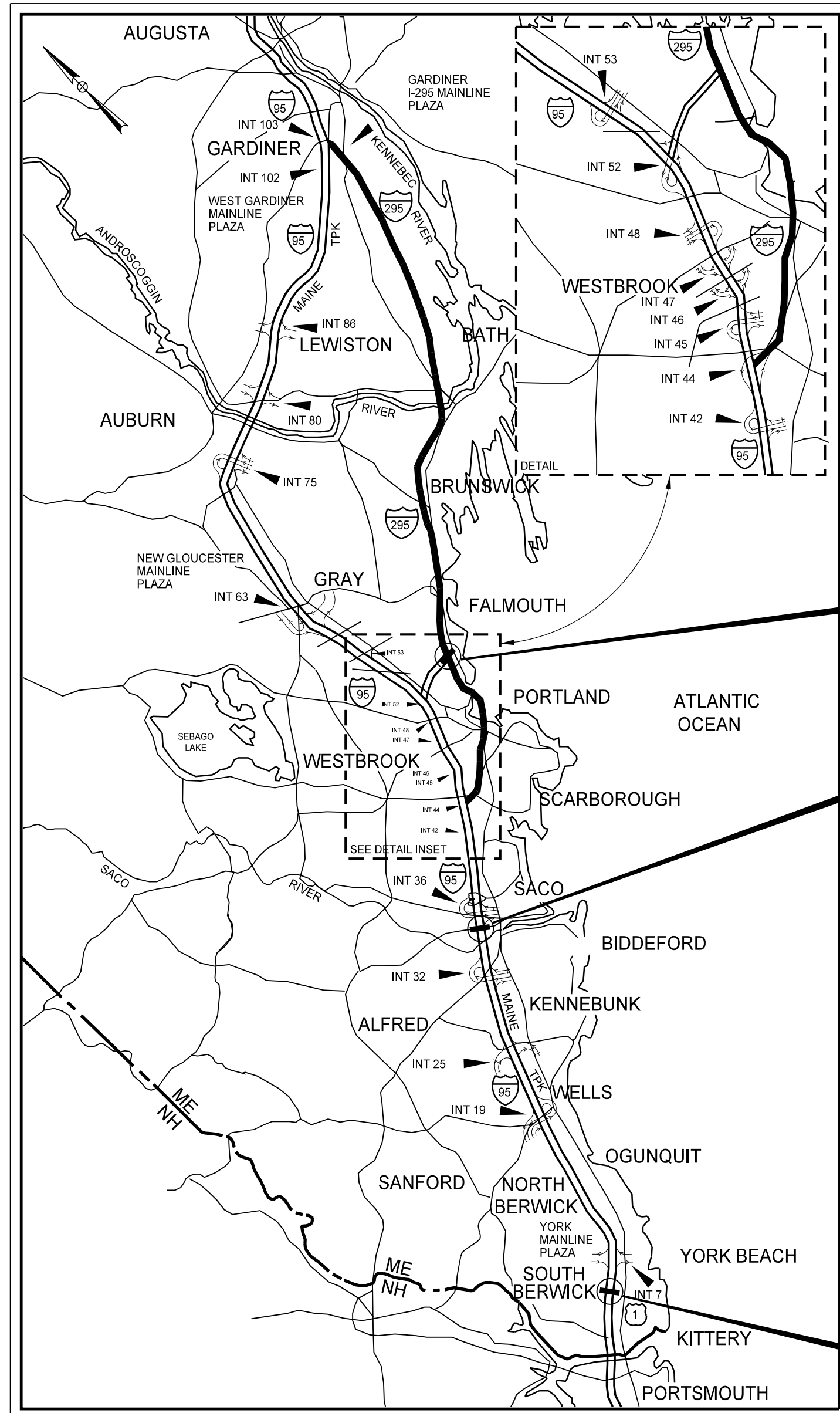
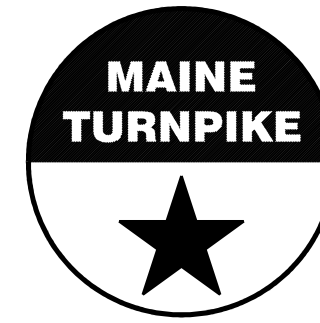


Date: 11/22/2024

Filename: ...BRIDGE.MSTAV001_title.dgn



LOCATION MAP



THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

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

PETER S. MERFELD, INTERIM EXECUTIVE DIRECTOR

CONTRACT 2025.04

BRIDGE REPAIRS
BEECH RIDGE ROAD UNDERPASS (MM 4.80)
NEW COUNTY ROAD UNDERPASS (MM 34.40)
ROUTE 9 / MIDDLE ROAD UNDERPASS (FS 3.70)

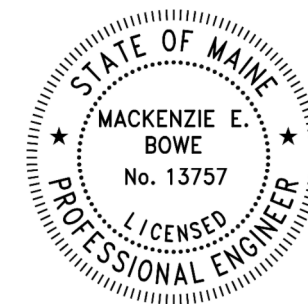
INDEX OF SHEETS

Sheet No.	Description
1	Title Sheet
2	Estimated Quantities
3	General Notes
4	Concrete Repair Typical Details
5-8	Maintenance of Traffic Details (4 Sheets)
<u>Structure 1 Beech Ridge Road Underpass</u>	
9	Bridge Plan and Elevation
10	Bridge Sections
11	Traffic Control Plan
<u>Structure 2 New County Road Underpass</u>	
12	Bridge Plan and Elevation
13	Bridge Typical Section
14	Abutment No. 1 Coating
15	Pier Coating
16	Bridge Joint Sections
17-19	Temporary Signal Plans (3 Sheets)
<u>Structure 3 Route 9 / Middle Road Underpass</u>	
20	Bridge Plan and Elevation
21	Bridge Sections
22	Traffic Control Plan

APPROVED:
MAINE TURNPIKE AUTHORITY

PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER, INTERIM EXECUTIVE DIRECTOR DATE

STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING DATE



Mackenzie E. Bowe
 Mackenzie E. Bowe, P.E.
 Consultant Project Manager

11/22/2024
DATE

Contract 2025.04

Date: 11/22/2024

ESTIMATED QUANTITIES						
ITEM NO.	DESCRIPTION	UNIT	Beech Ridge Rd Underpass (MM 4.80)	New County Rd Underpass (MM 34.40)	Rt 9 / Middle Rd Underpass (FS 3.70)	Quantity Total
202.1211	Removing Existing Girder Haunches	LF		1,250		1,250
202.202	Removing Pavement Surface	SY		1,025	120	1,145
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	TON		85		85
403.210	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size	TON			9	9
409.15	Bituminous Tack Coat RS-1 or RSlh - Applied	GAL		41	5	46
502.7011	Weep Drain Extensions	EA		12		12
515.202	Clear Protective Coating for Concrete Surfaces	SY	110	760	200	1,070
515.203	Broadcast Sealant for Concrete Surfaces	SY	820			820
518.48	Reseal Joints	LF		700	675	1,375
518.864	Elastomeric Concrete Header Repair	CF		46	25	71
518.865	Concrete Header Repair	CF		38	33	71
520.40	Joint Seal Repair	EA	2		2	4
520.98	Joint Weld Repair	EA			2	2
520.234	Expansion Device - Silicone Coated and Pre-compressed Seal	LF		75		75
526.306	Temporary Concrete Barrier, Type 1 - Supplied by the Authority (New County Road)	LS		1		1
527.341	Work Zone Crash Cushion - TL-3	Unit		2		2
606.265	Terminal End-Single Rail - Galvanized Steel	EA			1	1
627.712	White or Yellow Pavement Marking Line	LF		1,130	770	1,900
627.77	Removing Existing Pavement Marking	SF		350		350
627.78	Temporary Pavement Marking Line, White or Yellow	LF		40		40
643.72	Temporary Traffic Signal	LS		1		1
652.30	Flashing Arrow Board	EA		3		3
652.312	Type III Barricade	EA		4		4
652.33	Drum	EA	26	136	29	191
652.34	Cone	EA	25	25	25	75
652.35	Construction Signs	SF	81	1,338	126	1,545
652.361	Maintenance of Traffic Control Devices (Beech Ridge Road)	LS	1			1
652.361	Maintenance of Traffic Control Devices (New County Road)	LS		1		1
652.361	Maintenance of Traffic Control Devices (Middle Road)	LS			1	1
652.38	Flaggers	HR	175	80	160	415
652.41	Portable Changeable Message Sign	EA		2		2
652.45	Truck Mounted Attenuator	CD		20		20
656.75	Temporary Soil Erosion and Water Pollution Control	LS		1		1
659.10	Mobilization	LS		1		1
830.17	Utility Conduit Hanger System Hardware	LS		1		1

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Scale: AS NOTED

Designed by:



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 FAX (207) 253-5596



**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2025.04
 BRIDGE REPAIRS
 ESTIMATED QUANTITIES

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: M. Bowe					
	By	Date	By	Date	
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	BJM	11/22/24	In Charge of	MEB	11/22/24

VHB: 55807.00
 CONTRACT: 2025.04

SHEET NUMBER: 2
 2 OF 22

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

SPECIFICATIONS

Design: AASHTO LRFD Bridge Design Specifications, 2020.

Construction: State of Maine Department of Transportation Standard Specifications, 2014 Edition, with all revisions thereto.

State of Maine Department of Transportation Standard Details for Highways and Bridges, 2020 Edition, with all revisions thereto.

AASHTO LRFD Bridge Construction Specifications, Fourth Edition

NEW MATERIALS

Concrete (Unless noted otherwise) Class AAA - Modified
Reinforcing Steel ASTM A615/A615M, Grade 60

Structural Steel:
All Material (except as noted) ASTM A709/A709M, Grade 36
High Strength Bolts (except as noted) ASTM A325, Type I

BASIC DESIGN STRESSES (NEW MATERIALS)

Concrete $f'c = 4,500 \text{ psi}$

Reinforcing Steel $f_y = 60,000 \text{ psi}$

Structural Steel:
ASTM A 709/A 709M, Grade 36 $F_y = 36,000 \text{ psi}$
ASTM A 325 $F_u = 120,000 \text{ psi}$

TRAFFIC AND DESIGN LOADING DATA

BEECH RIDGE ROAD UNDERPASS

Design Live Load (for existing components) HS 20-44
AADT 2,650
Design Speed (MPH) (for existing) 35
Functional Class Minor Collector

NEW COUNTY ROAD UNDERPASS

DESIGN LIVE LOAD (for existing components) Unknown
AADT 5,250
Design Speed (MPH) (for existing) 30
Functional Class Major Collector

ROUTE 9 / MIDDLE ROAD UNDERPASS

DESIGN LIVE LOAD (for existing components) Unknown
AADT 10,400
Design Speed (MPH) (for existing) 30
Functional Class Major Collector

GENERAL CONSTRUCTION NOTES

- All details shall be in conformance with Maine Department of Transportation (MaineDOT) 2020 Standard Details for Highways and Bridges with all updates and MaineDOT Best Management Practices for Erosion and Sediment Control, latest revision unless otherwise noted in these plans.
- All work must be completed within the limits shown in these Plans.
- The Contractor shall submit proposed staging area(s) and field trailer location to the Resident for approval prior to starting work.
- Any portions of the existing bridges removed by the Contractor shall become the property of the Contractor. The steel portions of the existing bridges may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the work of this project.
- Copies of the As-Built plans are posted on the Maine Turnpike Authority website at www.maineturnpike.com/projects/construction-contracts. The completeness and accuracy of these plans is not guaranteed.
- Chamfer all exposed new concrete edges $\frac{3}{4}$ " unless otherwise noted.
- For all structures clear protective coating for concrete surfaces shall be applied to the following areas:
- All bridge curbs, parapets, and transition barriers as shown in these plans.
- For the New County Road Underpass, all exposed faces of the substructure abutments and pier.
- The Contractor shall place approach pavement at all locations to achieve a smooth transition between existing and proposed pavement.
- Prior to the removal of any pavement, the Contractor shall document the location, type, and color of all pavement striping and provide that information to the Resident. The Maine Turnpike Authority will place all new striping at no cost to the Contractor.

EROSION CONTROL NOTE


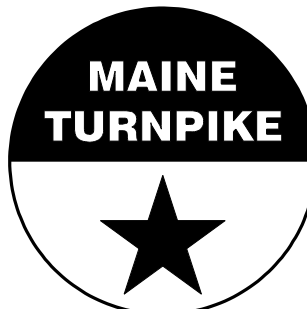
- All temporary and permanent erosion control devices shall be installed in accordance with the Maine Department of Transportation Best Management Practices.

UTILITIES NOTES

- Existing utilities on these plans were compiled from existing plans and various other sources. Locations are not guaranteed to be accurate nor is it guaranteed that all utilities are shown. No separate or additional compensation will be allowed to the Contractor due to any variance between the data shown on the plans and the actual field conditions encountered. No work shall be started until the owners of the various utilities are notified by the Contractor of the proposed construction. The Contractor is also required to call Dig Safe at 1-888-344-7233 at least 72 hours prior to the start of the work.
- The Contractor shall contact all non-members through www.OKtoDIG.com or as otherwise required by the Maine Public Utilities Commission. All proposed excavation locations shall be marked at the time of notification. No excavation shall be permitted until the authority has located and marked its underground utilities. The Resident shall be provided an electronic copy of all Dig Safe tickets within 24 hours of their release for project notifications and 3rd party utility locator coordination.
- The Contractor shall notify the Resident 10 calendar days prior to submitting a utility locate request through Dig Safe so that the Resident can arrange for Maine Turnpike underground utility location. All proposed sign locations and excavation locations shall be marked at the notification time.
- Contractor shall protect all new and existing utilities from damage during the construction as approved by the utility owners.
- 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 locate is call for in the project. This work shall be considered incidental to the contract.
- The utilities involved in this contract are:
Beech Ridge Road Underpass: Consolidated Communications, Inc. (CCI)
New County Road Underpass: Central Maine Power (CMP), Spectrum, CCI
Middle Road Underpass: CMP, CCI, Town of Falmouth (Sewer)

Date: 11/22/2024

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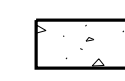
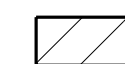
Scale: AS NOTED		Designed by:		 VANASSE HANGEN BRUSTLIN, INC. 500 Southborough Dr. Suite 105B South Portland, ME 04106 TEL (207) 889-3150 FAX (207) 253-5596		 THE GOLD STAR MEMORIAL HIGHWAY		MTA PROJECT NO. 2025.04 BRIDGE REPAIRS GENERAL NOTES																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 15%;">Revision</th> <th style="width: 5%;">By</th> <th style="width: 5%;">Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision					By	Date													CONSULTANT PROJECT MANAGER: M. Bowe		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">By</th> <th style="width: 5%;">Date</th> <th style="width: 5%;">By</th> <th style="width: 5%;">Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>HMR 11/22/24</td> <td>Checked</td> <td>HNH 11/22/24</td> </tr> <tr> <td>Drawn</td> <td>BJM 11/22/24</td> <td>In Charge of</td> <td>MEB 11/22/24</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	HMR 11/22/24	Checked	HNH 11/22/24	Drawn	BJM 11/22/24	In Charge of	MEB 11/22/24
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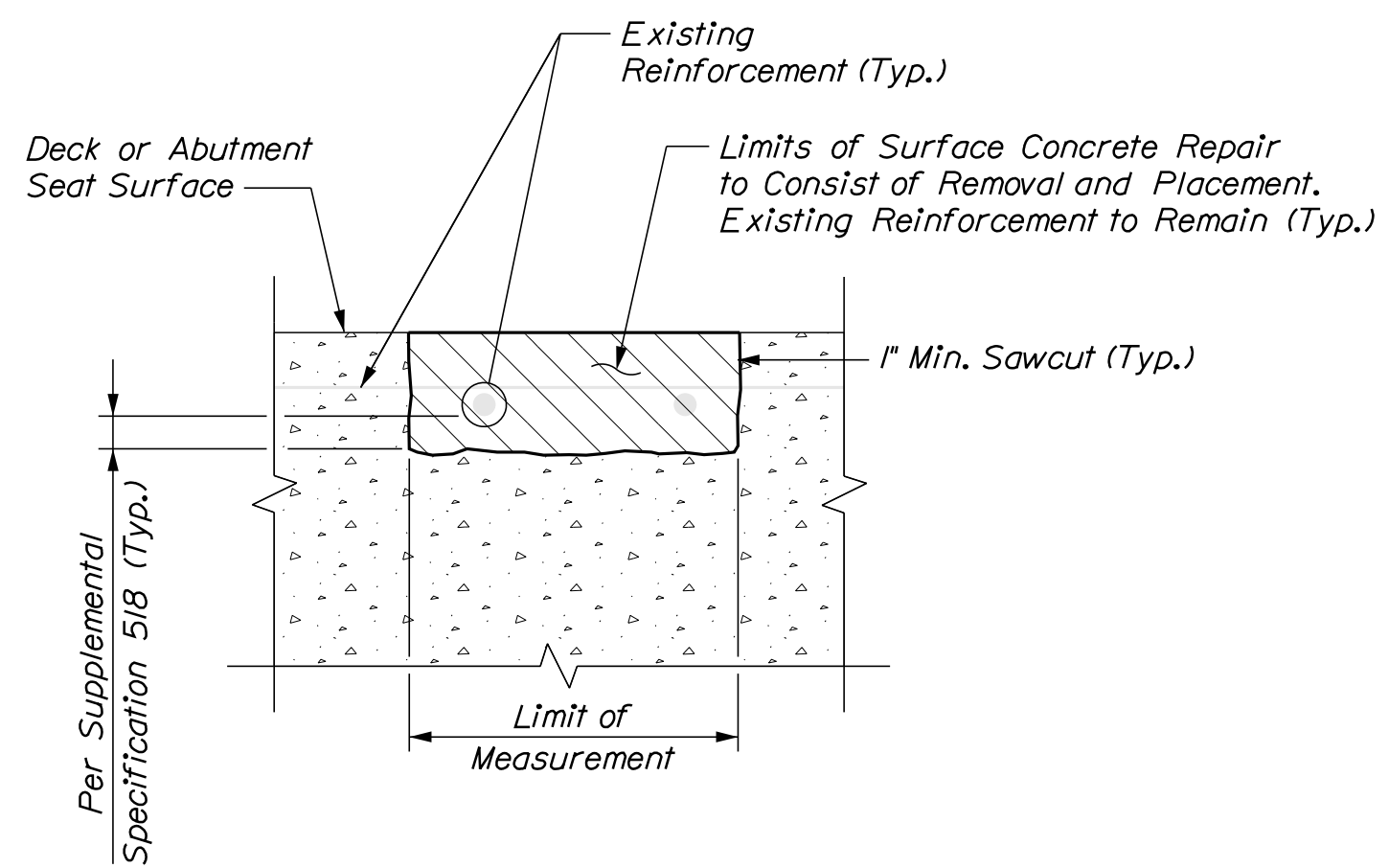
MTA PROJECT MANAGER: Kristi Van Ooyen, PE

Date: 11/22/2024

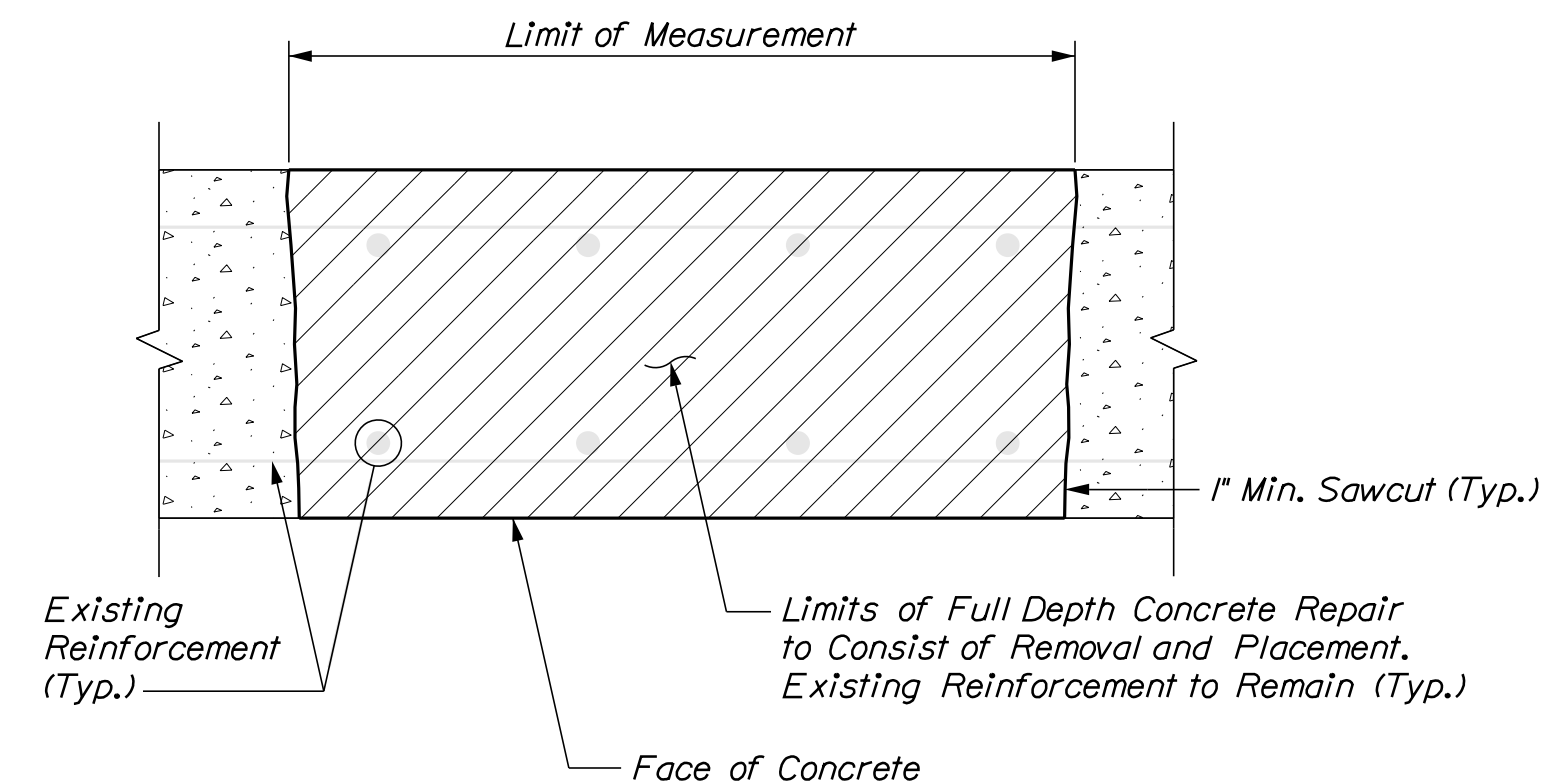
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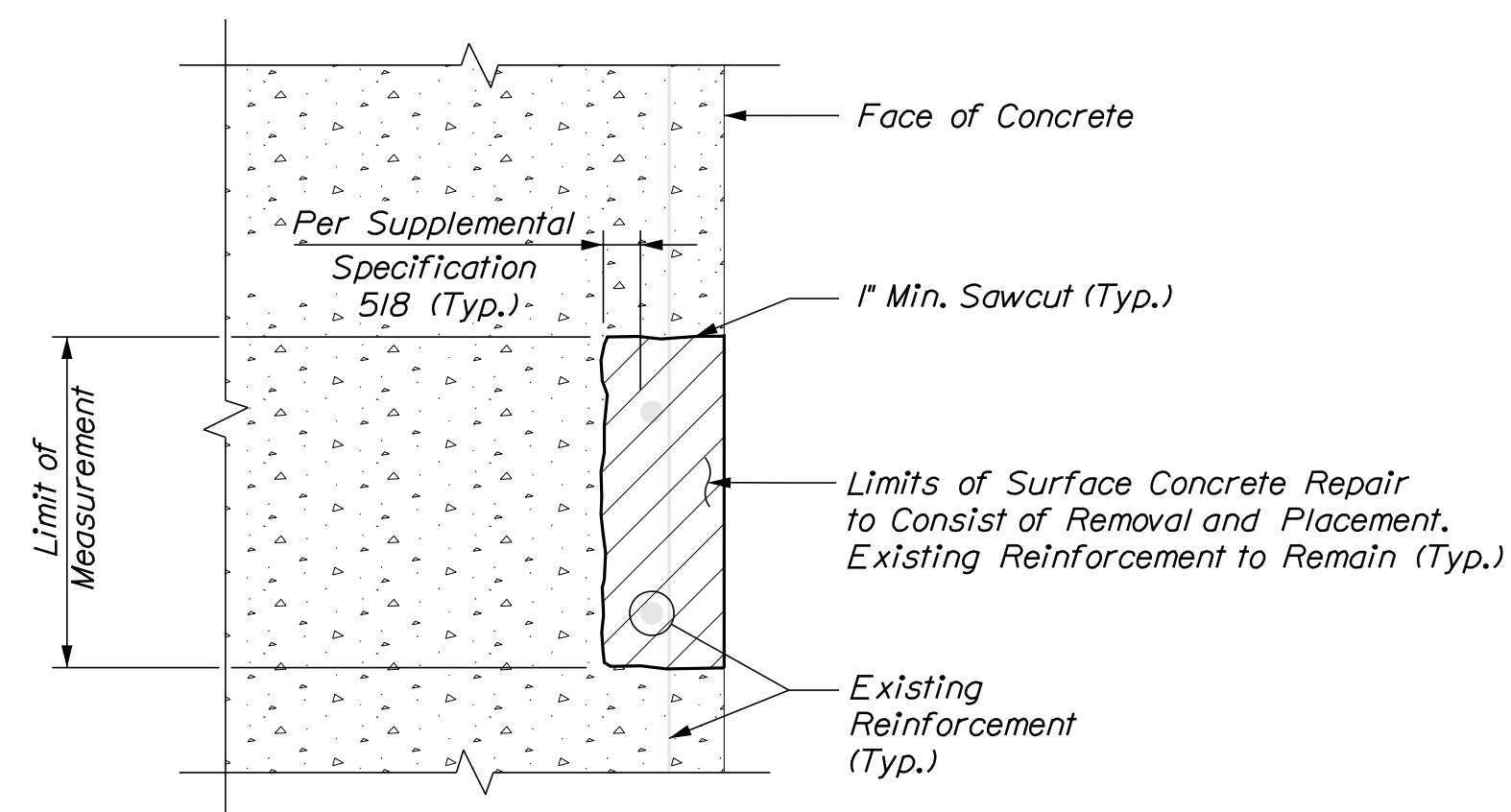
-  Existing Concrete
-  Proposed Concrete



