

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



DEBLOIS WASHINGTON COUNTY DEBLOIS BRIDGE OVER NARRAGUAGUS RIVER ROUTE 193 FEDERAL AID PROJECT NO. 2529700 PROJECT LENGTH 0.080 mi. BRIDGE NO. 3152

SPECIFICATIONS

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

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2021) AADT 570
 Future (2041) AADT 630
 DHV - % of AADT 11
 Design Hour Volume 69
 Heavy Trucks (% of AADT) 27
 Heavy Trucks (% of DHV) 19
 Directional Distribution (% of DHV) 51
 18 kip Equivalent P 2.0 90
 18 kip Equivalent P 2.5 86
 Design Speed (mph) 35

MATERIALS

Concrete:
 Curbs Class "LP"
 All Other Class "A"
 Reinforcing:
 Plain Reinforcing Steel ASTM A615, Grade 60

BASIC DESIGN STRESSES

Concrete:
 Class "A" $f'c = 4,000$ psi
 Class "LP" $f'c = 5,000$ psi
 Reinforcing:
 Plain Reinforcing Steel $f_y = 60,000$ psi

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UTILITIES

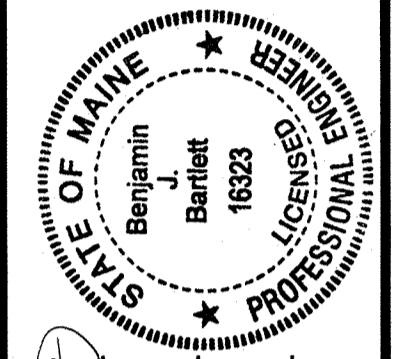
Union River Telephone
Versant Power

MAINTENANCE OF TRAFFIC

Maintain one lane of alternating traffic using traffic signals.

<u>PROJECT LOCATION</u>	Deblois Bridge (#3152) over the Narraguagus River, located 0.14 of a mile east of Lane Road. Lat./Long. 44°44'26.6" N 68°00'48.0" W
<u>PROGRAM AREA</u>	Highway-Bridges
<u>OUTLINE OF WORK</u>	Deck Replacement

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER: [Signature]
CHIEF ENGINEER: [Signature]
DATE: 12-13-23



SIGNATURE: Benjamin J. Bartlett
P.E. NUMBER: 16323
DATE: 12/13/2023

PROGRAM	BRIDGE
PROJECT MANAGER	MARK PARLIN
DESIGNER	BEN BARTLETT
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

2529700 WIN 025297.00

DEBLOIS
DEBLOIS BRIDGE
TITLE SHEET

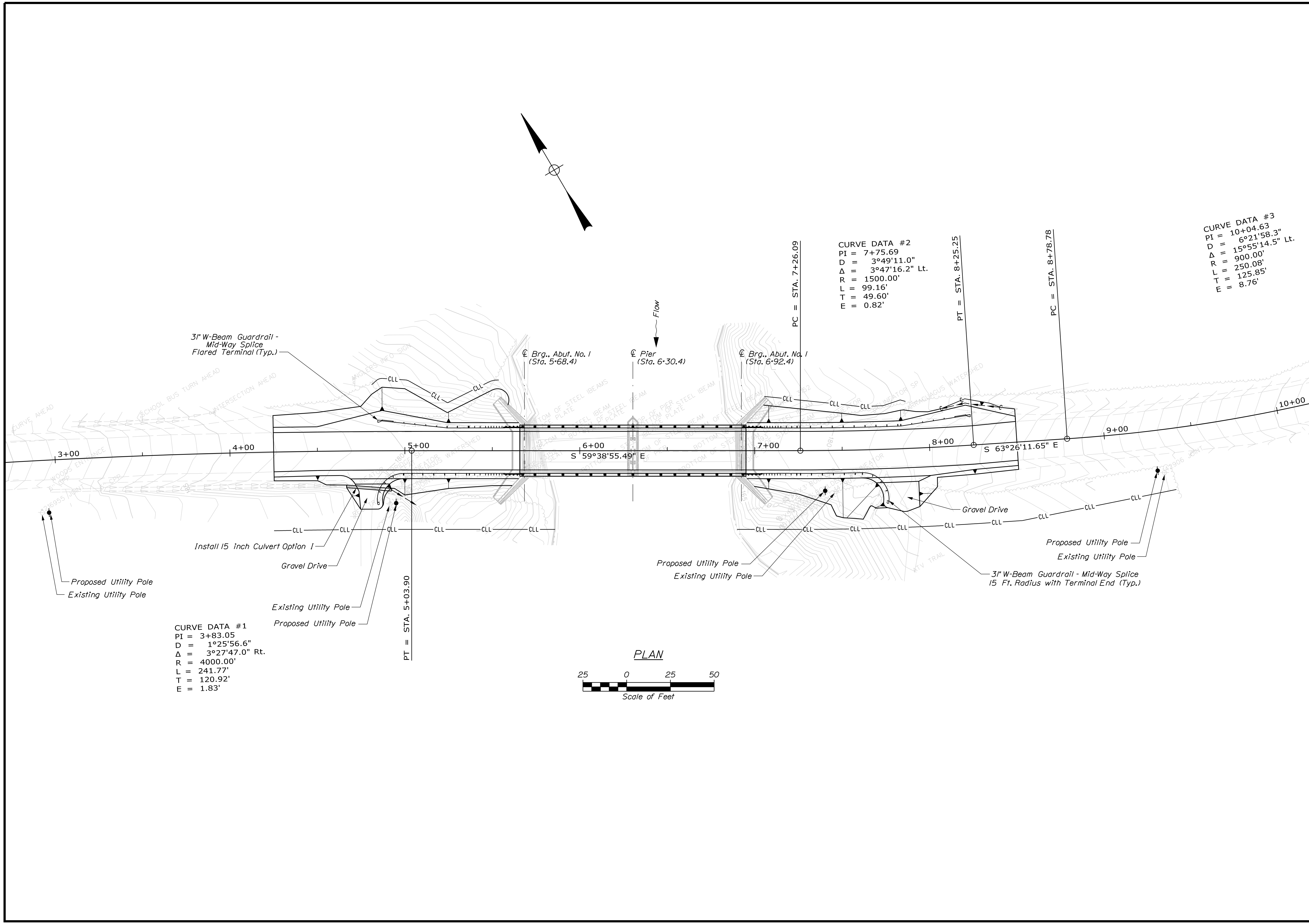
SHEET NUMBER
1
OF 19

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.10	REMOVING EXISTING SUPERSTRUCTURE (PROPERTY OF CONTRACTOR) (120 CY)	1	LS
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	5	CY
202.202	REMOVING PAVEMENT SURFACE	190	SY
203.20	COMMON EXCAVATION	730	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	480	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	121	T
403.209	HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, & INCIDENTALS)	2	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	155	T
409.15	BITUMINOUS TACK COAT - APPLIED	59	G
502.26	STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLABS ON STEEL BRIDGES (110 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (16 CY)	1	LS
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	35700	LB
503.13	REINFORCING STEEL, PLACING	35700	LB
503.17	MECHANICAL WELDED SPLICE	526	EA
505.08	SHEAR CONNECTORS (1320)	1	LS
507.0821	STEEL BRIDGE RAILING, 3 BAR (258 LF)	1	LS
507.0822	STEEL APPROACH RAILING, 3-BAR	4	EA
507.131	TEMPORARY BRIDGE RAILING	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (375 SY)	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (130 SY)	1	LS
523.52	BEARING INSTALLATION	20	EA
523.5301	STEEL BEARINGS, FIXED, SLIDING PLATE	10	EA
523.5302	STEEL BEARINGS, EXPANSION, SLIDING PLATE	10	EA
524.301	TEMPORARY STRUCTURAL SUPPORT - JACKING	1	LS
524.301	TEMPORARY STRUCTURAL SUPPORT - APPROACHES	1	LS
526.305	PORTABLE CONCRETE BARRIER, BRACED TYPE 1 (200 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	2	UN
603.16	15' CULVERT PIPE OPTION 1	26	LF
606.1301	3" W-BM GR, MID-WAY SPLICE-SGL FACED	147	LF
606.1303	3" W-BM GR, MID-WAY SPLICE-15' RAD AND LESS	50	LF
606.1305	3" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	2	EA
606.1721	BRIDGE TRANSITION - TYPE 1	4	EA
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	2	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.18	STONE DITCH PROTECTION	5	CY
613.319	EROSION CONTROL BLANKET	135	SY
615.07	LOAM	26	CY
618.14	SEEDING METHOD NUMBER 2	5	UN
619.12	MULCH	5	UN
619.14	EROSION CONTROL MIX	50	CY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1275	LF
627.77	REMOVING PAVEMENT MARKINGS	350	SF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	900	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	10	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.14	GRADER (INCLUDING OPERATOR)	10	HR
631.15	ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	360	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

