

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Sixth Edition 2012.

DESIGN LOADING

Live Load HL - 93

TRAFFIC DATA

Current (2012) AADT 19,870
Future (2032) AADT 23,210
DHV - % of AADT 11
Design Hour Volume 2,553
Heavy Trucks (% of AADT) 9
Heavy Trucks (% of DHV) 6
Directional Distribution (% of DHV) 57
18 kip Equivalent P 2.0 1,051
18 kip Equivalent P 2.5 1,002
Design Speed (mph) 35

MATERIALS

Concrete:
Header Concrete Class "LP"
All Other Class "A"
Reinforcing Steel ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete f 'c = 4,350 psi
Reinforcing Steel f y = 60,000 psi
Structural Steel:
ASTM A 709, Grade 50W F y = 50,000 psi
ASTM A 709, Grade 36 F y = 36,000 psi
ASTM A 325 F μ = 120,000 psi

WISCASSET\EDGECOMB
LINCOLN COUNTY
DONALD E. DAVEY BRIDGE
OVER
SHEEPSCOT RIVER
U.S. ROUTE 1
FEDERAL AID PROJECT NO. NHS-1928(700)
PROJECT LENGTH 0.54 mi.
BRIDGE NO. 2262

LIST OF DRAWINGS

Title Sheet 1
Quantities & Notes 2
Superstructure Plan 3
Finger Joint & Trough Details 4,5

UTILITIES

Central Maine Power Company
Fairpoint Communications
Time Warner Cable
Maine Eastern Railroad

MAINTENANCE OF TRAFFIC

Maintain two 11'-6" (min.) wide lanes at all times.

PROJECT LOCATION:	Donald E. Davey bridge #2262 in Wiscasset carrying Route 1 over the Sheepscot River. Latitude 44°00' 03.32", Longitude 69°39' 29"
PROGRAM AREA:	Bridge Program
OUTLINE OF WORK:	Bridge Wearing Surface Replacement, Finger Joint Replacement, Approach Transitioning

WIN 19287.00

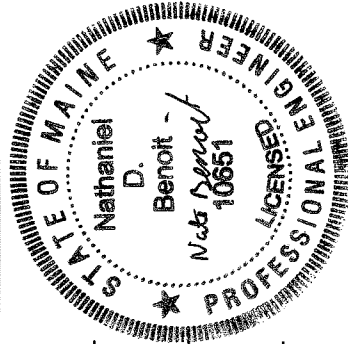
NHS-1928(700)

WISCASSET\EDGECOMB
DONALD E. DAVEY BRIDGE

SHEET NUMBER

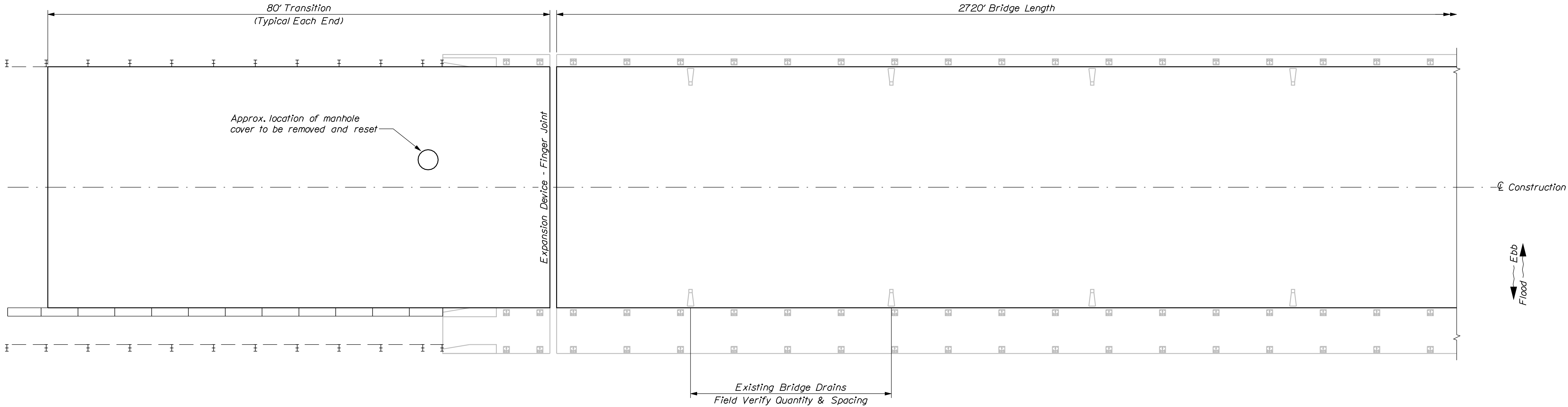
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OF 5

