

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

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

SACO - BIDDEFORD
YORK COUNTY
NEW COUNTY ROAD (ROUTE 5)
OVER
SACO RIVER
NEW COUNTY ROAD
FEDERAL PROJECT NO. 2689400
PROJECT LENGTH 0.08 mi.
BRIDGE NO.2603

LIST OF DRAWINGS

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General Plans & Details	3
Staged Construction Details	4-5
Header Repair Details	6

UTILITIES

Central Maine Power
Consolidated Communications
Charter Communications (Spectrum)

TRAFFIC DATA

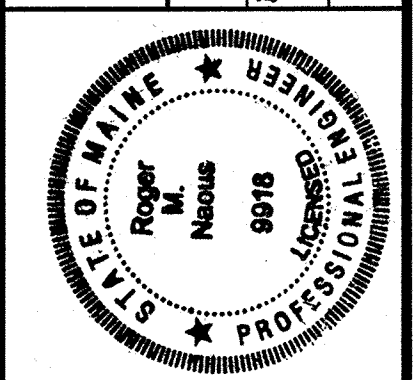
Current (2023) AADT	5720
Future (2035) AADT	6060
DHV - % of AADT	12
Design Hour Volume	755
Heavy Trucks (% of AADT)	7
Heavy Trucks (% of DHV)	7
Directional Distribution (% of DHV)	67
18 kip Equivalent P 2.0	189
18 kip Equivalent P 2.5	180
Design Speed (mph)	45

MAINTENANCE OF TRAFFIC

Maintain one 12'-0" wide lane of alternating one-way traffic using traffic signals.

PROJECT LOCATION	0.25 Miles north of the intersection of Boom and Loudon Roads on Route 5 (New County Road) on the Saco/Biddeford town line Lat./Long. 043°032'24.3" N 70°30'53.6" W
PROGRAM AREA	Bridge Program
OUTLINE OF WORK	Wearing surface replacement and modification of both bridge end joints

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER: <i>[Signature]</i>	6-18-2024
	CHIEF ENGINEER: <i>[Signature]</i>	6-17-2024



SIGNATURE	P.E. NUMBER	DATE
<i>[Signature]</i>	9918	JUN 17 2024

PROJECT INFORMATION	BRIDGE PROGRAM
PROJECT MANAGER	G. LIBBY, JR.
DESIGNER	R. MAOUS
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SACO - BIDDEFORD NEW COUNTY ROAD	TITLE SHEET
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SHEET NUMBER
1
OF 6

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.127	REMOVING OF EXISTING BITUMINOUS PAVEMENT (1,153 SY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	255	SY
403.2081	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT SURFACE	116	T
403.2131	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT BASE	110	T
409.15	BITUMINOUS TACK COAT - APPLIED	82	G
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (1156 SY)	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (565 SY)	1	LS
518.50	REPAIR OF UPWARD FACING SURFACES - TO REINFSTEEL < 8 IN	260	SF
518.51	REPAIR OF UPWARD FACING SURFACES - BELOW REINFSTEEL < 8 IN	260	SF
520.2403	BRIDGE JOINT MODIFICATION TYPE 3	2	EA
526.301	TEMPORARY CONCRETE BARRIER, TYPE 1 (540 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	2	UN
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1,206	LF
627.77	REMOVING PAVEMENT MARKINGS	500	SF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	500	LF
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADE	6	EA
652.33	DRUM	10	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	300	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	360	HR
652.41	PORTABLE CHANGABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

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

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

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

3. 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.

4. 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.

5. The Contractor may either remove and reset existing joint armor or stabilize joint armor in place until new header concrete is placed. Any work associated with reusing the existing joint armor shall be considered incidental to Item 520.2403, Joint Modification, Type 3.

DECK REPAIR NOTES

1. 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.

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

JOINT MODIFICATION NOTES

1. The Contractor shall modify existing joint in accordance with the applicable Special Provisions and Details.

2. When a new joint is being installed, or an existing joint is being substantially modified and field conditions permit, the approach side of the joint shall be set 1/8" to 1/4" higher than the departure side of the joint. Under no circumstances shall the departing side of the joint be higher than the approach side of the joint.

