

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



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BANGOR
PENOBSCOT COUNTY COUNTY
JOSHUA CHAMBERLAIN BRIDGE
OVER
PENOBSCOT RIVER
BRIDGE # 5312
WIN 25313.10

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, 10th Edition 2024.

DESIGN LOADING

Live Load..... HS - 20 (Existing Components)
Live Load..... HL-93 Modified for Strength-I (Modular Joint)

MATERIALS

Structural Steel:
All Shapes and Plates..... ASTM A709, Grade 50W
High Strength Bolts..... ASTM F3125, Grade A325, Type 3 for Weathering Steel, Otherwise Type 1

BASIC DESIGN STRESSES

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

PROJECT LOCATION	Joshua Chamberlain Bridge Bangor, Maine Lat. /Long. 44° 47' 46.4" N/ 68° 46' 5.3" W
PROGRAM AREA	Bridge Program
OUTLINE OF WORK	Pier 11 Joint Prebuy

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED

COMMISSIONER: *Deborah*
CHIEF ENGINEER: *W.E.*

DATE
6-1-26
5-29-26

STATE OF MAINE
PENOBSCOT COUNTY

JOSHUA CHAMBERLAIN BRIDGE
OVER PENOBSCOT RIVER

BANGOR

TITLE SHEET

PROJ. MANAGER: MICHAEL WHEATPE
DESIGN: DETAILED
CHECKED: REVIEWED
DESIGN: DETAILED2
DESIGN: DETAILED3
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

BY
MJC
CTA

DATE
5/21/2026
5/21/2026

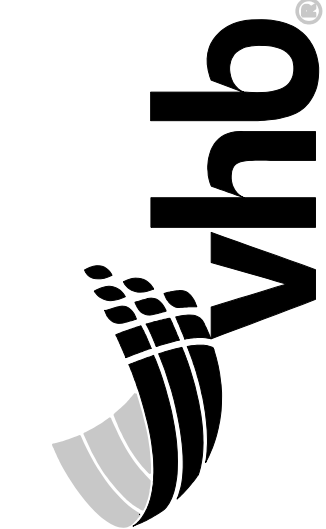
SIGNATURE
13255
P.E. NUMBER
5/21/2026
DATE

SHEET NUMBER
1
OF 4

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
522.07	Modular Expansion Devices - Fabricated & Delivered	1	EA

GENERAL CONSTRUCTION NOTES:

1. Project information referred to below may be accessed at the following MaineDOT web address:
<https://www.maine.gov/dot/doing-business/bid-opportunities>
2. 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.
3. All dimensions, angles, and stationing shown are taken from as-built construction drawings from 1954 & 1998 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.
4. New seals shall be continuous for the full width of the joint and installed in accordance with the manufacturer's recommendations.



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2531310	
WIN	25313.10
BRIDGE #5312	BRIDGE PLANS

PROJ. MANAGER	MICHAEL WIGHT	P.E.	BY	DATE
DESIGN-DETAILED	MJC		TSR	5/21/2026
CHECKED-REVIEWED	BJR		CTA	5/21/2026
DESIGN-DETAILED2				
DESIGN-DETAILED3				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

JOSHUA CHAMBERLAIN BRIDGE OVER PENOBSCOT RIVER PENOBSCOT COUNTY	
BANGOR	
ESTIMATED QUANTITIES & GENERAL CONSTRUCTION NOTES	

SHEET NUMBER	
2	
OF	4



Temperature Setting Table		
Temp (deg F)	Dimension "T" (Inches)	Dimension "W" (Inches)
15	13 1/2	4 3/4
30	12 7/8	4 1/8
45	12 1/4	3 1/2
60	11 5/8	2 7/8
75	11	2 1/4
90	10 3/8	1 5/8

