

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

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



TRAFFIC DATA

Current (2023) AADT	9450
Future (2043) AADT	10400
DHV - % of AADT	10
Design Hour Volume	1040
Heavy Trucks (% of AADT)	7
Heavy Trucks (% of DHV)	3
Directional Distribution (% of DHV)	62
18 kip Equivalent P 2.0	308
18 kip Equivalent P 2.5	293
Design Speed (mph)	40

CASCO-NAPLES
CUMBERLAND COUNTY
CROOKED RIVER BRIDGE
OVER
CROOKED RIVER
US ROUTE 302
FEDERAL PROJECT NO. 02622800
PROJECT LENGTH 0.038 mi.
BRIDGE NO. 2200

LIST OF DRAWINGS

Title Sheet	1
Estimated Quantities & General Construction Notes	2
General Plan & Profile	3
Typical Sections	4
Abutment Reconstruction Elevations	5
Typical Bridge Sections	6
Joint Details	7
Deck End Reinforcing Plan	8
Deck Reinforcing Details	9
Staged Construction	10
Reinforcing Steel Schedule	11

MATERIALS

Concrete:	
Curbs & Transition Barriers, All Other	Class "A"
Reinforcing Steel:	
Plain	ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete	
Class "A"	f 'c = 4,000 psi
Reinforcing Steel	
Plain	F y = 60,000 psi

UTILITIES

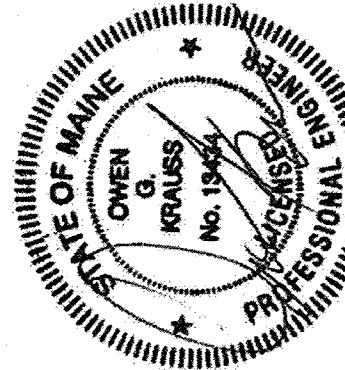
Central Maine Power	Charter (Spectrum)
Consolidated Communications	

MAINTENANCE OF TRAFFIC

Maintain one lane of alternating one - way traffic using temporary signals and staged construction.

PROJECT LOCATION	Route 302/Crooked River Bridge (#2200) over Crooked River. Located 0.16 of a Mile Northwest of Hillside Avenue. Lat./Long. 43°57'30.7" N 70°33'58.1" W
PROGRAM AREA	Bridge Program
OUTLINE OF WORK	Bridge Joint & Wearing Surface Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		3-31-25
CHIEF ENGINEER: <i>[Signature]</i>		3-31-25



SIGNATURE	DATE
<i>[Signature]</i>	March 27, 2025
P.E. NUMBER	
13434	

PROJECT INFORMATION	BRIDGE
PROGRAM	BRIDGE
PROJECT MANAGER	GERALD LIBBY
DESIGNER	HOYLE, TANNER & ASSOC., INC.
CONSULTANT	HOYLE, TANNER & ASSOC., INC.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WIN 26228.00

02622800

CASCO-NAPLES
CROOKED RIVER BRIDGE
TITLE SHEET

SHEET NUMBER

1

OF 11

Date: 3/27/2025

Username:

Division: BRIDGE

Filename: \\00\BRIDGE\MSTA\001_Title.dgn

[illegible]

GENERAL CONSTRUCTION NOTES

1. 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.

2. 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.

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

4. 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.

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

6. 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.

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

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

*All exposed surfaces of concrete curbs,
Fascias down to the drip notch,
All exposed surfaces of Concrete Transition Barriers.*

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

10. 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.

11. 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.

12. 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.

13. Contractor shall repair areas of concrete deck as directed by the Resident. Locations of deck repairs are undetermined for this Contract. The Resident will identify and mark areas for deck repair after removing the wearing surface. Payment for the deck repair work shall be under the appropriate 518 pay item.

14. If the depth of deteriorated concrete extends to the reinforcing steel, remove concrete to a minimum of 1" below the reinforcing steel.

15. Excavation below existing pavement required for abutment backwall work shall be paid for under Item No. 203.20 - Common Excavation.

