STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Ninth Edition, 2020.

DESIGN LOADING

Live Load ..... HL - 93

TRAFFIC DATA

Current (2023) AADT	7,290
Future (2043) AADT	8,020
DHV - % of AADT	12%
Design Hour Volume	962
Heavy Trucks (% of AADT)	7%
Heavy Trucks (% of DHV)	3%
Directional Distribution (% of DHV)	60%
18 kip Equivalent P 2.0	339
18 kip Equivalent P 2.5	323
Design Speed (mph)	50

MATERIALS

Concrete:
- Curbs ..... Class "LP"
- All Other ..... Class "A"

Reinforcing:
- Plain Reinforcing Steel ..... ASTM A615, Grade 60

Structural Steel:
- All Material (except as noted) ..... ASTM A709, Grade 50 (galvanized)
- High Strength Bolts ..... ASTM F3125, Grade A325, Type 1 (galvanized)

BASIC DESIGN STRESSES

Concrete:
- Class "A" ..... f 'c = 4,000 psi
- Class "LP" ..... f 'c = 5,000 psi

Reinforcing:
- Plain Reinforcing Steel ..... f y = 60,000 psi

Structural Steel:
- ASTM A709, Grade 50 ..... F y = 50,000 psi
- ASTM F3125, Grade A325 ..... F μ = 120,000 psi

WARREN
KNOX COUNTY
ST. GEORGE RIVER BRIDGE
OVER
ST. GEORGE RIVER
CAMDEN ROAD (S.R. ROUTE 90)
FEDERAL AID PROJECT NO. 2615400
PROJECT LENGTH 0.12 mi.
BRIDGE NO. 5654

LIST OF DRAWINGS

UTILITIES

Central Maine Power Company
Charter Communications, Inc.
Warren Telephone Company (TDS of Maine)
Maine Fiber Company

MAINTENANCE OF TRAFFIC

Maintain one lane of one - way alternating traffic using traffic signals.

PROJECT LOCATION	Camden Road approximately 1.0 miles northeast of U.S. Route 1 (Atlantic Highway) Lat./Long. 44° 7'22.48" N 69°14'39.27"W
PROGRAM AREA	Bridge
OUTLINE OF WORK	Bridge Deck Replacement

026154.00 WIN 2615400

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED — DATE 8/29/23
COMMISSIONER: [signature]
CHIEF ENGINEER: [signature] — DATE 8/29/23

STATE OF MAINE * JOHN A BURGESS 5745 REGISTERED PROFESSIONAL ENGINEER *

SIGNATURE 5745
P.E. NUMBER 8-21-2023
DATE

PROJECT INFORMATION

PROGRAM	BRIDGE
PROJECT MANAGER	DEVAN EATON
DESIGNER	ELIZABETH BROWNELL
CONSULTANT	THORNTON TOMASETTI
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WARREN
ST. GEORGE RIVER BRIDGE

TITLE SHEET

SHEET NUMBER 1 OF 24

Date:8/21/2023 Username: common Division: BRIDGE Filename:\00\BRIDGE\MSTA\001_Title.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.10	REMOVING EXISTING SUPERSTRUCTURE (PROPERTY OF CONTRACTOR)(354 CY)	1	LS
202.121	REMOVING EXISTING STRUCTURAL CONCRETE (11 CY)	11	LS
202.202	REMOVING EXISTING PAVEMENT SURFACE	643	SY
203.20	COMMON EXCAVATION	480	CY
203.25	GRANULAR BORROW	14	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	70	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	480	CY
403.2081	12.5 MM POLYMER MODIFIED HMA	256	T
403.2131	12.5 MM POLYMER MODIFIED HMA BASE	272	T
409.15	BITUMINOUS TACK COAT - APPLIED	144	G
502.219	STR CONC ABUT & RET WALL (12 CY)	1	LS
502.26	STR CONC RD & SW SLABS ON STEEL BRIDGE (270 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (34 CY)	1	LS
502.77	FRP BRIDGE DRAIN - TYPE F	4	EA
503.12	REINFORCING STEEL, FABRICATED/DELIVERED	113,500	LB
503.13	REINFORCING STEEL, PLACING	113,500	LB
503.17	MECHANICAL/WELDED SPLICE	1,166	EA
504.70	STR STEEL FAB & DEL (12,000 LB)	1	LS
504.71	STRUCTURAL STEEL ERECTION (12,000 LB)	1	LS
505.08	SHEAR CONNECTORS (4,750 EA)	1	LS
507.0821	STEEL BRIDGE RAILING, 3 BAR (587 LF)	1	LS
507.0822	STEEL APPROACH RAILING, 3-BAR	4	EA
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (1,086 SY)	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (283 SY)	1	LS
518.60	REPAIR OF VERTICAL SURFACES < 8 IN	10	SF
518.61	REPAIR OF VERTICAL SURFACES =>8 IN	2	CY
522.06	MODULAR EXPANSION DEVICE	1	EA
524.301	TEMPORARY STRUCTURAL SUPPORT - APPROACHES	1	LS
526.301	PORTABLE CONC BARRIER TYPE 1 (200 LF)	1	LS
526.305	TEMPORARY CONCRETE BARRIER, BRACED (300 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	4	UN
604.18	ADJUST MANHOLE OR CB TO GRADE	1	EA
606.1301	31" W-BM GR, MID-WAY SPLICE - SGL FACED	325	LF
606.1303	31" W-BM GR, MD-WY SPLC-15' RAD & LESS	18.75	LF
606.1305	31" W-BM GR, MD-WY SPLC FLARED TERM	1	EA
606.1721	BRIDGE TRANSITION TYPE 1	4	EA
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	4	EA
610.18	STONE DITCH PROTECTION	9	CY
615.07	LOAM	69	CY
618.14	SEEDING METHOD NUMBER 2	6	UN
619.12	MULCH	6	UN
619.14	EROSION CONTROL MIX	25	CY
620.58	EROSION CONTROL GEOTEXTILE	18	SY
627.733	4" WHITE OR YELLOW PAINTED PAVE MRK LINE	1,800	LF
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING LINE	50	SF
627.77	REMOVE PAVEMENT MARKINGS	620	SF
627.78	TEMP 4" PAINT PVMT MARK LINE W OR Y	1,800	LF
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.14	GRADER (INCLUDING OPERATOR)	10	HR
631.15	ROLLER (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
631.22	FRONT END LOADER (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE, TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADE	2	EA
652.33	DRUM	25	EA
652.34	CONE	75	EA
652.35	CONSTRUCTION SIGNS	300	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (240 CD)	1	LS
652.38	FLAGGER	480	HR
652.41	PORTABLE - CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

1. For easements, construction limits, and right of way lines, refer to the Right of Way Map.

2. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.

3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

4. Existing signs within the Project limits shall be removed and reset as directed by the Resident. Payment for removal and reinstallation of existing signs will be considered incidental to the Contract. No separate payment will be made.

5. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

6. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

7. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

8. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619. Mulch. Payment will be made under Pay Item 619.14, Erosion Control Mix.

9. All existing guardrail shall be removed and become the property of the Contractor. Removal and disposal shall be considered incidental to the guardrail items.

10. Guardrail posts as shown in the Standard Details shall be modified from the indicated length of 7 feet to a length of 8 feet with an embedment of 5.25 feet. Payment will be considered incidental to the guardrail pay items.

11. A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.

12. Payment for connecting new guardrail to existing guardrail will be considered incidental to related Contract items.

13. Where it is apparent that runoff will cause continual erosion, Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed. Payment will be made under the appropriate Contract items.

14. Protective Coating for Concrete Surfaces shall be applied to the following areas:

All exposed surfaces of concrete curbs.
Fascias down to the drip notch.
Top of abutment backwalls and wingwalls, and
To one foot below the ground on vertical walls against earth.

15. Project information referred to below may be accessed at the following MaineDOT web address: http://www.maine.gov/mdot/contractors/

16. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

17. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation and Time.

18. The Contractor shall submit a Bridge Demolition Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting, and finalizing the Demolition Plan will be considered incidental to the bridge removal pay item.

19. The steel portions of the existing bridge may be coated with a lead-based paint system. The Contrator is responsible for the containmnet, proper management and disposal of all lead-contaminated hazardous waste generated by the process of rehabilitating the bridge. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Payment for all labor, materials, equipment and other costs required to remove and dispose of lead-contaminated waste will be considered incidental to related Contract items.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

5654

BRIDGE PLANS

PROJ. MANAGER	D.EATON	BY	DATE
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2	----------	----------	-------
DESIGN3-DETAILED3	----------	----------	-------
REVISIONS 1	----------	----------	-------
REVISIONS 2	----------	----------	-------
REVISIONS 3	----------	----------	-------
REVISIONS 4	----------	----------	-------
FIELD CHANGES	----------	----------	-------

SIGNATURE

P.E. NUMBER

DATE

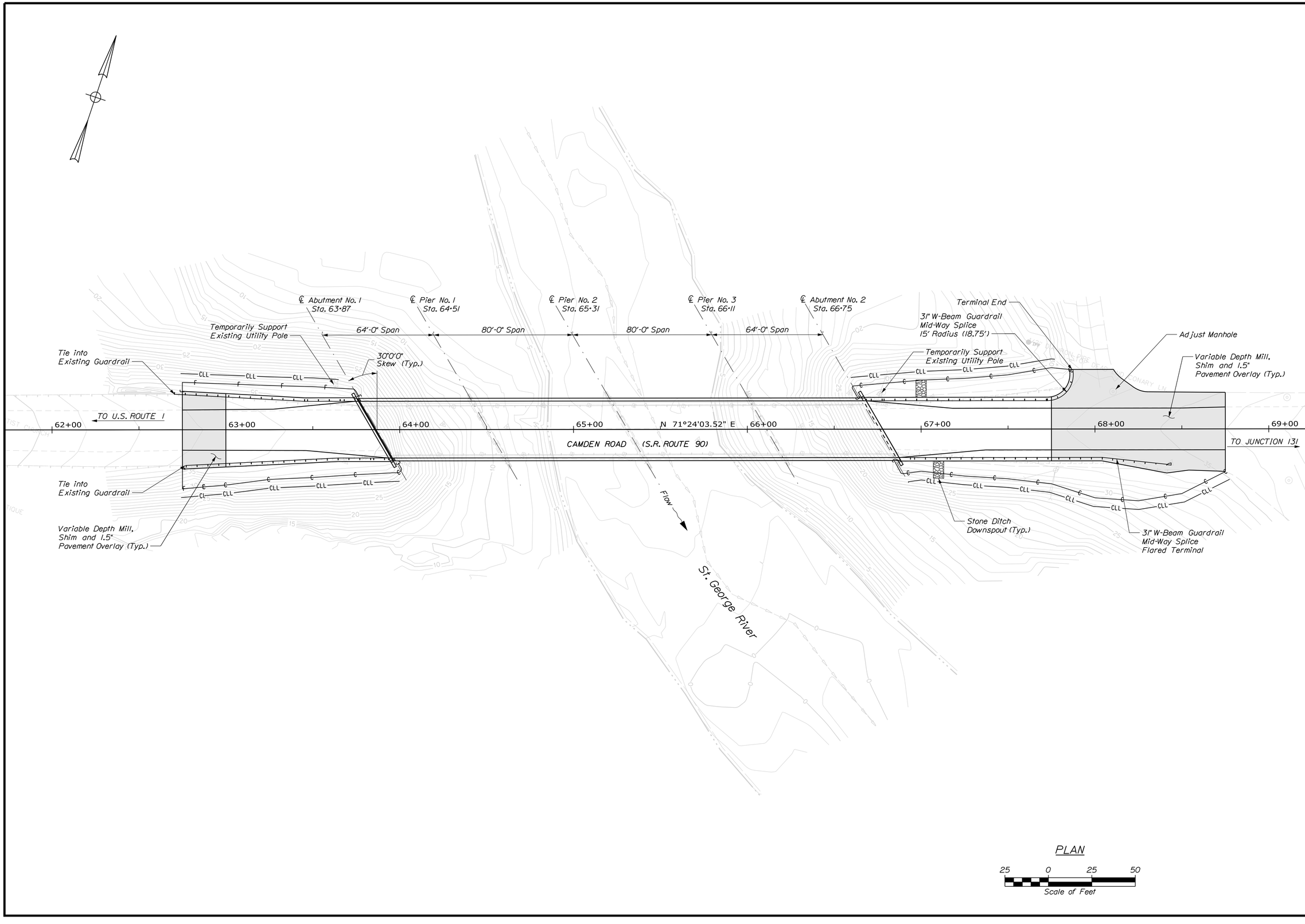
ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

ESTIMATED QUANTITIES AND GENERAL CONSTRUCTION NOTES

SHEET NUMBER

2

OF 24



PLAN

25 0 25 50

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

	BY	DATE
PROJ. MANAGER	D.EATON	
DESIGN-DETAILED	E.BROWNELL	8-16-2023
CHECKED-REVIEWED	B.WELCH	8-16-2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

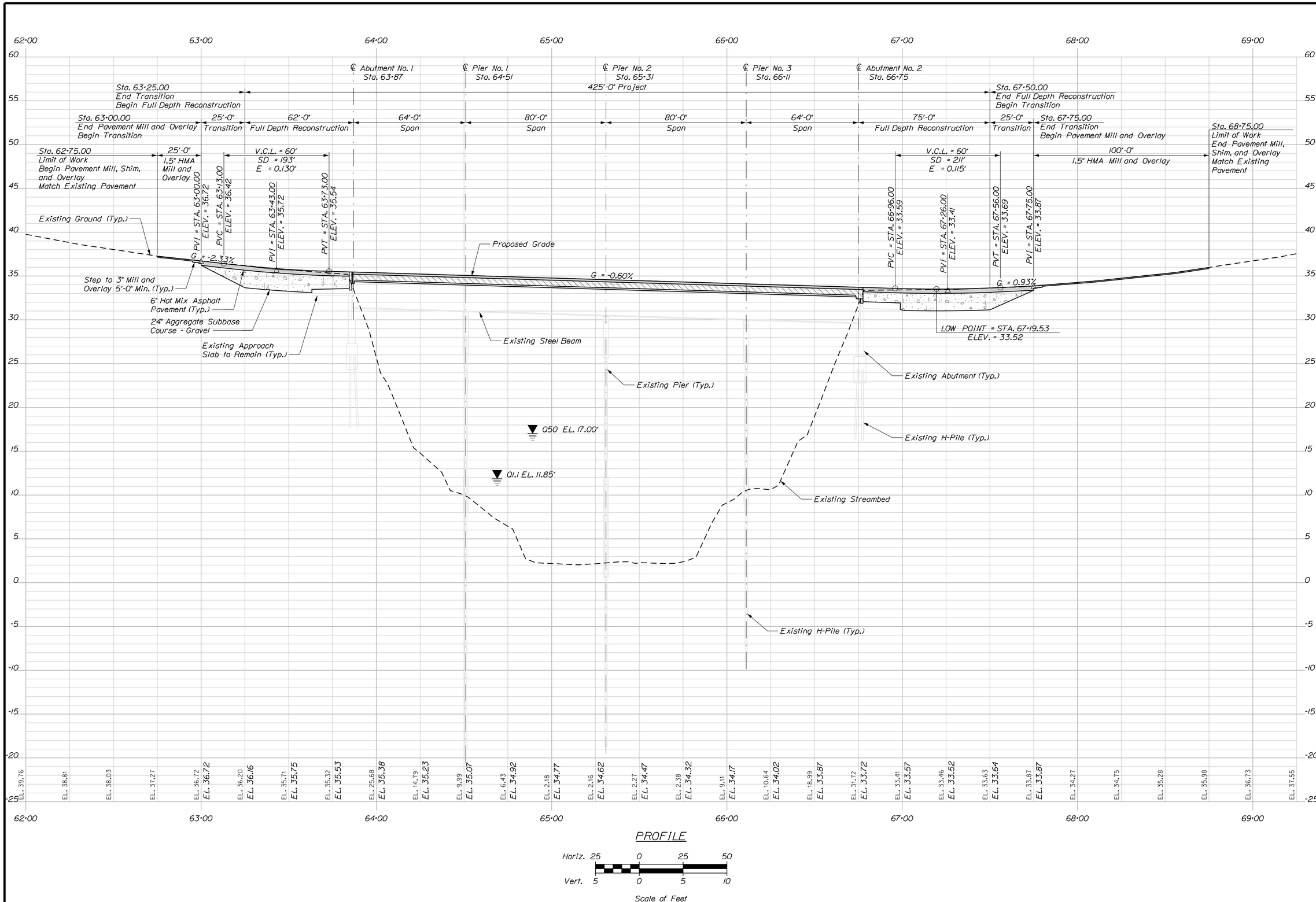
GENERAL PLAN

SHEET NUMBER

3

OF 24

Filename: ...\BRIDGE\MSTA\003_BDPlan_01.dgn Division: BRIDGE Username: common Date:8/23/2023



PROFILE

Horiz. 25 0 25 50

Vert. 5 0 5 10

Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

	BY	DATE
PROJ. MANAGER	D.EATON	
DESIGN-DETAILED	E.BROWNELL	8-16-2023
CHECKED-REVIEWED	B.WELCH	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	J.BURGESS	8-16-2023
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