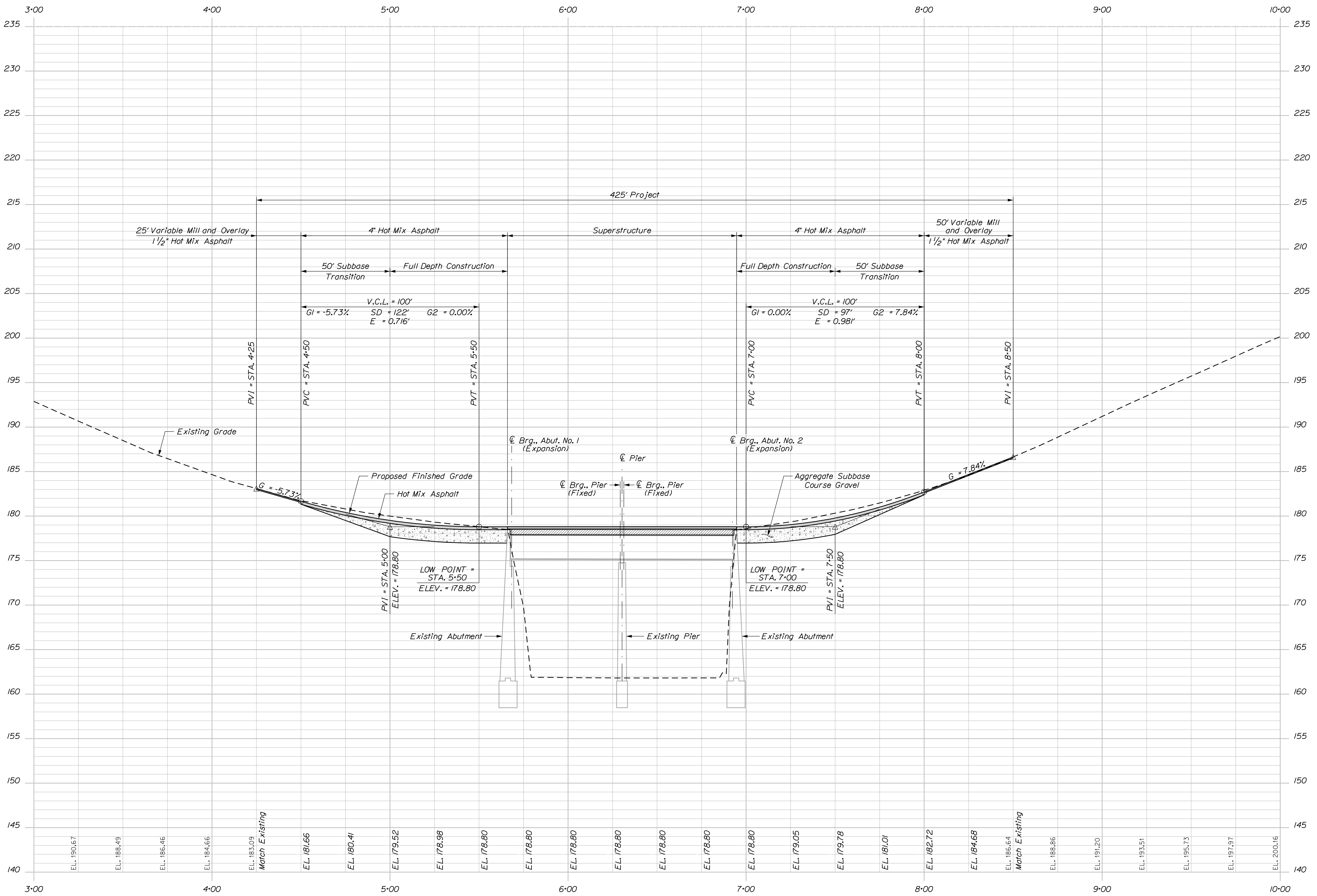
GENERAL CONSTRUCTION NOTES

- For easements, construction limits, and right of way lines, refer to the Right of Way Map.
- The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.
- All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- Existing signs within the Project limits shall be removed and reset as directed by the Resident. Payment for removal and reinstallation of existing signs will be considered incidental to the Contract. No separate payment will be made.
- Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
- In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.
- Stones which cannot be rolled or compacted into the surface of the shoulder shall be removed by hand raking. Payment for hand raking will be considered incidental to Pay Item 304.10, Aggregate Subbase Course - Gravel.
- Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
- Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Pay Item 619.14, Erosion Control Mix.
- Place a 24 inch wide strip of Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
- A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
- Where it is apparent that runoff will cause continual erosion, Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed. Payment will be made under the appropriate Contract items.
- Protective Coating for Concrete Surfaces shall be applied to the following areas:
 - All exposed surfaces of concrete curbs,
 - Fascias down to the drip notch,
 - Top of abutment backwalls and to one foot below grade on back side,
 - All exposed surfaces of abutments and wingwalls.
- Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>
- 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.
- 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:
 - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - 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.
- The steel portions of the existing bridge may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing portions of the existing bridge. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Payment for this work will not be made separately, but will be considered incidental to related Contract Items.
- Proposed bridge drains and drain support, including the connection to the existing girders are considered incidental to Item 502.26.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2529700 WIN 025297.00 BRIDGE NO. 3152 BRIDGE PLANS	DATE: NOV 2023 BY: D. SHAW M. PARLIN L. AQUILAR T. AGUILAR NOV 2023 NOV 2023 NOV 2023	SIGNATURE P.E. NUMBER DATE
DEBLOIS BRIDGE NARRAGUAGUS RIVER WASHINGTON COUNTY DEBLOIS ESTIMATED QUANTITIES	SHEET NUMBER 2 OF 19	