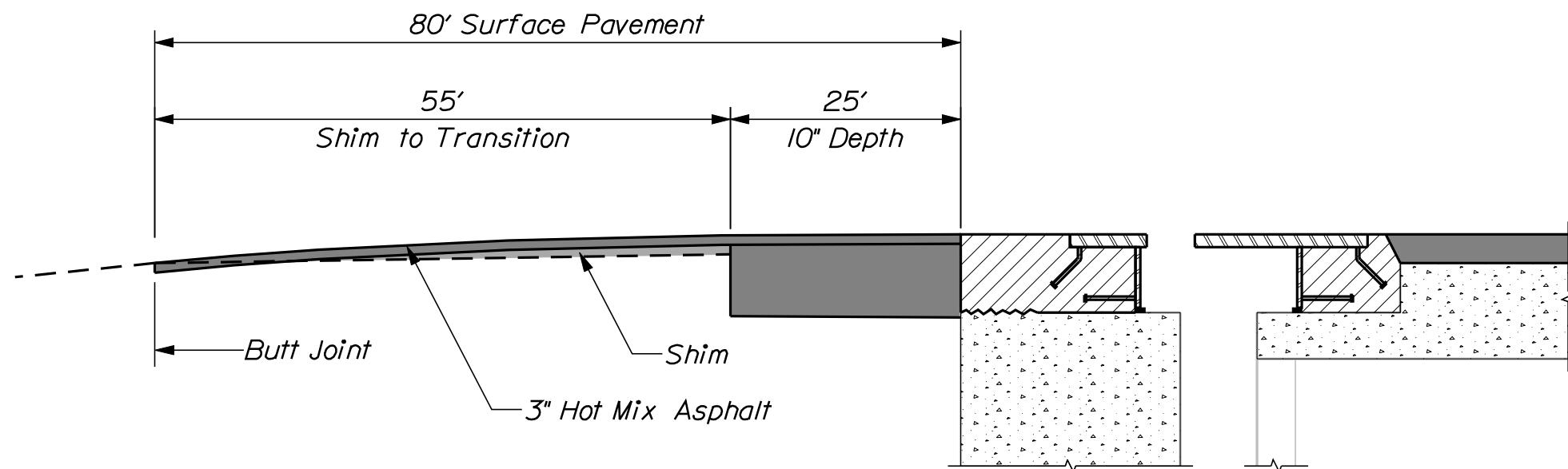


SIGNATURE
Nathaniel D. Benoit
P.E. NUMBER
10651
DATE
11/13/12

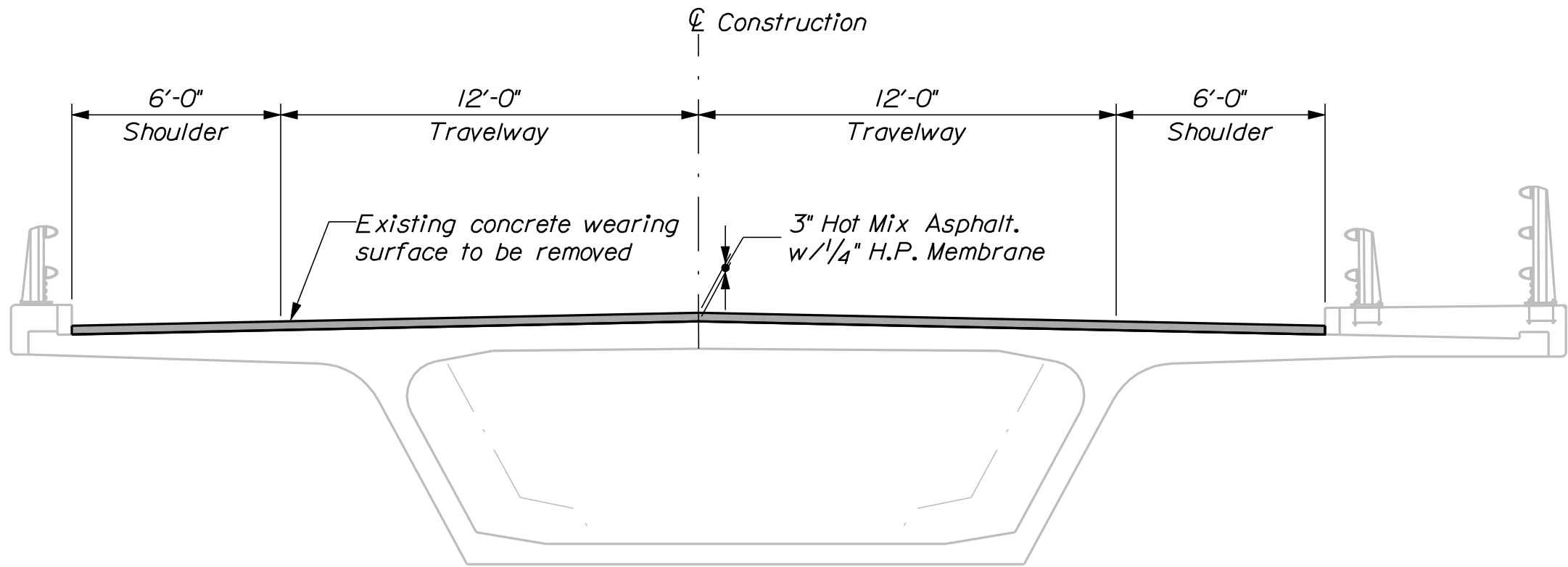
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER: [Signature]
CHIEF ENGINEER: [Signature]



WEARING SURFACE REPLACEMENT PLAN
WISCASSET END SHOWN - EDGEComb END OPPOSITE HAND



LONGITUDINAL APPROACH TRANSITION SECTION



TYPICAL BRIDGE SECTION

DONALD E. DAVEY BRIDGE SHEEPSHOT RIVER WISCASSET\EDGECOMB LINCOLN COUNTY		PROJ. MANAGER		NATE BENNETT	BY	DATE
		DESIGN-DETAILED		DCE	BUN	
SUPERSTRUCTURE PLAN		CHECKED-REVISED		GSP	ADN	
		DESIGN2-DETAILED2				
		DESIGN3-DETAILED3				
		REVISONS 1				
		REVISONS 2				
		REVISONS 3				
		REVISONS 4				
		FIELD CHANGES				

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
NHS-1928(700)	
BRIDGE NO. 2262	WIN 19287.00
BRIDGE PLANS	

