	ASPHALTIC PLUG JOINT (ROUTE 109 NB)	LF		57			57
520.2304	ASPHALTIC PLUG JOINT (ROUTE 109 SB)	LF		83			83
526.306	TEMPORARY CONCRETE BARRIER, TYPE I - SUPPLIED BY THE AUTHORITY (1470 LF)	LS	1				1
527.341	WORK ZONE CRASH CUSHIONS TL-3	UN	2				2
527.342	WORK ZONE CRASH CUSHIONS TL-2	UN	2				2
603.155	12 INCH REINFORCED CONCRETE PIPE - CLASS III	LF				8	8
603.28	CONCRETE COLLAR	EA				1	1
604.09	CATCH BASIN TYPE BI	EA				1	1
604.184	REBUILD CATCH BASIN TO GRADE - TYPE II	EA				44	44
606.13	31"W-BEAM GUARDRAIL - MID-WAY SPLICE (7" STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)	LF			380		380
606.1307	31"W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL	EA			3		3
606.132	31"W-BEAM GUARDRAIL - MID-WAY SPLICE (7" STEEL POSTS, 8" OFFSET BLOCKS, DOUBLE FACED)	LF			930		930
606.1351	31"W-BEAM GUARDRAIL - MID-WAY SPLICE TERMINAL END - ANCHORED END	EA			12		12
606.178	GUARDRAIL BEAM	LF			1000		1000
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	EA			1		1
606.352	REFLECTORIZED BEAM GUARDRAIL DELINEATOR	EA			480		480
606.356	UNDERDRAIN DELINEATOR POST	EA				35	35
606.3621	GUARDRAIL ADJUST, SINGLE RAIL	LF			15,400		15,400
606.3622	GUARDRAIL ADJUST, DOUBLE RAIL	LF			30,200		30,200
606.471	SINGLE OFFSET BLOCK - W BEAM	EA			100		100
606.472	SINGLE OFFSET BLOCK - THRIE BEAM	EA			10		10
606.48	SINGLE GALVANIZED STEEL POST	EA			50		50
606.63	THRIE BEAM RAIL BEAM	LF			200		200
606.701	ASSYMETRIC THRIE BEAM TRANSITION	EA			4		4
610.08	PLAIN RIPRAP	CY				230	230
613.319	EROSION CONTROL BLANKET	SY	24,700				24,700
618.14	SEEDING METHOD NUMBER 2	UNIT	280				280
619.1201	MULCH - PLAN QUANTITY	UNIT	280				280
619.1202	TEMPORARY MULCH	LS	1				1
620.58	EROSION CONTROL GEOTEXTILE	SY				670	670


ESTIMATED QUANTITIES							
ITEM NO.	ITEM	UNIT	PAVING	BRIDGE REPAIR	GUARDRAIL	DRAINAGE	TOTAL
627.73	TEMPORARY 6 INCH PAVEMENT MARKING TAPE	LF	43,000				43,000
627.731	TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE	LF	1200				1200
627.745	6" WHITE OR YELLOW TEMPORARY POLYUREA PAVEMENT MARKING LINE	LF	43,000				43,000
627.77	REMOVING EXISTING PAVEMENT MARKING	SF	6200				6200
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LF	243,000				243,000
627.812	TEMPORARY RAISED PAVEMENT MARKERS	EA	10,000				10,000
627.94	PAVEMENT MARKING TAPE	LF	4000				4000
627.941	PAVEMENT MARKING TAPE - DOTTED WHITE LANE LINE, 6-INCH WIDTH	LF	860				860
629.05	HAND LABOR, STRAIGHT TIME	HR	40				40
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	HR		40			40
631.11	AIR TOOL (INCLUDING OPERATOR)	HR		40			40
631.112	WELDING MACHINE (INCLUDING OPERATOR)	HR		40			40
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR	60				60
631.133	SKID STEER (INCLUDING OPERATOR)	HR	20				20
631.171	TRUCK - SMALL (INCLUDING OPERATOR)	HR	40				40
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	HR	20				20
631.22	FRONT END LOADER (INCLUDING OPERATOR)	HR	20				20
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	HR	80				80
631.36	FOREMAN	HR	40				40
652.30	FLASHING ARROW	EA	6				6
652.312	TYPE III BARRICADES	EA	5				5
652.35	CONSTRUCTION SIGNS	SF	5300				5300
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	0.79	0.06	0.11	0.04	1
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	EA	7				7
652.4502	TRUCK MOUNTED ATTENUATOR	EA	3				3
652.4503	TRUCK MOUNTED ATTENUATOR	WEEK	24				24
652.47	SEQUENTIAL FLASHING WARNING LIGHTS	EA	190				190
656.50	BALED HAY, IN-PLACE	EA	160				160
656.60	TEMPORARY BERMS	LF	100				100
656.62	TEMPORARY SLOPE DRAINS	LF	30				30
656.632	30" TEMPORARY SILT FENCE	LF	100				100
659.10	MOBILIZATION	LS	0.79	0.06	0.11	0.04	1

Filename: ... \00VHIGHWAY\WSTA... Estimate.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	KBJ	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0

ESTIMATED QUANTITIES

SHEET NUMBER: EQ-01

CONTRACT: 2025.01

2 OF 40

GENERAL NOTES:

1. 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.
2. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES, LATEST REVISION AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS OR PROJECT SPECIFICATIONS.
3. ALL EXISTING ROADWAYS USED IN ACCESSING THE SITE SHALL REMAIN CLEAN IN ACCORDANCE WITH THE 2014 MAINEDOT STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
5. STATIONING SHOWN IN THESE PLANS IS APPROXIMATE AND FOR REFERENCE ONLY.
6. PAVE TO WITHIN 1 INCH OF FACE OF GUARDRAIL.
7. THE MAINE TURNPIKE AUTHORITY WILL FINAL STRIPE THE PROJECT.
8. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF THE FINAL PAVEMENT MARKINGS AND TRAFFIC CONTROL ASSOCIATED WITH FINAL STRIPING.
9. THE CONTRACTOR SHALL VERIFY EXISTING CROSS SLOPES OF EACH LANE AND SHOULDER AT LEAST EVERY 1/4 MILE AND PROVIDE CROSS SLOPE DATA TO THE RESIDENT AT LEAST 14 DAYS PRIOR TO BEGINNING MILLING OF EACH ROADWAY.

EARTHWORK NOTES:

1. 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 EXCAVATION).
2. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
3. BORROW NEEDED TO FILL AREAS OF EROSION SHALL COME FROM SUITABLE EXCAVATION ON THE PROJECT AND SHALL BE SUITABLE FOR GROWING GRASS. THE CONTRACTOR SHALL PLAN THEIR WORK TO USE AVAILABLE MATERIAL. PAYMENT FOR EXCAVATION NOT INCLUDED IN OTHER ITEMS AND PLACEMENT OF BORROW SHALL BE MADE UNDER THE APPROPRIATE RENTAL ITEMS.
4. ANY LOAM REQUIRED FOR TOUCHUP WILL BE INCIDENTAL TO THE CONTRACT.

DRAINAGE NOTES:

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT APPROVAL OF THE RESIDENT.
2. EXISTING CATCH BASINS AND EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).
3. ONE GREEN DELINEATOR POST SHALL BE INSTALLED AT UNDERDRAIN AND STORM DRAIN OUTLETS AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE MADE UNDER ITEM 606.356 - UNDERDRAIN DELINEATOR POST.

UTILITY NOTES:

1. THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF WORK. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. 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.
2. THE CONTRACTOR SHALL NOTIFY ALL NON-MEMBERS THROUGH WWW.OKTODIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL NON-MEMBER NOTIFICATIONS WITHIN 24 HOURS OF THEIR RELEASE.
3. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 CALENDAR DAYS PRIOR TO SUBMITTING ANY UTILITY LOCATE REQUESTS AS NOTED ABOVE SO THAT THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES.
4. FOLLOWING THE COMPLETION OF THE INITIAL UTILITY LOCATE THE CONTRACTOR WILL GPS LOCATE ALL UTILITIES WITHIN THE PROJECT LIMITS AND PROVIDE A COPY OF THE DIG SAFE RECORDS TO THE AUTHORITY. THE CONTRACTOR, ACTING AS THE AUTHORITY'S THIRD-PARTY LOCATOR, SHALL BE RESPONSIBLE FOR REMARKING ALL MAINE TURNPIKE FACILITIES WHEN A DIG SAFE UTILITY IS CALLED FOR THE PROJECT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

EROSION CONTROL NOTES:

1. NEWLY DISTURBED EARTH SHALL BE MULCHED PRIOR TO A RAIN EVENT. THIS WORK SHALL BE PAID FOR UNDER ITEM 619.1202 TEMPORARY MULCH.
2. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
3. EROSION CONTROL BLANKET, ITEM 613.319, SHALL BE INSTALLED IN ALL DITCHES AND SLOPES GREATER THAN 3:1 FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET.
4. TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODABLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING TEMPORARY MULCH AS NECESSARY, IN ACCORDANCE WITH THE LATEST EDITION OF THE BMP'S, TO MINIMIZE SOIL EROSION PRIOR TO THE APPLICATION OF THE FINAL SLOPE TREATMENT.
5. STABILIZED CONSTRUCTION ENTRANCES MUST BE USED AND MAINTAINED. NO TRACKING OF SOIL ON THE MAINE TURNPIKE OR LOCAL ROADS WILL BE ALLOWED.
6. A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT ALL STREAM LOCATIONS AND OPEN WATER WETLANDS.
7. UNLESS OTHERWISE NOTED; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL AREAS.
8. 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.

NEW MATERIALS

CONCRETE (UNLESS NOTED OTHERWISE).....CLASS AAA - MODIFIED


BASIC DESIGN STRESSES (NEW MATERIALS)

CONCRETEf'c = 4,000 psi

Date: 1/20/2025

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

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:						
						
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE						
	By	Date		By	Date	
	Designed	JRH	1\25	Checked	JRH	1\25
	Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0

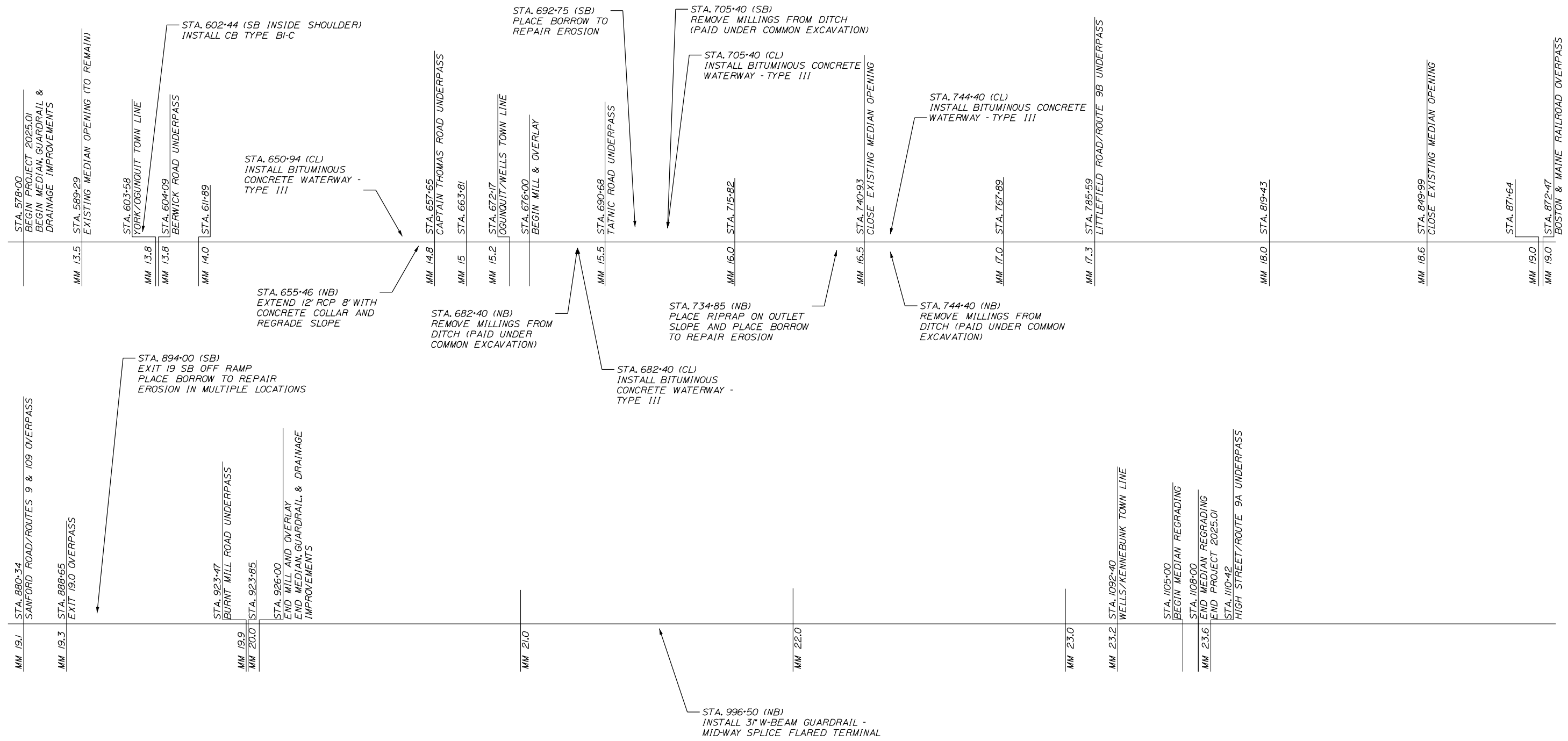
GENERAL NOTES

SHEET NUMBER: GN-01

CONTRACT: 2025.01

3 OF 40

Date: 1/20/2025




PROJECT STATIONING ONE LINE DIAGRAM

Filename: ...MSTA...Project_Stationing.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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



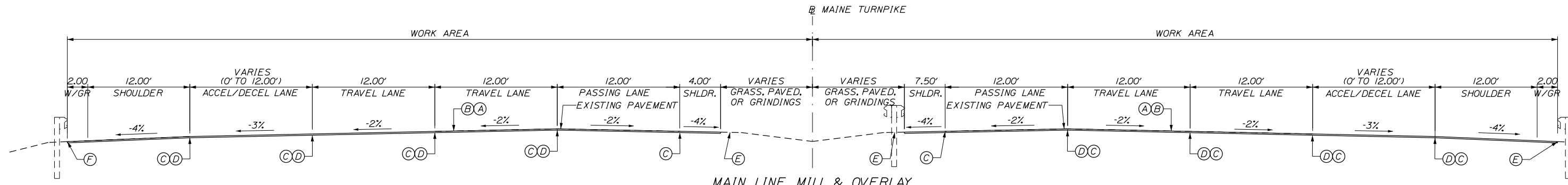
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 PROJECT STATIONING

SHEET NUMBER: PS-01
 CONTRACT: 2025.01
 4 OF 40

Date: 1/20/2025



MAIN LINE MILL & OVERLAY

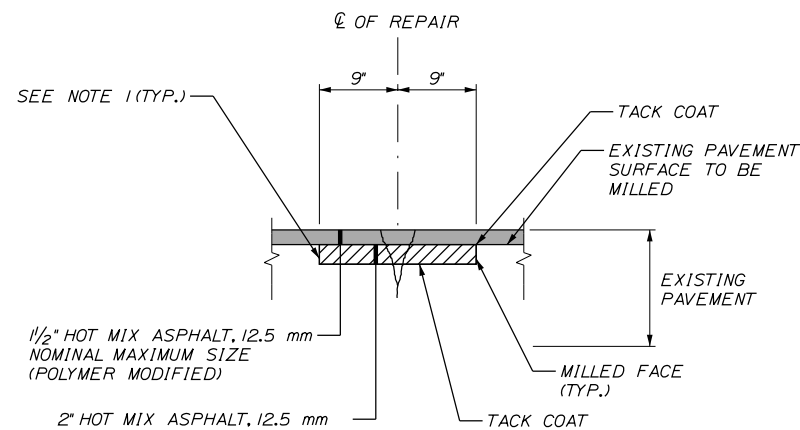
* TYPICAL SHOULDER WIDTHS. WIDTH VARIES AROUND BRIDGES, EXIT 19 INTERCHANGE, AND DEPENDENT ON GUARDRAIL LOCATION.

PAVEMENT LEGEND:

- (A) = 1 1/2" HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (POLYMER MODIFIED)
- (B) = MILLING DEPTH VARIES TO ACHIEVE A 1 1/2" DEPTH AT THE EDGES OF LANE BEING MILLED.
- (C) = MILLING DEPTH VARIES AS CONTROLLED BY CROSS SLOPE AND RUT DEPTHS
- (D) = NOTCHED WEDGE JOINT
- (E) = BERM DROPOFF CORRECTION - GRINDINGS (SEE DETAIL A, SHEET DT-03).
- (F) = BERM DROPOFF CORRECTION - GRINDINGS (SEE DETAIL B, SHEET DT-03).

NOTES:

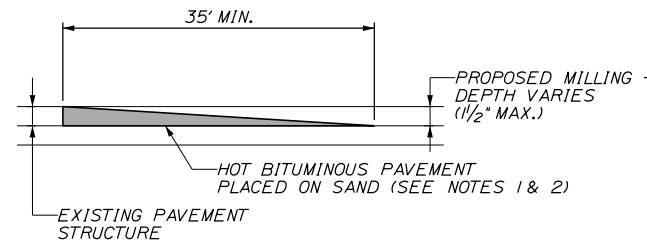
1. COATING OF HOT RUBBERIZED ASPHALT (ASTM D6690 TYPE IV) SHALL BE APPLIED AT THE TOP SURFACE LIFT TO ALL TRANSVERSE BUTT JOINTS AND LONGITUDINAL JOINTS EXCEPT WHERE THE NOTCHED WEDGE IS USED. PAYMENT FOR THE HOT RUBBERIZED ASPHALT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.
2. BITUMINOUS TACK COAT IS REQUIRED BETWEEN EXISTING PAVEMENT AND PROPOSED HMA AND BETWEEN ANY LIFTS OF PROPOSED PAVEMENT OR SHIM.
3. THE CONTRACTOR SHALL STRING EACH BRIDGE 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.
4. CROSS SLOPE TRANSITIONS TO MATCH EXISTING CROSS SLOPES SHALL BE AS DIRECTED BY THE RESIDENT.
5. 14' WIDE RAMP LANES SHALL BE PAVED IN A SINGLE PASS SUCH THAT LONGITUDINAL JOINTS ARE AT THE EDGES OF THE LANE.
6. THE NOTCHED WEDGE SHALL BE DOUBLE TACKED.
7. A MILLED SAFETY WEDGE IS REQUIRED.
8. OUTSIDE SHOULDER WIDTHS VARY AT EMERGENCY VEHICLE RAMPS AND THE EXIT 19 AREA.
9. MILL AND OVERLAY SHALL INCLUDE RAMP ACCELERATION LANES, DECELERATION LANES, RAMP SHOULDERS, AND PAVED GORE UNLESS OTHERWISE NOTED.



CRACK REPAIR DETAIL

NOTE:

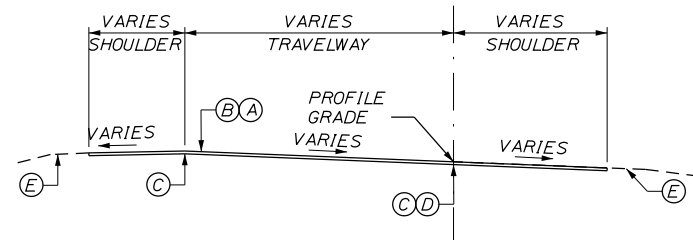
1. LOCATIONS OF CRACK REPAIR WILL BE DETERMINED BY THE RESIDENT AFTER MILLING THE EXISTING PAVEMENT SURFACE.



TEMPORARY BITUMINOUS RAMP

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.



EXIT 19 NORTHBOUND ON RAMP MILL AND OVERLAY

STA. 897+75 TO STA. 899+60
(185' BACK FROM EXIT 19 NB ON RAMP PHYSICAL GORE)

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**

**PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
TYPICAL SECTIONS
MILL AND OVERLAY**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

CONTRACT: 2025.01

SHEET NUMBER: TS-01

5 OF 40

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

GENERAL MAINTENANCE OF TRAFFIC NOTES:

1. 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 2023 EDITION OF MUTCD.
2. 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.
3. TEMPORARY PAVEMENT MARKINGS ON MILLED SURFACES, SHIM, AND BASE PAVEMENT SHALL BE PAINTED. PAYMENT FOR MARKINGS SHALL BE PAID UNDER ITEM 627.78 - TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW.
4. TEMPORARY PAVEMENT MARKINGS ON SURFACE SHALL BE TEMPORARY 6 INCH PAVEMENT MARKING TAPE (ITEM 627.73) OR TEMPORARY RAISED PAVEMENT MARKERS (ITEM 627.812) AS SHOWN ON STRIPING DETAILS.
5. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341 - WORK ZONE CRASH CUSHIONS - TL-3.
6. 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.
7. REMOVAL OF TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE SHALL BE DONE IN SUCH A MANNER TO REMOVE AS LITTLE PAVEMENT AS POSSIBLE.
8. TRUCK MOUNTED ATTENUATOR SHALL NOT BE LOCATED WITHIN THE BUFFER ZONE.
9. SIGN SPACING AS NOTED IN THE DETAILS MAY BE ADJUSTED FOR SITE CONDITIONS AND TO ALLOW FOR USING SINGLE SIGN LOCATIONS FOR DIFFERENT DETAILS AS APPROPRIATE.
10. CONES MAY BE USED ON TANGENTS THROUGH WORK ZONES. DRUMS SHALL BE USED ON ALL TAPERS.
11. DRUMS AND CONES SHALL BE INCIDENTAL TO ITEM 652.361 - MAINTENANCE OF TRAFFIC CONTROL DEVICES.

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 WILL BE PLACED ON BOTH SIDES OF THE ROAD UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR MAY REFER TO THE 2024 AMENDMENTS TO THE MTA 2021 TRAFFIC CONTROL PLANS FOR LOCATIONS THAT MEDIAN SIGNS MAY BE OMITTED.
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. SIGN SUMMARY SHEETS INCLUDE ALL SIGNS REQUIRED FOR STAGED CONSTRUCTION PLANS FOR BRIDGE JOINT AND BACKWALL WORK.

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.

RAMP CLOSURE NOTES:


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

ABBREVIATIONS FOR ALL M.O.T. PLANS:

- BWLL = BROKEN WHITE LANE LINE
- SWEL = SOLID WHITE EDGE LINE
- SYEL = SOLID YELLOW EDGE LINE
- TSSW = TEMPORARY SINGLE BROKEN WHITE LINE
- TSSW = TEMPORARY SINGLE SOLID WHITE LINE
- TSSY = TEMPORARY SINGLE SOLID YELLOW LINE
- TSDW = TEMPORARY SINGLE DOTTED WHITE LINE
- TDYL = TEMPORARY DOUBLE YELLOW LINE

Filename: ... \MSTA_GeneralNotes_MOT.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:						
						
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE						
	By	Date		By	Date	
	Designed	JRH	1\25	Checked	JRH	1\25
	Drawn	KBJ	1\25	In Charge of	JRH	1\25

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



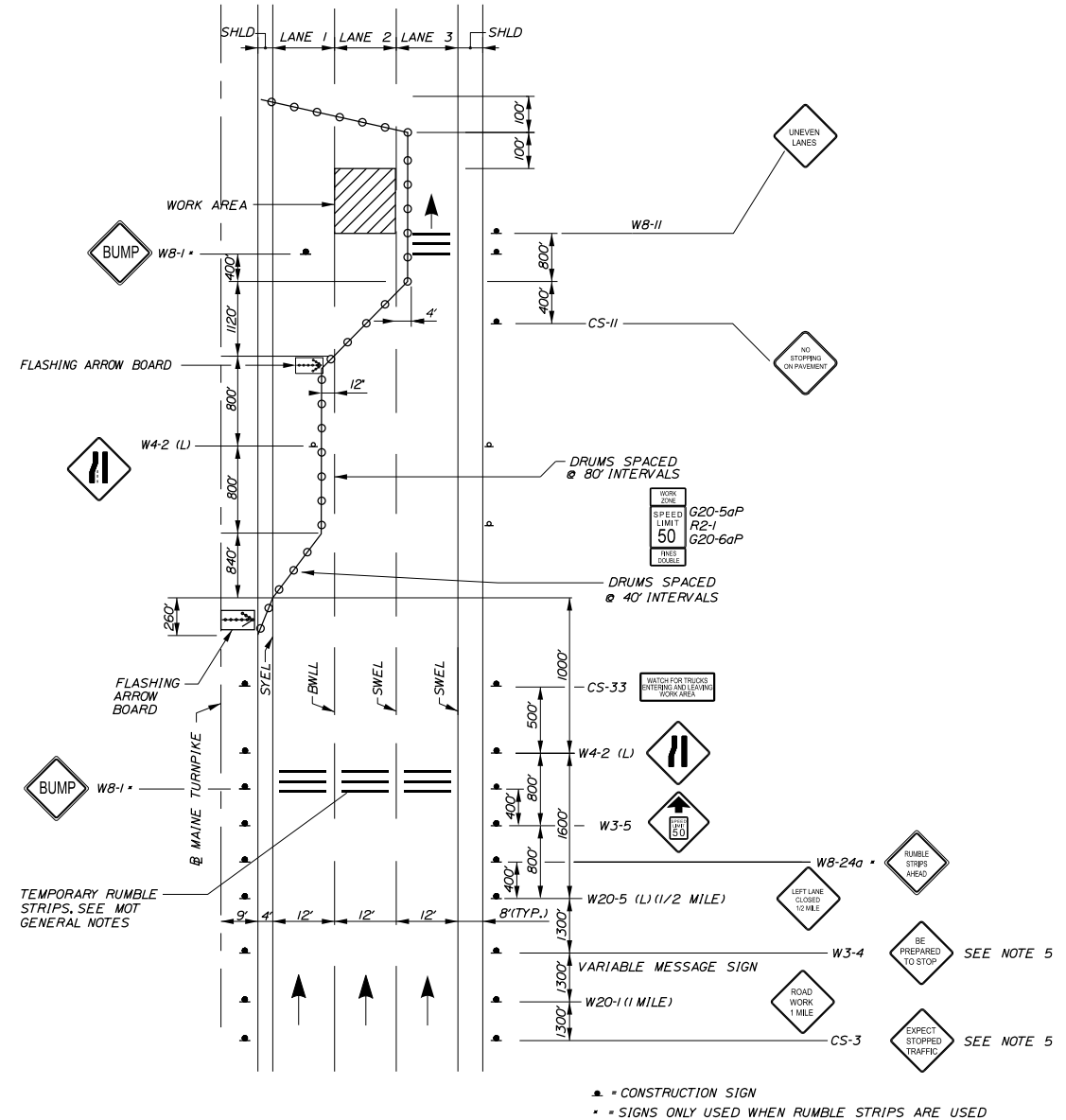
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTIVAN OUYEN, PE

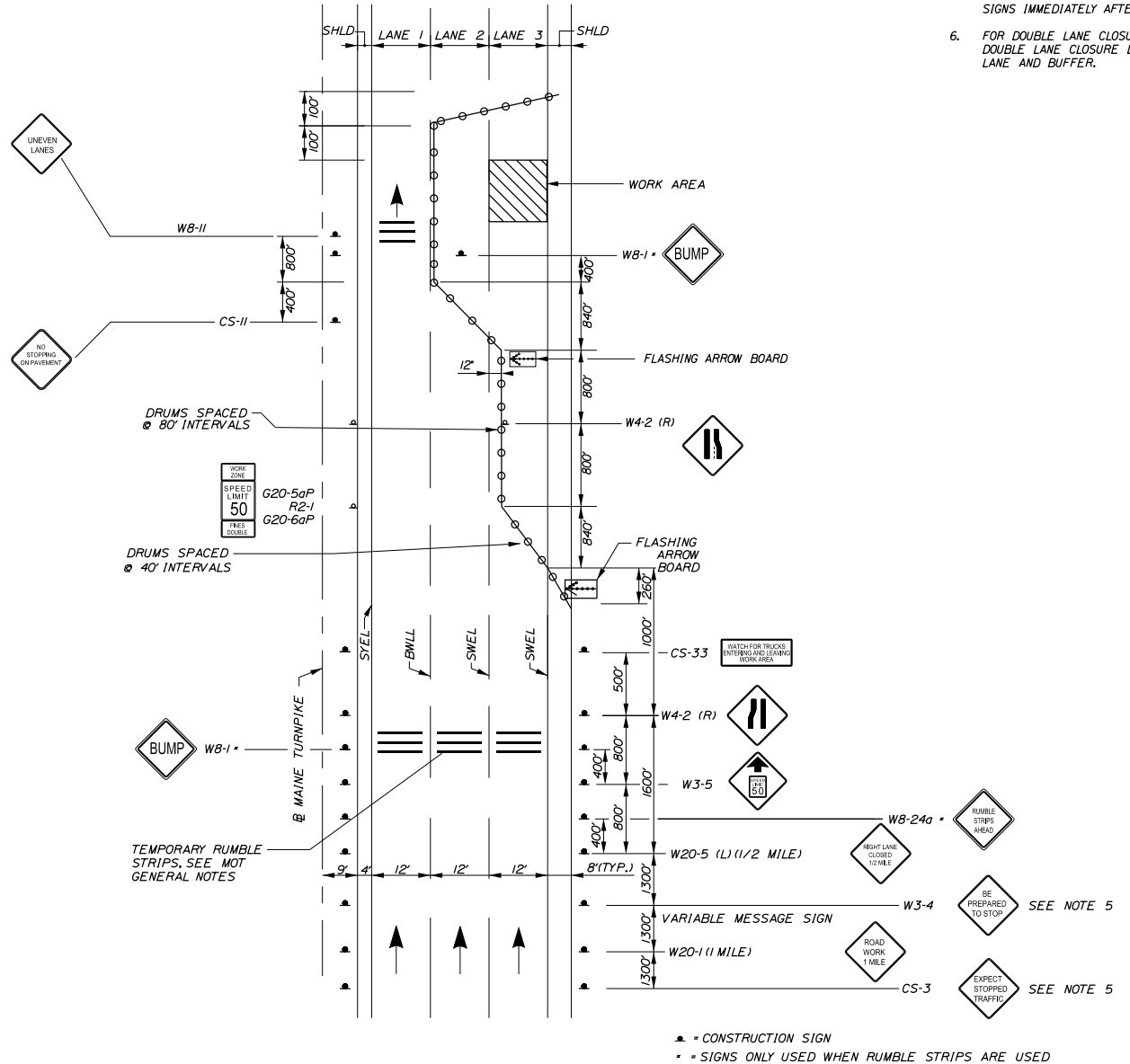
PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 MAINTENANCE OF TRAFFIC
 GENERAL NOTES

SHEET NUMBER: MT-01
 CONTRACT: 2025.01
 6 OF 40

- 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 MT-02 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.
 - FOR DOUBLE LANE CLOSURES FOR MILLING AND PAVING OPERATIONS, SEE DOUBLE LANE CLOSURE DETAIL SHEET MT-05 FOR CLOSURE OF FIRST LANE AND BUFFER.