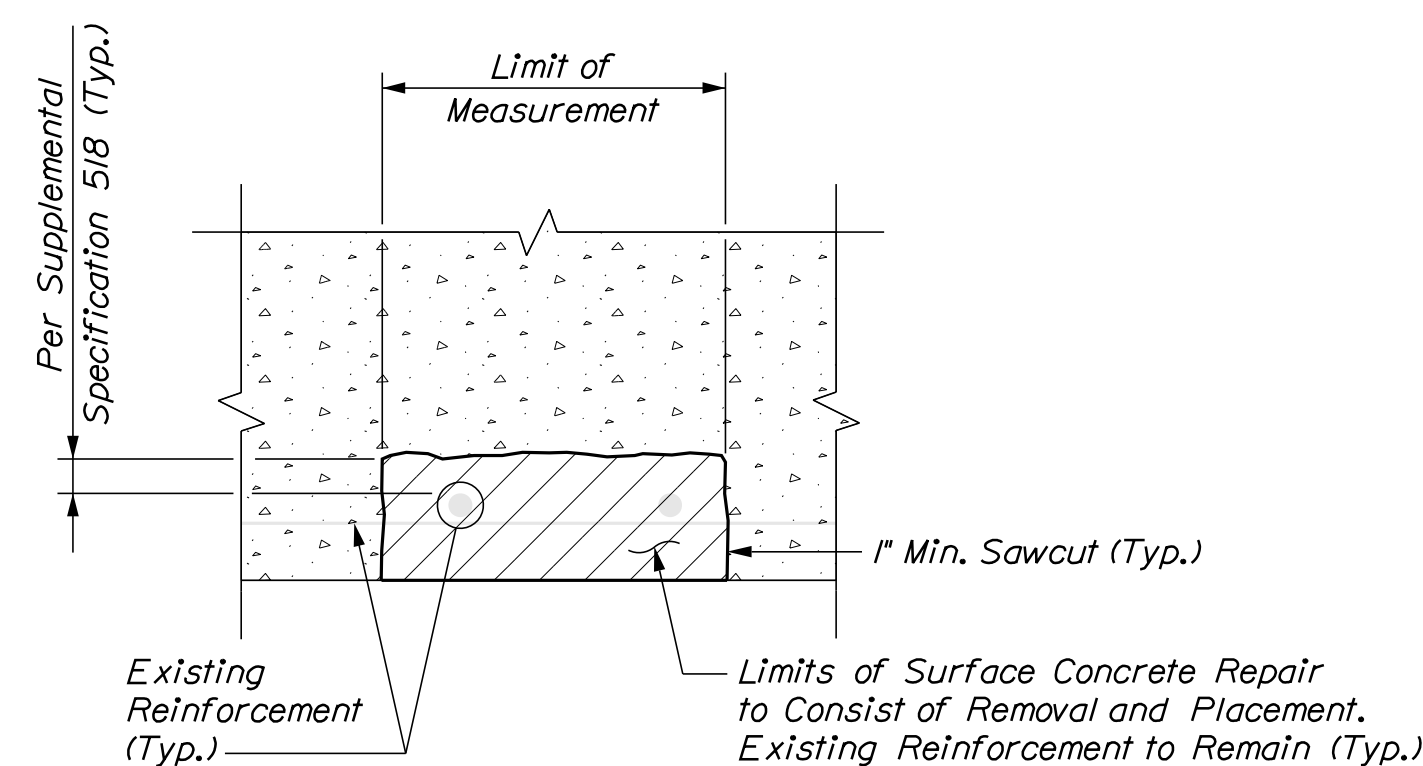
TYPICAL HORIZONTAL SURFACE CONCRETE REPAIR DETAILS



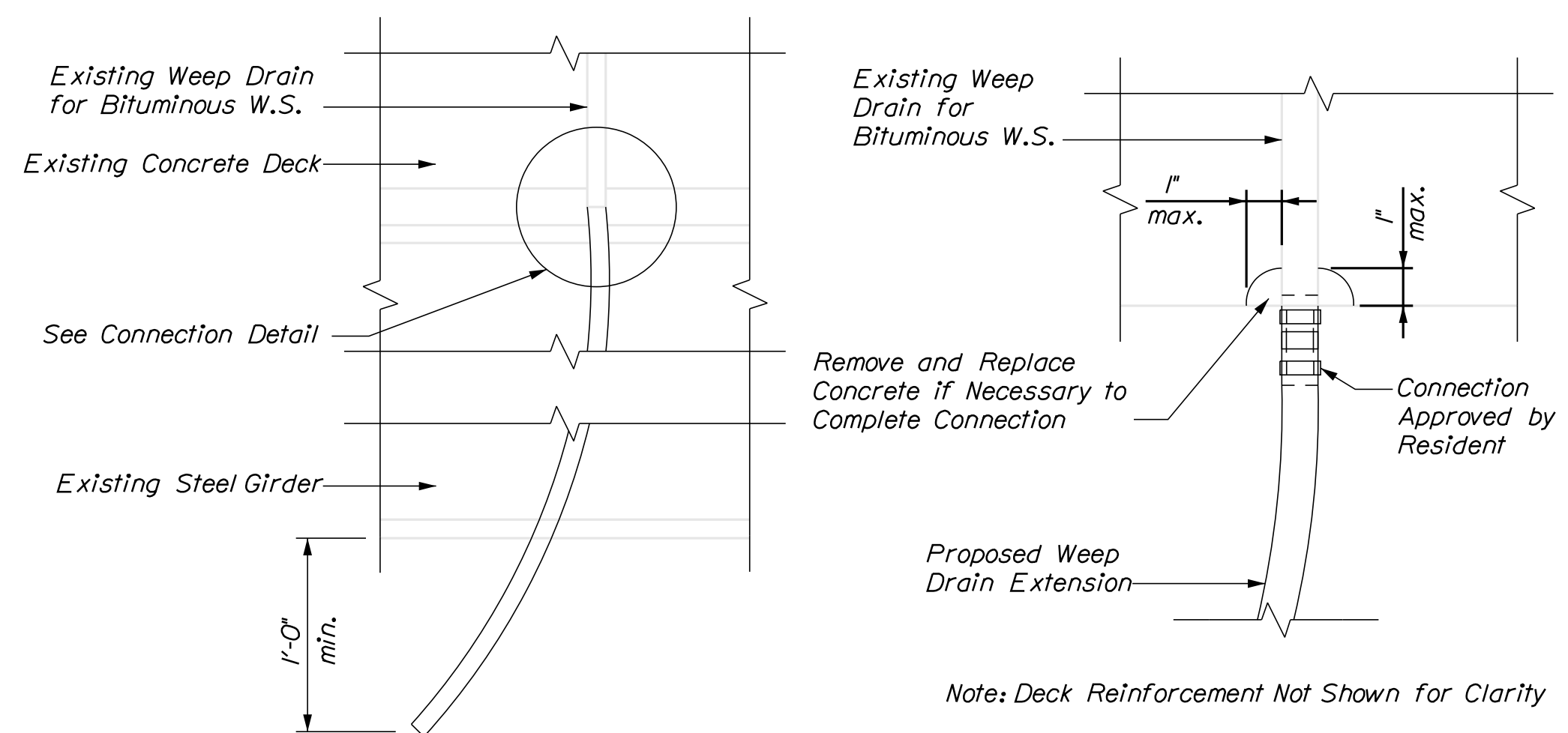
TYPICAL FULL DEPTH CONCRETE REPAIR DETAILS



TYPICAL VERTICAL SURFACE CONCRETE REPAIR DETAILS

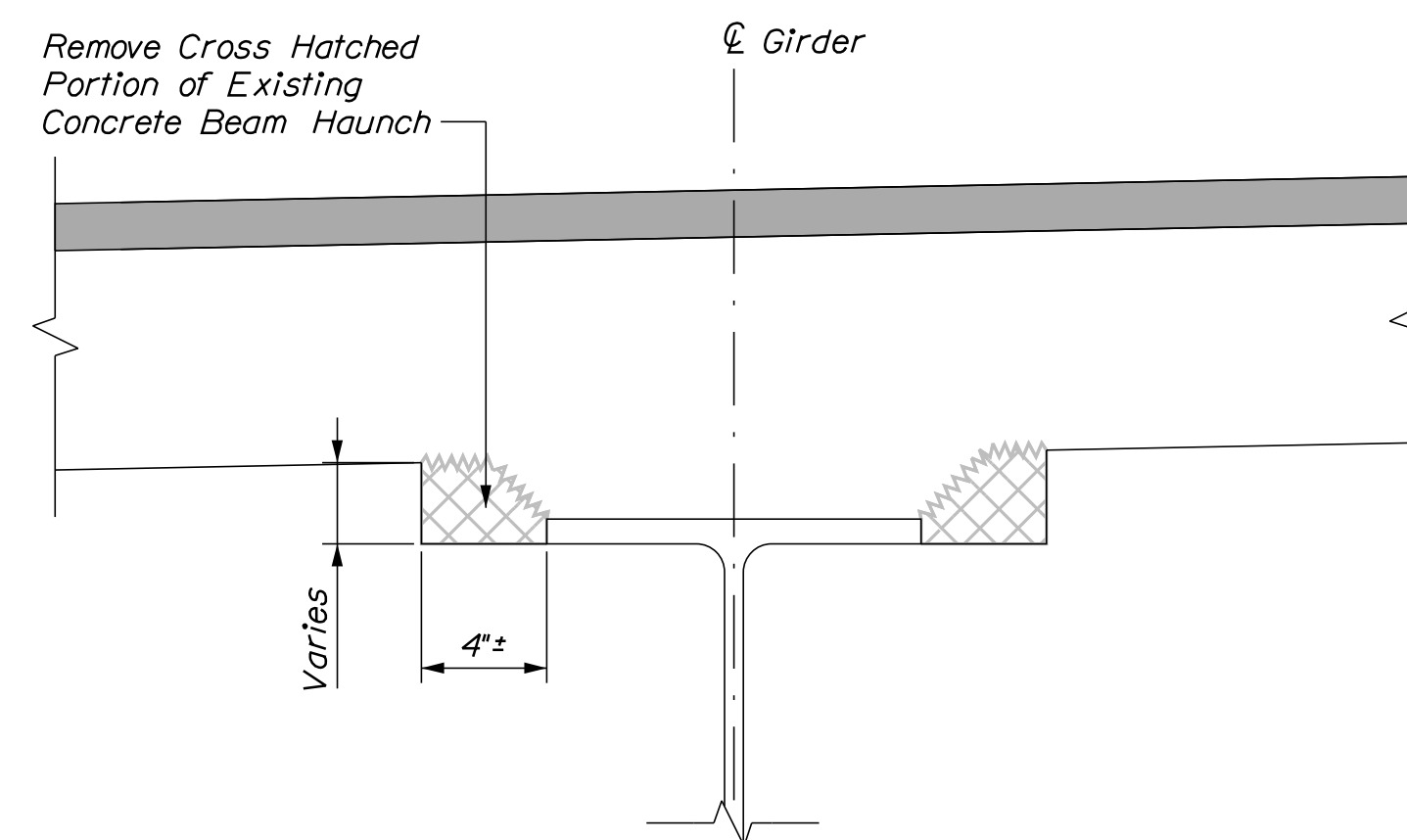


TYPICAL OVERHEAD SURFACE CONCRETE REPAIR DETAILS

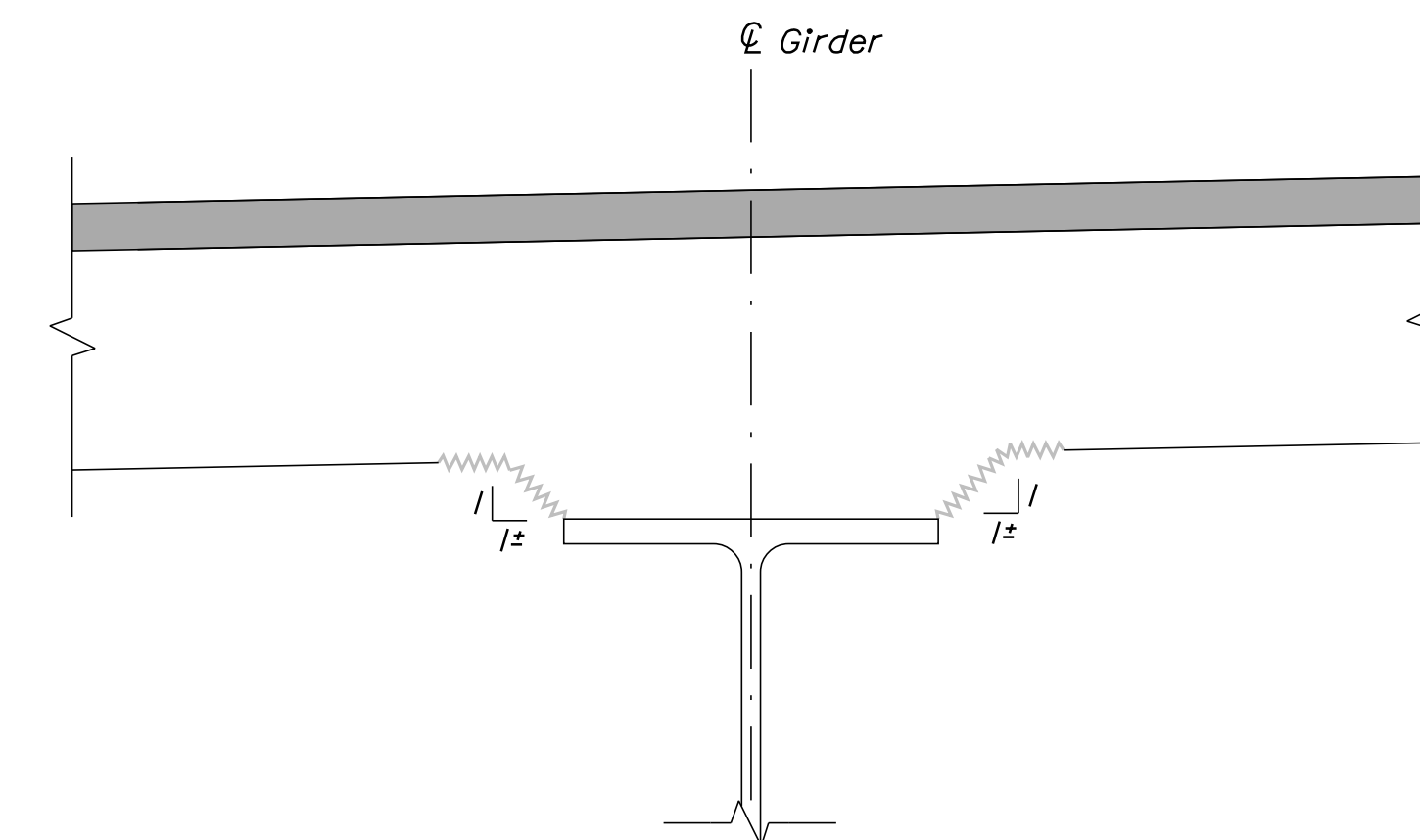


WEEP DRAIN EXTENSION
Not to Scale

WEEP DRAIN CONNECTION DETAIL
Not to Scale



EXISTING CONDITION
Not to Scale



FINAL CONDITION
Not to Scale

CONCRETE HAUNCH REMOVAL DETAILS

CONCRETE REPAIR NOTES

- Repair work shall include: surface concrete repairs, epoxy injection crack repair and providing access for inspection.
- Where surface concrete repairs are specified the work shall include removal of unsound concrete and placement and curing of repair materials. Repairs shall be measured for payment under Item 518.10, Abutment Repairs.
- Prior to the start of any concrete repairs the Resident and the Contractor shall sound all concrete surfaces and agree on the repair limits. Estimated repair quantities may increase or decrease at the Resident's discretion.
- The estimated repair quantities are based on inspections completed in July and August 2024.

CONCRETE REPAIR PROCEDURE

- Perform 1" deep saw cuts along limits of removal.
- Chip concrete to the depth 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 removal.
- Prepare and patch repair areas with Class AAA modified concrete or other materials selected from the applicable non-emergency list of materials in Supplemental Specification 518.
- Perform general finishing.

WEEP DRAIN EXTENSION NOTE

- All PVC deck weeps which drain onto piers, abutments or structural steel shall be extended and diverted away from bridge components below deck, and shall extend 1 foot below bottom flange, as directed by the Resident. Payment shall be made under pay Item 502.7011, Weep Drain Extensions.

CONCRETE HAUNCH REMOVAL NOTES

- The removal of the portion of the concrete haunch shown shall be paid for at the contract unit price per linear foot under Item 202.1211, Removing Existing Girder Haunches. The Haunch on each side of the girder shall be measured separately for payment.
- If over-removal results, apply two coats of epoxy resin to deck reinforcing steel exposed during haunch removal. All reasonable precautions shall be taken to avoid this condition. Epoxy resin and application shall be incidental to Item 202.1211, Removing Existing Girder Haunches.
- After concrete removal, the exposed concrete shall be sealed with clear protective coating. Clear protective coating and application shall be incidental to Item 202.1211, Removing Existing Girder Haunches.
- Prior to the start of any concrete haunch removal, the Resident and Contractor shall jointly inspect all haunches for removal and agree on the removal limits. Estimated haunch removal quantities may increase or decrease at the Resident's discretion.

Scale: NOT TO SCALE

Designed by:



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FAX (207) 253-5596



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2025.04
BRIDGE REPAIRS
CONCRETE REPAIR TYPICAL DETAILS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: M. Bowe					
	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	BJM	11/22/24	In Charge of	MEB	11/22/24

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 4
4 OF 22


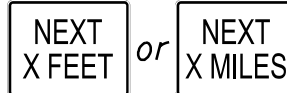



Date: 11/22/2024

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MAINTENANCE OF TRAFFIC GENERAL NOTES

1. These traffic control plans and details apply to all of the project sites included in this Project. Where typical traffic control layouts may be appropriate, the Contractor is directed to use a typical layout from this project's Maintenance of Traffic Details or from the Maine Turnpike Authority Traffic Control Plans located on the MTA website at www.maineturnpike.com/Projects/Construction-Related-Documents.aspx. Where site-specific traffic control plans are required, see the applicable traffic control plans within the Plans. See also the Special Provisions for more details on site specific temporary traffic controls with time and date restrictions.
2. All orange construction signs shall be fluorescent orange with Type VIII, IX or XI sheeting. Placement of signs shall be adjusted to avoid obstructing existing signs and to ensure proper sight lines to the construction signs as determined by the Resident and shall be new or in like new condition.
3. Temporary lane closures will be required, with advanced approval, whenever work will occur within four feet of the I-95 traveled way. Temporary lane closures shall be removed if no work is occurring. See Special Provisions for more information.
4. All lane closures shall require approval from the Maine Turnpike Authority through the Resident. The Resident is required to submit a request for lane closures by noon on Thursday for any lane closures needed for the following week. The Contractor shall plan the work and requests for lane closures accordingly.
5. Approach ends of temporary concrete barrier shall be placed outside of the highway clear zone (minimum 34 feet from the traveled way along I-95) or protected by temporary impact attenuators or with guardrail overlaps as approved by the Resident.
6. Maximum spacing for channelizing devices (drums) on the mainline of the Turnpike shall be:
80' on center along tangents
40' on center along tapers
7. Work Zone Speed Limits shall only be permitted when temporary lane closures are in place.

STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
G20-2 	Text Dimensions Shall Conform to 'Standard Highway Signs' - 2012		48"x24"	1 - Black on Orange
W7-3aP 			36"x30"	1 - Black on Orange
W20-1 (AHEAD) 			48"x48"	2 - Black on Orange
W21-5 			48"x48"	1 - Black on Orange
CS-10 			48"x48"	1 - Black on Orange


ABBREVIATIONS FOR ALL WORK ZONE PLANS

BWLL = BROKEN WHITE LANE LINE
 SWEL = SOLID WHITE EDGE LINE
 SYEL = SOLID YELLOW EDGE LINE

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: M. Bowe					
	By	Date		By	Date
Designed	MLG	11/22/24	Checked	MDS	11/22/24
Drawn	JAR	11/22/24	In Charge of	MEB	11/22/24

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**THE GOLD STAR
 MEMORIAL HIGHWAY**







MTA PROJECT MANAGER: Kristi Van Ooyen, PE


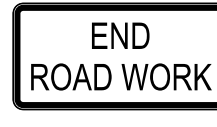






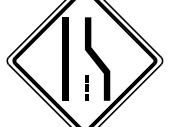
MTA PROJECT NO. 2025.04 BRIDGE REPAIRS	
MAINTENANCE OF TRAFFIC DETAILS (1 OF 4)	
VHB: 55807.00	SHEET NUMBER: 5
CONTRACT: 2025.04	5 OF 22








TURNPIKE SHOULDER CLOSURES

TEMPORARY SINGLE AND DOUBLE LANE CLOSURES

TEMPORARY SINGLE AND DOUBLE LANE CLOSURES CONTINUED

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
G20-2 	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x24"	4 - Black on Orange
W20-1 (AHEAD) 			48"x48"	4 - Black on Orange
W21-5aL 			48"x48"	2 - Black on Orange
W21-5aR 			48"x48"	1 - Black on Orange
W21-5bL 			48"x48"	2 - Black on Orange
W21-5bR 			48"x48"	1 - Black on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
CS-3 	7" 7"	4" 4"	48"x48"	4 - Black on Orange
G20-2 	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x24"	4 - Black on Orange
G20-5aP 			36"x24"	4 - Black on Orange
R2-1(60) 			48"x60"	4 - Black on White
R2-6aP 			36"x24"	4 - Black on White
W3-4 			48"x48"	4 - Black on Orange
W3-5(60) 			48"x48"	4 - Black on Orange
W4-2L 			48"x48"	8 - Black on Orange
W4-2R 			48"x48"	8 - Black on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W8-1 	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x48"	8 - Black on Orange
W8-24a 			48"x48"	4 - Black on Orange
W20-1 			48"x48"	4 - Black on Orange
W20-5aL 			48"x48"	4 - Black on Orange
W20-5aR 			48"x48"	4 - Black on Orange
W20-5L 			48"x48"	4 - Black on Orange
W20-5R 			48"x48"	4 - Black on Orange


Date: 11/22/2024

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No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date		By	Date
Designed	MLG	11/22/24	Checked	MDS	11/22/24
Drawn	JAR	11/22/24	In Charge of	MEB	11/22/24