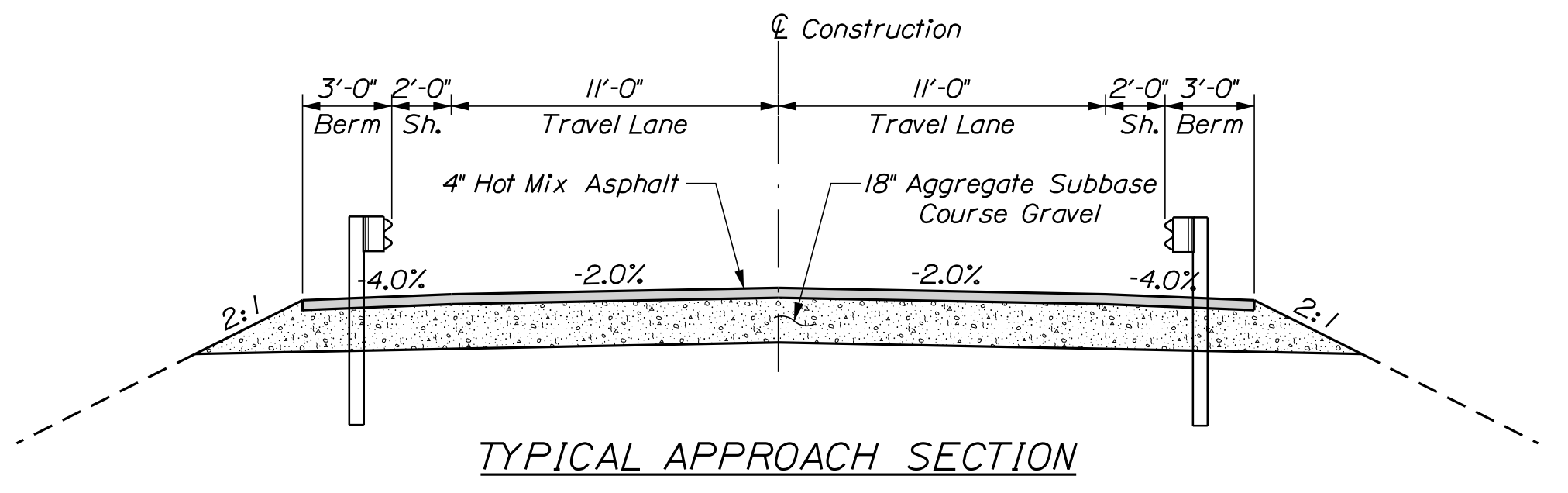
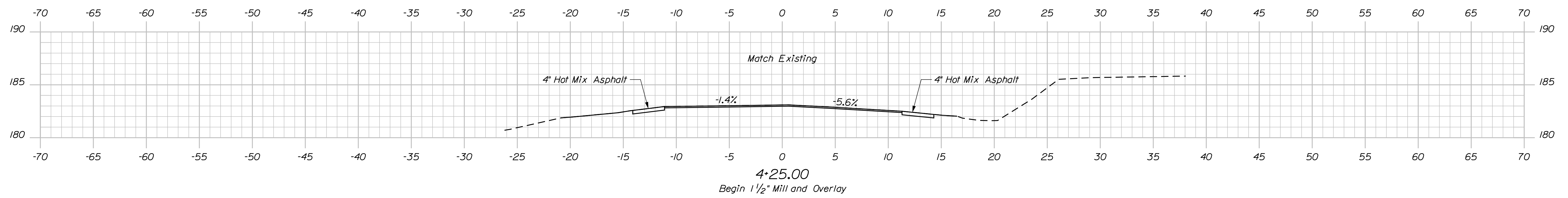
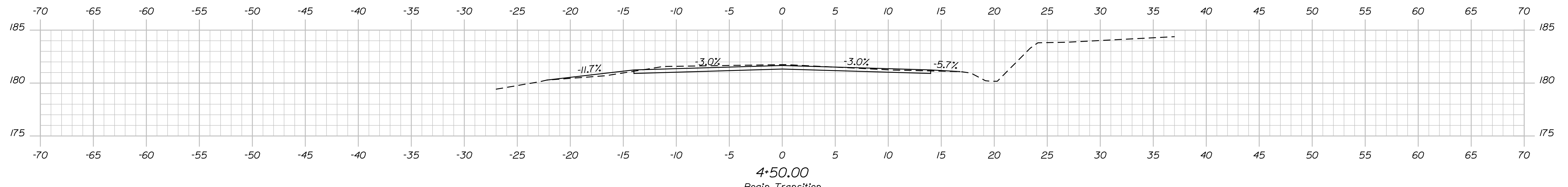
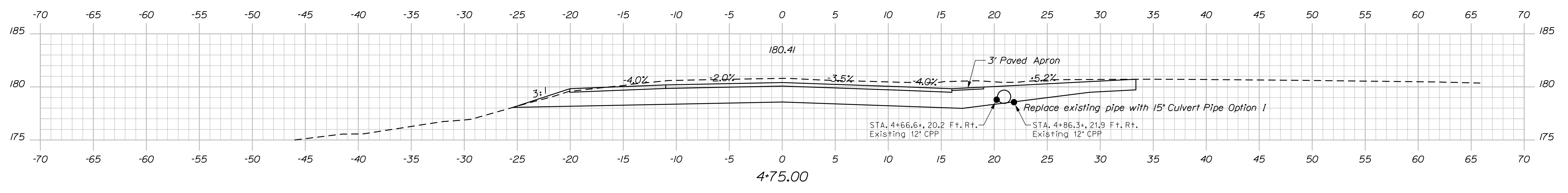
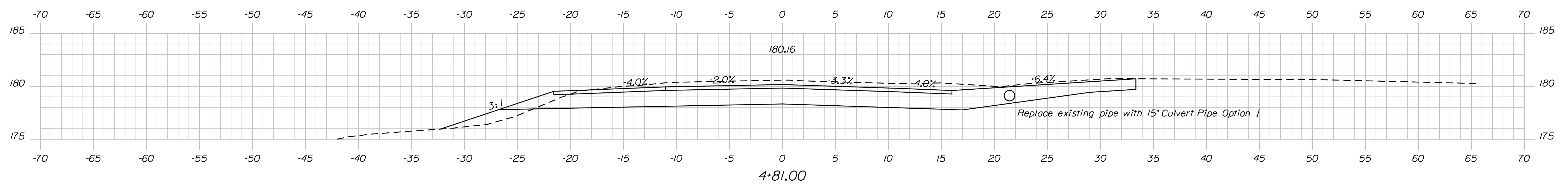
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2529700	
BRIDGE NO. 3152		WIN 025297.00	
BRIDGE PLANS			
PROJ. MANAGER M. PARLIN	BY D. SHAW	DATE NOV 2023	SIGNATURE
DESIGN DETAILED B. BARTLETT			
CHECKED-REVIEWED T. AQUILAR			
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
DEBLOIS BRIDGE NARRAGAGUS RIVER WASHINGTON COUNTY		GENERAL PLAN	
SHEET NUMBER		3	
		OF 19	



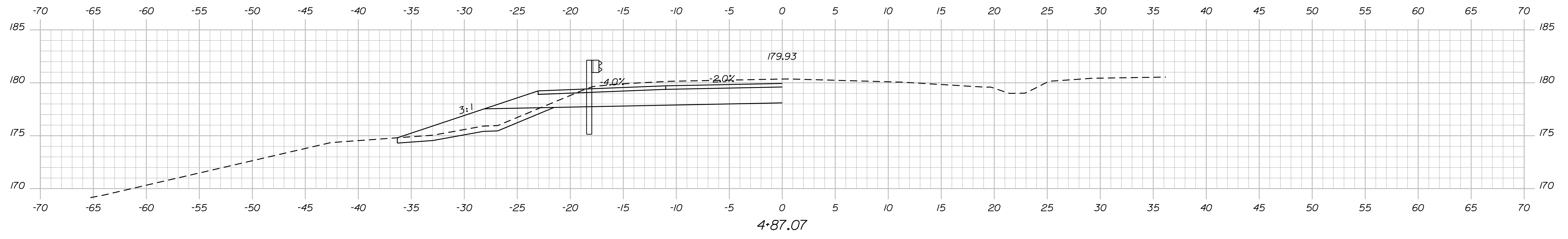
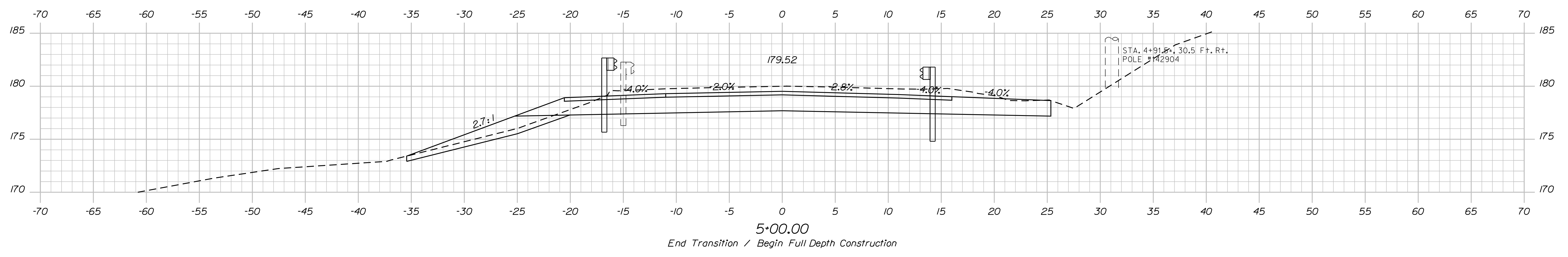
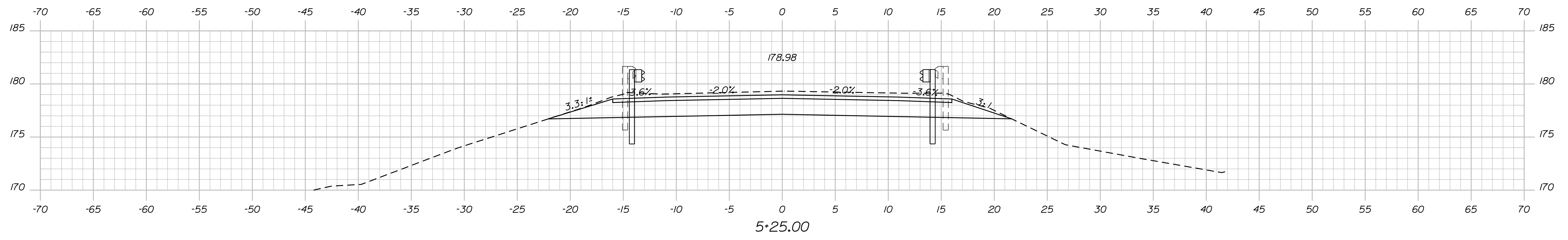
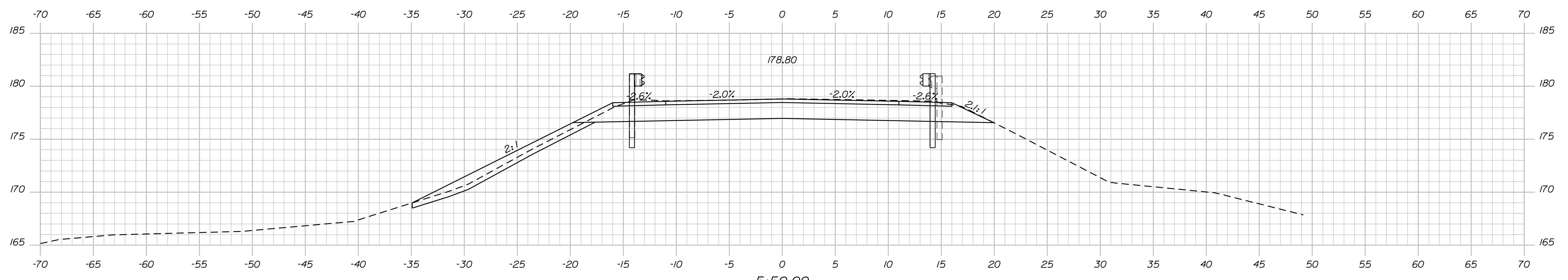
PROFILE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2529700	
DEBLOIS BRIDGE NARRAGAGUS RIVER WASHINGTON COUNTY		BRIDGE NO. 3152 WIN 025297.00 BRIDGE PLANS	
PROJ. MANAGER	M. PARLIN	BY	DATE
CHECKED/REVIEWED	J. BARTLETT	D. SHAW	NOV. 2023
DESIGNED/DETAILED	T. AGUILAR	T. AGUILAR	NOV. 2023
REVISIONS 1		SIGNATURE	
REVISIONS 2		P.E. NUMBER	
REVISIONS 3		DATE	
REVISIONS 4			
FIELD CHANGES			
SHEET NUMBER		PROFILE	
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OF 19			