LANE CLOSURE FOR MILLING AND PAVING OPERATIONS
 AND PAVEMENT MARKINGS
 LANE 2



LANE CLOSURE FOR MILLING AND PAVING OPERATIONS
 AND PAVEMENT MARKINGS
 LANE 3
 (LANE 1 SIMILAR/OPPPOSITE)

Date: 1/20/2025

Filename: ...MSTA_MOT_Details_01.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

MAINE TURNPIKE

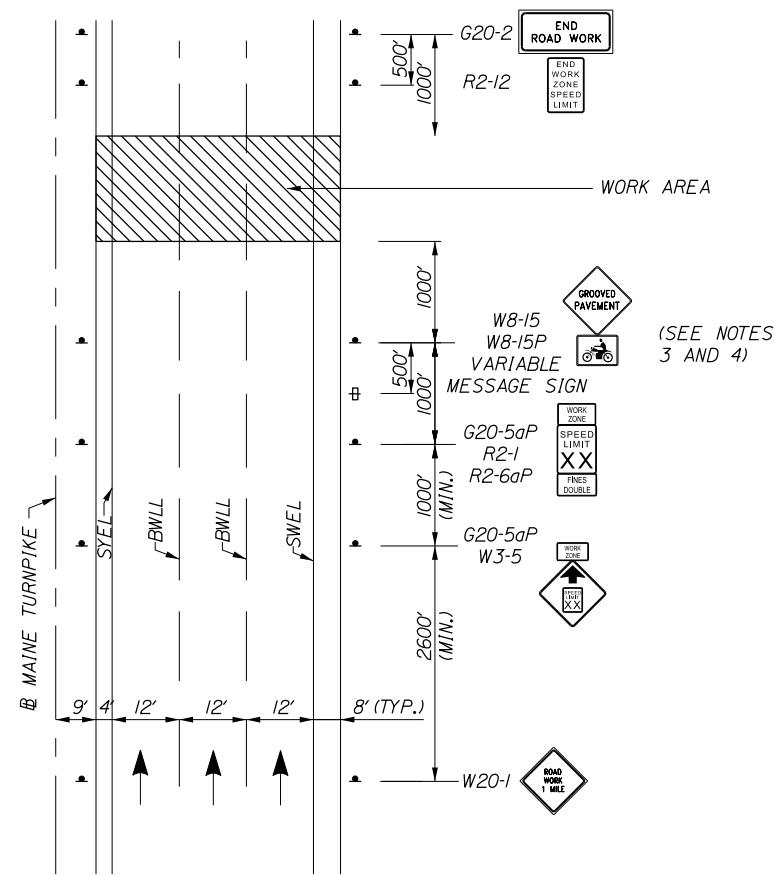
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 MAINTENANCE OF TRAFFIC
 DETAILS (2 OF 4)

SHEET NUMBER: MT-03
 CONTRACT: 2025.01
 8 OF 40

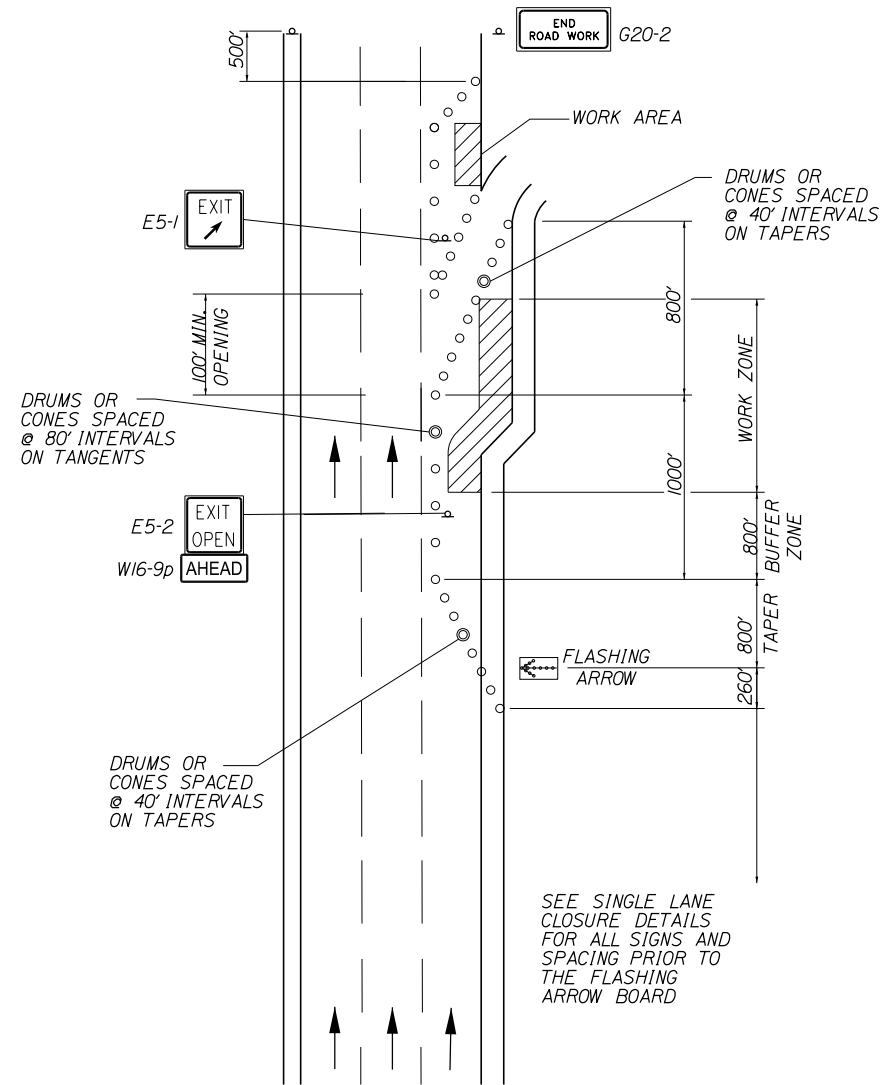
Date: 1/20/2025



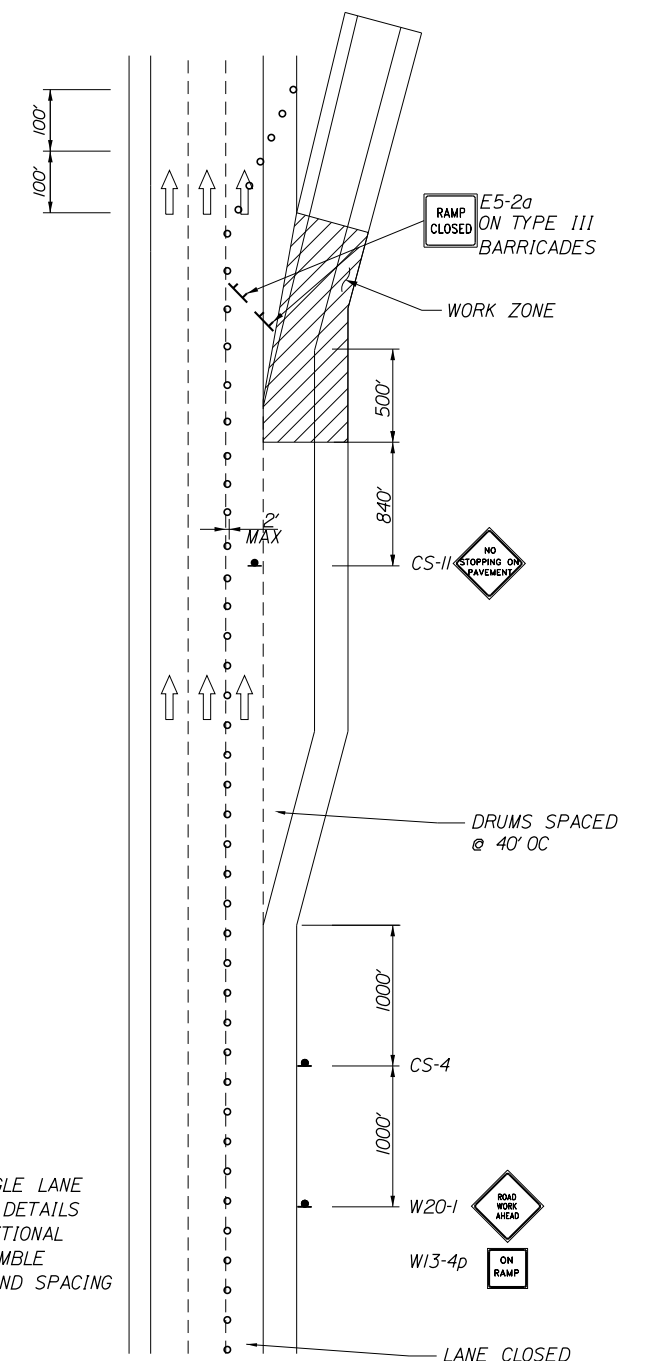
ADVANCED PROJECT SIGNING

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.
6. ALL SIGNS TO BE MOUNTED ON EASELS UNLESS OTHERWISE NOTED.
7. RAMP CLOSURES ALSO REQUIRE THE USE OF THE CORRESPONDING RAMP CLOSURE PLAN.



TRAVEL LANE CLOSURE AT AN EXIT RAMP



OFF RAMP CLOSURE

SEE SINGLE LANE CLOSURE DETAILS FOR ADDITIONAL SIGNS, RUMBLE STRIPS, AND SPACING

SEE SINGLE LANE CLOSURE DETAILS FOR ALL SIGNS AND SPACING PRIOR TO THE FLASHING ARROW BOARD

Filename: ...MSTA\MOT_Details_01.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

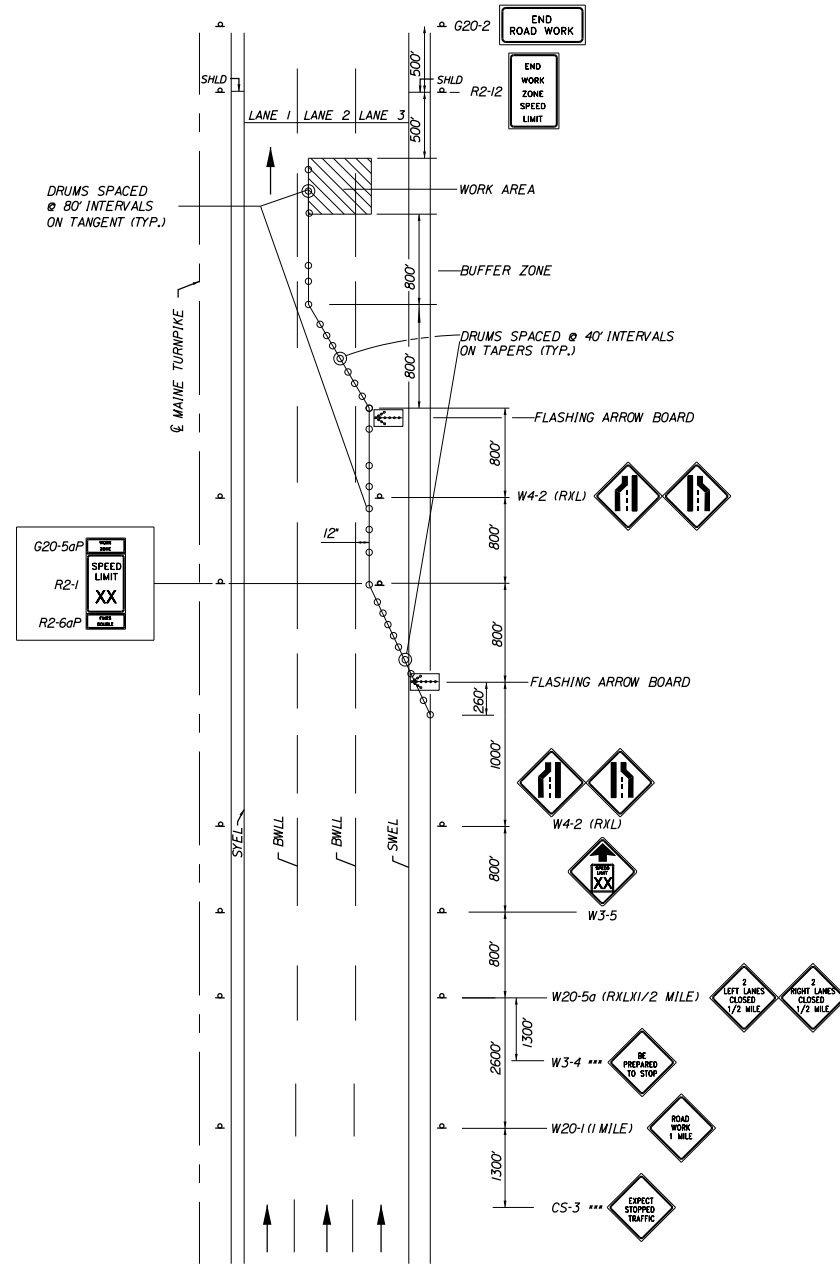
MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 MAINTENANCE OF TRAFFIC
 DETAILS (3 OF 4)

SHEET NUMBER: MT-04
 9 OF 40

CONTRACT: 2025.01

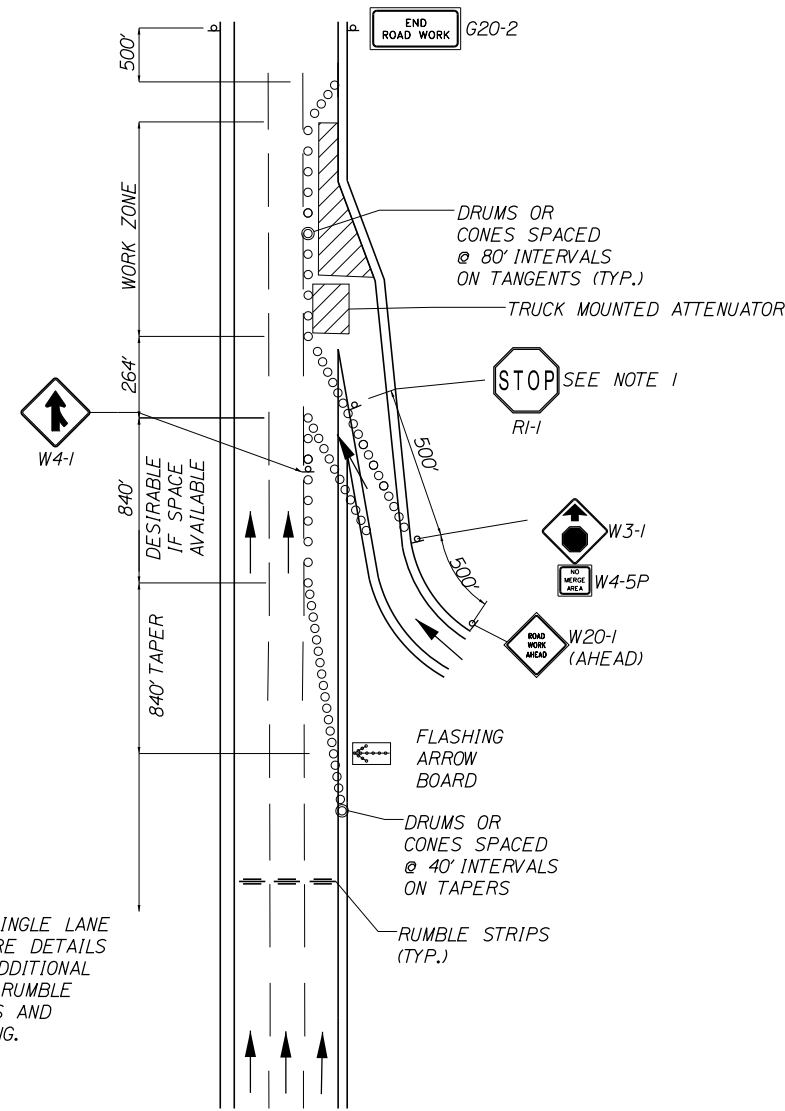
Date: 1/20/2025



DAYTIME LANE CLOSURE OF SHORT DURATION (MAINLINE)

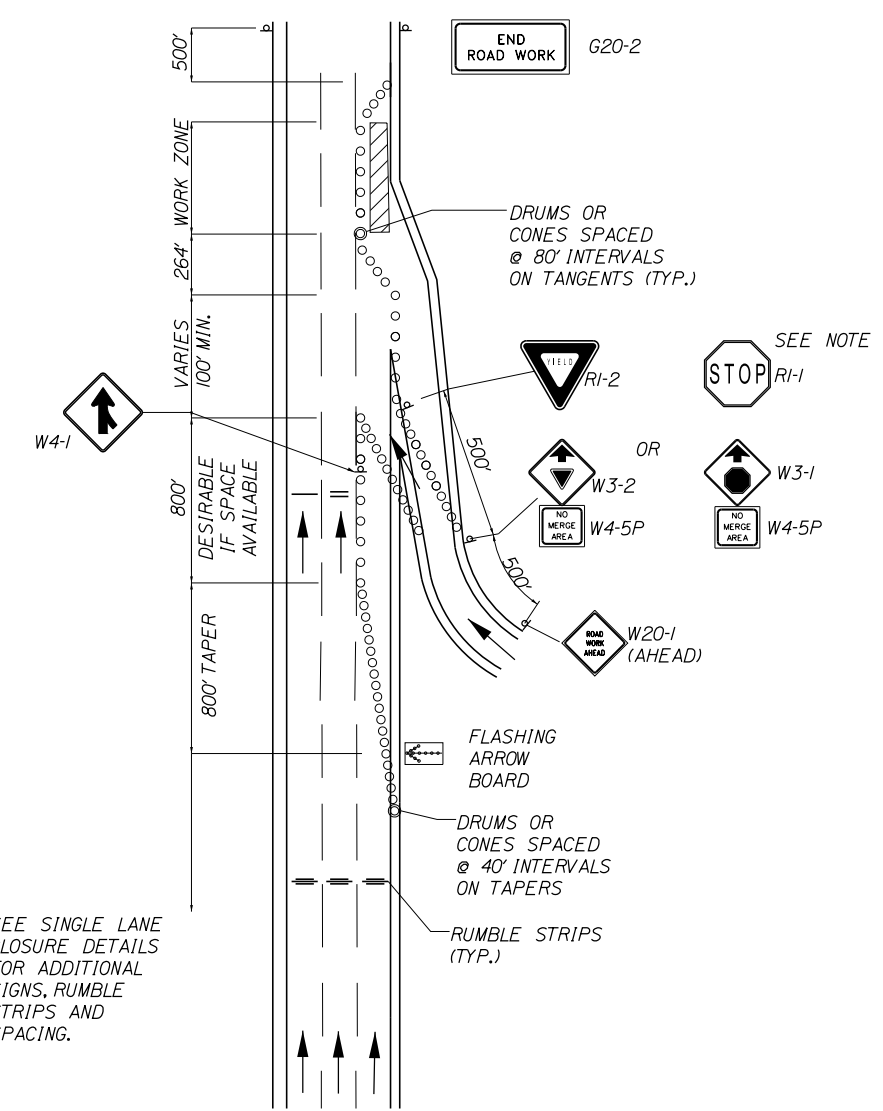
DOUBLE LANE CLOSURE

1. SEE SINGLE LANE CLOSURE NOTES FOR REDUCED SPEED SIGNS, TRAFFIC STOPPAGE SIGNS, SIGN SPACING AND OTHER PERTINENT INFORMATION.



TRAVEL LANE CLOSURE AT AN ENTRANCE RAMP WITHOUT AN ACCELERATION LANE

SEE SINGLE LANE CLOSURE DETAILS FOR ADDITIONAL SIGNS, RUMBLE STRIPS AND SPACING.



TRAVEL LANE CLOSURE AT AN ENTRANCE RAMP WITH ACCELERATION LANE

SEE SINGLE LANE CLOSURE DETAILS FOR ADDITIONAL SIGNS, RUMBLE STRIPS AND SPACING.

NOTES:

1. STOP SIGN SHALL ONLY BE USED AS APPROVED BY THE RESIDENT DURING NIGHTTIME OPERATIONS WHEN A 100' (MIN.) ACCELERATION LANE WITH 264' MERGING TAPER CANNOT BE PROVIDED.

Filename: ...MSTA\MOT_Details_01.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

MAINE TURNPIKE

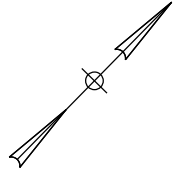
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

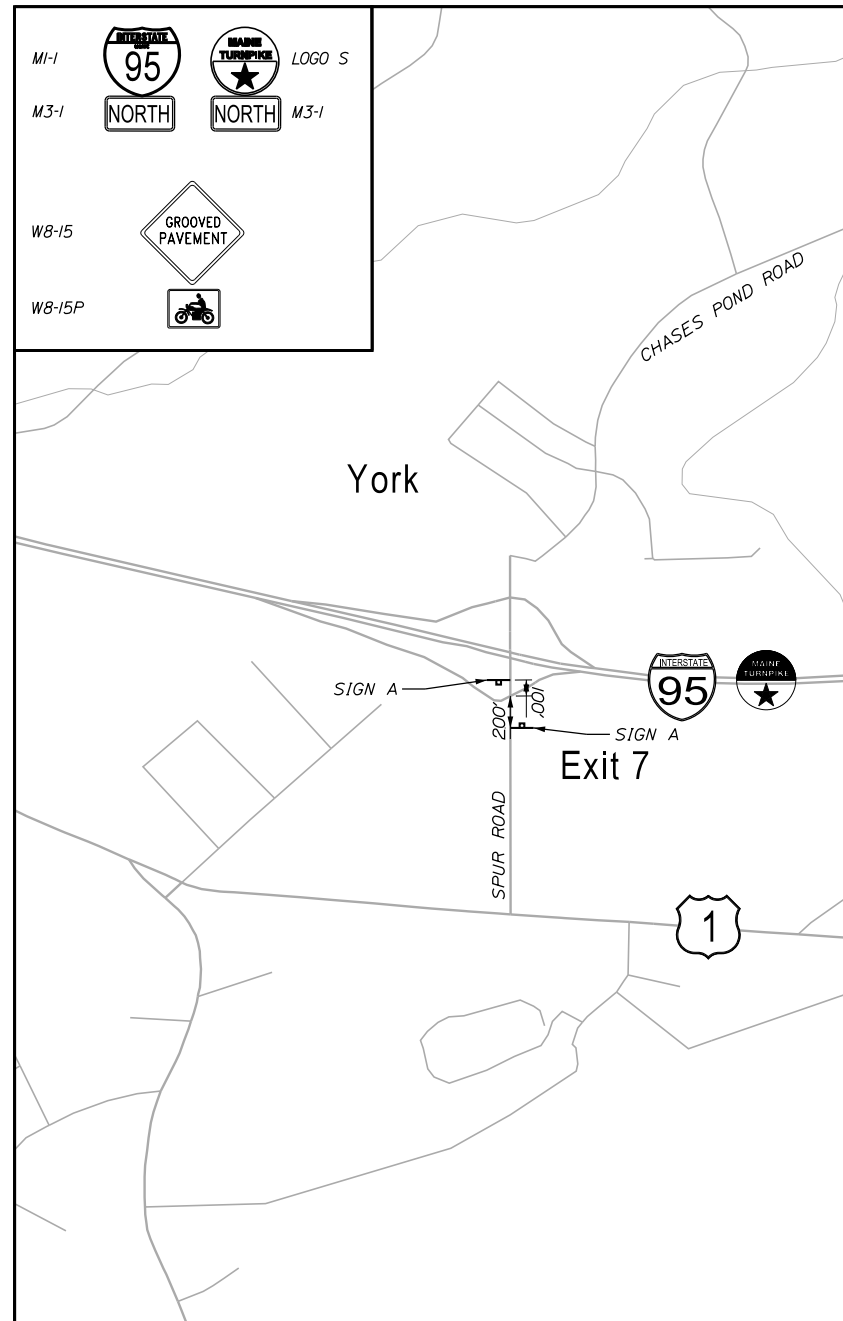
PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
MAINTENANCE OF TRAFFIC
DETAILS (4 OF 4)

SHEET NUMBER: MT-05
10 OF 40

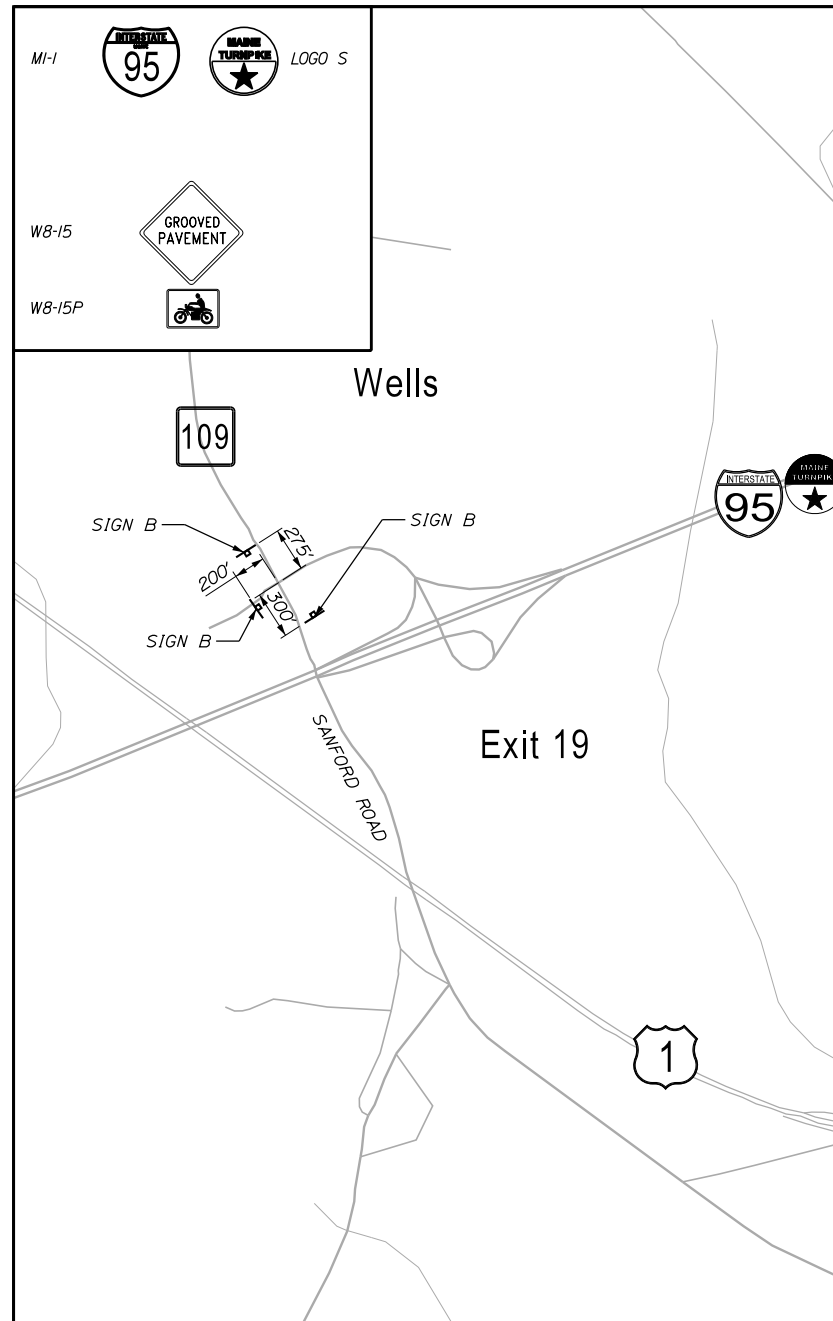
CONTRACT: 2025.01



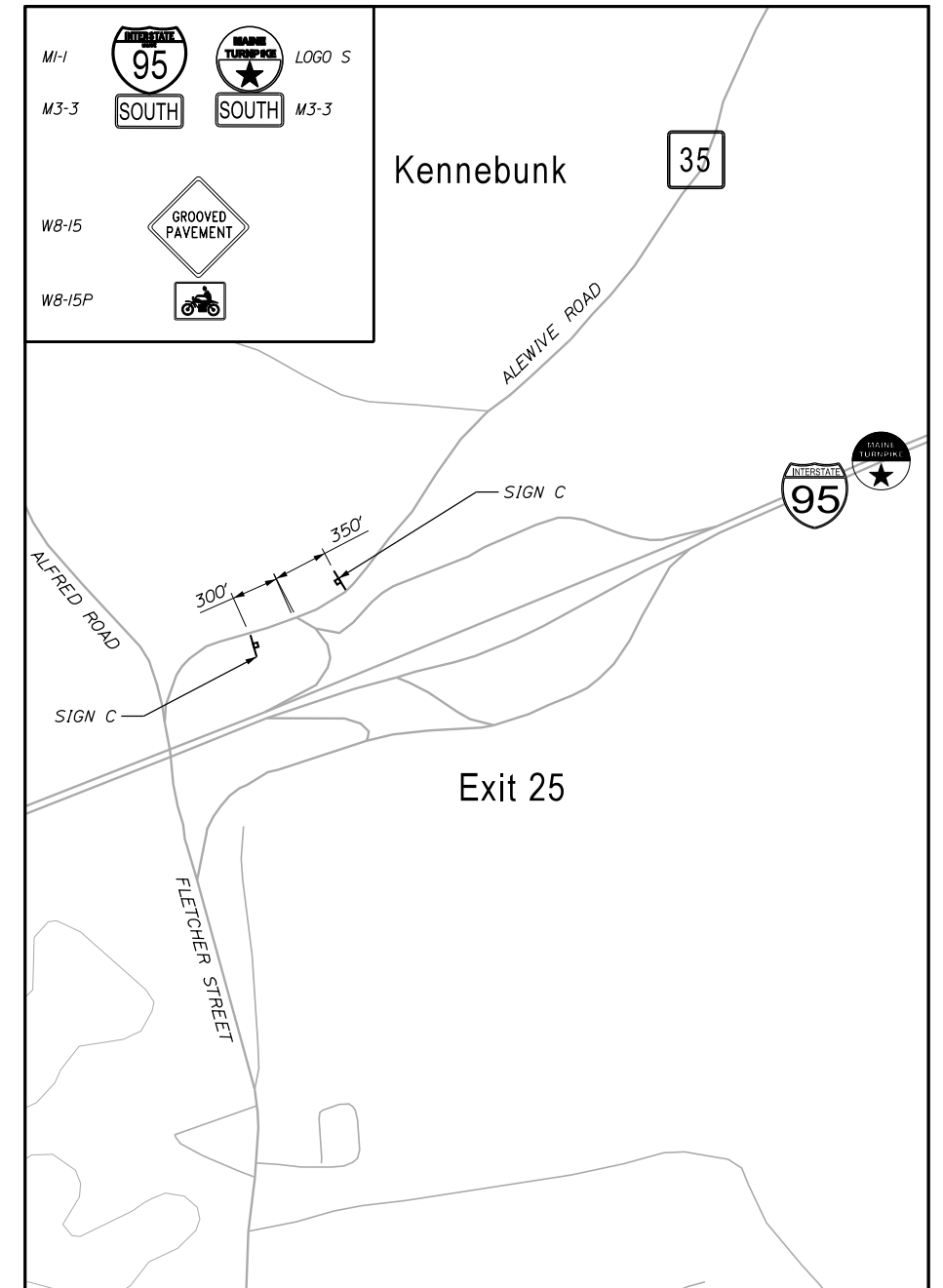
SIGN A



SIGN B

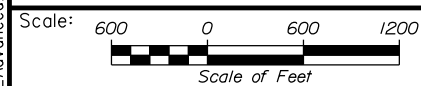


SIGN C



LEGEND

— SIGN



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**

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
MAINTENANCE OF TRAFFIC
ADVANCED PROJECT SIGNING

Filename: ... \MOT_Advanced_Project_Signing.dgn

Date: 1/20/2025

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE			
	By	Date	
Designed	JRH	1\25	Checked
Drawn	KBJ	1\25	In Charge of
	JRH	1\25	
	JRH	1\25	

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

CONTRACT: 2025.01

SHEET NUMBER: MT-06

11 OF 40

LEGEND:

■ PCMS

NOTES:

1. RAMPS MAY BE CLOSED FOR NIGHTTIME WORK ONLY.
2. RAMPS SHALL BE OPENED WHEN WORK IS NOT OCCURING.

ALL PCMS (1WEEK PRIOR TO CLOSURE)

EXIT 19
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 19
RAMP
CLOSED SCREEN 1