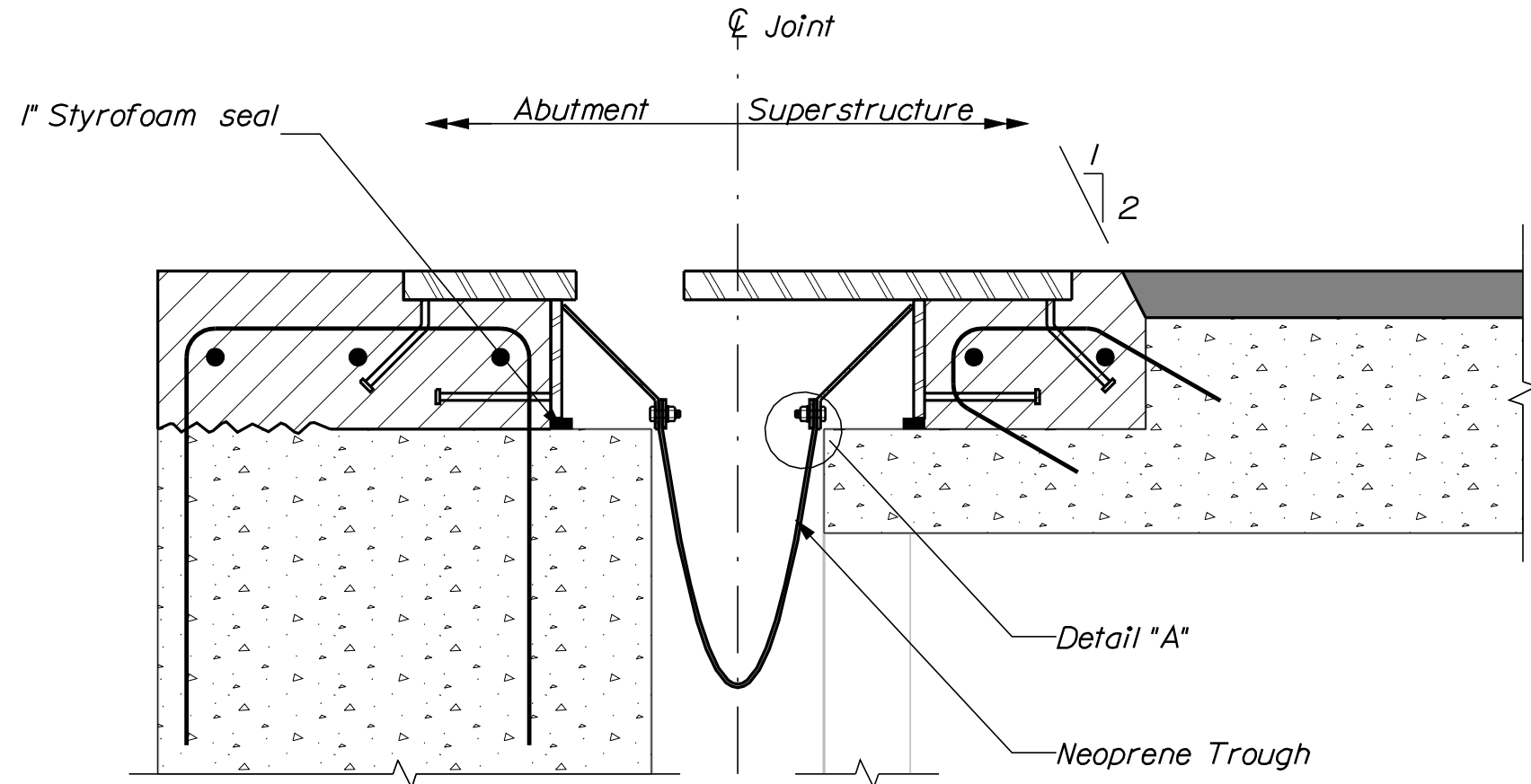
SHEET NUMBER	
3	OF 5

Date:11/28/2012

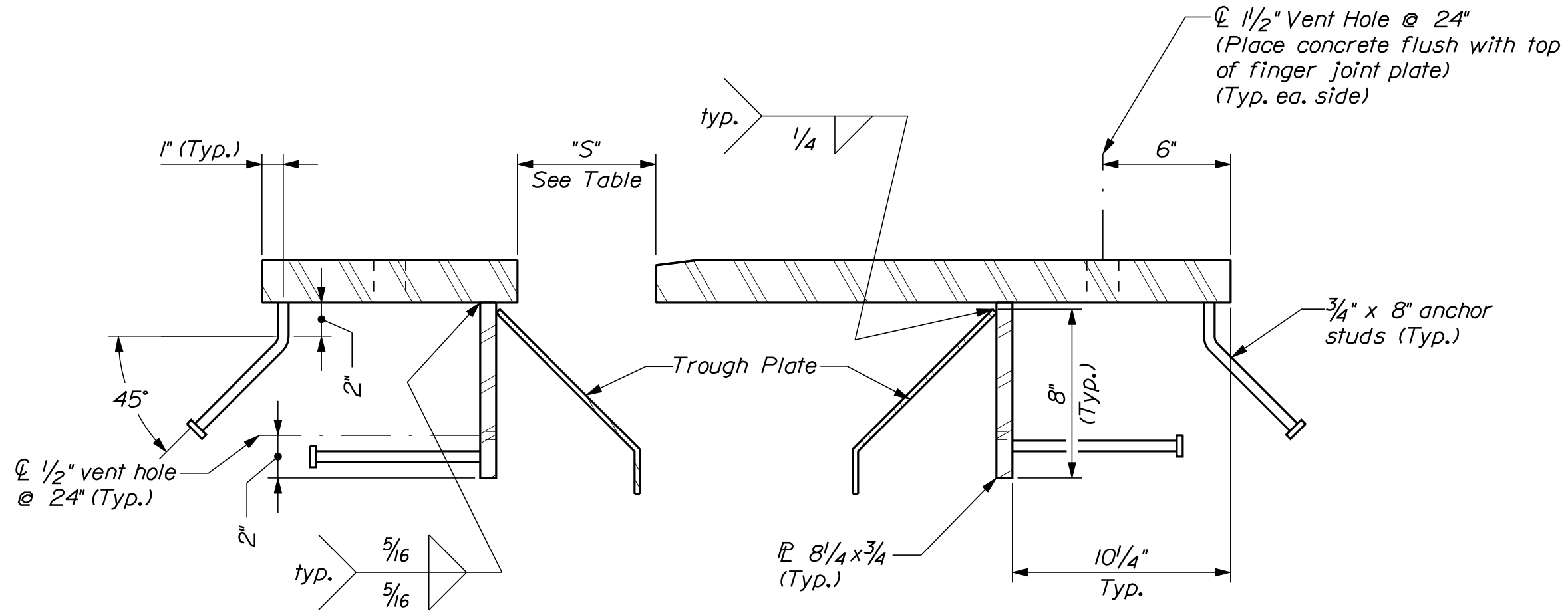
Username: devan.c.eaton

Division: BRIDGE

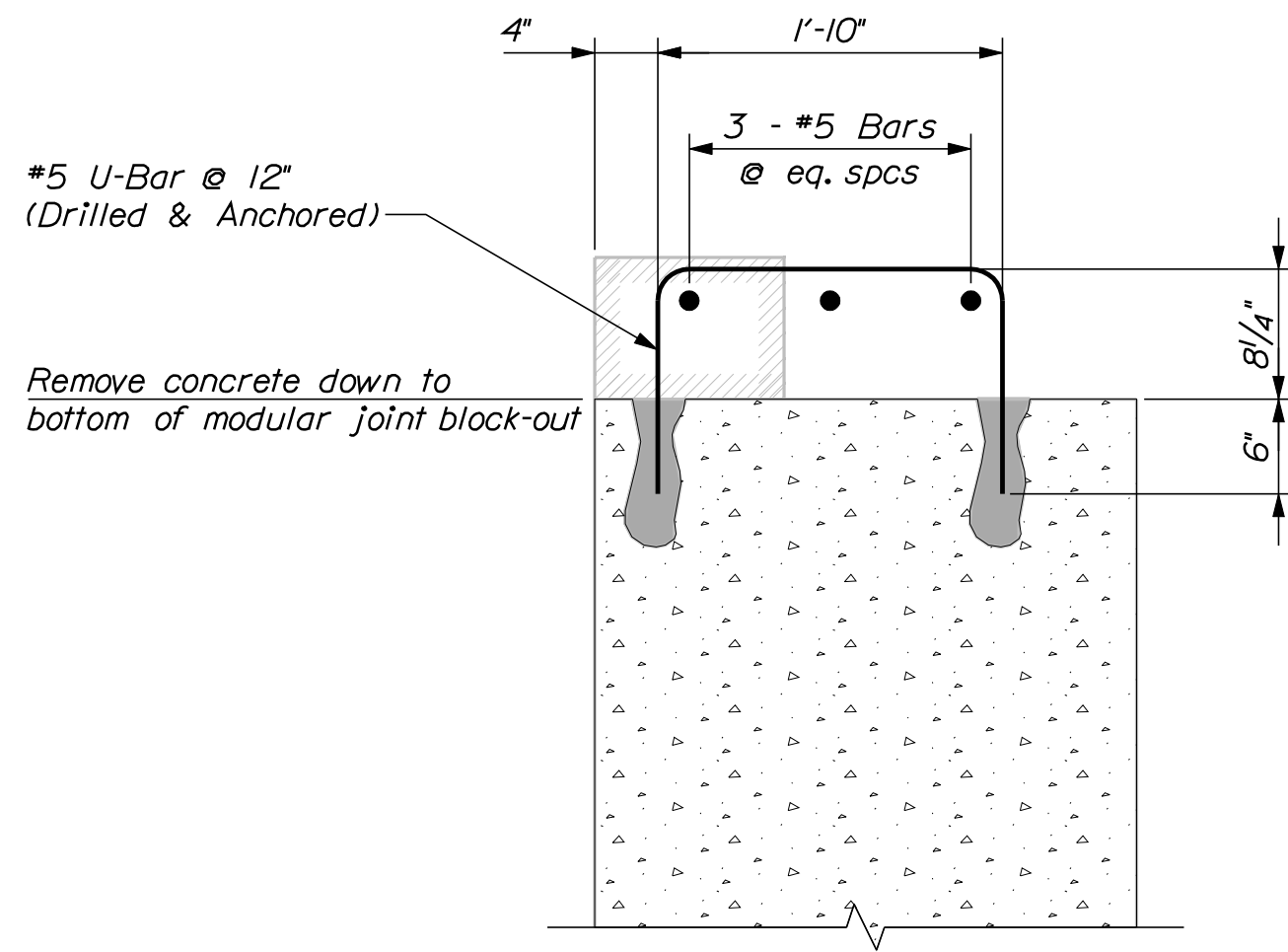
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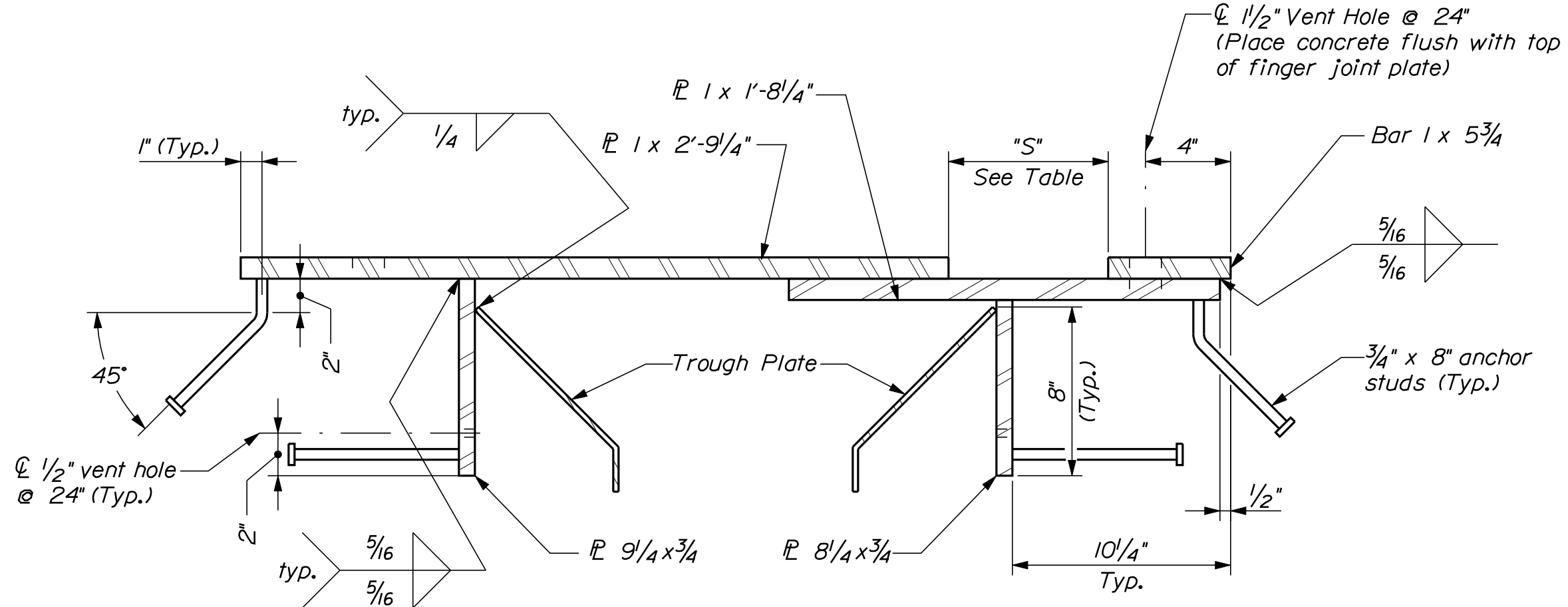
FINGER JOINT AND TROUGH DETAIL