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2529700	
DEBLOIS BRIDGE NARRAGAGUS RIVER WASHINGTON COUNTY		WIN 025297.00	
DEBLOIS		BRIDGE NO. 3152	
CROSS SECTIONS		BRIDGE PLANS	
PROJ. MANAGER M. PARLIN	BY D. SHAW L. AGUILAR	DATE NOV. 2023 NOV. 2023	SIGNATURE
DESIGN-DETAILED B. BARTLETT	CHECKED-REVIEWED L. AGUILAR	DESIGN-DETAILED	P.E. NUMBER
REVISIONS 1	REVISIONS 2	REVISIONS 3	DATE
REVISIONS 4	FIELD CHANGES		
SHEET NUMBER		5	
OF 19			



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2529700
WIN
025297.00
BRIDGE NO. 3152
BRIDGE PLANS

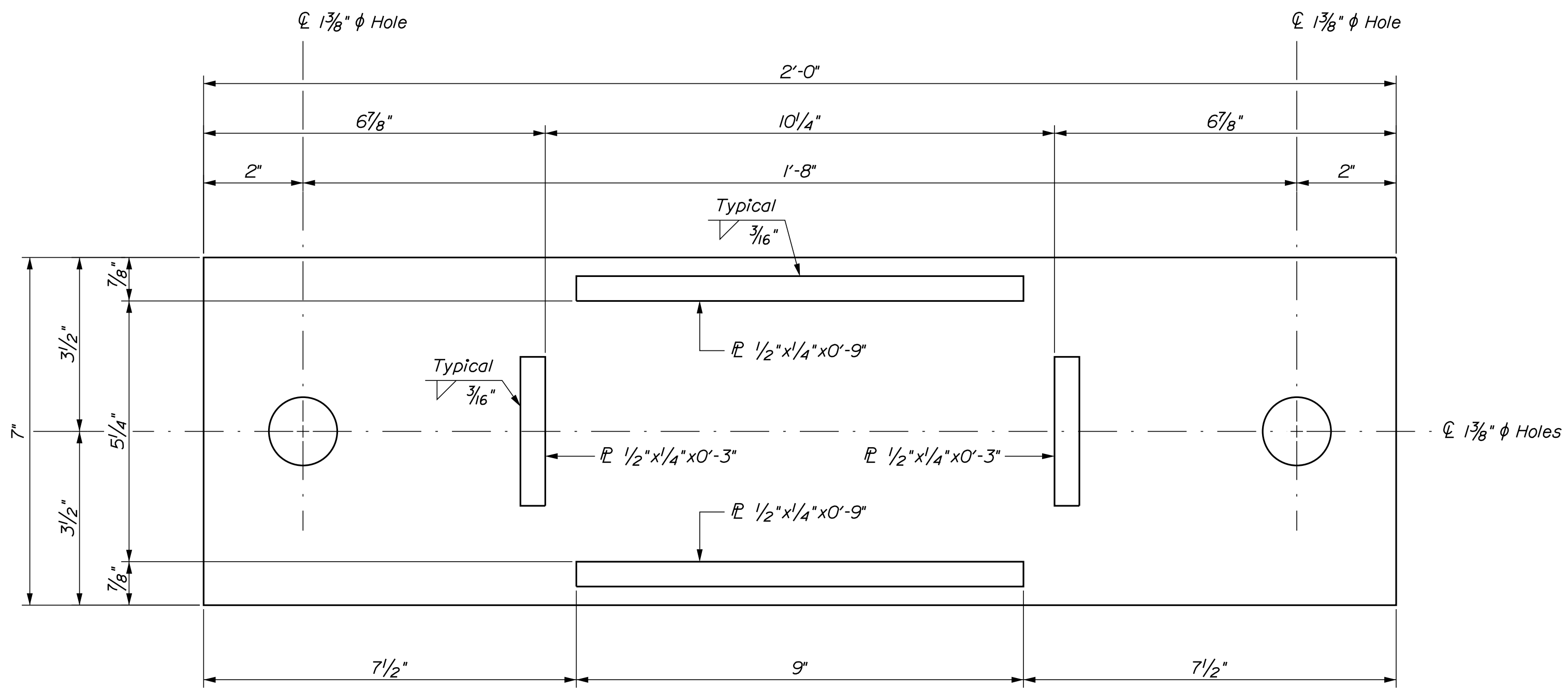
DESIGN-DETAILED	DATE
CHECKED-REVIEWED	BY
DESIGNS-DETAILED	M. PARIN
REVISIONS 1	B. BARTLETT
REVISIONS 2	D. SHAW
REVISIONS 3	L. AGUILAR
REVISIONS 4	NOV. 2023
FIELD CHANGES	NOV. 2023