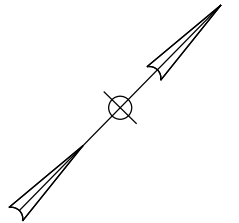
USE
EXIT
7 SCREEN 2

PCMS MESSAGES

PCMS #2 & #4

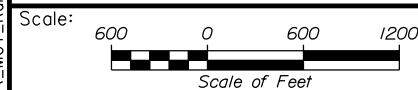
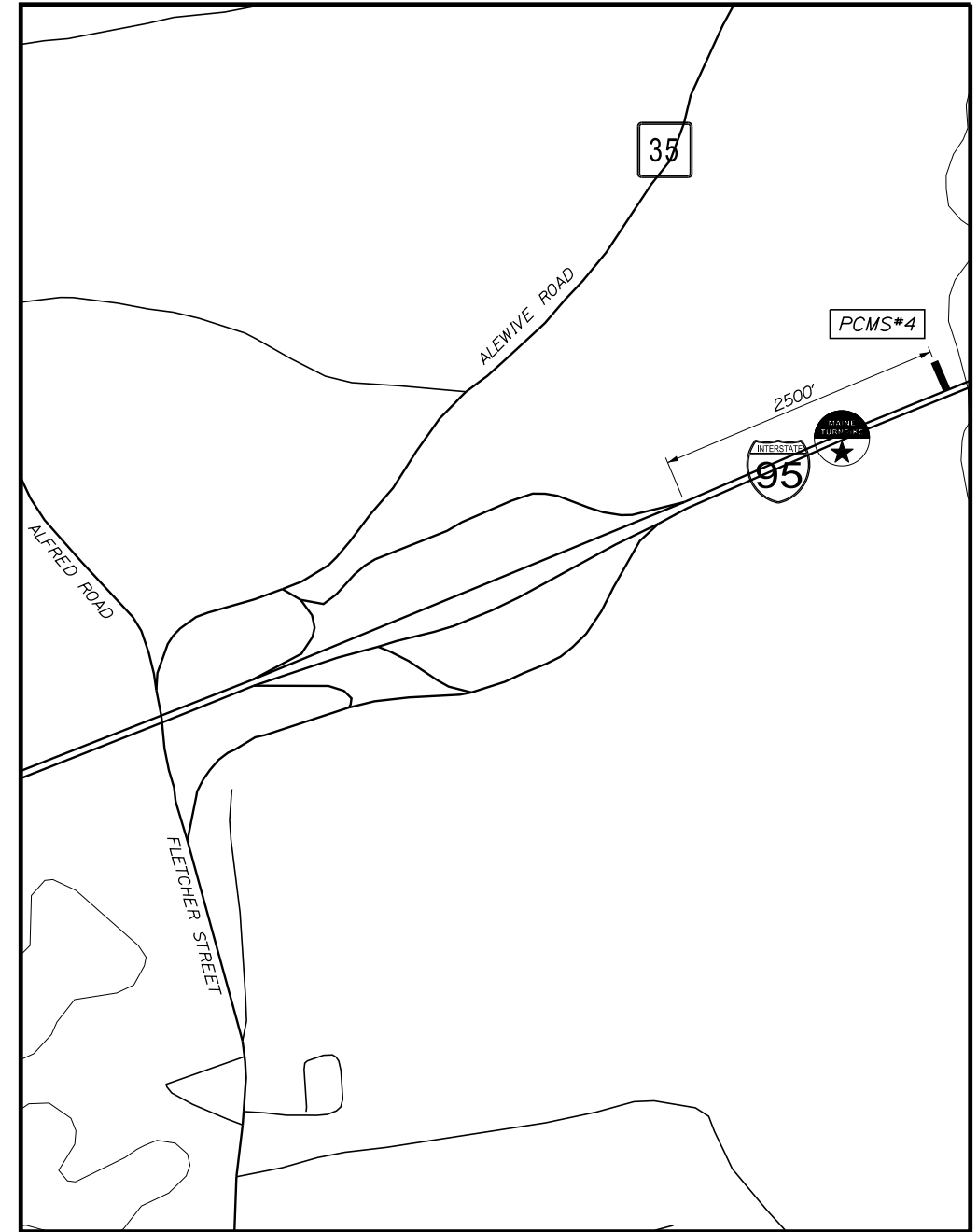
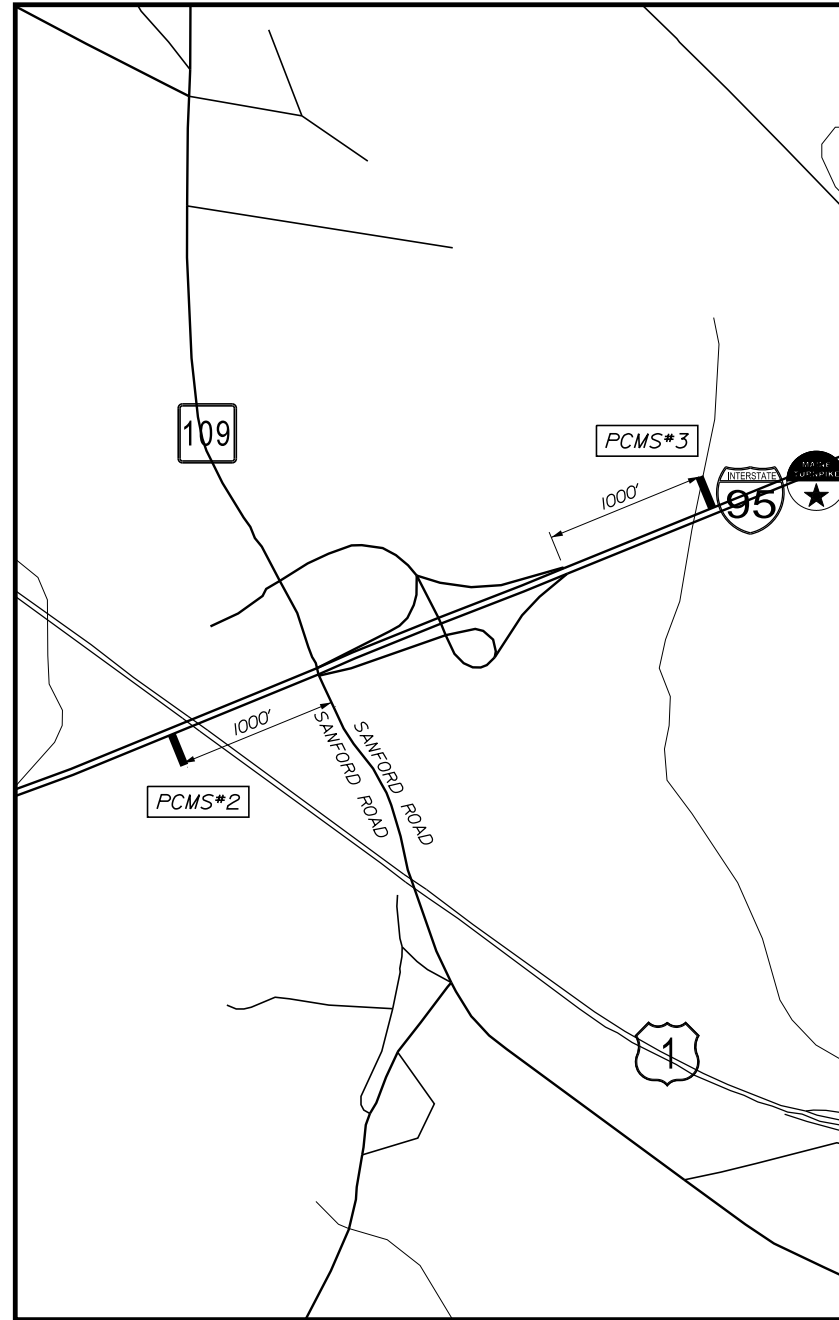
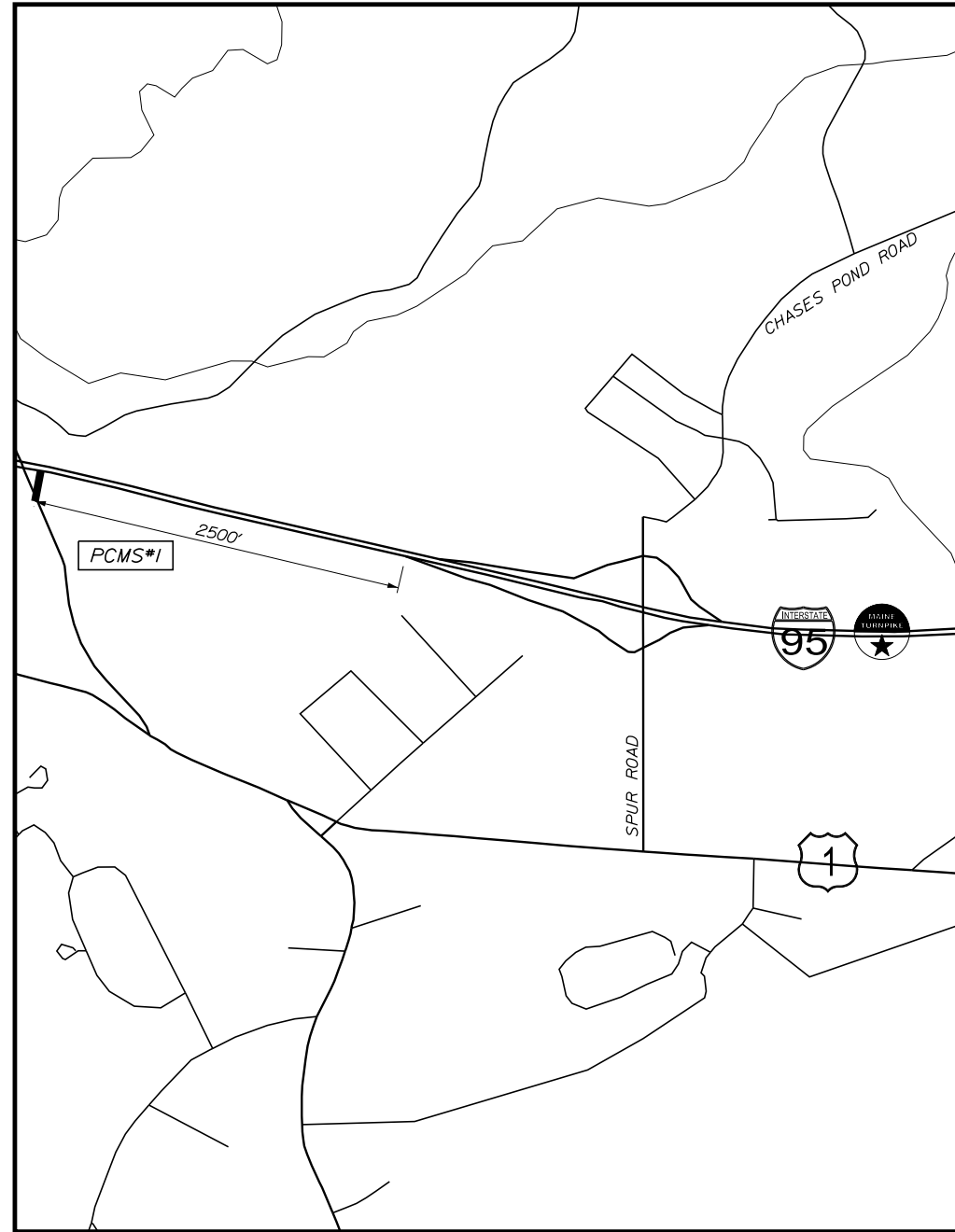
EXIT 19
RAMP
CLOSED SCREEN 1

USE
EXIT 25 SCREEN 2



Date: 1/20/2025

Filename: ...MSTA\MOT_Ramp_Closure2.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**

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

**PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
MAINTENANCE OF TRAFFIC
EXIT 19 OFF RAMP CLOSURE PLAN**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

CONTRACT: 2025.01

SHEET NUMBER: MT-07

12 OF 40

LEGEND:

— PCMS

NOTES:

1. RAMP MAY BE CLOSED FOR NIGHTTIME WORK ONLY.
2. RAMP SHALL BE OPENED WHEN WORK IS NOT OCCURRING.

ALL PCMS (1WEEK PRIOR TO CLOSURE)

PCMS #5, #6 & #7

I-95 XX
EXIT 19
TO CLOSE
SCREEN 1

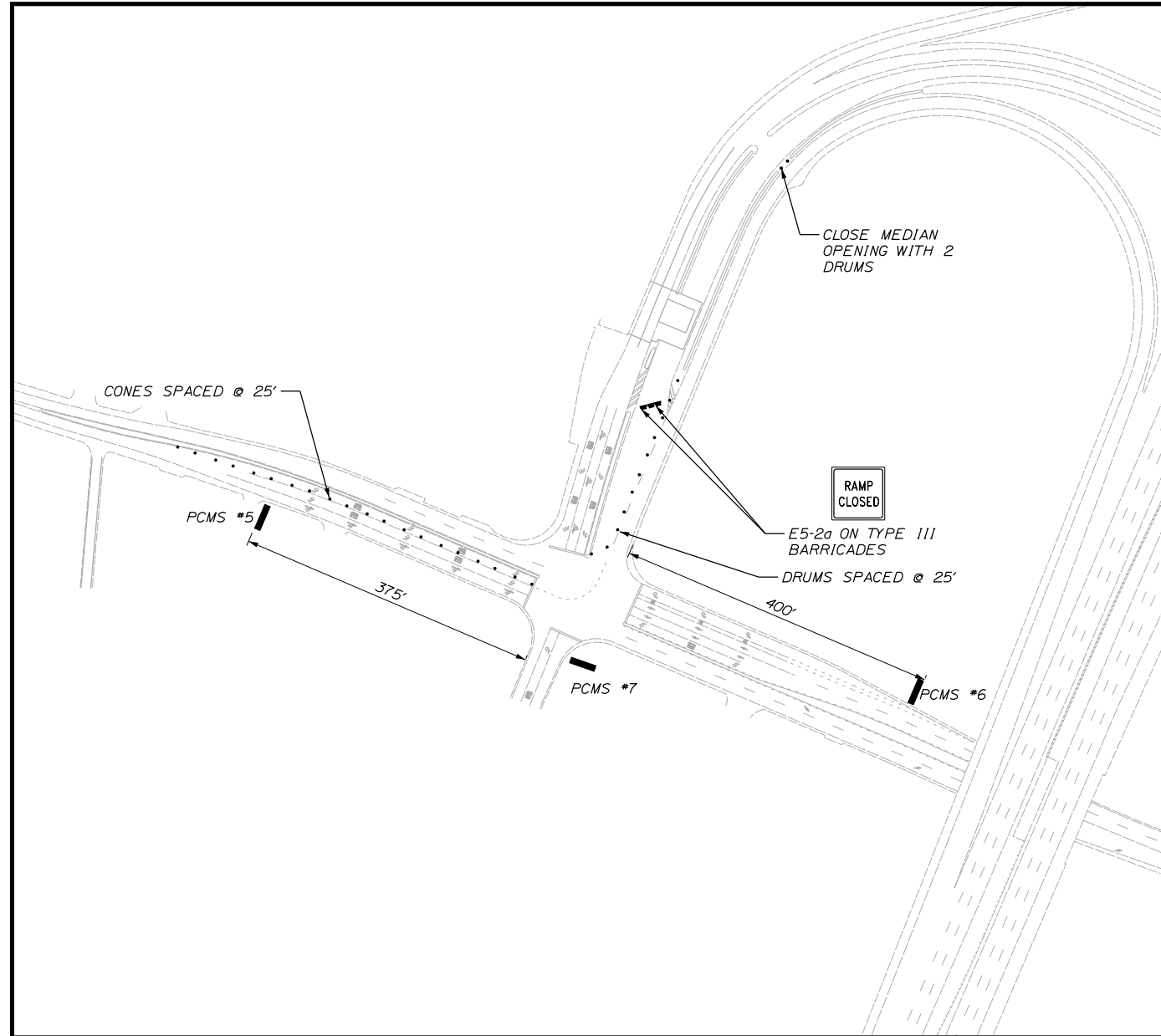
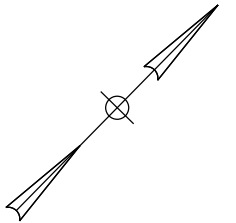
I-95 XX
EXIT 19
CLOSED
SCREEN 1

XX/XX
TO
XX/XX
SCREEN 2

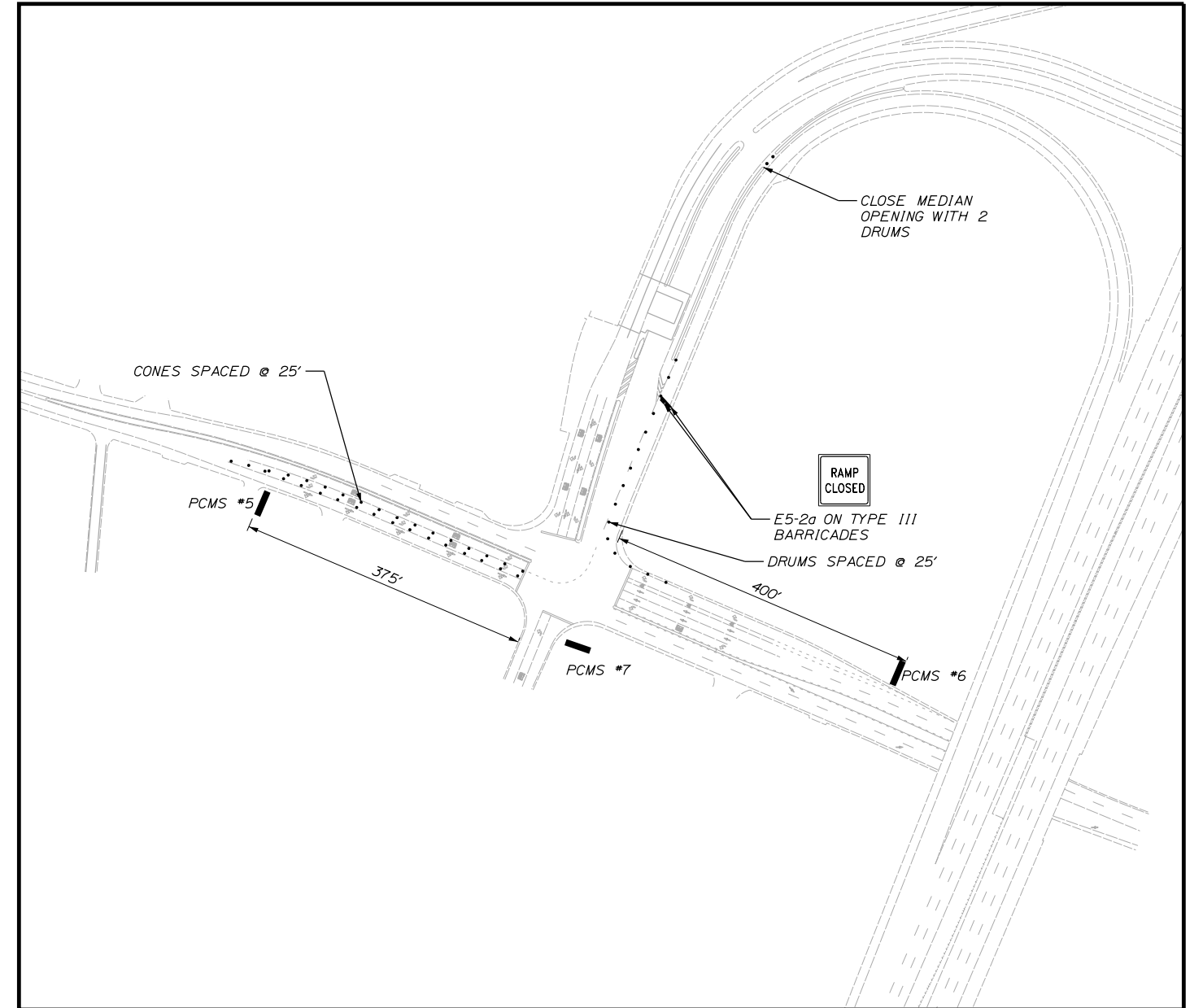
USE
ROUTE 1
SCREEN 2

XX:XX PM
TO
XX:XX AM
SCREEN 3

PCMS MESSAGES



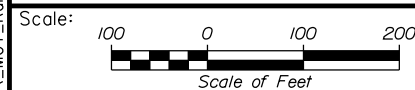
NORTHBOUND ON RAMP CLOSURE



SOUTHBOUND ON RAMP CLOSURE

Date: 1/20/2025

Filename: ...MSTA\MOT_Ramp_Closure2.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**

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
MAINTENANCE OF TRAFFIC
EXIT 19 ON RAMP CLOSURE PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE










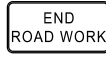
CONTRACT: 2025.01







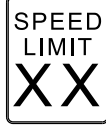



SHEET NUMBER: MT-08

13 OF 40

Date: 1/20/2025

Filename: ...MSTA_MOTSignSummary.dgn

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
CS-3	48"	48"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			8	16.00	128.00
CS-4	48"	48"		ORANGE	BLACK				2	16.00	32.00
CS-10	48"	48"		ORANGE	BLACK				4	16.00	64.00
CS-11	48"	48"		ORANGE	BLACK				6	16.00	96.00
CS-33	96"	36"		ORANGE	BLACK				4	24.00	96.00
CS-44	60"	36"		ORANGE	BLACK				1	15.00	15.00
E5-1	48"	36"		GREEN	WHITE				2	12.00	24.00
E5-2	48"	36"		ORANGE	BLACK				2	12.00	24.00
E5-2a	48"	36"		ORANGE	BLACK				6	12.00	72.00
G20-2	48"	24"		ORANGE	BLACK				16	8.00	128.00

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)		
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA	
G20-5aP	48"	24"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			40	8.00	320.00	
M1-1	36"	36"		RED/BLUE	WHITE				7	9.00	63.00	
M3-1	24"	12"		ORANGE	BLACK				4	2.00	8.00	
M3-3	24"	12"		ORANGE	BLACK				4	2.00	8.00	
R1-1	48"	48"		RED	WHITE				2	16.00	32.00	
R1-2	60"	60"	60"		RED	WHITE				2	12.50	25.00
R2-1 (50) (60)	48"	60"		WHITE	BLACK				8 36	20.00	160.00 720.00	
R2-6aP	48"	24"		ORANGE	BLACK				36	8.00	288.00	
R2-12	36"	54"		ORANGE	BLACK				16	13.5	216.00	
R4-9	36"	48"		WHITE	BLACK				6	12.00	72.00	

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

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
MAINTENANCE OF TRAFFIC
SIGN SUMMARY (1 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

CONTRACT: 2025.01

SHEET NUMBER: MT-09
14 OF 40

Date: 1/20/2025

Filename: ...MSTA_MOTSignSummary.dgn

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
WI-4BL	48"	48"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			4	16.00	64.00
WI-4BR	48"	48"		ORANGE	BLACK				4	16.00	64.00
W3-1	48"	48"		ORANGE	BLACK				2	16.00	32.00
W3-2	48"	48"		ORANGE	BLACK				2	16.00	32.00
W3-4	48"	48"	BE PREPARED TO STOP	ORANGE	BLACK				8	16.00	128.00
W3-5 (50) (60)	48"	48"		ORANGE / WHITE	BLACK				8 / 12	16.00 / 16.00	128.00 / 192.00
W4-1	48"	48"		ORANGE	BLACK				2	16.00	32.00
W4-2L	48"	48"		ORANGE	BLACK				12	16.00	192.00
W4-2R	48"	48"		ORANGE	BLACK				12	16.00	192.00
W4-3R	48"	48"		ORANGE	BLACK				1	16.00	16.00

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
W4-5p	24"	30"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			2	5.00	10.00
W5-1	48"	48"	ROAD NARROWS	ORANGE	BLACK				4	16.00	64.00
W7-3aP (1 MILE)	36"	30"	NEXT X MILE	ORANGE	BLACK				8	7.50	60.00
W8-1	48"	48"	BUMP	ORANGE	BLACK				12	16.00	192.00
W8-11	48"	48"	UNEVEN LANES	ORANGE	BLACK				4	16.00	64.00
W8-15	48"	48"	GROOVED PAVEMENT	ORANGE	BLACK				11	16.00	176.00
W8-15P	30"	24"		ORANGE	BLACK				11	5.00	55.00
W8-24a	48"	48"	RUMBLE STRIPS AHEAD	ORANGE	BLACK				8	16.00	128.00
W13-4p	36"	36"	ON RAMP	ORANGE	BLACK				2	9.00	18.00
W16-4P	36"	30"	NEXT 1000 FT	ORANGE	BLACK				8	7.50	60.00

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

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
MAINTENANCE OF TRAFFIC
SIGN SUMMARY (2 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

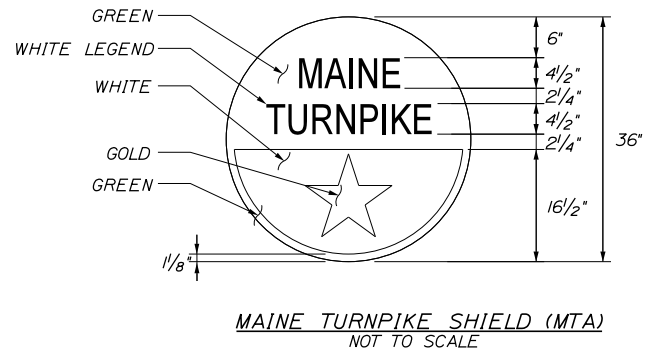
CONTRACT: 2025.01

SHEET NUMBER: MT-10
15 OF 40

Date: 1/20/2025

Filename: ...MSTA_MOTSignSummary.dgn

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)		
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA	
W16-9p	24"	12"	AHEAD	ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			2	2.00	4.00	
W20-1 (AHEAD) (1 MILE)	48"	48"	ROAD WORK AHEAD	ORANGE	BLACK				16	16.00	256.00	
W20-5aL (1/2 MILE)	48"	48"	2 LEFT LANES CLOSED 1/2 MILE	ORANGE	BLACK				4	16.00	64.00	
W20-5aR (1/2 MILE)	48"	48"	2 RIGHT LANES CLOSED 1/2 MILE	ORANGE	BLACK				4	16.00	64.00	
W20-5L (1/2 MILE)	48"	48"	LEFT LANE CLOSED 1/2 MILE	ORANGE	BLACK				4	16.00	64.00	
W20-5R (1/2 MILE)	48"	48"	RIGHT LANE CLOSED 1/2 MILE	ORANGE	BLACK				4	16.00	64.00	
W21-5	48"	48"	SHOULDER WORK	ORANGE	BLACK				4	16.00	64.00	
W21-5aR (RIGHT)	48"	48"	RIGHT SHOULDER CLOSED	ORANGE	BLACK				1	16.00	16.00	
W21-5bR (RIGHT)	48"	48"	RIGHT SHOULDER CLOSED 1000 FT	ORANGE	BLACK				1	16.00	16.00	
LOGO S	36"	36"	MAINE TURNPIKE	SEE DETAILS						7	9.00	63.00



Scale: NOT TO SCALE

Designed by: Stantec

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

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
MAINTENANCE OF TRAFFIC
SIGN SUMMARY (3 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

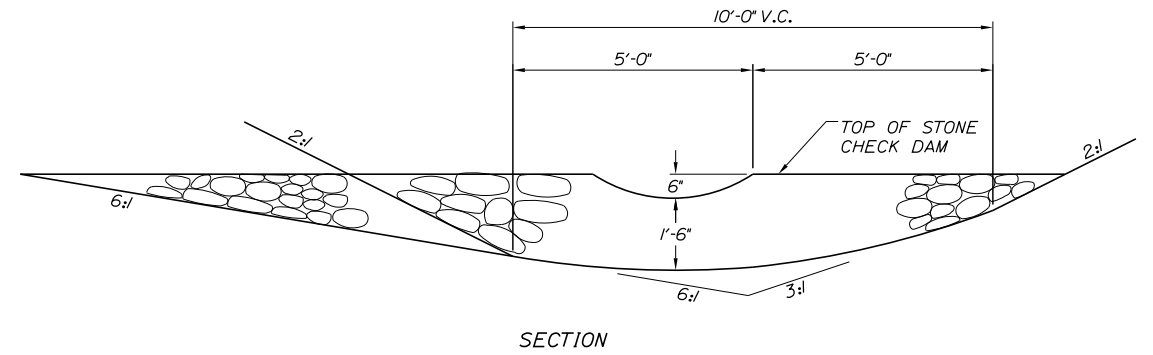
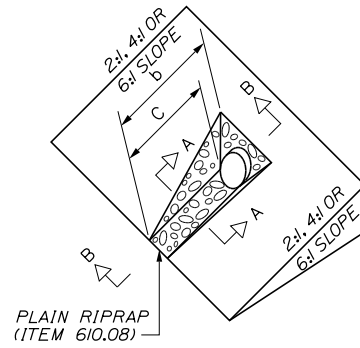
CONTRACT: 2025.01

SHEET NUMBER: MT-11

16 OF 40

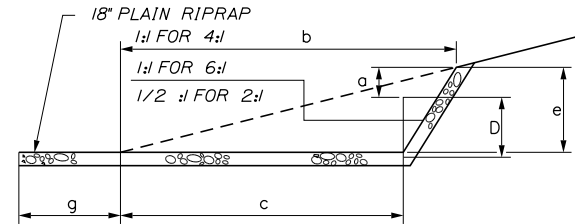
DIMENSIONS FOR SLOPE OF 2:1

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

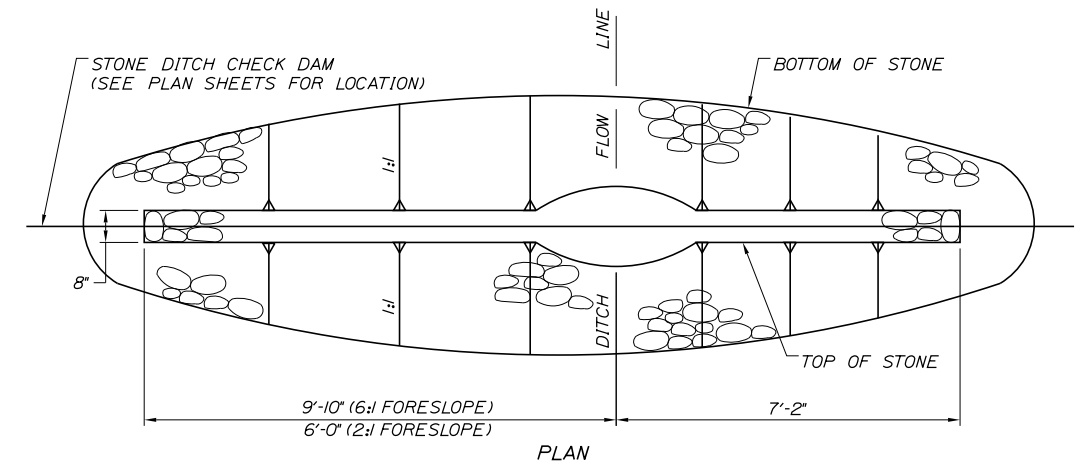


DIMENSIONS FOR SLOPE OF 4:1

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



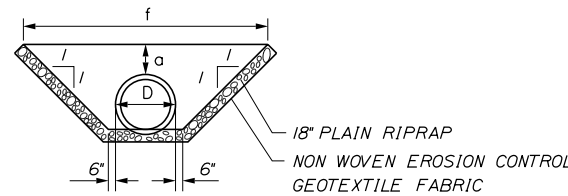
SECTION B-B



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.

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.

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

STONE CHECK DAM

Date: 1/20/2025

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

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

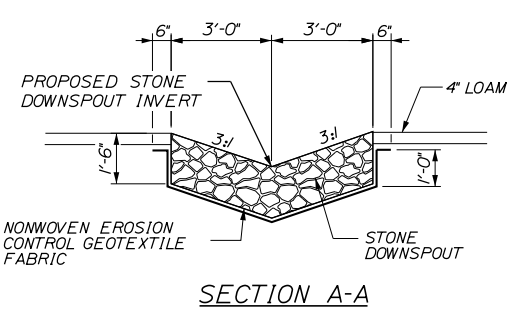
PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
DRAINAGE DETAILS
(1 OF 2)

SHEET NUMBER: DT-01
17 OF 40

CONTRACT: 2025.01

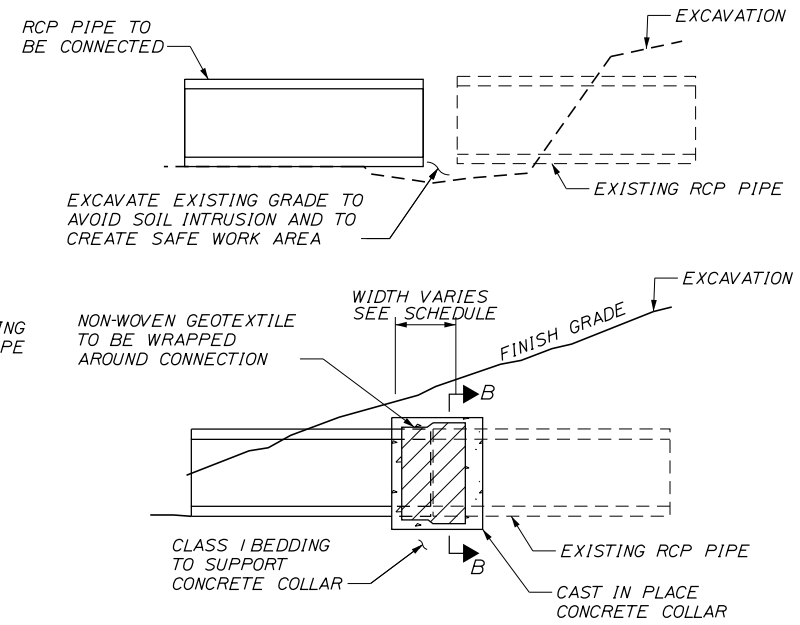
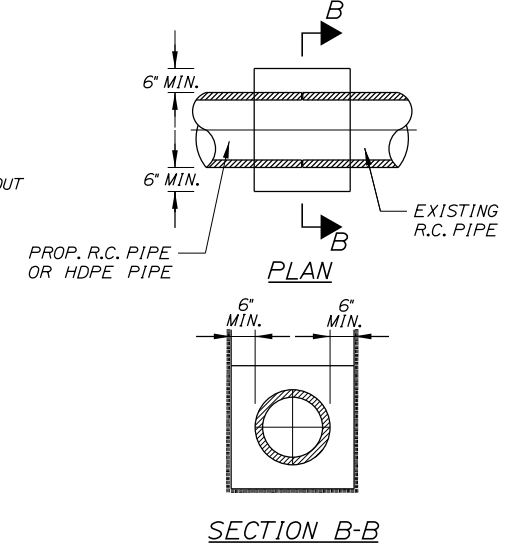
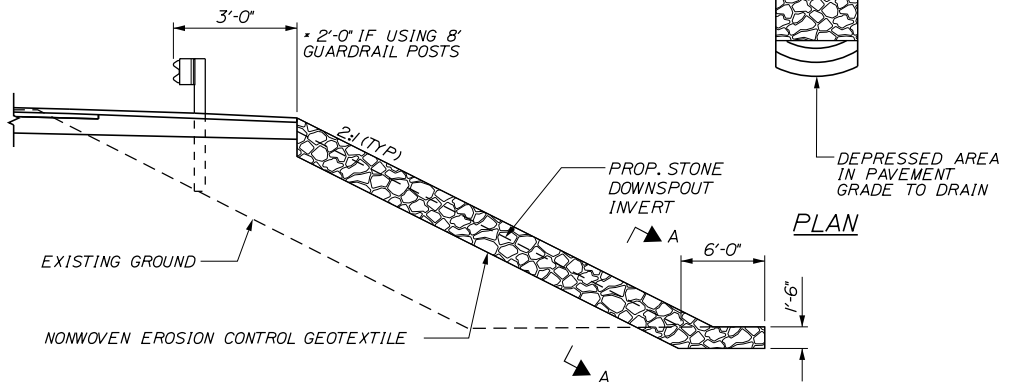
Date: 1/20/2025

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



- NOTES:**
- 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.
 - CURBING MUST BE IN PLACE PRIOR TO GUARDRAIL INSTALLATION.