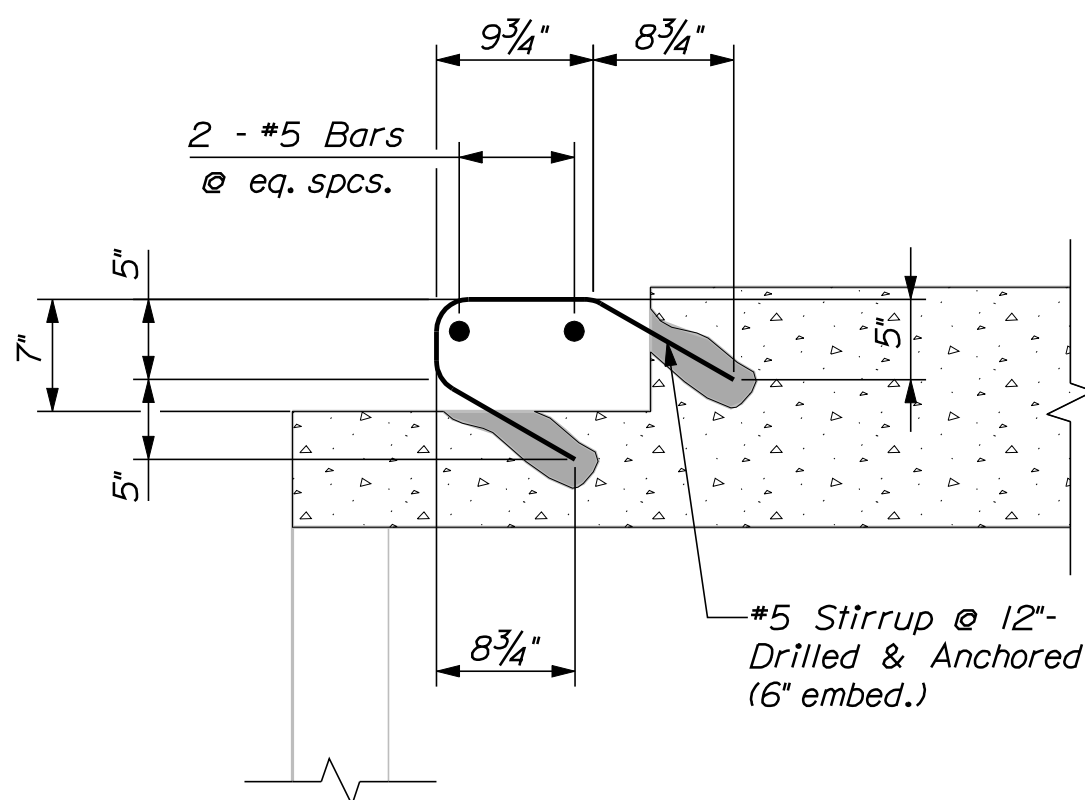
EXPANSION JOINT SECTION
FINGER JOINT



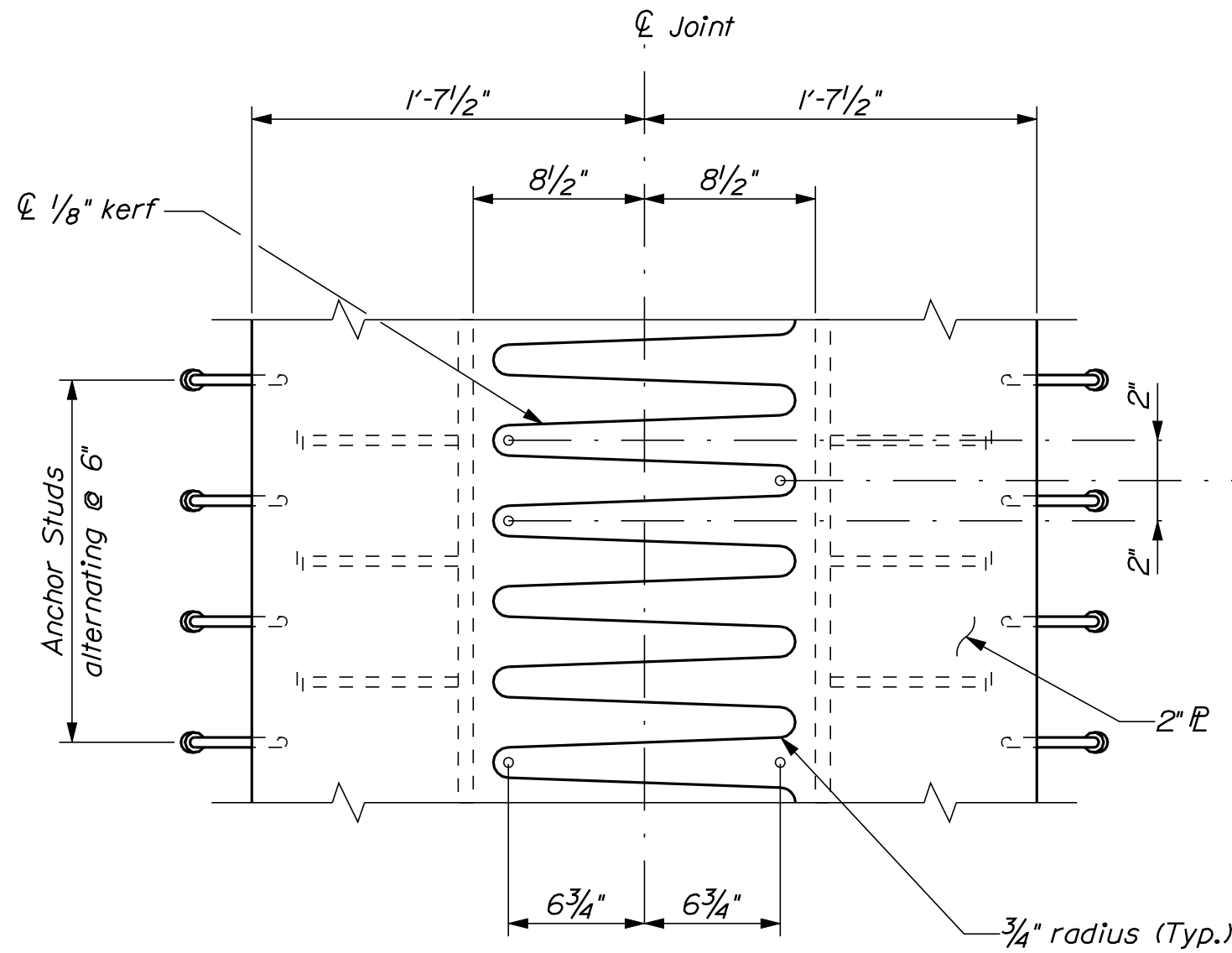
ABUTMENT SECTION
All reinforcing steel to be epoxy coated