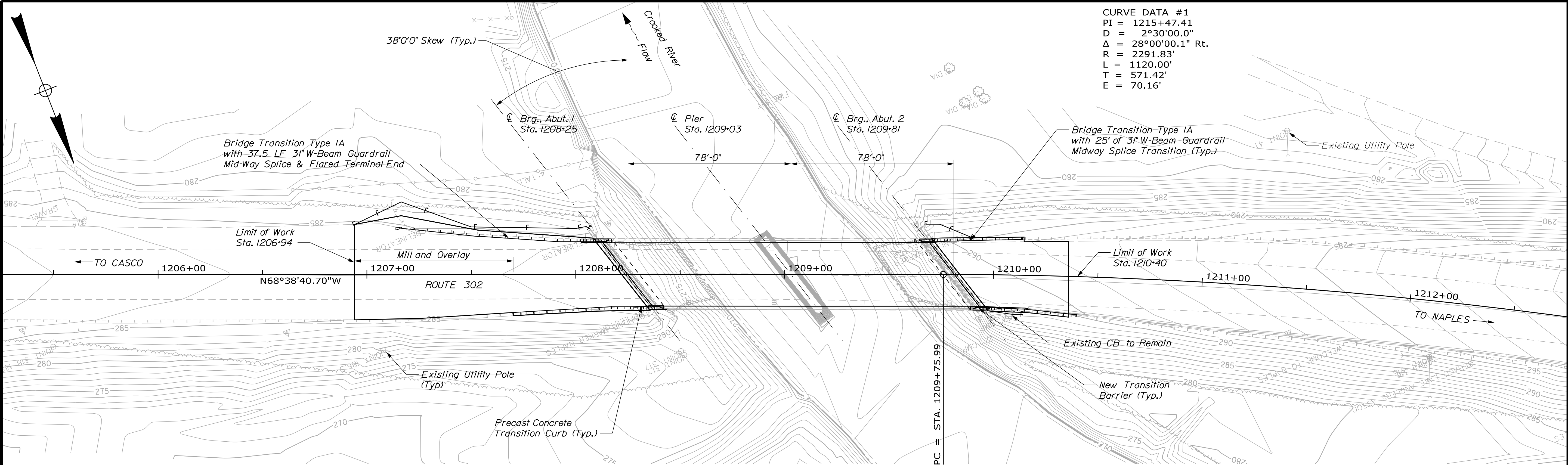
2 OF 11	SHEET NUMBER	CROOKED RIVER BRIDGE CROOKED RIVER CASCO-NAPLES CUMBERLAND COUNTY	PROJ. MANAGER	G. LIBBY	BY	DATE
			DESIGN-DETAILED	RPM	SMA	3/2025
			CHECKED-REVIEWED	DOT	OOK	3/2025
			DESIGN-DETAILED02			
			DESIGN-DETAILED03			
ESTIMATED QUANTITIES & GENERAL CONSTRUCTION NOTES		REVISONS 1				P.E. NUMBER
		REVISONS 2				
		REVISONS 3				
		REVISONS 4				DATE
		FIELD CHANGES				
STATE OF MAINE DEPARTMENT OF TRANSPORTATION 02622800 WIN 26228.00 BRIDGE NO. 2200 BRIDGE PLANS						

Date: 3/27/2025

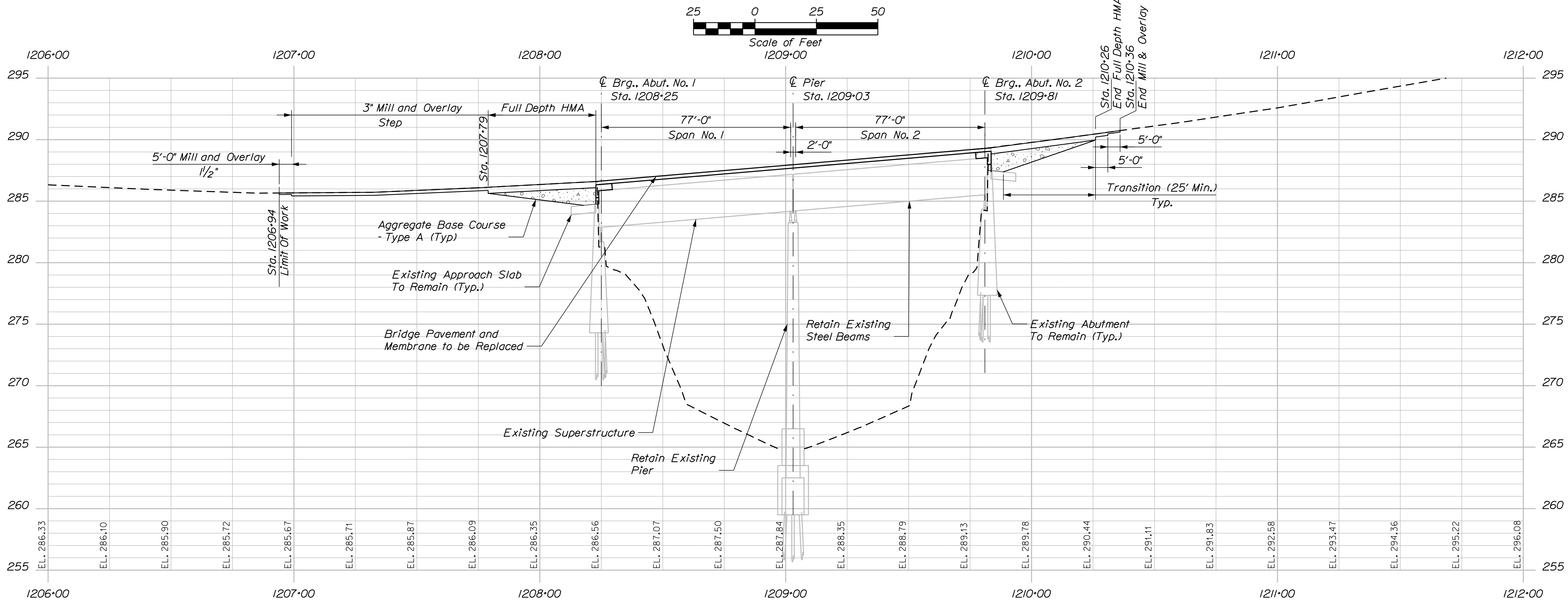
Username:

Division: BRIDGE

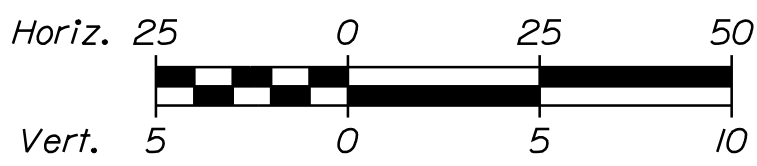
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PLAN



PROFILE



Scale of Feet

CURVE DATA #1
PI = 1215+47.41
D = 2°30'00.0"
Δ = 28°00'00.1" Rt.
R = 2291.83'
L = 1120.00'
T = 571.42'
E = 70.16'

OF 11		SHEET NUMBER		CROOKED RIVER BRIDGE		CROOKED RIVER		CASCO-NAPLES CUMBERLAND COUNTY		GENERAL PLAN & PROFILE		STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		02622800		WIN		BRIDGE NO. 2200		BRIDGE PLANS	
3																							

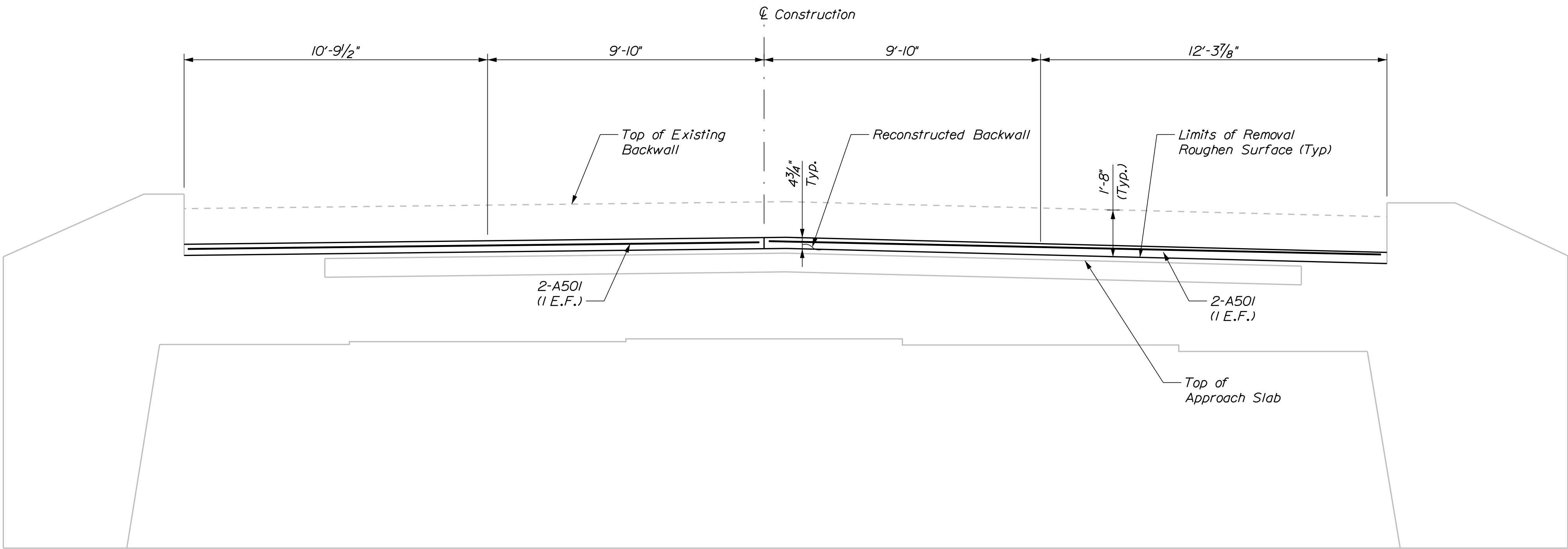


WEST APPROACH

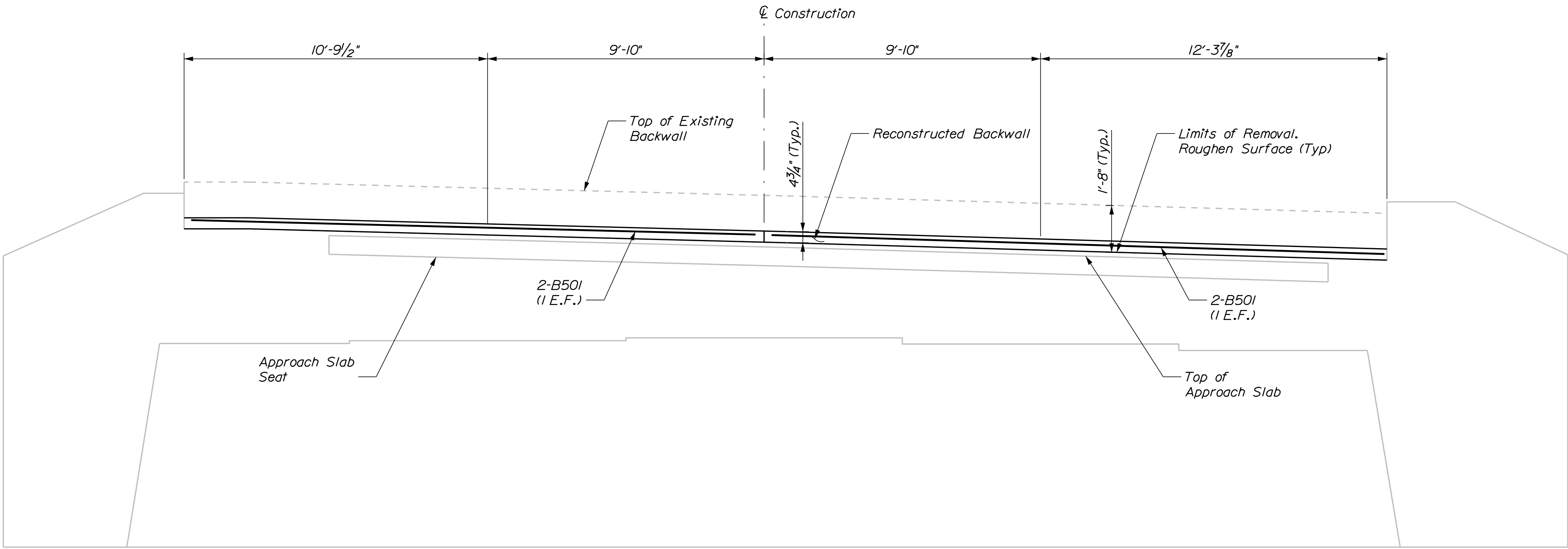


EAST APPROACH



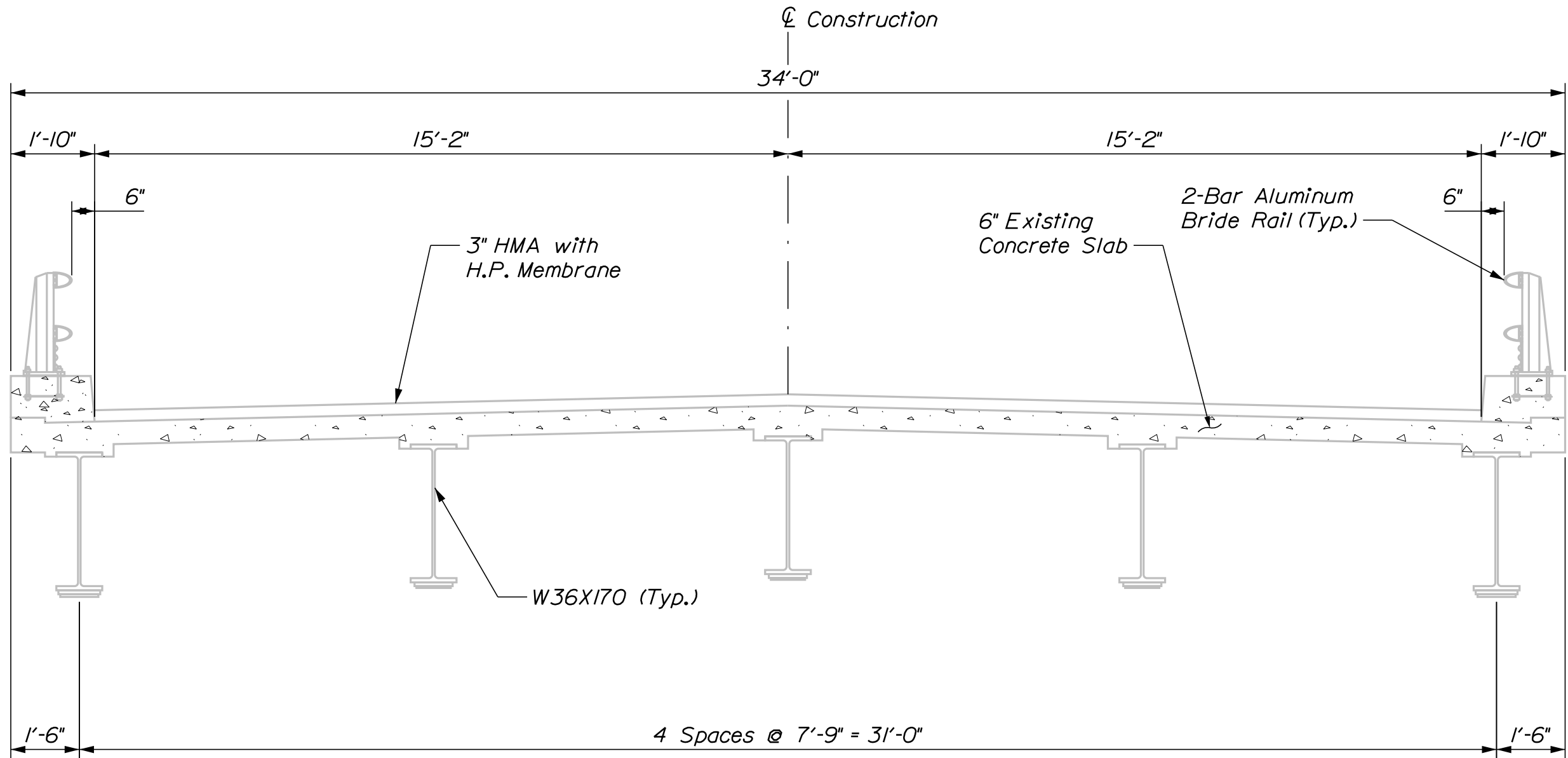


ABUTMENT NO. 1 ELEVATION