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



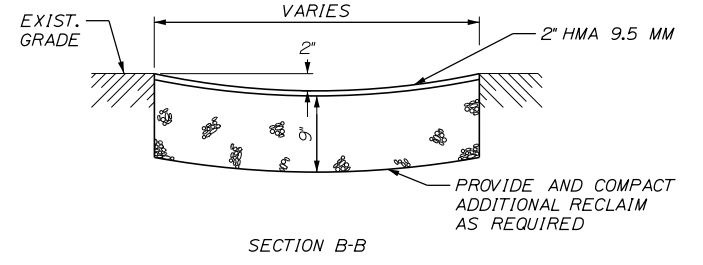
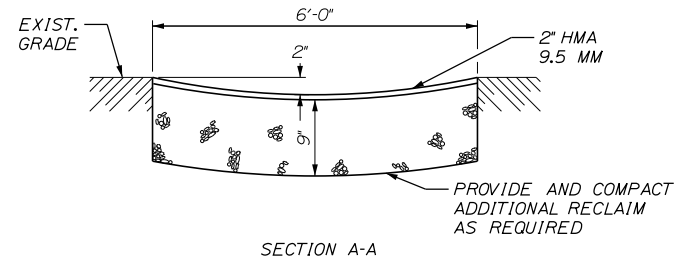
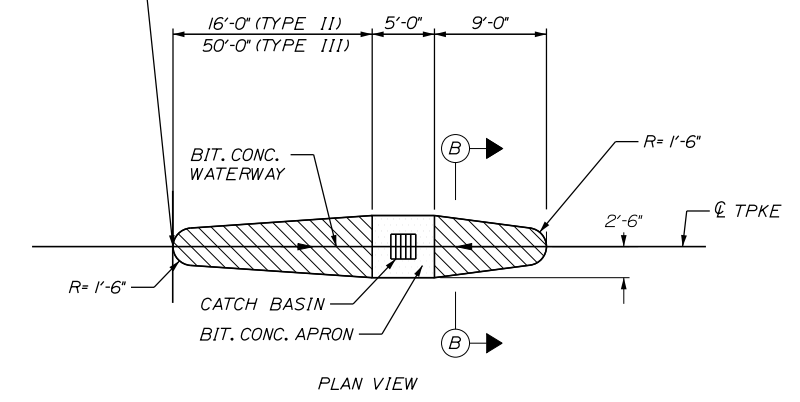
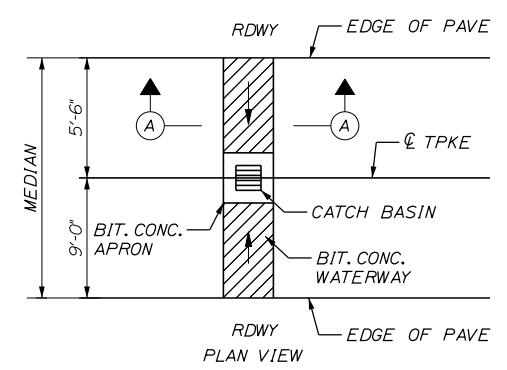
CONCRETE COLLAR WIDTH SCHEDULE

PIPE DIA. (INCHES)	WIDTH OF CONC. (INCHES)
12	24
15	24
18	24
24	24
30	30
36	36
42	48
48	48

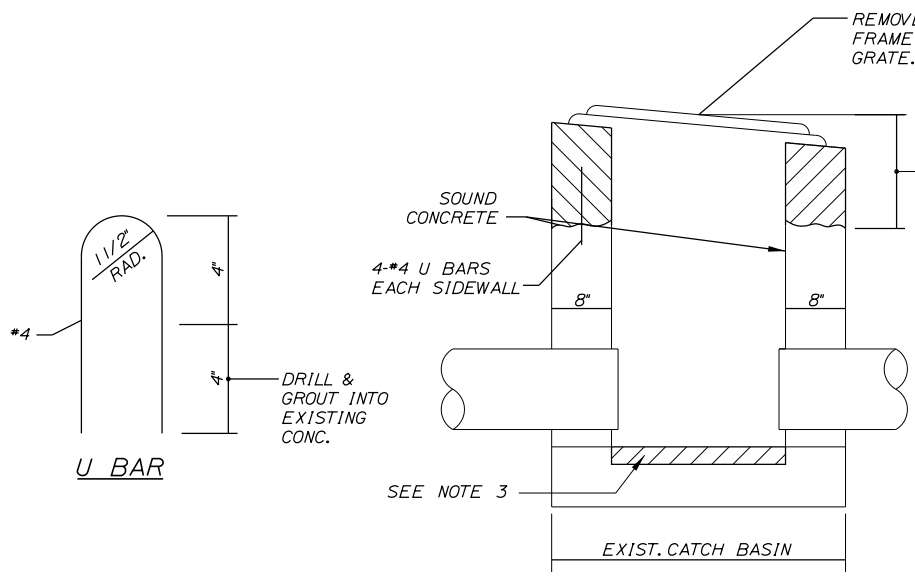
- NOTES:**
- CONNECTION AND PIPE TO BE BACKFILLED PER ASTM D2321 (CRUSHED STONE).
 - CONCRETE SHALL BE CLASS A FIBER REINFORCED.
 - SEE CONCRETE COLLAR WIDTH SCHEDULE FOR DIMENSIONS.

CONCRETE COLLAR FOR REINFORCED CONCRETE PIPES

INSTALL 9" WIDE PERMEABLE PLASTIC BERMS AT START OF BITUMINOUS CONCRETE WATERWAY - TYPE III. PAYMENT FOR PERMEABLE PLASTIC BERMS SHALL BE INCLUDED IN THE BITUMINOUS CONCRETE WATERWAY - TYPE III ITEM.



BITUMINOUS CONCRETE WATERWAY, TYPE I N.T.S. BITUMINOUS CONCRETE WATERWAY, TYPE II & TYPE III N.T.S.



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:**
- EXISTING CATCH BASINS NOTED IN THE PLANS SHALL BE REBUILT WITH THE FRAME AND GRATE SET, AND CONCRETE FINISHED, TO THE FINAL PAVEMENT GRADE.
 - RESET EXISTING FRAME AND GRATE 1/4" LOWER THAN ADJACENT PAVEMENT. IF ANY FRAMES OR GRATES ARE NOT REUSABLE, NEW GRATES OR FRAMES SHALL BE SUPPLIED BY THE AUTHORITY.
 - REMOVE UNSOUND CONCRETE (2" MIN.) AND REPLACE WITH NEW CONCRETE IF DIRECTED BY THE RESIDENT.
 - EXISTING LOW POINT CATCH BASIN GRATES SHALL BE REMOVED, PLATED, AND PAVED OVER PRIOR TO MILLING AND REINSTALLED PRIOR TO PAVING.

REBUILD CATCH BASIN TO GRADE - TYPE II

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

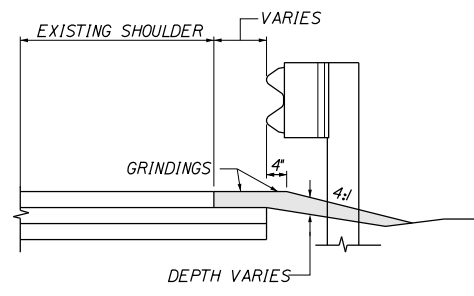
PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 DRAINAGE DETAILS
 (2 OF 2)

SHEET NUMBER: DT-02
 18 OF 40

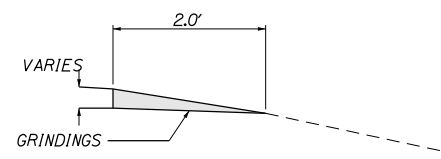
CONTRACT: 2025.01

Date: 1/20/2025

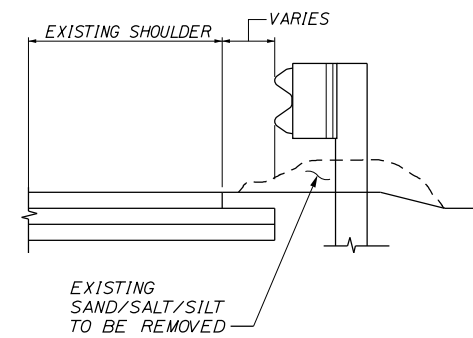
Filename: ...:\00\HIGHWAY\MSTA\..._Details.dgn



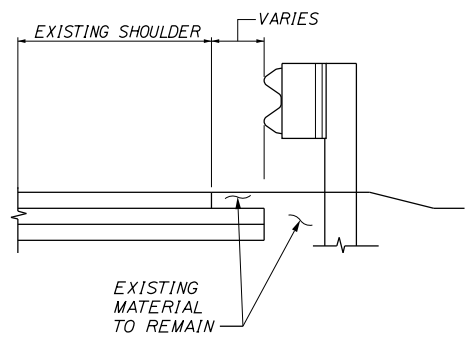
DETAIL A
BERM DROPOFF CORRECTION
WITH GUARDRAIL



DETAIL B
BERM DROPOFF CORRECTION
WITHOUT GUARDRAIL

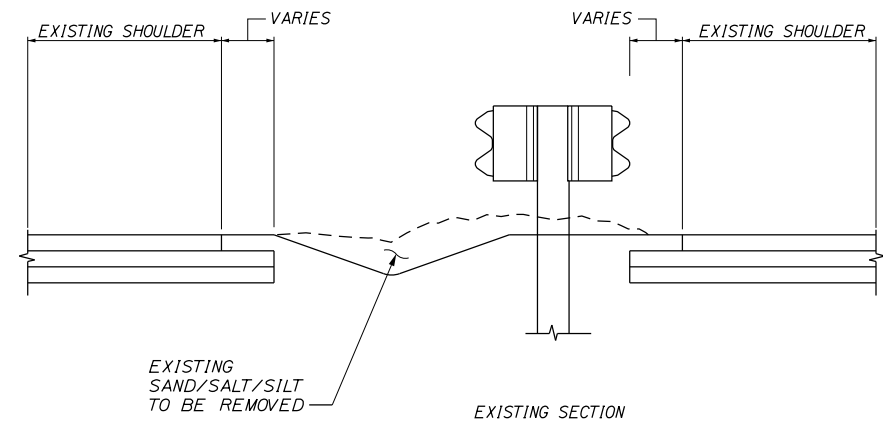


EXISTING SECTION

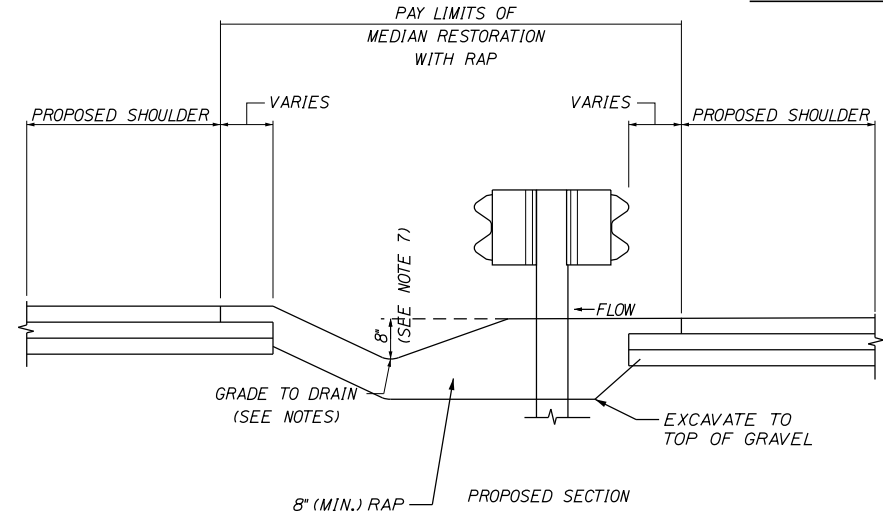


PROPOSED SECTION

BERM CORRECTION WITH SAND REMOVAL

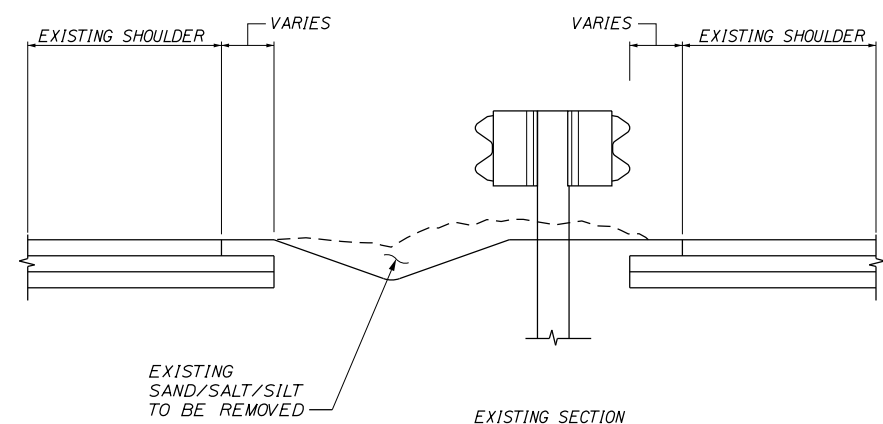


EXISTING SECTION

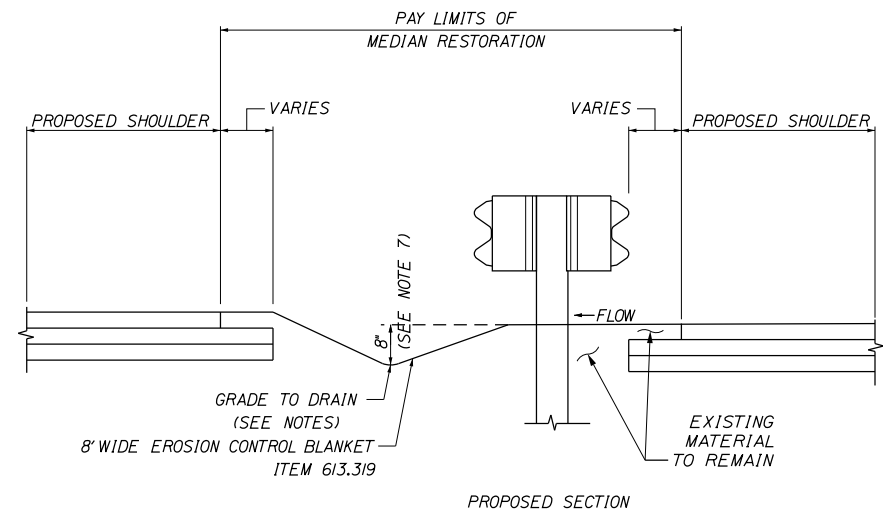


PROPOSED SECTION

MEDIAN RESTORATION WITH RAP
STA. 644+00 TO STA. 650+94



EXISTING SECTION



PROPOSED SECTION

MEDIAN RESTORATION

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 470.0801. BERM CORRECTION WILL BE PAID UNDER ITEM 470.081. MEDIAN RESTORATION WILL BE PAID UNDER ITEM 211.50.
4. TAPER SLOPE DOWN TO CATCH BASINS TO PREVENT DROP OFF. USE DEPTH GREATER THAN 8" IN TAPER SECTION IF REQUIRED.
5. HYDROSEEDING WITH FIBER MULCH SHALL BE USED IN THE MEDIAN. NO STRAW OR HAY MULCH SHALL BE USED. PAYMENT FOR HYDROSEEDING SHALL BE MADE UNDER SEEDING METHOD NO. 2.
6. ALL MATERIAL UNDER GUARDRAIL THAT WILL PREVENT SHEET FLOW FROM PROPOSED SHOULDER TO MEDIAN SHALL BE REMOVED. THIS IS INCLUDED AS PART OF THE MEDIAN RESTORATION ITEM * 211.50. IF SAW CUTTING IS REQUIRED TO FACILITATE THE REMOVAL OF PAVEMENT TO ACHIEVE SHEET FLOW, THE SAW CUTTING WILL BE PAID FOR UNDER ITEM 419.30.
7. MEDIAN SWALE SHALL BE 8 INCHES BELOW LOWEST EDGE OF PAVEMENT.
8. INSTALL 9" WIDE PERMEABLE PLASTIC BERMS EVERY 300' OF MEDIAN RESTORATION WITH RAP. PAYMENT FOR PERMEABLE PLASTIC BERMS SHALL BE INCLUDED IN THE MEDIAN RESTORATION WITH RAP ITEM.
9. MEDIAN RESTORATION SHALL BE FLUSH WITH THE FINISH EDGE OF PAVEMENT. BERM DROPOFF CORRECTION WILL NOT BE PAID FOR IN ADDITION TO MEDIAN RESTORATION.
10. ANY REQUIRED LOAM TOUCH UP FOR MEDIAN RESTORATION AREAS AFTER PAVING SHALL BE INCIDENTAL TO THE MEDIAN RESTORATION ITEM.
11. WHERE EXISTING MEDIAN OPENINGS ARE BEING CLOSED, THE EXISTING PAVEMENT SHALL BE SAWCUT TO MATCH THE ADJACENT SHOULDER WIDTHS AND THE MEDIAN SHALL BE REGRADED UNDER THE MEDIAN RESTORATION ITEM. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE MEDIAN REGRADED.
12. RAP USED FOR MEDIAN RESTORATION WITH RAP SHALL BE CLASS 1.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

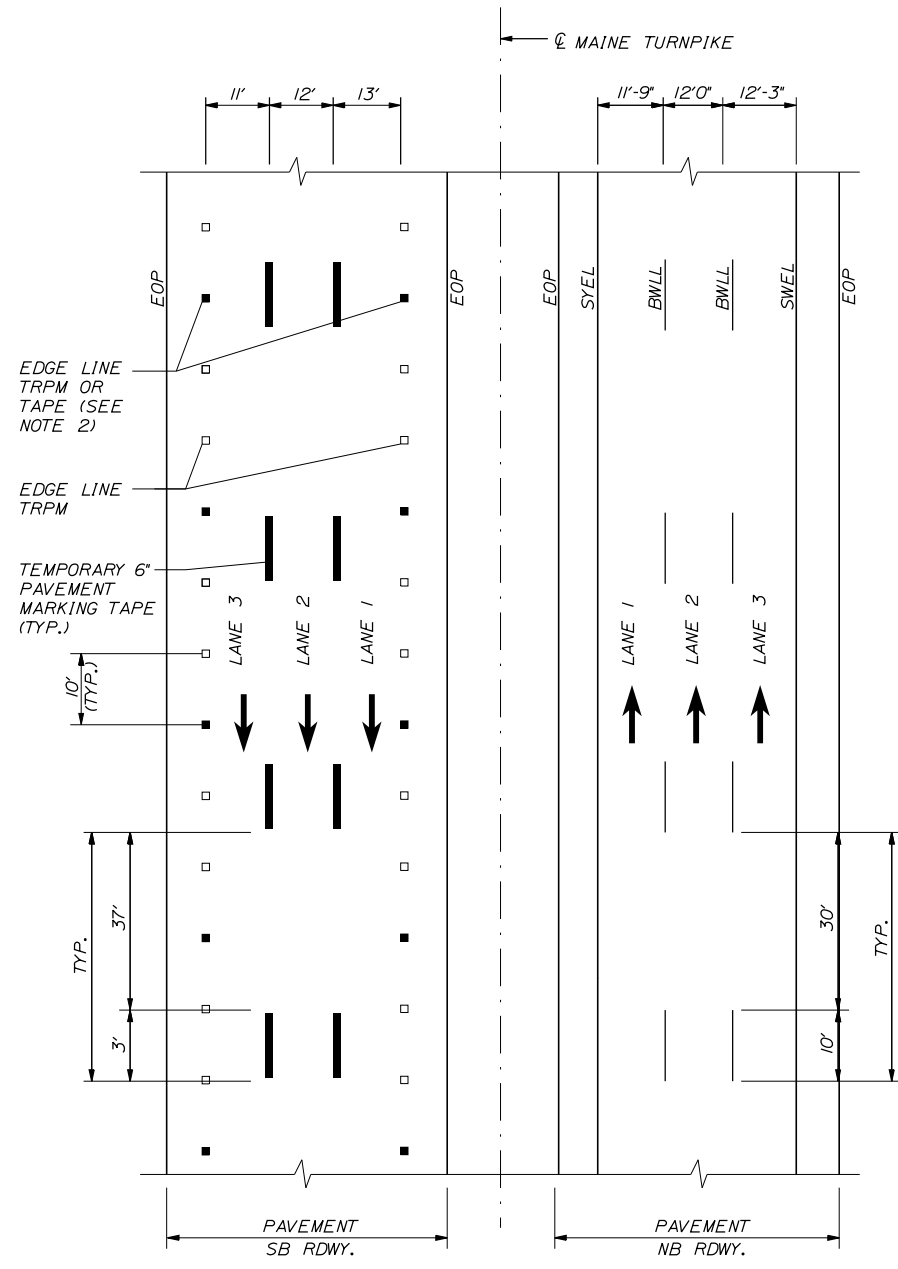
MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
BERM DROPOFF CORRECTION AND
MEDIAN RESTORATION DETAILS

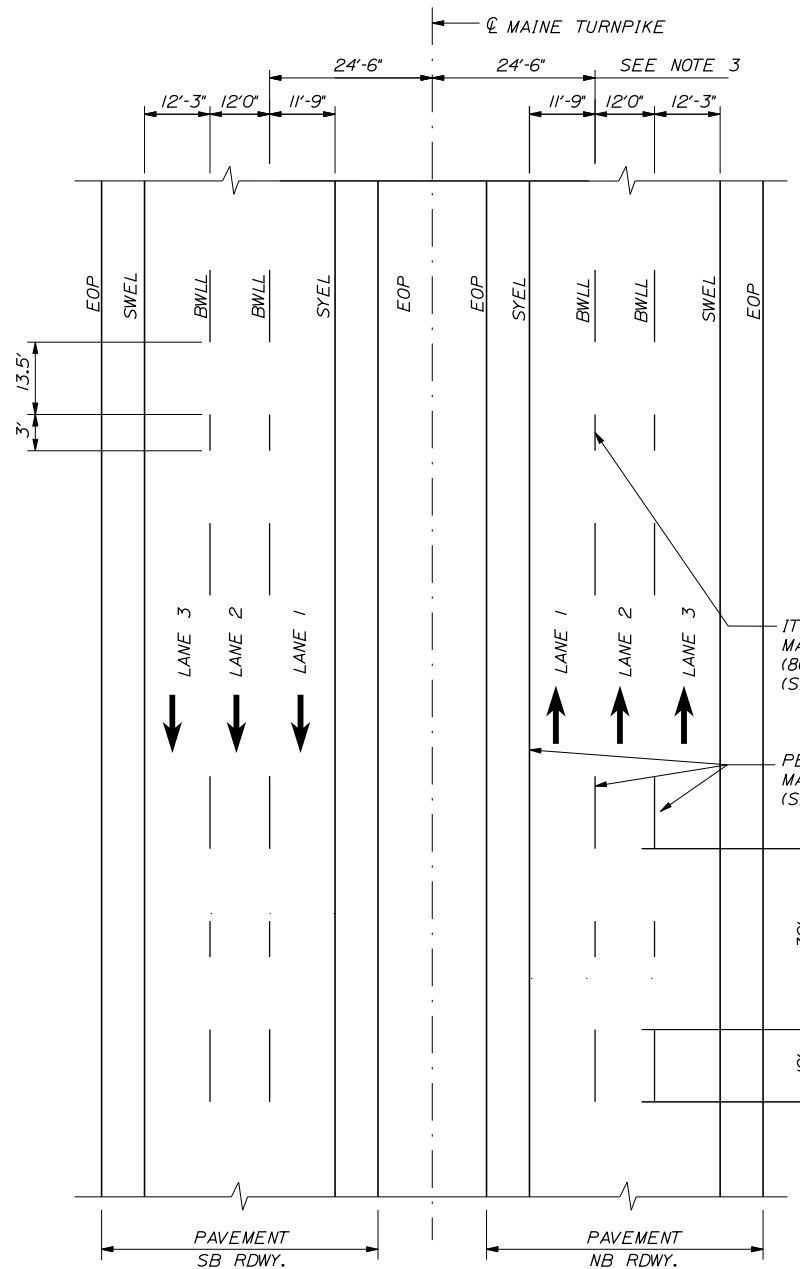
SHEET NUMBER: DT-03
CONTRACT: 2025.01
19 OF 40

Date: 1/20/2025

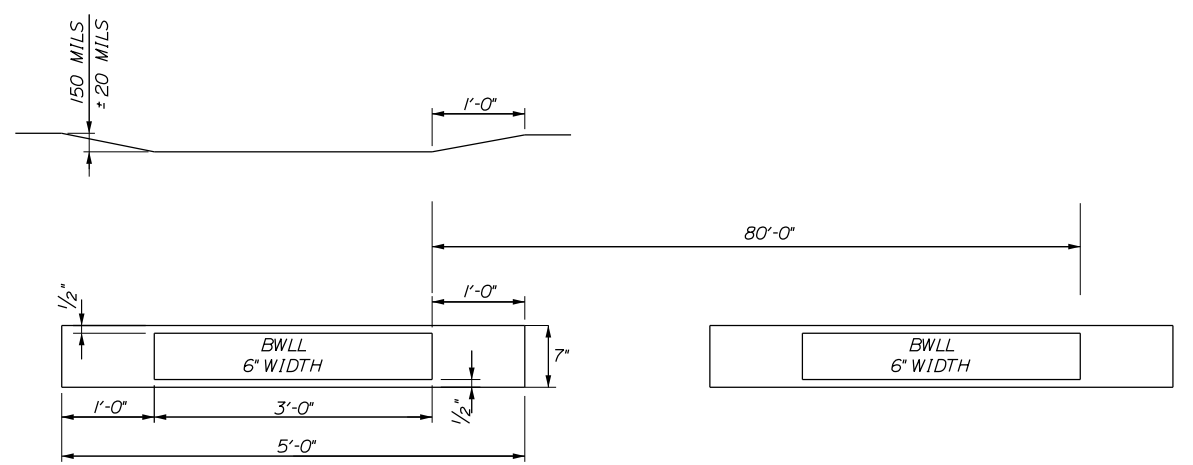
Filename: ...000.HIGHWAY\MSTA\...Details.dgn



TEMP. RAISED MARKERS AND TEMP. TAPE (SEE NOTE 2)
 PAVEMENT MARKING - PAINT (SEE NOTE 1)
**TEMPORARY PAVEMENT MARKINGS
 3 LANE RDWY.**



PERMANENT PAVEMENT MARKINGS
 3 LANE RDWY.



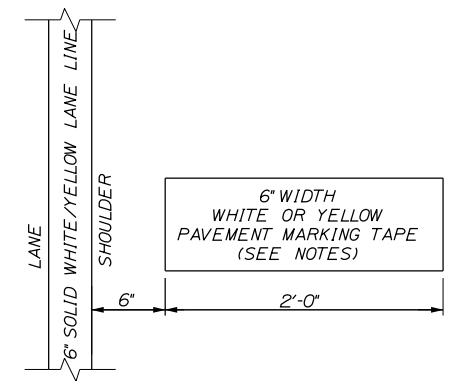
ITEM 627.94 PERMANENT PAVEMENT MARKINGS WITH TAPE GROOVING DETAIL

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. 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 OR SHIM SHALL BE 6" SOLID WHITE, BROKEN WHITE, OR SOLID YELLOW PAINT LINES.
2. TEMPORARY PAVEMENT MARKINGS ON SURFACE PAVEMENT SHALL BE AS FOLLOWS:
 - FOR "SOLID WHITE" AND "SOLID YELLOW" EDGE LINES TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY RAISED PAVEMENT MARKERS (TRPM) SPACED AT 10' C. TO C. EVERY THIRD RAISED PAVEMENT MARKER MAY BE REPLACED WITH A 2' PIECE OF TEMPORARY PAVEMENT MARKING TAPE.
 - FOR "BROKEN WHITE" LANE LINES TEMPORARY PAVEMENT MARKINGS SHALL BE 6" TEMPORARY PAVEMENT MARKING TAPE WITH A 3' PIECE EVERY 40' OFFSET FROM THE FINAL STRIPING LOCATION.
 - TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED TO DELINEATE SOLID RAMP EDGE LINES FROM THE PAINTED GORE TO THE LIMITS OF SURFACE PAVEMENT ON RAMP.



CATCH BASIN MARKING DETAIL

NOTES:

1. CATCH BASIN MARKINGS TO BE PLACED ADJACENT TO ALL MEDIAN AND SHOULDER CATCH BASINS.
2. PAPEMENT SHALL BE MADE UNDER ITEM 627.94 PAVEMENT MARKING TAPE.
3. TAPE COLOR SHOULD MATCH THE ADJACENT LANE STRIPING.