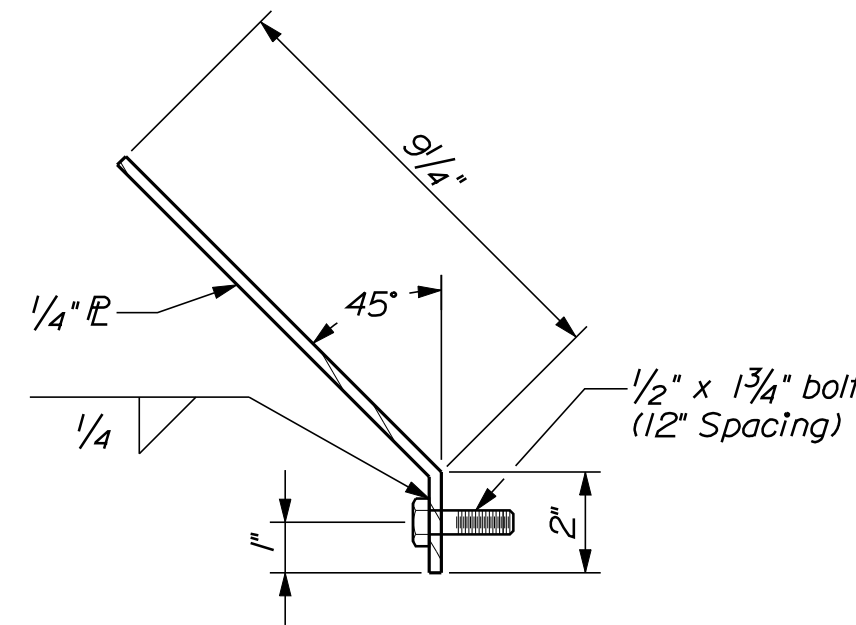
EXPANSION JOINT SECTION
EXPANSION DAM



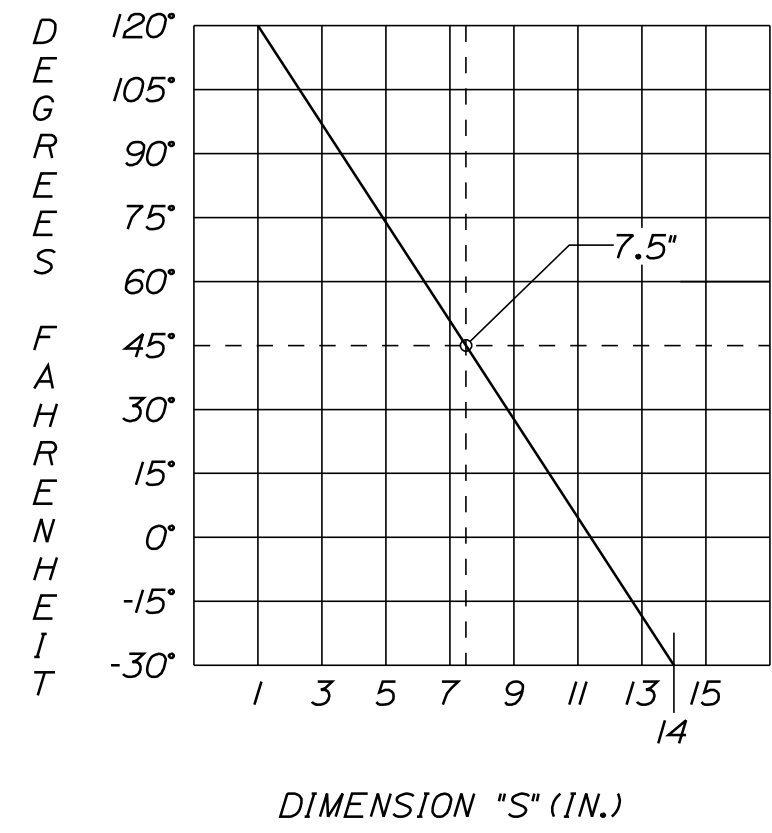
SUPERSTRUCTURE SECTION
All reinforcing steel to be epoxy coated



