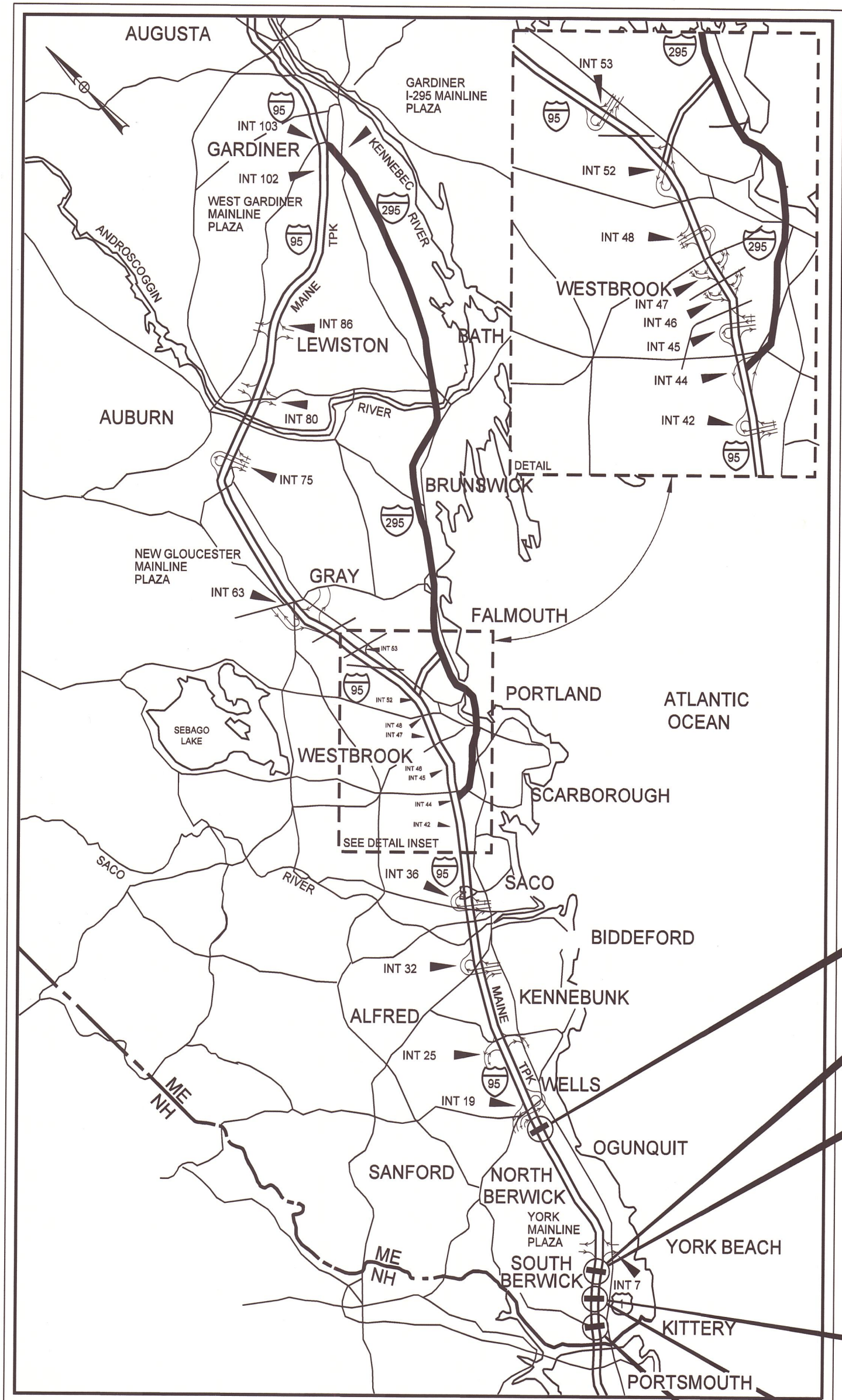


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LOCATION MAP



THE GOLD STAR MEMORIAL HIGHWAY

# MAINE TURNPIKE AUTHORITY

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

S. PETER MILLS, EXECUTIVE DIRECTOR

## CONTRACT 2022.04

### BRIDGE REPAIRS

- ROUTE 236 UNDERPASS (MM 1.25)
- ROUTE 1 OFF-RAMP (RAMP J) UNDERPASS (MM 1.50)
- ROUTE 1 ON-RAMP (RAMP H) UNDERPASS (MM 1.60)
- WILSON ROAD UNDERPASS (MM 2.00)
- SPRUCE CREEK OVERPASS (MM 2.20)
- LITTLEFIELD ROAD UNDERPASS (MM 17.30)

### EMERGENCY VEHICLE RAMPS

### LITTLEFIELD ROAD (MM 17.30)

Sheet No.	Description
1	Title Sheet
2	Estimated Quantities
3	General Notes
4-6	Maintenance of Traffic Details (3 Sheets)
7-14	Route 236 Maintenance of Traffic Details (8 Sheets)
15	Ramp J Detour Plan (1 Sheet)
16	Ramp H Detour Plan (1 Sheet)
17	Wilson Road Detour Plan (1 Sheet)
18-37	Spruce Creek Maintenance of Traffic Details (20 Sheets)
38-42	Littlefield Road Maintenance of Traffic Details (5 Sheets)
43	Concrete Repair Typical Details
44	Miscellaneous Details
<b>Structure 1 Route 236 Underpass Bridge</b>	
45	General Plan and Elevation
46	Bridge Typical Section
47	Abutment No. 1 Repairs
48	Abutment No. 2 Repairs
49	Pier No. 1 Repairs
50	Pier No. 2 Repairs
51	Deck Underside Repairs
52	Bridge Joint Modifications
<b>Structure 2 Ramp J Underpass Bridge</b>	
53	General Plan and Elevation
54	Bridge Typical Section
55	Abutment No. 1 Repairs
56	Abutment No. 2 Repairs
<b>Structure 3 Ramp H Underpass Bridge</b>	
57	General Plan and Elevation
58	Typical Sections
59	Abutment No. 1 Repairs
60	Abutment No. 2 Repairs
61	Pier Repairs
62	Bridge Joint Modifications
<b>Structure 4 Wilson Road Underpass Bridge</b>	
63	General Plan and Elevation
64	Bridge Typical Section
65	Abutment No. 1 Repairs
66	Abutment No. 2 Repairs
67	Pier No. 1 Repairs
68	Pier No. 2 Repairs
69	Bridge Joint Modifications (1 of 2)
70	Bridge Joint Modifications (2 of 2)
71	Slope Protection Repairs
<b>Structure 5 Spruce Creek Overpass Bridge</b>	
72	General Plan and Elevation
73	Bridge Typical Section
74	NB Abutment No. 1 Repairs
75	SB Abutment No. 1 Repairs
76	SB Abutment No. 2 Repairs
77	NB Abutment No. 2 Repairs
78	Wingwall Repairs
79	Deck Underside Repairs
80	Bridge Joint Modifications
81	Bearing Pedestal Details (1 of 2)
82	Bearing Pedestal Details (2 of 2)
83	Bridge Drain Details
84	Bridge Rail Transition Details
<b>Structure 6 Littlefield Road Underpass Bridge</b>	
85	General Plan and Elevation
86	Bridge Typical Section
87	Abutment No. 1 Repairs
88	Abutment No. 2 Repairs
89	Pier Repairs
90	Bridge Joint Modifications
91	Slope Protection Repairs
<b>Littlefield Road EVR</b>	
92	Earthwork Summary
93	General Notes and Construction Notes
94	Typical Roadway Sections
95	Details and Sign Summary
96	Fencing Details
97-98	General Plans (2 Sheets)
99-100	Profiles (2 Sheets)
101-102	Disturbance Impact Plans (2 Sheets)
103-117	Cross Sections (15 Sheets)

Contract 2022.04

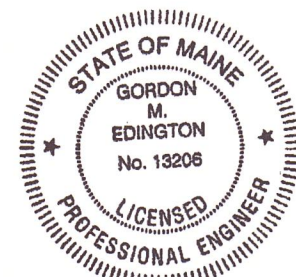
APPROVED: MAINE TURNPIKE AUTHORITY

*Peter S. Merfeld*  
 PETER S. MERFELD, M.E. - CHIEF OPERATIONS OFFICER

01-11-22  
DATE

*Stephen R. Tartre*  
 STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING & BUILDING MAINTENANCE

1/11/22  
DATE



*Gordon M. Edington*  
 Gordon M. Edington, P.E.  
 Consultant Project Manager

1/14/2022  
DATE



Date: 1/14/2022


ESTIMATED QUANTITIES										
ITEM NO.	DESCRIPTION	UNIT	Route 236	Route 1 Off-Ramp (Ramp J)	Route 1 On-Ramp (Ramp H)	Wilson Road	Spruce Creek	Littlefield Road	Littlefield Road EVR	Quantity Total
201.11	Clearing	AC							0.55	0.55
201.23	Removing Single Tree Top Only	EA							2	2
201.24	Removing Stump	EA							2	2
202.121	Removing Existing Girder Haunches	LF	6,360							6,360
202.122	Removing Existing Structural Concrete	SF	50							50
202.202	Removing Pavement Surface	SY	3,350	1,310	1,300	1,150	720	750		8,580
202.203	Pavement Butt Joints	SY							200	200
203.20	Common Excavation	CY							2,110	2,110
203.24	Common Borrow	CY							100	100
203.25	Granular Borrow	CY							155	155
304.10	Aggregate Subbase Course-Gravel	CY							1,090	1,090
304.14	Aggregate Base Course - Type A	CY							340	340
403.207	Hot Mix Asphalt, 19.0 mm Nominal Maximum Size (Base)	TON							270	270
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Surface)	TON	340	140	130	120	60	62	215	1,067
409.15	Bituminous Tack Coat RS-1 or RS1h - Applied	GAL	133	53	60	45	29	30	97	447
419.30	Sawing Bituminous Pavement	LF							360	360
502.702	Replace Bridge Drain (Type A)	EA	10	5		6	4			25
502.703	Replace Bridge Drain (Type B)	EA					6			6
506.14	Field Painting of Existing Structural Steel (Ramp H)	LS			1					1
508.14	High Performance Waterproofing Membrane (Rt 236) (2,360 SY)	LS	1							1
508.14	High Performance Waterproofing Membrane (Ramp J) (994 SY)	LS		1						1
508.14	High Performance Waterproofing Membrane (Ramp H) (675 SY)	LS			1					1
508.14	High Performance Waterproofing Membrane (Wilson Rd) (927 SY)	LS				1				1
515.201	Pigmented Protective Coating for Concrete Surfaces	SY	1,400	260	130	390	350	380		2,910
515.202	Clear Protective Coating for Concrete Surfaces	SY	670	310	240	360	130	350		2,060
518.10	Abutment Repairs	SF	185	680	10	30	105	20		1,030
518.20	Pier Repairs	SF	5			20				25
518.391	Repairing Granite Curb Joint and Bedding Mortar	LF	990	790	460	690	8			2,938
518.4	Epoxy Injection Crack Repair	LF	45			150	15			210
518.48	Reseal Joints	LF						125		125
518.70	Repair of Overhead Surfaces < 8 inches	SF				5	100			105
518.75	Fascia and Overhang Repairs	SF		12	10	130		5		157
518.76	Partial Concrete Curb Reconstruction	LF				280				280
518.80	Partial Depth Concrete Deck Repairs	SF	640	270	305	420				1,635
518.81	Full Depth Concrete Deck Repairs	SF	180		10					190
518.92	Slope Protection Repairs	LF	20		80	170				270
518.921	Slope Protection Concrete Repairs	SF						80		80
518.93	Parapet Repairs	SF						110		110
518.94	Parapet Surface Repairs	LF						361		361
520.23	Asphaltic Plug Joint (Route 236)	LF	100							100
520.23	Asphaltic Plug Joint (Spruce Creek NB)	LF					125			125
520.23	Asphaltic Plug Joint (Spruce Creek SB)	LF					125			125
520.234	Expansion Device - Silicone Coated and Pre-Compressed Seal	LF	245				50	36		331
520.2406	Bridge Joint Modification (Ramp H)	LS			1					1
520.2406	Bridge Joint Modification (Littlefield Rd)	LS						1		1
520.2407	Bridge Joint Steel Modification	EA				4				4
520.50	Remove and Replace Gland Seal (Route 236)	EA	1							1
520.50	Remove and Replace Gland Seal (Wilson Rd)	EA				2				2
523.1201	Reseal Steel Bearings	EA	2	5						7
523.521	Bearing Removal and Installation	EA					4			4
523.5301	Steel Bearings, Fixed, Sliding Plate	EA					2			2
523.5302	Steel Bearings, Expansion, Sliding Plate	EA					2			2
524.40	Protective Shielding - Steel Girders	SY				179				179
524.7212	Jacking Existing Superstructure (Route 236)	LS	1							1
524.7212	Jacking Existing Superstructure (Ramp J)	LS		1						1
524.7212	Jacking Existing Superstructure (Spruce Creek)	LS					1			1
603.179	18 inch Culvert Pipe Option III	LF							118	118
606.1723	Bridge Transition Type I	EA					2			2
606.24	Guardrail Type 3d - Single Rail	LF					12.5			12.5
606.242	Guardrail Type 3d - Over 15 foot Radius	LF							25	25
606.265	Terminal End-Single Rail - Galvanized Steel	EA							1	1
606.278	Terminal End - Anchored End	EA							1	1
606.353	Reflectorized Flexible Guardrail Marker	EA							2	2
606.3562	Delinicator Post - Remove and Stack	EA							1	1
606.369	Guardrail - Remove and Stack	LF							25	25
607.17	Chain Link Fence - 6 foot	LF							40	40
607.2325	Pipe Entry Gate	EA							2	2
607.2326	Remove Chain Link Gate	EA							1	1
607.32	Bracing Assembly Type I - Metal Posts	EA							4	4
607.33	Bracing Assembly Type II - Metal Posts	EA							2	2
609.11	Vertical Curb Type I	LF	35							35
610.08	Plain Riprap	CY							15	15
610.181	Temporary Stone Check Dam	CY							14	14
613.319	Erosion Control Blanket	SY							768	768

\* Quantities are Estimated Only

ESTIMATED QUANTITIES										
ITEM NO.	DESCRIPTION	UNIT	Route 236	Route 1 Off-Ramp (Ramp J)	Route 1 On-Ramp (Ramp H)	Wilson Road	Spruce Creek	Littlefield Road	Littlefield Road EVR	Quantity Total
615.07	Loom	CY								
618.14	Seeding Method Number 2	UNIT							430	430
619.1201	Mulch - Plan Quantity	UNIT							36	36
619.1202	Temporary Mulch	LS							1	1
620.58	Erosion Control Geotextile	SY							57	57
626.15	Electrical Service Box	EA	1							1
627.712	White or Yellow Pavement Marking Line	LF	2,250	870	850	1,320	470	840		6,600
629.05	Hand Labor, Straight Time	HR							230	230
631.10	Air Compressor (including operator)	HR							200	200
631.11	Air Tool (including operator)	HR							200	200
631.12	All Purpose Excavator (including operator)	HR							230	230
631.171	Truck - small (including operator)	HR							230	230
631.36	Foreman	HR							230	230
634.1612	Removal of Bridge & Highway Lighting Including Wire	LS			1					1
639.19	Field Office, Type B	EA				1				1
645.109	Remove and Reset Sign	EA							5	5
645.271	Regulatory, Warning, Confirmation and Route Assembly Sign, Type I	SF							33	33
652.39	Work Zone Traffic Control	LS				1				1
656.50	Baled Hay, in place	EA								
656.632	30 inch Temporary Silt Fence	LF							1,620	1,620
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			
No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
	MEB	10/29/21	Checked	GME	10/29/21
	DPD	10/29/21	In Charge of	TSB	10/29/21

VANASSE HANGEN BRUSTLIN, INC.  
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## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood, IV

MTA PROJECT NO. 2022.04  
 2022 SOUTHERN BRIDGE REPAIRS  
 ESTIMATED QUANTITIES

VHB: 55345.00      SHEET NUMBER: 2  
 CONTRACT: 2022.04      2 OF 117

**SPECIFICATIONS**

Design: AASHTO LRFD Bridge Design Specifications, 2018.

Construction: State of Maine Department of Transportation Standard Specifications, 2014 Edition.

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 1

**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**

**ROUTE 236 UNDERPASS BRIDGE**

DESIGN LIVE LOAD (for existing components) ..... HS 20  
AADT ..... 20,170  
Design Speed (MPH) (for existing) ..... 40  
Functional Class ..... Other Principal Arterial

**ROUTE 1 OFF-RAMP (RAMP J) UNDERPASS BRIDGE**

Design Live Load (for existing components) ..... HS 20-44  
AADT ..... 2,700  
Design Speed (MPH) (for existing) ..... 45  
Functional Class ..... Interstate

**ROUTE 1 ON-RAMP (RAMP H) UNDERPASS BRIDGE**

Design Live Load (for existing components) ..... HS 20-44  
AADT ..... 4,440  
Design Speed (MPH) (for existing) ..... 35  
Functional Class ..... Interstate

**WILSON ROAD UNDERPASS BRIDGE**

DESIGN LIVE LOAD (for existing components) ..... H 20-44  
AADT ..... 4,630  
Design Speed (MPH) (for existing) ..... 35  
Functional Class ..... Major Collector

**SPRUCE CREEK OVERPASS BRIDGE**

DESIGN LIVE LOAD (for existing components) ..... HS 20-44  
AADT ..... 31,690 NB, 32,260 SB  
Design Speed (MPH) (for existing) ..... 70  
Functional Class ..... Principal Arterial Interstate

**LITTLEFIELD ROAD UNDERPASS BRIDGE**

DESIGN LIVE LOAD (for existing components) ..... HS 25  
AADT ..... 5,580  
Design Speed (MPH) (for existing) ..... 45  
Functional Class ..... Minor Collector

**GENERAL CONSTRUCTION NOTES**

- All details shall be in conformance with Maine Department of Transportation (MaineDOT) 2014 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 Right of Way 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.maine Turnpike.com/projects/construction-contracts](http://www.maine Turnpike.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 pigmented protective coating for concrete surfaces shall be applied to the following areas:
  - All exposed concrete surfaces of the piers, unless otherwise noted.
  - Exposed concrete surfaces of the abutments as shown in these plans.
- For all structures clear protective coating for concrete surfaces shall be applied to the following areas:
  - All exposed bridge curbs, parapet and transition barriers.
  - All exposed median concrete.
  - All overhang and fascia concrete as shown in these plans.
- For all structures the bridge seat shall be cleaned before applying pigmented protective coating.
- The Contractor shall place approach pavement at all locations to achieve a smooth transition between existing and proposed pavement.

**EROSION CONTROL NOTES**

- 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 Maine Turnpike Authority is a non-member utility operator and is not registered with the Dig Safe system. The contractor shall contact all non-members through [www.OKtoDIG.com](http://www.OKtoDIG.com) or as otherwise required by the Maine Public Utilities Commission. All proposed excavation locations shall be marked at the time of notification. No excavation shall be permitted until the authority has located and marked its underground utilities. The Resident Engineer shall be provided an electronic copy of all Dig Safe tickets within 24 hours of their release for project notifications and 3rd party utility locator coordination.
- The anticipated utilities involved in this contract are:  
Central Maine Power Company  
Charter Communications, Inc.  
Consolidated Communications  
Kennebunk, Kennebunkport & Wells Water District
- Contractor shall protect all new and existing utilities from damage during the construction as approved by the utility owners.

Date: 1/14/2022

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Scale: AS NOTED

Designed by:



VANASSE HANGEN BRUSTLIN, INC.  
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FAX (207) 253-5596



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.04  
2022 SOUTHERN BRIDGE REPAIRS  
GENERAL NOTES

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: Ralph Norwood, IV

VHB: 55345.00

CONTRACT: 2022.04

SHEET NUMBER:





3

3 OF 117


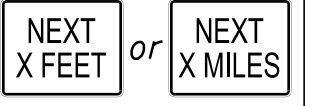



**MAINTENANCE OF TRAFFIC GENERAL NOTES**

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.maine Turnpike.com/Projects/Construction-Related-Documents.aspx](http://www.maine Turnpike.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. Spruce Creek Overpass Temporary Traffic Control: Each traffic control phase includes the anticipated work during that phase. After the completion of all phased construction, it is anticipated the Contractor will conduct the mill and overlay work with lane closures in accordance with the layouts described in Note 1.
3. Littlefield Road Emergency Vehicle Ramps (EVR) Temporary Traffic Control: The maintenance of traffic plan for the construction of the Littlefield EVRs will include Turnpike and Littlefield Road shoulder closures and lane closures as needed in accordance with the layouts described in Note 1.
4. 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.
5. 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.
6. 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.
7. In the event that lane closure(s) begin to cause back-ups in through traffic of more than five minutes, the Contractor shall deploy the additional signs as indicated in the single lane closure set-up details.
8. 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.
9. Maximum spacing for channelizing devices (drums) shall be:  
80' on center along tangents  
40' on center along tapers
10. Work Zone Speed Limits shall only be permitted when temporary lane closures are in place.
11. The indicated signs and sign quantities in these plans are approximate for the Contractor's information only. The Contractor is responsible for providing all traffic control devices, including all signing in the quantities required to accommodate their approved traffic control plans.

**LOCAL ROAD SINGLE LANE CLOSURE/SHOULDER CLOSURE**

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		36"x18"	2 - Black on Orange
W20-1 			36"x36"	2 - Black on Orange
W20-4 			36"x36"	2 - Black on Orange
W20-7 			36"x36"	2 - Black on Orange

**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

Date: 1/14/2022

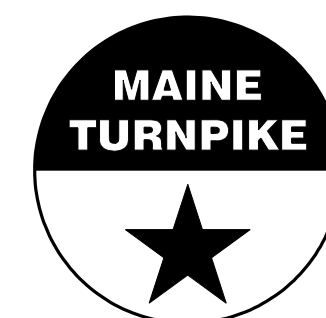
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Designed by:



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 500 Southborough Dr.  
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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.04  
 2022 SOUTHERN BRIDGE REPAIRS  
 MAINTENANCE OF TRAFFIC DETAILS (1 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	By	Date	
Designed	MLG	10/29/21	Checked	MDS	10/29/21
Drawn	JAR	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: Ralph Norwood, IV

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **4**  
 4 OF 117

TURNPIKE SHOULDER CLOSURES  
(INCLUDING SPRUCE CREEK PHASES 1 & 2)

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"	6 - Black on Orange
W21-5aL			48"x48"	4 - Black on Orange
W21-5aR			48"x48"	4 - Black on Orange
W21-5bL			48"x48"	4 - Black on Orange
W21-5bR			48"x48"	4 - Black on Orange
W21-5bL (500)			48"x48"	4 - Black on Orange
W21-5bR (500)			48"x48"	4 - Black on Orange

TEMPORARY SINGLE AND DOUBLE LANE CLOSURES  
(INCLUDING SPRUCE CREEK PHASES 1A, 2A & 2B)

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"	5 - Black on Orange
R2-1(35)			48"x60"	1 - Black on White
R2-1(60)			48"x60"	4 - Black on White
R2-6aP			36"x24"	5 - Black on White
R2-12			36"x54"	4 - Black on White
W3-2			48"x48"	2 - Black on Orange
W3-4			48"x48"	4 - Black on Orange
W3-5(35)			48"x48"	1 - Black on Orange
W3-5(60)			48"x48"	4 - Black on Orange
W4-2L			48"x48"	8 - Black on Orange
W4-2R			48"x48"	4 - Black on Orange
W13-4P			36"x36"	1 - Black on Orange

TEMPORARY SINGLE AND DOUBLE LANE CLOSURES CONTINUED  
(INCLUDING SPRUCE CREEK PHASES 1A, 2A & 2B)

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
W20-1 (AHEAD)			48"x48"	2 - Black on Orange
W20-5a			48"x48"	4 - Black on Orange
W20-5a (AHEAD)			48"x48"	2 - Black on Orange
W20-5L			48"x48"	4 - Black on Orange
W20-5R			48"x48"	4 - Black on Orange
W20-5L (AHEAD)			48"x48"	1 - Black on Orange
W20-5R (AHEAD)			48"x48"	2 - Black on Orange
CS-4			48"x48"	1 - Black on Orange

Date: 1/14/2022

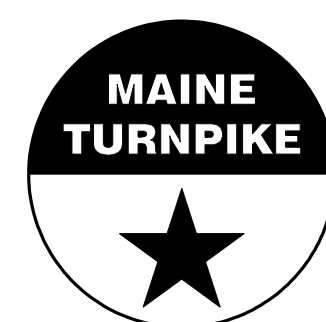
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Scale: NOT TO SCALE

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. 2022.04  
2022 SOUTHERN BRIDGE REPAIRS  
MAINTENANCE OF TRAFFIC DETAILS (2 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	10/29/21	Checked	MDS	10/29/21
Drawn	JAR	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: Ralph Norwood, IV

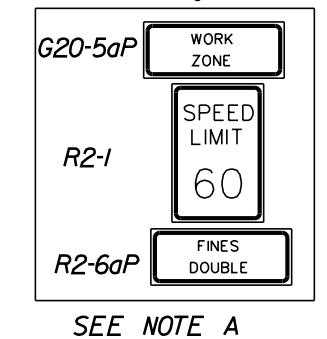
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 5  
5 OF 117

Date: 1/14/2022

NOTE A:  
FOR EASEL SET UP ONLY, THIS SIGN IS NOT BRACKETED, ONE SIGN ASSEMBLY IS PLACED AT THE END OF THE TAPER.

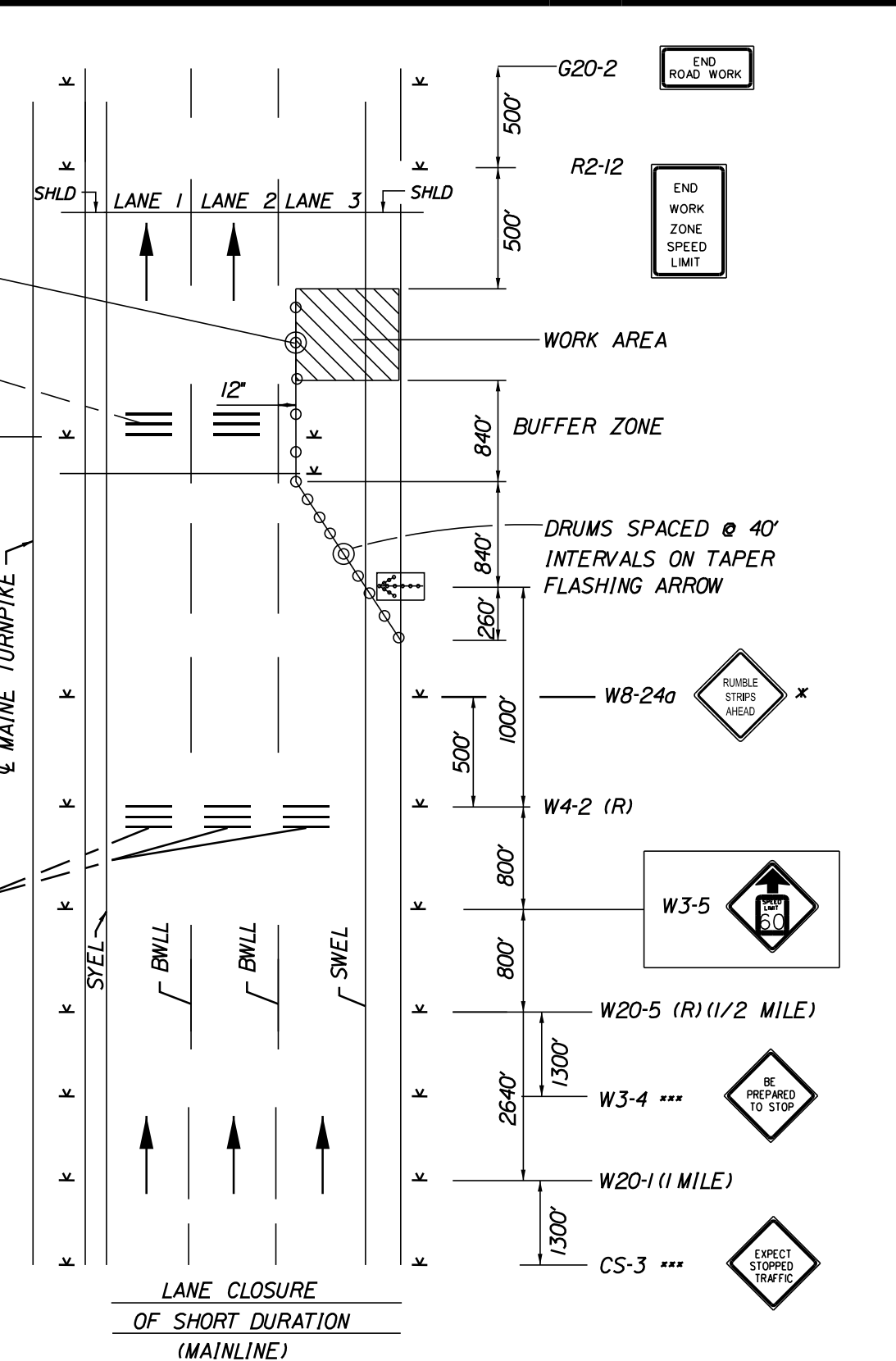
DRUMS SPACED @ 80' INTERVALS ON TANGENT  
\* RUMBLE STRIPS SEE NOTE 1



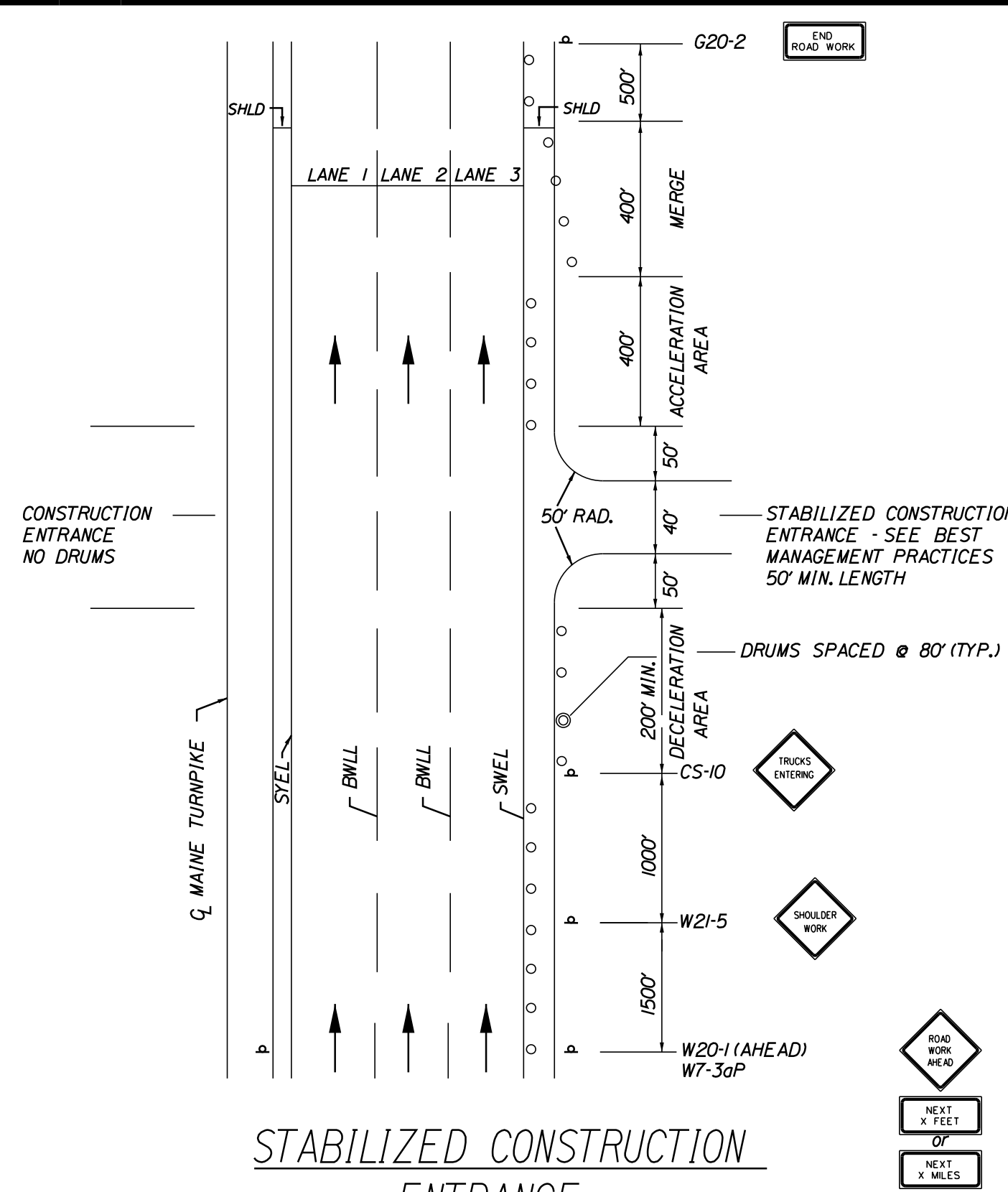
SEE NOTE A

\* RUMBLE STRIPS SEE NOTES 1&2

\* OPTIONAL  
\*\*\* TO BE USED DURING STOPPAGES OF TRAFFIC

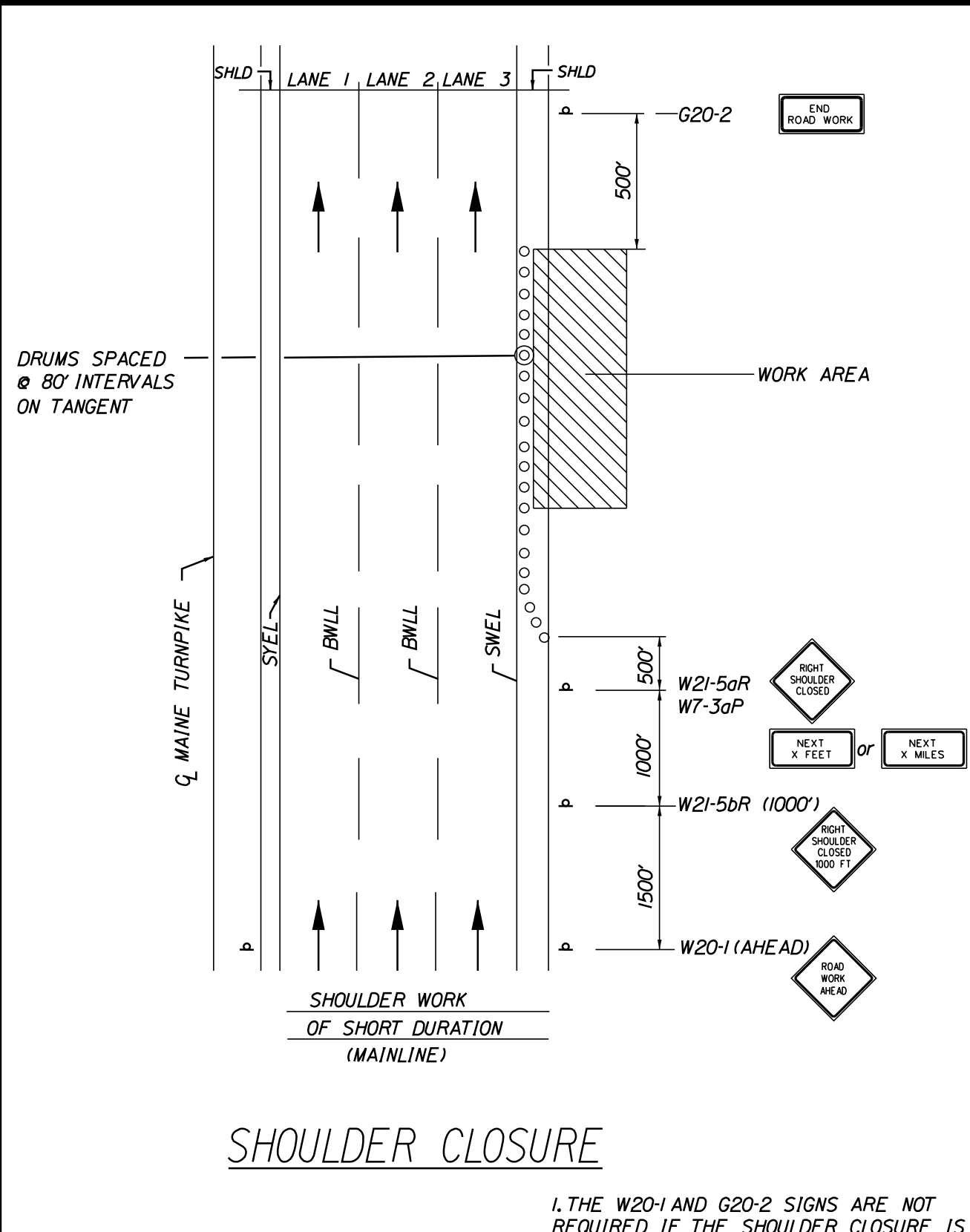


SINGLE LANE CLOSURE - SIGNS ON EASELS



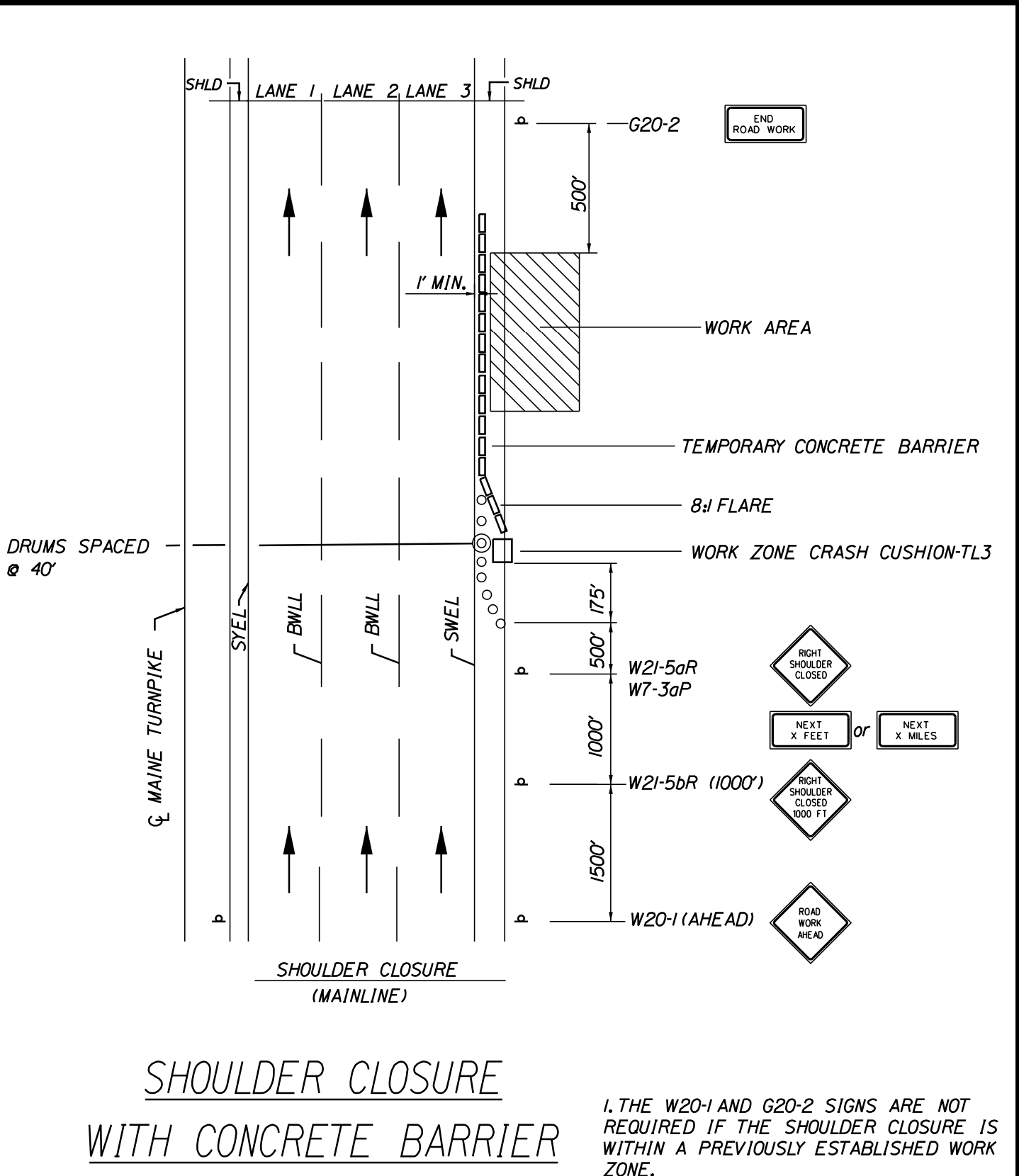
STABILIZED CONSTRUCTION ENTRANCE

1. SIGN G20-2 IS NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.



SHOULDER CLOSURE

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.

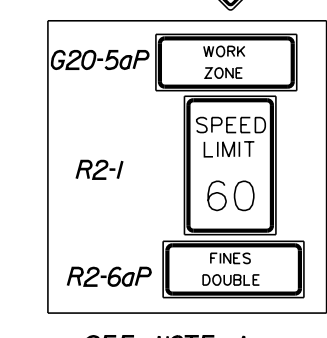


SHOULDER CLOSURE WITH CONCRETE BARRIER

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.  
2. ONLY ONE SHOULDER CLOSURE PERMITTED PER BOUND AT ONE TIME.

NOTE A:  
FOR POST MOUNTED SIGN SETUP UNCOVER SIGNS ADJACENT TO OPEN LANE FOR SHORT TERM LANE CLOSURE (LESS THAN 24 HOURS); UNCOVER BOTH SIGNS FOR PERMANENT LANE CLOSURE (GREATER THAN 24 HOURS).

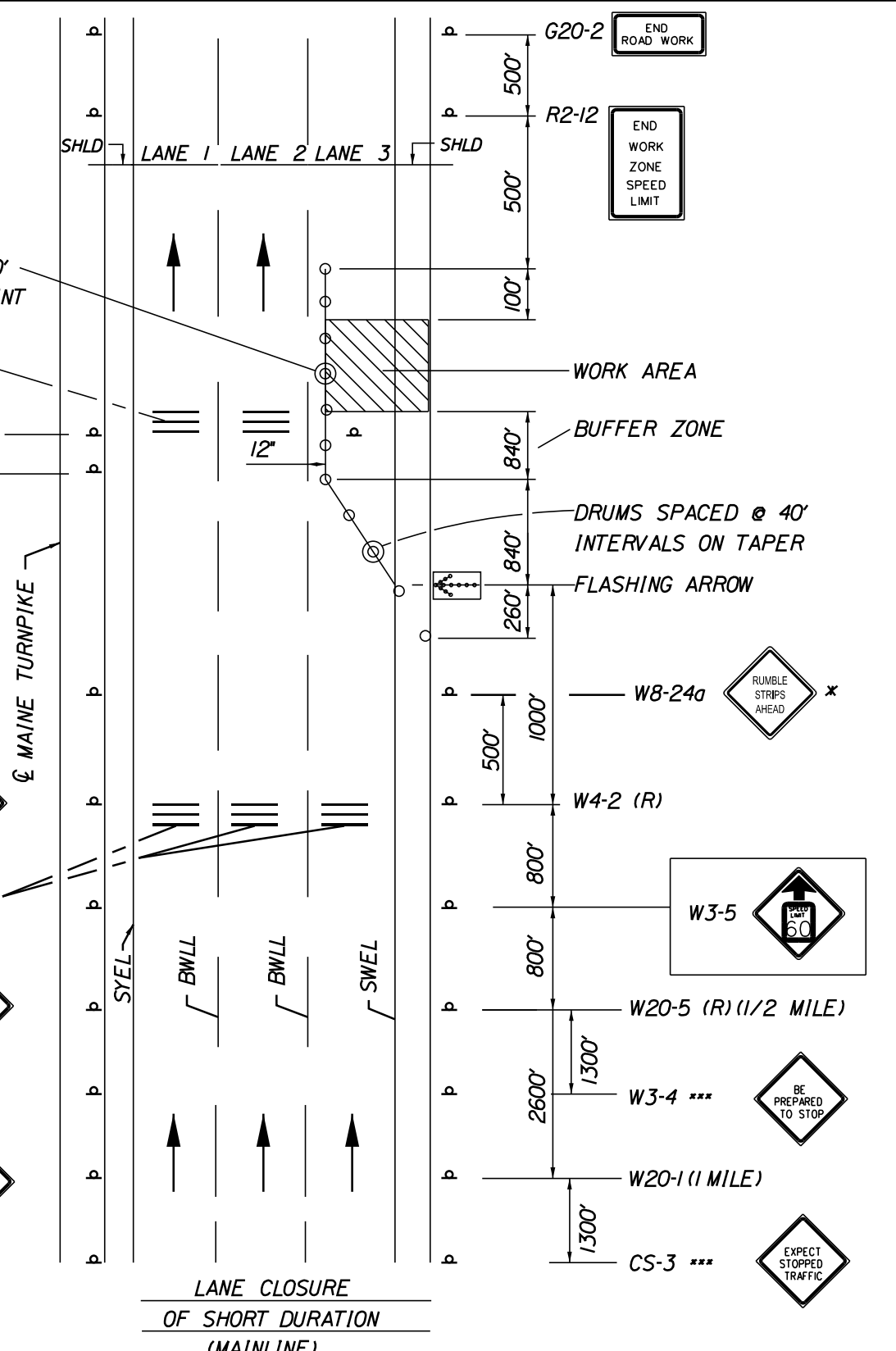
DRUMS SPACED @ 80' INTERVALS ON TANGENT  
\* RUMBLE STRIPS SEE NOTE 1



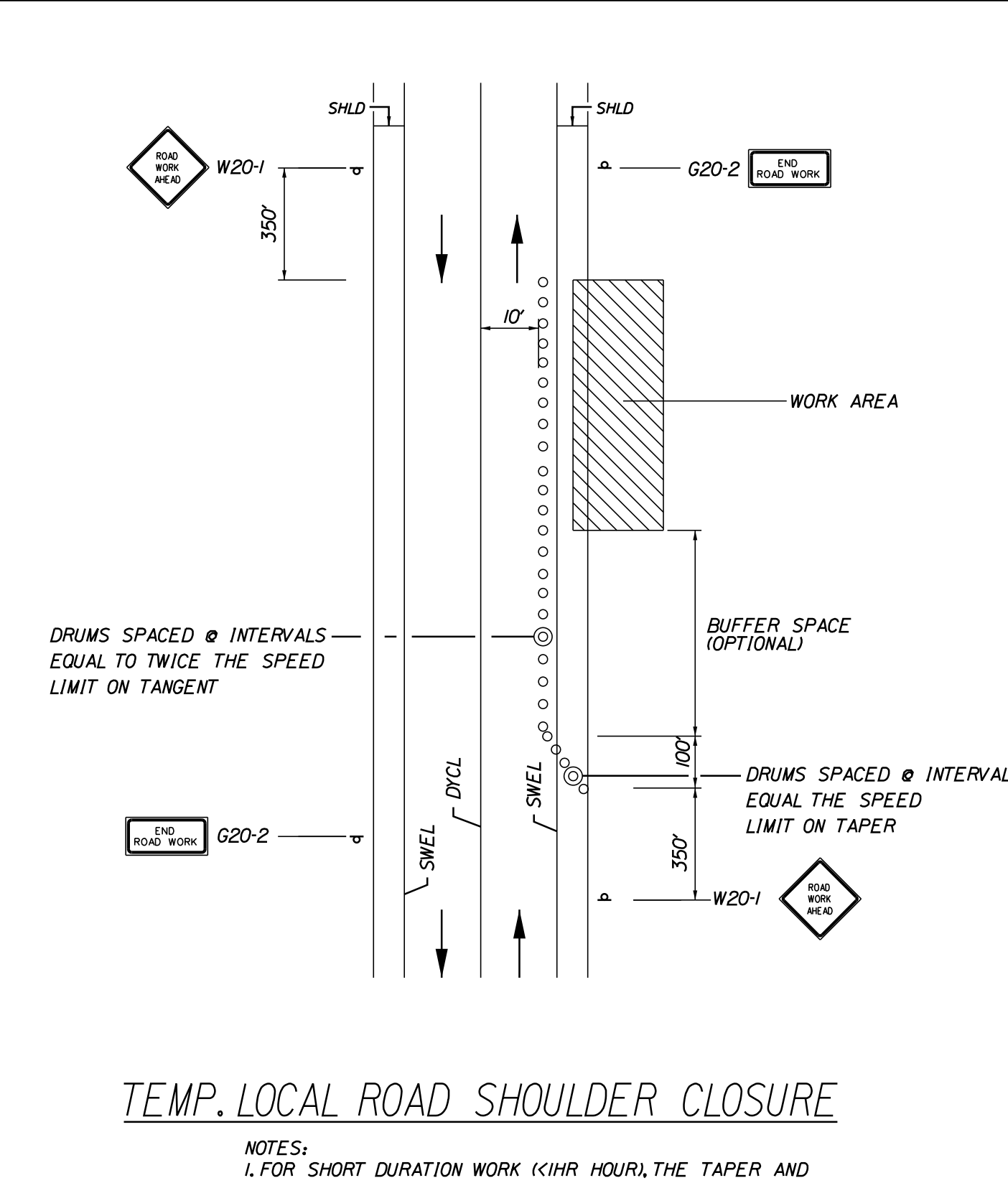
SEE NOTE A

\* RUMBLE STRIPS SEE NOTES 1&2

\* OPTIONAL  
\*\*\* TO BE USED DURING STOPPAGES OF TRAFFIC

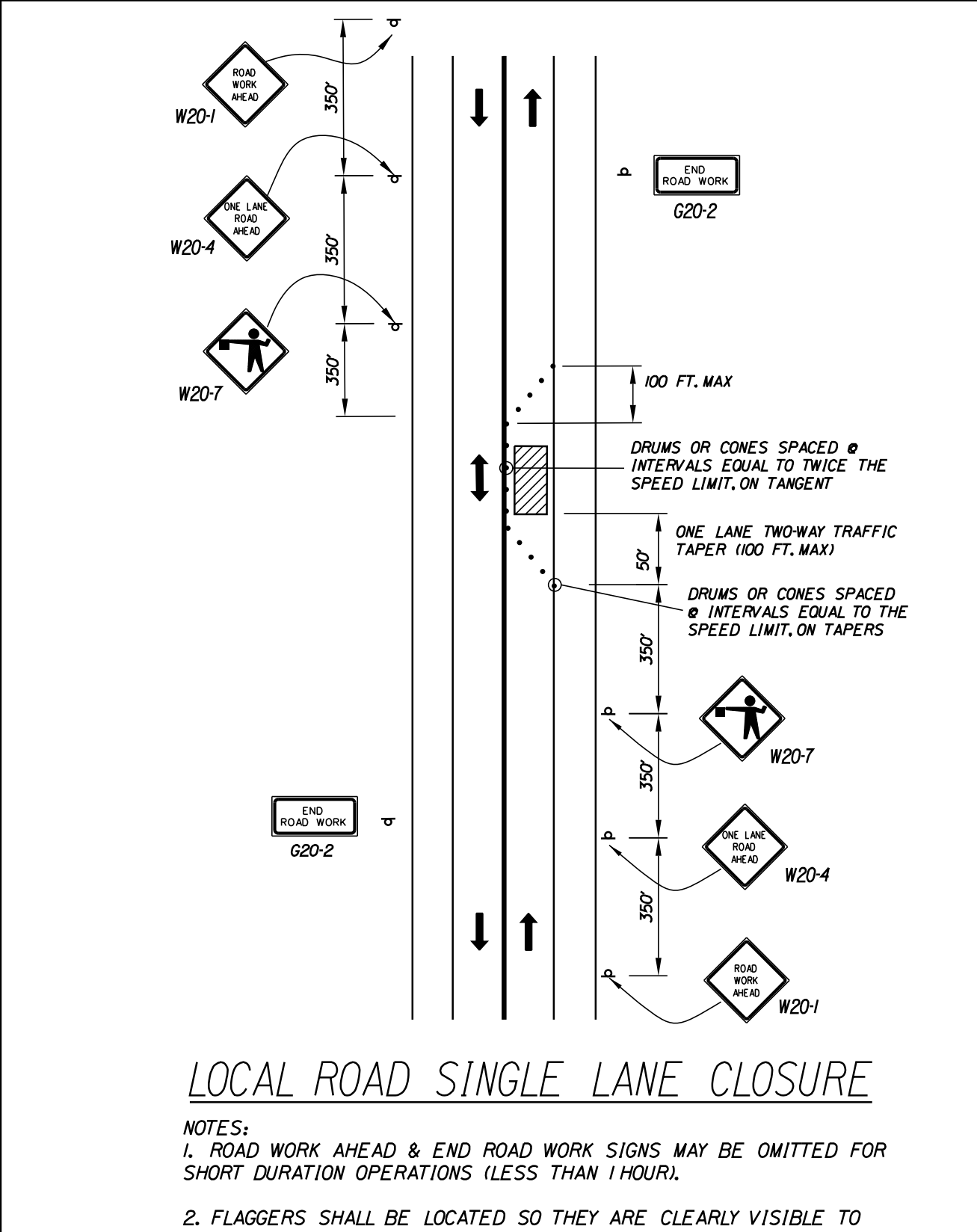


SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP



TEMP. LOCAL ROAD SHOULDER CLOSURE

NOTES:  
1. FOR SHORT DURATION WORK (<1HR HOUR), THE TAPER AND CHANNELIZATION DEVICES MAY BE OMITTED IF SHADOW VEHICLE IS PRESENT WITH ACTIVATED HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.



LOCAL ROAD SINGLE LANE CLOSURE

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. SIGN SPACING ASSUMES LOCAL ROAD SPEED IS 40 MPH OR LESS.

- 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)
  - 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 W8-2a SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS.

Filename: ...006\_workzone\_03.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	10/29/21	Checked	MDS	10/29/21
Drawn	JAR	10/29/21	In Charge of	TSB	10/29/21

VANASSE HANGEN BRUSTLIN, INC.  
500 Southborough Dr.  
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FAX (207) 253-5596

**THE GOLD STAR MEMORIAL HIGHWAY**

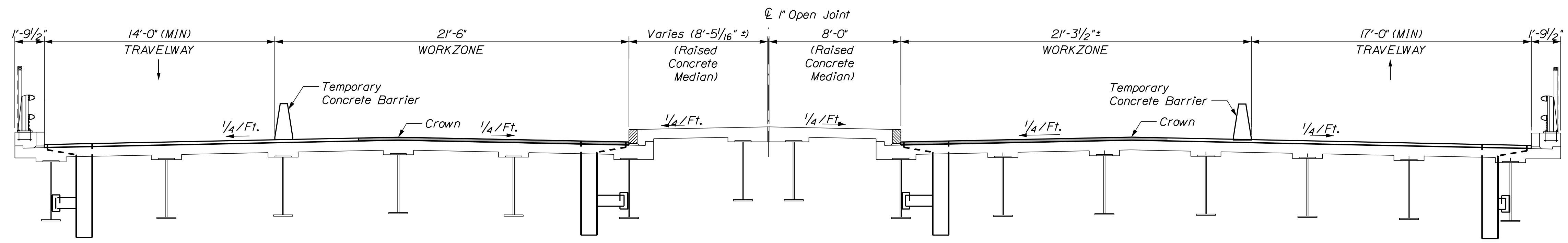
MTA PROJECT MANAGER: Ralph Norwood, IV

MTA PROJECT NO. 2022.04  
2022 SOUTHERN BRIDGE REPAIRS  
MAINTENANCE OF TRAFFIC DETAILS (3 OF 3)

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 6  
6 OF 117

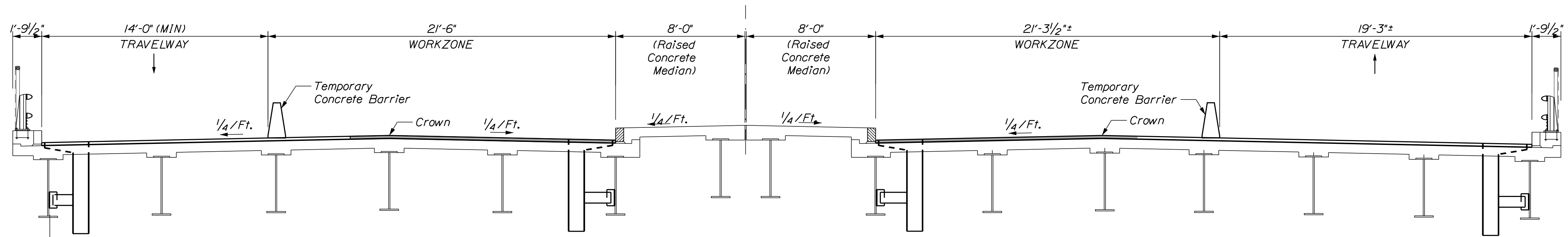
Date: 1/14/2022



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SECTION @ STA. 87+42

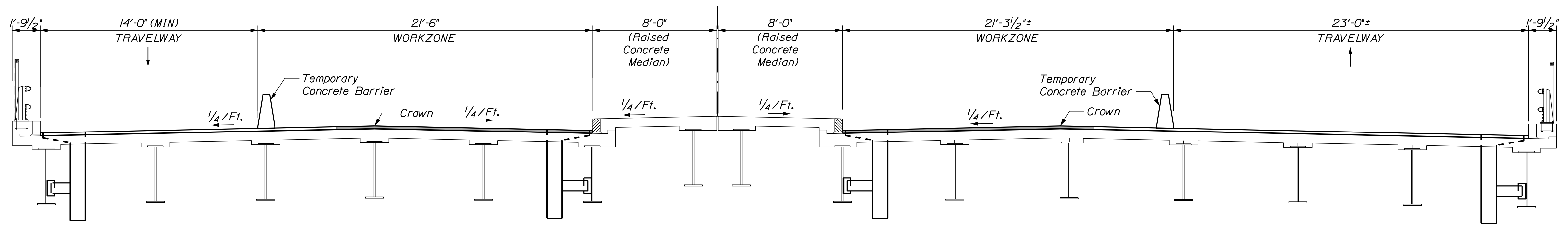
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WESTBOUND  
Not to scale

SECTION @ STA. 88+20

EASTBOUND  
Not to scale



WESTBOUND  
Not to scale

SECTION @ STA. 89+37

EASTBOUND  
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No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
	MEB	10/29/21		GME	10/29/21
	Drawn	DPD	In Charge of	TSB	10/29/21

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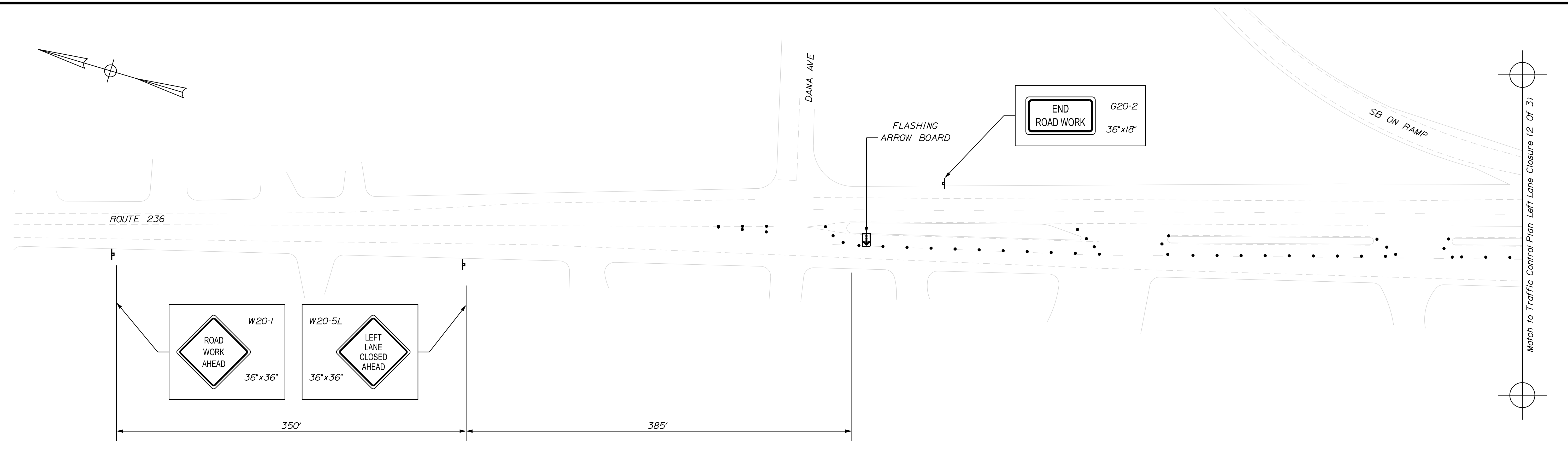
## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 236 UNDERPASS  
AT MM 1.25 IN YORK, ME  
LEFT LANE CLOSURE CRITICAL SECTIONS

VHB: 55345.00      SHEET NUMBER: 7  
CONTRACT: 2022.04      7 OF 117

Date: 1/14/2022



ROUTE 236 LEFT LANE AND MEDIAN CLOSURE

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
CS-3		7" 7"	4" 4"	48"x48" 1 - Black on Orange *
G20-2		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		36"x18" 2 - Black on Orange
RI-1				48"x48" 2 - Red on White
RI-2				36"x36"x36" 1 - Red on White
WI-4R				36"x36" 4 - Black on Orange
W3-1				48"x48" 2 - Black/Red on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W3-4		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x48" 1 - Black on Orange *
W4-2(L)				36"x36" 1 - Black on Orange
W20-1 (AHEAD)				36"x36" 2 - Black on Orange
				48"x48" 6 - Black on Orange
W20-5L				36"x36" 1 - Black on Orange

\* See Special Provision Section 652 for Requirements for the Use of CS-3 and W3-4

LEGEND	
	Detour Sign on Post Support
	Type 3 Barricade with Detour Sign
	Type 3 Barricade
	Channelizing Device
	Flashing Arrow Board

No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	GME	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 ROUTE 236 UNDERPASS  
 AT MM 1.25 IN YORK, ME  
 TRAFFIC CONTROL PLAN LEFT LANE CLOSURE  
 (1 OF 3)

VHB: 55345.00  
 CONTRACT: 2022.04

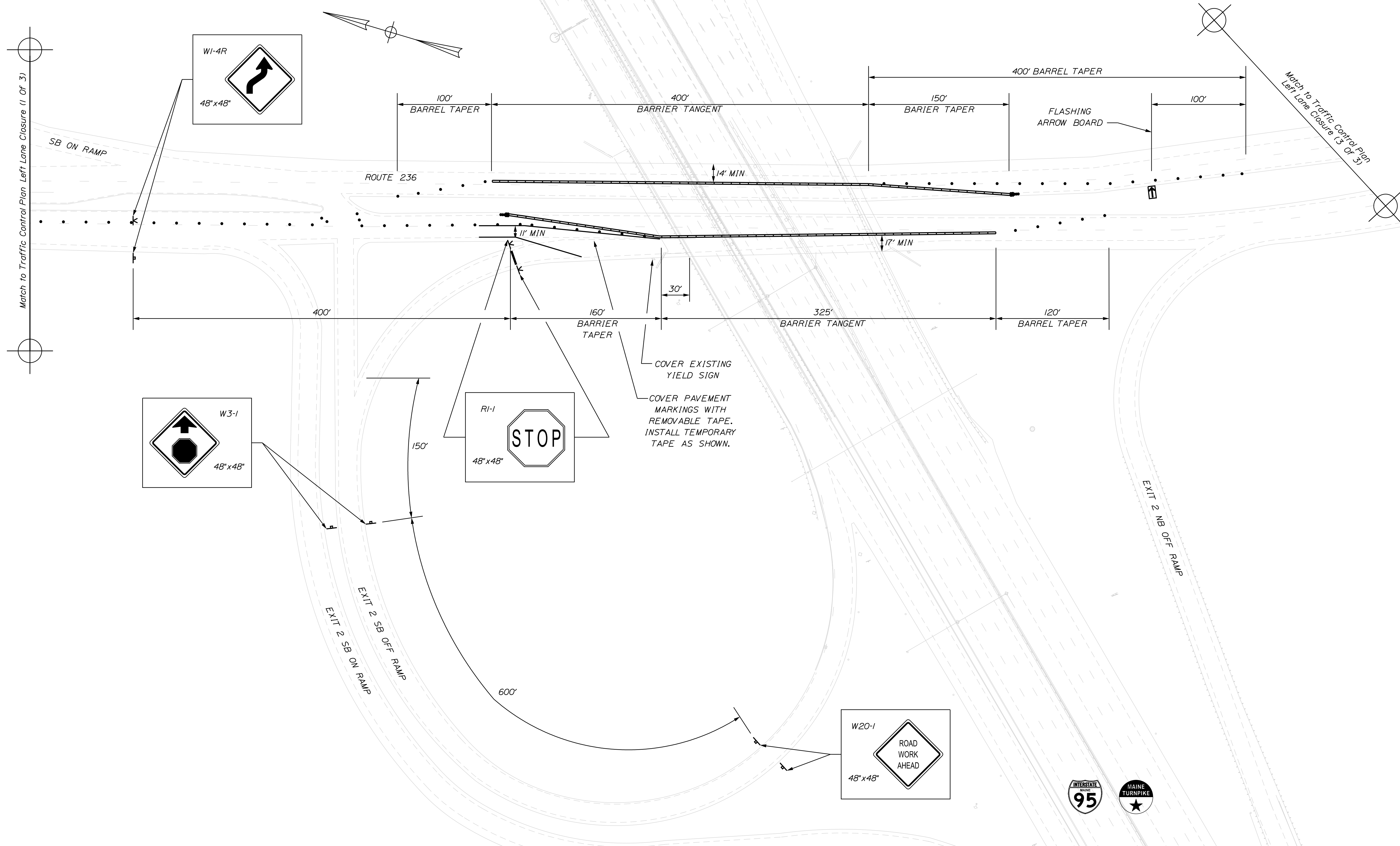
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**8 OF 117**

Filename: ...\\008\_TCP\_01.dgn



Date: 1/14/2022

Filename: ... \009\_TCP\_02.dwg



Scale: 1" = 50'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21		GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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 500 Southborough Dr.  
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 South Portland, ME 04106  
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THE GOLD STAR MEMORIAL HIGHWAY

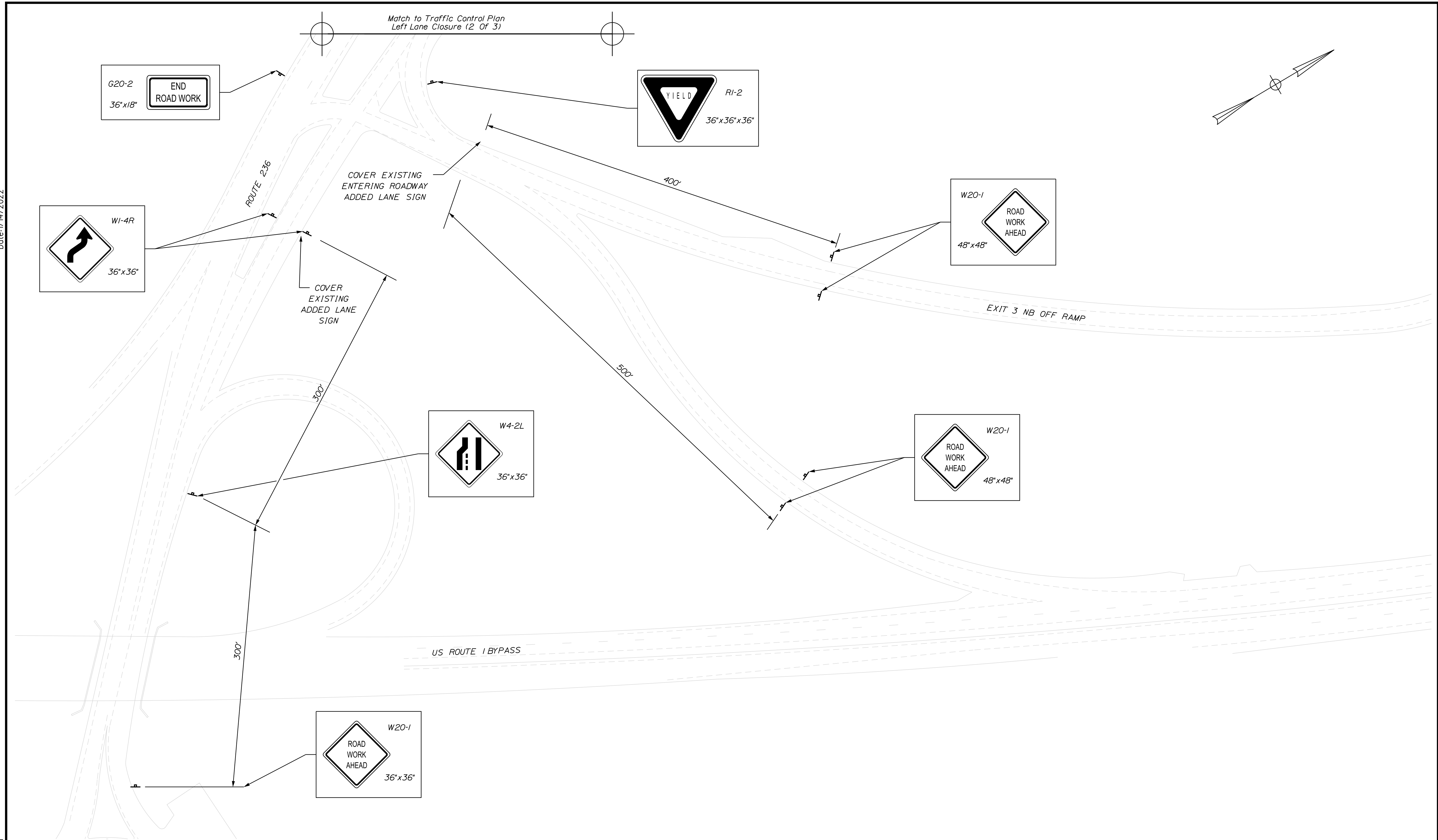
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 ROUTE 236 UNDERPASS  
 AT MM 1.25 IN YORK, ME  
 TRAFFIC CONTROL PLAN LEFT LANE CLOSURE  
 (2 OF 3)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 9  
 9 OF 117


Date: 1/14/2022



Scale: 1" = 50'-0"

No.	Revision	By	Date

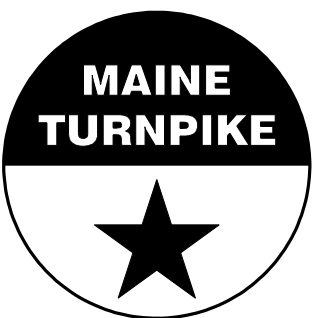
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

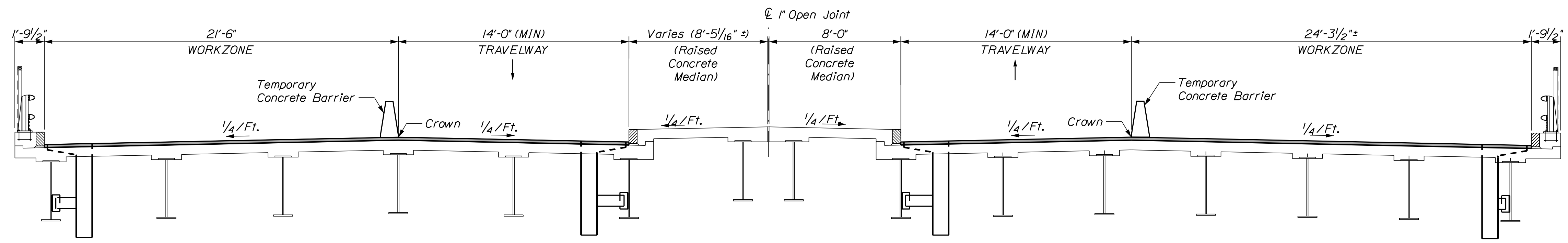
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 236 UNDERPASS  
AT MM 1.25 IN YORK, ME  
TRAFFIC CONTROL PLAN LEFT LANE CLOSURE  
(3 OF 3)

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 10  
10 OF 117

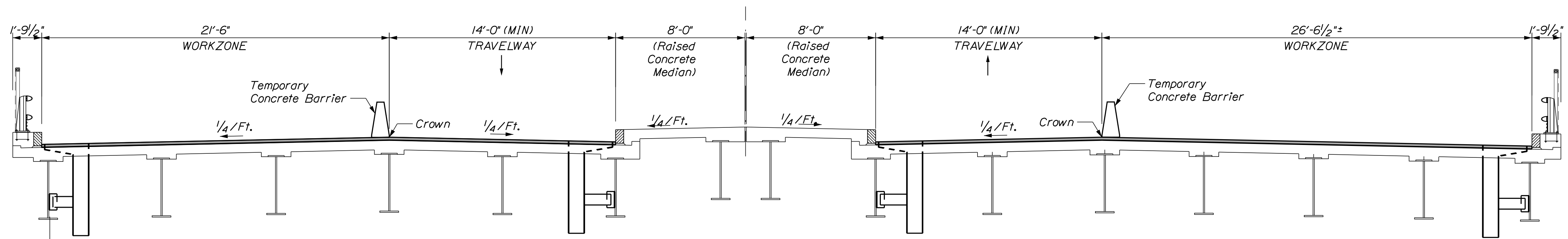
Date: 1/14/2022



WESTBOUND  
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SECTION @ STA. 87+42

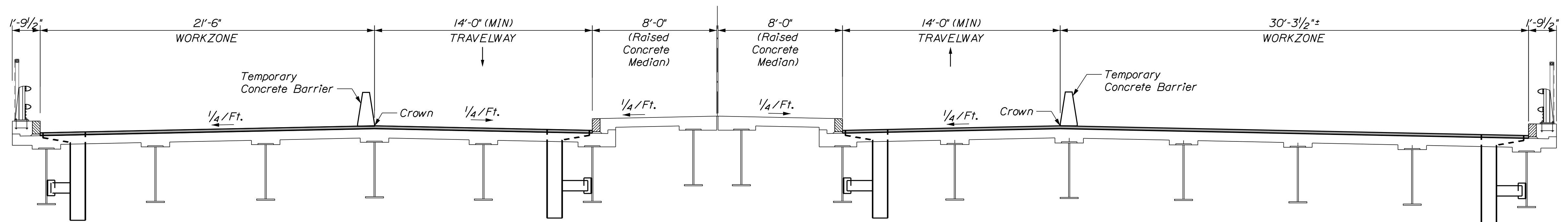
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WESTBOUND  
Not to scale

SECTION @ STA. 88+20

EASTBOUND  
Not to scale



WESTBOUND  
Not to scale

SECTION @ STA. 89+37


EASTBOUND  
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Filename: ...011\_BTTyp\_Traffic\_02.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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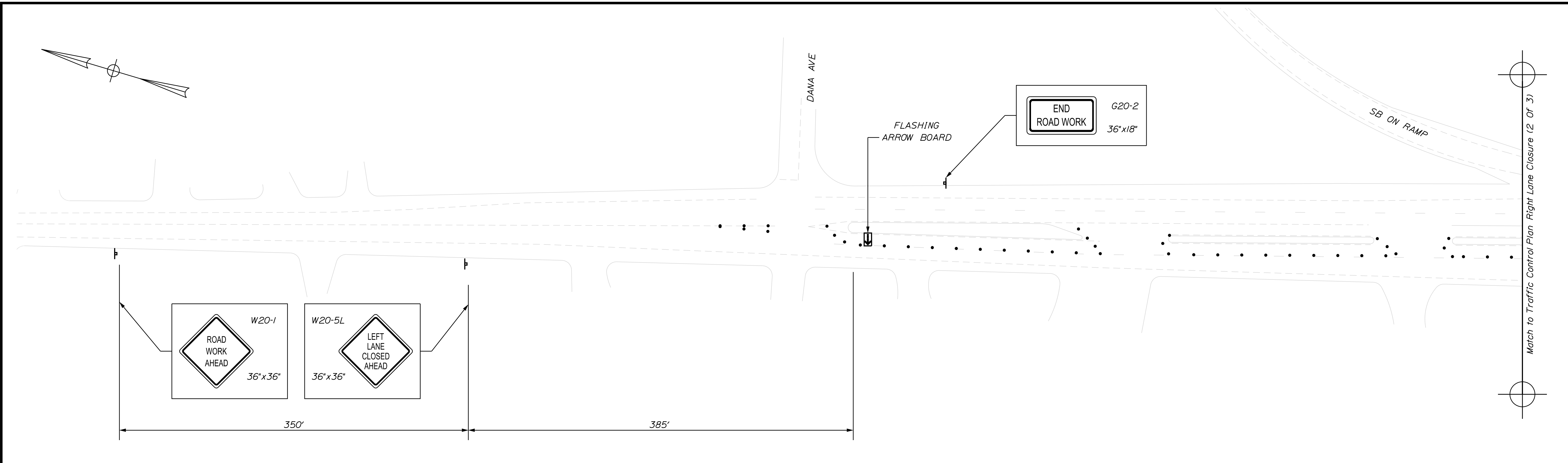
## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 236 UNDERPASS  
AT MM 1.25 IN YORK, ME  
RIGHT LANE CLOSURE CRITICAL SECTIONS

VHB: 55345.00      SHEET NUMBER: 11  
CONTRACT: 2022.04      11 OF 117

Date: 1/14/2022



ROUTE 236 RIGHT LANE CLOSURE

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
CS-3		7" 7"	48"x48"	1 - Black on Orange *
G20-2		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		2 - Black on Orange
RI-1			48"x48"	2 - Red on White
RI-2			36"x36"x36"	1 - Red on White
WI-4L			36"x36"	2 - Black on Orange
W3-1			48"x48"	2 - Black/Red on Orange

CONSTRUCTION SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
W3-4		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		1 - Black on Orange *
W20-1 (AHEAD)			36"x36" 48"x48"	2 - Black on Orange 6 - Black on Orange
W20-5L			36"x36"	1 - Black on Orange

\* See Special Provision Section 652 for Requirements for the Use of CS-3 and W3-4

LEGEND	
	Detour Sign on Post Support
	Type 3 Barricade with Detour Sign
	Type 3 Barricade
	Channelizing Device
	Flashing Arrow Board

No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

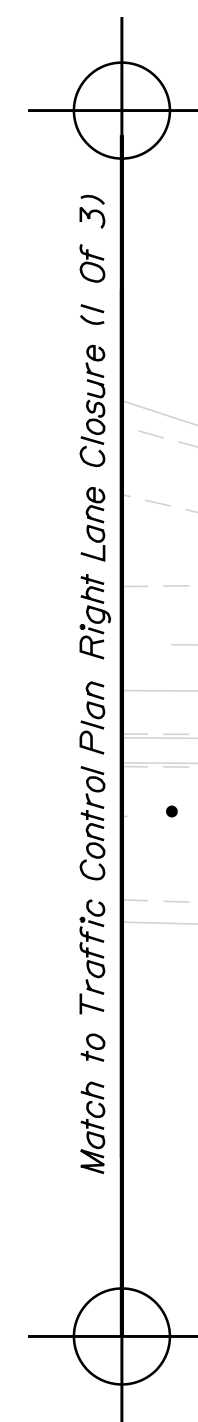
MTA PROJECT NO. 2022.04  
 ROUTE 236 UNDERPASS  
 AT MM 1.25 IN YORK, ME  
 TRAFFIC CONTROL PLAN RIGHT LANE CLOSURE  
 (1 OF 3)

VHB: 55345.00  
 CONTRACT: 2022.04

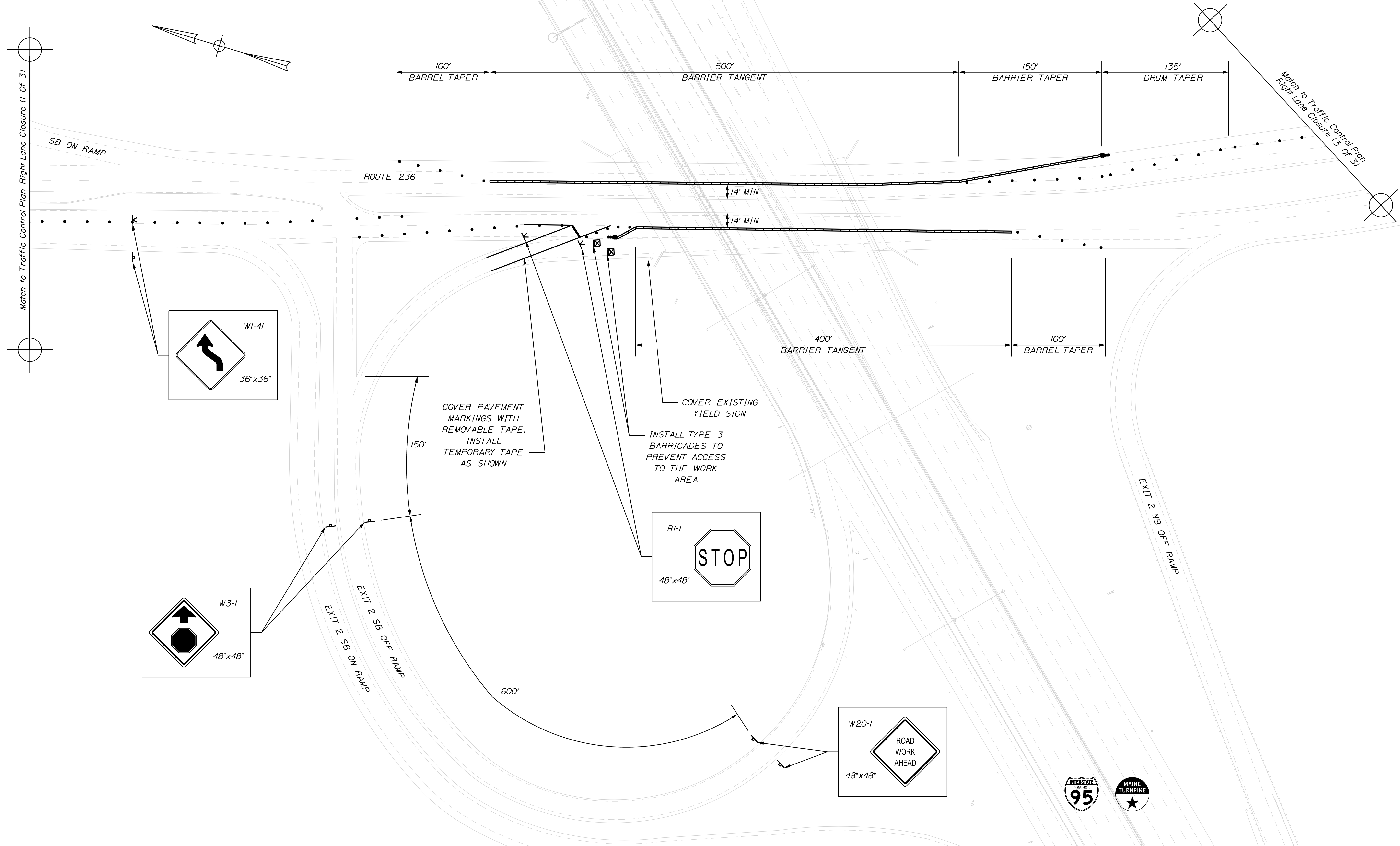
SHEET NUMBER: 12  
 12 OF 117

Filename: ...012\_TCP\_04.dgn

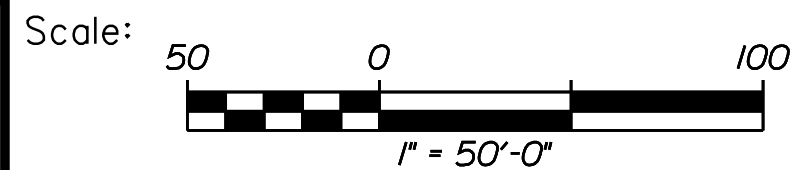
Date: 1/14/2022



Match to Traffic Control Plan Right Lane Closure (1 of 3)




Filename: ...013\_TCP\_05.dwg



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

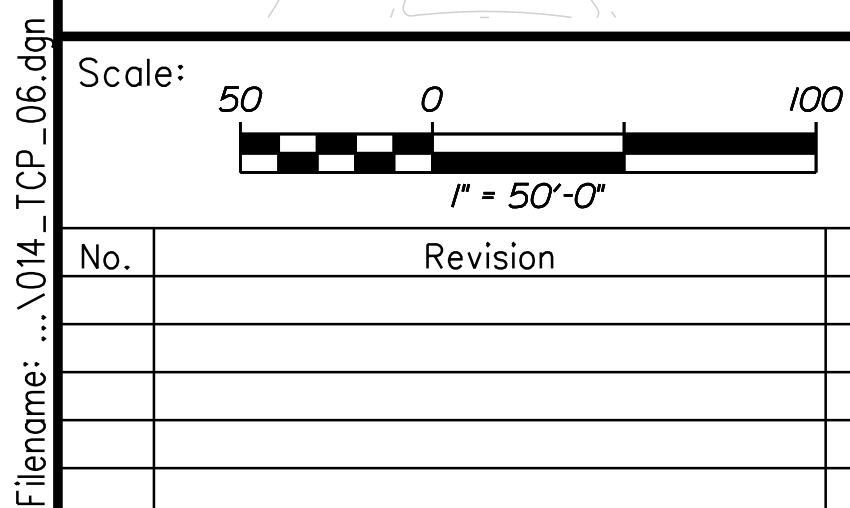
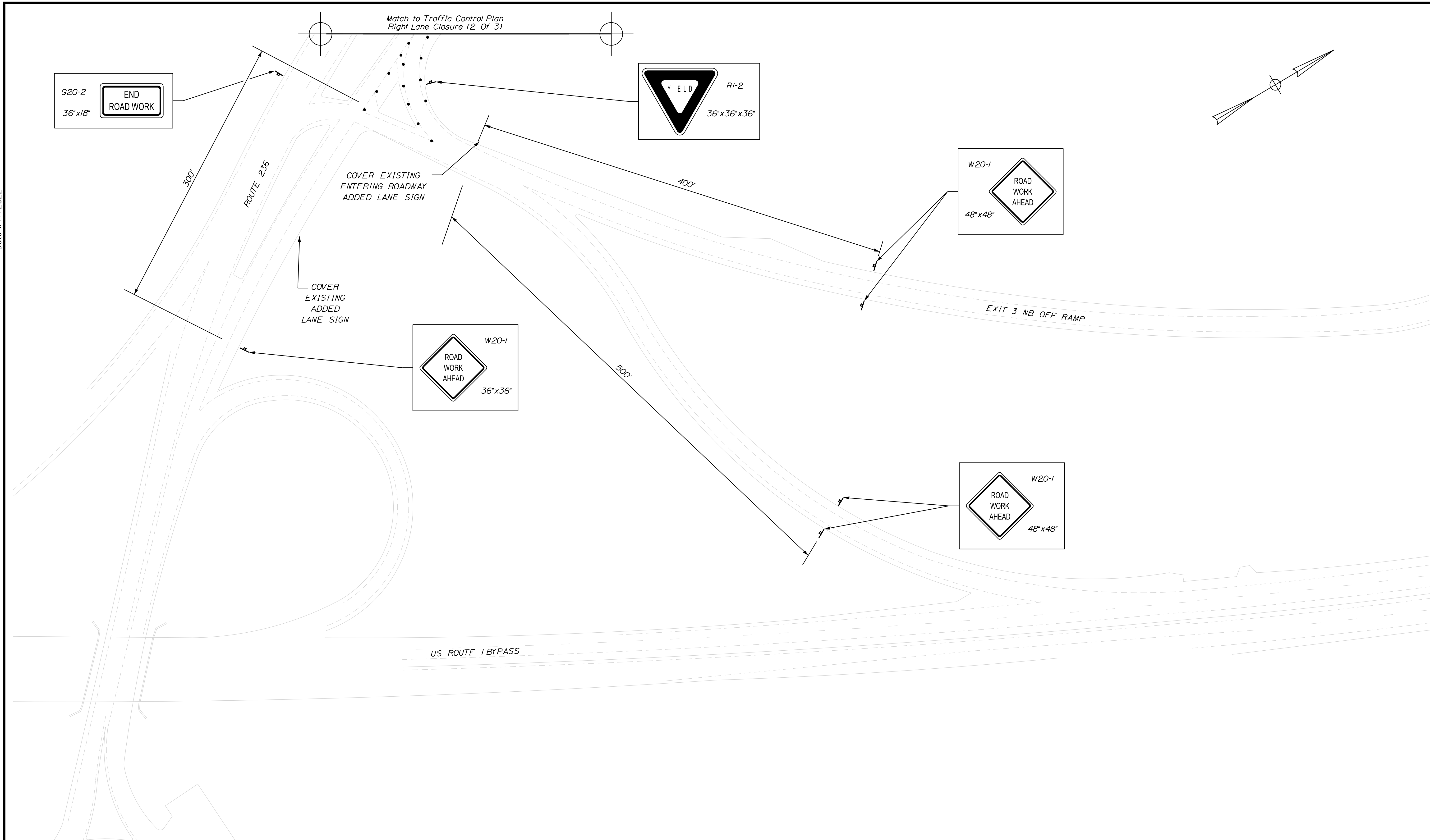
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 ROUTE 236 UNDERPASS  
 AT MM 1.25 IN YORK, ME  
 TRAFFIC CONTROL PLAN RIGHT LANE CLOSURE  
 (2 OF 3)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **13**  
**13 OF 117**

Date: 1/14/2022



Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 ROUTE 236 UNDERPASS  
 AT MM 1.25 IN YORK, ME  
 TRAFFIC CONTROL PLAN RIGHT LANE CLOSURE  
 (3 OF 3)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **14**  
 14 OF 117

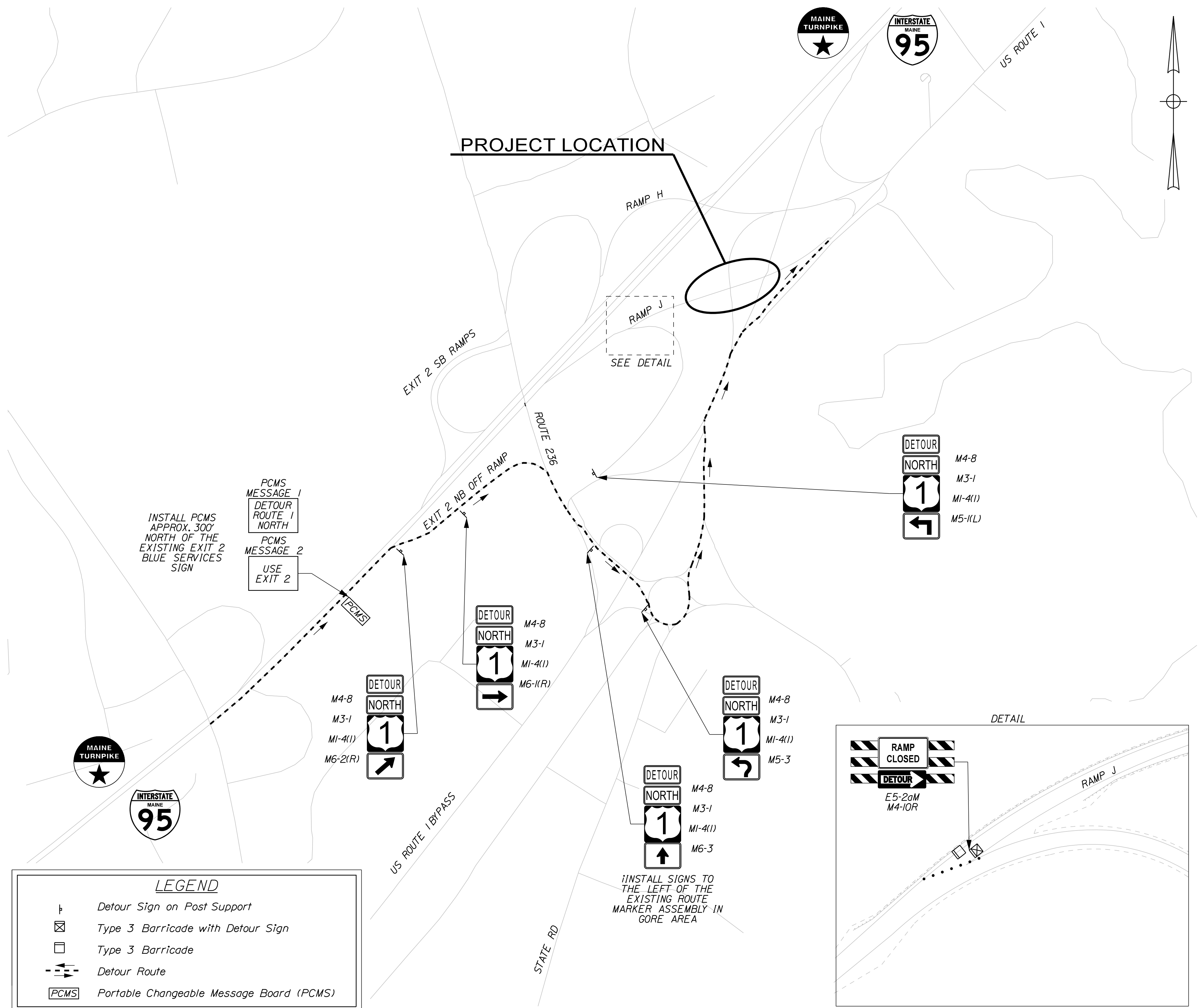
DETOUR FOR ROUTE 1 (RAMP J) UNDERPASS CLOSURE

DETOUR SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
M1-4(I)		SHSB	36"x36"	5 - Black on White
M3-1			36"x18"	5 - Black on White
M4-8			30"x15"	5 - Black on Orange
M4-10R			48"x18"	1 - Black on Orange on Black
M5-1(L)			30"x21"	1 - Black on White
M5-3			30"x21"	1 - Black on White
M6-1(R)			30"x21"	1 - Black on White
M6-2(R)			30"x21"	1 - Black on White
M6-3			30"x21"	1 - Black on White
E5-2aM			48"x36"	1 - Black on Orange

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

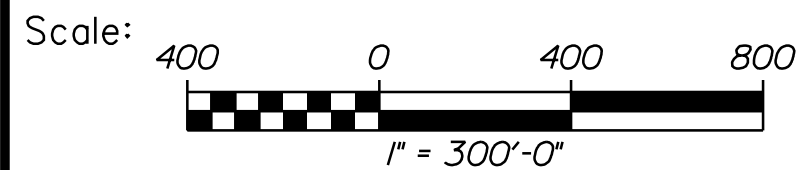
CONSTRUCTION NOTE:

Detour signs shall not be installed more than two weeks prior to the start of the detour and all detour and other traffic control materials shall be removed within two weeks of the end of the detour.



Date: 1/14/2022

Filename: ...015\_Detour\_01.dgn



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MLG	10/29/21	Checked	MDS	10/29/21
Drawn	JAR	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 RAMP "J" UNDERPASS  
 AT MM 1.50 IN YORK, ME  
 DETOUR PLAN

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 15  
 15 OF 117

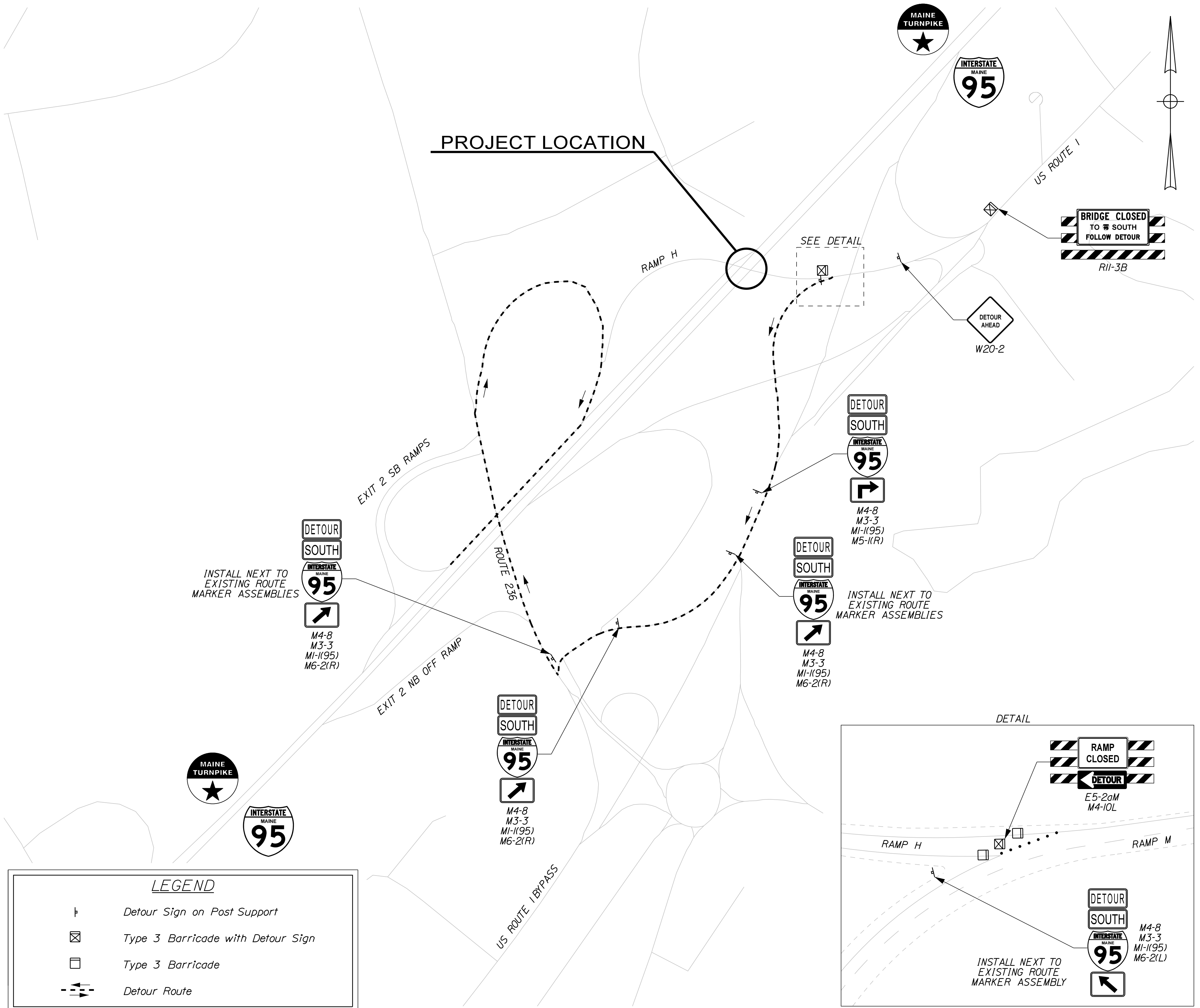
DETOUR FOR ROUTE 1 (RAMP H) UNDERPASS CLOSURE

DETOUR SIGN SUMMARY					
Sign	Text Dimensions (Inches)		Size	Quantity and Color	
	Letter Height	Vertical Spacing			
MI-1(95)		SHSB	36"x36"	5 - Blue / Red / White	
M3-3			36"x18"	5 - White on Blue	
M4-8			30"x15"	5 - Black on Orange	
M4-10L			48"x18"	1 - Black on Orange on Black	
M5-1(R)			30"x21"	1 - White on Blue	
M6-2(L)			30"x21"	1 - White on Blue	
M6-2(R)			30"x21"	3 - White on Blue	
E5-2aM		8E 8D	7" 6" 7"	48"x36"	1 - Black on Orange
R11-3B		6" 4"/5"/4" 4"	3.38" 3.38"	60"x30"	1 - Black / Red / Blue on White
W20-2		SHSB	48"x48"	1 - Black on Orange	

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

CONSTRUCTION NOTE:

Detour signs shall not be installed more than two weeks prior to the start of the detour and all detour and other traffic control materials shall be removed within two weeks of the end of the detour.

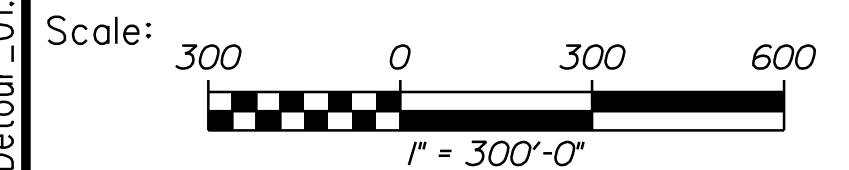


LEGEND

- Detour Sign on Post Support
- Type 3 Barricade with Detour Sign
- Type 3 Barricade
- Detour Route

Date: 1/14/2022

Filename: ...016\_Detour\_01.dgn



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
	MLG	10/29/21		MDS	10/29/21
	Drawn	JAR	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 ROUTE 1 (RAMP H) UNDERPASS  
 AT MM 1.60 IN YORK, ME  
 DETOUR PLAN

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 16  
 16 OF 117

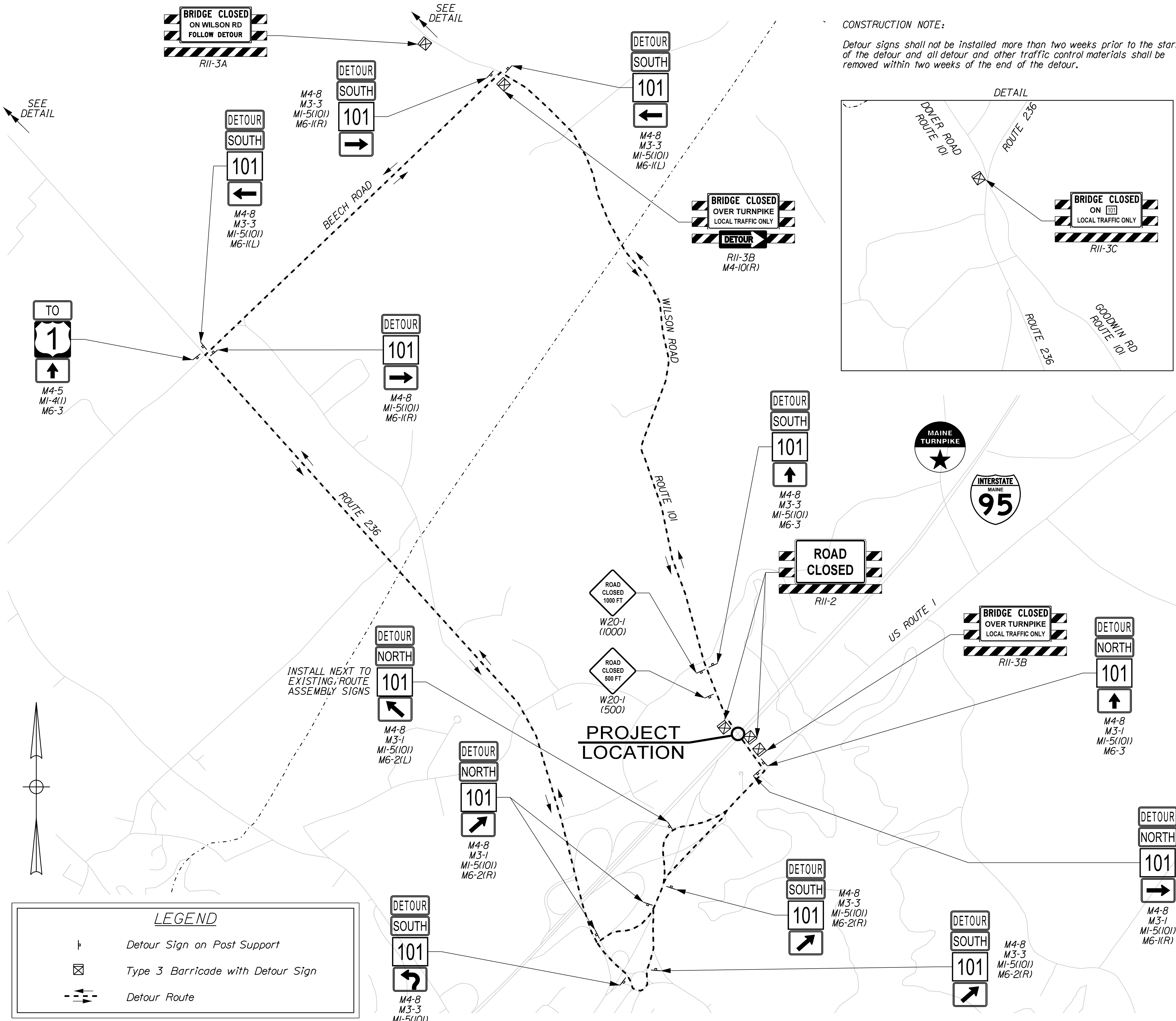


DETOUR FOR WILSON ROAD UNDERPASS CLOSURE

DETOUR SIGN SUMMARY

Sign	Text Dimensions (Inches)		Size	Quantity and Color	
	Letter Height	Vertical Spacing			
M1-4(1)		SHSB	24"x24"	1 - Black on White	
M1-5(101)			30"x24"	13 - Black on White	
M3-1			24"x12"	5 - Black on White	
M3-3			24"x12"	7 - Black on White	
M4-5			24"x12"	1 - Black on White	
M4-8			24"x12"	13 - Black on Orange	
M4-10R			48"x18"	1 - Black on Orange on Black	
M5-3			21"x15"	1 - Black on White	
M6-1(L)			21"x15"	2 - Black on White	
M6-1(R)			21"x15"	3 - Black on White	
M6-2(L)			21"x15"	2 - Black on White	
M6-2(R)			21"x15"	3 - Black on White	
M6-3			21"x15"	3 - Black on White	
W20-1 (1000)			36"x36"	1 - Black on Orange	
W20-1 (500)			36"x36"	1 - Black on Orange	
R11-2			48"x30"	2 - Black on White	
R11-3A		6" 5" 4"	3.38" 3.38"	60"x30"	1 - Black on White
R11-3B		6" 5" 4"	3.38" 3.38"	60"x30"	2 - Black on White
R11-3C		6" 5" 4"	3.38" 3.38"	60"x30"	1 - Black on White

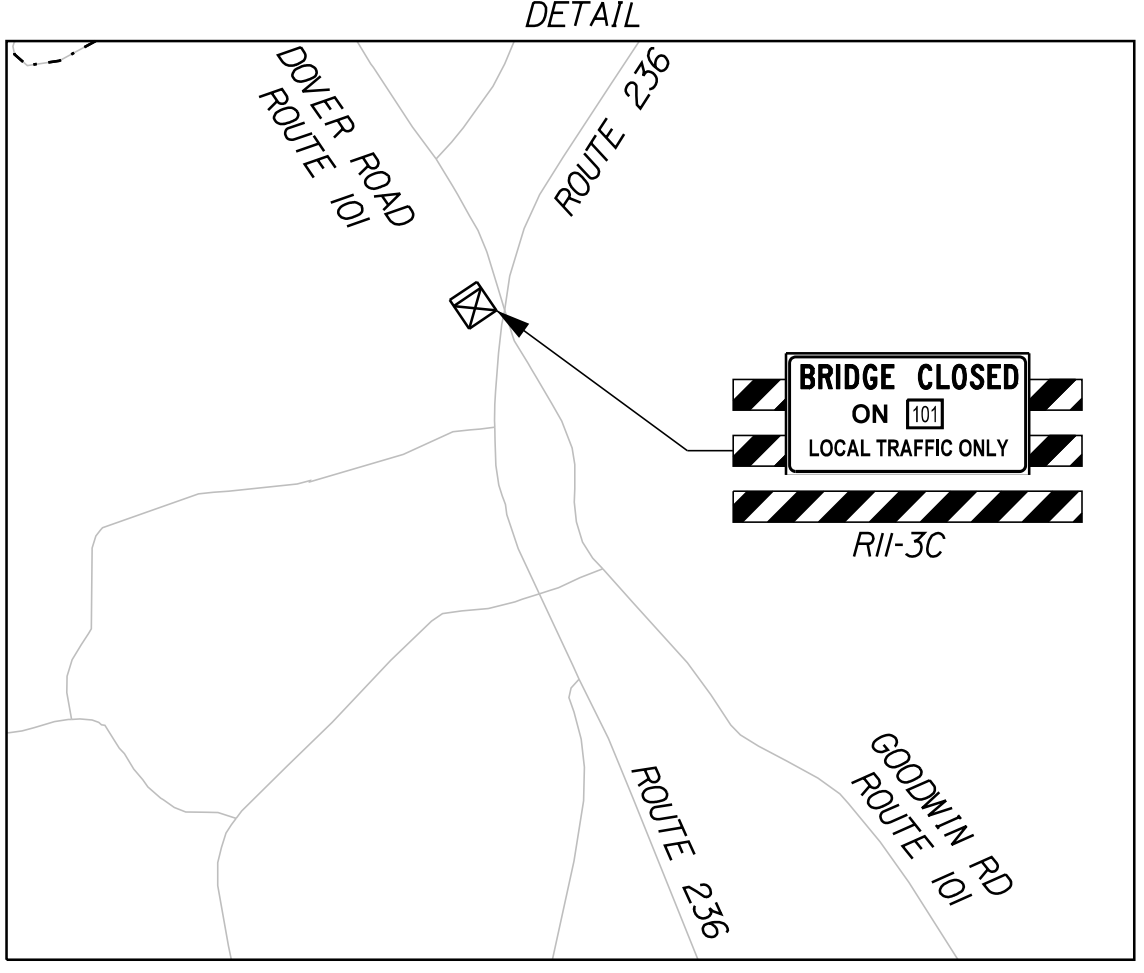
SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.



**LEGEND**

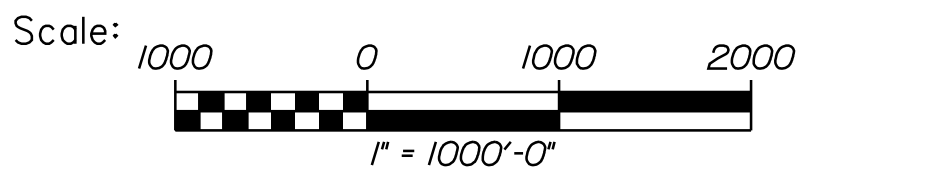
- Detour Sign on Post Support
- Type 3 Barricade with Detour Sign
- Detour Route

**CONSTRUCTION NOTE:**  
 Detour signs shall not be installed more than two weeks prior to the start of the detour and all detour and other traffic control materials shall be removed within two weeks of the end of the detour.