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 FAX (207) 253-5596



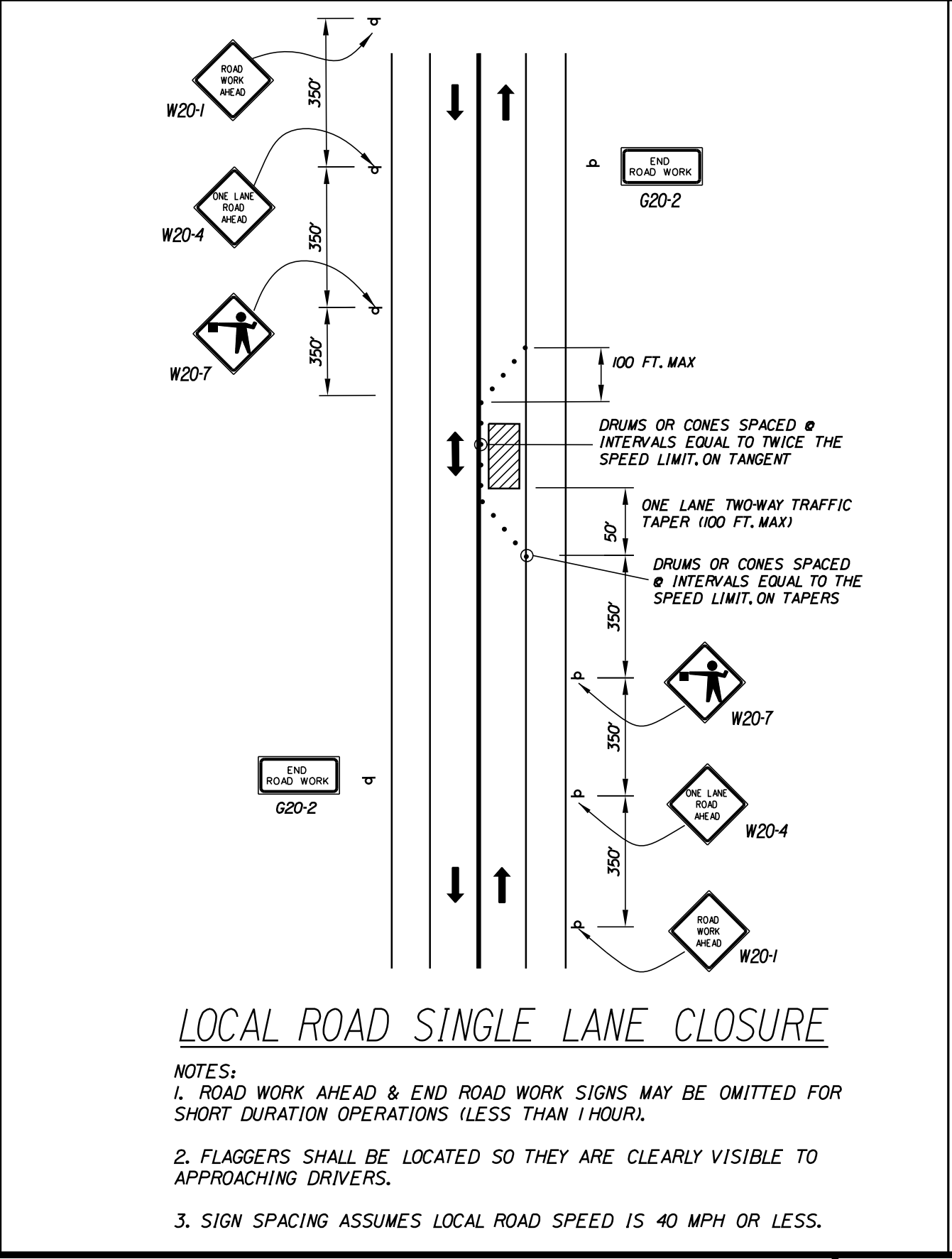
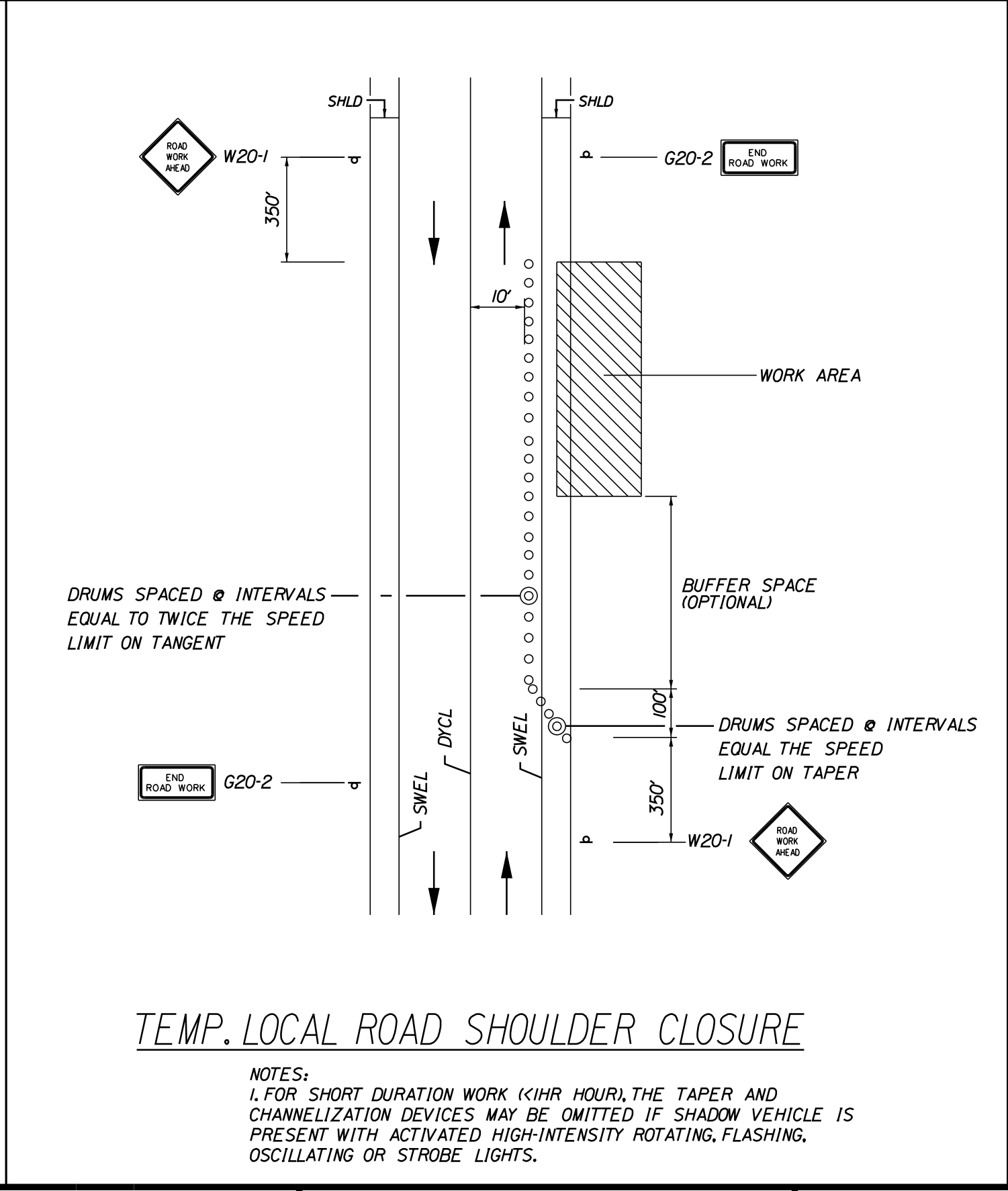
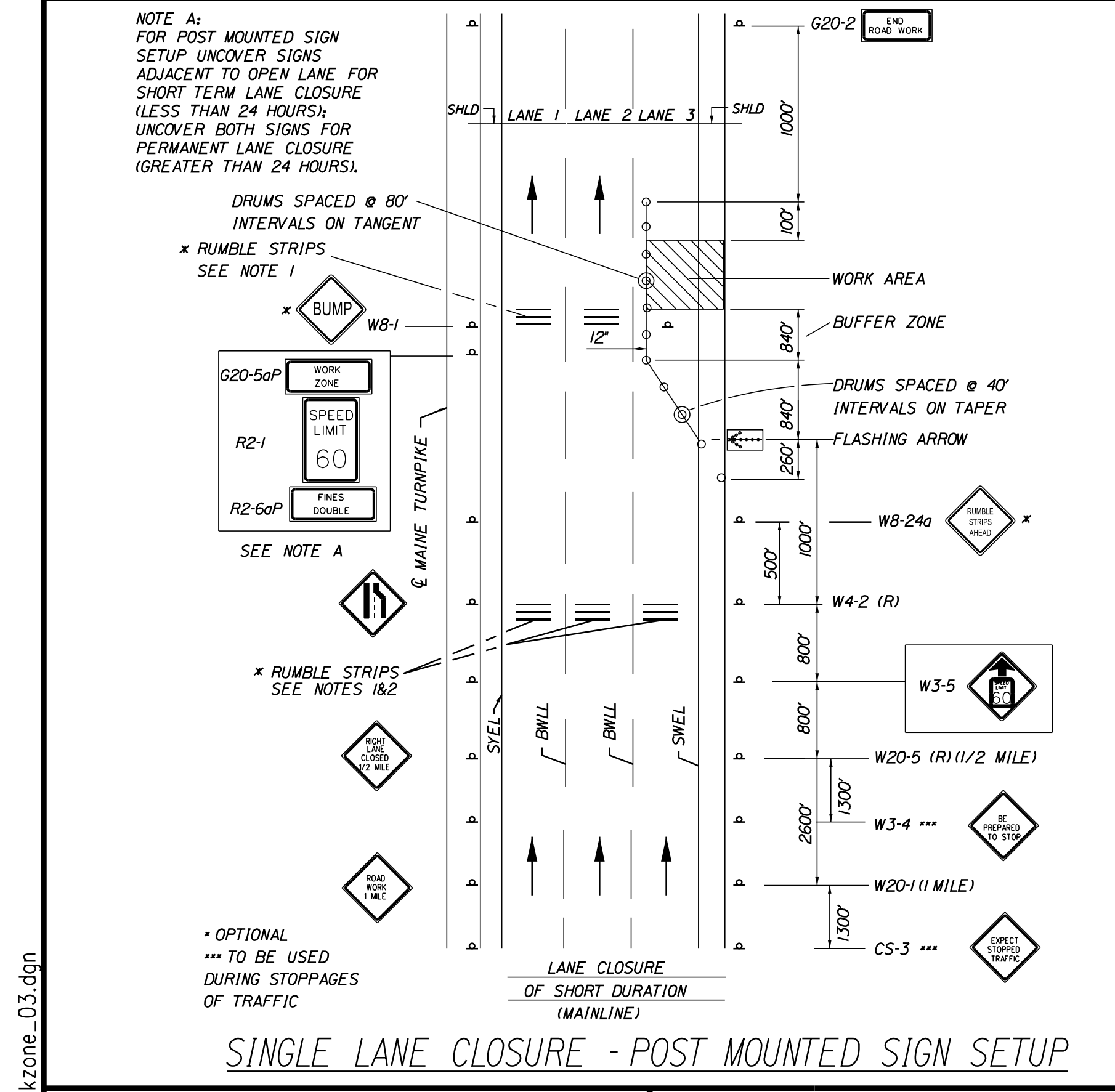
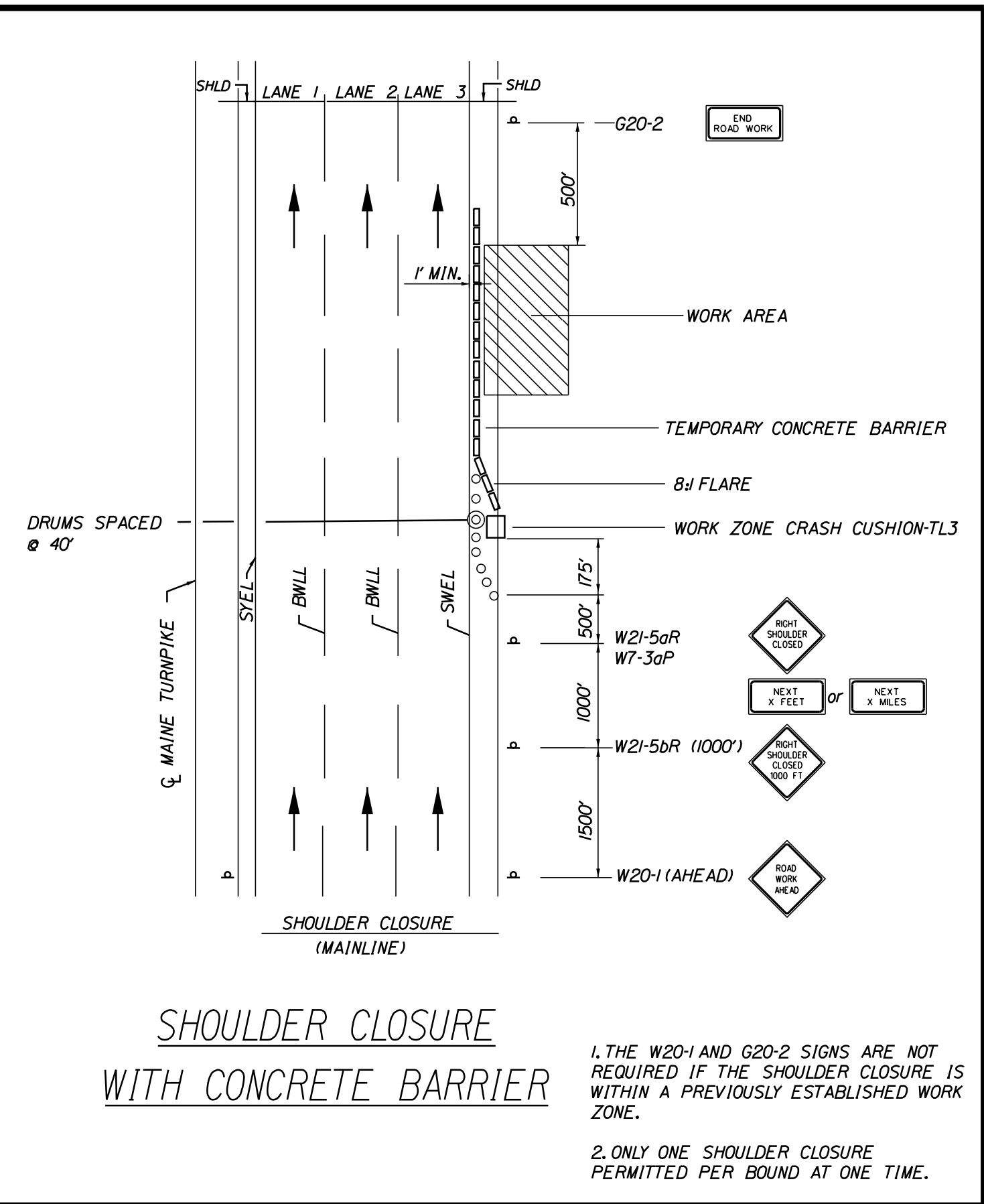
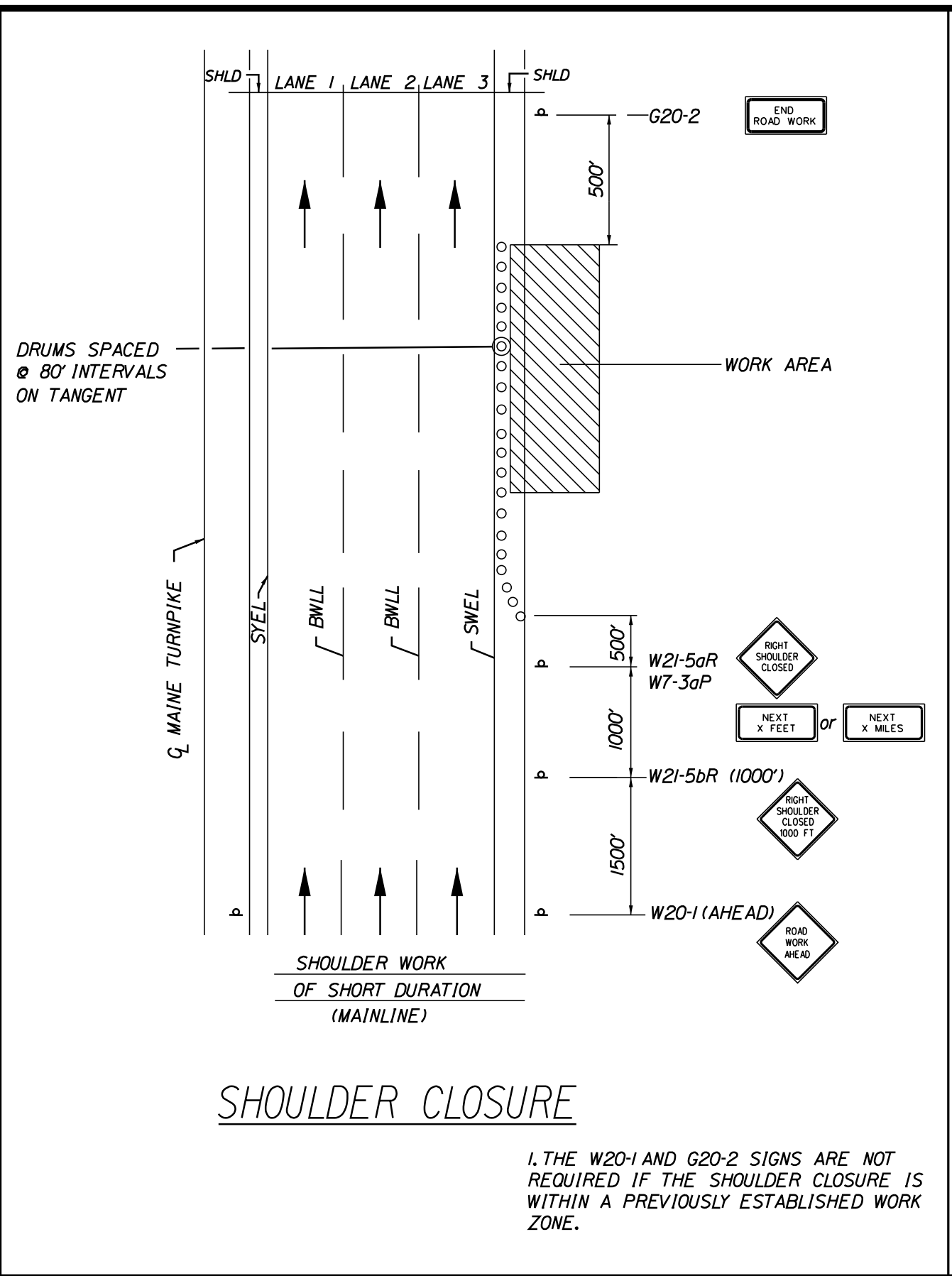
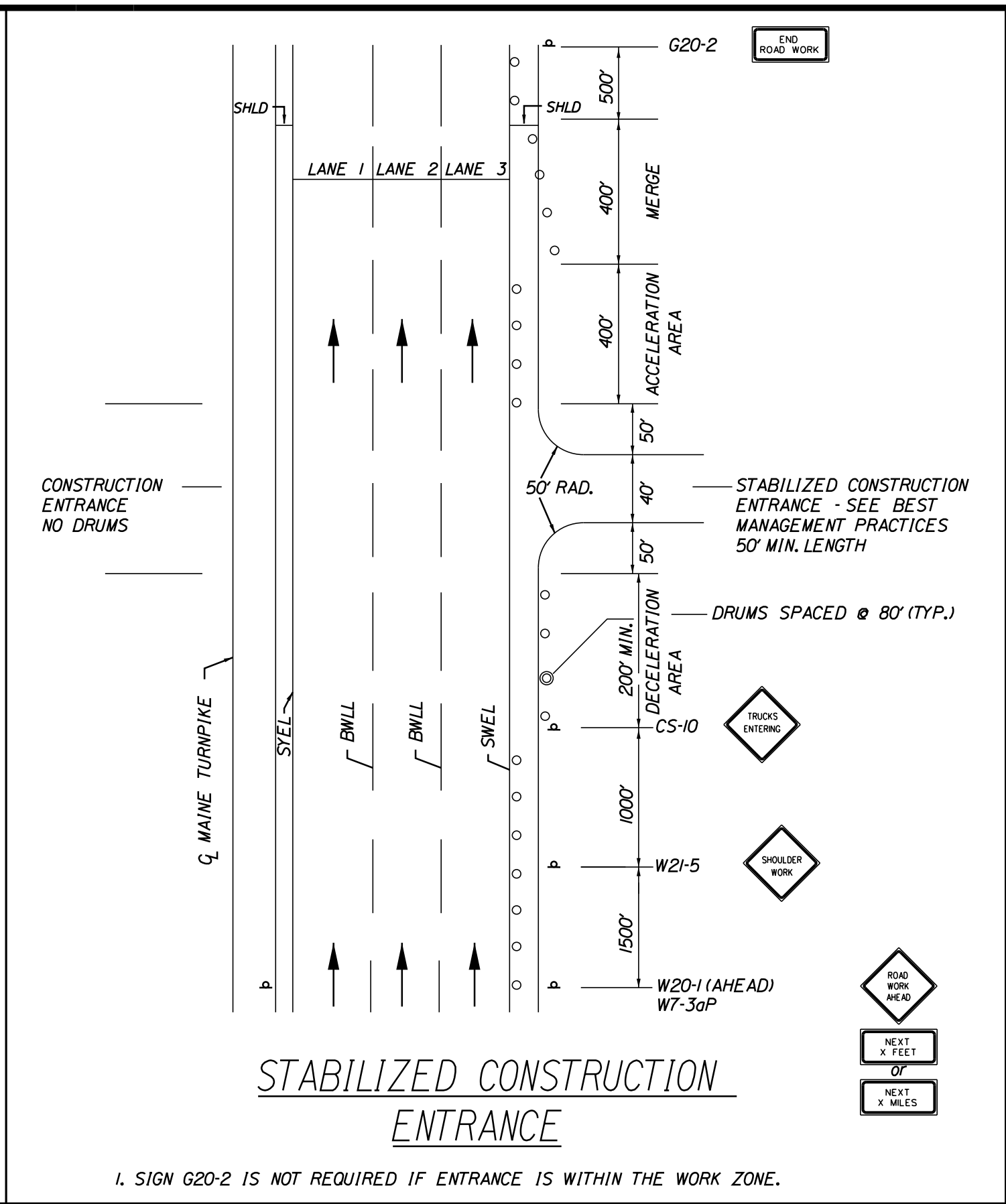
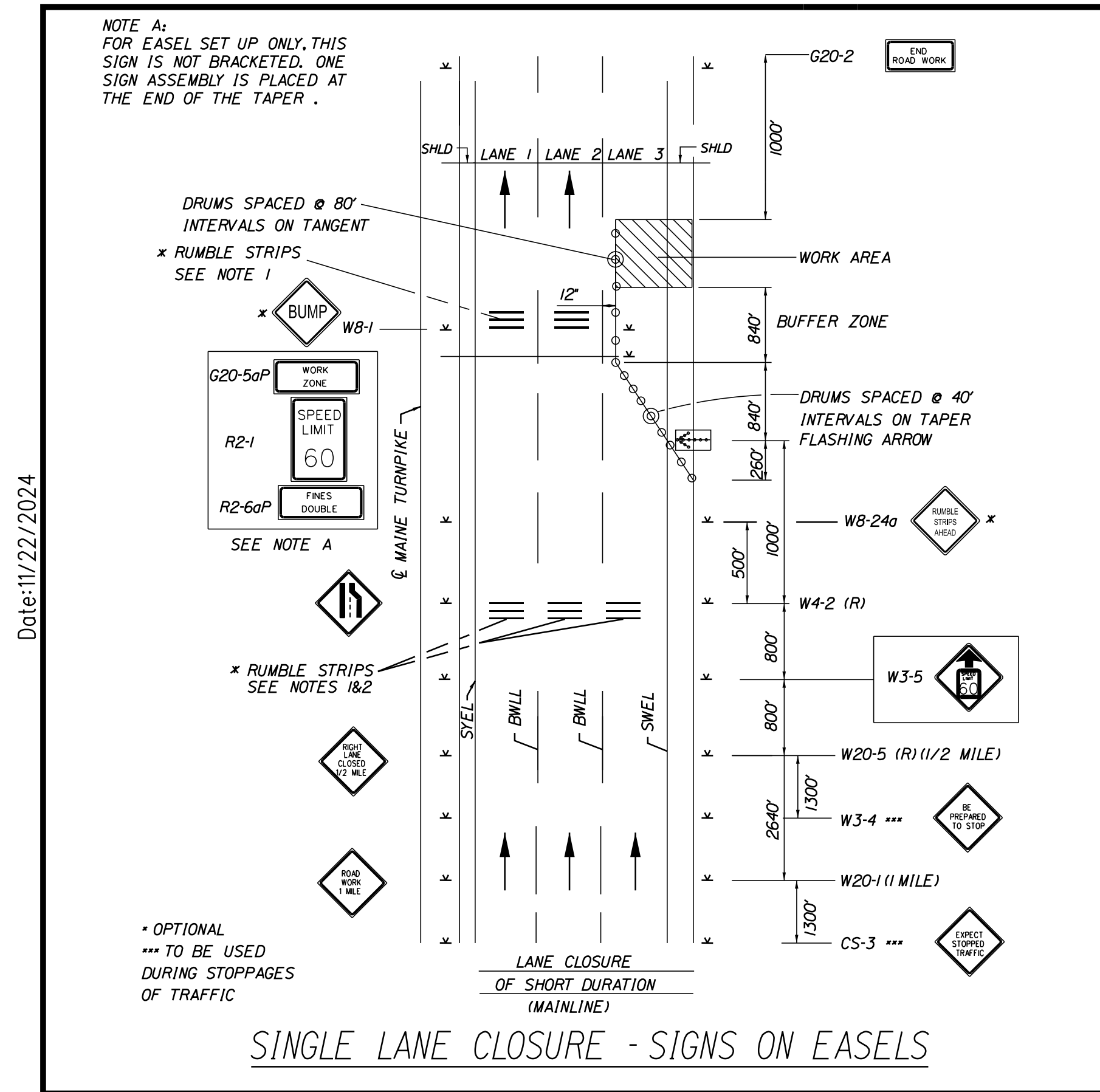
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

MTA PROJECT NO. 2025.04
 BRIDGE REPAIRS
 MAINTENANCE OF TRAFFIC DETAILS (2 OF 4)

VHB: 55807.00
 CONTRACT: 2025.04

SHEET NUMBER: 6
 6 OF 22



- WORK ZONE TRAFFIC CONTROL LAYOUT NOTES**
- 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.
 - 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.
 - THE CONTRACTOR SHALL REMOVE OR MASK WITH BLACK TAPE (EXCEPT ALONG THE TURNPIKE MAINLINE) ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD.
 - EXPOSED BARRIER ENDS ON THE MAINE TURNPIKE SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION.
 - SPEED LIMIT, STOP, YIELD AND EXIT SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT.
 - WORK ZONE SPEED LIMIT ASSEMBLY MAY BE REPLACED WITH AN AUTOMATED WORK ZONE SPEED LIMIT SIGN.
- ABBREVIATIONS FOR ALL M.O.T. PLANS**
- BWLL = BROKEN WHITE LANE LINE
SWEL = SOLID WHITE LANE LINE
SYEL = SOLID YELLOW LANE LINE
TBWLL = TEMPORARY BROKEN WHITE LANE LINE
TDWEL = TEMPORARY DOTTED WHITE EDGE LINE
TSWEL = TEMPORARY SOLID WHITE EDGE LINE
TSWLL = TEMPORARY SOLID WHITE LANE LINE
TSYCL = TEMPORARY SOLID YELLOW CENTER LINE
- TEMPORARY RUMBLE STRIP NOTES**
- IF RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:
* ADJACENT TO THE WORK ZONE (2 UNITS)
* UPSTREAM FROM THE TAPER FOR THE WORKZONE (3 UNITS)
* BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (5 UNITS)
W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION. ONLY ONE SET OF W8-240 SIGNS ARE REQUIRED FOR ANY OF THE ABOVE CONFIGURATIONS.
 - 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 W8-240 SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: M. Bowe			
By	Date	By	Date
Designed	MLG 11/22/24	Checked	MDS 11/22/24
Drawn	JAR 11/22/24	In Charge of	MEB 11/22/24