3. The Contractor shall clean all bridge joints and deck drains as directed by the Resident. Cleaning joints and deck drains shall be considered incidental to the Contract.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2689400
WIN
26894.00
BRIDGE NO. 2603
BRIDGE PLANS

NEW COUNTY ROAD
SACO RIVER
SACO - BIDDEFORD
YORK COUNTY

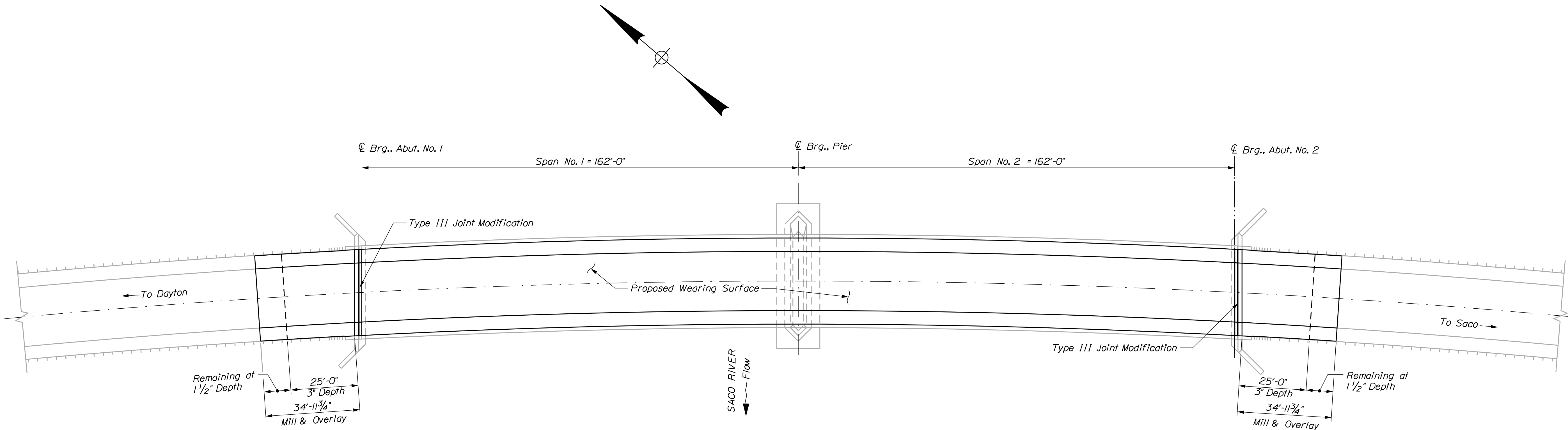
ESTIMATED QUANTITIES & GENERAL NOTES

SHEET NUMBER
2
OF 6

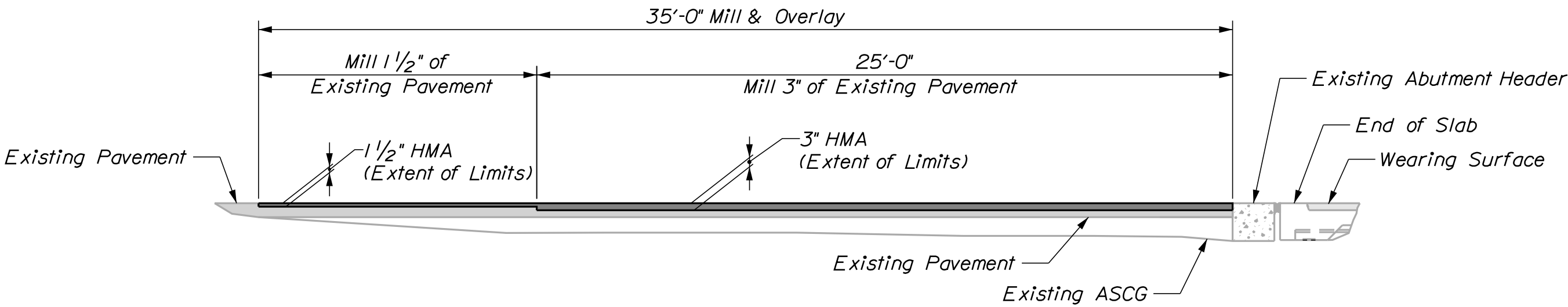
PROJ. MANAGER
G. LIBBY, JR.
DESIGN-DETAILED
CHECKED-REVIEWED
DESIGNS-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