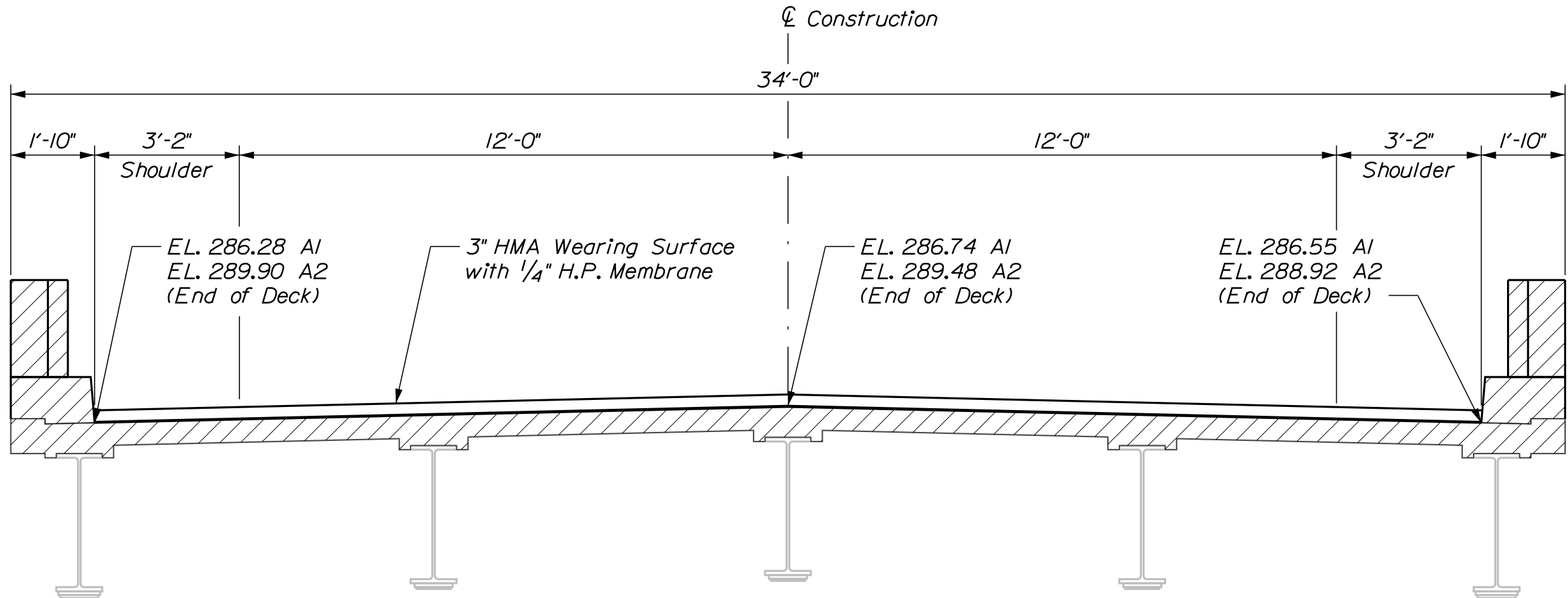
ABUTMENT NO. 2 ELEVATION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 02622800	SHEET NUMBER			
	5			
	OF 11			
CROOKED RIVER BRIDGE CROOKED RIVER CASCO-NAPLES CUMBERLAND COUNTY ABUTMENT ELEVATIONS	PROJ. MANAGER	G. LIBBY	BY	DATE
	DESIGN-DETAILED	RPM	SMA	3/2025
	CHECKED-REVIEWED	DDT	OCK	3/2025