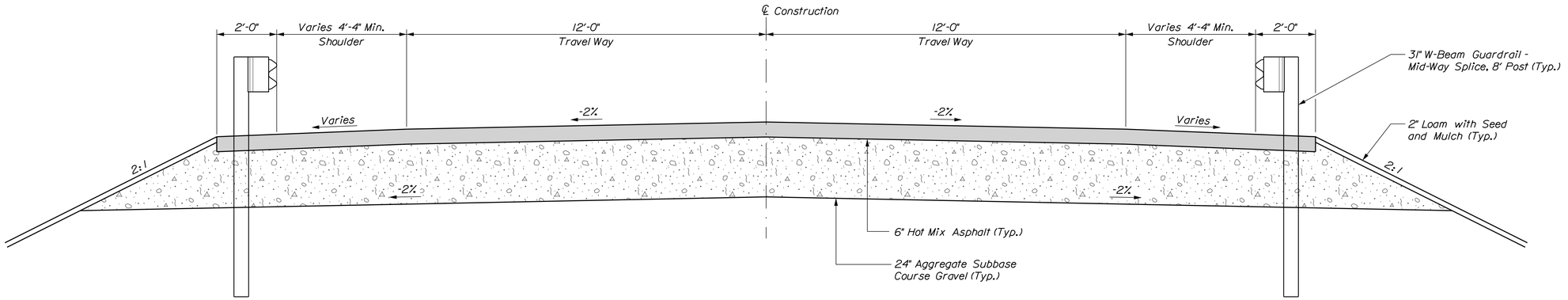
ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

PROFILE

SHEET NUMBER

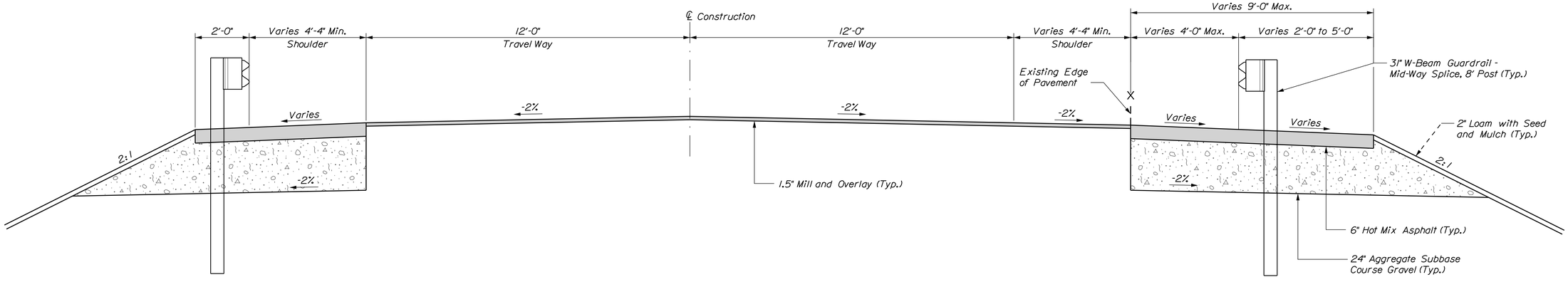
4

OF 24



TYPICAL APPROACH SECTION

Full Depth Contruction



TYPICAL APPROACH SECTION

Mill and Overlay

Section at Modified Guardrail Flare

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON		
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
KNOX COUNTY
WARREN

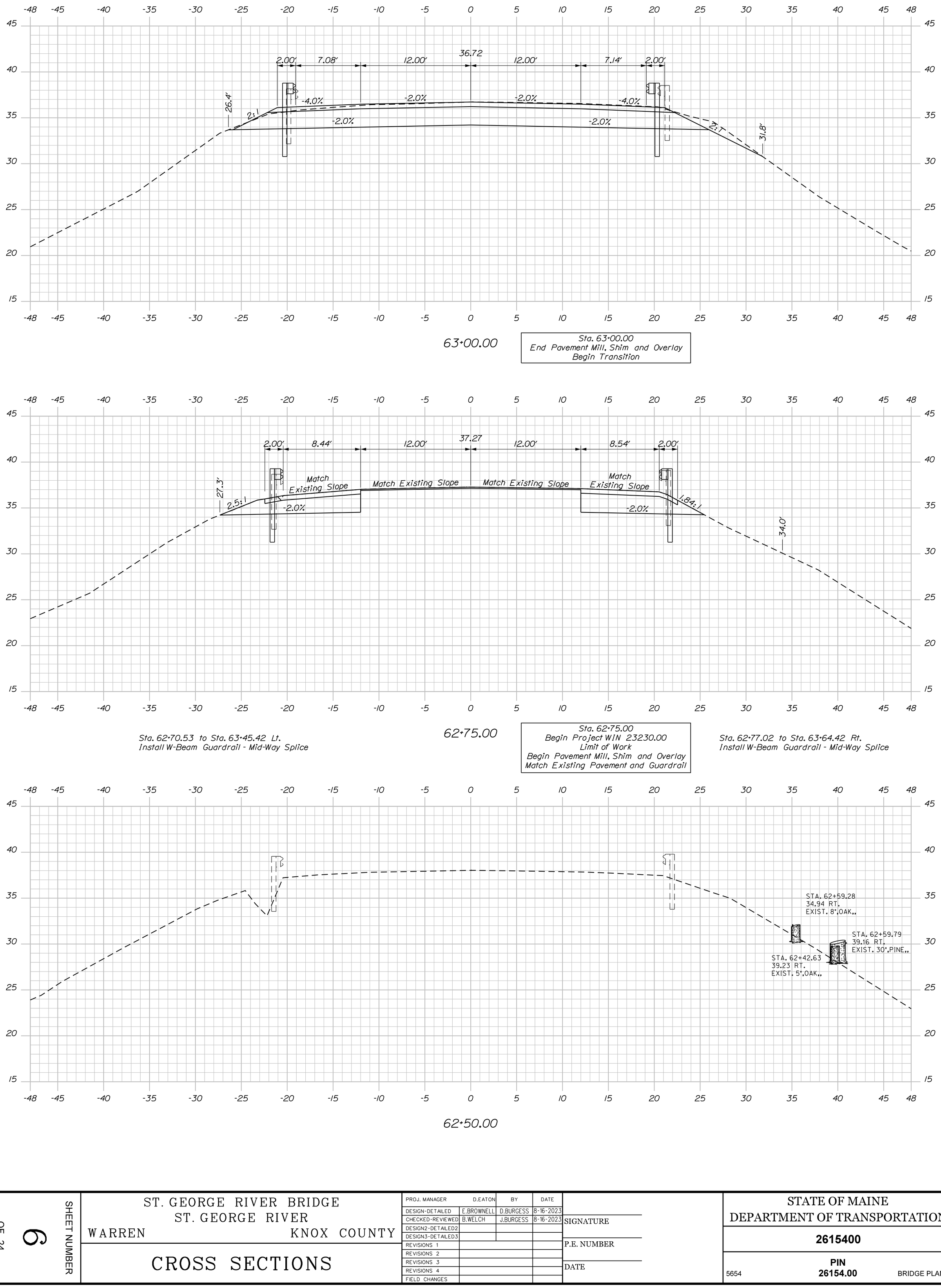
TYPICAL APPROACH SECTIONS

SHEET NUMBER

5

OF 24

Filename: ...\BRIDGE\MSTA\005_Typical_01.dgn Division: BRIDGE Username: common Date:8/23/2023



Sta. 62+50.00 to Sta. 63+00.00

SHEET NUMBER 6 OF 24

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

CROSS SECTIONS

PROJ. MANAGER	D.EATON	BY	DATE
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

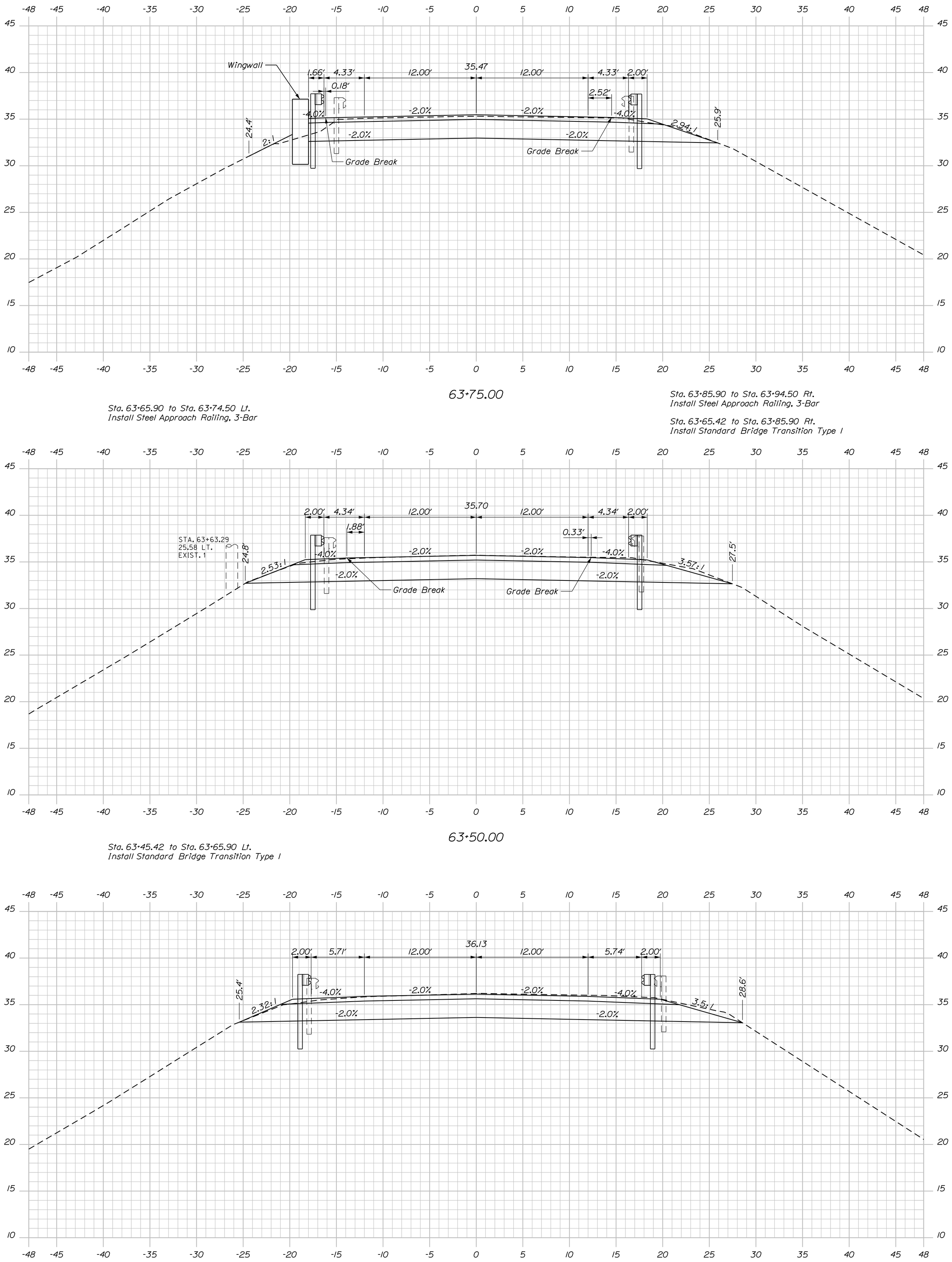
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

5654 **PIN 26154.00** BRIDGE PLANS

Filename: ...\00\BRIDGE\MSTA\006_XSect.dgn Division: BRIDGE Username: common Date:8/23/2023



63+75.00

Sta. 63+65.90 to Sta. 63+74.50 Lt.
Install Steel Approach Railing, 3-Bar

Sta. 63+85.90 to Sta. 63+94.50 Rt.
Install Steel Approach Railing, 3-Bar

Sta. 63+65.42 to Sta. 63+85.90 Rt.
Install Standard Bridge Transition Type I

63+50.00

Sta. 63+45.42 to Sta. 63+65.90 Lt.
Install Standard Bridge Transition Type I

63+25.00

Sta. 63+25.00
End Transition
Begin Full Depth Reconstruction

Sta. 63+25.00 to Sta. 63+75.00

OF 24 | 7 | SHEET NUMBER

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

CROSS SECTIONS

PROJ. MANAGER	D.EATON	BY	DATE
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

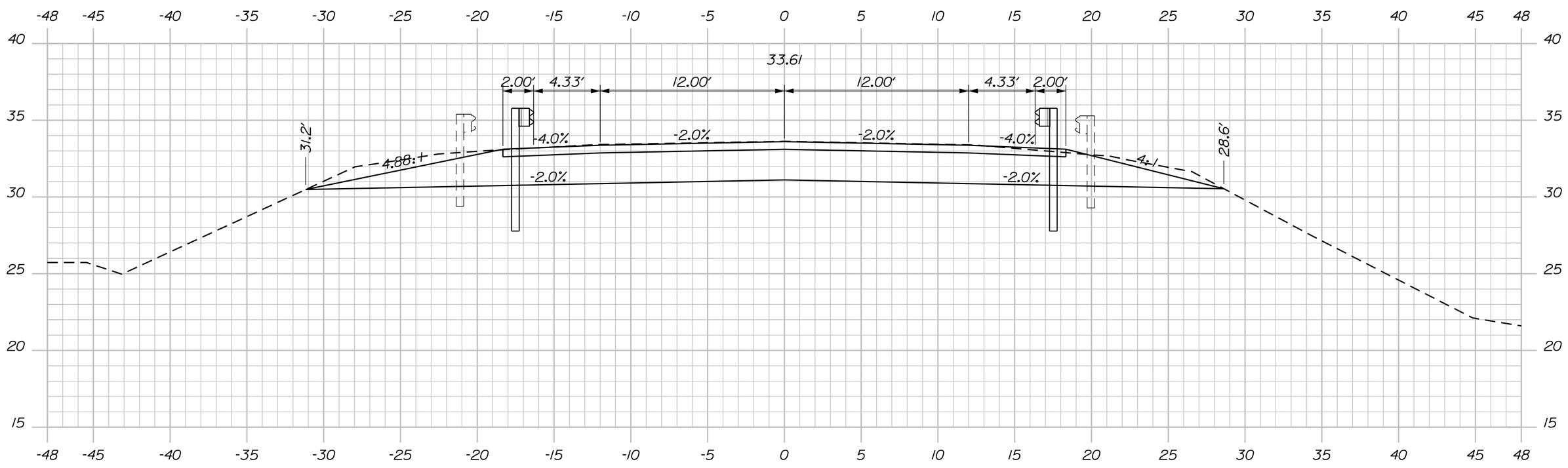
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

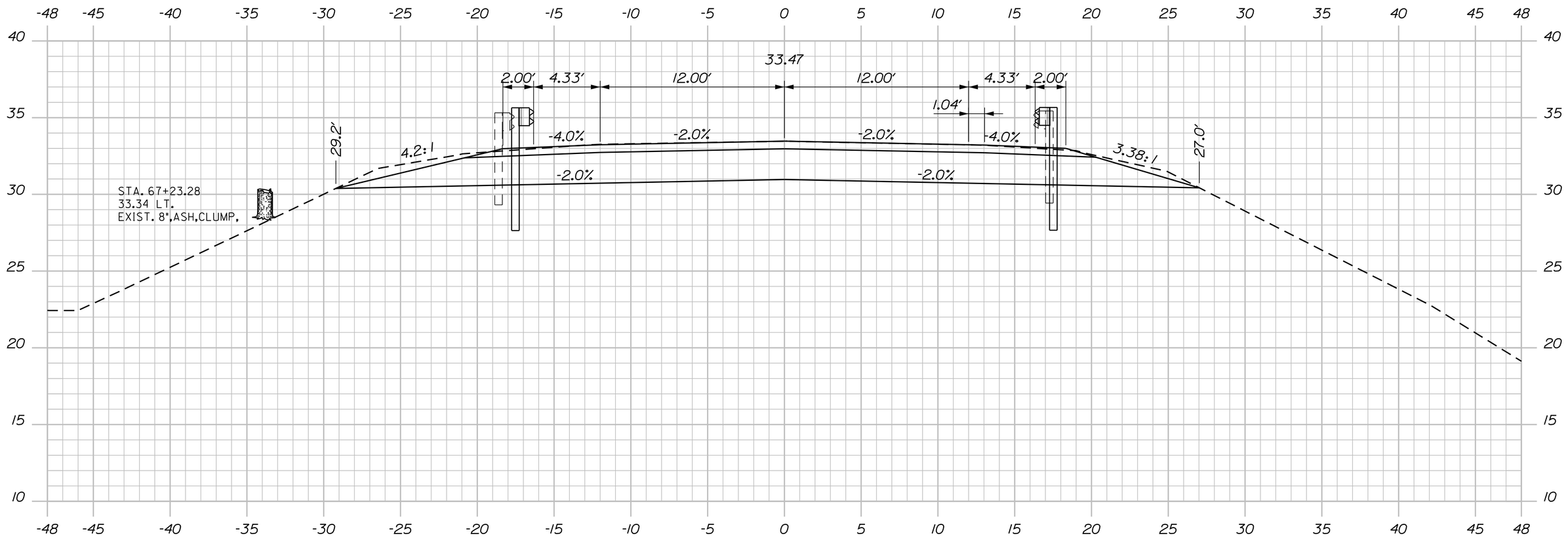
5654 **PIN 26154.00** BRIDGE PLANS

Filename: ...\00\BRIDGE\MSTA\006_XSect.dgn Division: BRIDGE Username: common Date:8/23/2023