LEGEND

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

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

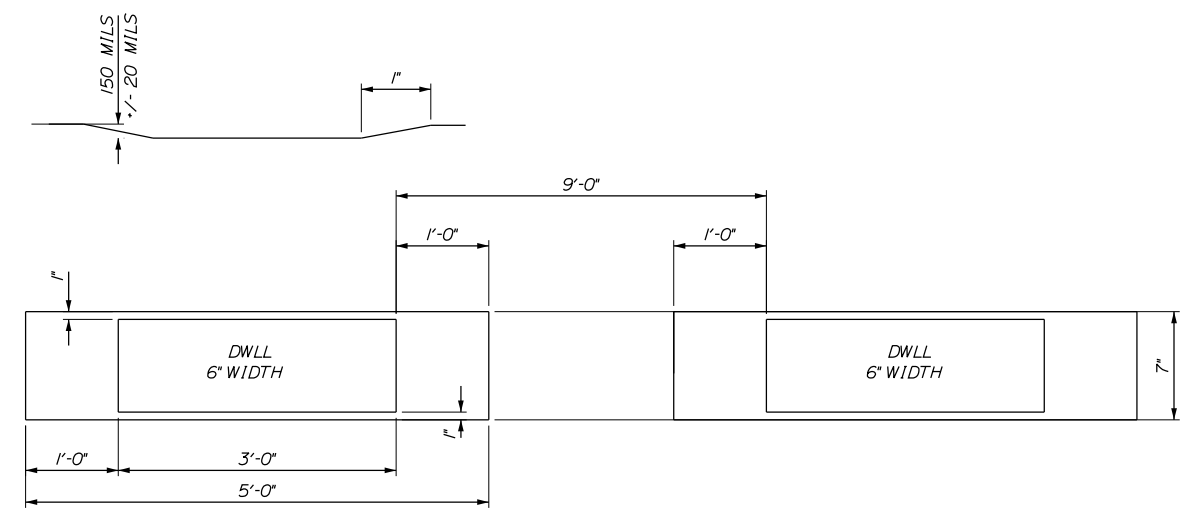
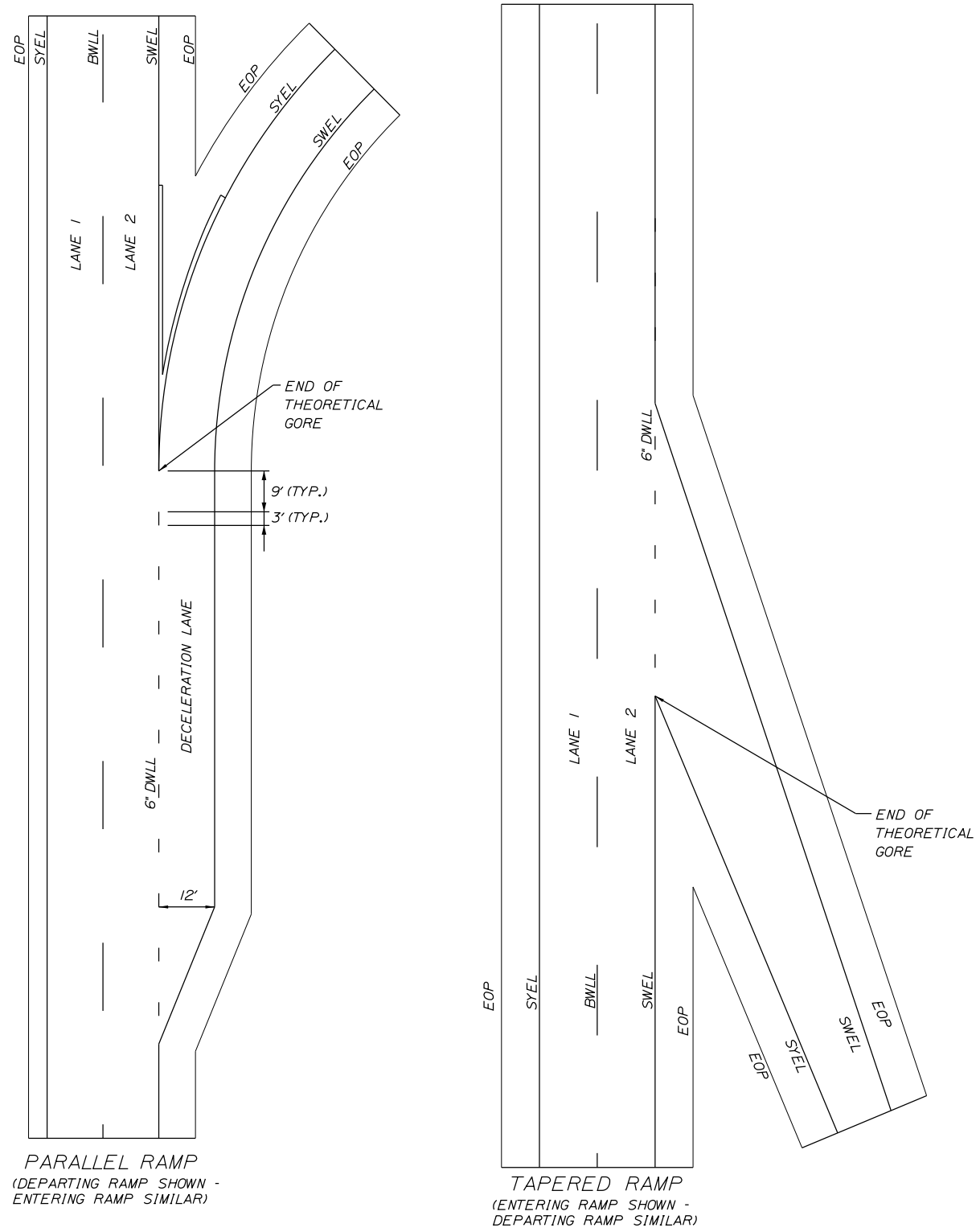
PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 STRIPING DETAILS
 (1 OF 2)

SHEET NUMBER: DT-04
 20 OF 40

CONTRACT: 2025.01

Date: 1/20/2025

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



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)
- DWLL = DOTTED 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. ITEM 627.941 PAVEMENT MARKING TAPE FOR DWLL SHALL BE INSTALLED IN AN "IN-AND-OUT" GROOVING PATTERN. SEE DETAIL THIS SHEET.
3. 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)

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
STRIPING DETAILS
(2 OF 2)

SHEET NUMBER: DT-05
CONTRACT: 2025.01
21 OF 40

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.

GUARDRAIL INSTALLATION AND MODIFICATION NOTES

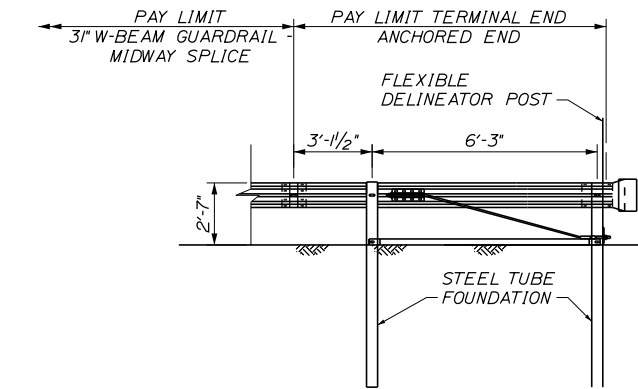
1. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION AND/OR MODIFICATION OF ANY AND ALL GUARDRAIL COMPONENTS TO BE INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IF THE CONTRACTOR DISCOVERS CONFLICTS OR IRREGULARITIES OF ANY 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. ALL DAMAGE TO GUARDRAIL COMPONENTS RESULTING FROM ADJUSTMENTS MADE TO THE GUARDRAIL SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE AUTHORITY.
8. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.
9. ALL EXISTING GUARDRAIL NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
10. ONE REFLECTORIZED FLEXIBLE GUARDRAIL MARKER SHALL BE INSTALLED AT EACH GUARDRAIL TERMINAL. TWO REFLECTORIZED FLEXIBLE GUARDRAIL MARKERS SHALL BE INSTALLED AT EACH GUARDRAIL END TREATMENT.
11. ALL PERMANENT GUARDRAIL AND END TERMINALS SHALL BE MASH 2016 COMPLIANT.
12. HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
13. TRANSITIONS FROM EXISTING GUARDRAIL TO PROPOSED MIDWAY SPLICE GUARDRAIL SHALL BE IN ACCORDANCE WITH MAINE DOT STANDARD DETAIL 606(17).

Date: 1/20/2025

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

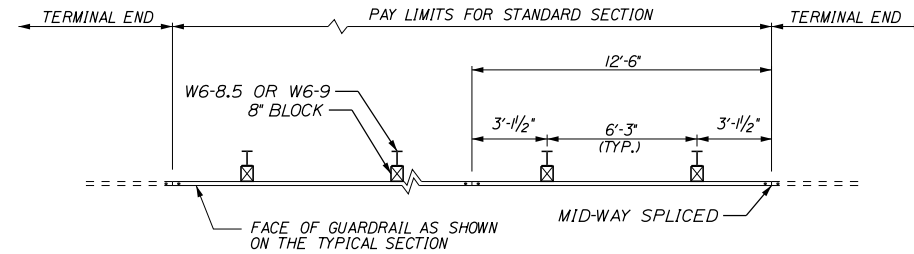
Scale: NOT TO SCALE				Designed by: Stantec				STANTEC CONSULTING SERVICES INC. 2211 CONGRESS STREET SUITE 380 PORTLAND, ME 04102 TEL (207) 887-3448 FAX (207) 883-3376				 THE GOLD STAR MEMORIAL HIGHWAY				PAVEMENT REHABILITATION MM 13.4 TO MM 20.0 GUARDRAIL DETAILS (1 OF 3)			
No.		Revision		By		Date		CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE				SHEET NUMBER: DT-06							
								Designed		By		Date		CONTRACT: 2025.01					
								Drawn		By		Date		22 OF 40					
								In Charge of		By		Date		MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE					

Date: 1/20/2025

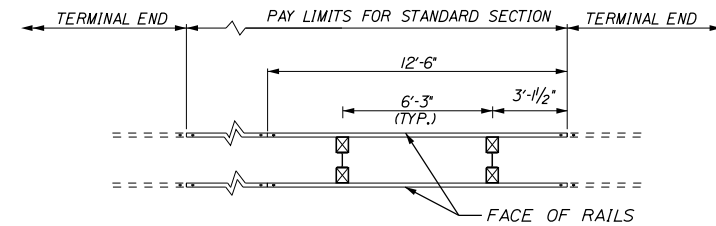


TERMINAL END - ANCHORED END - 3" W-BEAM GUARDRAIL
(ITEM 606.1351)
NOT TO SCALE

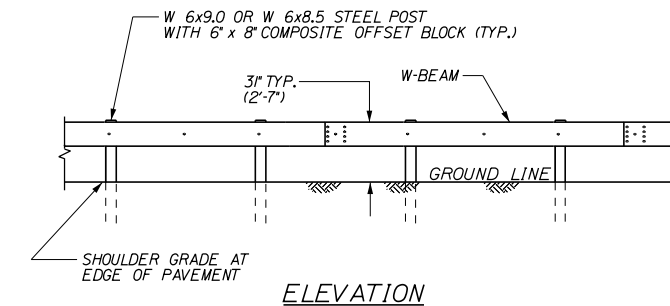
NOTES:
1. THIS DETAIL MODIFIES THE SEW31 DRAWING SUCH THAT W-BEAM DOES NOT EXTEND BEYOND THE LAST GUARDRAIL POST. THE RWM14a W-BEAM PANEL SHALL HAVE A LENGTH OF 9'-4 1/2" MEASURED FROM THE CENTER OF THE MIDWAY SPLICE TO THE CENTER OF THE LAST GUARDRAIL POST.



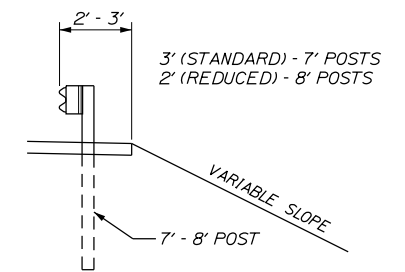
PLAN - SINGLE FACED



PLAN - DOUBLE FACED



ELEVATION



CROSS-SECTION

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

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

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date	Checked	By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

MAINE TURNPIKE

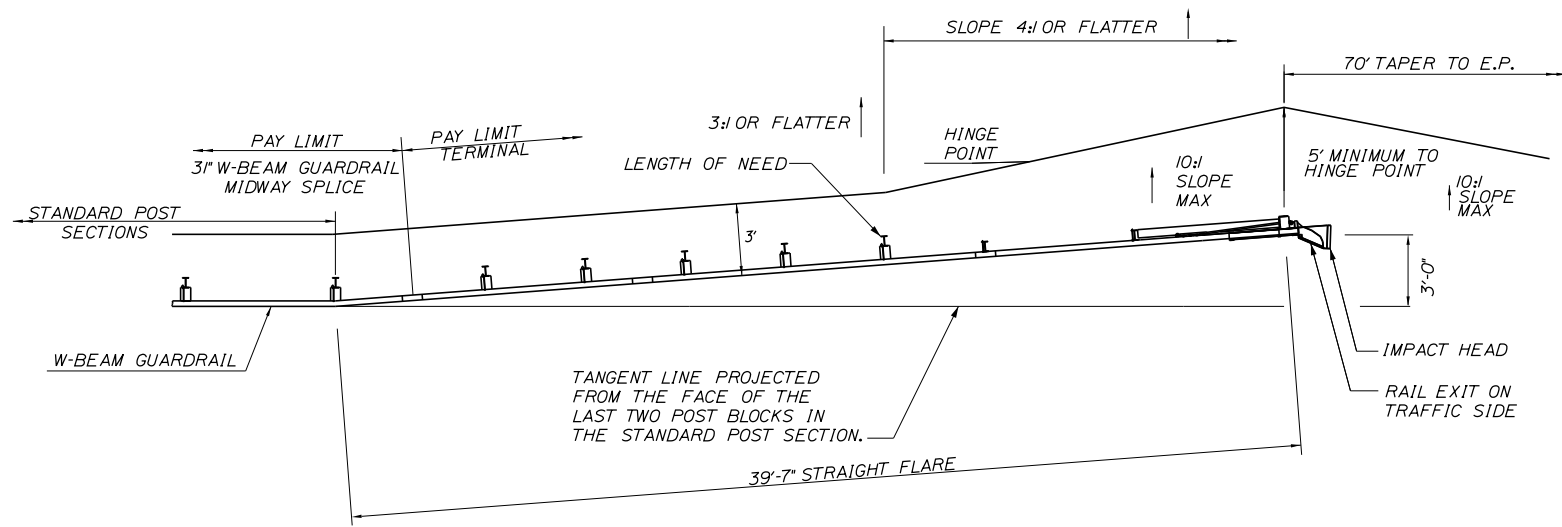
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

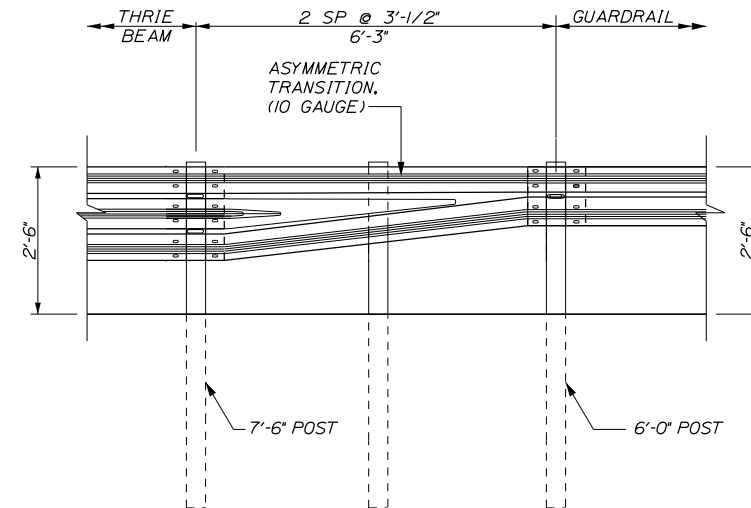
PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
GUARDRAIL DETAILS
(2 OF 3)

SHEET NUMBER: DT-07
CONTRACT: 2025.01
23 OF 40

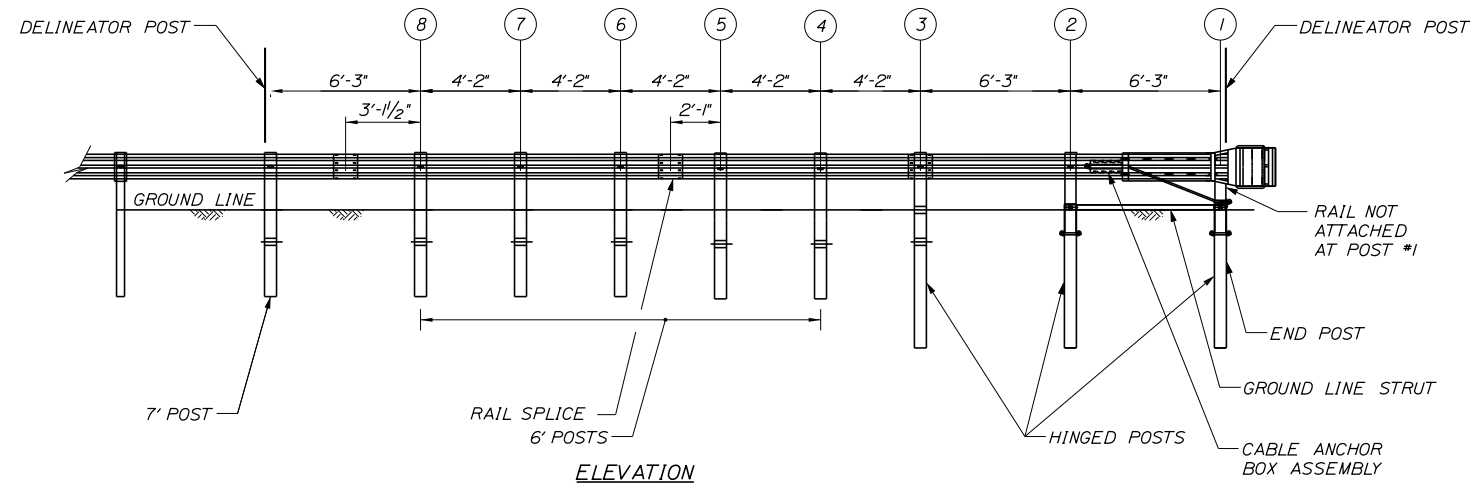
Date: 1/20/2025



PLAN



W-BEAM TO THRIE BEAM TRANSITION SECTION
NOT TO SCALE



ELEVATION

3\"/>

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 MEASURED FROM 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.
6. SEE SPECIFICATIONS FOR REFLECTIVE SHEETING REQUIREMENTS.
7. TERMINAL UNIT SHALL BE MFLEAT AND MASH 2016 COMPLIANT AS MANUFACTURED BY ROAD SYSTEMS INC.

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:						
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE						
	By	Date		By	Date	
	Designed	JRH	1\25	Checked	JRH	1\25
	Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

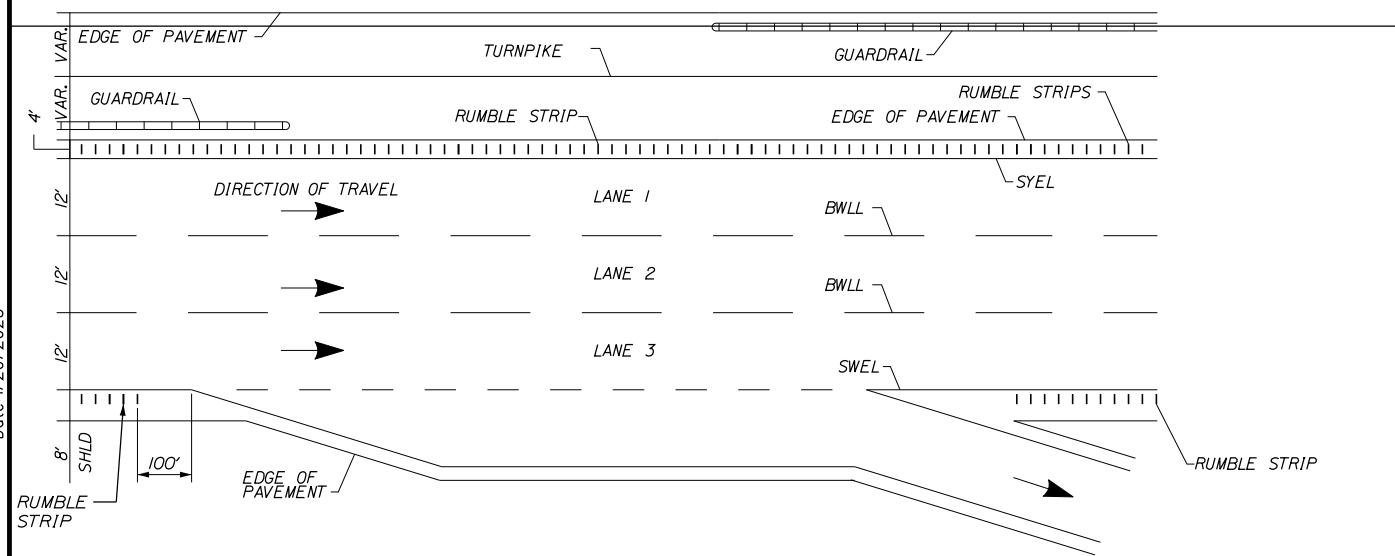
PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
GUARDRAIL DETAILS
(3 OF 3)

CONTRACT: 2025.01

SHEET NUMBER: DT-08
24 OF 40

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

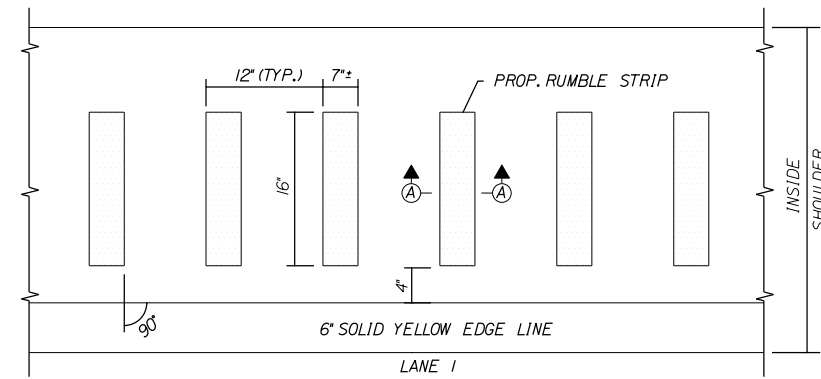
Date: 1/20/2025



LOCATION OF RUMBLE STRIPS AT ENTRANCE AND EXIT RAMP

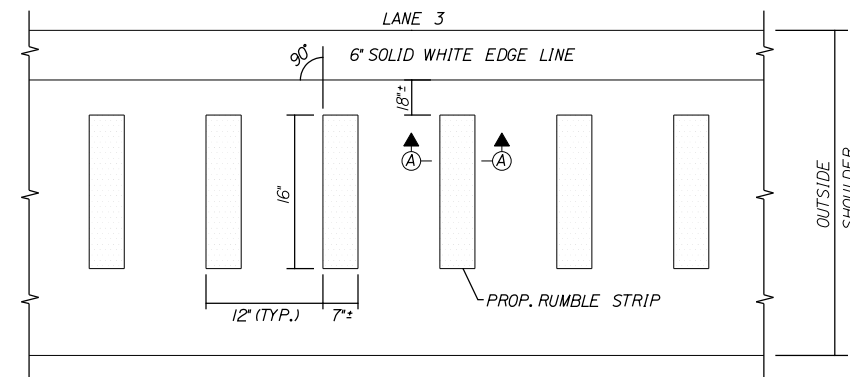
(EXIT RAMP SHOWN, ENTRANCE RAMP SIMILAR)

N.T.S.



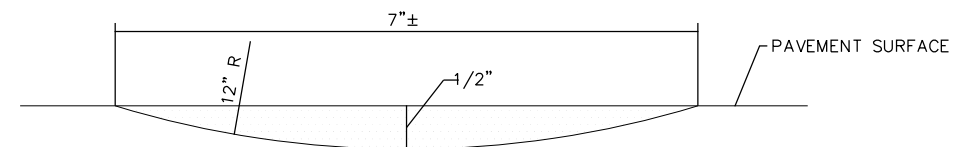
PLAN VIEW - LANE 1

N.T.S.



PLAN VIEW - LANE 3

N.T.S.

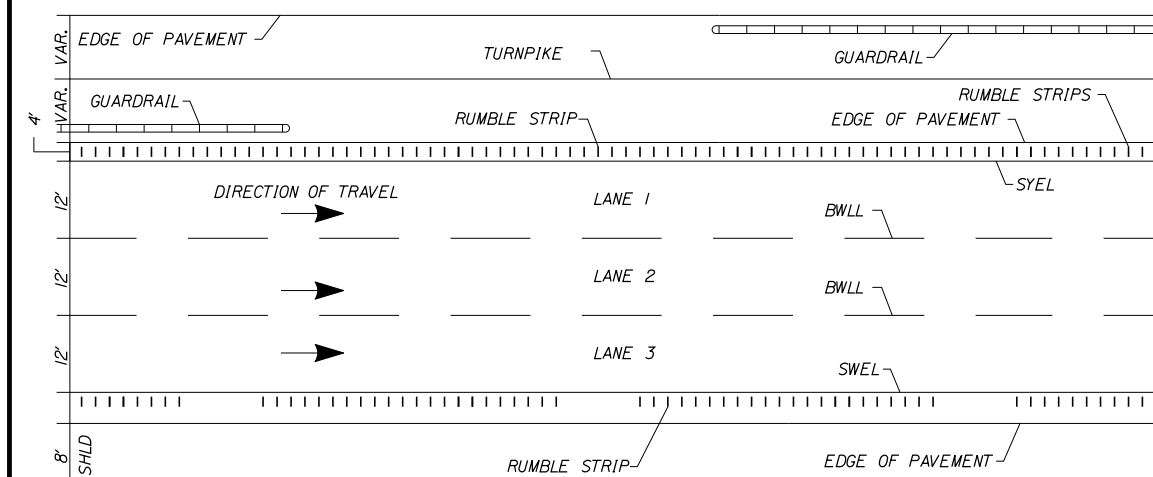


SECTION A-A

N.T.S.

NOTES:

1. INSTALL LANE 3 RUMBLE STRIP WITH A 20' GAP EVERY 100'. (I.E. 80' OF RUMBLE STRIP AND 20' OF NO RUMBLE STRIP; REPEAT...)
2. INSTALL LANE 1 RUMBLE STRIP WITH NO GAPS. SEE RUMBLE STRIP PLACEMENT DETAIL FOR LAYOUT REQUIREMENTS.



LOCATION OF RUMBLE STRIPS

N.T.S.

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

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

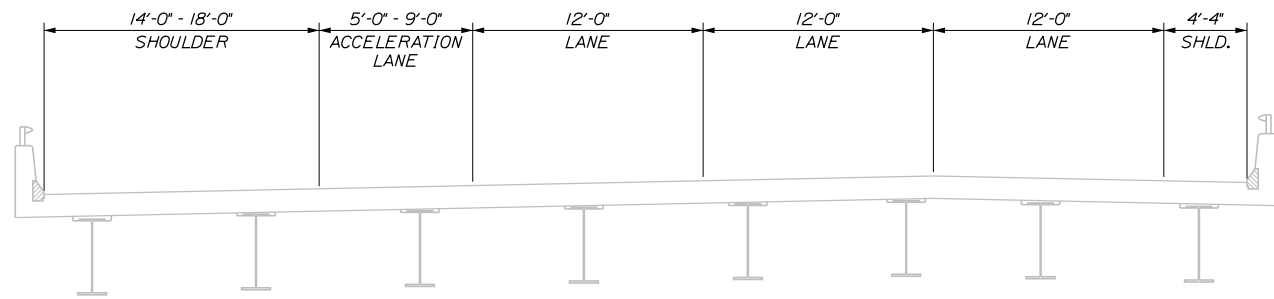
PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
RUMBLE STRIP DETAILS

SHEET NUMBER: DT-09
 25 OF 40

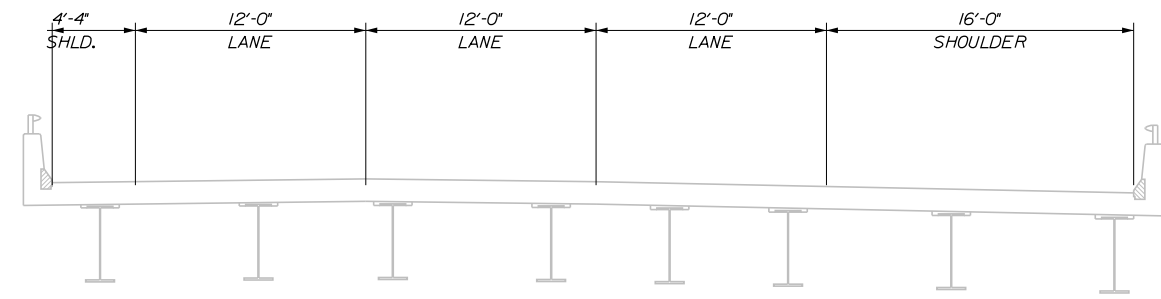
CONTRACT: 2025.01

Date: 1/20/2025

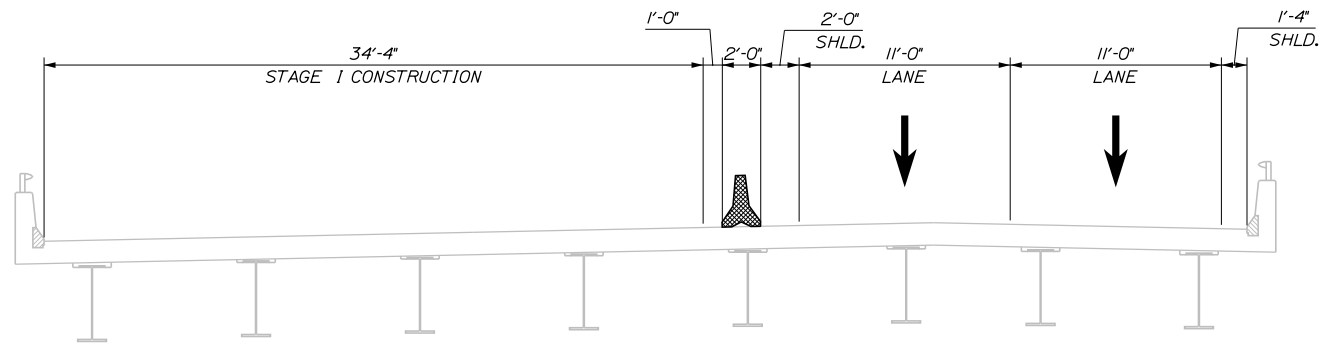
Filename: ...MSTA_MOT_RR_Bridge.dgn



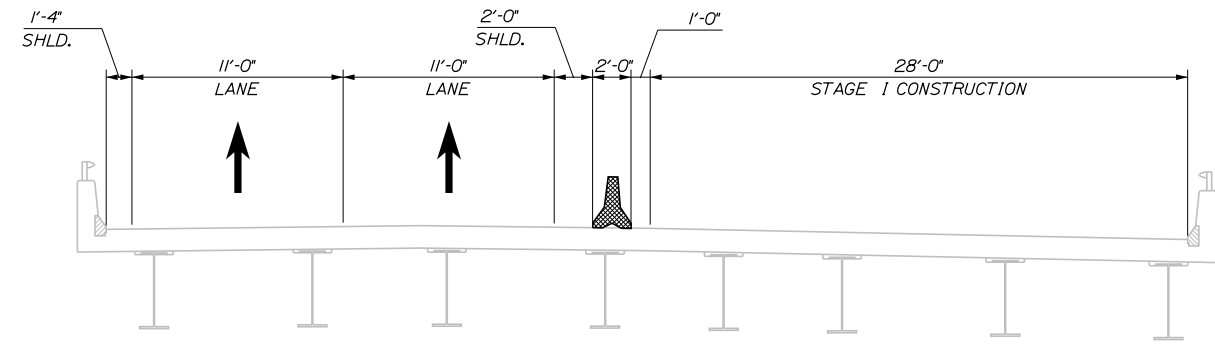
EXISTING SECTION - SB



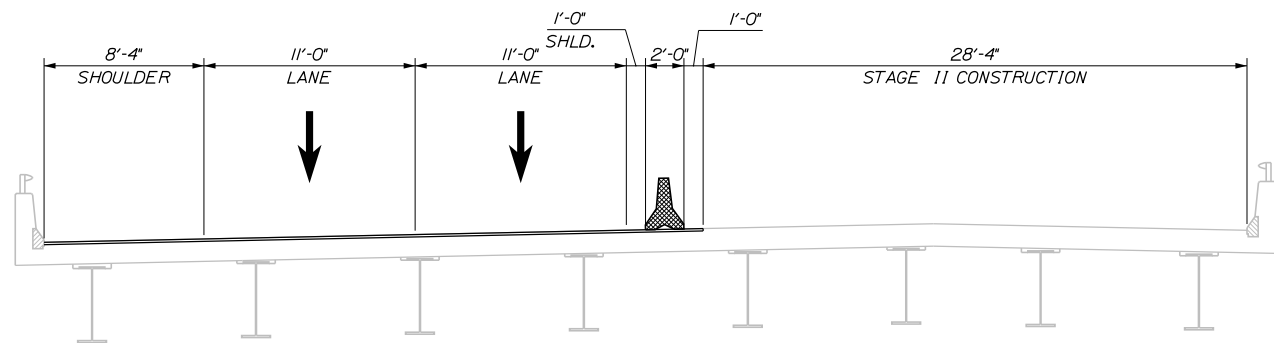
EXISTING SECTION - NB



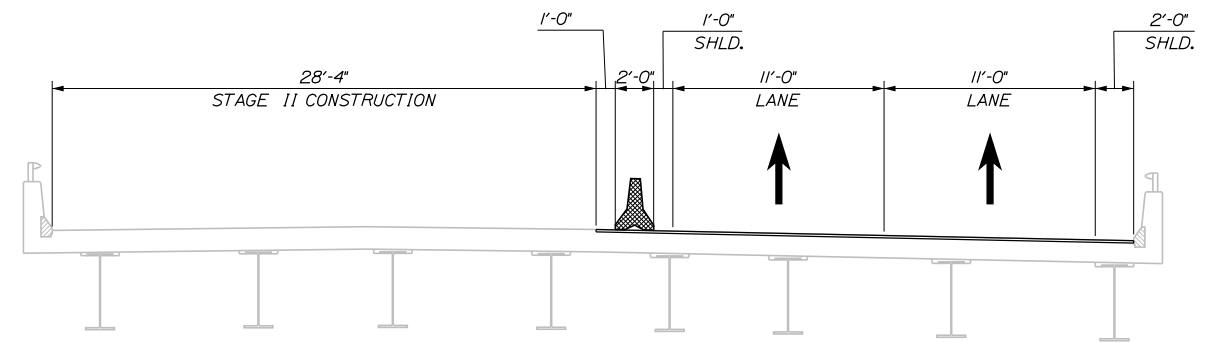
STAGE I - SB



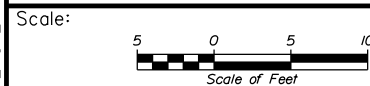
STAGE I - NB



STAGE II - SB



STAGE II - NB



No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

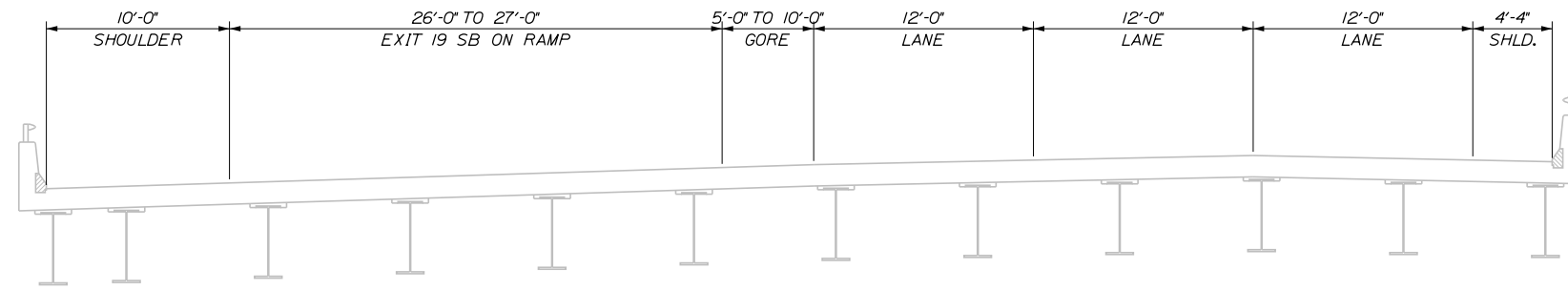
**PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 STAGED CONSTRUCTION PLANS
 B&M RAILROAD OVERPASS**