	DESIGN-DETAILED			
SHEET NUMBER	REVISIONS 1			SIGNATURE
	REVISIONS 2			P.E. NUMBER
	REVISIONS 3			DATE
	REVISIONS 4			
BRIDGE PLANS	BRIDGE NO. 2200		WIN	
	26228.00		26228.00	



EXISTING BRIDGE SECTION

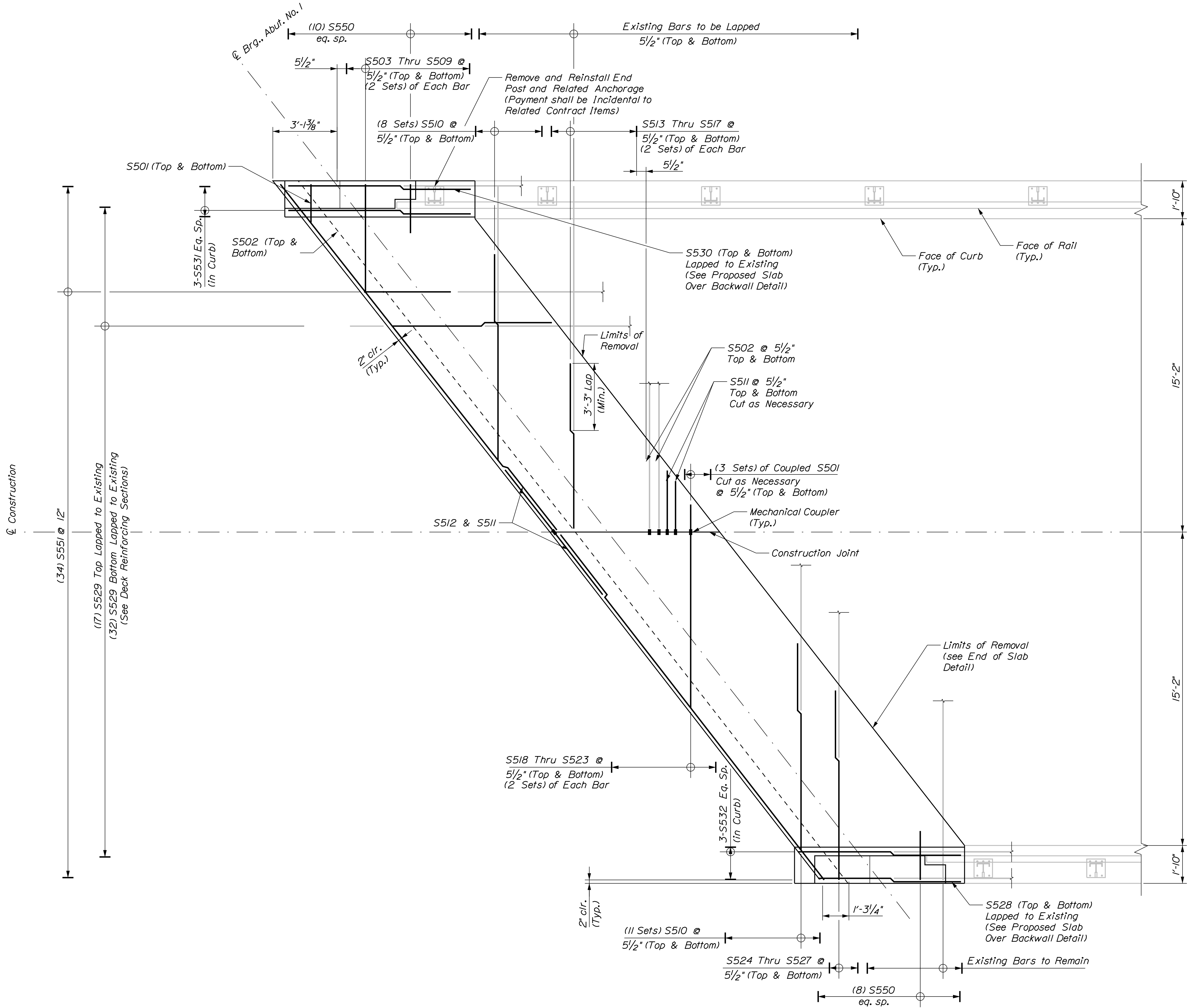
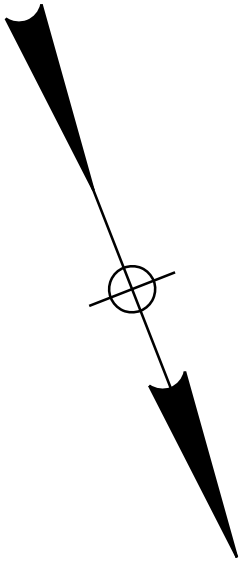
See Existing Plans for more Information