67+50.00

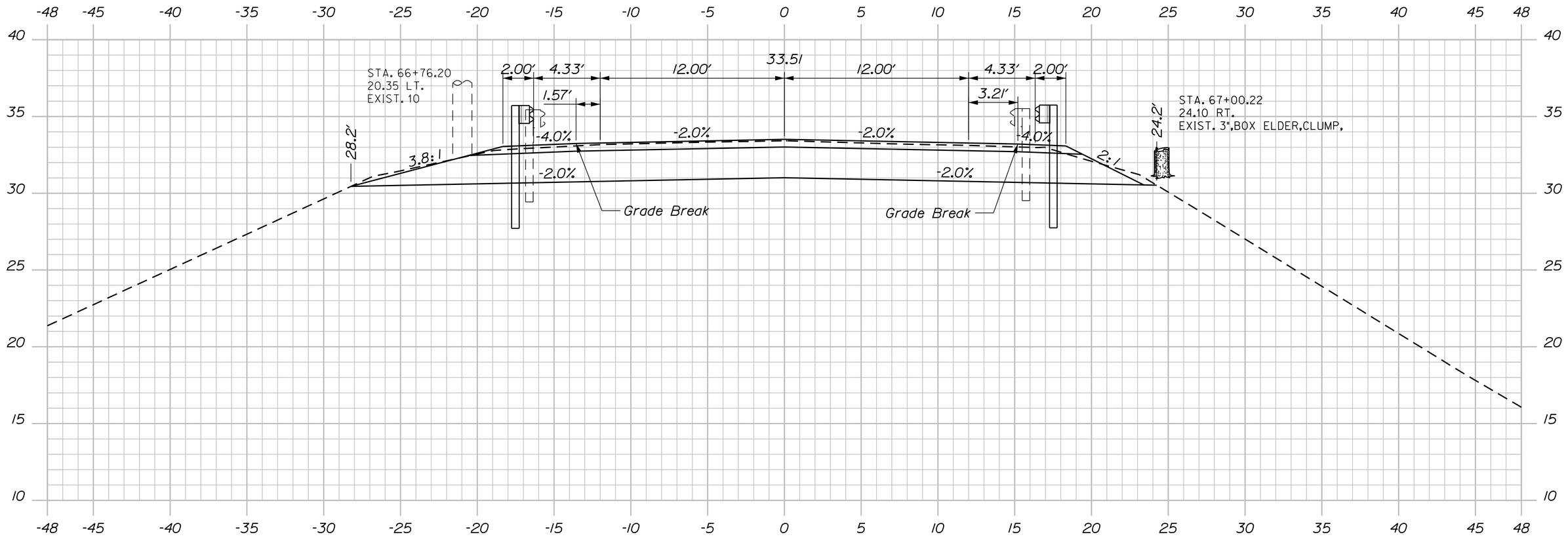
Sta. 67+50.00
End Full Depth Reconstruction
Begin Transition



67+25.00

Sta. 66+97.58 to Sta. 67+72.58 Lt.
Install W-Beam Guardrail - Mid-Way Splice

Sta. 67+16.58 to Sta. 68+04.08 Rt.
Install W-Beam Guardrail - Mid-Way Splice



67+00.00

Sta. 66+77.10 to Sta. 66+97.58 Lt.
Install Standard Bridge Transition Type I

Sta. 66+68.50 to Sta. 66+77.10 Lt.
Install Steel Approach Railing, 3-Bar

Sta. 66+96.10 to Sta. 67+16.58 Rt.
Install Standard Bridge Transition Type I

Sta. 66+87.50 to Sta. 66+96.10 Rt.
Install Steel Approach Railing, 3-Bar

Sta. 67+00.00 to Sta. 67+50.00

SHEET NUMBER 8 OF 24

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

CROSS SECTIONS

PROJ. MANAGER	D.EATON	BY	DATE
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

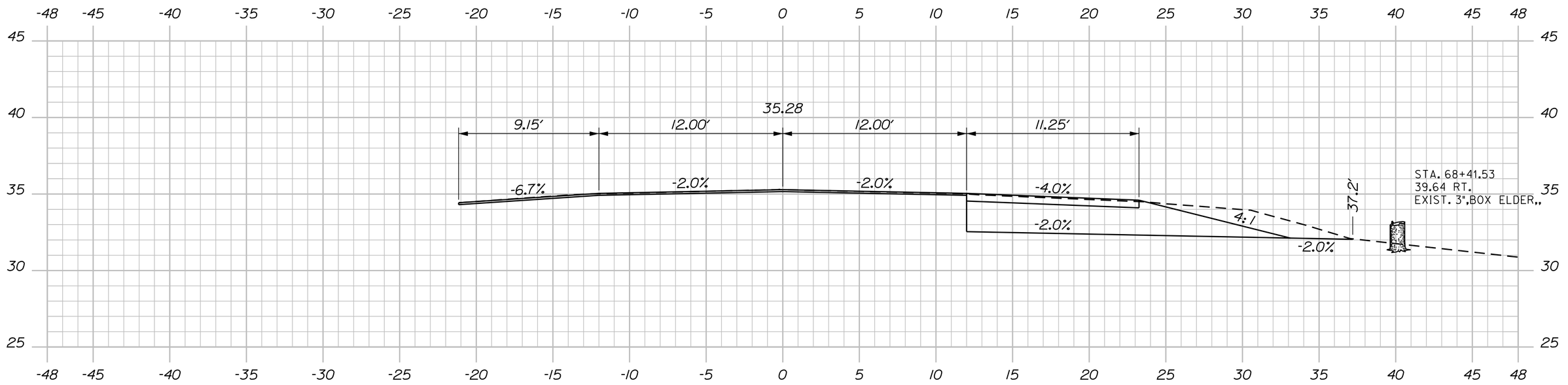
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

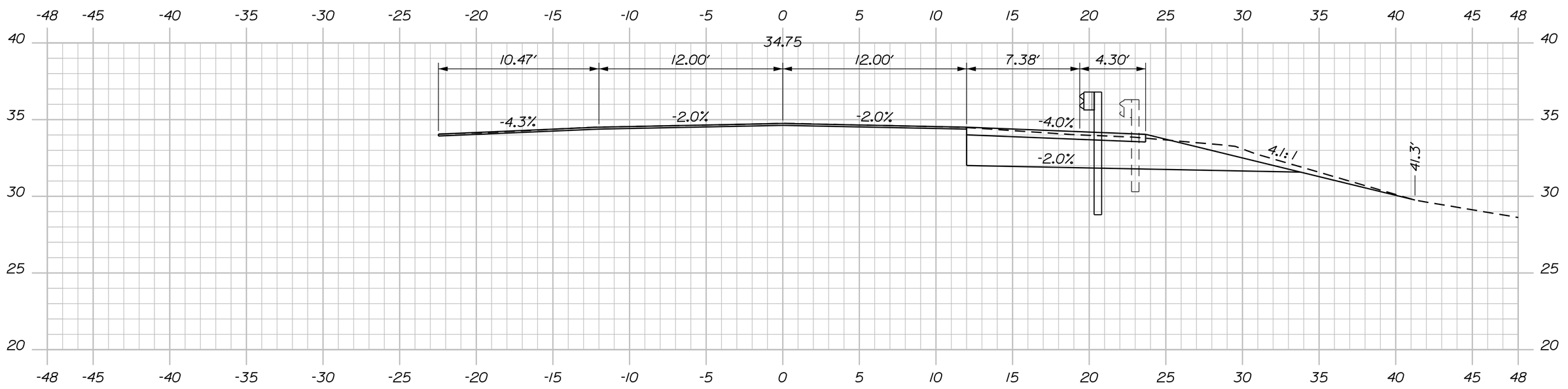
2615400

5654 PIN 26154.00 BRIDGE PLANS

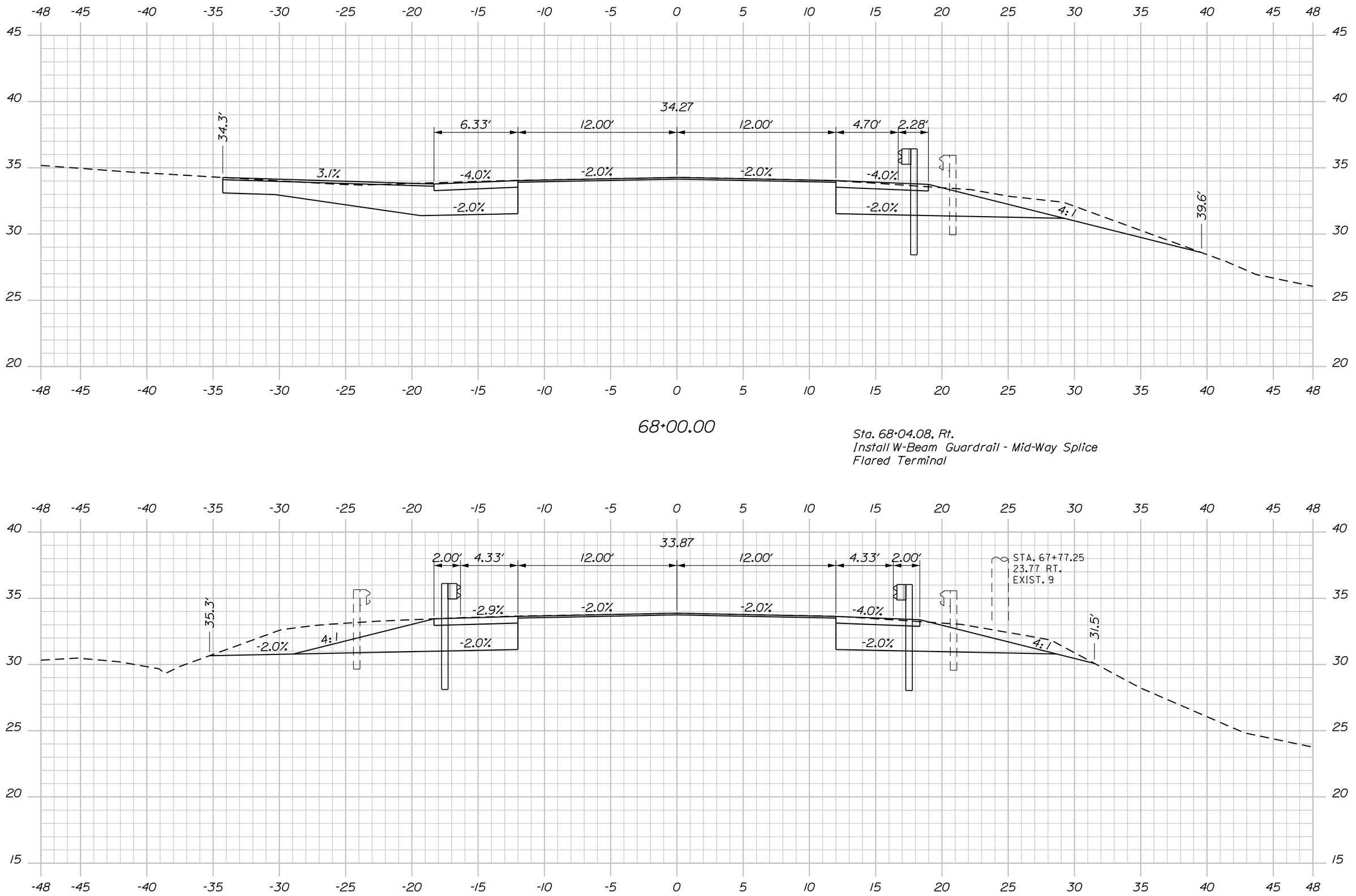
Filename: ...\00\BRIDGE\MSTA\006_XSect.dgn Division: BRIDGE Username: common Date:8/23/2023



68+50.00

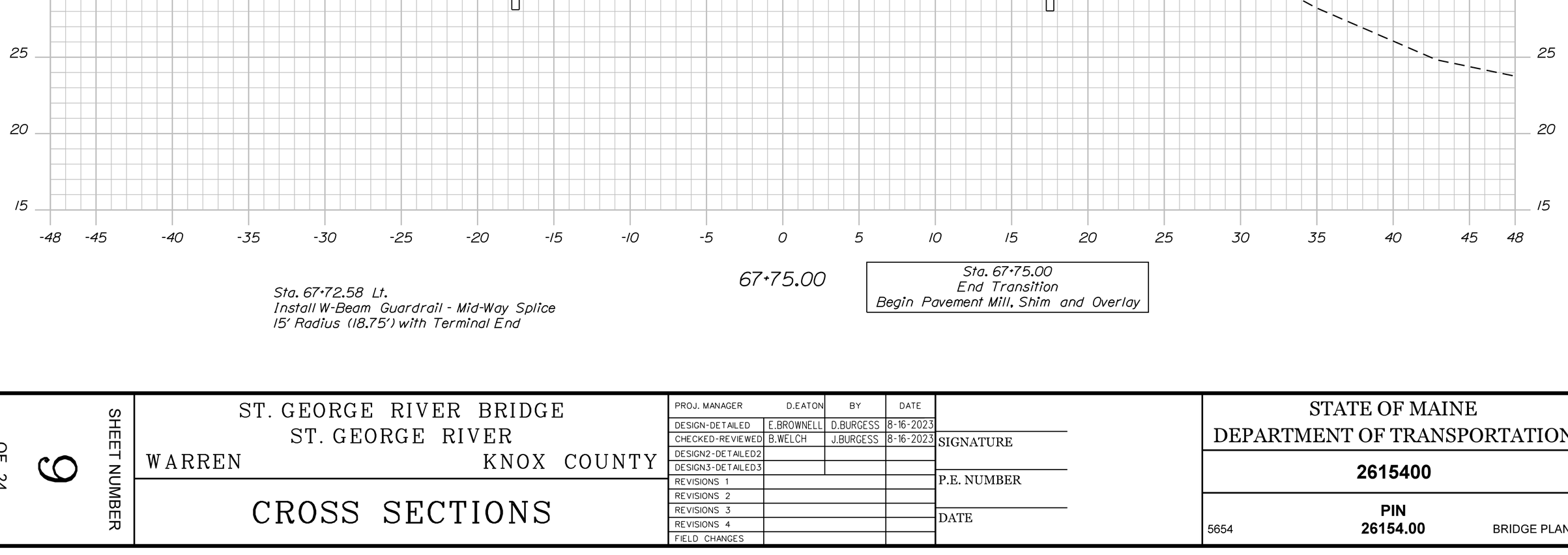


68+25.00



68+00.00

Sta. 68+04.08. Rt.
Install W-Beam Guardrail - Mid-Way Splice
Flared Terminal



67+75.00

Sta. 67+72.58 Lt.
Install W-Beam Guardrail - Mid-Way Splice
15' Radius (18.75') with Terminal End

Sta. 67+75.00
End Transition
Begin Pavement Mill, Shim and Overlay

Sta. 67+75.00 to Sta. 68+50.00

SHEET NUMBER 9 OF 24

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

CROSS SECTIONS

PROJ. MANAGER	D.EATON	BY	DATE
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

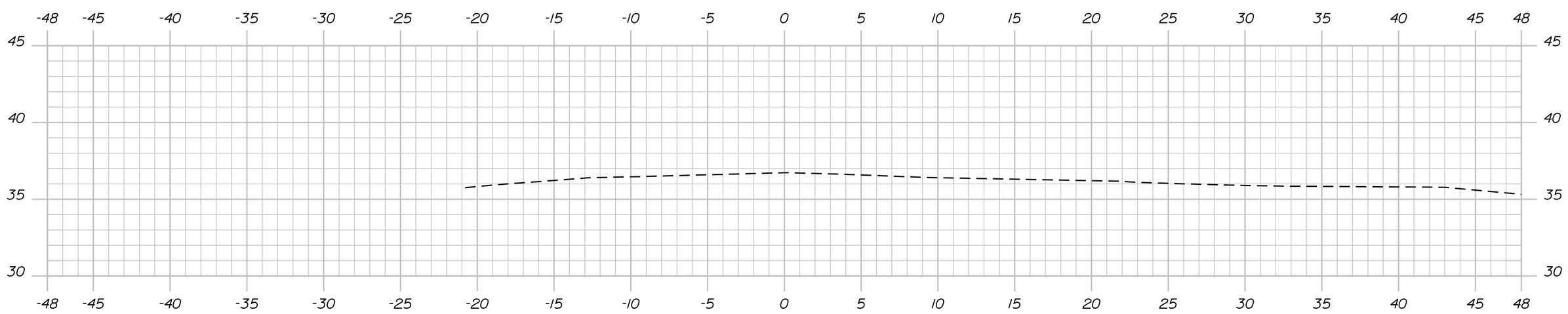
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