CONTRACT: 2025.01

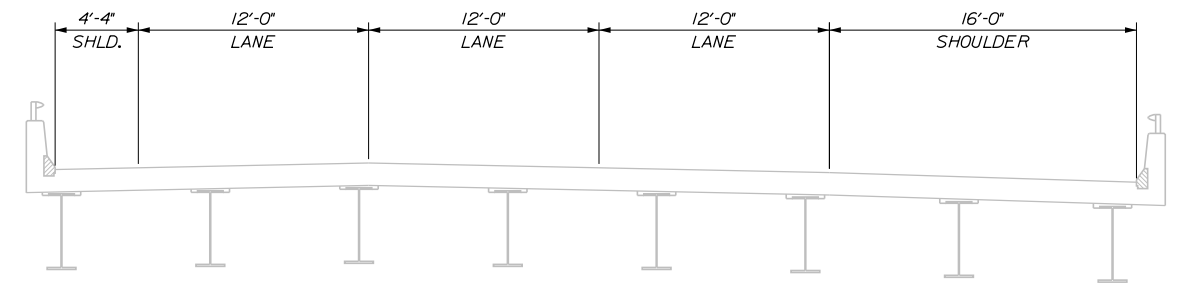
SHEET NUMBER: SC-01
 26 OF 40

Date: 1/20/2025

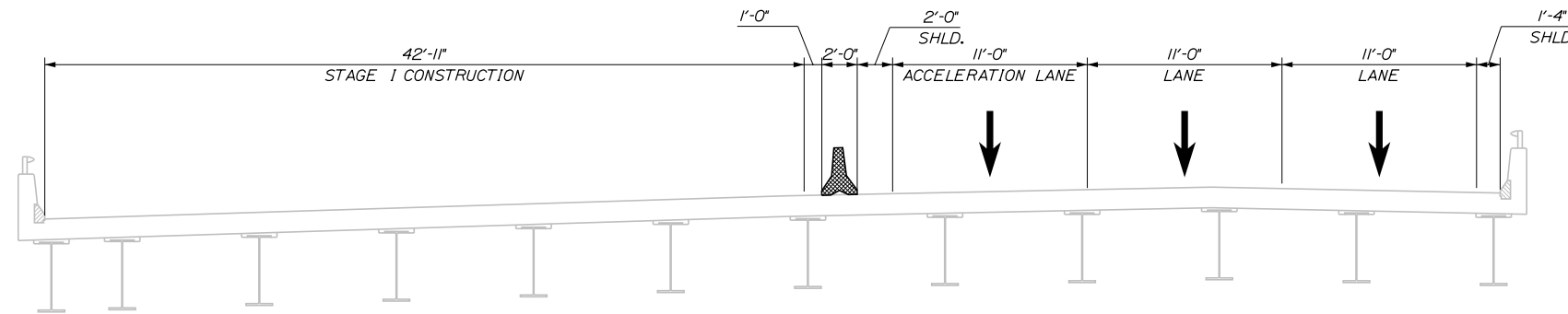
Filename: ...MSTA_MOT_109_Bridge.dgn



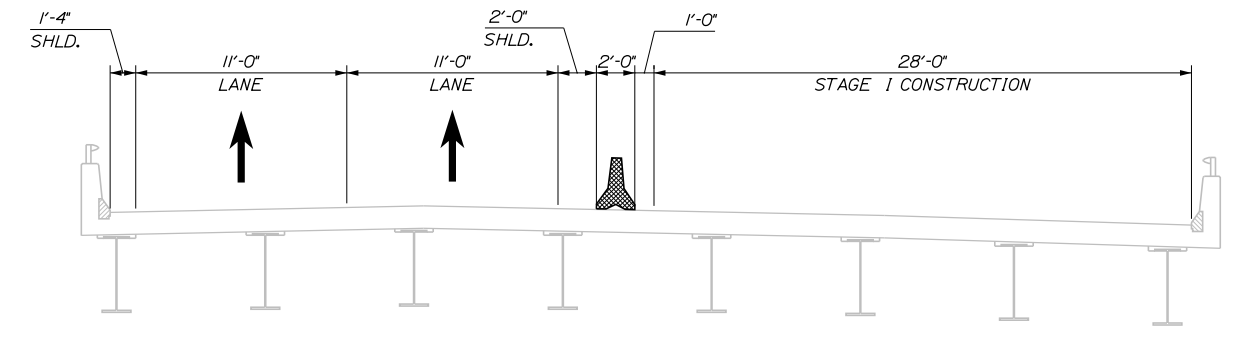
EXISTING SECTION - SB



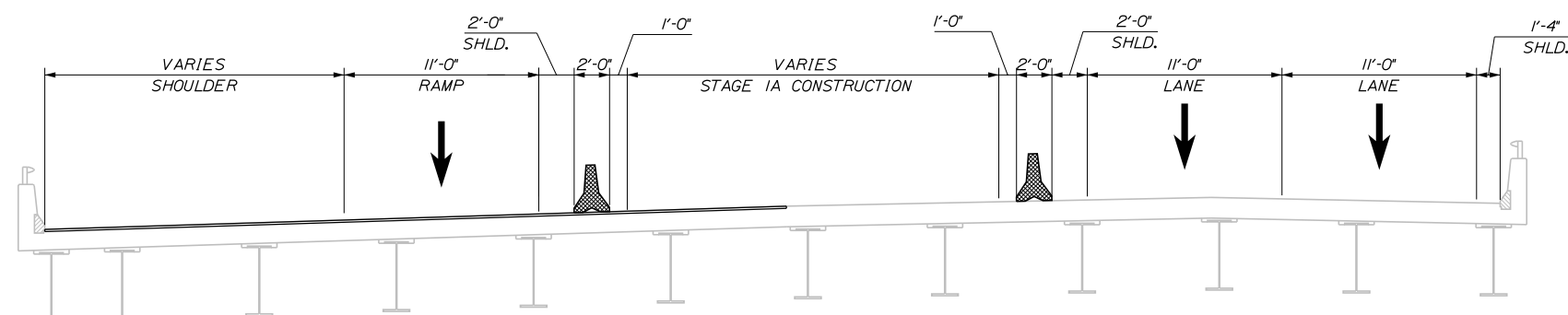
EXISTING SECTION - NB



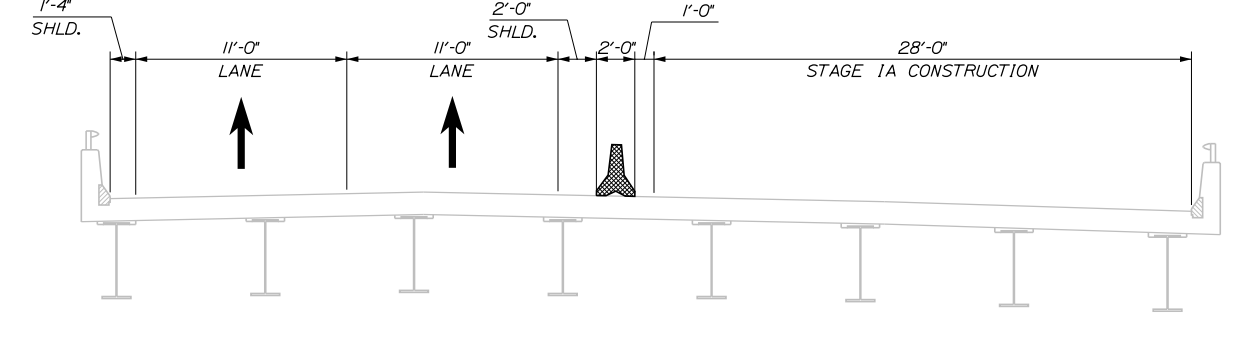
STAGE I - SB



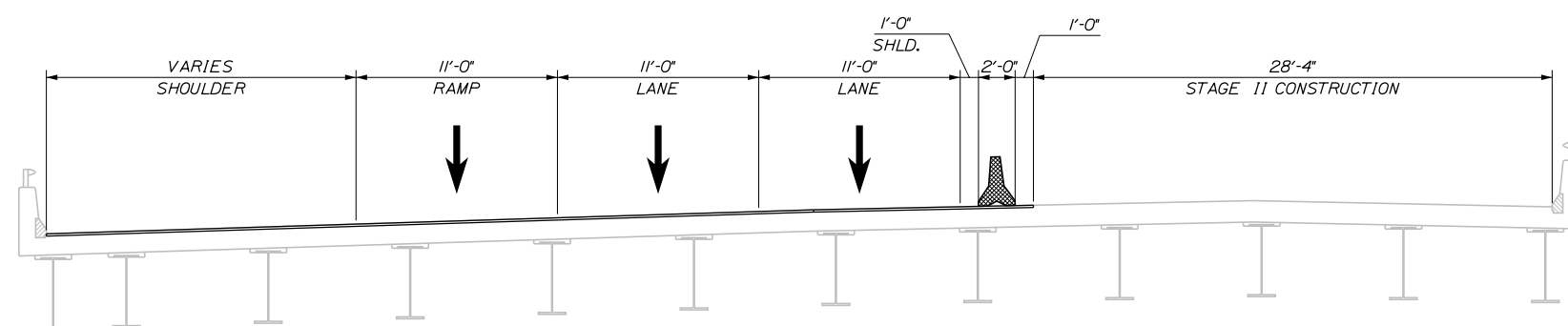
STAGE I - NB



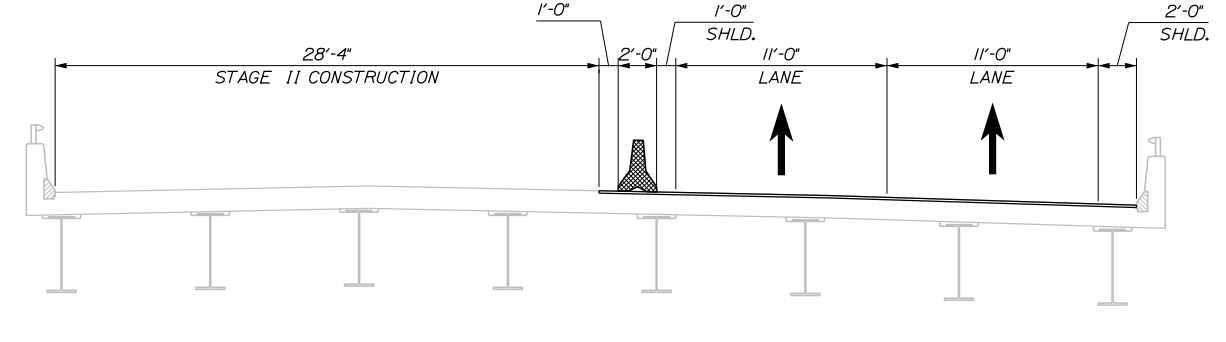
STAGE IA - SB



STAGE IA - NB



STAGE II - SB



STAGE II - NB

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

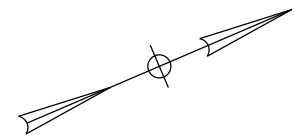
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

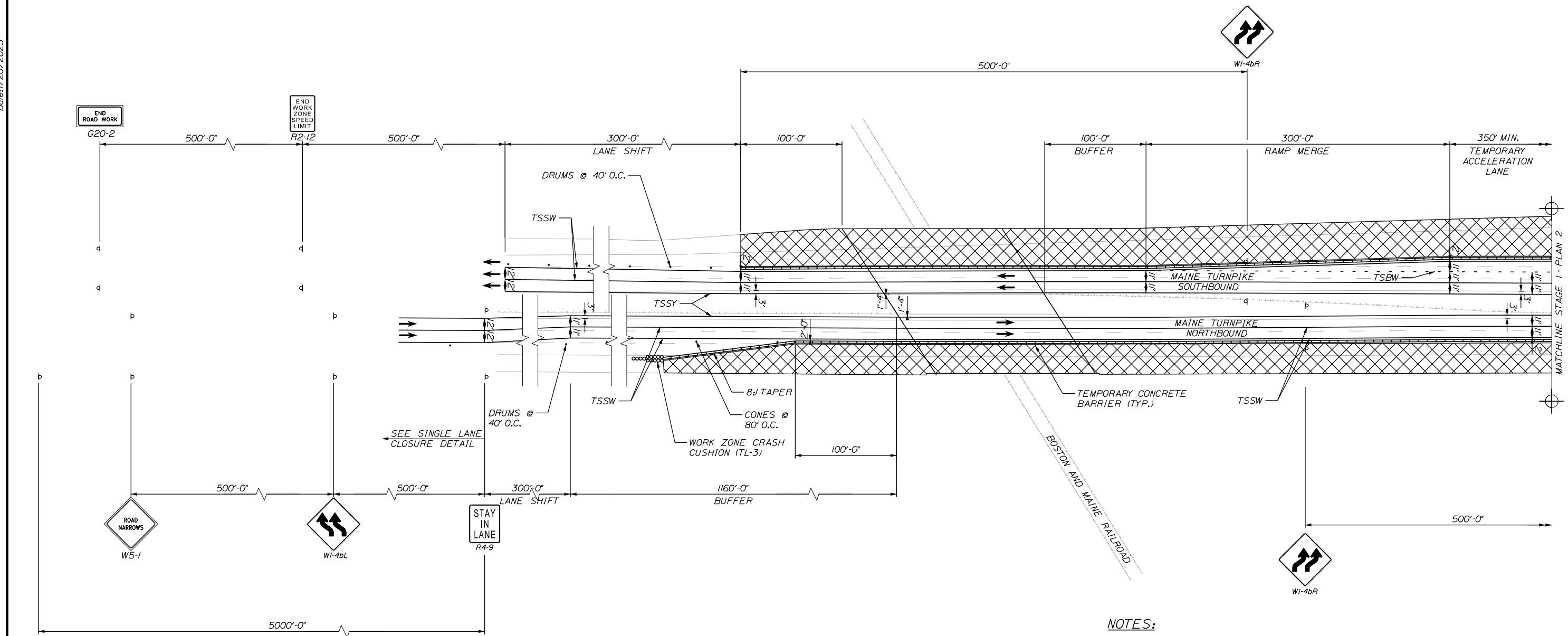
PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 STAGED CONSTRUCTION PLANS
 ROUTE 109 OVERPASS

SHEET NUMBER: SC-02
 27 OF 40

CONTRACT: 2025.01



Date: 1/20/2025



EXIT 19
KEEP RIGHT
CS-44

- NOTES:**
- RUMBLE STRIPS SHALL BE FILLED IN BEFORE SHIFTING TRAFFIC INTO THE ADJACENT SHOULDER.
 - INSTALL ADDITIONAL REFLECTORIZED GUARDRAIL BEAM DELINEATORS IN ACCORDANCE WITH SP 606 PRIOR TO SHIFTING TRAFFIC ADJACENT TO EXISTING GUARDRAIL.

Filename: ...MSTA_MOT_Phase1_Plan_1.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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**

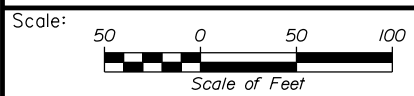
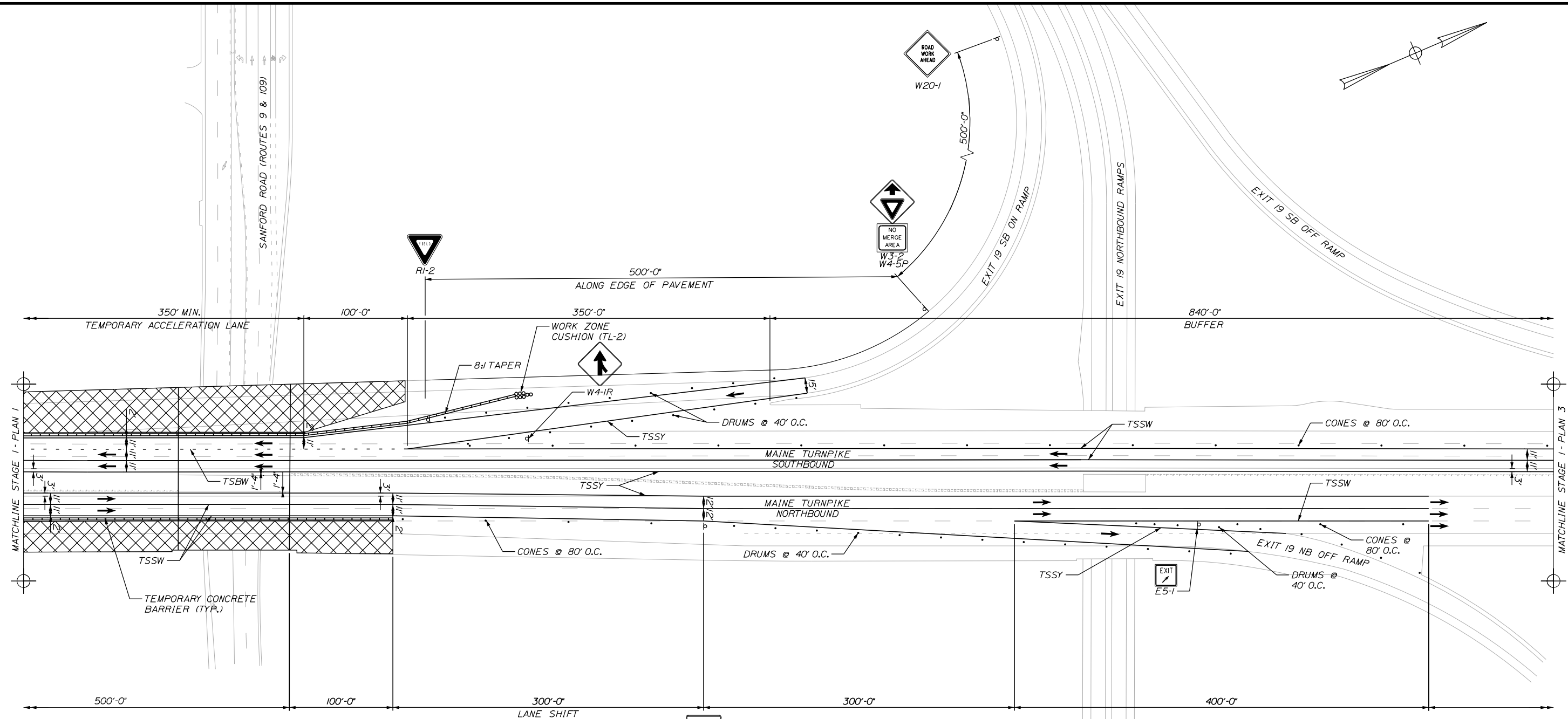
MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
STAGED CONSTRUCTION PLANS
STAGE 1 - PLAN 1

SHEET NUMBER: SC-03
CONTRACT: 2025.01
28 OF 40

Date: 1/20/2025

Filename: ...MSTA_MOT_Phase1_Plan_2.dgn



No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

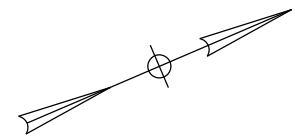
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

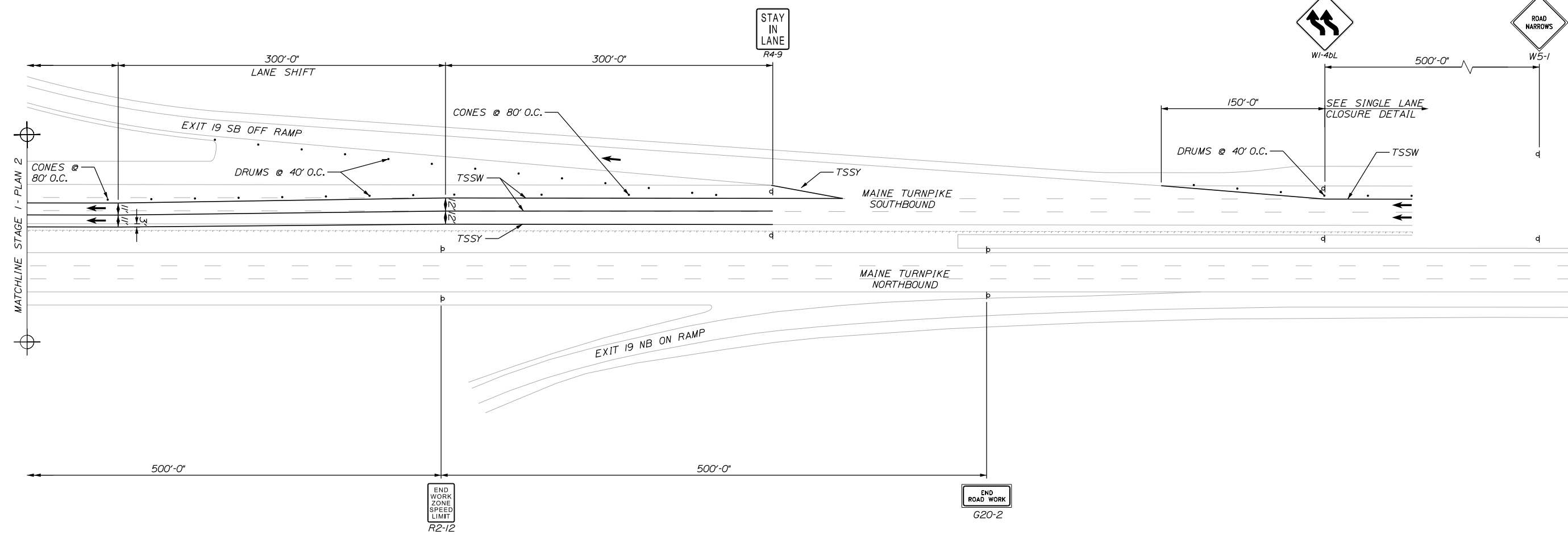
MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
STAGED CONSTRUCTION PLANS
STAGE 1 - PLAN 2

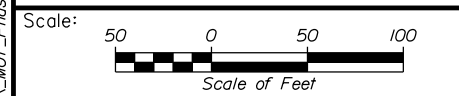
SHEET NUMBER: SC-04
CONTRACT: 2025.01
29 OF 40



Date: 1/20/2025



Filename: ...MSTA_MOT_Phase1_Plan_3.dgn



Designed by:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

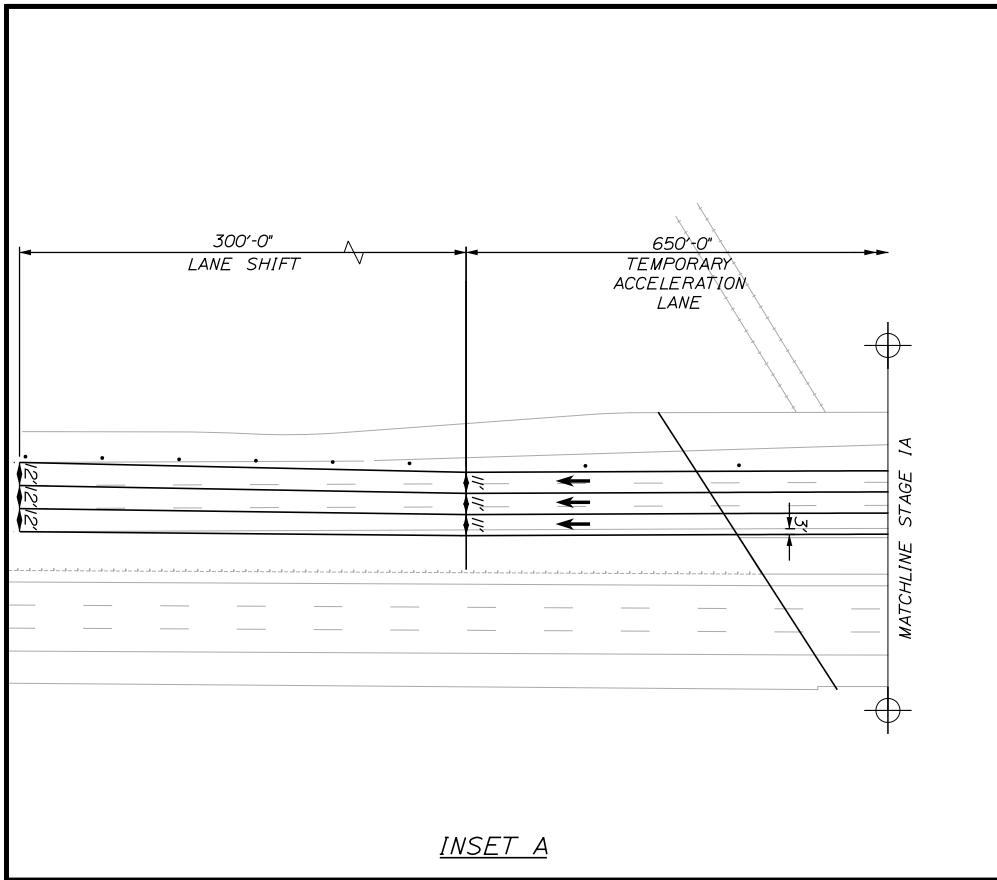
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

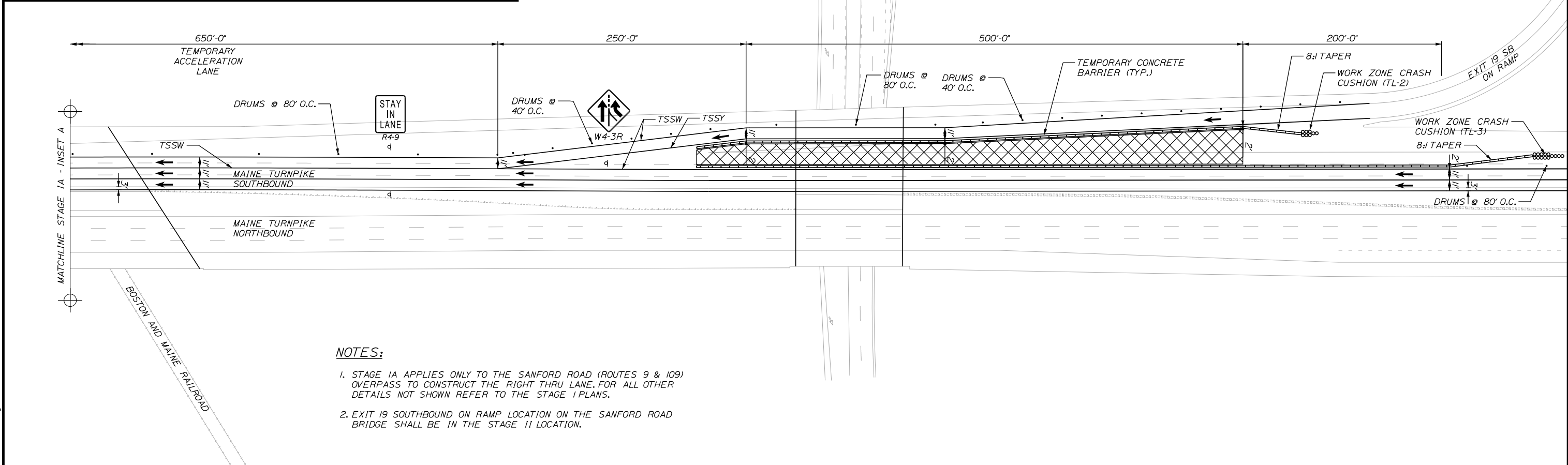
PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 STAGED CONSTRUCTION PLANS
 STAGE 1 - PLAN 3

SHEET NUMBER: SC-05
 CONTRACT: 2025.01
 30 OF 40

Date: 1/20/2025

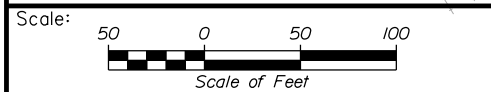


INSET A



NOTES:

1. STAGE 1A APPLIES ONLY TO THE SANFORD ROAD (ROUTES 9 & 109) OVERPASS TO CONSTRUCT THE RIGHT THRU LANE. FOR ALL OTHER DETAILS NOT SHOWN REFER TO THE STAGE I PLANS.
2. EXIT 19 SOUTHBOUND ON RAMP LOCATION ON THE SANFORD ROAD BRIDGE SHALL BE IN THE STAGE II LOCATION.