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500 Southborough Dr.
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South Portland, ME 04106
TEL (207) 889-3150
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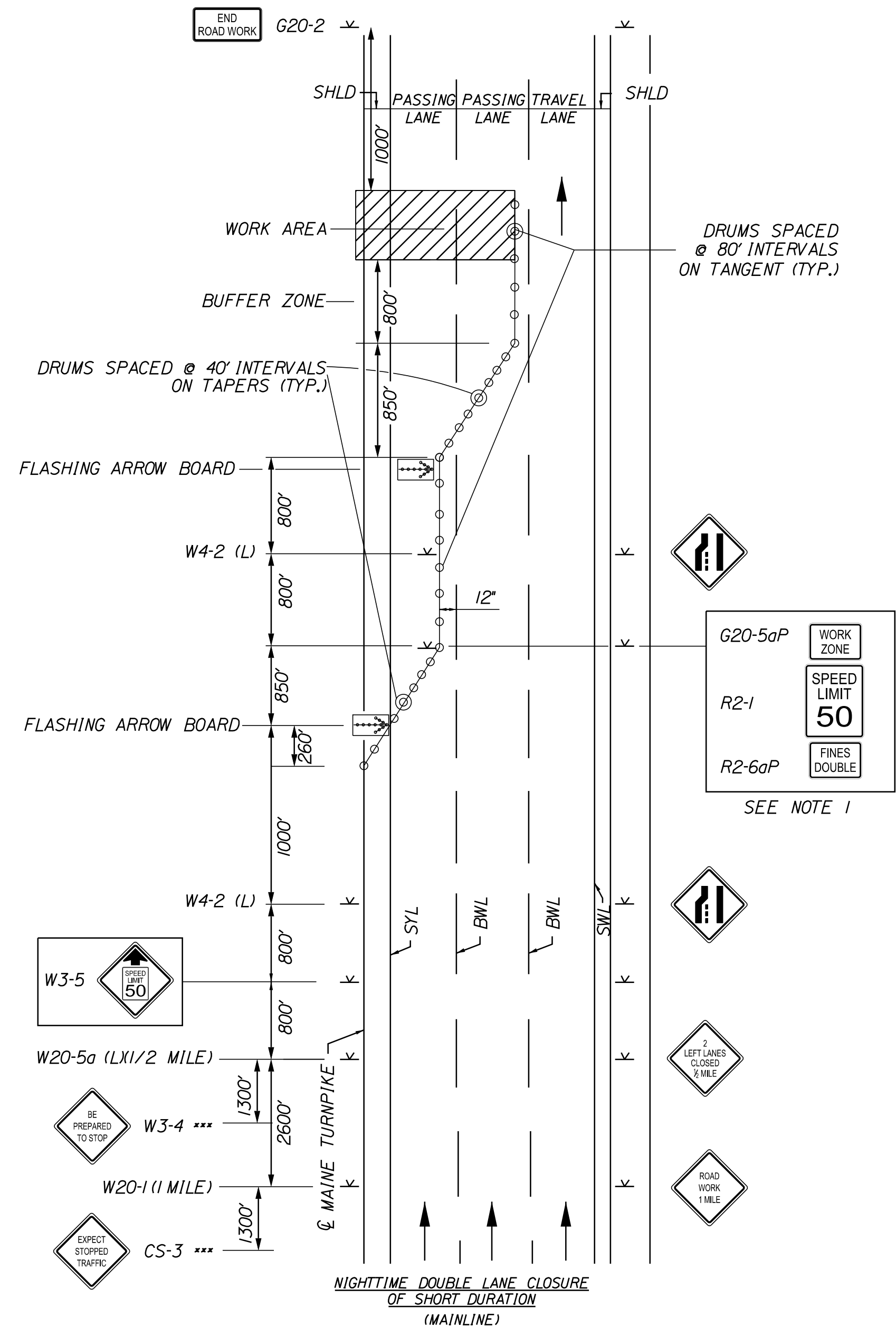
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

Date: 11/22/2024
Filename: ...MSTA\007_workzone_03.dgn

Date: 11/22/2024

Filename: ...MSTAV008_workzone_04.dgn

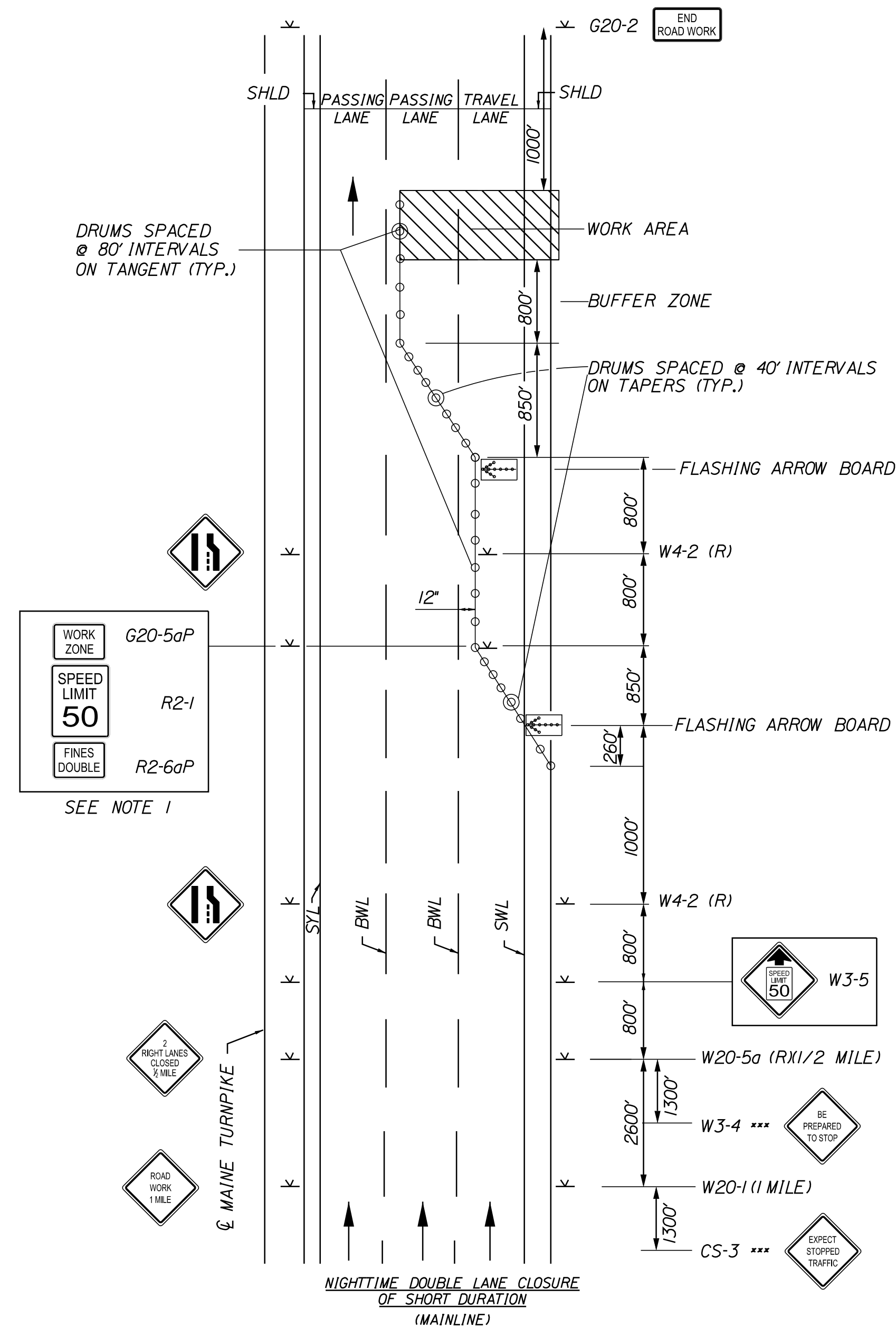


**DOUBLE LANE CLOSURE (LEFT)
SIGNS ON EASELS**

1. For easel set up only, this sign is not bracketed. One sign assembly is placed at the end of the taper. Signs may be split onto two easels.

GENERAL NOTES

- For sign details, see construction sign summary.
- When truck mounted attenuators are included in the contract (incidental or pay item), they shall not be located in the buffer zone.



**DOUBLE LANE CLOSURE (RIGHT)
SIGNS ON EASELS**

1. For easel set up only, this sign is not bracketed. One sign assembly is placed at the end of the taper. Signs may be split onto two easels.

LEGEND

- Construction Sign on Post Support
- Construction Sign on Easel
- Drums/Channelizing Devices
- Temporary Concrete Barrier, Type 1
- Temporary Impact Attenuator
- Work Area
- Type 3 Barricade with Sign
- Type 3 Barricade

Scale: NOT TO SCALE			
Designed by:			
No.	Revision	By	Date
CONSULTANT PROJECT MANAGER: M. Bowe			
	By	Date	By
	MLG	11/22/24	Checked
	JAR	11/22/24	In Charge of
			MDS
			MEB
			11/22/24

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

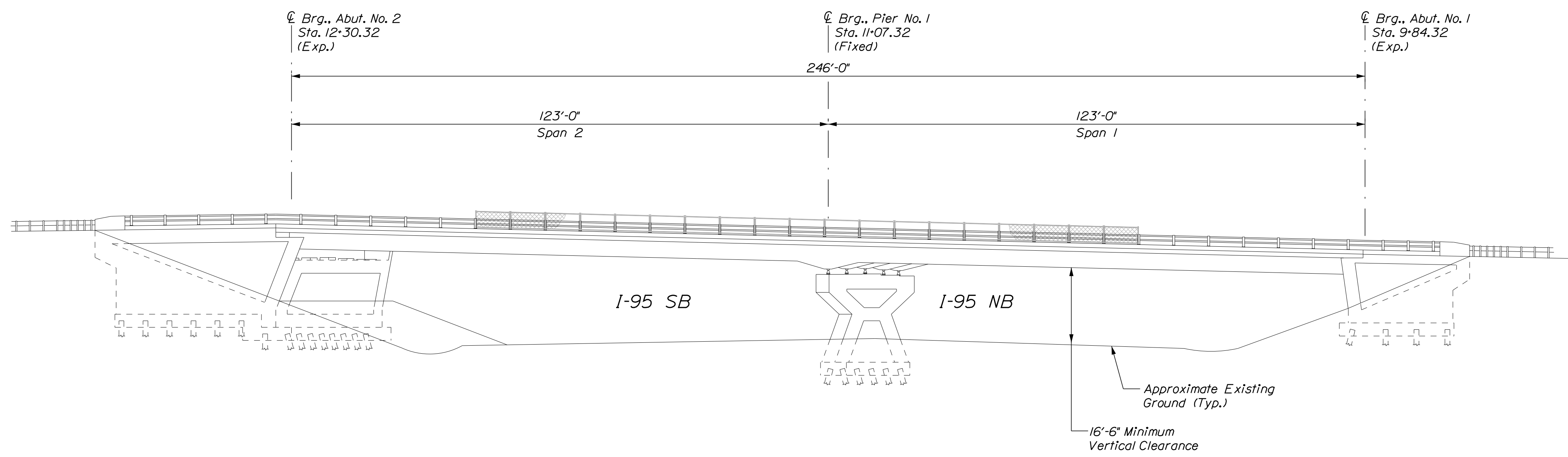
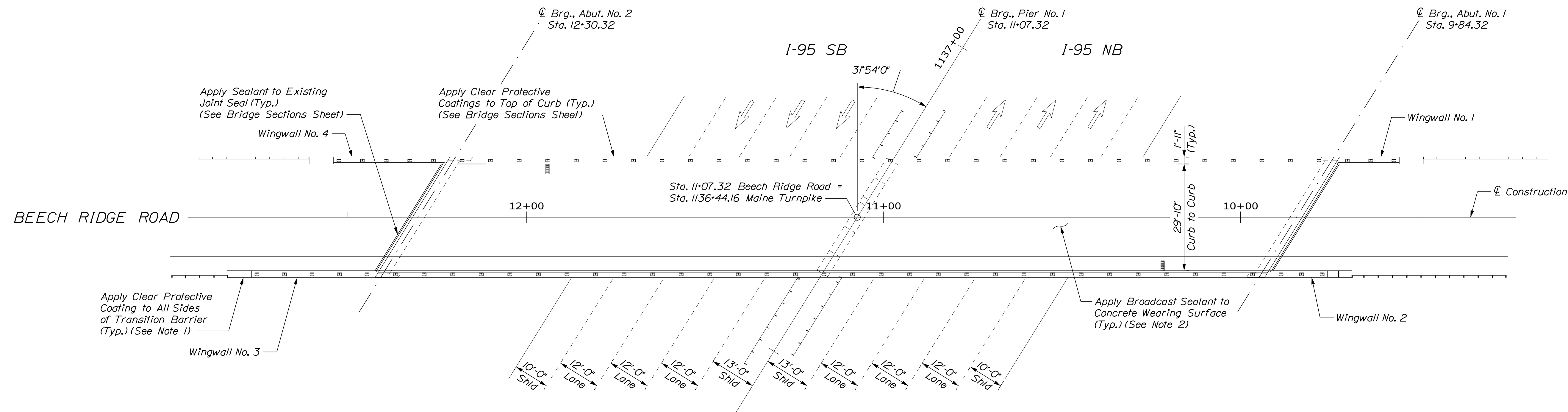
MTA PROJECT NO. 2025.04
BRIDGE REPAIRS
MAINTENANCE OF TRAFFIC DETAILS (4 OF 4)

VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 8
8 OF 22

Date: 11/22/2024

Filename: ... \009_plan&elev_01.dgn



- NOTES**
1. Clear Protective Coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.
 2. Broadcast Sealant shall be paid for under Item 515.203, Broadcast Sealant for Concrete Surfaces.

Scale: 1/16" = 1'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	KDW	11/22/24	In Charge of	MEB	11/22/24

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THE GOLD STAR MEMORIAL HIGHWAY

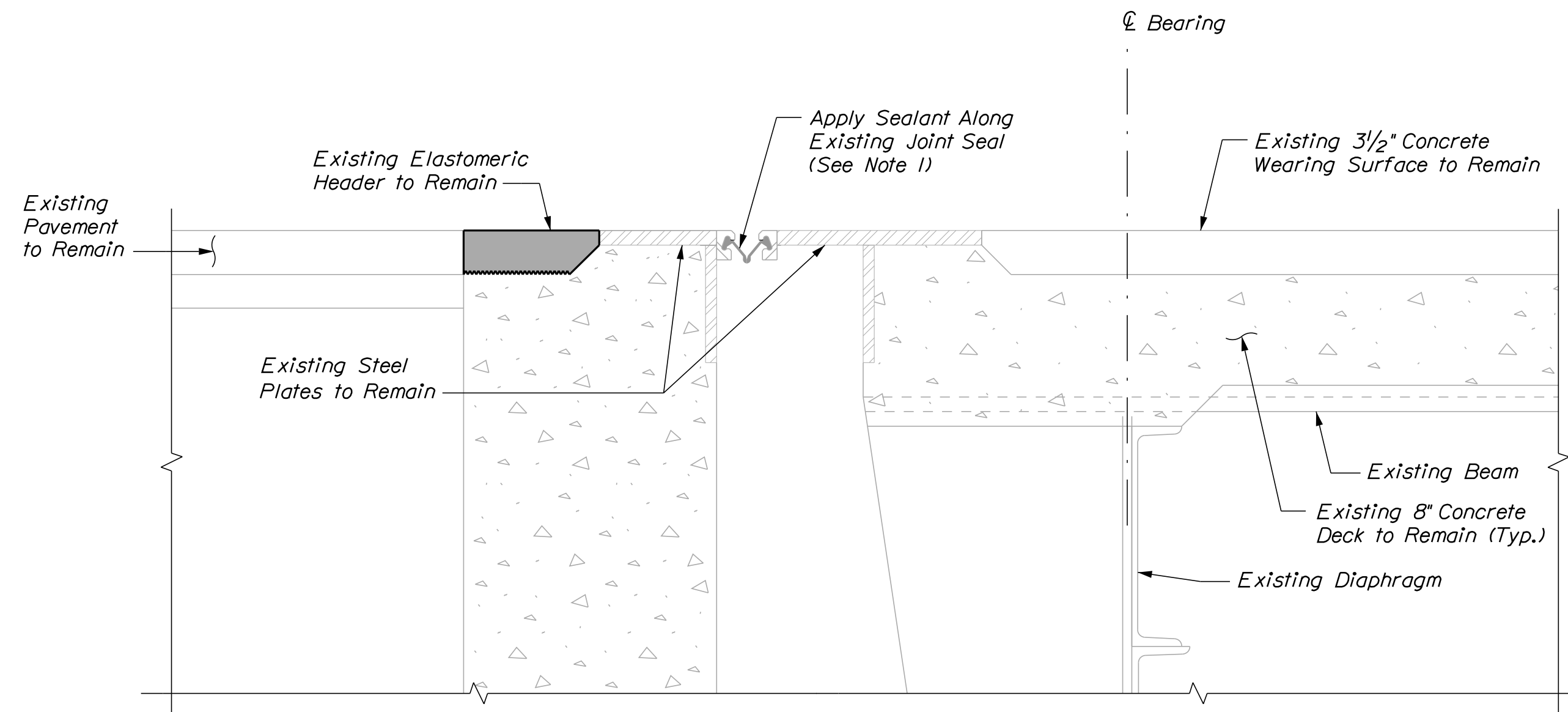
MTA PROJECT MANAGER: Kristi Van Ooyen, PE

MTA PROJECT NO. 2025.04
BEECH RIDGE ROAD UNDERPASS
AT MM 4.80 IN YORK
BRIDGE PLAN AND ELEVATION

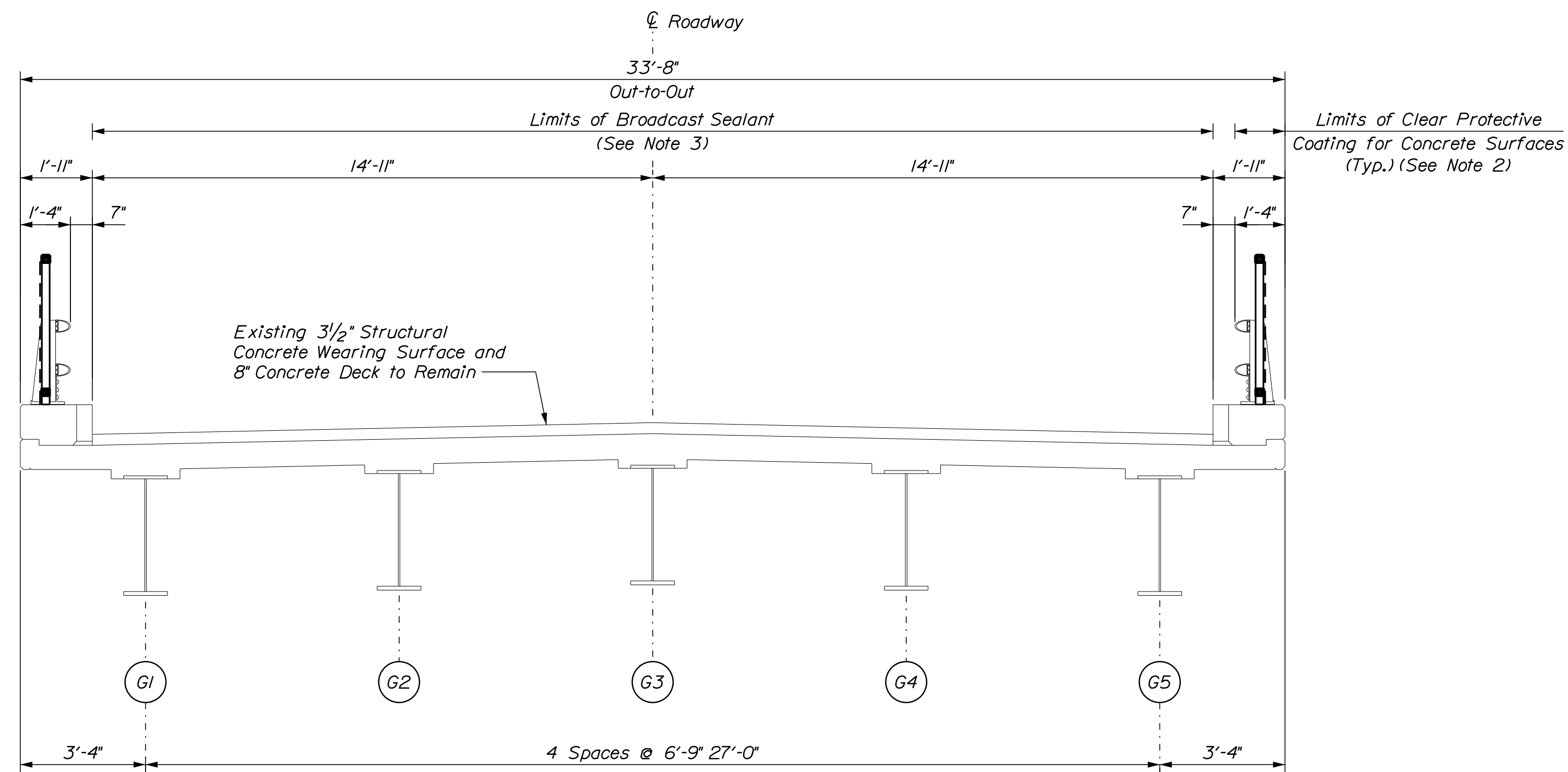
VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 9
9 OF 22

Date: 11/22/2024



SECTION AT EXPANSION JOINT AT ABUTMENTS
Not to Scale



SUPERSTRUCTURE TYPICAL SECTION
Scale: 3/8" = 1'-0"

NOTES


1. Joint sealant shall be applied the full length of the joint, including into the curb. The existing joint seal shall be cleaned and inspected by the Resident before applying sealant. The Contractor shall ensure no sealant leaks through any tears in the existing joint seal. Sealant for joint seal shall be paid under Item 520.40, Joint Seal Repair. See Special Provision 520 for additional details.
2. Clear Protective Coating shall be paid under Item 515.202, Clear Protective Coating for Concrete Surfaces.
3. Broadcast Sealant shall be paid for under Item 515.203, Broadcast Sealant for Concrete Surfaces.

Filename: ...010_BridgeTyp.dgn

Scale: 3/8" = 1'-0"

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	KDW	11/22/24	In Charge of	MEB	11/22/24

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**THE GOLD STAR
MEMORIAL HIGHWAY**

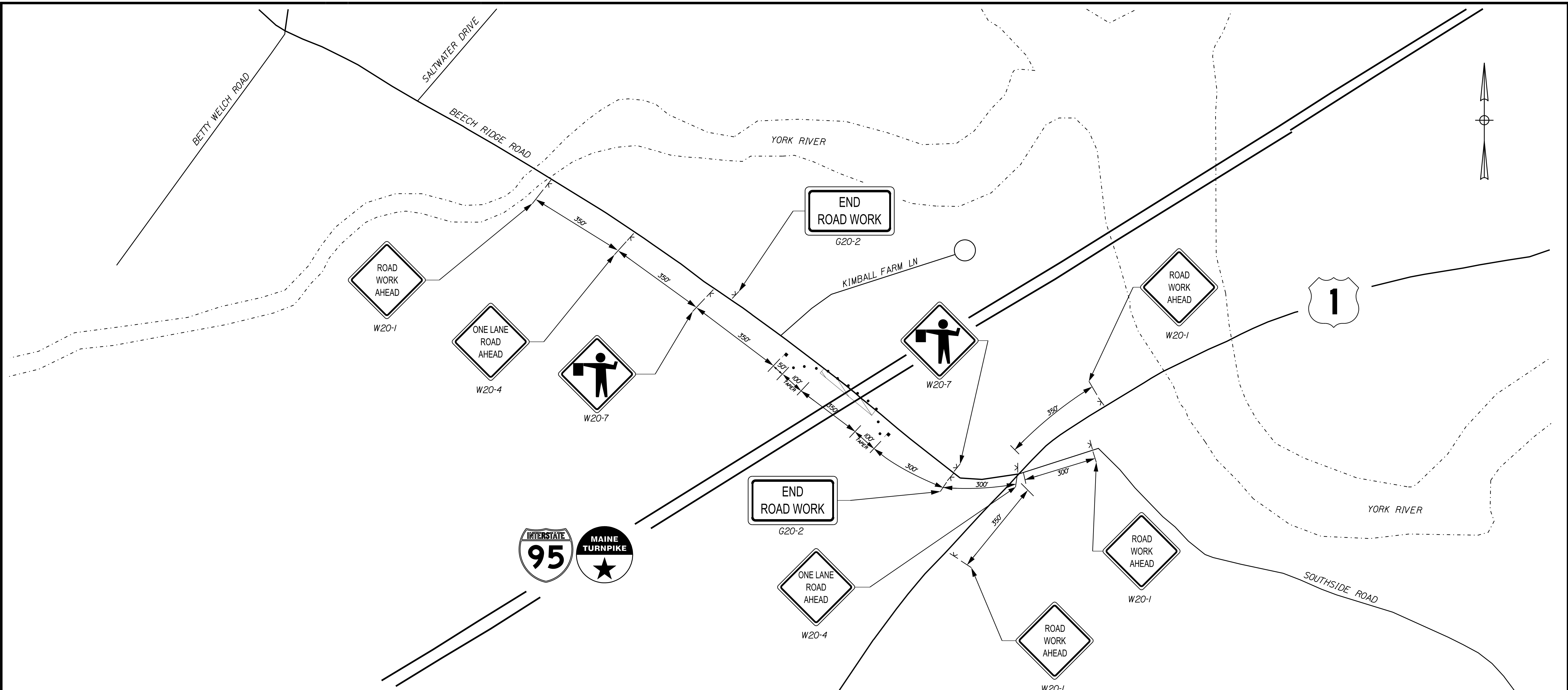
MTA PROJECT MANAGER: Kristi Van Ooyen, PE

MTA PROJECT NO. 2025.04
BEECH RIDGE ROAD UNDERPASS
AT MM 4.80 IN YORK
BRIDGE SECTIONS

VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 10
10 OF 22

Date: 11/22/2024



CONSTRUCTION SIGN SUMMARY			
Sign	Text Dimensions (Inches)		Quantity and Color
	Letter Height	Vertical Spacing	
G20-2 	SHSB		2 - Black on Orange
W20-1 	SHSB		4 - Black on Orange
W20-4 	SHSB		2 - Black on Orange

SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.

CONSTRUCTION SIGN SUMMARY			
Sign	Text Dimensions (Inches)		Quantity and Color
	Letter Height	Vertical Spacing	
W20-7 	SHSB		2 - Black on Orange

SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.

NOTE:
1. TRAFFIC CONTROL PLAN FLAGGER POSITIONS AND TAPERS FOR EASTBOUND LANE CLOSURE. SIMILAR LAYOUT FOR WESTBOUND LANE CLOSURE.