SIGNATURE
P.E. NUMBER
DATE

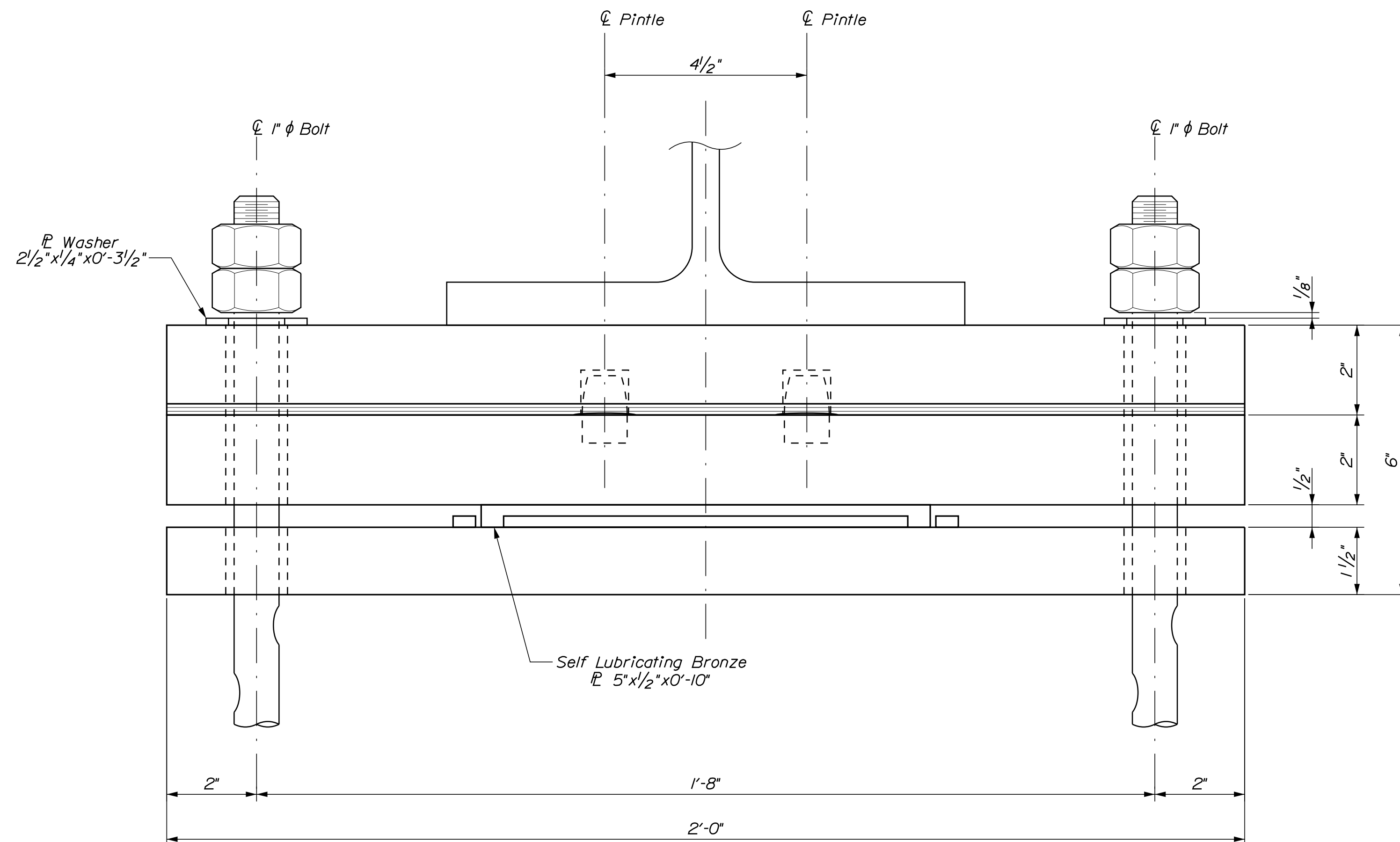
DEBLOIS BRIDGE
NARRAGAGUS RIVER
WASHINGTON COUNTY
DEBLOIS

CROSS SECTIONS

SHEET NUMBER
6
OF 19



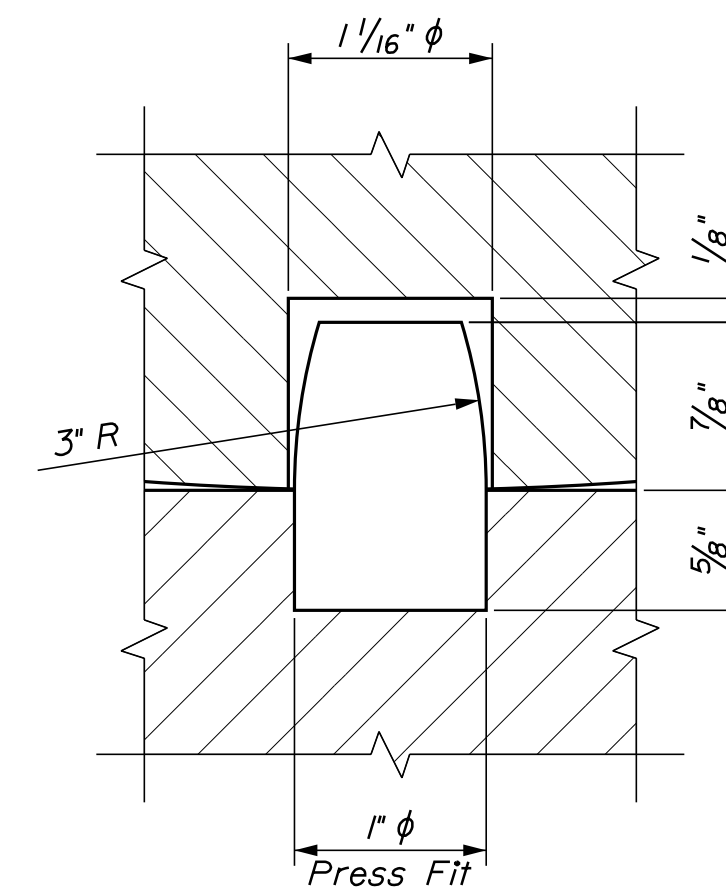
MASONRY PLATE



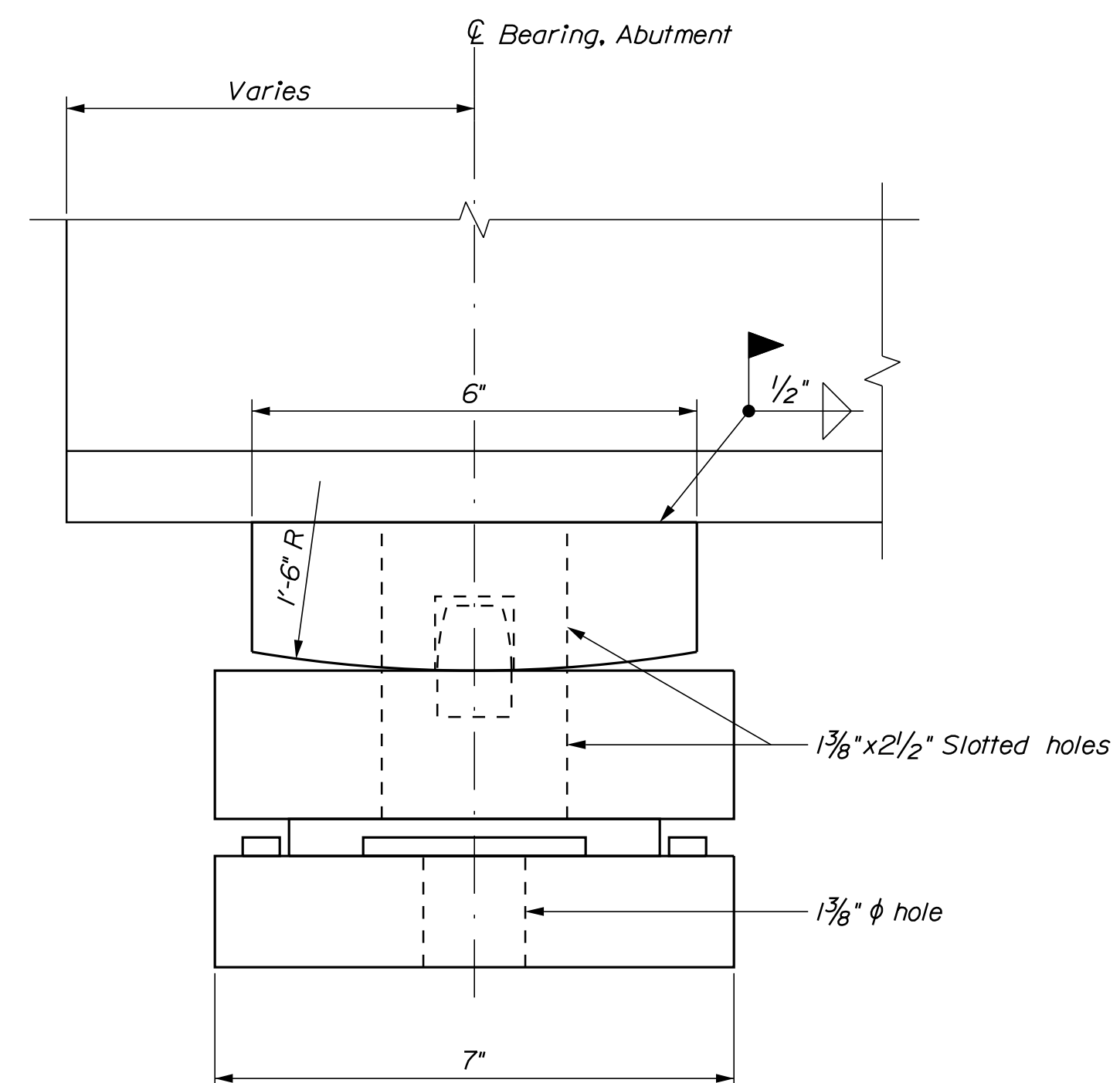
ELEVATION

BEARING NOTES

- Anchor rods shall meet the requirements of ASTM F1554, Grade 55 and shall be swaged on the embedded portion of the rod.
- All anchor rods shall be grouted in place using a material listed on the Maine Department of Transportation Qualified Products List of epoxy and resin based adhesive bonding systems.
- Upset the threads of the anchor rods after assembly.
- Existing steel plate bearings at Abutment No. 1, Abutment No. 2, and Pier shall be removed and replaced, and existing bridge seats shall be cleaned. Existing anchor rods shall be cut flush with bridge seat. Payment for removal and installation of new anchor rods and cleaning the bridge seats, shall be made under Item 523.52 "Bearing Installation".
- All steel for plate bearing assemblies shall conform to ASTM A709, Grade 50 and shall be galvanized after fabrication.