FINGER DETAIL

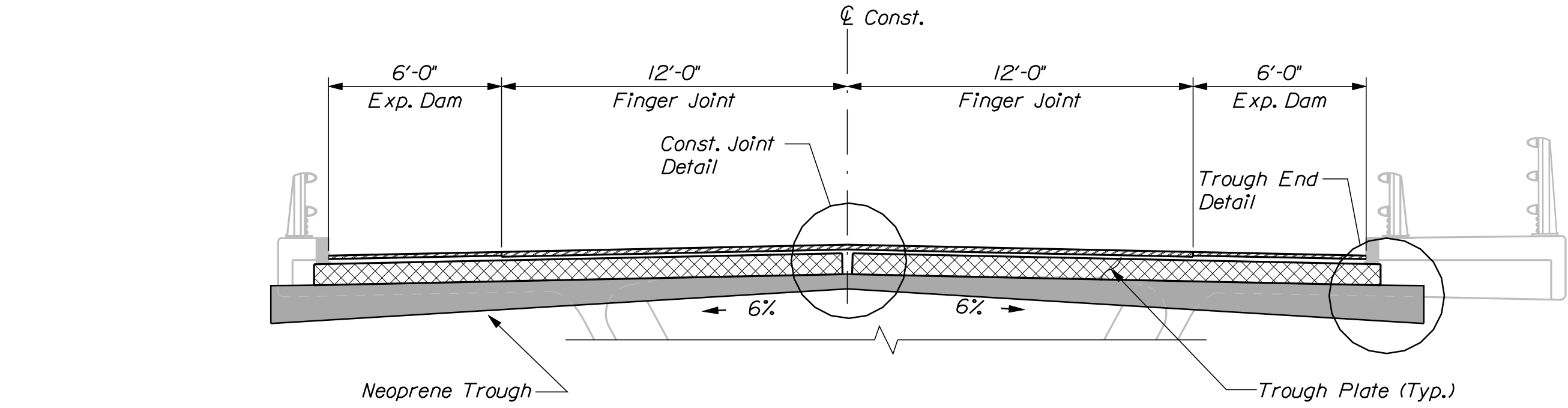


TROUGH PLATE SECTION

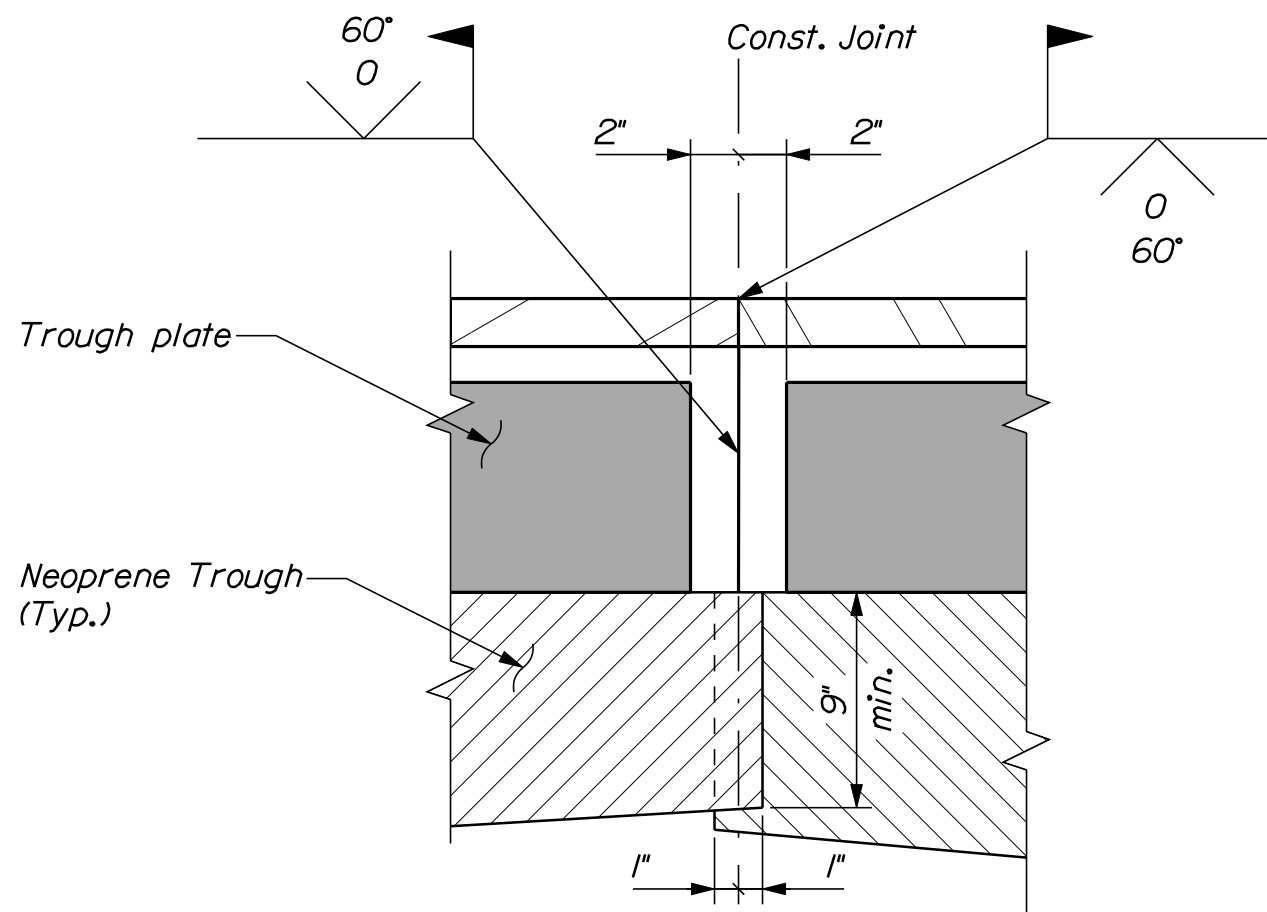


EXPANSION JOINT ADJUSTMENT CHART

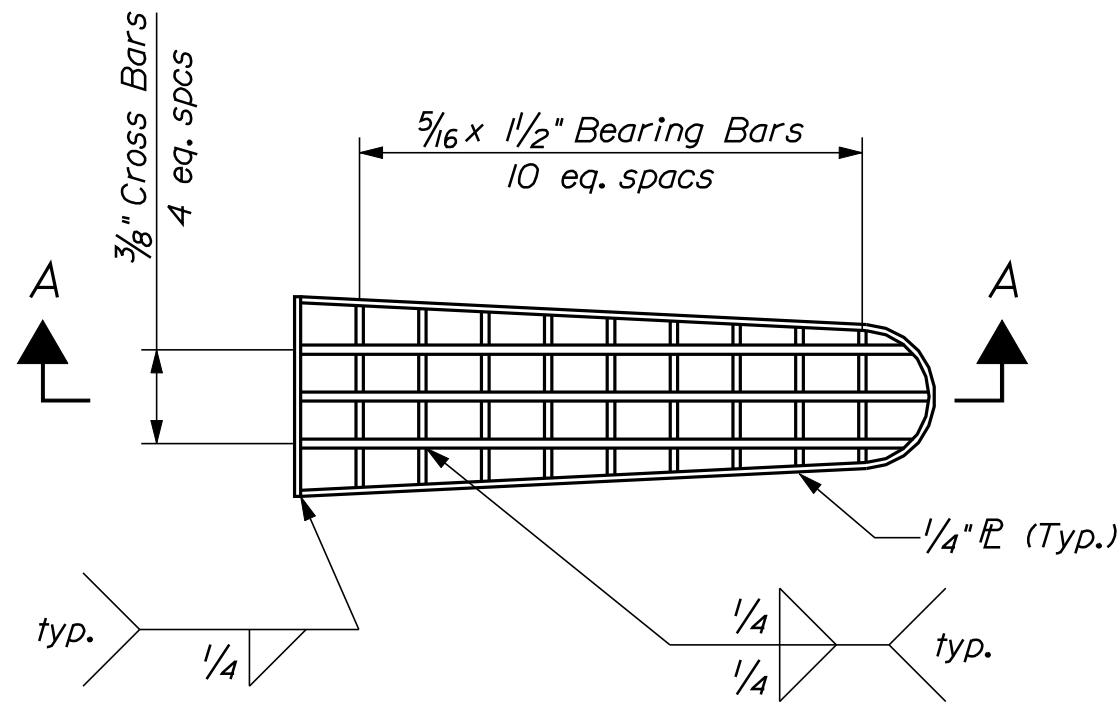
STATE OF MAINE				DEPARTMENT OF TRANSPORTATION			
NHS-1928(700)				BRIDGE NO. 2292			
WIN				19287.00			
BRIDGE PLANS							
DONALD E. DAVEY BRIDGE				FINGER JOINT DETAIL			
SHEEPSCOT RIVER							
WISCASSET\EDGECOMB LINCOLN COUNTY							
SIGNATURE				P.E. NUMBER			
DATE				DATE			
PROJ. MANAGER				BY			
DESIGN-DETAILED				DATE			
CHECKED-REVIEWED				DATE			
DESIGN-DETAILED				DATE			
REVISIONS 1				DATE			
REVISIONS 2				DATE			
REVISIONS 3				DATE			
REVISIONS 4				DATE			
FIELD CHANGES				DATE			
SHEET NUMBER				4			
OF 5							