DATE
June 2024
June 2024
SIGNATURE
P.E. NUMBER
DATE

BY
G. LIBBY, JR.
G. LIBBY, JR.
GUSTAFSON
M. POLLIN

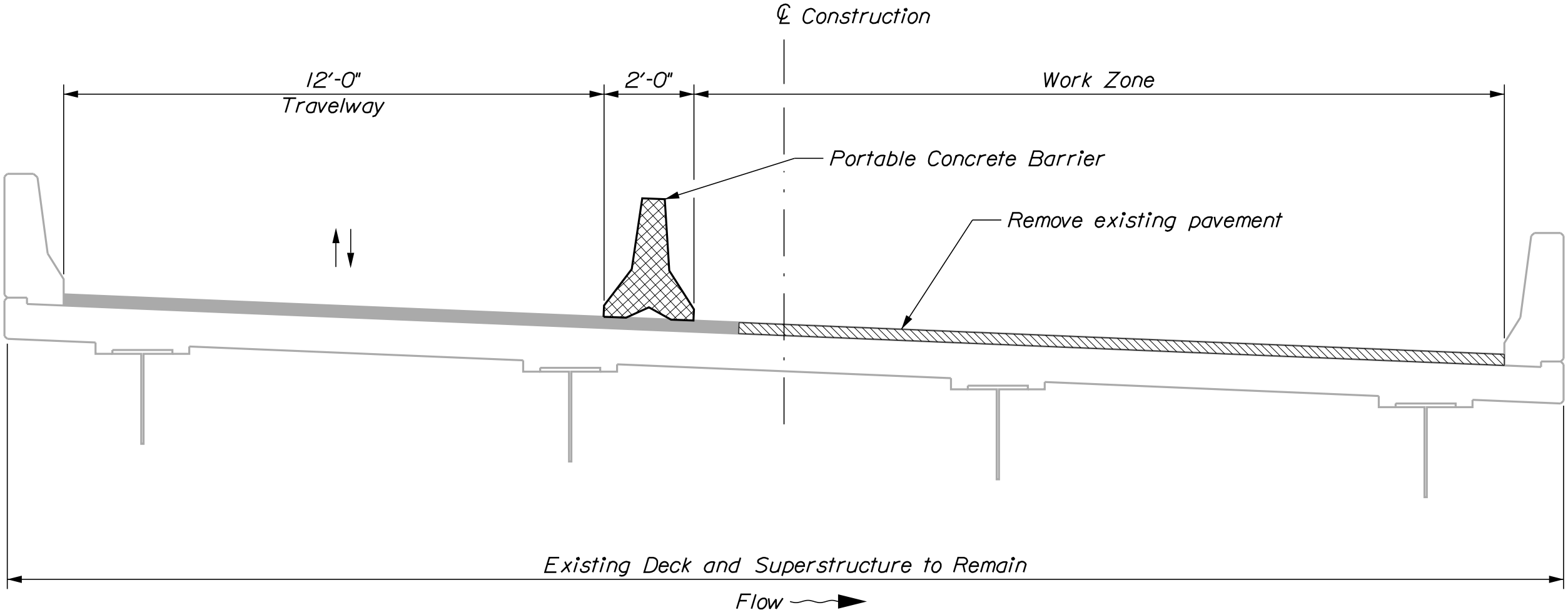
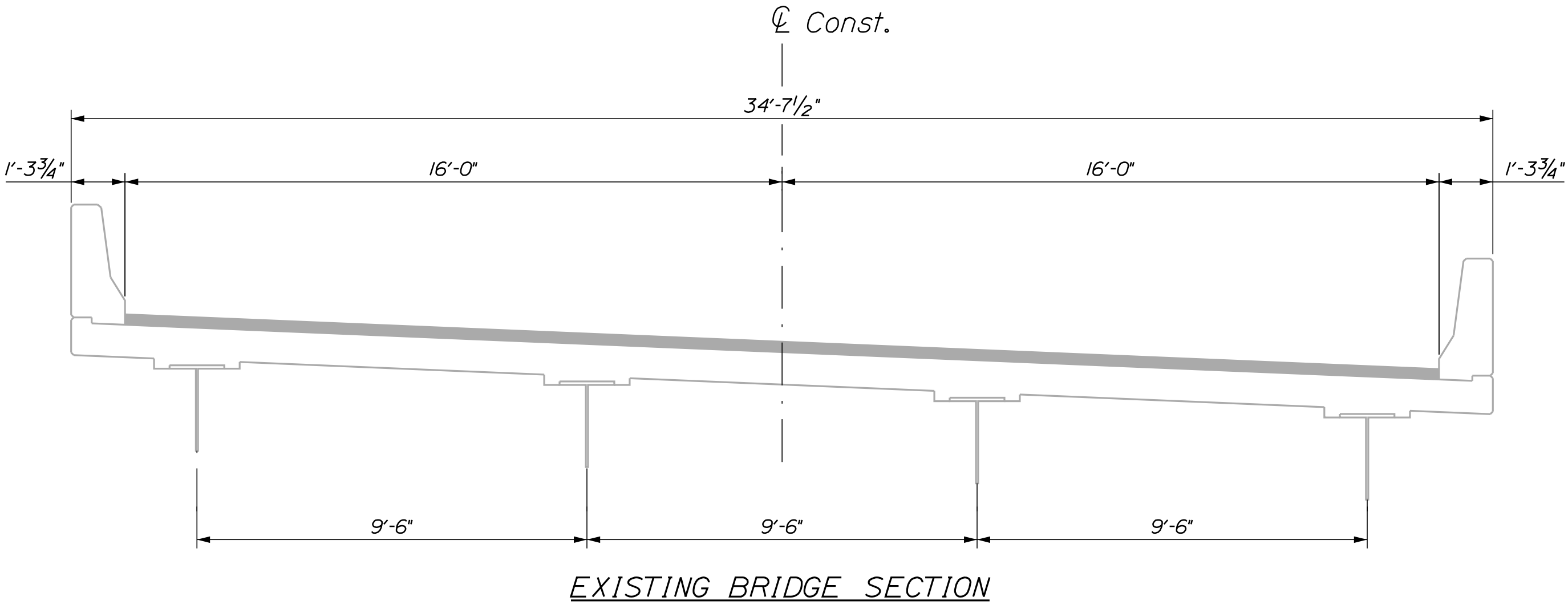