Date: 1/14/2022

Filename: ...017\_Detour\_02.dgn



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
	MLG	10/29/21	MDS		10/29/21
	Drawn	JAR	In Charge of	TSB	10/29/21

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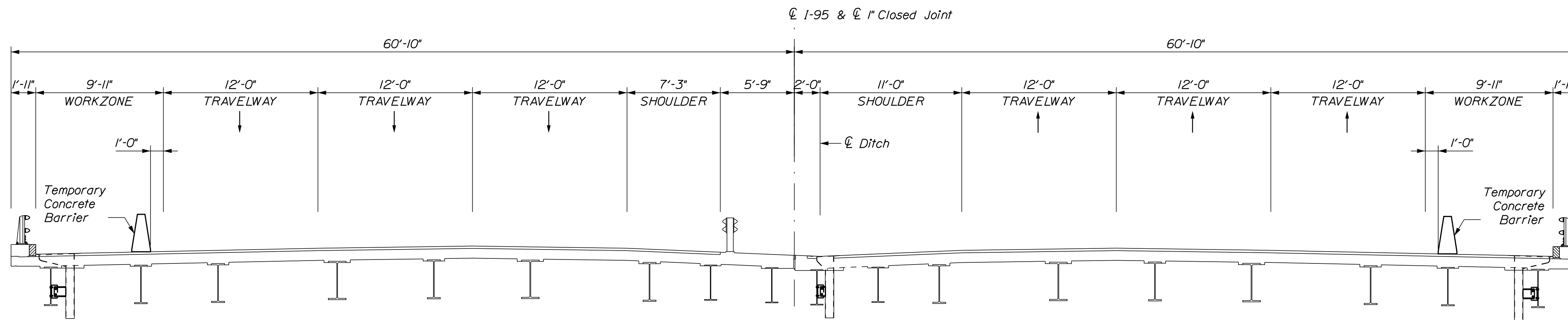
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 WILSON ROAD UNDERPASS  
 AT MM 2.0 IN YORK, ME  
 DETOUR PLAN

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 17  
 17 OF 117

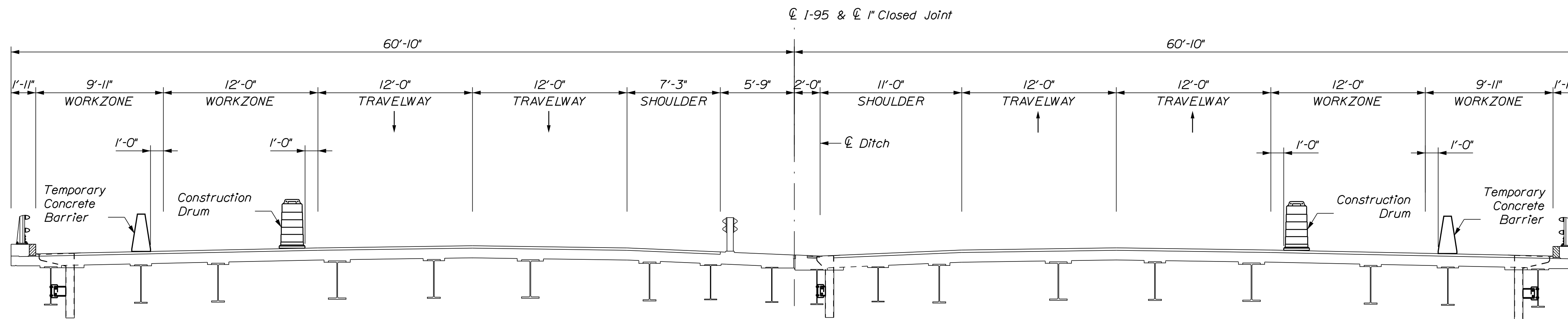
Date: 1/14/2022



TURNPIKE SOUTHBOUND  
Not to Scale

TURNPIKE NORTHBOUND  
Not to Scale

PHASE I  
TRAFFIC CONTROL SECTION



TURNPIKE SOUTHBOUND  
Not to Scale

TURNPIKE NORTHBOUND  
Not to Scale

PHASE IA  
TRAFFIC CONTROL SECTION

CONTRACTOR SHALL ESTABLISH A DOUBLE RIGHT LANE CLOSURE IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC DETAILS TO COMPLETE THE JOINT WORK IN THE RIGHT LANE TO PROVIDE A MINIMUM OF 4' OFFSET FROM THE ACTIVE TRAVEL LANE.

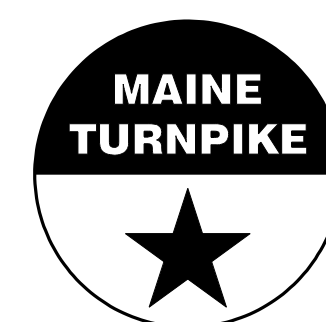
Filename: ...018\_BTyp\_Traffic\_01.dgn

Scale: AS NOTED

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
LANE CLOSURE CRITICAL SECTIONS (1 OF 2)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

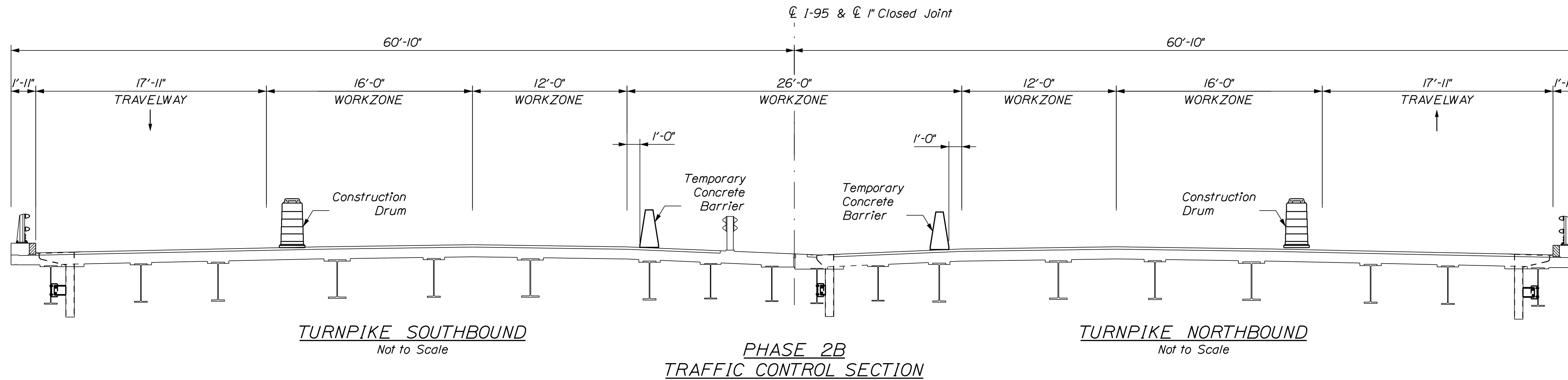
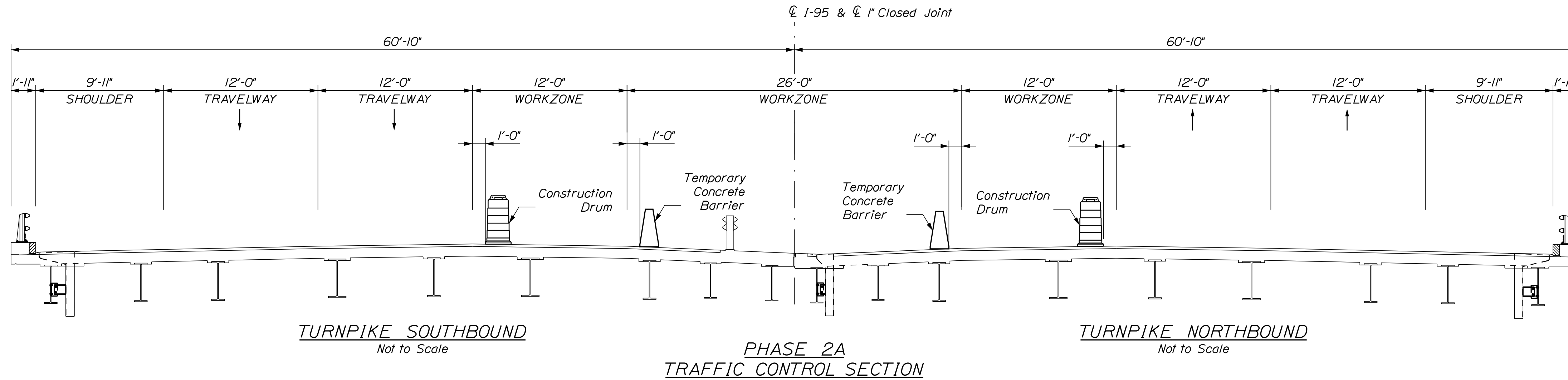
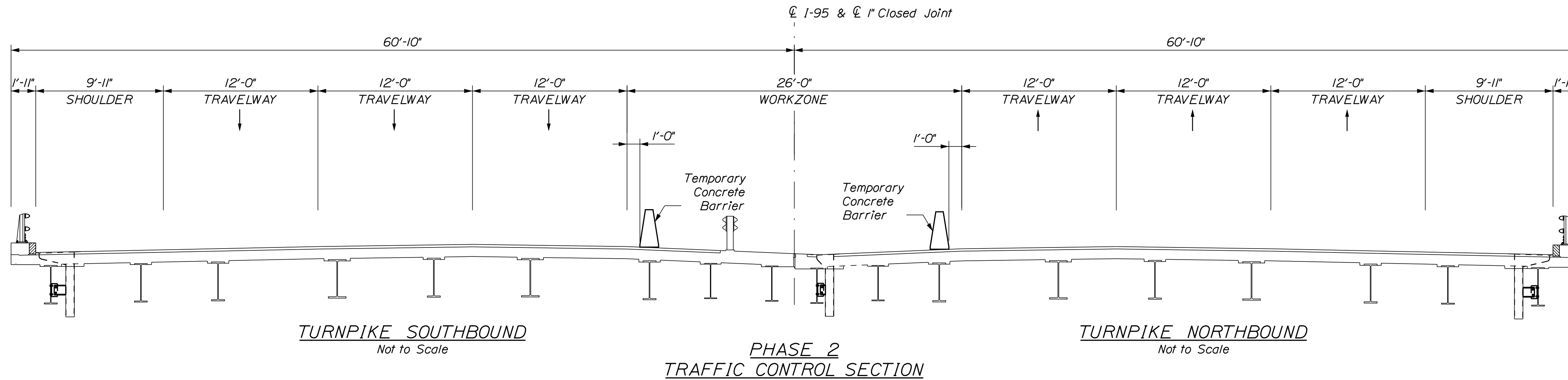
VHB: 55345.00

SHEET NUMBER: 18

CONTRACT: 2022.04

18 OF 117

Date: 1/14/2022



PHASE 2B INCLUDES A 4' SHIFT INTO THE RIGHT SHOULDER TO PROVIDE ADEQUATE OFFSET TO COMPLETE CENTER LANE JOINT REPAIRS.

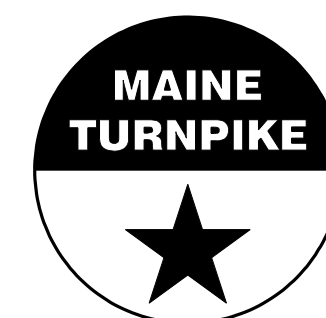
Filename: ...019\_BTyp\_Traffic\_02.dgn

Scale: AS NOTED

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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
LANE CLOSURE CRITICAL SECTIONS (2 OF 2)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	GME	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

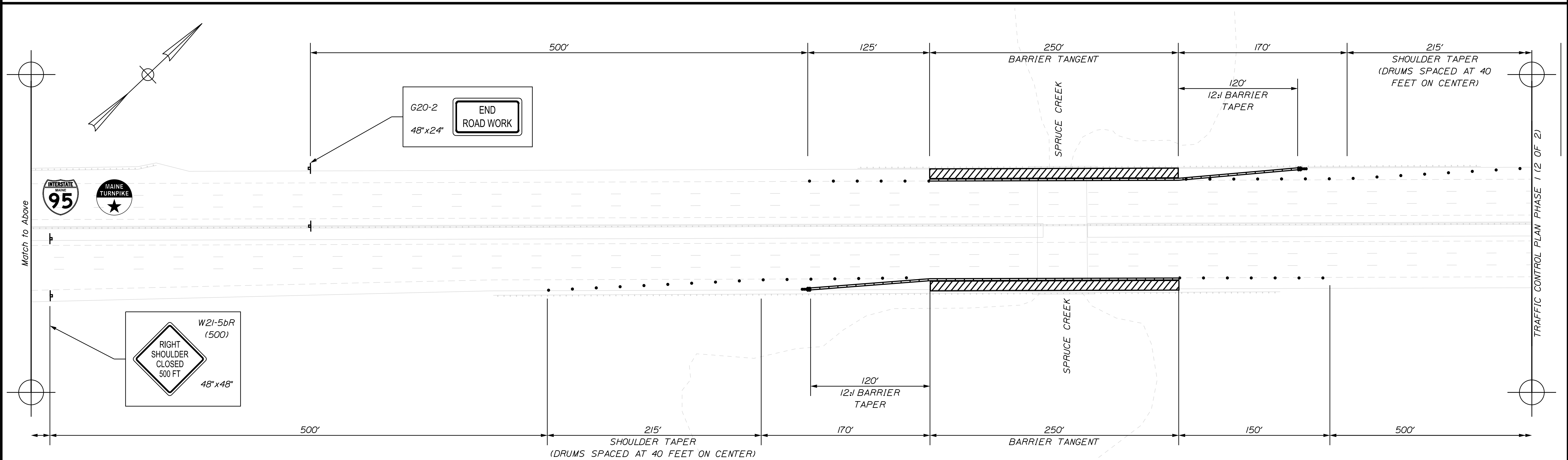
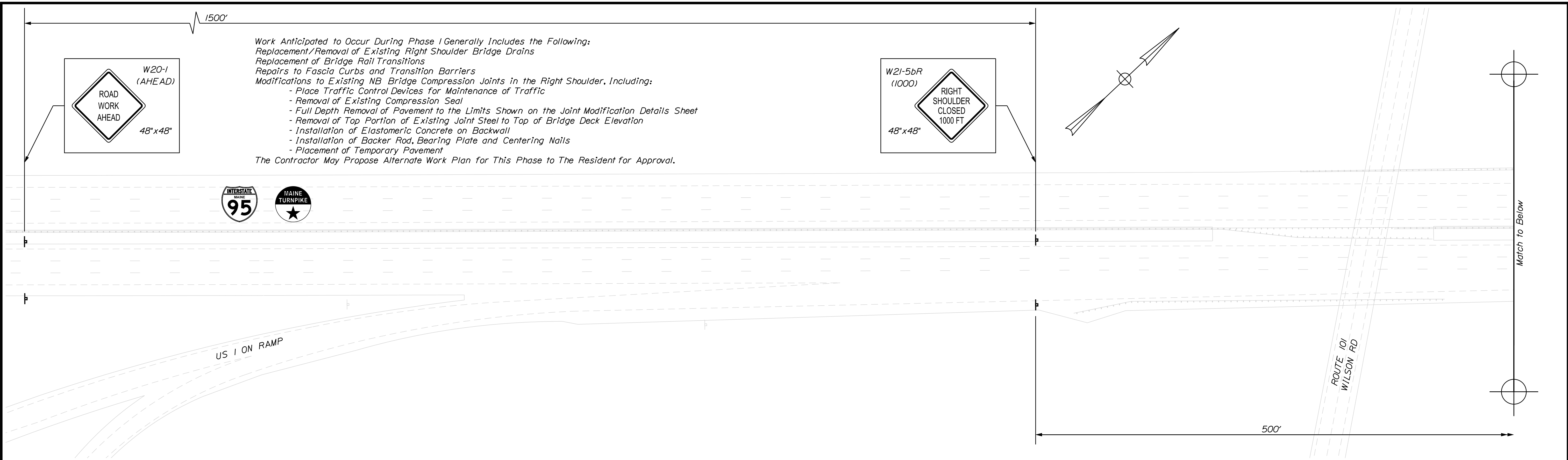
VHB: 55345.00

CONTRACT: 2022.04

SHEET NUMBER: 19

19 OF 117


Date: 1/14/2022



Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21		GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 1 (1 OF 2)

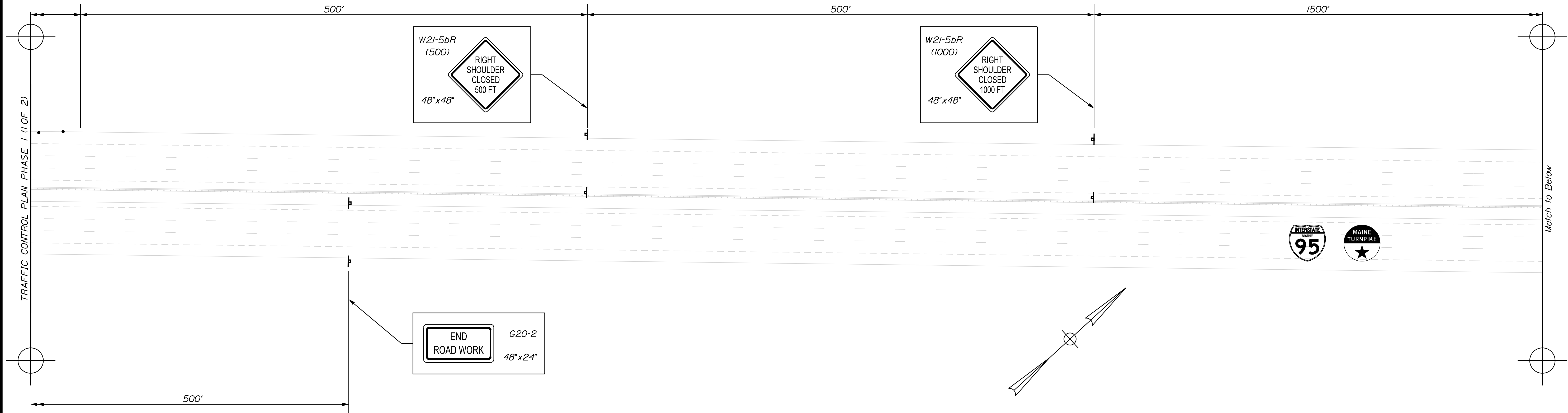
VHB: 55345.00  
 SHEET NUMBER: 20  
 CONTRACT: 2022.04  
 20 OF 117

Filename: ... \020\_TCP\_01.dgn

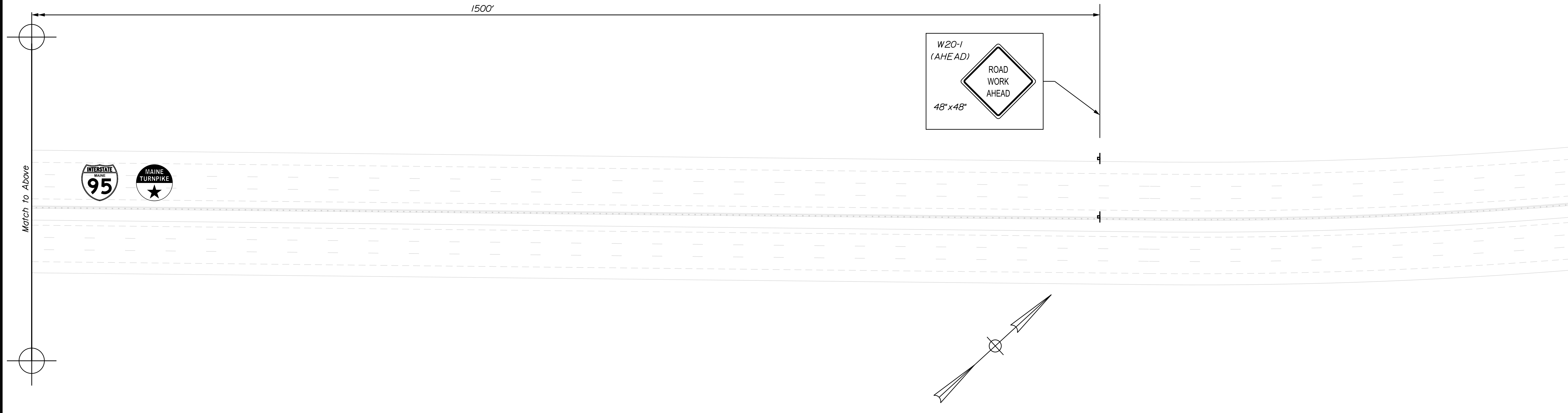
Date: 1/14/2022

TRAFFIC CONTROL PLAN PHASE 1 (1 OF 2)

Match to Below



Match to Above




Filename: ... \021\_TCP\_02.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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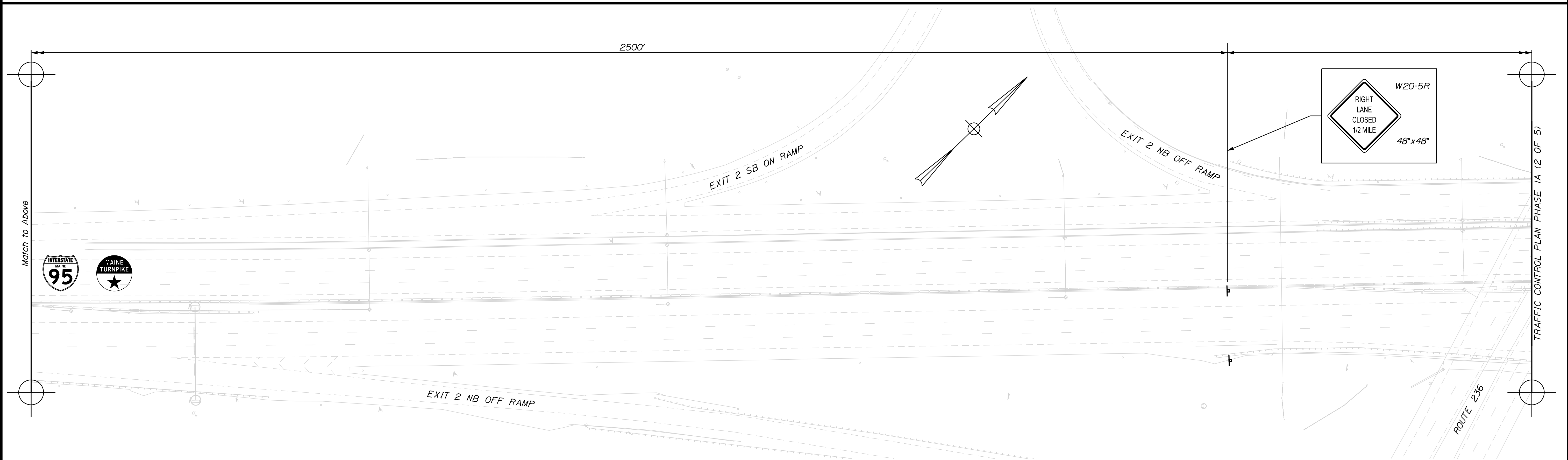
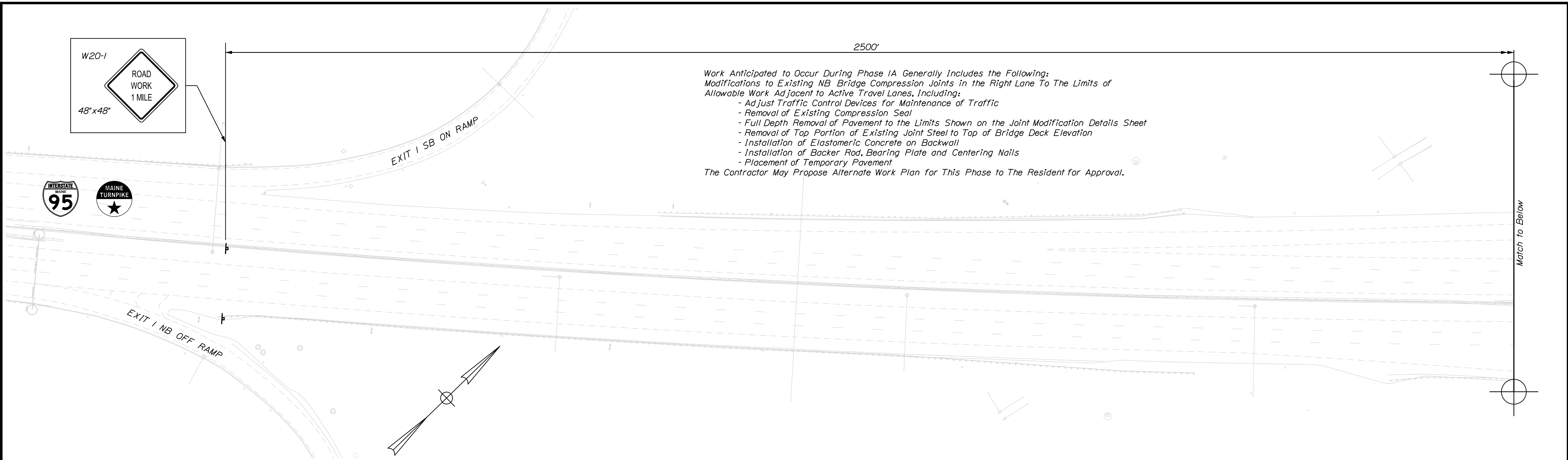
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 1 (2 OF 2)

VHB: 55345.00 SHEET NUMBER: 21  
 CONTRACT: 2022.04 21 OF 117

Date: 1/14/2022




Filename: ...022\_TCP\_03.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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MEMORIAL HIGHWAY**

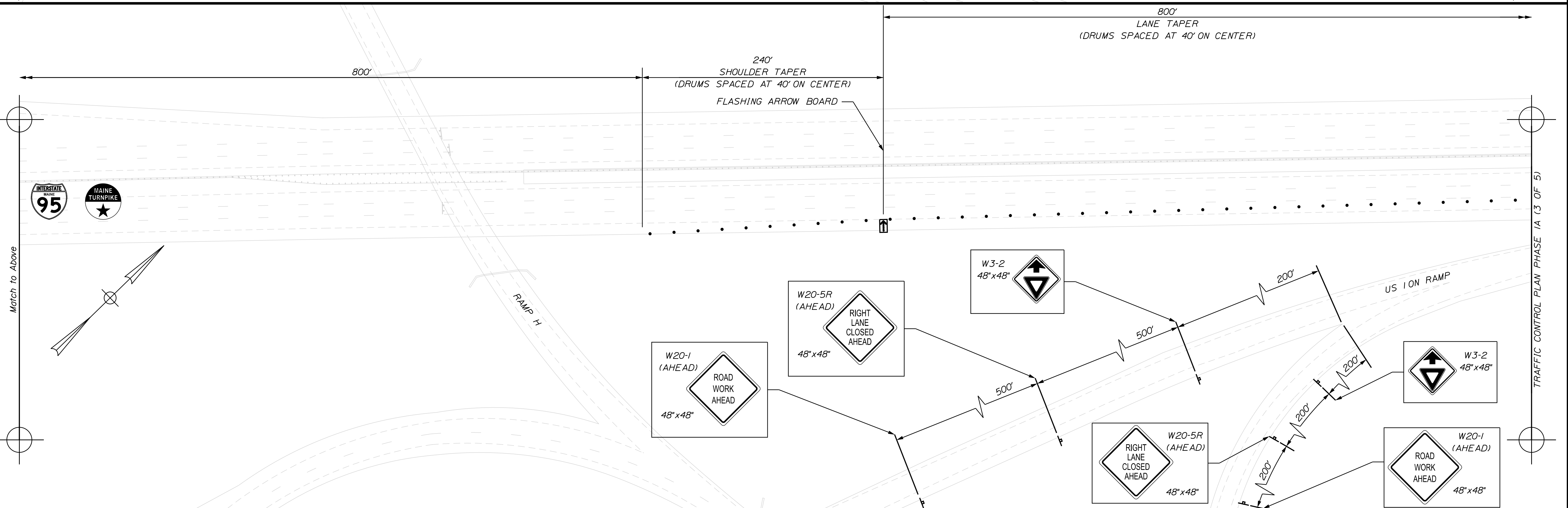
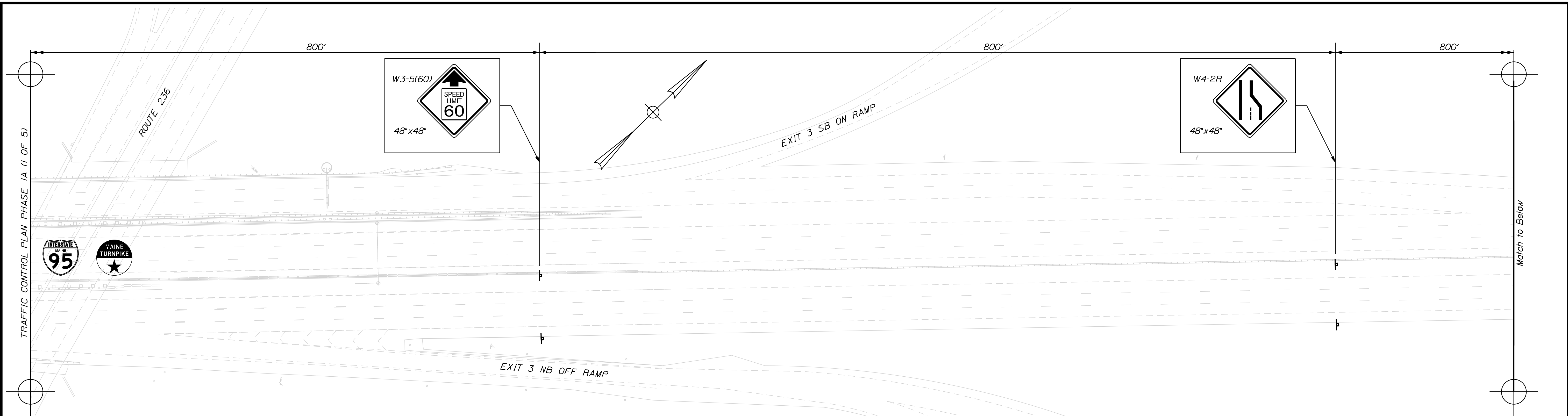
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 1A (1 OF 5)

VHB: 55345.00      SHEET NUMBER: 22  
 CONTRACT: 2022.04      22 OF 117

Date: 1/14/2022

TRAFFIC CONTROL PLAN PHASE 1A (1 OF 5)




Filename: ...023\_TCP\_04.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21		GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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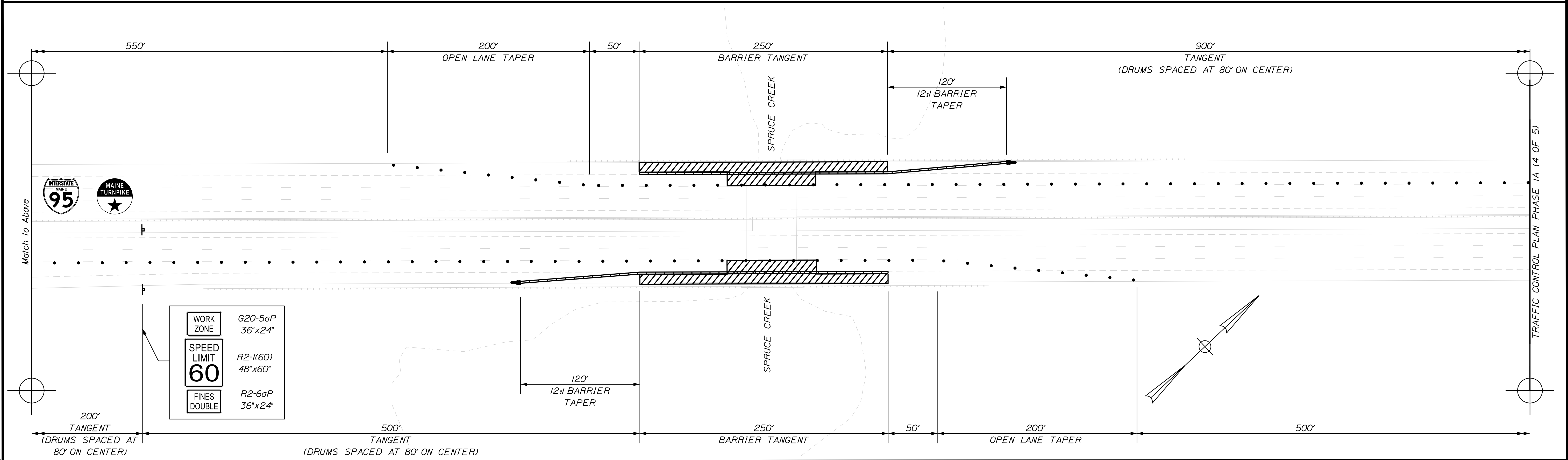
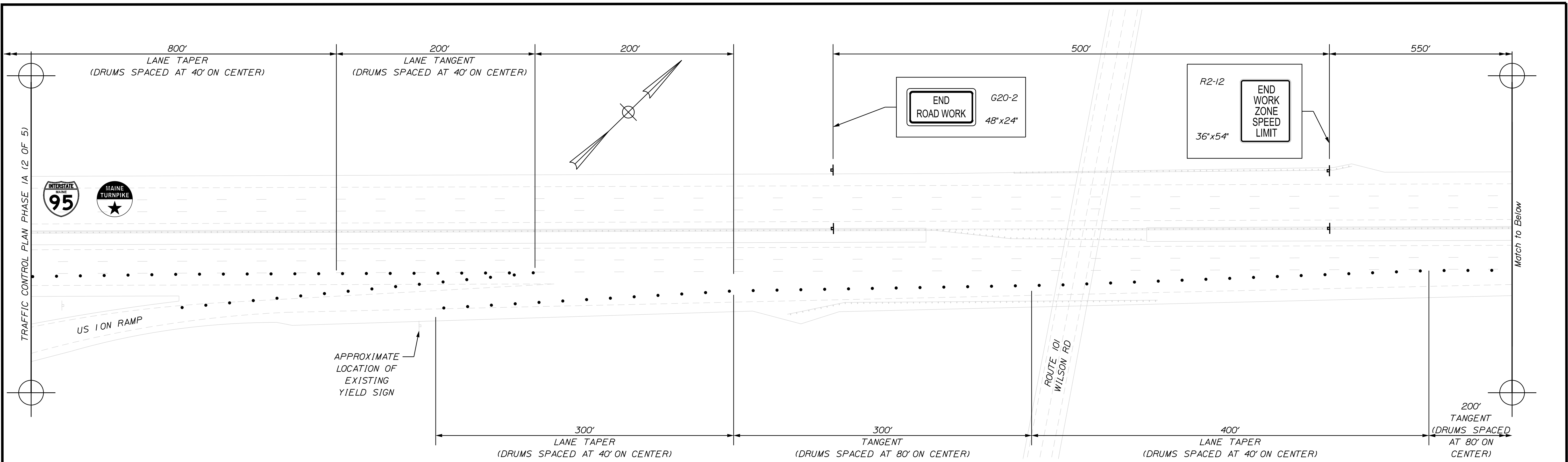
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 1A (2 OF 5)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **23**  
**23 OF 117**


Date: 1/14/2022



Scale:

No.	Revision	By	Date

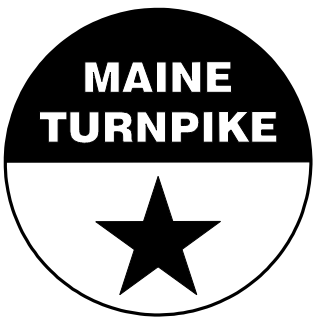
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

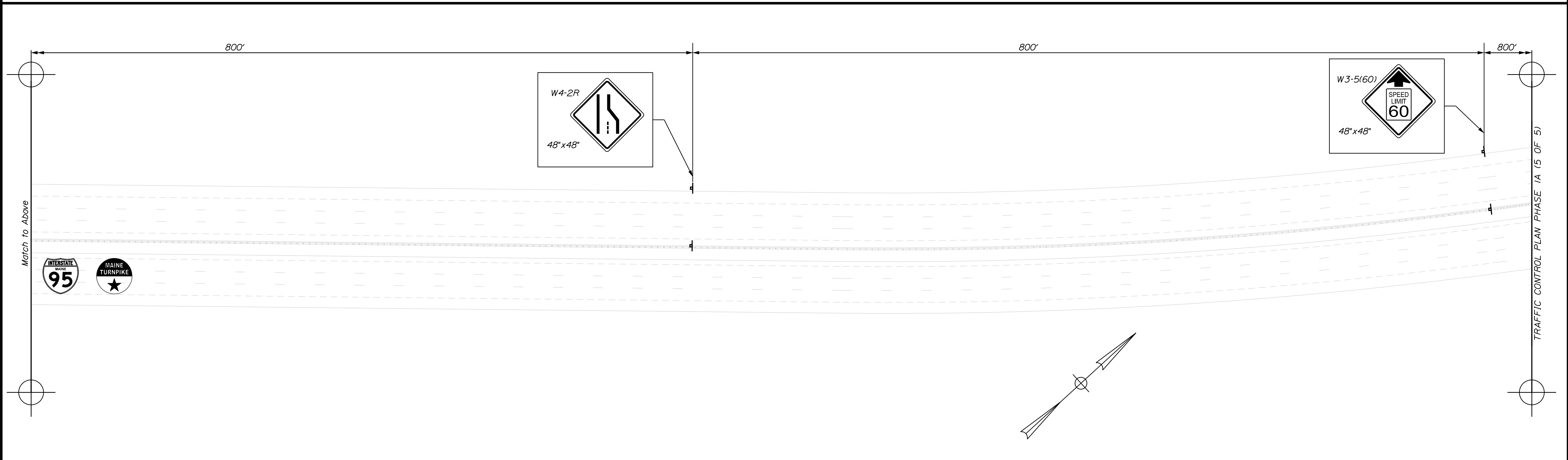
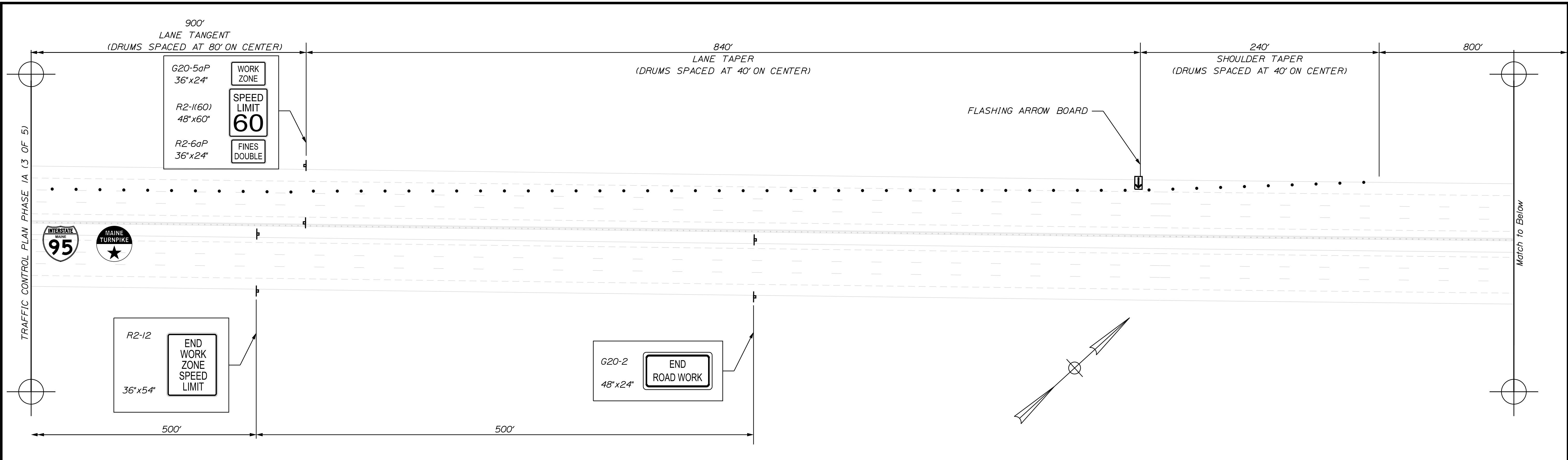
MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 1A (3 OF 5)

VHB: 55345.00 SHEET NUMBER: **24**  
 CONTRACT: 2022.04 **24 OF 117**

Filename: ...024\_ICP\_05.dwg



Date: 1/14/2022




Filename: ...025\_TCP\_06.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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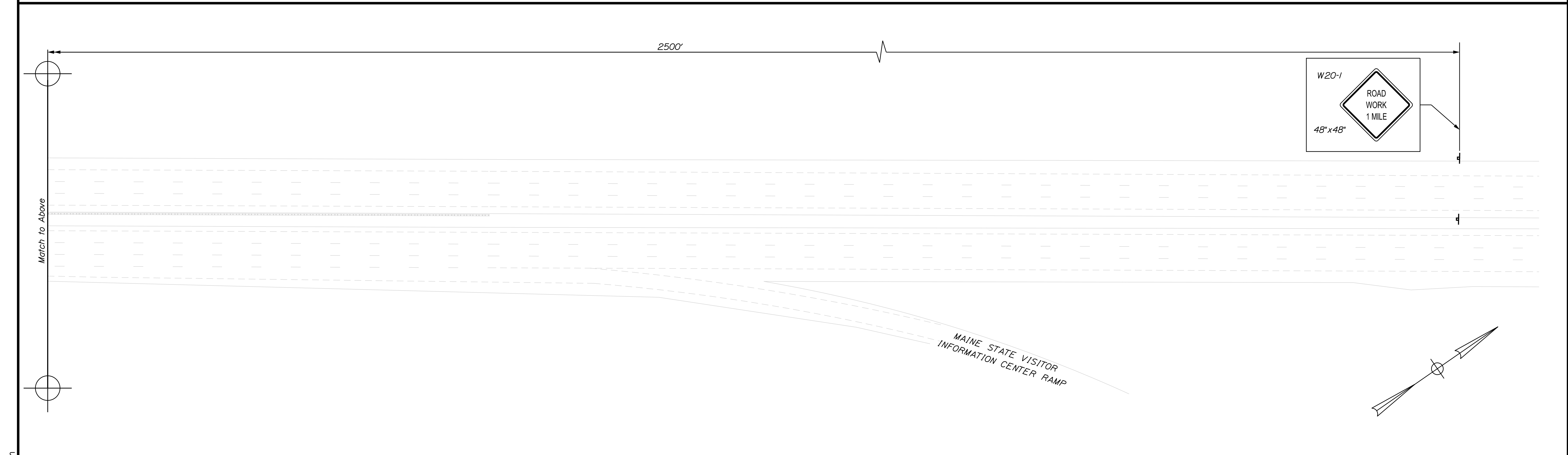
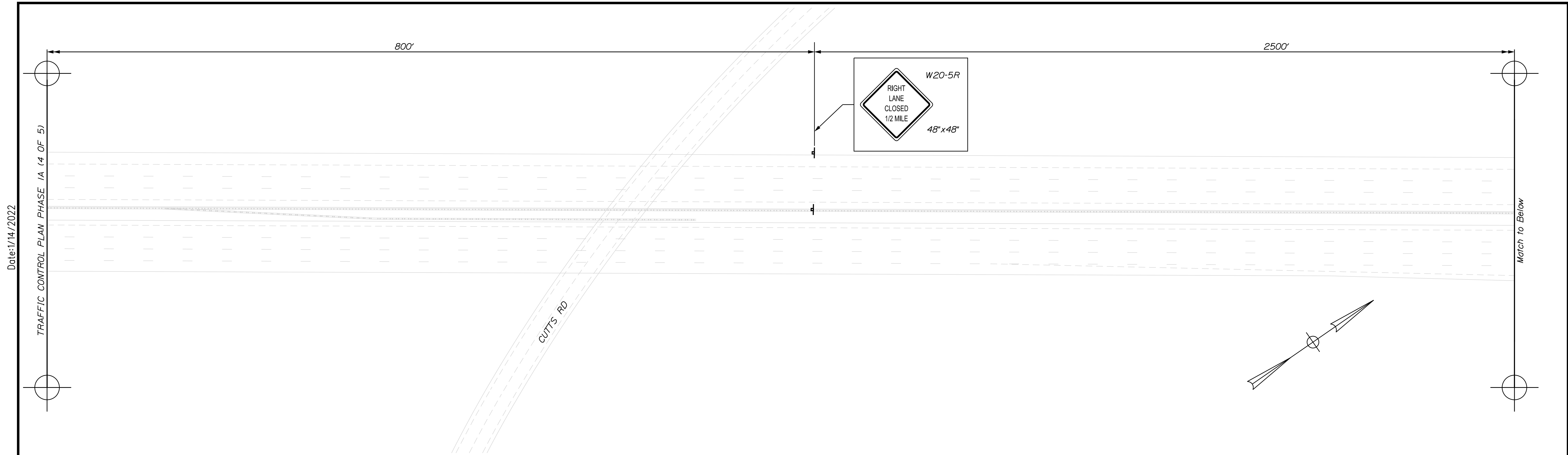
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 1A (4 OF 5)

VHB: 55345.00  
 CONTRACT: 2022.04


SHEET NUMBER: 25  
 25 OF 117



Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

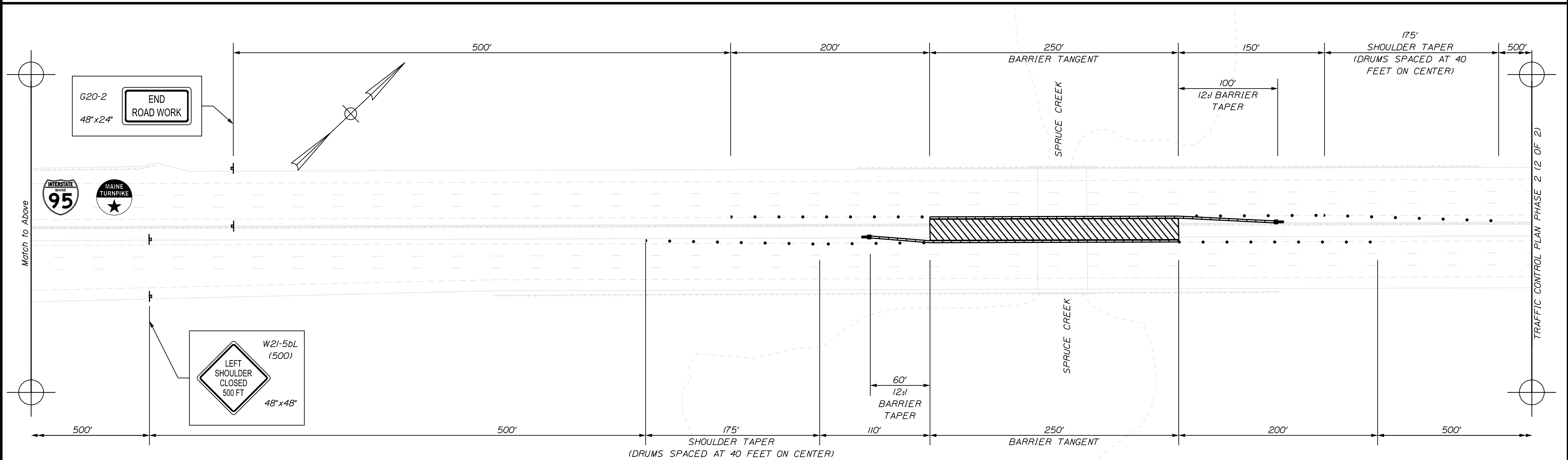
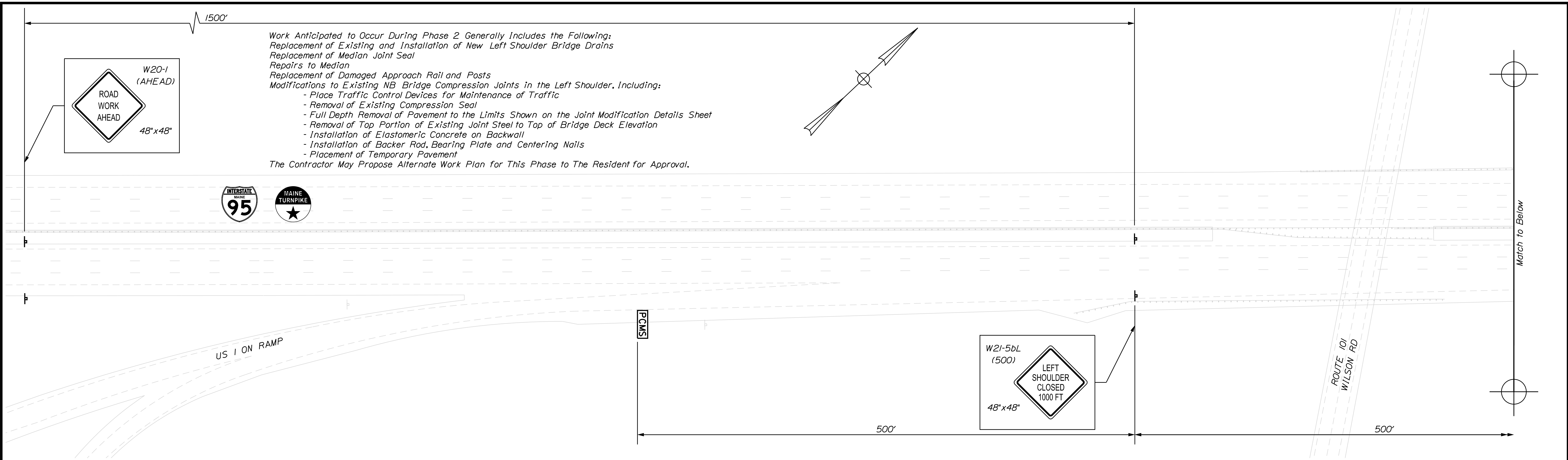
MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 1A (5 OF 5)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **26**  
**26 OF 117**

Filename: ...\\026\_TCP\_07.dgn

Date: 1/14/2022



Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21		GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2 (1 OF 2)

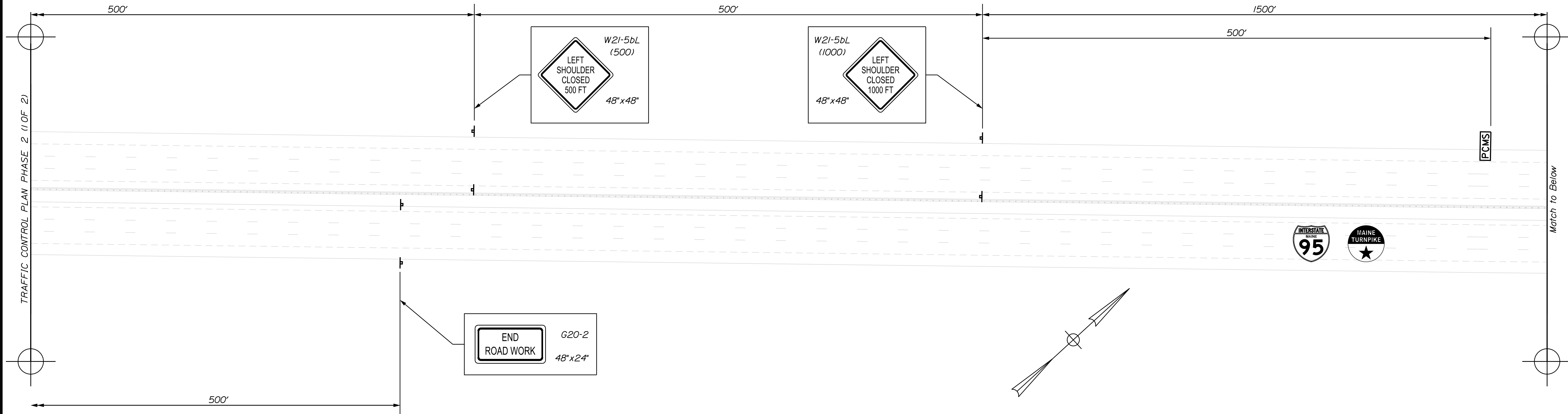
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 27  
 27 OF 117

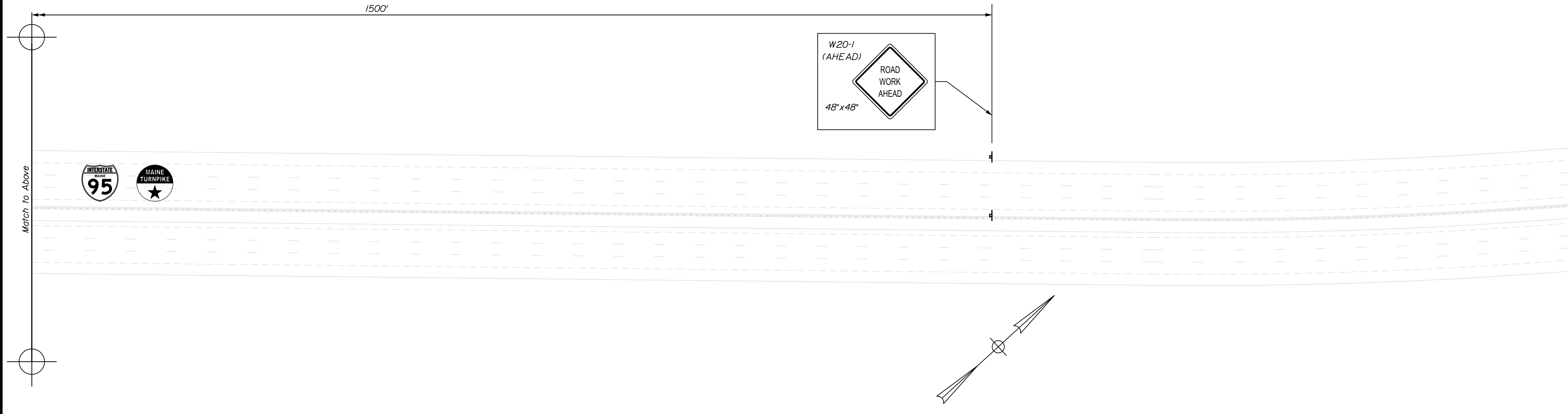
Filename: ... \027\_TCP\_08.dgn

Date: 1/14/2022

TRAFFIC CONTROL PLAN PHASE 2 (1 OF 2)



Match to Above




Filename: ...028\_TCP\_09.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**

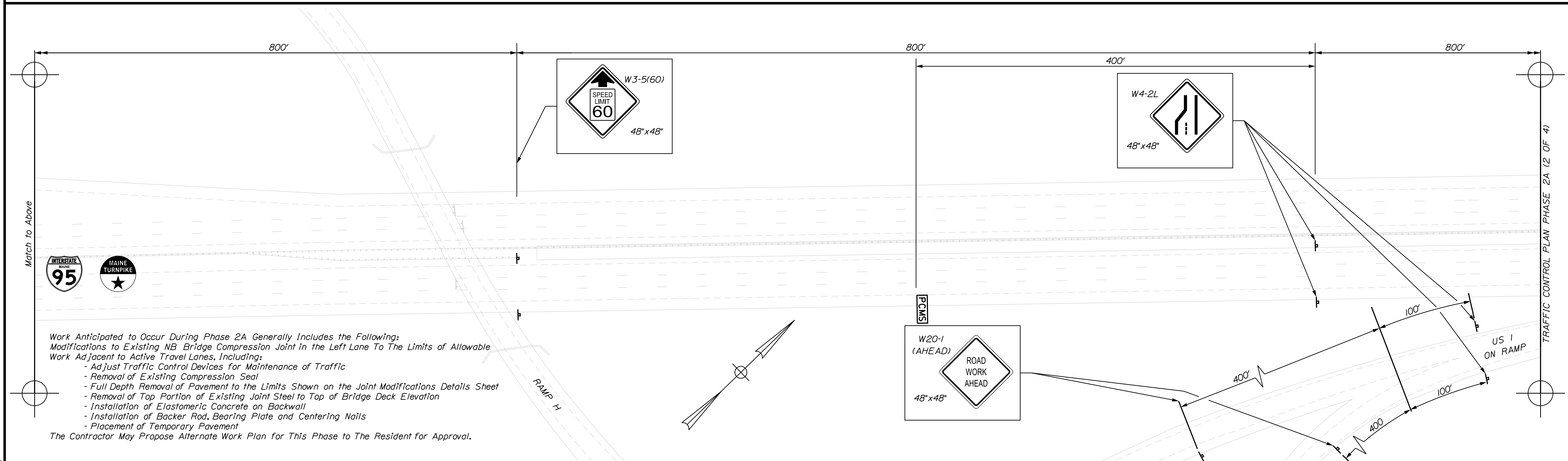
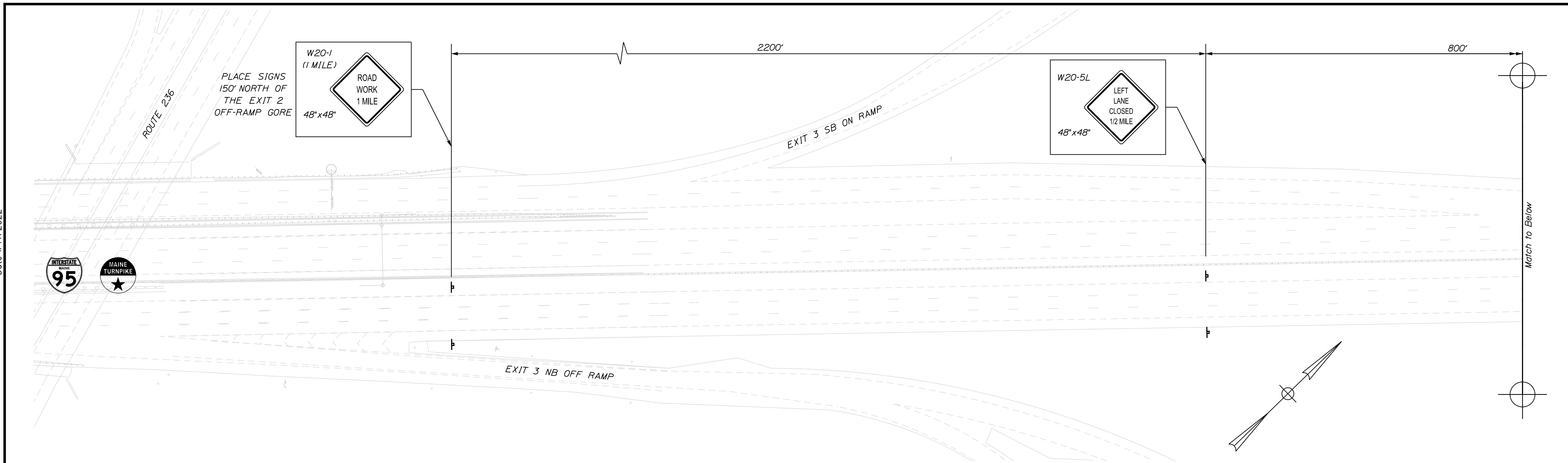
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2 (2 OF 2)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **28**  
**28 OF 117**

Date: 1/14/2022




Filename: ...029\_TCP\_10.dgn

Scale:

No.	Revision	By	Date


Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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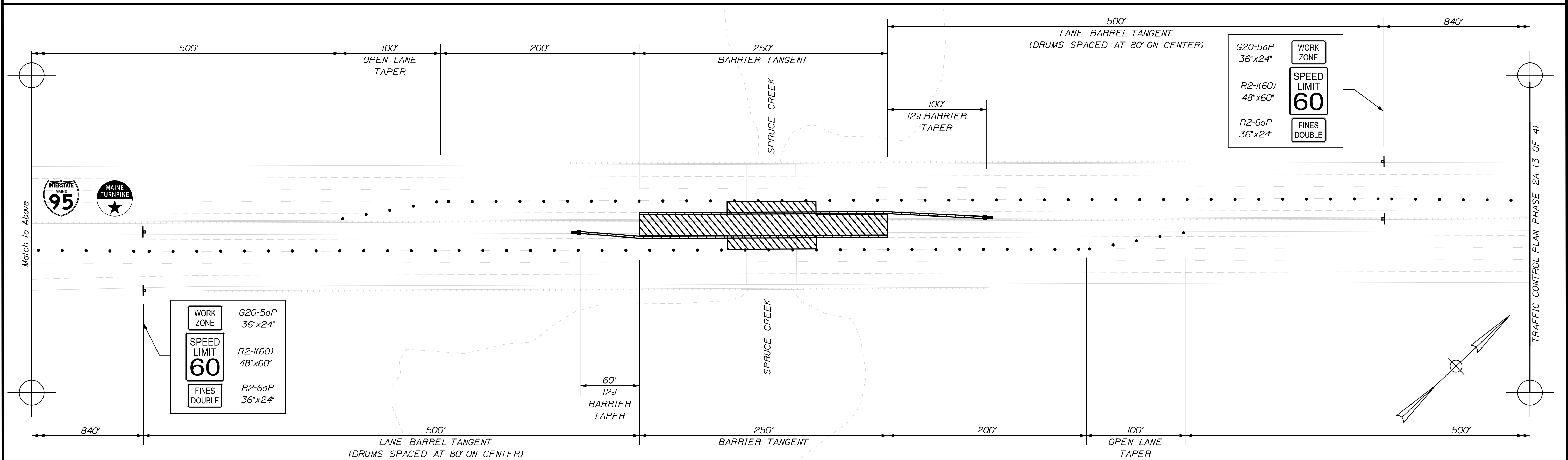
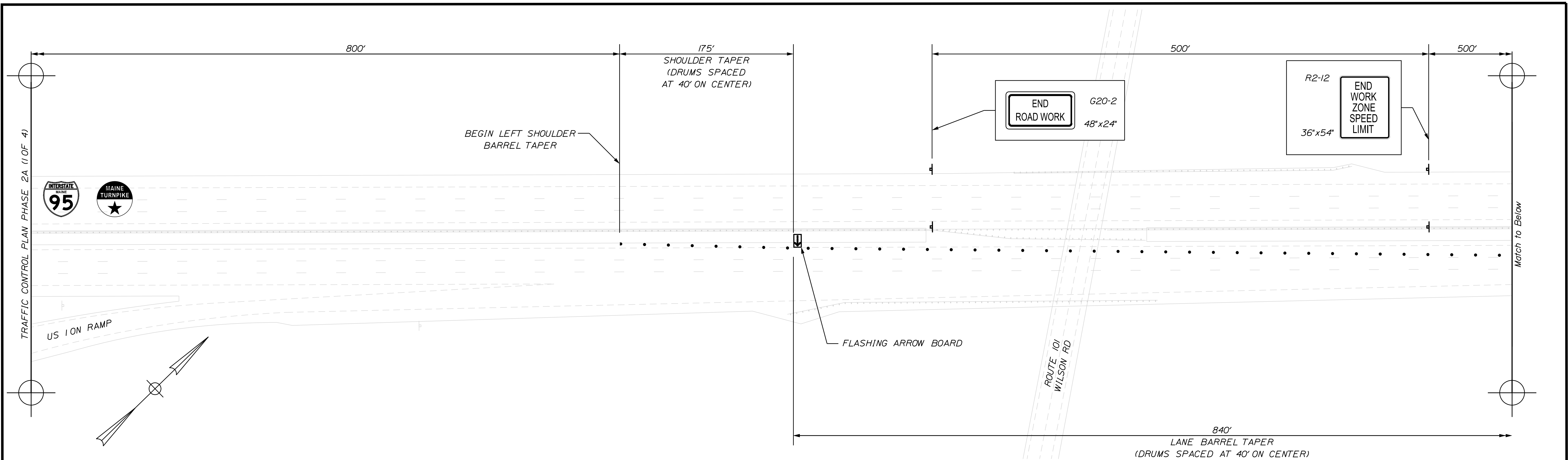
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2A (1 OF 4)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 29  
 29 OF 117


Date: 1/14/2022



Scale:

No.	Revision	By	Date

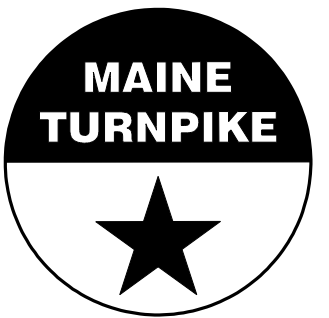
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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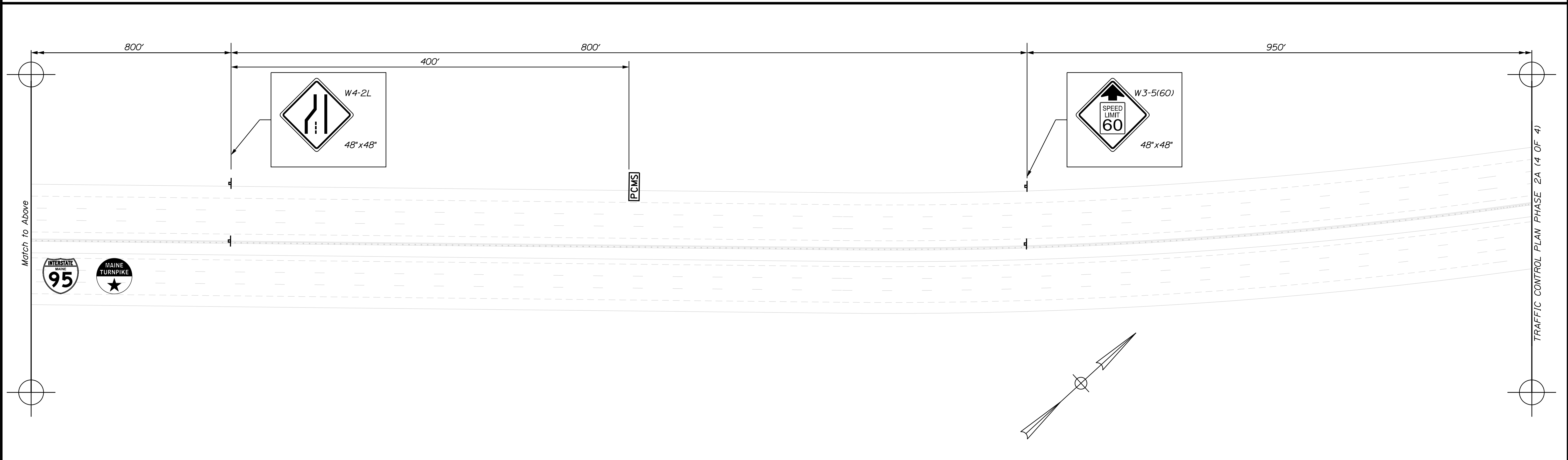
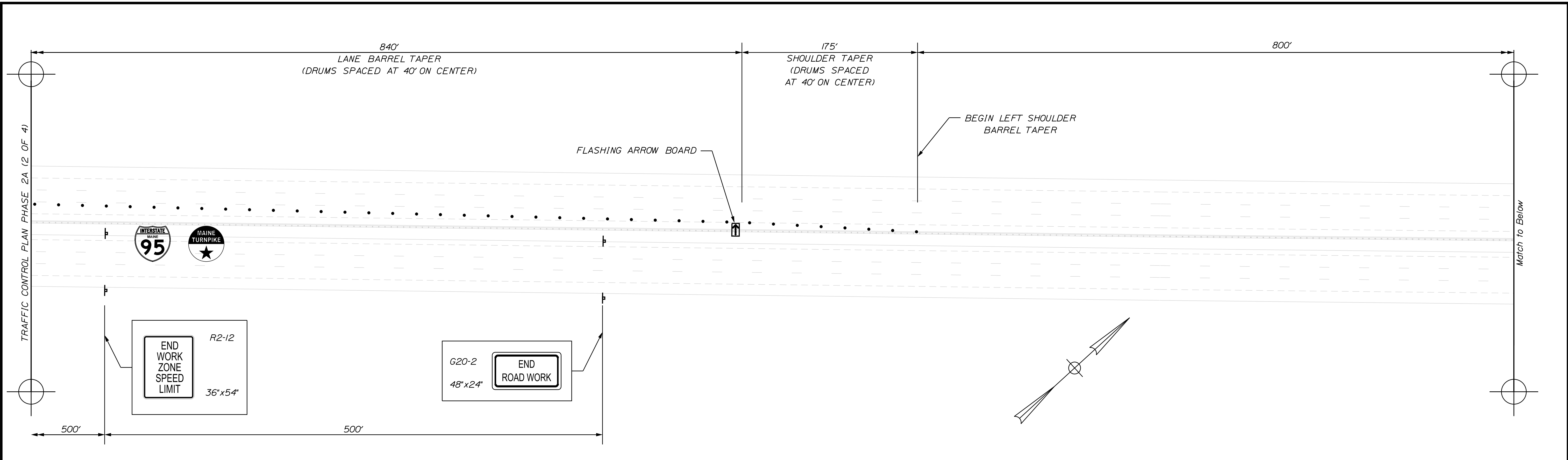
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2A (2 OF 4)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **30**  
**30 OF 117**


Date: 1/14/2022



Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2A (3 OF 4)

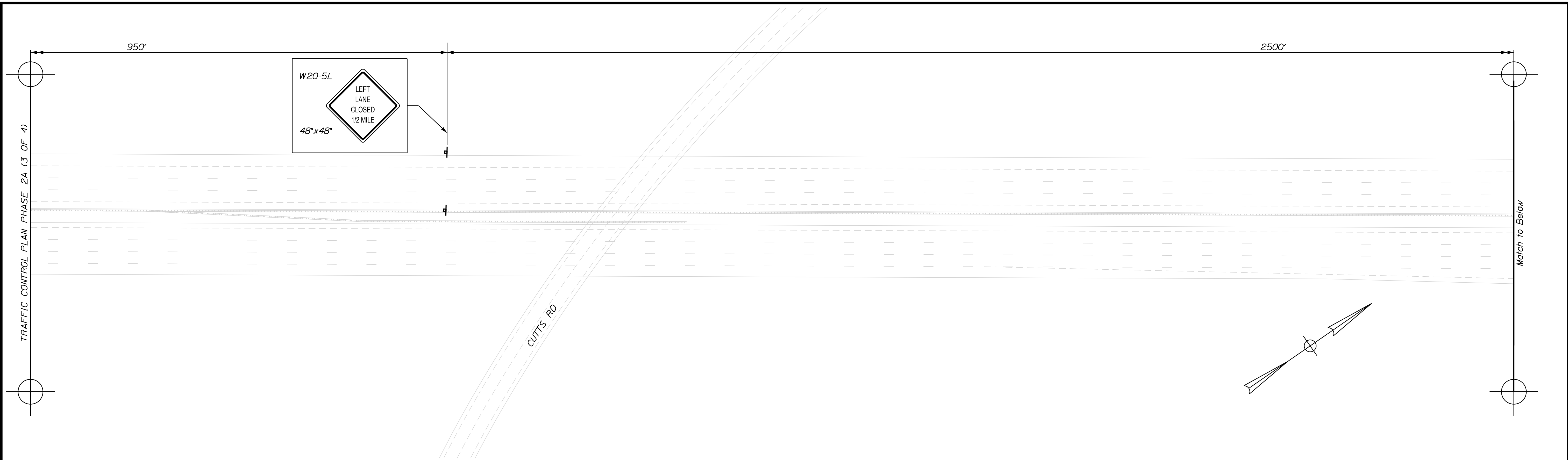
VHB: 55345.00 SHEET NUMBER: 31  
 CONTRACT: 2022.04 31 OF 117

Filename: ...031\_TCP\_12.dgn

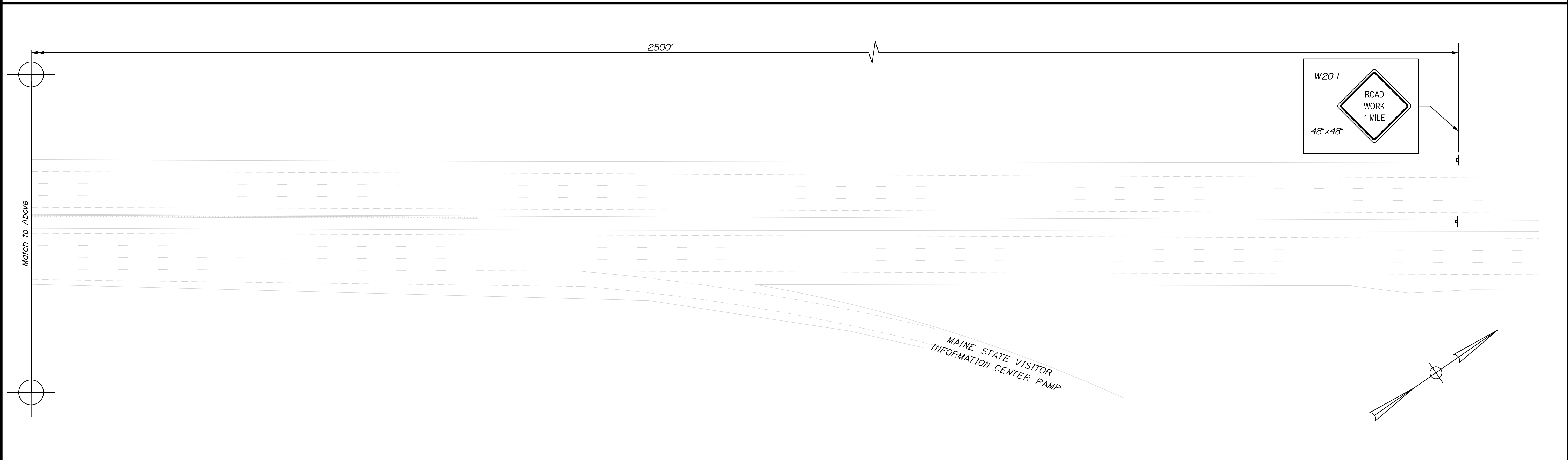
Date: 1/14/2022

TRAFFIC CONTROL PLAN PHASE 2A (3 OF 4)

Match to Below



Match to Above




Filename: ... \032\_TCP\_13.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
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MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

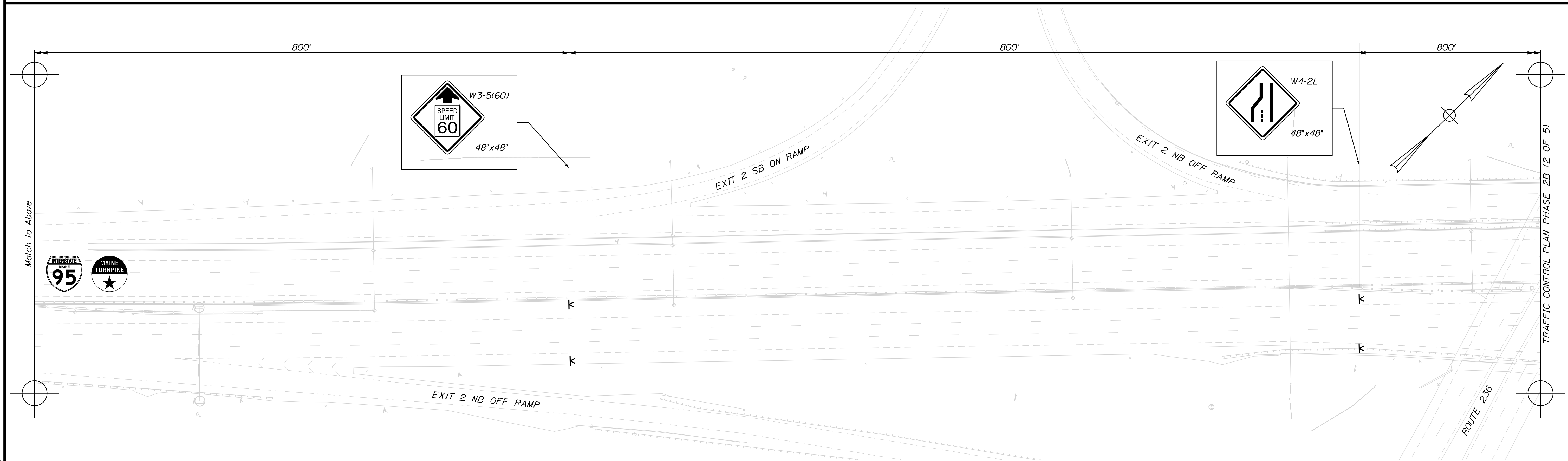
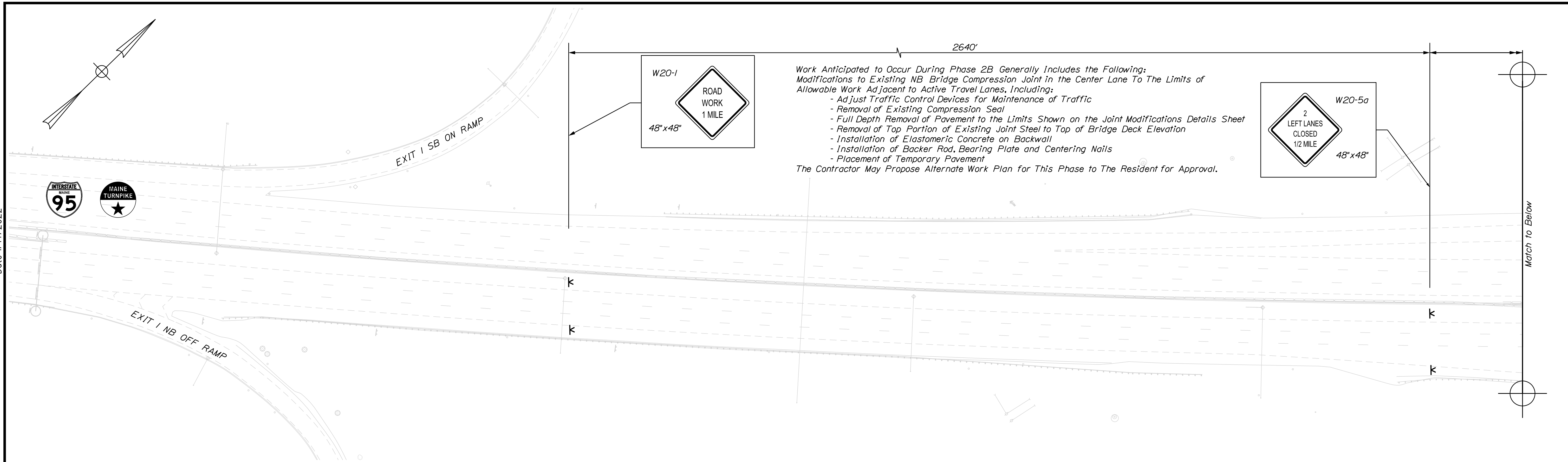
MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2A (4 OF 4)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **32**  
**32 OF 117**



Date: 1/14/2022




Filename: ...033\_TCP\_14.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

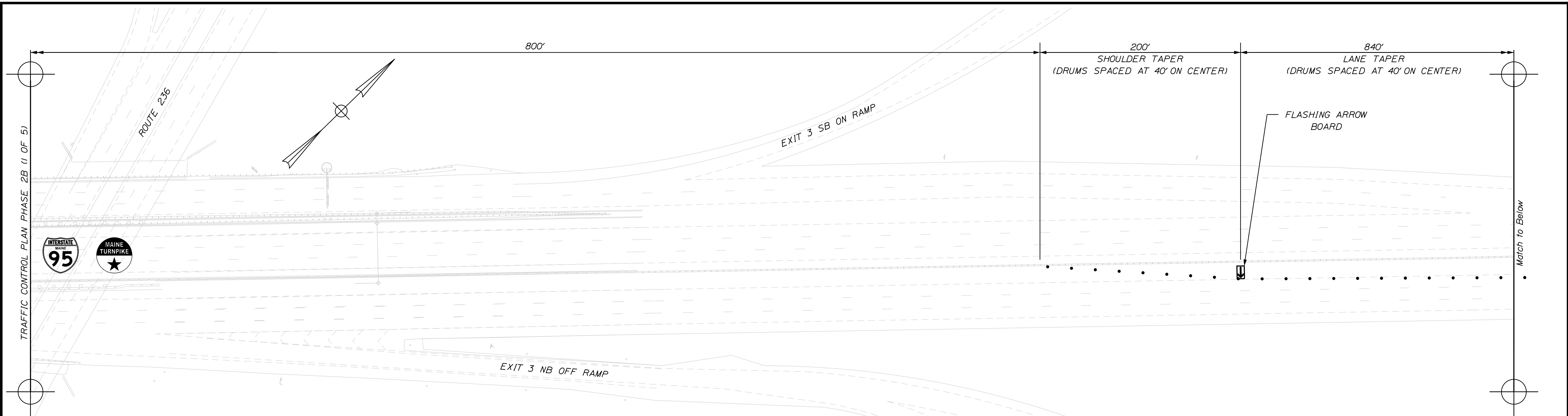
MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2B (1 OF 5)

VHB: 55345.00  
 CONTRACT: 2022.04

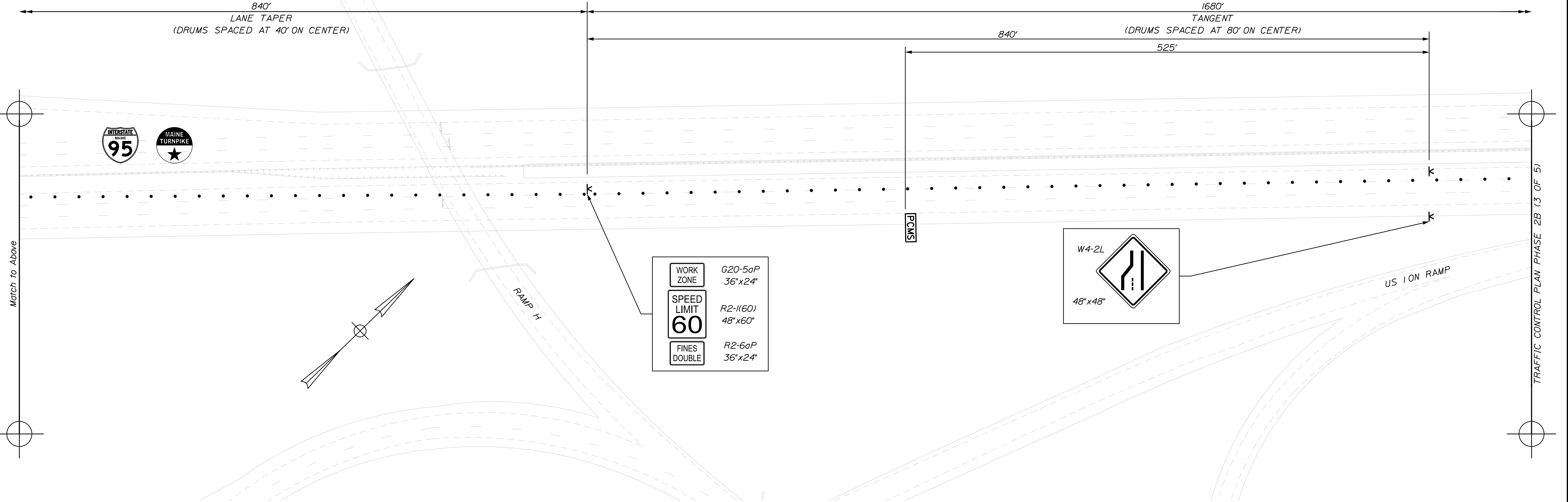
SHEET NUMBER: **33**  
**33 OF 117**

Date: 1/14/2022

TRAFFIC CONTROL PLAN PHASE 2B (1 OF 5)



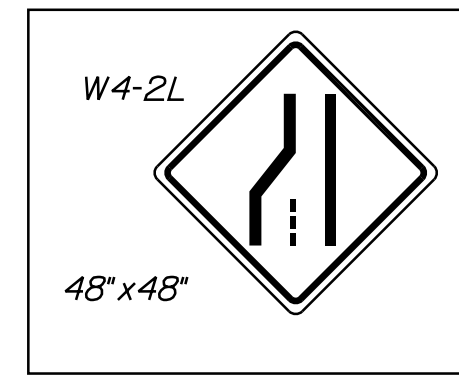
Match to Below



Match to Above

TRAFFIC CONTROL PLAN PHASE 2B (3 OF 5)


WORK ZONE	G20-5aP 36"x24"
SPEED LIMIT	R2-1(60) 48"x60"
FINES DOUBLE	R2-6aP 36"x24"



Scale:

No.	Revision	By	Date

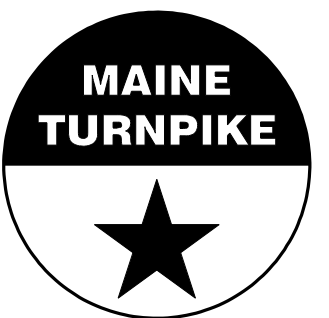
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
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MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

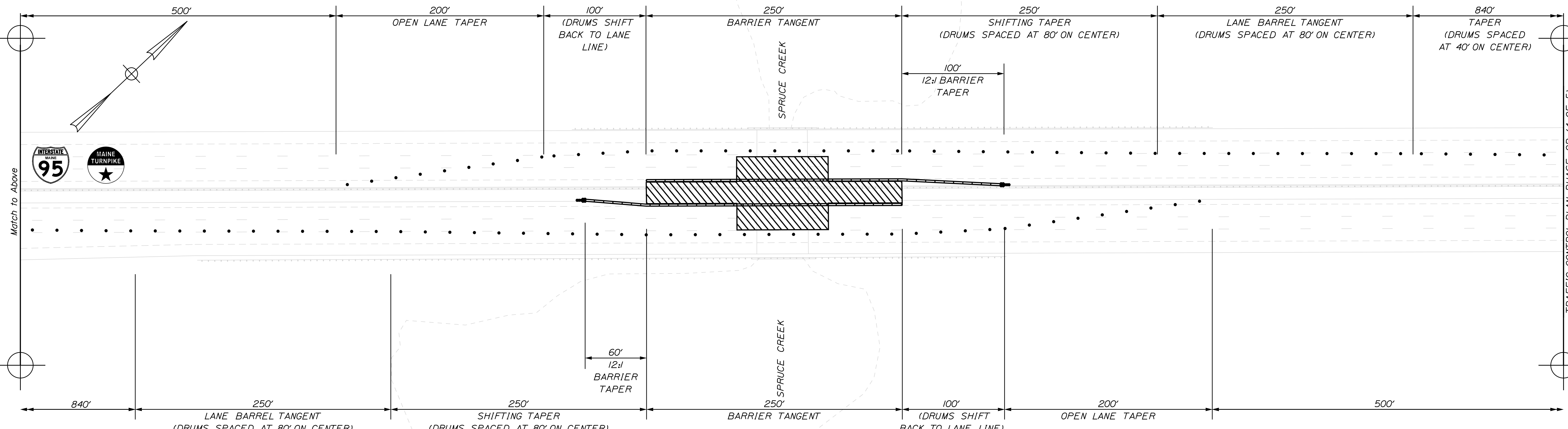
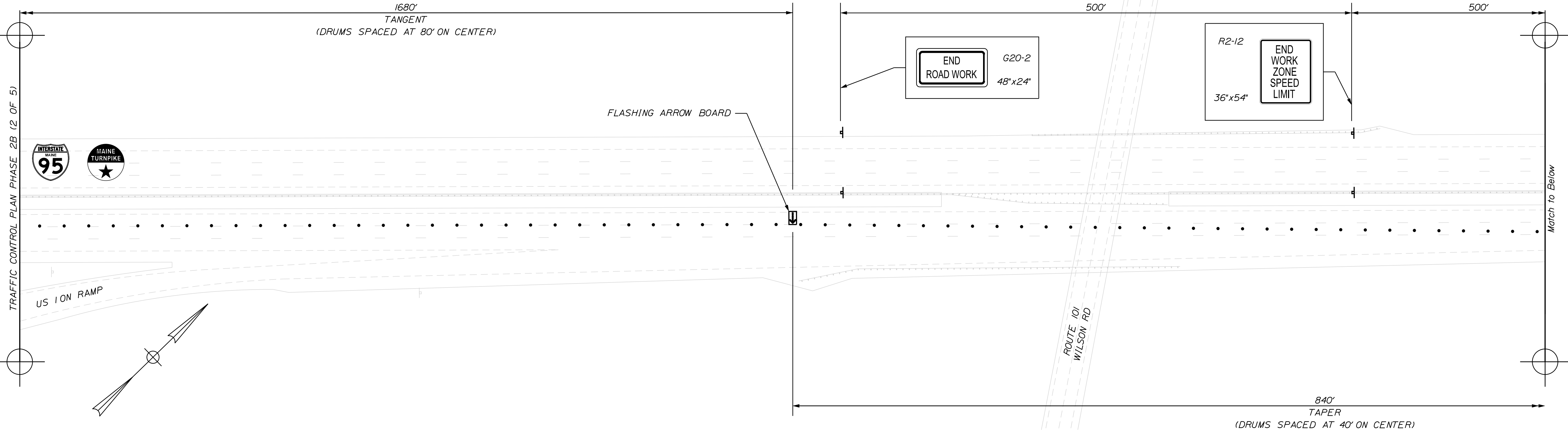
MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2B (2 OF 5)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **34**  
**34 OF 117**

Filename: ...034\_TCP\_15.dgn

Date: 1/14/2022




Filename: ...\_035\_TCP\_16.dgn

Scale:

No.	Revision	By	Date

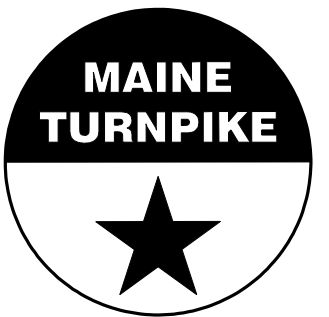
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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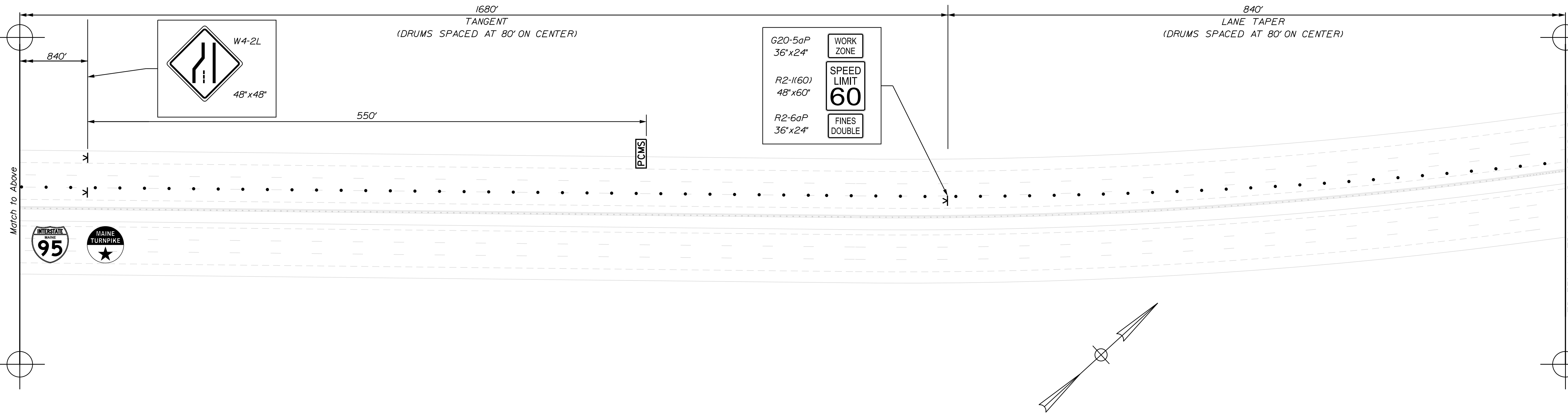
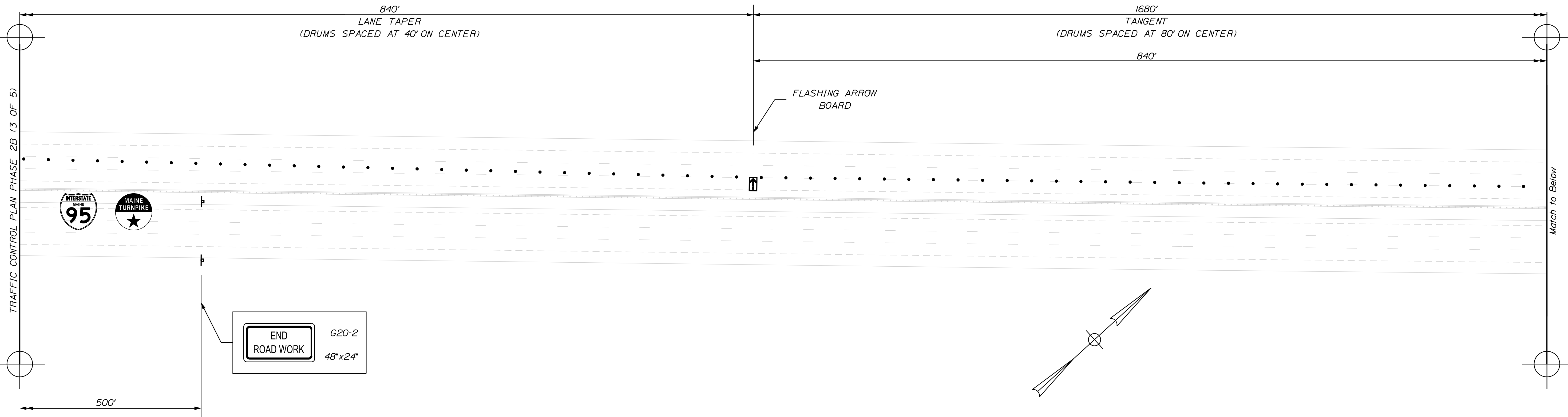
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
**TRAFFIC CONTROL PLAN PHASE 2B (3 OF 5)**

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **35**  
**35 OF 117**


Date: 1/14/2022



Scale:

No.	Revision	By	Date

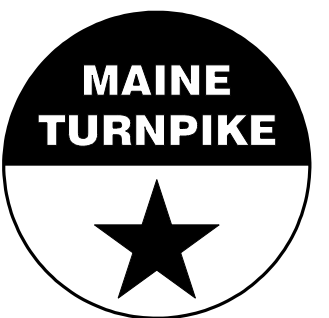
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 TRAFFIC CONTROL PLAN PHASE 2B (4 OF 5)

VHB: 55345.00  
 CONTRACT: 2022.04

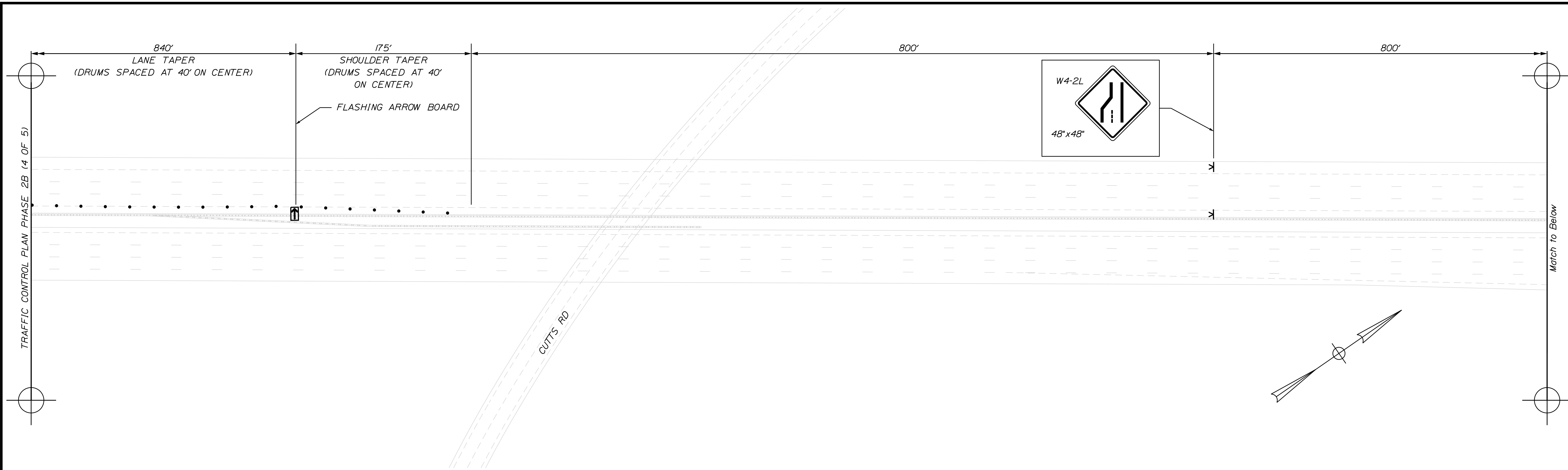
SHEET NUMBER: **36**  
**36 OF 117**

Filename: ...036\_TCP\_17.dgn

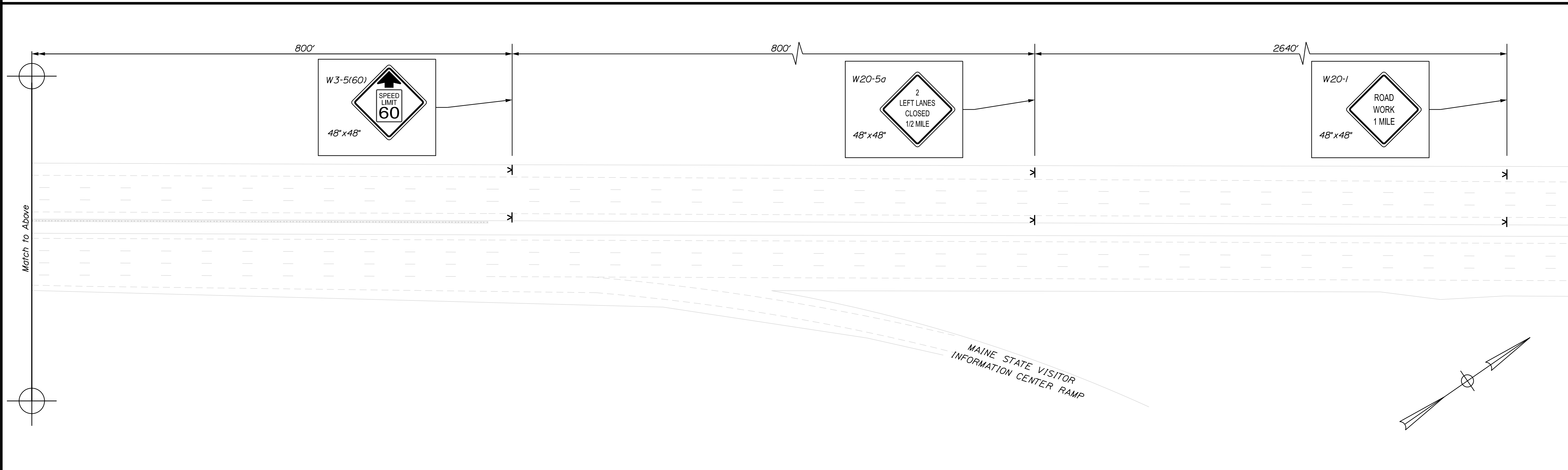
Date: 1/14/2022

TRAFFIC CONTROL PLAN PHASE 2B (4 OF 5)

Match to Below



Match to Above




Filename: ... \037\_TCP\_18.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21		GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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South Portland, ME 04106  
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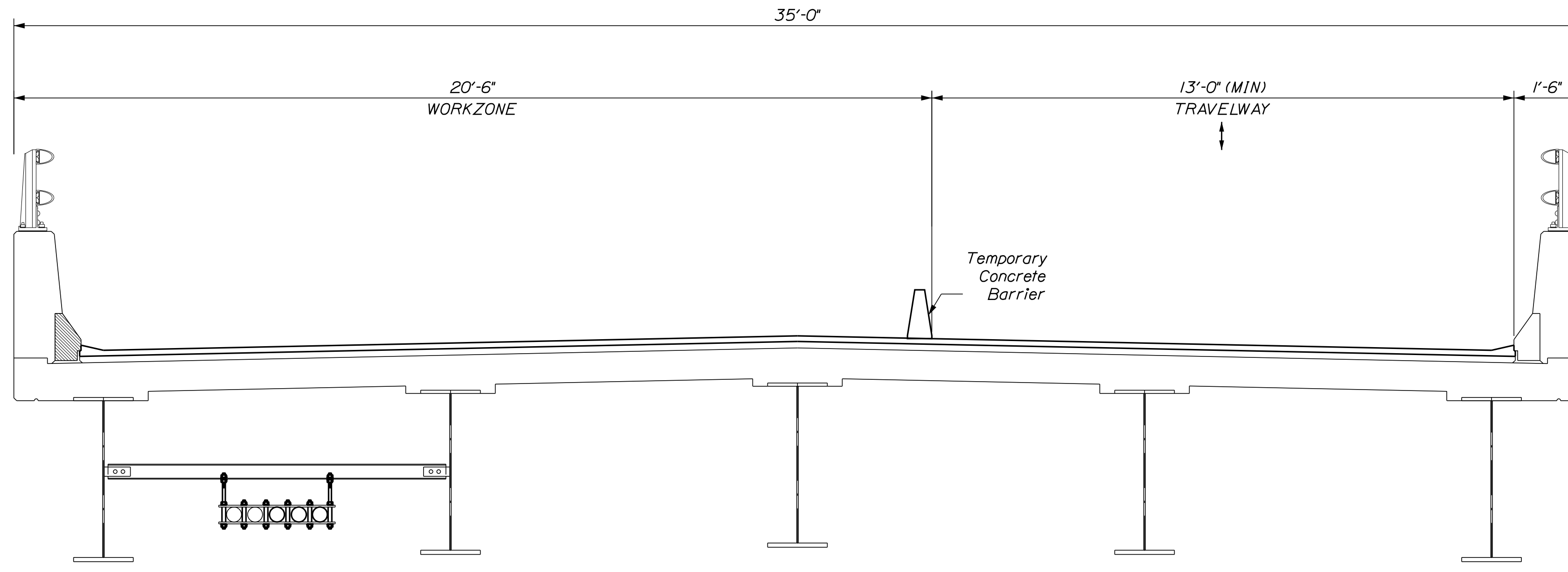
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
TRAFFIC CONTROL PLAN PHASE 2B (5 OF 5)

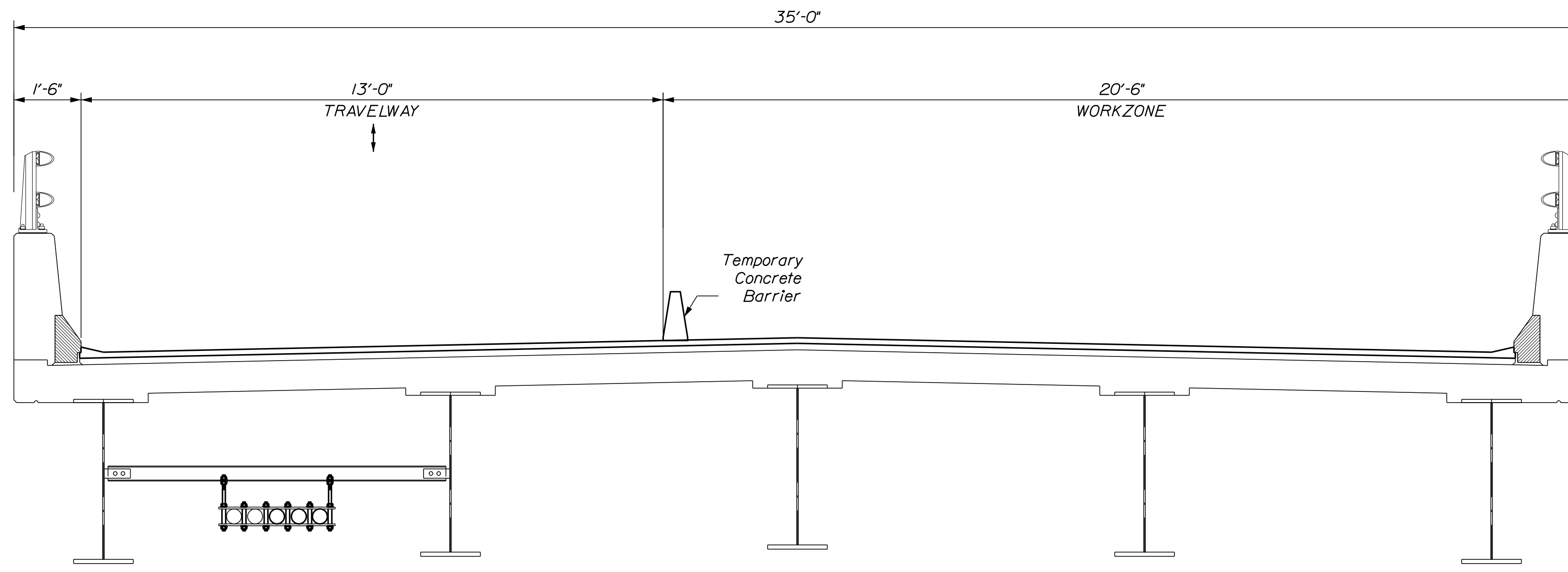
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **37**  
**37 OF 117**

Date: 1/14/2022



PHASE 1  
TRAFFIC CONTROL SECTION  
Scale: 1/2" = 1'-0"




PHASE 2  
TRAFFIC CONTROL SECTION  
Scale: 1/2" = 1'-0"

Filename: ... \038\_BTyp\_Traffic\_01.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
LANE CLOSURE CRITICAL SECTION

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **38**  
38 OF 117

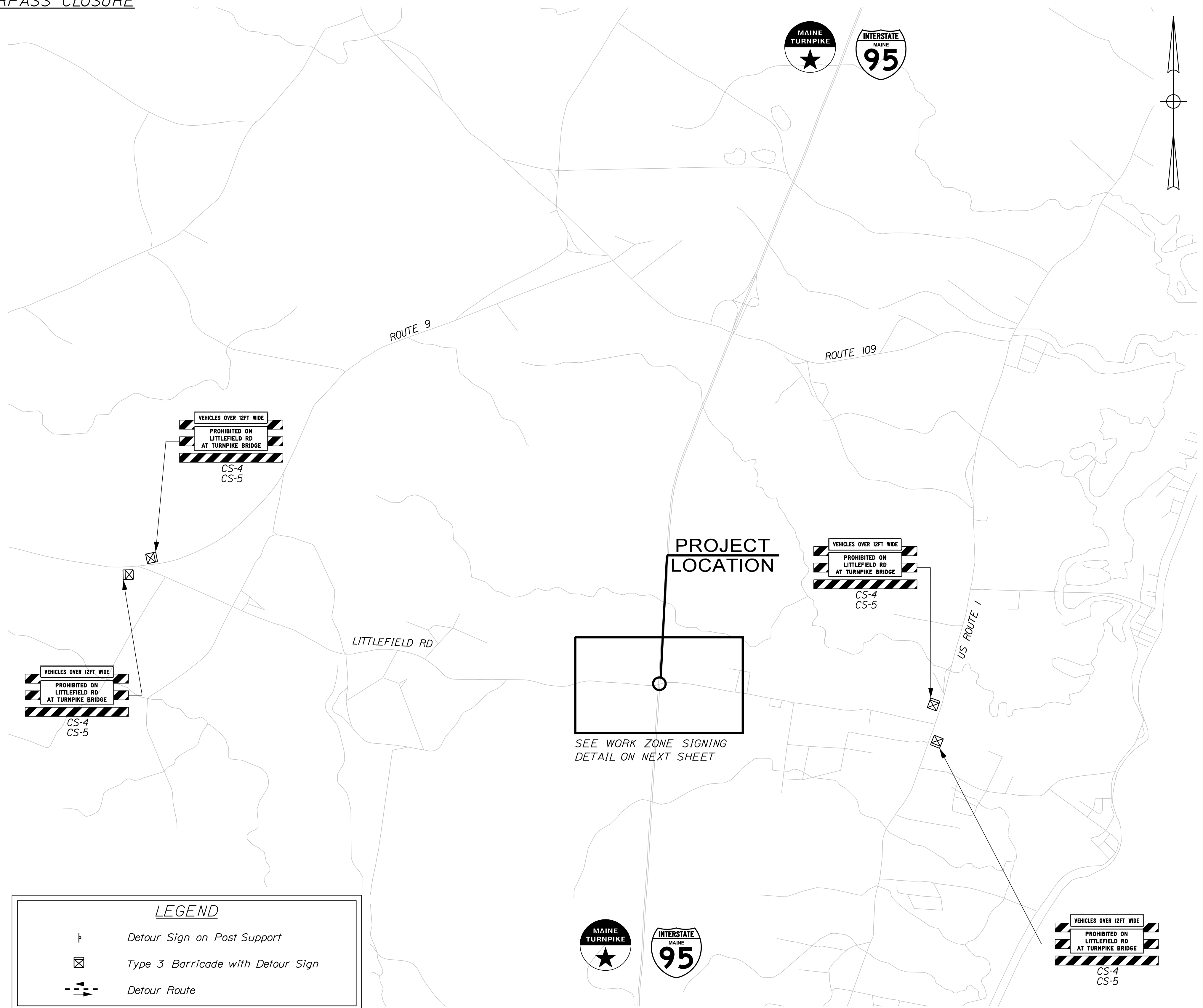
OVERSIZED VEHICLE DETOUR FOR LITTLEFIELD ROAD UNDERPASS CLOSURE

DETOUR SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
CS-4	6	6 6	96"x18"	4 - Black on Orange
CS-5	6 6 6	4.5 4.5 4.5	96"x36"	4 - Black on White
G20-2	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		36"x18"	2 - Black on Orange
R10-6			24"x36"	2 - Black on White
W3-3			36"x36"	2 - Black on Orange (Red/Yellow/Green)
W5-3			36"x36"	2 - Black on Orange
W20-1 (AHEAD)			36"x36"	2 - Black on Orange

TRAFFIC CONTROL NOTES:

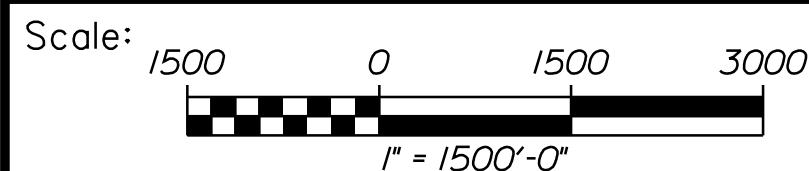
1. Advanced signing for the temporary signal system shall not be installed more than 2 days prior to the activation of the temporary signal system and shall be removed immediately after the removal of the temporary signal system.