LEGEND	
	Construction Sign On Easel
	Cone/Channelizing Device
	Work Area
	Flagger Position

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: M. Bove			
By	Date	By	Date
Designed	MLG 11/22/24	Checked	MDS 11/22/24
Drawn	BJW 11/22/24	In Charge of	MEB 11/22/24

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

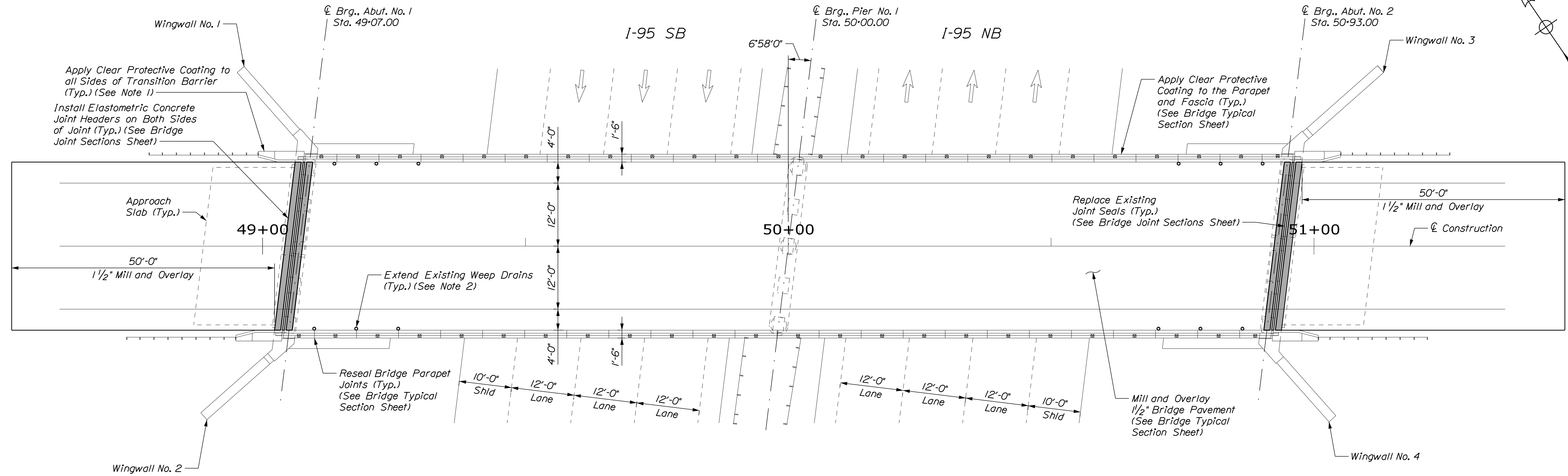
MTA PROJECT NO. 2025.04
BEECH RIDGE ROAD UNDERPASS
AT MM 4.80 IN YORK
BEECH RIDGE ROAD
TRAFFIC CONTROL PLAN

VHB: 55807.00
CONTRACT: 2025.04

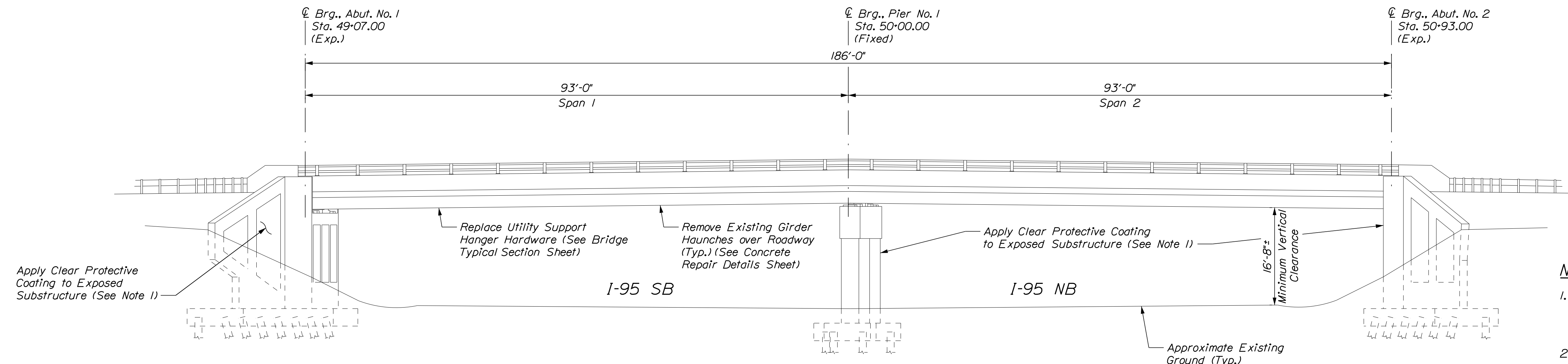
SHEET NUMBER: 11
11 OF 22

Filename: ...011_FlaggingPlan.dgn

Date: 11/22/2024



PLAN
 Scale: 3/32" = 1'-0"



ELEVATION
 Scale: 3/32" = 1'-0"

- NOTES**
- Clear Protective Coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.
 - Extending existing weep drains shall be paid for under Item 502.7011, Weep Drain Extensions. See Concrete Repair Typical Details sheet.

Scale: 20 14 30
 3/32" = 1'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date	Checked	By	Date
Designed	HMR	11/22/24		HNH	11/22/24
Drawn	KDW	11/22/24	In Charge of	MEB	11/22/24

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

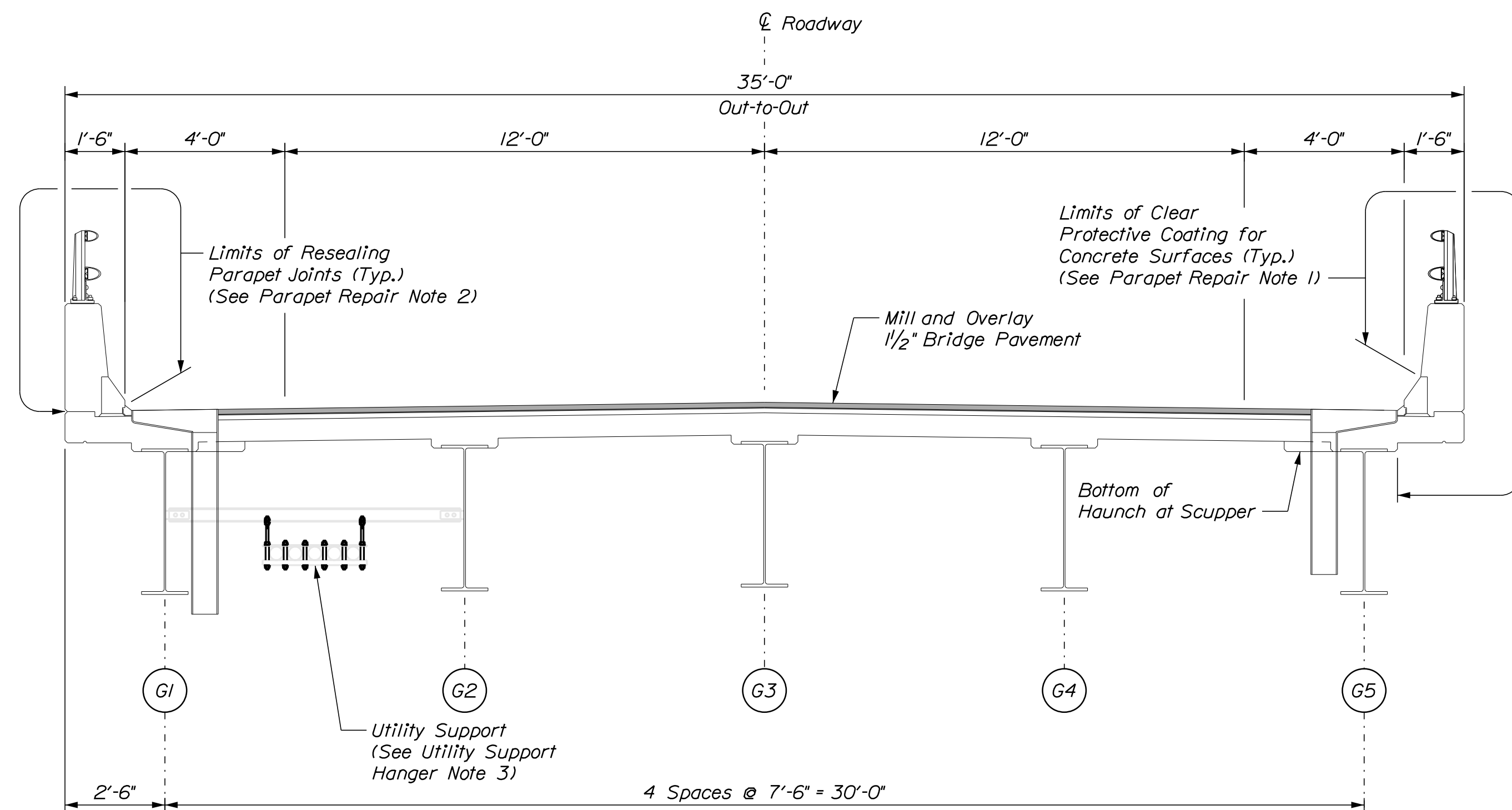
MTA PROJECT NO. 2025.04
 NEW COUNTY ROAD UNDERPASS
 AT MM 34.40 IN SACO
 BRIDGE PLAN AND ELEVATION

VHB: 55807.00
 CONTRACT: 2025.04

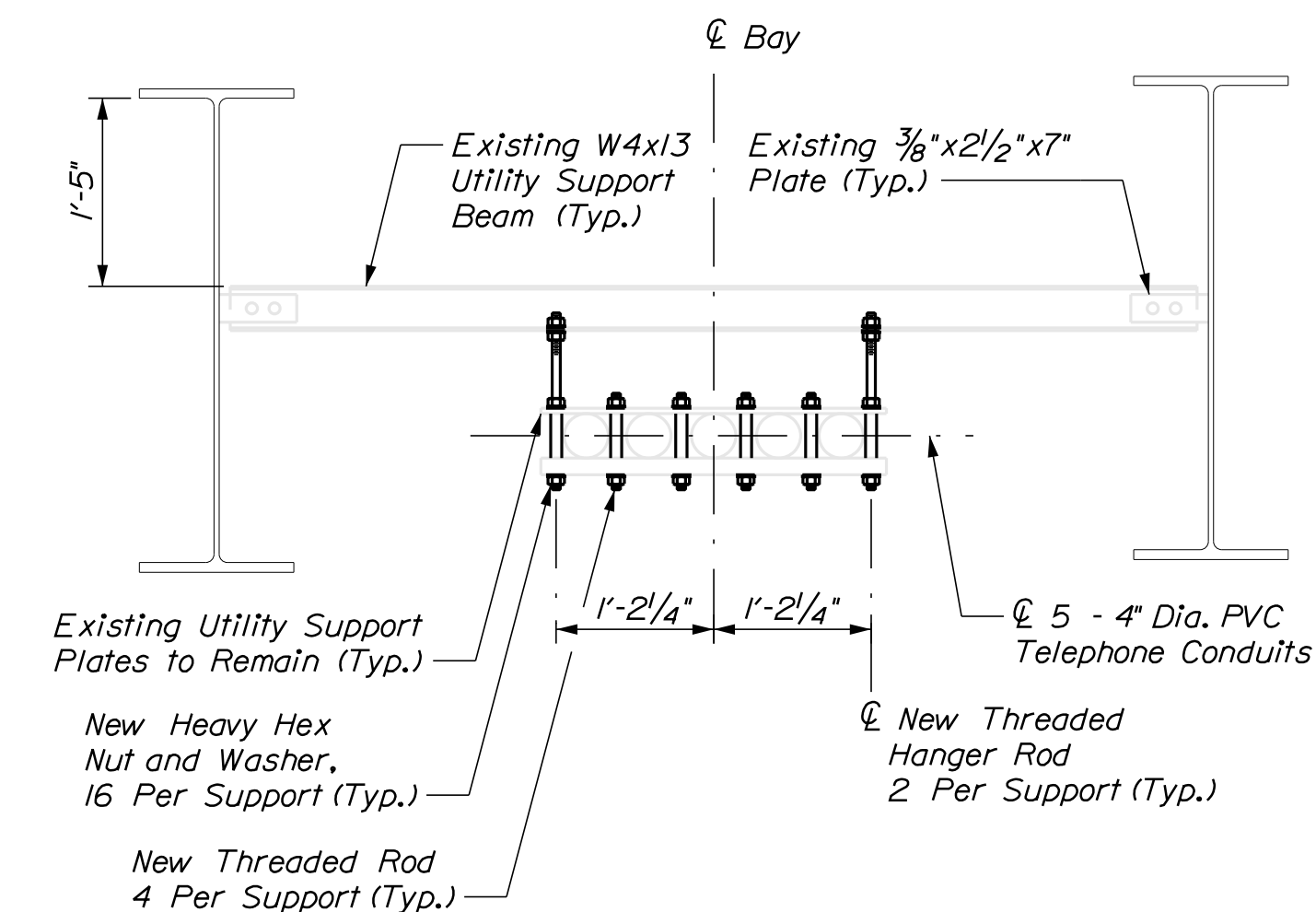
SHEET NUMBER: 12
 12 OF 22

Filename: ...012_plan&elev_01.dgn

Date: 11/22/2024



SUPERSTRUCTURE TYPICAL SECTION
Scale: 3/8" = 1'-0"



UTILITY SUPPORT DETAIL
(Looking East)
(24 Total Utility Supports)
Scale: 3/4" = 1'-0"

UTILITY SUPPORT HANGER NOTES

- The utility support hardware shall be replaced at all utility support hangers. The existing composite support hardware shall be re-used. The conduit shall be temporarily supported at the location being replaced. The Contractor shall design and submit an installation and temporary support plan at least three weeks prior to performing this work. The Contractor shall be fully responsible for replacing the existing pipe hardware if damaged during removal and re-installation.
- Contractor shall field verify threaded rod lengths prior to rod and hardware procurement. Field cutting new threaded rod will not be permitted.
- All labor, equipment, and materials necessary to repair the utility conduit hangers shall be paid for under Item 830.17, Utility Conduit Hanger System Hardware.

MATERIAL NOTE

- All utility support hardware shall consist of 3/4" dia. Grade A36 threaded rod, 1/4" Grade A563 heavy hex locking nuts and associated washers. All hardware shall be hot dipped galvanized.

PARAPET REPAIR NOTES

- Limits of clear protective coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.
- Reseal all parapet joints as directed by the Resident including the joint between the parapet and top of curb. Joint sealant shall be from the MaineDOT Qualified Product List for Silicone and Polyurethane Joint Sealant. Resealing joints shall be paid under Item 518.48, Reseal Joints.

Filename: ... \013_BridgeTyp_01.dgn

Scale: 1" = 7'-0" (3/8" = 1'-0")

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: M. Bowe					
	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	KDW	11/22/24	In Charge of	MEB	11/22/24

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South Portland, ME 04106
TEL (207) 889-3150
FAX (207) 253-5596

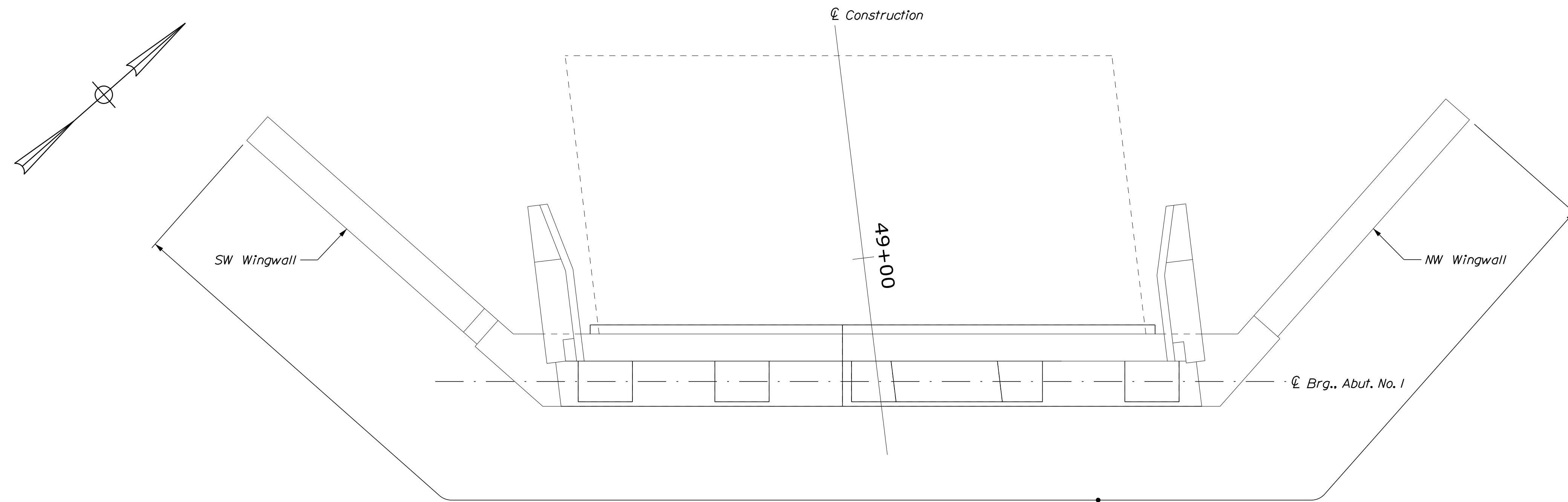
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

MTA PROJECT NO. 2025.04
NEW COUNTY ROAD UNDERPASS
AT MM 34.40 IN SACO
BRIDGE TYPICAL SECTION

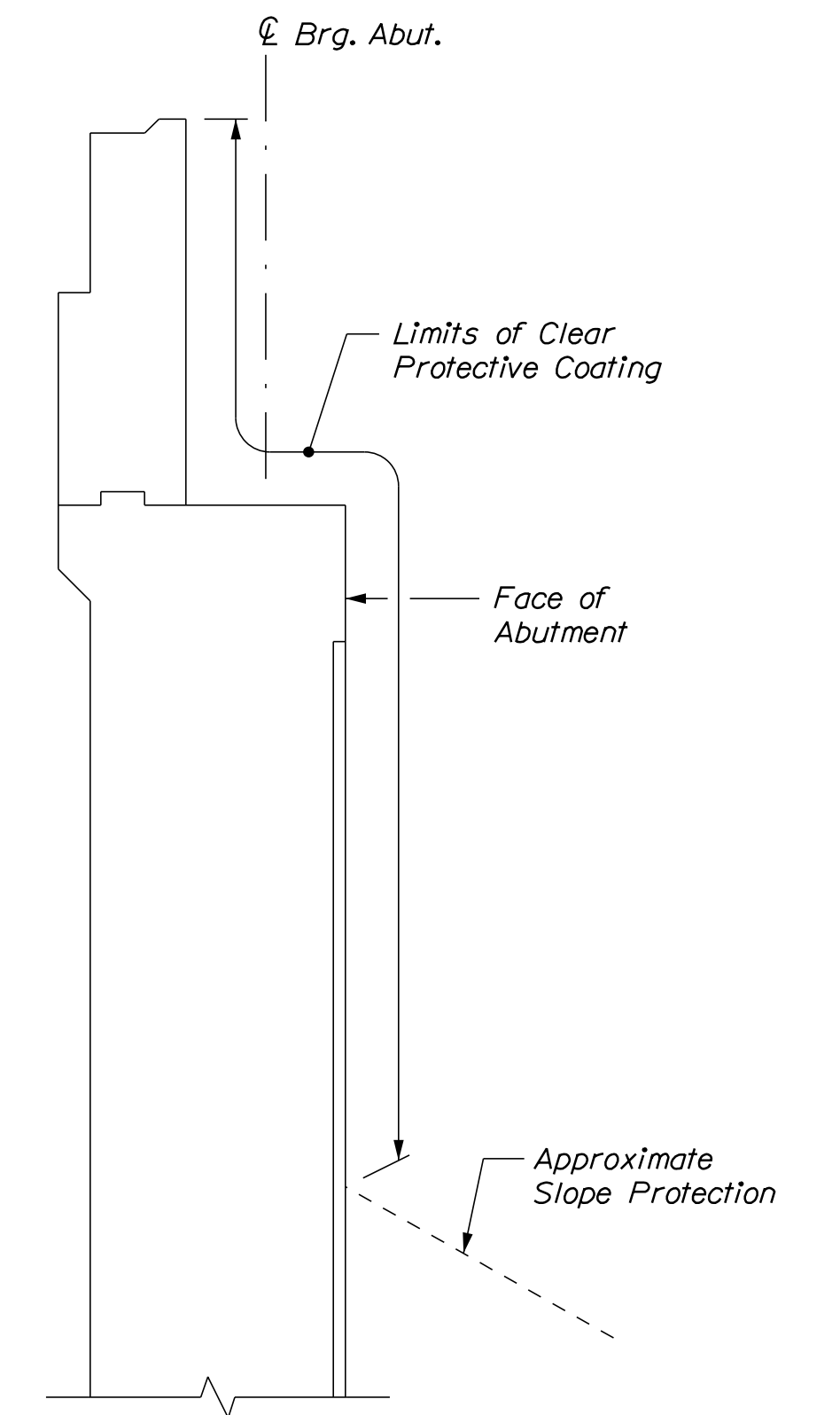
VHB: 55807.00 SHEET NUMBER: 13
CONTRACT: 2025.04 13 OF 22

Date: 11/22/2024

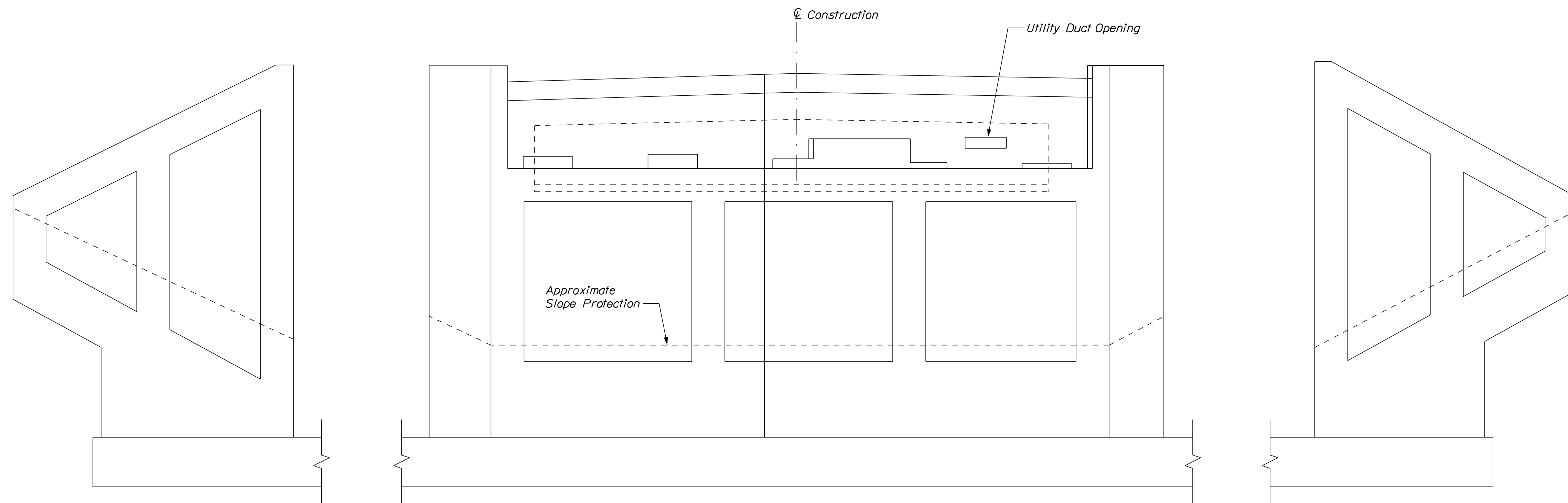


PLAN
(Abutment No. 1 Shown, Abutment No. 2 Similar)
Scale: 1/4" = 1'-0"

Limits of Clear Protective Coating
(See Note 1)



TYPICAL ABUTMENT SECTION
(Abutment No. 1 Shown, Abutment No. 2 Similar)
Not to Scale



ELEVATION SW WINGWALL
(Abutment No. 1 Shown, Abutment No. 2 Similar)
Scale: 1/4" = 1'-0"

ELEVATION
(Abutment No. 1 Shown, Abutment No. 2 Similar)
Scale: 1/4" = 1'-0"

ELEVATION NW WINGWALL
(Abutment No. 1 Shown, Abutment No. 2 Similar)
Scale: 1/4" = 1'-0"

NOTE

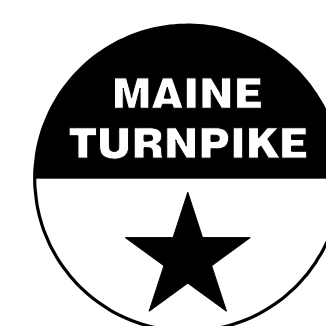
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Filename: ...014_Abut_01.dgn

Scale: 1/4" = 1'-0"			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: M. Bowe					
	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	KDW	11/22/24	In Charge of	MEB	11/22/24