PROPOSED BRIDGE SECTION

At Each end of Deck

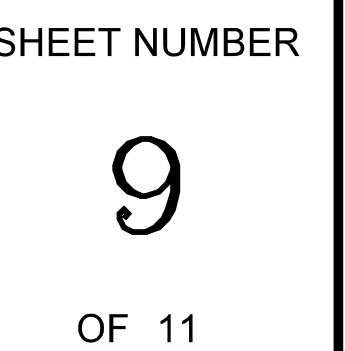
6 OF 11	SHEET NUMBER	CROOKED RIVER BRIDGE CROOKED RIVER CASCO-NAPLES CUMBERLAND COUNTY TYPICAL BRIDGE SECTIONS	PROJ. MANAGER		G. LIBBY	BY	DATE
			DESIGN-DETAILED	RPM	SMA	3/2025	
			CHECKED-REVIEWED	DDT	OCK	3/2025	
			DESIGN2-DETAILED2				
			DESIGN3-DETAILED3				
			REVISIONS 1				
			REVISIONS 2				
			REVISIONS 3				
			REVISIONS 4				
			FIELD CHANGES				
			STATE OF MAINE DEPARTMENT OF TRANSPORTATION				
			02622800				
			WIN 26228.00				
			BRIDGE NO. 2200				
			BRIDGE PLANS				