EXPANSION JOINT ELEVATION

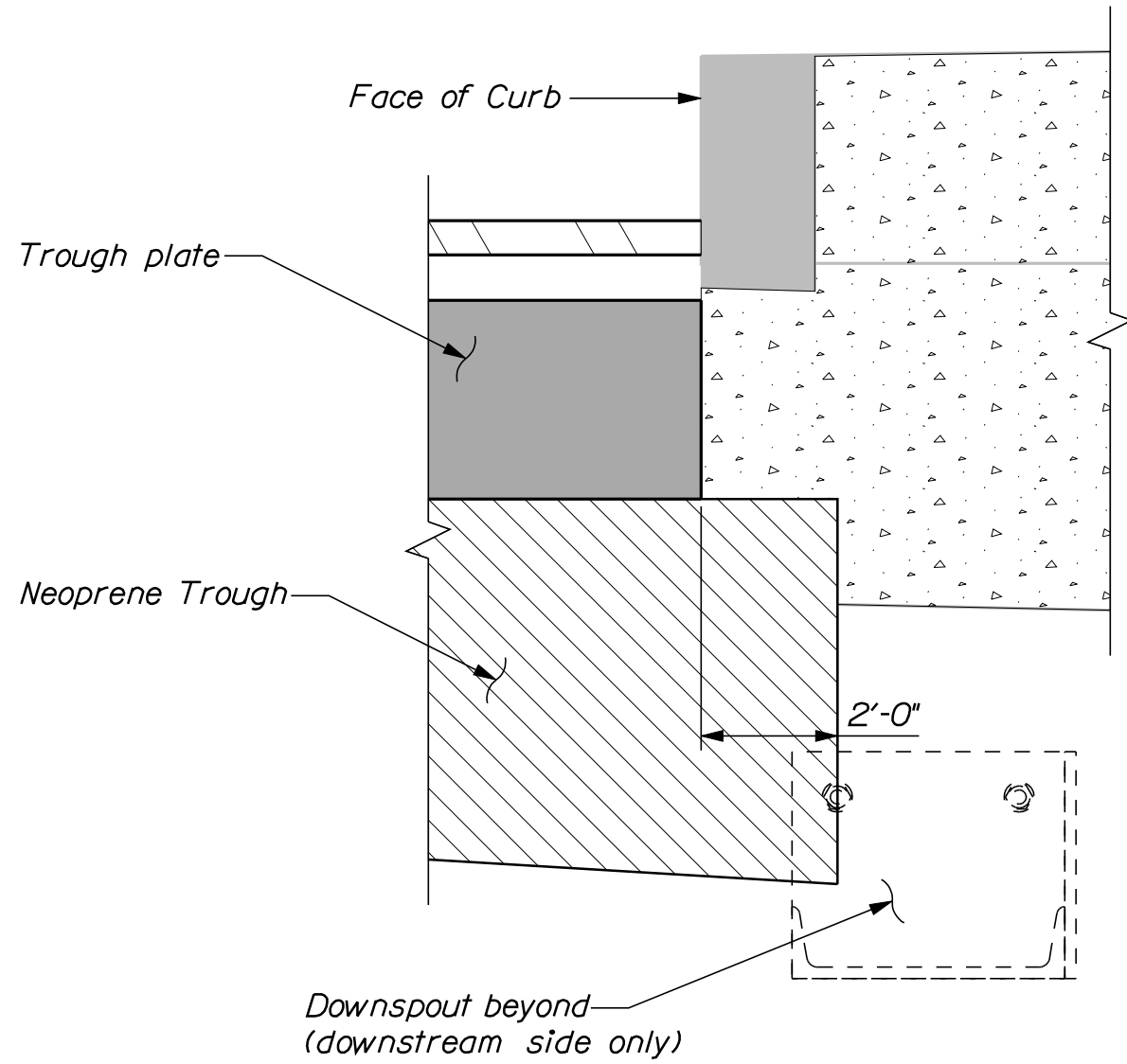


CONSTRUCTION JOINT DETAIL

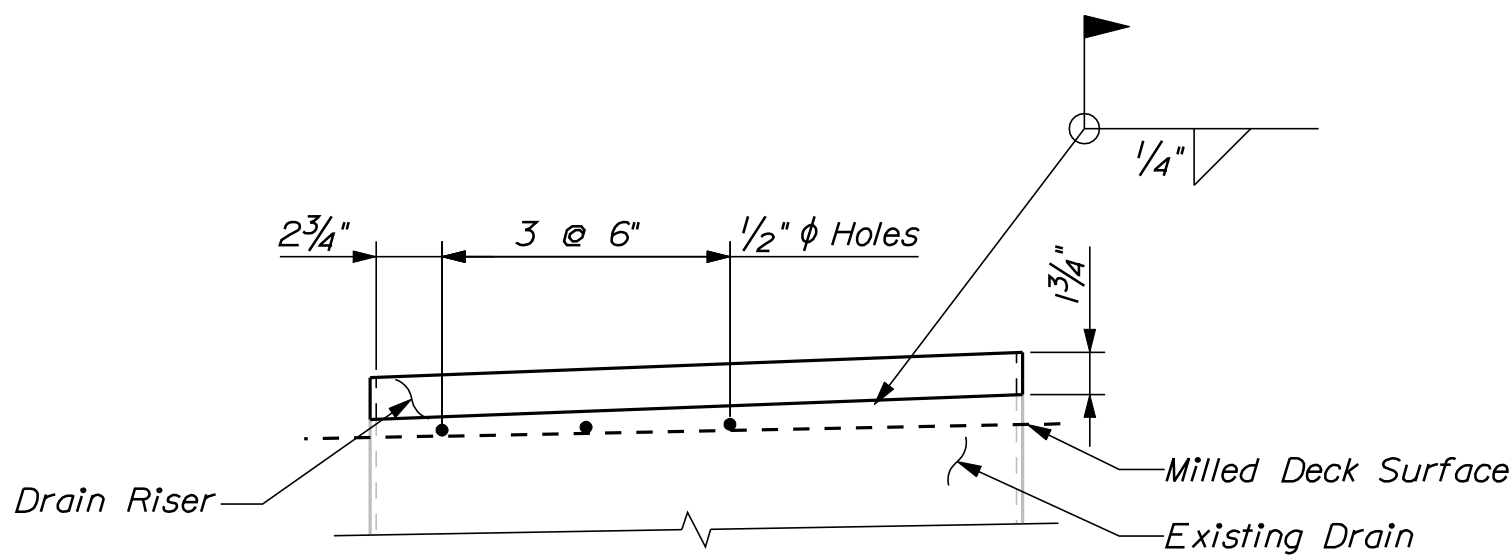


DRAIN RISER PLAN

Perimeter dimensions shall match existing drains.