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

MTA PROJECT NO. 2025.04
NEW COUNTY ROAD UNDERPASS
AT MM 34.40 IN SACO
ABUTMENT NO. 1 COATING

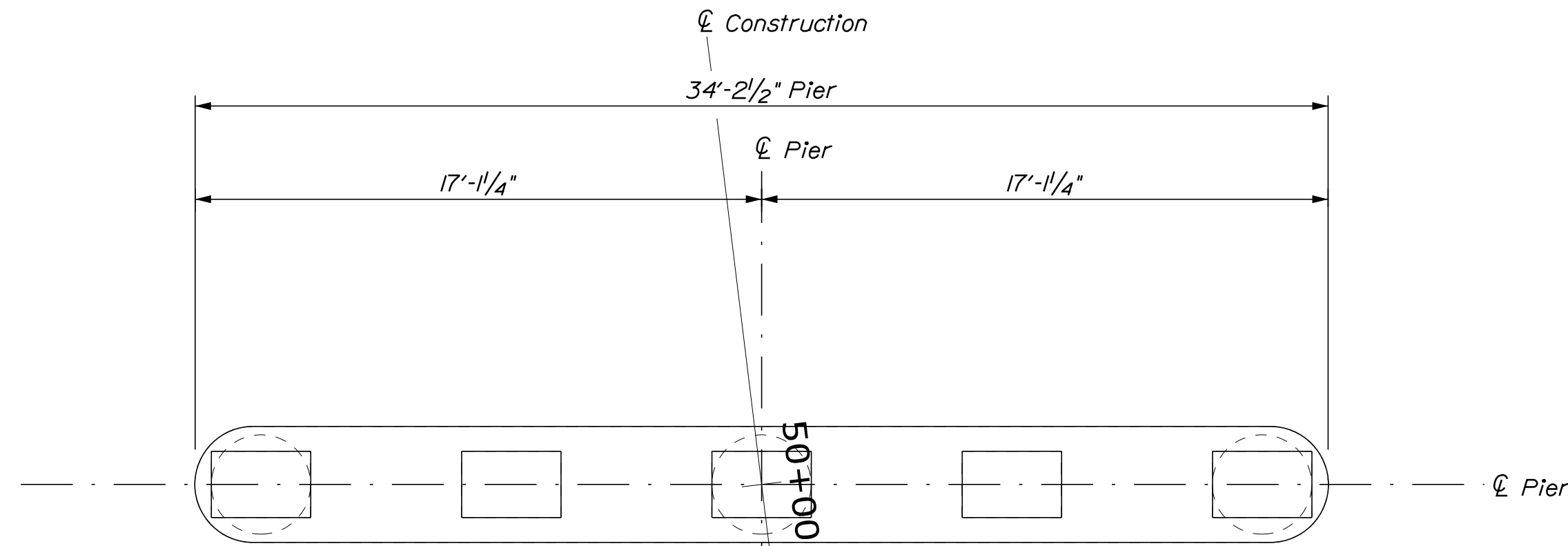
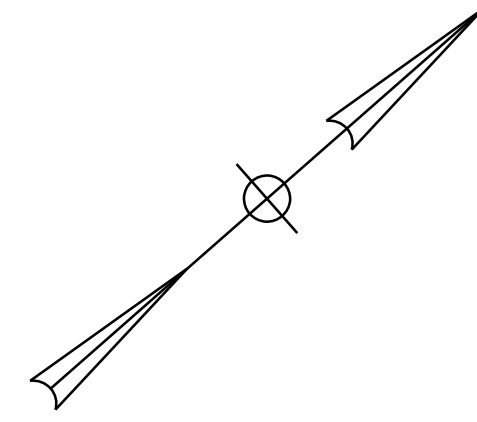
VHB: 55807.00

CONTRACT: 2025.04

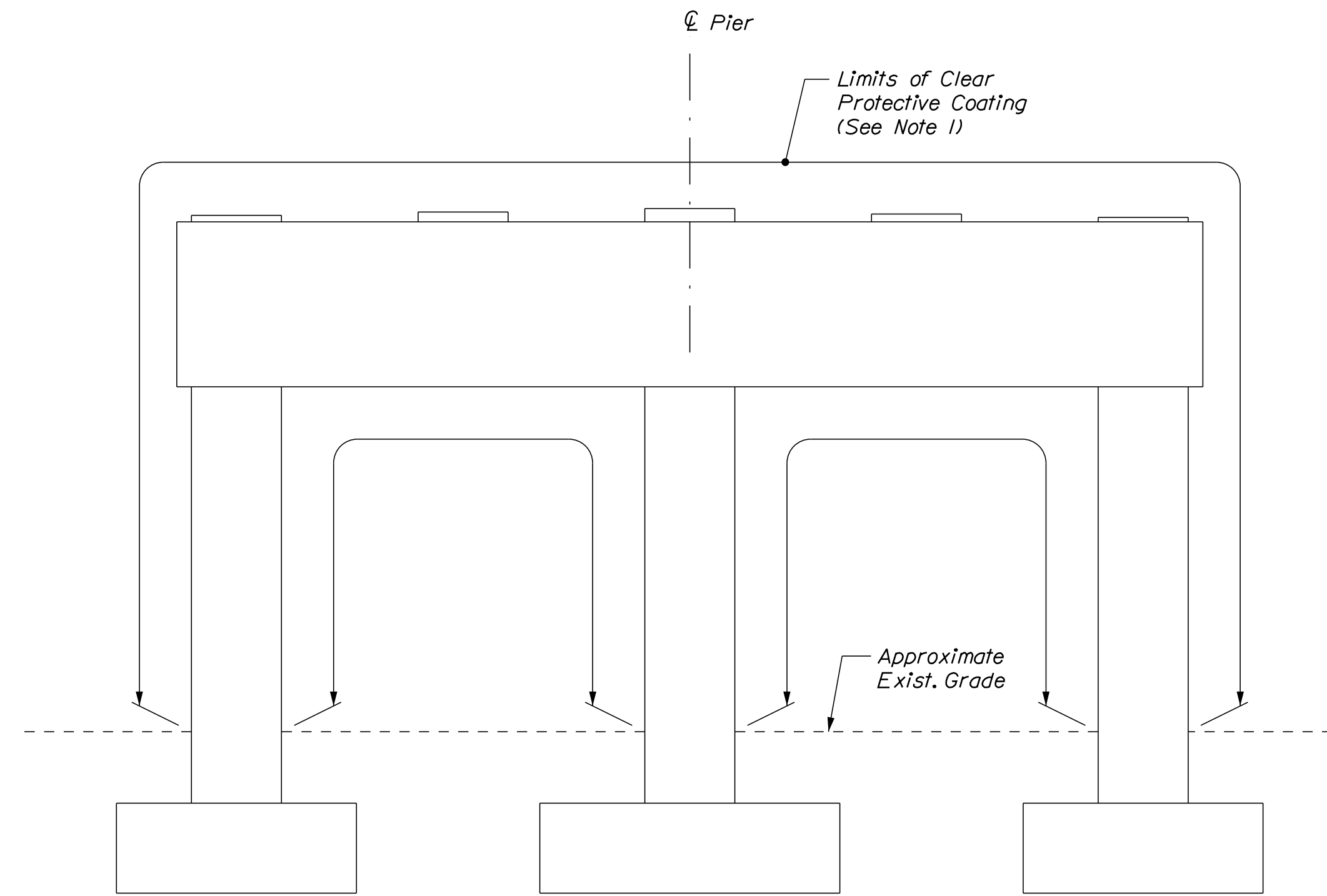
SHEET NUMBER: 14

14 OF 22

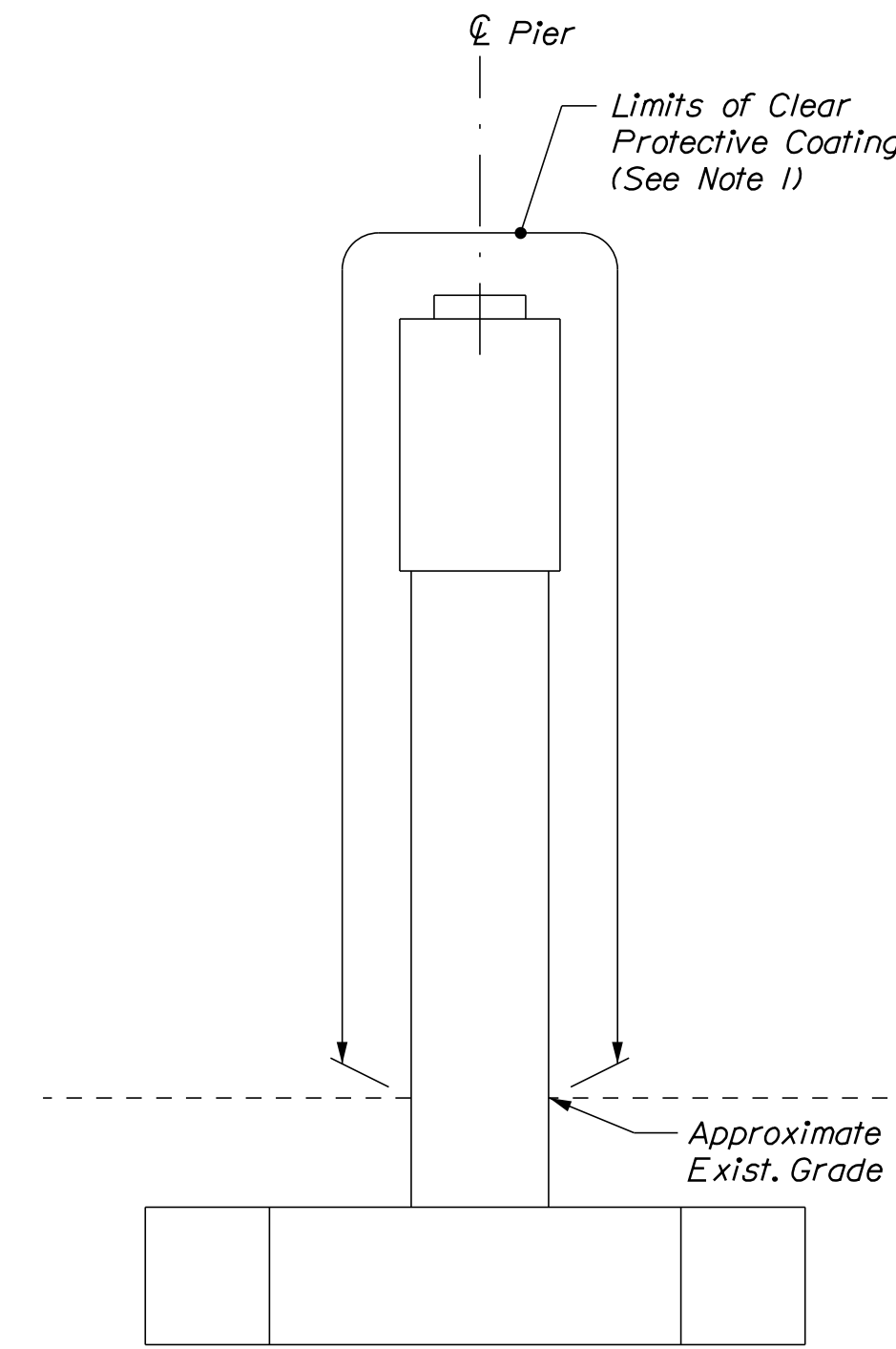
Date: 11/22/2024



PLAN
Scale: 1/4" = 1'-0"



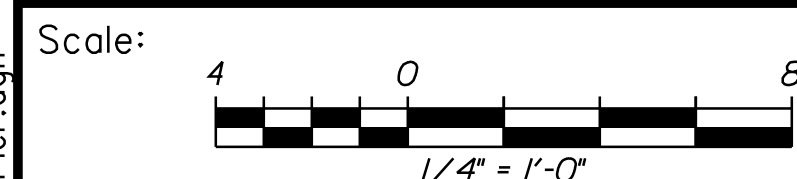
ELEVATION
Scale: 1/4" = 1'-0"



SIDE VIEW
Scale: 1/4" = 1'-0"

NOTE

1. Clear Protective Coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.

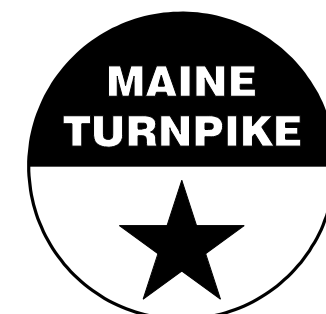


No.	Revision	By	Date

Designed by:



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Suite 105B
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2025.04
NEW COUNTY ROAD UNDERPASS
AT MM 34.40 IN SACO
PIER COATING

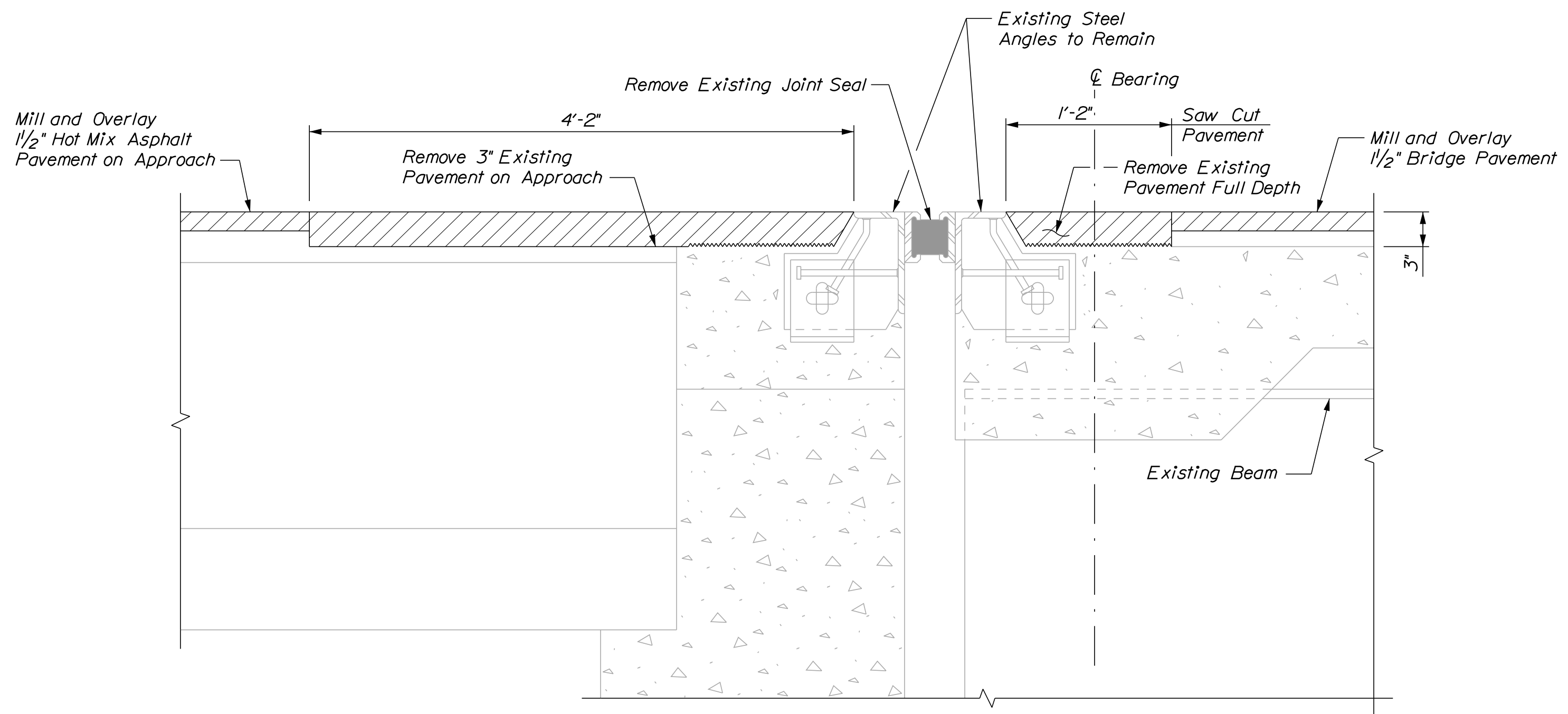
CONSULTANT PROJECT MANAGER: M. Bowe					
	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	KDW	11/22/24	In Charge of	MEB	11/22/24

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

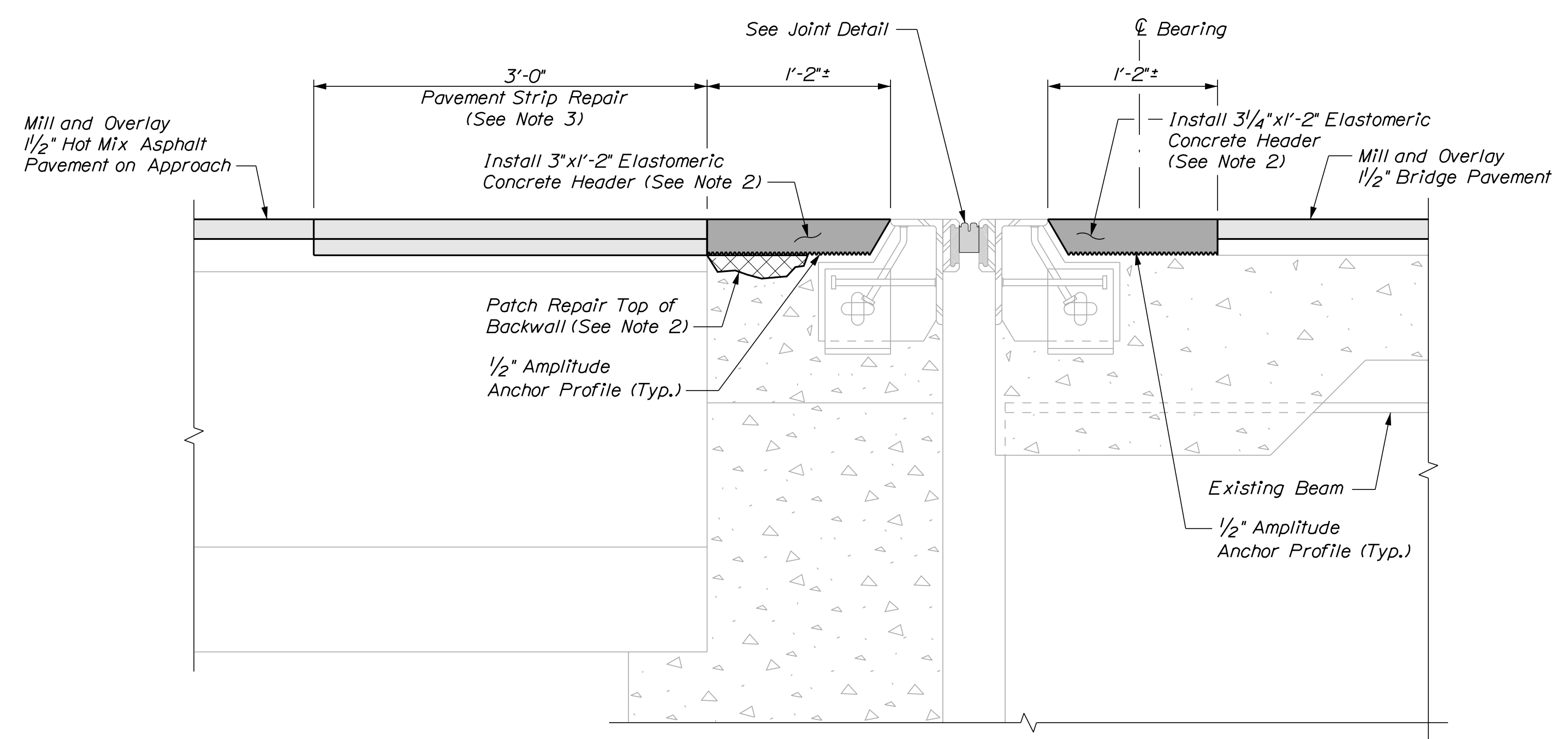
VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 15
15 OF 22

Date: 11/22/2024

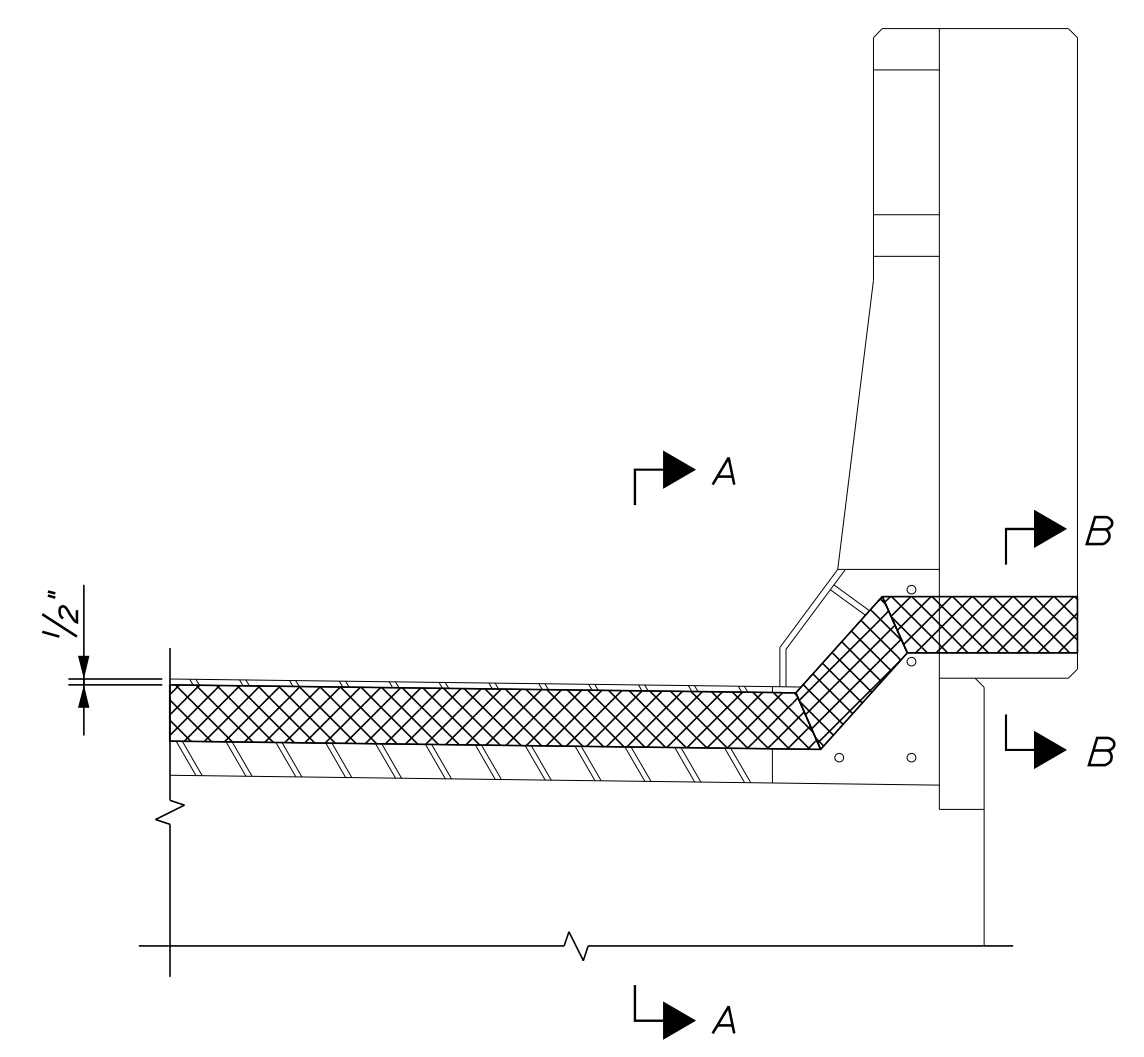


EXISTING EXPANSION JOINT SECTION

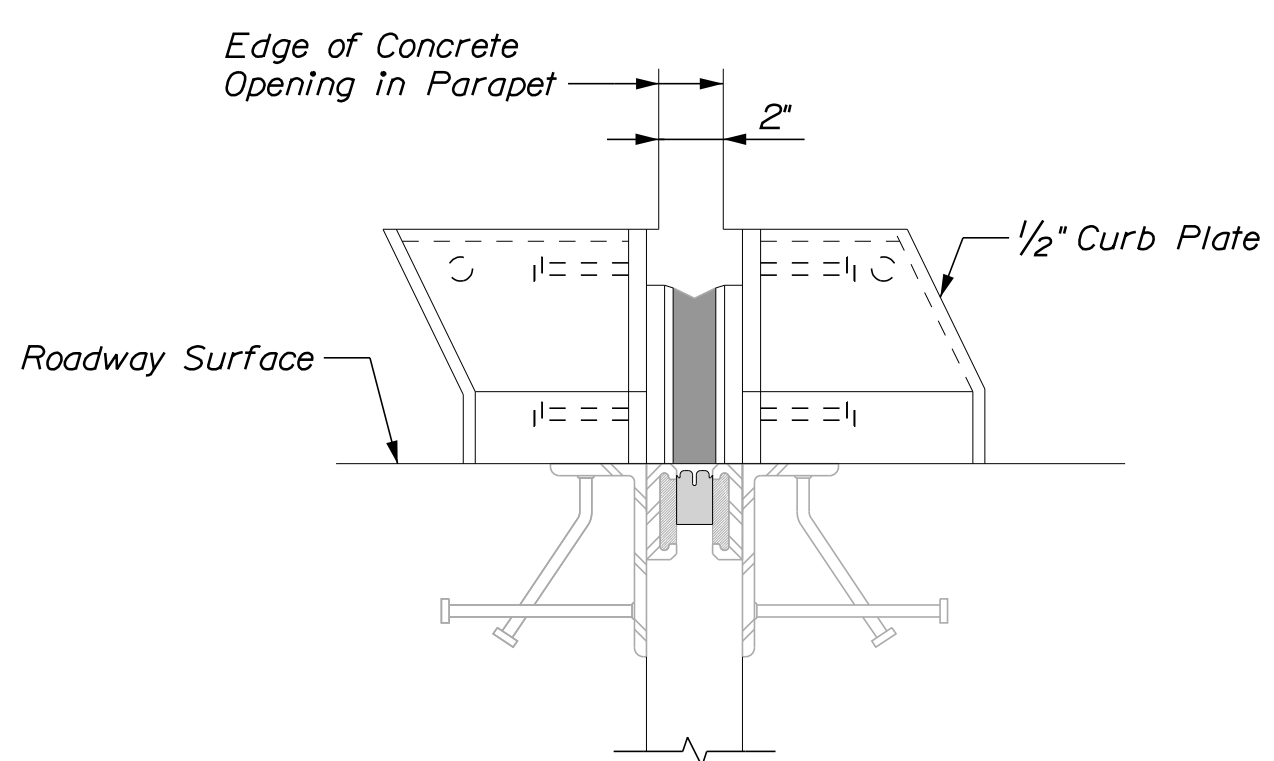


PROPOSED EXPANSION JOINT SECTION

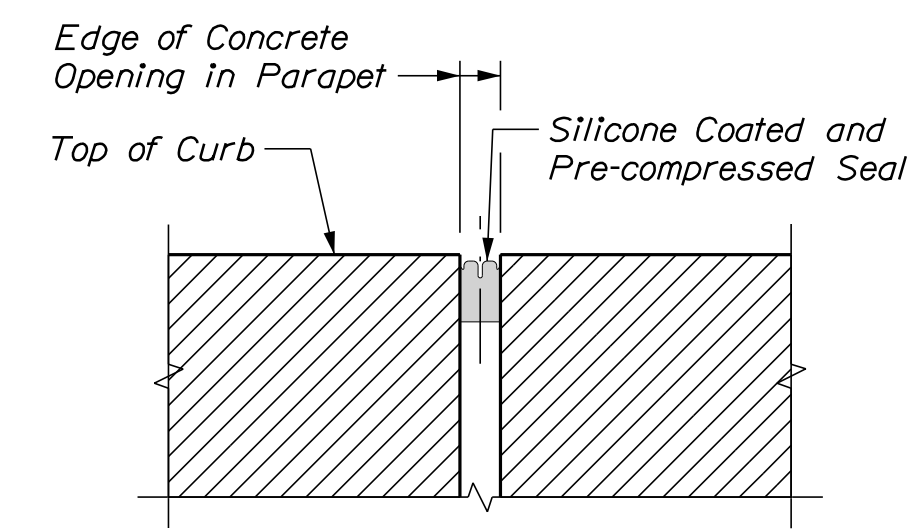
SECTIONS AT EXPANSION JOINTS AT ABUTMENTS
Not to Scale



