STATE OF MAINE DEPARTMENT OF TRANSPORTATION

BENTON AND FAIRFIELD KENNEBEC COUNTY INTERSTATE 95 SOUTHBOUND **BRIDGE PRESERVATION PROJECT** FEDERAL PROJECT NO. 02718410 PROJECT LENGTH: 0.75 MILES BRIDGE NUMBERS 1455, 1456, and 5999

MATERIALS

Concrete:

BASIC DESIGN STRESSES

Concrete: f 'c = 3,000 psi PPC

TRAFFIC DATA

Current (2024) AADT	
Future (2036) AADT	11670
DHV - % of AADT	
Design Hour Volume	
Heavy Trucks (% of AADT)	
Heavy Trucks (% of DHV)	
Directional Distribution (% of DHV)	
18 kip Equivalent P 2.0	
18 kip Equivalent P 2.5	
Design Speed (mph)	

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Division:



LIST OF DRAWINGS

Title Sheet Bridge Location Map... General Construction N Typical Details Bridge Plans

MAINTENANCE OF TRAFFIC

Staged construction with lane closures for Bridge 1455, 1456, and 5999.

PROJECT LOCATION	I-95 Southbound Between Fairfield
PROGRAM AREA	Bridge Program
<u>OUTLINE OF WORK</u>	Joint Modifications

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LOCATION MAP



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SHEET NUMBER	INTERSTATE95SOUTHBOUNDPROJ. MANAGER AURELE GORNEAUBYDATEBRIDGEJOINTREHABILITATIONSDESIGN-DETALEDELWMJC7/19/2024FAIRFIELD-BENTONKENNEBECCOUNTYDESIGN2-DETALEDSInterviewedBJR7/19/2024FAIRFIELD-BENTONKENNEBECCOUNTYDESIGN3-DETALEDSInterviewedBJRMJC7/19/2024FAIRFIELD-BENTONKENNEBECCOUNTYDESIGN3-DETALEDSInterviewedBJRMJC7/19/2024	BRIDGE LOCATION MAP Revisions 3 Field changes AS
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	ESTIMATED I-95 BRIDGE QUAN	NTITIES				
ITEM NO.	DESCRIPTION	QUANTITY	QUANTITY	QUANTITY	TOTAL	UNIT
		Bridge No.1455	Bridge No.1456	Bridge No. 5999		
202.202	Removing Pavement Surface		960	260	1220	SY
202.205	Rumble Strips - Shoulder	600	1000	600	2200	LF
202.207	Rumble Strips, Fill	600	1000	600	2200	LF
403.2081	12.5 mm Polymer Modified Hot Mix Asphalt		106	29	135	TON
409.15	Bituminous Tack Coat, Applied		48	13	6/	GAL
508.14	High Performance Waterproofing Membrane(47 SY)		1			LS
518.51	Repair of Upward Facing Surfaces - below Reinforcing Steel < 8 inches	13	10	5	28	SF
518.52	Repair of Upward Facing Surfaces >=8 in.		1			СҮ
518.60	Repair of Vertical Surfaces <8 in.		15		15	SF
519.60	Expansion Device - Asphaltic Plug Joint		49	40	89	LF
520.2321	Asphaltic Crack Control Joint (49 LF)		1			LS
520.243	Bridge Joint Modification Type 3	2	2	/	5	ΕA
627.51	6" Temporary Pavement Tape, Yellow or White	700	1650	700	3050	LF
627.57	12" Removable Black Line Masking Tape	350	500		850	LF
627.744	6" White or Yellow Painted Pavement Marking Line		5000	800	5800	LF
627.77	Removing Existing Pavement Marking		1750	250	2000	SF
627.781	Temporary 6" Painted Pavement Marking Line, White or Yellow		8750	1250	10000	LF
629.05	Hand Labor, Straight Time	5	5	5	15	HR
63I . II2	Welding Machine (including operator)	10	10	10	30	HR
631.12	All Purpose Excavator (including operator)	5	5	5	15	HR
631.133	Skid Steer (including operator)	5	5	5	15	HR
631.172	Truck-Large (including operator)	5	5	5	15	HR
639.21	Field Office Type D	0.33	0.34	0.33		ΕA
652.312	Type III Barricades	2	2	2	6	EA
652.33	Drum	20	35	20	75	EA
652.34	Cone	15	20	15	50	ΕA
652.35	Construction Signs	400	500	400	1300	SF
652.361	Maintenance of Traffic Control Devices	0.33	0.34	0.33	1	LS
652.442	Smart Work Zone System, Type 2	0.33	0.34	0.33	1	ΕA
656.75	Temporary Soil Erosion and Water Pollution Control	0.33	0.34	0.33	1	LS
659.10	Mobilization	0.33	0.34	0.33	1	LS
910.50	Work Zone Safety	0.33	0.34	0.33	/	LS

Note: Estimated Quantities for each bridge are provided here for reference purposes only.

GENERAL CONSTRUCTION NOTES

I. 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.

2. All dimensions, angles, and stationing shown on existing plans are taken from as-built construction drawings from 1962 through 2023 and are not guaranteed to be correct. All information based on or relating to the existing bridges shall be verified in the field by the Contractor.

3. 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 the 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.

4. All reinforcing steel that is to be exposed and reused shall be cleaned by a method approved by the Resident. Payment shall be incidental to the related Contract Items.

5. Any damage to existing concrete, reinforcing steel, joint steel, or joint seals resulting from the work performed shall be repaired or replaced by a method approved by the Resident at no cost to the Department.

6. New seals shall be installed full length after all other joint work is complete.

8. All existing materials which are removed from the work area shall be removed from the site and properly disposed of by the Contractor. These existing materials include, but are not limited to, concrete, steel joint armor, reinforcing steel, silt, and other debris on or attached to the structure within the work areas. The cost of removal and disposal shall be incidental to the cost of the work items for which these removals are required.

9. All pavement ramps shall meet the geometric requirements of Standard Detail 202(01) Butt Joint Detail, and be constructed perpendicular to the flow of traffic and match across the full width of the roadway.

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	INTERSTATE 95 SOUTHBOUND	DESIGN-DETAILED ELW	MJC	7/19/2024	STALE OF MAINE	
	BRIDGE JOINT REHABILITATIONS	CHECKED-REVIEWED BJR	R.S. Blunt	7/19/2024	DEPARTMENT OF TRANSPOR	FATION
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MOVEMENT RATING:

Movement Ratings are rounded up to the nearest $^{\prime }/_{m heta }$ ". The Movement Rating at Abutment No. 1 is approximately 1 $\frac{5}{8}$ ".

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