PINTLE DETAIL



SIDE

Username: Benjamin.J.Bartlett Date:12/12/2023

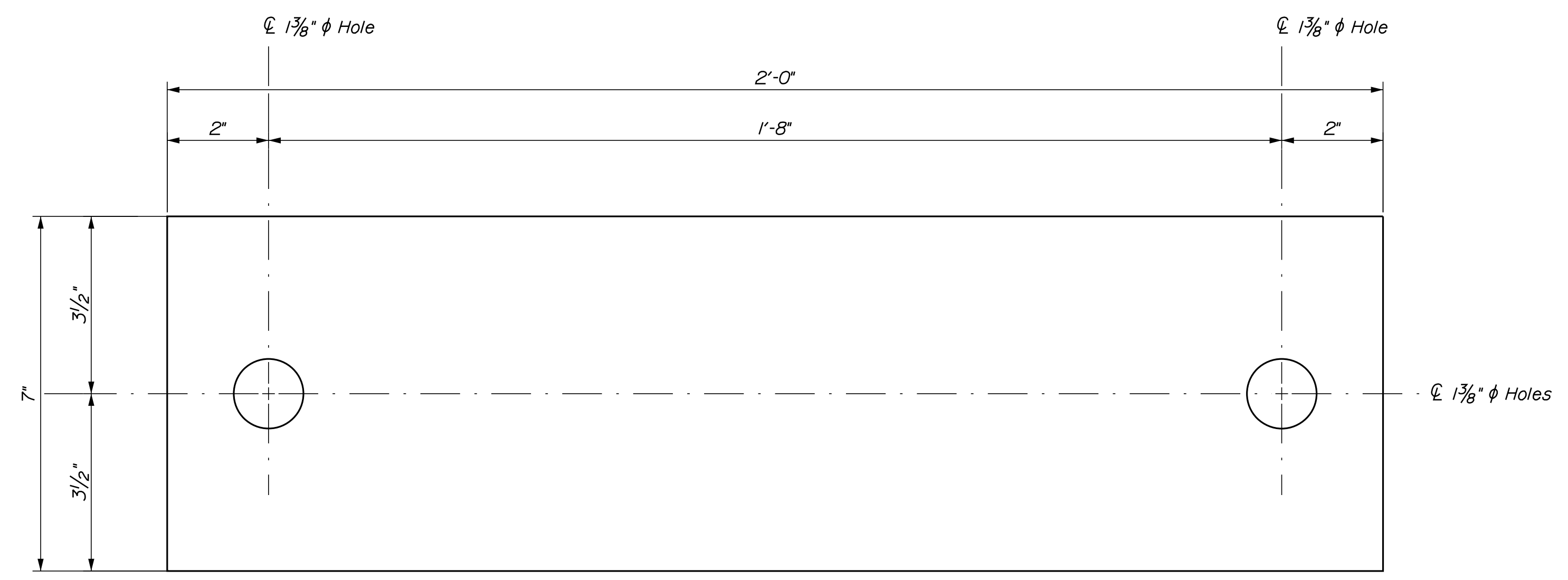
Division: BRIDGE

Filename: ... \011_Expansion_Bearings.dgn

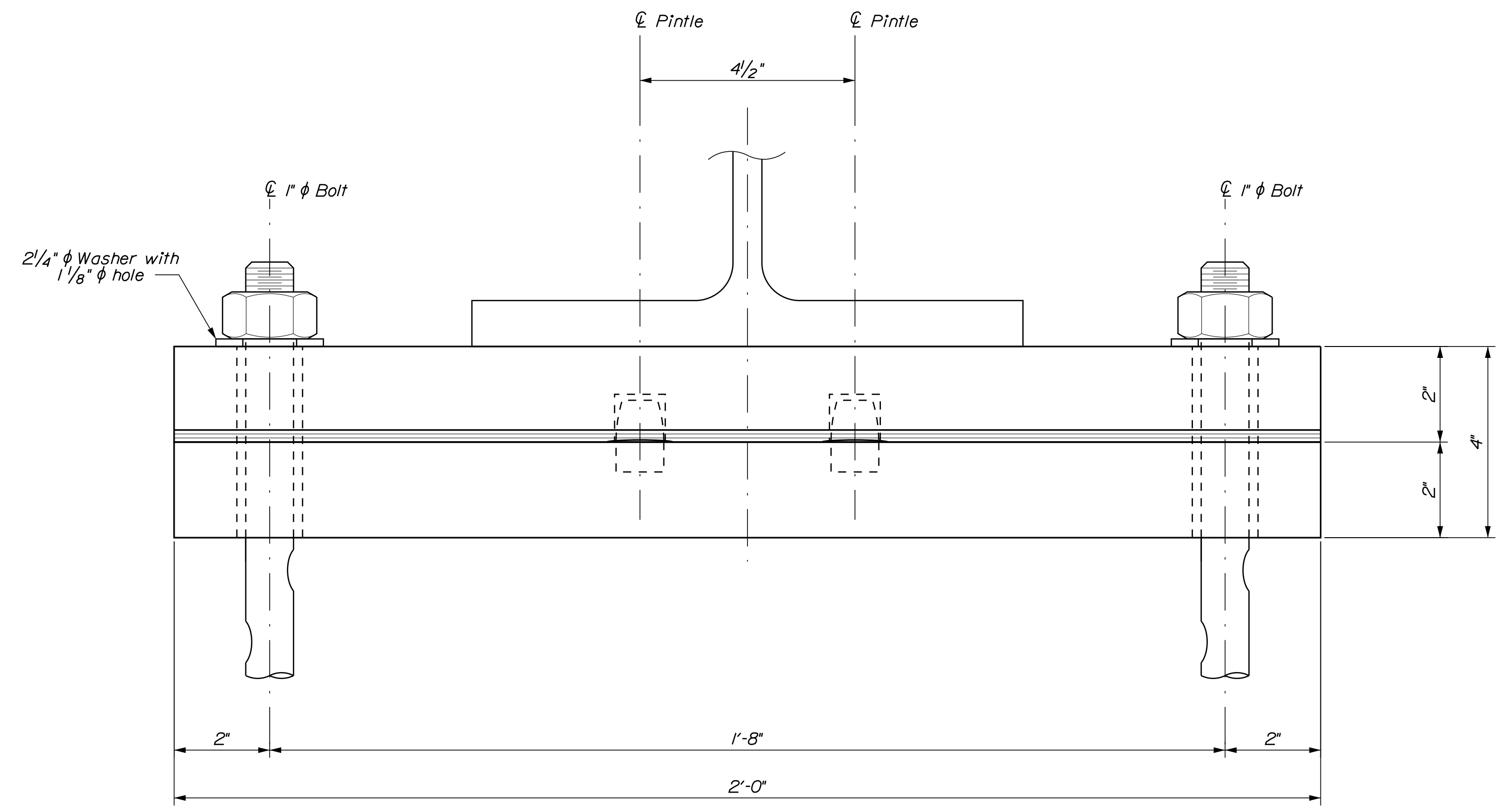
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BRIDGE PLANS	
DEBLOIS BRIDGE		NARRAGUAGUS RIVER		WASHINGTON COUNTY	
DEBLOIS		EXPANSION BEARING		SHEET NUMBER	
2529700		WIN		025297.00	
BRIDGE NO. 3152		DATE		P.E. NUMBER	
M. PARLIN		BY		DATE	
B. BARTLETT		D. SHAW		NOV. 2023	
DESIGN-DETAILED		CHECKED-REVIEWED		SIGNATURE	
DESIGN-DETAILED		T. AGUILAR		NOV. 2023	
REVISIONS 1		REVISIONS 2		REVISIONS 3	
REVISIONS 4		FIELD CHANGES		DATE	