WEARING SURFACE and APPROACH WORK PLAN



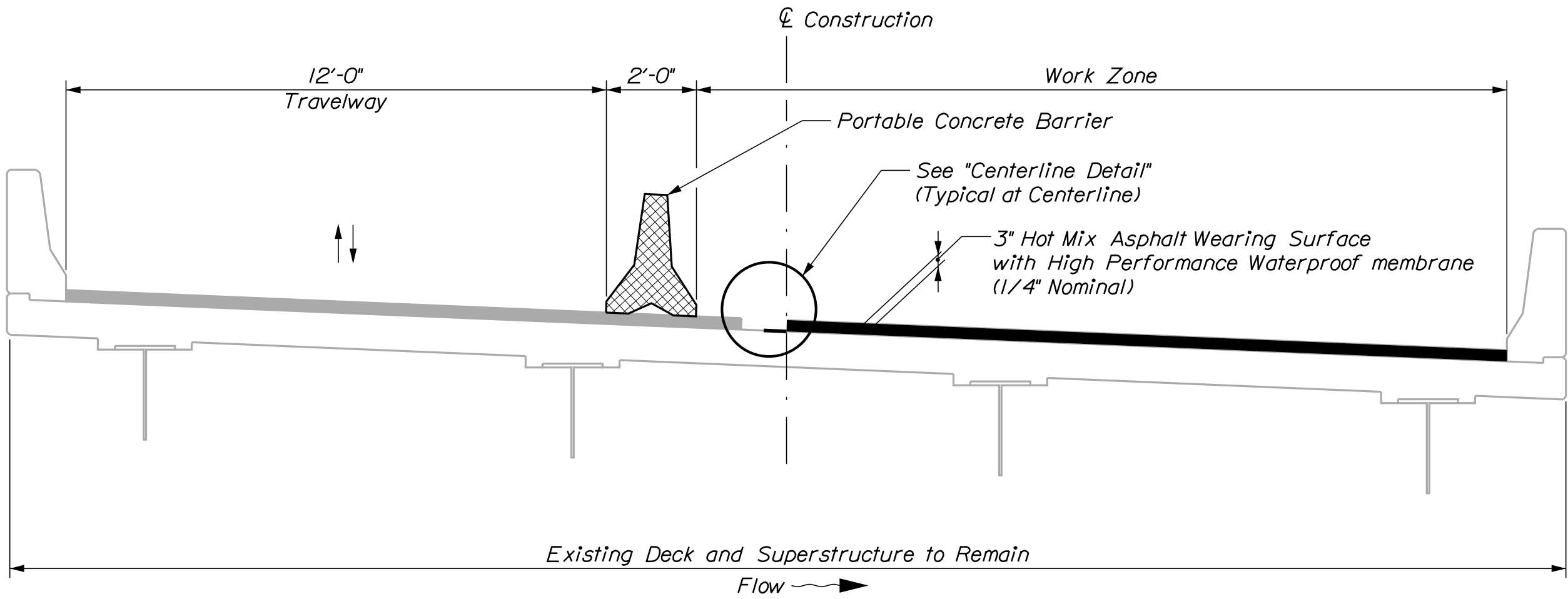
DETAIL OF PAVEMENT AT APPROACHES
(North Shown; South - Opposite Hand)

NEW COUNTY ROAD SACO RIVER SACO - BIDDEFORD	YORK COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
		2689400	
		BRIDGE NO.2603	WIN 26894.00
GENERAL PLANS AND DETAILS		SIGNATURE	DATE
		P.E. NUMBER	DATE
		REVISIONS 1	
		REVISIONS 2	
SHEET NUMBER		BRIDGE PLANS	
3			
OF 6			