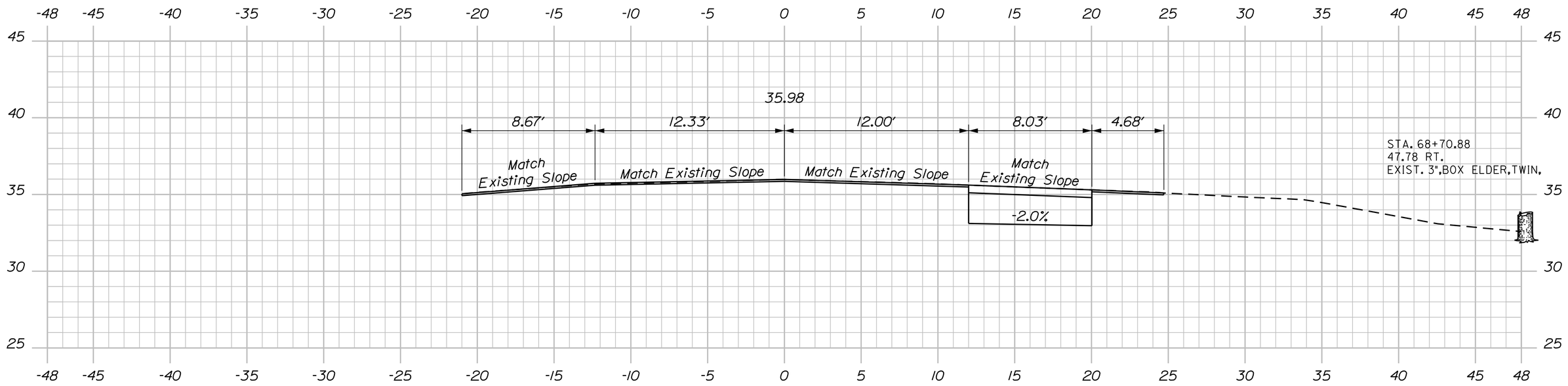
2615400

PIN
26154.00

5654 BRIDGE PLANS



69+00.00



68+75.00

Sta. 68+75.00
End Project WIN 23230.00
Limit of Work
End Pavement Mill, Shim and Overlay
Match Existing Pavement

Sta. 68+75.00 to Sta. 69+25.00

SHEET NUMBER 10 OF 24

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

CROSS SECTIONS

PROJ. MANAGER	D.EATON	BY	DATE
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

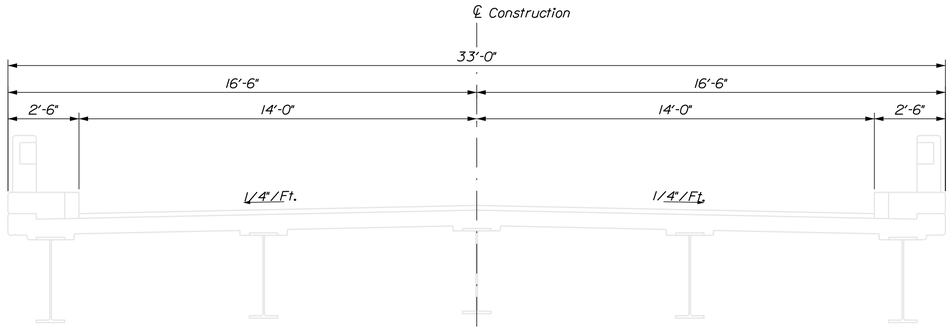
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

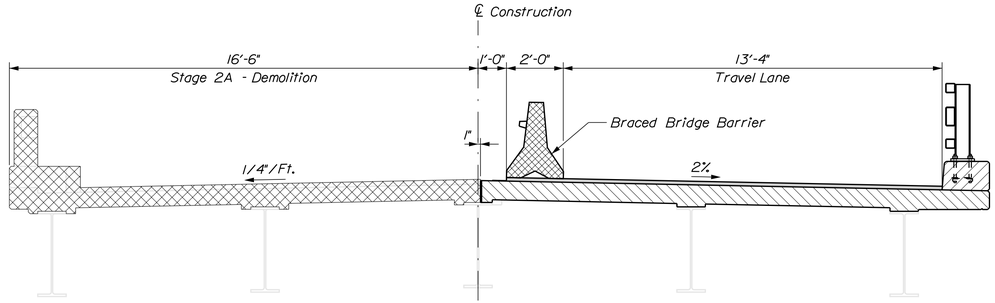
2615400

PIN
26154.00

5654 BRIDGE PLANS

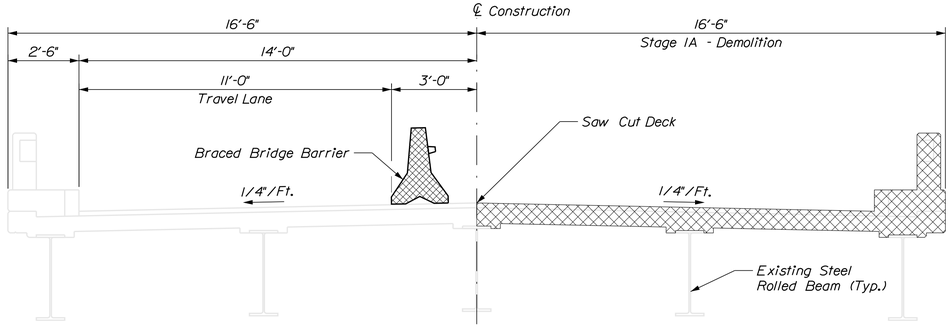


EXISTING TRANSVERSE SECTION



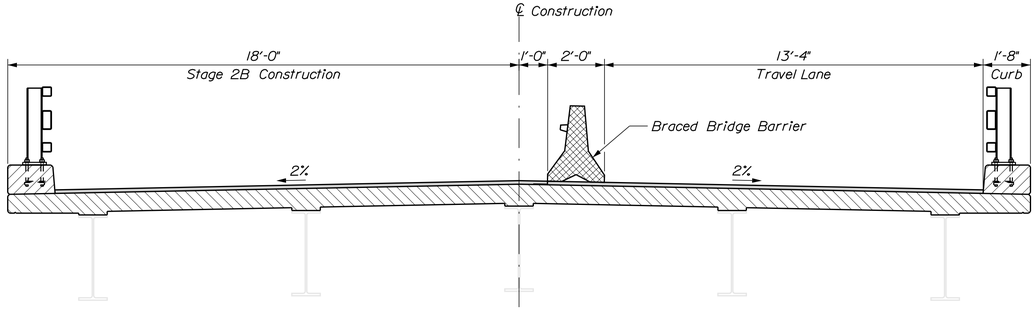
STAGE 2A - DEMOLITION

1. Reposition braced bridge barrier.
2. Shift traffic to the southerly side of the bridge.
3. Remove northerly side of existing bridge deck.



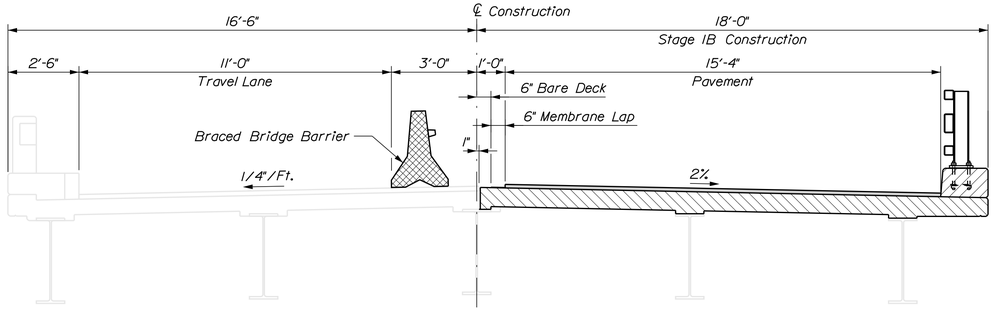
STAGE 1A - DEMOLITION

1. Install anchored bridge barrier.
2. Shift traffic to the northerly side of the bridge.
3. Remove southerly side of existing bridge deck.



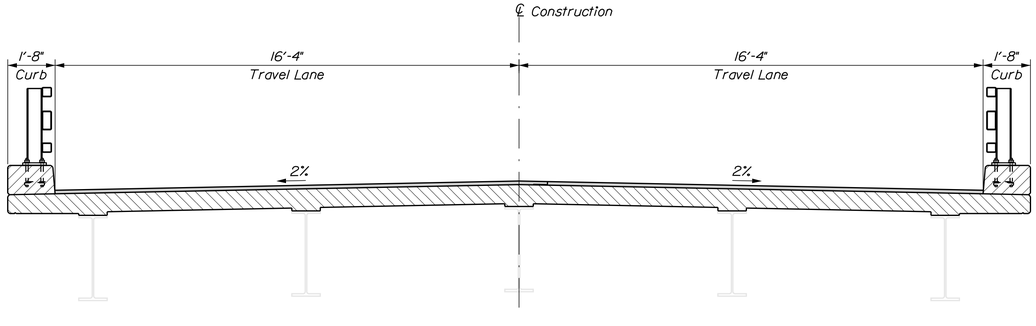
STAGE 2B - CONSTRUCTION

1. Contruct northerly side of bridge.
2. Install 1½" base lift.



STAGE 1B - CONSTRUCTION

1. Construct southerly side of bridge deck.
2. Install 1½" base lift.



STAGE 3 - CONSTRUCTION

1. Shift traffic as neccessary to install 1½" wearing course over entire bridge.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON
DESIGN-DETAILED	E.BROWNELL
CHECKED-REVIEWED	B.WELCH
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

	BY	DATE
REVISIONS 1	D.BURGESS	8-16-2023
REVISIONS 2	J.BURGESS	8-16-2023
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

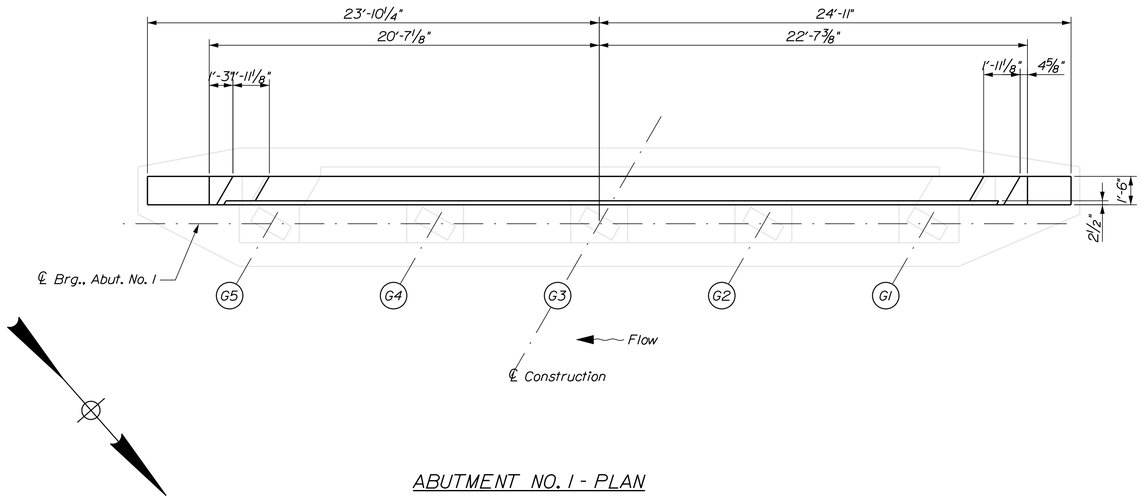
STAGED CONSTRUCTION SECTIONS

SHEET NUMBER

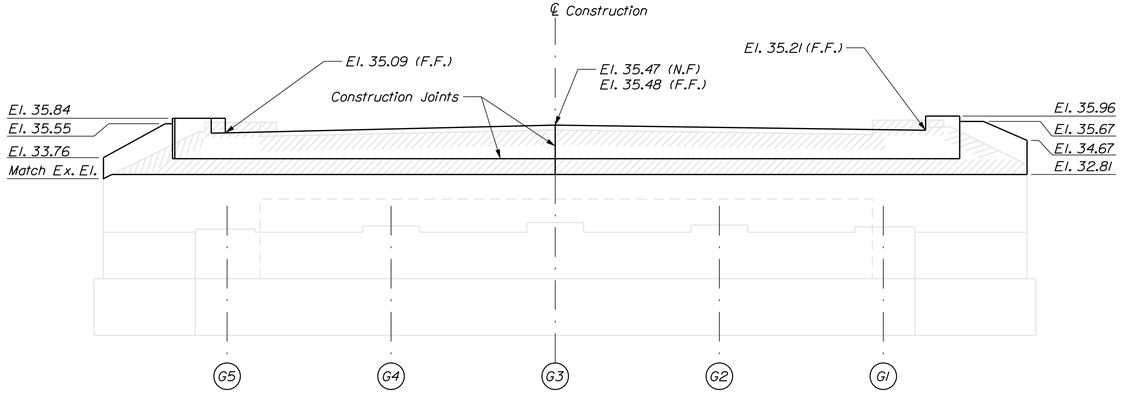
11

OF 24

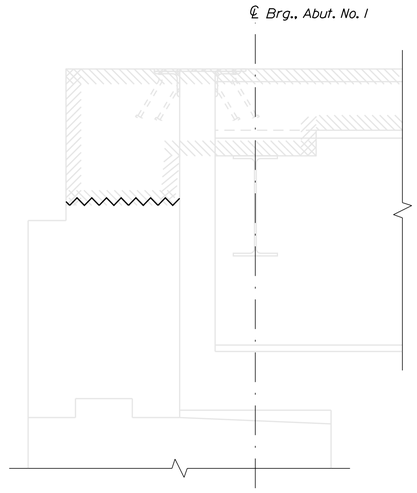
Filename: ...\011_Staged Construction.dgn Division: BRIDGE Username: common Date:8/23/2023



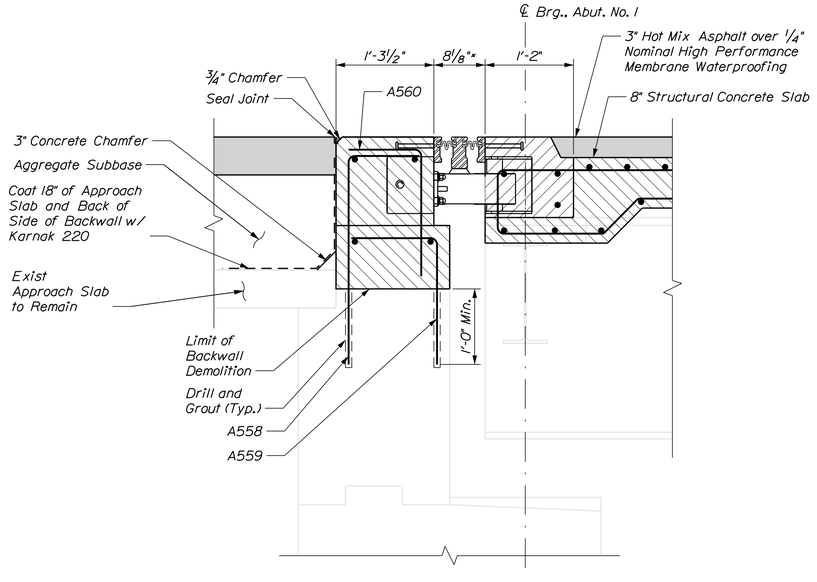
ABUTMENT NO. 1 - PLAN



ABUTMENT NO. 1 - ELEVATION



DEMOLITION SECTION - ABUTMENT NO. 1



* See Temperature Adjustment Table on Modular Joint Details Sheet.

