



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Janet T. Mills
GOVERNOR

Bruce A. Van Note
COMMISSIONER

August 30, 2024
Subject: Bridge Replacement
State WIN: 025631.14
Location: Howland
Amendment No. 1

Dear Sir/Ms.:

In the contract bid book:

REMOVE SPECIAL PROVISION SECTION 108 – PAYMENT (Steel Cost Adjustment) on pages 53 through 54 of the bid book dated 7/29/2024.

In the Plan Set:

REMOVE Sheet Number 2 of 31, ESTIMATED QUANTITIES dated 8/12/2024 and **REPLACE** with the attached Sheet Number 2 of 31, ESTIMATED QUANTITIES dated 8/19/2024.

REMOVE Sheet Number 15 of 31, KEY PLAN & SHEAR CONNECTOR LAYOUT dated 8/12/2024 and **REPLACE** with the attached Sheet Number 15 of 31, KEY PLAN & SHEAR CONNECTOR LAYOUT dated 8/19/2024.

REMOVE Sheet Number 16 of 31, STRUCTURAL STEEL DETAILS dated 8/12/2024 and **REPLACE** with the attached Sheet Number 16 of 31, STRUCTURAL STEEL DETAILS dated 8/19/2024.

Consider these changes and information prior to submitting your bid on **September 18, 2024**.

Sincerely,

A handwritten signature in blue ink, reading 'George Macdougall'.

George M. A. Macdougall P.E.
Contracts & Specifications Engineer

ESTIMATED QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
202.10	REMOVE EXISTING SUPERSTRUCTURE PROPERTY OF CONTRACTOR (480 CY)	1	LS
202.12	REMOVE EXISTING STRUCTURAL CONCRETE	79	CY
202.13	REMOVE EXISTING RAILINGS (RETAINED BY DEPARTMENT)	840	LF
202.202	REMOVING PAVEMENT SURFACE	440	SY
203.20	COMMON EXCAVATION	160	CY
203.25	GRANULAR BORROW	85	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES, PLAN QUANTITY	110	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	140	CY
403.2081	HOT MIX ASPHALT - 12.5 MM (POLYMER MODIFIED)	180	T
403.211	HOT MIX ASPHALT - SHIM	6	T
403.2131	HOT MIX ASPHALT - 12.5 MM (BASE AND INTERMEDIATE COURSE, POLYMER MODIFIED)	220	T
409.15	BITUMINOUS TACK COAT, APPLIED	220	G
502.21	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	57	CY
502.26	STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLAB ON STEEL BRIDGES (350 CY)	1	LS
502.31	STRUCTURAL CONCRETE APPROACH SLAB (23 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (55 CY)	1	LS
502.77	FRP BRIDGE DRAIN, TYPE E	4	EA
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	9500	LB
503.13	REINFORCING STEEL, PLACING	9500	LB
503.17	MECHANICAL/WELDED SPLICE	1700	EA
503.19	LOW-CARBON CHROMIUM REINFORCEMENT, FABRICATED AND DELIVERED	970	LB
503.20	LOW-CARBON CHROMIUM REINFORCEMENT, PLACING	970	LB
504.70	STRUCTURAL STEEL FABRICATED AND DELIVERED (3470 LB)	1	LS
504.71	STRUCTURAL STEEL ERECTION (3470 LB)	1	LS
505.08	SHEAR CONNECTORS (6350 EA)	1	LS
506.1775	FIELD PAINTING, NEW AND EXISTING STEEL WITH ZINC RICH PAINT (80 SF)	1	LS
507.0821	STEEL BRIDGE RAILING, 3 BAR (870 LF)	1	LS
507.0822	STEEL APPROACH RAILING: 3-BAR	4	EA
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (1380 SY)	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (530 SY)	1	LS
518.60	REPAIR OF VERTICAL SURFACES < 8 INCHES	8	SF
521.23	EXPANSION DEVICE - FINGER JOINT	1	EA
523.52	BEARING INSTALLATION	10	EA
523.5551	POT OR DISC BEARINGS, FIXED	5	EA
523.5552	POT OR DISC BEARINGS, EXPANSION	5	EA
524.301	TEMPORARY STRUCTURAL SUPPORT (APPROACHES)	1	LS
524.301	TEMPORARY STRUCTURAL SUPPORT (BEARING REPLACEMENT)	1	LS
524.40	PROTECTIVE SHIELD	1	LS
526.301	PORTABLE CONCRETE BARRIER, TYPE I (450 LF)	1	LS
526.304	PORTABLE CONCRETE BARRIER, ANCHORED TYPE 1 (460 LF)	1	LS
526.305	TEMPORARY CONCRETE BARRIER, BRACED TYPE I (460 LF)	1	LS
527.33	TRUCK MOUNTED ATTENUATOR	2	EA
527.34	WORK ZONE CRASH CUSHIONS	2	UN
606.1301	31" W-BEAM GUARDRAIL, MID-WAY SPLICE-SINGLE FACED	370	LF
606.1305	31" W-BEAM GUARDRAIL, MID-WAY SPLCE FLARED TERMINAL	1	EA
606.1721	BRIDGE TRANSITION - TYPE 1	4	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	14	EA
607.183	CHAIN LINK SNOW FENCE 33 INCH (320 LF)	1	LS
610.08	PLAIN RIPRAP	5	CY
613.319	EROSION CONTROL BLANKET	140	SY
615.07	LOAM	8	CY
618.14	SEEDING METHOD NUMBER 2	2	UN
619.12	MULCH	2	UN
619.14	EROSION CONTROL MIX	5	CY
627.511	TEMPORARY PAVEMENT LINE TAPE, YELLOW OR WHITE	240	SF
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	2400	LF
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	210	SF
627.77	REMOVING EXISTING PAVEMENT MARKING	800	SF
629.05	HAND LABOR, STRAIGHT TIME	25	HR
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	5	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	5	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	25	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	25	HR