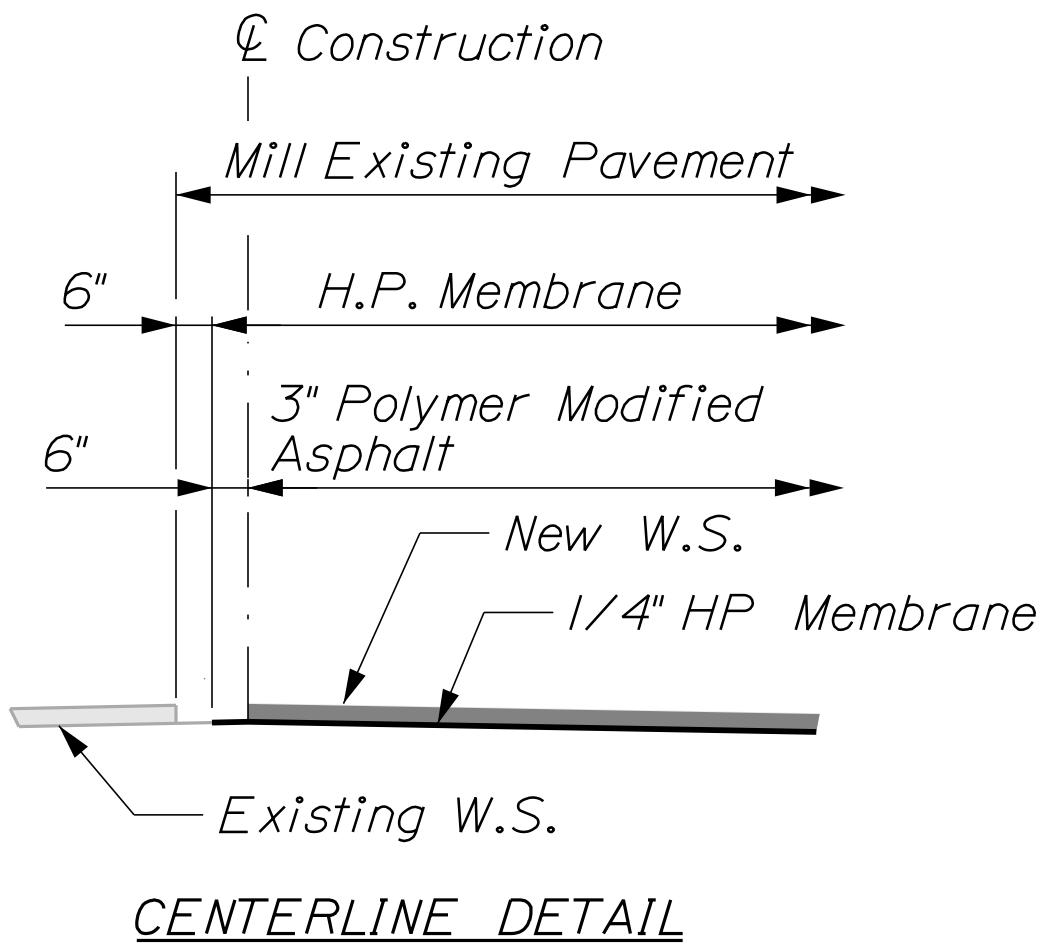
STAGE 1

Set Barriers to Establish Work Zone
Shift Traffic To One Lane of Alternating One-Way Traffic on Upstream Side
Remove existing wearing surface in the work zone

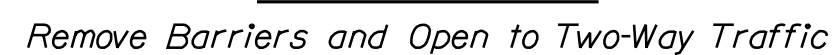
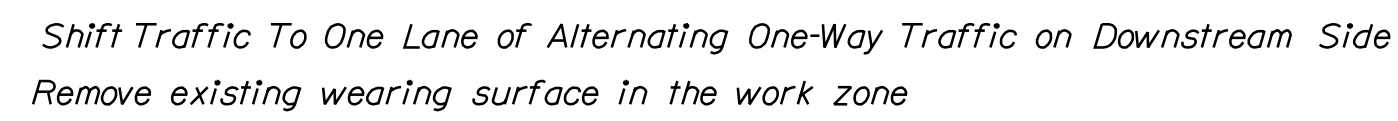