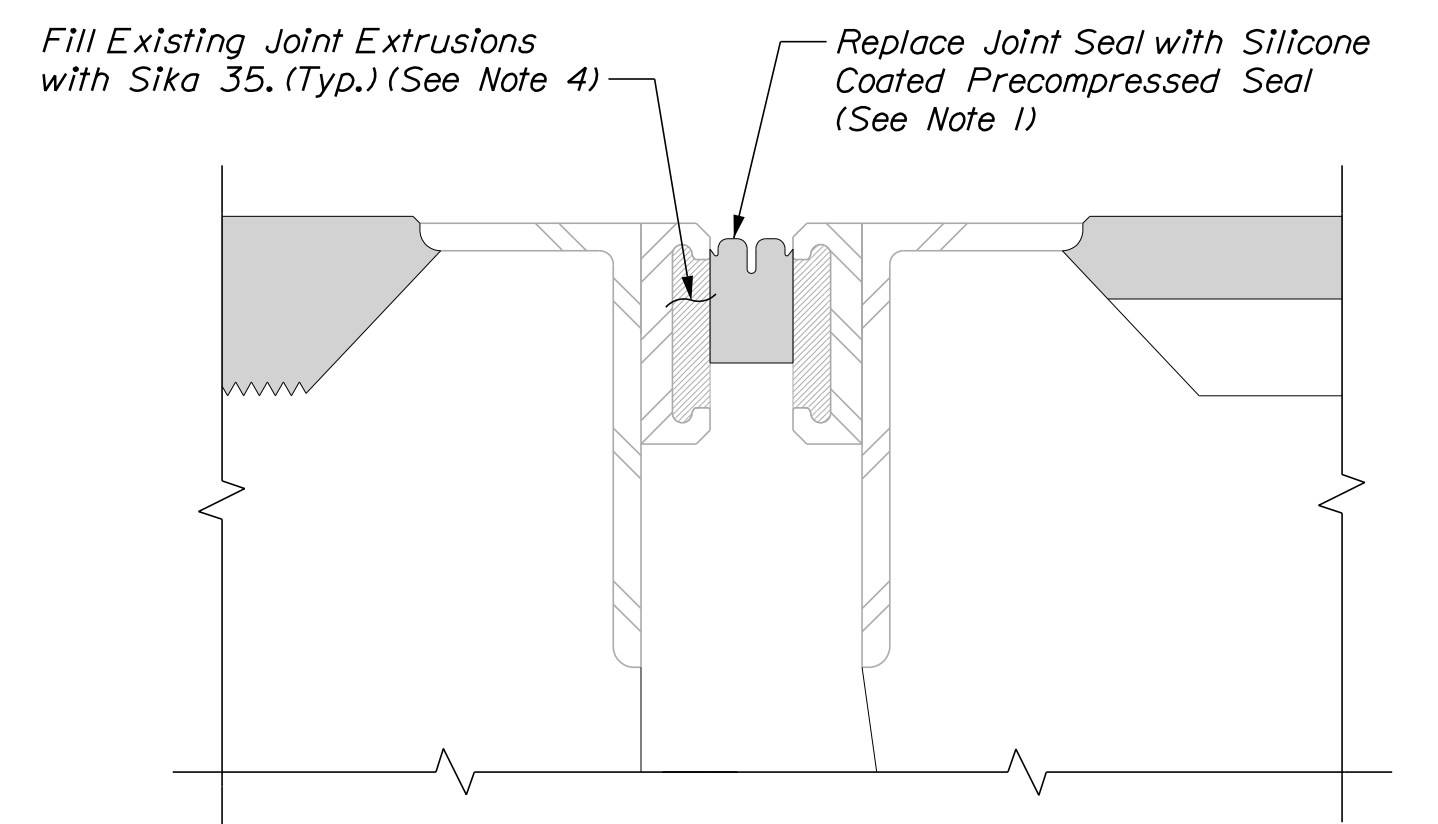
JOINT DETAIL AT CURB



SECTION A-A



SECTION B-B



JOINT DETAIL
Not to Scale

NOTES


1. Silicone Coated and Pre-Compressed Seal shall be paid under Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal.
2. Elastomeric Concrete Header shall be paid under Item 518.864, Elastomeric Concrete Header Repair. Prior to placing the elastomeric concrete, the Contractor shall remove any areas of deteriorated concrete in accordance with Supplemental Specification Section 518 and as directed by the Resident. If repairs to the top of the backwall are needed, the Contractor shall repair with elastomeric concrete and repairs shall be paid under Item 518.864, Elastomeric Concrete Header Repair. If repair depth is greater than 3" below the header, the repairs and the concrete header may be done with AAA concrete at the direction of the Resident and paid under Item 518.865, Concrete Header Repair.
3. Pavement Strip Repair shall be paid under Item 403.208, Hot Mix Asphalt 12.5mm Nominal Maximum Size.
4. Filling existing joint extrusions with Sika 35 shall be incidental to Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal.

Filename: ...016_BridgeTyp_02.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	KDW	11/22/24	In Charge of	MEB	11/22/24

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Suite 105B
South Portland, ME 04106
TEL (207) 889-3150
FAX (207) 253-5596



**THE GOLD STAR
MEMORIAL HIGHWAY**

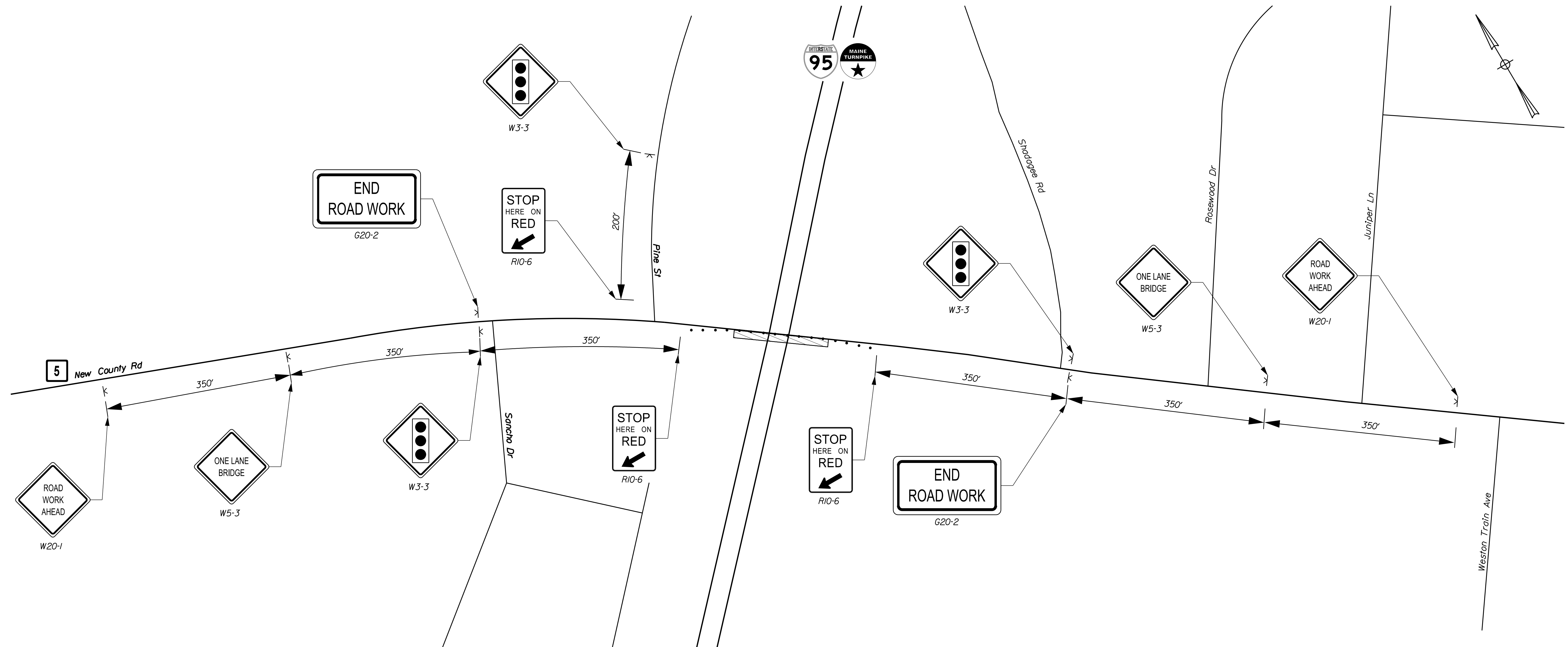
MTA PROJECT MANAGER: Kristi Van Ooyen, PE

MTA PROJECT NO. 2025.04
NEW COUNTY ROAD UNDERPASS
AT MM 34.40 IN SACO
BRIDGE JOINT SECTIONS

VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 16
16 OF 22

Date: 11/22/2024



TEMPORARY SIGNAL PLAN ADVANCE SIGNING

TEMPORARY SIGNAL PLAN ADVANCE SIGNING

Notes:
1. Advance signing shall be in place for both Phase 1 and Phase 2 Temporary Signal Plans.

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
G20-2	SHSB		36"x18"	2 - Black on Orange
R10-6	SHSB		24"x36"	3 - Black on White
W3-3	SHSB		36"x36"	3 - Black on Orange (Red/Yellow/Green)

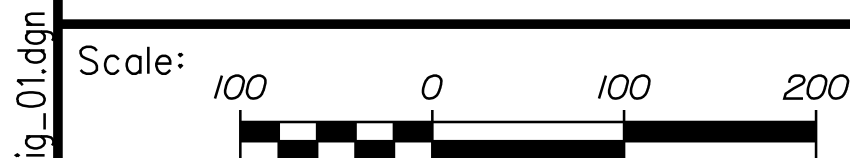
SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W5-3	SHSB		36"x36"	2 - Black on Orange
W20-1	SHSB		36"x36"	2 - Black on Orange

SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.

LEGEND

- Construction Sign On Easel
- Cone/Channelizing Device
- Work Area



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date		By	Date
Designed	MLG	11/22/24	Checked	MDS	11/22/24
Drawn	BJW	11/22/24	In Charge of	GME	11/22/24

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500 Southborough Dr.
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South Portland, ME 04106
TEL (207) 889-3150
FAX (207) 253-5596

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

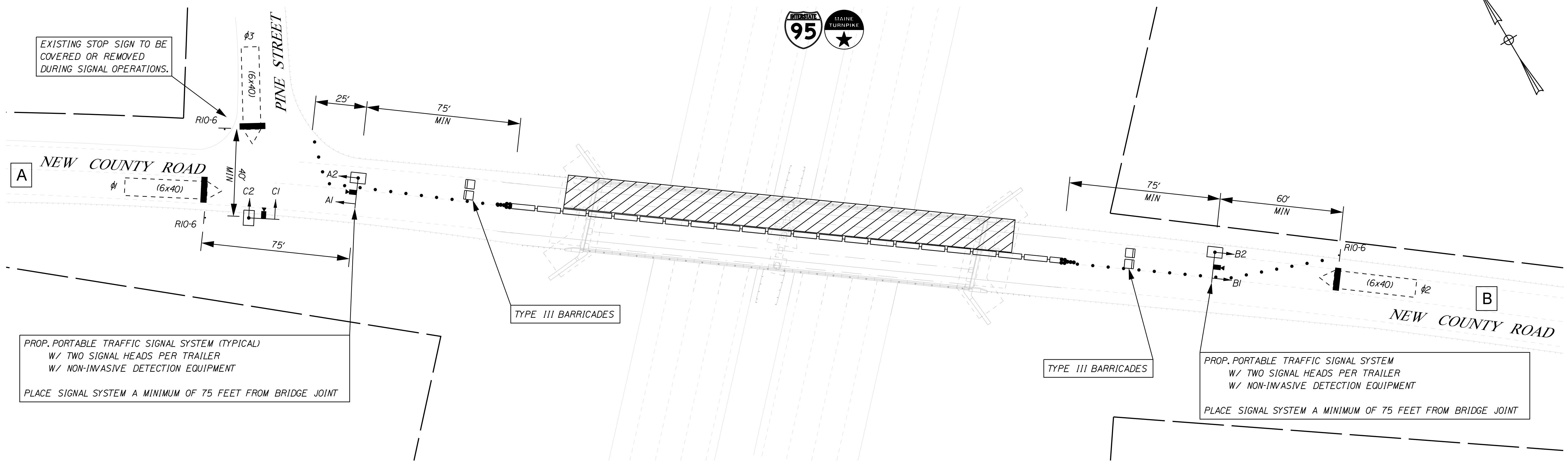
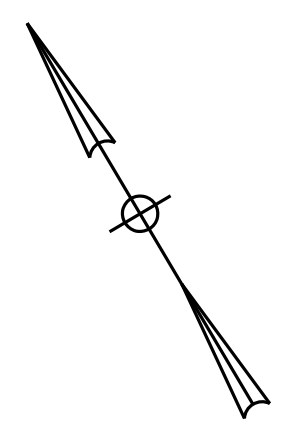
MTA PROJECT NO. 2025.04
NEW COUNTY ROAD UNDERPASS
AT MM 34.40 IN SACO
TEMPORARY SIGNAL PLAN
ADVANCE SIGNING

VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 17
17 OF 22

Filename: ...017_TSig_01.dgn

Date: 11/22/2024

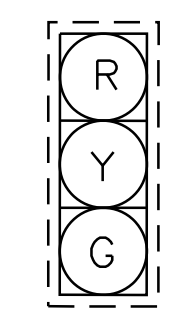


EXISTING STOP SIGN TO BE COVERED OR REMOVED DURING SIGNAL OPERATIONS.

PROP. PORTABLE TRAFFIC SIGNAL SYSTEM (TYPICAL) W/ TWO SIGNAL HEADS PER TRAILER W/ NON-INVASIVE DETECTION EQUIPMENT
PLACE SIGNAL SYSTEM A MINIMUM OF 75 FEET FROM BRIDGE JOINT

PROP. PORTABLE TRAFFIC SIGNAL SYSTEM W/ TWO SIGNAL HEADS PER TRAILER W/ NON-INVASIVE DETECTION EQUIPMENT
PLACE SIGNAL SYSTEM A MINIMUM OF 75 FEET FROM BRIDGE JOINT

PROPOSED INDICATIONS



A1, A2
B1, B2
C1, C2

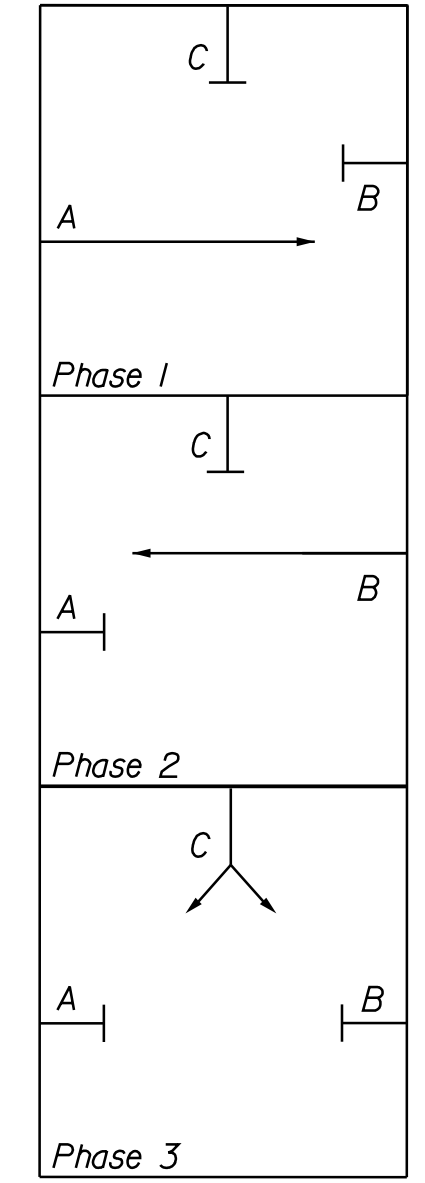
NOTE:
ALL INDICATIONS SHALL BE 12" LIGHT EMITTING DIODES (LED'S) WITH 5" LOUVERED RETROREFLECTIVE BACKPLATES

PROPOSED POST MOUNTED SIGNS



R10-6
24"x36"
3-PROPOSED

PHASE DIAGRAM



2024 CONSTRUCTION DESIGN VOLUMES

← 320
205 →

PROPOSED TEMPORARY NEMA 4 PHASE CONTROLLER SIGNAL PHASING & TIMING

	PHASE 1	PHASE 2	PHASE 3*
MIN GREEN	10	10	10
EXTENSION	4	4	3
MAX 1	40	40	20
MAX 2	-	-	-
VEH CLEAR	4	4	4
RED CLEAR	16	16	4
WALK	-	-	-
PED CLEAR	-	-	-
FLASH	FR	FR	FR
RECALL	SOFT	OFF	OFF
DETECTOR	NL	NL	NL
PRE-EMPT PRIORITY	-	-	-

L = LOCKING
NL = NON-LOCKING

*φ3 DETECTOR SHALL ALWAYS CALL φ3 AND φ1
THE CONTRACTOR SHALL SET TIMING OF THE TEMPORARY TRAFFIC SIGNAL PER TIMING DATA PROVIDED. SIGNAL TIMING ADJUSTMENTS SHALL BE APPROVED BY THE RESIDENT AND ACCOMPLISHED AS DIRECTED BY THE RESIDENT. PAYMENT FOR ALL SIGNAL TIMING ADJUSTMENTS SHALL BE INCIDENTAL TO THE TRAFFIC SIGNAL SYSTEM.

NOTES:

1. SEE TEMPORARY SIGNAL PLAN ADVANCE SIGNING FOR APPROACH SIGNS.

LEGEND

- CONSTRUCTION AREA
- PORTABLE CONCRETE BARRIER
- CHANNELIZATION DEVICES
- IMPACT ATTENUATION DEVICE
- VEHICLE DETECTION ZONE
- PORTABLE TRAFFIC SIGNAL TRAILER
- TYPE III BARRICADE

Scale: 25 0 25 50

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date	By	Date	
Designed	MLG	11/22/24	Checked	MDS	11/22/24
Drawn	BJW	11/22/24	In Charge of	GME	11/22/24

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South Portland, ME 04106
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FAX (207) 253-5596

THE GOLD STAR MEMORIAL HIGHWAY

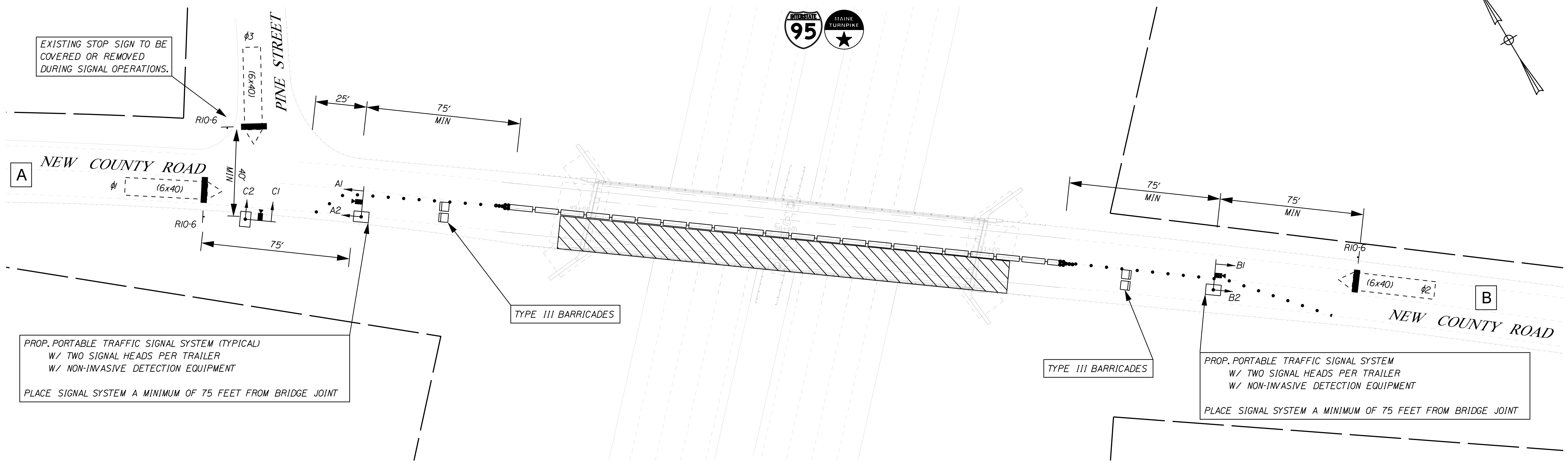
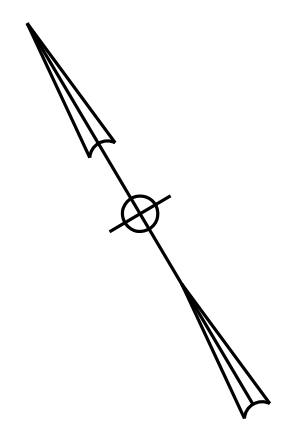
MTA PROJECT MANAGER: Kristi Van Ooyen, PE

MTA PROJECT NO. 2025.04
NEW COUNTY ROAD UNDERPASS
AT MM 34.40 IN SACO
TEMPORARY SIGNAL PLAN
PHASE 1

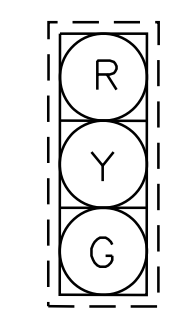
VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 18
18 OF 22

Date: 11/22/2024



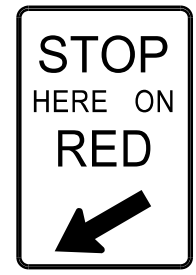
PROPOSED INDICATIONS



A1, A2
B1, B2
C1, C2

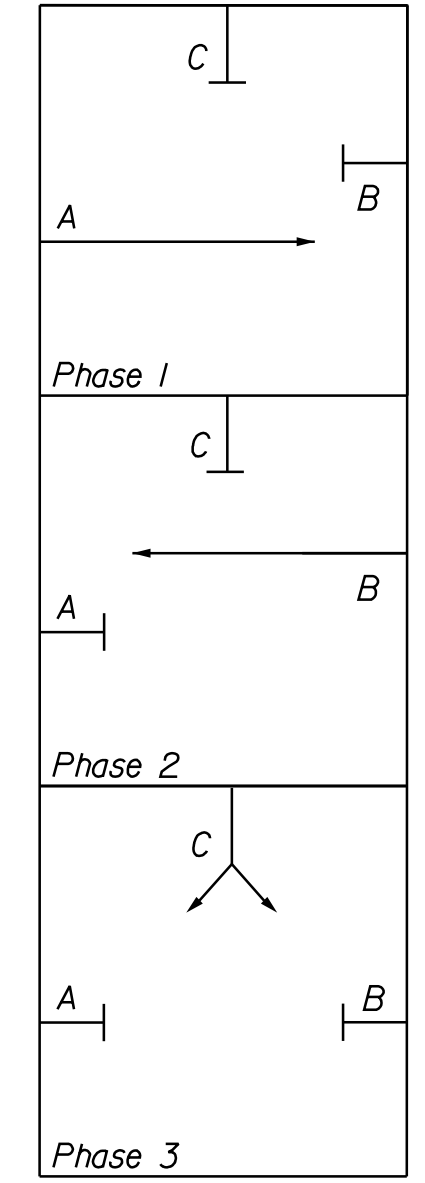
NOTE:
ALL INDICATIONS SHALL BE 12" LIGHT EMITTING DIODES (LED'S) WITH 5" LOUVERED RETROREFLECTIVE BACKPLATES

PROPOSED POST MOUNTED SIGNS



R10-6
24"x36"
3-PROPOSED

PHASE DIAGRAM



2024 CONSTRUCTION DESIGN VOLUMES

← 320
205 →

PROPOSED TEMPORARY NEMA 4 PHASE CONTROLLER SIGNAL PHASING & TIMING

	PHASE 1	PHASE 2	PHASE 3*
MIN GREEN	10	10	10
EXTENSION	4	4	3
MAX 1	40	40	20
MAX 2	-	-	-
VEH CLEAR	4	4	4
RED CLEAR	16	16	4
WALK	-	-	-
PED CLEAR	-	-	-
FLASH	FR	FR	FR
RECALL	SOFT	OFF	OFF
DETECTOR	NL	NL	NL
PRE-EMPT PRIORITY	-	-	-

L = LOCKING
NL = NON-LOCKING

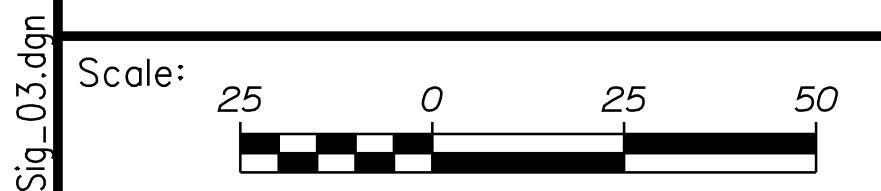
*φ3 DETECTOR SHALL ALWAYS CALL φ3 AND φ1
THE CONTRACTOR SHALL SET TIMING OF THE TEMPORARY TRAFFIC SIGNAL PER TIMING DATA PROVIDED. SIGNAL TIMING ADJUSTMENTS SHALL BE APPROVED BY THE RESIDENT AND ACCOMPLISHED AS DIRECTED BY THE RESIDENT. PAYMENT FOR ALL SIGNAL TIMING ADJUSTMENTS SHALL BE INCIDENTAL TO THE TRAFFIC SIGNAL SYSTEM.