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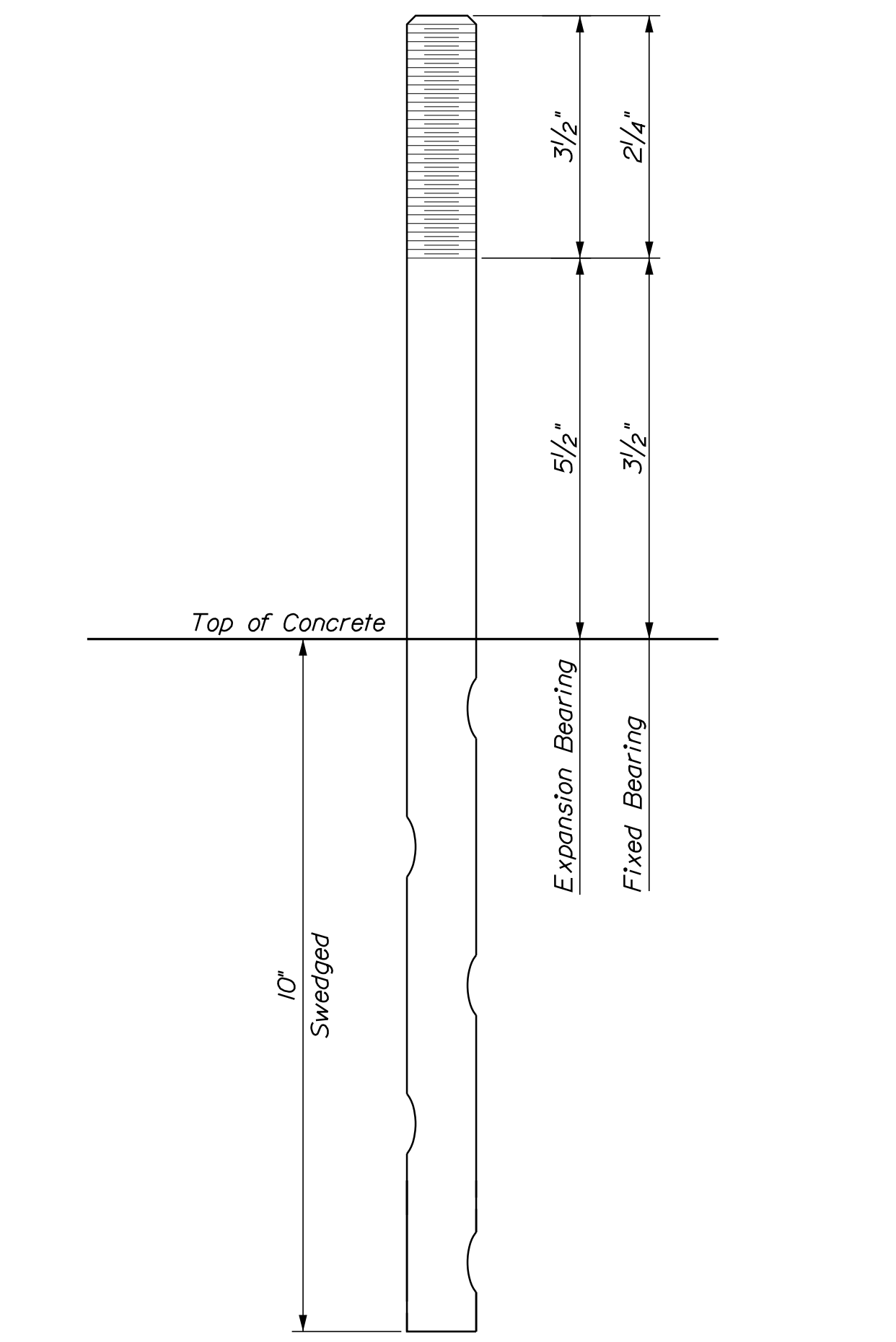
OF 19