2. The wide vehicle prohibition signs shall be in place anytime the available roadway width is less than 14'-0".



LEGEND	
	Detour Sign on Post Support
	Type 3 Barricade with Detour Sign
	Detour Route

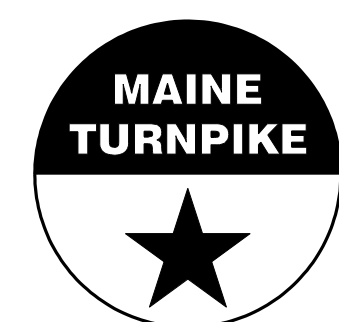
SHSB - Text Dimensions Shall Conform to "Standard Highway Signs Book" - 2012 Edition.



No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MLG	10/29/21	Checked	MDS	10/29/21
Drawn	JAR	10/29/21	In Charge of	TSB	10/29/21

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THE GOLD STAR  
 MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 LITTLEFIELD ROAD UNDERPASS  
 AT MM 17.3 IN WELLS, ME  
 SIGNING FOR TEMPORARY SIGNAL 1 OF 2

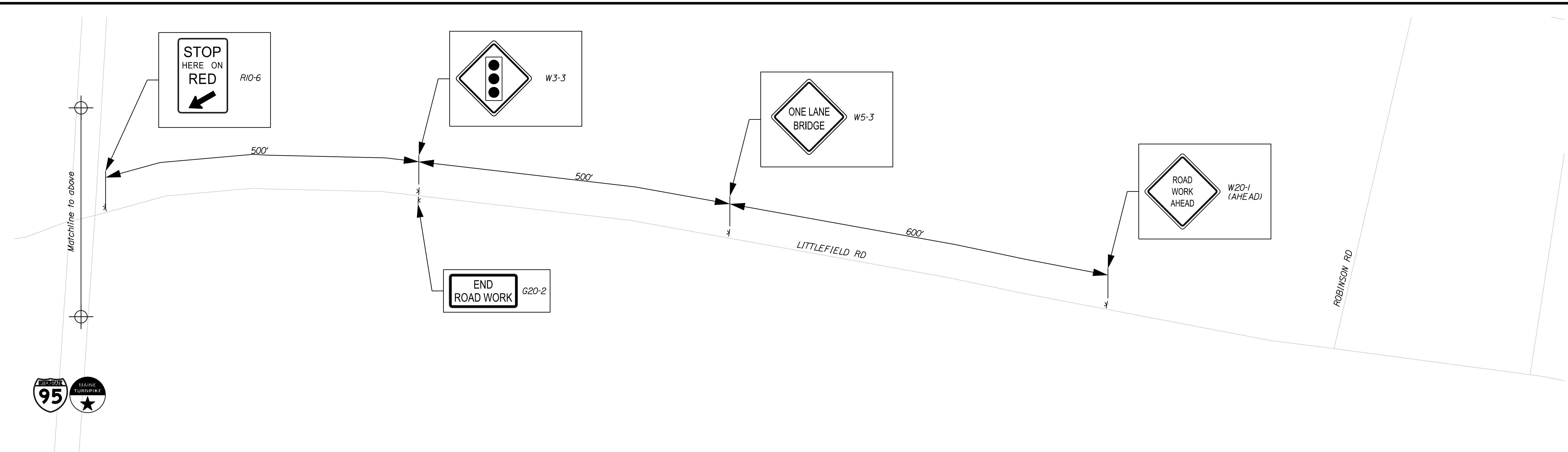
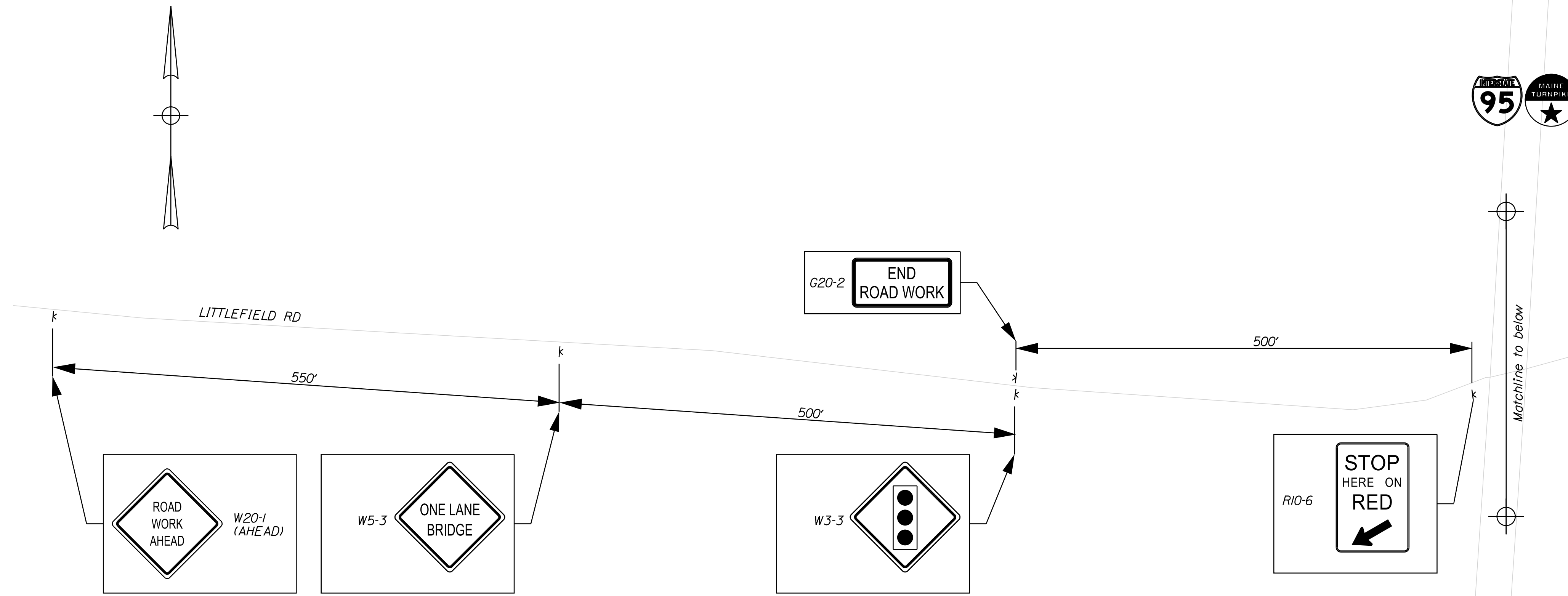
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 39  
 39 OF 117

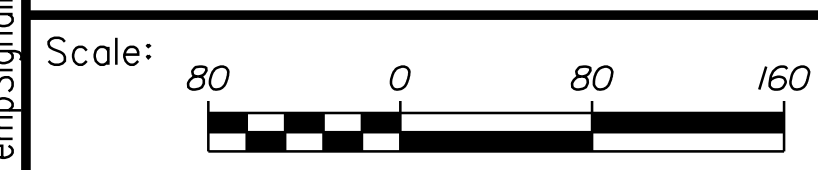
Date: 1/14/2022

Filename: ... \039\_Detour\_01.dgn

Date: 1/14/2022




Filename: ...040\_TempSignalPlan\_01.dgn



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

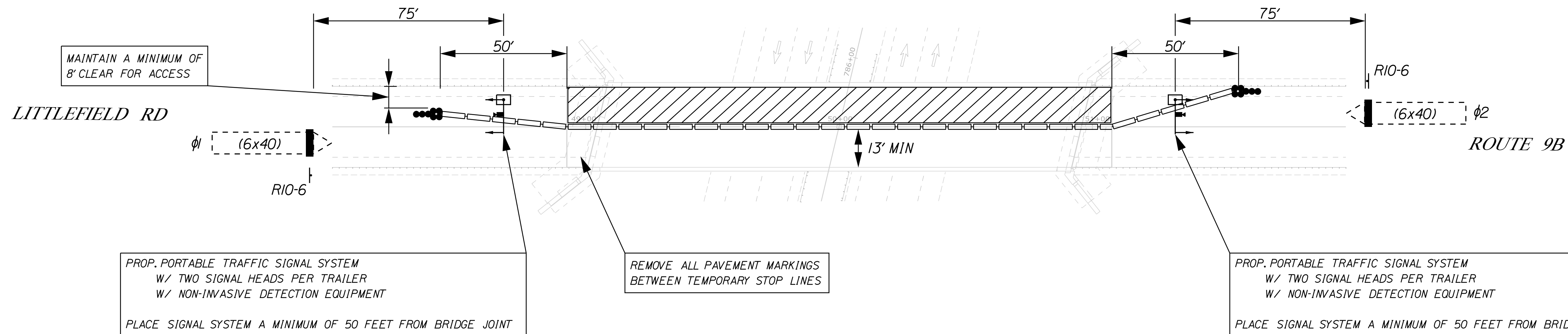
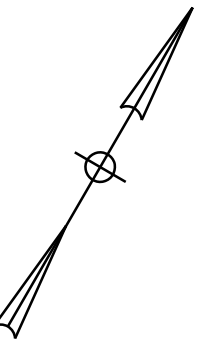
MTA PROJECT NO. 2022.04  
 LITTLEFIELD ROAD UNDERPASS  
 AT MM 17.3 IN WELLS, ME  
 SIGNING FOR TEMPORARY SIGNAL 2 OF 2

VHB: 55345.00  
 CONTRACT: 2022.04

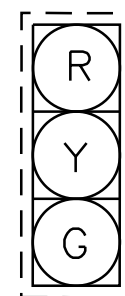
SHEET NUMBER: 40  
 40 OF 117



Date: 1/14/2022



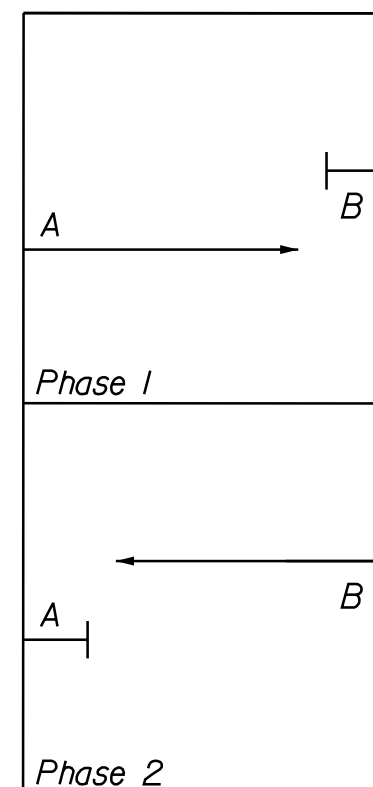
PROPOSED INDICATIONS



AI, A2  
BI, B2

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

PHASE DIAGRAM



PROPOSED TEMPORARY NEMA 4 PHASE CONTROLLER  
SIGNAL PHASING & TIMING

	PHASE 1	PHASE 2
MIN GREEN	10	10
EXTENSION	4	4
MAX 1	30	30
MAX 2	-	-
VEH CLEAR	4	4
RED CLEAR	13	13
WALK	-	-
PED CLEAR	-	-
FLASH	FR	FR
RECALL	OFF	OFF
DETECTOR	NL	NL
PRE-EMPT PRIORITY	-	-

L = LOCKING  
NL = NON-LOCKING

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.

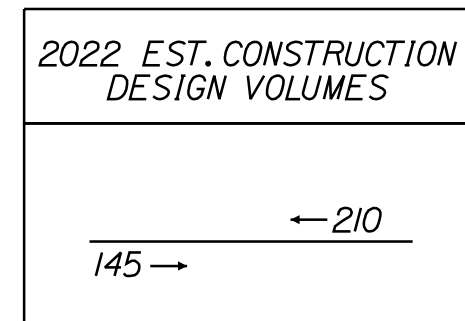
NOTES:

- SEE LITTLEFIELD ROAD UNDERPASS TEMPORARY SIGNAL  
PLAN ADVANCE SIGNING FOR APPROACH SIGNS.
- ADJUSTMENTS TO THE LOCATIONS OF THE STOP LINES  
RELATIVE TO THE BRIDGE JOINTS SHALL BE APPROVED  
BY THE RESIDENT AND MAY AFFECT THE PROPOSED  
SIGNAL TIMING.
- THE TEMPORARY TRAILER MOUNTED SIGNAL SYSTEM IS  
SHOWN AS A FEASIBLE OPTION FOR TRAFFIC CONTROL.  
THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE  
METHOD FOR MAINTAINING TRAFFIC DURING BRIDGE  
REPAIRS. ALL COSTS FOR MAINTENANCE OF TRAFFIC AT  
THE LITTLEFIELD ROAD BRIDGE SHALL BE INCIDENTAL  
TO ITEM 652.39.

PROPOSED POST MOUNTED SIGNS

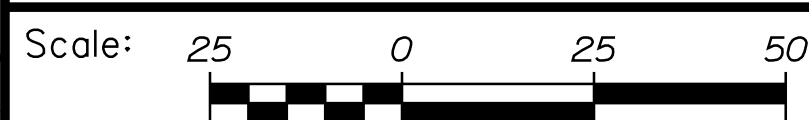


R10-6  
24"x36"  
2-PROPOSED



LEGEND

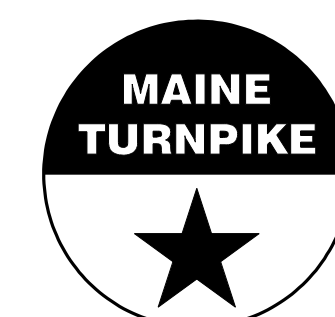
- CONSTRUCTION AREA
- PORTABLE CONCRETE BARRIER
- CHANNELIZATION DEVICES
- IMPACT ATTENUATION DEVICE
- VEHICLE DETECTION ZONE
- PORTABLE TRAFFIC SIGNAL TRAILER
- TYPE III BARRICADE



Designed by:



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Suite 105B  
South Portland, ME 04106  
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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
TEMPORARY SIGNAL PLAN - PHASE 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

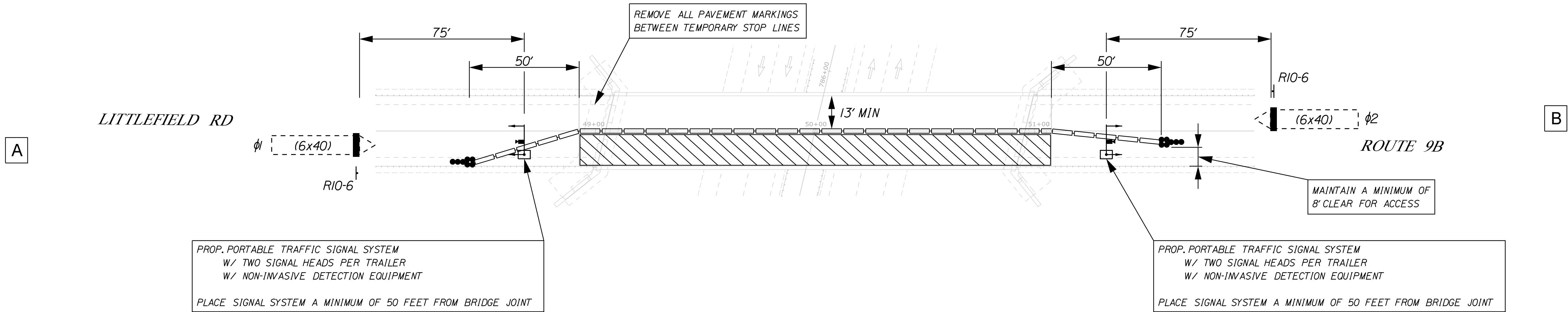
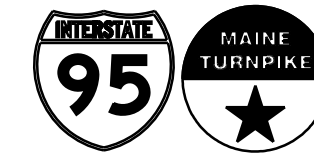
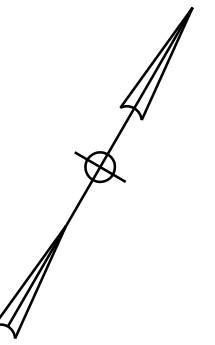
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 41  
41 OF 117

Filename: ...\\041\_TempSignalPlan\_02.dgn

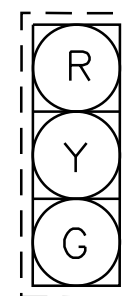
Date: 1/14/2022



PROP. PORTABLE TRAFFIC SIGNAL SYSTEM  
W/ TWO SIGNAL HEADS PER TRAILER  
W/ NON-INVASIVE DETECTION EQUIPMENT  
PLACE SIGNAL SYSTEM A MINIMUM OF 50 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 50 FEET FROM BRIDGE JOINT

PROPOSED INDICATIONS



A1, A2  
B1, B2

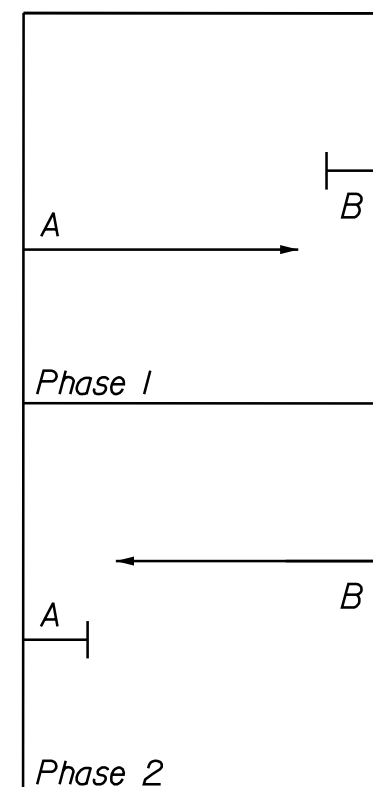
NOTE:  
ALL INDICATIONS SHALL BE 12" LIGHT  
EMITTING DIODES (LED'S) WITH 5" LOUVERED  
BACKPLATES

PROPOSED POST MOUNTED SIGNS



R10-6  
24"x36"  
2-PROPOSED

PHASE DIAGRAM



PROPOSED TEMPORARY NEMA 4 PHASE CONTROLLER  
SIGNAL PHASING & TIMING

	PHASE 1	PHASE 2
MIN GREEN	10	10
EXTENSION	4	4
MAX 1	30	30
MAX 2	-	-
VEH CLEAR	4	4
RED CLEAR	13	13
WALK	-	-
PED CLEAR	-	-
FLASH	FR	FR
RECALL	OFF	OFF
DETECTOR	NL	NL
PRE-EMPT PRIORITY	-	-

L = LOCKING  
NL = NON-LOCKING

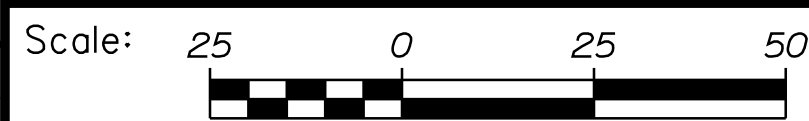
THE CONTRACTOR SHALL SET TIMING OF THE  
TEMPORARY TRAFFIC SIGNAL PER TIMING  
DATA PROVIDED. SIGNAL TIMING ADJUSTMENTS  
SHALL BE APPROVED BY THE RESIDENT AND  
ACCOMPLISHED AS DIRECTED BY THE  
RESIDENT. PAYMENT FOR ALL SIGNAL TIMING  
ADJUSTMENTS SHALL BE INCIDENTAL TO THE  
TRAFFIC SIGNAL SYSTEM.

NOTES:

- SEE LITTLEFIELD ROAD UNDERPASS TEMPORARY SIGNAL PLAN ADVANCE SIGNING FOR APPROACH SIGNS.
- ADJUSTMENTS TO THE LOCATIONS OF THE STOP LINES RELATIVE TO THE BRIDGE JOINTS SHALL BE APPROVED BY THE RESIDENT AND MAY AFFECT THE PROPOSED SIGNAL TIMING.
- THE TEMPORARY TRAILER MOUNTED SIGNAL SYSTEM IS SHOWN AS A FEASIBLE OPTION FOR TRAFFIC CONTROL. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE METHOD FOR MAINTAINING TRAFFIC DURING BRIDGE REPAIRS. ALL COSTS FOR MAINTENANCE OF TRAFFIC AT THE LITTLEFIELD ROAD BRIDGE SHALL BE INCIDENTAL TO ITEM 652.39.

LEGEND

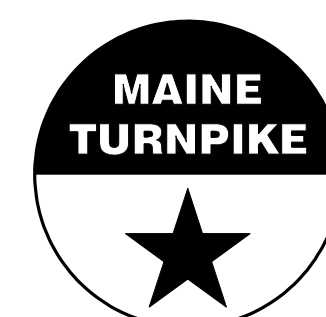
- CONSTRUCTION AREA
- PORTABLE CONCRETE BARRIER
- CHANNELIZATION DEVICES
- IMPACT ATTENUATION DEVICE
- VEHICLE DETECTION ZONE
- PORTABLE TRAFFIC SIGNAL TRAILER
- TYPE III BARRICADE



Designed by:



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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
TEMPORARY SIGNAL PLAN - PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

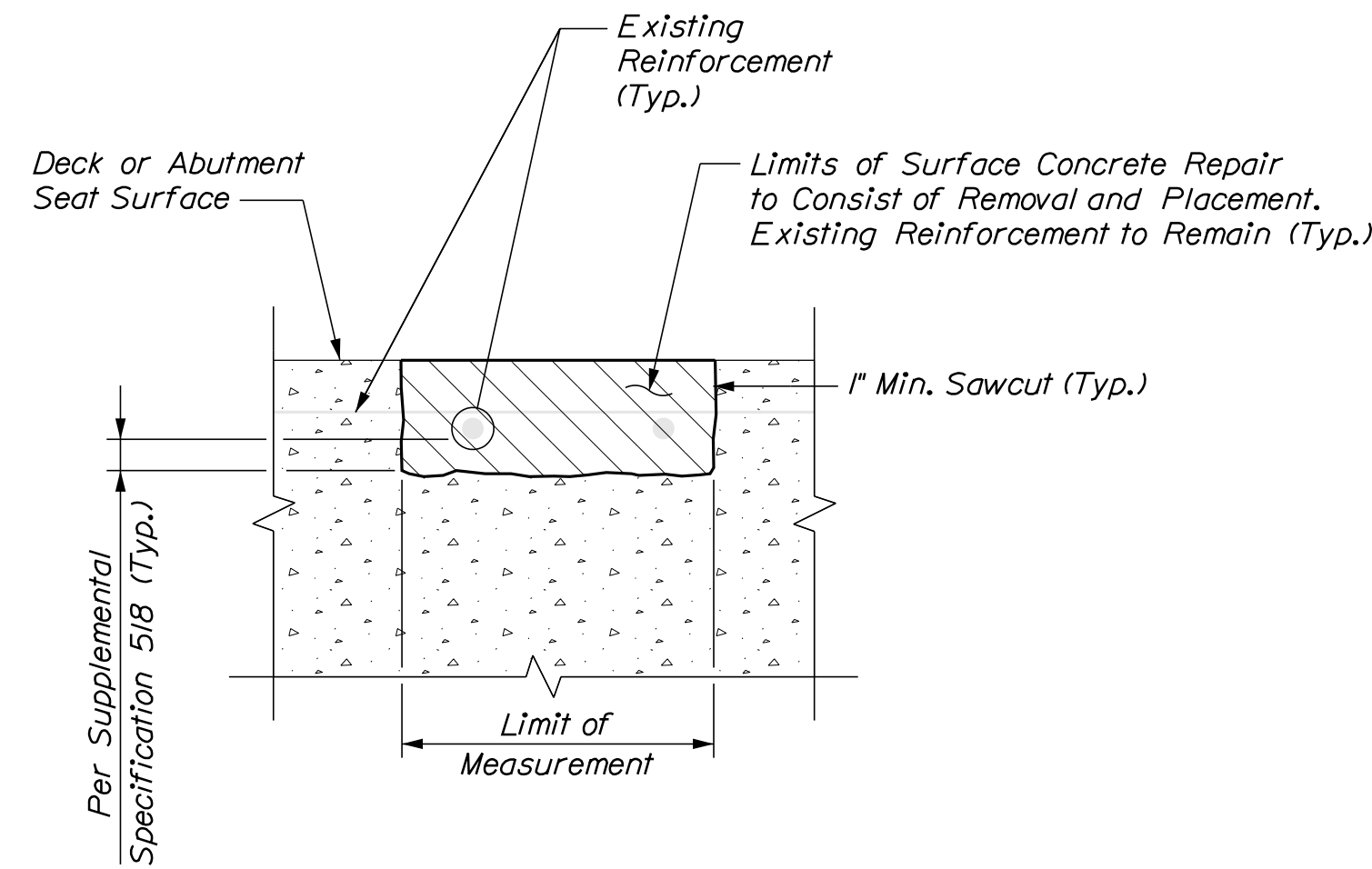
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 42  
42 OF 117

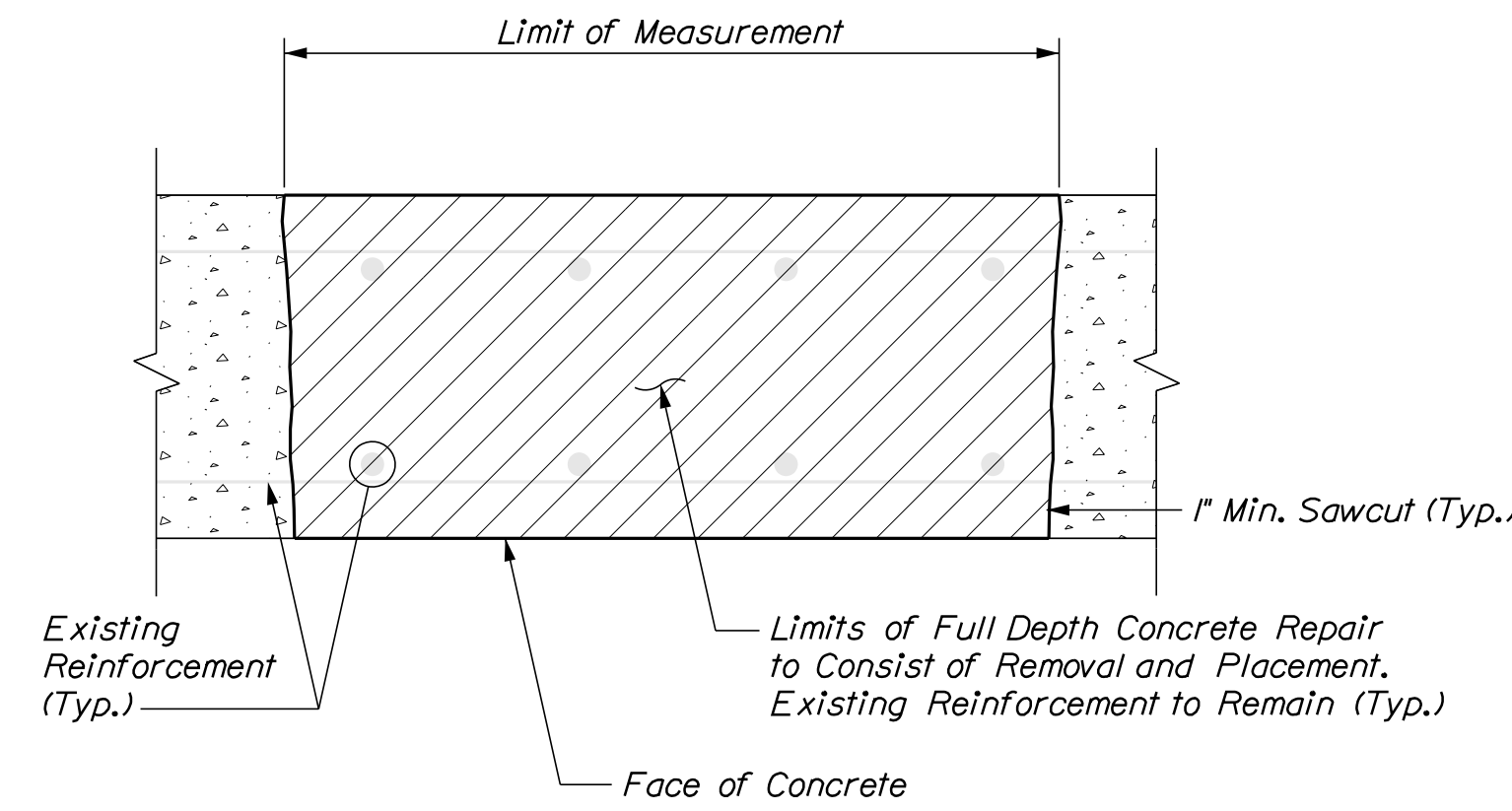
Filename: ...042\_TempSignalPlan\_03.dgn

Date: 1/14/2022

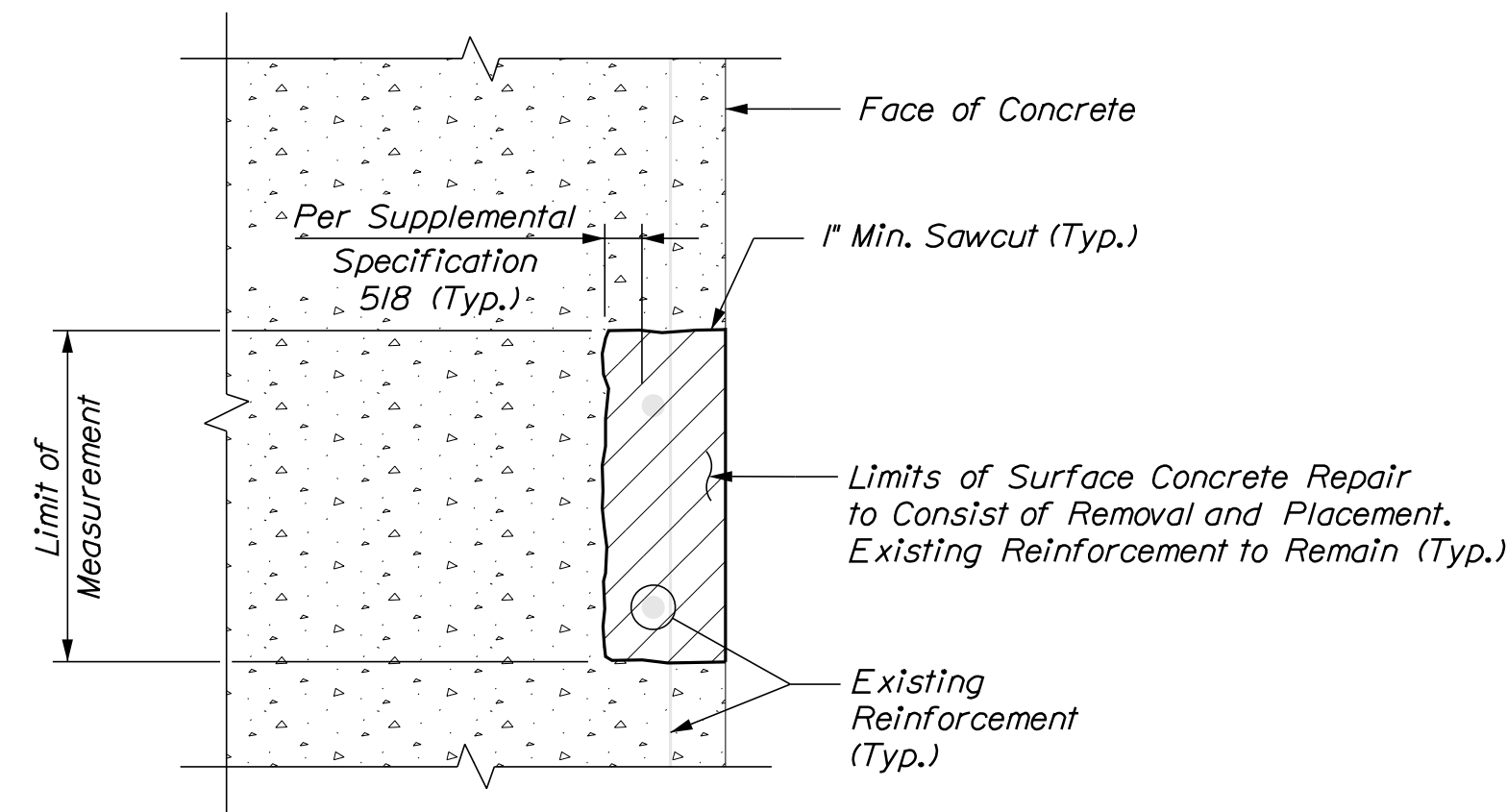
Filename: ...BRIDGE.MSTAV043\_concrepair.dgn



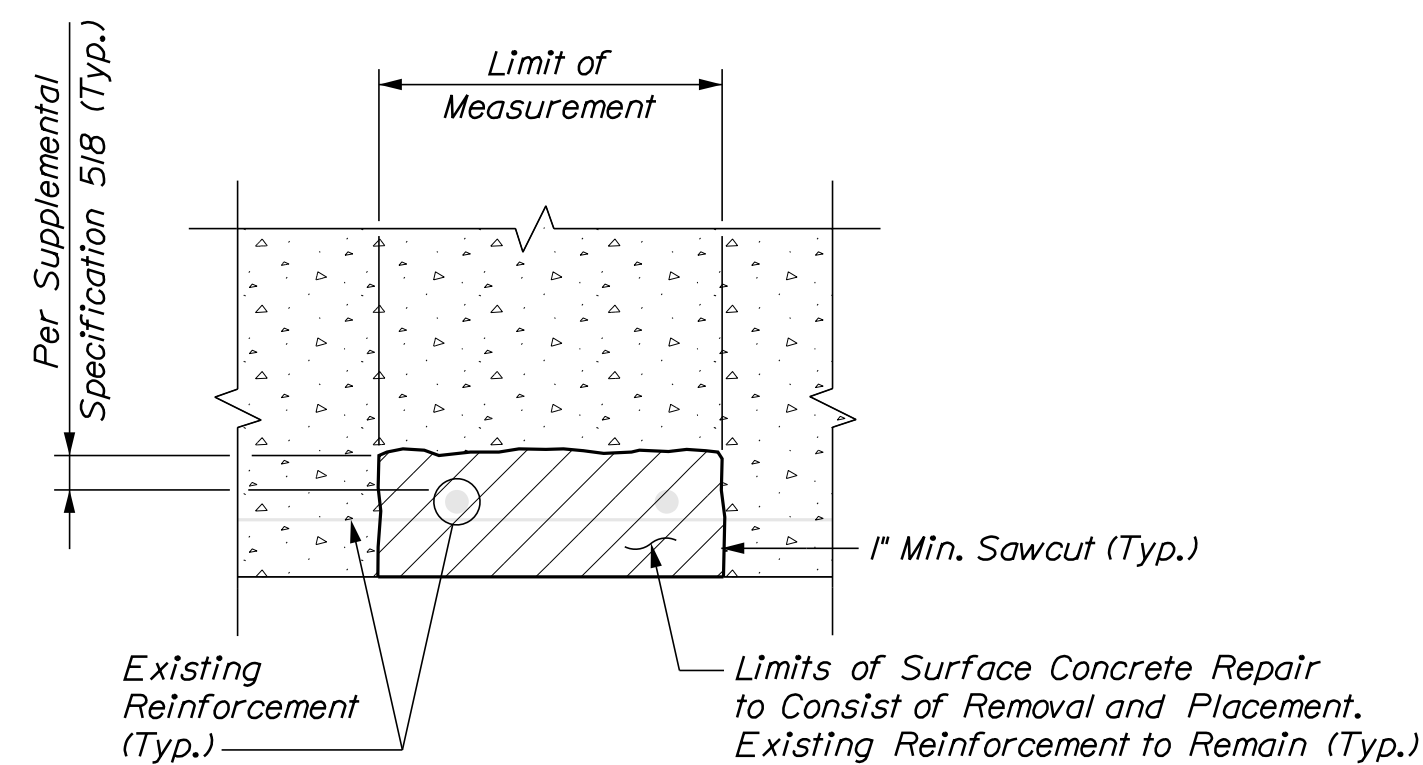
TYPICAL HORIZONTAL SURFACE CONCRETE REPAIR DETAILS



TYPICAL FULL DEPTH CONCRETE REPAIR DETAILS



TYPICAL VERTICAL SURFACE CONCRETE REPAIR DETAILS

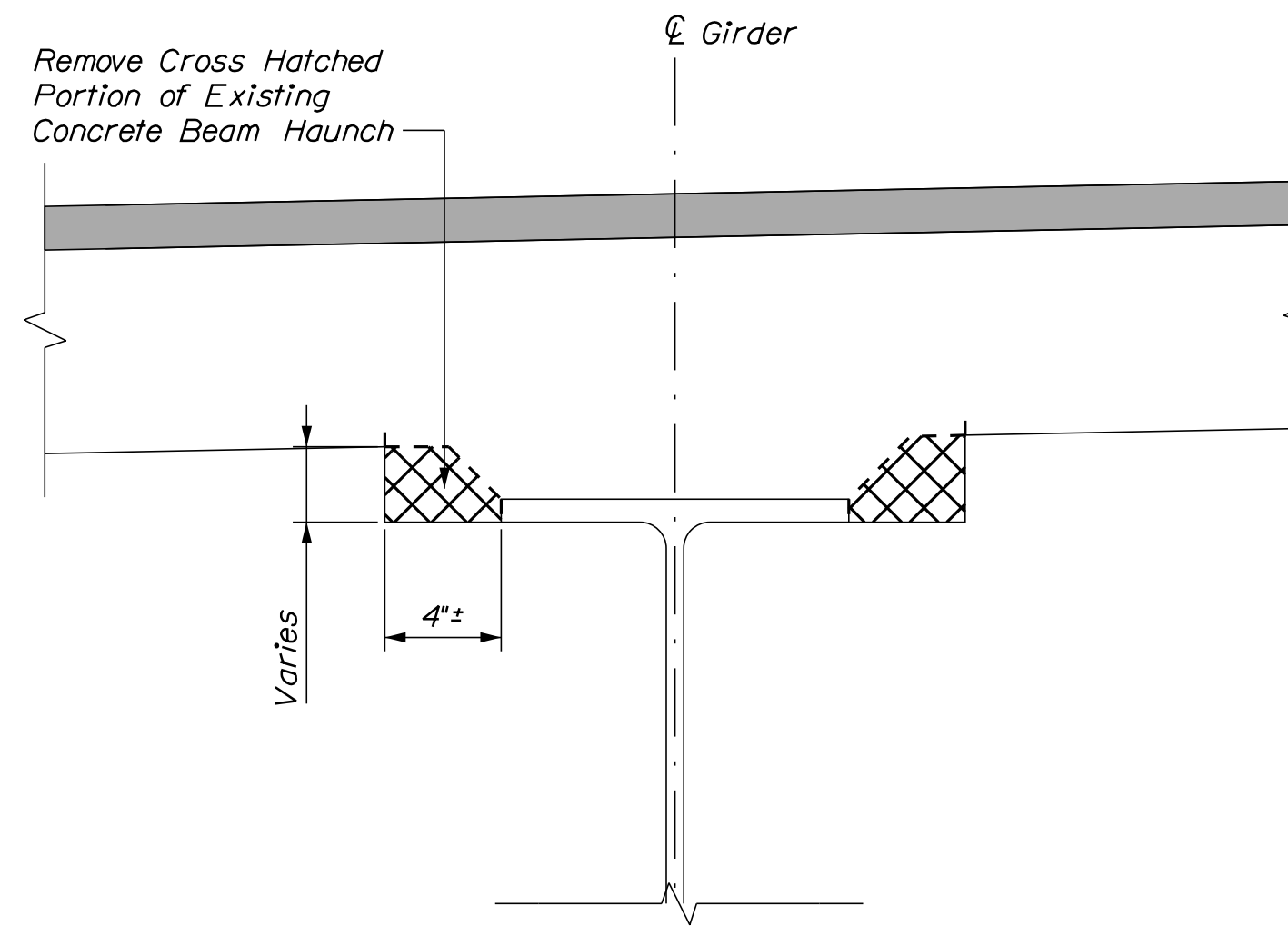


TYPICAL OVERHEAD SURFACE CONCRETE REPAIR DETAILS

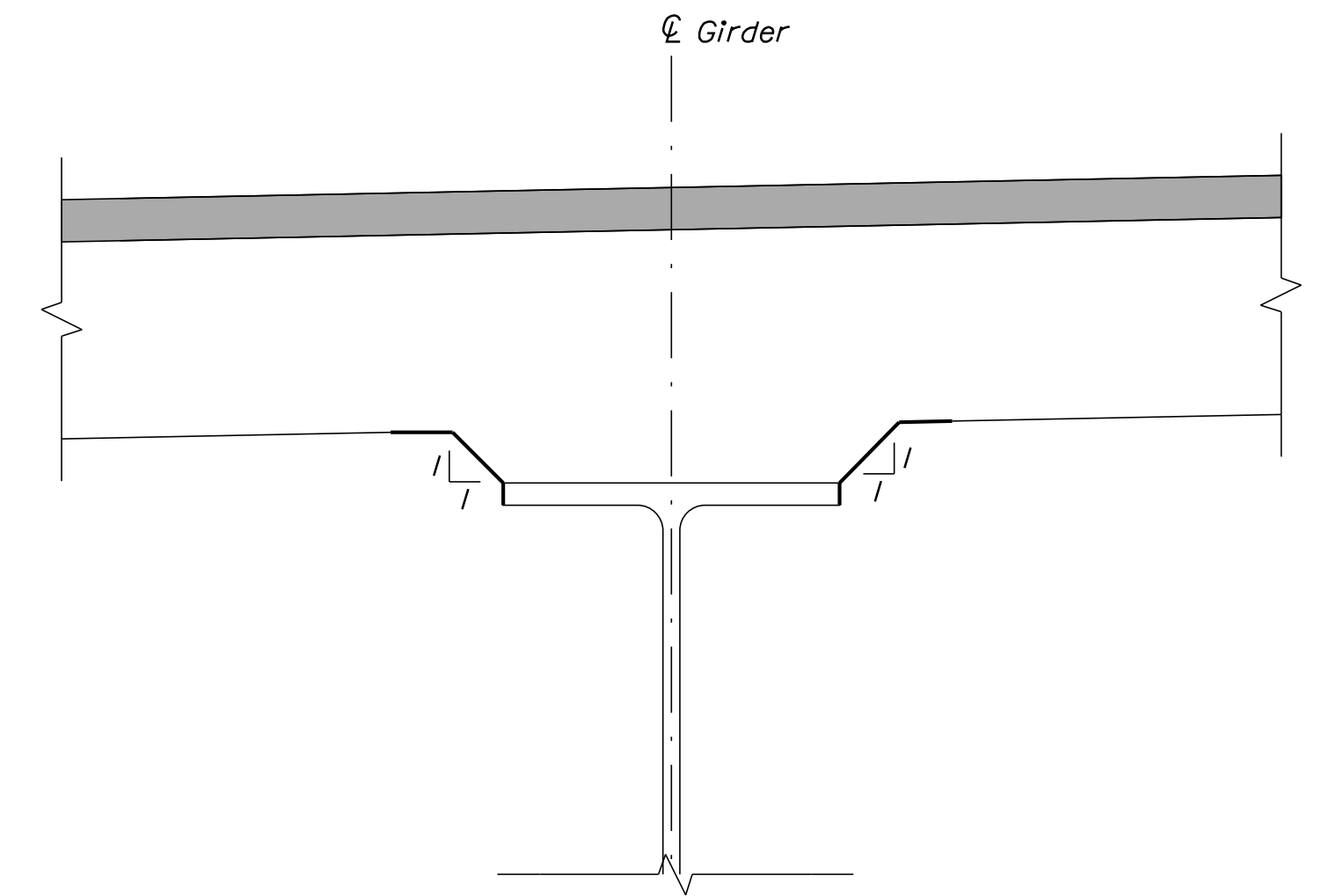
**KEY**  
 Existing Concrete  
 Proposed Concrete

**CONCRETE HAUNCH REMOVAL NOTES:**

1. The removal of the portion of the concrete haunch shown shall be paid for at the contract unit price per linear foot under Item 202.121, Removing Existing Girder Haunch. The Haunch on each side of the girder shall be measured separately for payment.
2. 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 202.121, Removing Existing Girder Haunch.



EXISTING CONDITION  
Not to Scale



FINAL CONDITION  
Not to Scale

CONCRETE HAUNCH REMOVAL DETAILS

**CONCRETE REPAIR NOTES**

1. Repair work shall include: surface concrete repairs, epoxy injection crack repair and providing access for inspection.
2. 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 Items 202.121, Removing Existing Girder Haunches, 202.122 Removing Existing Structural Concrete, 518.10 Abutment Repairs, 518.20 Pier Repairs, 518.75 Fascia and Overhang Repairs, 518.70 Repair of Overhead Surfaces <8 inches, and 518.80 Partial Depth Concrete Deck Repair.
3. 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 at the Resident's discretion.
4. The estimated repair quantities are based on inspections completed in April - December 2020.

**CONCRETE SURFACE REPAIR NOTES**

1. Perform 1" deep saw cuts along limits of removal.
2. 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.
3. Prepare and patch repair areas with Class AAA modified concrete.
4. Perform general finishing.

**EPOXY INJECTION CRACK REPAIR NOTES**

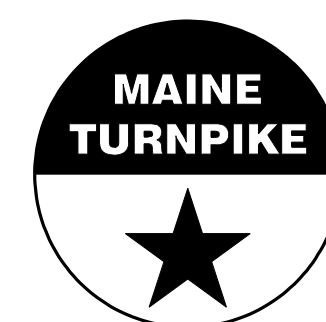
1. All crack repairs shall be completed by an individual qualified and experienced in the type of repairs proposed.
2. All crack repairs shall be completed in accordance with Supplemental Specification 518.
3. Where epoxy injection crack repair is specified the work shall include pressure injection of cracks 1/16" or more in width. Work shall be paid under Item 518.4 Epoxy Injection Crack Repair.

Scale: NOT TO SCALE

Designed by:



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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT NO. 2022.04  
 2022 SOUTHERN BRIDGE REPAIRS  
 CONCRETE REPAIR TYPICAL DETAILS

No.	Revision	By	Date

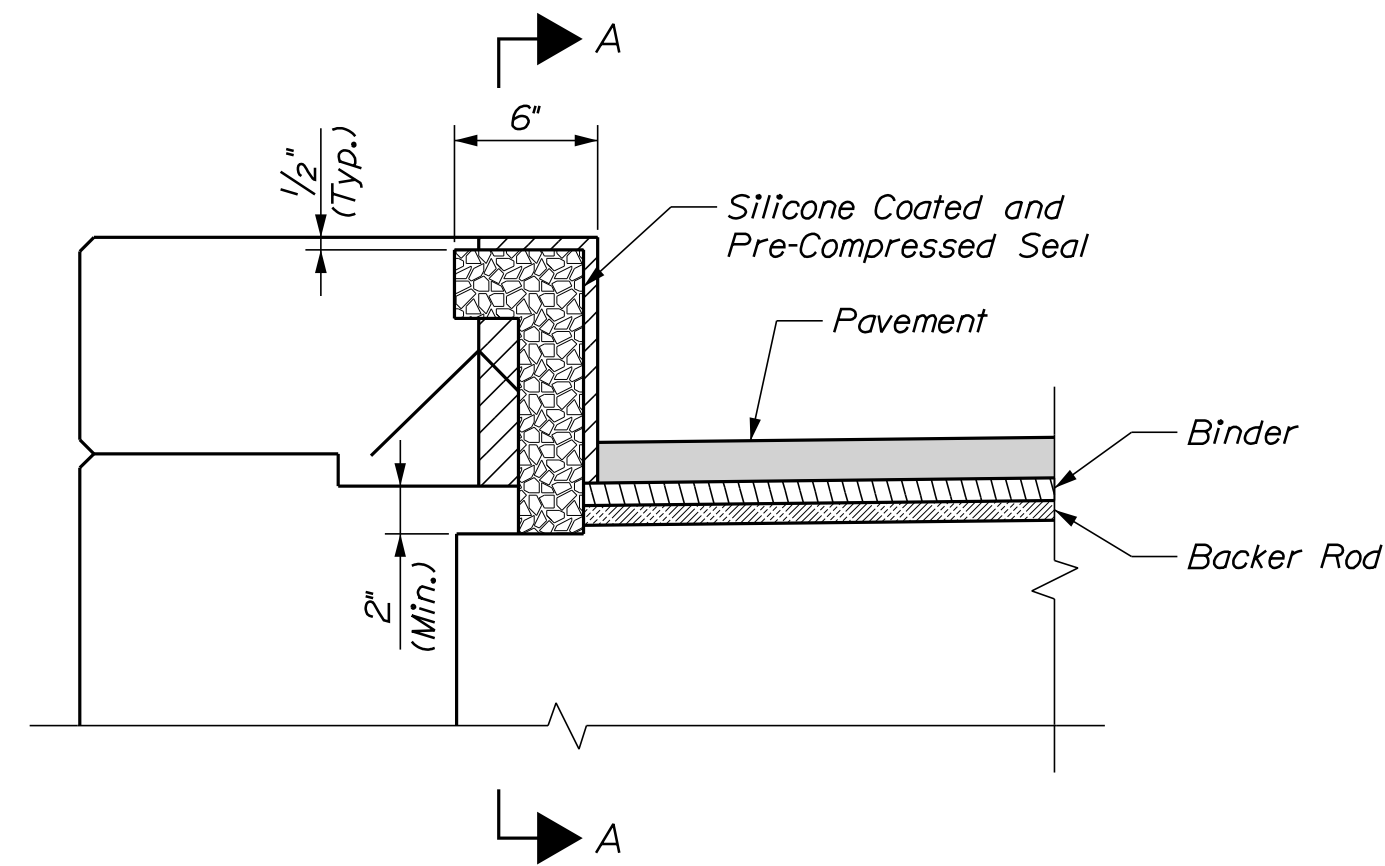
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: Ralph Norwood, IV

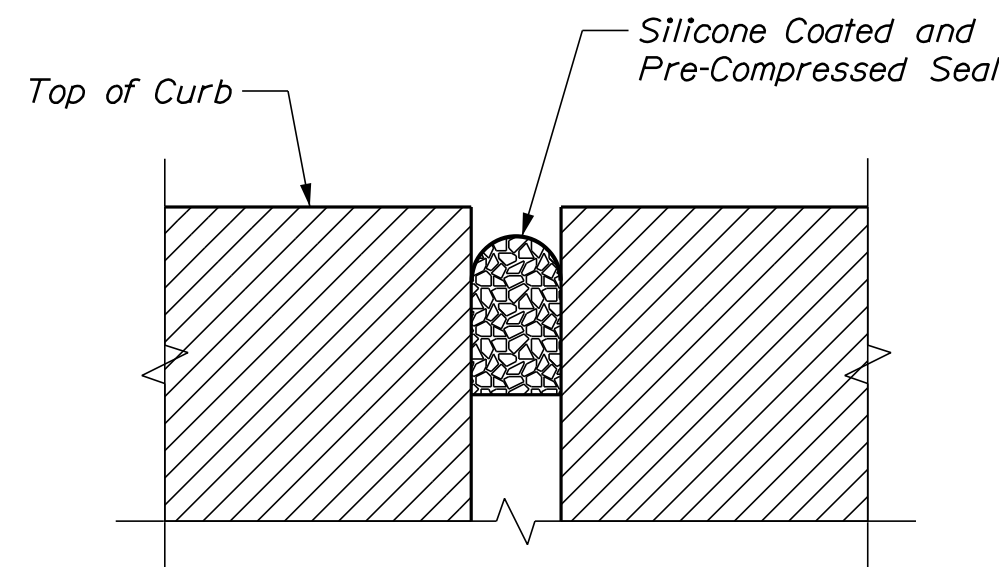
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 43  
 43 OF 117

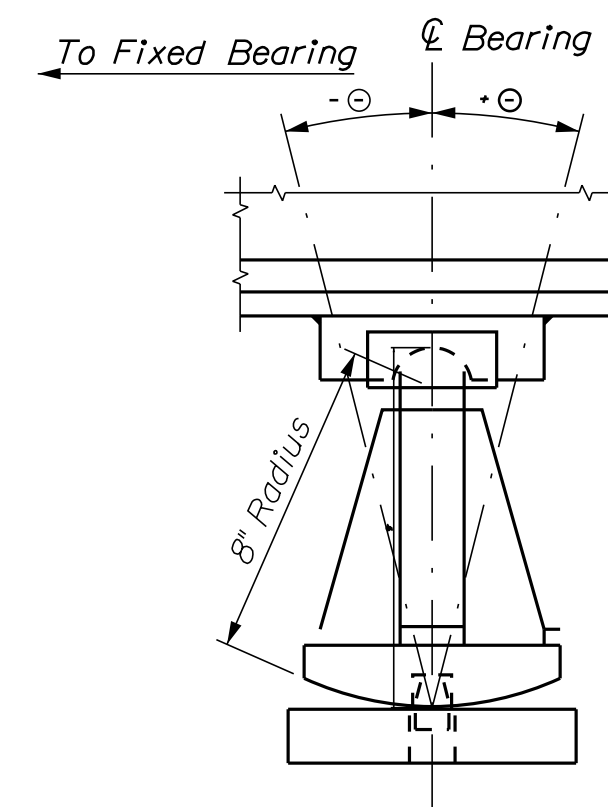
Date: 1/14/2022



**JOINT DETAIL AT CURB**  
(Fascia Curb Shown, Median Curb Similar)  
Not to Scale



**SECTION A-A**  
Not to Scale



**EXPANSION BEARING SETTING DIAGRAM**  
Not to Scale

Temp. (deg. F):	Theta (deg.) <sup>⊙</sup> Abutment 2
30	-1.92
40	-0.64
45	0.00
50	0.64
60	1.92
70	3.20
80	4.47
90	5.75

**ROUTE 236 BEARINGS TABLE**

Temp. (deg. F):	Theta (deg.) <sup>⊙</sup> Abutment 2
30	-1.91
40	-0.64
45	0.00
50	0.64
60	1.91
70	3.19
80	4.46
90	5.72

**RAMP J BEARINGS TABLE**

**JOINT NOTES**

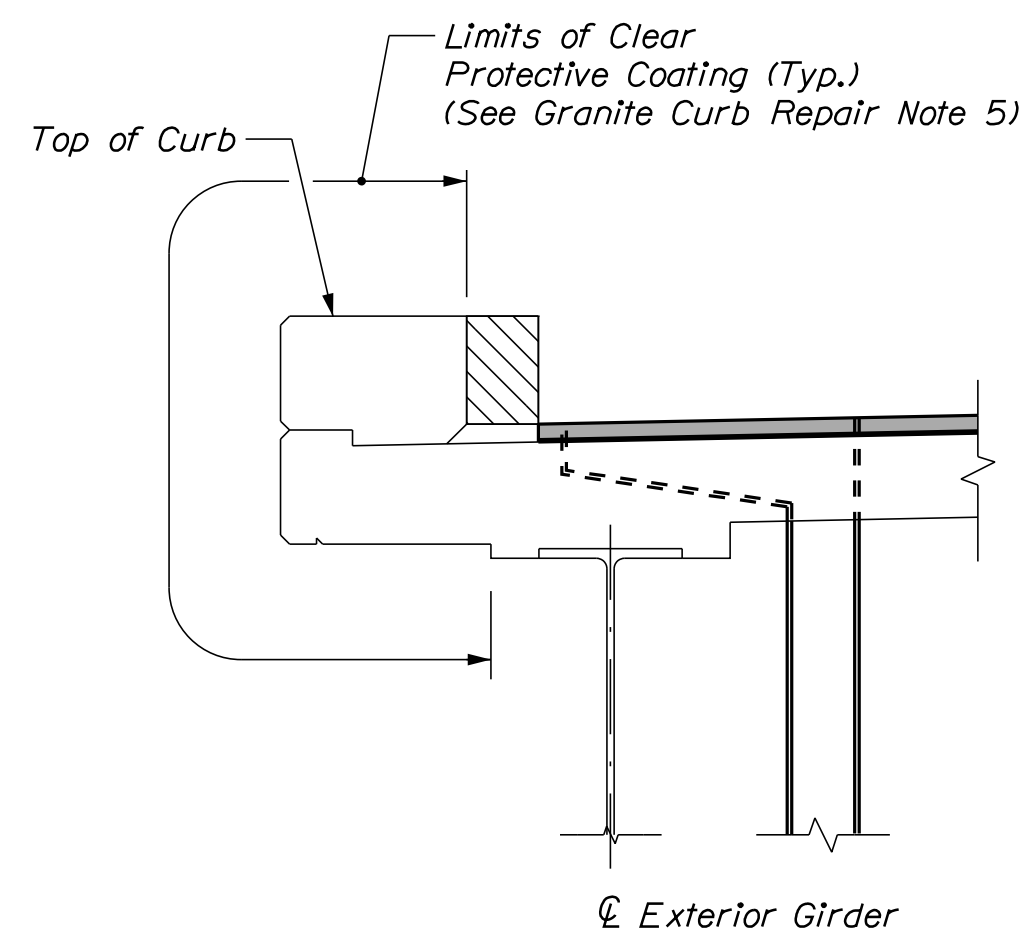
1. Joint Detail at Curb applies to all locations which are receiving a new or replacement Asphaltic Plug Joint. Asphaltic Plug Joints shall be from the MaineDOT Qualified Products List.
2. Silicone Coated and Pre-Compressed Seal shall be an emseal bridge expansion joint system (BEJS) seal. Installation shall be in accordance with manufacturer specification. Payment shall be incidental to Item 520.23, Asphaltic Plug Joint.
3. After the installation of the asphaltic plug joint system. The bonded Silicone Coated and Pre-Compressed Seal shall be installed in the curbs as shown on the plans and as recommended by the manufacturer.
4. Individual pavement lifts for the approach pavement shall not exceed 1/2".

**BEARING REPAIR NOTES**

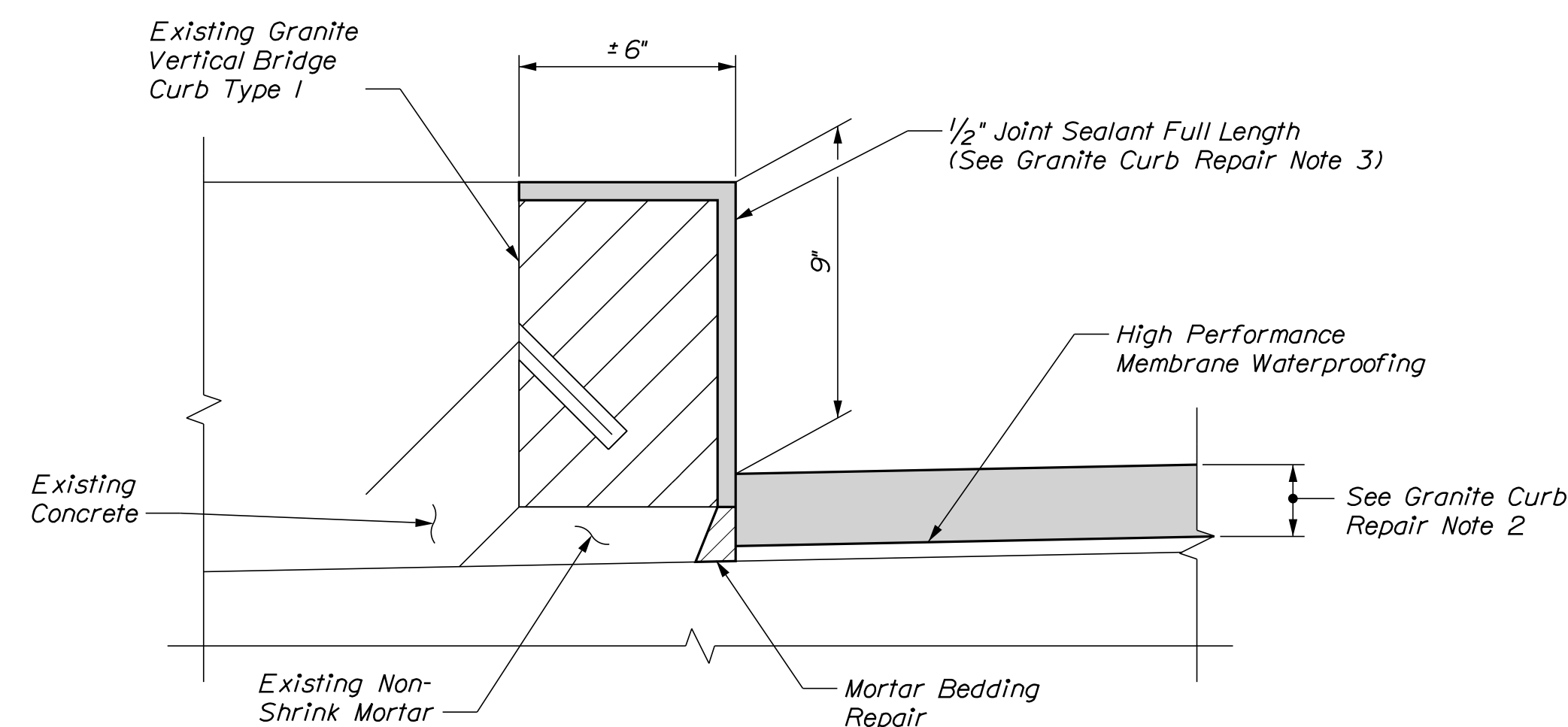
1. Resetting the bearings shall be paid for under Item 523.1201, Reset Steel Bearings and all labor, equipment, and materials necessary to raise the existing bridge to accommodate this work shall be paid for under Item 524.7212, Jacking Existing Superstructure.
2. All existing dimensions and information shown on the plans are based on as-built and standard detail drawings. The Contractor shall field verify all relevant dimensions prior to submission of Jacking Plan.
3. See Special Provisions for lead paint removal requirements.
4. Bearings shall be reset prior to modifications of bridge joints.
5. The temporary support and jacking system shall be designed by the Contractor. See Special Provision 524 for additional requirements.

**GRANITE CURB REPAIR NOTES**

1. A bead of Hot-Applied Rubberized asphalt sealer shall be applied along curb lines after installation of base course. Payment shall not be made directly but shall be considered incidental to related contract items.
2. The Contractor shall treat corners and the vertical face of curbing in accordance with Special Provision section 508.
3. Joint sealant shall be a material from the MaineDOT approved products list as approved by the Resident. Joint sealant shall be incidental to item 518.391, Repairing Granite Curb Joint and Bedding Mortar.
4. Mortar for bedding and for joints in granite curb on bridges where required shall be an approved non-shrink mortar in accordance with Supplemental Specification 518.
5. Limits of clear protective coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.



**CURB DETAIL**  
(Bridge Rail not Shown for Clarity)  
Scale: 3/4" = 1'-0"



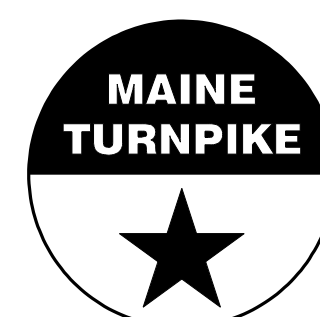
**EXISTING GRANITE CURB DETAIL**  
Scale: 3" = 1'-0"

Scale: AS NOTED

Designed by:



VANASSE HANGEN BRUSTLIN, INC.  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.04  
2022 SOUTHERN BRIDGE REPAIRS

MISCELLANEOUS DETAILS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

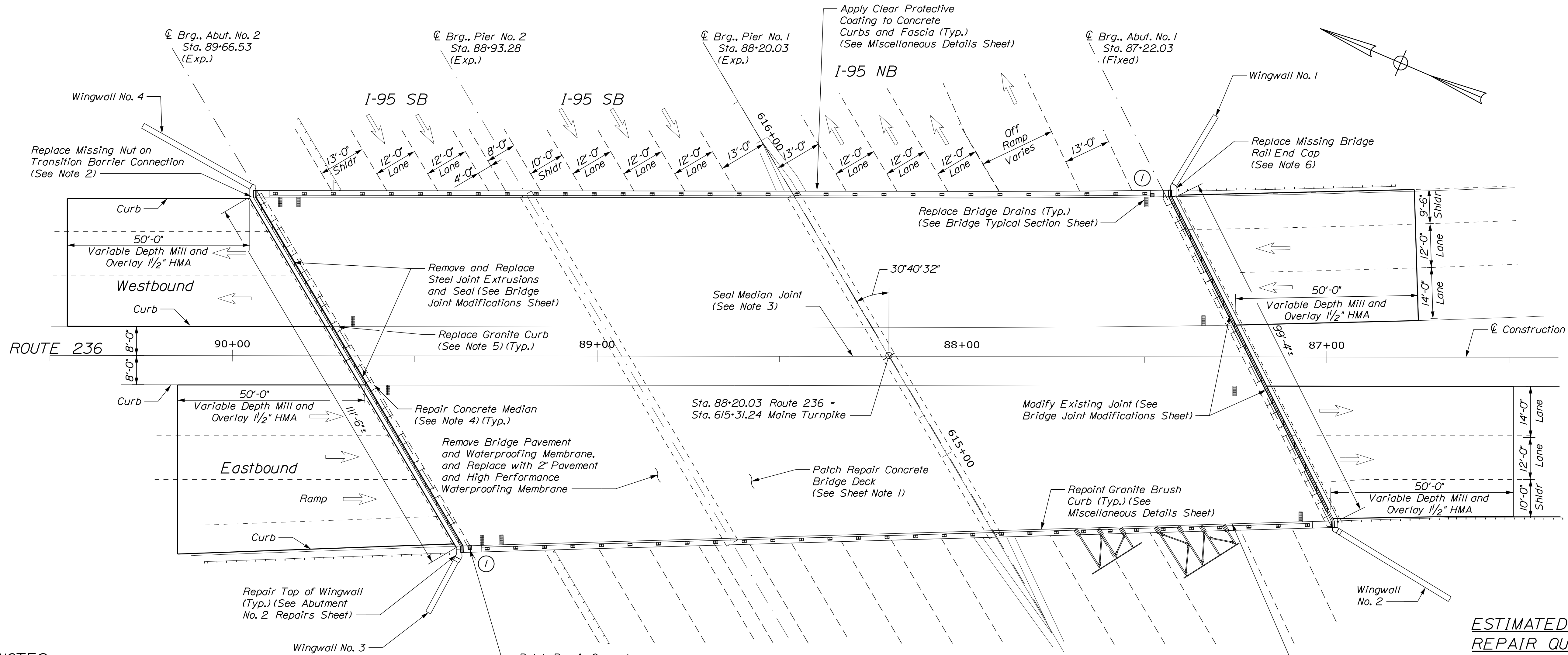
MTA PROJECT MANAGER: Ralph Norwood, IV

VHB: 55345.00  
CONTRACT: 2022.04

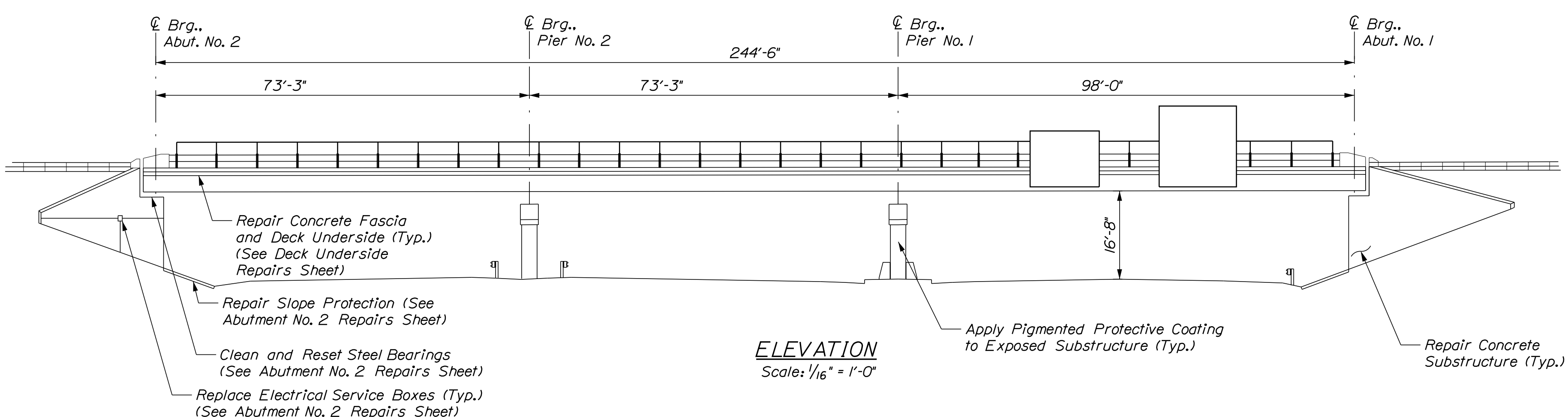
SHEET NUMBER: 44  
44 OF 117

Filename: ...044\_Misc\_De\_01.dgn

Date: 1/14/2022



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



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

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Partial Depth Concrete Deck Repairs	640*
Transition Barrier Repairs	5**

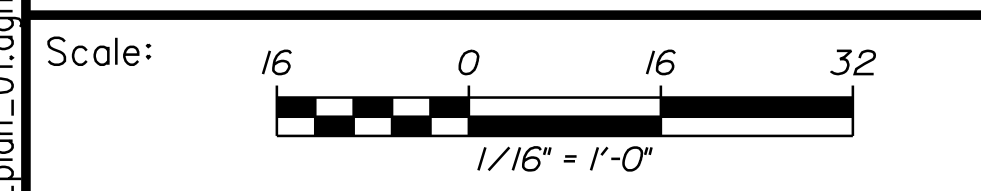
\* Assumes 3% of the Deck will require Partial Depth Concrete Repairs  
 \*\* Includes 3 S.F. Additional Repair Quantity As a Contingency

- KEY**
- Limit of Crack Repair
  - Limit of Surface Patch Repair
  - Linear Feet of Crack Repair
  - Square Footage of Repair

**SHEET NOTE**  
 1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

**NOTES**

1. Transition barrier concrete repairs shall be paid for under Item 518.10, Abutment Repairs.
2. Replace missing nut on transition barrier as directed by the Resident. Labor and materials shall be incidental to the related Contract Items.
3. Replace Median Joint Seal with Silicone Coated and Pre-Compressed Seal. This work shall be paid for under Item 520.234, Expansion Device-Silicone Coated and Pre-Compressed Seal.
4. Patch repair spalled portion of the concrete median. This work shall be paid for under item 518.80 Partial Depth Concrete Deck Repairs.
5. Replace portion of missing or damaged granite curb as directed by the Resident. This work shall be paid for under Item 609.11 Vertical Curb Type 1.
6. Replace missing bridge rail end cap as directed by the Resident. This work shall be incidental to the related Contract Items.
7. Removing previous sign bolts and patch repairing curb shall be incidental to Item 518.80, Partial Depth Concrete Deck Repairs.



Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
No.	Revision	By	Date	By	Date

VANASSE HANGEN BRUSTLIN, INC.  
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 Suite 105B  
 South Portland, ME 04106  
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**THE GOLD STAR MEMORIAL HIGHWAY**

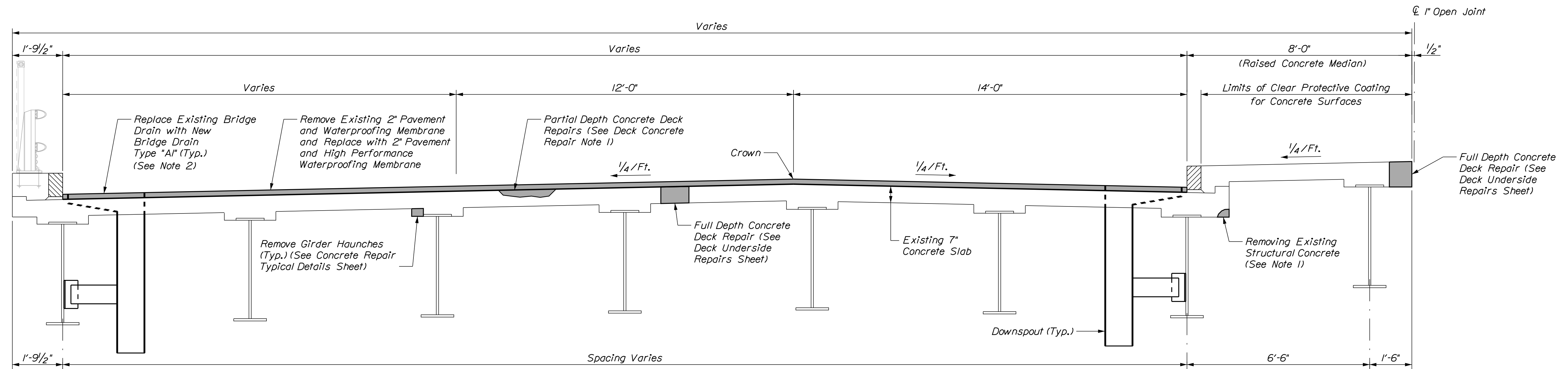
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 ROUTE 236 UNDERPASS  
 AT MM 1.25 IN YORK, ME  
 GENERAL PLAN AND ELEVATION

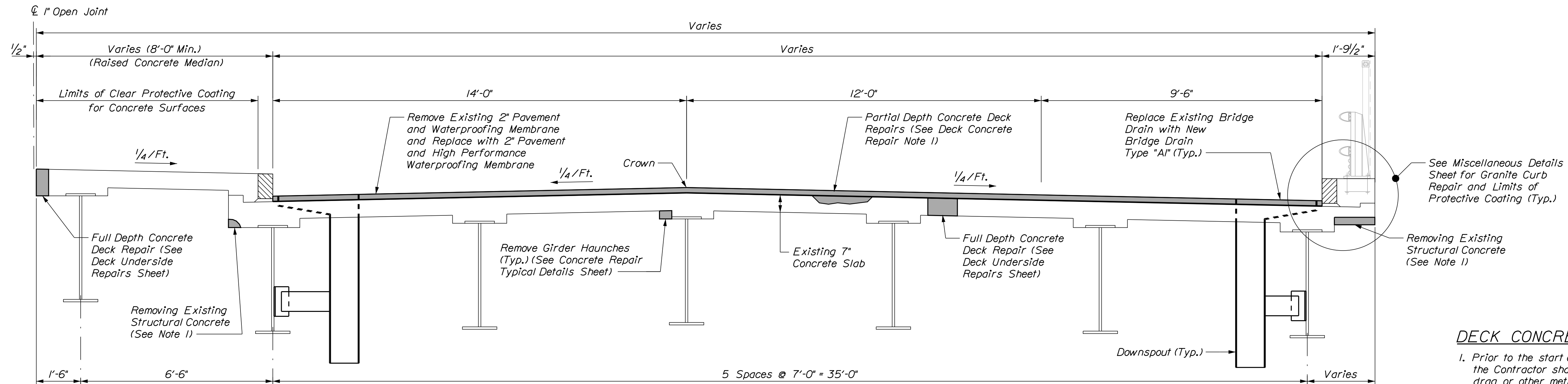
VHB: 55345.00  
 SHEET NUMBER: 45  
 CONTRACT: 2022.04  
 45 OF 117

Filename: ...045\_plan\_01.dgn

Date: 1/14/2022



**SUPERSTRUCTURE TYPICAL SECTION - EASTBOUND**



**SUPERSTRUCTURE TYPICAL SECTION - WESTBOUND**

**DECK CONCRETE REPAIR NOTES**

1. Prior to the start of deck concrete repairs, the Resident and the Contractor shall sound all deck concrete using a chain drag or other method approved by the Resident to determine the required repair limits. All costs for sounding the existing deck concrete shall be incidental to Item 518.80, Partial Depth Concrete Deck Repairs.
2. Sawcut 1" deep along all limits of removal.
3. 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.
4. Prepare and patch repair deteriorated areas. Install new reinforcing steel, as required. See Supplemental Specification 518.


**NOTES**

1. Contractor shall coat all exposed reinforcing steel after removing structural concrete at the fascias and median haunch. Work shall be incidental to Item 202.122, Removing Existing Structural Concrete.
2. Replacing the bridge drains shall be paid for under Item 502.702, Replace Bridge Drain (Type AI).

Scale: 1/2" = 1'-0"

No.	Revision	By	Date


Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

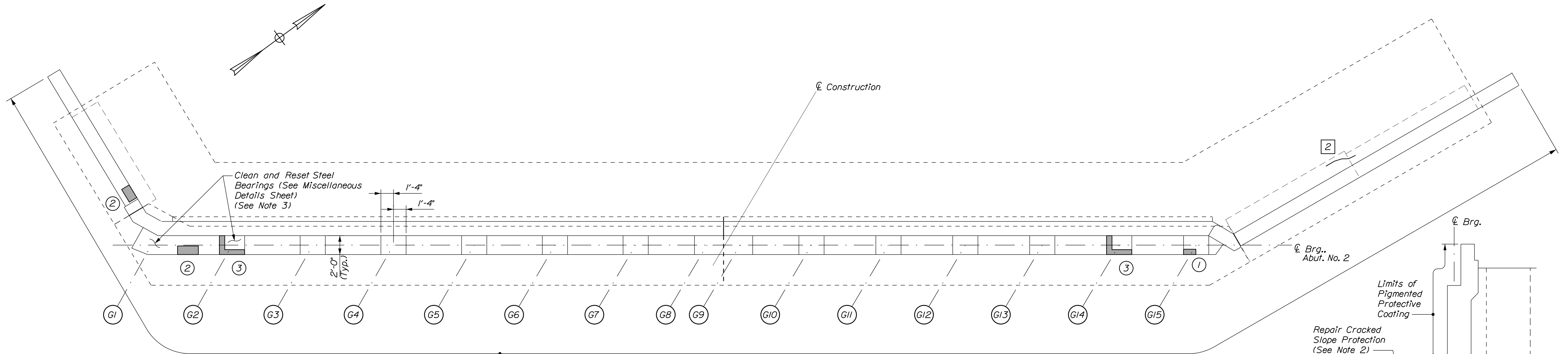
MTA PROJECT NO. 2022.04  
 ROUTE 236 UNDERPASS  
 AT MM 1.25 IN YORK, ME  
 BRIDGE TYPICAL SECTION

VHB: 55345.00  
 CONTRACT: 2022.04  
 SHEET NUMBER: 46  
 46 OF 117

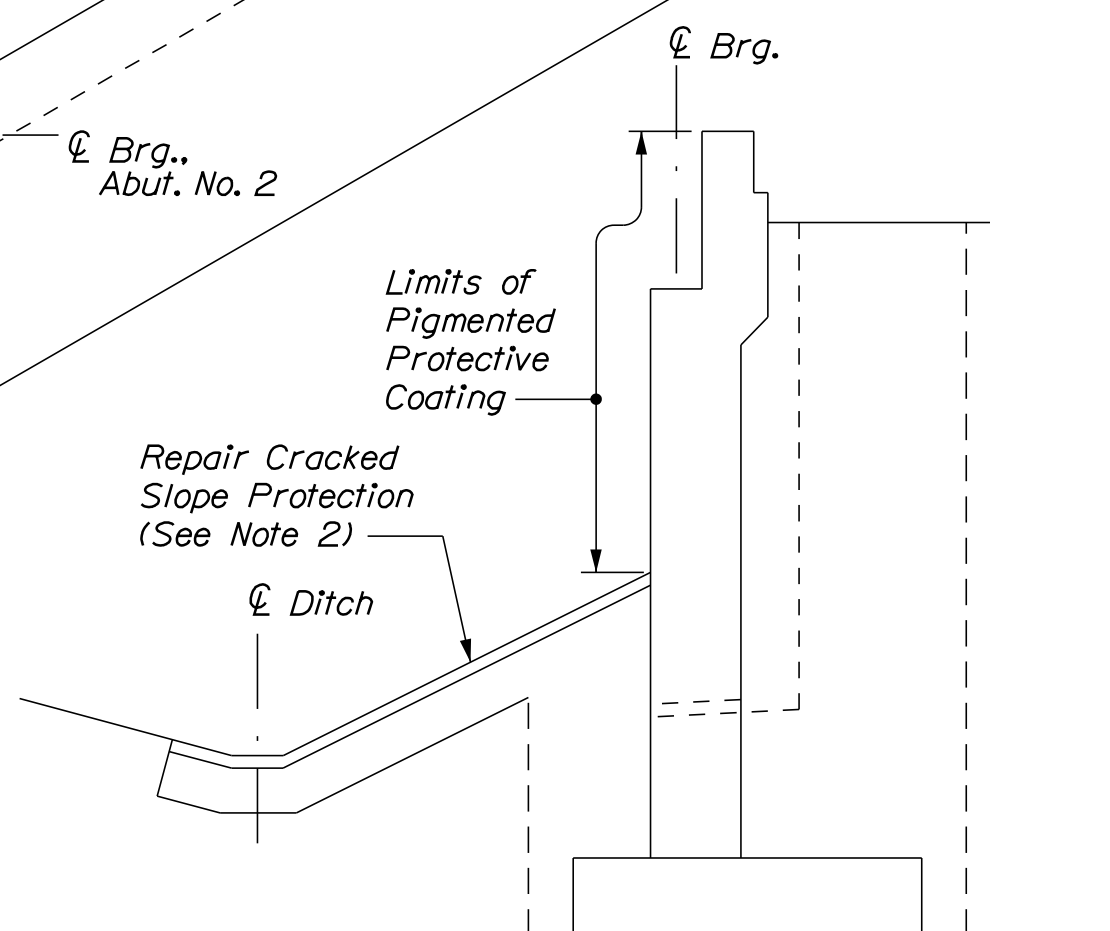
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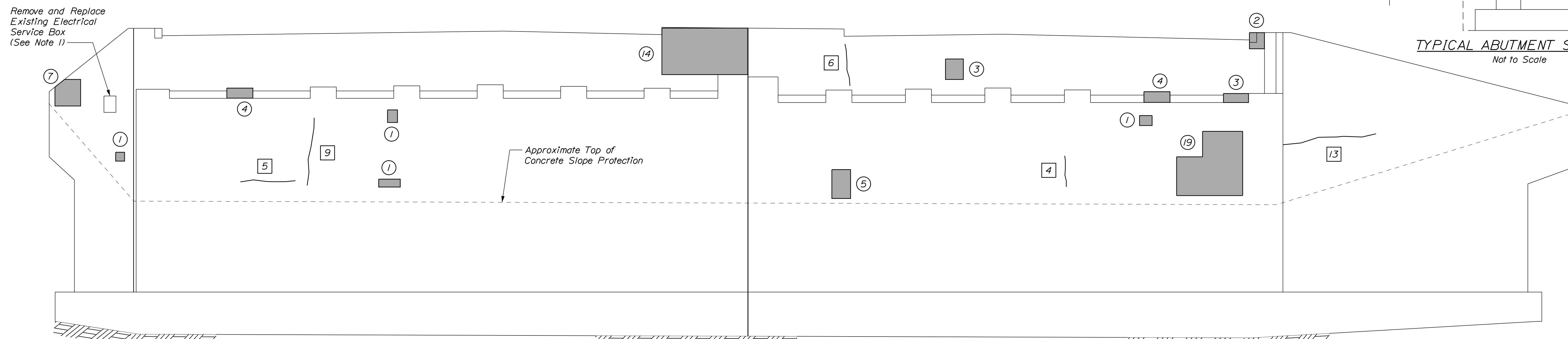
Date: 1/14/2022



**PLAN**  
Scale: 3/16" = 1'-0"



**TYPICAL ABUTMENT SECTION**  
Not to Scale



**ELEVATION**  
Scale: 3/16" = 1'-0"

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF/LF)**

Surface Abutment Repairs	95*
*Includes 19 S.F. Additional Repair Quantity As A Contingency	
Epoxy Injection Crack Repair	45**
**Includes 6 L.F. Additional Repair Quantity As A Contingency	

- NOTES**
- All electrical work associated with the replacement of the electrical junction box shall be incidental to Item 626.15, Electrical Service Box.
  - Repair Slope Protection as directed by the Resident. Slope Protection repair material shall be in accordance with Supplemental Specification 518. This work shall be paid for under Item 518.92, Slope Protection Repair.
  - All labor, equipment, and materials necessary to jack and reset the bearings shall be paid for under Item 524.72/2 Jacking Existing Superstructure (RT 236) and Item 523.120/1 Reset Steel Bearings respectively. See Miscellaneous Details Sheet for information on resetting the bearings.


- SHEET NOTE**
- For Concrete and Crack Repair Notes and Details see Concrete Repair Typical Details Sheet.
- KEY**
- ~ Limit of Crack Repair
  - Limit of Surface Patch Repair
  - Linear Feet of Crack Repair
  - Square Footage of Repair

Filename: ...048\_Abutment\_02.dgn



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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



**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

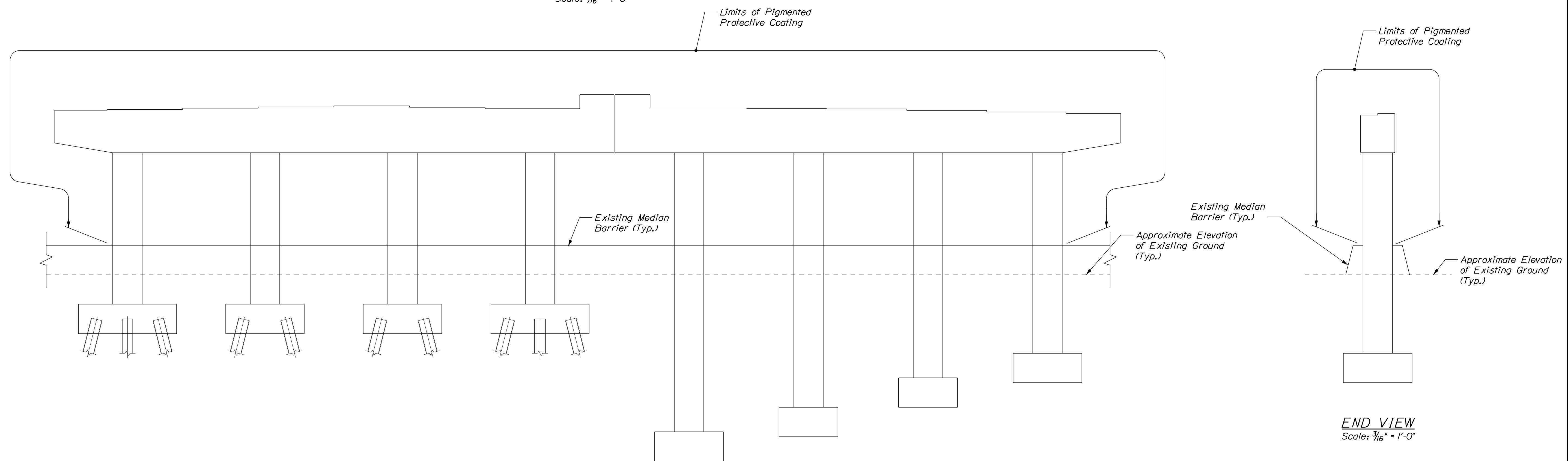
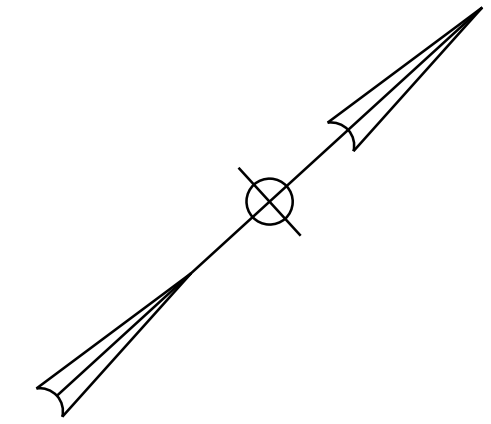
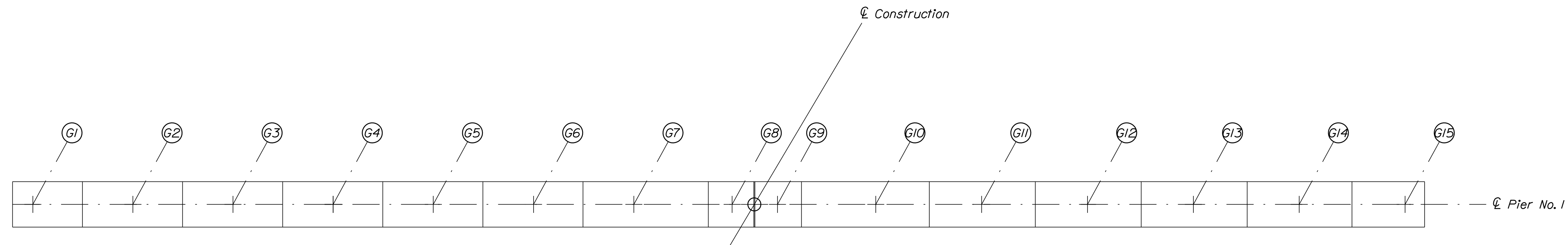
MTA PROJECT NO. 2022.04  
ROUTE 236 UNDERPASS  
AT MM 1.25 IN YORK, ME  
ABUTMENT NO. 2 REPAIRS

VHB: 55345.00  
CONTRACT: 2022.04

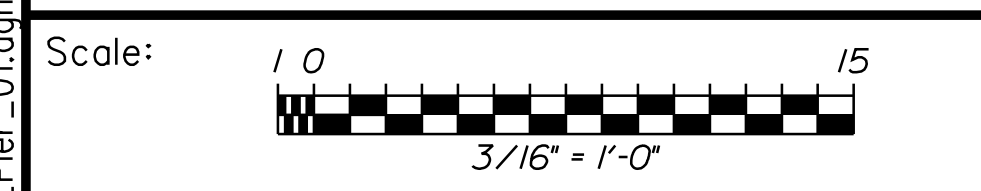
SHEET NUMBER: **48**  
**48 OF 117**




Date: 1/14/2022



Filename: ... \049\_Pier\_01.dgn



Designed by:



No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	GME	GME	10/29/21
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MEMORIAL HIGHWAY**

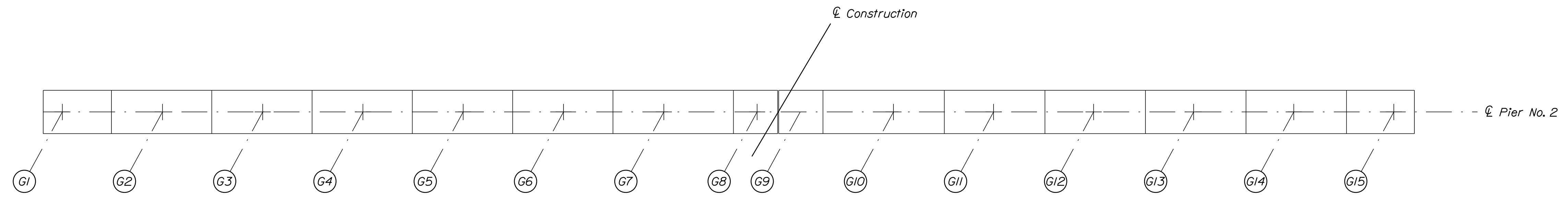
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 236 UNDERPASS  
AT MM 1.25 IN YORK, ME  
PIER NO. 1 REPAIRS

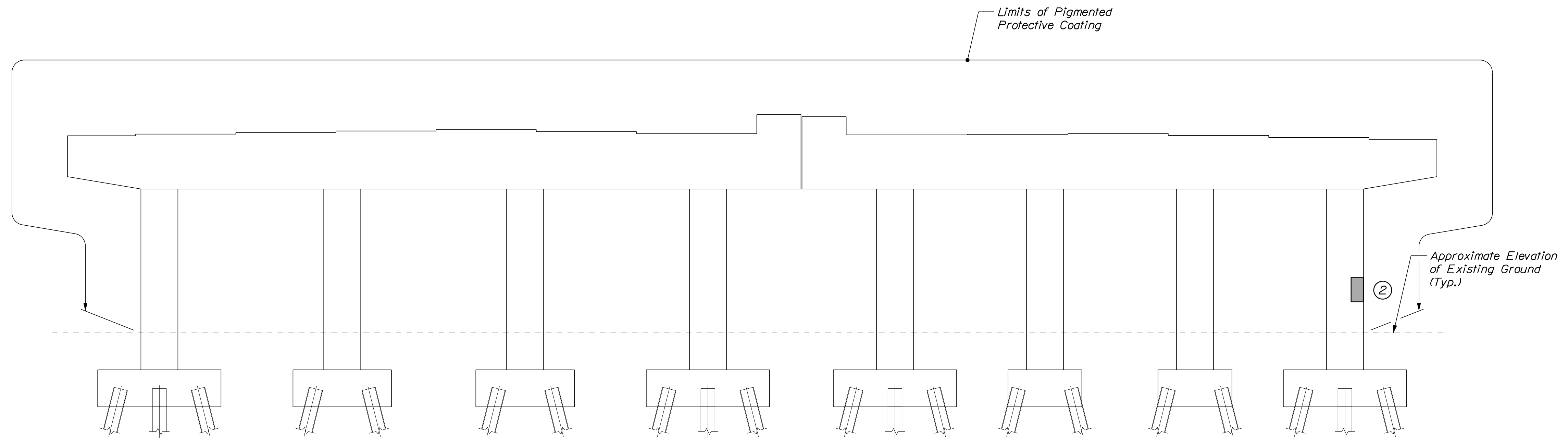
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 49  
49 OF 117

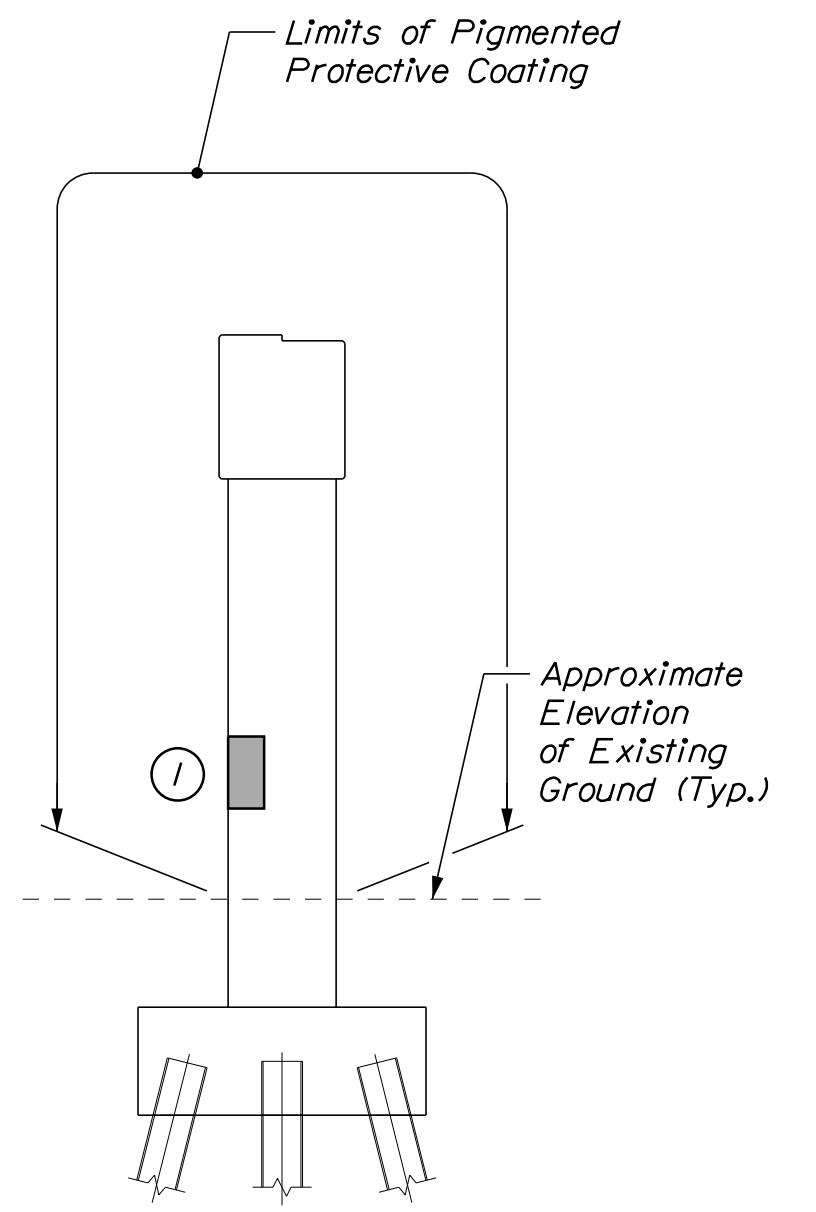
Date: 1/14/2022



**PLAN**  
Scale: 3/16" = 1'-0"



**EAST ELEVATION**  
Scale: 3/16" = 1'-0"



**END VIEW**  
Scale: 3/16" = 1'-0"

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Pier Repairs 5\*  
\* Includes 2 S.F. Additional Repair Quantity As A Contingency

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

**KEY**

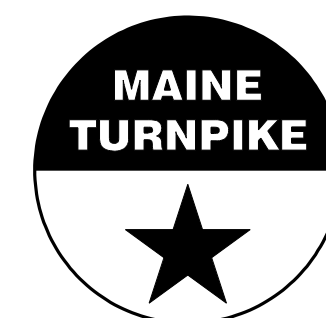
- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.04  
ROUTE 236 UNDERPASS  
AT MM 1.25 IN YORK, ME  
PIER NO. 2 REPAIRS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

VHB: 55345.00

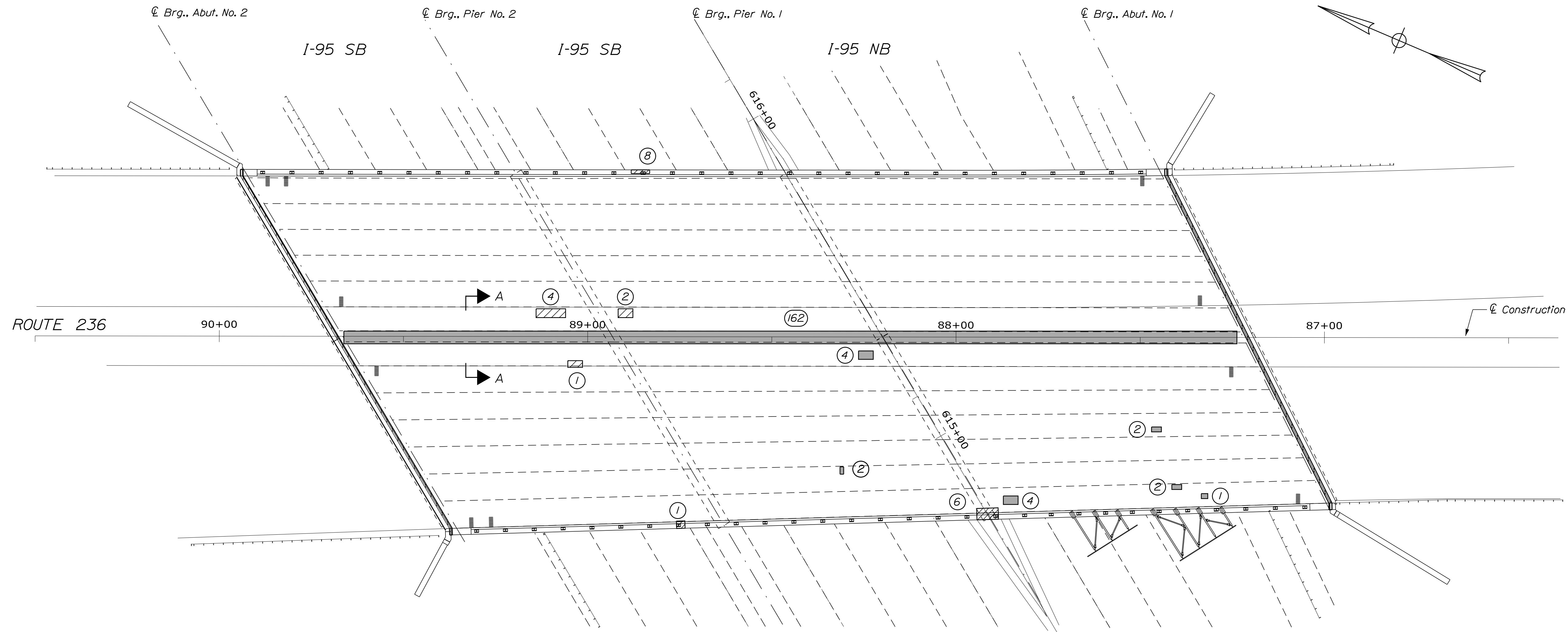
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CONTRACT: 2022.04

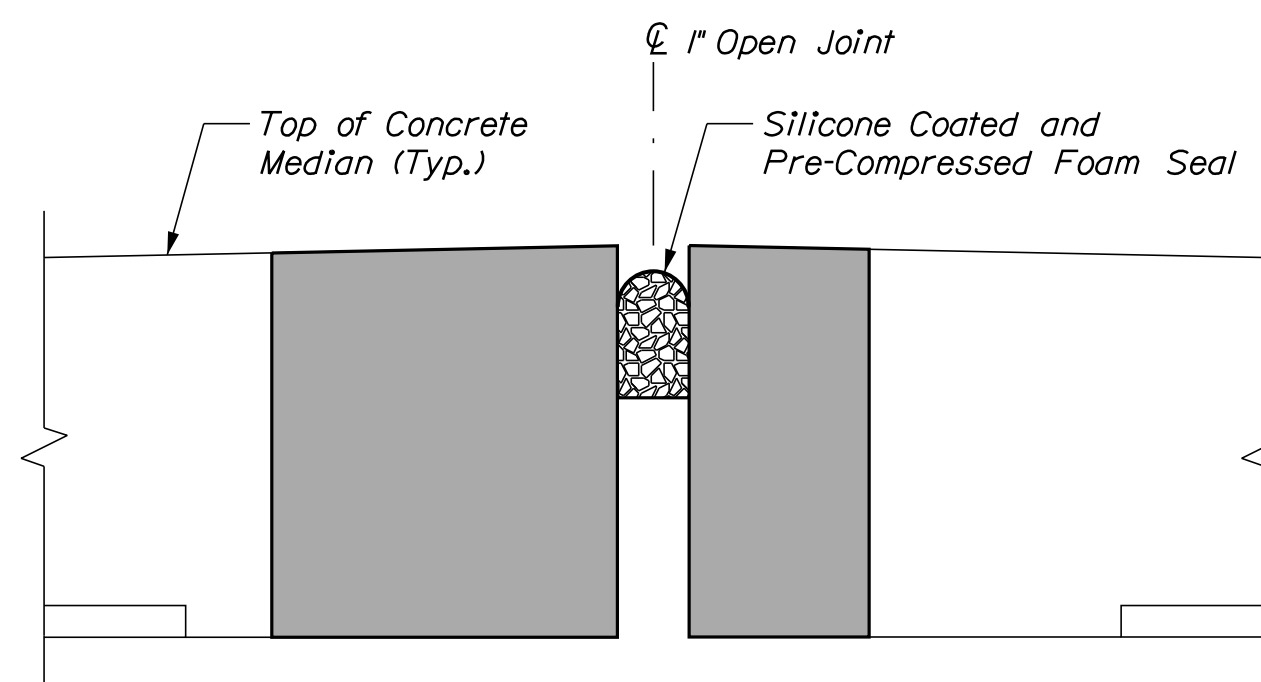
50 OF 117

Filename: ... \050\_Pier\_02.dwg

Date: 1/14/2022



**PLAN**  
Scale 1/16" = 1'-0"



**SECTION A-A**  
Not to Scale

**KEY**

- Limit of Concrete Removal
- Limit of Full Depth Concrete Deck Repair
- Square Footage of Repair

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Full Depth Repairs 180 \*  
 \* Includes 11 S.F. Additional Repair Quantity As A Contingency

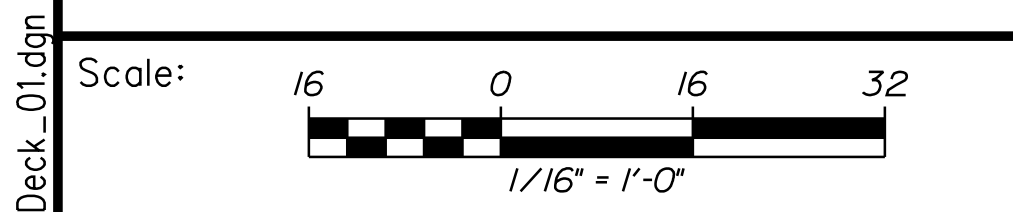
Concrete Removal and Steel Coating 50 \*\*  
 \*\* Includes 28 S.F. Additional Repair Quantity As A Contingency

**NOTE**

1. Contractor shall coat all exposed reinforcing steel after removing structural concrete at the fascias and median haunch. Work shall be incidental to Item 202.122, Removing Existing Structural Concrete.