END OF DECK SECTION - ABUTMENT NO. 1

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON			
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023	
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023	
DESIGN2-DETAILED2				
DESIGN3-DETAILED3				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

P.E. NUMBER

SIGNATURE

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
KNOX COUNTY
WARREN

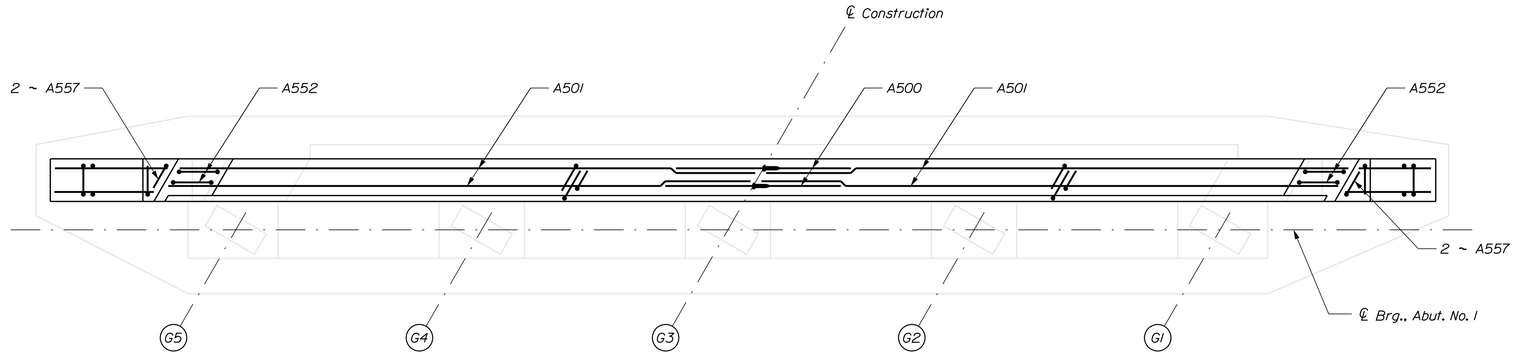
ABUTMENT NO. 1
MODIFICATIONS

SHEET NUMBER

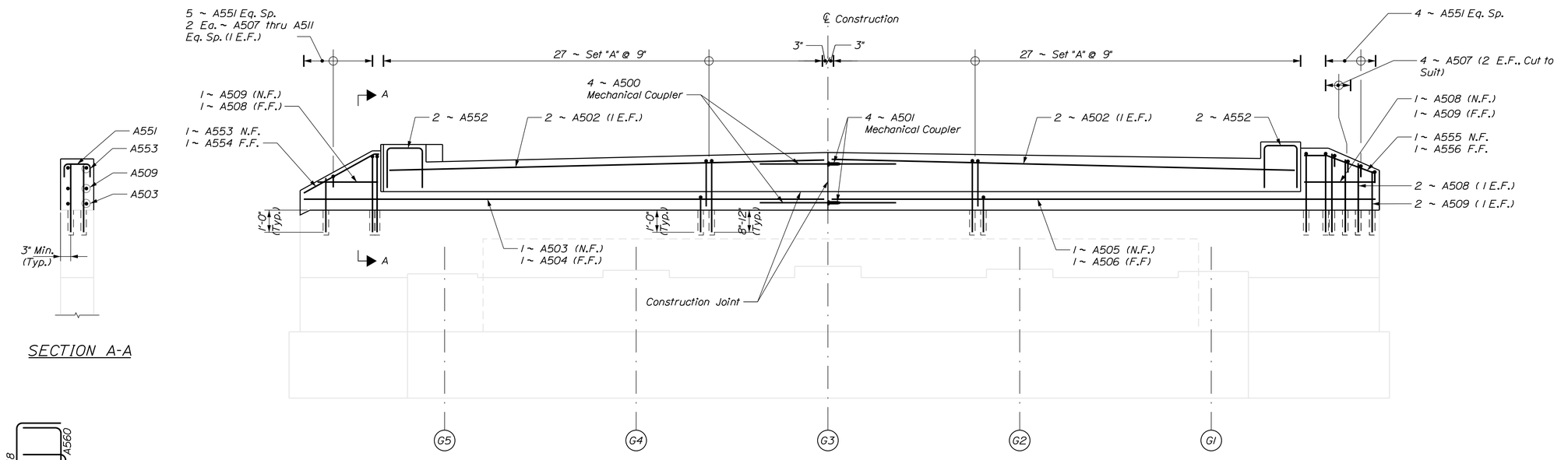
12

OF 24

Filename: ...\MSTA\012_Abut1Mod_01.dgn Division: BRIDGE Username: common Date:8/23/2023



ABUTMENT NO. 1 - REINFORCEMENT PLAN



ABUTMENT NO. 1 - REINFORCEMENT ELEVATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON		
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

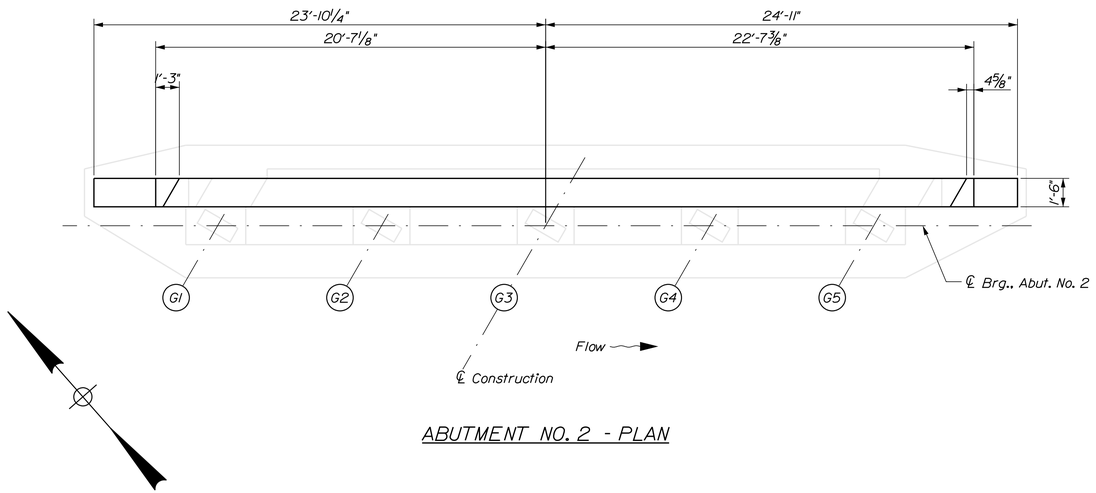
ABUTMENT NO. 1
REINFORCEMENT

SHEET NUMBER

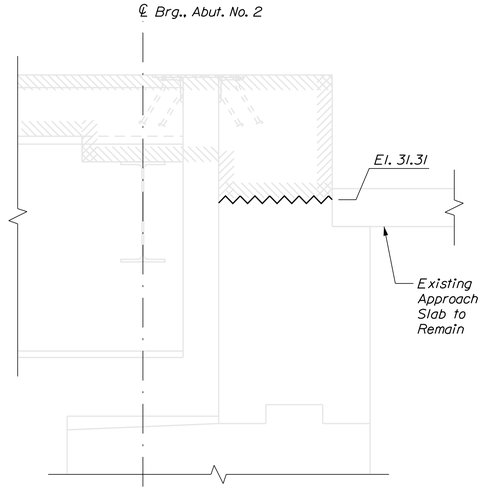
13

OF 24

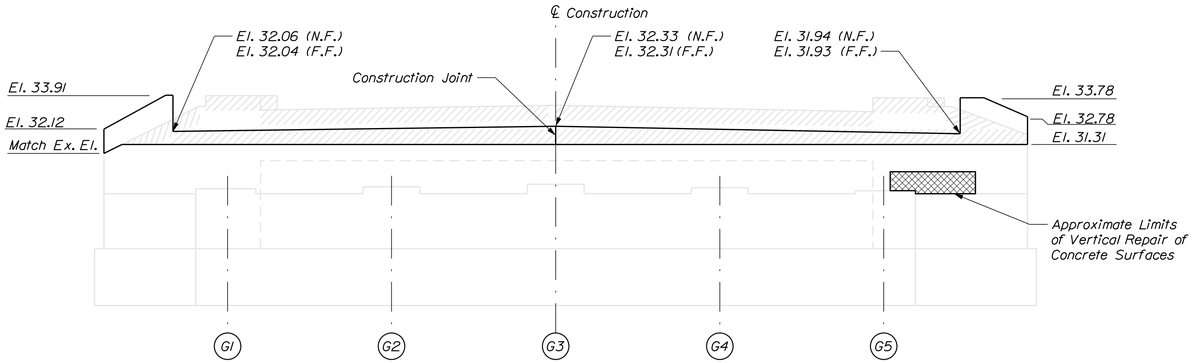
Filename: ...\MSTA\013_Abut1-Reinf_03.dgn Division: BRIDGE Username: common Date:8/23/2023



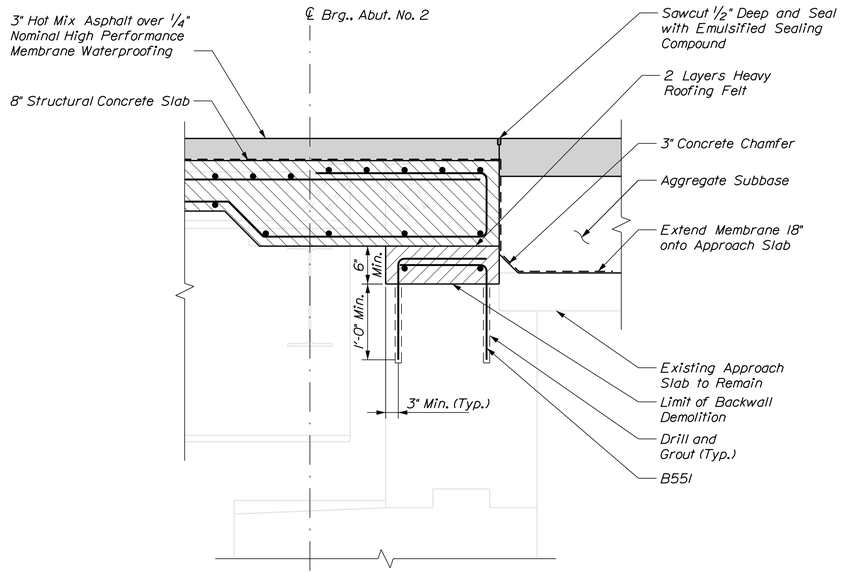
ABUTMENT NO. 2 - PLAN



DEMOLITION SECTION - ABUTMENT NO. 2



ABUTMENT NO. 2 - ELEVATION



Note: Payment for pavement sawcut and seal will be considered incidental to related Contract items.

END OF DECK SECTION - ABUTMENT NO. 2

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

	BY	DATE
PROJ. MANAGER	D.EATON	
DESIGN-DETAILED	D.BURGESS	8-16-2023
CHECKED-REVIEWED	E.BROWNELL	
DESIGN2-DETAILED2	B.WELCH	
DESIGN3-DETAILED3	J.BURGESS	8-16-2023
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
KNOX COUNTY
WARREN

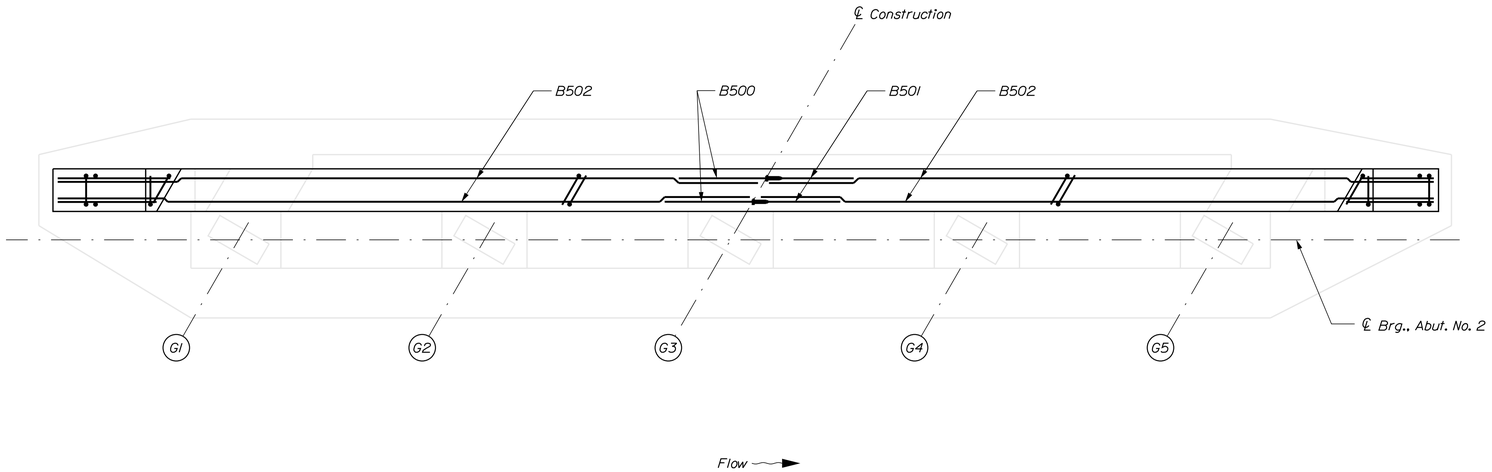
ABUTMENT NO. 2 MODIFICATIONS

SHEET NUMBER

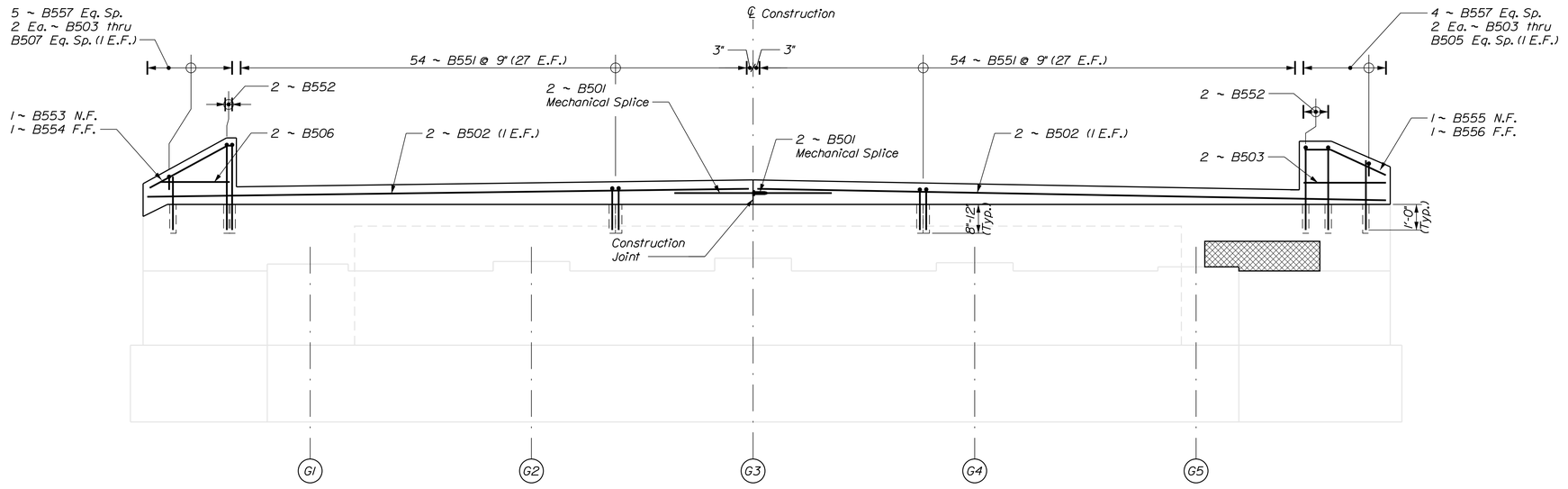
14

OF 24

Filename: ...\MSTA\014_Abut2Mod_02.dgn Division: BRIDGE Username: common Date:8/23/2023



ABUTMENT NO. 2 - REINFORCEMENT PLAN



ABUTMENT NO. 2 - REINFORCEMENT ELEVATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

		BY	DATE
PROJ. MANAGER	D.EATON		
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
KNOX COUNTY
WARREN

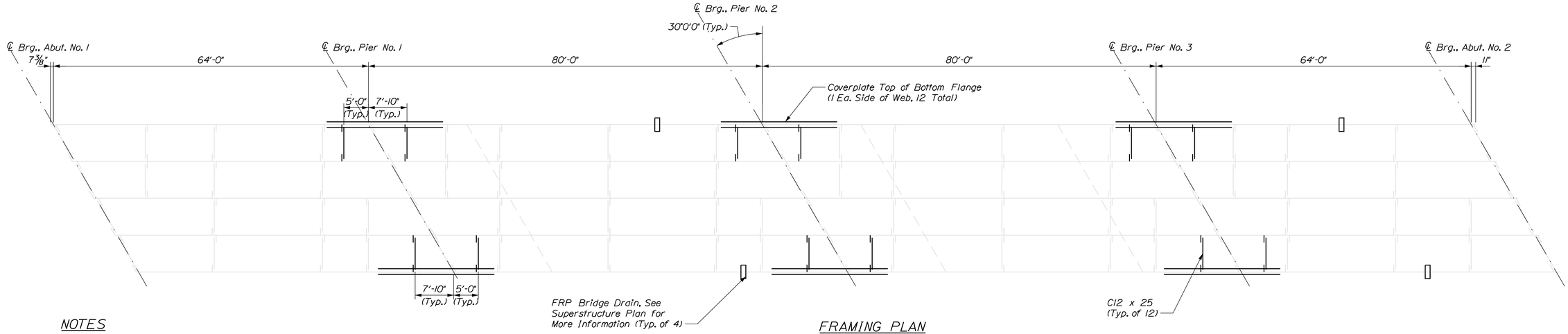
ABUTMENT NO. 2 REINFORCEMENT

SHEET NUMBER

15

OF 24

Filename: ...\MSTA\015_Abut2-Reinf_04.dgn Division: BRIDGE Username: common Date:8/23/2023



FRAMING PLAN

NOTES

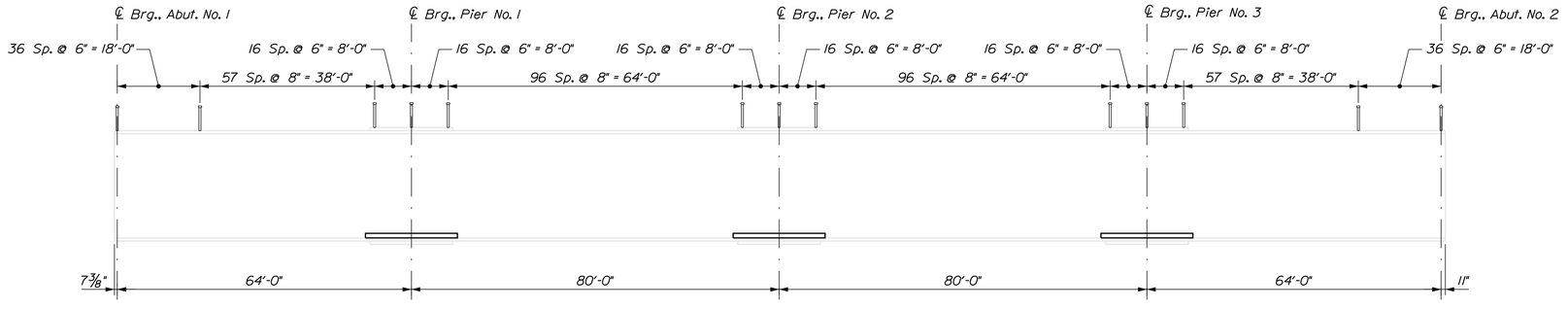
1. Prior to installing the proposed shear connectors, coverplate and connection plates, the Contractor shall clean the existing steel so that it is free of debris, rust, scale, oil and other contaminates that would adversely affect welding operation. Surface shall be cleaned in accordance with SSPC-SP 11, Power Tool Cleaning to Bare Metal. Payment for cleaning the existing steel for installation of proposed shear connectors, coverplates and connection plates shall be incidental to related Contract items. If lead paint is encountered while cleaning existing steel, the Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste.