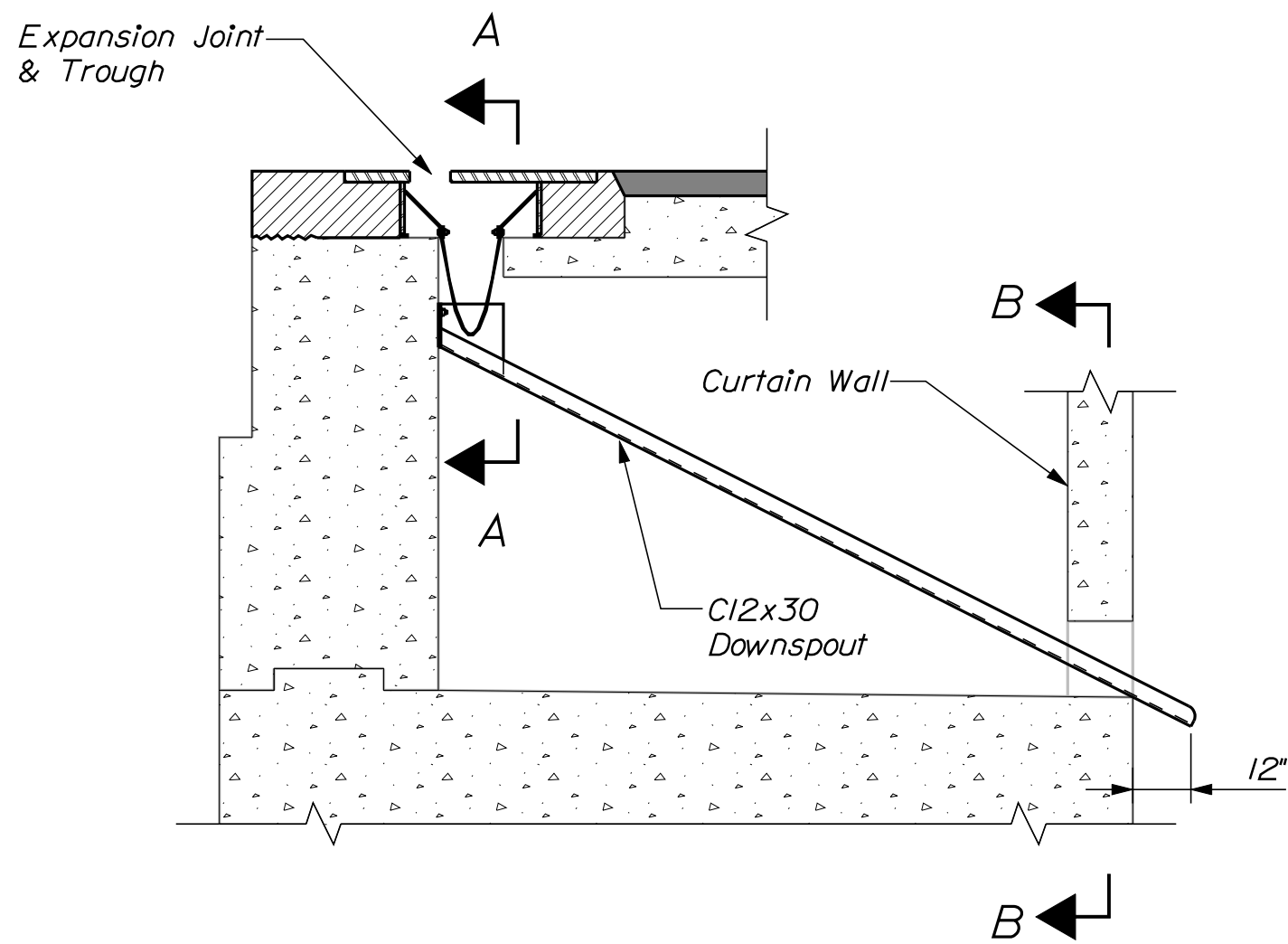


TROUGH END DETAIL

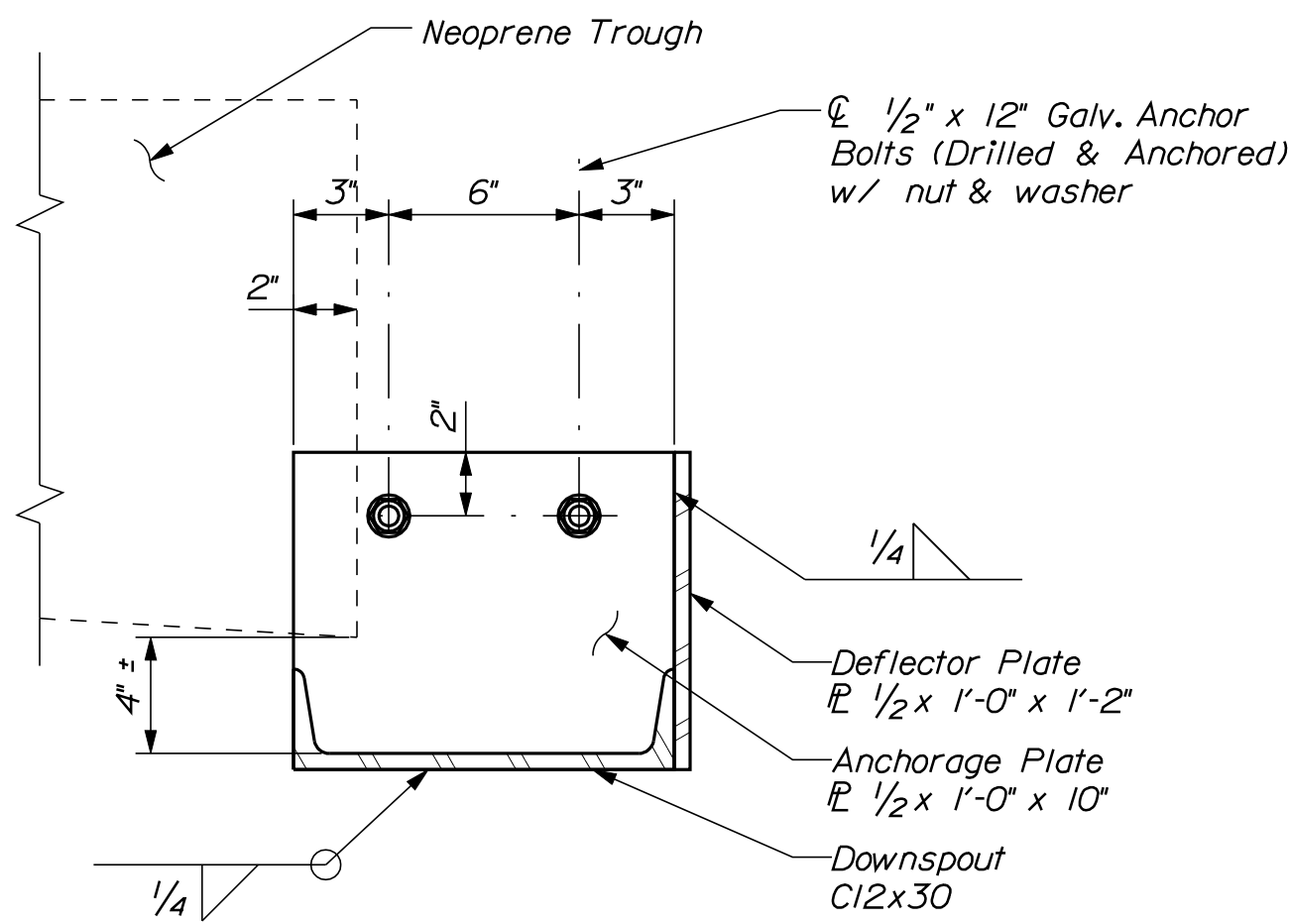


DRAIN SECTION "A-A"

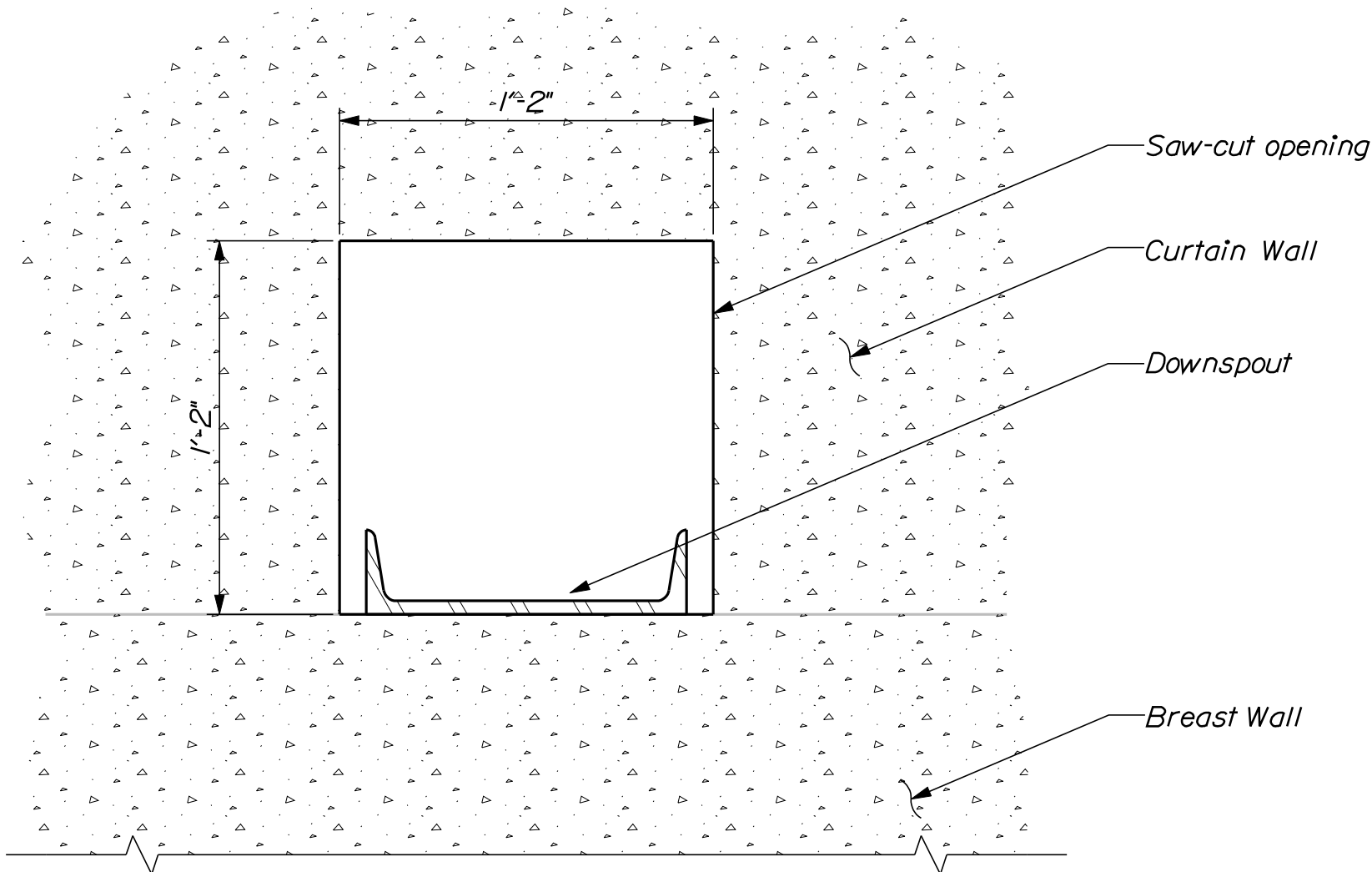
1/2" φ Drain holes to be drilled through existing drain.



DOWNSPOUT DETAIL



DOWNSPOUT SECTION "A-A"



DOWNSPOUT SECTION "B-B"

SHEET NUMBER 5 OF 5	DONALD E. DAVEY BRIDGE SHEEPSKOT RIVER WISCASSET\EDGECOMB LINCOLN COUNTY				PROJ. MANAGER	NATE BENNET	BY	DATE
	TROUGH DETAILS				DESIGN-DETAILED	DCE	B.J.N	
					CHECKED-REVIEWED	GSP	ADN	
					DESIGN2-DETAILED2			
					DESIGN3-DETAILED3			
					REVISIONS 1			
					REVISIONS 2			
					REVISIONS 3			
					REVISIONS 4			
					FIELD CHANGES			
STATE OF MAINE DEPARTMENT OF TRANSPORTATION NHS-1928(700)								
BRIDGE NO. 2262WIN19287.00BRIDGE PLANS								