**SHEET NOTE**

1. For Concrete and Crack Repair Notes and Details see Concrete Repair Typical Details Sheet.



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington			
By	Date	By	Date
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Drawn	DPD 10/29/21	In Charge of	TSB 10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

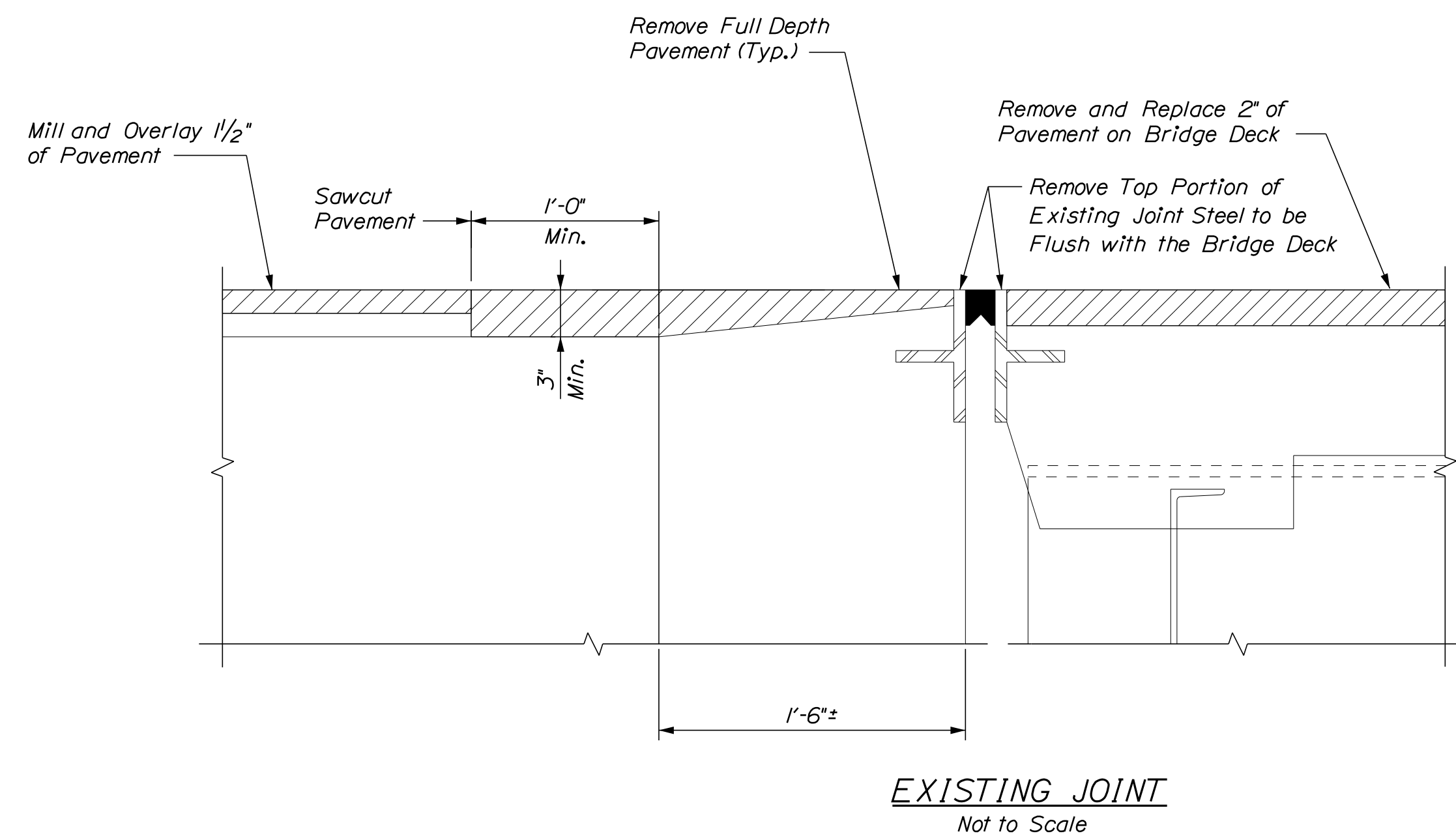
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 ROUTE 236 UNDERPASS  
 AT MM 1.25 IN YORK, ME  
 DECK UNDERSIDE REPAIRS

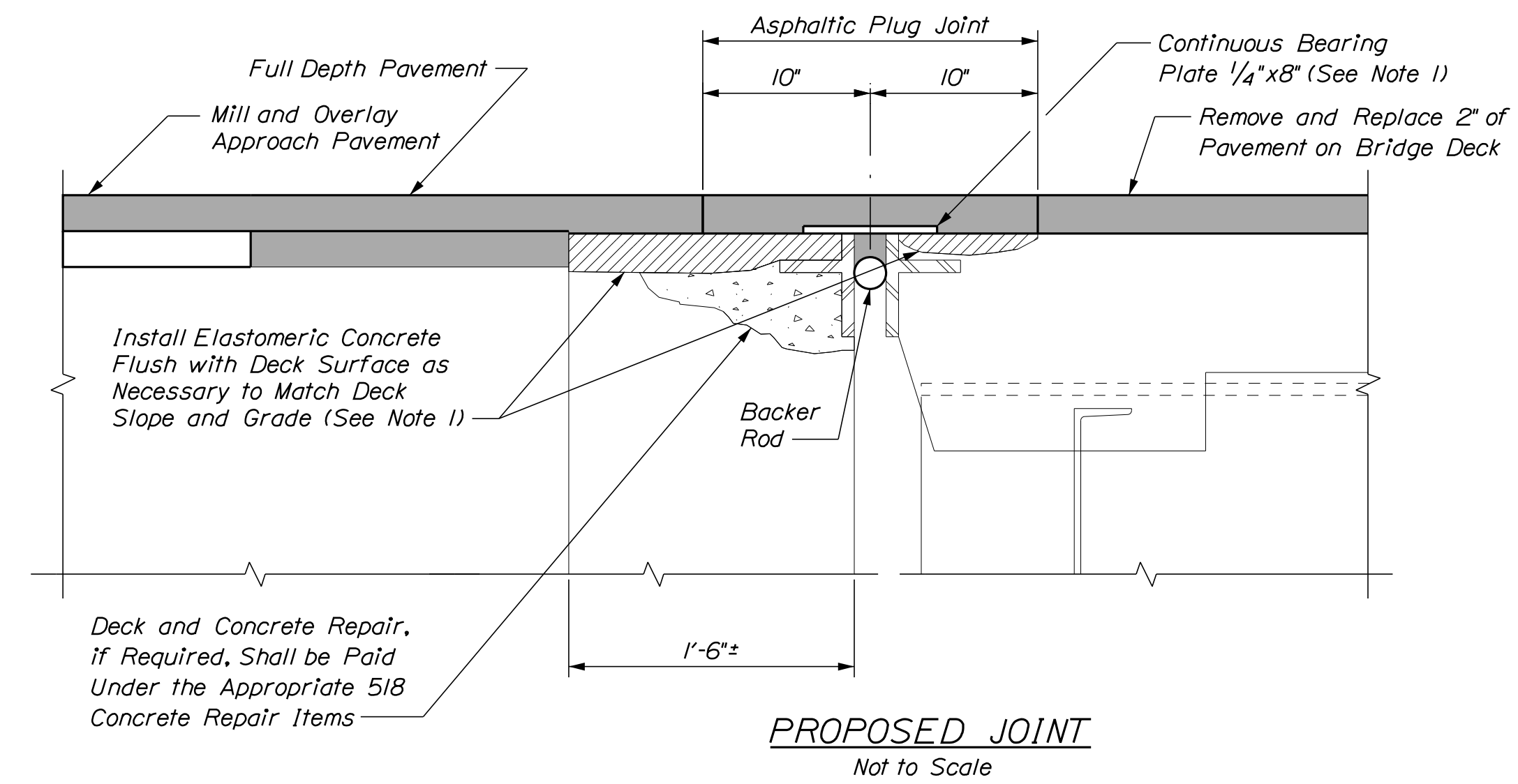
VHB: 55345.00
SHEET NUMBER: 51

CONTRACT: 2022.04
51 OF 117

Date: 1/14/2022



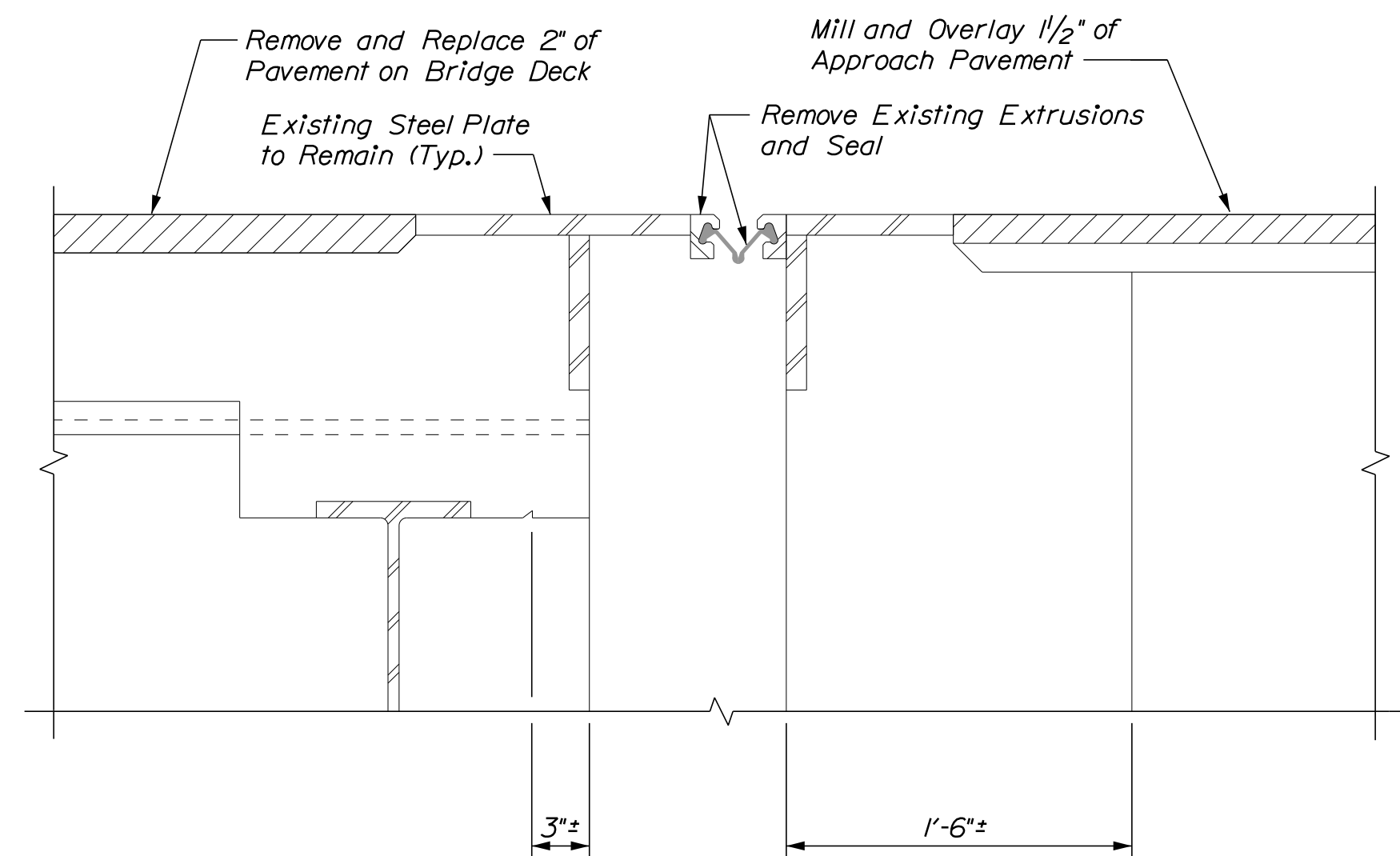
**EXISTING JOINT**  
Not to Scale



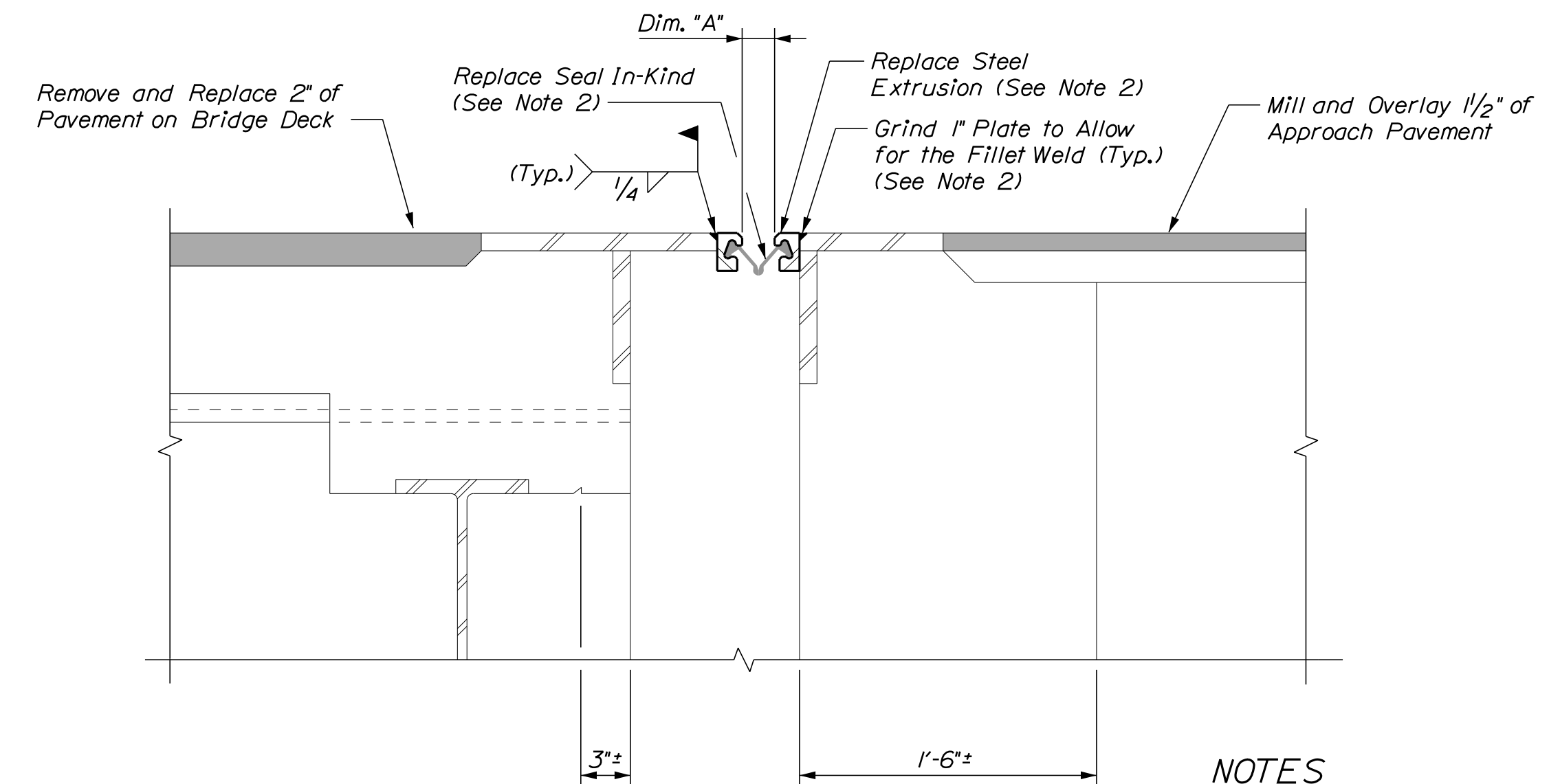
**PROPOSED JOINT**  
Not to Scale

**BRIDGE JOINT MODIFICATION**  
*(Abutment No. 1)*

AS-BUILT JOINT INSTALLATION TABLE FOR ABUTMENT NO. 2												
DIM. "A"	Temp 0°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
Opening	2 <sup>5</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>4</sub> "	2 <sup>9</sup> / <sub>16</sub> "	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>16</sub> "	2"	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>5</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>16</sub> "	



**EXISTING JOINT**  
Not to Scale



**PROPOSED JOINT**  
Not to Scale

**BRIDGE JOINT MODIFICATION**  
*(Abutment No. 2)*

**NOTES**

1. Elastomeric Concrete and Continuous Bearing Plate shall be incidental to Item 520.23, Asphaltic Plug Joint (Route 236).
2. Replace Steel Extrusions and Joint Seal with a similar system from the MaineDOT Qualified Products List - Bridge Strip Seal Joint Systems. This work shall be paid for under Item 520.50, Remove and Replace Glad Seal (RT 236).

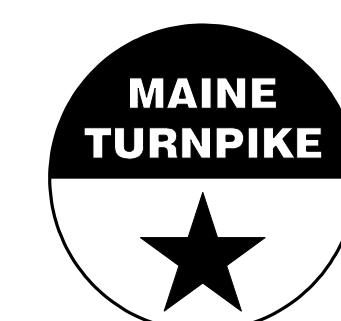
**SHEET NOTE**

1. See Miscellaneous Details sheet for Joint Detail at Curb for the Asphaltic Plug Joint treatment at the curb.

Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 236 UNDERPASS  
AT MM 1.25 IN YORK, ME  
BRIDGE JOINT MODIFICATIONS

VHB: 55345.00

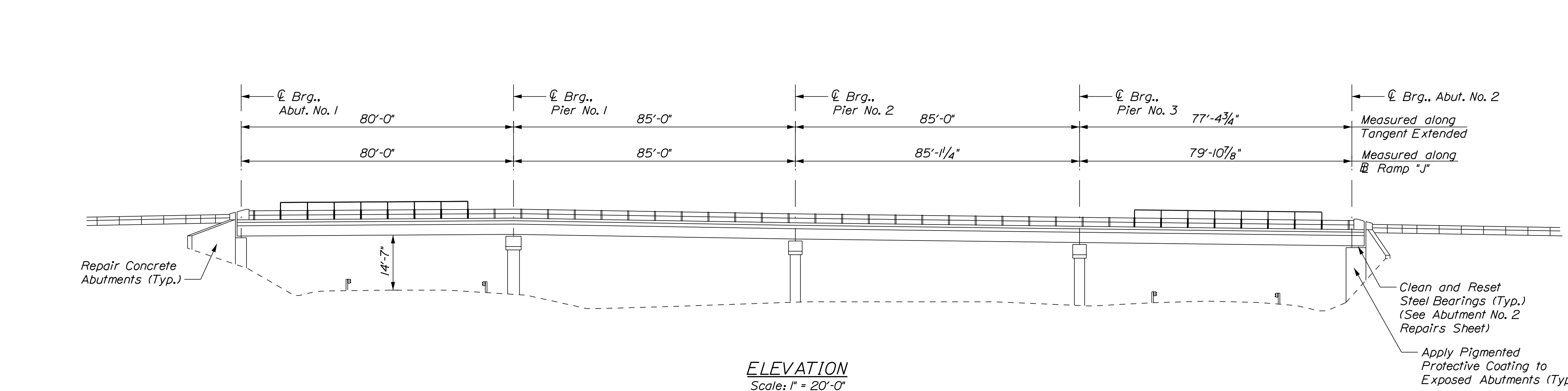
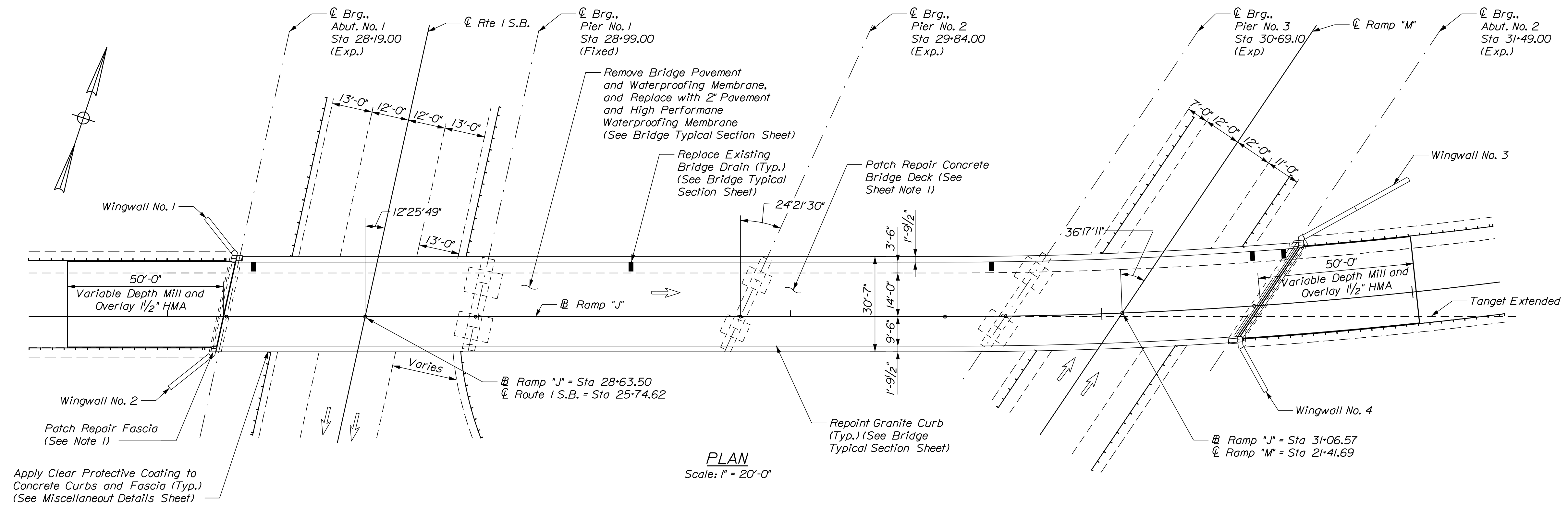
CONTRACT: 2022.04

SHEET NUMBER: 52

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Filename: ... \052\_joint.dgn

Date: 1/14/2022



**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Fascia Surface Repairs	12 *
* Includes 2 S.F. Additional Repair Quantity As A Contingency	
Partial Depth Concrete Deck Repairs	270 **
** Assumes 3% of the Deck will require Partial Depth Concrete Repairs	

- KEY**
- Limit of Crack Repair
  - Limit of Surface Patch Repair
  - Linear Feet of Crack Repair
  - Square Footage of Repair

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

Scale: 1" = 20'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
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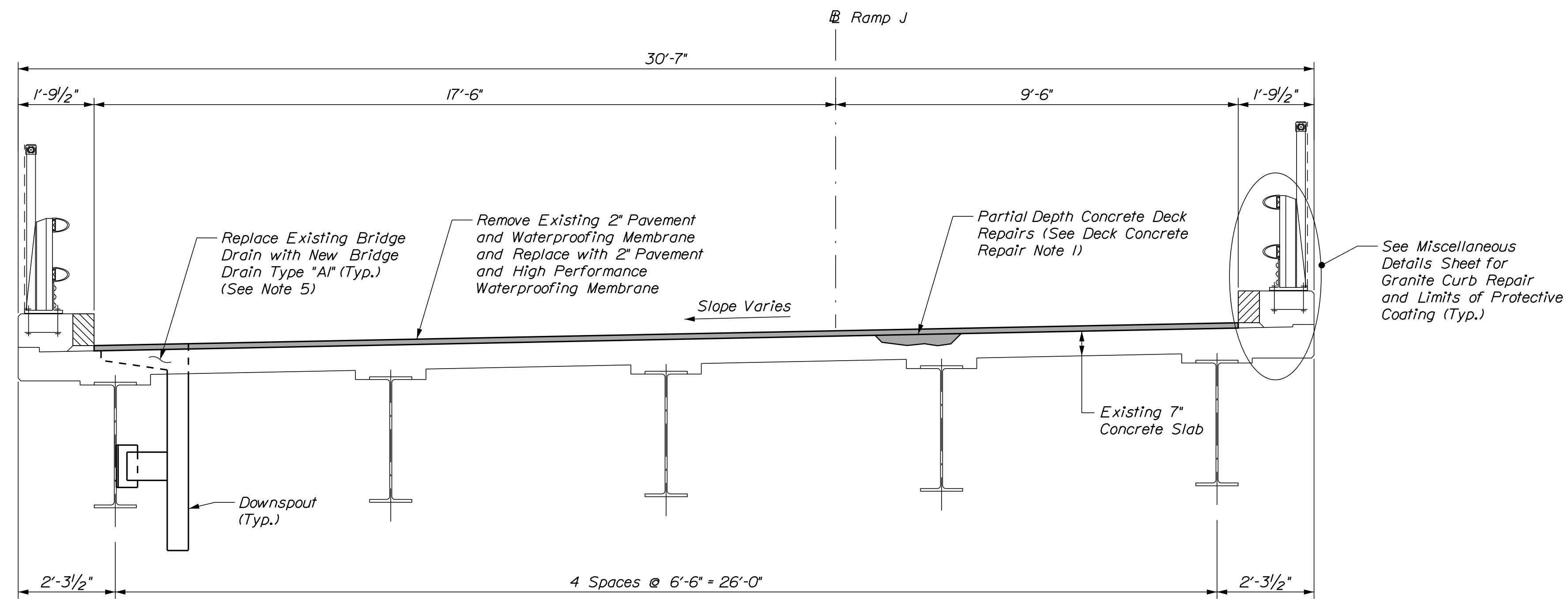
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
RAMP "J" UNDERPASS  
AT MM 1.50 IN YORK, ME  
GENERAL PLAN AND ELEVATION

VHB: 55345.00  
SHEET NUMBER: 53  
CONTRACT: 2022.04  
53 OF 117

Date: 1/14/2022

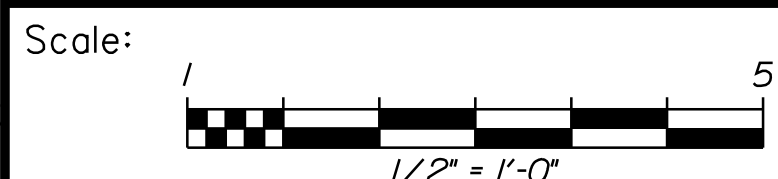


SUPERSTRUCTURE TYPICAL SECTION

DECK CONCRETE REPAIR NOTES

1. Prior to the start of deck concrete repairs, the Resident and the Contractor shall sound all deck concrete using a chain drag or other method approved by the Resident to determine the required repair limits. All costs for sounding the existing deck concrete shall be incidental to Item 518.80 Partial Depth Concrete Deck Repairs.
2. Sawcut 1" deep along all limits of removal.
3. 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 removals.
4. Prepare and patch repair deteriorated areas. Install new reinforcing steel, as required. See Supplemental Specification 518.
5. Replacing the bridge drains shall be paid for under Item 502.702, Replace Bridge Drain (Type A1).

Filename: ... \054... BTyp\_01.dgn

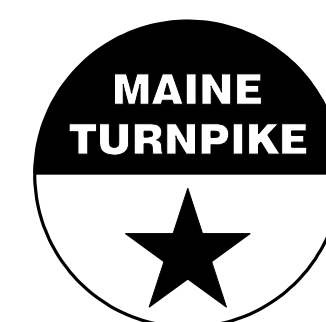


No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 RAMP "J" UNDERPASS  
 AT MM 1.50 IN YORK, ME  
 BRIDGE TYPICAL SECTION

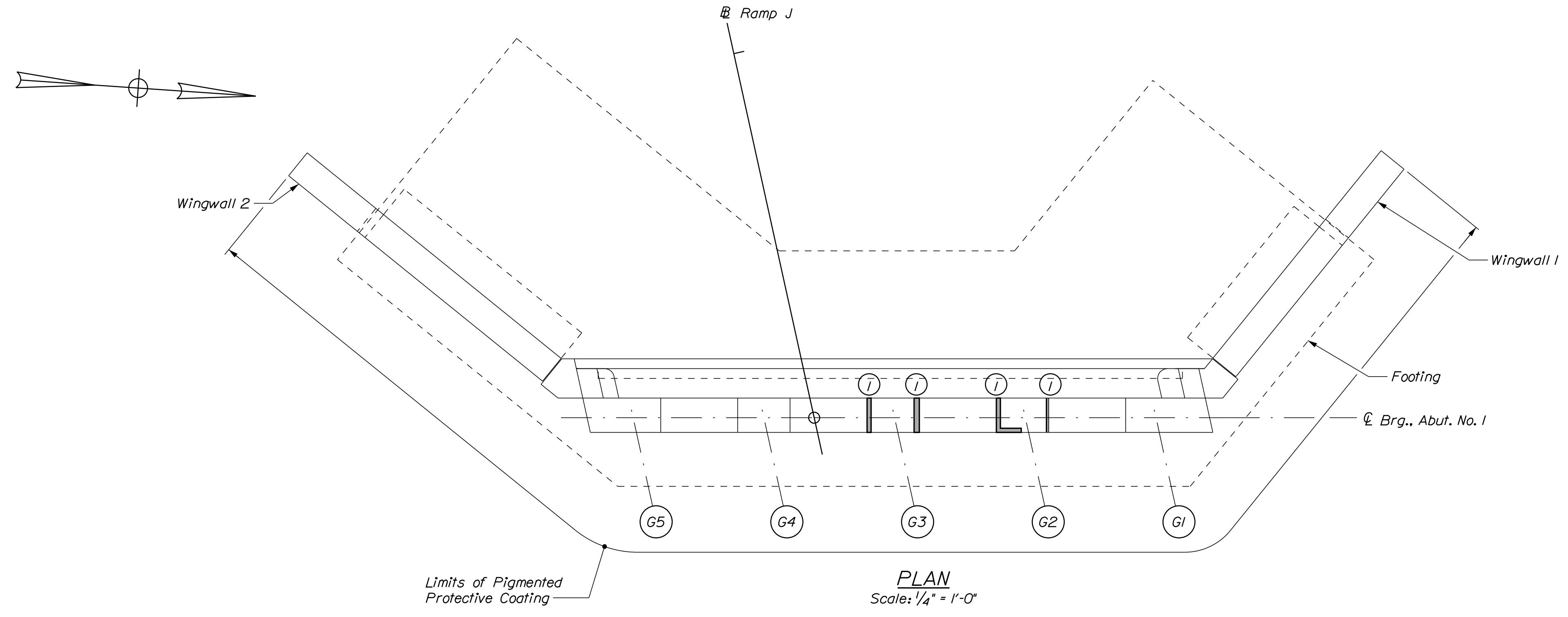
VHB: 55345.00

CONTRACT: 2022.04

SHEET NUMBER: 54

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Date: 1/14/2022



**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

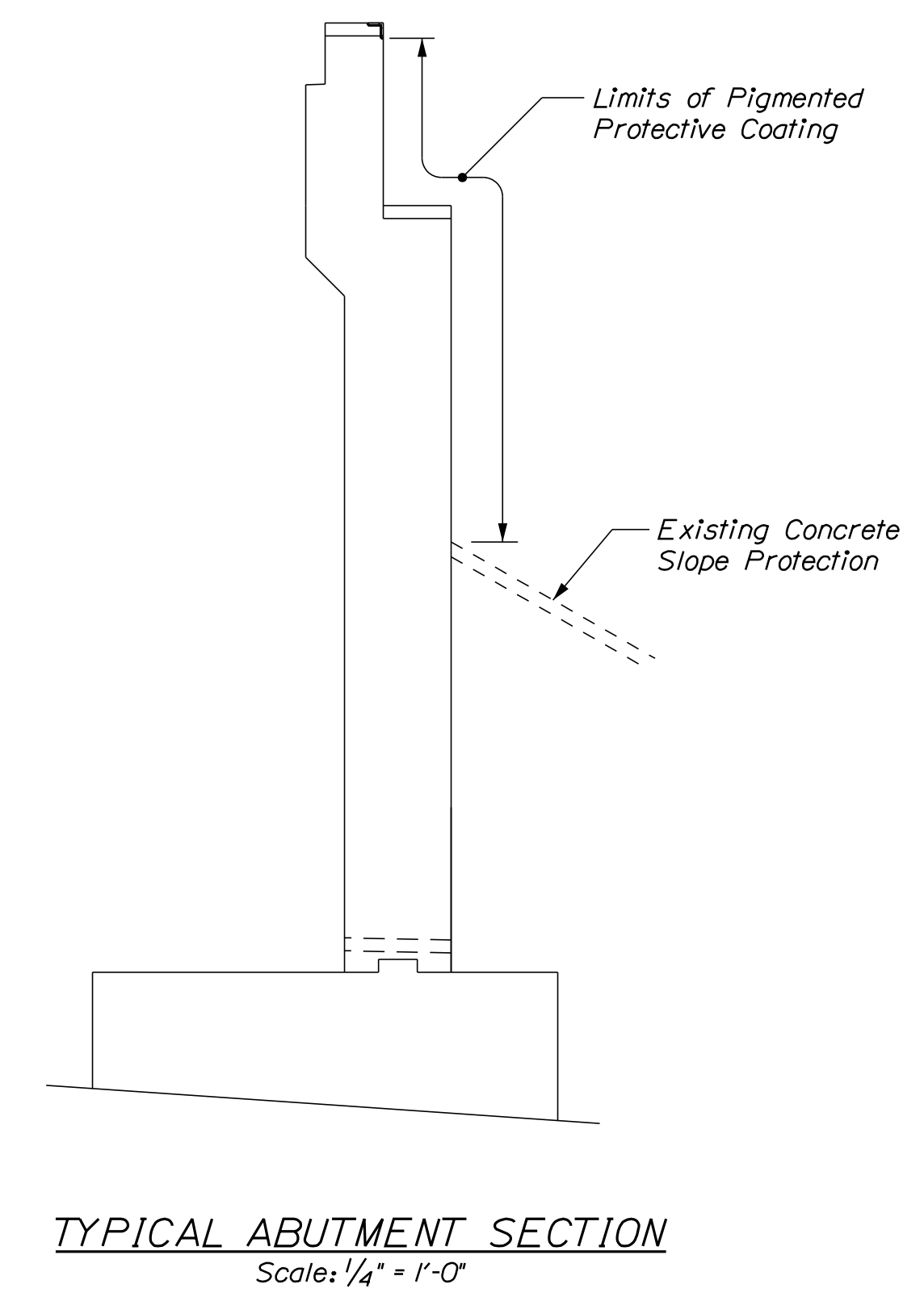
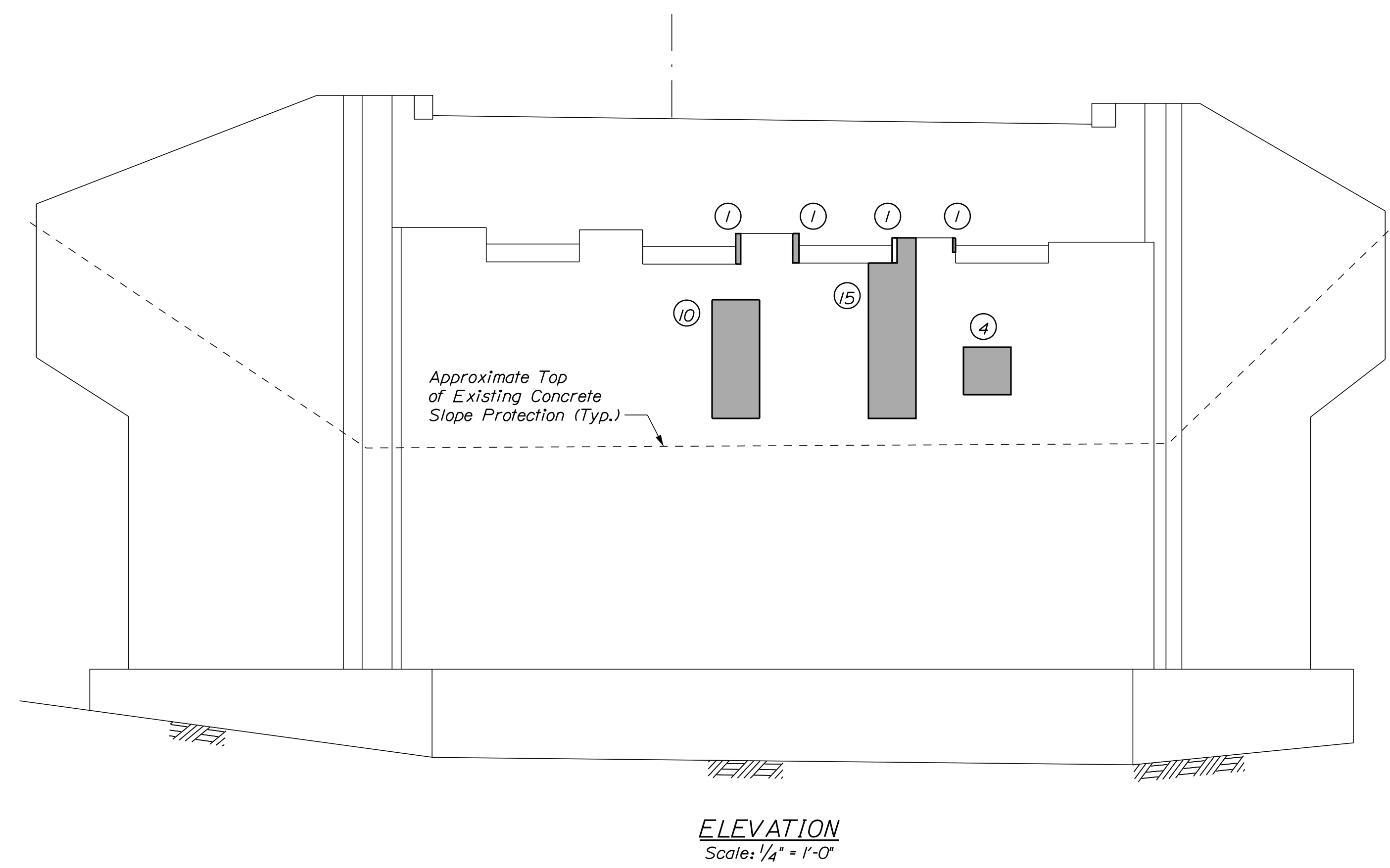
Surface Abutment Repairs 45 \*  
\* Includes 8 S.F. Additional Repair Quantity As A Contingency

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.



Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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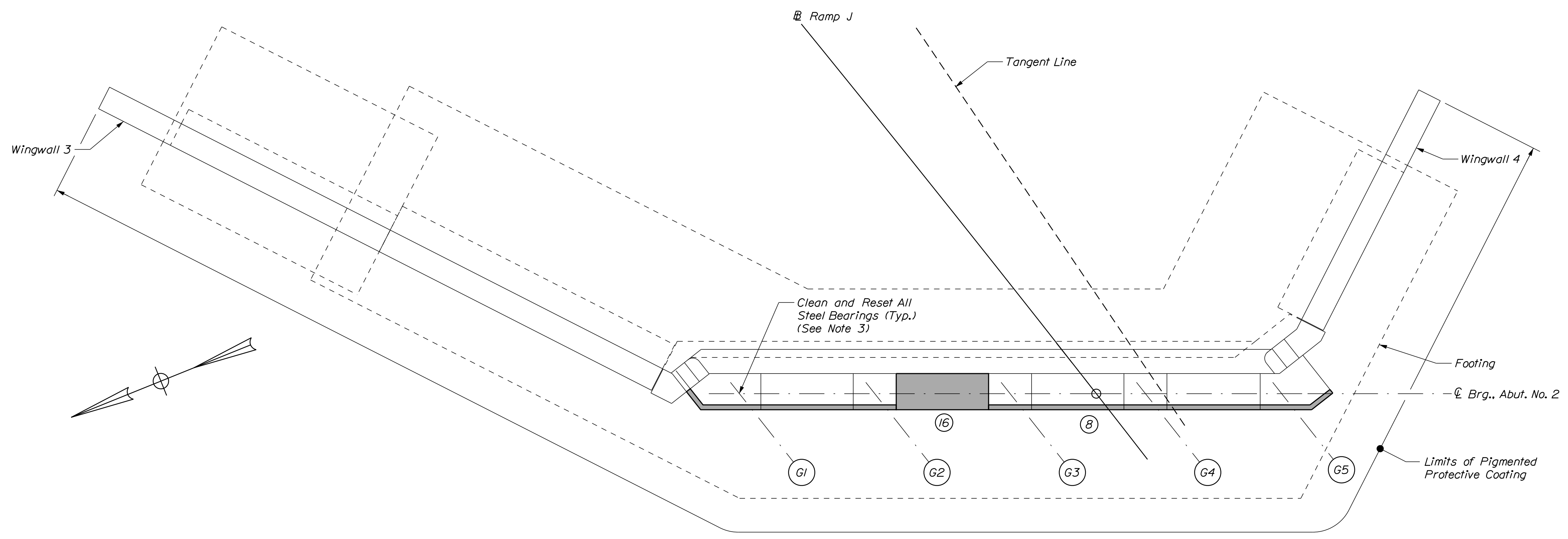
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
RAMP "J" UNDERPASS  
AT MM 1.50 IN YORK, ME  
ABUTMENT NO. 1 REPAIRS

VHB: 55345.00      SHEET NUMBER: 55  
CONTRACT: 2022.04      55 OF 117

Date: 1/14/2022



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

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

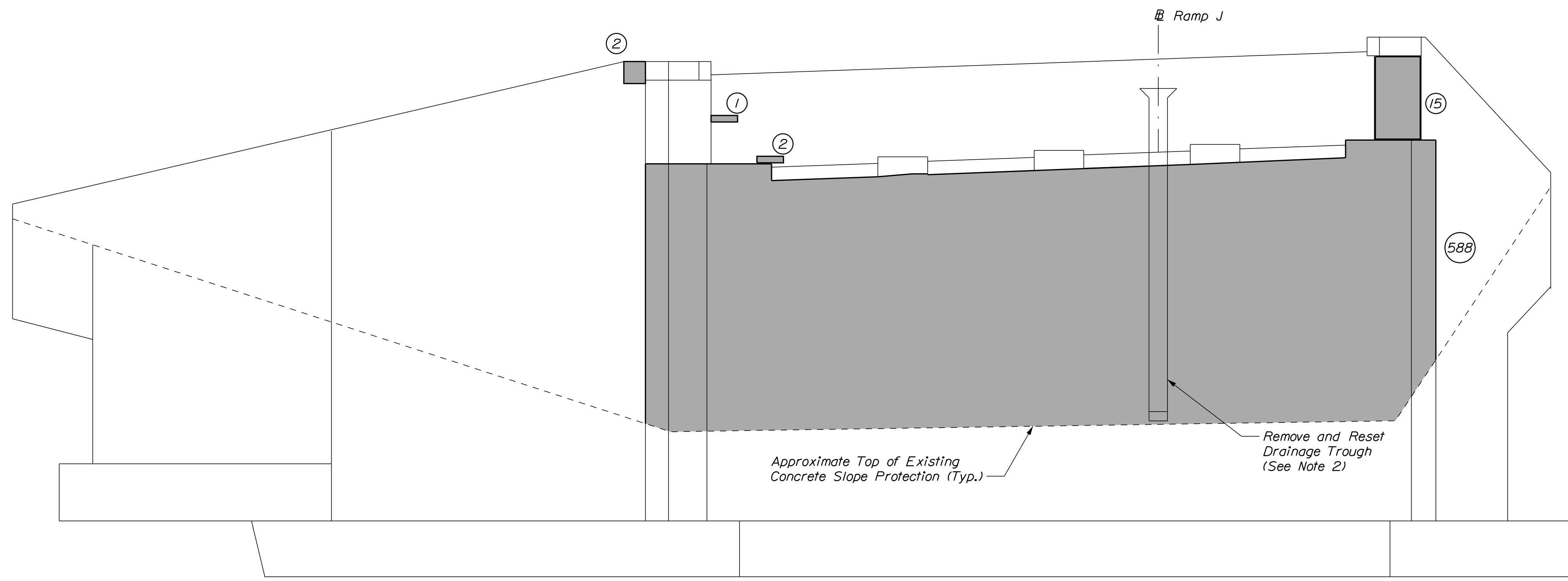
Surface Abutment Repairs 635\*  
\* Includes 3 S.F. Additional Repair Quantity As A Contingency

**KEY**

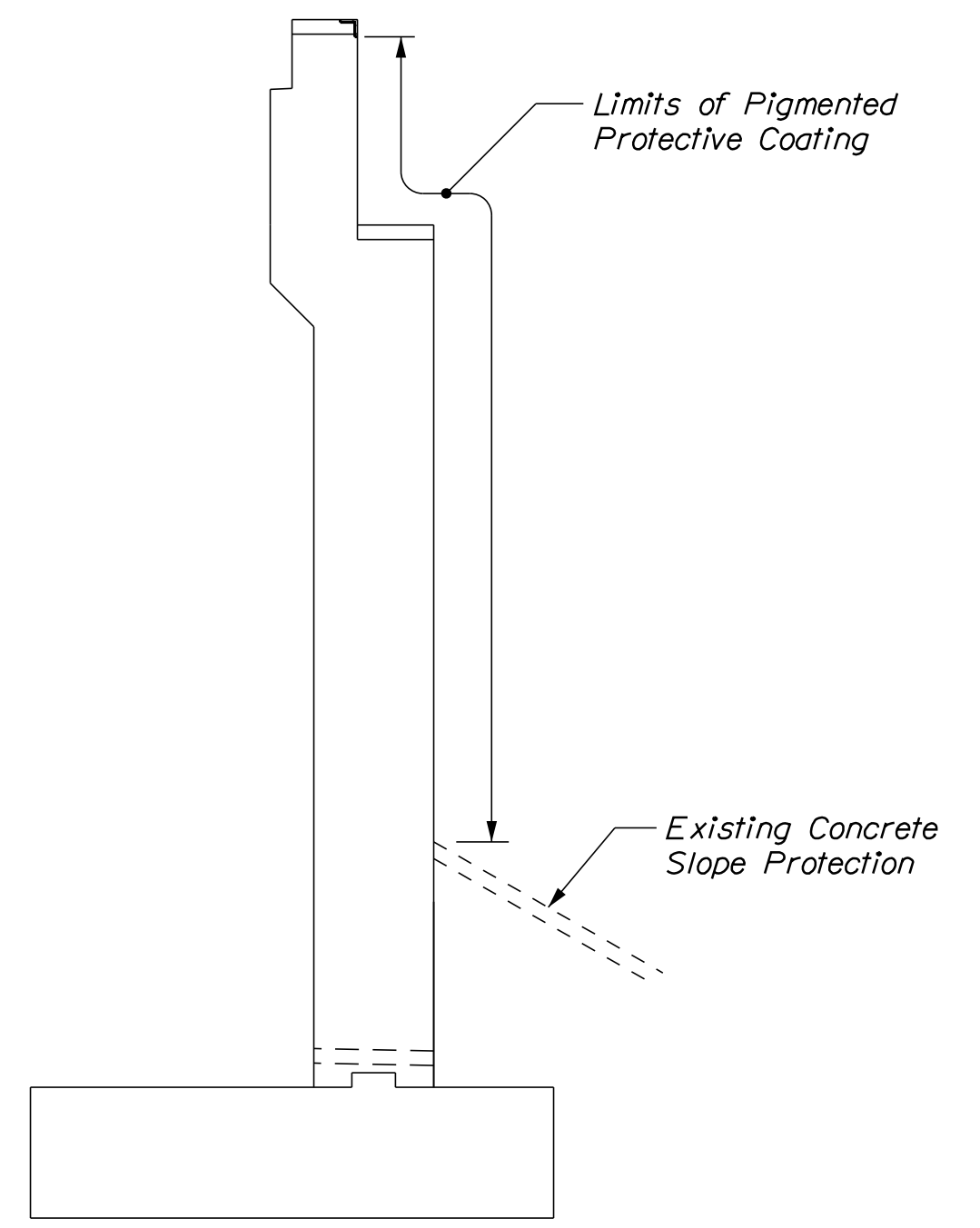
- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

**SHEET NOTES**

1. For Concrete Repair Notes and Details See Concrete Repair Typical Details Sheet.
2. Payment for removing and resetting the drainage trough shall be incidental to the concrete repairs.
3. All labor, equipment, and materials necessary to jack, clean, and reset the bearings shall be paid for under Item 524.7212, Jacking Existing Superstructure (Ramp J), and Item 523.1201, Reset Steel Bearings, respectively. See Miscellaneous Details sheet for information for resetting the bearings.



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



**ABUTMENT TYPICAL SECTION**  
Scale: 1/4" = 1'-0"

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

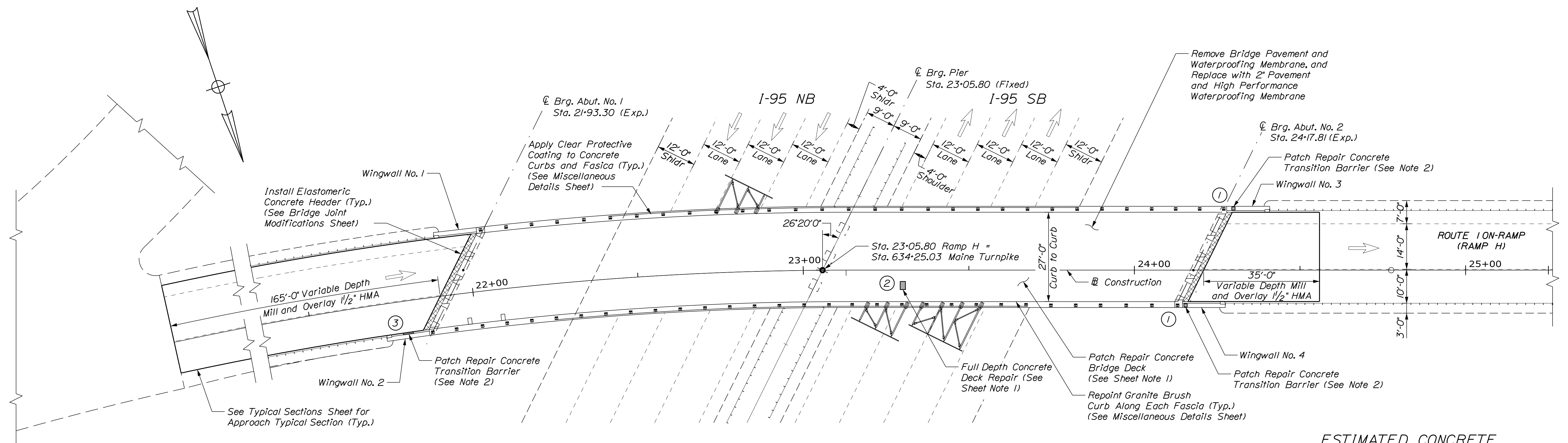
MTA PROJECT NO. 2022.04  
RAMP "J" UNDERPASS  
AT MM 1.50 IN YORK, ME  
ABUTMENT NO. 2 REPAIRS

VHB: 55345.00 SHEET NUMBER: 56  
CONTRACT: 2022.04 56 OF 117

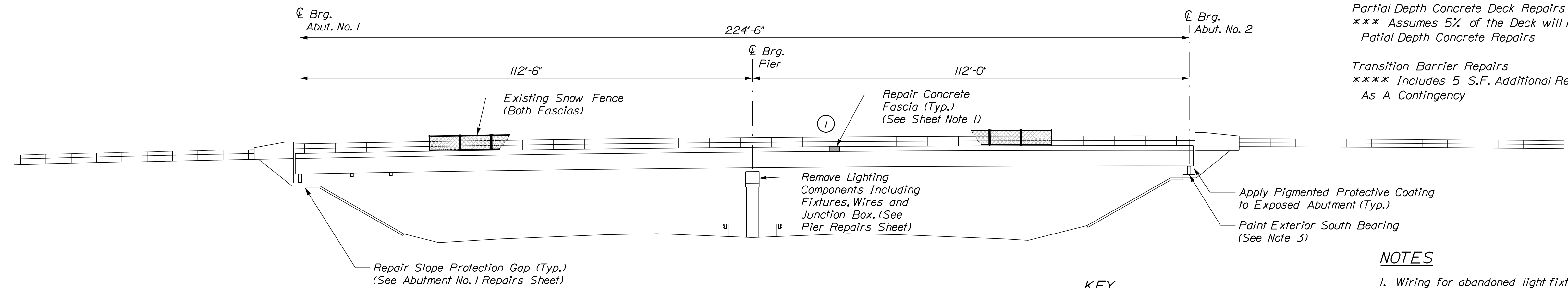
Filename: ... \056\_Abut\_02.dgn



Date: 1/14/2022



**PLAN**  
Scale 1/16" = 1'-0"



**ELEVATION**  
(Bridge Mounted Signs Not Shown for Clarity)  
Scale 1/16" = 1'-0"

- KEY**
- Limit of Crack Repair
  - Limit of Surface Patch Repair
  - Linear Feet of Crack Repair
  - Square Footage of Repair

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Full Depth Concrete Deck Repair	10*
* Includes 8 S.F. Additional Repair Quantity As A Contingency	
Fascia Surface Repairs	10**
** Includes 9 S.F. Additional Repair Quantity As A Contingency	
Partial Depth Concrete Deck Repairs	305***
*** Assumes 5% of the Deck will require Partial Depth Concrete Repairs	
Transition Barrier Repairs	10****
**** Includes 5 S.F. Additional Repair Quantity As A Contingency	

- NOTES**
- Wiring for abandoned light fixtures is energized. The Contractor shall deenergize the wires prior to removal.
  - Transition barrier concrete repairs shall be paid for under Item 518.10, Abutment Repairs.
  - All labor, equipment, and materials necessary to clean and paint the bearing shall be paid for under Item 506.14, Field Painting of Existing Structural Steel (Ramp H).

**SHEET NOTE**

- For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

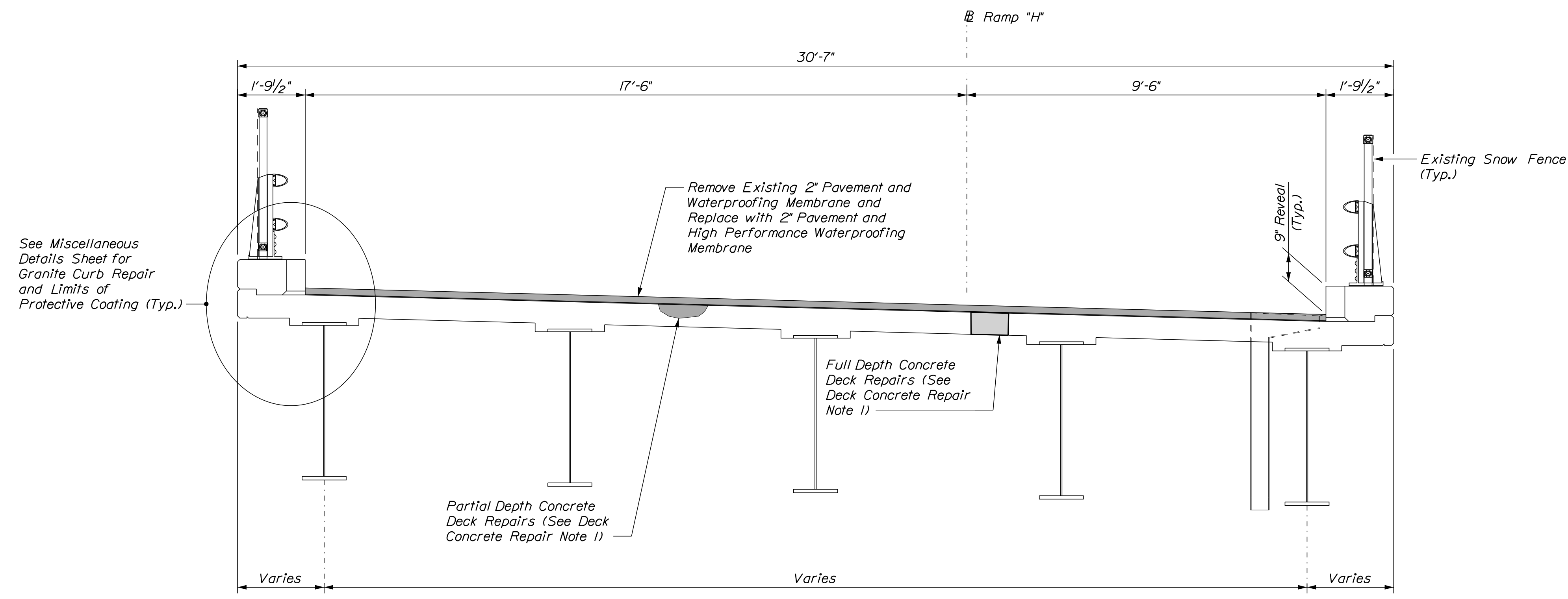
MTA PROJECT NO. 2022.04  
ROUTE 1 (RAMP H) UNDERPASS  
AT MM 1.60 IN YORK, ME  
GENERAL PLAN AND ELEVATION

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **57**  
57 OF 117

Filename: ...057\_plan\_02.dgn

Date: 1/14/2022

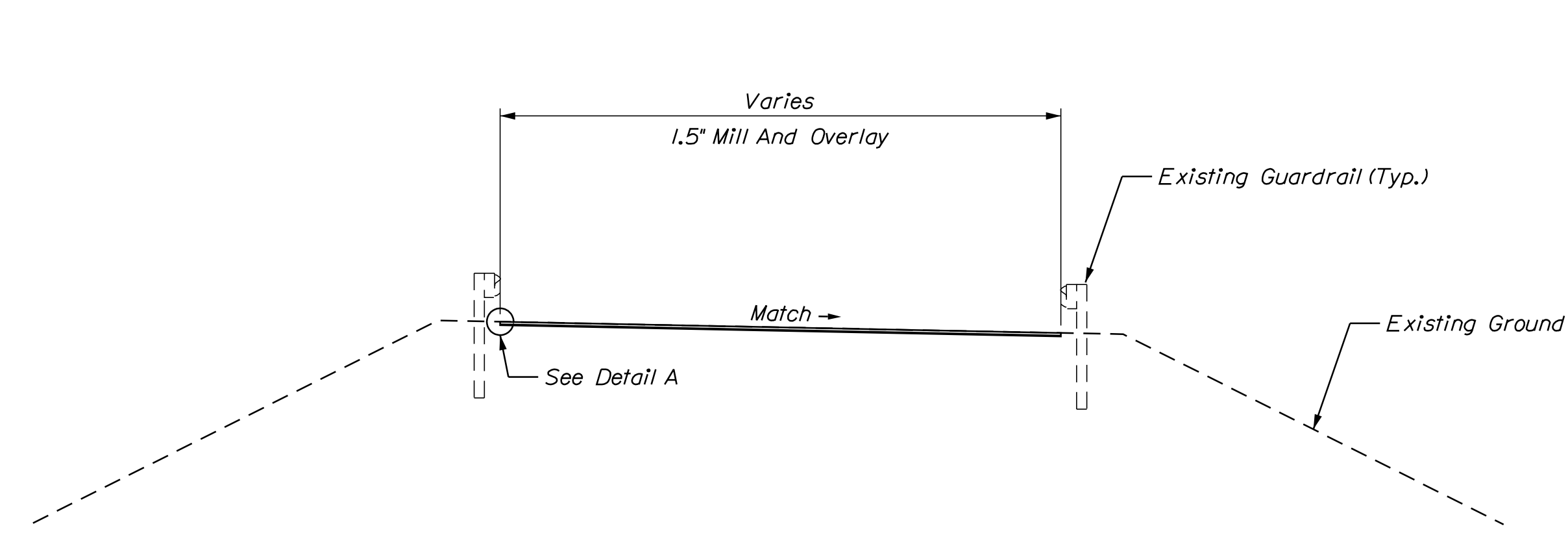


**SUPERSTRUCTURE TYPICAL SECTION**  
Scale: 1/2" = 1'-0"

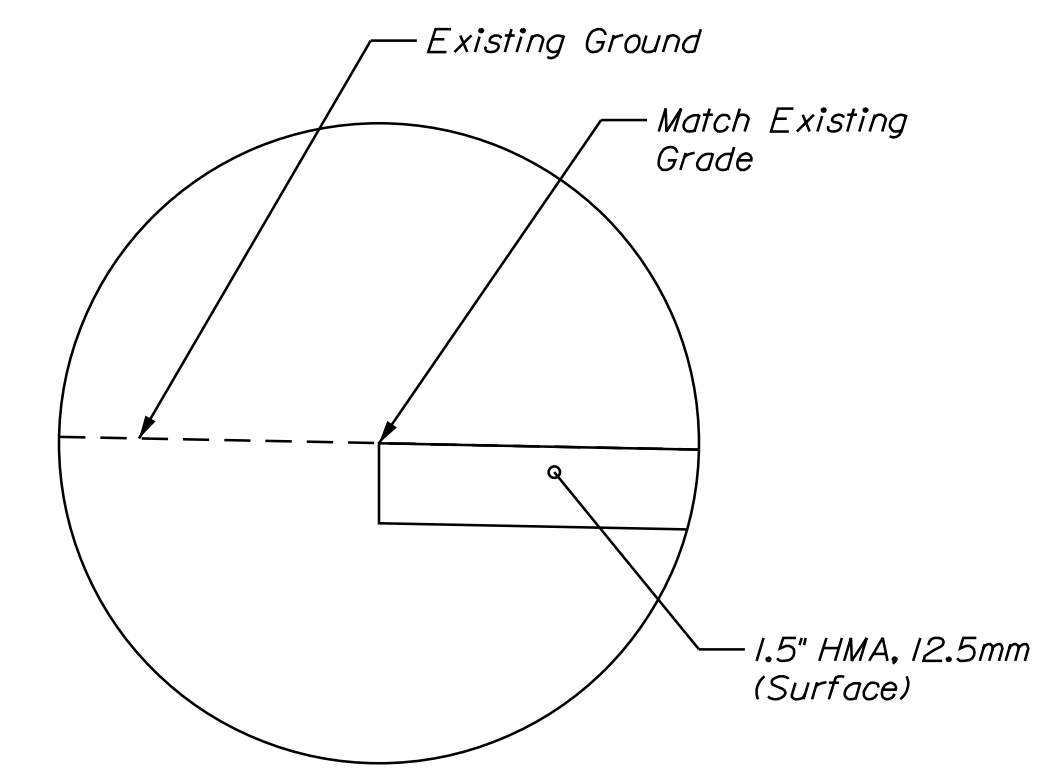
- DECK CONCRETE REPAIR NOTES**
1. Prior to the start of deck concrete repairs, the Resident and the Contractor shall sound all deck concrete using a chain drag or other method approved by the Resident to determine the required repair limits. All costs for sounding the existing deck concrete shall be incidental to Item 518.80, Partial Depth Concrete Deck Repairs.
  2. Sawcut 1" deep along all limits of removal.
  3. 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 removals.
  4. Prepare and patch repair deteriorated areas. Install new reinforcing steel, as required. See Supplemental Specification 518.

**SHEET NOTE**

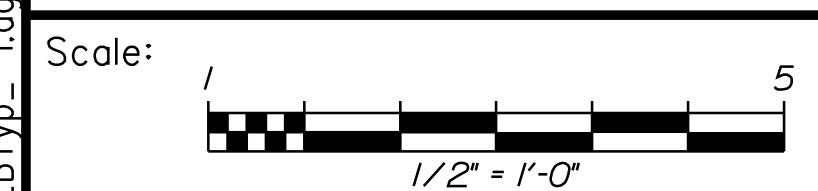
1. For Concrete Repair Notes and Details see Concrete Repair Typical Sections Sheet.



**MILL AND OVERLAY TYPICAL SECTION**  
Not to Scale




**DETAIL A**  
Not to Scale



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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



**THE GOLD STAR MEMORIAL HIGHWAY**

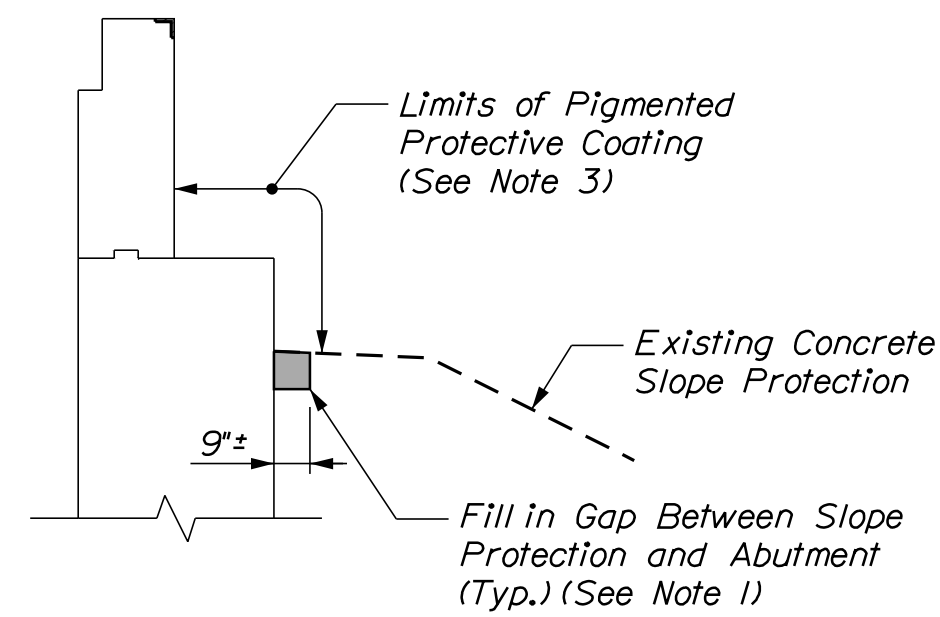
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 1 (RAMP H) UNDERPASS  
AT MM 1.60 IN YORK, ME  
TYPICAL SECTIONS

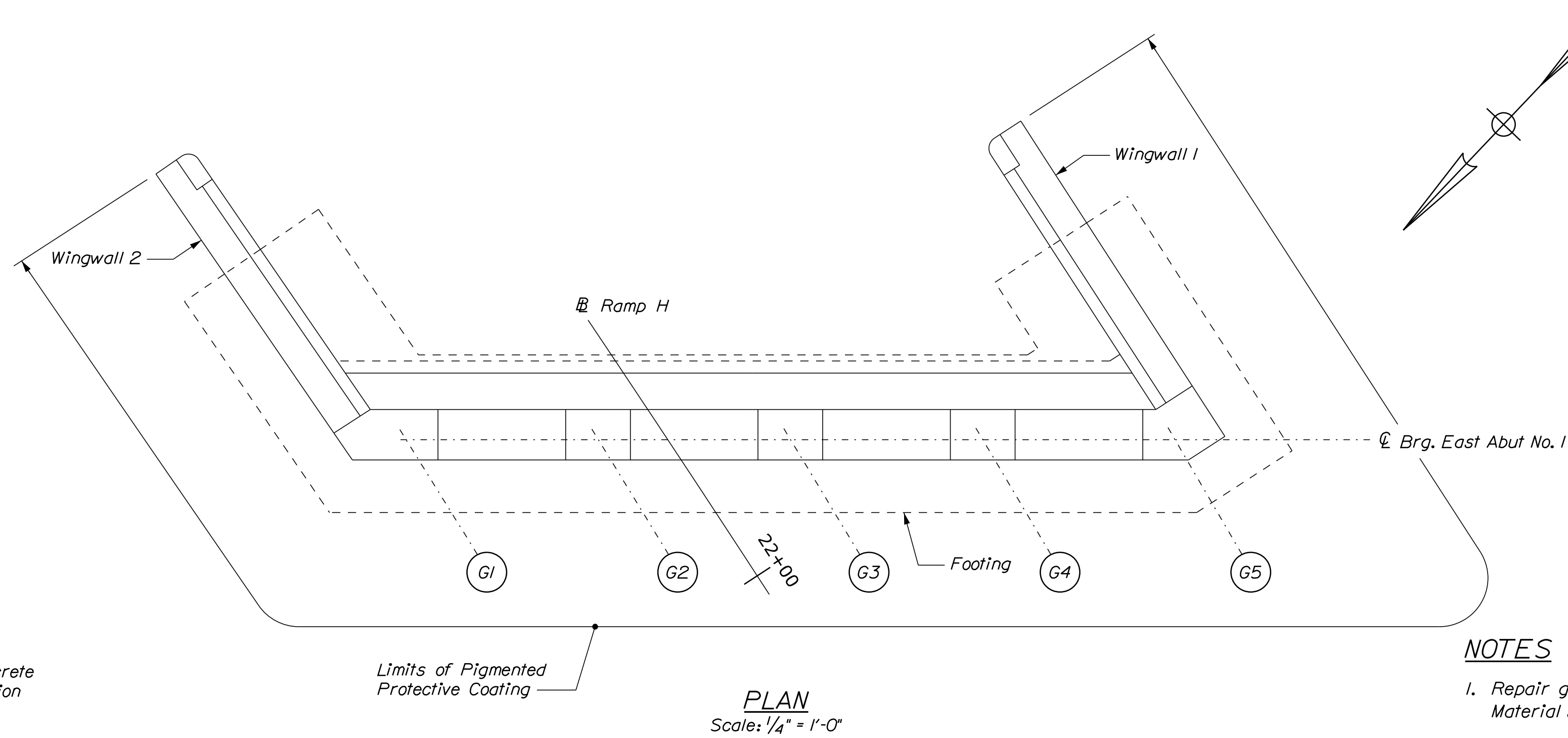
VHB: 55345.00  
SHEET NUMBER: **58**  
CONTRACT: 2022.04  
**58 OF 117**

Filename: ...058\_BI Typ\_1.dgn

Date: 1/14/2022



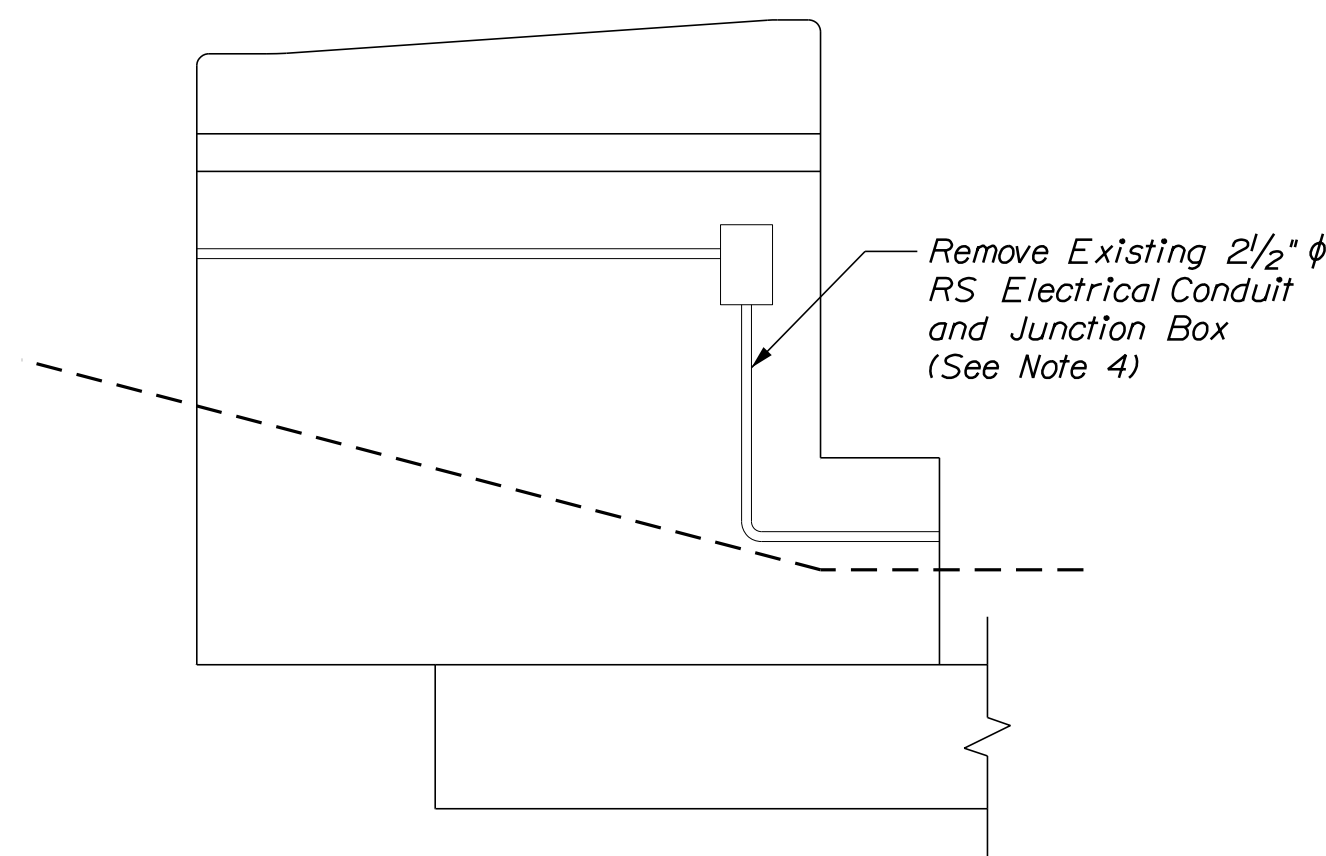
**TYPICAL ABUTMENT SECTION**  
Not to Scale



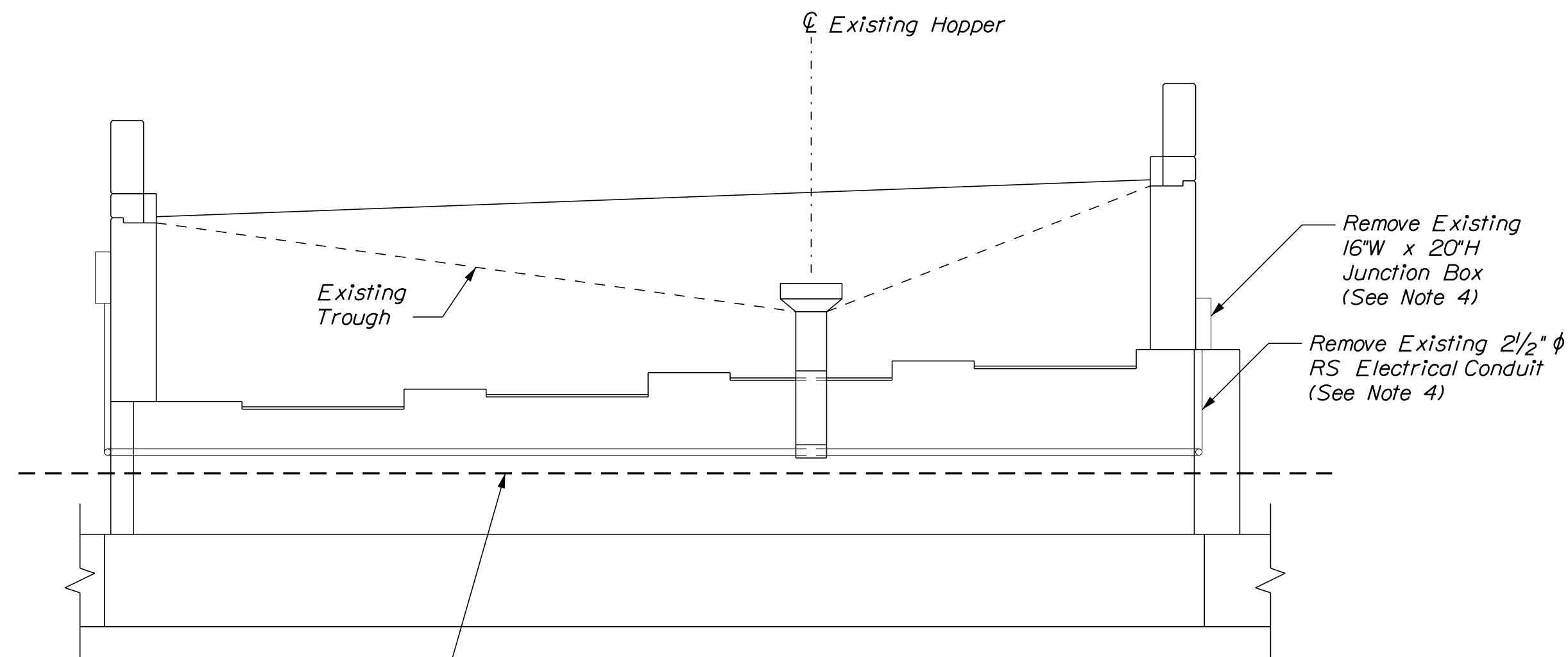
**PLAN**  
Scale: 1/4" = 1'-0"

**NOTES**

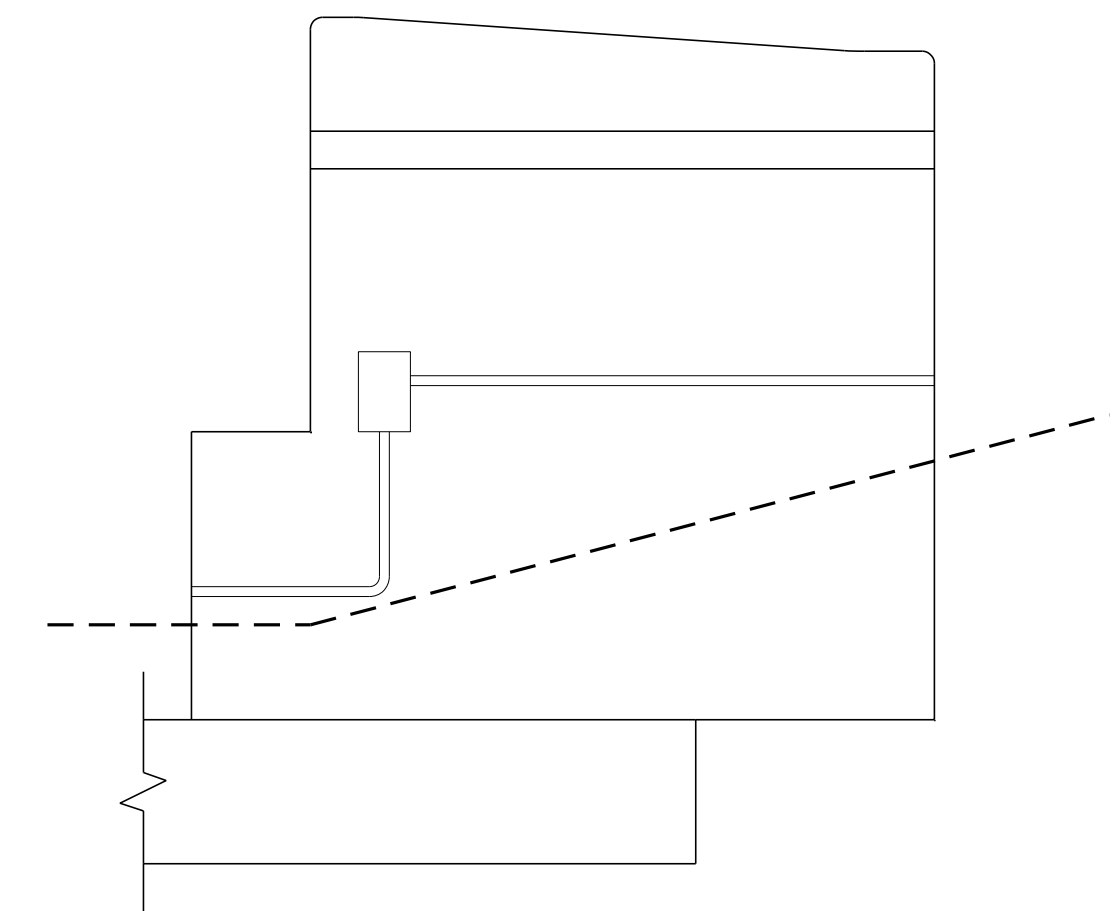
1. Repair gap between slope protection and abutment as directed by the Resident. Material shall be in accordance with Supplemental Specification 518.
2. The Contractor shall flush clean existing trough as directed by the Resident. This work shall be incidental to the related contract items.
3. The Contractor shall remove the existing protective coating prior to applying new coating. Payment for the removal of the existing coating shall be incidental to Item 515.201 Pigmented Protective Coating for Concrete Surfaces.
4. Removal of the existing junction boxes and electrical conduit shall be paid for under Item 634.1612 Removal of Bridge and Highway Lighting Including Wire.
5. Wiring for abandoned light fixtures is energized. The Contractor shall deenergize the wires prior to removal. Deenergizing of the existing wires shall be incidental to Item 634.1612 Removal of Bridge and Highway Lighting Including Wire.



**ELEVATION WINGWALL 2**  
Scale: 1/4" = 1'-0"



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




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

Filename: ...059\_Abutment\_01.dgn

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

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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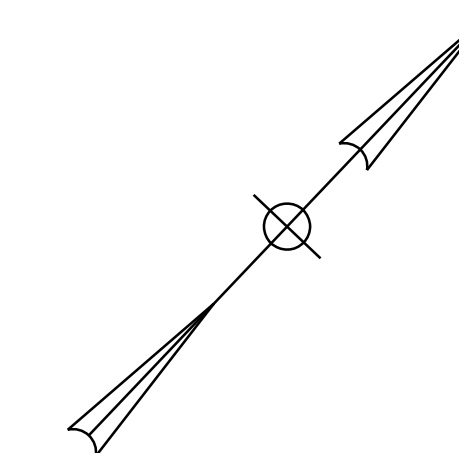
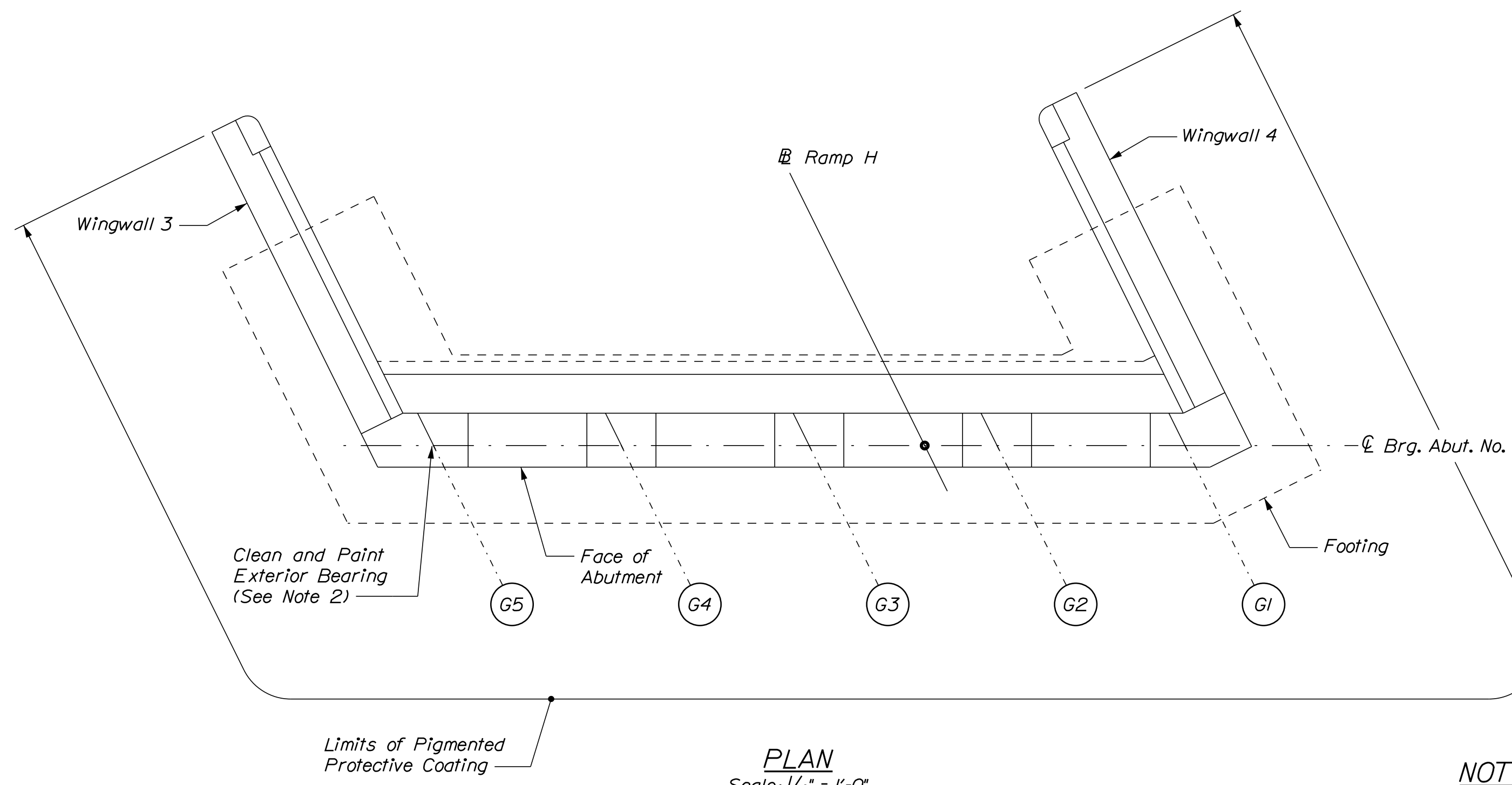
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 1 (RAMP H) UNDERPASS  
AT MM 1.60 IN YORK, ME  
ABUTMENT NO. 1 REPAIRS

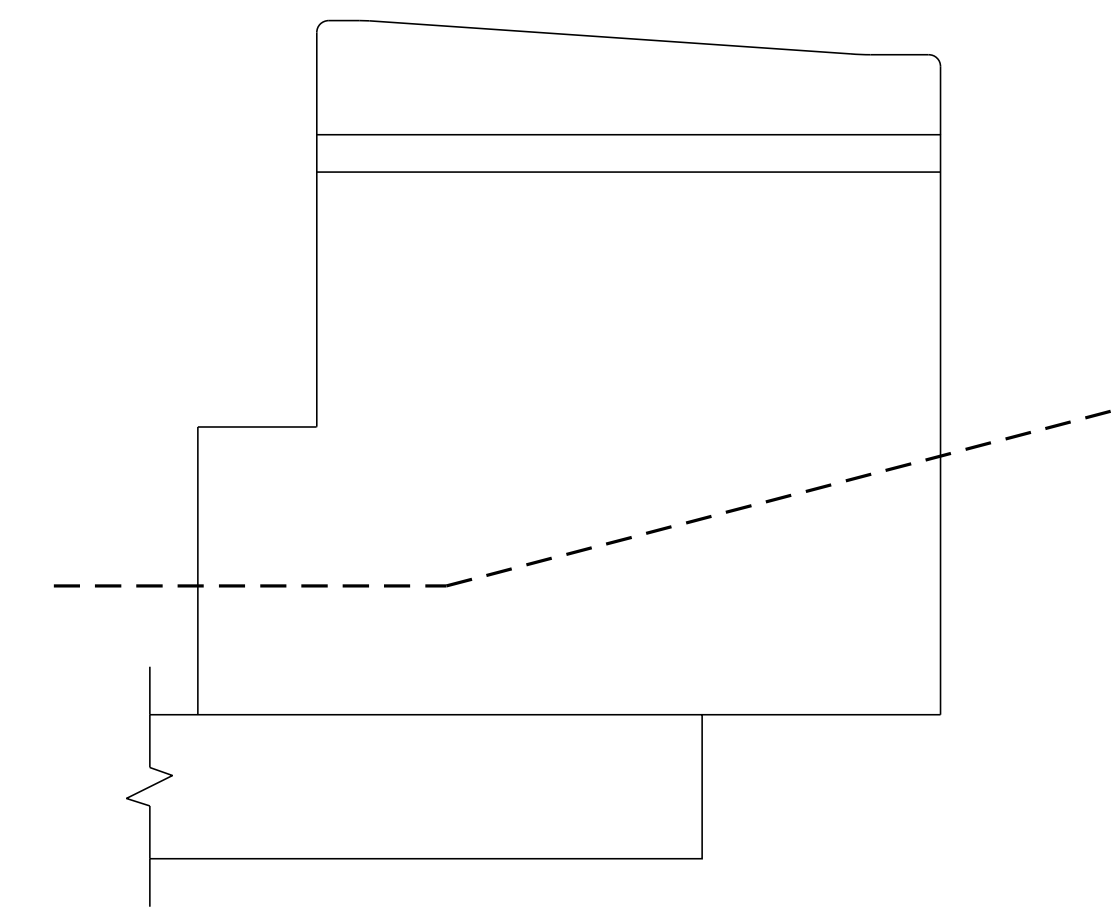
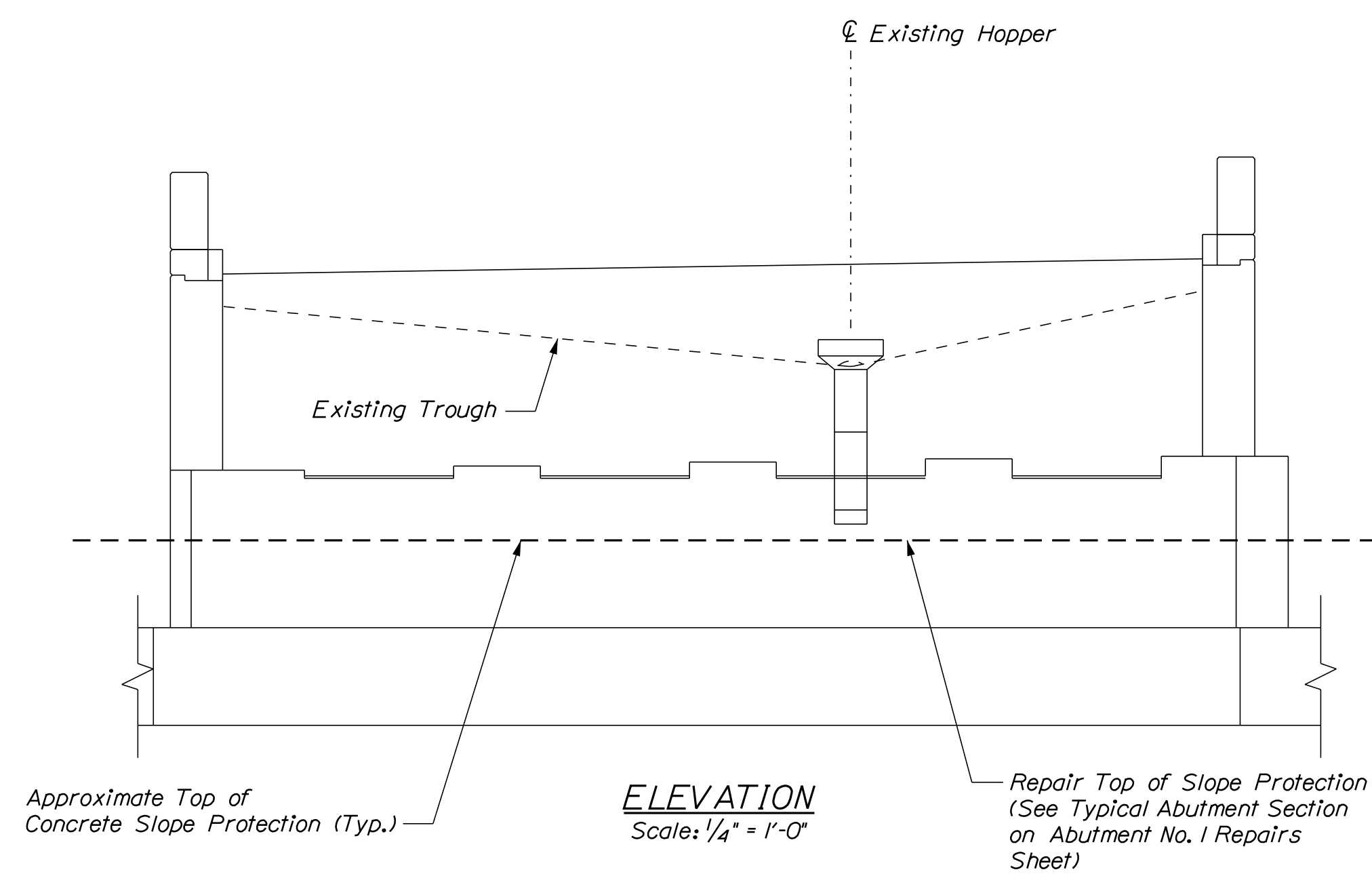
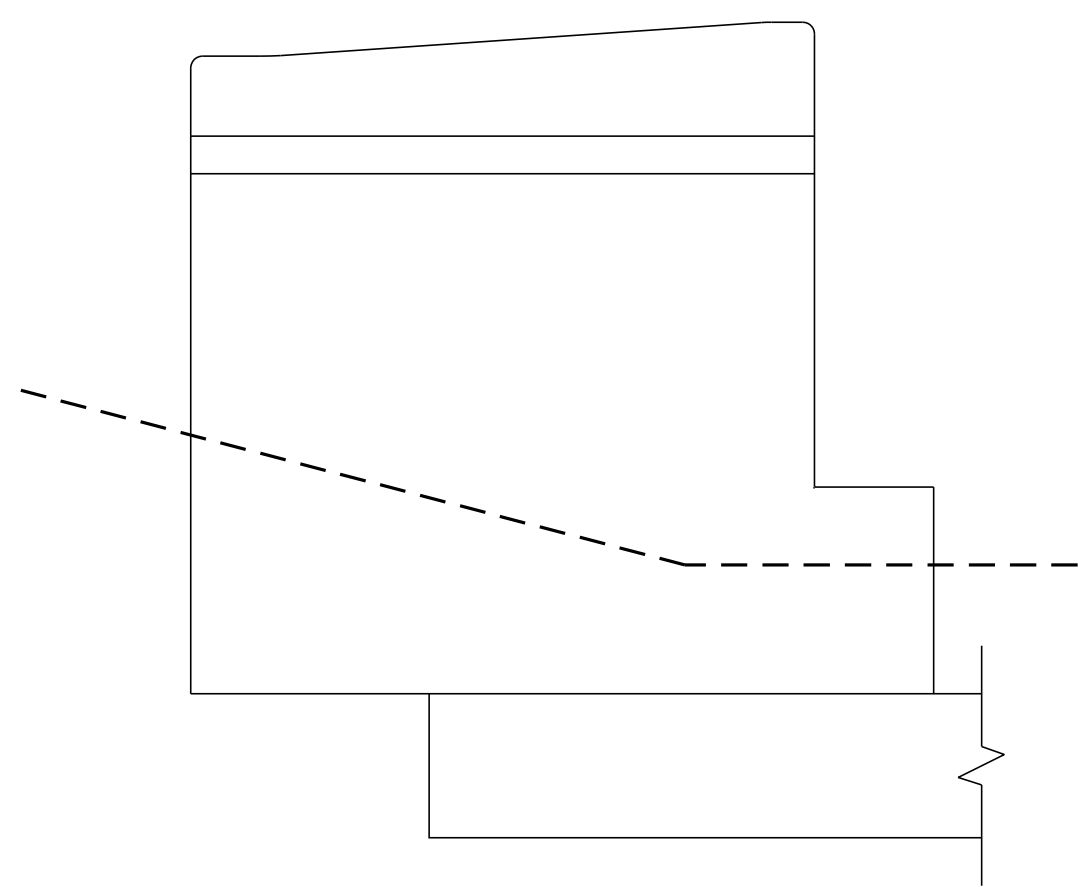
VHB: 55345.00      SHEET NUMBER: **59**  
CONTRACT: 2022.04      **59 OF 117**

Date: 1/14/2022



**NOTES**

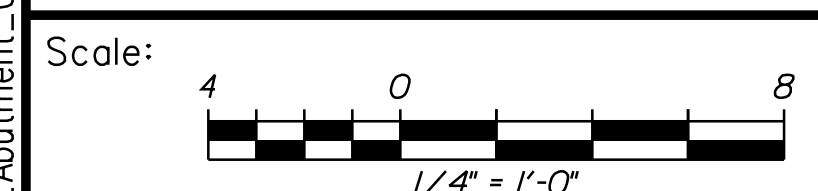
1. The Contractor shall flush clean existing trough as directed by the Resident. This work shall be incidental to the related Contract Items.
2. All labor, equipment, and materials necessary to clean and paint the bearing shall be paid for under Item 506.14 Field Painting of Existing Structural Steel (Ramp H).
3. The Contractor shall remove the existing protective coating prior to applying new coating. Payment for the removal of the existing coating shall be incidental to Item 515.201 Pigmented Protective Coating for Concrete Surfaces.



**SHEET NOTE**


1. For Typical Abutment Section see Abutment No. 1 Repairs Sheet.

Filename: ...060\_Abutment\_02.dgn



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

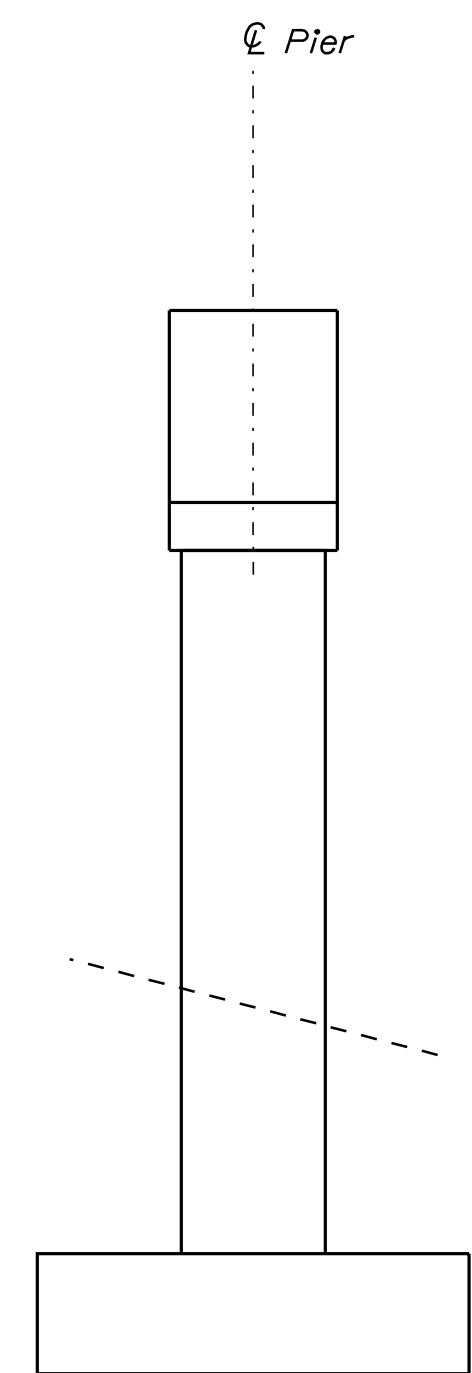
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 1 (RAMP H) UNDERPASS  
AT MM 1.60 IN YORK, ME  
ABUTMENT NO. 2 REPAIRS

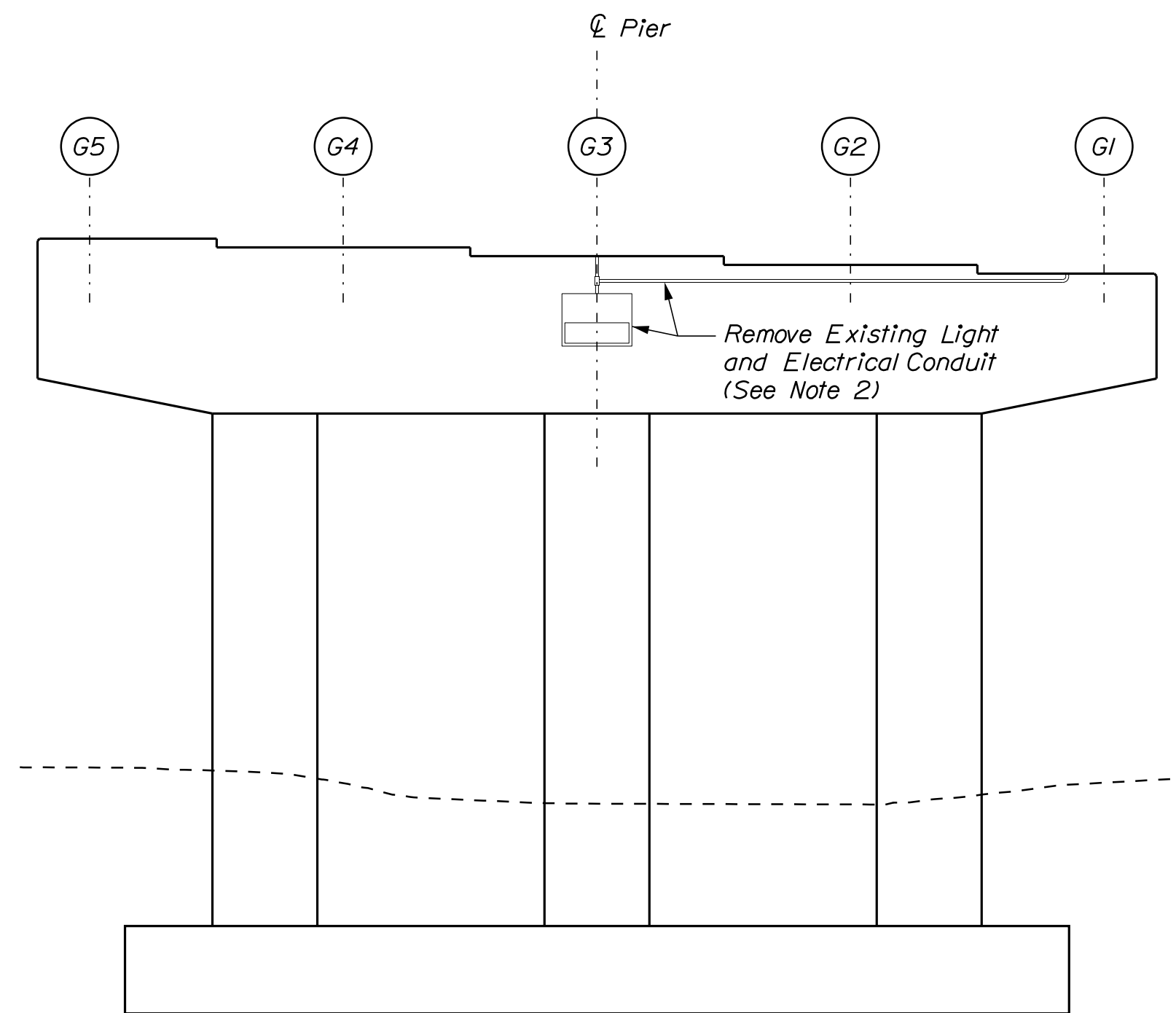
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **60**  
60 OF 117

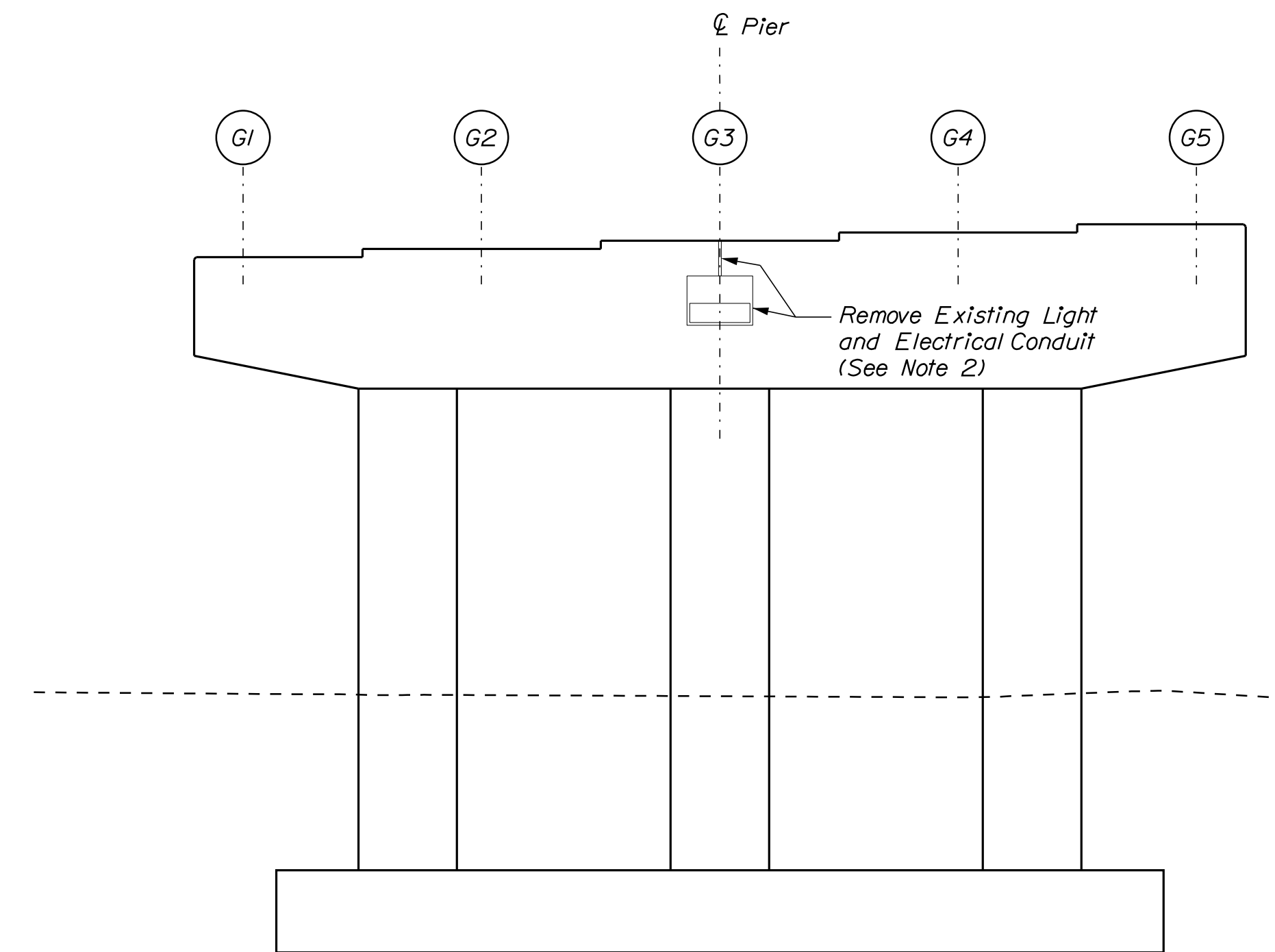
Date: 1/14/2022



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



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

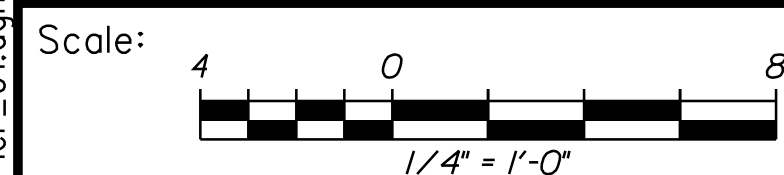


**WEST ELEVATION**  
Scale: 1/4" = 1'-0"

**NOTES**

1. All labor, equipment, and materials necessary to remove existing light and electrical conduit shall be paid for under Item 634.1612 Removal of Bridge and Highway Lighting Including Wire.
2. Wiring for abandoned light fixtures is energized. The Contractor shall deenergize the wires prior to removal. Deenergizing of the existing wires shall be incidental to Item 634.1612 Removal of Bridge and Highway Lighting Including Wire.
3. Application of Pigmented Protective Coating to the pier of the Route 1 (Ramp H) Underpass is not required.

Filename: ...061\_Pier\_01.dgn

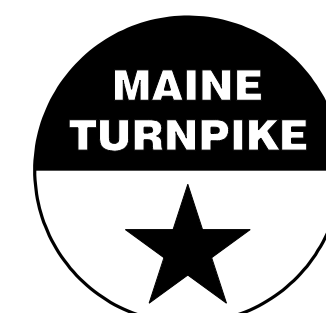


No.	Revision	By	Date

Designed by:



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.04  
ROUTE 1 (RAMP H) UNDERPASS  
AT MM 1.60 IN YORK, ME  
PIER REPAIRS

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
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VHB: 55345.00

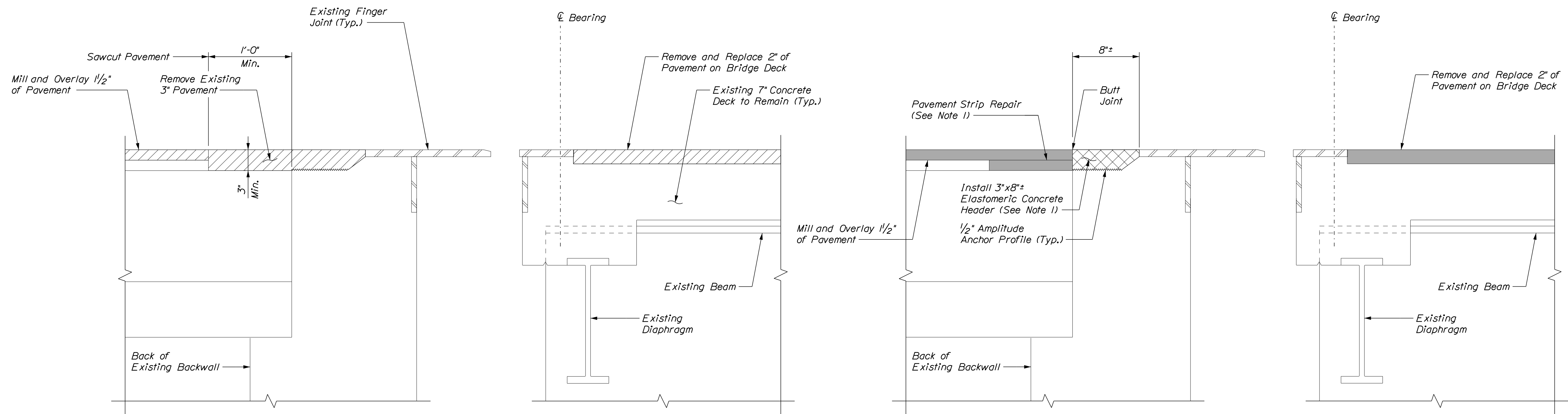
SHEET NUMBER: 61

CONTRACT: 2022.04

61 OF 117

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

Date: 1/14/2022



EXISTING EXPANSION JOINT SECTION

PROPOSED EXPANSION JOINT SECTION

SECTIONS AT EXPANSION JOINTS AT ABUTMENTS  
Not to Scale


NOTE

1. All labor, equipment, and materials necessary for installing the Pavement Strip Repair and Elastomeric Concrete Header shall be incidental to Item 520.2406, Bridge Joint Modification (Ramp H).

Filename: ...062...joint.dgn

No.	Revision	By	Date

Scale: \_\_\_\_\_

Designed by: 

CONSULTANT PROJECT MANAGER: G. Edington					
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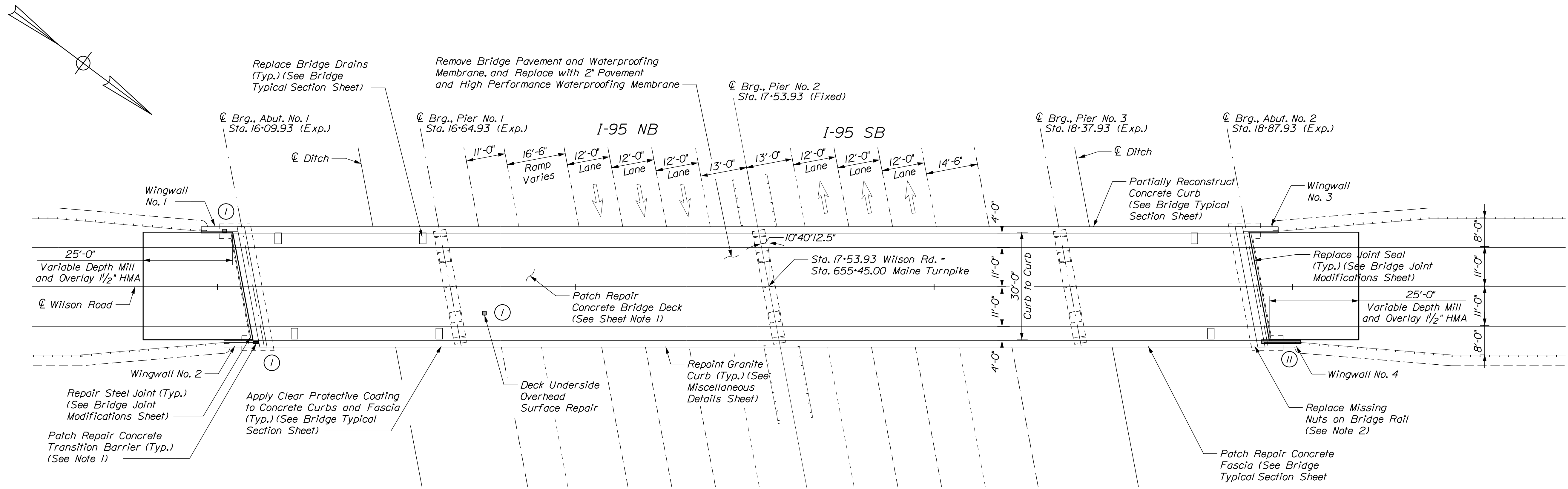
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
ROUTE 1 (RAMP H) UNDERPASS  
AT MM 1.60 IN YORK, ME  
BRIDGE JOINT MODIFICATIONS

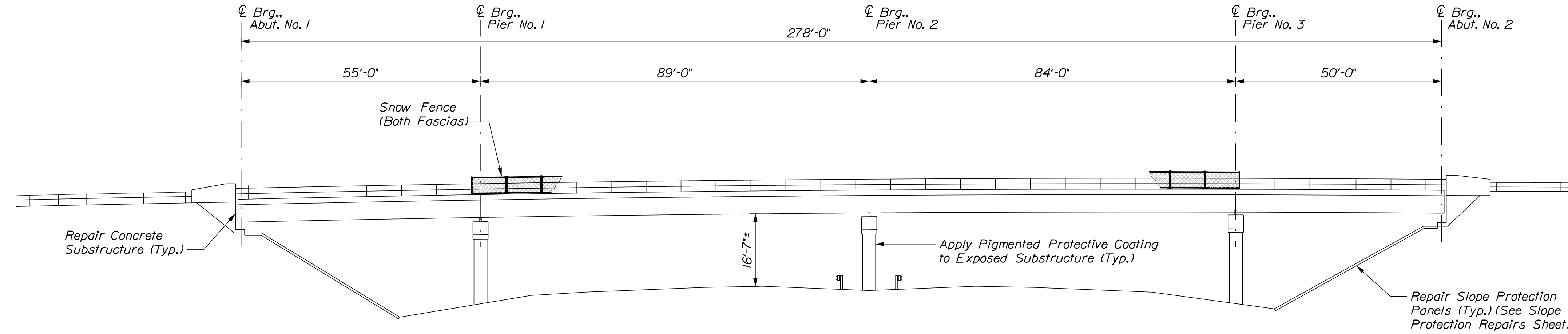
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **62**  
62 OF 117

Date: 1/14/2022



**PLAN**  
Scale 1/16" = 1'-0"



**ELEVATION**  
Scale 1/16" = 1'-0"

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Overhead Surface Repairs	5*
* Includes 4 S.F. Additional Repair Quantity As A Contingency	
Fascia Repairs	130**
** Includes 9 S.F. Additional Repair Quantity As A Contingency	
Partial Depth Concrete Deck Repairs	420***
*** Assumes 5% of the Deck will require Partial Depth Concrete Repairs.	
Transition Barrier Repairs	15****
**** Includes 2 S.F. Additional Repair Quantity As A Contingency	

- SHEET NOTE**
- For Concrete repair Notes and Details see Concrete Repair Typical Details Sheet.
- NOTES**
- Transition barrier concrete repairs shall be paid for under Item 518.10 Abutment Repairs.
  - Replace missing nuts on bridge rail as directed by the Resident. This work shall be incidental to the related Contract Items.