2. The proposed shear connectors shall be ⅞" diameter. Shear connectors shall penetrate above the bottom of the deck a minimum of 2" and a clear cover of 2" at the top of the deck.

4. Diaphragm connection plates may be either plumb or normal to the top flange.

5. Supplemental diaphragms shall be steel conforming to the requirements of ASTM A709, Grade 36, galvanized.

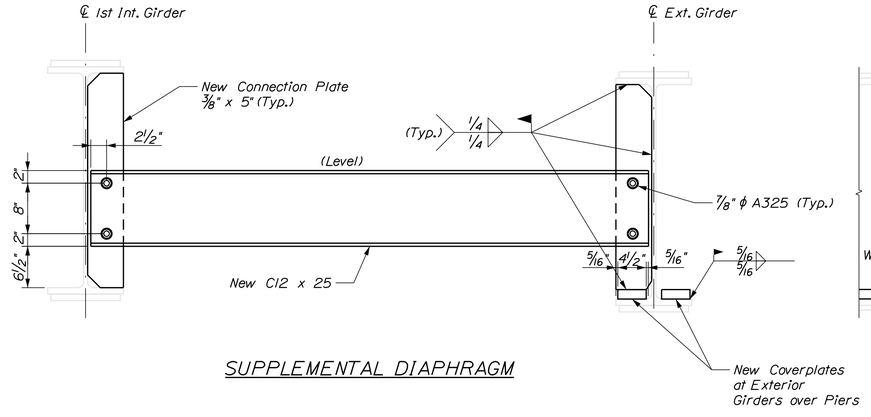
6. Cover plates and connection plates shall be coated with a zinc-rich coating system in accordance with Standard Specifications Section 506, Shop Applied Protective Coating - Steel (Zinc-Rich Coating System). NEPCOAT Qualified Products List C may be used. Paint coatings shall be touched up in the field after welding procedures. Finish top coat color shall match Federal Standard 595C, Color No. 14272, Light Green. All costs related to coating and touching up the diaphragms and connection plates will be considered incidental to related structural steel Contract items.



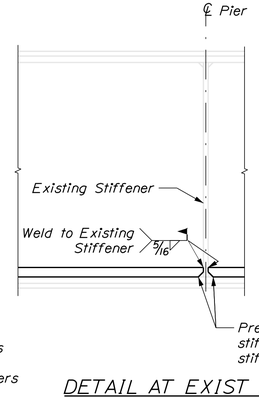
SHEAR CONNECTOR LAYOUT

950 Shear Connectors per Beam = 4,750 Shear Connectors Total

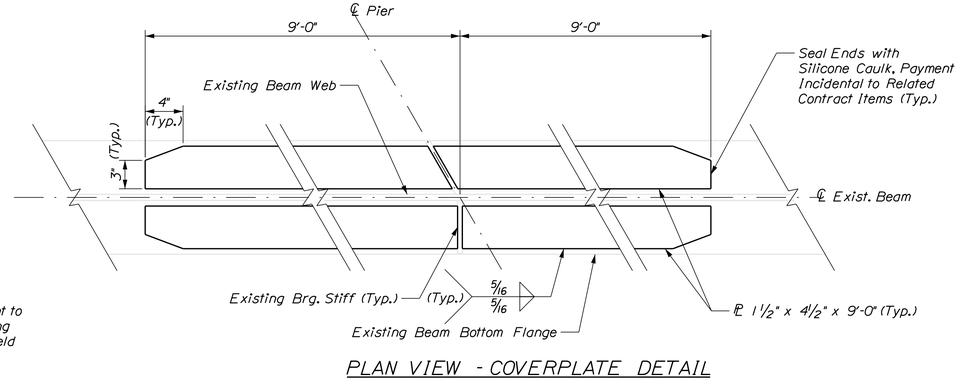
In the event of conflict between shear connector and coverplate end taper or splice plates adjust shear connector spacing to avoid conflict, but maintain minimum pitch of 5¼".



SUPPLEMENTAL DIAPHRAGM



DETAIL AT EXIST BRG STIFF



PLAN VIEW - COVERPLATE DETAIL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

	BY	DATE
DESIGN-DETAILED	D.BURGESS	8-16-2023
CHECKED-REVIEWED	J.BURGESS	8-16-2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER: D.EATON
DESIGN-DETAILED: E.BROWNELL
CHECKED-REVIEWED: B.WELCH
DESIGN2-DETAILED2:
DESIGN3-DETAILED3:

SIGNATURE

P.E. NUMBER

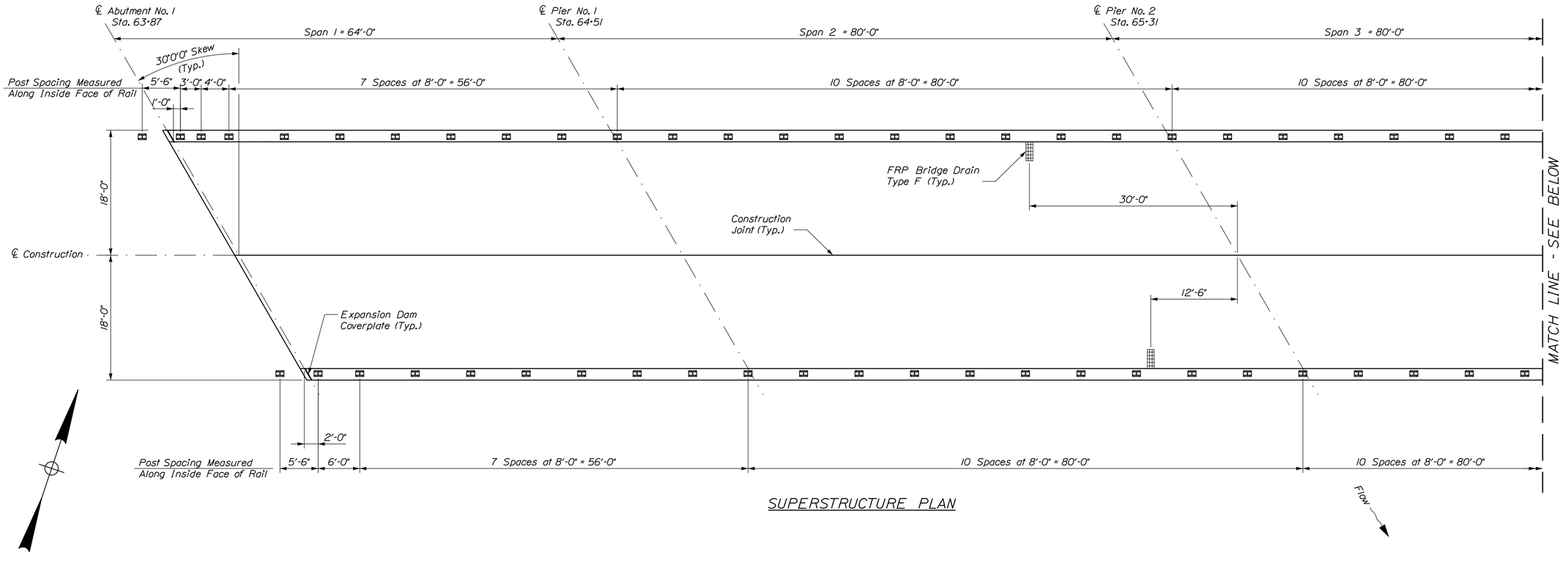
DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

FRAMING PLAN

SHEET NUMBER
16
OF 24

Filename: ...\BRIDGE\MSTA\016_Framing_01.dgn Division: BRIDGE Username: common Date:8/23/2023



SUPERSTRUCTURE PLAN

SUPERSTRUCTURE NOTES

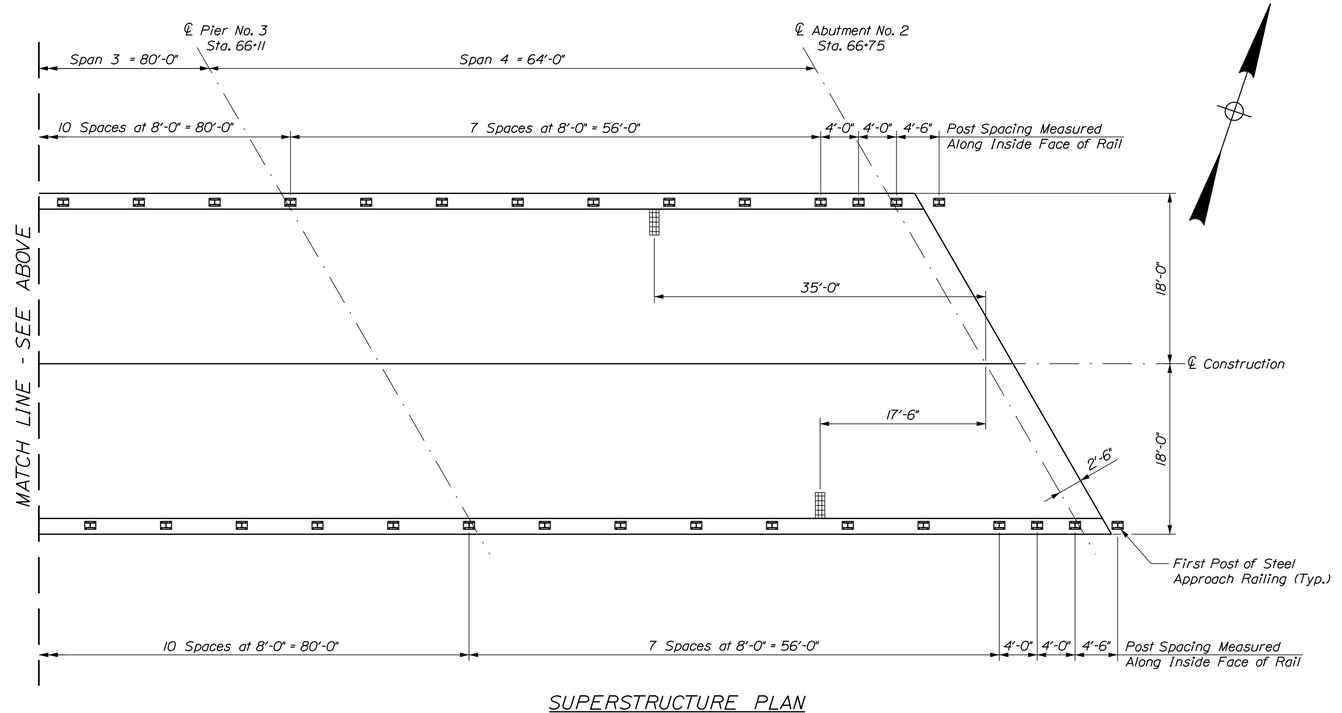
1. The theoretical blocking used for design of the structure is 2¼ inches at the centerline of bearing of the abutments and piers.

2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.

3. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.

4. Unless the superstructure slab concrete is placed in one continuous operation, the initial placement shall begin at a simply supported end of the deck slab and shall terminate at the completion of a positive moment section. Successive placements shall proceed from the end of the previous placement, terminate at the completion of a positive moment section, and include two or more spans. Concrete in a placement shall be kept plastic one complete span behind the span being placed. A minimum of 5 days shall elapse between successive partial placements. The superstructure slab concrete placement sequence shall be approved by the Resident.

5. Payment for 3" concrete chamfer strips will be considered incidental to related Contract items.



SUPERSTRUCTURE PLAN

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON		
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2	ED2		
DESIGN3-DETAILED3	ED3		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
KNOX COUNTY
WARREN

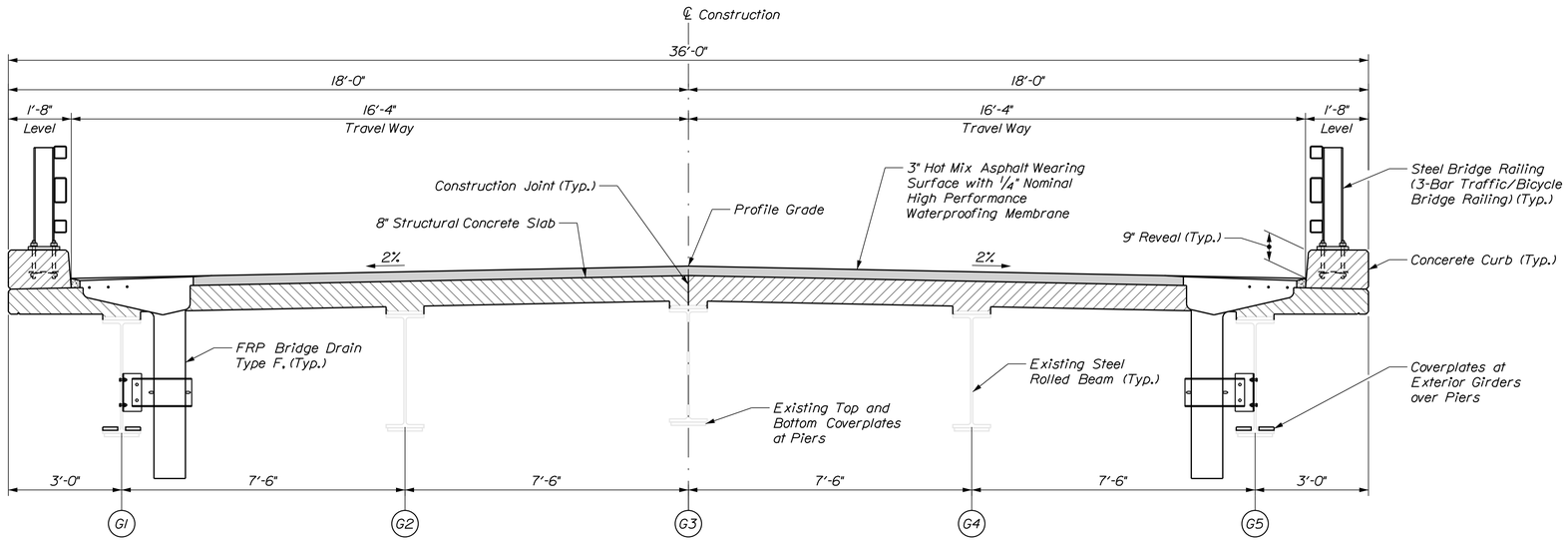
SUPERSTRUCTURE PLAN

SHEET NUMBER

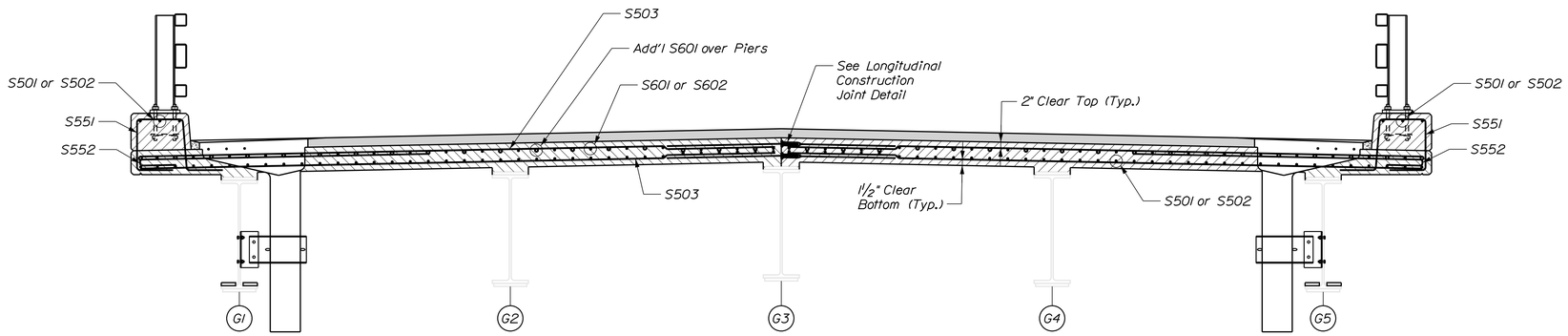
17

OF 24

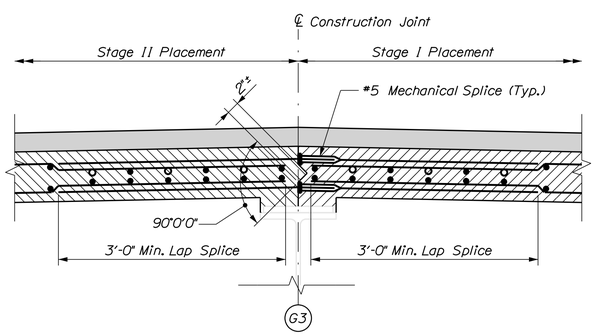
Filename: ...\MSTA\017_SuperPlan_01.dgn Division: BRIDGE Username: common Date:8/23/2023