No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date	By	Date	
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

MAINE TURNPIKE

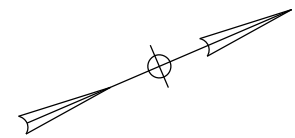
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

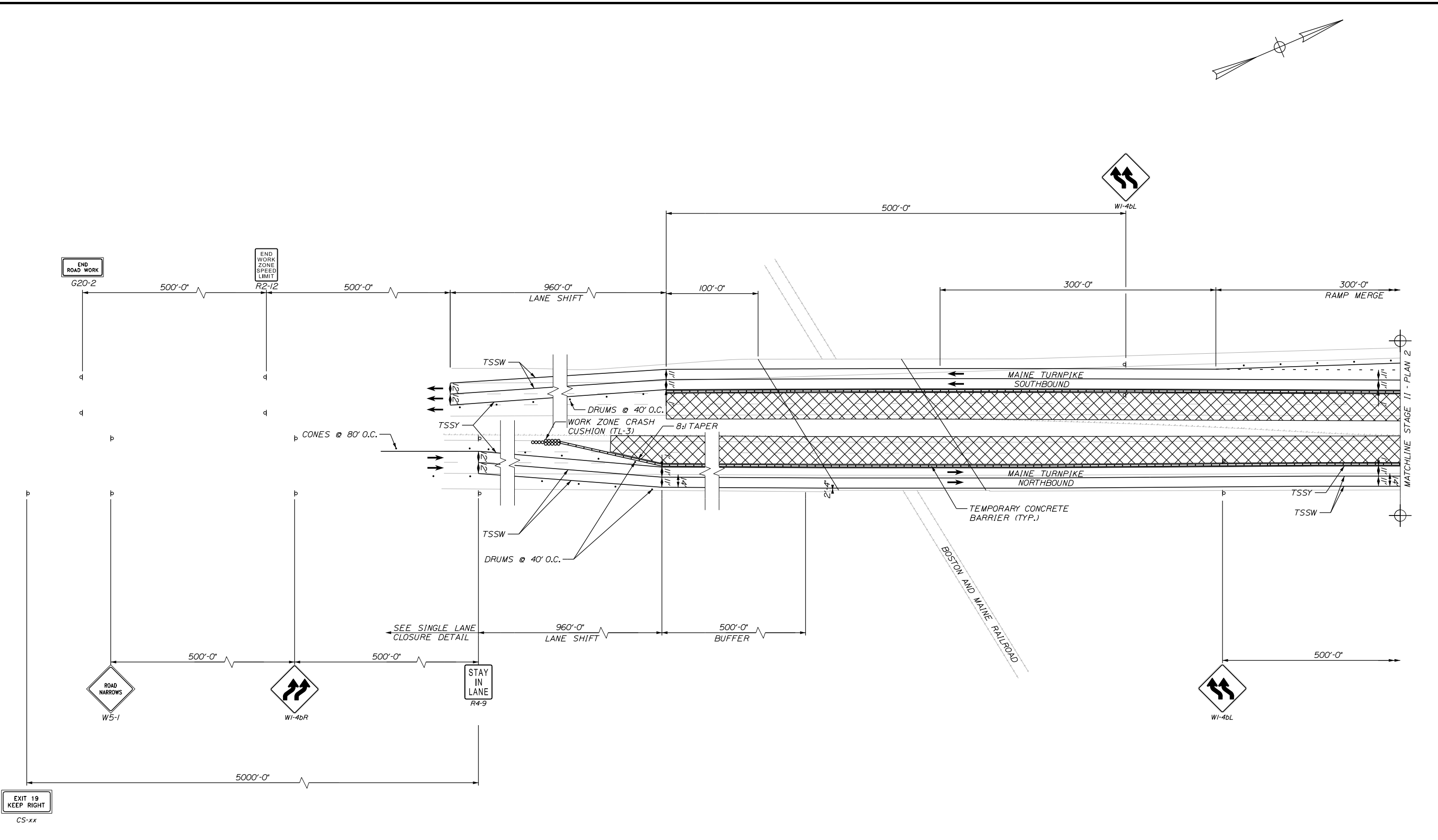
PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 STAGED CONSTRUCTION PLANS
 STAGE 1A - PLAN 1

SHEET NUMBER: SC-06
 CONTRACT: 2025.01
 31 OF 40

Filename: ...MSTA_MOT_Phase1A_Plan_1.dgn



Date: 1/20/2025



Filename: ...MSTA_MOT_Phase2_Plan_1.dgn

EXIT 19
KEEP RIGHT
CS-xx

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

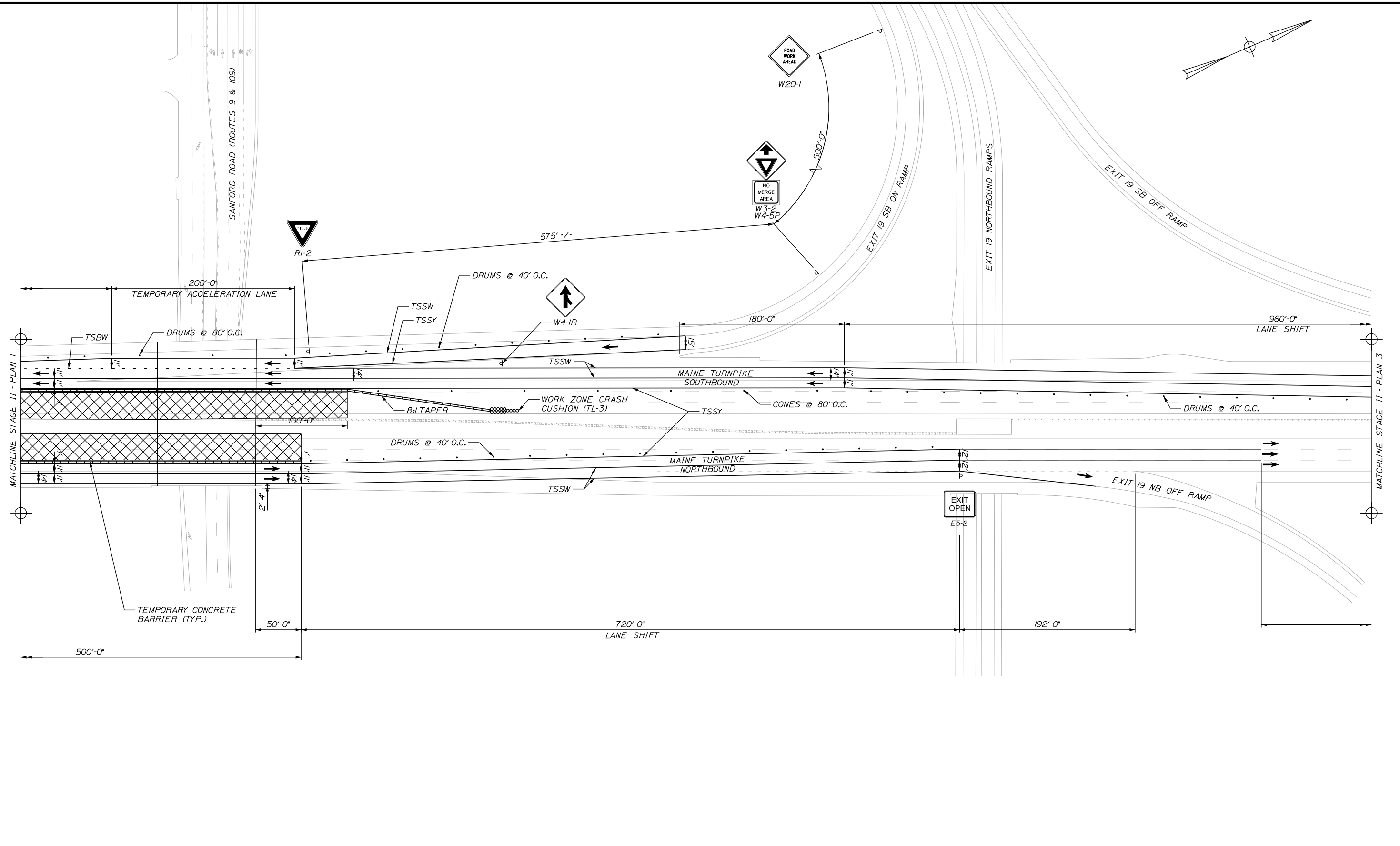
MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
STAGED CONSTRUCTION PLANS
STAGE II - PLAN 1

SHEET NUMBER: SC-07
CONTRACT: 2025.01
32 OF 40

Date: 1/20/2025

Filename: ...MSTA_MOT_Phase2_Plan_2.dgn



Scale: 50 0 50 100
Scale of Feet

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date	Checked	By	Date
Designed	JRH	1\25		JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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

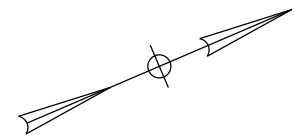
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

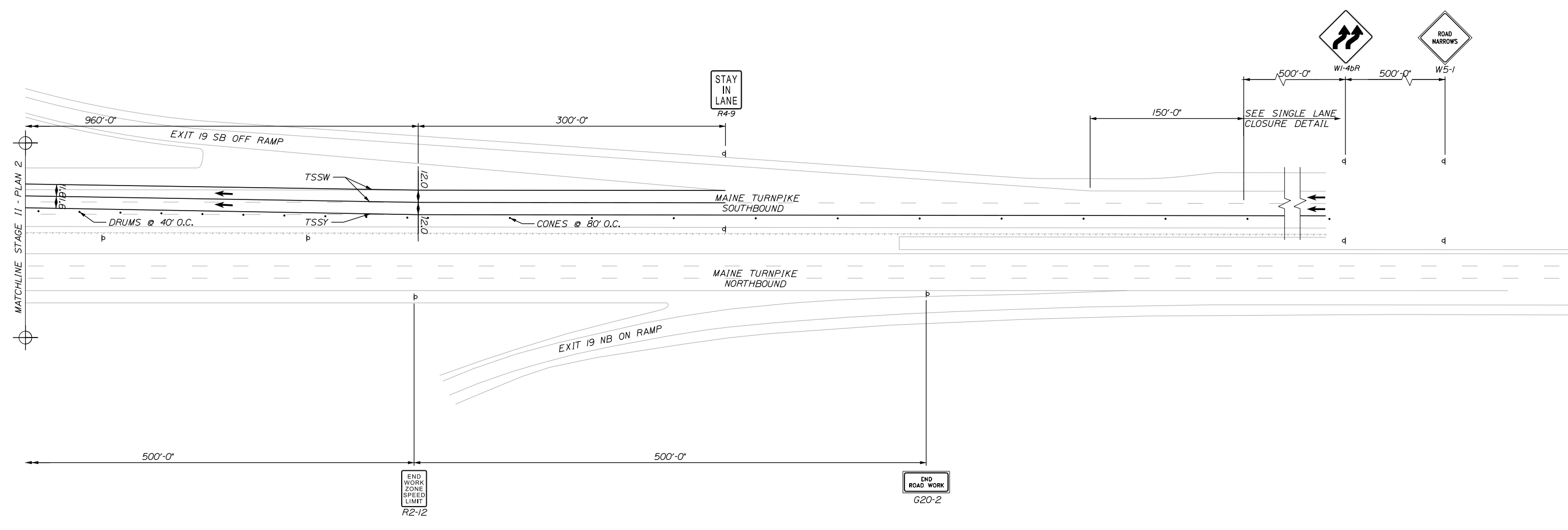
MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
STAGED CONSTRUCTION PLANS
STAGE II - PLAN 2

SHEET NUMBER: SC-08
CONTRACT: 2025.01
33 OF 40



Date: 1/20/2025



Filename: ...MSTA_MOT_Phase2_Plan_3.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	JRH	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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**

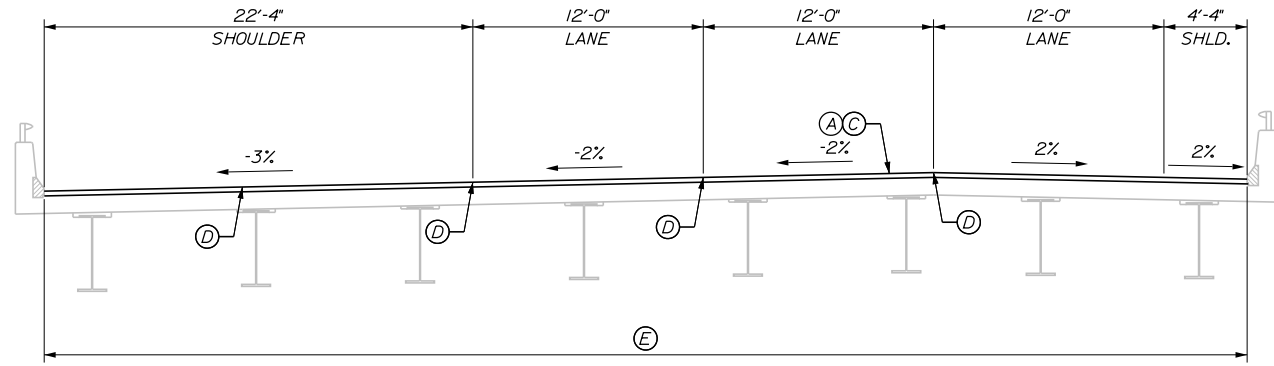
MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 STAGED CONSTRUCTION PLANS
 STAGE II - PLAN 3

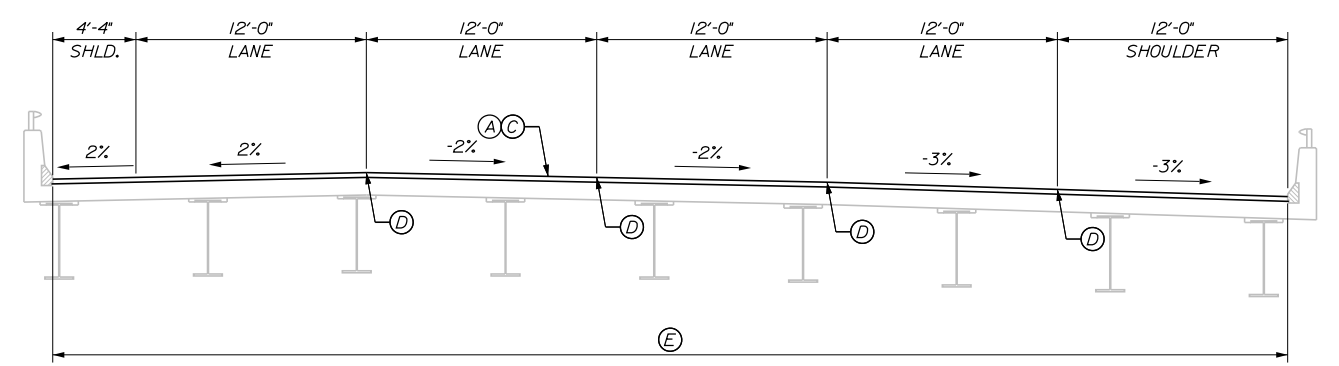
SHEET NUMBER: SC-09
 CONTRACT: 2025.01
 34 OF 40

Date: 1/20/2025

Filename: ...HIGHWAY\MSTA\...Typ_Bridge.dgn

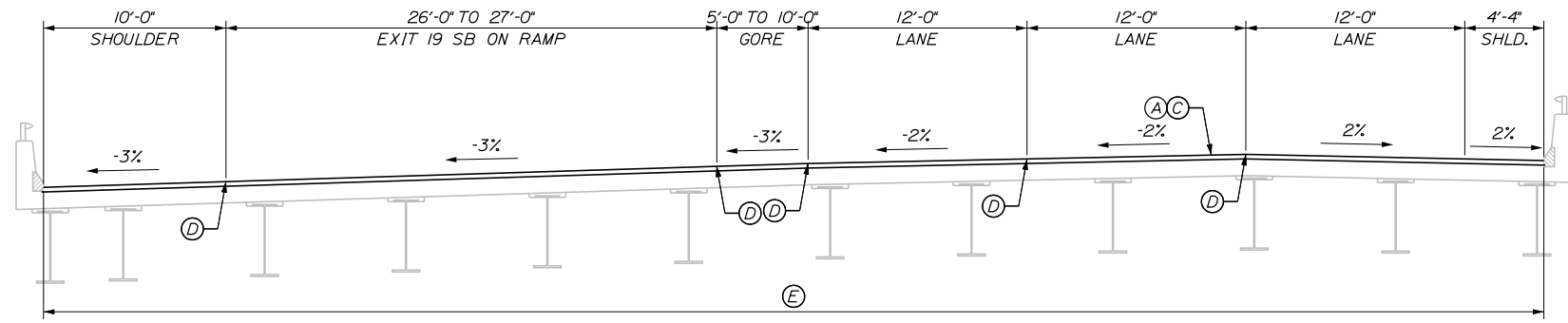


SOUTHBOUND

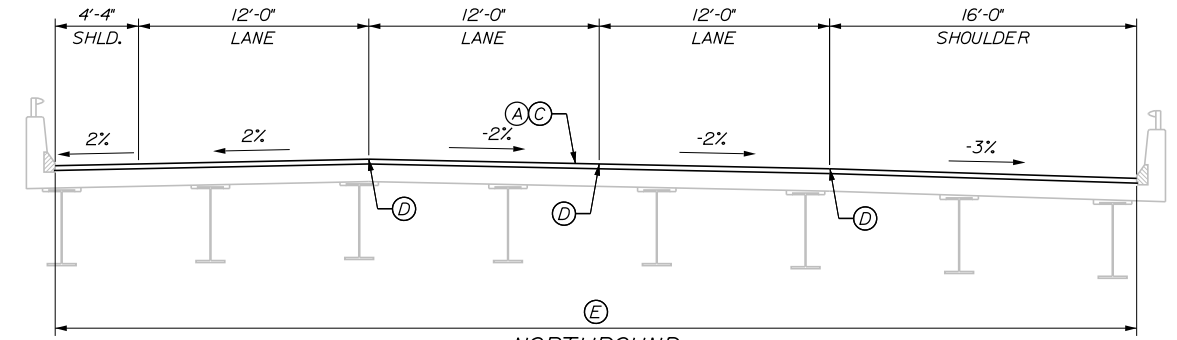


NORTHBOUND

WELLS INTERCHANGE OVERPASS MILL & OVERLAY

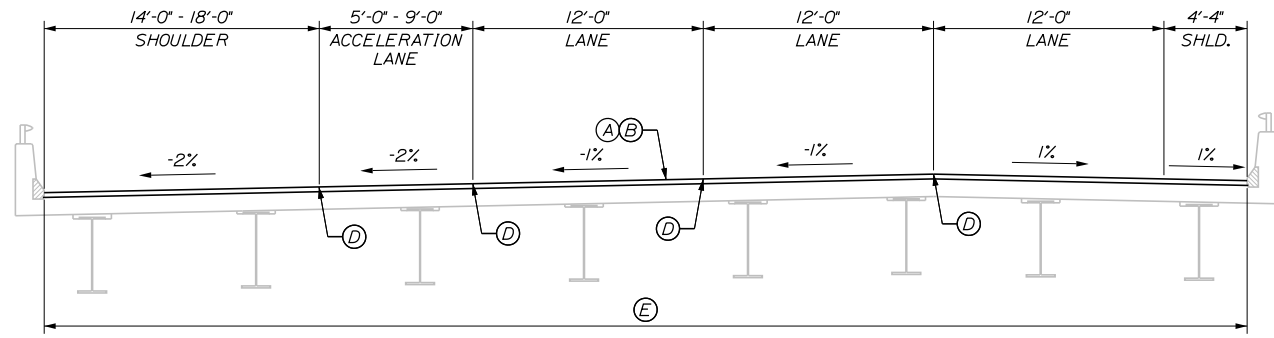


SOUTHBOUND

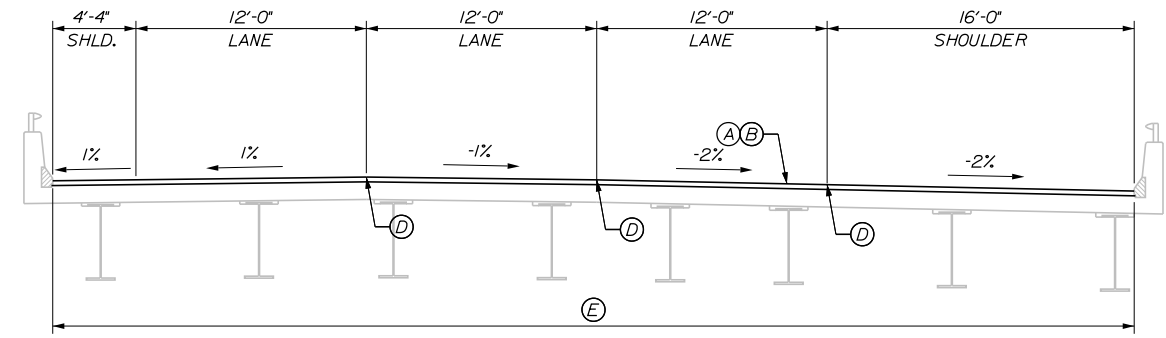


NORTHBOUND

SANFORD ROAD (ROUTE 109) OVERPASS MILL & OVERLAY



SOUTHBOUND



NORTHBOUND

B&M RAILROAD BRIDGE MILL & OVERLAY

BRIDGE 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) = MILLING DEPTH VARIES TO ACHIEVE A 1/2" DEPTH AT THE EDGES OF LANE BEING MILLED.
- (D) = NOTCHED WEDGE JOINT
- (E) = LIMITS OF MILL AND OVERLAY

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. PAYMENT FOR THE HOT RUBBERIZED ASPHALT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.
2. BITUMINOUS TACK COAT IS REQUIRED BETWEEN EXISTING PAVEMENT AND PROPOSED HMA AND BETWEEN ANY LIFTS OF PROPOSED PAVEMENT OR SHIM.
3. THE CONTRACTOR SHALL STRING EACH BRIDGE 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.
4. THE NOTCHED WEDGE SHALL BE DOUBLE TACKED.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	KBJ	1\25	Checked	JRH	1\25
Drawn	KBJ	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0

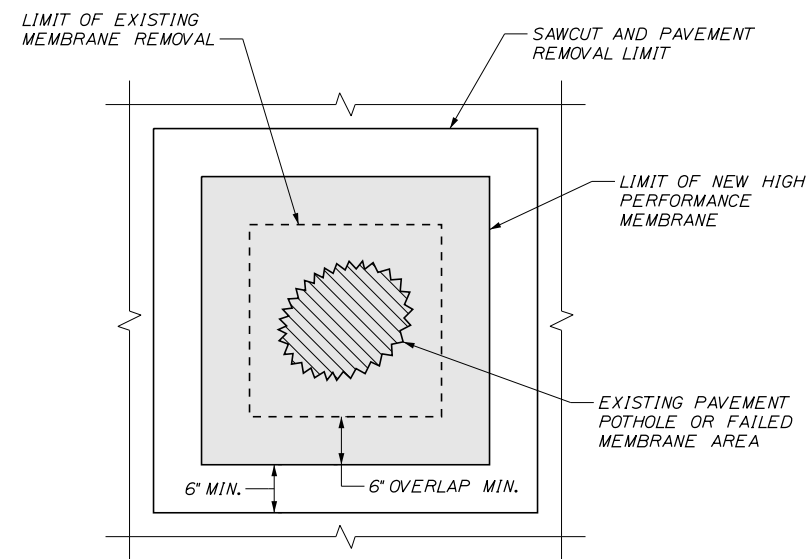
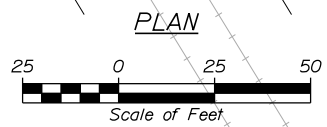
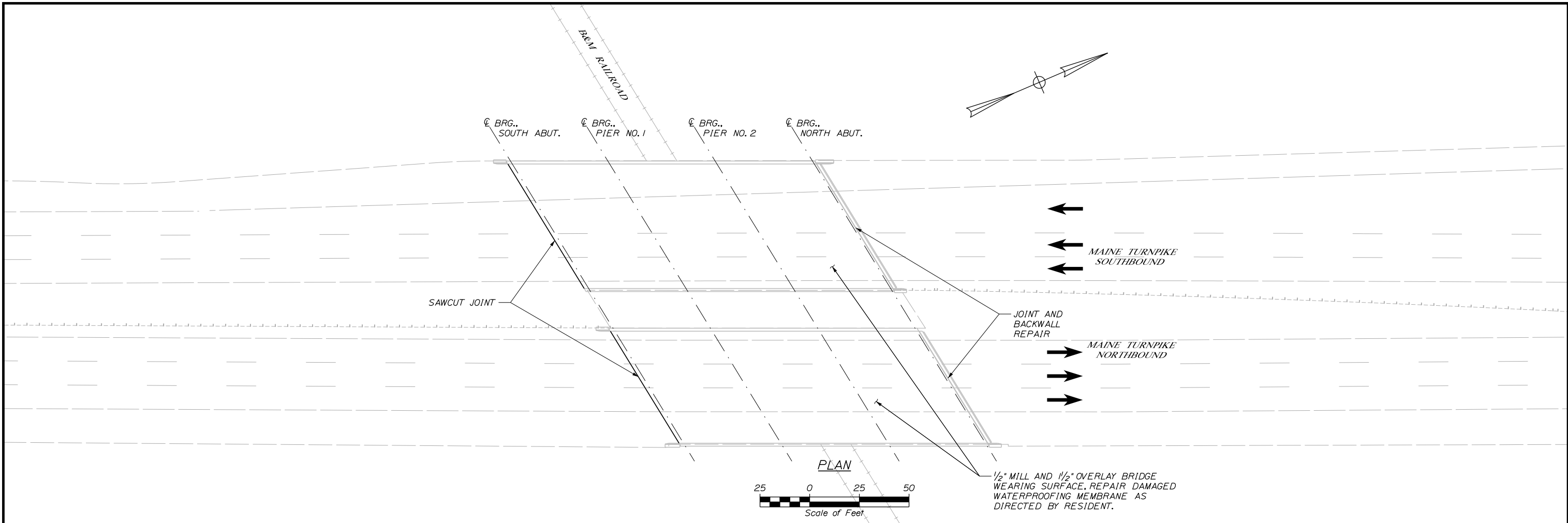
BRIDGE TYPICAL SECTIONS

SHEET NUMBER: BR-01

CONTRACT: 2025.01

35 OF 40

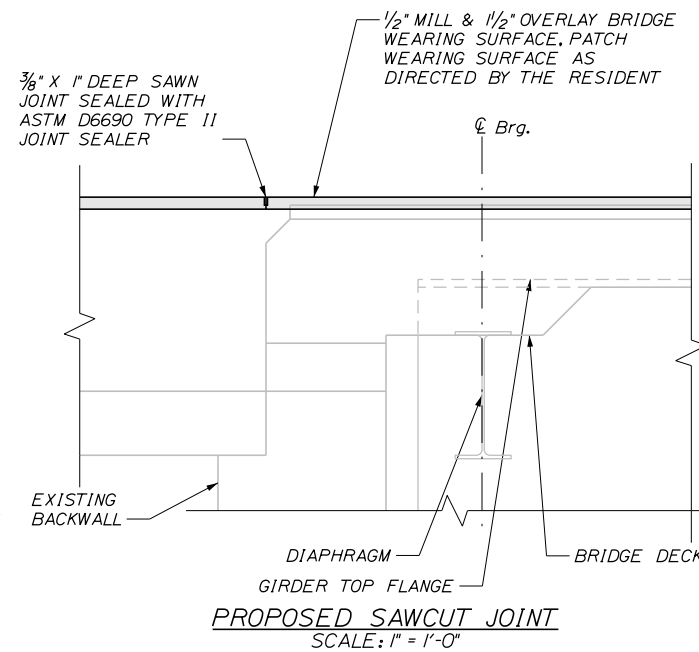
Date: 1/20/2025



HIGH PERFORMANCE WATERPROOFING MEMBRANE - LOCALIZED REPAIR DETAIL
SCALE: 1" = 1'-0"

GENERAL REPAIR PROCEDURE:

1. IDENTIFY LIMIT OF FAILED MEMBRANE BASED ON PAVEMENT CONDITION OR EXPOSED MEMBRANE/DECK SURFACE AREA.
2. REMOVE PAVEMENT SURROUNDING FAILED MEMBRANE LOCATION, SAWCUT PAVEMENT TO FACILITATE PAVEMENT REMOVAL.
-PAVEMENT REMOVAL SHALL AVOID DAMAGING SURROUNDING SOUND MEMBRANE.
-IF DAMAGE OCCURS THE MEMBRANE SHALL BE REPAIRED WITH HOT RUBBER SEALANT AFTER APPLICATION OF NEW MEMBRANE.
-ENSURE THAT AT A MINIMUM 6-INCH PERIMETER OF SOUND MEMBRANE IS EXPOSED AROUND THE REPAIR AREA.
3. REMOVE THE DAMAGED/FAILED MEMBRANE, ENSURING THAT THE REMAINING MEMBRANE IS FULLY BONDED TO THE CONCRETE DECK AND MEETS THE REQUIRED MATERIAL THICKNESS.
-THOROUGHLY CLEAN THE EXPOSED BRIDGE DECK IN THE AREA OF MEMBRANE REMOVAL.
4. PRIME BRIDGE DECK AND APPLY TORCH APPLIED HIGH PERFORMANCE WATERPROOFING MEMBRANE THAT OVERLAPS WITH EXISTING SOUND MEMBRANE BY A MINIMUM OF 6 INCHES.
5. ALL WORK REQUIRED FOR MEMBRANE REPAIR SHALL BE PAID UNDER ITEM 508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE.



PROPOSED SAWCUT JOINT
SCALE: 1" = 1'-0"

NOTES:

1. ELASTOMERIC CONCRETE HEADER SHALL BE PAID UNDER ITEM 518.865 ELASTOMERIC CONCRETE.
2. EXISTING REBAR IN ABUTMENT BACKWALL SHALL BE CLEANED AND STRAIGHTENED PRIOR TO PLACING NEW CONCRETE.
3. SAWCUT 1" DEEP ALONG LIMITS OF CONCRETE REMOVAL.
4. CHIP CONCRETE AS SPECIFIED IN SUPPLEMENTAL SPECIFICATION 518. IF THE REMOVAL LIMITS CHANGE DURING THE DEMOLITION PROCESS, THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE REMOVALS.
5. PROTECT THE TOP OF THE EXPANSION JOINT DURING THE PLACEMENT OF BITUMINOUS PAVEMENT.
6. IF THE REPAIR DEPTH IS LESS THAN 6 INCHES FROM THE TOP OF THE PROPOSED HEADER, NEW ELASTOMERIC CONCRETE SHALL BE PLACED PER SPECIAL PROVISION 518. FOR DEPTHS GREATER THAN 6 INCHES, AAA MODIFIED CONCRETE WITH 3/8" AGGREGATE MAY BE USED FOR BOTH THE REPAIR AND HEADER, AS DIRECTED BY THE RESIDENT AND IN ACCORDANCE WITH SPECIAL PROVISION 518.
7. PAYMENT FOR SAWN JOINT WILL BE MADE UNDER ITEM 419.30 SAWING BITUMINOUS PAVEMENT. PAYMENT FOR ASTM D6690 TYPE II JOINT SEALANT WILL BE INCIDENTAL.
8. CONTRACTOR SHALL MARK JOINT LOCATION ON THE CURB IN LOCATION OF PROPOSED SAWCUT FOR APPROVAL BY RESIDENT PRIOR TO CUTTING.