**KEY**

	Limit of Crack Repair
	Limit of Surface Patch Repair
	Linear Feet of Crack Repair
	Square Footage of Repair

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

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
WILSON ROAD UNDERPASS  
AT MM 2.0 IN YORK, ME  
GENERAL PLAN AND ELEVATION

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **63**  
**63 OF 117**

**ESTIMATED CONCRETE REPAIR QUANTITIES (LF)**

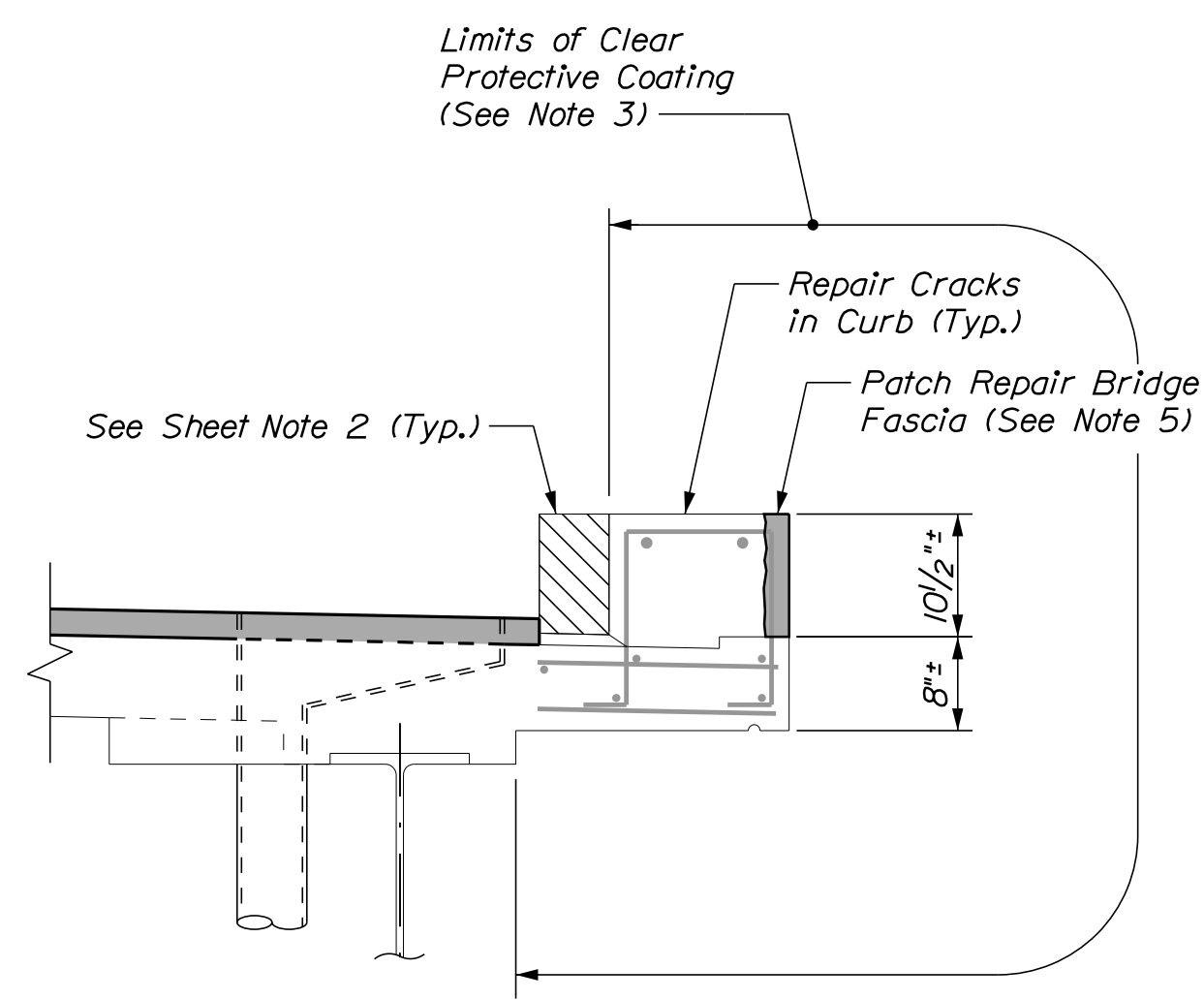
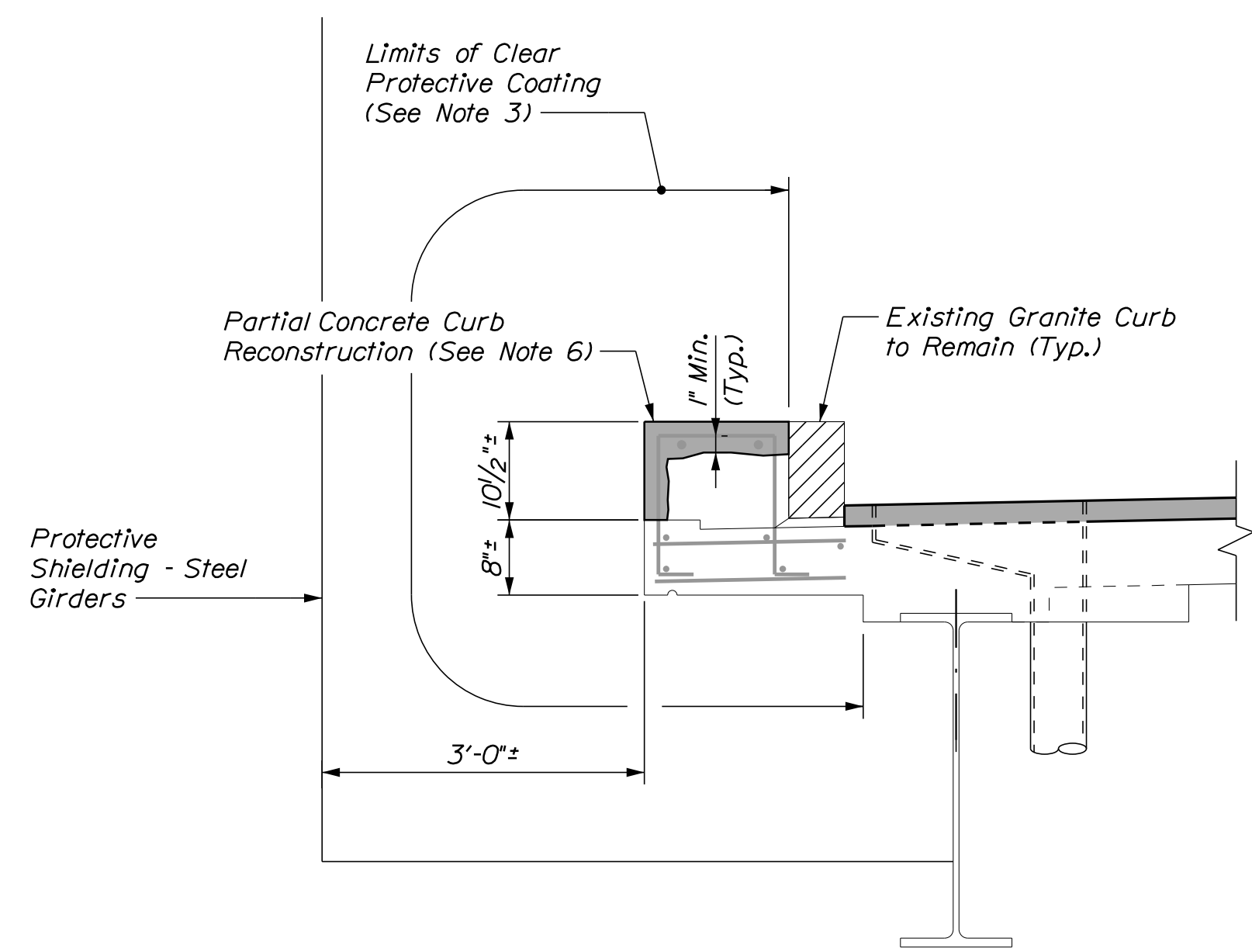
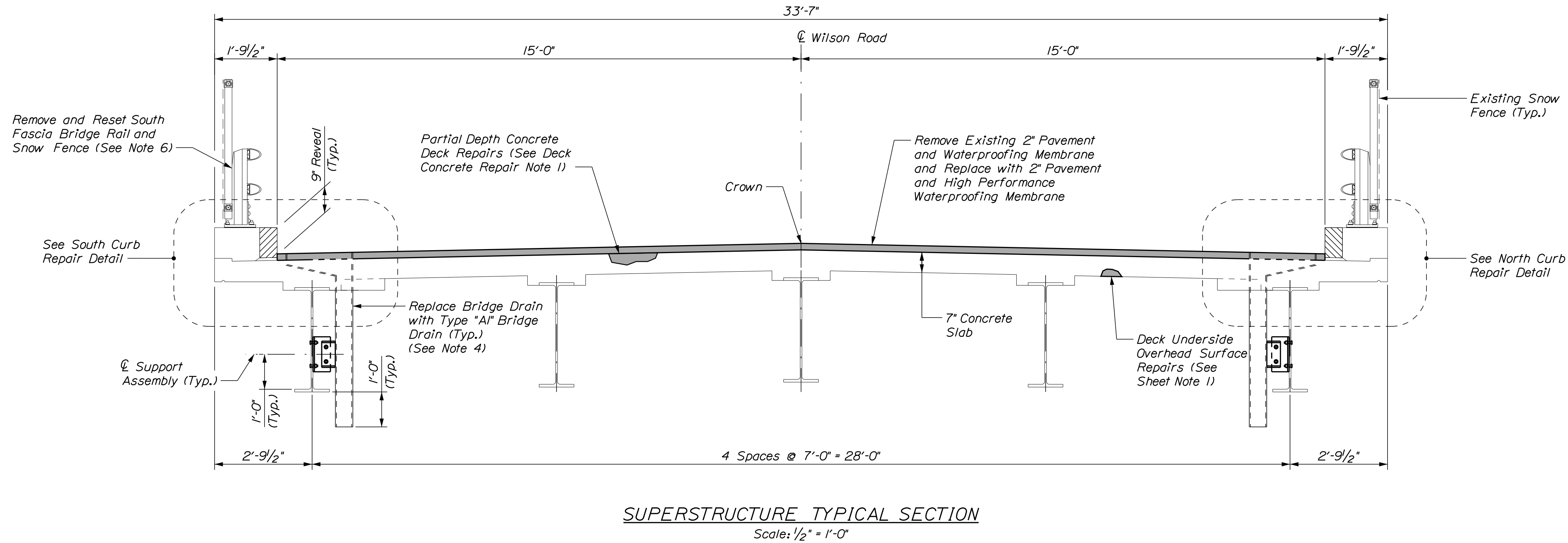
Epoxy Injection Crack Repair 90 \*  
 \* Includes 5 L.F. Additional Repair Quantity As A Contingency

**DECK CONCRETE REPAIR NOTES**

- Prior to the start of the deck concrete repairs, the Resident and the Contractor shall sound all deck concrete using a chain drag or other method approved by the Resident to determine the required repair limits. All costs for sounding the existing deck concrete shall be incidental to Item 518.80 Partial Depth Concrete Deck Repairs.
- Sawcut 1" deep along all limits of removal.
- Chip concrete to the depth specified in Supplemental Specifications 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.
- Prepare and patch repair deteriorated areas. Install new reinforcing steel, as required. See Supplemental Specifications 518.
- Selectively patch repair the north bridge fascia as directed by the Resident. Patch repair of the north fascia shall be paid for under Item 518.75 Fascia and Overhang Repairs.
- Reconstruct the south concrete bridge curb as shown in the South Curb Repair Detail. All labor, equipment, and materials necessary to partially reconstruct the south concrete bridge curb, including removing and resetting the existing bridge rail and snow fence, shall be paid for under Item 518.76, Partial Concrete Curb Reconstruction. See Special Provision Section 518 for additional requirements.
- Limits of clear protective coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.
- Replacing the bridge drains shall be paid under Item 502.702, Replace Bridge Drain (Type AI).

**SHEET NOTES**

- For Concrete repair Notes and Details see Concrete Repair Typical Details Sheet.
- For Existing Granite Curb Detail see Miscellaneous Details Sheet.




Date: 1/14/2022

Filename: ...064...BJtyp...3.dgn

Scale: AS NOTED

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: G. Edington

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

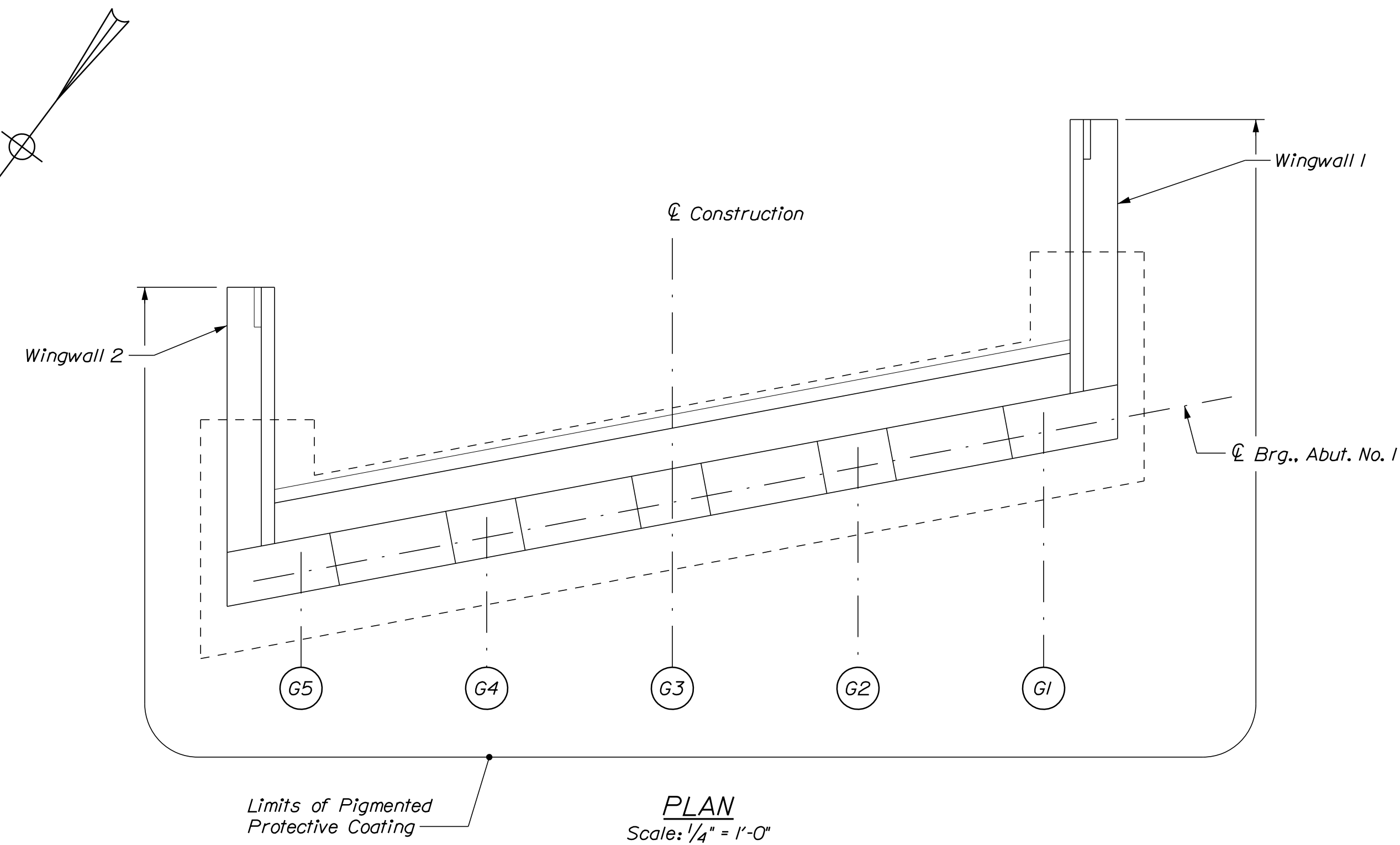
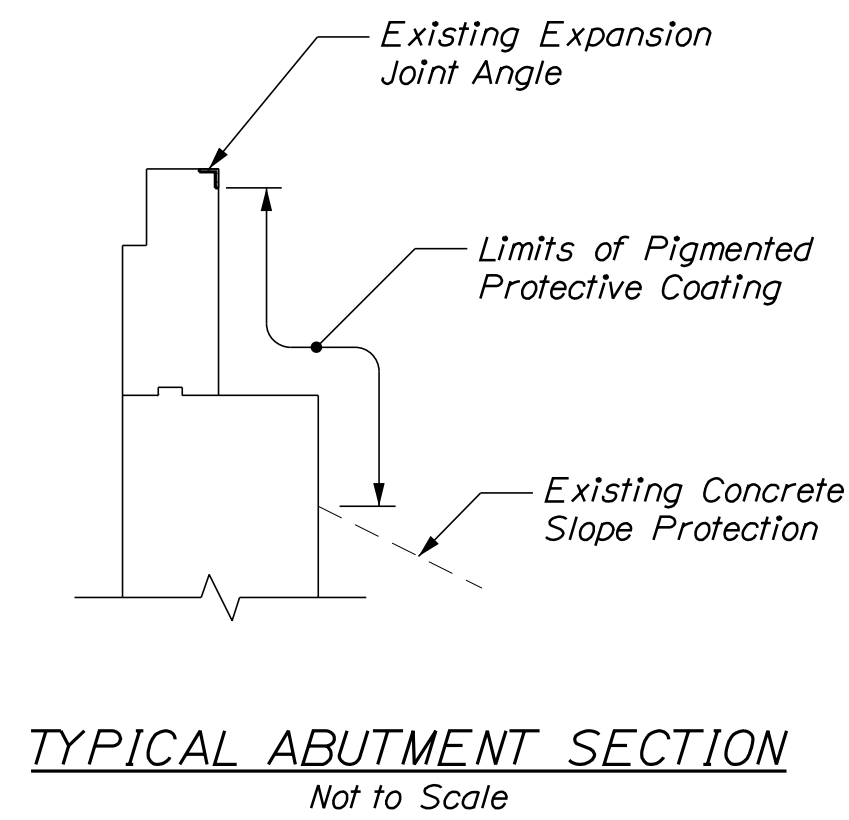
MTA PROJECT NO. 2022.04  
 WILSON ROAD UNDERPASS  
 AT MM 2.0 IN YORK, ME  
 BRIDGE TYPICAL SECTION

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **64**  
 64 OF 117



Date: 1/14/2022

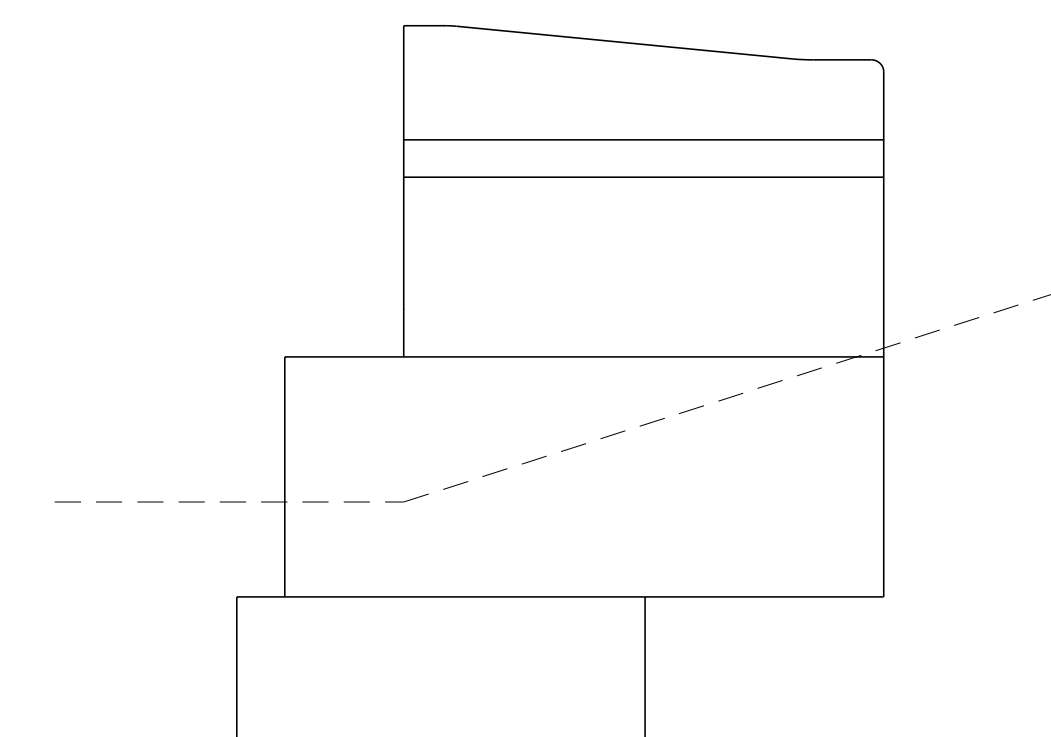
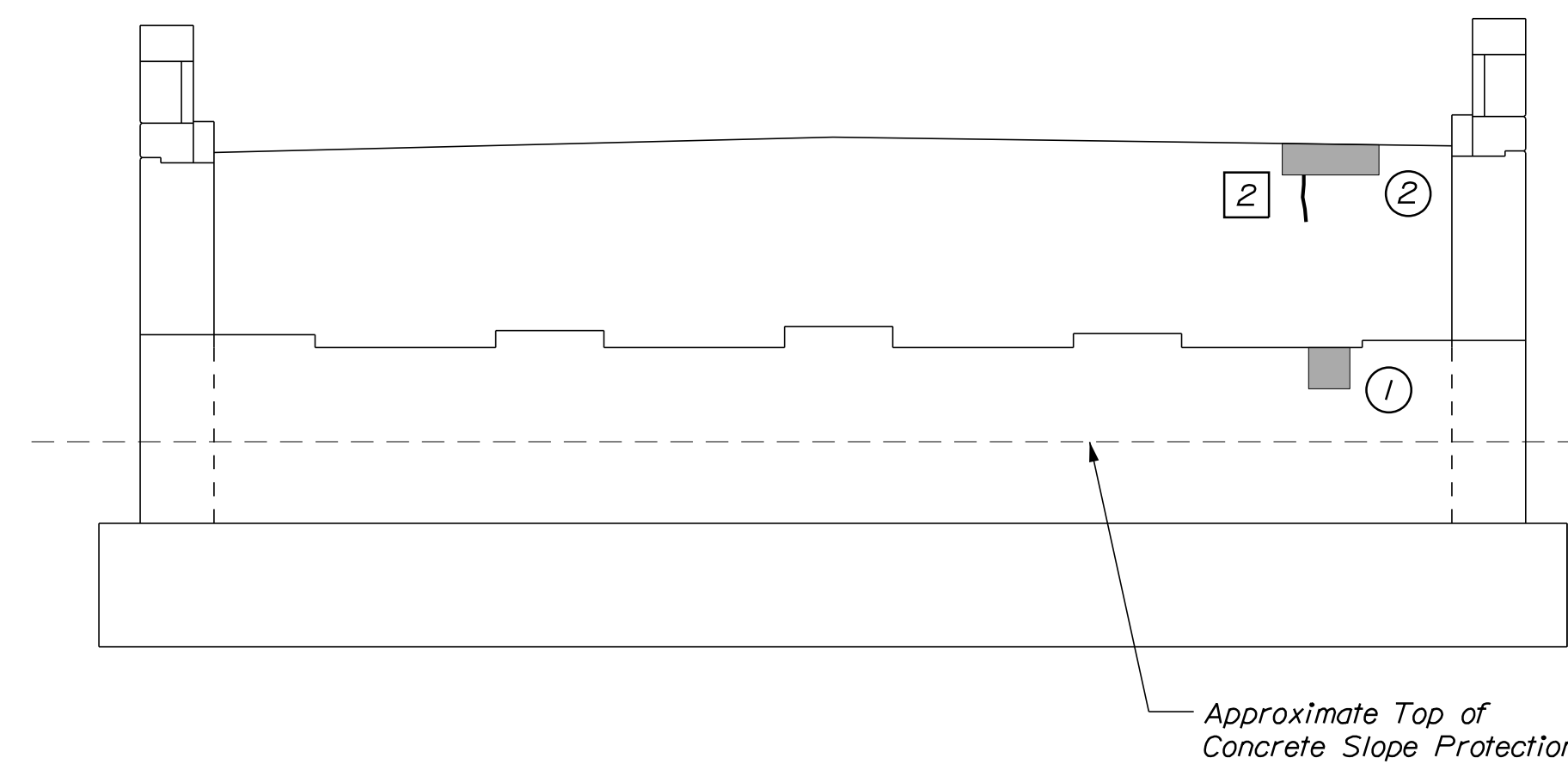
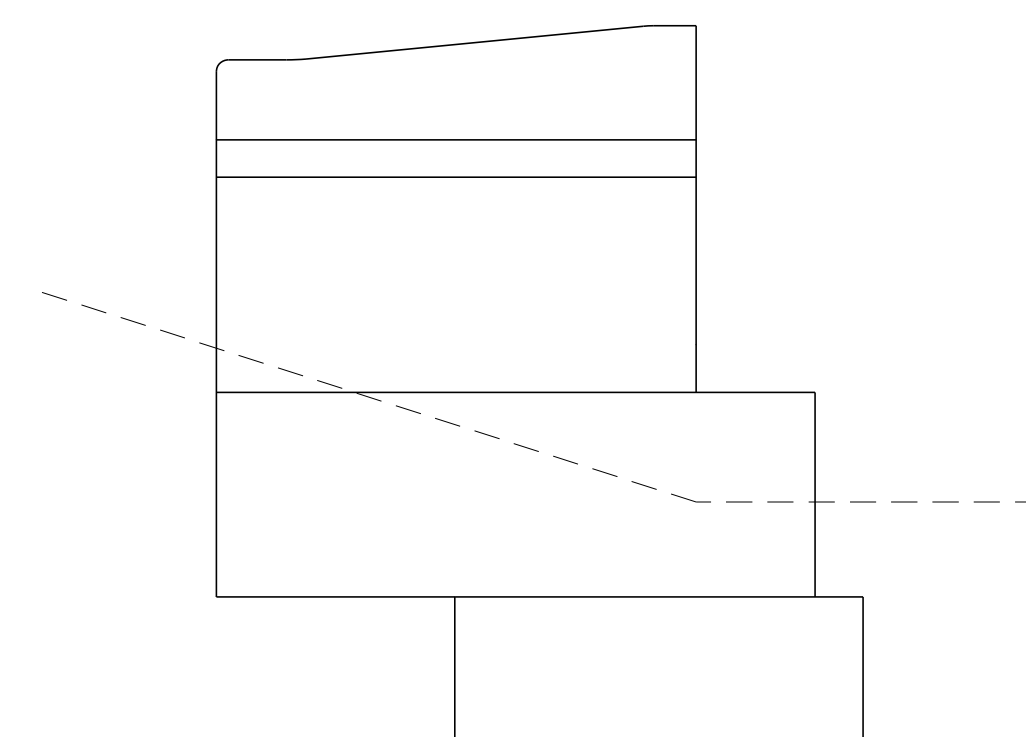


**ESTIMATED CONCRETE REPAIR QUANTITIES (SF/LF)**

Surface Abutment Repairs	5 *
* Includes 2 S.F. Additional Repair Quantity As A Contingency	
Epoxy Injection Crack Repair	5 **
** Includes 3 L.F. Additional Repair Quantity As a Contingency	

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair



**SHEET NOTE**

1. For Concrete and Crack Repair Notes and Details see Concrete Repair Typical Details Sheet.

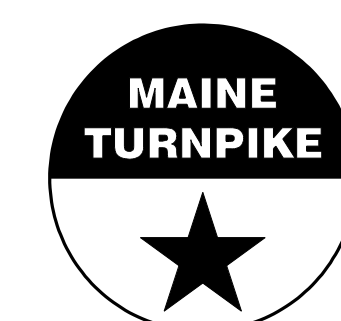
Filename: ...065\_Abutment\_01.dgn

Scale:			
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
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Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
WILSON ROAD UNDERPASS  
AT MM 2.0 IN YORK, ME  
ABUTMENT NO. 1 REPAIRS

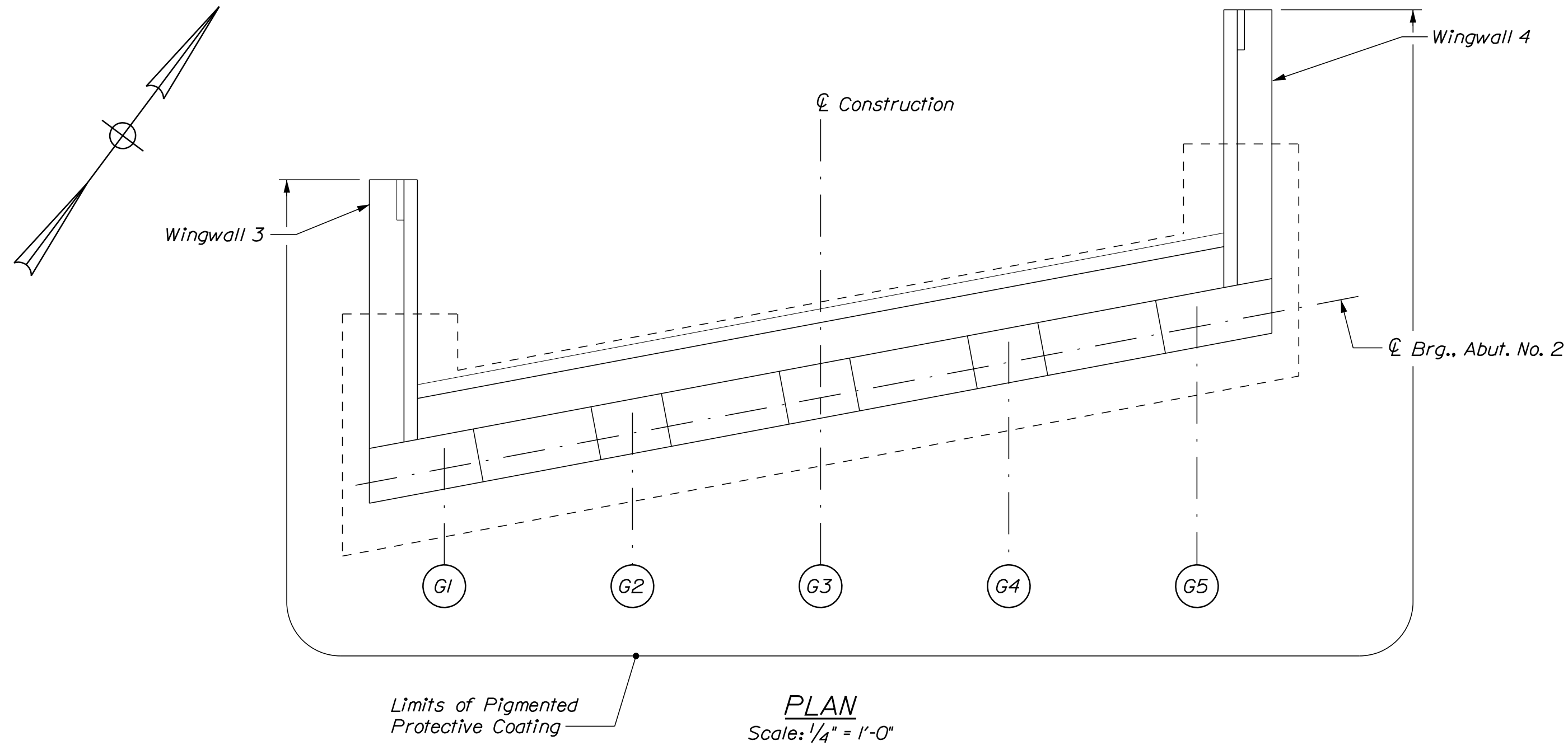
VHB: 55345.00

CONTRACT: 2022.04

SHEET NUMBER: 65

65 OF 117

Date: 1/14/2022



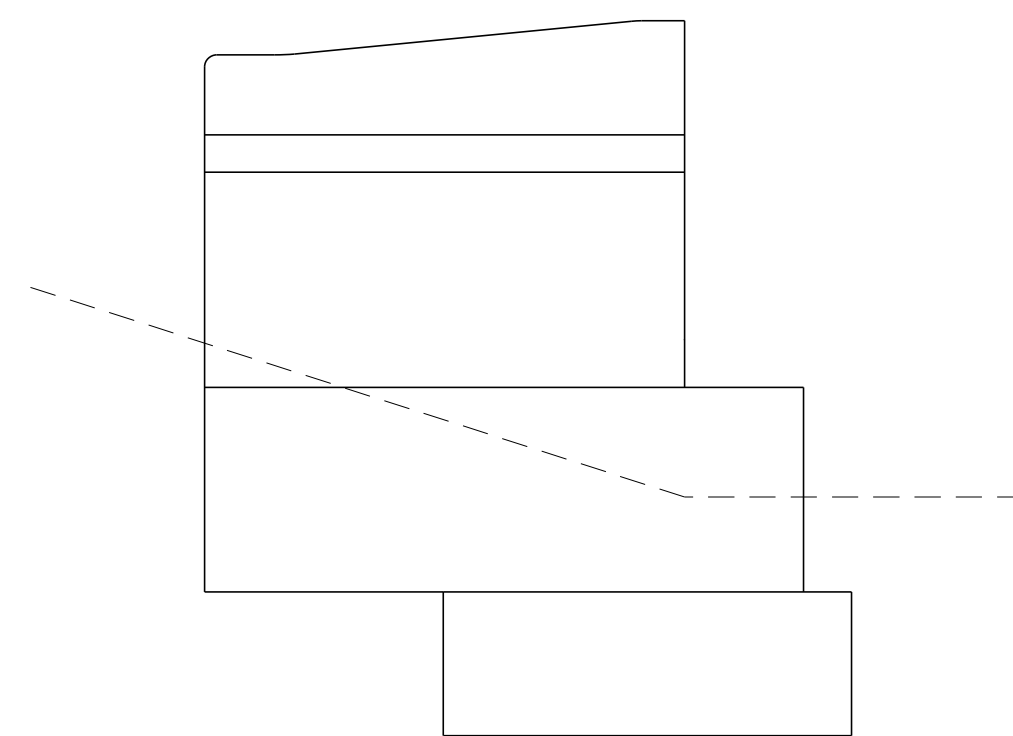
**PLAN**  
Scale: 1/4" = 1'-0"

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

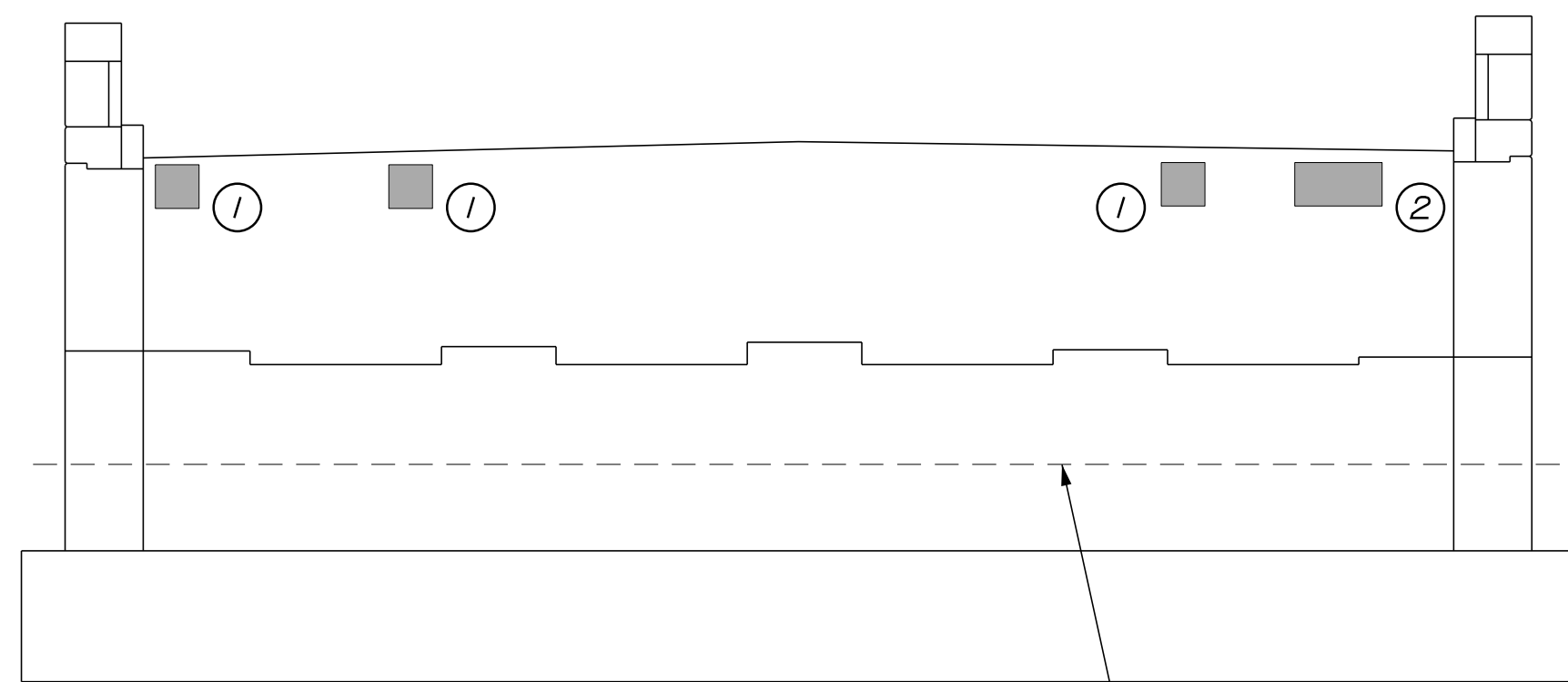
Surface Abutment Repairs 10\*  
\* Includes 5 S.F. Additional Repair Quantity As A Contingency

**KEY**

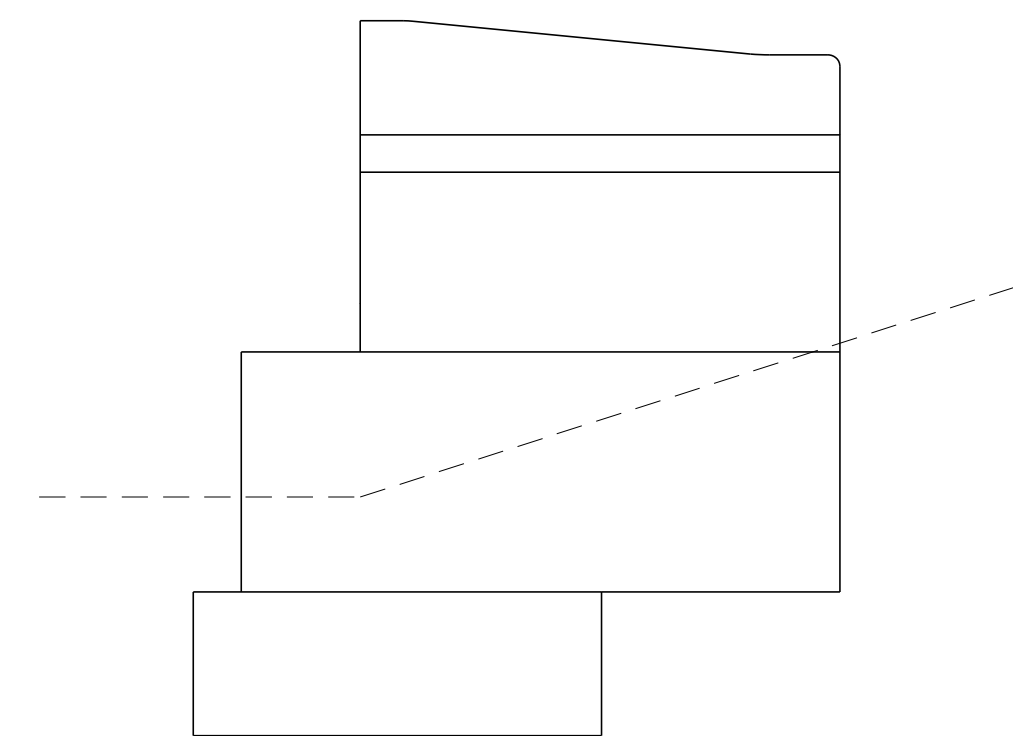
- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair



**WINGWALL 3 ELEVATION**  
Scale: 1/4" = 1'-0"



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



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

**SHEET NOTES**

1. For Concrete and Crack Repair Notes and Details see Concrete Repair Typical Details Sheet.
2. For Typical Abutment Section see Abutment No. 1 Repair Sheets.

Filename: ... \066\_Abutment\_02.dgn



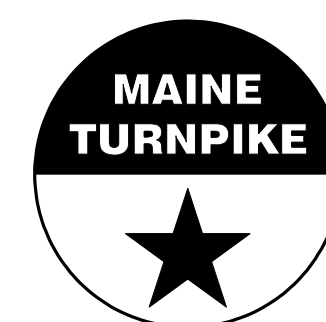
No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
WILSON ROAD UNDERPASS  
AT MM 2.0 IN YORK, ME  
ABUTMENT NO. 2 REPAIRS

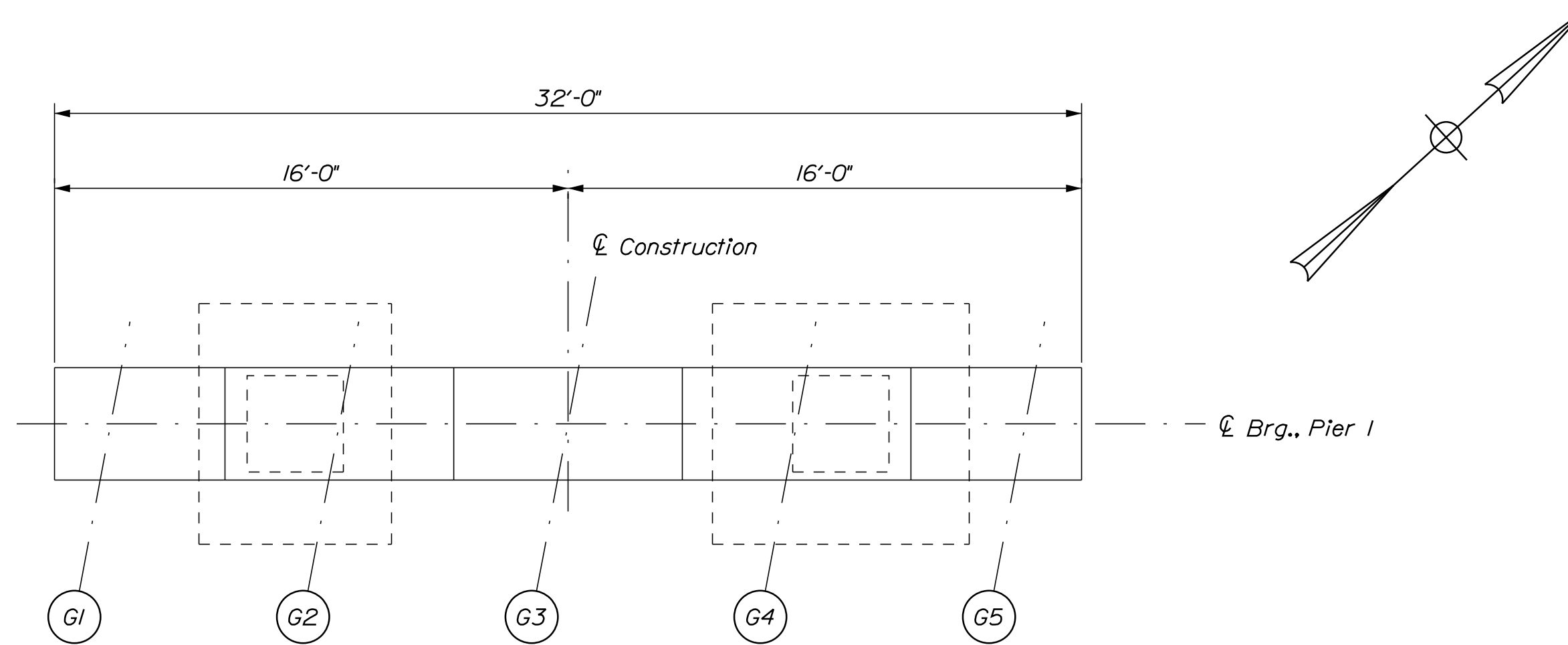
VHB: 55345.00

CONTRACT: 2022.04

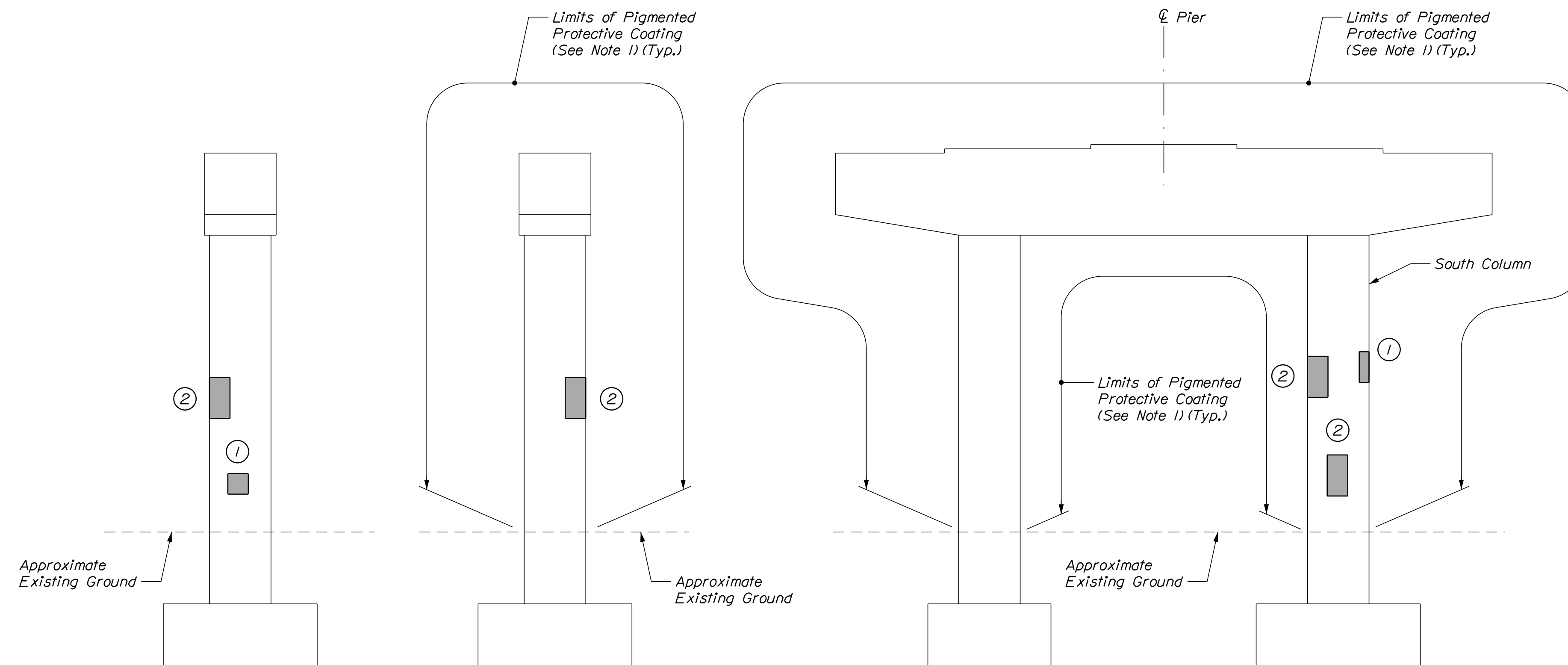
SHEET NUMBER: 66

66 OF 117

Date: 1/14/2022



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



**PIER 1 (SOUTH COLUMN) SOUTH ELEVATION**  
Scale: 1/4" = 1'-0"

**PIER 1 (SOUTH COLUMN) NORTH ELEVATION**  
Scale: 1/4" = 1'-0"

**PIER 1 WEST ELEVATION**  
Scale: 1/4" = 1'-0"

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Pier Repairs 15\*  
\* Includes 5 S.F. Additional Repair Quantity As A Contingency

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

**NOTE**

1. Limits of Pigmented Protective Coating applied to Pier 3 is similar to Pier 1.

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MEB	10/29/21	Checked GME 10/29/21
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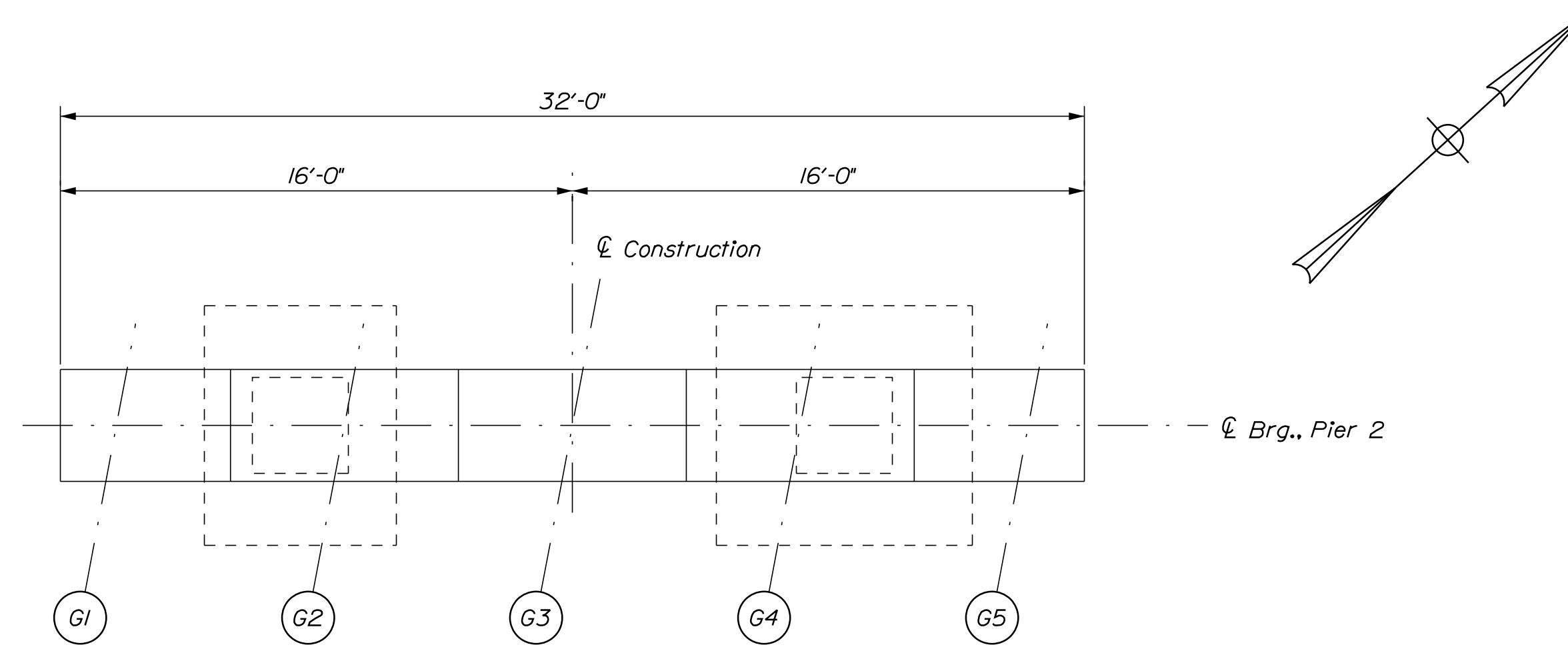
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

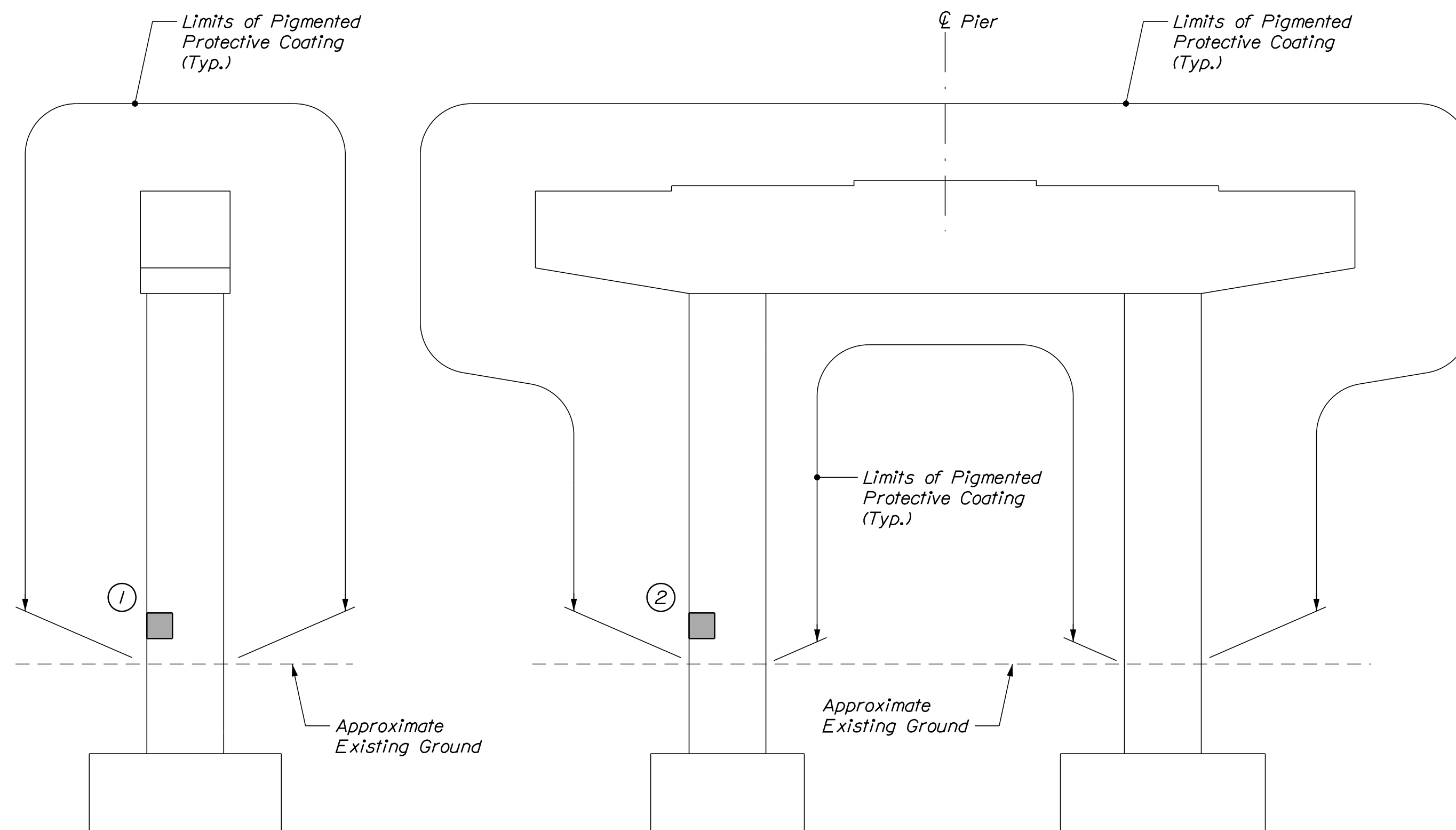
MTA PROJECT NO. 2022.04  
WILSON ROAD UNDERPASS  
AT MM 2.0 IN YORK, ME  
PIER NO. 1 REPAIRS

VHB: 55345.00 SHEET NUMBER: **67**  
CONTRACT: 2022.04 67 OF 117

Date: 1/14/2022



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



**PIER 2 SOUTH ELEVATION**  
Scale: 1/4" = 1'-0"

**PIER 2 WEST ELEVATION**  
Scale: 1/4" = 1'-0"

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Pier Repairs 5\*  
\* Includes 2 S.F. Additional Repair Quantity As A Contingency

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	GME	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

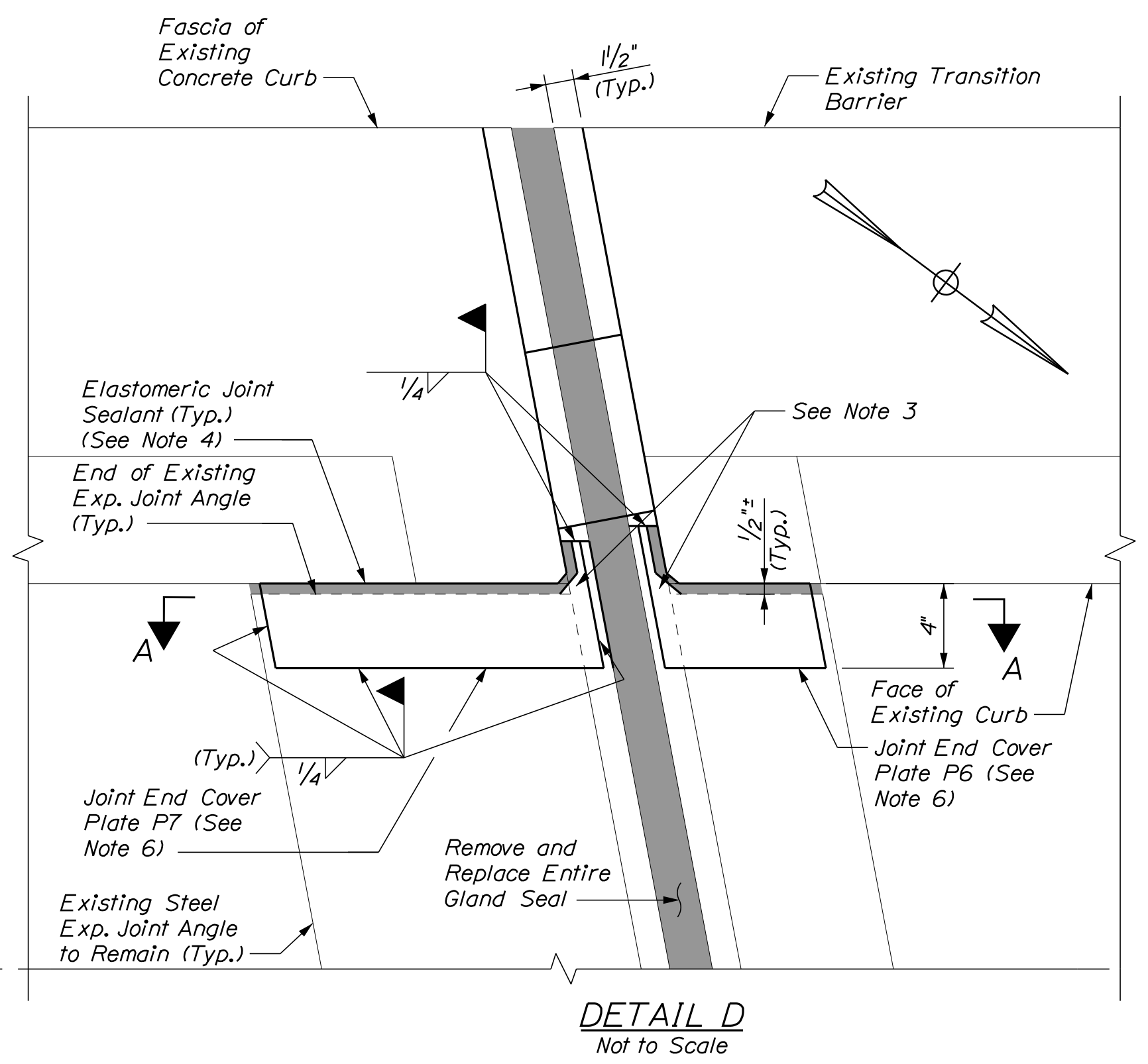
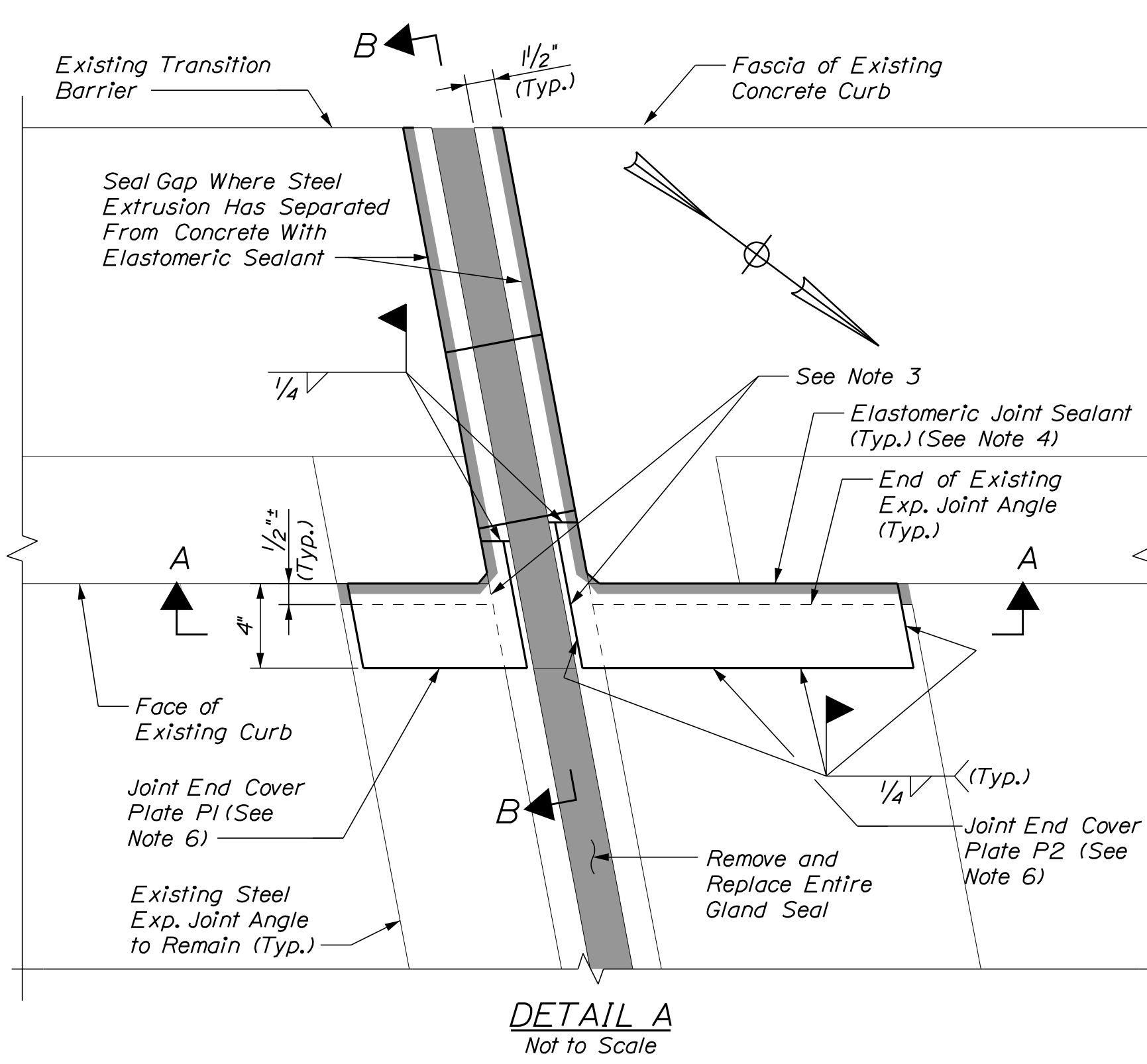
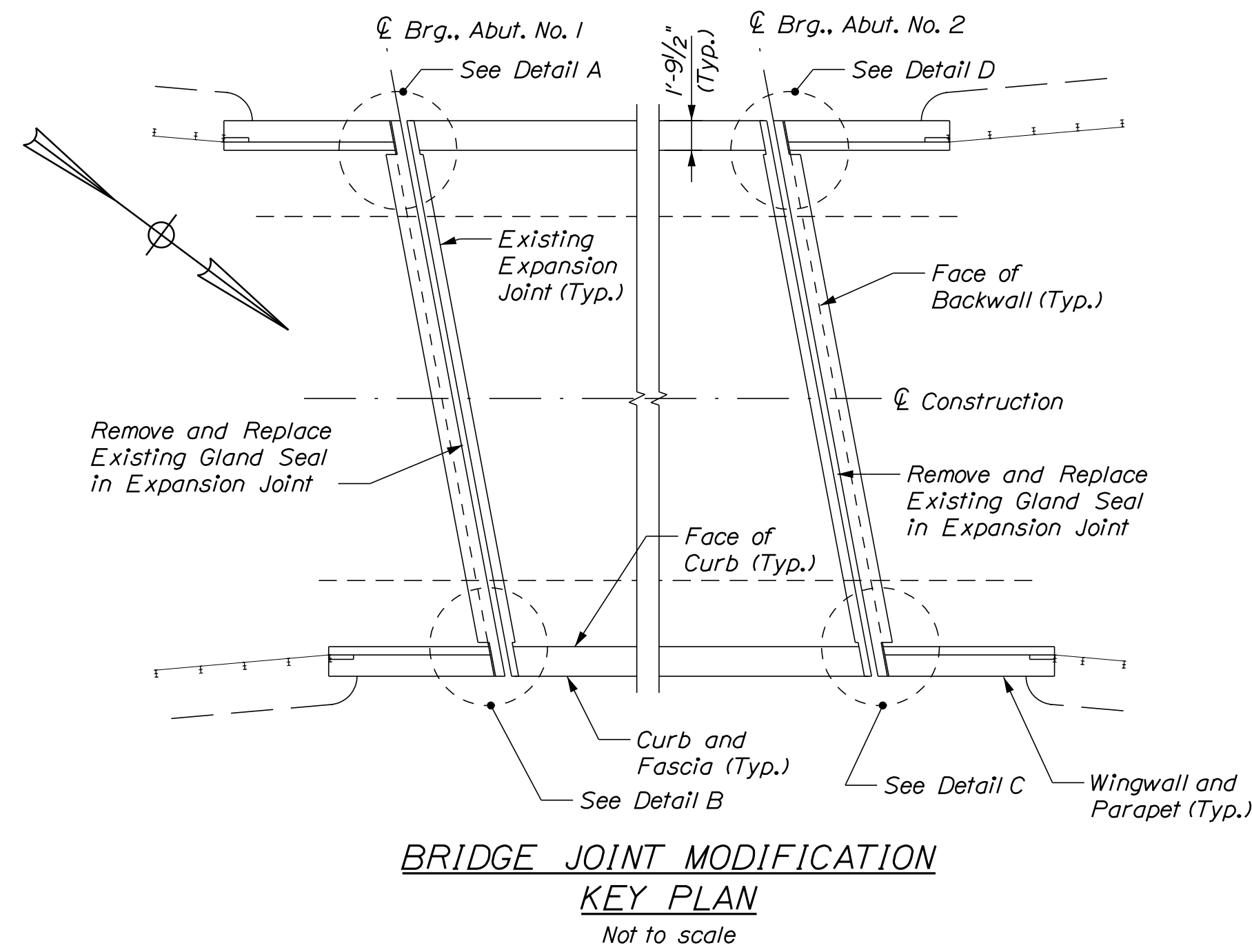
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
WILSON ROAD UNDERPASS  
AT MM 2.0 IN YORK, ME  
PIER NO. 2 REPAIRS

VHB: 55345.00  
CONTRACT: 2022.04
SHEET NUMBER: **68**  
68 OF 117

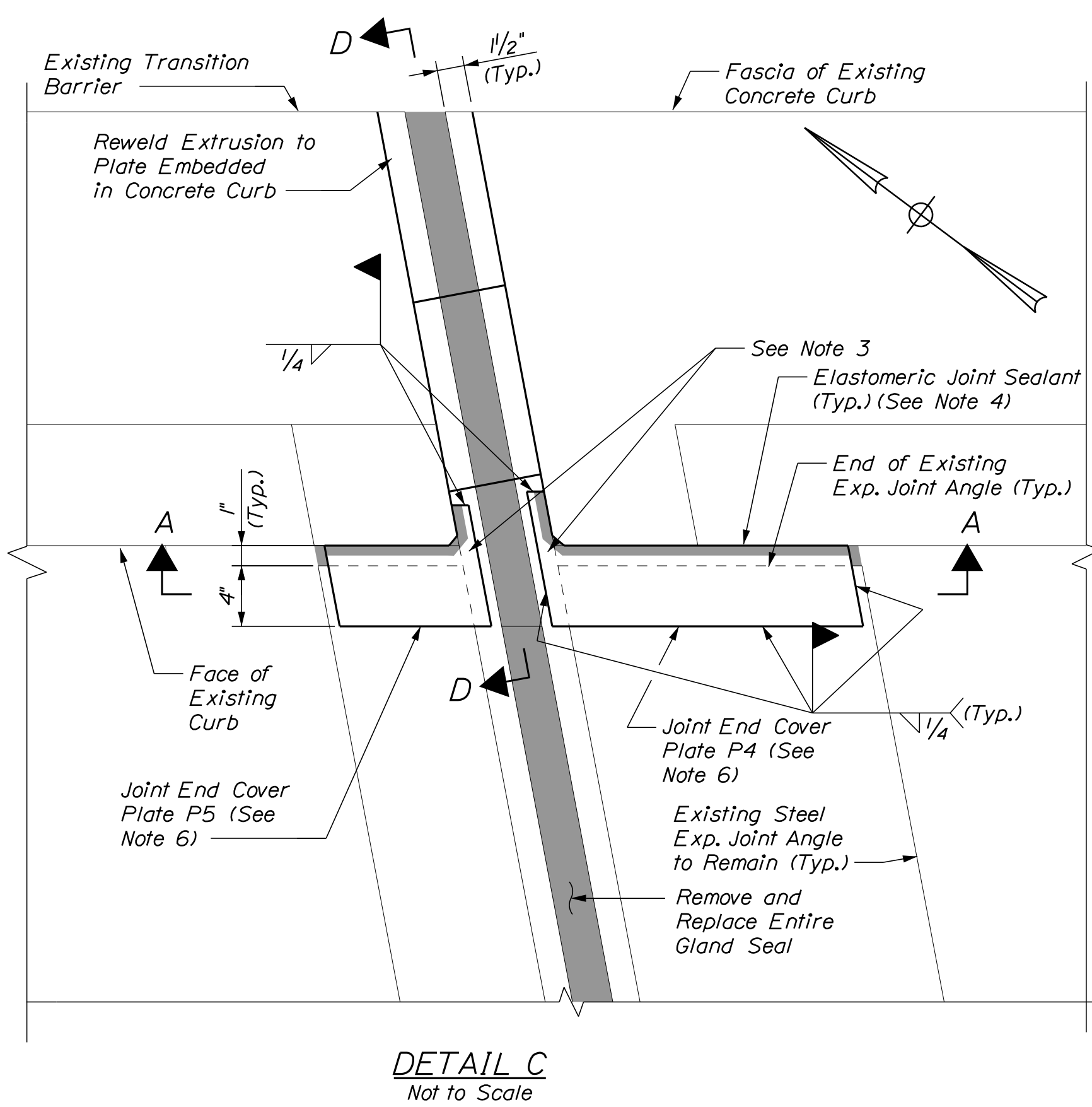
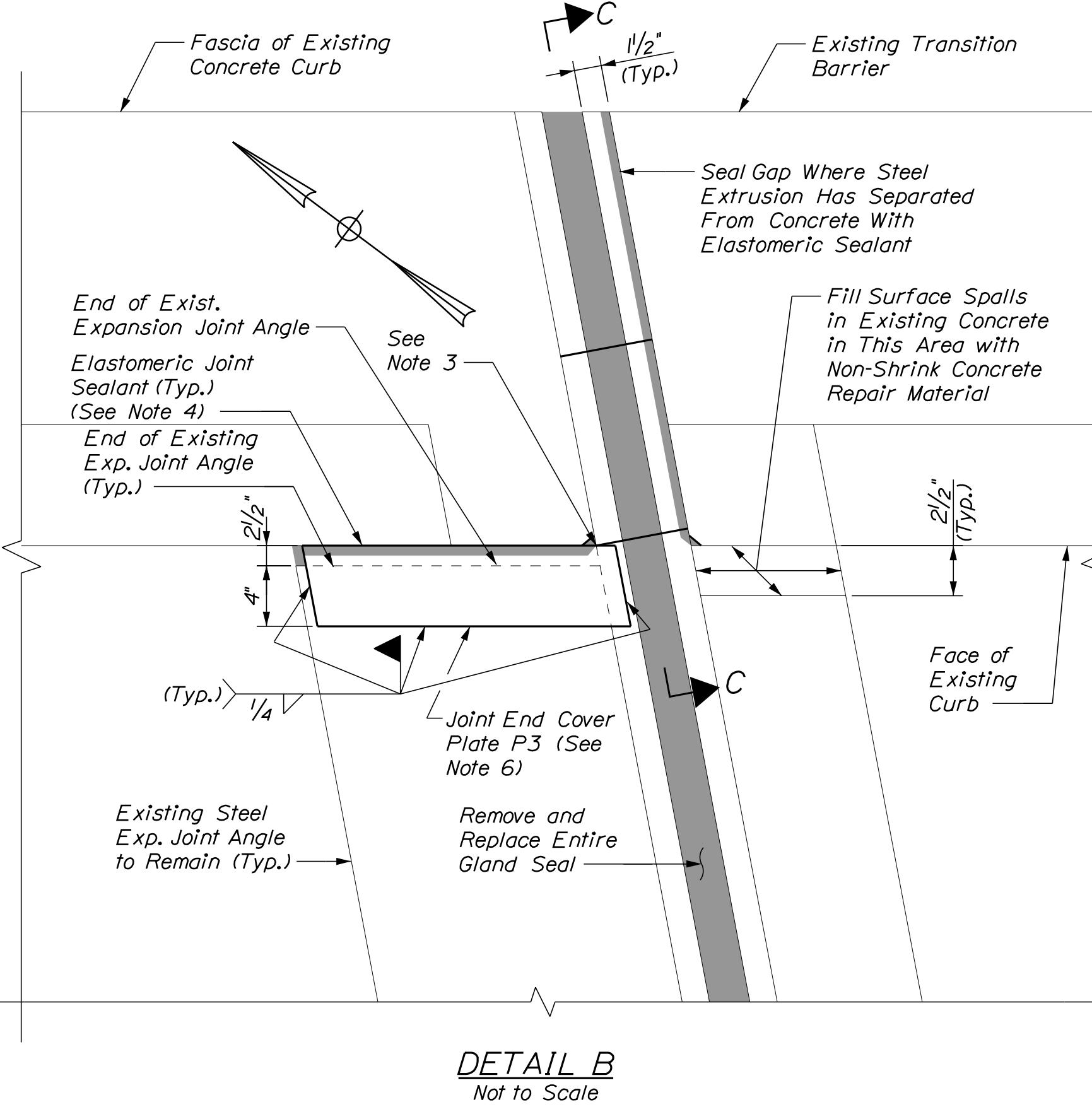
Date: 1/14/2022

Filename: ...069\_Brg-Joint-Repair\_1.dgn



**BRIDGE JOINT MODIFICATION NOTES:**

1. Replace the entire existing gland seal in the deck end expansion joints at both abutments. The existing gland seal is called out as a S-300 Watson Bowman Acme on the 1988 rehabilitation plans. Field investigation indicates that is the type of gland seal currently installed.
2. Install steel joint end cover plates as shown in the details on this sheet to seal holes at face of curb that are currently allowing roadway drainage onto fascia girder and bridge seat. Grind top of existing expansion joint angle and extrusion as required to provide a smooth surface for the cover plates to bear on. Dimensions of joint end cover plates shown in these plans are based on limited field measurements. The Contractor shall take sufficient field measurements to confirm the proposed dimensions of the plates. If adjustments to plate dimensions are required for proper fit up based on Contractor's field measurements, the Contractor shall submit plans annotated with the revised dimensions to the Resident prior to fabrication.
3. Prior to installation of joint end cover plates, place non-shrink concrete repair material to fill any voids in backwall or concrete deck end below or adjacent to the cover plates. Use foam backer rod or forms as necessary to contain the repair material.
4. After the joint end cover plates are installed, place elastomeric joint sealant along interface with face of curb and any other unwelded edges of the plates or adjacent openings to prevent water intrusion through joint.
5. At the locations shown in these plans where the steel extrusion in the curb has separated from the concrete, reweld the extrusion to the embedded steel plate or where there is insufficient remaining embedded steel plate due to corrosion seal the gap with elastomeric sealant.
6. See Bridge Joint Modifications Sheet 2 of 2 for sections and joint end cover plate details.
7. All labor, equipment, and material to complete the installation of the joint end cover plates shall be paid for under Item 530.2407, Bridge Joint Steel Modification.



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

No.	Revision	By	Date

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Designed	MEB	10/29/21	Checked	GME	10/29/21
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**THE GOLD STAR MEMORIAL HIGHWAY**

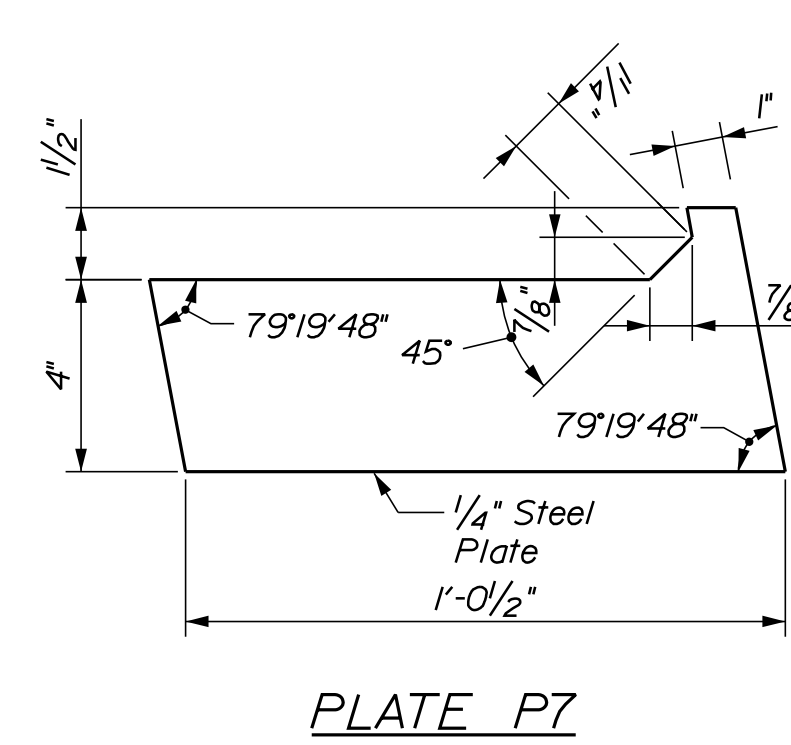
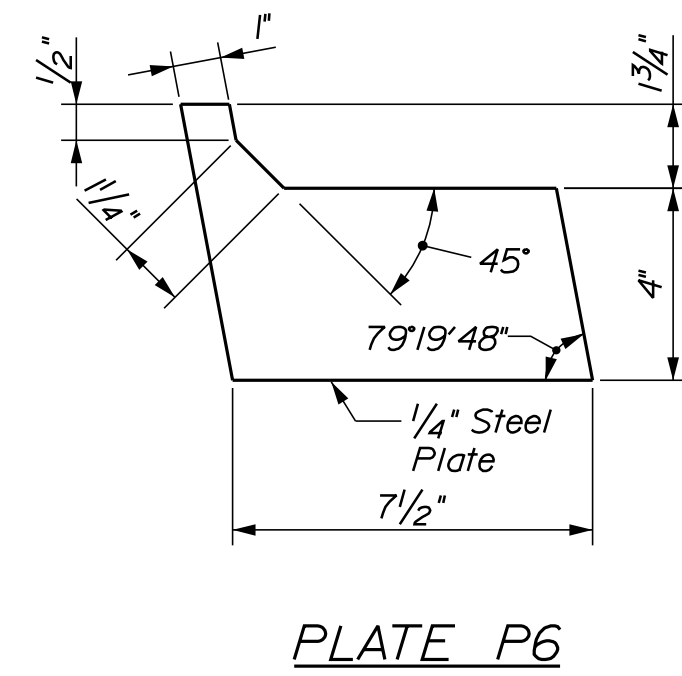
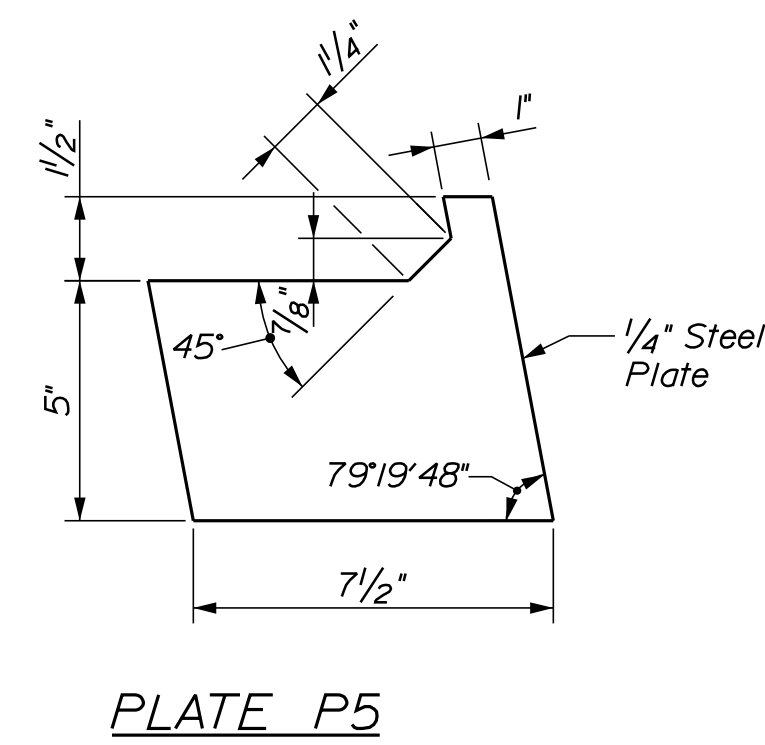
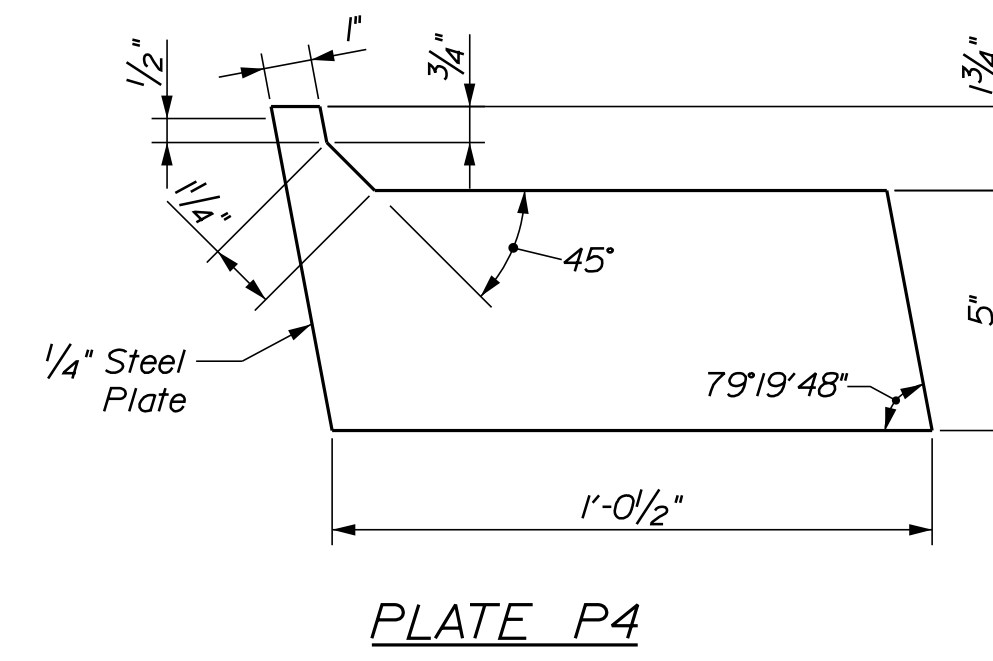
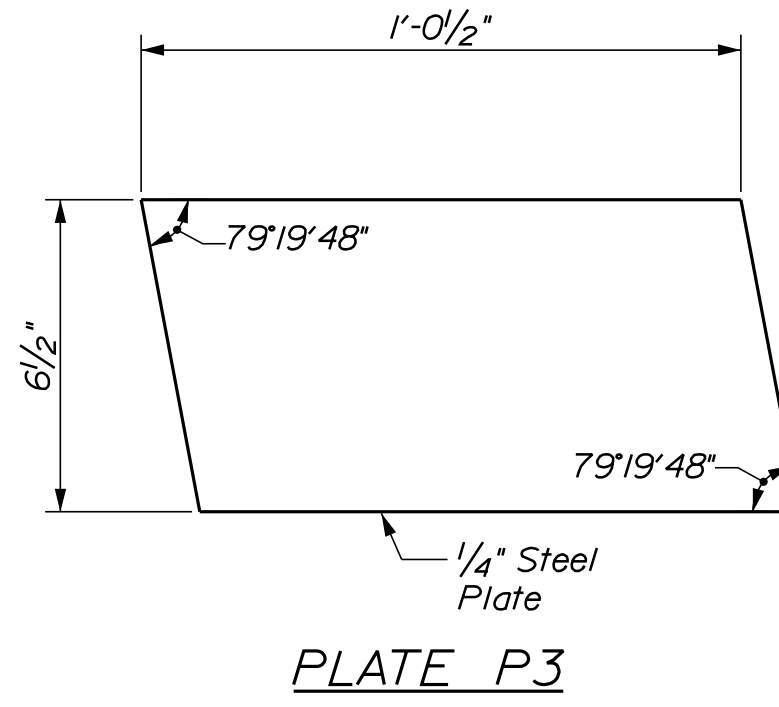
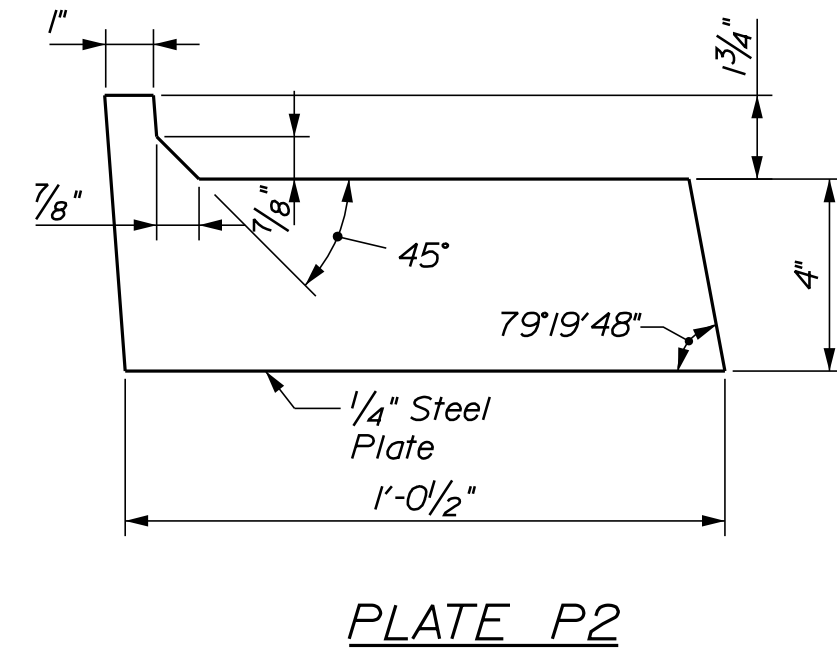
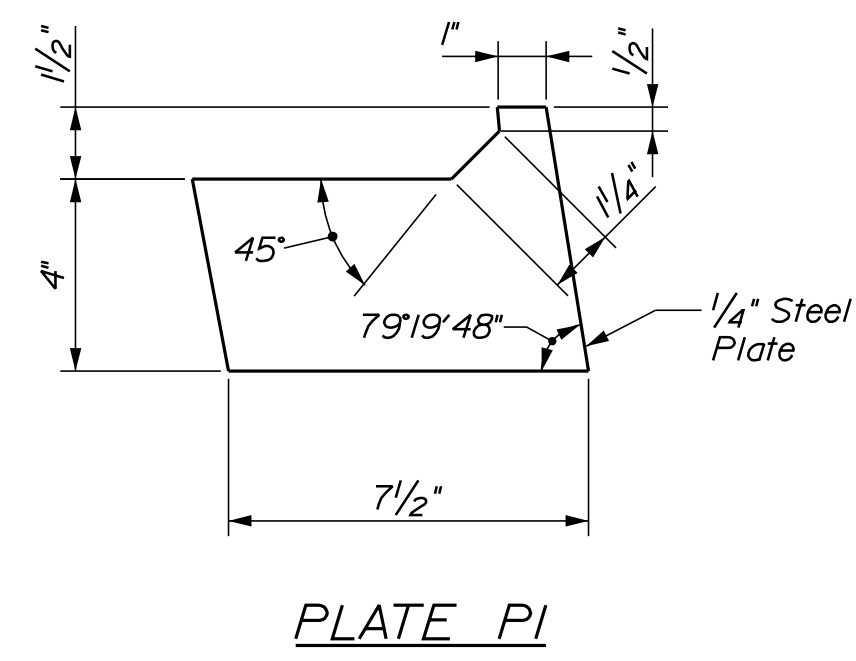
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 WILSON ROAD UNDERPASS  
 AT MM 2.0 IN YORK, ME  
 BRIDGE JOINT MODIFICATIONS (1 OF 2)

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **69**  
**69 OF 117**

Date: 1/14/2022



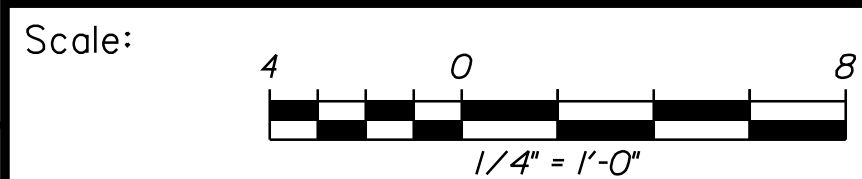
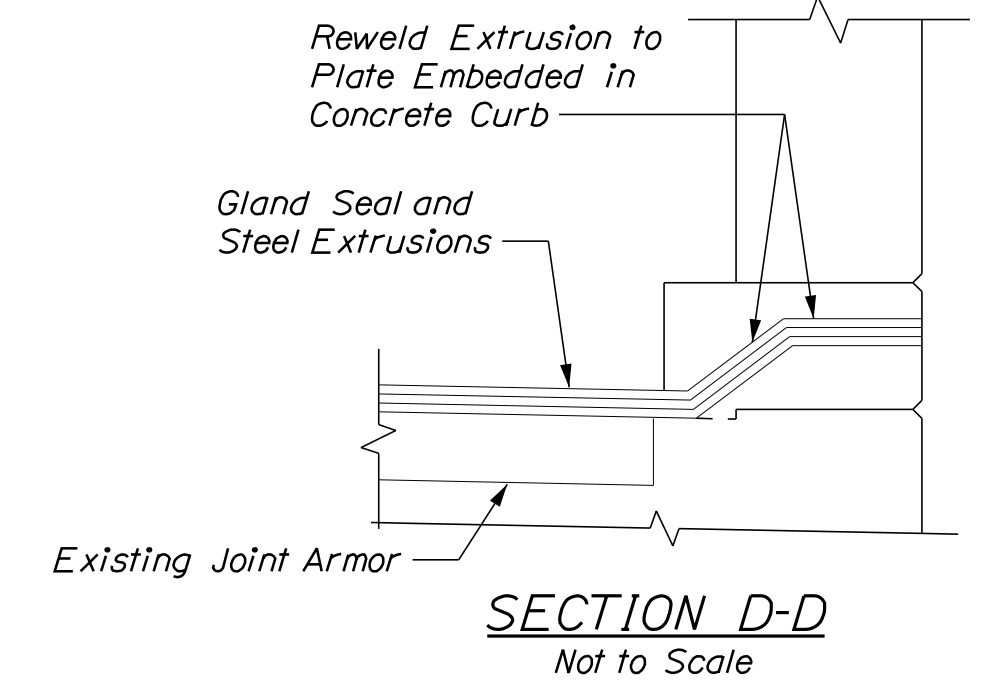
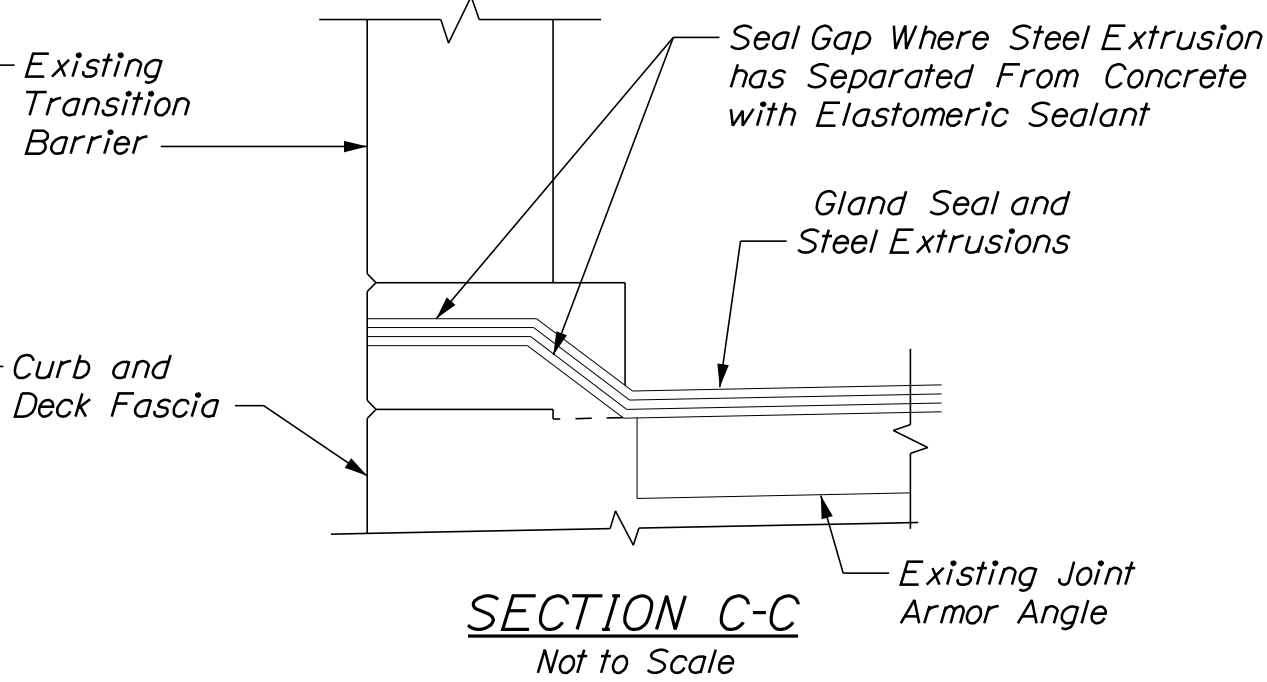
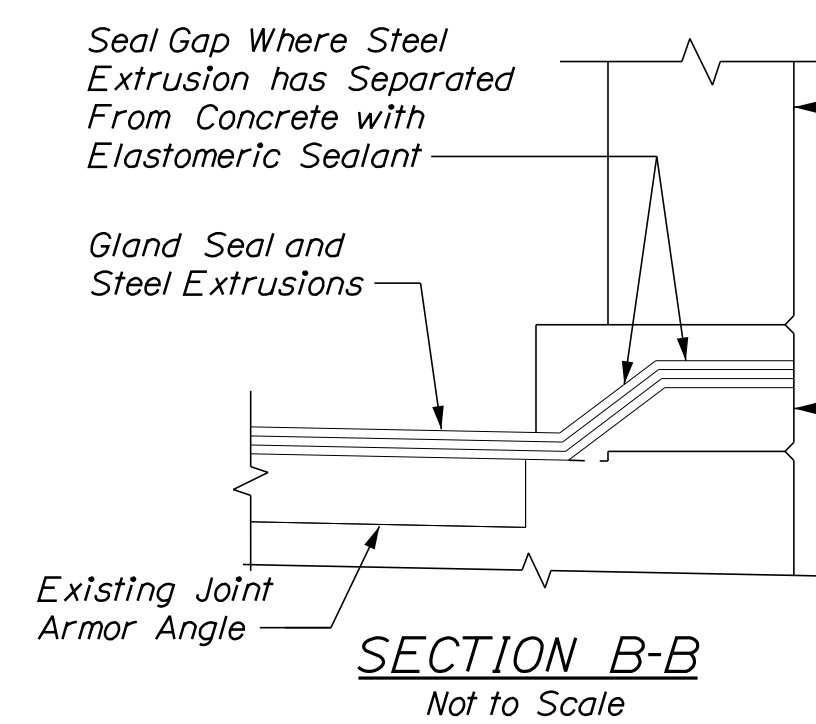
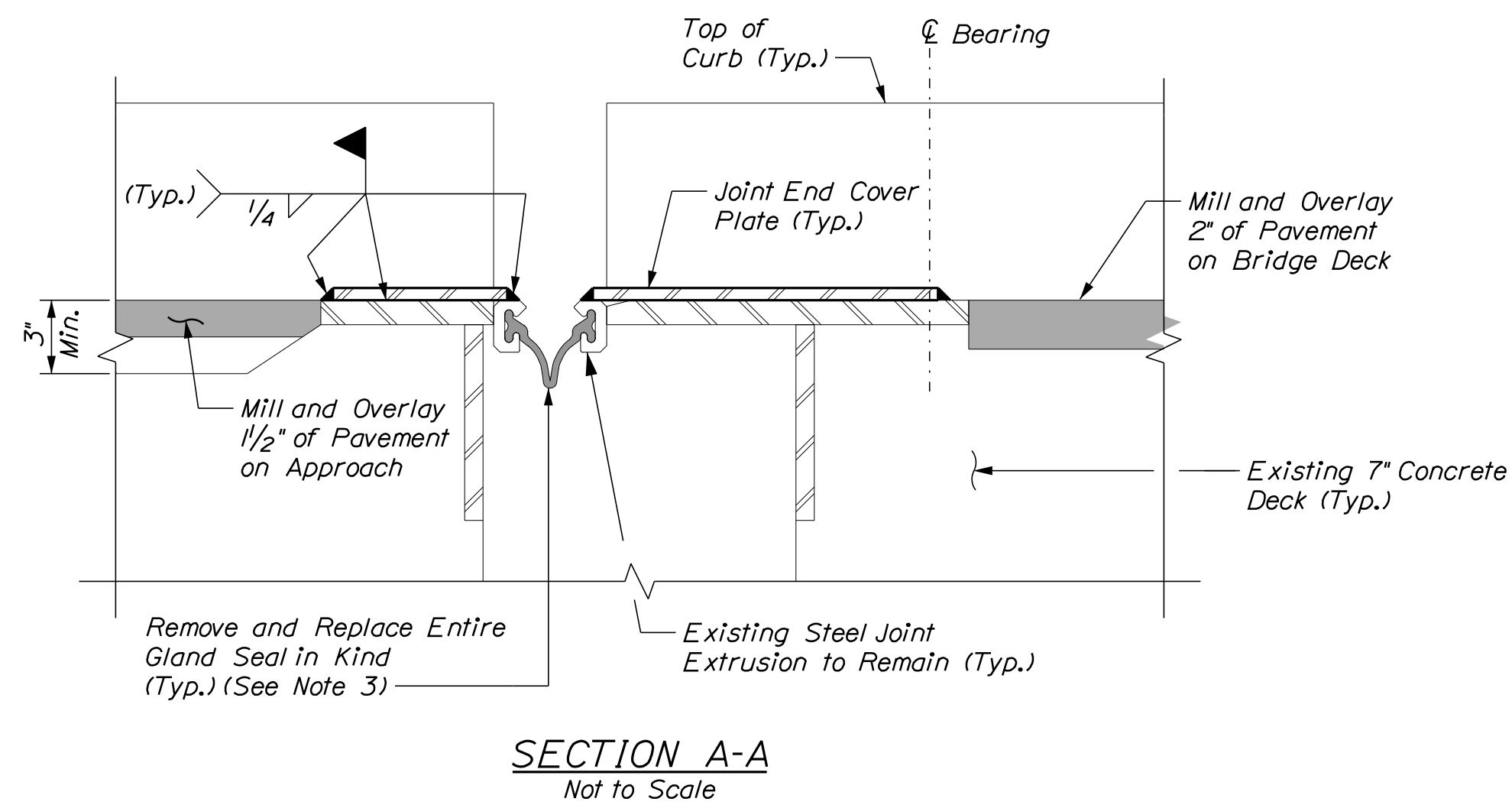
**JOINT END COVER PLATE DETAILS**

**NOTES:**

1. All labor, equipment, and material to complete the installation of the joint end cover plates shall be paid for under Item 530.2407, Bridge Joint Steel modification.
2. All labor, equipment, and material to complete the removal and installation of the new gland seal shall be paid for under Item 520.50 Remove and Replace Gland Seal.


**SHEET NOTE:**

1. See Bridge Joint Modifications Sheet 1 of 2 for locations of sections and joint end cover plates.



No.	Revision	By	Date

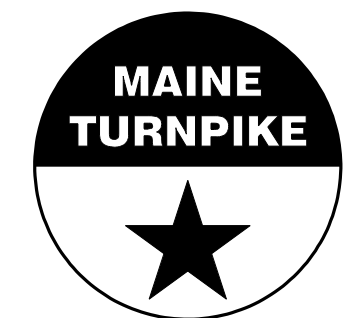
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

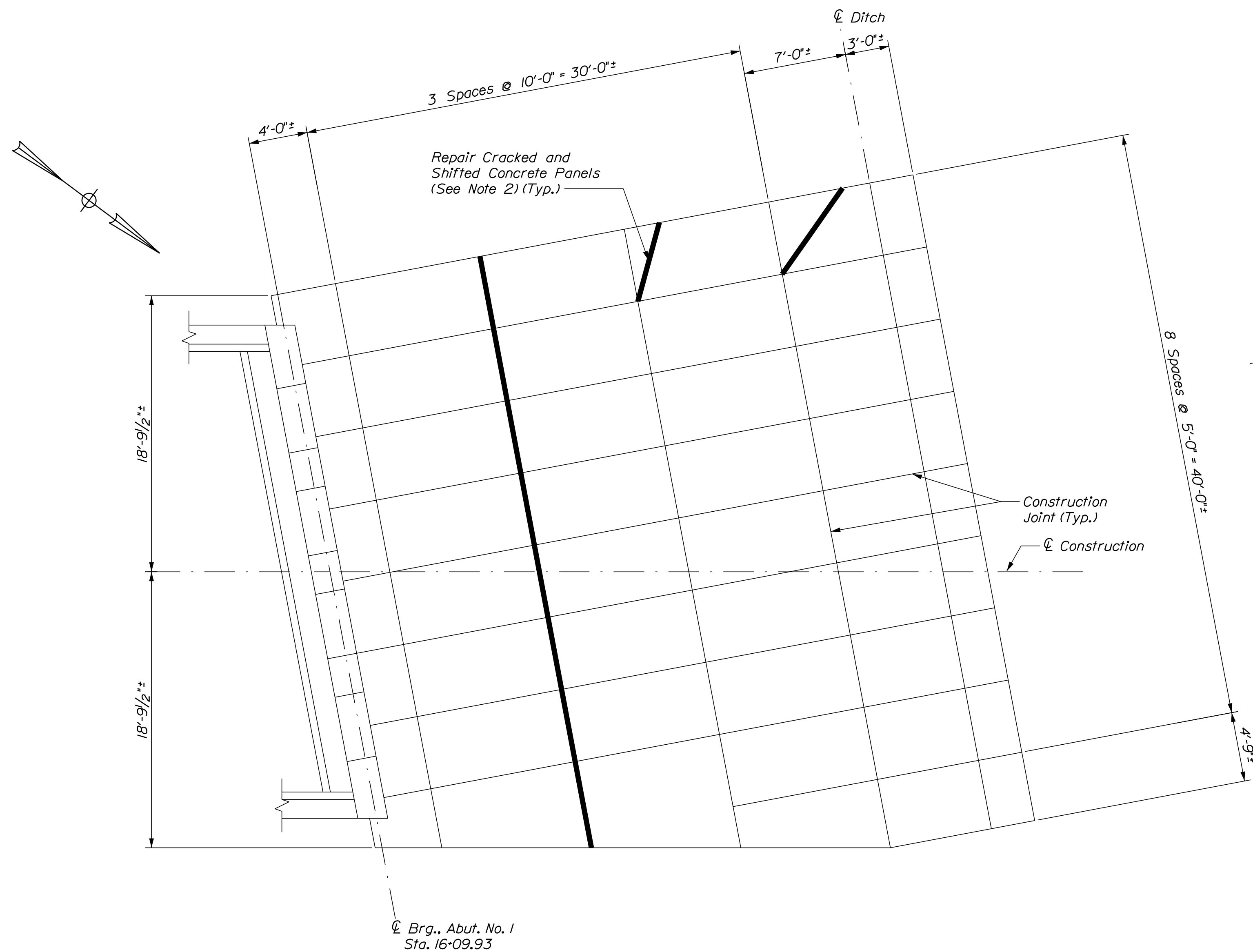
MTA PROJECT NO. 2022.04  
 WILSON ROAD UNDERPASS  
 AT MM 2.0 IN YORK, ME  
 BRIDGE JOINT MODIFICATIONS (2 OF 2)

VHB: 55345.00  
 CONTRACT: 2022.04

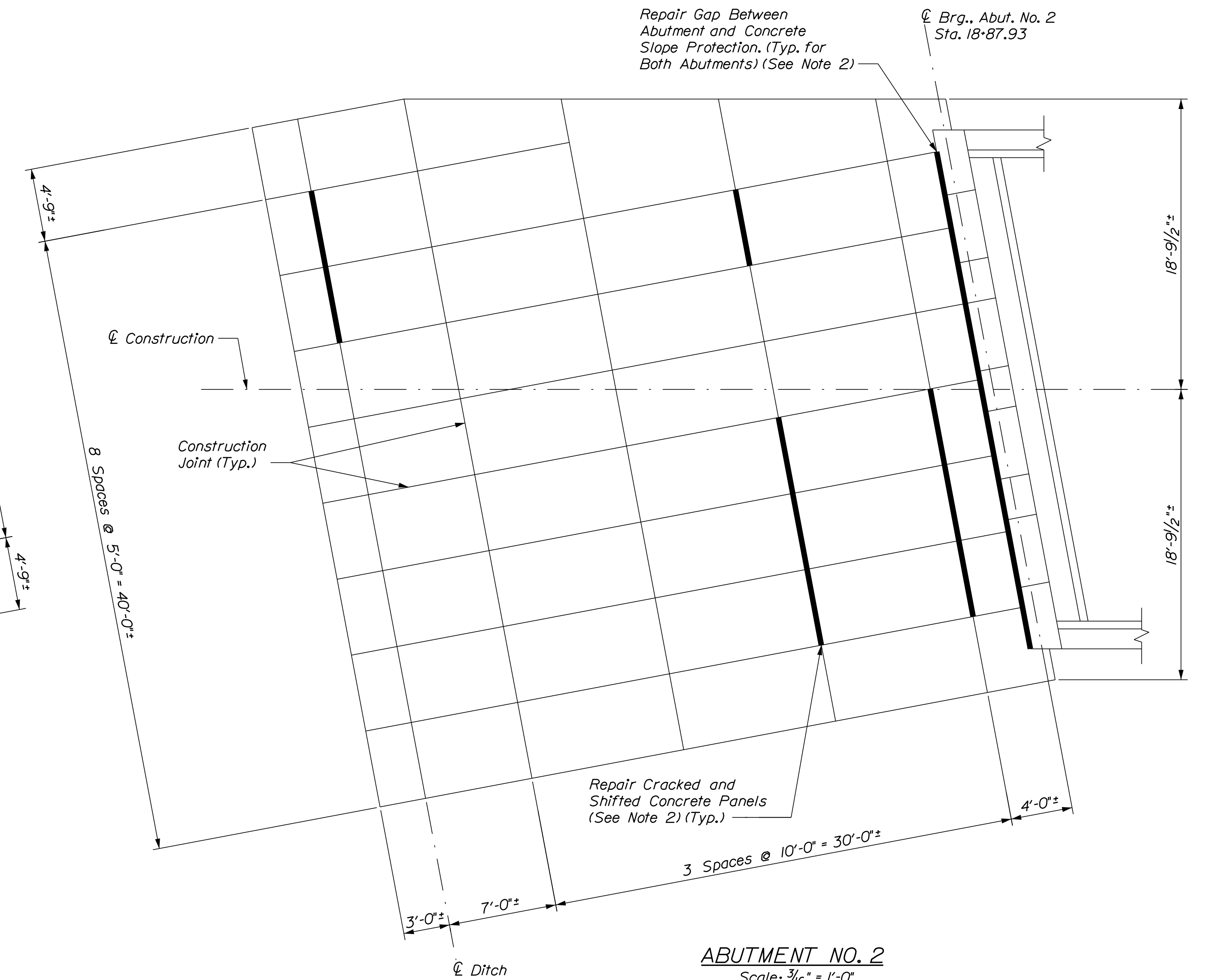
SHEET NUMBER: 70  
 70 OF 117

Filename: ...070\_Brg-Joint-Repair\_2.dgn

Date: 1/14/2022



**ABUTMENT NO. 1**  
Scale: 3/16" = 1'-0"



**ABUTMENT NO. 2**  
Scale: 3/16" = 1'-0"

**NOTES**


- Existing Slope Protection dimensions may vary. Contractor shall field verify dimension prior to panel replacement.
- Repair cracked and shifted concrete slope protection panels as directed by the resident. Repair Material shall be in accordance with Supplemental Specification 518. This work shall be paid for under Item 518.92 Slope Protection Repairs.