TRANSVERSE SECTION



TRANSVERSE SECTION REINFORCING



LONGITUNDINAL CONSTRUCTION JOINT DETAIL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

	BY	DATE
PROJ. MANAGER	D.EATON	
DESIGN-DETAILED	E.BROWNELL	D.BURGESS 8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS 8-16-2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
KNOX COUNTY
WARREN

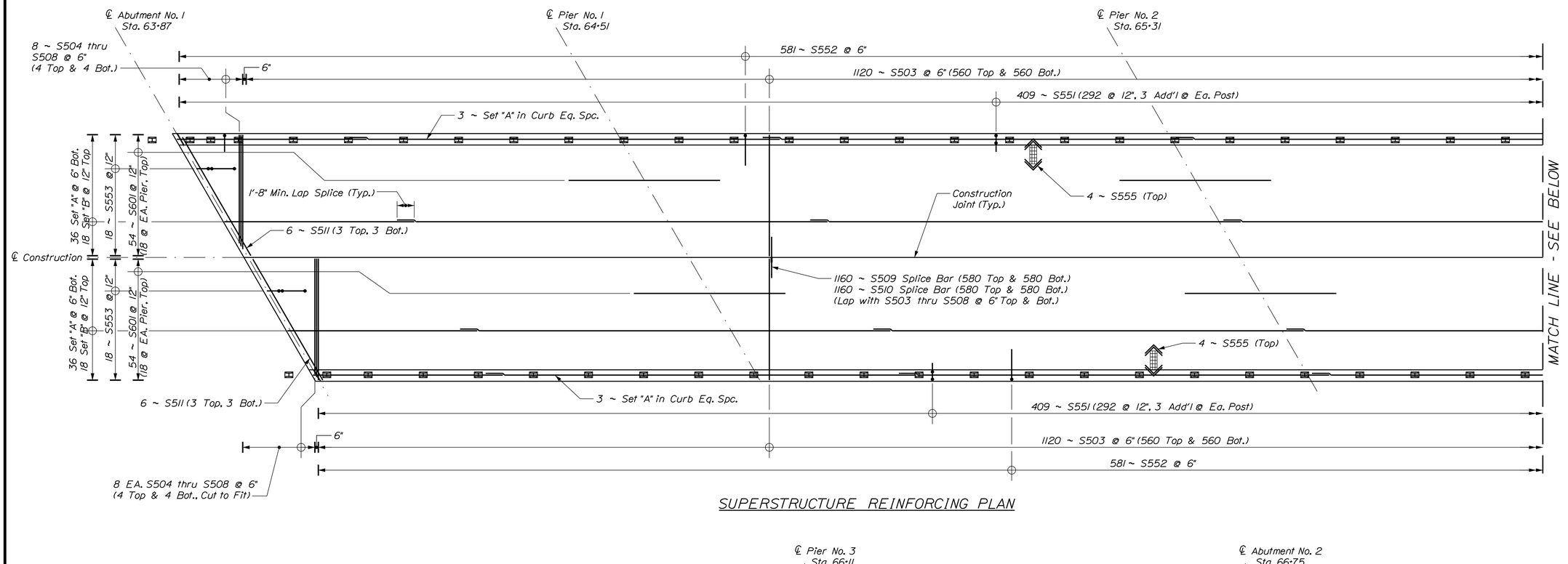
TRANSVERSE SECTION

SHEET NUMBER

18

OF 24

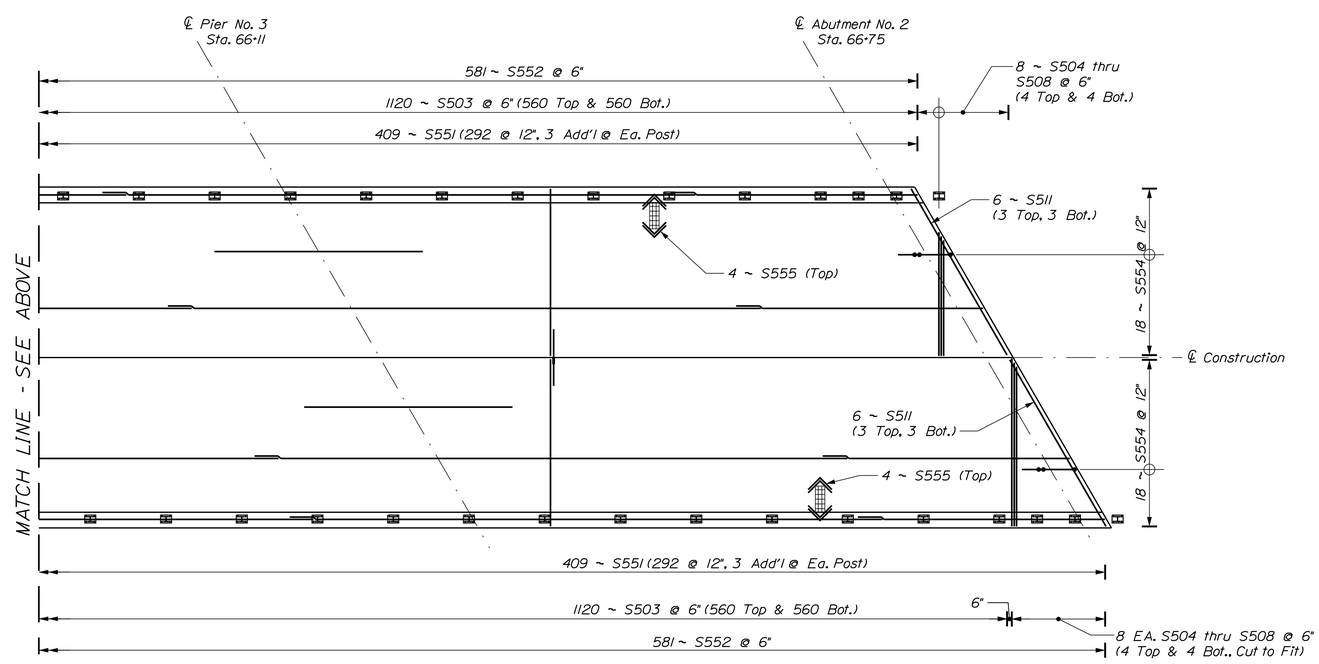
Filename: ...\MSTA\018_SuperSect_02.dgn Division: BRIDGE Username: common Date:8/23/2023



SUPERSTRUCTURE REINFORCING PLAN

Set "A"
2 ~ S501
4 ~ S502
Alternate position of S502 to stagger lap splice location

Set "B"
2 ~ S601
4 ~ S602
Alternate position of S602 to stagger lap splice location



SUPERSTRUCTURE REINFORCING PLAN

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON		
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

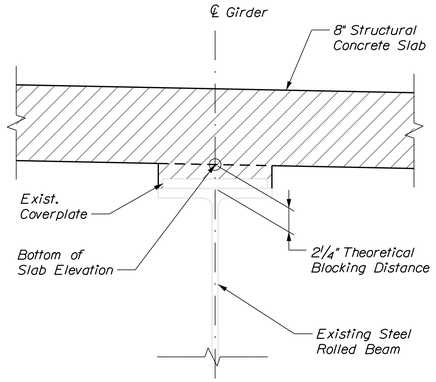
SUPERSTRUCTURE REINFORCING PLAN

SHEET NUMBER

19

OF 24

Filename: ...\MSTA\019_SuperReinf_03.dgn Division: BRIDGE Username: common Date:8/23/2023



BLOCKING DETAIL

Do not use for setting formwork

BOTTOM OF SLAB ELEVATION - SPAN 1											
Girder	℄ Brg., Abut. No. 1	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	06 L	0.7 L	0.8 L	0.9 L	℄ Brg., Pier No. 1
G1	34.27	34.24	34.21	34.18	34.14	34.10	34.06	34.02	33.97	33.93	33.89
G2	34.39	34.37	34.34	34.30	34.27	34.23	34.19	34.14	34.10	34.05	34.01
G3	34.52	34.49	34.46	34.43	34.39	34.35	34.31	34.26	34.22	34.18	34.14
G4	34.34	34.31	34.29	34.25	34.22	34.18	34.13	34.09	34.04	34.00	33.96
G5	34.17	34.14	34.11	34.08	33.04	34.00	33.96	33.91	33.87	33.82	33.78

BOTTOM OF SLAB ELEVATION - SPAN 2											
Girder	℄ Brg., Pier No. 1	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	06 L	0.7 L	0.8 L	0.9 L	℄ Brg., Pier No. 2
G1	33.89	33.84	33.80	33.76	33.72	33.67	33.62	33.57	33.51	33.46	33.41
G2	34.01	33.97	33.93	33.89	33.85	33.80	33.75	33.70	33.64	33.58	33.53
G3	34.14	34.09	34.05	34.01	33.97	33.92	33.87	33.82	33.76	33.71	33.66
G4	33.96	33.91	33.87	33.84	33.79	33.75	33.70	33.64	33.59	33.53	33.48
G5	33.78	33.74	33.70	33.66	33.62	33.57	33.52	33.47	33.41	33.35	33.30

BOTTOM OF SLAB ELEVATION - SPAN 3											
Girder	℄ Brg., Pier No. 2	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	06 L	0.7 L	0.8 L	0.9 L	℄ Brg., Pier No. 3
G1	33.41	33.36	33.32	33.28	33.24	33.19	33.14	33.09	33.03	32.98	32.93
G2	33.53	33.49	33.45	33.41	33.37	33.32	33.27	33.22	33.16	33.10	33.05
G3	33.66	33.61	33.57	33.53	33.49	33.44	33.39	33.34	33.28	33.23	33.18
G4	33.48	33.43	33.39	33.36	33.31	33.27	33.22	33.16	33.11	33.05	33.00
G5	33.30	33.26	33.22	33.18	33.14	33.09	32.04	32.99	32.93	32.87	32.82

BOTTOM OF SLAB ELEVATION - SPAN 4											
Girder	℄ Brg., Pier No. 3	0.1 L	0.2 L	0.3 L	0.4 L	0.5 L	06 L	0.7 L	0.8 L	0.9 L	℄ Brg., Abut. No. 2
G1	32.93	32.89	32.86	32.83	32.79	32.76	32.72	32.68	32.64	32.59	32.54
G2	33.05	33.01	32.98	32.95	32.92	32.88	32.85	32.81	32.76	32.72	32.67
G3	33.18	33.14	33.11	33.07	33.04	33.01	32.97	32.93	32.89	32.84	32.79
G4	33.00	32.96	32.93	32.90	32.87	32.83	32.80	32.75	32.71	32.66	32.62
G5	32.82	32.79	32.75	32.72	32.69	32.66	32.62	32.58	32.53	32.49	32.44

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

5654

BRIDGE PLANS

PROJ. MANAGER	D.EATON	BY	DATE
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

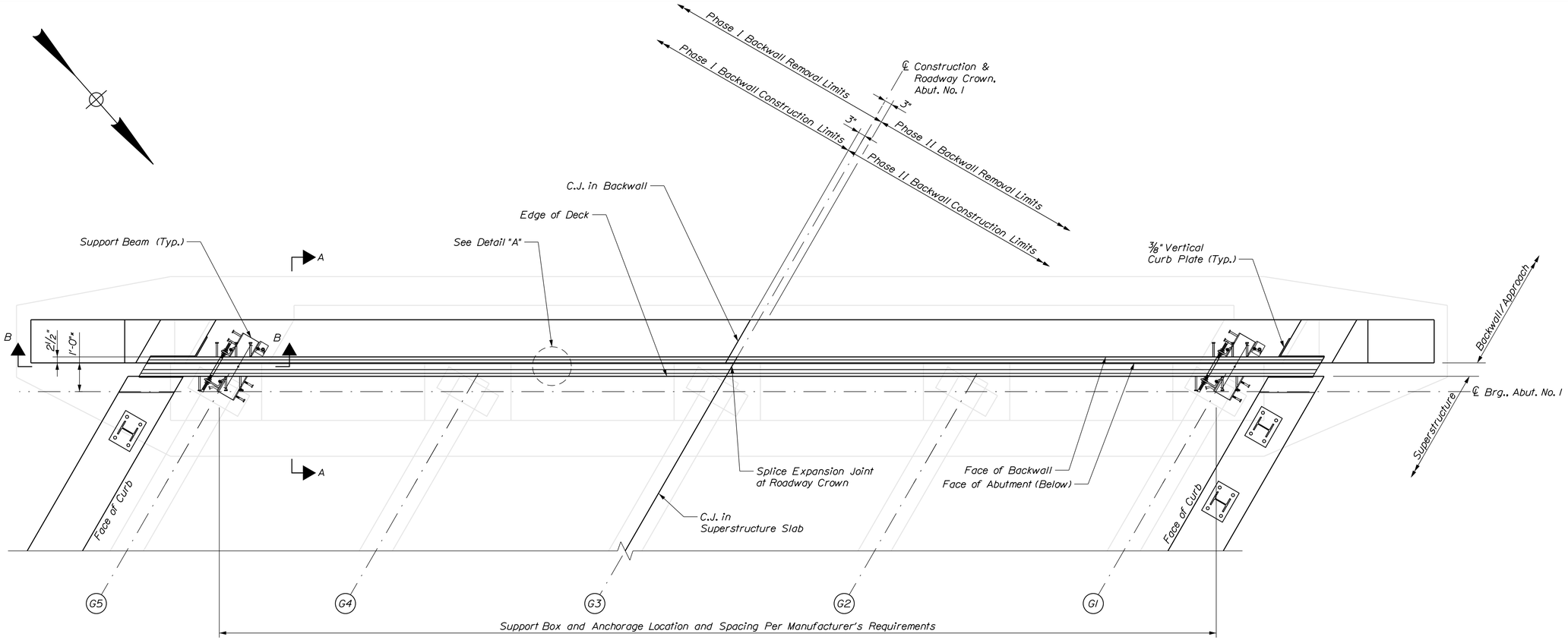
ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
KNOX COUNTY
WARREN

SUPERSTRUCTURE DETAILS

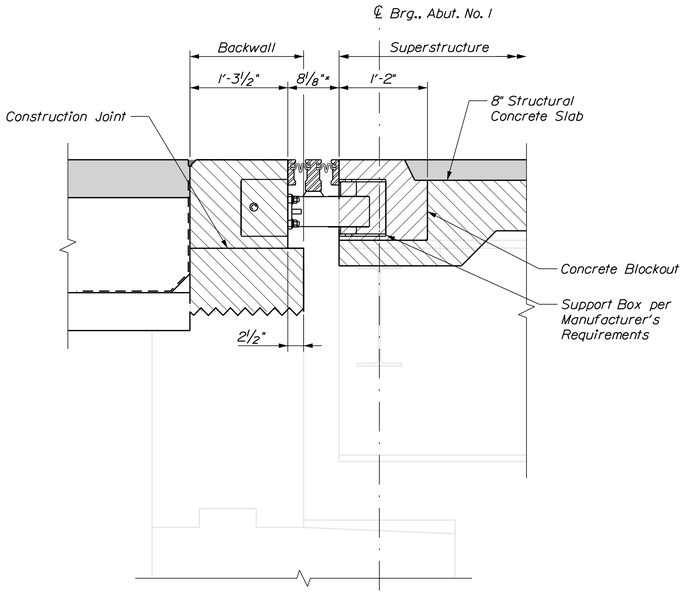
SHEET NUMBER

20

OF 24

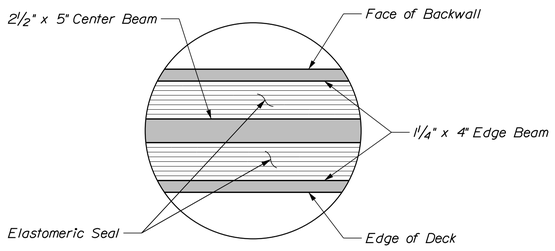


EXPANSION DEVICE - MODULAR JOINT - PLAN



* See Tempurature Adjustment Table on Modular Joint Details Sheet.

SECTION A-A



DETAIL "A"

Tempurature Adjustment Table	
Tempurature	"J"
20° F	8.70 IN
35° F	8.36 IN
50° F	8.01 IN
65° F	7.66 IN
80° F	7.32 IN
95° F	6.97 IN

NOTES:

1. "J" Dimensions are perpendicular to the face of backwall.

2. The minimum "J" width for seal installation = 7.66 IN. This corresponds to an installation temperature of approximately 65 degrees F.