STAGE 2

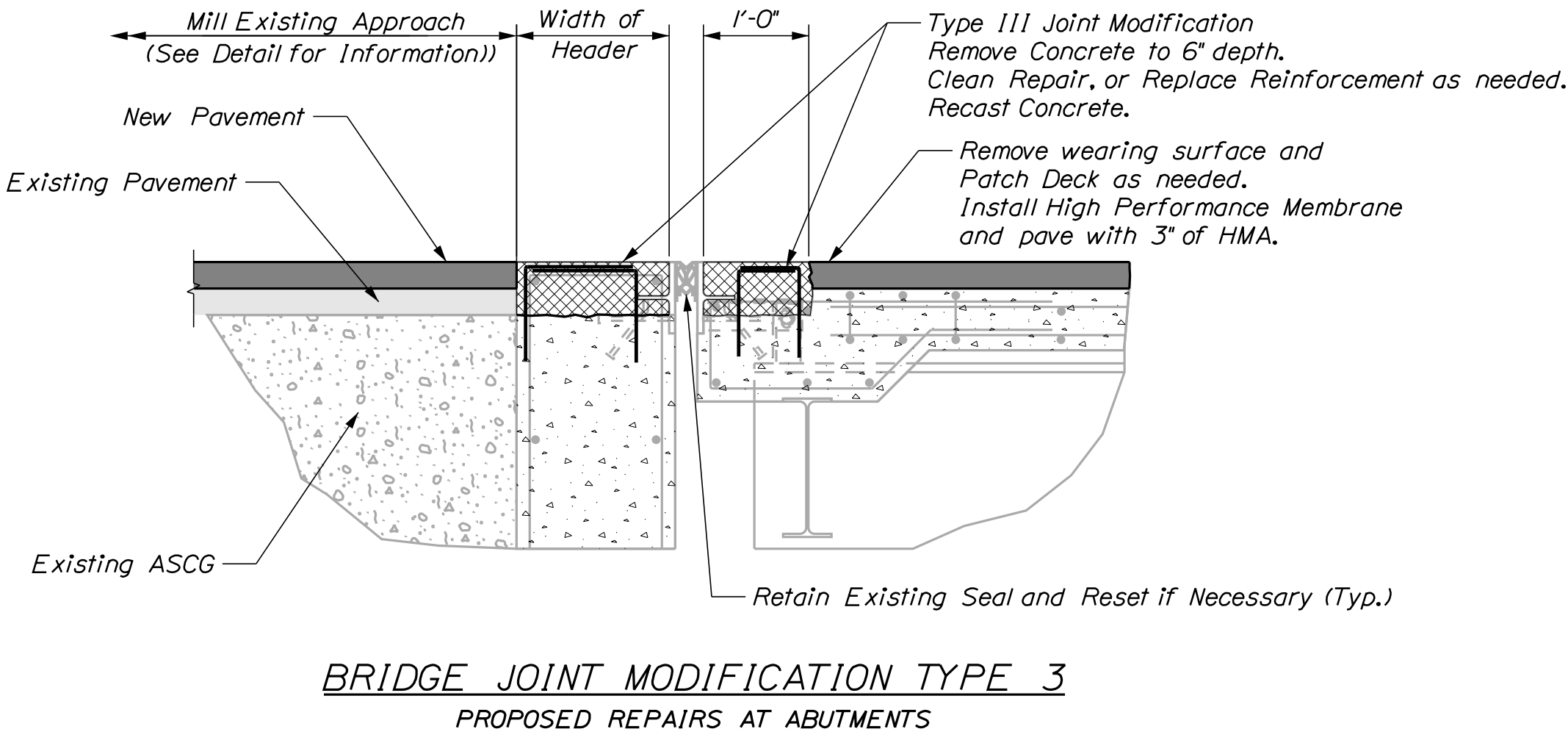
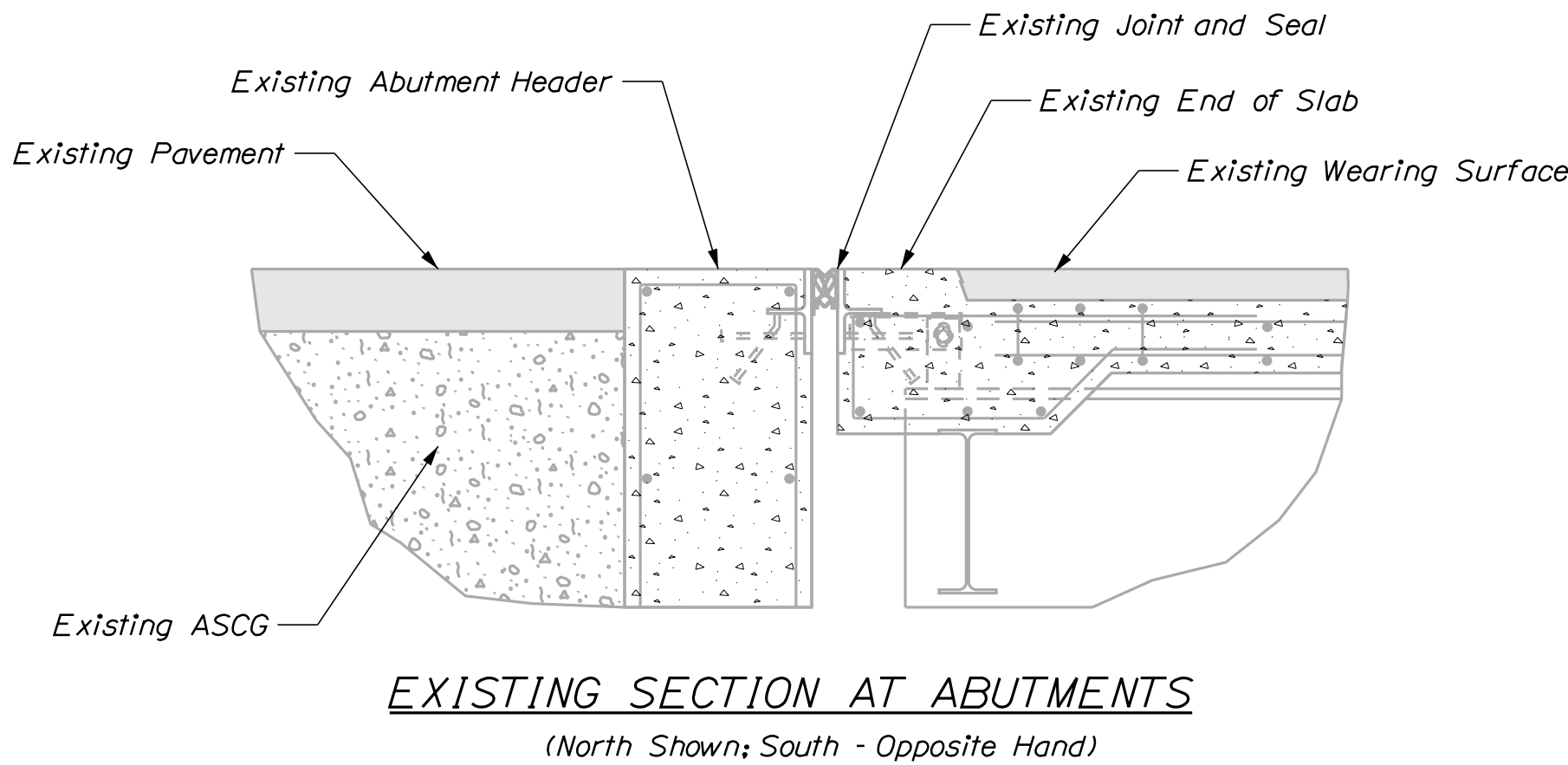
Place Waterproof Membrane and 3" of Pavement on Downstream Side