Filename: ...071\_Slope.dgn

Scale: 1 0 15  
3/16" = 1'-0"

No.	Revision	By	Date

Designed by:



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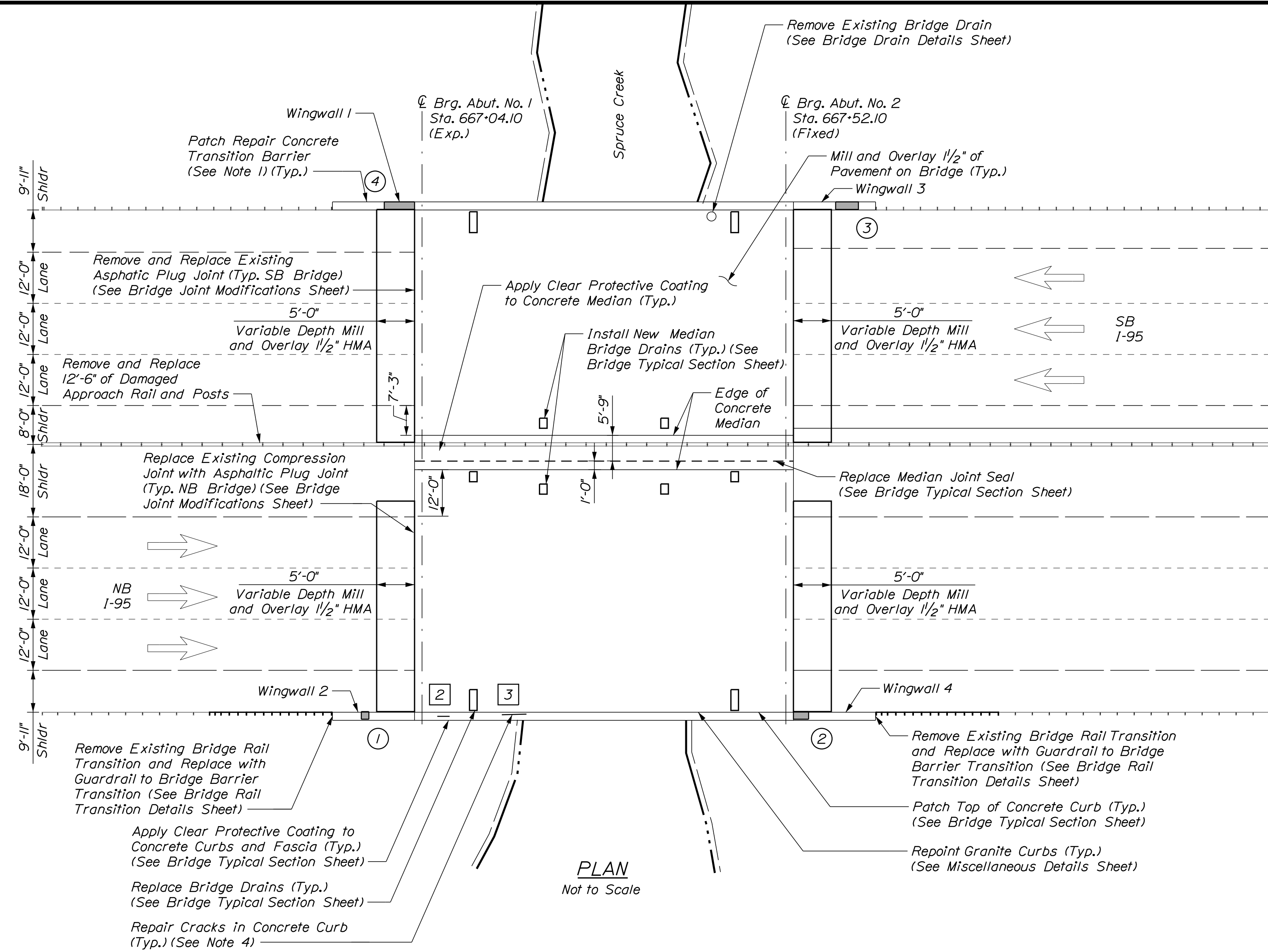
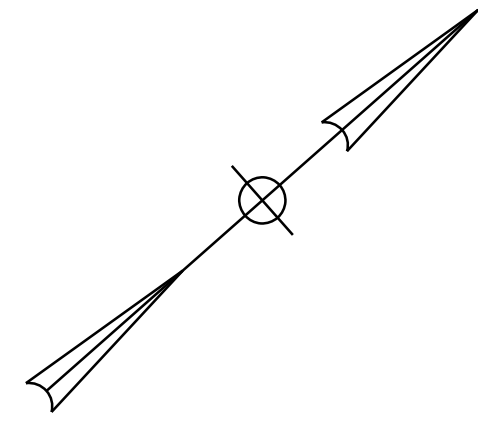
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
WILSON ROAD UNDERPASS  
AT MM 2.0 IN YORK, ME  
SLOPE PROTECTION REPAIRS

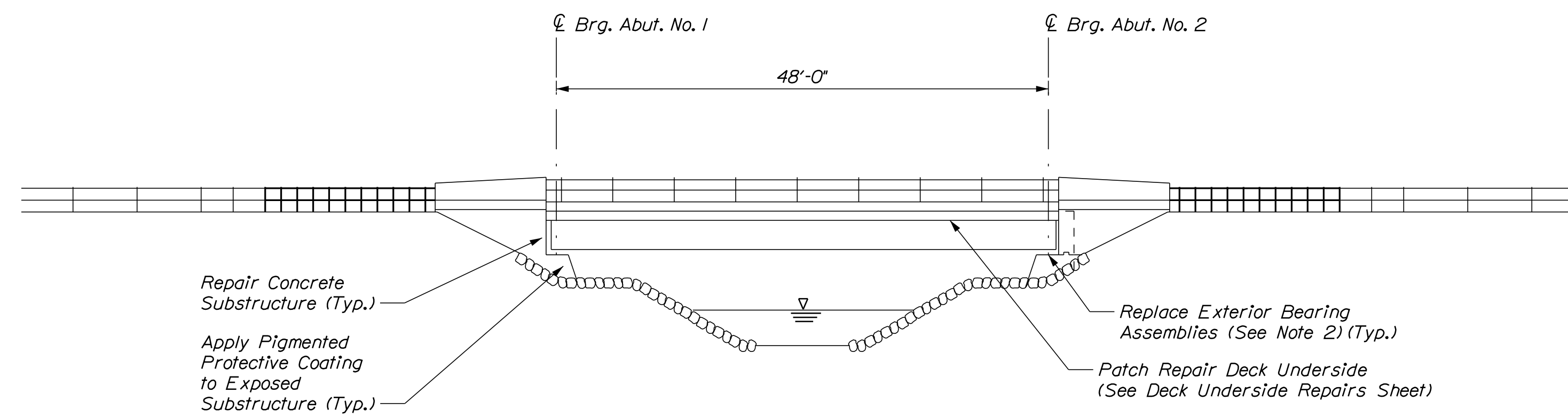
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 71  
71 OF 117

Date: 1/14/2022



PLAN  
Not to Scale



ELEVATION  
Not to Scale

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF/LF)**

Transition Barrier Repairs	15 *
* Includes 5 S.F. Additional Repair Quantity As A Contingency	
Epoxy Injection Crack Repair	10 **
** Includes 5 L.F. Additional Repair Quantity As A Contingency	

**NOTES**

1. Transition barrier concrete repairs shall be paid for under Item 518.10 Abutment Repairs.
2. Replace entire bearing assembly in kind on exterior corners of each abutment, 4 bearings total. Bearings shall be replaced and set prior to any expansion joint and pavement work. For bearing details see Bearing Details Sheets.
3. No equipment operation, mechanical excavation or storage of equipment or materials shall be permitted in wetlands or below the high tide mark.
4. Crack repairs to the concrete curb shall be paid for under Item 518.40, Epoxy Injection Crack Repair.

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.


**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

Scale: AS NOTED

No.	Revision	By	Date


Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
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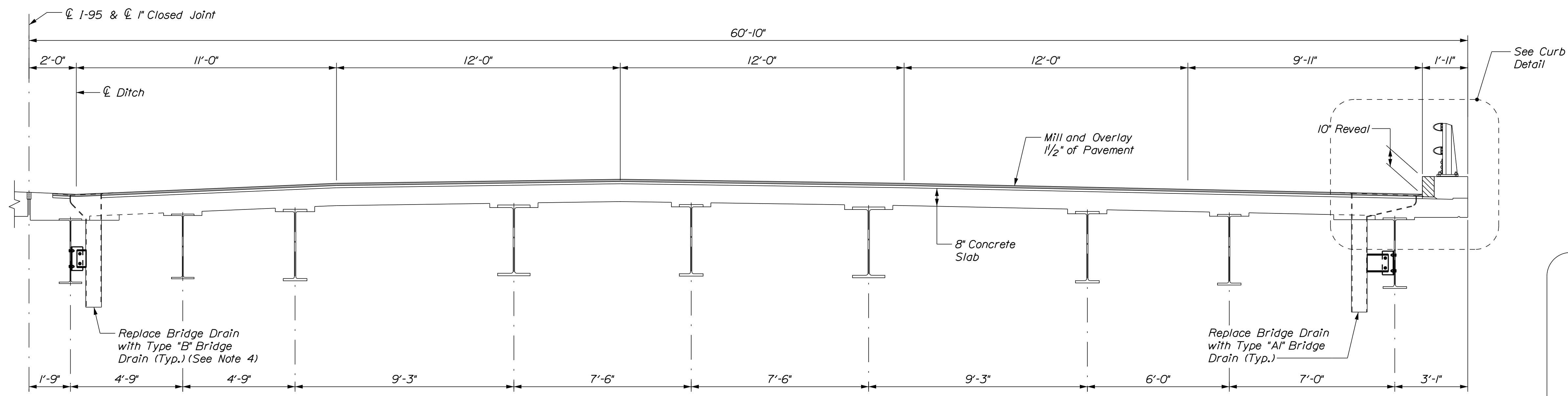
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 INTERSTATE 95 OVER SPRUCE CREEK  
 AT MM 2.20 IN YORK, ME  
 GENERAL PLAN AND ELEVATION

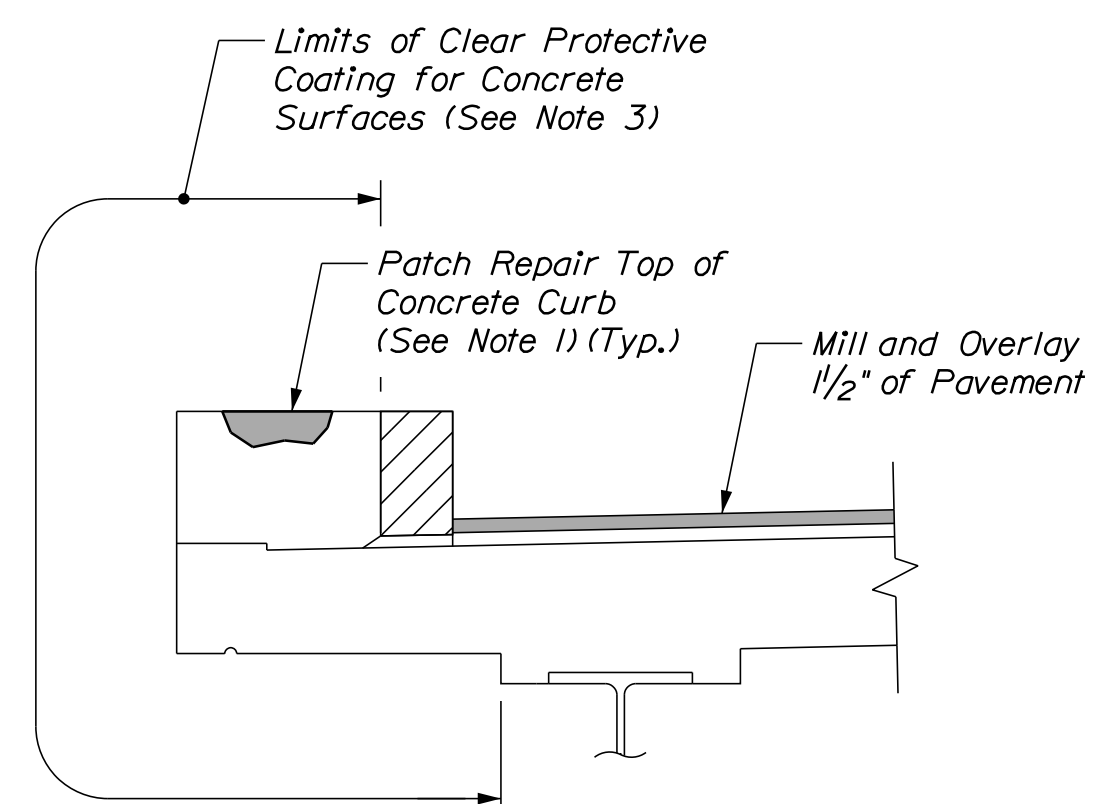
VHB: 55345.00 SHEET NUMBER: 72  
 CONTRACT: 2022.04 72 OF 117



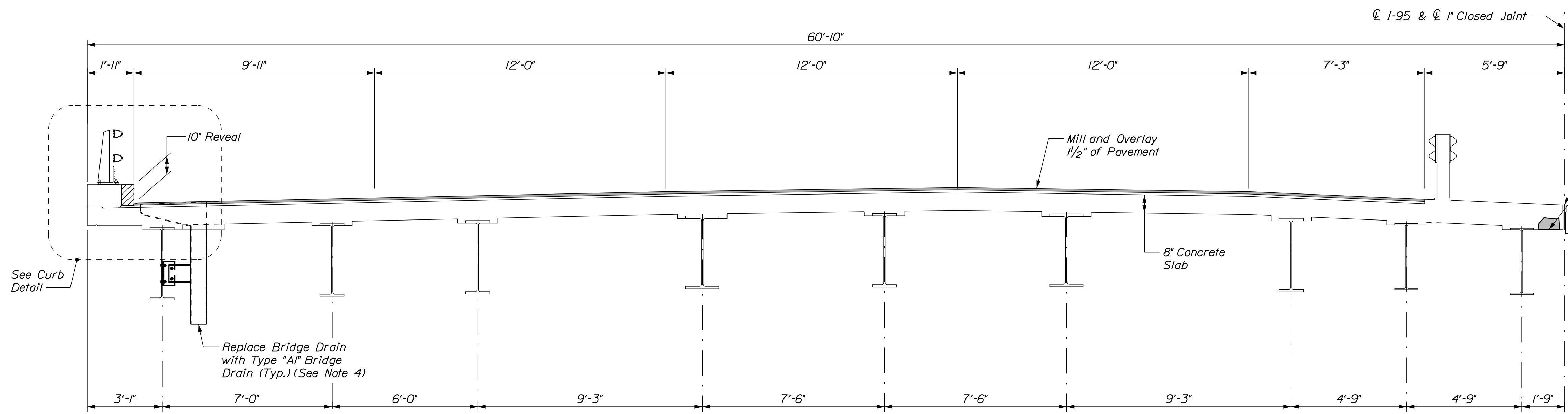
Date: 1/14/2022



**SUPERSTRUCTURE TYPICAL SECTION - NORTHBOUND I-95**  
Scale: 3/8" = 1'-0"



**CURB DETAIL**  
(Bridge Rail not Shown for Clarity)  
Scale: 3/4" = 1'-0"



**SUPERSTRUCTURE TYPICAL SECTION - SOUTHBOUND I-95**  
Scale: 3/8" = 1'-0"

**NOTES**

1. Patch repair divots on top of concrete curb by filling with a patch material in accordance with Supplemental Specification 518. Labor and Materials shall be incidental to the related 518 Items.
2. Replace Median Joint Seal with Item 520.324, Expansion Device - Silicone Coated and Pre-Compressed Seal. See Deck Underside Repairs sheet for details.
3. Limits of clear protective coating shall be paid for under Item 512.202, Clear Protective Coating for Concrete Surfaces.
4. All labor, material, and equipment required to remove and install the bridge drains shall be paid for under Items 502.702, Replace Bridge Drain (Type A1) and Item 502.703, Replace Bridge Drain (Type B) as noted in the plans.

**SHEET NOTE**


1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

Filename: ...073\_BTyp\_4.dgn

Scale: AS NOTED

No.	Revision	By	Date

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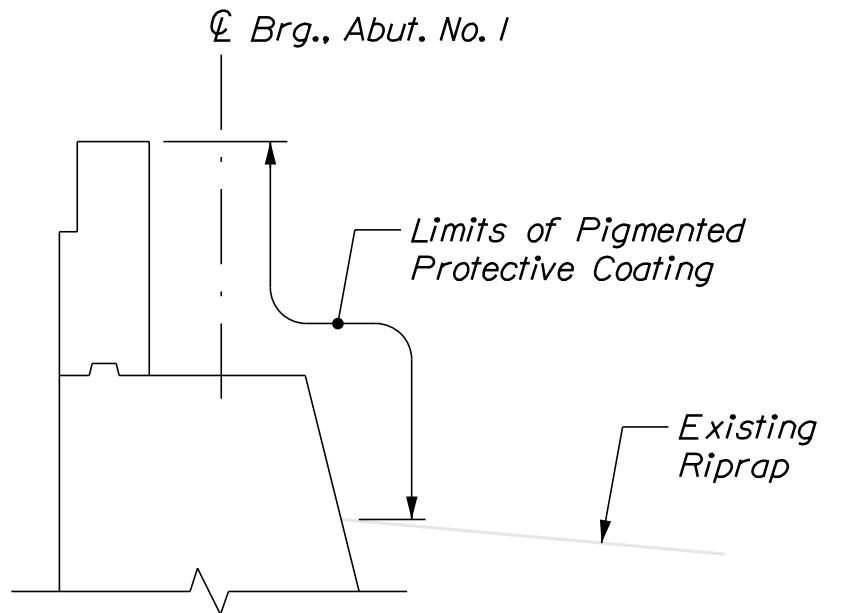
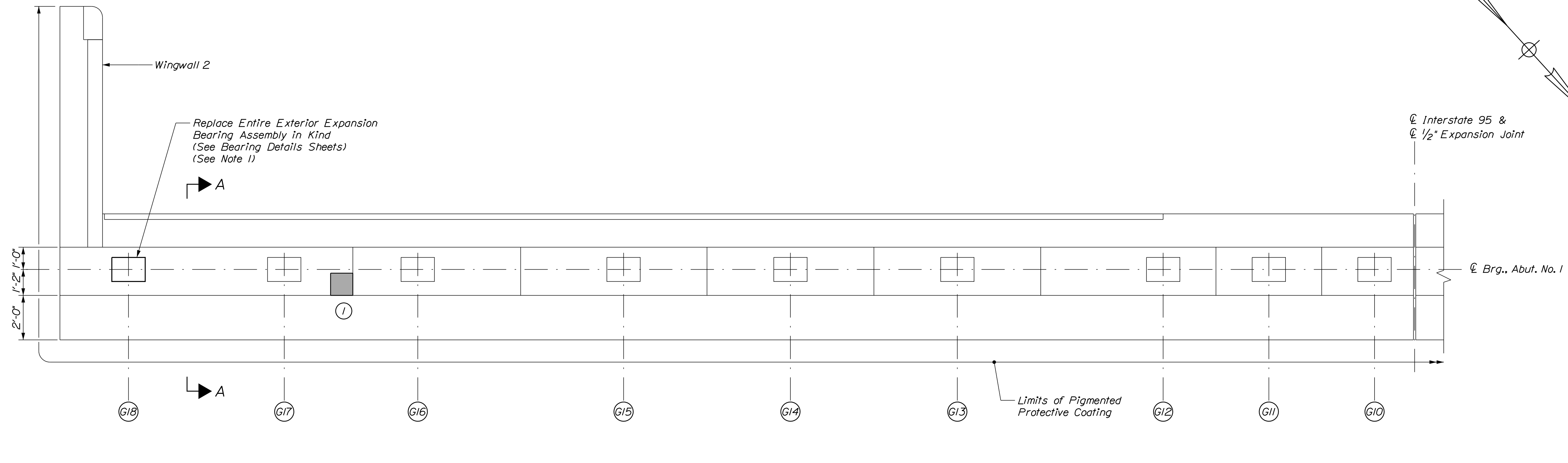
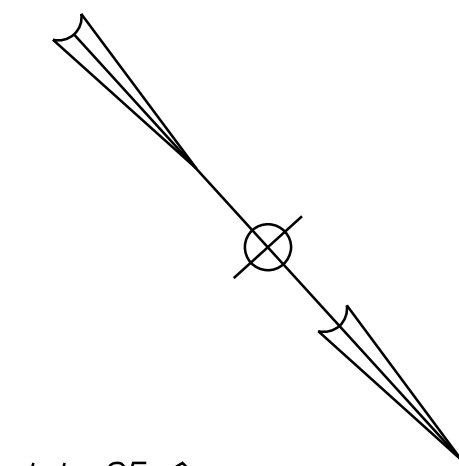
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
BRIDGE TYPICAL SECTION

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 73  
73 OF 117

Date: 1/14/2022



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

SECTION A-A  
Not to Scale

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Abutment Repairs 20\*  
\* Includes 6 S.F. Additional Repair Quantity As A Contingency

**NOTE**

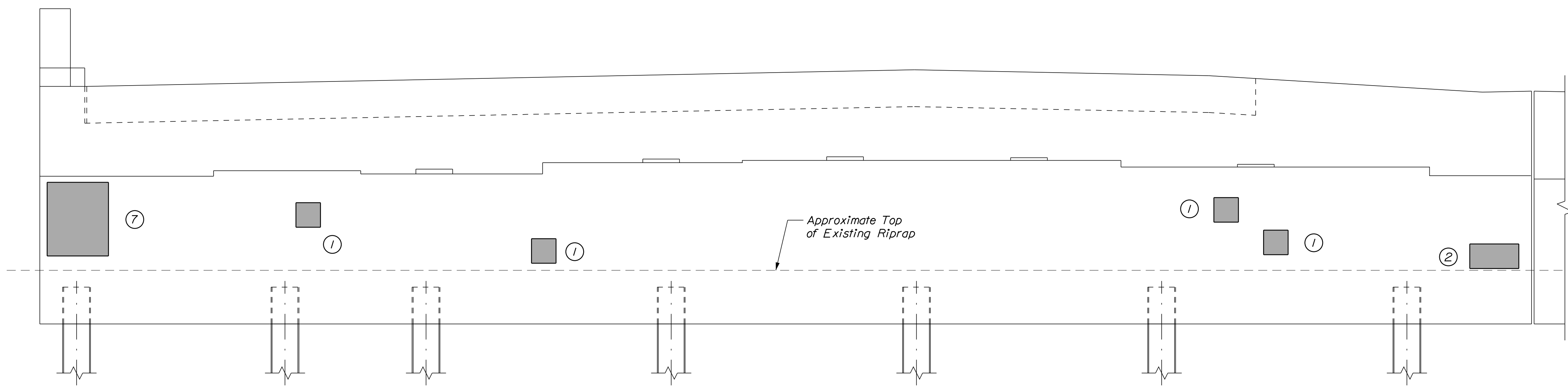
1. All labor, equipment, and materials necessary to jack and replace the bearings shall be paid for under 524.7212 Jacking Existing Superstructure (Spruce Creek) and Item 523.521 Bearing Removal and Installation, respectively. See Miscellaneous Details sheet for information on resetting the bearings.

**SHEET NOTE**

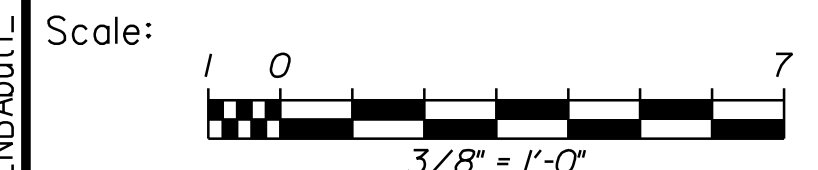
1. For Concrete Repair Notes and Details see Concrete Repair Typical Details sheet.

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair



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



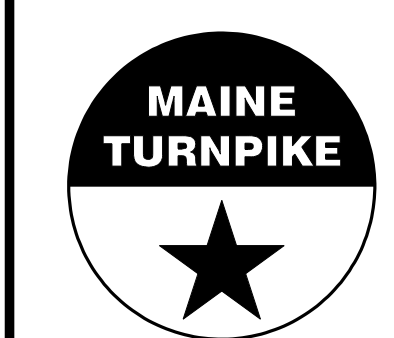
No.	Revision	By	Date

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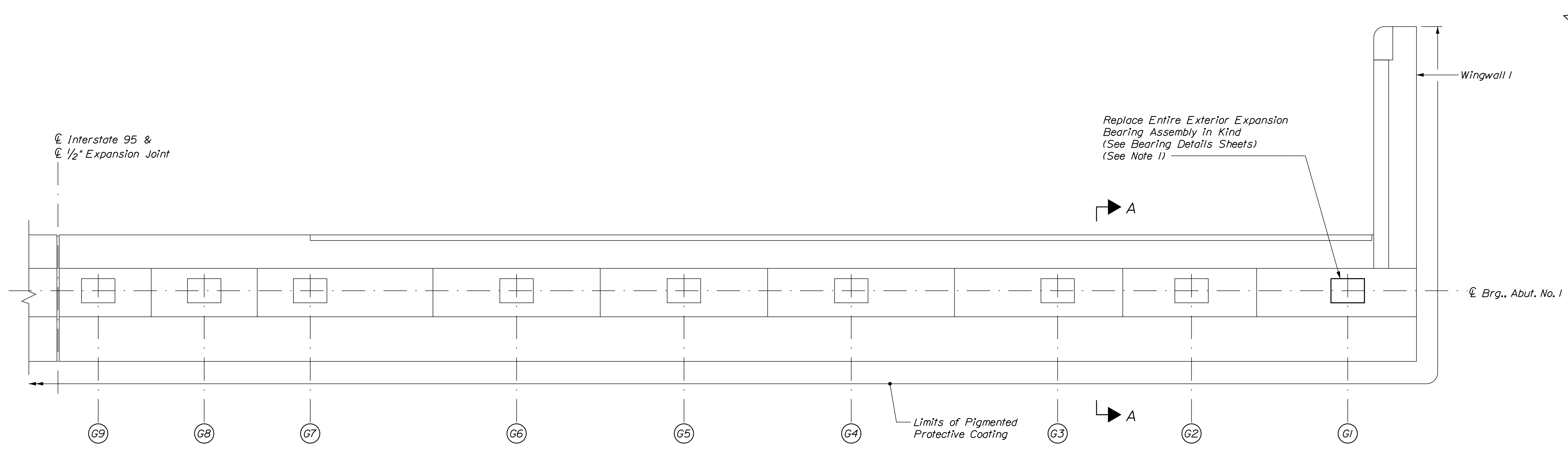
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
NB ABUTMENT NO. 1 REPAIRS

Filename: ...074-NBAbut1\_4.dgn

Date: 1/14/2022



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

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Abutment Repairs 15\*  
\* Includes 6 S.F. Additional Repair Quantity As A Contingency

**NOTE**

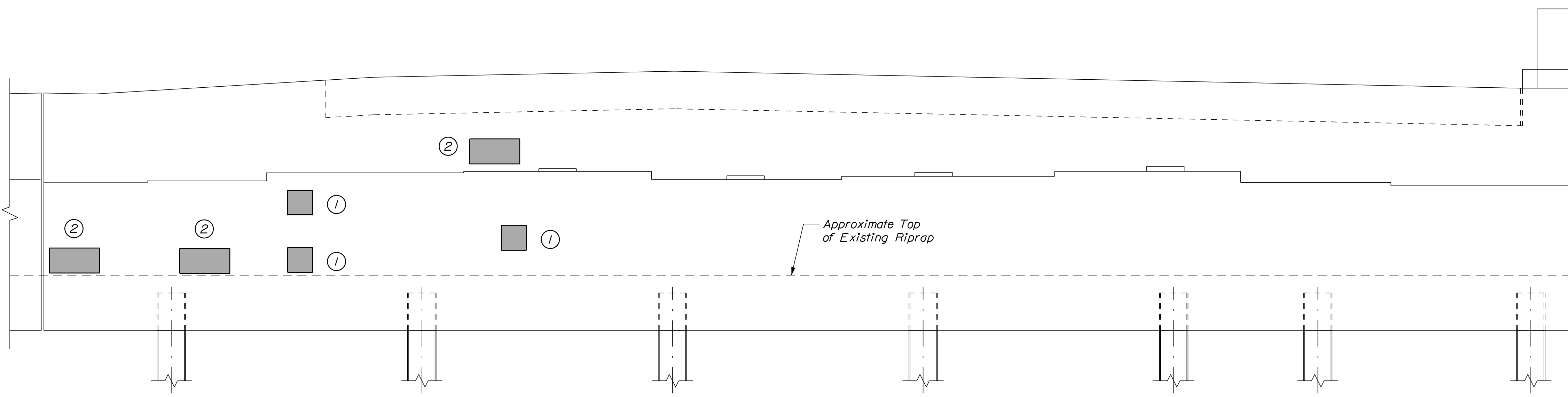
1. All labor, equipment, and materials necessary to jack and replace the bearings shall be paid for under 524.7212 Jacking Existing Superstructure (Spruce Creek) and Item 523.521 Bearing Removal and Installation, respectively. See Miscellaneous Details sheet for information on resetting the bearings.

**SHEET NOTES**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details sheet.  
2. For Section A-A see NB Abutment No. 1 Repairs sheet.

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair



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

Scale:

No.	Revision	By	Date

Designed by:

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	By	Date	
Designed	MEB	10/29/21	Checked
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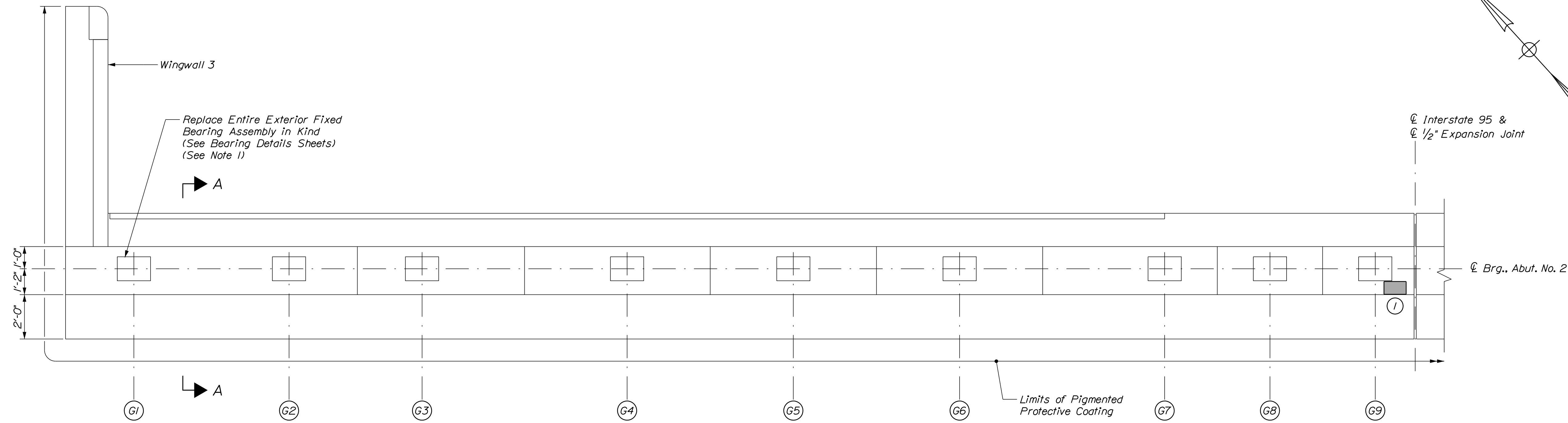
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
SB ABUTMENT NO. 1 REPAIRS

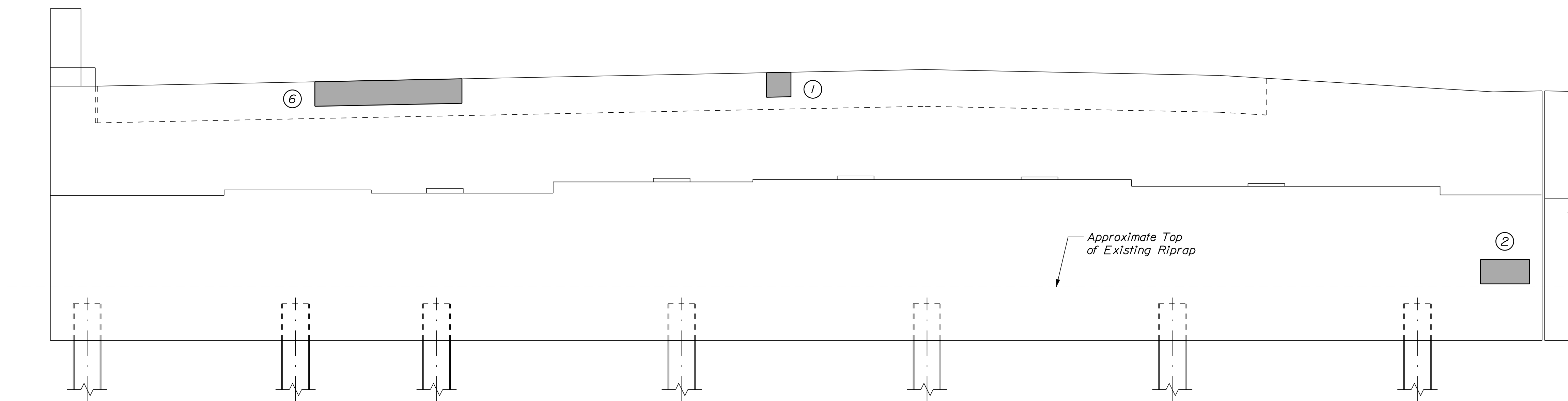
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CONTRACT: 2022.04      75 OF 117

Filename: ...\\075\_SBAbut1\_4.dgn

Date: 1/14/2022



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



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

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Abutment Repairs 15\*  
\* Includes 5 S.F. Additional Repair Quantity As A Contingency

**NOTE**

1. All labor, equipment, and materials necessary to jack and replace the bearings shall be paid for under 524.7212 Jacking Existing Superstructure (Spruce Creek) and Item 523.521 Bearing Removal and Installation, respectively. See Miscellaneous Details sheet for information on resetting the bearings.

**SHEET NOTES**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details sheet.  
2. For Section A-A see NB Abutment No. 1 Repairs sheet.

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

Filename: ... \076\_SBAbut2\_4.dgn

Scale:

No.	Revision	By	Date

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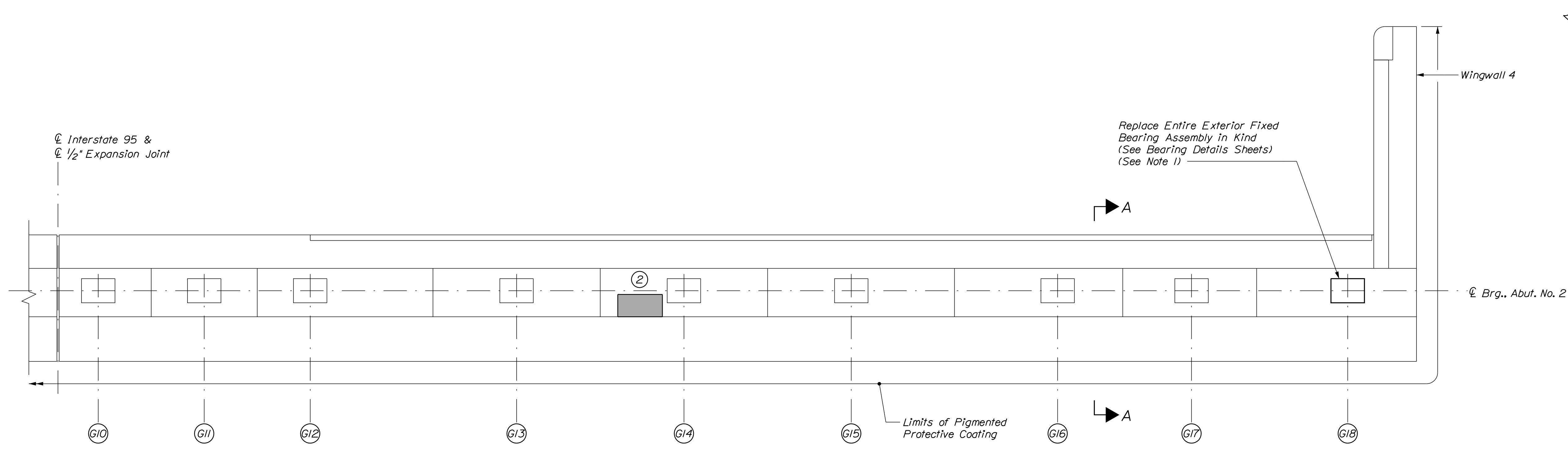
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
SB ABUTMENT NO. 2 REPAIRS

VHB: 55345.00      SHEET NUMBER: 76  
CONTRACT: 2022.04      76 OF 117

Date: 1/14/2022



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

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Abutment Repairs 20\*  
\* Includes 4 S.F. Additional Repair Quantity As A Contingency

**NOTE**

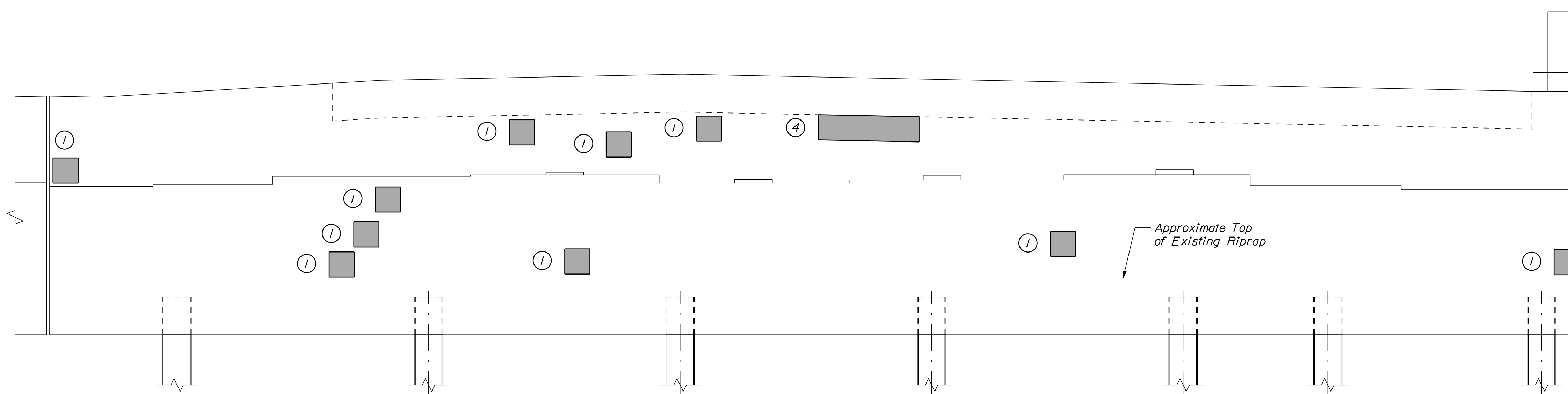
1. All labor, equipment, and materials necessary to jack and replace the bearings shall be paid for under 524.7212 Jacking Existing Superstructure (Spruce Creek) and Item 523.521 Bearing Removal and Installation, respectively. See Miscellaneous Details sheet for information on resetting the bearings.

**SHEET NOTES**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details sheet.  
2. For Section A-A see NB Abutment No. 1 Repairs sheet.

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair



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

Filename: ... \077\_NBAbut2\_4.dgn

Scale:			
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
Designed	MEB	10/29/21	Checked
			GME 10/29/21
Drawn	DPD	10/29/21	In Charge of
			TSB 10/29/21

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

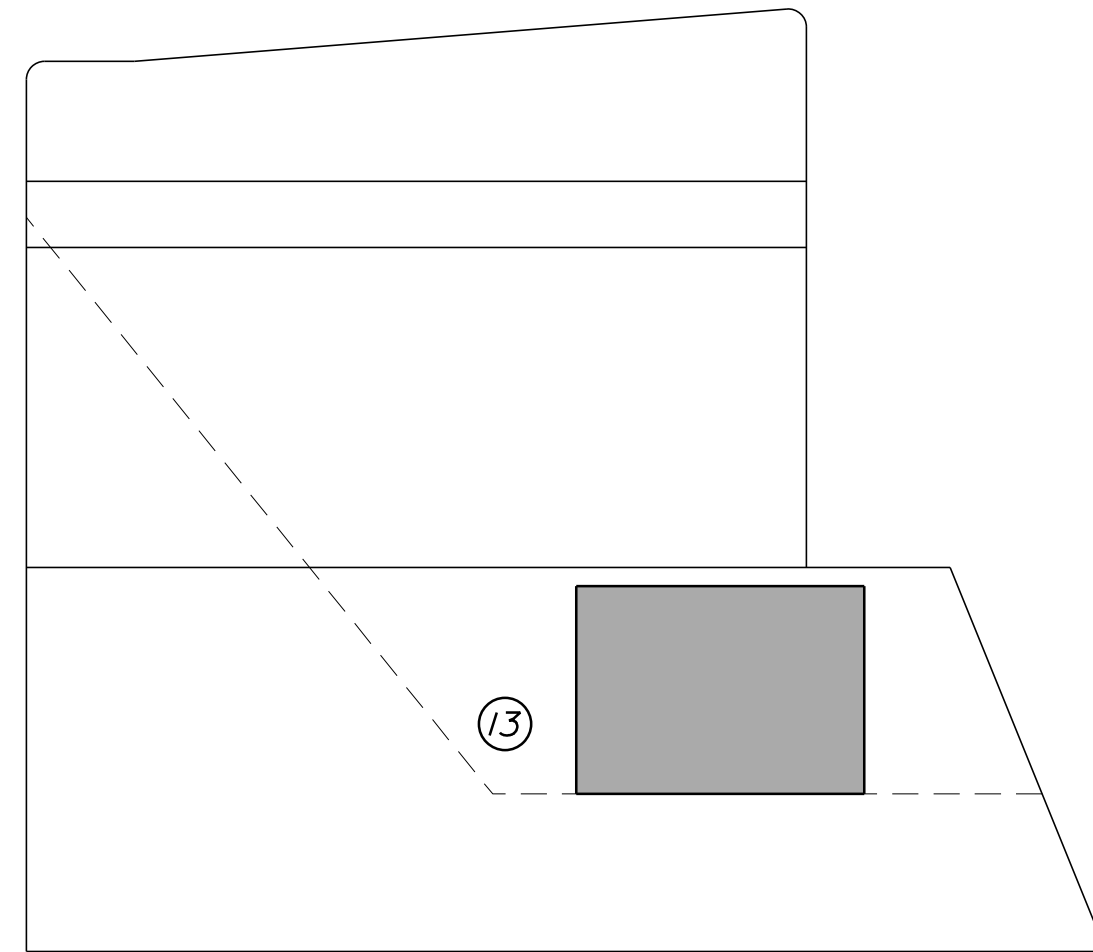
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

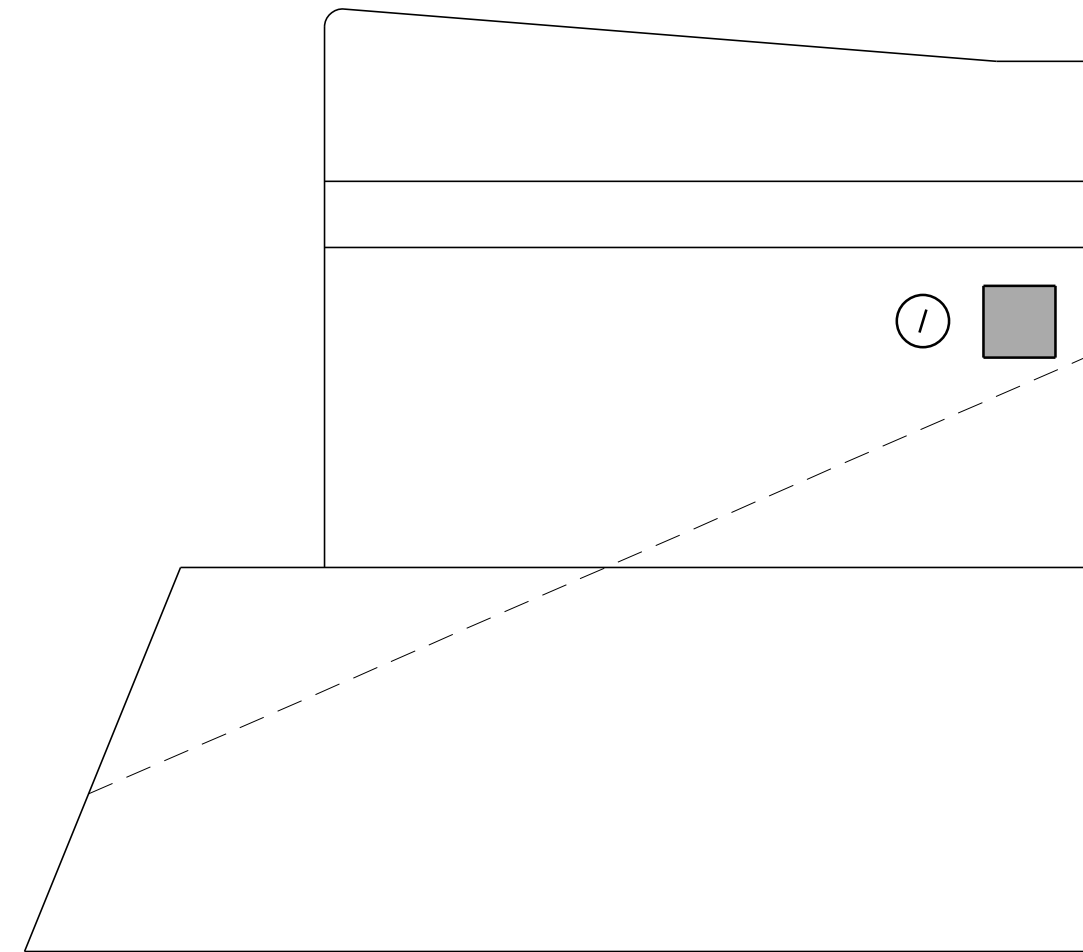
MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
NB ABUTMENT NO. 2 REPAIRS

VHB: 55345.00      SHEET NUMBER: 77  
CONTRACT: 2022.04      77 OF 117

Date: 1/14/2022

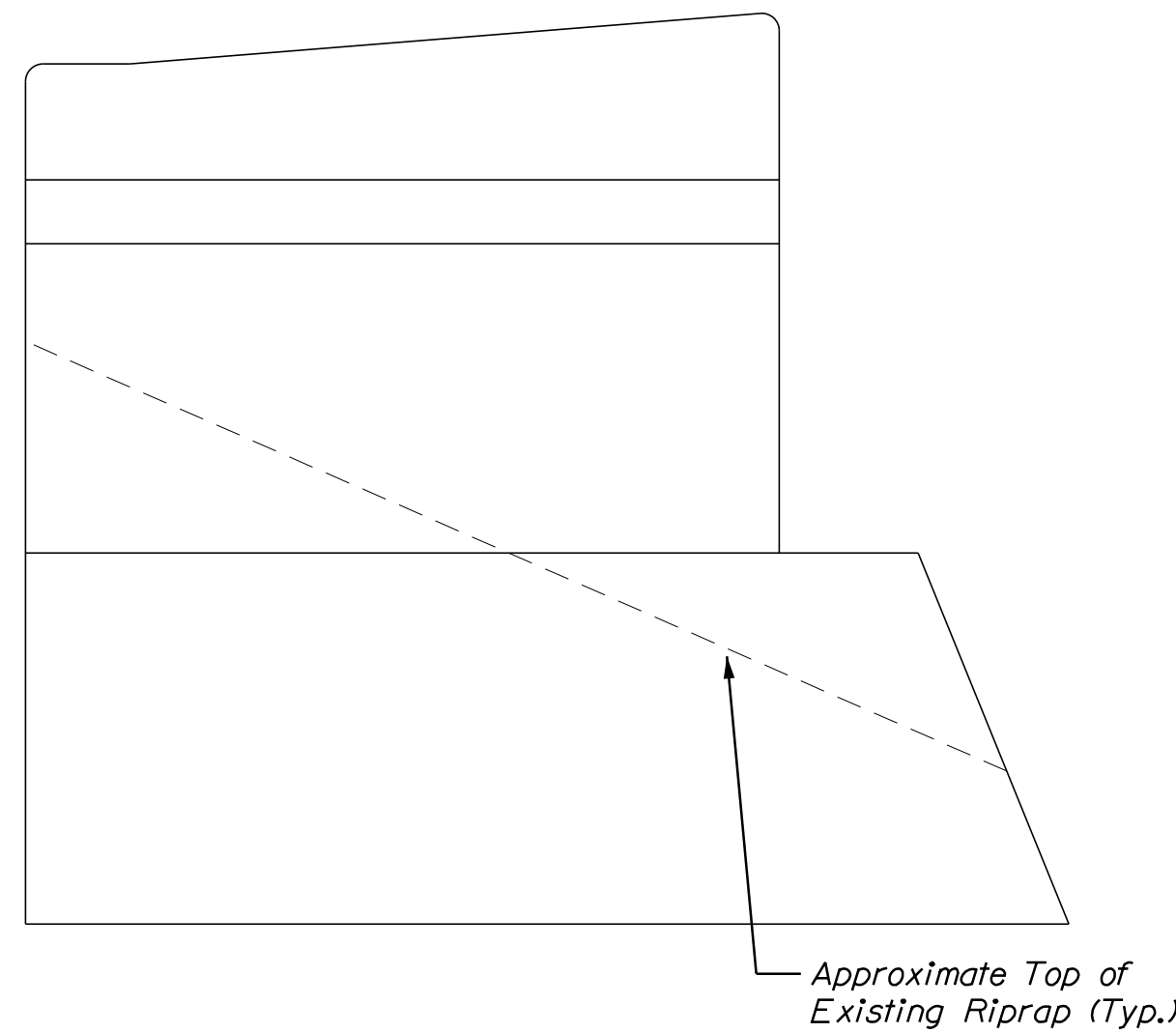


**WINGWALL 2**  
(SOUTHEAST)

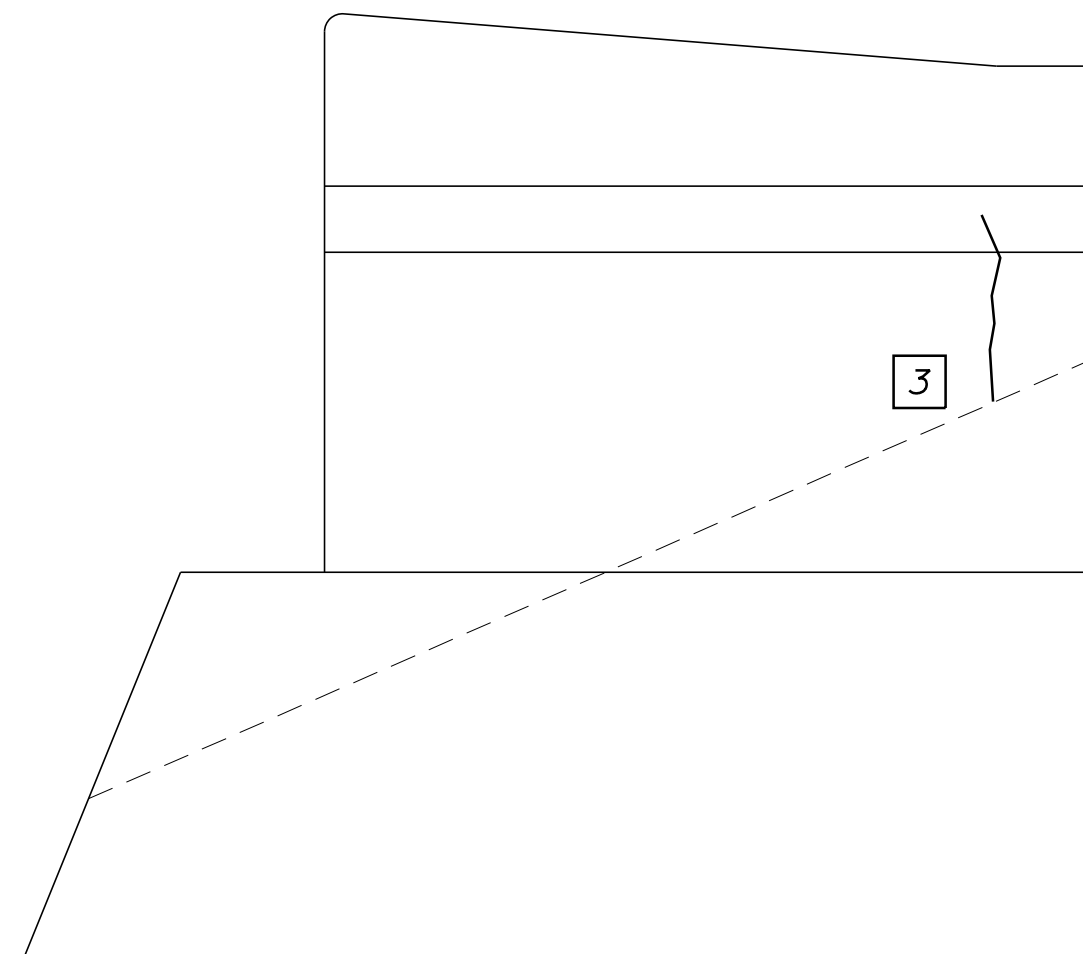


**WINGWALL 1**  
(SOUTHWEST)

**ABUTMENT NO. 1**  
**WINGWALL ELEVATIONS**  
Scale: 3/8" = 1'-0"



**WINGWALL 3**  
(NORTHWEST)



**WINGWALL 4**  
(NORTHEAST)

**ABUTMENT NO. 2**  
**WINGWALL ELEVATIONS**  
Scale: 3/8" = 1'-0"

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF/LF)**

Surface Abutment Repairs	20*
* Includes 6 S.F. Additional Repair Quantity As A Contingency	
Epoxy Injection Crack Repair	5**
** Includes 2 L.F. Additional Repair Quantity As A Contingency	

**SHEET NOTE**

1. For Crack and Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

**KEY**


- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

Filename: ... \078\_WW\_4.dgn



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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South Portland, ME 04106  
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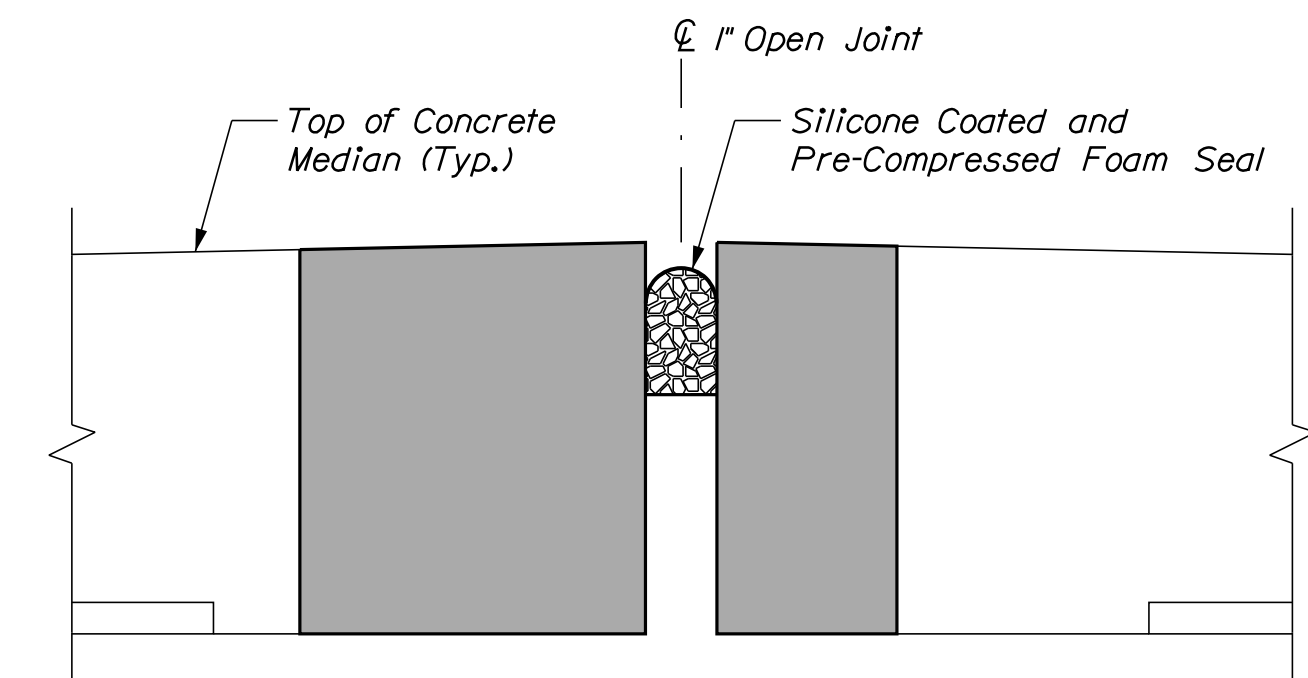
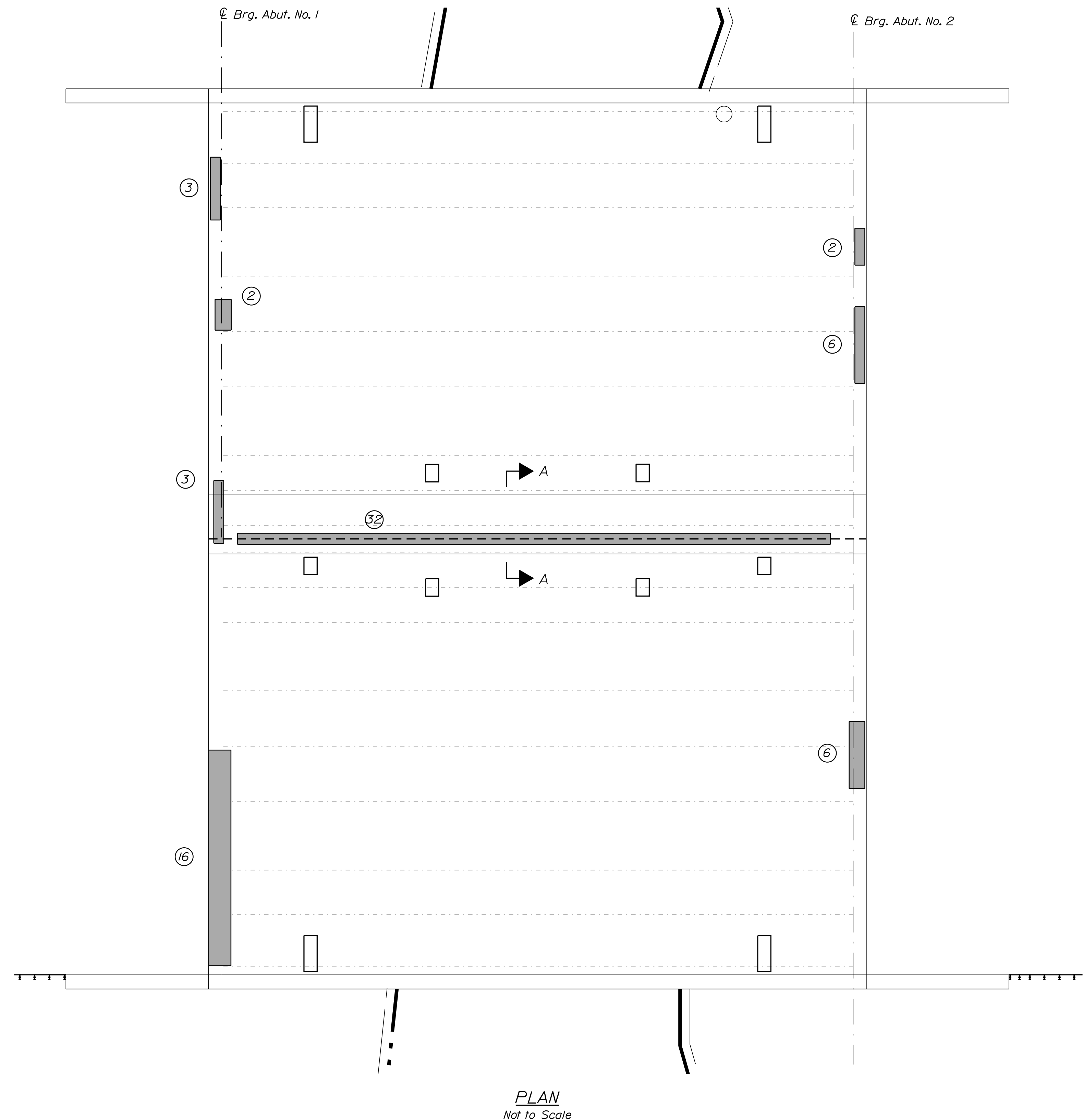
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
WINGWALL REPAIRS

VHB: 55345.00 SHEET NUMBER: 78  
CONTRACT: 2022.04 78 OF 117

Date: 1/14/2022



**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Overhead Surface Repairs 100\*  
\* Includes 30 S.F. Additional Repair Quantity As A Contingency

**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

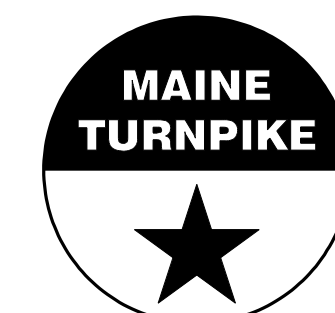
Filename: ... \079\_deckunder.dgn

Scale: AS NOTED

Designed by:



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
DECK UNDERSIDE REPAIRS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

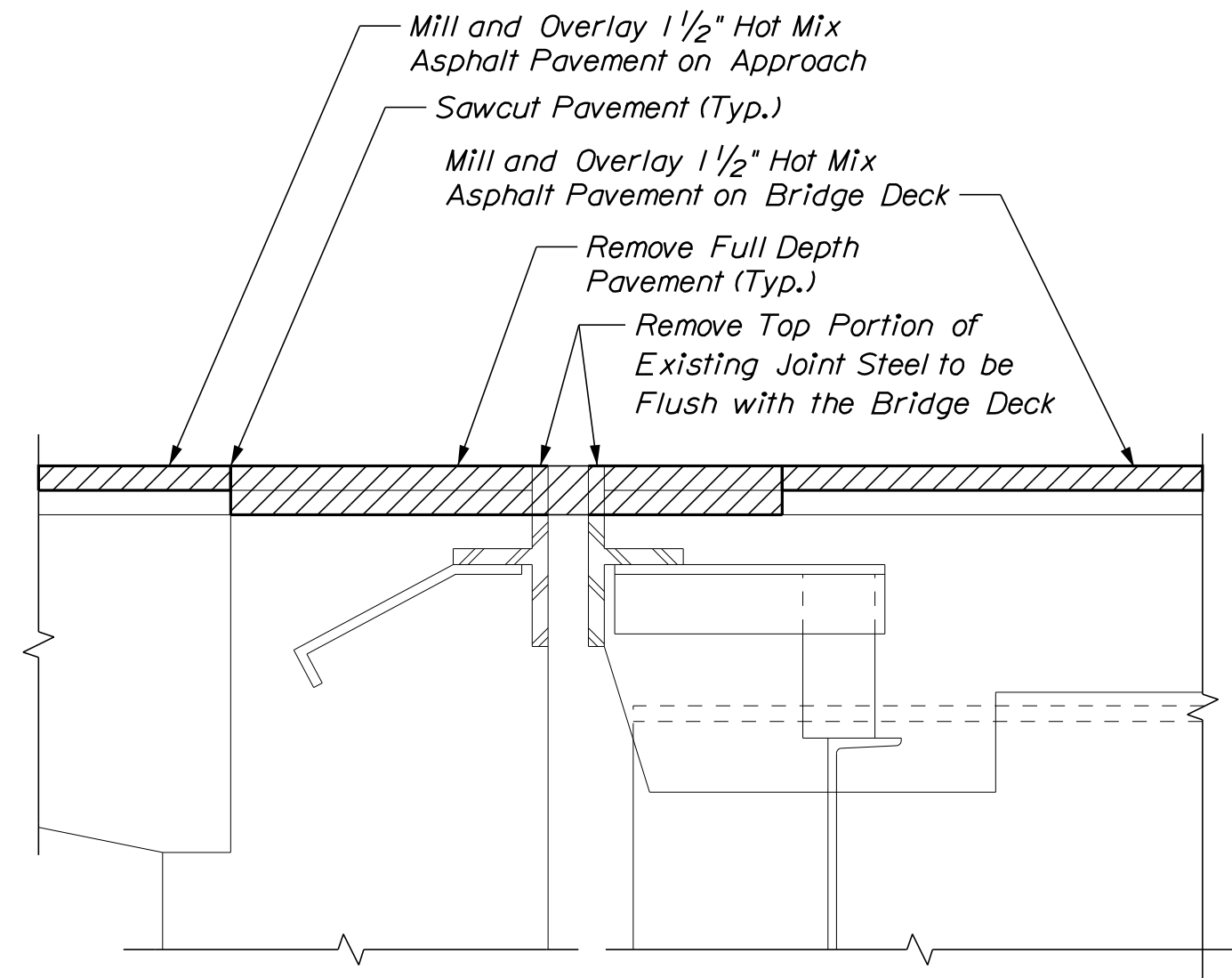
VHB: 55345.00

SHEET NUMBER: 79

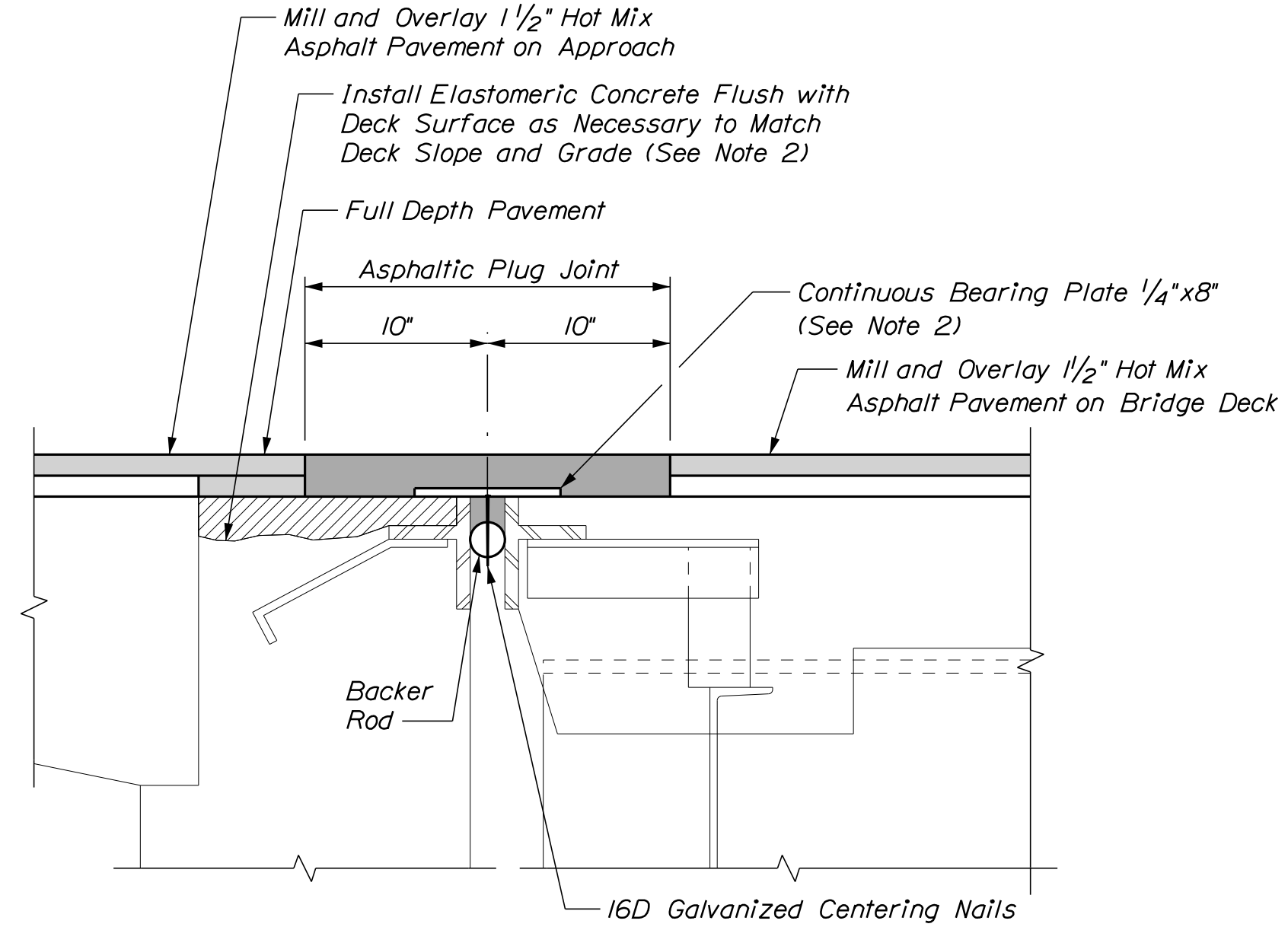
CONTRACT: 2022.04

79 OF 117

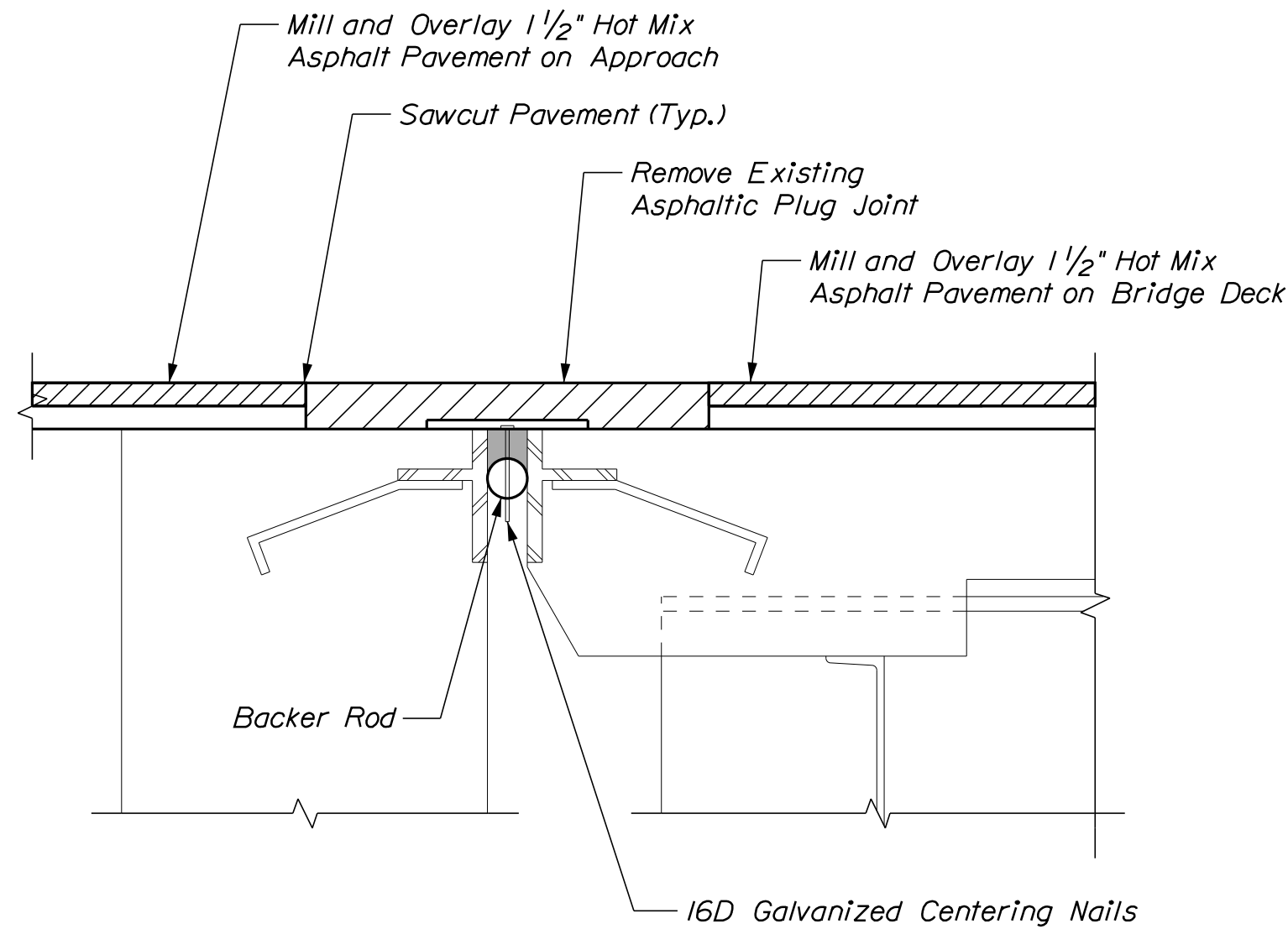
Date: 1/14/2022



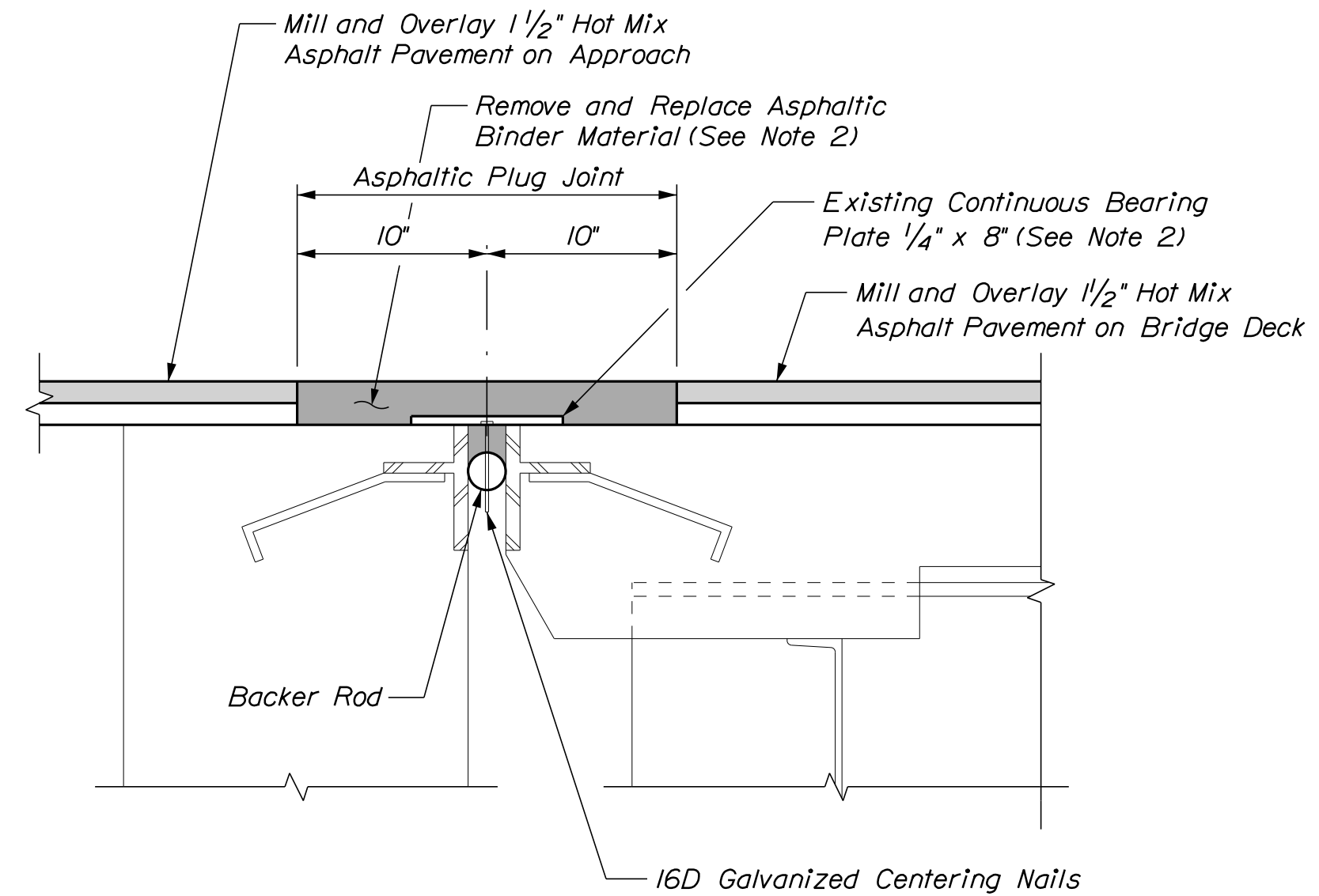
**EXISTING NB BRIDGE JOINT**  
Not to Scale



**PROPOSED NB BRIDGE JOINT**  
Not to Scale



**EXISTING SB BRIDGE JOINT**  
Not to Scale



**PROPOSED SB BRIDGE JOINT**  
Not to Scale

**NOTES**

1. Repair concrete deck and backwall as directed by the Resident. Deck and backwall and concrete repair, if required, shall be paid for under the appropriate 518 concrete repair items.
2. Elastomeric Concrete and Continuous Bearing Plate shall be incidental to Item 520.23 Asphaltic Plug Joint (Spruce Creek NB) and (Spruce Creek SB).
3. See Miscellaneous Detail sheet for the joint treatment at the bridge curbs.

**SHEET NOTE**

1. See Miscellaneous Details sheet for Joint Detail at Curb for the Asphaltic Plug Joint treatment at the curb.

Filename: ... \080...joint.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	GME	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
BRIDGE JOINT MODIFICATIONS

VHB: 55345.00
SHEET NUMBER: **80**

CONTRACT: 2022.04
**80 OF 117**

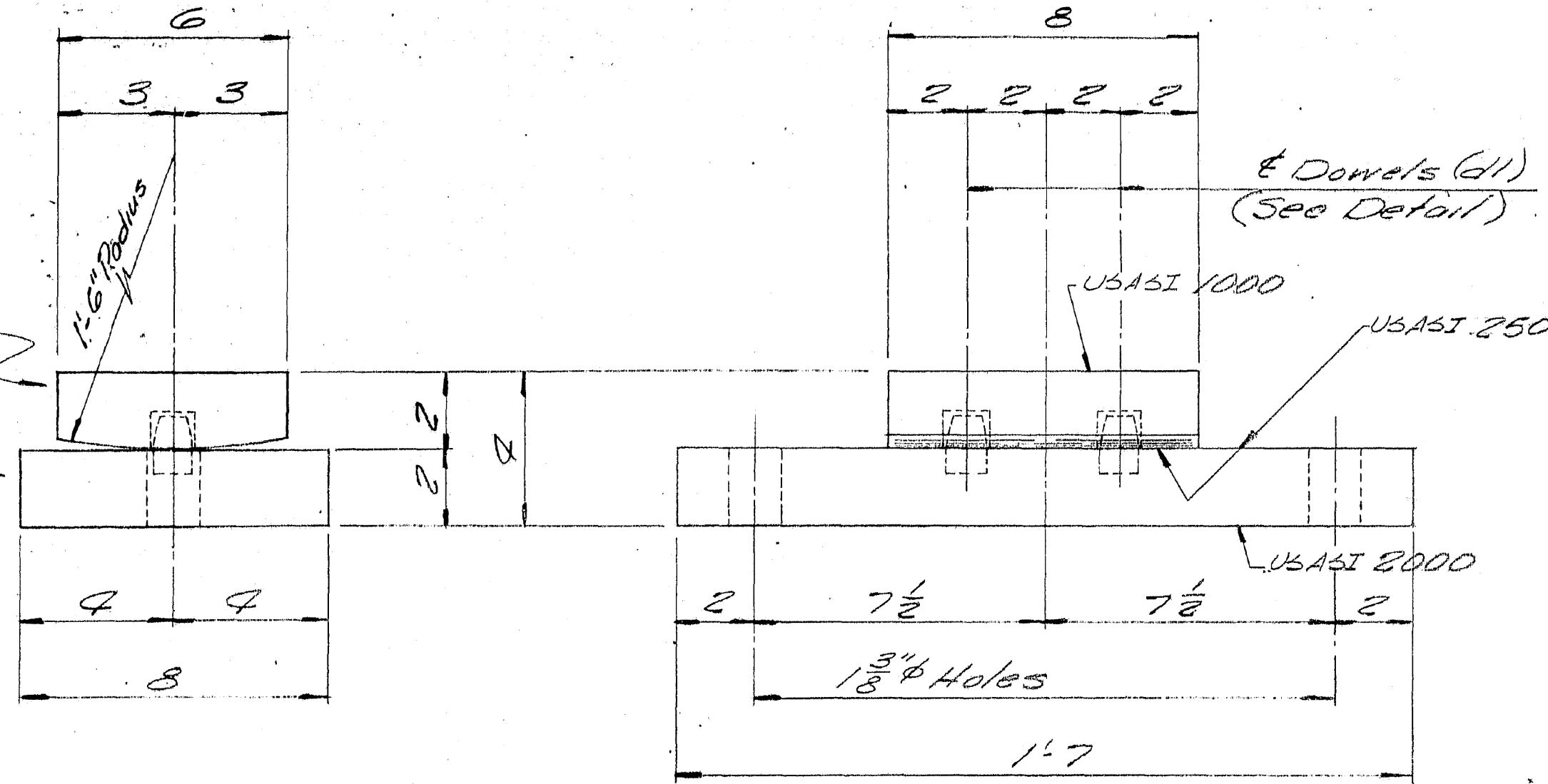




**NOTE:**

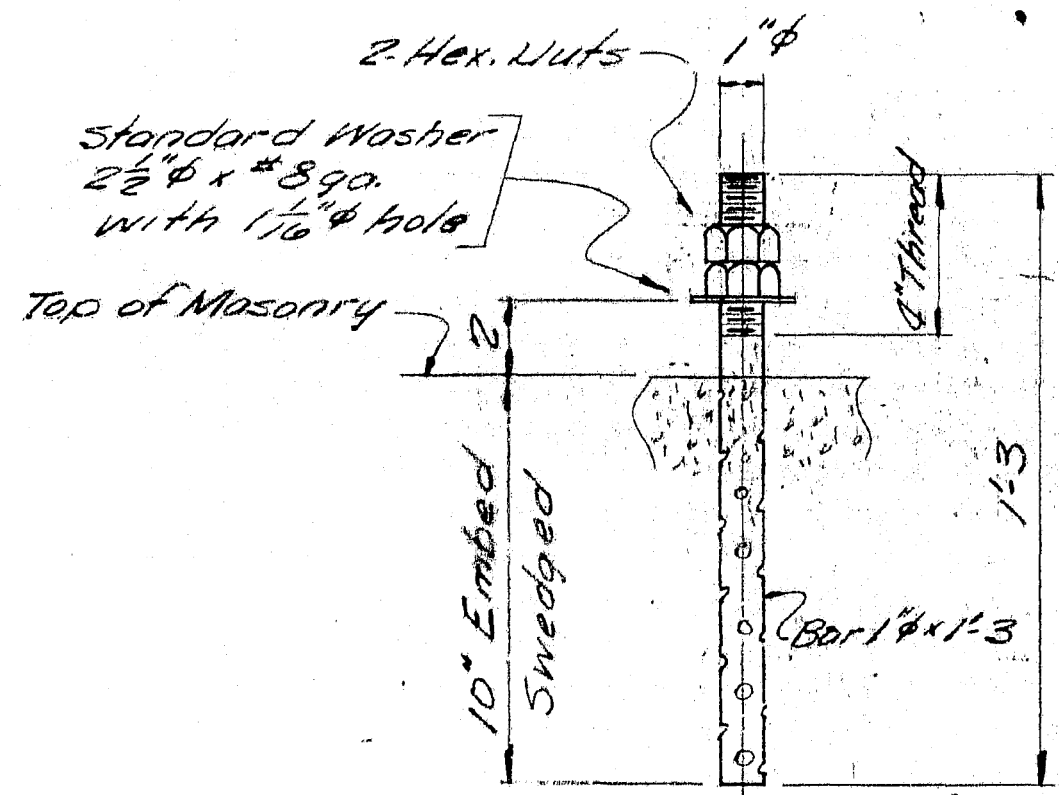
1. These details are from the 1970 existing Spruce Creek Bridge plans. These details are provided for reference for replacement of existing bearings noted on the General Plan and Elevation Sheet. The Contractor shall field verify all relevant dimensions and modify as necessary prior to submitting bearing shop drawings. All replacement bearings shall be coated in accordance with Special Provision 523.

Bar 6x2x0'8  
Mark FPB-1  
Bar 8x2x1'7  
MP2



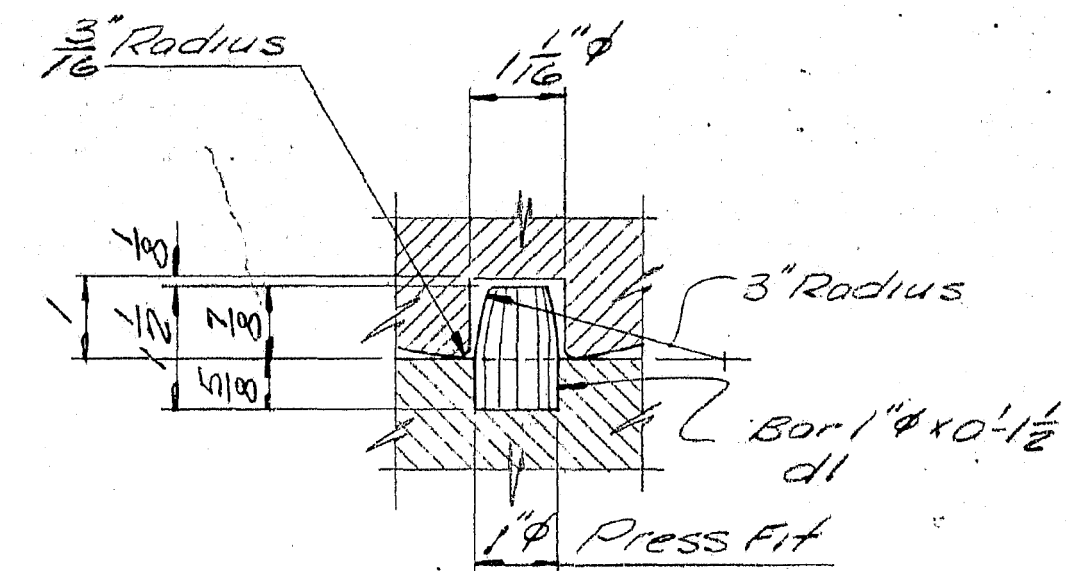
**FIXED PEDESTAL ASSEMBLY**

**FPB-1 8 REQ'D.**

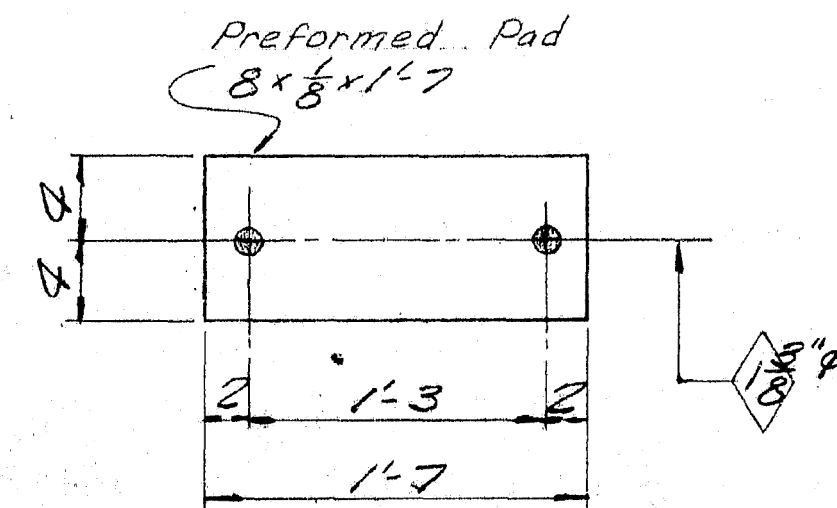


**ANCHOR BOLT AB2**

**16 REQ'D.**



**DOWEL DETAIL**



**PREFORMED PAD**

**FP2 - 8 REQ'D.**

**PAINT NOTE:**

No paint on top of sole plates and 1" down from top on sides, coat with boiled linseed oil.  
No paint on anchor bolts - oil thro.  
SURFACES WITH USASI 250 FINISH TO RECEIVE 2 COATS OF SHOP PAINT.

SHIP		BILL OF MATERIAL				JOB NO 70-440
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
FPB-1	8		Bar 6x2	0 8		
MP2	8		Bar 8x2	1 7		
	16	d1	Bar 1" φ	0 1 1/2		
AB2	16		Bar 1" φ	1 3		swaged
	32	shop	1" Hex. Nut			
Field	16		1" washer			Std. washer 2 1/2" O.D. x 3/8 ga. with 1 1/8" hole
FP2	8		Pad 8 x 1/2	1 7		Preformed Pad Reg. No. 70-440

ITEM 504.703  
PROJECT No. I-95-1 (5)

Sole plates "SP" to be field welded to stringers.

Bearing material to be ASTM A36, Anchor bolts to be A36.  
All welds to be made with E70 LH Electrodes  
APPROVED 12-10-70 SHOP CONNECTIONS: Welded

FIELD CONNECTIONS:  
HOLES: As noted  
PAINT: Red lead per Maine S.H.C. spec, and as noted.  
BLAST CLEAN

**BEARING PEDESTAL DETAIL**

Bancroft & Martin Inc.  
South Portland 7, Maine

I 95 over SPRUCE CREEK  
KITTERY, MAINE

CHK 11-20-70 HL	CUSTOMER THOMAS DICENZO
DRAWN 10-22-70 DWL	DESIGNER M.S.H.C. BRIDGE DIV.
REVISION	ORDER NO.
REVISION	JOB NO. 70-440
REVISION	DWG. NO. 32

117-160 Pa Mk. REV.

Date: 1/14/2022

Filename: ...082\_Bearing\_Det\_02.dgn

No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	By	Date	
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

VANASSE HANGEN BRUSTLIN, INC.  
500 Southborough Dr.  
Suite 105B  
South Portland, ME 04106  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

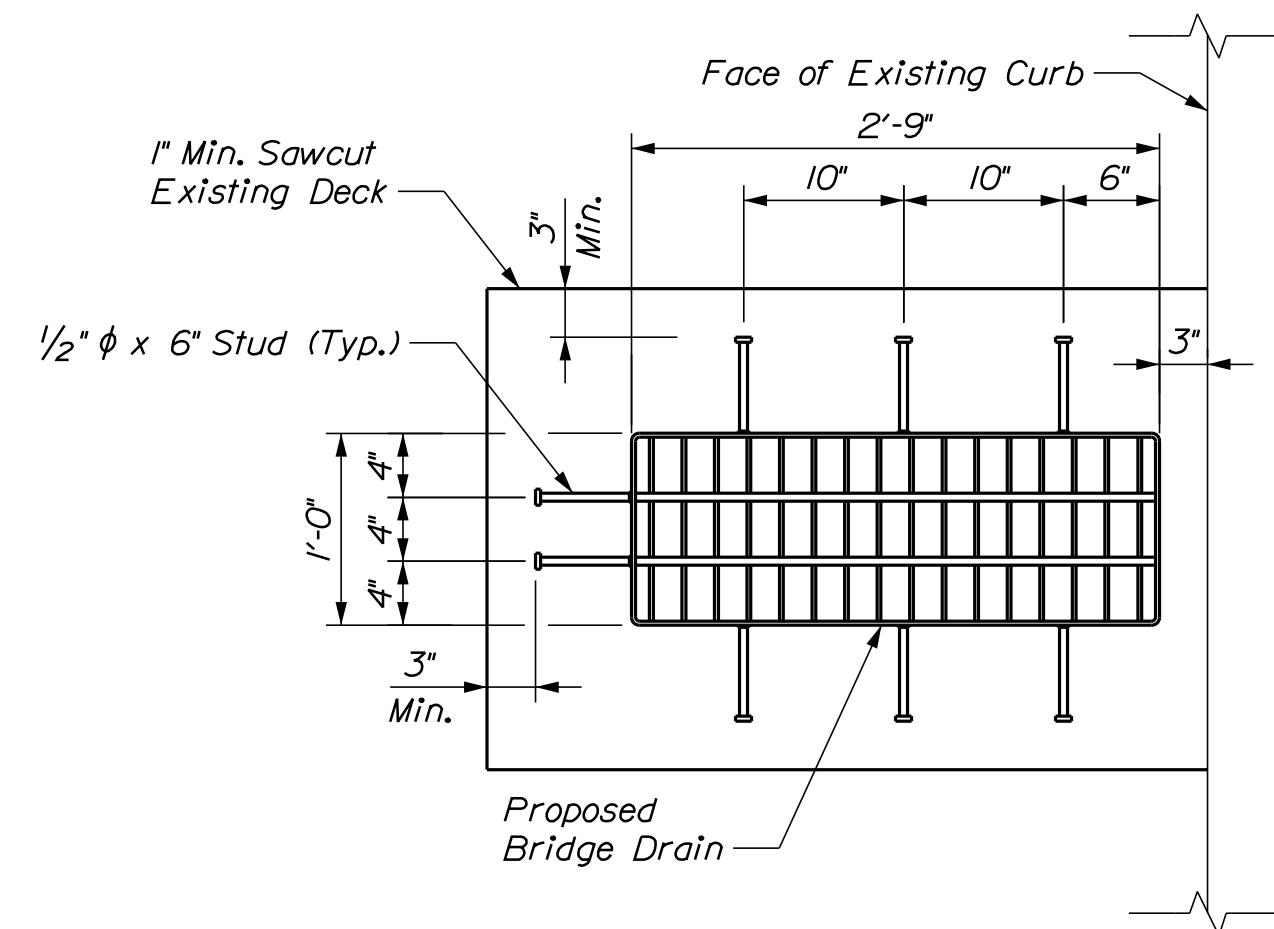
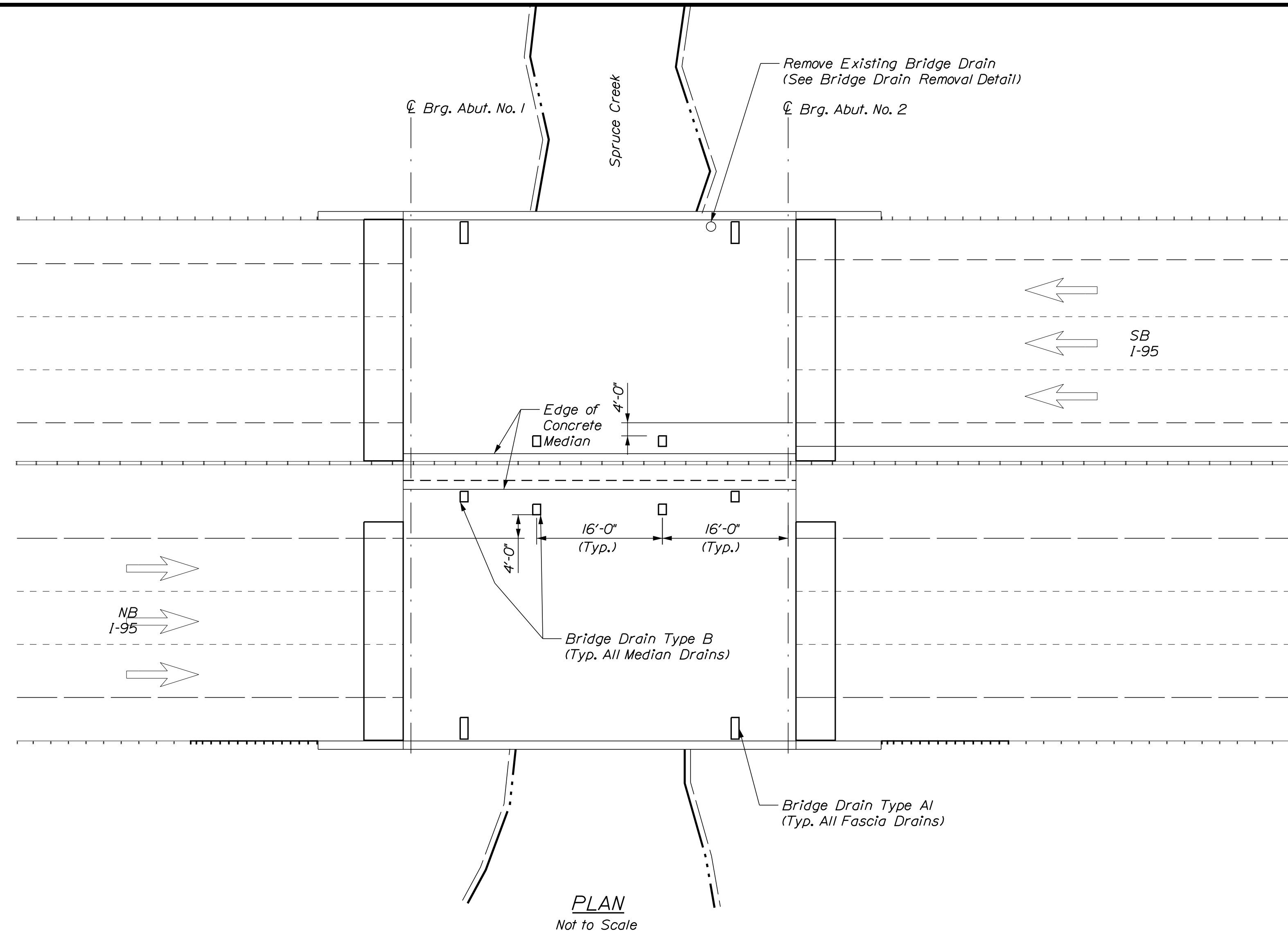
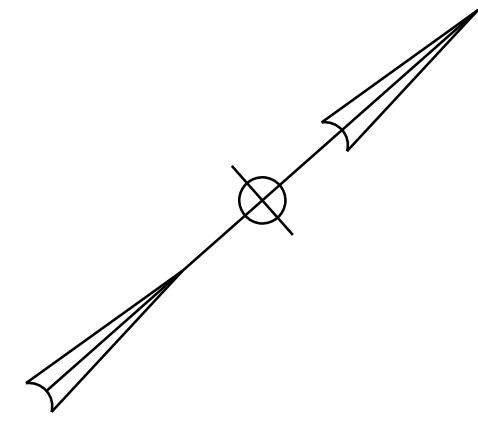
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
BEARING PEDESTAL DETAILS (2 OF 2)

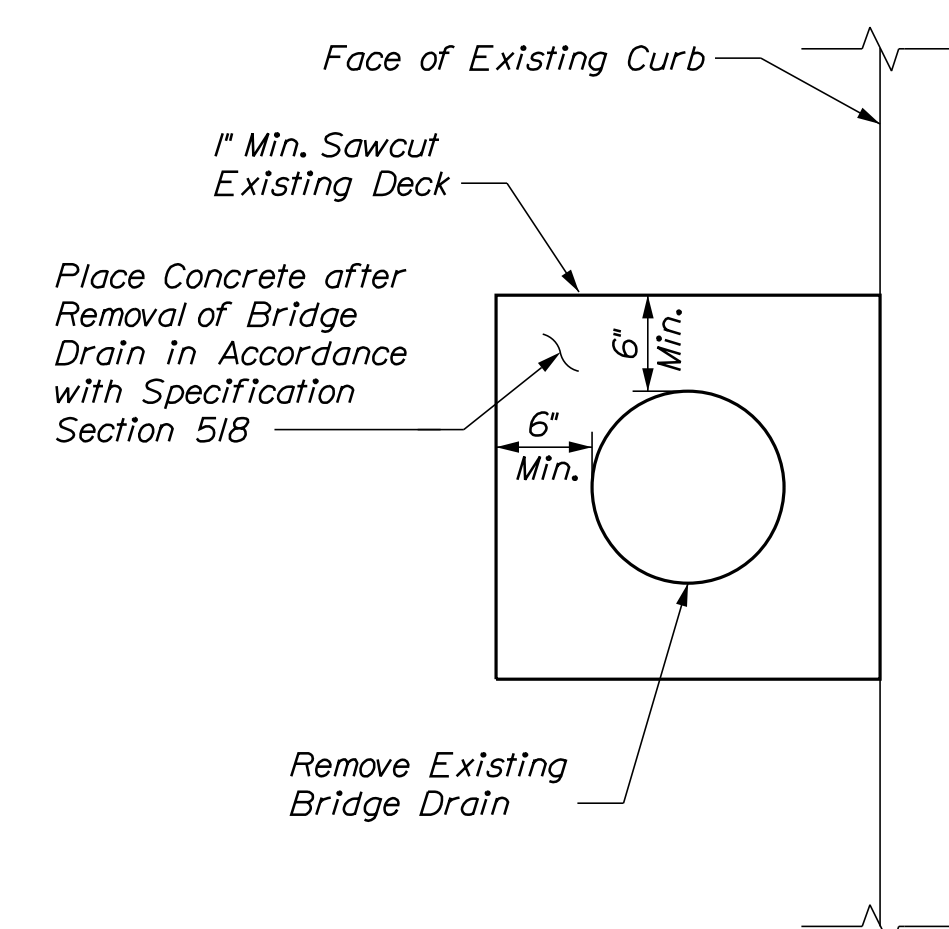
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 82  
82 OF 117

Date: 1/14/2022



**PROPOSED BRIDGE DRAIN PLAN**  
(Type A1 shown, Type B Similar) (See Note 1)  
Scale: 1" = 1'-0"



**BRIDGE DRAIN REMOVAL DETAIL**  
(See Note 1)  
Scale: 1" = 1'-0"

**NOTE**

1. All labor, equipment, and materials necessary to complete this work shall be paid for under Item 502.702, Replace Bridge Drain (Type A1) or Item 502.703, Replace Bridge Drain (Type B) as noted in the plans.

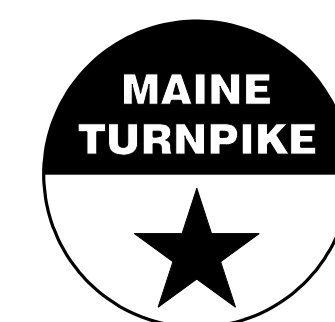
Filename: ...083\_Deck\_Drain\_01.dgn

Scale: AS NOTED

Designed by:



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 NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
BRIDGE DRAIN DETAILS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

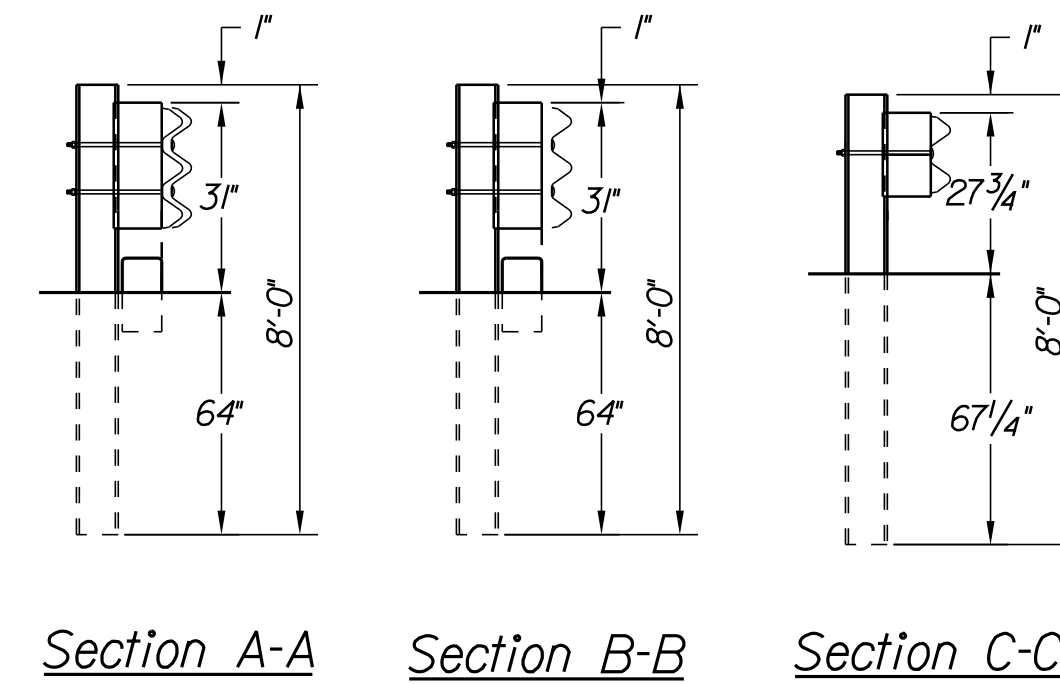
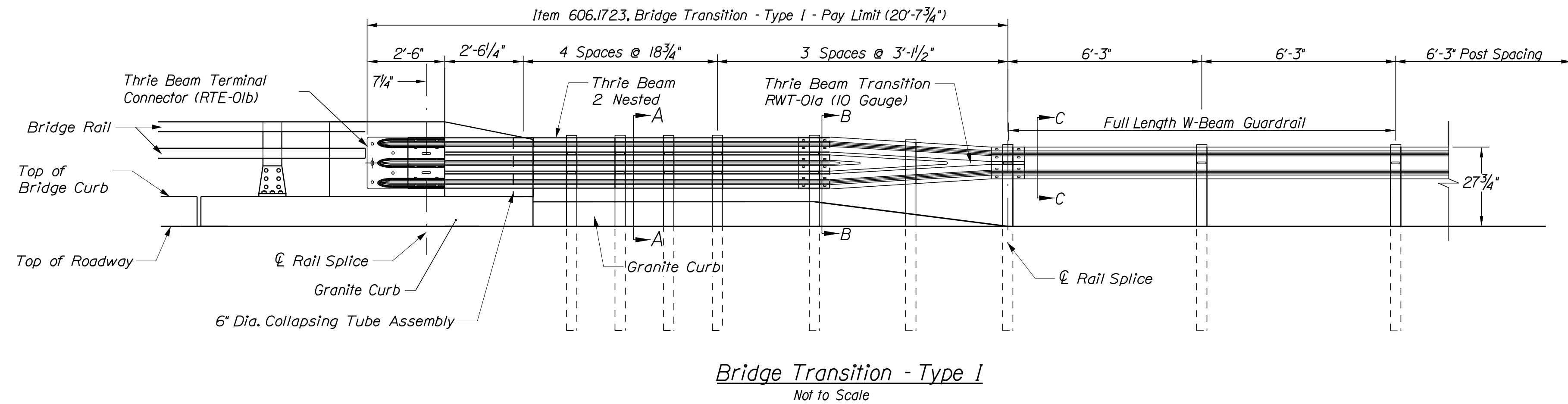
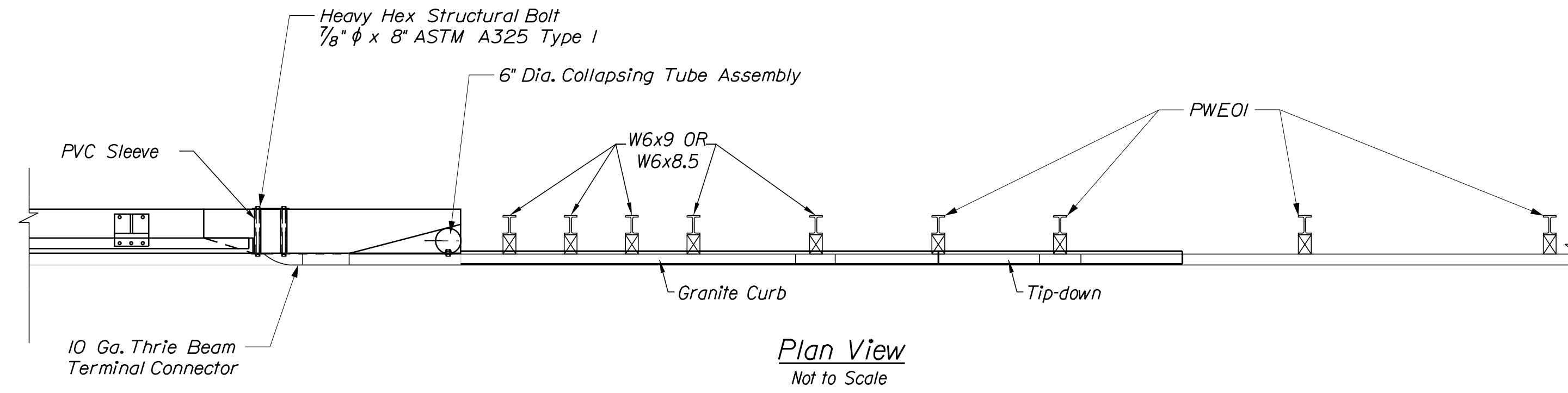
VHB: 55345.00

SHEET NUMBER: **83**

CONTRACT: 2022.04

**83 OF 117**

Date: 1/14/2022



**CURB NOTES:**

1. Curbing shall be either precast concrete, cast-in-place concrete or granite to meet dimensions shown on the plans.
2. Concrete curbs used in conjunction with thrie beam bridge transitions shall be Type 2, see details this sheet. Concrete curbs shall be set to form a continuous gutterline without any drainage cuts.
3. Sawcutting existing pavement, concrete fill, and pavement to limits shown shall be incidental to the Bridge Transition pay item.

**GENERAL NOTES:**

1. Additional holes may be made in the thrie beam panels by drilling, punching, or other means that produce a neat, clean hole. Burning holes will not be allowed.
2. Thrie beam shall be placed with the composite blockout face in front of or directly above the curb face.
3. Rail element shall meet all requirements of AASHTO M-180 except as modified on the plans. The thrie beam transition to W-Beam shall be of the same material, but shall not be less than 10 gauge.
4. After installation is complete, upset the thread on the anchor bolts in three places around each bolt, at the junction of the nut and the exposed thread, with a center punch or similar tool.
5. Standard barrier hardware has been used to develop these guardrail attachments. Designations provided in parentheses relate to standard elements detailed in "A Guide to Standardized Barrier Rail Hardware," 1979, AASHTO-AGC-ARTBA Joint Cooperate Committee.
6. 1" hole in concrete shall be formed by a 1" I.D. PVC sleeve as approved by the engineer.
7. Guardrail height shall be adjusted uniformly between section callouts.