3. The values in the above table are for setting the expansion device assembly immediately prior to pouring the concrete blockouts.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON		
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

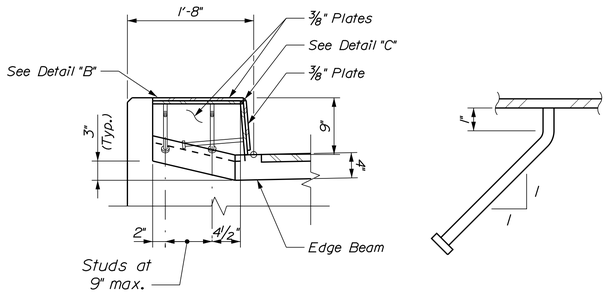
MODULAR JOINT DETAILS

SHEET NUMBER

21

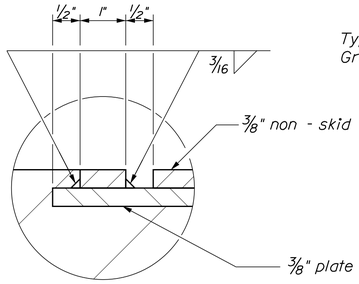
OF 24

Username: common Date:8/23/2023
Division: BRIDGE
Filename: ...\021_ModularJointDet_01.dgn

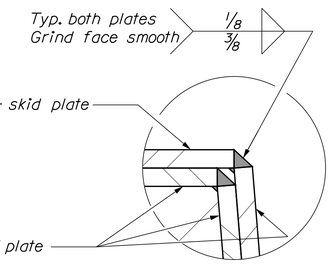


SECTION B-B

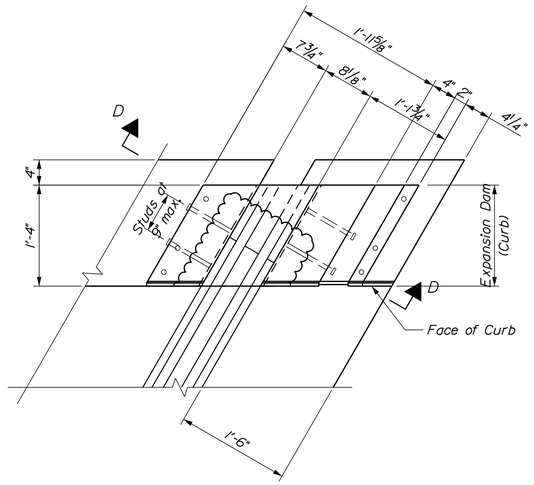
BENT STUD DETAIL



DETAIL 'B'



DETAIL 'C'



EXPANSION DAM - PLAN

EXPANSION DEVICE NOTES

1. Each "Expansion Device - Modular Joint" consists of one backwall element and one superstructure element with expansion dams and elastomeric seals as required.

2. The Expansion Device shall be fabricated to be installed normal to grade.

3. Anchor studs shall be installed using automatically timed stud welding equipment.

4. The Expansion Device shall be installed with a joint opening of "J" at 45° F. The joint opening shall be adjusted for temperature in the field at the time of installation using the following formula:

0.00008 x "D" x "Δ T" = Adjustment (in inches)

"D" is the distance in feet between the backwall and the nearest fixed bearings (for joints at abutments) or between the fixed bearings at either side of the expansion joint (for joints at piers). "Δ T" is the difference between the temperature of the structure and 45° F.

A structure temperature above 45° F will result in a smaller joint opening.

5. Welding to reinforcement steel will be allowed in the top of the abutment backwall above the blockout joint.

6. After the Expansion Device is in final position, weld the bar and angle of the adjustment devices together with a 1/4-inch fillet weld.

7. The slab and backwall concrete shall be in place before the Expansion Device is fixed in position. No allowance for movement due to dead load deflection is necessary.

8. The concrete in the blockout may be placed with the curb concrete. An approved epoxy bonding agent shall be applied to all vertical surfaces of the blockout before making the final concrete placement.

9. Modular joint is shown for illustrative purposes only. Actual details and dimensions of expansion device may vary significantly depending on joint supplier. It is the responsibility of the Contractor to adjust dimensions as required to accommodate the actual joint supplied.

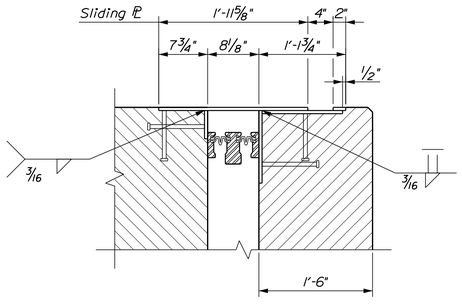
10. Actual blockout dimensions (depth and width) required by the expansion device manufacturer may vary from those shown on the Plans. Changes to the blockout dimensions and support system shall be coordinated by and the responsibility of the Contractor. Payment for changes to the blockout dimensions or support system will be considered incidental to related Contract items.

11. Modular joint shall be supplied by one of the following manufacturers:

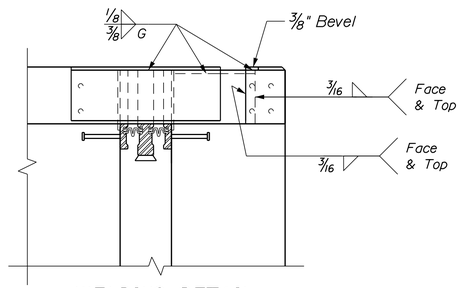
The D.S. Brown Company
North Baltimore, OH

Watson-Bowman Acme Corporation
Amherst, NY

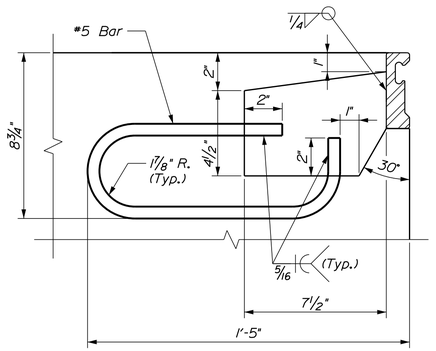
Mageba USA, LLC
Pottstown, PA



SECTION D-D



WELDING DETAIL



ANCHORAGE DETAIL

Shown for illustrative purposes.
Provide anchorage detail to meet joint manufacturer's requirements.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON		
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2	ALED2		
DESIGN3-DETAILED3	ALED3		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY

MODULAR JOINT DETAILS

SHEET NUMBER

22

OF 24

Filename: ...\022_ModularJointDet_02.dgn Division: BRIDGE Username: common Date:8/23/2023

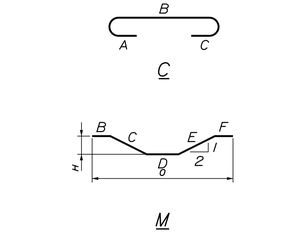
STRAIGHT BARS

MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION
Abutment No. 1				*Abutment No. 2*			
A500	4	2'-0"	Mechanical Splice	B500	2	2'-0"	Mechanical Splice
A501	4	2'-0"	Mechanical Splice	B501	2	2'-0"	Mechanical Splice
A502	4	20'-3"		B502	4	20'-3"	
A503	1	24'-4"		B503	6	1'-5"	
A504	1	24'-9"		B504	4	1'-10"	
A505	1	23'-8"		B505	4	2'-2"	
A506	1	23'-4"		B506	6	2'-8"	
A507	4	3'-4"		B507	2	3'-0"	
A508	6	3'-0"					
A509	6	2'-8"					
A510	4	2'-4"					
A511	2	2'-0"					
Superstructure							
S501	156	30'-0"	Bott Longitudinal & Curb, Set "A"				
S502	312	60'-0"	Bott Longitudinal & Curb, Set "A"				
S503	2240	17'-8"	Transverse				
S504	32	16'-9"	Transverse, Corner				
S505	32	13'-3"	Transverse, Corner				
S506	32	9'-9"	Transverse, Corner				
S507	32	6'-4"	Transverse, Corner				
S508	32	2'-10"	Transverse, Corner				
S509	1160	2'-6"	Mechanical Splice				
S510	1160	2'-6"	Mechanical Splice				
S511	24	20'-3"	Transverse, Skewed				
S601	180	30'-0"	Top Longitudinal, Set "B"				
S602	144	60'-0"	Top Longitudinal, Set "B"				

BENT BARS

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
Abutment No. 1														
A551	9	2'-2"	S		6"	1'-2"	6"							
A552	4	4'-11"	S		1'-8"	1'-7"	1'-8"							
A553	1	3'-8"	M		3"	3'-5"					1'-8"			
A554	1	4'-1"	M		8"	3'-5"					1'-8"			
A555	1	3'-0"	M		8"	2'-4"					0'-9"			
A556	1	2'-7"	M		3"	2'-4"					0'-9"			
A557	4	4'-2"	L	1'-0"	3'-2"									
A558	54	4'-4"	L	3'-3"	1'-1"									
A559	54	2'-9"	L	1'-6"	1'-3"									
A560	54	2'-7"	L	1'-6"	1'-1"									
Abutment No. 2														
B551	108	2'-4"	L	1'-0"	1'-4"									
B552	4	4'-2"	L	1'-0"	3'-2"									
B553	1	3'-8"	M		3"	3'-5"					1'-8"			
B554	1	4'-1"	M		8"	3'-5"					1'-8"			
B555	1	3'-1"	M		8"	2'-5"					1'-0"			
B556	1	2'-8"	M		3"	2'-5"					1'-0"			
B557	9	2'-2"	S		6"	1'-2"	6"							
Superstructure														
S551	818	5'-7"	SC	10"	1'-4"	1'-3"	1'-4"			10"		1'-4"		Curb Stirrups
S552	1162	9'-6"	C	7"	6'-6"									Overhang
S553	36	8'-8"	SJ	2'-0"	7"	1'-5"	10"	4'-0"						End of Deck
S554	36	10'-1"	SJ	2'-0"	7"	2'-10"	10"	4'-0"						Drains
S555	16	6'-0"	L	3'-0"	3'-0"									

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

Plain Reinforcing Steel: ASTM A 615, Grade 60

GENERAL NOTES

1. The first digit(s) following the letter(s) of the mark indicate the size of the bar:

   Mark "A502" = bar size #5
   Mark "P805" = bar size #8
   Mark "S650" = bar size #6
   Mark "P1404" = bar size #14

2. All reinforcement bars shall be Plain (Black) Reinforcing Steel.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615400

WIN 26154.00

BRIDGE PLANS

5654

PROJ. MANAGER	D.EATON		
DESIGN-DETAILED	E.BROWNELL	D.BURGESS	8-16-2023
CHECKED-REVIEWED	B.WELCH	J.BURGESS	8-16-2023
DESIGN2-DETAILED2	-------	-------	-------
DESIGN3-DETAILED3	-------	-------	-------
REVISIONS 1	-------	-------	-------
REVISIONS 2	-------	-------	-------
REVISIONS 3	-------	-------	-------
REVISIONS 4	-------	-------	-------
FIELD CHANGES	-------	-------	-------

SIGNATURE

P.E. NUMBER

DATE

ST. GEORGE RIVER BRIDGE
ST. GEORGE RIVER
KNOX COUNTY
WARREN

REINFORCING STEEL SCHEDULE

SHEET NUMBER

23

OF 24

PLAN LEGEND

Town, County, State		New R/W Along Existing R/W			Existing	Proposed	
Approx. Property Lines P.L.		Building	Clearing Limit Line	Sanitary Sewer			Traveled Way
Existing Right of Way		Trees Conifer	Deciduous	Telephone Line			Ditch
Limits of Wrought Portion L.O.W.P.		Tree Line	Bush Line	Electric Line			Catch Basin
Control Of Access C.O.A.		Water Edge		Water Line			Manhole
New Right of Way		Ledge	Rock/Boulder	Underdrain Line			Sewer Manhole
New Easement		Fence CHAIN LINK	BARB WIRE STOCKADE	Gas Line			Utility Pole
New Temporary Rights		Sign	Well WELL Mailbox	Guardrail			Fire Hydrant
New R/W Within Existing R/W				Culvert			Curbing

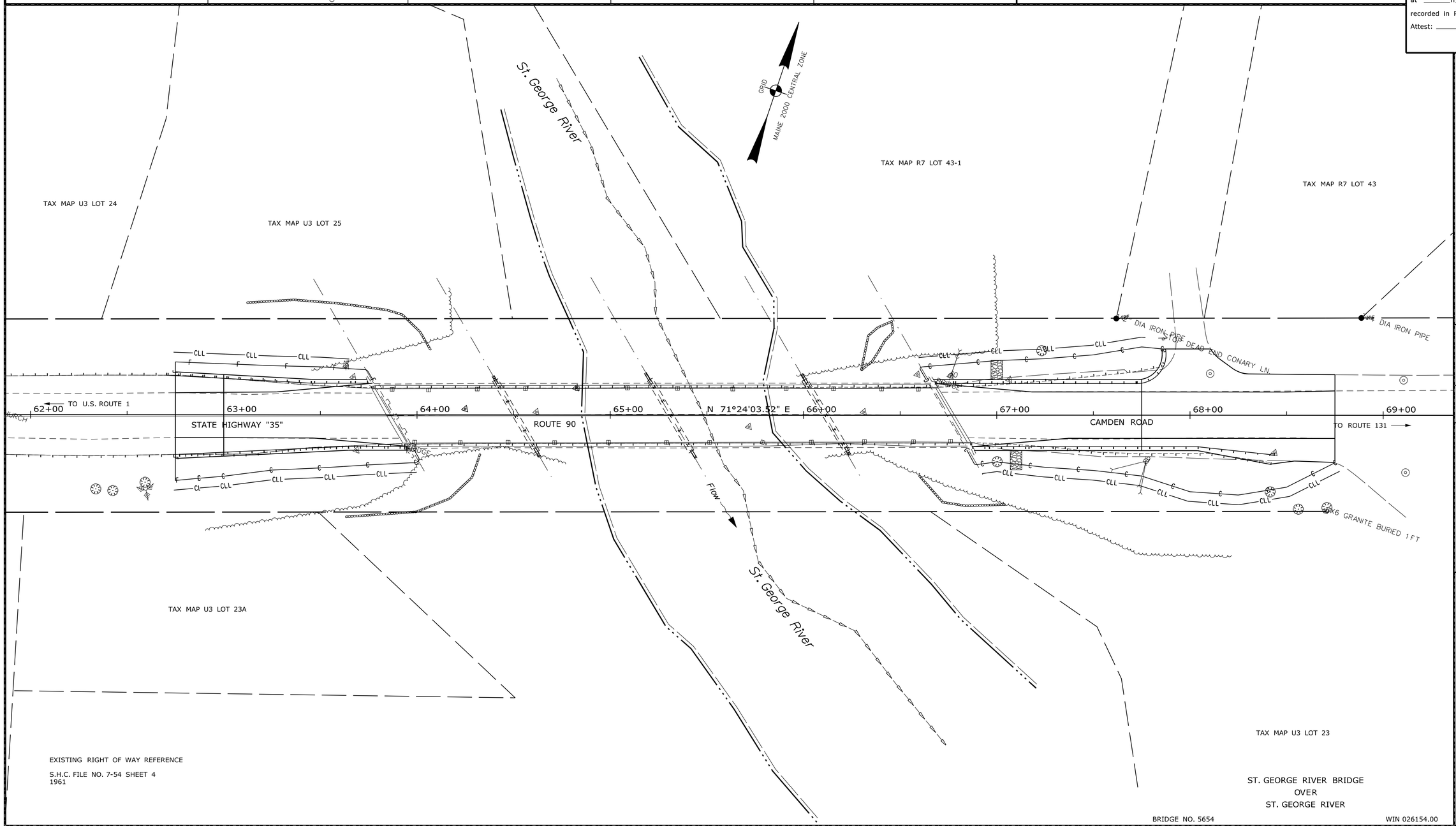
Cut Line	Fill Line	
Stonewall	Retaining Wall	
Baseline 10+00 11+00 12+00		
Monument	Traverse Point	
Iron Rod Found IRF	Pipe Found IPF	
Replacement Pin Set		

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

25 0 25 50 75 100
Scale of Feet

STATE OF MAINE
REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at _____h _____m _____M and
recorded in Plan Bk _____, Pg. _____
Attest: _____
REGISTER



EXISTING RIGHT OF WAY REFERENCE

S.H.C. FILE NO. 7-54 SHEET 4
1961

ST. GEORGE RIVER BRIDGE
OVER
ST. GEORGE RIVER

BRIDGE NO. 5654 WIN 026154.00

PRELIMINARY PLAN

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	JDF	JDF
FINAL RIGHT OF WAY		
AREAS		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
WARREN
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

BRUCE A. VAN NOTE
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "35"
ROUTE 90 / CAMDEN ROAD
WARREN KNOX COUNTY
FEDERAL AID PROJECT NO. 26154.00

AUGUST 2023	RIGHT-OF-WAY MAP	EXISTING RIGHT OF WAY PURPOSES ONLY
SCALE 1" = 25'	SHEET 1 OF 1	

SHEET NUMBER
24
OF 24

Date:$date$
Username: $user$
Division: $wkgroup$
Filename: $file$