NOTES:

1. SEE TEMPORARY SIGNAL PLAN ADVANCE SIGNING FOR APPROACH SIGNS.

LEGEND

- CONSTRUCTION AREA
- PORTABLE CONCRETE BARRIER
- CHANNELIZATION DEVICES
- IMPACT ATTENUATION DEVICE
- VEHICLE DETECTION ZONE
- PORTABLE TRAFFIC SIGNAL TRAILER
- TYPE III BARRICADE



Designed by:



VANASSE HANGEN BRUSTLIN, INC.
500 Southborough Dr.
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South Portland, ME 04106
TEL (207) 889-3150
FAX (207) 253-5596



THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT NO. 2025.04
NEW COUNTY ROAD UNDERPASS
AT MM 34.40 IN SACO
TEMPORARY SIGNAL PLAN
PHASE 2

Filename: ...019_TSig_03.dgn

No.	Revision	By	Date

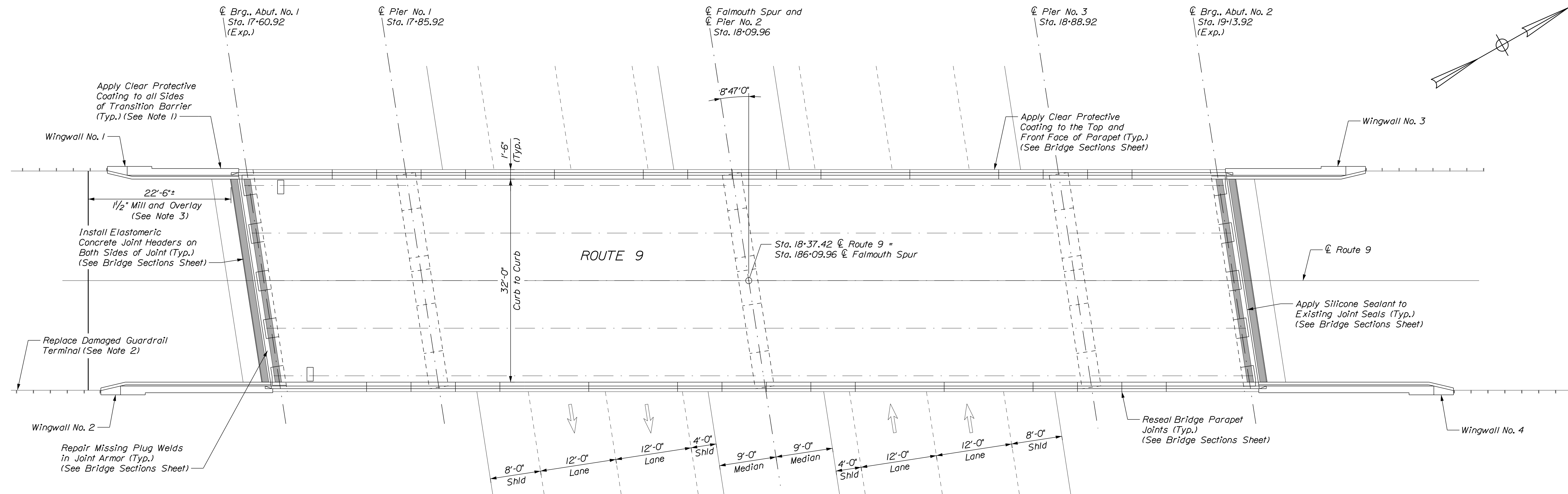
CONSULTANT PROJECT MANAGER: M. Bowe					
	By	Date	By	Date	
Designed	MLG	11/22/24	Checked	MDS	11/22/24
Drawn	BJW	11/22/24	In Charge of	GME	11/22/24

VHB: 55807.00
CONTRACT: 2025.04

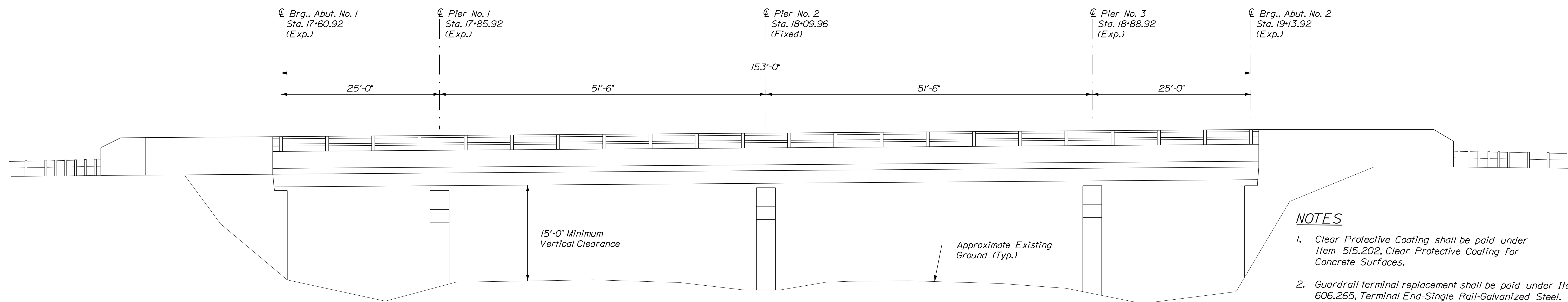
SHEET NUMBER: 19
19 OF 22

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

Date: 11/22/2024



PLAN
Scale: 1/8" = 1'-0"

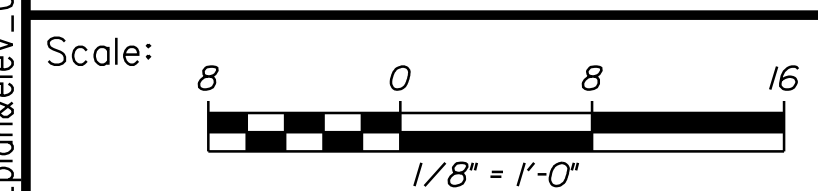


ELEVATION
Scale: 1/8" = 1'-0"

NOTES


1. Clear Protective Coating shall be paid under Item 515.202, Clear Protective Coating for Concrete Surfaces.
2. Guardrail terminal replacement shall be paid under Item 606.265, Terminal End-Single Rail-Galvanized Steel.
3. Match south approach mill and overlay length to existing pavement joint.

Filename: ... \020_plan&elev_01.dgn



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	BJW	11/22/24	In Charge of	MEB	11/22/24

VANASSE HANGEN BRUSTLIN, INC.
500 Southborough Dr.
Suite 105B
South Portland, ME 04106
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FAX (207) 253-5596



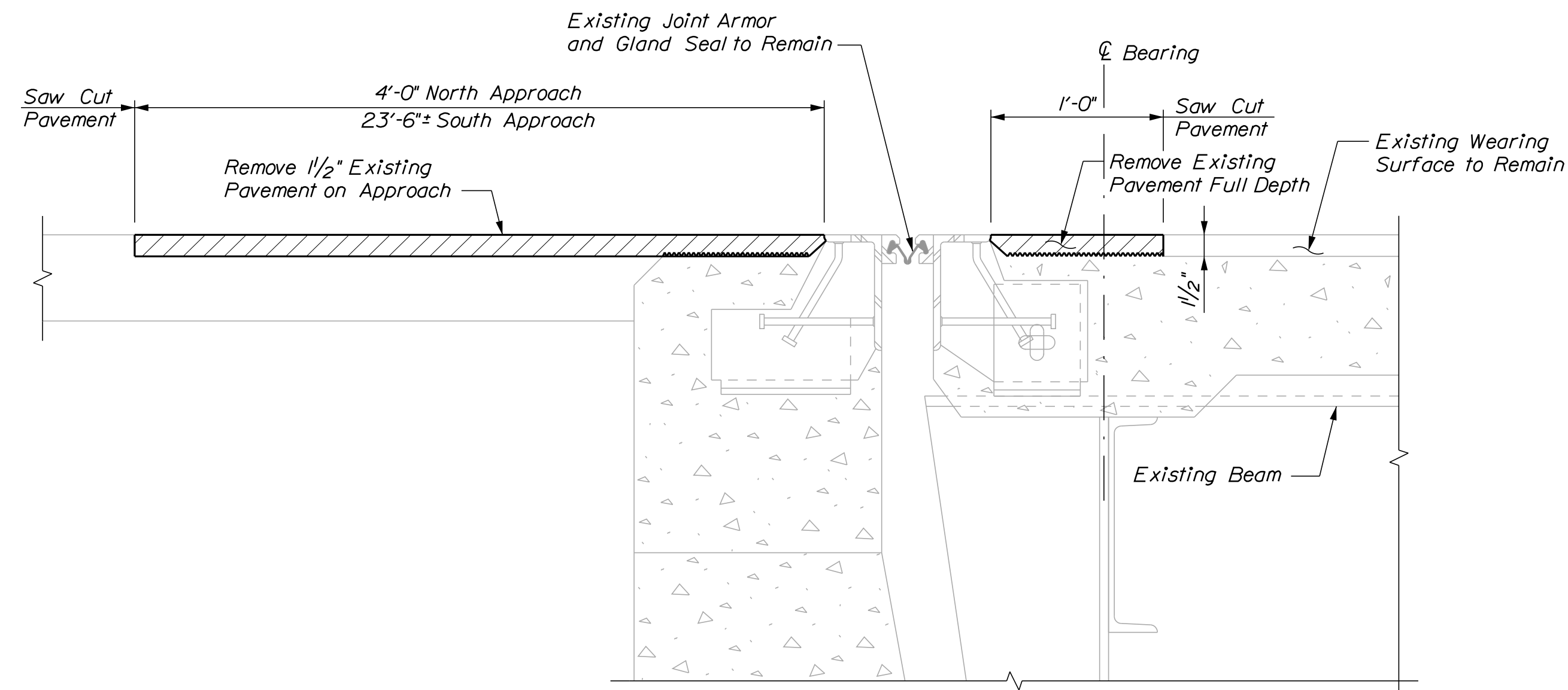
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

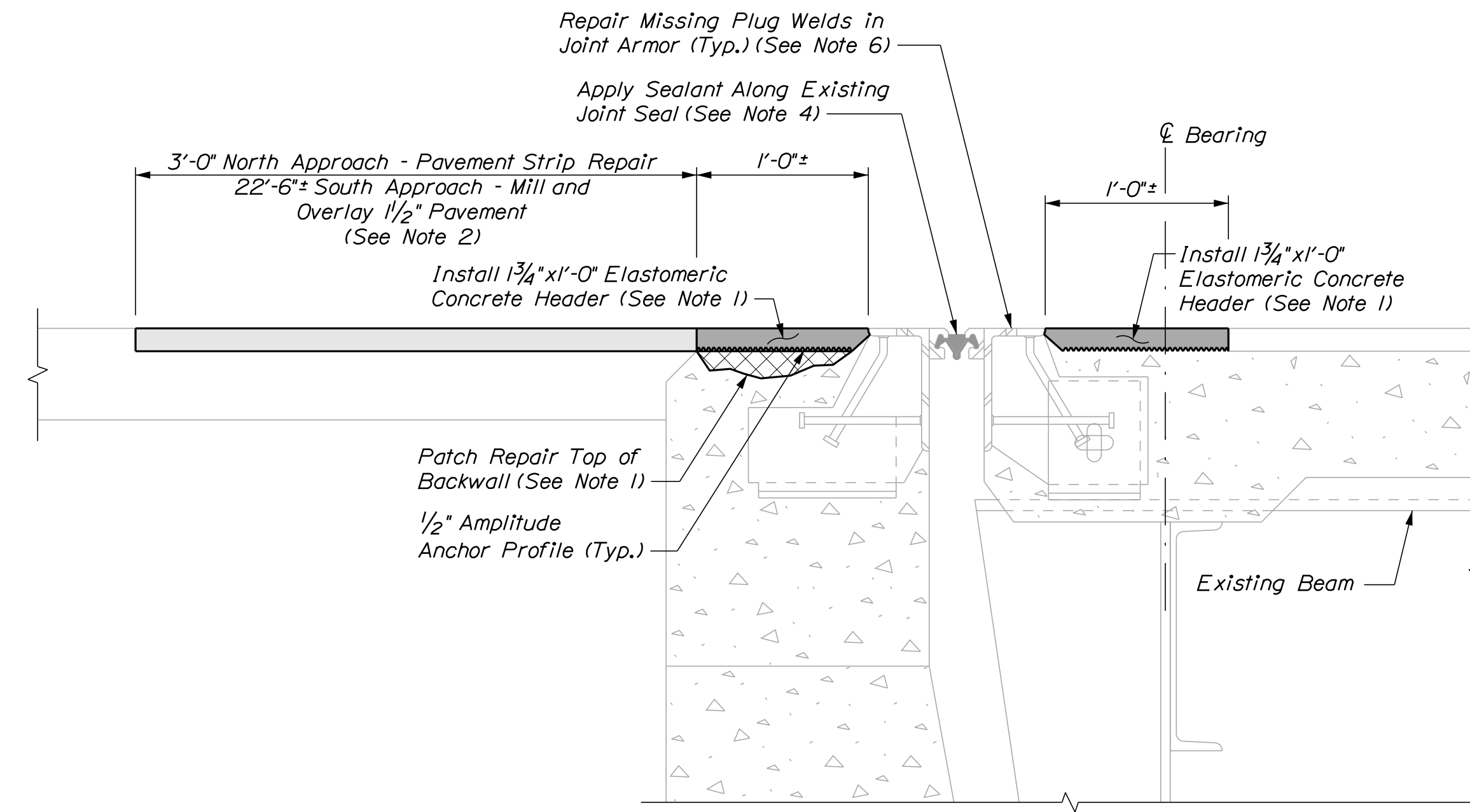
MTA PROJECT NO. 2025.04
ROUTE 9 / MIDDLE ROAD UNDERPASS
AT MM FS 3.70 IN FALMOUTH
BRIDGE PLAN AND ELEVATION

VHB: 55807.00
SHEET NUMBER: 20
CONTRACT: 2025.04
20 OF 22

Date: 11/22/2024

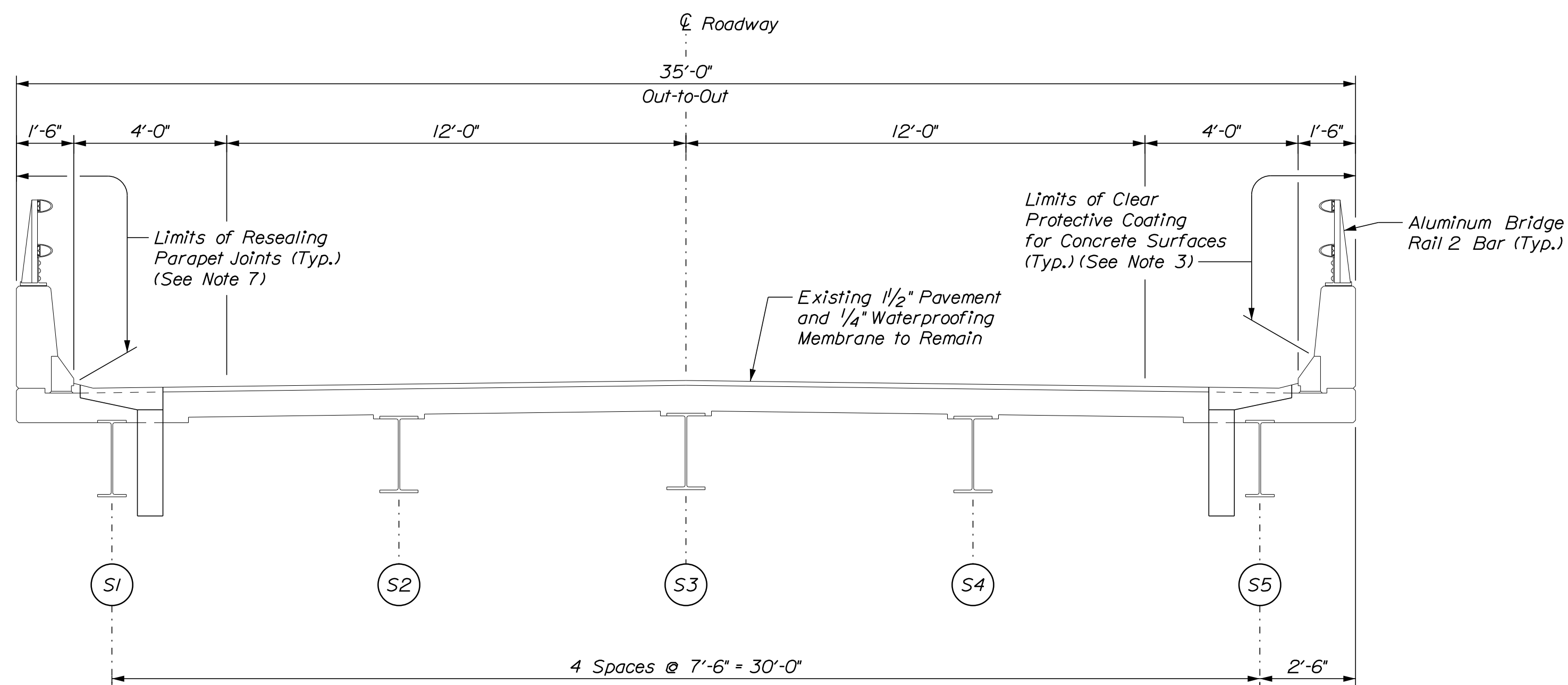


EXISTING EXPANSION JOINT SECTION



PROPOSED EXPANSION JOINT SECTION

SECTIONS AT EXPANSION JOINTS AT ABUTMENTS
Not to Scale

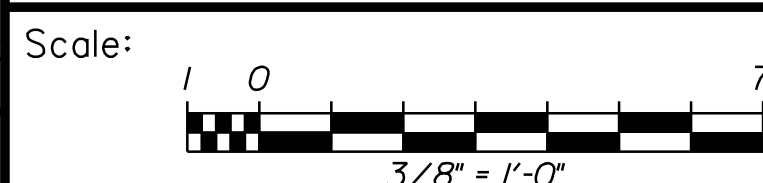


SUPERSTRUCTURE TYPICAL SECTION
Scale: 3/8" = 1'-0"

NOTES


1. Elastomeric Concrete Header shall be paid under Item 518.864, Elastomeric Concrete Header Repair. Prior to placing the elastomeric concrete, the Contractor shall remove any areas of deteriorated concrete in accordance with Supplemental Specification Section 518 and as directed by the Resident. If repairs to the top of the backwall are needed, the Contractor shall repair with elastomeric concrete and repairs shall be paid under Item 518.864, Elastomeric Concrete Header Repair. If repair depth is greater than 3" below the header, the repairs and the concrete header may be done with AAA concrete at the direction of the Resident and paid under Item 518.865, Concrete Header Repair.
2. Approach Pavement shall be paid under Item 403.210, Hot Mix Asphalt 9.5mm Nominal Maximum Size.
3. Clear Protective Coating shall be paid under Item 515.202, Clear Protective Coating for Concrete Surfaces.
4. Joint sealant shall be applied the full length of the joint, including into the curb. The existing joint seal shall be cleaned and inspected by the Resident before applying sealant. The Contractor shall ensure no sealants leaks through any tears in the existing joint seal. Sealant for joint seal shall be paid under Item 520.40, Joint Seal Repair. See Special Provision 520 for additional details.
5. Match south approach mill and overlay length to existing pavement joint.
6. Repair of missing plug welds in joint armor shall be paid under Item 520.98, Joint Weld Repair. See Special Provision 520 for more details.
7. Reseal all parapet joints as directed by the Resident including the joint between the parapet and top of curb. Joint sealant shall be from the MaineDOT Qualified Product List for Silicone and Polyurethane Joint Sealant. Resealing joints shall be paid under Item 518.48, Reseal Joints.

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No.	Revision	By	Date

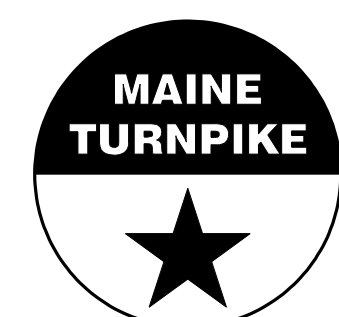
Designed by:



CONSULTANT PROJECT MANAGER: M. Bowe

	By	Date		By	Date
Designed	HMR	11/22/24	Checked	HNH	11/22/24
Drawn	BJW	11/22/24	In Charge of	MEB	11/22/24

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South Portland, ME 04106
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

MTA PROJECT NO. 2025.04
ROUTE 9 / MIDDLE ROAD UNDERPASS
AT MM FS 3.70 IN FALMOUTH
BRIDGE SECTIONS

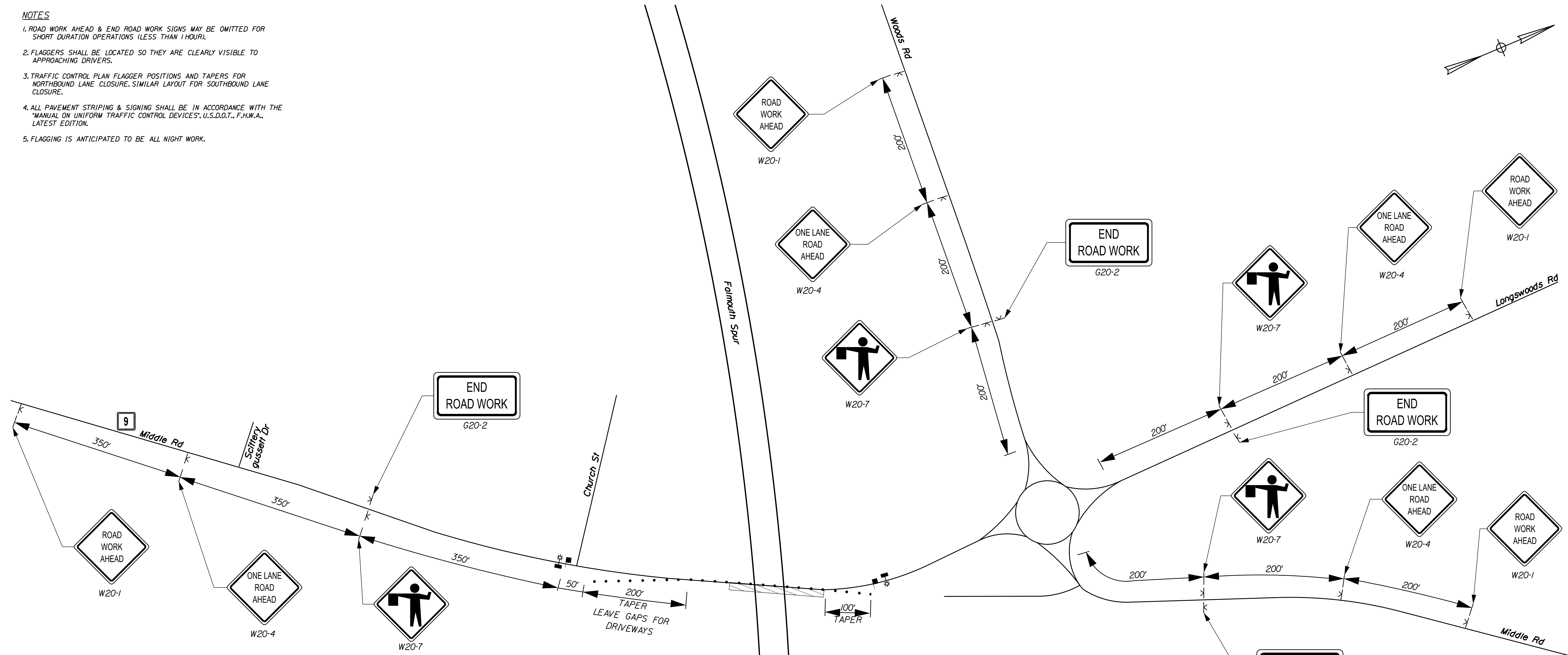
VHB: 55807.00
CONTRACT: 2025.04

SHEET NUMBER: 21
21 OF 22

NOTES

1. ROAD WORK AHEAD & END ROAD WORK SIGNS MAY BE OMITTED FOR SHORT DURATION OPERATIONS (LESS THAN 1 HOUR).
2. FLAGGERS SHALL BE LOCATED SO THEY ARE CLEARLY VISIBLE TO APPROACHING DRIVERS.
3. TRAFFIC CONTROL PLAN FLAGGER POSITIONS AND TAPERS FOR NORTHBOUND LANE CLOSURE. SIMILAR LAYOUT FOR SOUTHBOUND LANE CLOSURE.
4. 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.
5. FLAGGING IS ANTICIPATED TO BE ALL NIGHT WORK.

Date: 11/22/2024



CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
G20-2	SHSB		36"x18"	4 - Black on Orange
W20-1	SHSB		36"x36"	4 - Black on Orange
W20-4	SHSB		36"x36"	4 - Black on Orange

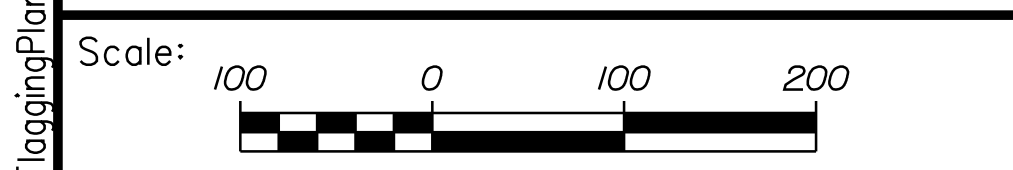
SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W20-7	SHSB		36"x36"	4 - Black on Orange

SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.

LEGEND

- Construction Sign On Easel
- Cone/Channelizing Device
- Work Area
- Flagger Position
- Portable Lighting Location



Designed by:



VANASSE HANGEN BRUSTLIN, INC.
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 Suite 105B
 South Portland, ME 04106
 TEL (207) 889-3150
 FAX (207) 253-5596



**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2025.04
 ROUTE 9 / MIDDLE ROAD UNDERPASS
 AT MM FS 3.70 IN FALMOUTH
 TRAFFIC CONTROL PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: M. Bowe					
	By	Date		By	Date
Designed	MLG	11/22/24	Checked	MDS	11/22/24
Drawn	BJW	11/22/24	In Charge of	GME	11/22/24

MTA PROJECT MANAGER: Kristi Van Ooyen, PE

Filename: ... \022_FlaggingPlan.dgn