Filename: ...084...Details.BridgeTransition.dgn

Scale: <b>As Noted</b>			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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500 Southborough Dr.  
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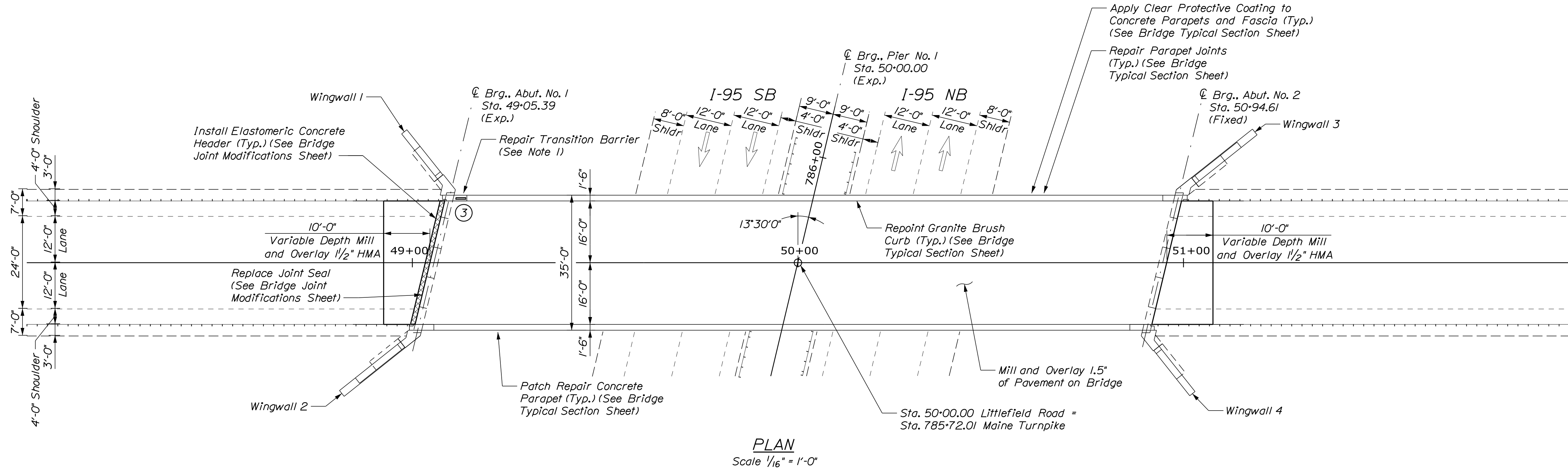
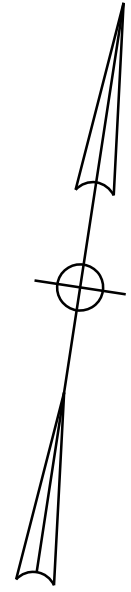
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

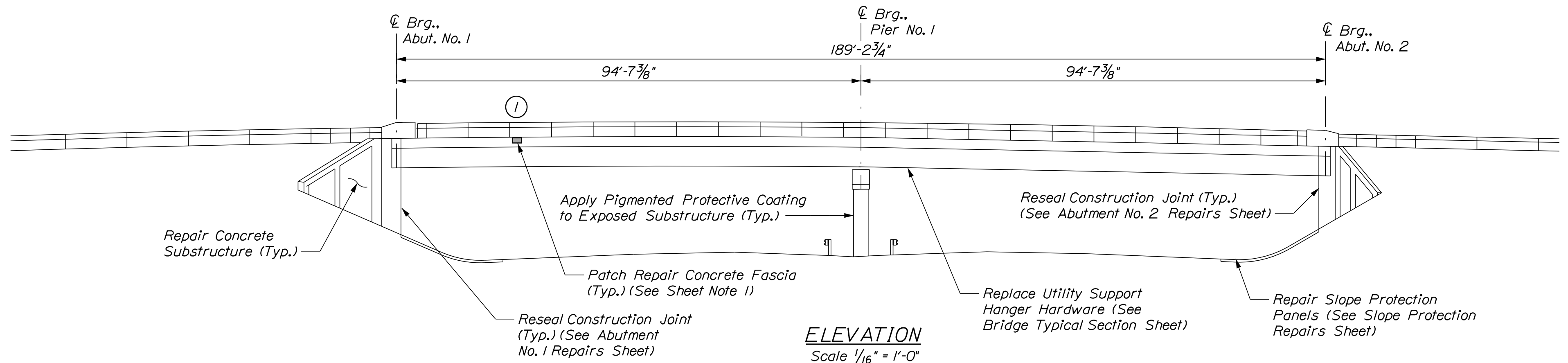
MTA PROJECT NO. 2022.04  
INTERSTATE 95 OVER SPRUCE CREEK  
AT MM 2.20 IN YORK, ME  
BRIDGE RAIL TRANSITION DETAILS

VHB: 55345.00	SHEET NUMBER: 84
CONTRACT: 2022.04	84 OF 117

Date: 1/14/2022



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



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

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Transition Barrier Concrete Repairs	5*
* Includes 2 S.F. Additional Repair Quantity As A Contingency	
Parapet Surface Repairs	110**
** Includes 14 S.F. Additional Repair Quantity As A Contingency	
Fascia and Overhang Repairs	5***
*** Includes 4 S.F. Additional Repair Quantity As A Contingency	

**NOTE**  
1. Transition barrier concrete repairs shall be paid for under Item 518.10 Abutment Repairs.

**SHEET NOTE**  
1. For Concrete Repair Notes and Details see Typical Details Sheet.

**KEY**

	Limit of Crack Repair
	Limit of Surface Patch Repair
	Linear Feet of Crack Repair
	Square Footage of Repair

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

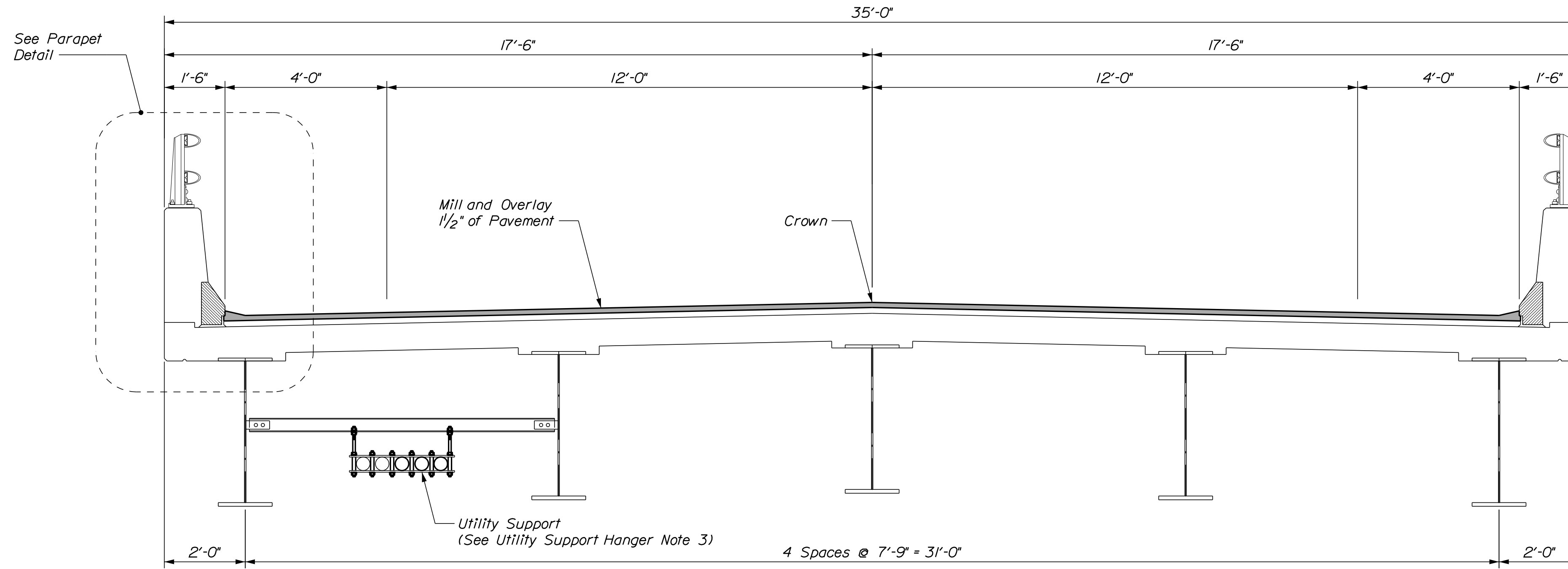
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
GENERAL PLAN AND ELEVATION

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **85**  
**85 OF 117**

Date: 1/14/2022



**SUPERSTRUCTURE TYPICAL SECTION**  
Scale: 1/2" = 1'-0"

**UTILITY SUPPORT HANGER NOTES**

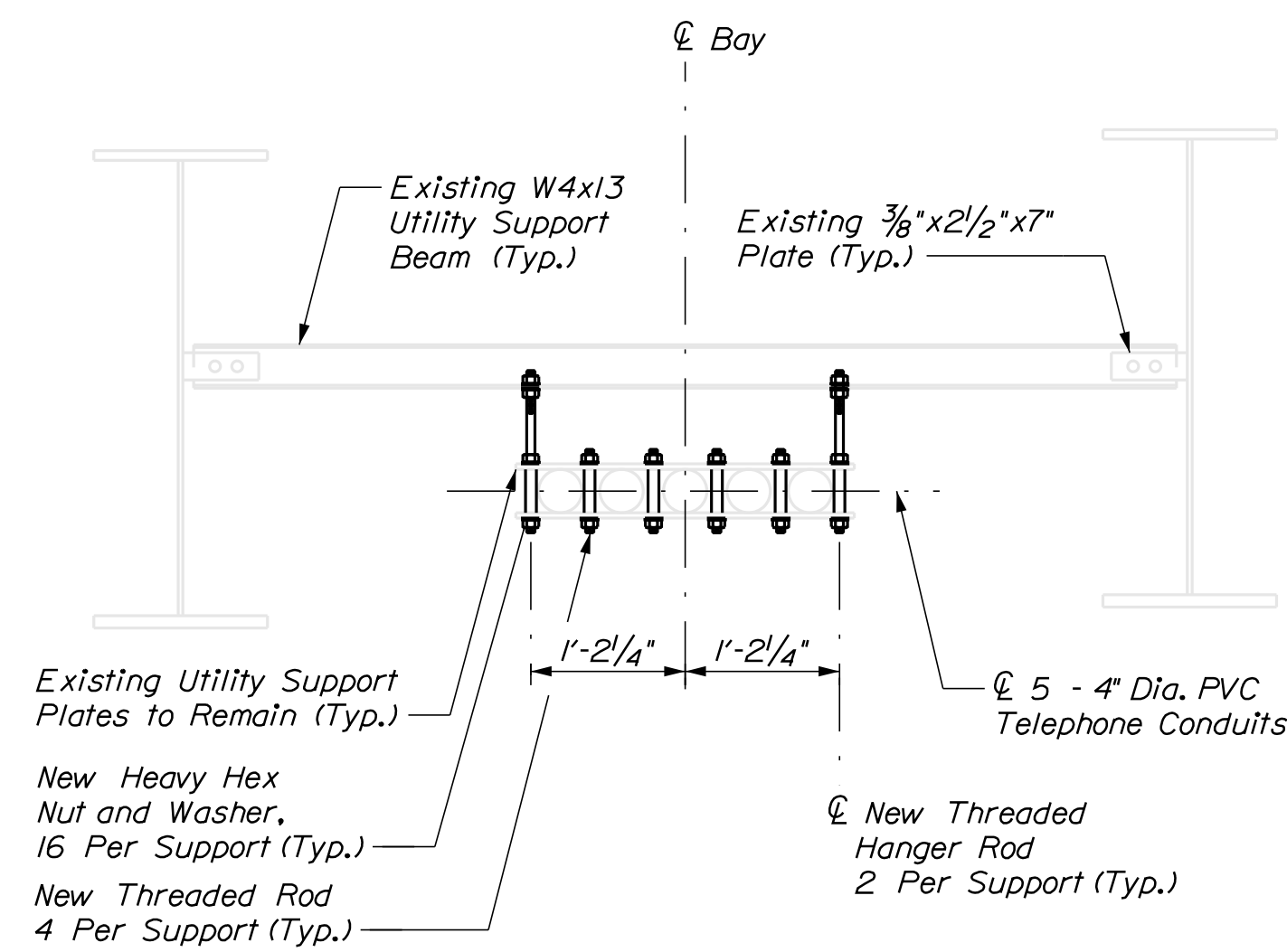
1. The utility support hardware shall be replaced at all utility support hangers. The existing composite support hardware shall be re-used. The conduit shall be temporarily supported at the location being replaced. The Contractor shall design and submit installation and temporary support plan at least three weeks prior to performing this work. The Contractor shall be fully responsible for replacing the existing composite square tube and pipe hardware if damaged during removal and re-installation.
2. Contractor shall field verify threaded rod lengths prior to rod and hardware procurement. The rod length and hardware depicted in the plan set is based on limited field measurements within the shoulder of each bridge location. Field cutting new threaded rod will not be permitted.
3. 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**

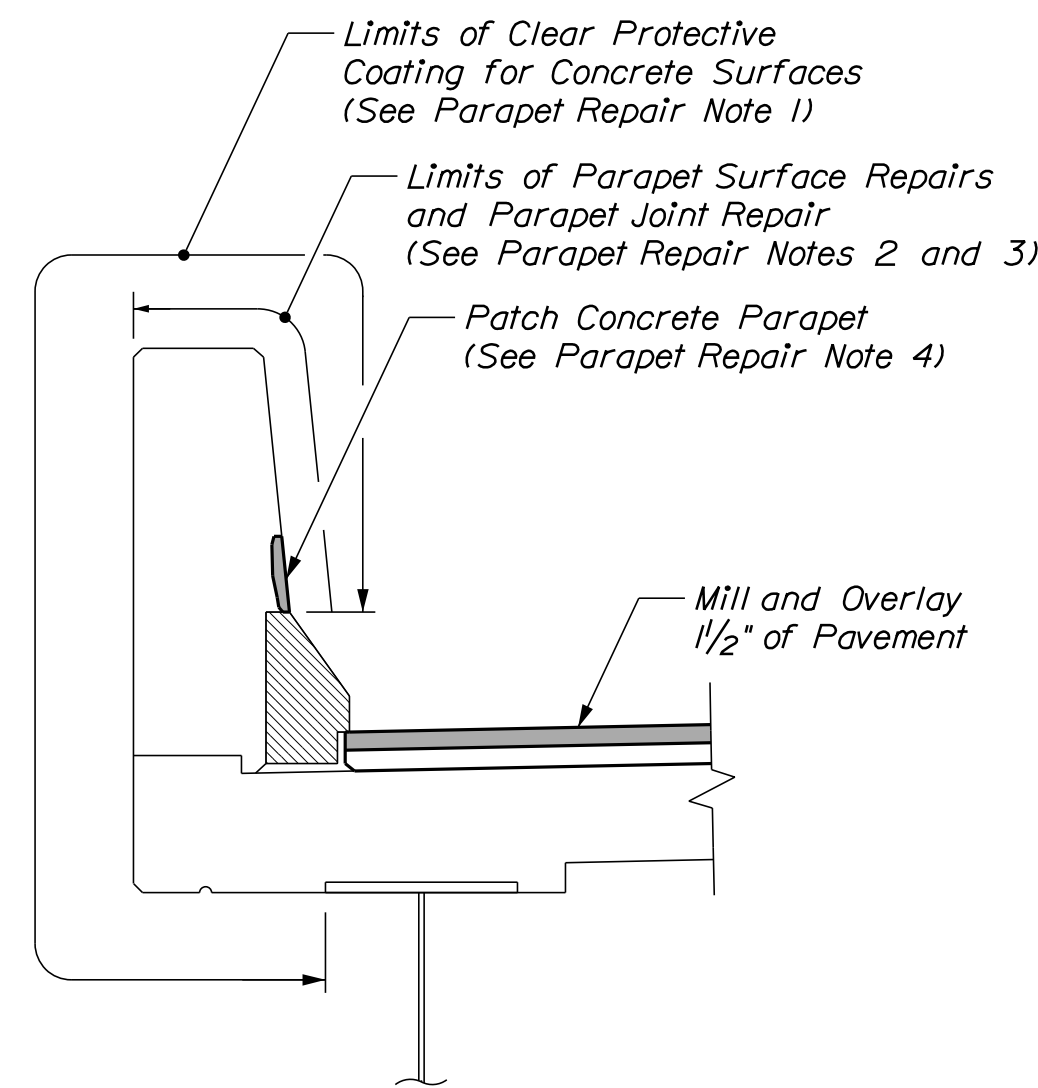
1. All utility support hardware shall consist of 3/4" dia. Grade A36 threaded rod, 1/4" Grade A563 heavy hex locking nuts and associated washers. All hardware shall be hot dipped galvanized.

**PARAPET REPAIR NOTES**

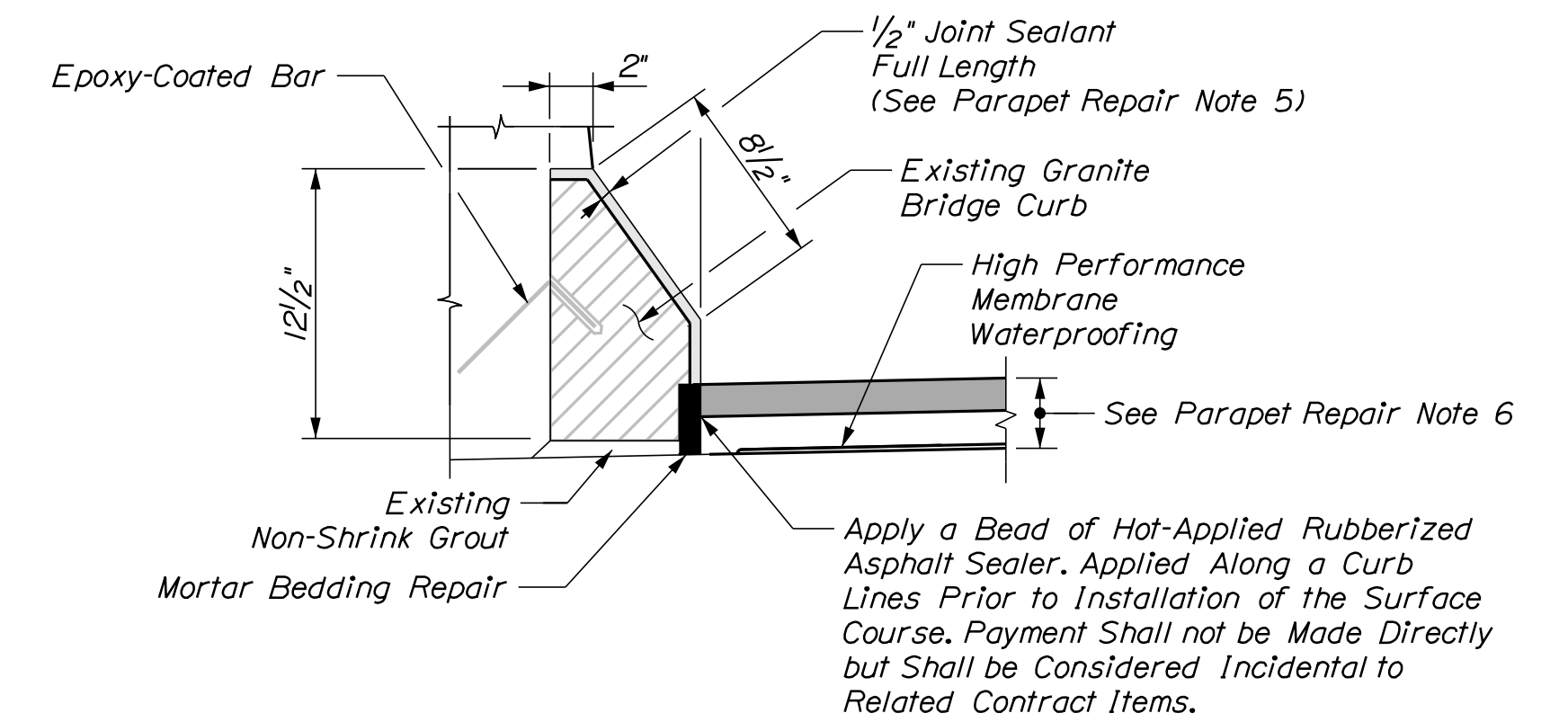
1. Limits of clear protective coating shall be paid for under Item 515.202, Clear Protective Coating for Concrete Surfaces.
2. Prior to application of clear protective coating the Contractor shall fill all honeycomb voids with an approved nonshrink grout. All costs for this work shall be paid for under Item 518.94, Parapet Surface Repairs.
3. Repair parapet joints as directed by the Resident. Joint sealant shall be from MaineDOT Qualified Product List for Silicone and Polyurethane Joint Sealant. Work shall be paid for under Item 518.48 Reseal Joints.
4. Patch Repairs to concrete parapet shall be paid under Item 518.93 Parapet Repairs.
5. Joint Sealant shall be a material from the Maine DOT approved products list as approved by the resident. Joint Sealant shall be incidental to Item 518.391 Repair Granite Curb Joint and Bedding Mortar.
6. The Contractor shall treat corners and vertical face for curbing in accordance with special provision section 508.



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



**PARAPET DETAIL**  
(Bridge Rail not Shown for Clarity)  
Scale: 3/4" = 1'-0"



**EXISTING GRANITE CURB DETAIL**  
1/2" = 1'-0"

Filename: ...\\086\_BTyp\_01.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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

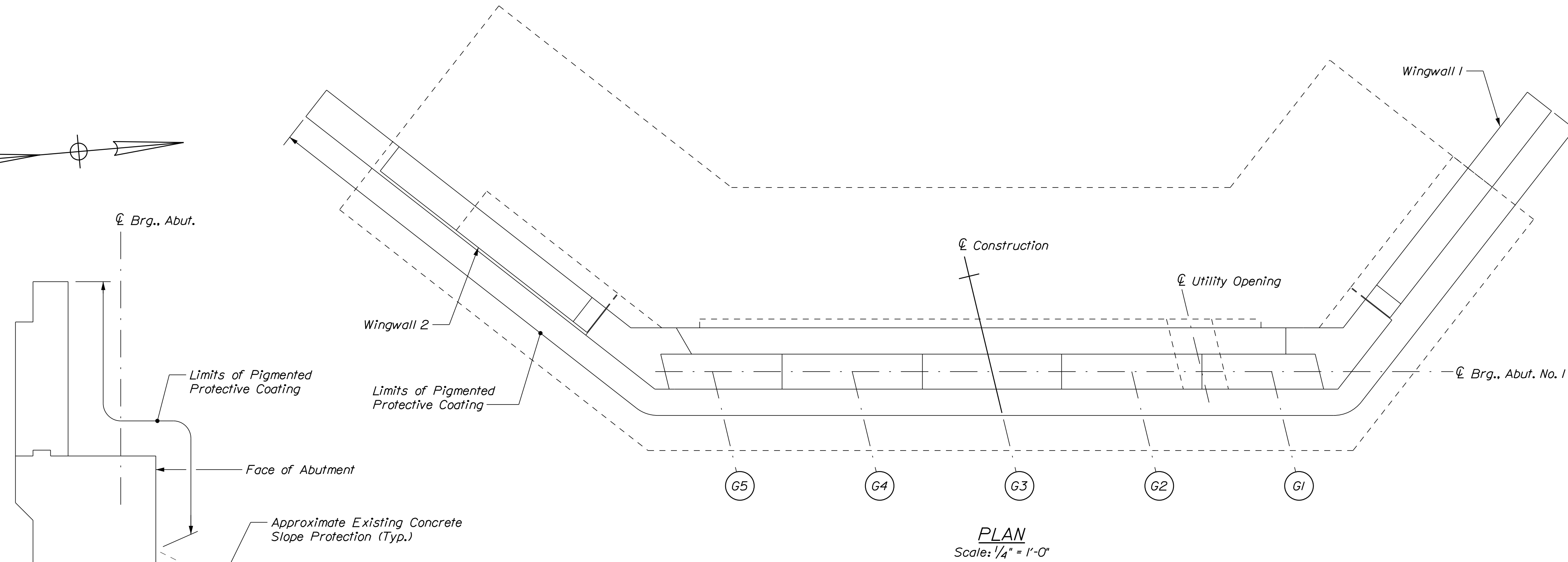
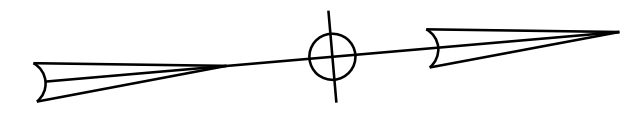
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
BRIDGE TYPICAL SECTION

VHB: 55345.00      SHEET NUMBER: **86**  
CONTRACT: 2022.04      **86 OF 117**

Date: 1/14/2022



**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Abutment Repairs 5\*  
 \* Includes 2 S.F. Additional Repair Quantity As A Contingency

**NOTE**

1. Repair construction joint as directed by the Resident. Joint sealant shall be from the MaineDOT Qualified Products List for Silicone and Polyurethane Joint Sealant and shall be paid for under item 518.48 Reseal Joints.

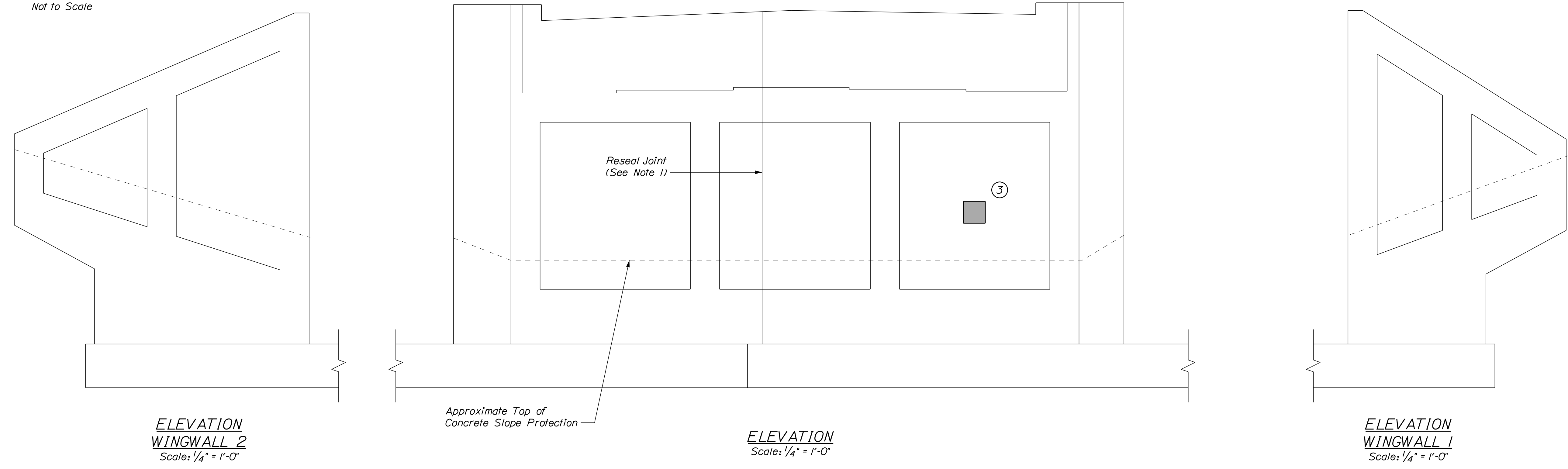
**KEY**

- Limit of Crack Repair
- Limit of Surface Patch Repair
- Linear Feet of Crack Repair
- Square Footage of Repair

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

**TYPICAL ABUTMENT SECTION**  
Not to Scale



Scale: 4 0 8  
1/4" = 1'-0"

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
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**THE GOLD STAR MEMORIAL HIGHWAY**

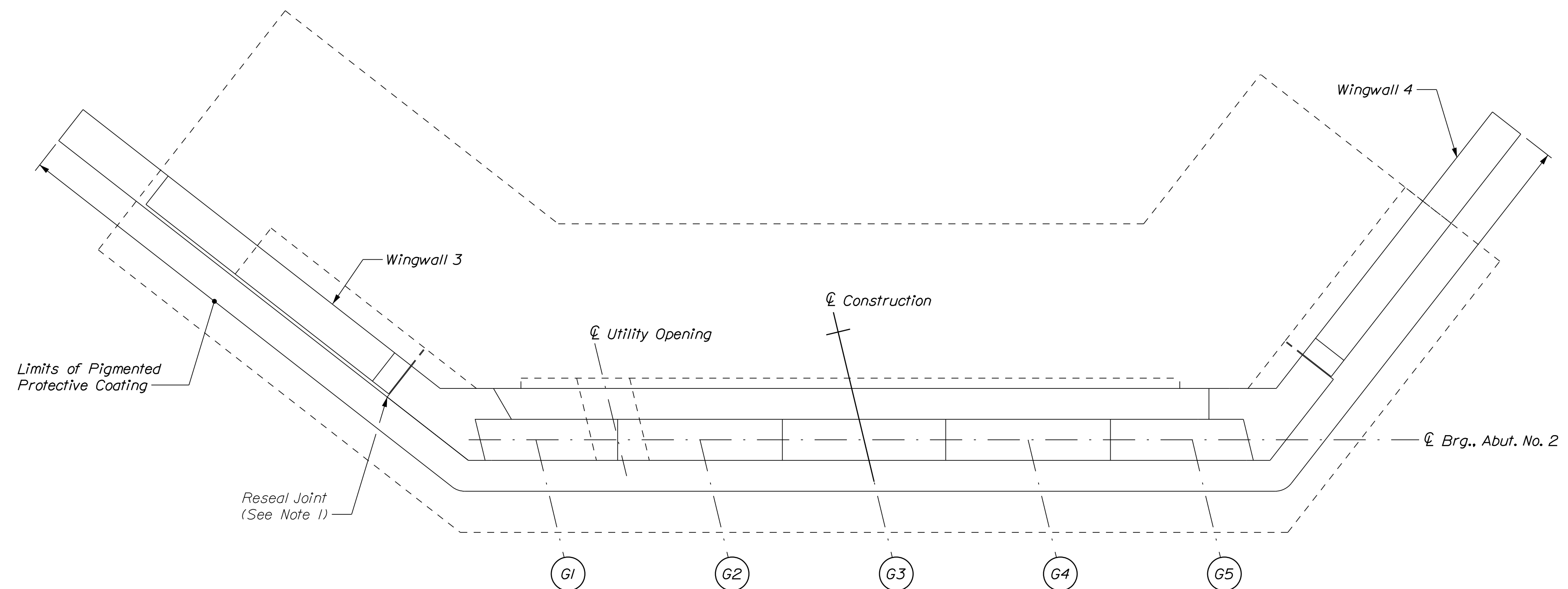
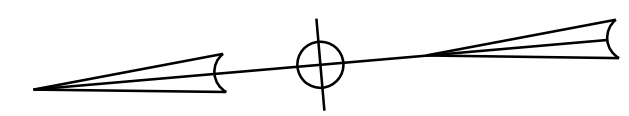
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
 LITTLEFIELD ROAD UNDERPASS  
 AT MM 17.3 IN WELLS, ME  
 ABUTMENT NO. 1 REPAIRS

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: **87**  
**87 OF 117**

Date: 1/14/2022



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

**ESTIMATED CONCRETE REPAIR QUANTITIES (SF)**

Surface Abutment Repairs	10*
--------------------------	-----

\* Includes 3 S.F. Additional Repair Quantity As A Contingency

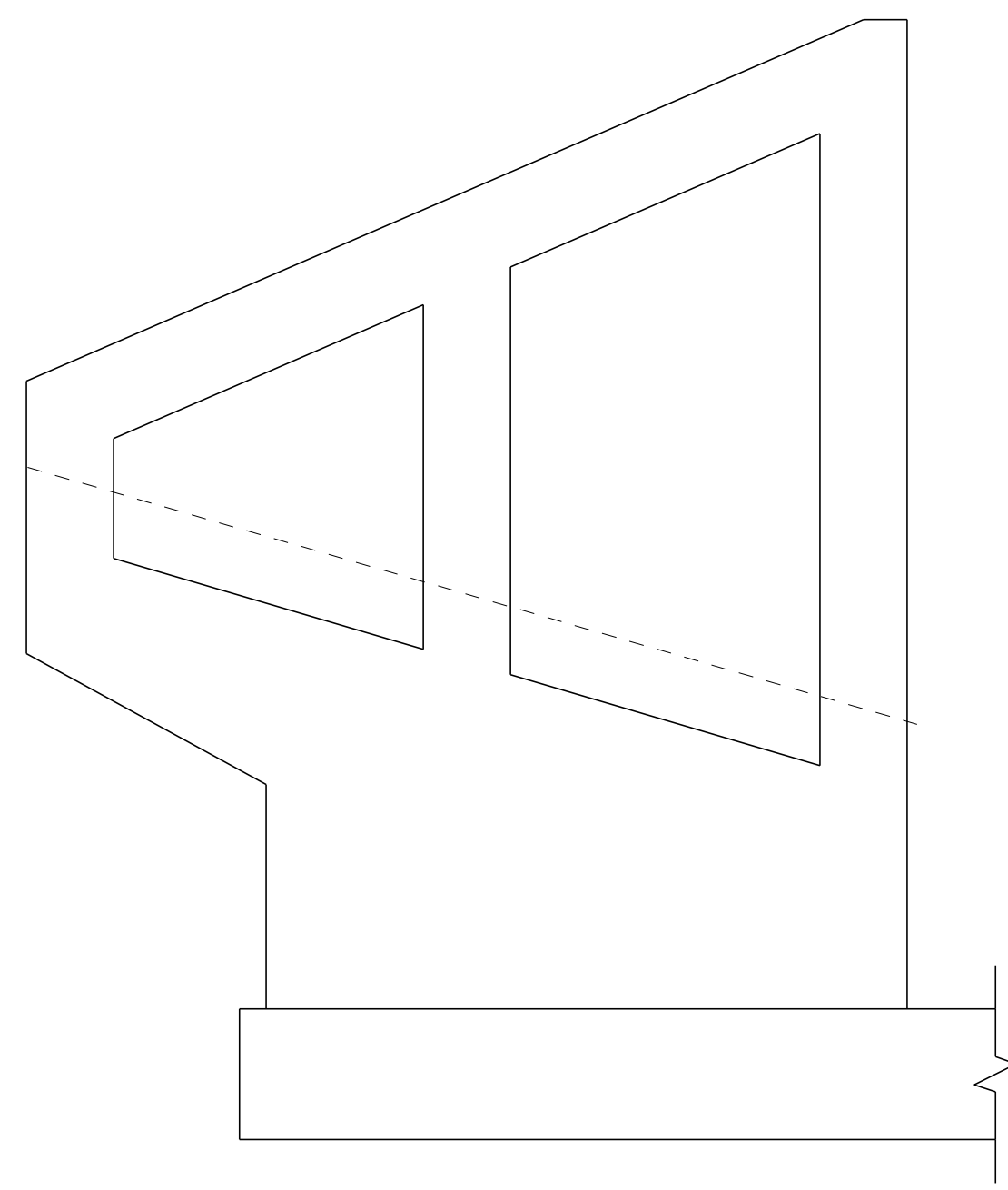
**NOTE**

1. Repair construction joint as directed by the Resident. Joint sealant shall be from the MaineDOT Qualified Products List for Silicone and Polyurethane Joint Sealant and shall be paid for under item 518.48 Reseal Joints.

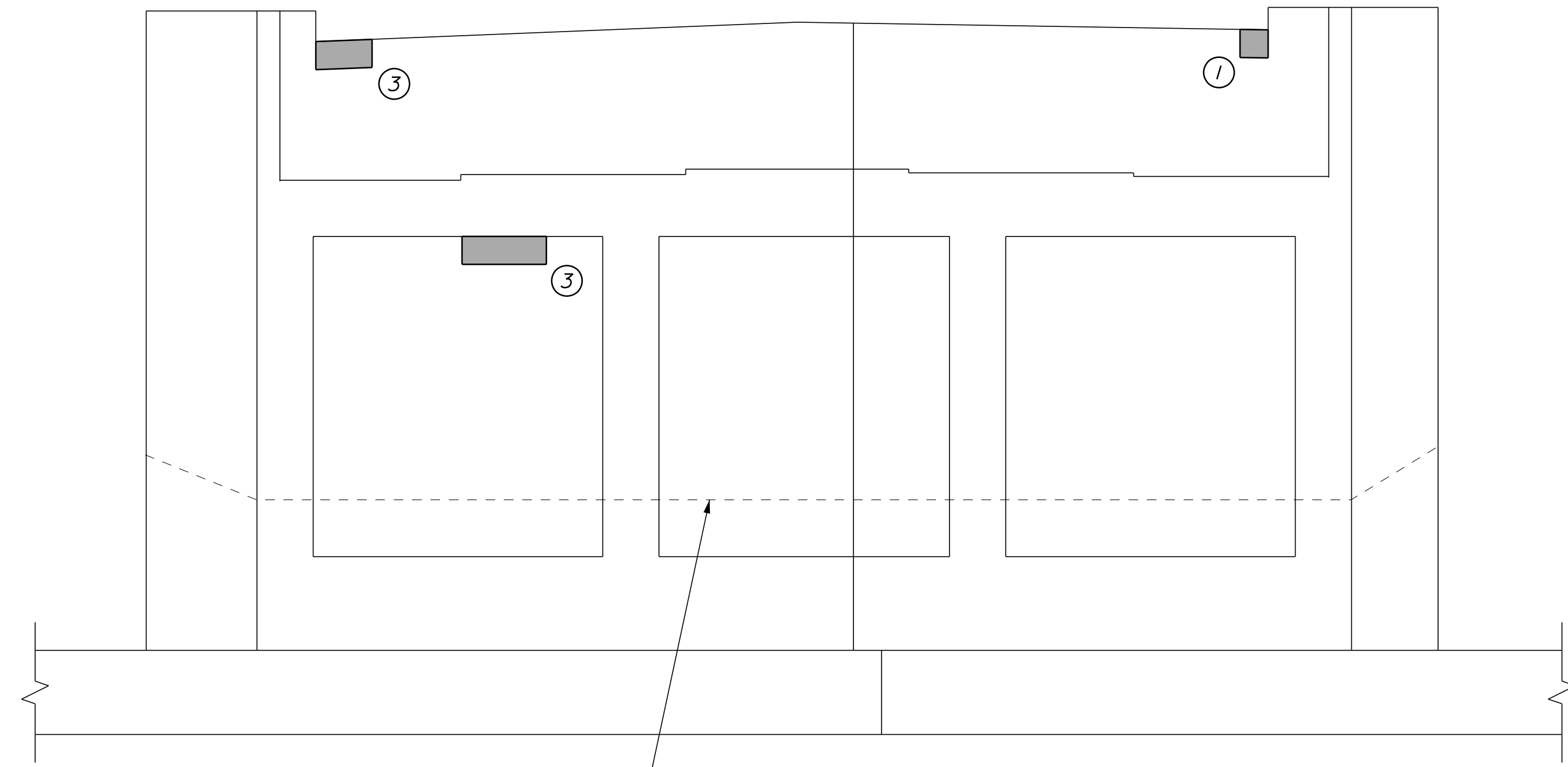
- KEY**
- Limit of Crack Repair
  - Limit of Surface Patch Repair
  - Linear Feet of Crack Repair
  - Square Footage of Repair

**SHEET NOTE**

1. For Concrete Repair Notes and Details see Concrete Repair Typical Details Sheet.

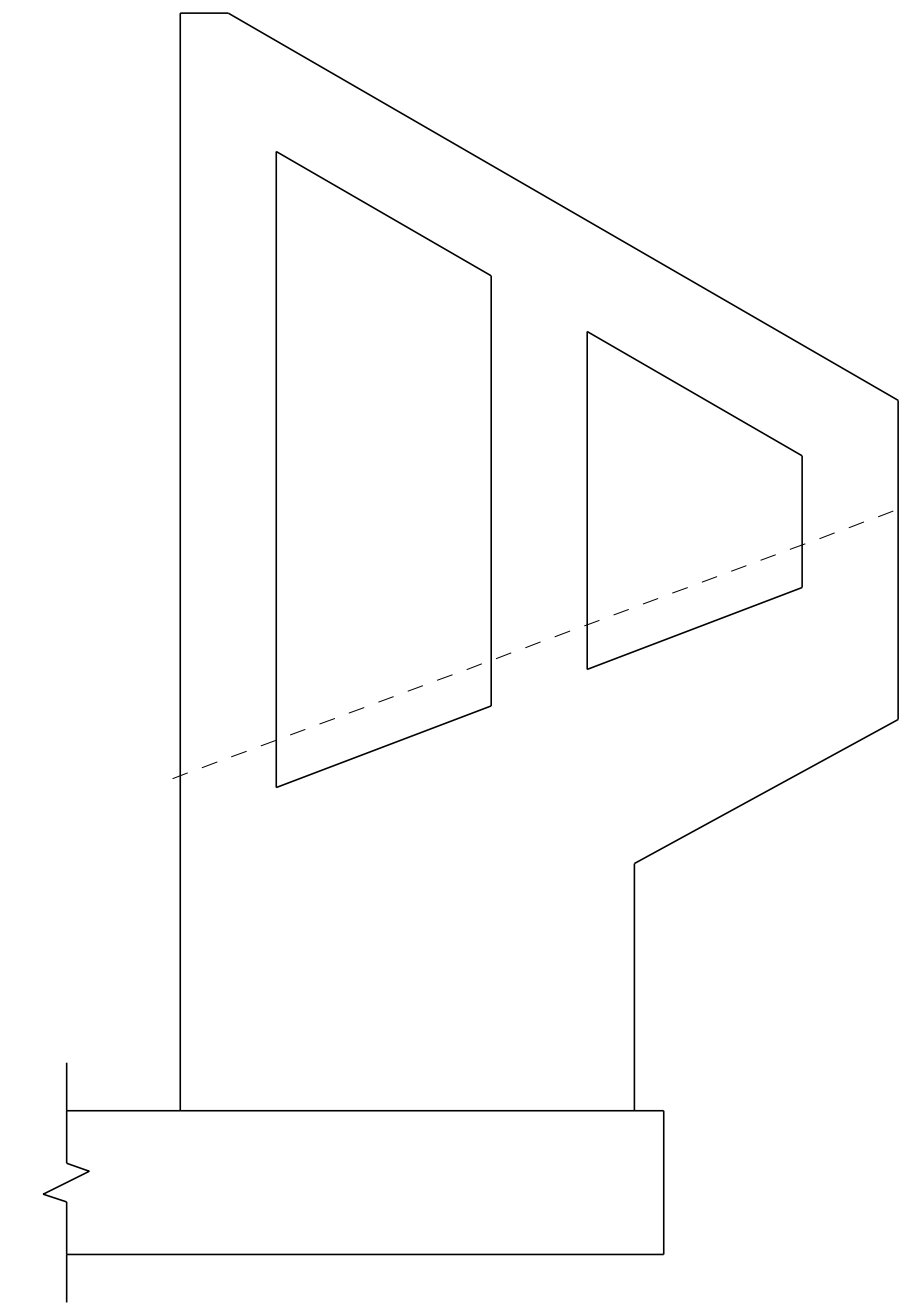


**ELEVATION WINGWALL 3**  
Scale: 1/4" = 1'-0"



Approximate Top of Concrete Slope Protection

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



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

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
ABUTMENT NO. 2 REPAIRS

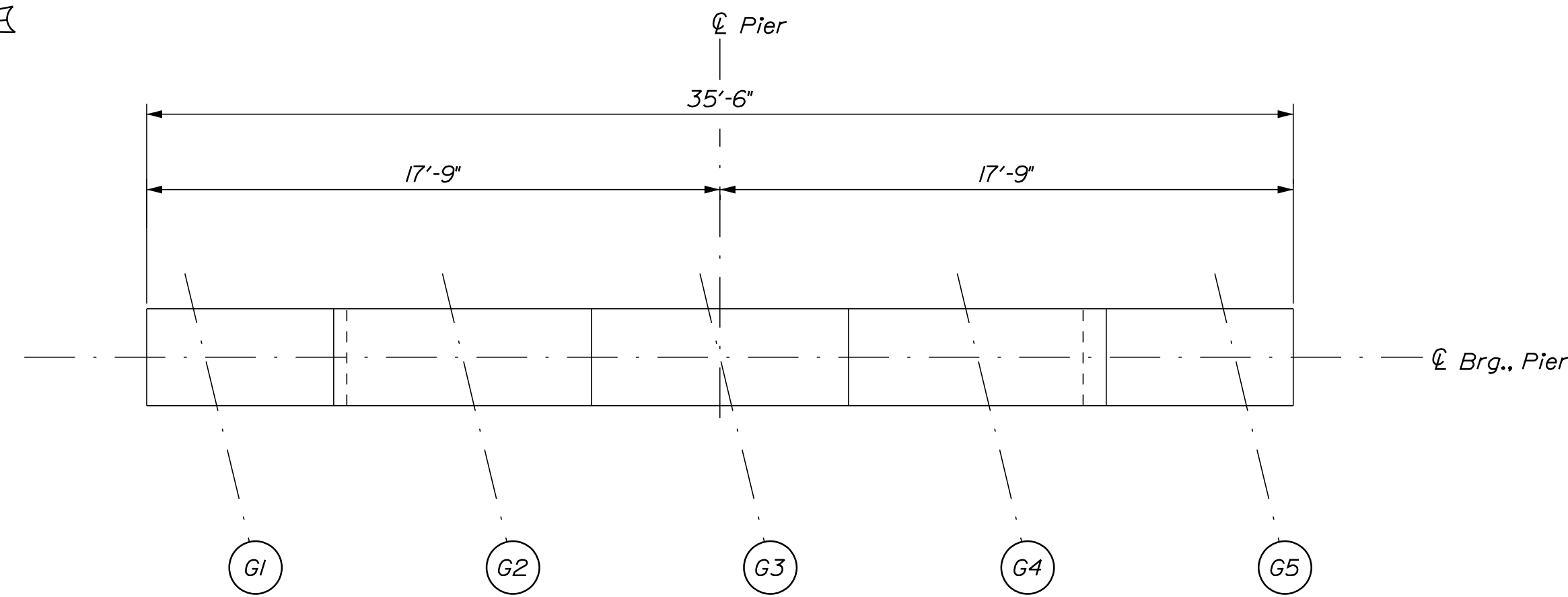
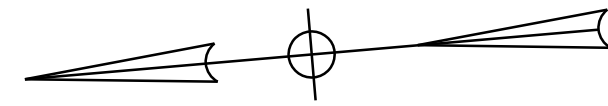
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **88**  
88 OF 117

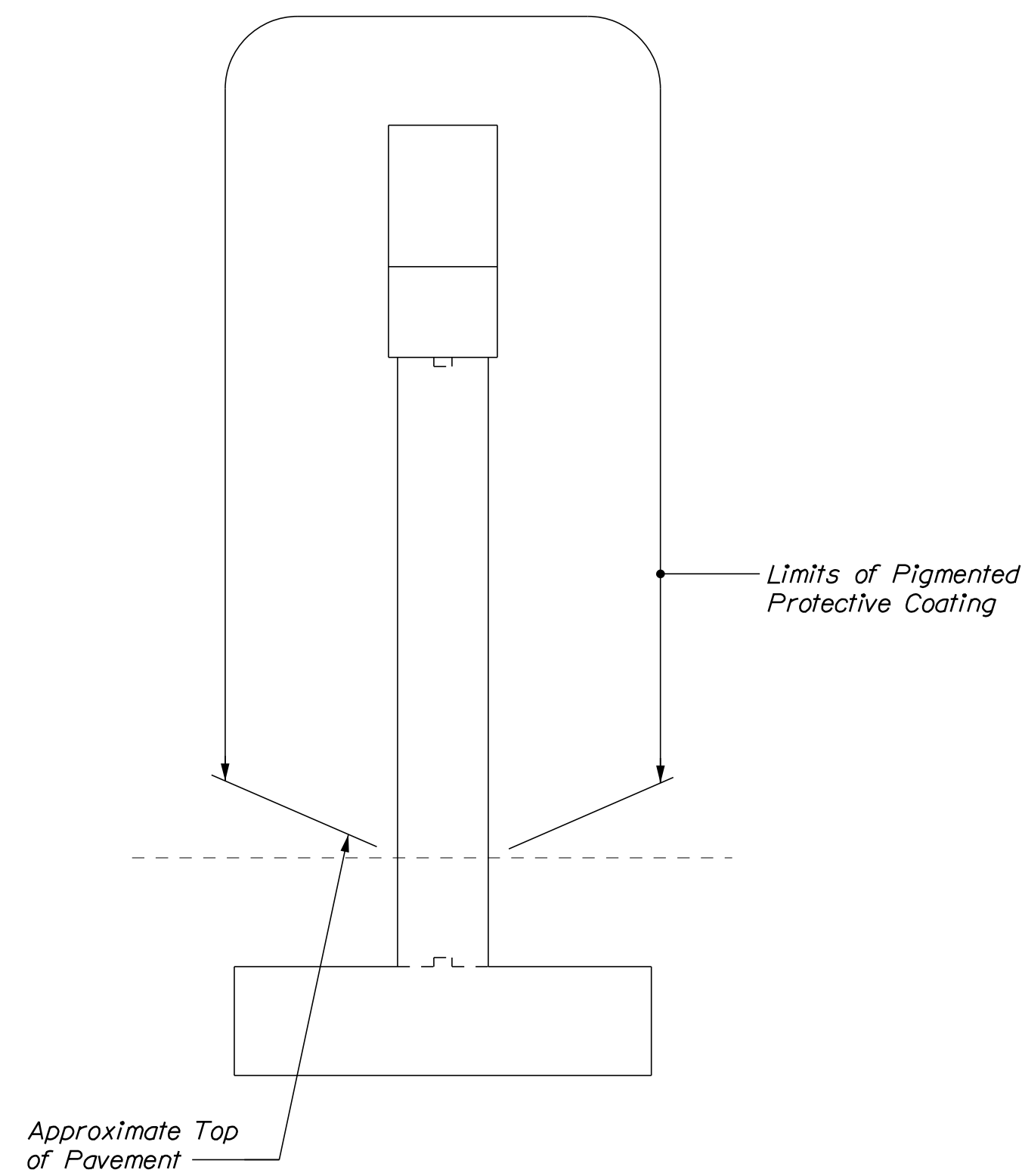
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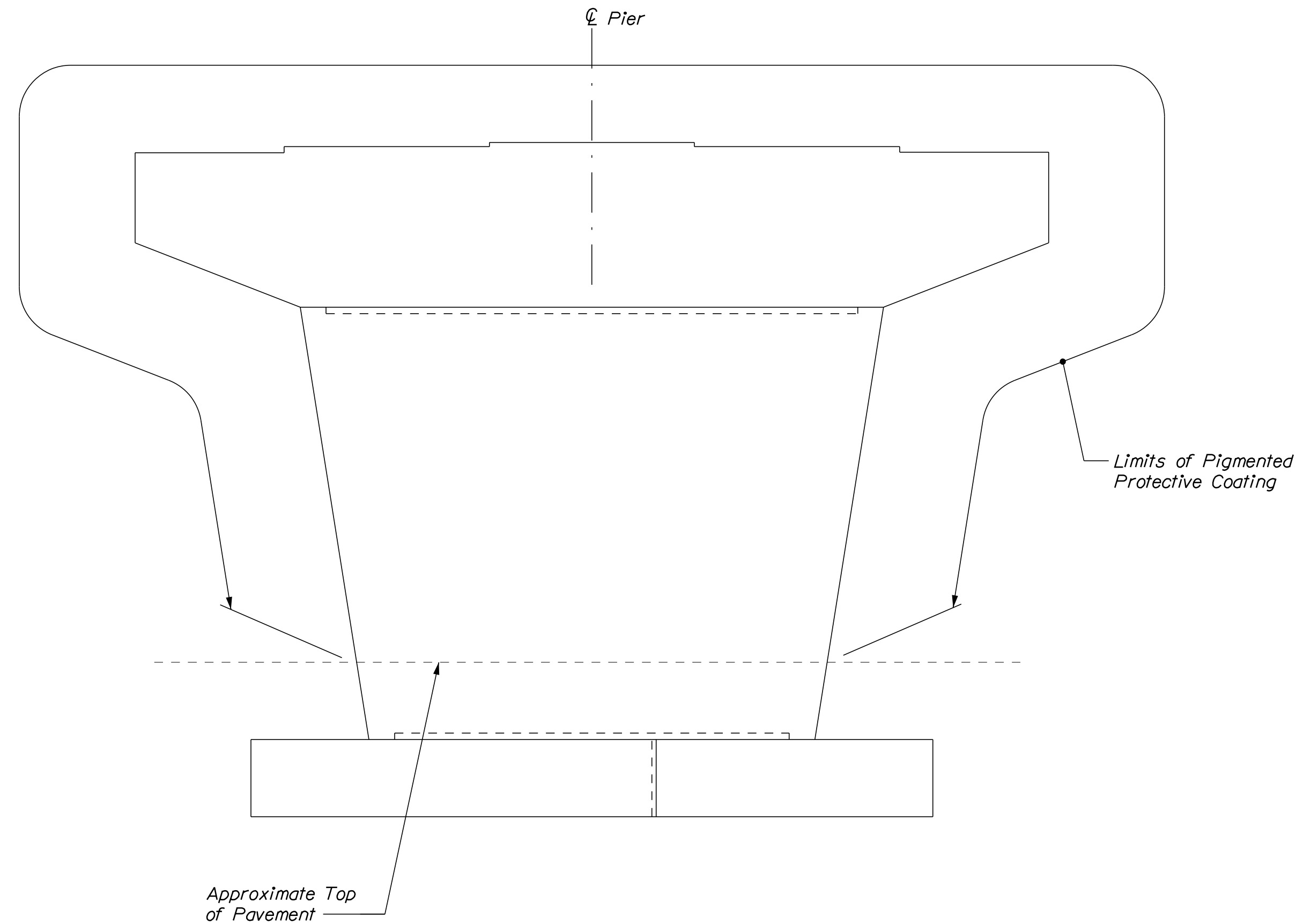
Date: 1/14/2022



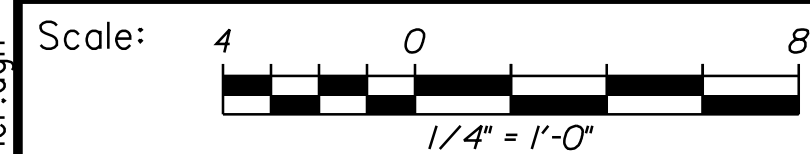
**PLAN**  
Scale: 1/4" = 1'-0"



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



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

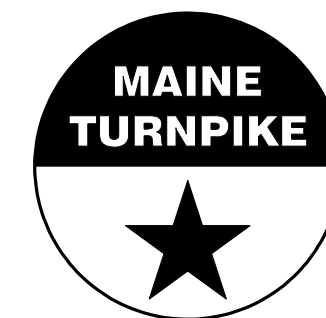


No.	Revision	By	Date

Designed by:



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
PIER REPAIRS

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

VHB: 55345.00

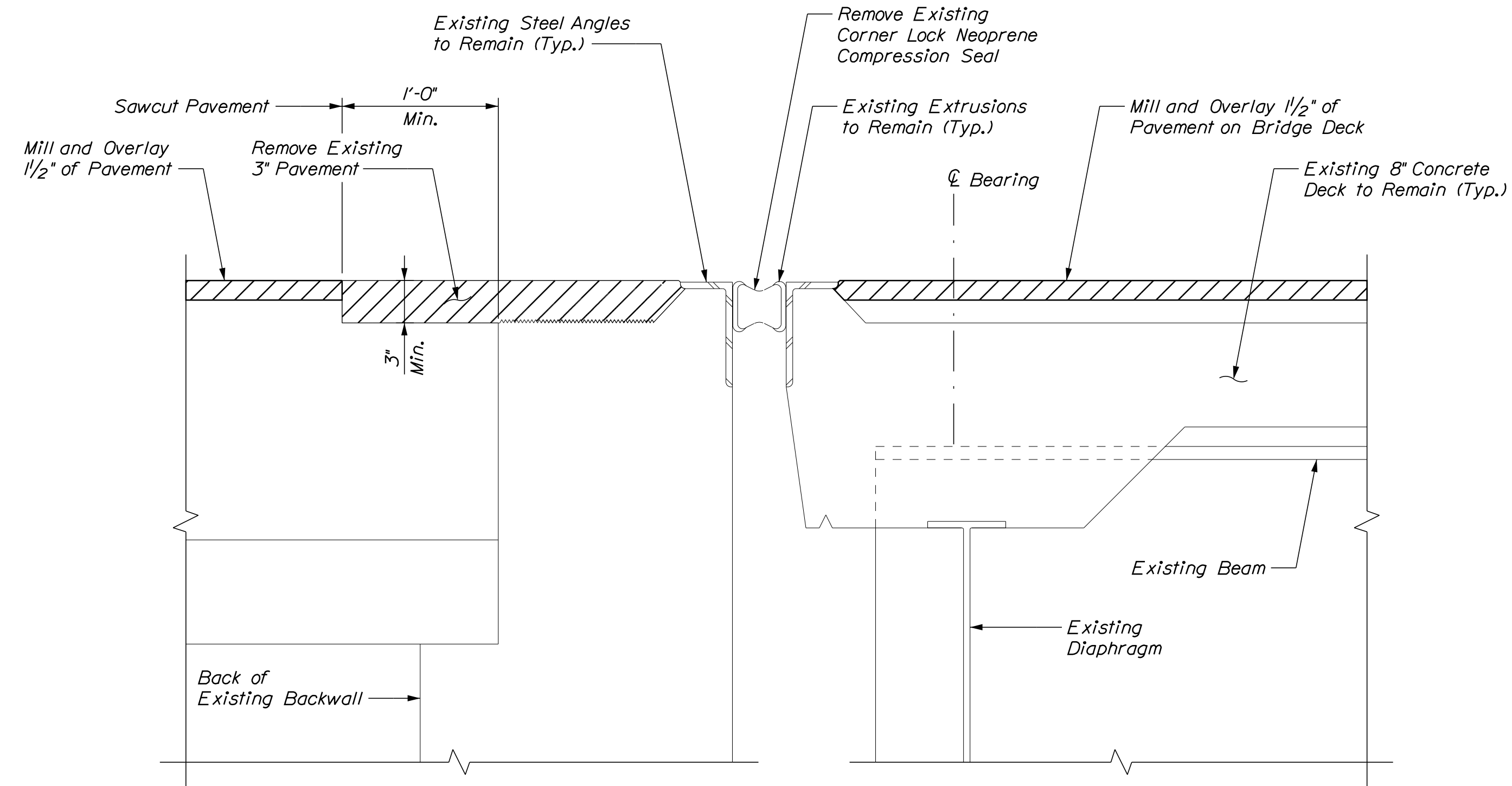
SHEET NUMBER: **89**

CONTRACT: 2022.04

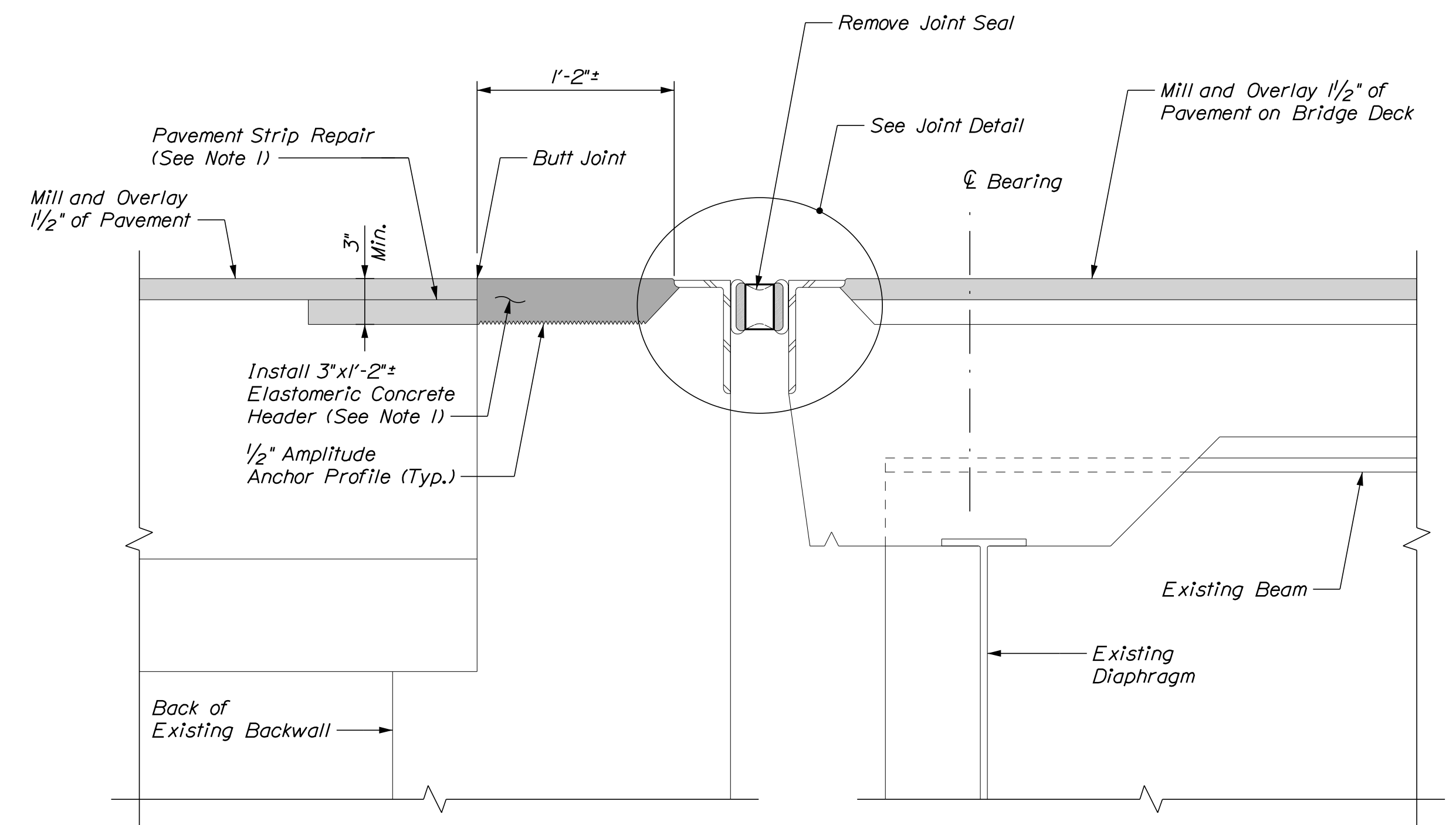
89 OF 117

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

Date: 1/14/2022

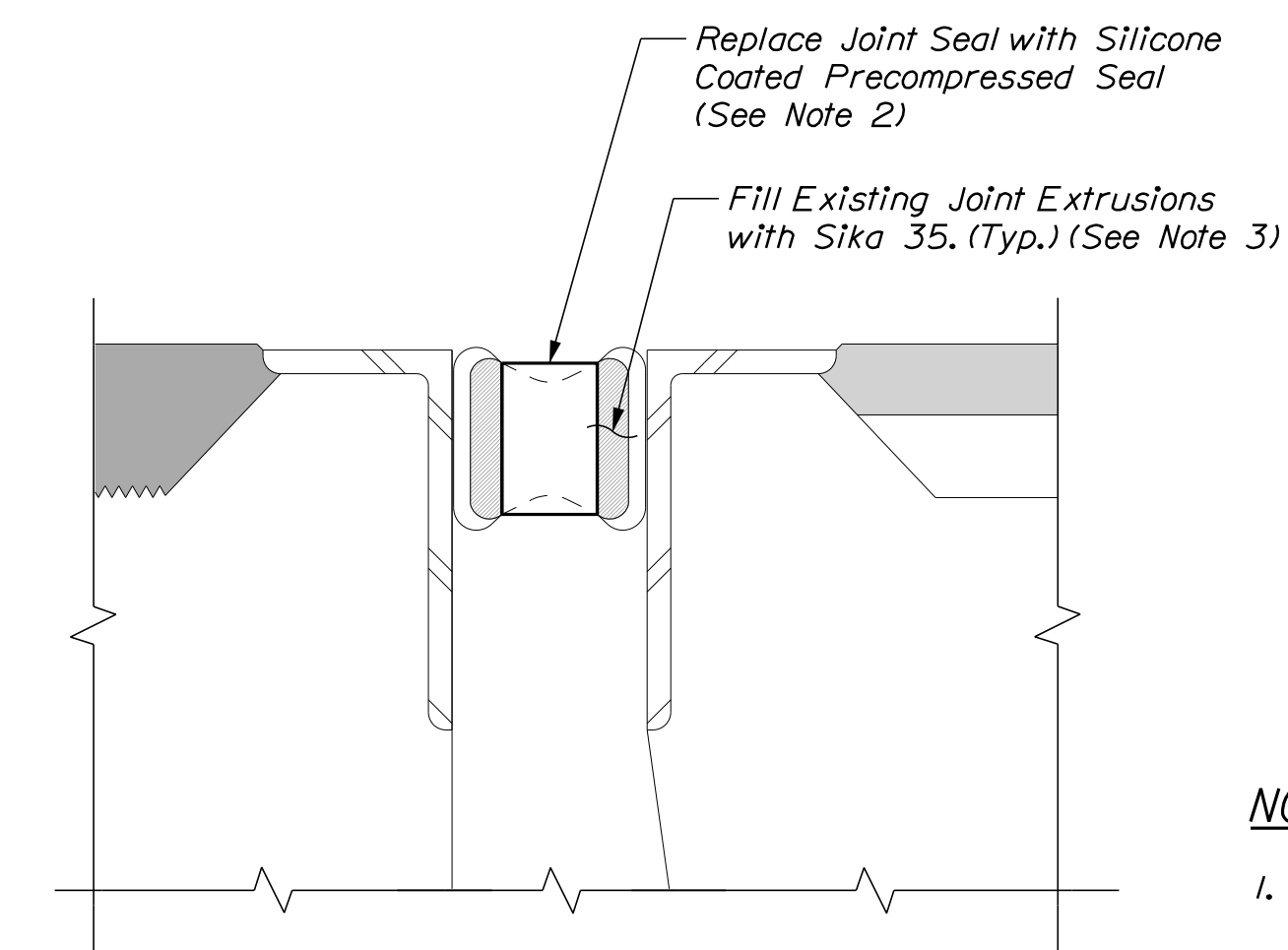


EXISTING EXPANSION JOINT SECTION



PROPOSED EXPANSION JOINT SECTION

SECTIONS AT EXPANSION JOINT  
AT ABUTMENT 1  
Not to Scale




JOINT DETAIL

NOTES

1. Pavement Strip Repair and Elastomeric Concrete Header shall be incidental to Item 520.2406, Bridge Joint Modification (Littlefield Road).
2. Silicone Coated and Pre-Compressed Seal shall be paid under Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal.
3. Filling existing joint extrusions with Sika 35 shall be incidental to Item 520.234, Expansion Device - Silicone Coated and Pre-Compressed Seal.

Scale:			
No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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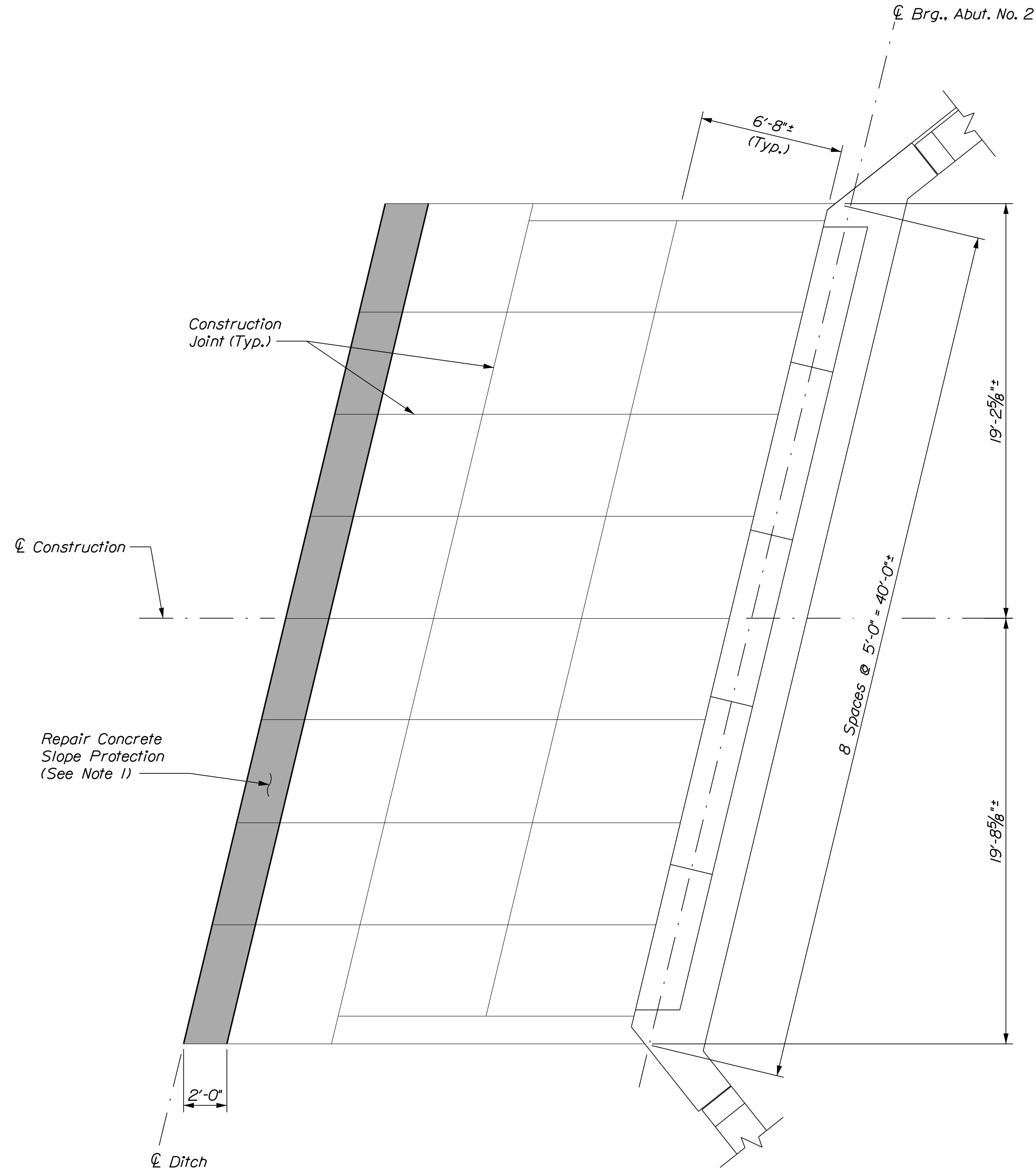
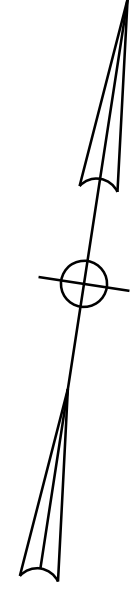
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
BRIDGE JOINT MODIFICATIONS

VHB: 55345.00      SHEET NUMBER: **90**  
CONTRACT: 2022.04      **90 OF 117**

Date: 1/14/2022



**ABUTMENT NO. 2**  
Scale: 1/4" = 1'-0"


**NOTE**

1. The bottom slope protection panel shall be sawcut 2'-0" from existing ground and replaced in-kind as directed by the Resident. Class A Concrete shall be used for replacing concrete slope protection. This work shall be paid for under Item 518.921 Slope Protection Concrete Repairs.



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	MEB	10/29/21	Checked	GME	10/29/21
Drawn	DPD	10/29/21	In Charge of	TSB	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

MTA PROJECT NO. 2022.04  
LITTLEFIELD ROAD UNDERPASS  
AT MM 17.3 IN WELLS, ME  
SLOPE PROTECTION REPAIRS

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: **91**  
91 OF 117

NORTHBOUND EVR EARTHWORK SUMMARY

<b>COMMON EXCAVATION FOR ESTIMATE</b>			
COMMON EXCAVATION (FROM CROSS SECTIONS)		987	
EARTH FROM RAMP REMOVAL		167	
GRUBBING IN FILL		288	
TOTAL COMMON EXCAVATION (for estimate)			1,442
<b>FILL FOR BORROW CALCULATIONS</b>			
COMMON FILL (FROM CROSS SECTIONS)		159	
GRUBBING IN FILL		288	
TOTAL FILL			447
<b>AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS</b>			
(1) TOTAL COMMON EXCAVATION			1,442
DEDUCTIONS:			
GRUBBING IN CUT		579	
GRUBBING IN FILL		288	
(2) TOTAL DEDUCTIONS			867
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)			575
<b>COMPUTATION FOR COMMON BORROW FOR ESTIMATE</b>			
(3)TOTAL FILL			447
TOTAL AVAIL. NON-ROCK EXCAV.	575 x 0.90 =	518	
(4)TOTAL AVAILABLE EXCAVATION			518
SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL			71

SOUTHBOUND EVR EARTHWORK SUMMARY


<b>COMMON EXCAVATION FOR ESTIMATE</b>			
COMMON EXCAVATION (FROM CROSS SECTIONS)		339	
EARTH FROM RAMP REMOVAL		65	
GRUBBING IN FILL		100	
MUCK EXCAVATION		151	
TOTAL COMMON EXCAVATION (for estimate)			655
<b>FILL FOR BORROW CALCULATIONS</b>			
COMMON FILL (FROM CROSS SECTIONS)		152	
GRUBBING IN FILL		100	
MUCK EXCAVATION		151	
TOTAL FILL			403
<b>AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS</b>			
(1) TOTAL COMMON EXCAVATION			655
DEDUCTIONS:			
GRUBBING IN CUT		77	
GRUBBING IN FILL		100	
MUCK EXCAVATION		151	
(2) TOTAL DEDUCTIONS			328
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)			327
<b>COMPUTATION OF GRANULAR BORROW FOR ESTIMATE</b>			
GRANULAR BORROW TO REPLACE MUCK		151	
GRANULAR BORROW =	151 x 1.00 =	151	
<b>COMPUTATION FOR COMMON BORROW FOR ESTIMATE</b>			
(3)TOTAL FILL			403
TOTAL AVAIL. NON-ROCK EXCAV.	327 x 0.90 =	294	
(4)TOTAL AVAILABLE EXCAVATION			294
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION			109
GRANULAR BORROW TO REPLACE MUCK		151	
SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL PLUS GRANULAR BORROW			42

Date:1/14/2022

Filename: ...MSTA\092...Earthworks.dgn

Scale:			
No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

By	Date	By	Date
Designed BMD	10/29/21	Checked ECF	10/29/21
Drawn BMD	10/29/21	In Charge of AG	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
EARTHWORK SUMMARY

VHB: 55345.00 SHEET NUMBER: 92  
 CONTRACT: 2022.04 92 OF 117

**GENERAL CONSTRUCTION**

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) 2014 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.

2. DURING CONSTRUCTION, TRAFFIC WILL BE MAINTAINED AS SHOWN IN THE PLANS AND AS REQUIRED IN THE SPECIAL PROVISIONS.

3. ALL EXISTING DELINEATOR AND MILE MARKER POSTS WITHIN LIMITS OF DISTURBANCE SHALL BE REMOVED AND RESET UPON COMPLETION OF THE CONTRACT. PAYMENT WILL BE MADE UNDER ITEM 606.356I.

4. EXISTING ROW FENCE AND EXISTING CHAIN LINK FENCE AND GATES WITHIN THE LIMITS OF WORK, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT, SHALL BE REMOVED AND DISPOSED. THIS WORK SHALL BE INCIDENTAL TO THE PROPOSED FENCE ITEMS. PROPOSED CHAIN LINK FENCE AND PIPE ENTRY GATE SHALL BE INSTALLED CONTINUOUSLY WITH NO GAPS. IF REQUIRED, CONNECTION FOR PROPOSED FENCE TO EXISTING FENCE SHALL BE INCIDENTAL TO THE CONTRACT.

5. THE PROPOSED ELEVATIONS ARE BASED ON THE NAVD 88 DATUM.

6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID IMPACTS BEYOND WHAT IS SHOWN IN THESE PLANS TO DELINEATED WETLAND AREAS.

**EARTHWORK**

1. THE CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS. THE ACTUAL CLEARING LINES SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND SHALL BE APPROVED BY THE RESIDENT PRIOR TO ANY CLEARING TAKING PLACE. ALL CLEARING SHALL BE DONE WITHIN THE ROW. NO CLEARING SHALL TAKE PLACE IN JUNE OR JULY.

2. THE NORMAL GRUBBING WIDTH IN THE FILLS SHALL BE VARIABLE LEFT OR RIGHT, WHEN SUBGRADE IS LESS THAN 5' ABOVE OLD GROUND. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 12".

3. MUCK EXCAVATION HAS BEEN ESTIMATED IN ALL WETLAND AREAS AT A 2' DEPTH. THE CONTRACTOR SHALL CONFIRM WITH THE RESIDENT THE ACTUAL LIMITS AND DEPTH BEFORE PLACING ANY AGGREGATE.

4. WASTE MATERIALS SHALL BE DISPOSED OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.

5. 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).

6. THE CONTRACTOR SHALL MINIMIZE SLOPE DISTURBANCES WHERE POSSIBLE, AS DIRECTED BY THE RESIDENT.

7. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION, IN LOW WET AREAS 1' ABOVE WATER LEVEL, OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19.

**GUARDRAIL**

1. COMPOSITE OFFSET BLOCKS SHALL BE USED WITH GUARDRAIL.

2. AT THE END OF EACH WORK DAY, ALL GUARDRAIL WITHIN WORK AREAS ACCESSIBLE TO TRAFFIC SHALL HAVE AN APPROVED CRASHWORTHY END TREATMENT.

3. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.

4. CONTRACTOR SHALL STOCKPILE ALL GUARDRAIL TO BE REMOVED AND RESET, AND REMOVED AND DISPOSED UNTIL GUARDRAIL INSTALLATION HAS BEEN COMPLETED.

5. POST HOLES FROM GUARDRAIL REMOVED OR RESET SHALL BE FILLED AND COMPACTED WITH GRANULAR BORROW AND PAVEMENT TO MATCH SURROUNDING PAVEMENT THICKNESS.

**DRAINAGE**

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

2. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

3. ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.

4. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19 AND BE PAID FOR AS 203.25 GRANULAR BORROW.

**EROSION CONTROL**

1. THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL DEVICES MAY BE PROPOSED BY THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.

2. 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.

3. ALL SLOPES SHALL BE SEEDED WITH SEEDING METHOD #2.

4. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.

5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.

6. TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES. STONE CHECK DAMS SHALL BE SPACED APPROXIMATELY 100 FEET FOR DITCH GRADES LESS THAN 3% AND SPACED APPROXIMATELY 50 FEET FOR DITCH GRADES STEEPER THAN 5%. SEE MAINEDOT BEST MANAGEMENT PRACTICES FOR FURTHER DETAILS.

7. EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED ON 2:1 SLOPES FROM THE TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6' WIDE OR AS DESIGNATED BY THE RESIDENT.

**UTILITY**

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CONTACT DIG SAFE (1-888-DIG-SAFE OR 811) PRIOR TO STARTING WORK. IN ADDITION, DIG SMART OF MAINE SHALL BE CONTACTED PRIOR TO STARTING ANY WORK WITHIN MTA RIGHT-OF-WAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS. PROOF OF UTILITY LOCATION FROM BOTH DIG SAFE AND DIG SMART (WHEN APPLICABLE) SHALL BE SUBMITTED PRIOR TO THE COMMENCEMENT OF ANY WORK.

2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.

3. THE UTILITIES INVOLVED IN THIS CONTRACT ARE: CENTRAL MAINE POWER (CMP) CONSOLIDATED COMMUNICATIONS KENNEBUNK & WELLS WATER DISTRICT CHARTER COMMUNICATIONS, INC.

4. GRADING AROUND UTILITY POLES AND GUY WIRES, EXISTING OR PROPOSED, SHALL BE DONE BY HAND.

**ITEM 603.179 - 18" CULVERT PIPE OPTION III HDPE ONLY**

LOCATION	QUANTITY (LF)
LITTLEFIELD RD NB EVR 30-38	38
35-50	50
LITTLEFIELD RD SB EVR 41-56.96	30

**ITEM 606.242 - GUARDRAIL TYPE 3D - OVER 15' RADIUS**

STATION TO STATION	OFFSET	RADIUS	QUANTITY (LF)
LITTLEFIELD RD SB EVR 40-17 TO 40-27	LT	30'	25

**ITEM 606.265 - TERMINAL END - SINGLE RAIL GALVANIZED STEEL**

STATION	OFFSET	QUANTITY (EA)
LITTLEFIELD RD SB EVR 40-36	LT	1

**ITEM 606.278 - TERMINAL END - ANCHORED END**

STATION TO STATION	OFFSET	QUANTITY (EA)
LITTLEFIELD RD SB EVR 40-27 TO 40-36	LT	1

**ITEM 606.353 - REFLECTORIZED FLEXIBLE GUARDRAIL MARKER**

STATION	OFFSET	QUANTITY (EA)
LITTLEFIELD RD SB EVR 40-36	LT	2

**ITEM 606.363I - GUARDRAIL REMOVE AND DISPOSE**

STATION	QUANTITY (LF)
LITTLEFIELD RD SB EVR 40-17	25

**ITEM 607.17 - CHAIN LINK FENCE - 6 FOOT**

STATION TO STATION	OFFSET	QUANTITY (LF)
LITTLEFIELD RD NB EVR 34-84 TO 34-86	RT	20
34-86 TO 35-02	LT	20

**ITEM 607.2325 - PIPE ENTRY GATE**

STATION	QUANTITY (EA)
LITTLEFIELD RD NB EVR 34-86	1
LITTLEFIELD RD SB EVR 45-47	1

**ITEM 610.08 - PLAIN RIPRAP**

STATION	OFFSET	QUANTITY (CY)
LITTLEFIELD RD NB EVR 30-33	RT	1.2
30-40	LT	0.9
35-25	LT	8.3
35-50	LT	1.2
35-50	RT	1.2
LITTLEFIELD RD SB EVR 41-56.96	LT	1.0
41-56.96	RT	1.0

**ITEM 610.181 - TEMPORARY STONE CHECK DAM**

STATION	OFFSET	QUANTITY (CY)
LITTLEFIELD RD NB EVR 30-40 TO 35-45	LT	8.0
31-50 TO 35-45	RT	6.0

**ITEM 613.319 - EROSION CONTROL BLANKET**

STATION TO STATION	OFFSET	QUANTITY (SY)
LITTLEFIELD RD NB EVR 30-40 TO 35-50	LT	356
31-50 TO 35-50	RT	293
35-50 TO 35-60	LT	9
NEAR FORMER RAMP GATE LITTLEFIELD RD SB EVR 41-48 TO 42-75	LT	68

**ITEM 620.58 - EROSION CONTROL GEOTEXTILE**

STATION	OFFSET	QUANTITY (SY)
LITTLEFIELD RD NB EVR 30-33	RT	7.9
30-40	LT	5.4
35-25	LT	17.4
35-50	LT	8.8
35-50	RT	7.1
LITTLEFIELD RD SB EVR 41-56.96	LT	4.4
41-56.96	RT	4.7


**ITEM 656.632 - 30' TEMPORARY SILT FENCE**

STATION TO STATION	OFFSET	QUANTITY (LF)
LITTLEFIELD RD NB EVR 30-15 TO 30-75	RT	77
30-15 TO 32-50	LT	189
31-00 TO 35-76	RT	500
35-31 TO 35-76	LT	52
LITTLEFIELD RD SB EVR 40-38 TO 46+14.56	RT	67.3
45-50 TO 46+14.56	LT	79

Date: 1/14/2022

Filename: ... \MSTA\093\_Gen\_Const\_1\_Notes.dgn

Scale:				
No.	Revision	By	Date	

Designed by:				
				
CONSULTANT PROJECT MANAGER: G. Edington				
	By	Date		Date
Designed	BMD	10/29/21	Checked	ECF 10/29/21
Drawn	BMD	10/29/21	In Charge of	AG 10/29/21

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 500 Southborough Dr.  
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 South Portland, ME 04106  
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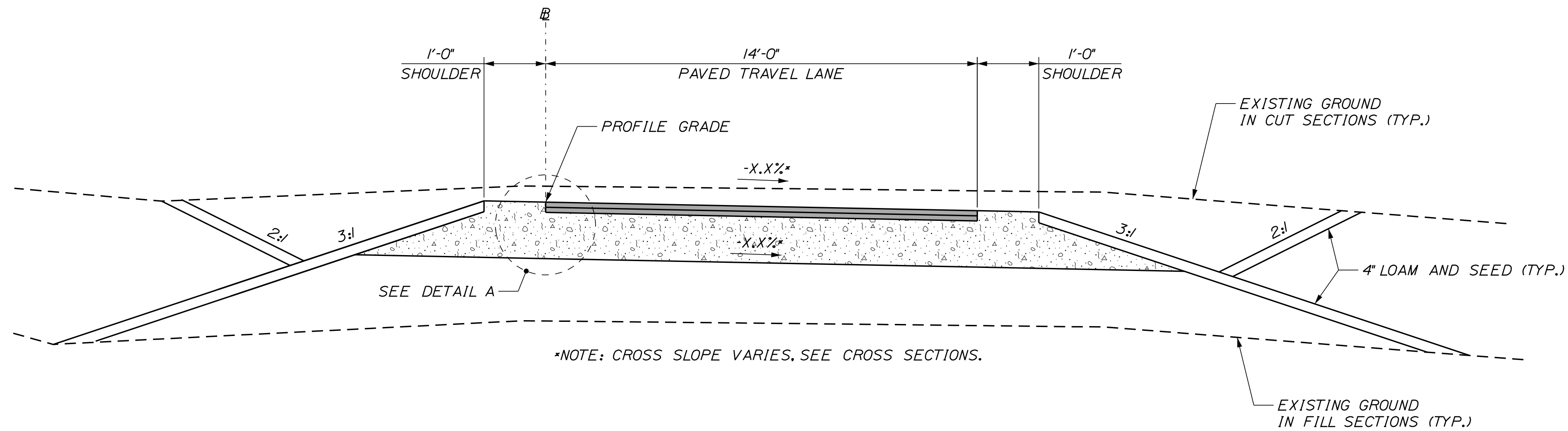
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

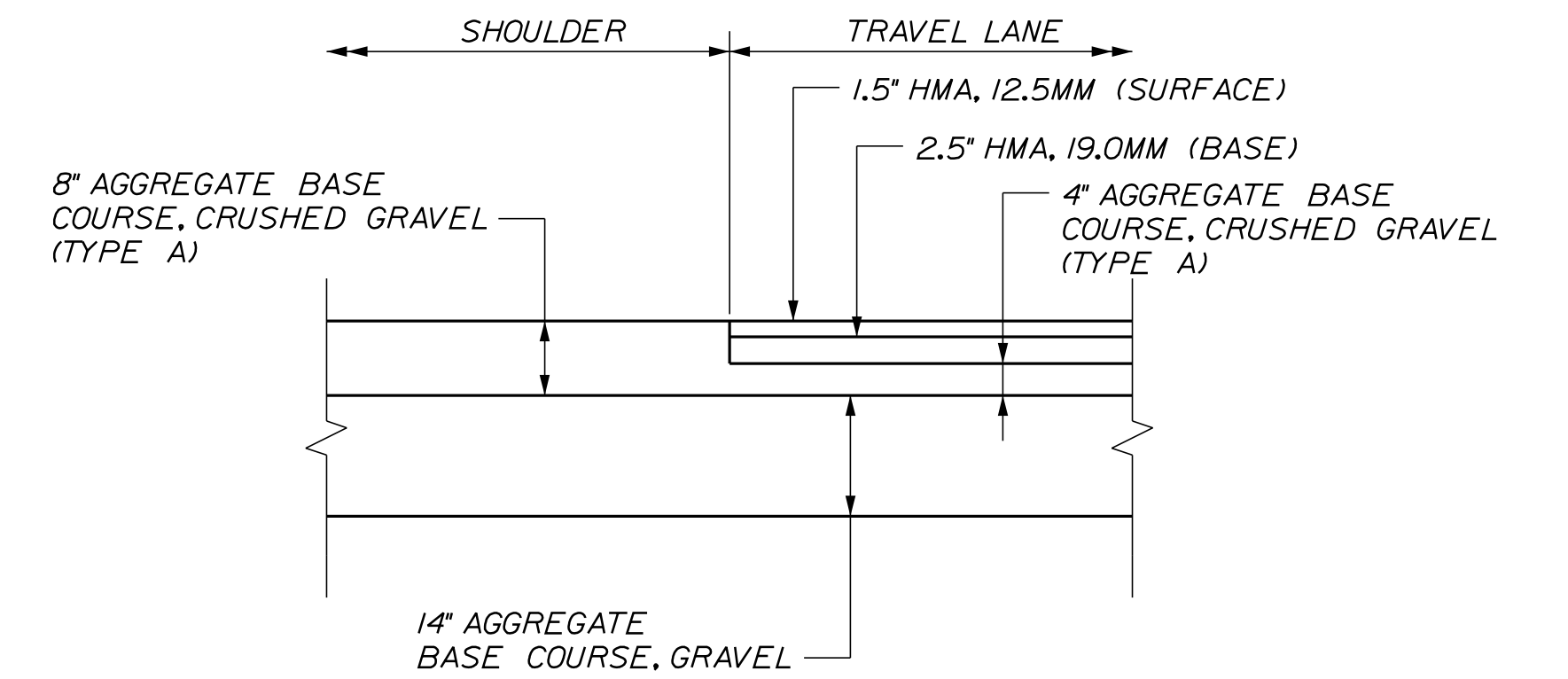
LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
GENERAL AND CONSTRUCTION NOTES

VHB: 55345.00 SHEET NUMBER: 93  
 CONTRACT: 2022.04 93 OF 117

Date: 1/14/2022



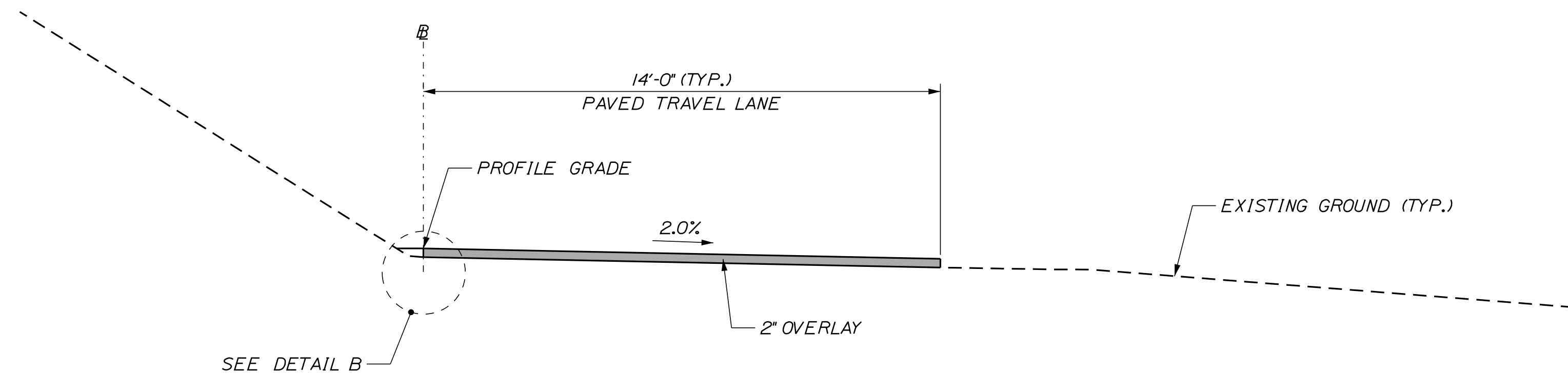
**EMERGENCY VEHICLE RAMP  
FULL CONSTRUCTION TYPICAL SECTION**



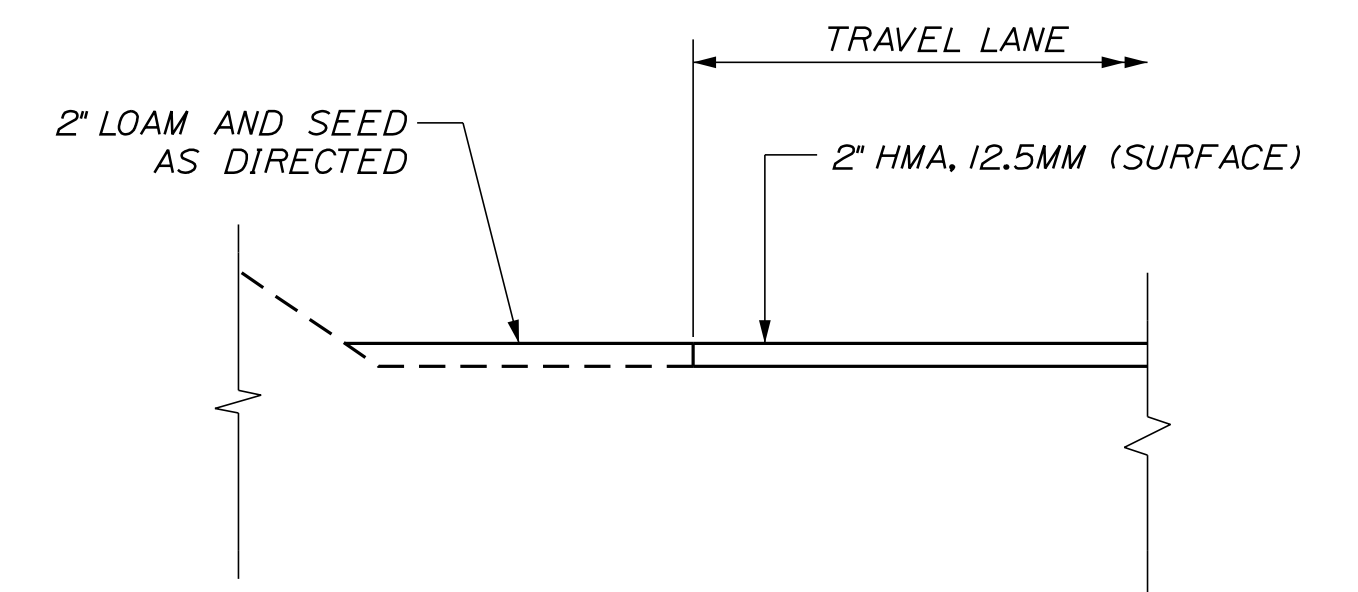
**DETAIL A**

**TYPICAL EMERGENCY VEHICLE RAMP SECTION NOTES**

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON PLANS ARE INTENDED TO BE NOMINAL.
2. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER AS TO LEAVE A CLEAN VERTICAL FACE. SAWCUT SHALL BE PAID FOR UNDER ITEM 419.30, SAWCUT BITUMINOUS PAVEMENT.  
*BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF*
3. PAVEMENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.



**EMERGENCY VEHICLE RAMP  
OVERLAY TYPICAL SECTION**




**DETAIL B**

Filename: ...MSTA\094\_Road\_Typ\_01.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
TYPICAL ROADWAY SECTIONS

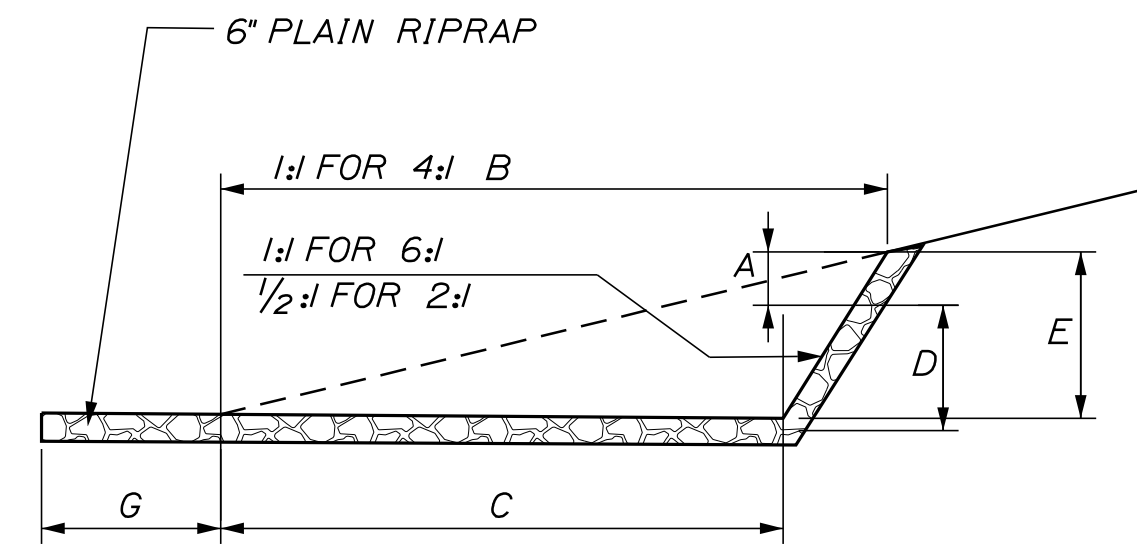
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 94  
94 OF 117

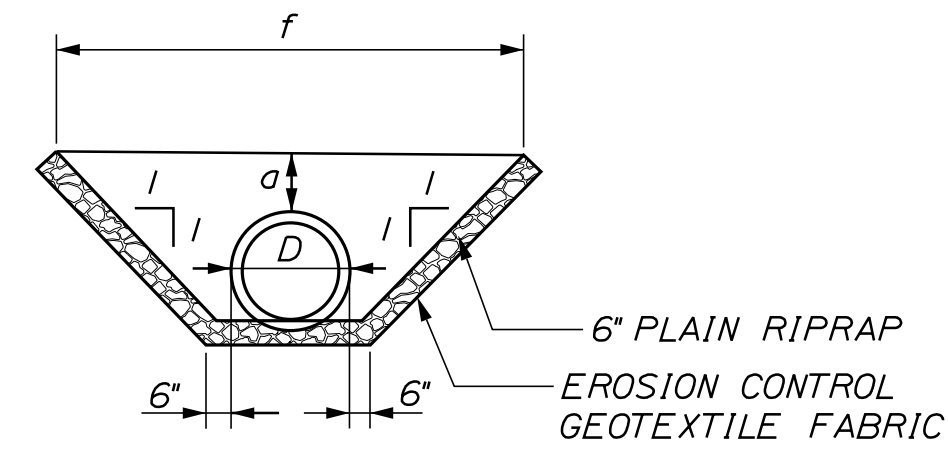
Date: 1/14/2022

**DIMENSIONS FOR SLOPE OF 2:1**

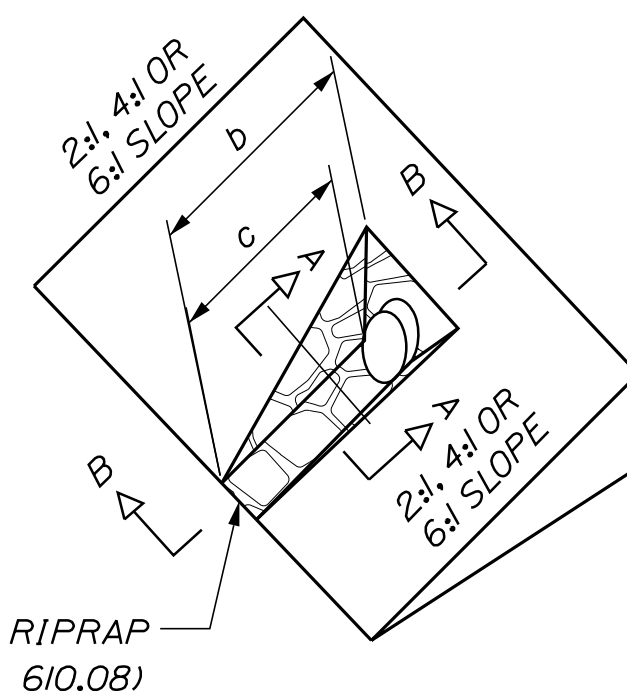
D	A (FT)	B (FT)	C (FT)	E (FT)	F (FT)	G (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	0.50	0.43
15"	1.00	4.50	3.37	2.25	6.75	1.63	0.50	0.57
18"	1.00	5.00	3.75	2.50	7.50	2.25	0.50	0.70
24"	1.00	6.00	4.50	3.00	9.00	3.50	0.50	1.04
30"	1.00	7.00	5.25	3.50	10.50	4.75	0.50	1.44



**SECTION B-B**



**SECTION A-A**



**DIMENSIONS FOR SLOPE OF 4:1**

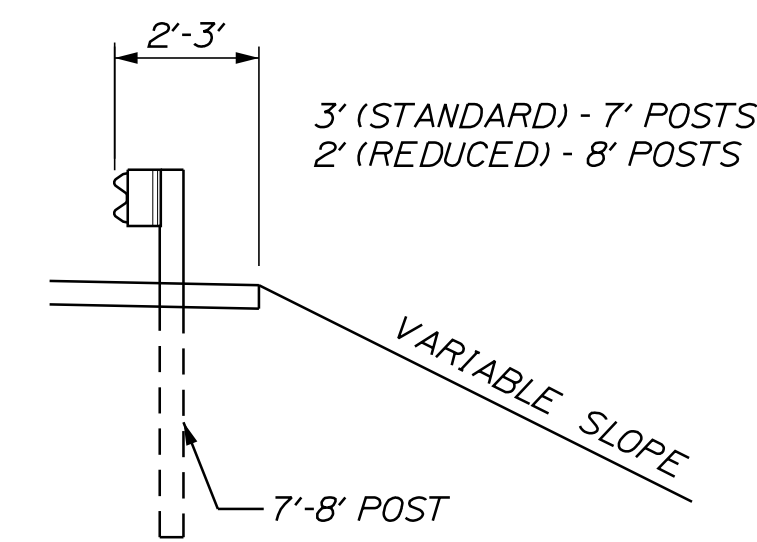
D	A (FT)	B (FT)	C (FT)	E (FT)	F (FT)	G (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	8.00	6.00	2.00	6.00	0.00	0.50	0.73
15"	1.00	9.00	6.75	2.25	6.75	0.00	0.50	0.93
18"	1.00	10.00	7.50	2.50	7.50	0.00	0.50	1.13
24"	1.00	12.00	9.00	3.00	9.00	0.00	0.50	1.62
30"	1.00	14.00	10.50	3.50	10.50	0.00	0.50	2.19

**DIMENSIONS FOR SLOPE OF 6:1**

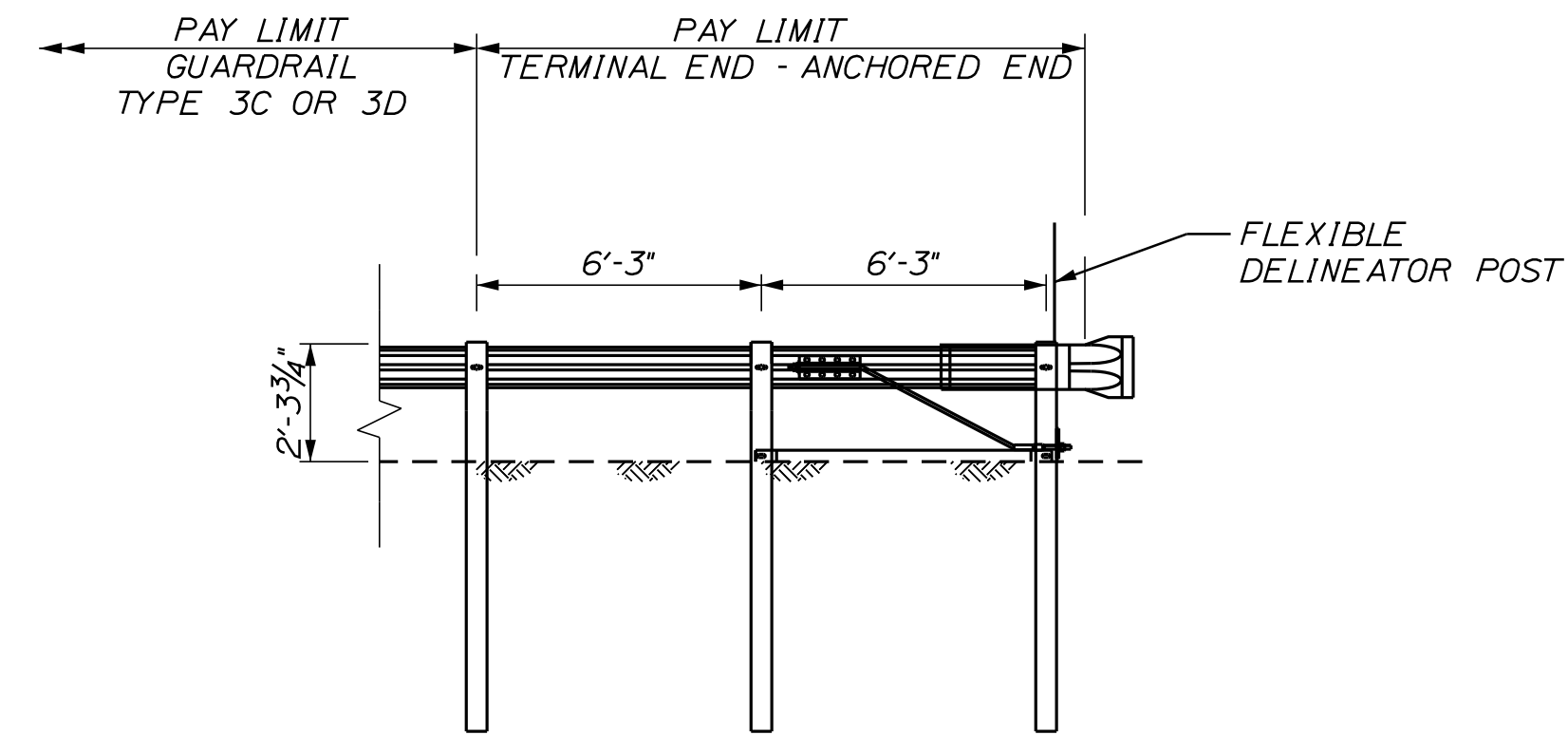
D	A (FT)	B (FT)	C (FT)	E (FT)	F (FT)	G (FT)	STONE DEPTH (FT)	STONE (CY)
12"	0.50	9.00	7.50	1.50	4.50	0.00	0.50	0.77
15"	0.50	10.50	8.75	1.75	5.50	0.00	0.50	0.98
18"	0.50	12.00	10.00	2.00	6.50	0.00	0.50	1.19
24"	0.50	15.00	12.50	2.50	8.00	0.00	0.50	1.81
30"	0.50	18.00	15.00	3.00	9.50	0.00	0.50	2.57

**NOTES:**

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



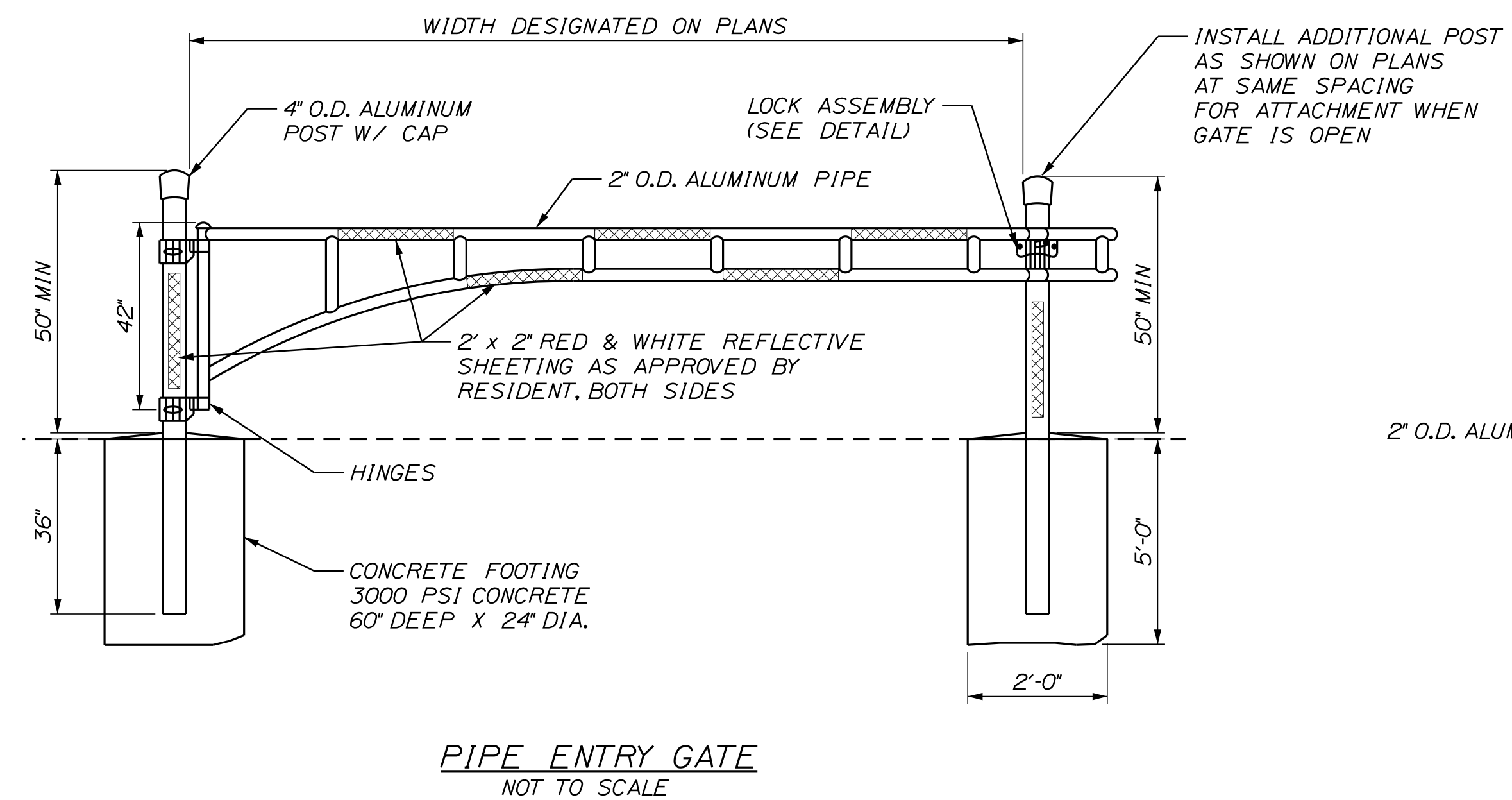
**CROSS SECTION**



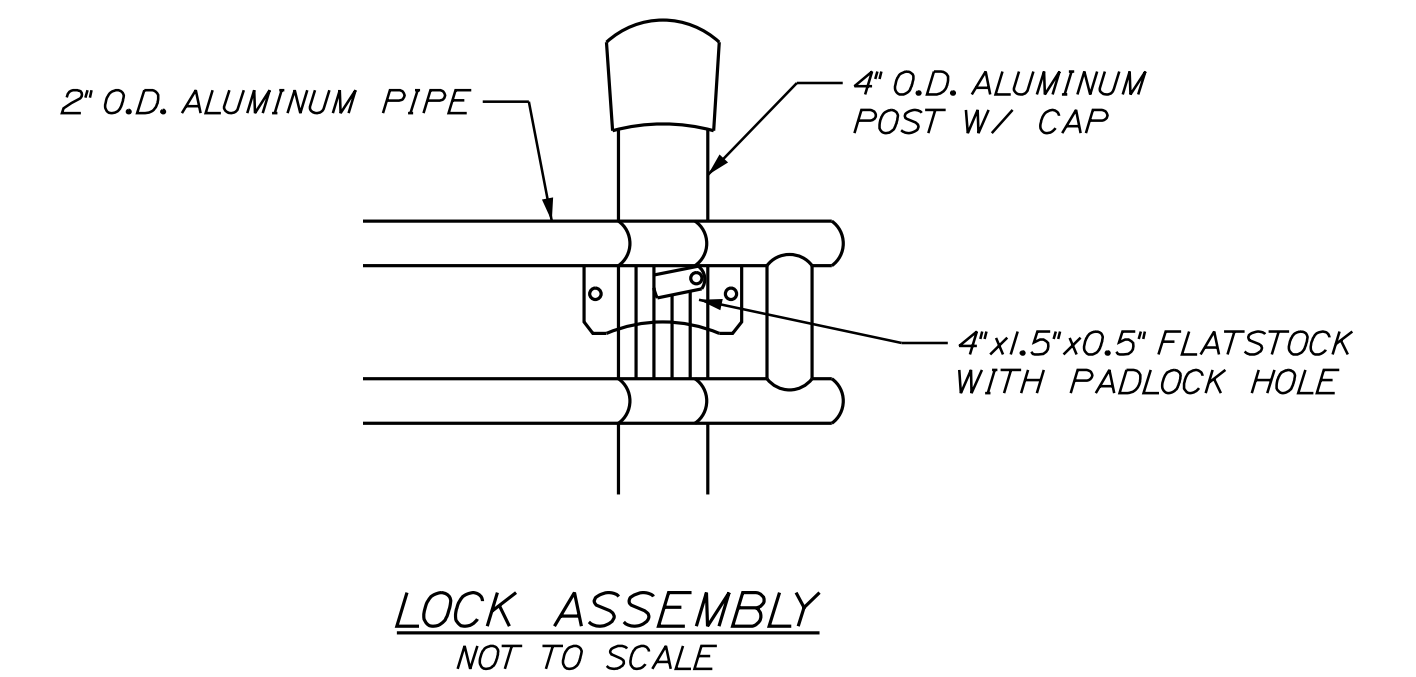
**TERMINAL END - ANCHORED END (ITEM 606.278) NOT TO SCALE**

**ROADWAY CULVERT END SLOPE TREATMENT NOT TO SCALE**

SIGN SUMMARY			
Sign	Text Dimensions (Inches)		Quantity and Color
	Letter Height	Vertical Spacing	
R1-I		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012	12 - WHITE ON RED
R5-II			14 - BLACK ON WHITE
R6-IR			6 - BLACK ON WHITE