NEW COUNTY ROAD SACO RIVER SACO - BIDDEFORD YORK COUNTY		PROJ. MANAGER		G. LIBBY, JR.	BY	DATE
		DESIGN-DETAILED		R. MAJUS	G. LIBBY, JR.	June 2024
STAGED CONSTRUCTION DETAILS (SHEET 1 OF 2)		CHECKED-REVIEWED		G. CUSTAFSON	M. POULIN	June 2024
		DESIGN2-DETAILED2				
		DESIGN3-DETAILED3				
		REVISIONS 1				
		REVISIONS 2				
		REVISIONS 3				
		REVISIONS 4				
		FIELD CHANGES				
DATE						
P.E. NUMBER						
SIGNATURE						
STATE OF MAINE DEPARTMENT OF TRANSPORTATION						
2689400						
WIN						
26894.00						
BRIDGE NO.2603						
BRIDGE PLANS						



SHEET NUMBER 5 OF 6	NEW COUNTY ROAD SACO RIVER SACO - BIDDEFORD YORK COUNTY				PROJ. MANAGER	G. LIBBY, JR.	BY	DATE
	DESIGN-DETAILED				R. MAOUS	G. LIBBY, JR.	June 2024	
	CHECKED-REVIEWED				G. GUSTAFSON	M. POLIN	June 2024	
	DESIGN2-DETAILED02							SIGNATURE
	DESIGN3-DETAILED03							
	REVISIONS 1							P.E. NUMBER
	REVISIONS 2							
	REVISIONS 3							
	REVISIONS 4							DATE
	FIELD CHANGES							
STAGED CONSTRUCTION DETAILS (SHEET 2 OF 2)								
STATE OF MAINE DEPARTMENT OF TRANSPORTATION					2689400			
BRIDGE NO.2603					WIN 26894.00			
BRIDGE NO.2603					BRIDGE PLANS			



NEW COUNTY ROAD					STATE OF MAINE	
SACO RIVER					DEPARTMENT OF TRANSPORTATION	
SACO - BIDDEFORD						
YORK COUNTY					2689400	
HEADER REPAIR DETAILS					P.E. NUMBER	
					REVISIONS 1	
					REVISIONS 2	
					REVISIONS 3	
					REVISIONS 4	
FIELD CHANGES					DATE	
SHEET NUMBER					BRIDGE NO.2603	
6					WIN	
OF 6					26894.00	
					BRIDGE PLANS	