ESTIMATED QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
631.22	FRONT END LOADER (INCLUDING OPERATOR)	25	HR
639.19	FIELD OFFICE TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.30	FLASHING ARROW	2	EA
652.33	DRUM	100	EA
652.34	CONE	10	EA
652.35	CONSTRUCTION SIGNS	440	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGERS	320	HR
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION & WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT NO. 2563114

BRIDGE NO. 6068
WIN 25631.14
BRIDGE PLANS

ROUTE 155\I-95 BRIDGE
INTERSTATE 95
HOWLAND PENOBSCOT COUNTY

ESTIMATED QUANTITIES

SHEET NUMBER
2
OF 31

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

J. BRASK
S. LINDSLEY
D. WHITE
J. FITZ
Added Int. Digitals

BY
E. MORRISON
B. COLBURN
N. EDMAN

DATE
08-24
08-24
08-24
9/24

SIGNATURE

P.E. NUMBER

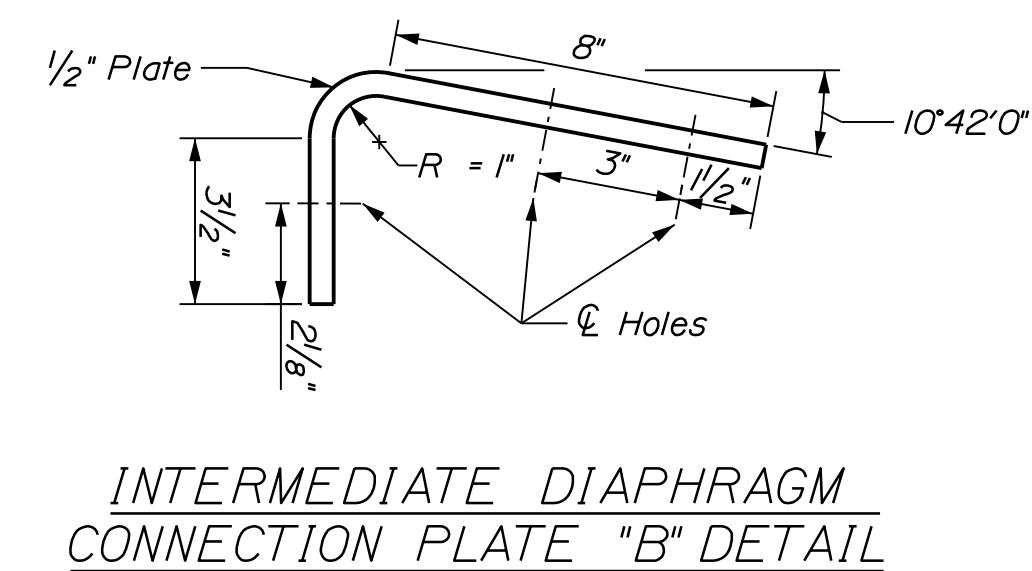
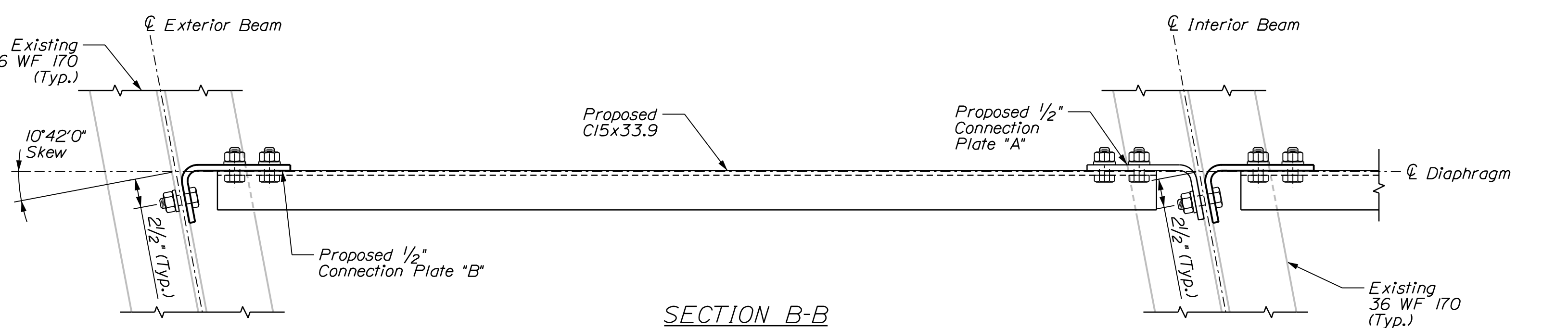
DATE