**PIPE ENTRY GATE NOT TO SCALE**



**LOCK ASSEMBLY NOT TO SCALE**

Filename: ...095\_Details\_01\_Drainage-CR.dgn

Scale:			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: G. Edington			
	By	Date	
	BMD	10/29/21	
	Checked	ECF	10/29/21
	By	Date	
	BMD	10/29/21	
	In Charge of	AG	10/29/21

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 500 Southborough Dr.  
 Suite 105B  
 South Portland, ME 04106  
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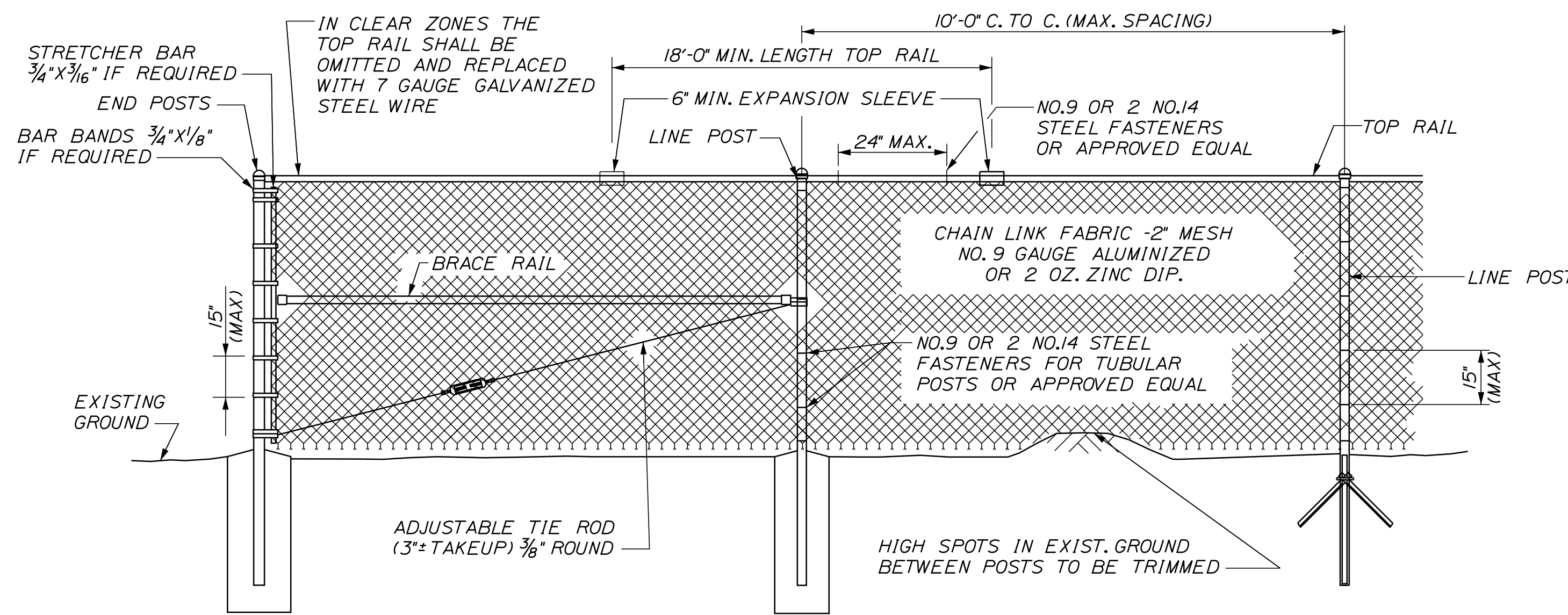
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

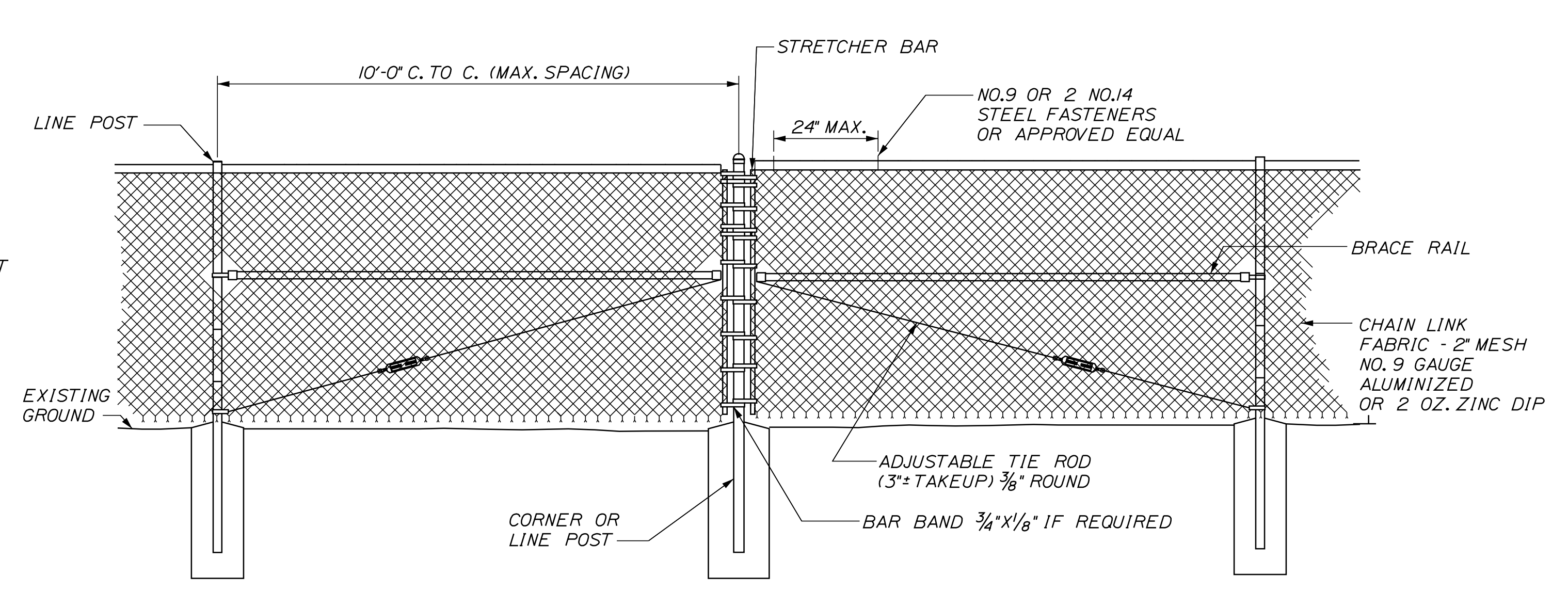
LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 DETAILS & SIGN SUMMARY

VHB: 55345.00      SHEET NUMBER: 95  
 CONTRACT: 2022.04      95 OF 117

Date: 1/14/2022

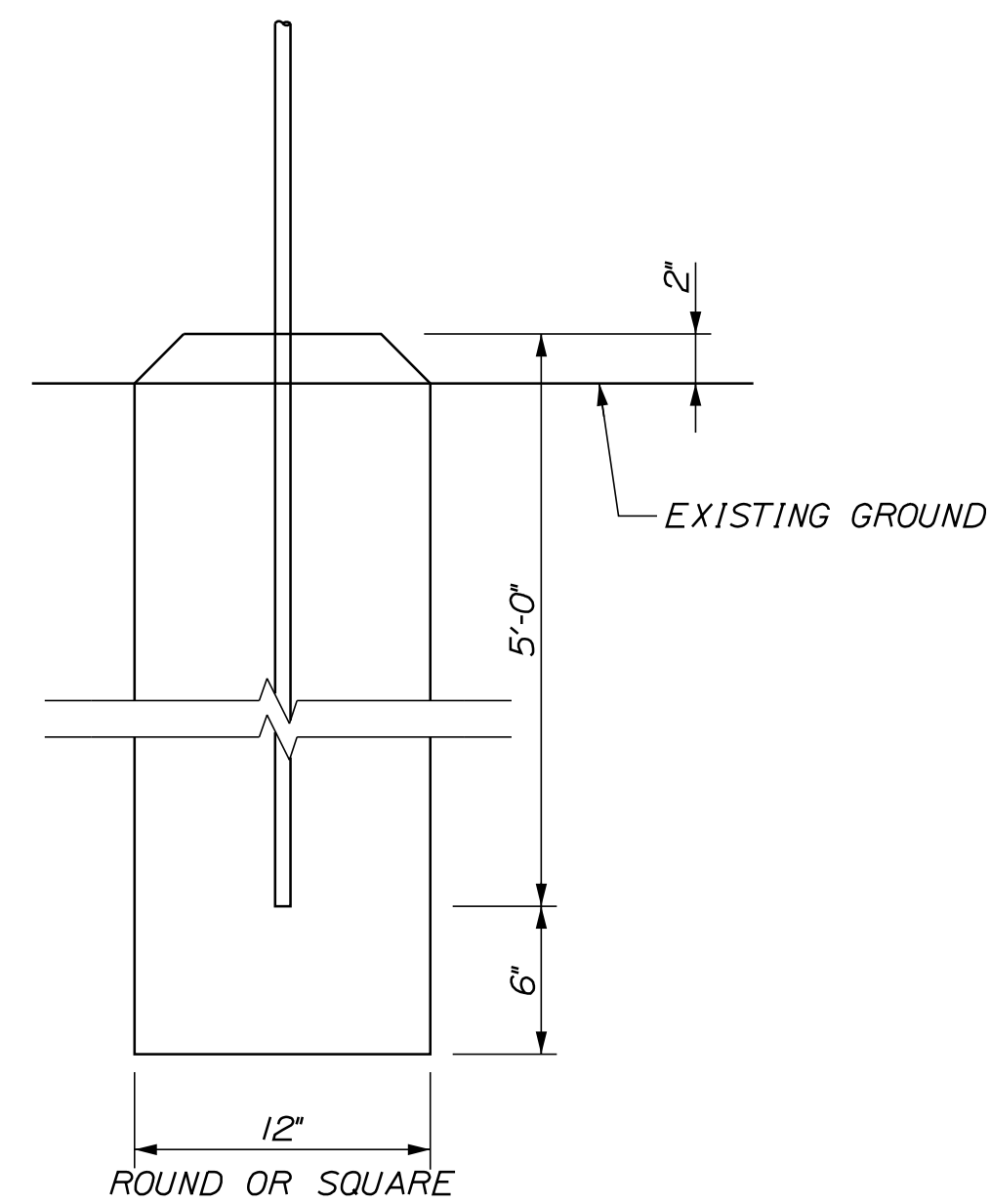


**TYPICAL TYPE I END PANEL**  
N.T.S.

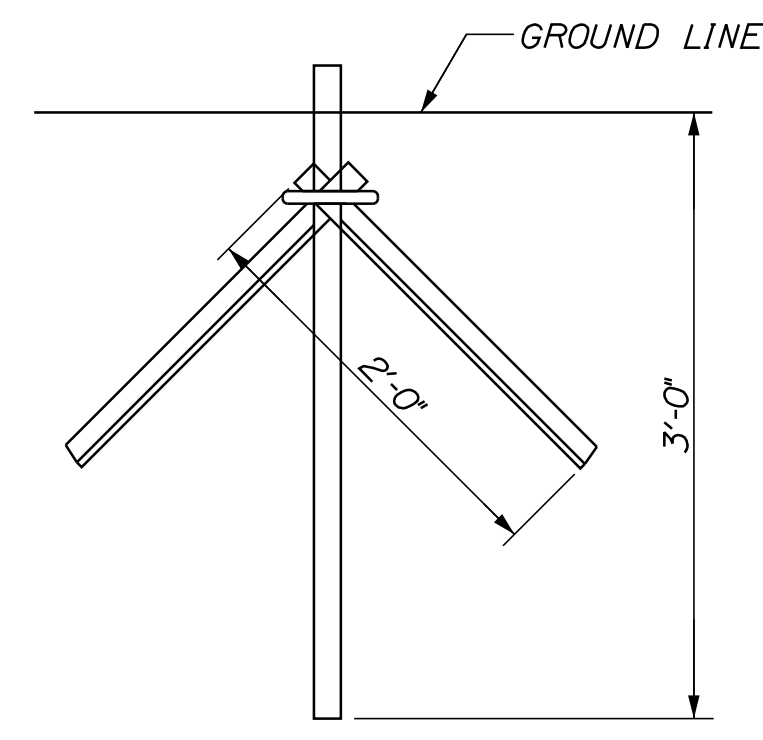


**TYPICAL TYPE II BRACE PANEL**  
N.T.S.

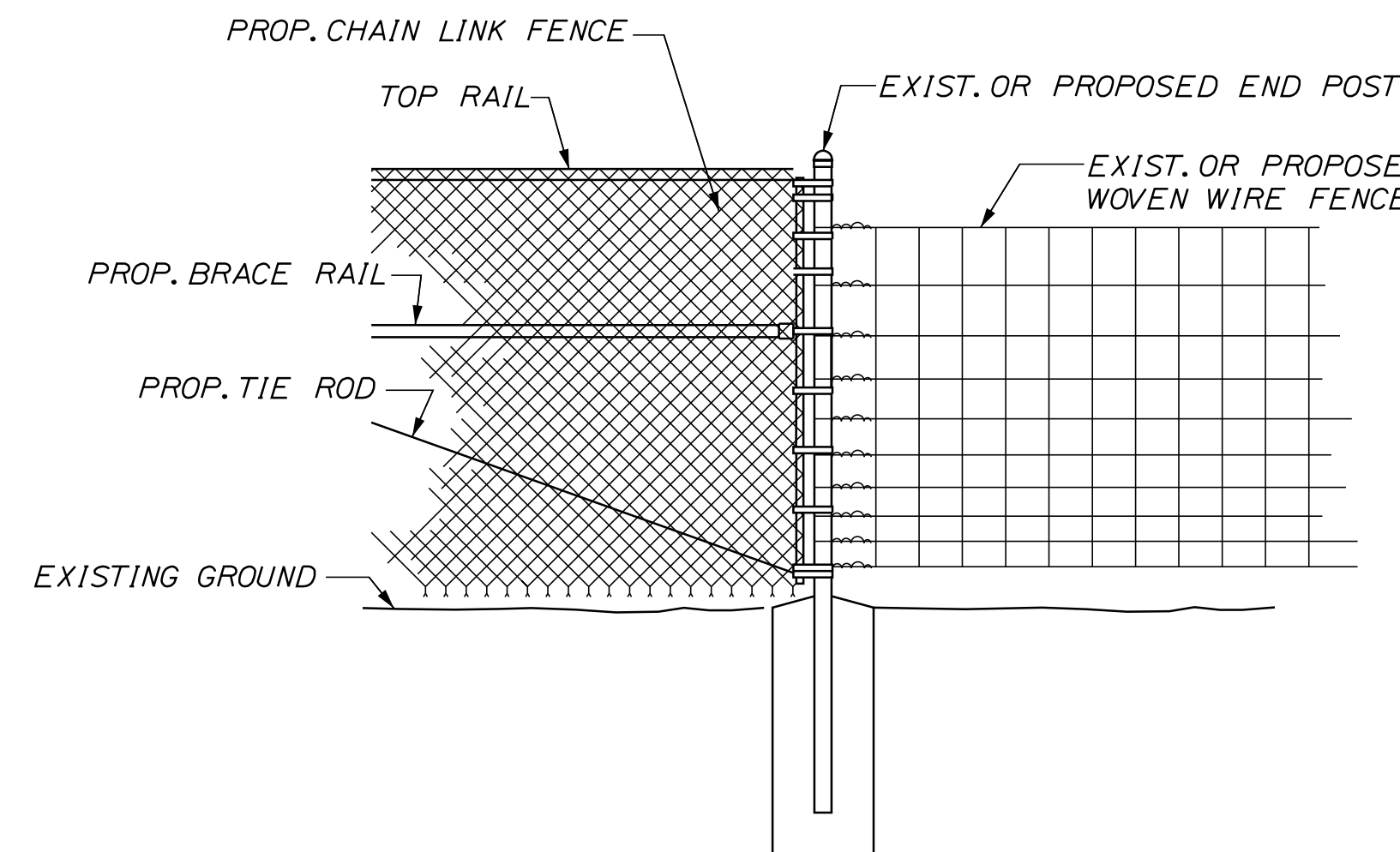
**TYPICAL INTERMEDIATE PANEL**  
N.T.S.



**BRACE, GATE AND END POST BASE DETAIL**  
N.T.S.



**LINE POST DRIVE ANCHOR DETAIL**  
N.T.S.



**METHOD OF ATTACHING CHAIN LINK FENCE TO WOVEN WIRE FENCE**  
N.T.S.

BENDING MOMENTS BASED ON GRADE 1 (SCHEDULE 40 STEEL)

CHAIN LINK FENCE	SHAPE	NOMINAL SIZE (INCHES)	BENDING MOMENT* (LBS.-IN.)
END & CORNER POSTS	φ	2 I.D.	14,025
LINE POSTS	φ	1-1/2 I.D.	8,150
TOP & BRACE RAILS	φ	1-1/4 I.D.	5,875


\* MATERIAL FOR GRADE 2 END, CORNER & LINE POSTS AND TOP & BRACE RAILS MUST MEET OR EXCEED BENDING MOMENTS FOR GRADE 1 STEEL AS NOTED ABOVE.

**NOTES**


- BRACE PANELS SHALL BE INSTALLED WHERE THE CHANGE IN GRADE BETWEEN ANY THREE POSTS EXCEEDS 15 PERCENT.
- NO ADDITIONAL PAYMENT WILL BE MADE FOR LONGER POSTS NECESSITATED BY LARGE GRADE DIFFERENTIAL.
- TYPE I BRACING WILL BE USED AT FENCE ENDS. TYPE II BRACING WILL BE USED AT CORNER POSTS.
- WHEN LEDGE IS ENCOUNTERED, STEEL POSTS SHALL BE SET AND GROUTED 12" DEEP UNLESS THE POSTS PENETRATE THE GROUND TO THE DEPTH INDICATED ON THE DRAWINGS.
- CONCRETE FOR POST FOUNDATION SHALL BE CLASS B.
- BRACE, GATE AND END POSTS SHALL BE SET IN CONCRETE.
- CHAIN LINK FENCE SHALL BE INSTALLED WITH BARBS DOWN.
- ALL COMPONENTS OF CHAIN LINK FENCE SHALL BE IN ACCORDANCE WITH AASHTO M181.

Filename: ...MSTA\096\_Details\_02\_Fence.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by: 					
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

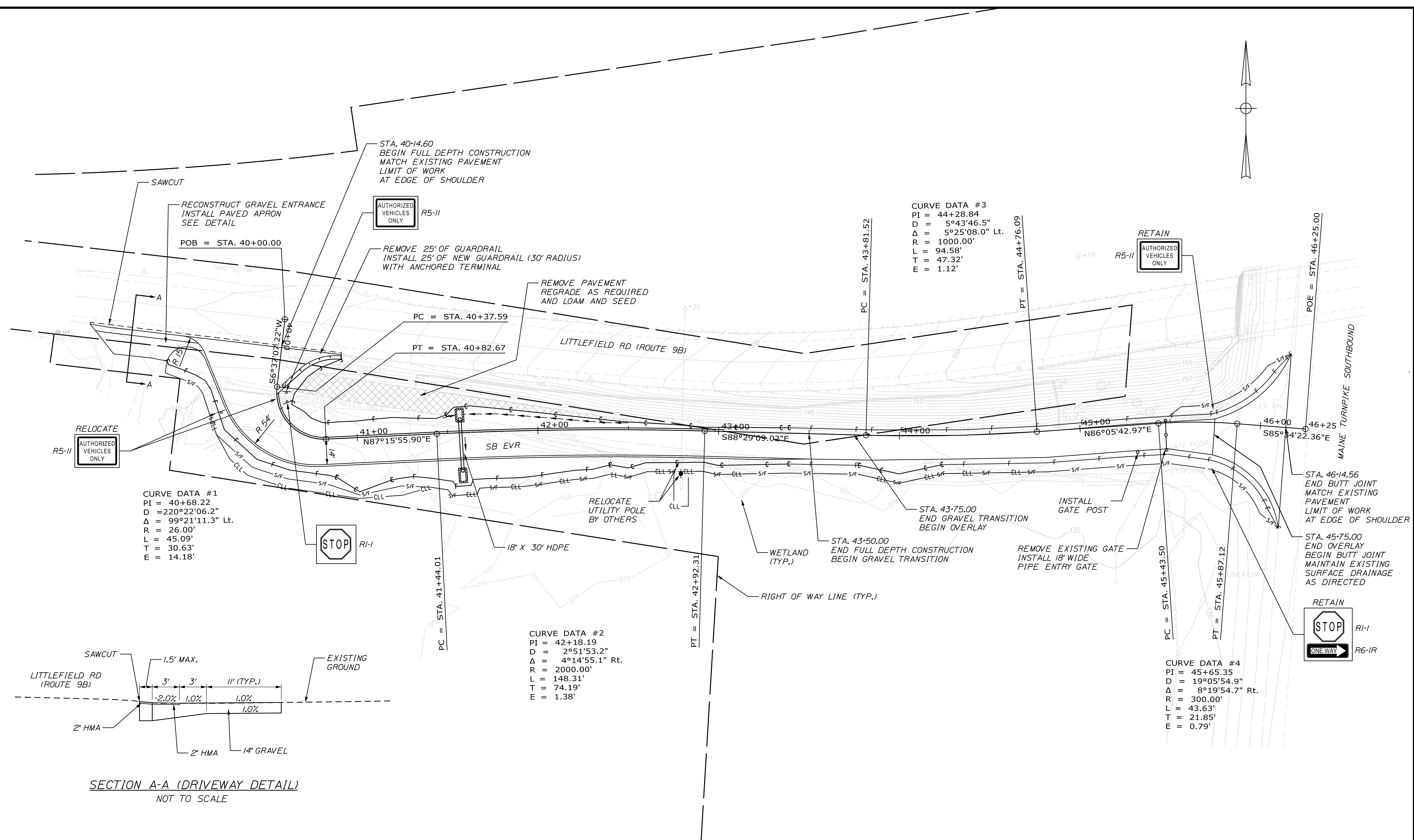
LITTLEFIELD ROAD EMERGENCY VEHICLE RAMPS FENCING DETAILS	
VHB: 55345.00	SHEET NUMBER: 96
CONTRACT: 2022.04	96 OF 117





Date: 1/14/2022

Filename: ...098\_HDPlan\_LittlefieldRd\_SB.dgn

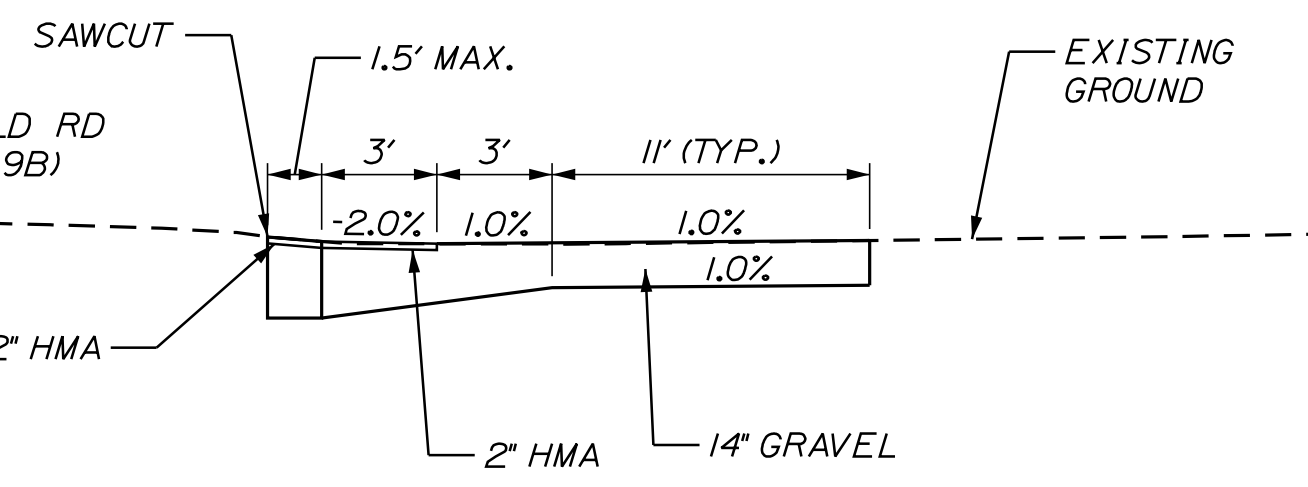


**CURVE DATA #1**  
 PI = 40+68.22  
 D = 220°22'06.2"  
 Δ = 99°21'11.3" Lt.  
 R = 26.00'  
 L = 45.09'  
 T = 30.63'  
 E = 14.18'

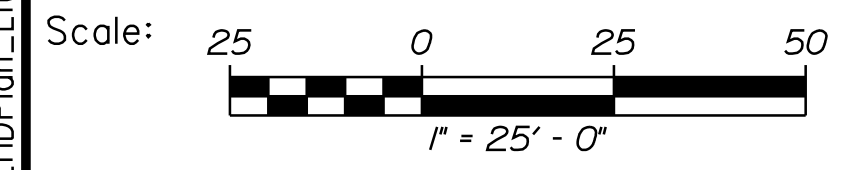
**CURVE DATA #3**  
 PI = 44+28.84  
 D = 5°43'46.5"  
 Δ = 5°25'08.0" Lt.  
 R = 1000.00'  
 L = 94.58'  
 T = 47.32'  
 E = 1.12'

**CURVE DATA #2**  
 PI = 42+18.19  
 D = 2°51'53.2"  
 Δ = 4°14'55.1" Rt.  
 R = 2000.00'  
 L = 148.31'  
 T = 74.19'  
 E = 1.38'


**CURVE DATA #4**  
 PI = 45+65.35  
 D = 19°05'54.9"  
 Δ = 8°19'54.7" Rt.  
 R = 300.00'  
 L = 43.63'  
 T = 21.85'  
 E = 0.79'



SECTION A-A (DRIVEWAY DETAIL)  
 NOT TO SCALE



Designed by:



No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

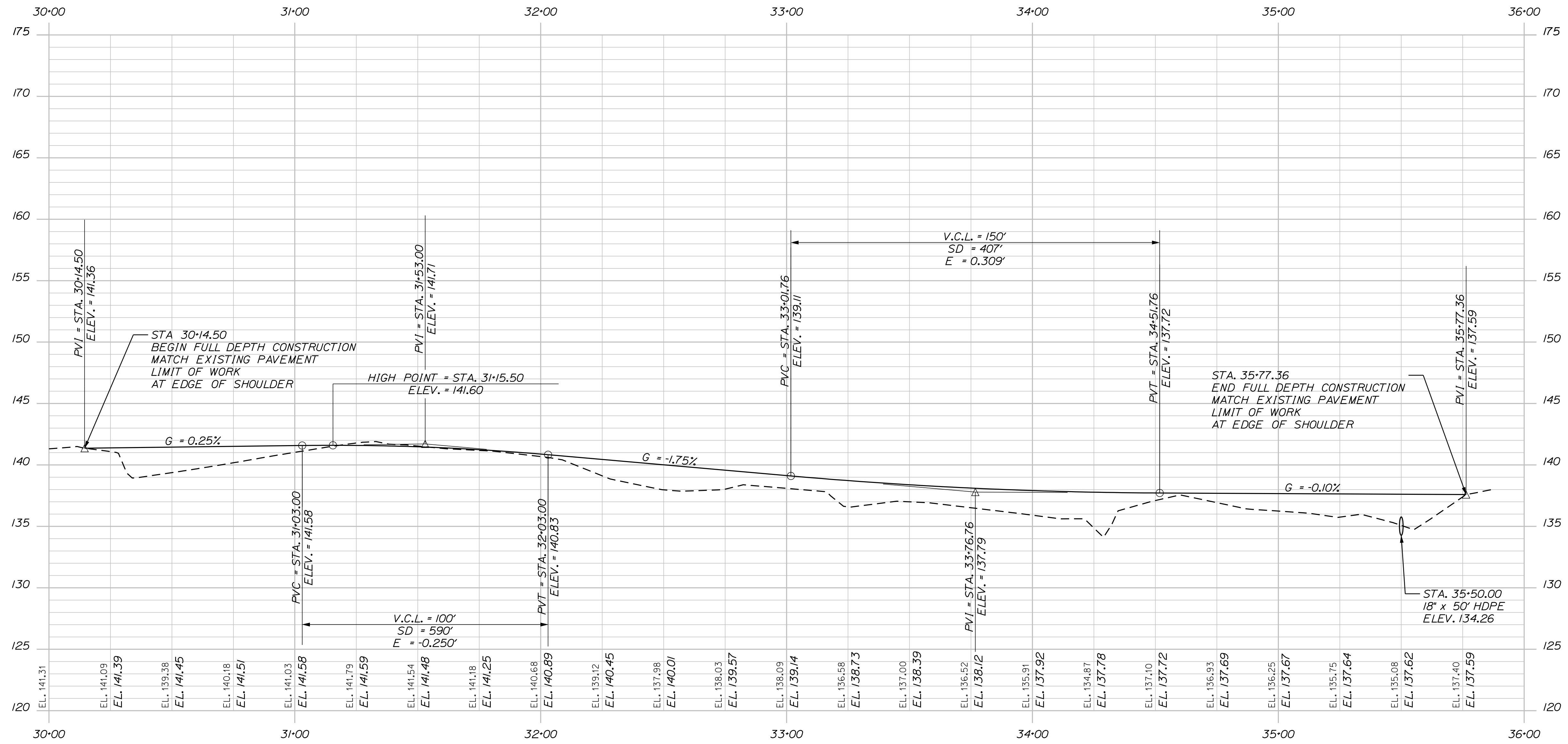
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

**LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 SOUTHBOUND GENERAL PLAN**

VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: 98  
 98 OF 117

Date: 1/14/2022



LITTLEFIELD ROAD NB EVR PROFILE

Filename: ...099\_Profile\_LittlefieldRd\_NB.dgn

Scale: HORIZ. 25 0 25 50  
VERT. 5 0 5 10

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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South Portland, ME 04106  
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

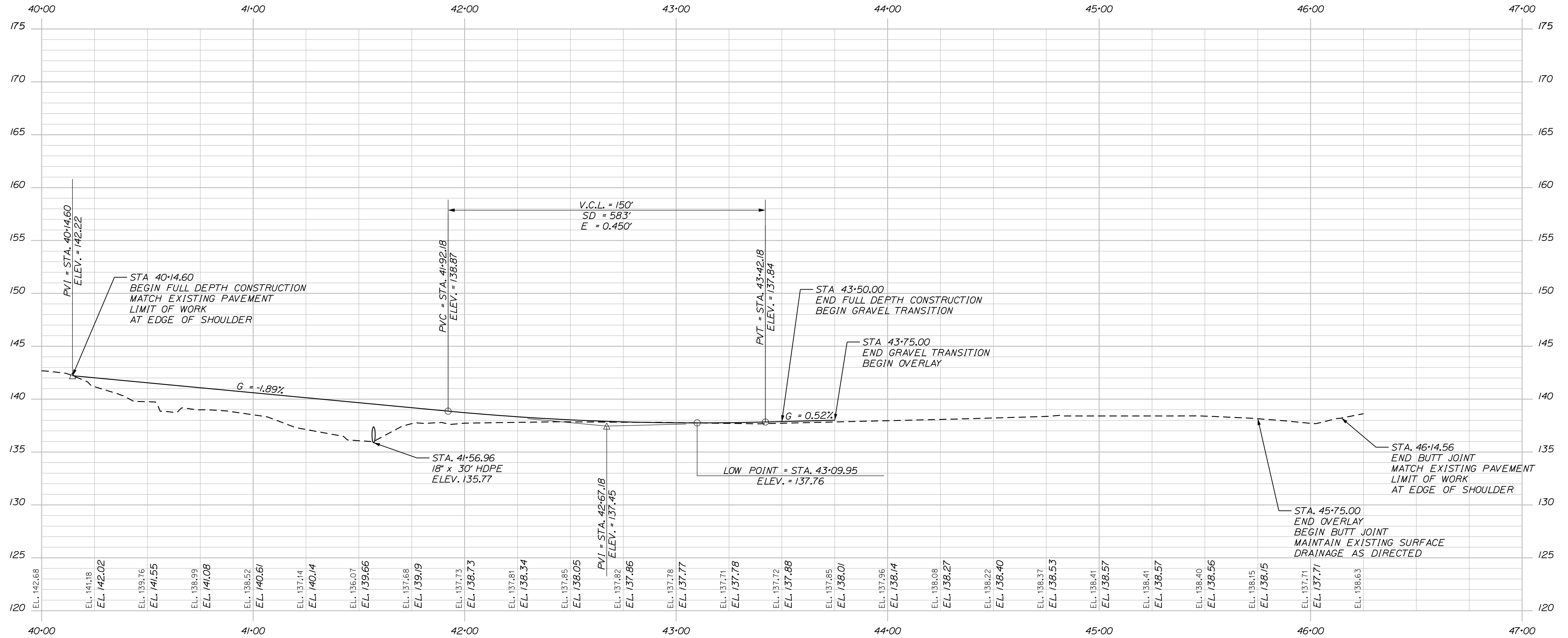
LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
NORTHBOUND PROFILE

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 99  
99 OF 117

Date: 1/14/2022

Filename: ... \100\_Profile\_LittlefieldRd\_SB.dgn



LITTLEFIELD ROAD SB EVR PROFILE

Scale: HORIZ. 25 0 25 50  
VERT. 5 0 5 10

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

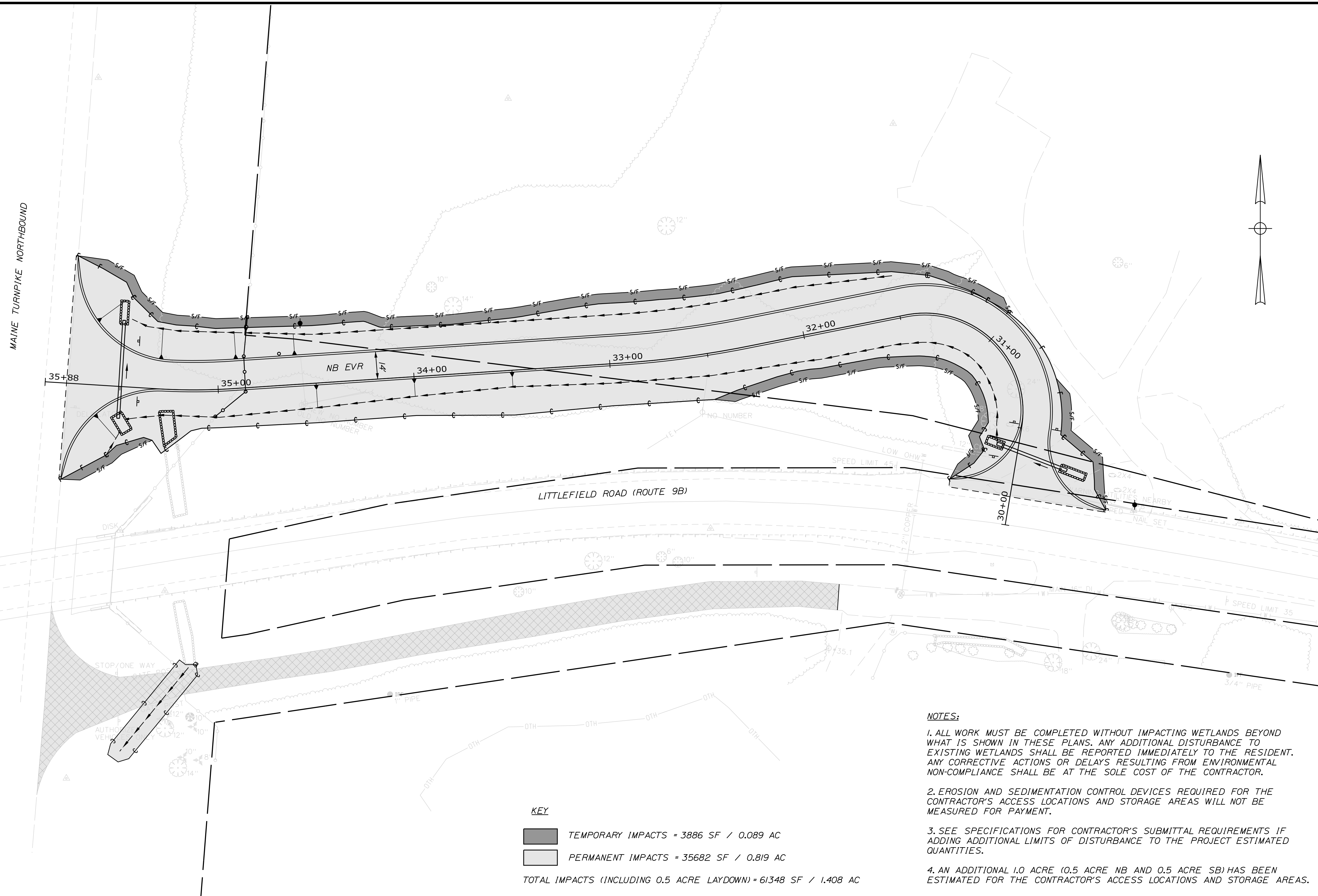
LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
SOUTHBOUND PROFILE

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 100  
100 OF 117

Date: 1/14/2022

Filename: ...\\01\_DisturbancePlan\_LittlefieldRd\_NB.dgn



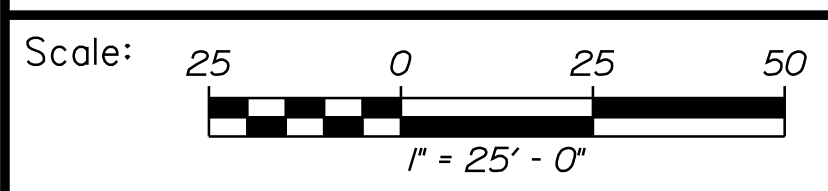
- NOTES:**
1. ALL WORK MUST BE COMPLETED WITHOUT IMPACTING WETLANDS BEYOND WHAT IS SHOWN IN THESE PLANS. ANY ADDITIONAL DISTURBANCE TO EXISTING WETLANDS SHALL BE REPORTED IMMEDIATELY TO THE RESIDENT. ANY CORRECTIVE ACTIONS OR DELAYS RESULTING FROM ENVIRONMENTAL NON-COMPLIANCE SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
  2. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
  3. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
  4. AN ADDITIONAL 1.0 ACRE (0.5 ACRE NB AND 0.5 ACRE SB) HAS BEEN ESTIMATED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS.

**KEY**

TEMPORARY IMPACTS = 3886 SF / 0.089 AC

PERMANENT IMPACTS = 35682 SF / 0.819 AC

TOTAL IMPACTS (INCLUDING 0.5 ACRE LAYDOWN) = 61348 SF / 1.408 AC



Designed by:



VANASSE HANGEN BRUSTLIN, INC.  
 500 Southborough Dr.  
 Suite 105B  
 South Portland, ME 04106  
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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 DISTURBANCE IMPACT PLAN (1 OF 2)  
 NORTHBOUND**

No.	Revision	By	Date

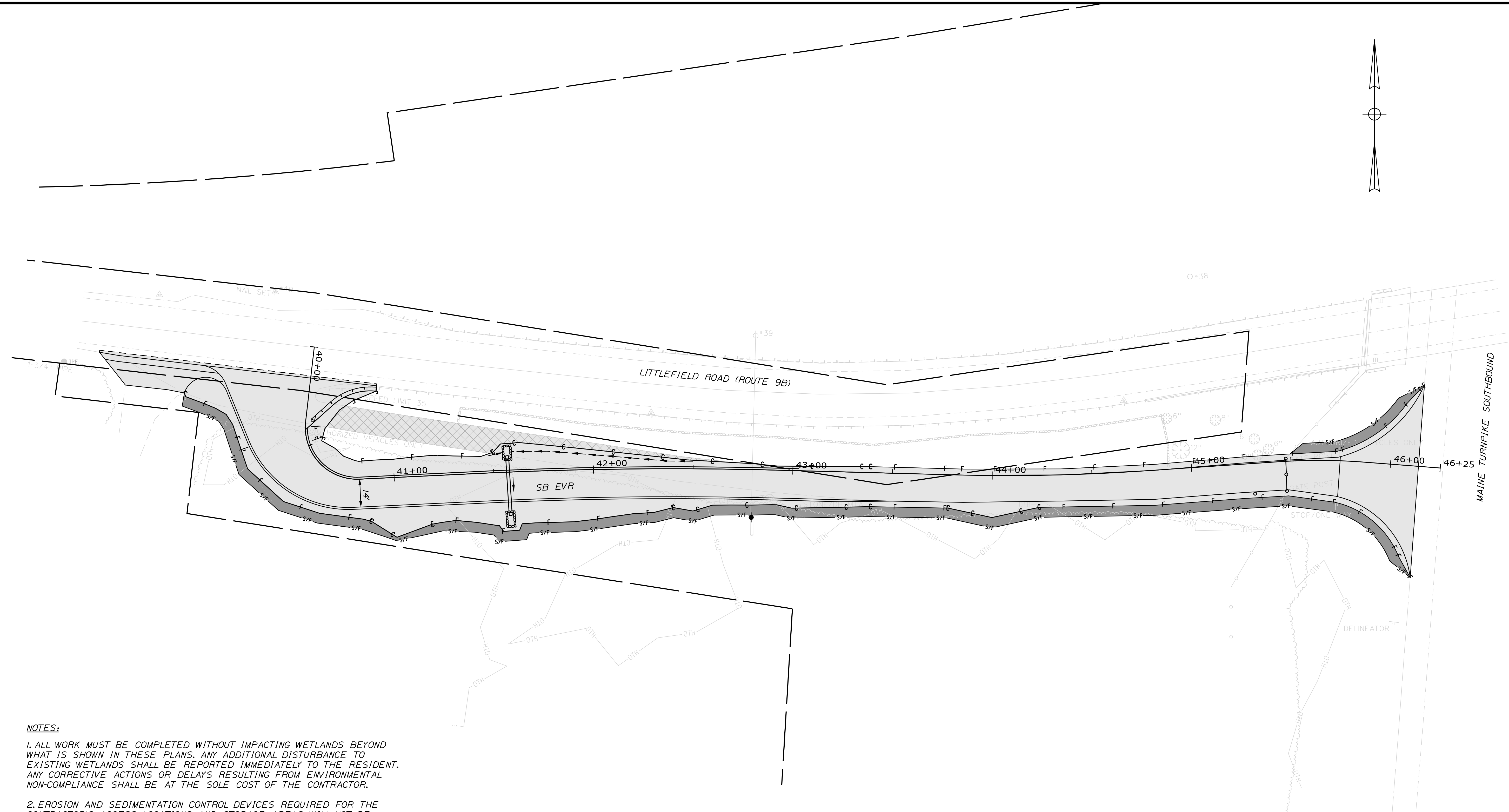
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

VHB: 55345.00 SHEET NUMBER: 101  
 CONTRACT: 2022.04 101 OF 117

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

Date: 1/14/2022

Filename: ... \102\_DisturbancePlan\_LittlefieldRd\_SB.dgn



- NOTES:**
1. ALL WORK MUST BE COMPLETED WITHOUT IMPACTING WETLANDS BEYOND WHAT IS SHOWN IN THESE PLANS. ANY ADDITIONAL DISTURBANCE TO EXISTING WETLANDS SHALL BE REPORTED IMMEDIATELY TO THE RESIDENT. ANY CORRECTIVE ACTIONS OR DELAYS RESULTING FROM ENVIRONMENTAL NON-COMPLIANCE SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
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  3. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
  4. AN ADDITIONAL 1.0 ACRE (0.5 ACRE NB AND 0.5 ACRE SB) HAS BEEN ESTIMATED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS.

**KEY**

TEMPORARY IMPACTS = 3585 SF / 0.082 AC


PERMANENT IMPACTS = 20598 SF / 0.473 AC

TOTAL IMPACTS (INCLUDING 0.5 ACRE LAYDOWN) = 45963 SF / 1.055 AC

Scale: 25 0 25 50  
1" = 25' - 0"

No.	Revision	By	Date

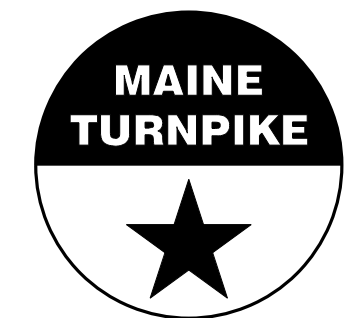
Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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South Portland, ME 04106  
TEL (207) 889-3150  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

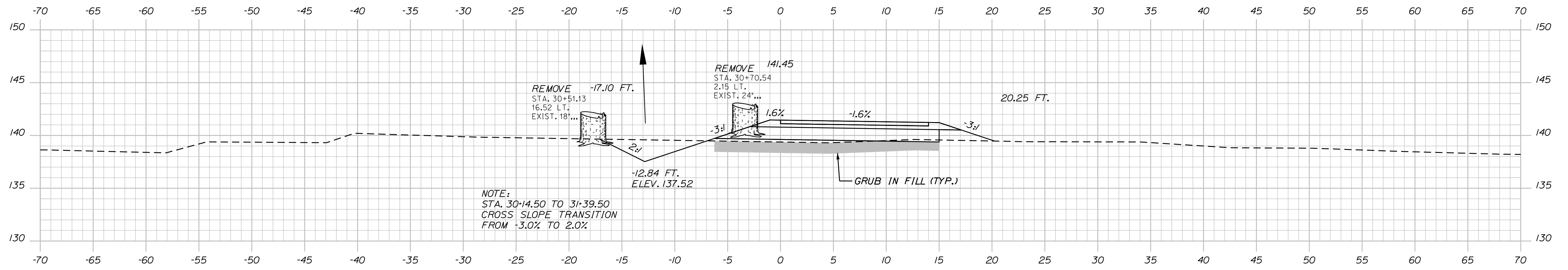
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
DISTURBANCE IMPACT PLAN (2 OF 2)  
SOUTHBOUND

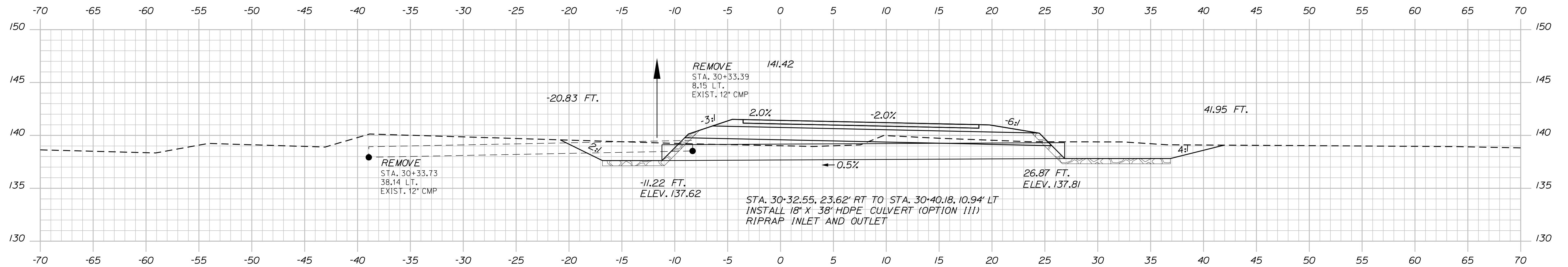
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: 102  
102 OF 117

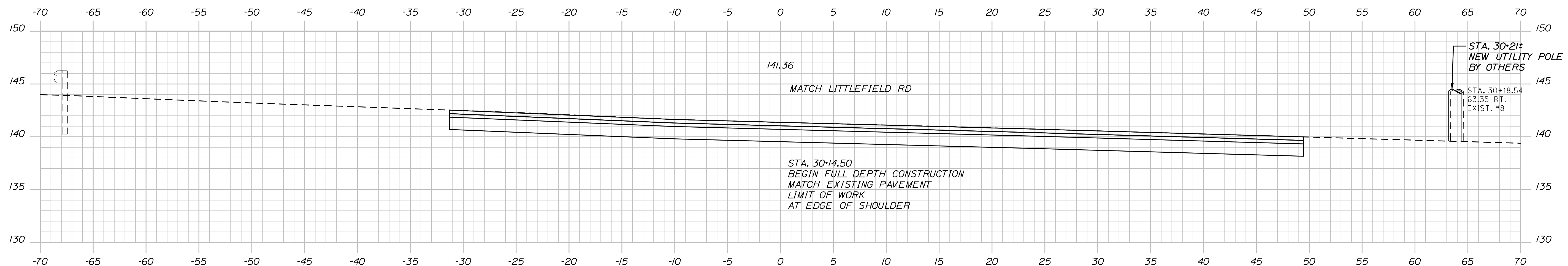
Date: 1/14/2022



30+50.00

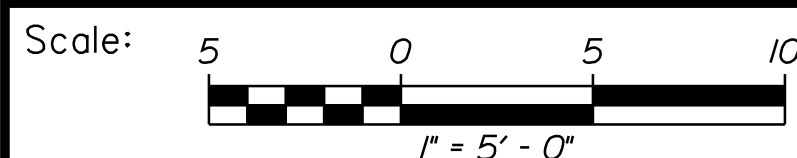


30+38.00 (SKEWED)



30+14.50

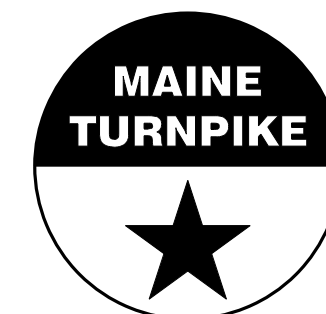
Sta. 30+14.50 to Sta. 30+50.00



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500 Southborough Dr.  
Suite 105B  
South Portland, ME 04106  
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THE GOLD STAR  
MEMORIAL HIGHWAY

LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
NORTHBOUND CROSS SECTIONS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

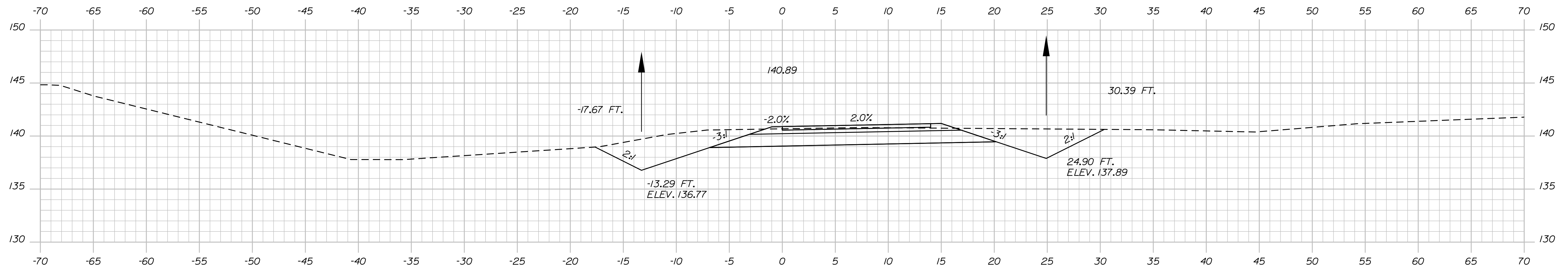
VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: NB-XS-1  
103 OF 117

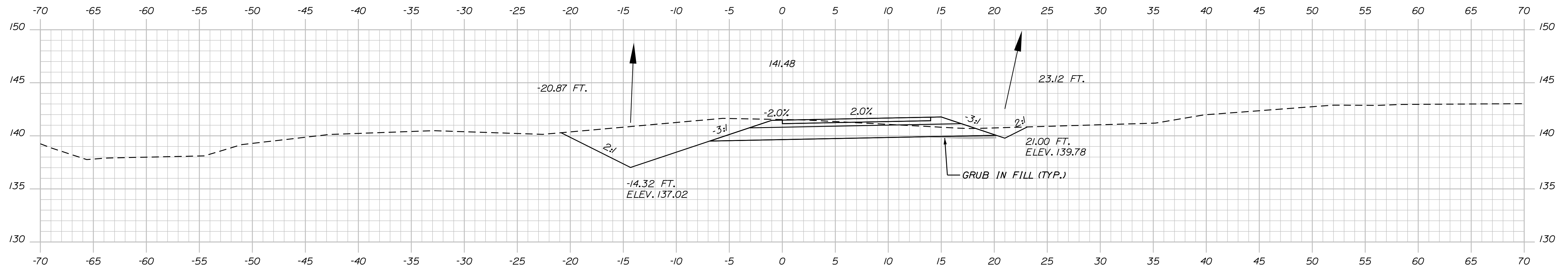
Filename: ...Xsect\_LittlefieldRd\_NB.dgn

Date: 1/14/2022

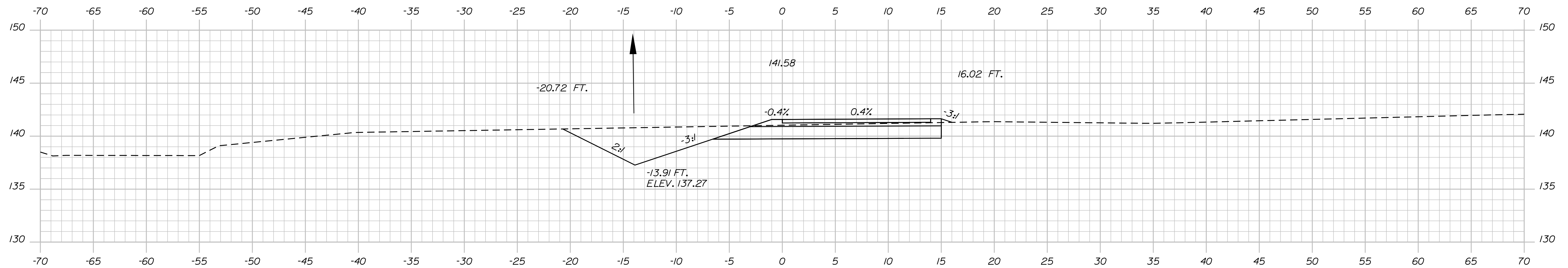
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32+00.00

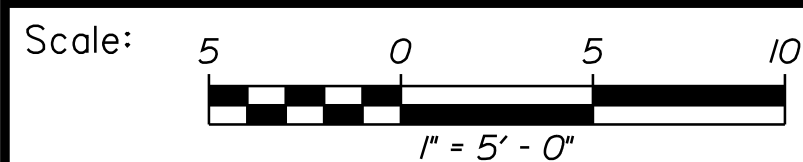


31+50.00



31+00.00

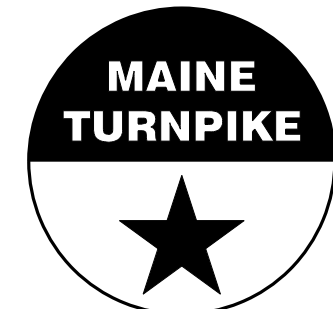
Sta. 31+00.00 to Sta. 32+00.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 NORTHBOUND CROSS SECTIONS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington			
Designed	BMD	10/29/21	Checked
Drawn	BMD	10/29/21	In Charge of
			AG
			10/29/21

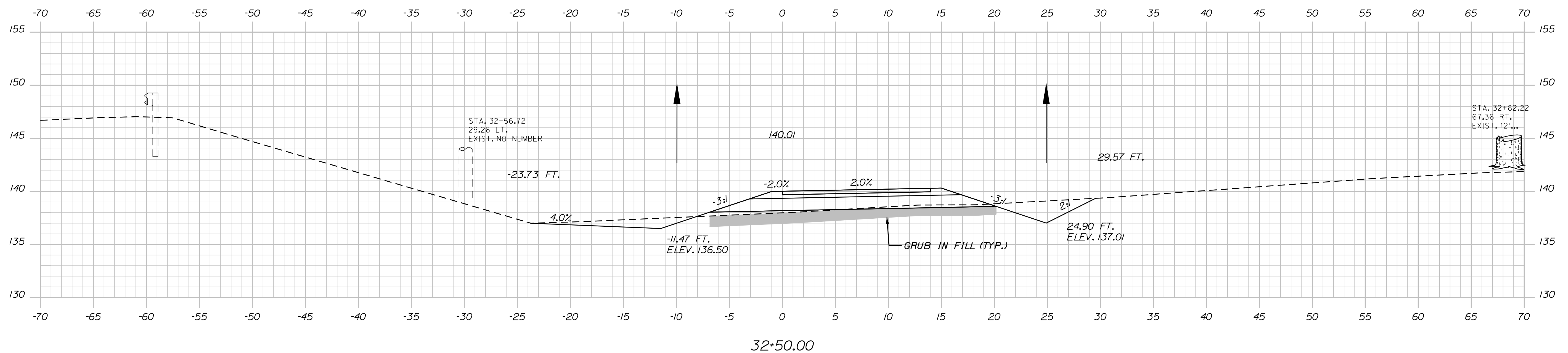
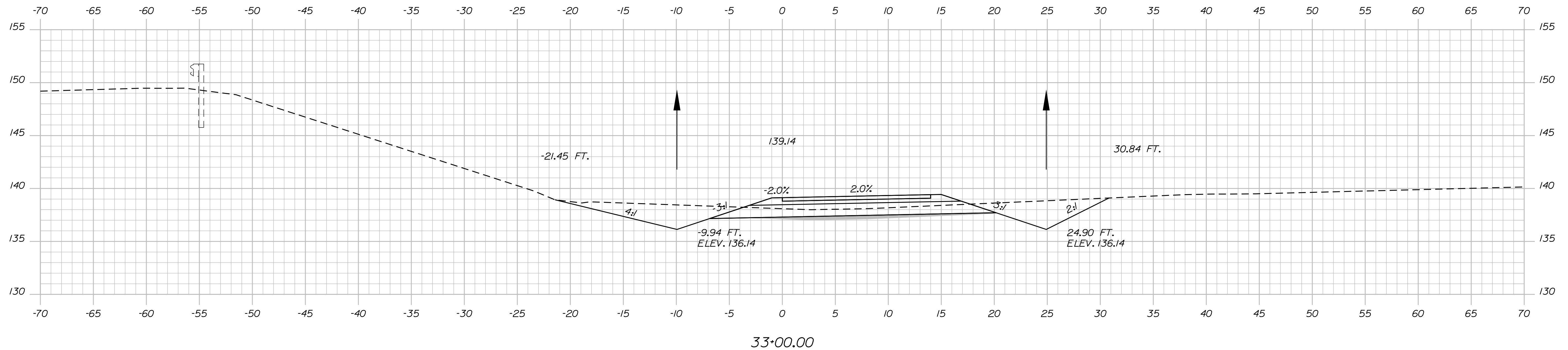
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

VHB: 55345.00  
 CONTRACT: 2022.04

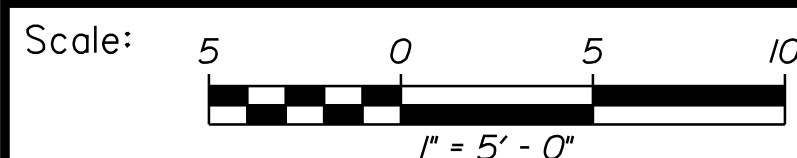
SHEET NUMBER: NB-XS-2  
 104 OF 117



Date: 1/14/2022



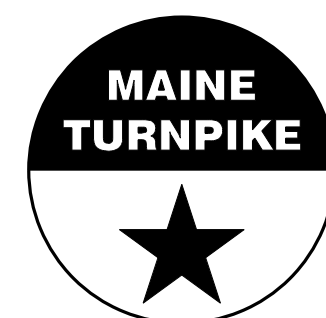
Sta. 32+50.00 to Sta. 33+00.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 NORTHBOUND CROSS SECTIONS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

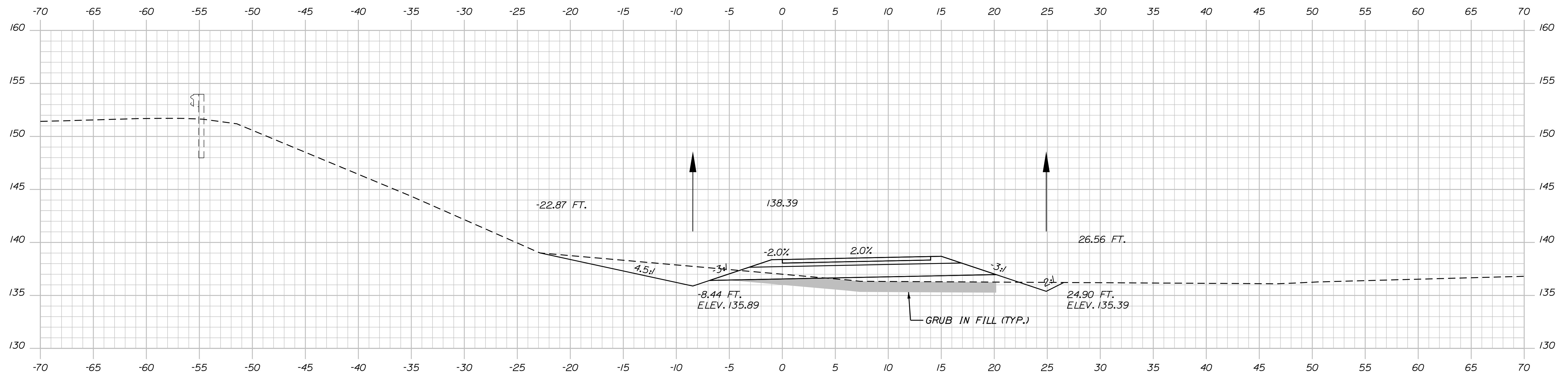
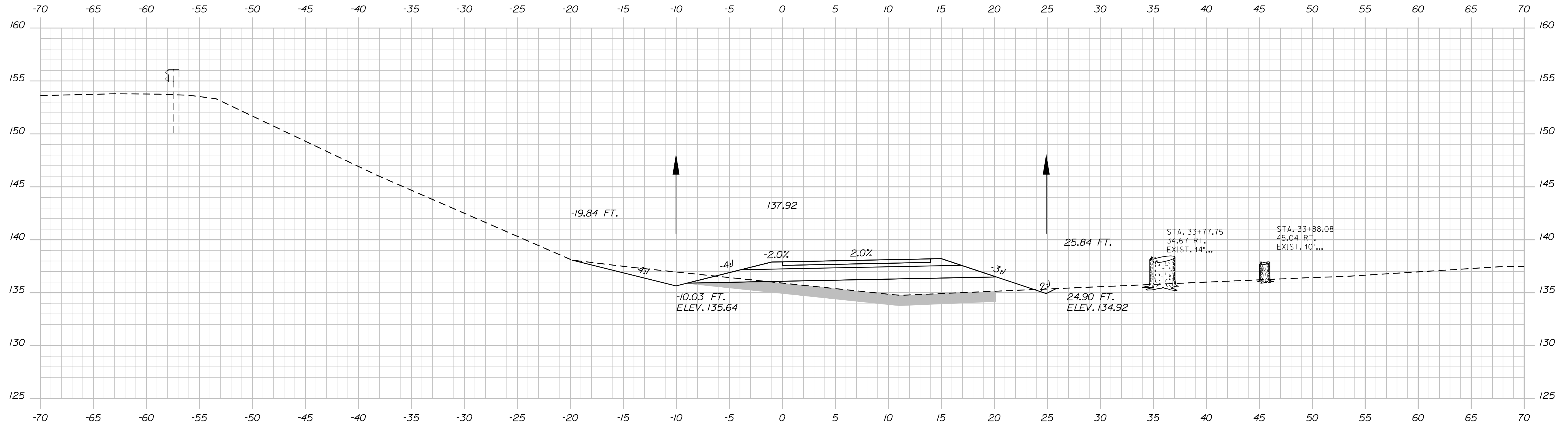
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: NB-XS-3  
 105 OF 117

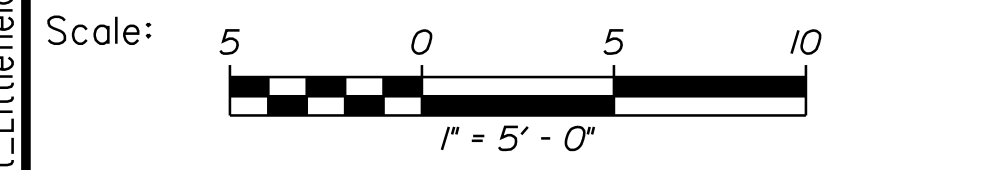
Filename: ...Xsect\_LittlefieldRd\_NB.dgn

Date: 1/14/2022


Filename: ...Xsect\_LittlefieldRd\_NB.dgn



Sta. 33+50.00 to Sta. 34+00.00



Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

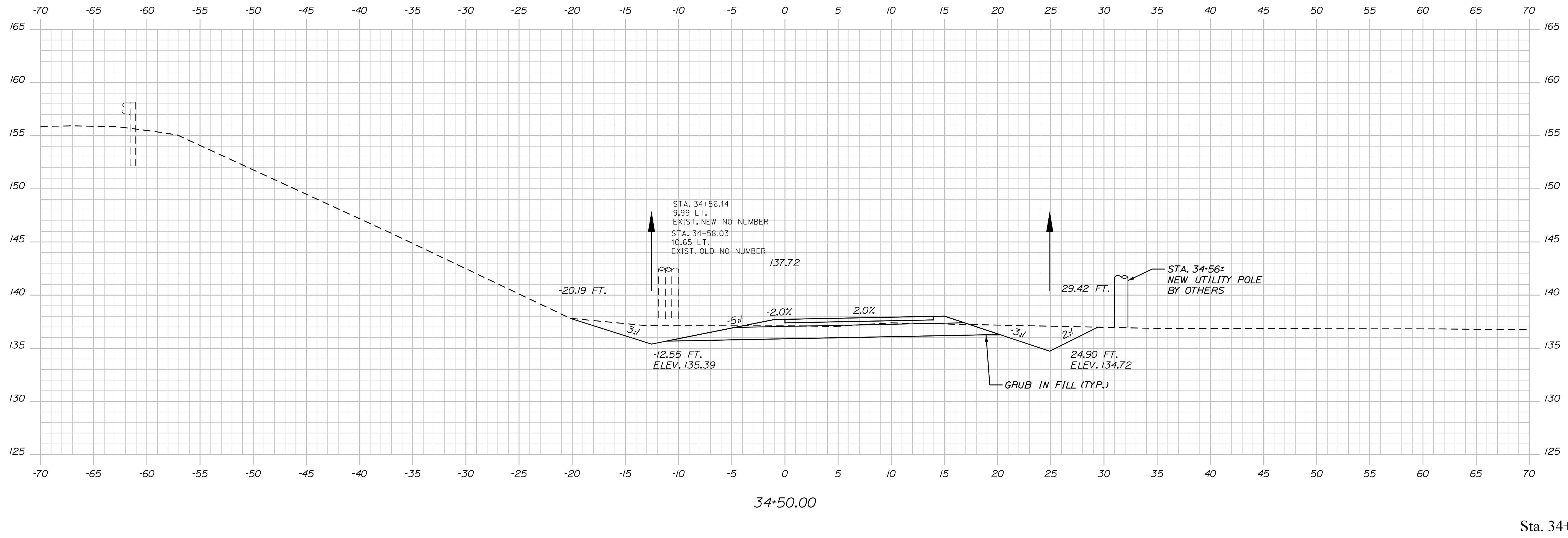
LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
NORTHBOUND CROSS SECTIONS

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: NB-XS-4  
106 OF 117

Date: 1/14/2022


Filename: ...Xsect\_LittlefieldRd\_NB.dgn



Scale: 5 0 5 10  
1" = 5' - 0"

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

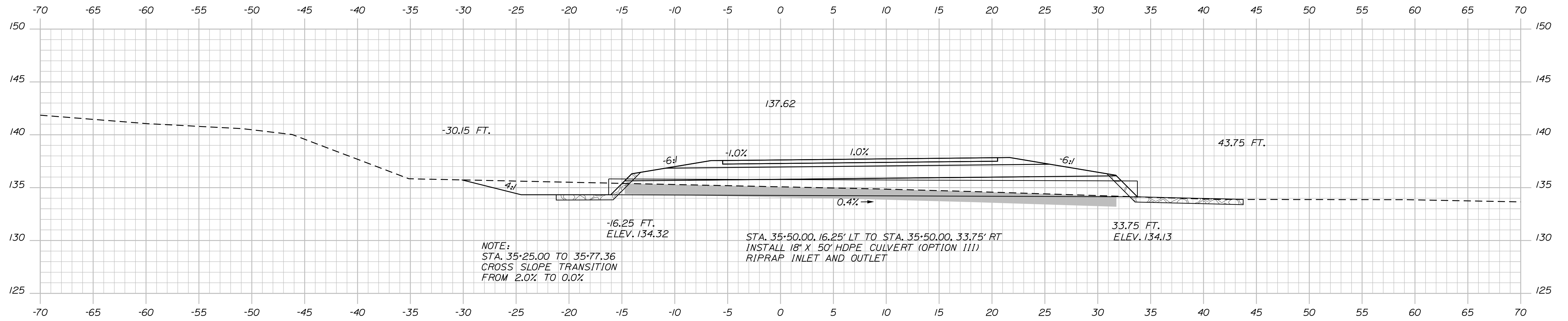
MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
NORTHBOUND CROSS SECTIONS

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: NB-XS-5  
107 OF 117

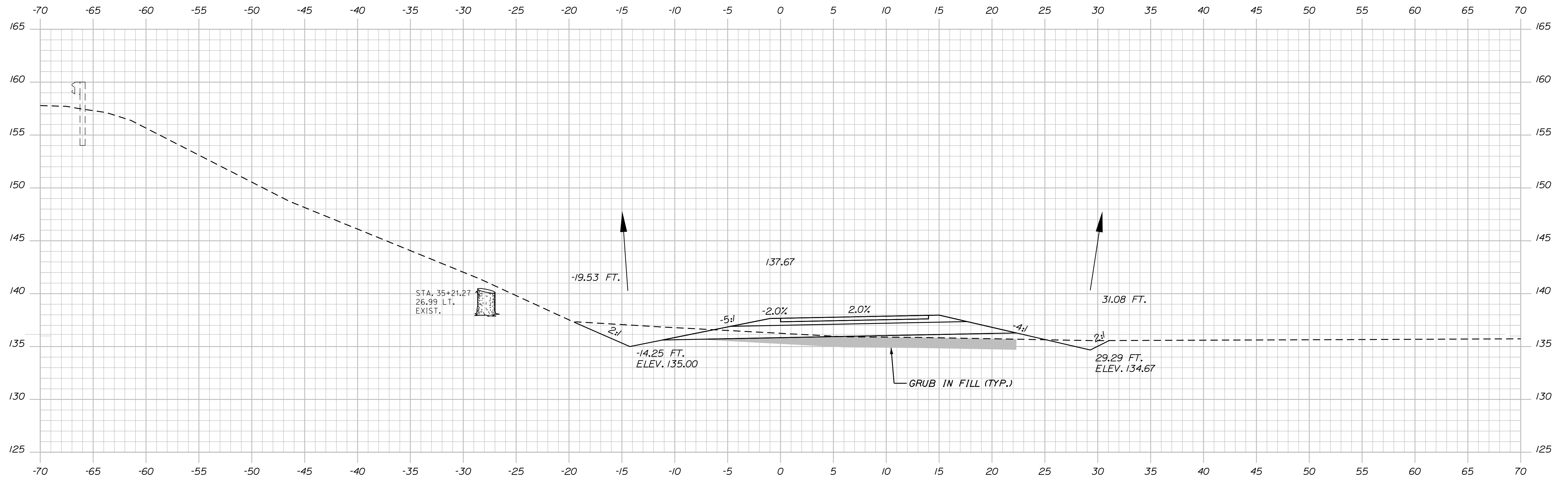
Date: 1/14/2022



NOTE:  
 STA. 35+25.00 TO 35+77.36  
 CROSS SLOPE TRANSITION  
 FROM 2.0% TO 0.0%

STA. 35+50.00, 16.25' LT TO STA. 35+50.00, 33.75' RT  
 INSTALL 18" X 50' HDPE CULVERT (OPTION III)  
 RIPRAP INLET AND OUTLET

35+50.00

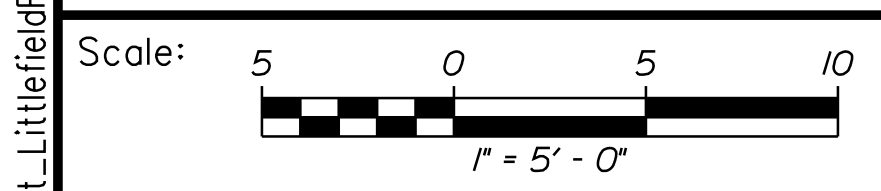


STA. 35+21.27  
 26.99 LT.  
 EXIST.


GRUB IN FILL (TYP.)

35+00.00

Sta. 35+00.00 to Sta. 35+50.00



Designed by:



No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	BMD	10/29/21	ECF	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 NORTHBOUND CROSS SECTIONS

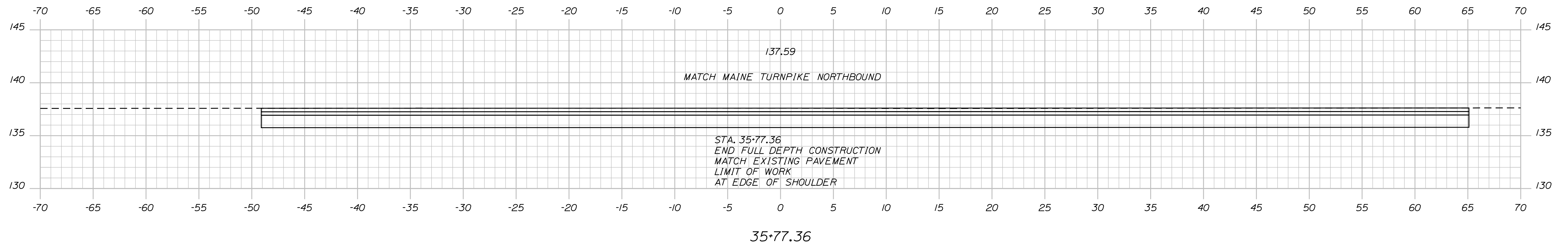
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: NB-XS-6  
 108 OF 117

Filename: ...Xsect\_LittlefieldRd\_NB.dgn

Date: 1/14/2022

Filename: ...Xsect\_LittlefieldRd\_NB.dgn




Sta. 35+77.36

Scale: 5 0 5 10  
1" = 5' - 0"

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

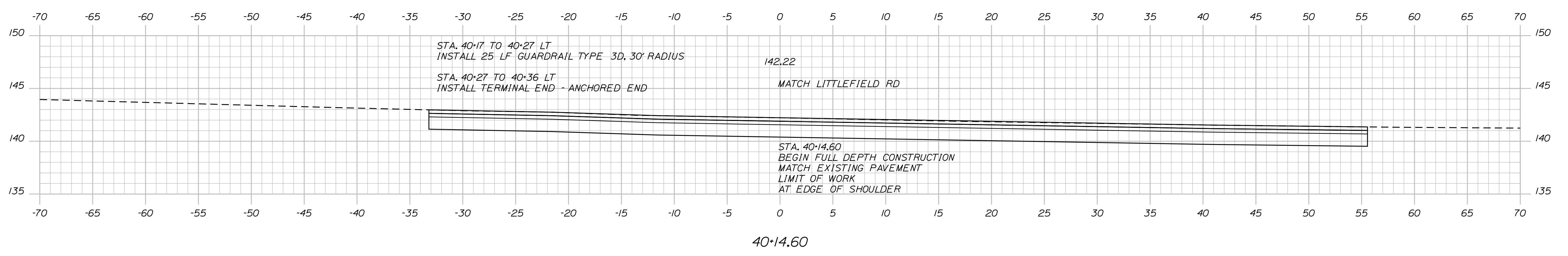
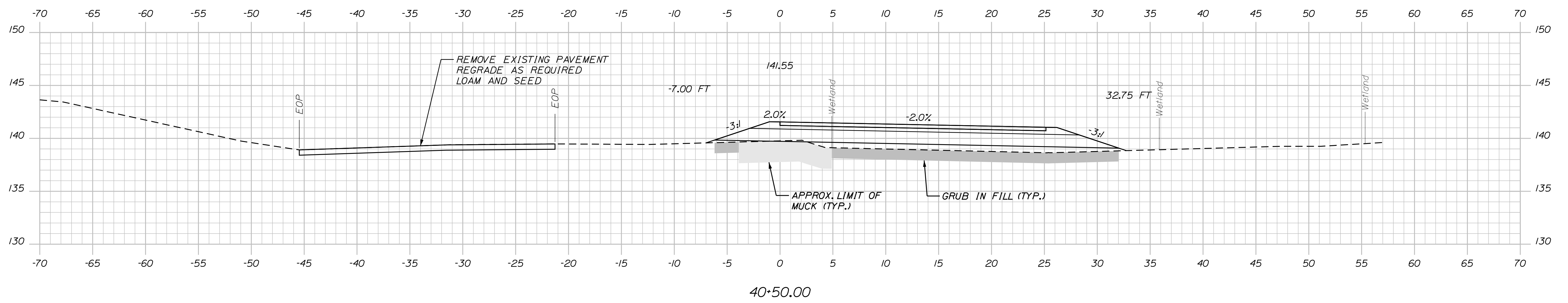
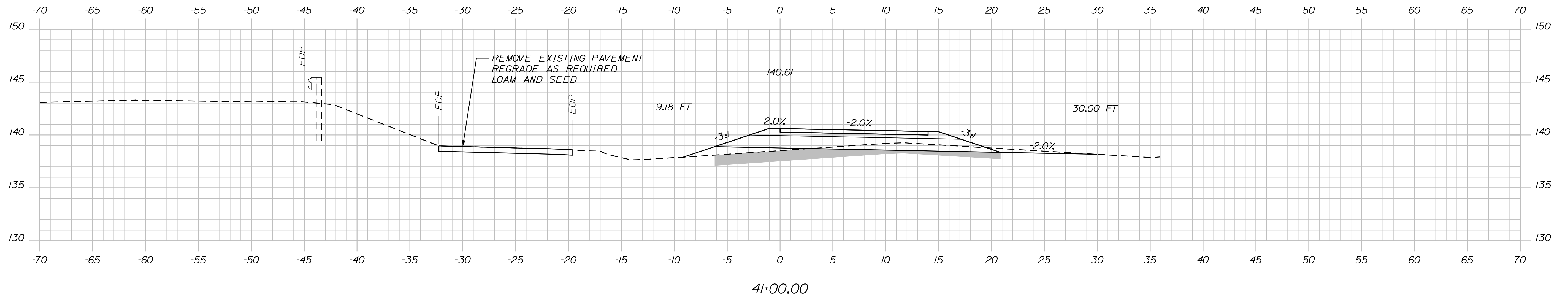
LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
NORTHBOUND CROSS SECTIONS

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: NB-XS-7  
109 OF 117

Date: 1/14/2022

Filename: ...Xsect\_LittlefieldRd\_SB.dgn




Sta. 40+14.60 to Sta. 41+00.00

Scale: 1" = 5' - 0"

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

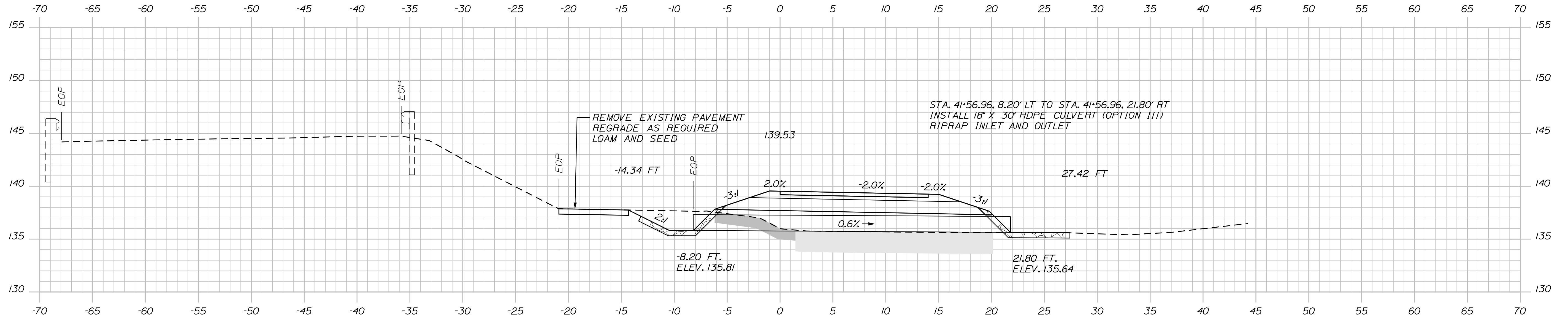
**LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMPS  
SOUTHBOUND CROSS SECTIONS**

VHB: 55345.00  
 CONTRACT: 2022.04

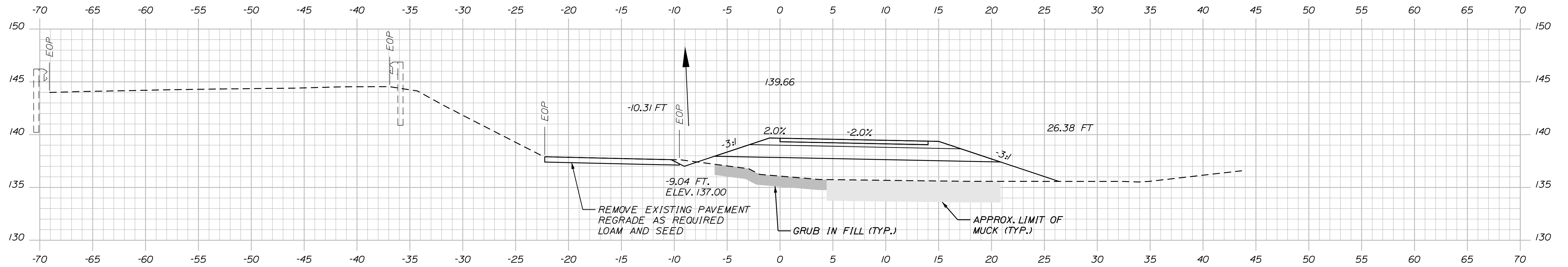
SHEET NUMBER: SB-XS-1  
 110 OF 117

Date: 1/14/2022

Filename: ...Xsect\_LittlefieldRd\_SB.dgn

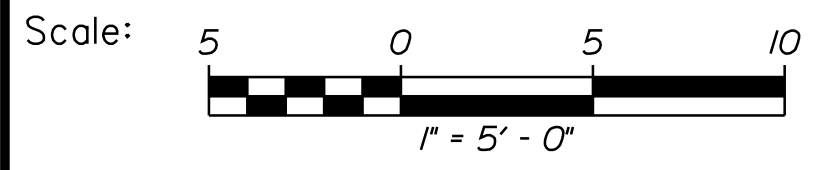


41+56.96



41+50.00

Sta. 41+50.00 to Sta. 41+56.96



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THE GOLD STAR  
 MEMORIAL HIGHWAY

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 SOUTHBOUND CROSS SECTIONS

No.	Revision	By	Date

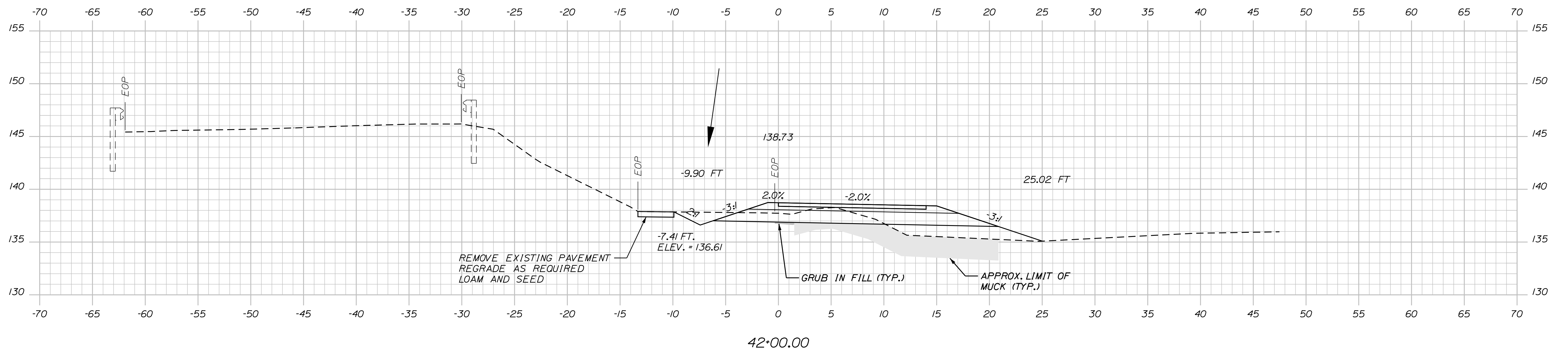
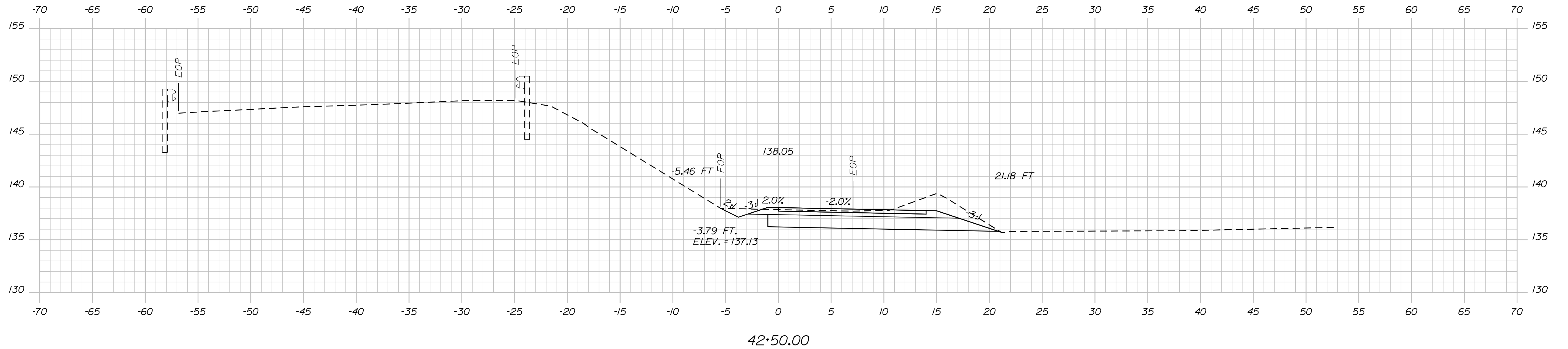
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

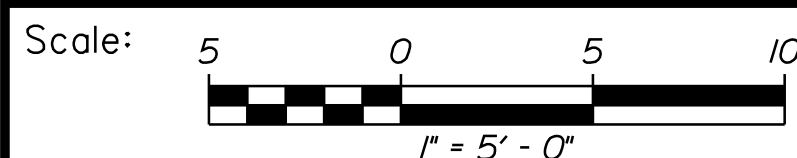
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: SB-XS-2  
 111 OF 117

Date: 1/14/2022



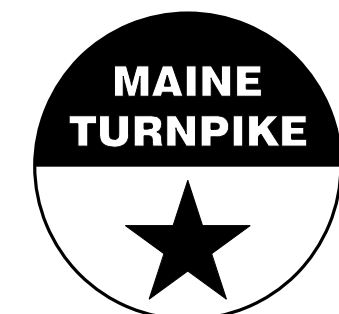
Sta. 42+00.00 to Sta. 42+50.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 SOUTHBOUND CROSS SECTIONS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

VHB: 55345.00  
 CONTRACT: 2022.04

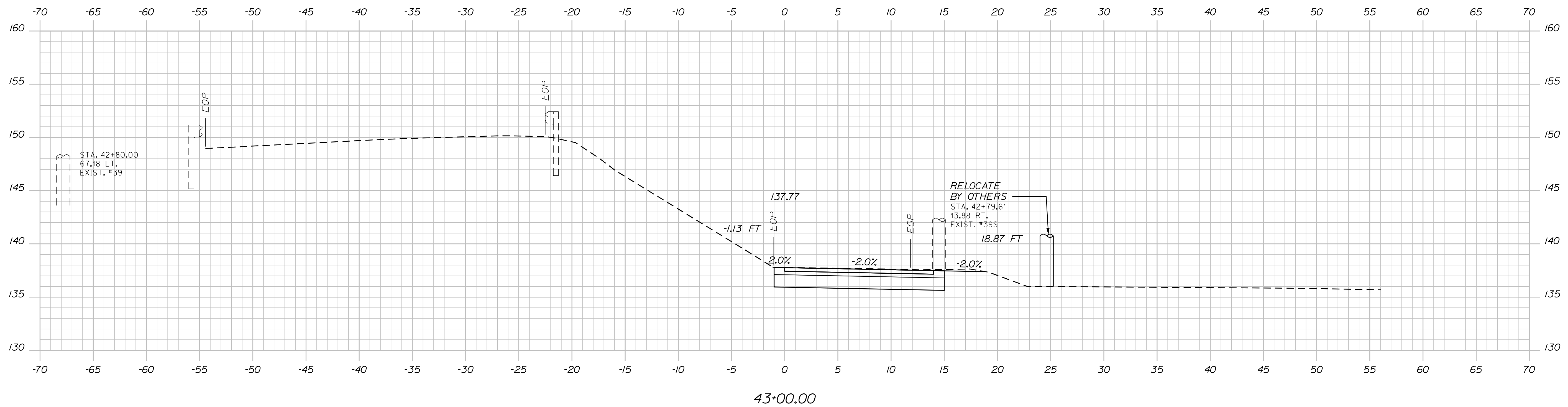
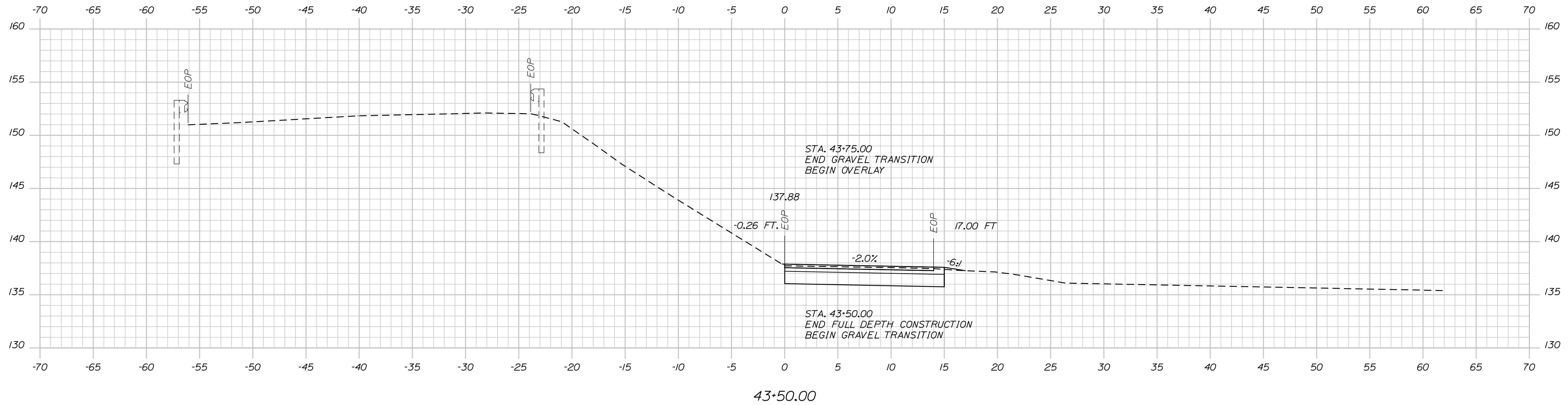
SHEET NUMBER: SB-XS-3  
 112 OF 117

Filename: ...Xsect\_LittlefieldRd\_SB.dgn

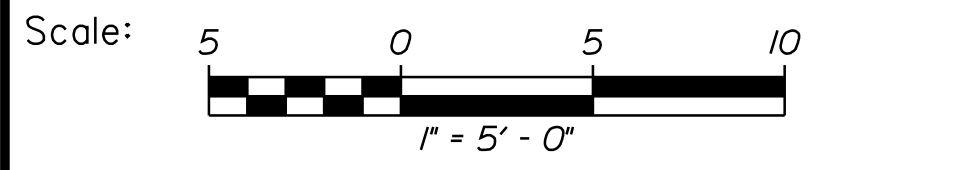


Date: 1/14/2022

Filename: ...Xsect\_LittlefieldRd\_SB.dgn



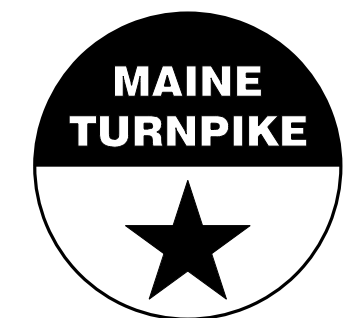
Sta. 43+00.00 to Sta. 43+50.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 SOUTHBOUND CROSS SECTIONS

No.	Revision	By	Date

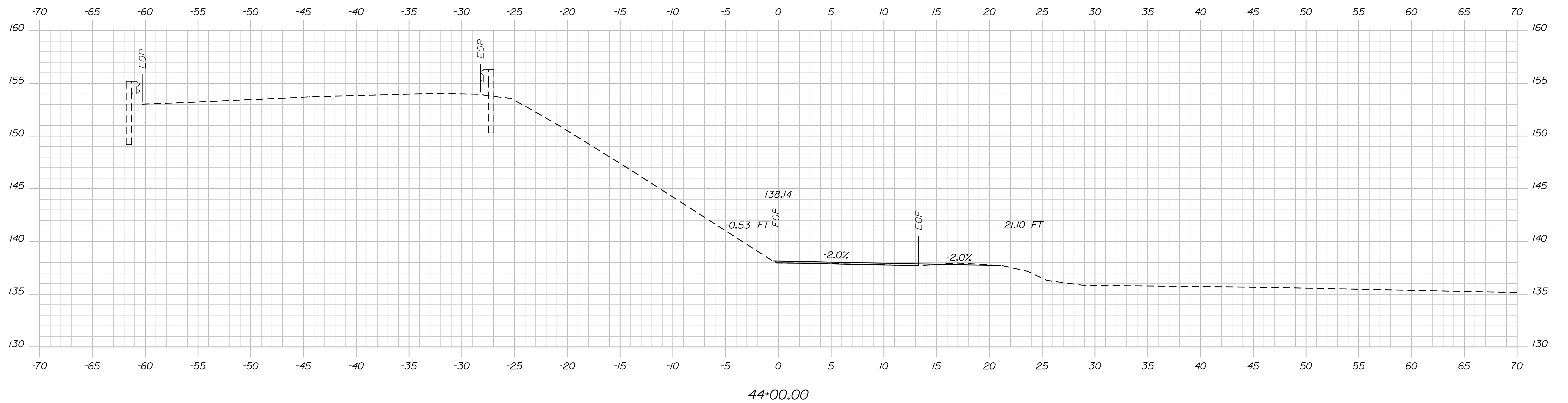
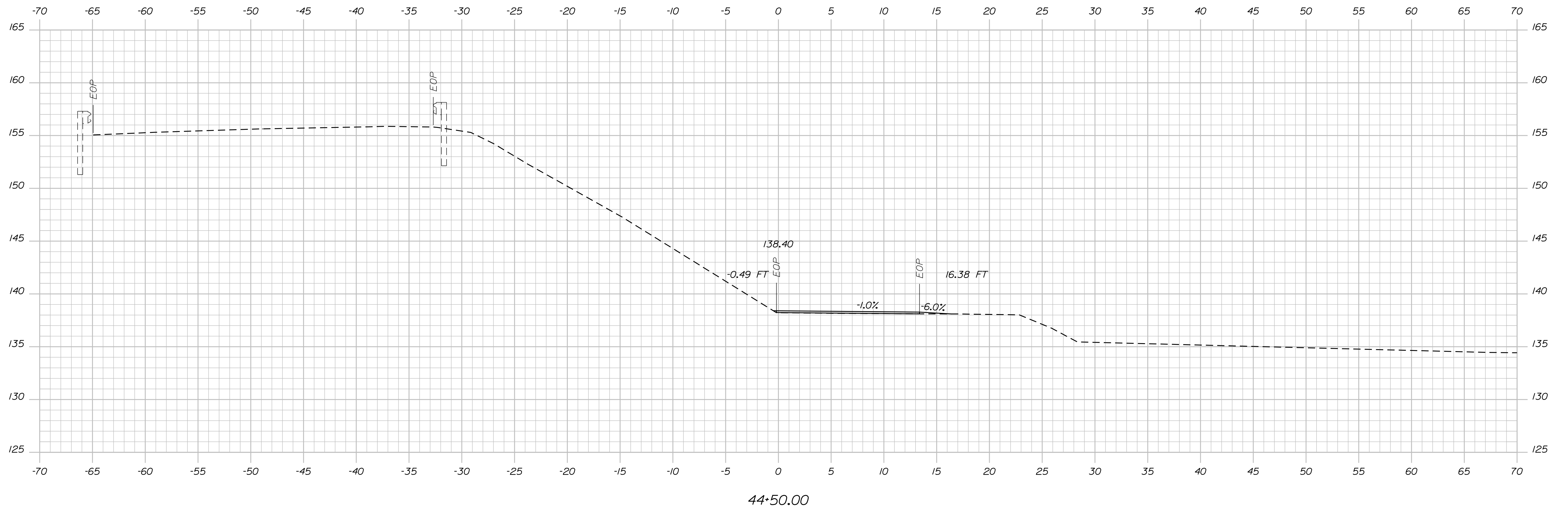
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

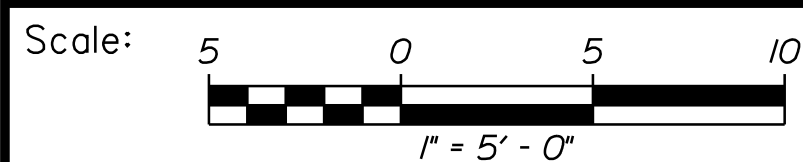
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: SB-XS-4  
 113 OF 117

Date: 1/14/2022



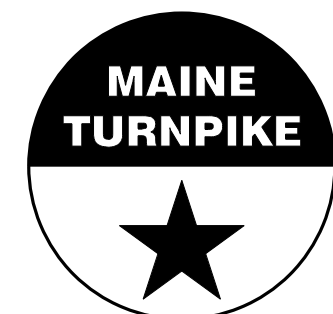
Sta. 44+00.00 to Sta. 44+50.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 SOUTHBOUND CROSS SECTIONS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

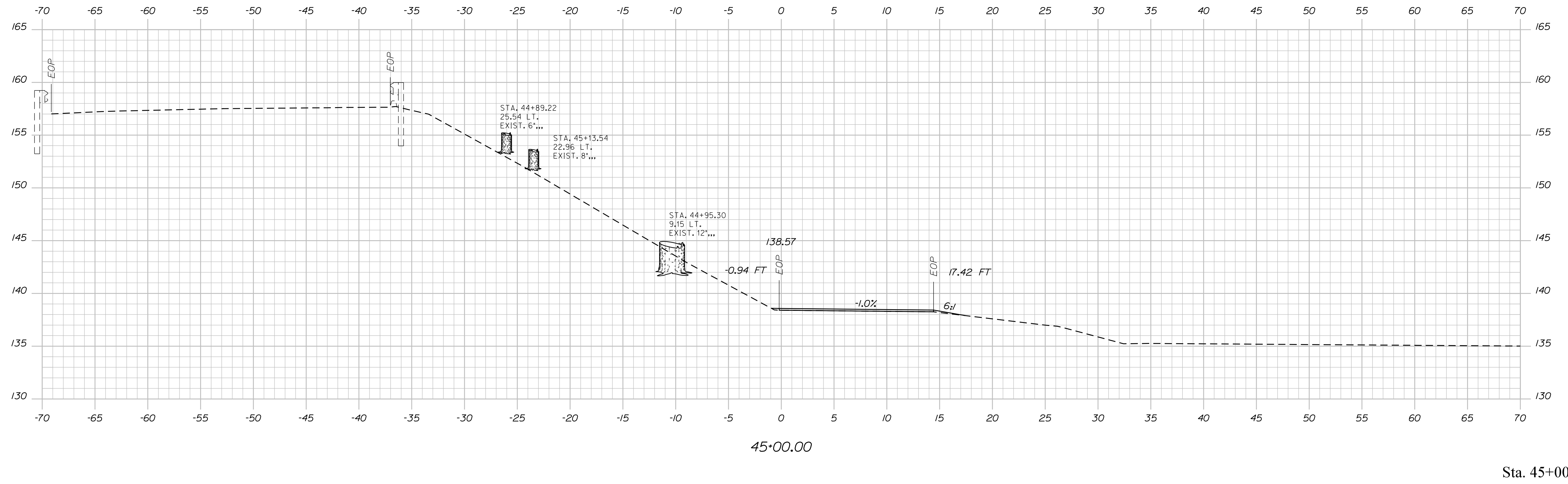
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: SB-XS-5  
 114 OF 117

Filename: ...Xsect\_LittlefieldRd\_SB.dgn

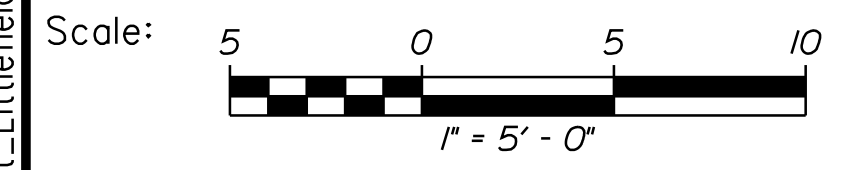
Date: 1/14/2022

Filename: ...Xsect\_LittlefieldRd\_SB.dgn



45+00.00

Sta. 45+00.00



Designed by:



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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMP  
 SOUTHBOUND CROSS SECTIONS

No.	Revision	By	Date

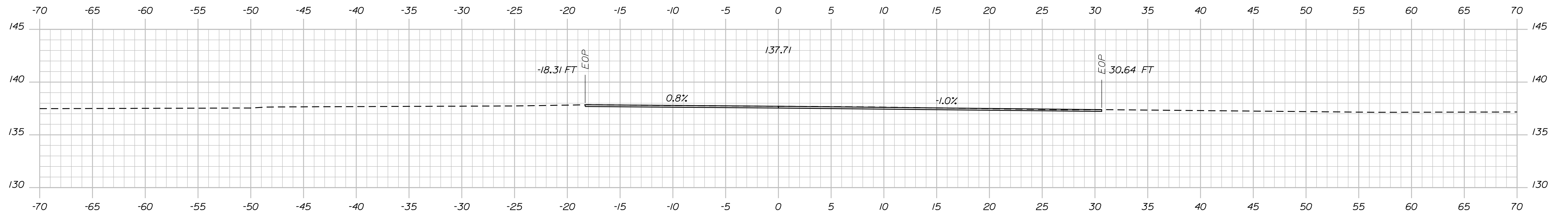
CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

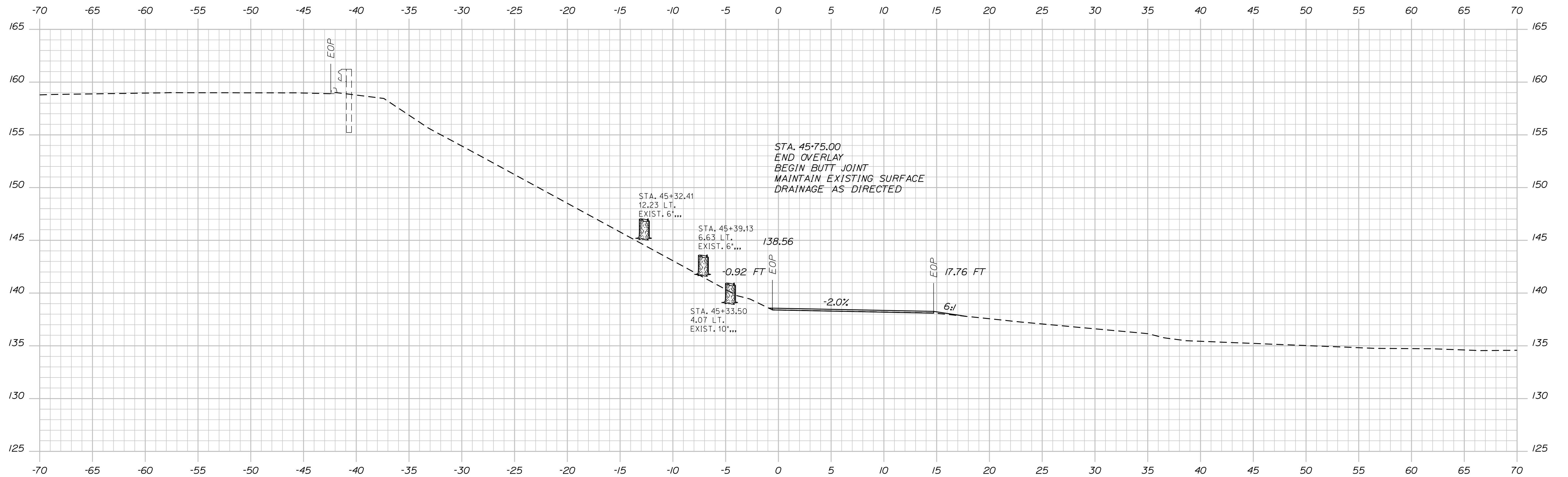
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: SB-XS-6  
 115 OF 117

Date: 1/14/2022

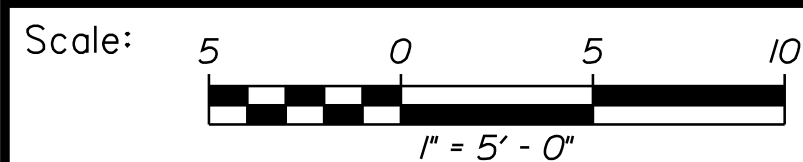


46+00.00



45+50.00

Sta. 45+50.00 to Sta. 46+00.00



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

LITTLEFIELD ROAD  
 EMERGENCY VEHICLE RAMPS  
 SOUTHBOUND CROSS SECTIONS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: G. Edington					
	By	Date		By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

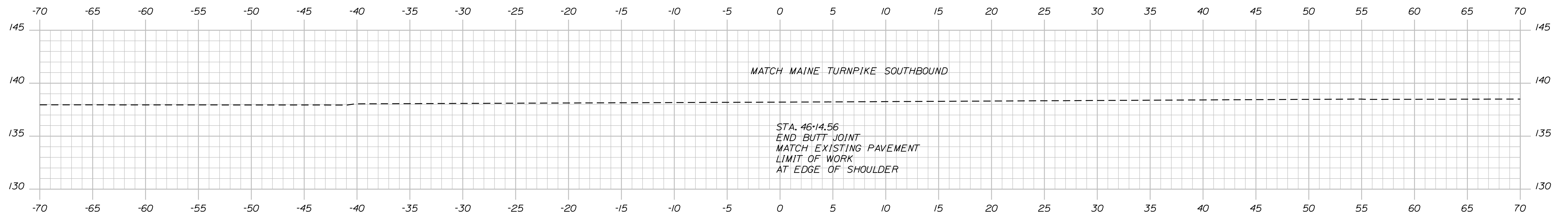
VHB: 55345.00  
 CONTRACT: 2022.04

SHEET NUMBER: SB-XS-7  
 116 OF 117

Filename: ...Xsect\_LittlefieldRd\_SB.dgn

Date: 1/14/2022

Filename: ...Xsect\_LittlefieldRd\_SB.dgn




46+14.56

Sta. 46+14.56

Scale: 5 0 5 10  
1" = 5' - 0"

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: G. Edington

	By	Date	Checked	By	Date
Designed	BMD	10/29/21	Checked	ECF	10/29/21
Drawn	BMD	10/29/21	In Charge of	AG	10/29/21

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH C. NORWOOD, IV

LITTLEFIELD ROAD  
EMERGENCY VEHICLE RAMP  
SOUTHBOUND CROSS SECTIONS

VHB: 55345.00  
CONTRACT: 2022.04

SHEET NUMBER: SB-XS-8  
117 OF 117