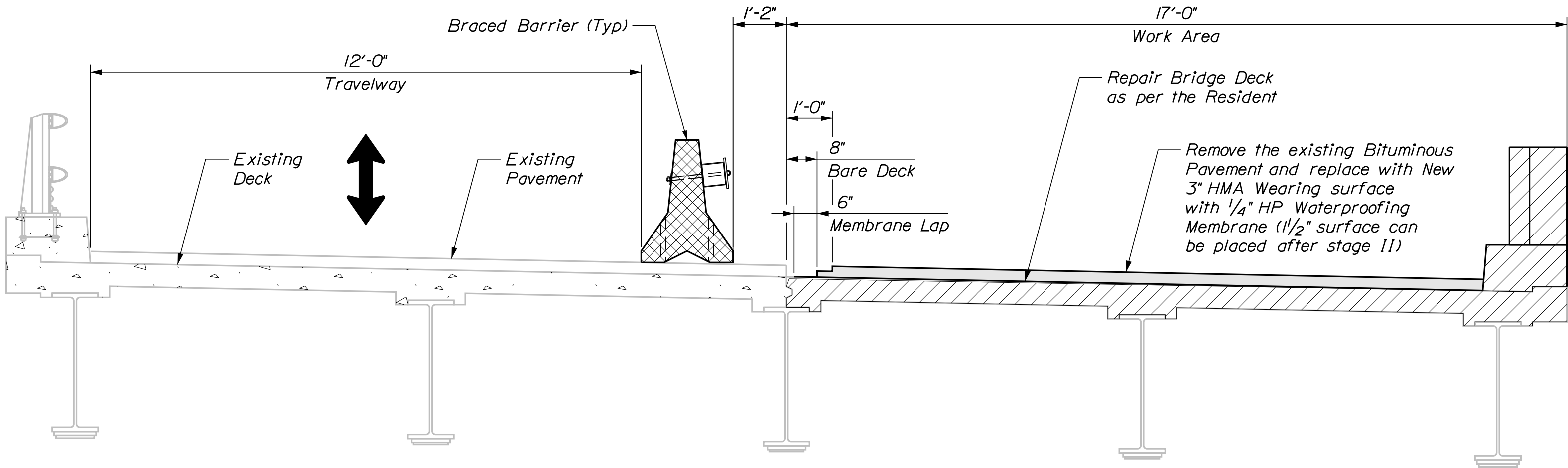


DECK PLAN REINFORCING

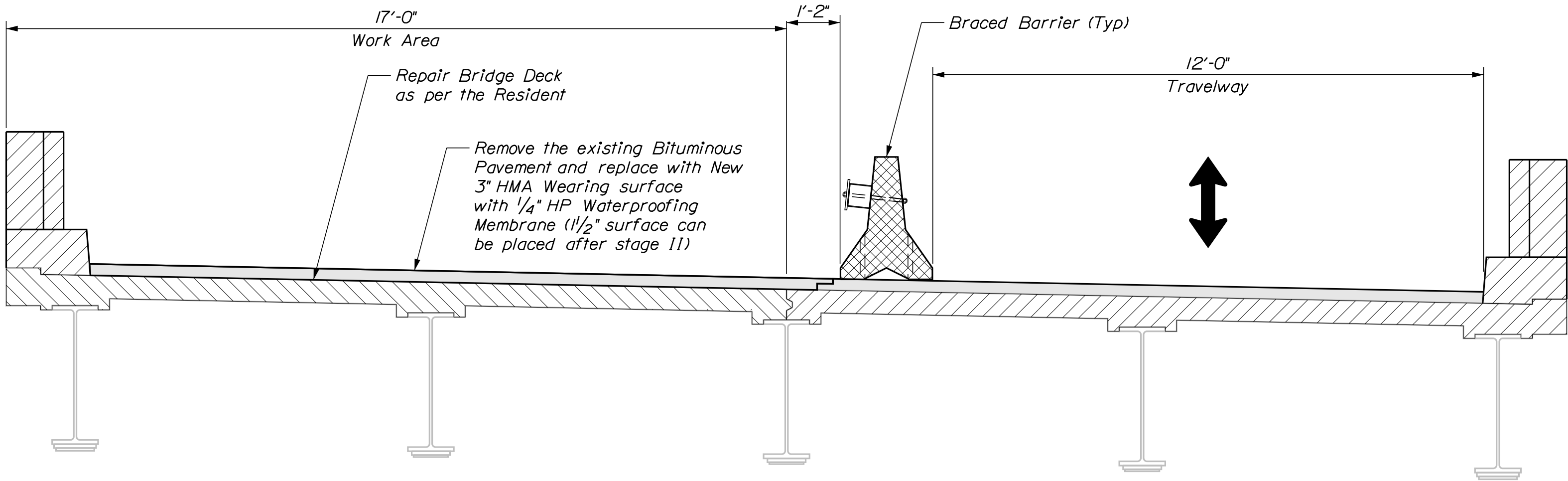
Abut. No. 1 shown, Abut. No. 2 similar.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
CROOKED RIVER BRIDGE		02622800	
CROOKED RIVER		WIN	
CASCO-NAPLES CUMBERLAND COUNTY		26228.00	
DECK PLAN		BRIDGE NO. 2200	
SHEET NUMBER		BRIDGE PLANS	
8			
OF 11			





STAGE I



STAGE II

CROOKED RIVER BRIDGE CROOKED RIVER CASCO-NAPLES CUMBERLAND COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	02622800			
	WIN 26228.00 BRIDGE NO. 2200 BRIDGE PLANS			
STAGED CONSTRUCTION	PROJ. MANAGER	G. LIBBY	BY	DATE
	DESIGN-DETAILED	RPM	SMA	3/2025
	CHECKED-REVIEWED	DDT	OCK	3/2025
	DESIGN-DETAILED			SIGNATURE
	REVISIONS 1			P.E. NUMBER
REVISIONS 2			DATE	
REVISIONS 3				
REVISIONS 4				
	FIELD CHANGES			