SHEAR CONNECTOR NOTES

1. *Dimensions are measured along centerline of the girder.*
2. *Prior to installing the proposed shear studs, the Contractor shall clean the top flange so that it is free of debris, rust, scale, oil and other contaminants that would adversely affect the welding operation. Payment for cleaning the top flange for installation of proposed shear studs shall be incidental to Item 505.08, Shear Connectors. Existing steel may be coated with a lead-based paint system. See General Notes for more information.*
3. *The proposed shear studs shall be $\frac{7}{8}$ " diameter. Studs shall penetrate into the deck a minimum of 2" and maintain a clear cover of 2" to the top of the studs.*
4. *If existing shear connectors are present, they shall be removed such that they project 1 inch maximum above the top of the existing top flange unless they conflict with the installation of the new shear connectors or any other work. If the existing shear connectors interfere with installation of the new shear connectors or any other work, they shall be removed completely and ground flush with the top flange. All costs associated with this work shall be incidental to related Contract Items.*
5. *Pitch spacing may be adjusted at bolted splices to avoid splice bolts.*

15 OF 31	SHEET NUMBER				ROUTE 155\I-95 BRIDGE INTERSTATE 95 HOWLAND PENOBSCOT COUNTY				PROJ. MANAGER	J. BRASK	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	KEY PLAN & SHEAR CONNECTOR LAYOUT				DESIGN-DETAILED	S. LINDSLEY	E. MORRISON	08-24	SIGNATURE							
					CHECKED-REVIEWED	D. WHITE	B. COLBURN	08-24								
					DESIGNS-DETAILED	J. FITZ	N. EDMAN	08-24								
					DESIGNS-DETAILED											
					REVISIONS 1	Added Int. Diaphragms			9/24	P.E. NUMBER						
					REVISIONS 2											
					REVISIONS 3											
					REVISIONS 4											
					FIELD CHANGES					DATE						
									BRIDGE NO. 6068							
									WIN 25631.14							
									BRIDGE PLANS							



- ## STRUCTURAL STEEL NOTES
1. *Replace and add diaphragms at locations shown on Key Plan.*
 2. *The reuse of existing bolts will not be permitted.*
 3. *All bolts shall be $\frac{7}{8}" \phi$, ASTM F3125 Grade A325, Type 1, High Strength Bolts.*
 4. *Proposed Structural Steel shall be coated in accordance with Standard Specifications Section 506, Shop Applied Protective Coating - Steel (Zinc Rich Coating System). Payment for the coating will be incidental to Pay Item 504.70.*
 5. *Shop drill $\frac{1}{16}" \phi$ holes in diaphragm. Shop drill $\frac{1}{16}" \phi$ holes in bent plates. Field drill $\frac{1}{16}" \phi$ holes in existing girders.*
 6. *Proposed steel contact surfaces shall be cleaned in accordance with Pay Item 506.1775 Field Painting, New and Existing Steel with Zinc Rich Paint.*
 7. *Payment for field measuring and field drilling shall be incidental to Pay Item 504.71, "Structural Steel Erection".*
 8. *Existing connection plates that are being replaced shall be removed without damage to the girder. Payment will be incidental to Pay Item 504.71.*