Filename: ...MSTA_Details_B&M_RR1.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	LSF	1\25	Checked	LSF	1\25
Drawn	KLW	1\25	In Charge of	JRH	1\25

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



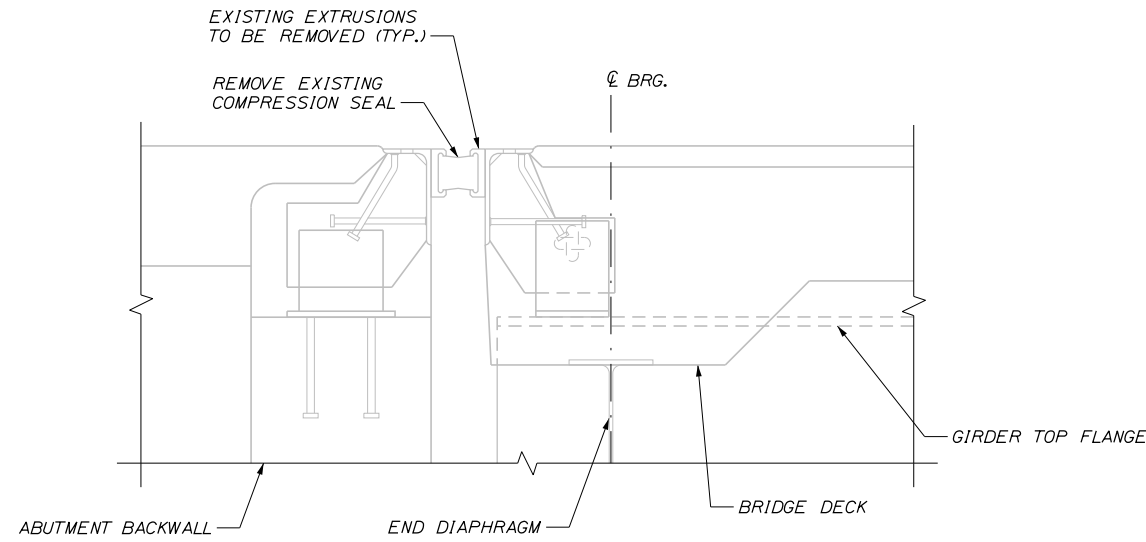
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

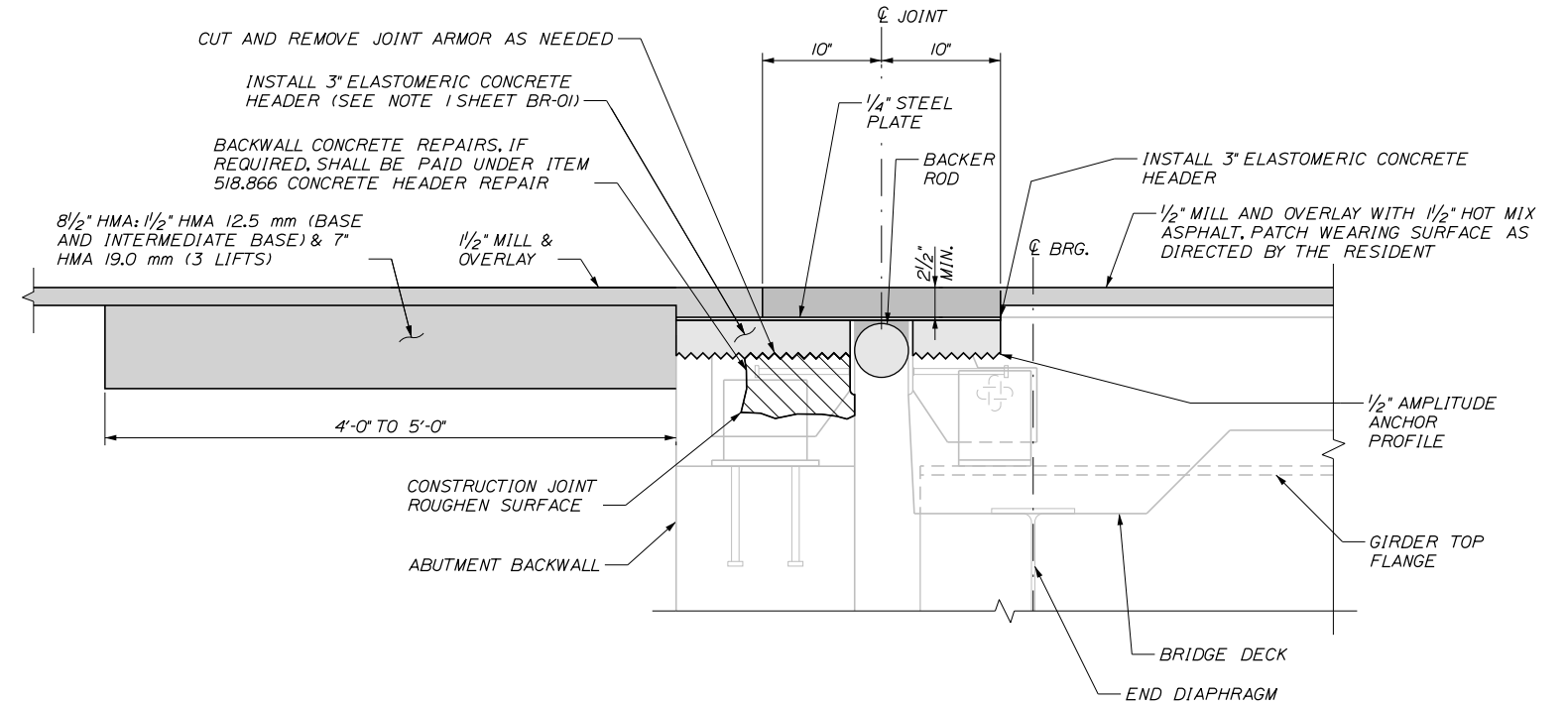
PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
B&M RAILROAD
NB/SB DETAILS

SHEET NUMBER: BR-02
CONTRACT: 2025.01
9 OF 40

Date: 1/20/2025

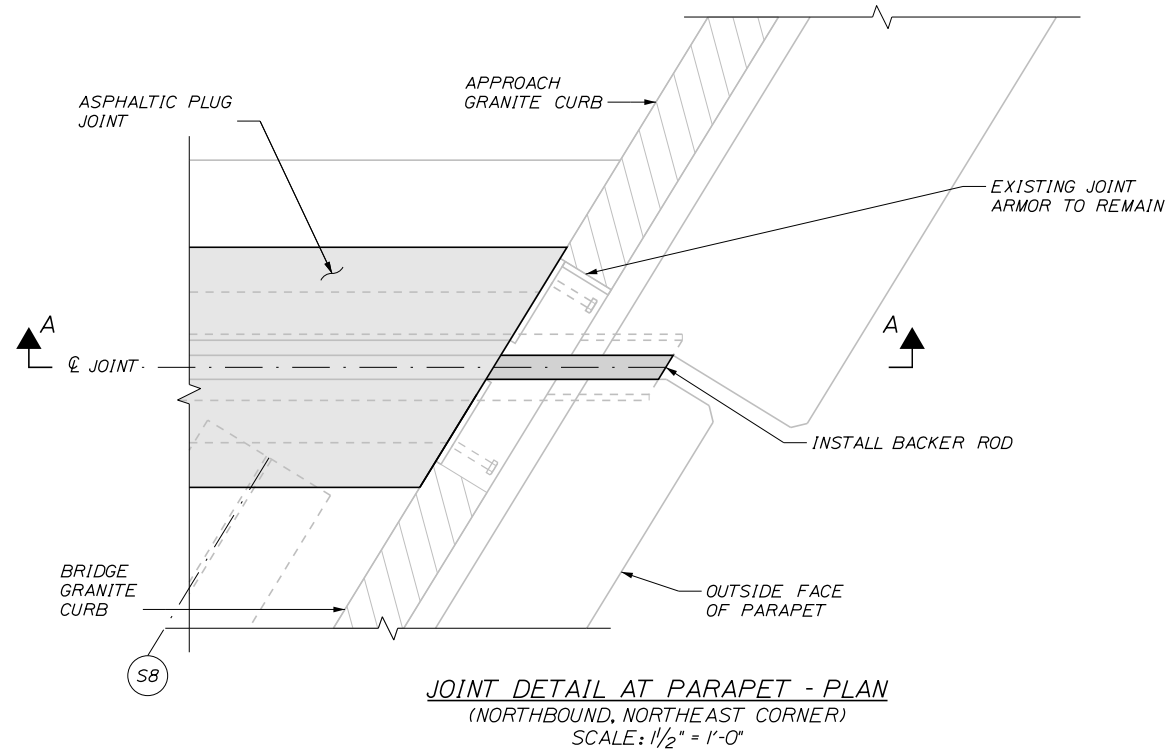


EXISTING EXPANSION JOINT SECTION
SCALE: 1/2" = 1'-0"

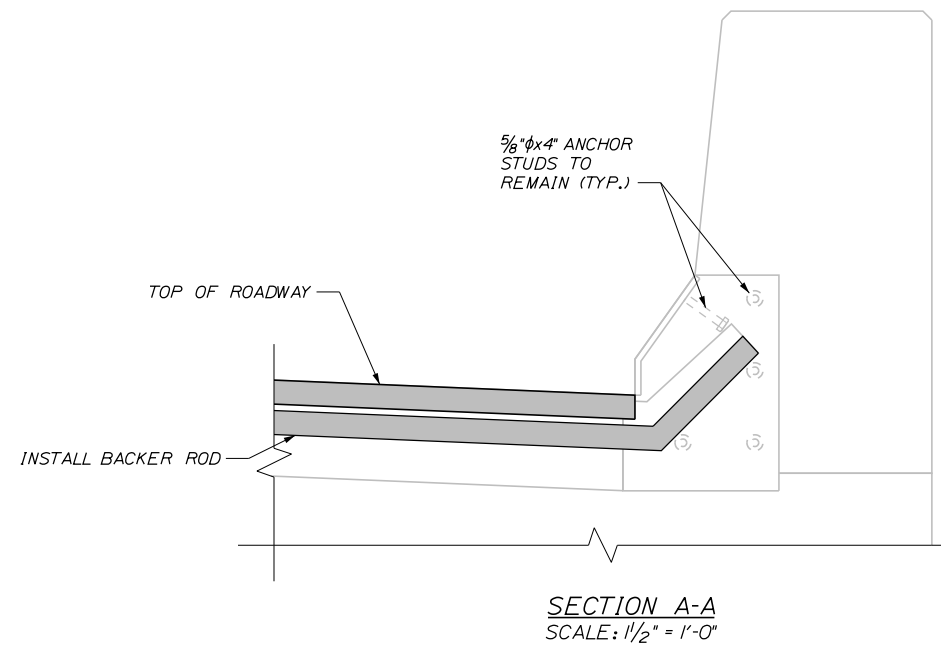


PROPOSED EXPANSION JOINT SECTION
SCALE: 1/2" = 1'-0"

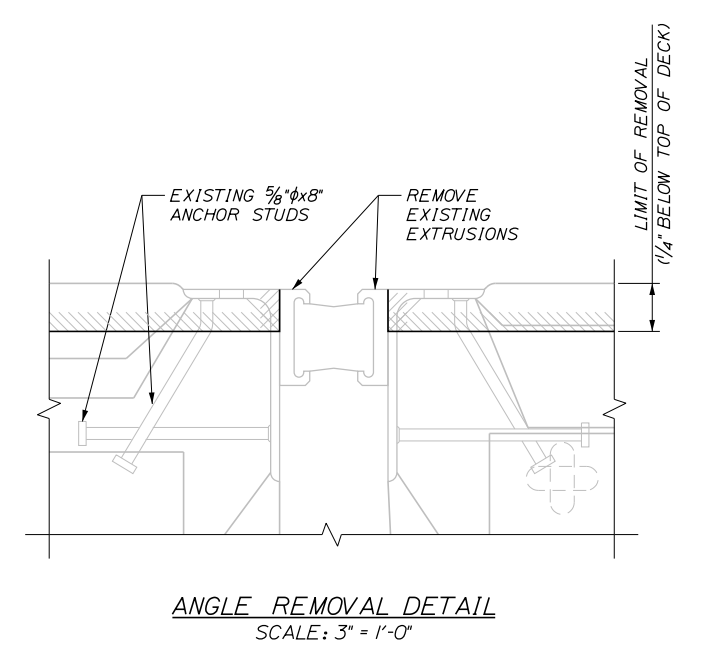
**BRIDGE JOINT MODIFICATIONS
(NORTH ABUTMENT)**



JOINT DETAIL AT PARAPET - PLAN
(NORTHBOUND, NORTHEAST CORNER)
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



ANGLE REMOVAL DETAIL
SCALE: 3" = 1'-0"

Filename: ...MSTA_Details_BR2.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE					
	By	Date		By	Date
Designed	LSF	1\25	Checked	LSF	1\25
Drawn	KLW	1\25	In Charge of	JRH	1\25

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**

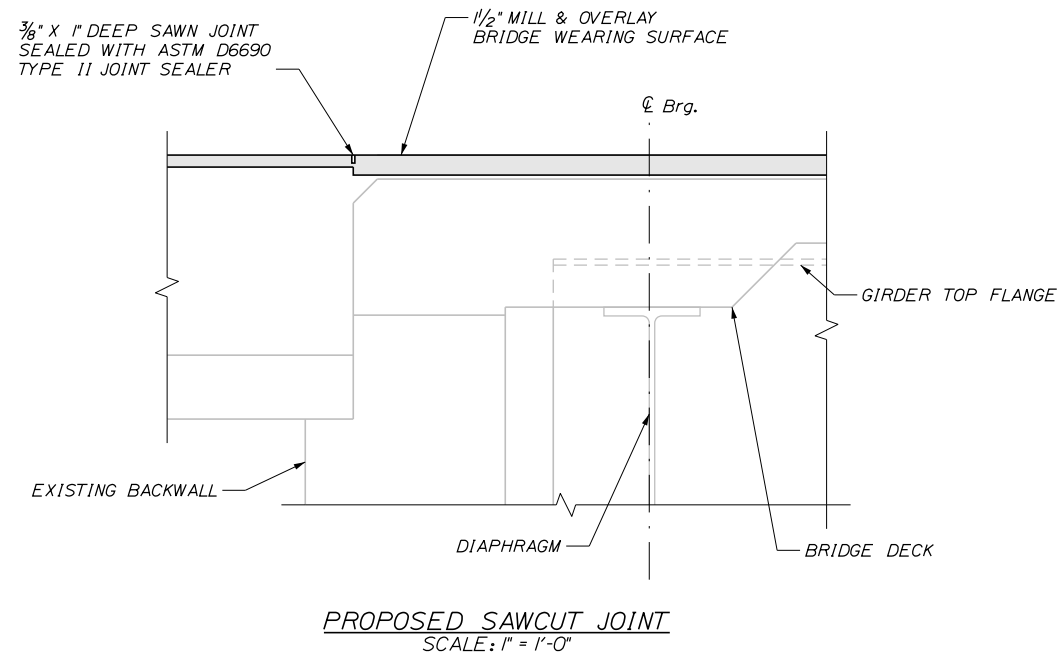
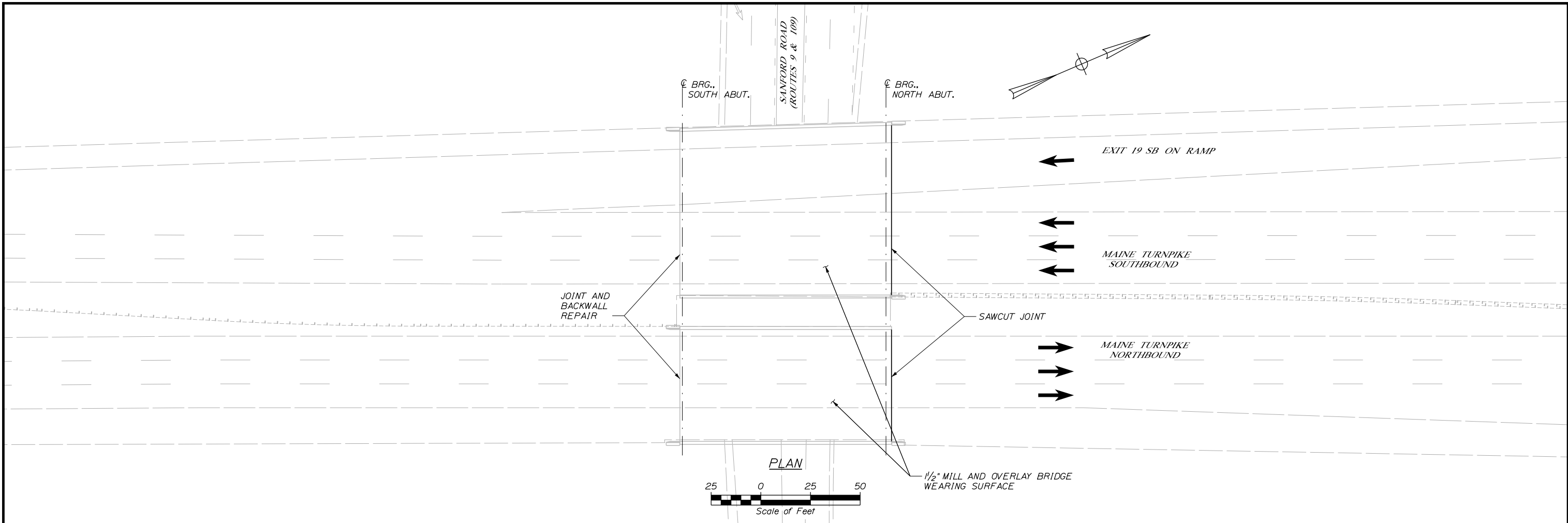
MTA PROJECT MANAGER: KRISTIVAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
B&M RAILROAD
NB/SB DETAILS

SHEET NUMBER: BR-03
CONTRACT: 2025.01
37 OF 40

Date: 1/20/2025

Filename: ...MSTA_Details_Sanford_Rd.dgn




NOTES:

1. ELASTOMERIC CONCRETE HEADER SHALL BE PAID UNDER ITEM 518.865 ELASTOMERIC CONCRETE.
2. EXISTING REBAR IN ABUTMENT BACKWALL SHALL BE CLEANED AND STRAIGHTENED PRIOR TO PLACING NEW CONCRETE.
3. SAWCUT 1" DEEP ALONG LIMITS OF CONCRETE REMOVAL.
4. CHIP CONCRETE AS SPECIFIED IN SUPPLEMENTAL SPECIFICATION 518. IF THE REMOVAL LIMITS CHANGE DURING THE DEMOLITION PROCESS, THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE REMOVALS.
5. PROTECT THE TOP OF THE EXPANSION JOINT DURING THE PLACEMENT OF BITUMINOUS PAVEMENT.
6. IF THE REPAIR DEPTH IS LESS THAN 6 INCHES FROM THE TOP OF THE PROPOSED HEADER, NEW ELASTOMERIC CONCRETE SHALL BE PLACED PER SPECIAL PROVISION 518. FOR DEPTHS GREATER THAN 6 INCHES, AAA MODIFIED CONCRETE WITH 3/8" AGGREGATE MAY BE USED FOR BOTH THE REPAIR AND HEADER, AS DIRECTED BY THE RESIDENT AND IN ACCORDANCE WITH SPECIAL PROVISION 518.
7. PAYMENT FOR SAWN JOINT WILL BE MADE UNDER ITEM 419.30 SAWING BITUMINOUS PAVEMENT. PAYMENT FOR ASTM D6690 TYPE II JOINT SEALANT WILL BE INCIDENTAL.
8. CONTRACTOR SHALL MARK JOINT LOCATION ON THE CURB IN LOCATION OF PROPOSED SAWCUT FOR APPROVAL BY RESIDENT PRIOR TO CUTTING.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	LSF	1\25	Checked	LSF	1\25
Drawn	KLW	1\25	In Charge of	JRH	1\25

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



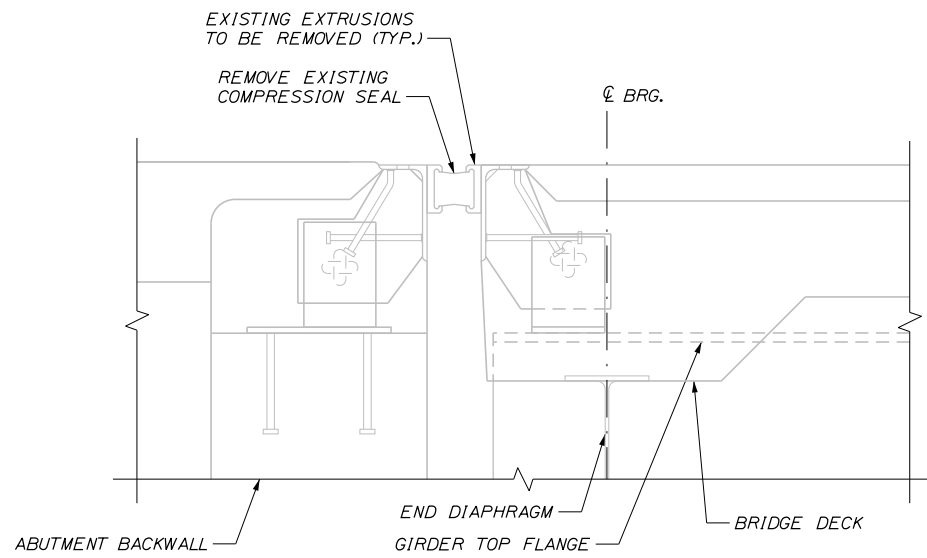
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: KRISTI VAN OUYEN, PE

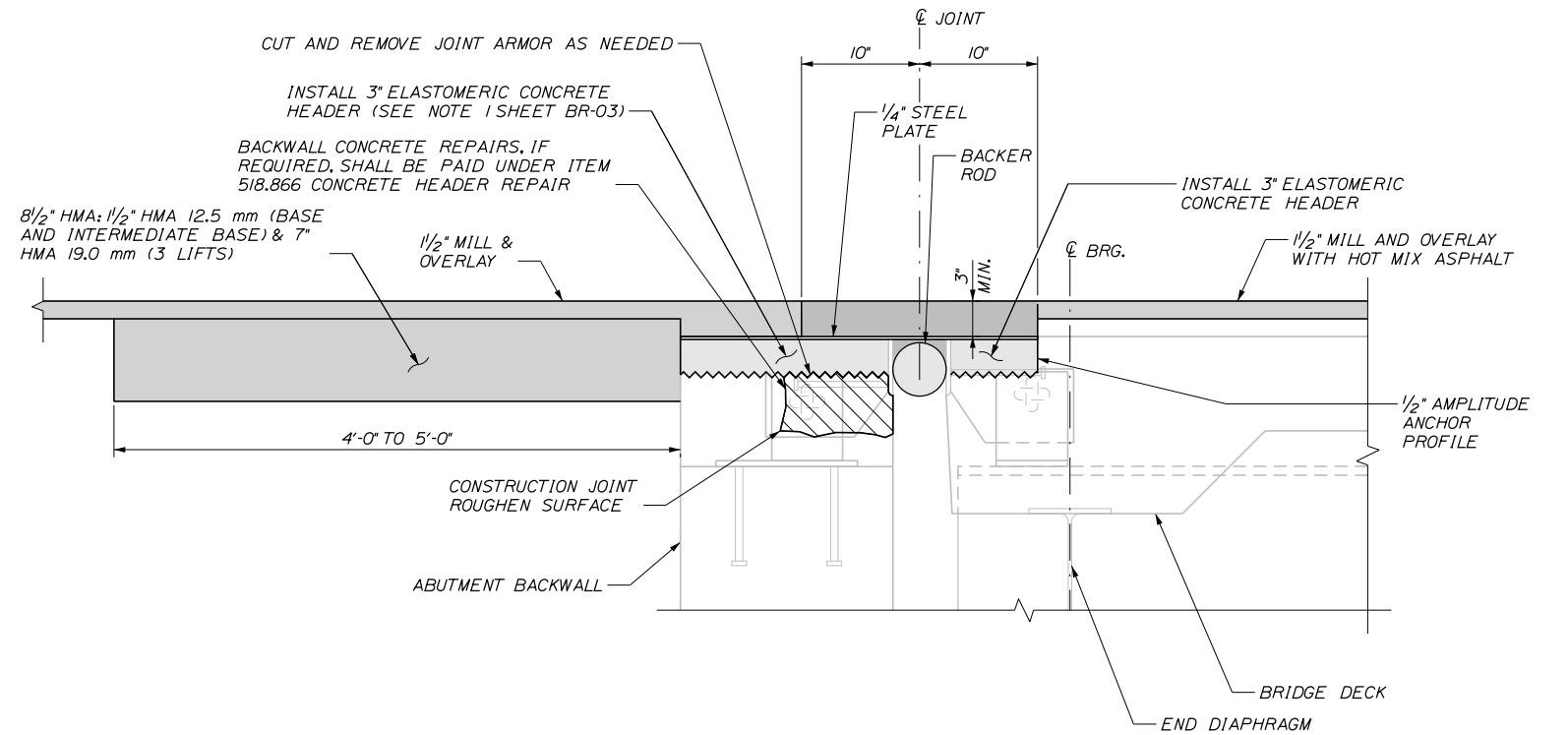
PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 SANFORD ROAD (ROUTE 109)
 NB/SB DETAILS

SHEET NUMBER: BR-04
 CONTRACT: 2025.01
 38 OF 40

Date: 1/20/2025

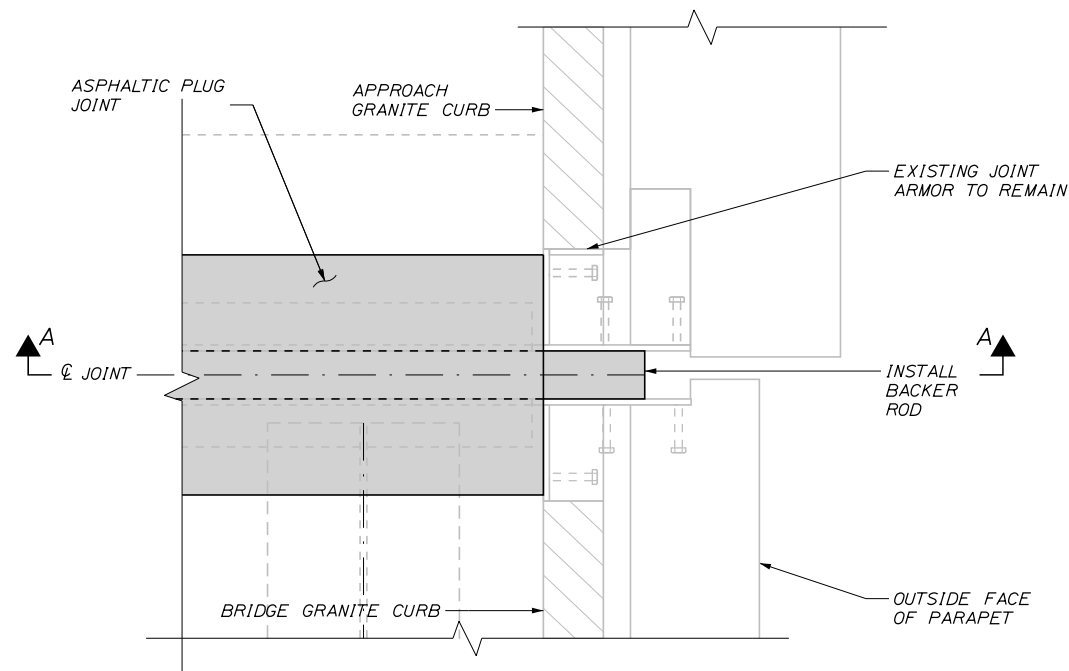


EXISTING EXPANSION JOINT SECTION
SCALE: 1/2" = 1'-0"

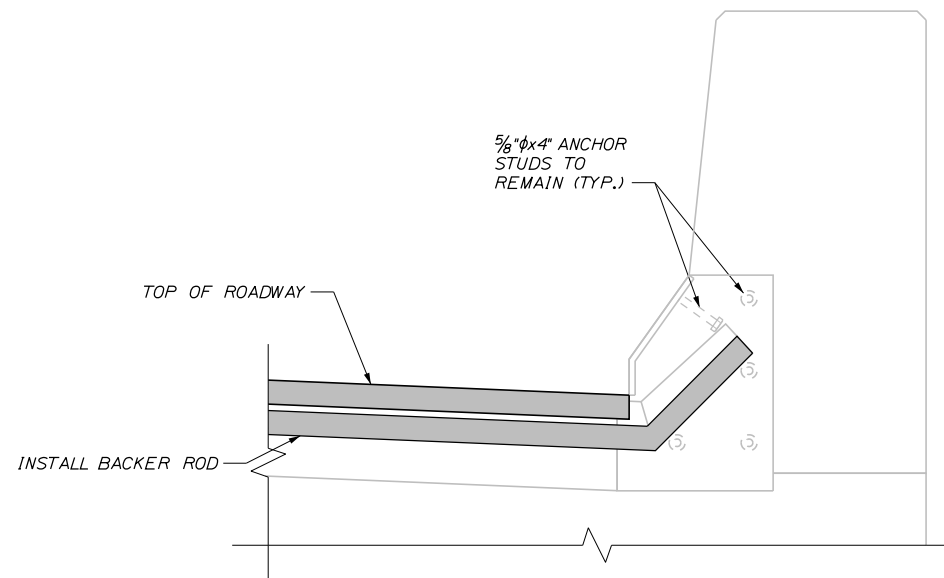


PROPOSED EXPANSION JOINT SECTION
SCALE: 1/2" = 1'-0"

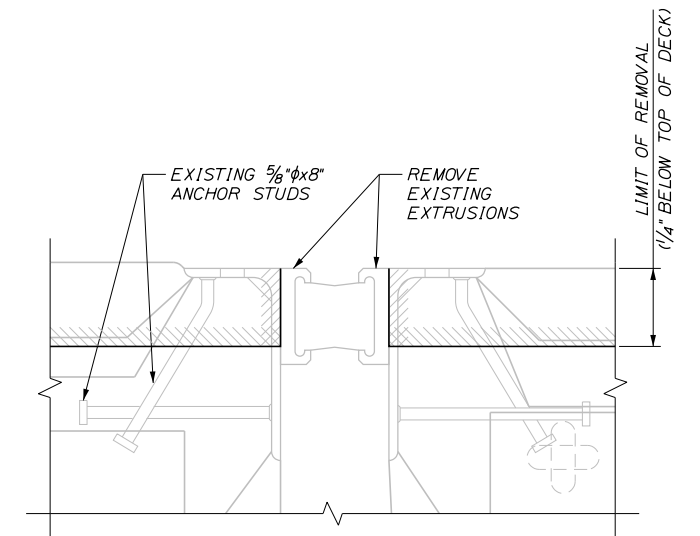
BRIDGE JOINT MODIFICATIONS
(SOUTH ABUTMENT)



JOINT DETAIL AT PARAPET - PLAN
(NORTHBOUND, SOUTHEAST CORNER)
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



ANGLE REMOVAL DETAIL
SCALE: 3" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	LSF	1\25	Checked	LSF	1\25
Drawn	KLW	1\25	In Charge of	JRH	1\25

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

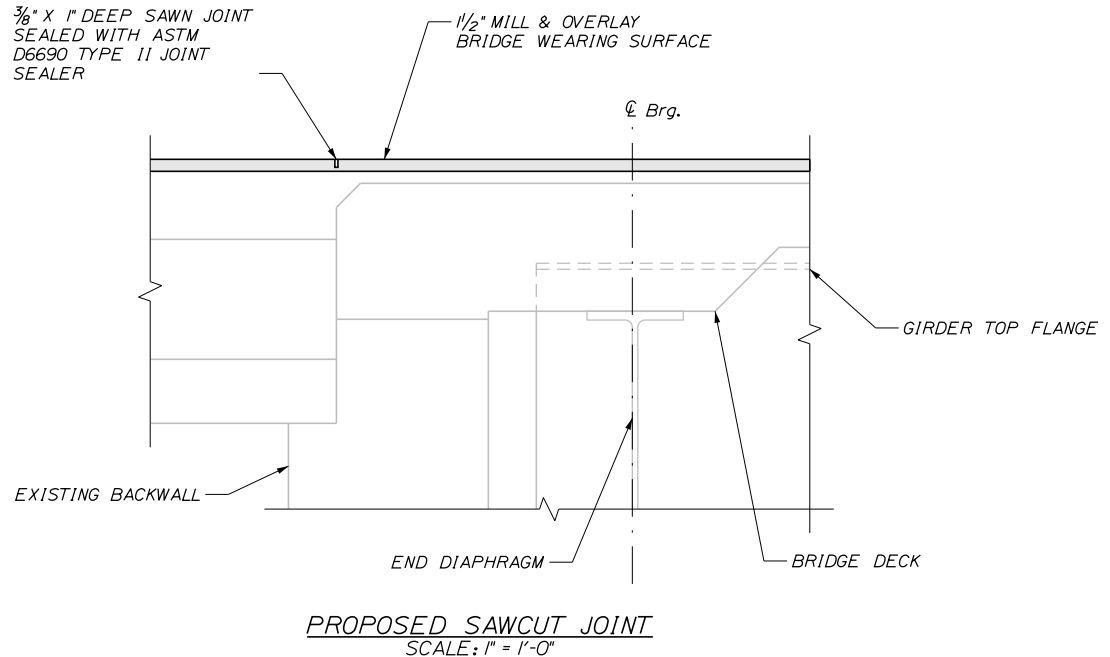
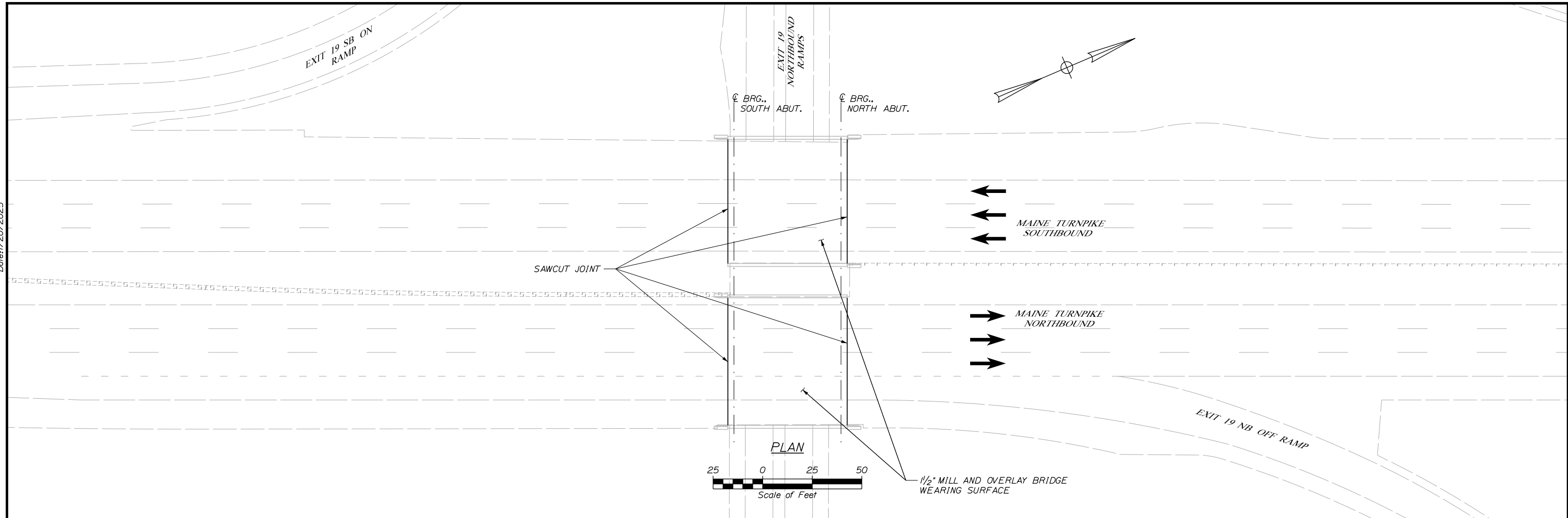
MTA PROJECT MANAGER: KRISTIVAN OUYEN, PE

PAVEMENT REHABILITATION
MM 13.4 TO MM 20.0
SANFORD ROAD (ROUTE 109)
NB/SB DETAILS

SHEET NUMBER: BR-05
CONTRACT: 2025.01
9 OF 40

Filename: ...MSTA_Details_Sanford_Rd2.dgn

Date: 1/20/2025



NOTES:

1. PAYMENT FOR SAWN JOINT WILL BE MADE UNDER ITEM 419.30 SAWING BITUMINOUS PAVEMENT. PAYMENT FOR ASTM D6690 TYPE II JOINT SEALANT WILL BE INCIDENTAL.
2. CONTRACTOR SHALL MARK JOINT LOCATION ON THE CURB IN LOCATION OF PROPOSED SAWCUT FOR APPROVAL BY RESIDENT PRIOR TO CUTTING.

Filename: ...MSTA_Details_Interchange.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: JOSEPH HOWE, PE

	By	Date		By	Date
Designed	LSF	1\25	Checked	LSF	1\25
Drawn	KLW	1\25	In Charge of	JRH	1\25

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: KRISTI VAN OUYEN, PE

PAVEMENT REHABILITATION
 MM 13.4 TO MM 20.0
 WELLS INTERCHANGE
 NB/SB DETAILS

SHEET NUMBER: BR-06

CONTRACT: 2025.01

40 OF 40