MASONRY PLATE

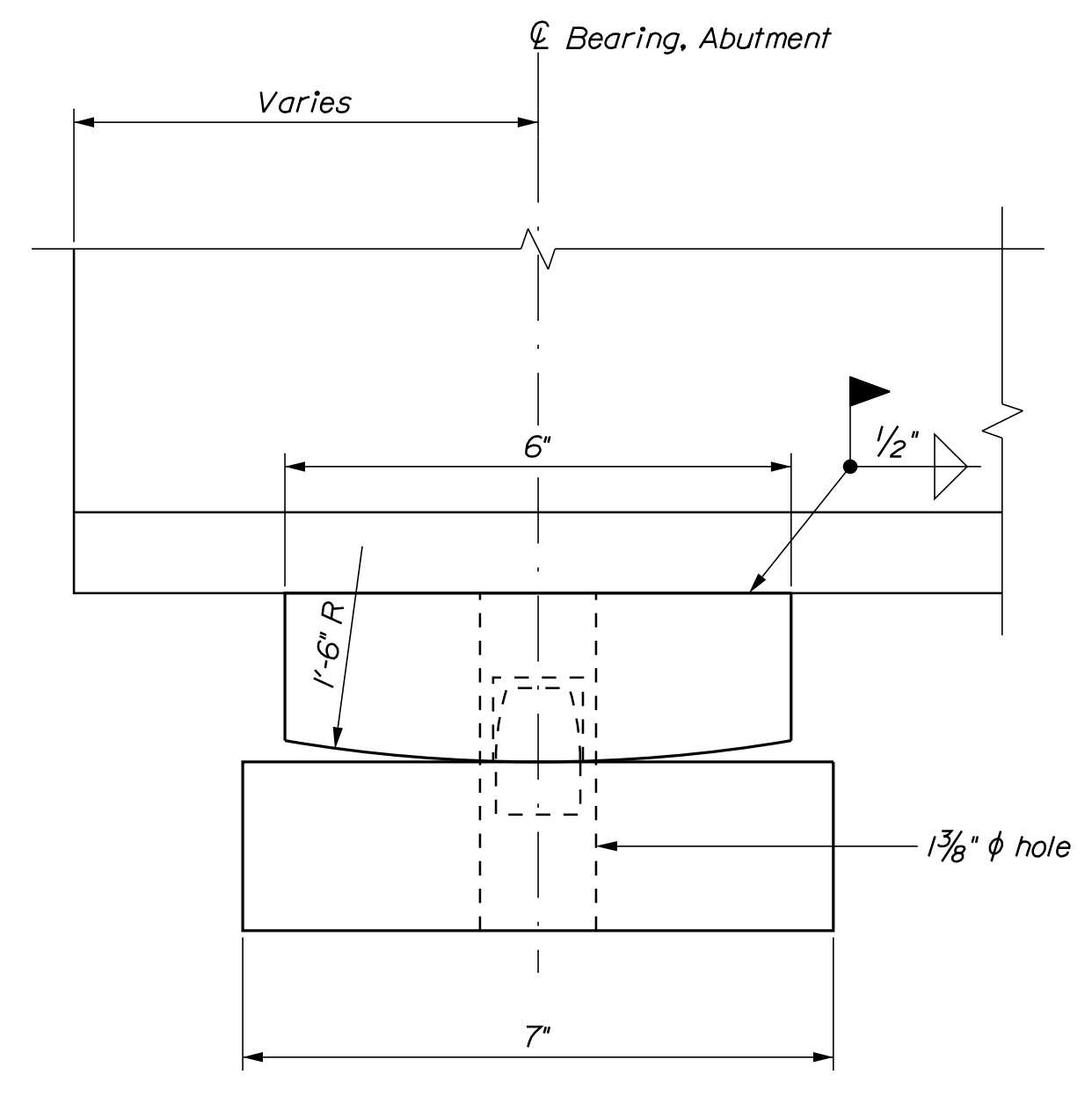


ELEVATION



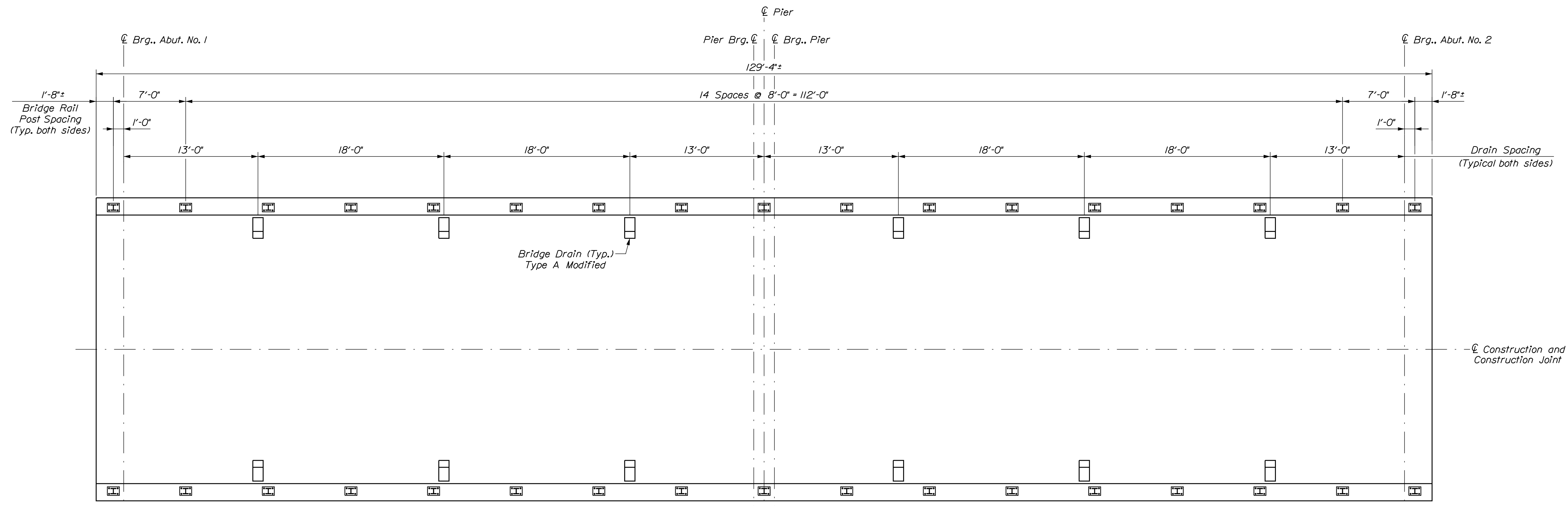
ANCHOR BOLTS

Expansion Bearing - 1" ϕ x 1'-7" with 2 hex. nuts and washer
 Fixed Bearing - 1" ϕ x 1'-3 3/4" with 1 hex. nut and washer

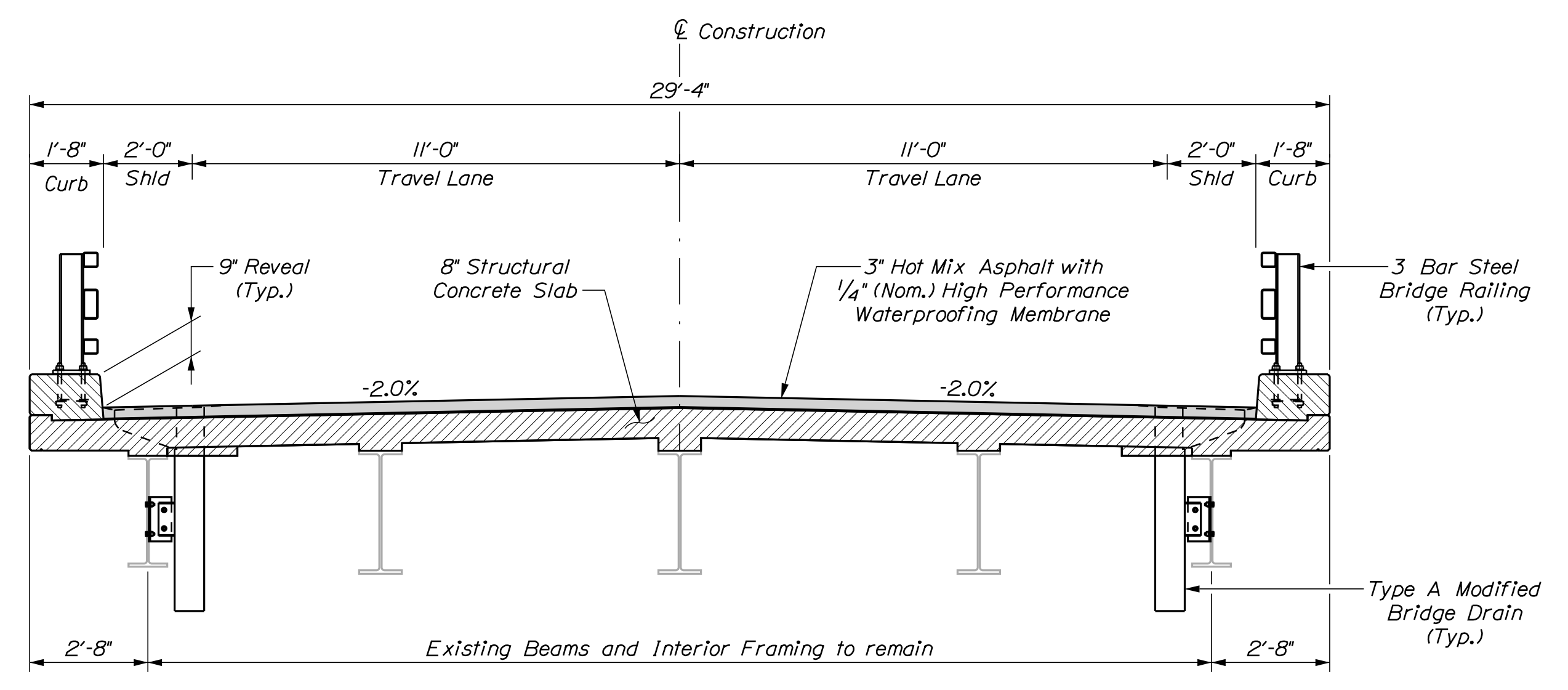


SIDE

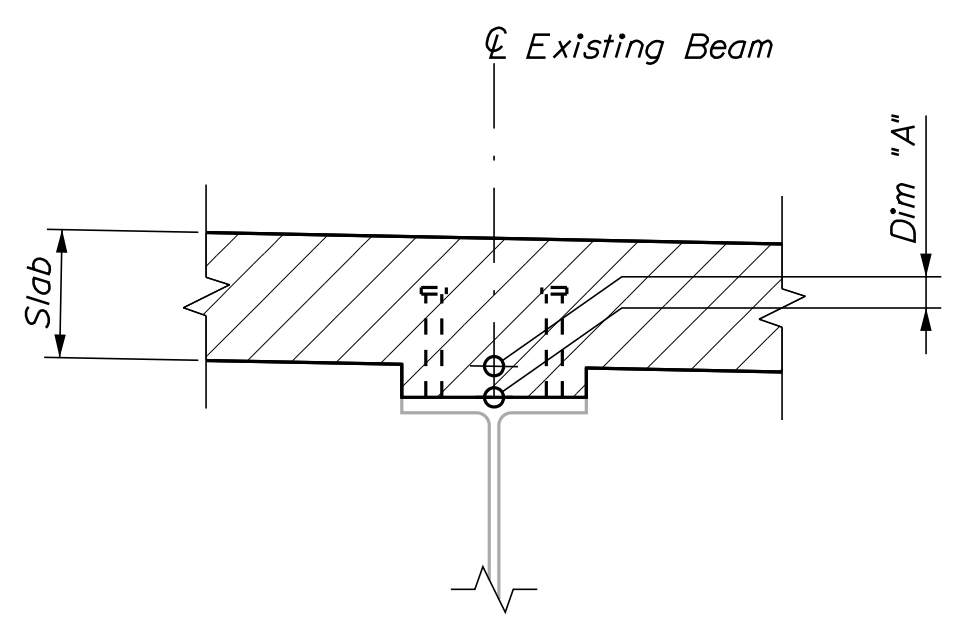
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2529700	
DEBLOIS BRIDGE		NARRAGAGUS RIVER		WASHINGTON COUNTY	
DEBLOIS		FIXED BEARING		SHEET NUMBER	
12		OF 19		BRIDGE NO. 3152	
WIN		025297.00		BRIDGE PLANS	
PROJ. MANAGER	M. PARIN	BY	D. SHAW	DATE	NOV. 2023
CHECKED/REVIEWED	B. BARTLETT	DESIGNED	T. AGUILAR	DATE	NOV. 2023
DESIGNED/REVIEWED		DESIGNED/REVIEWED		SIGNATURE	
REVISIONS 1		REVISIONS 1		P.E. NUMBER	
REVISIONS 2		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 3			
REVISIONS 4		REVISIONS 4			
FIELD CHANGES					



SUPERSTRUCTURE PLAN



PROPOSED TYPICAL BRIDGE SECTION



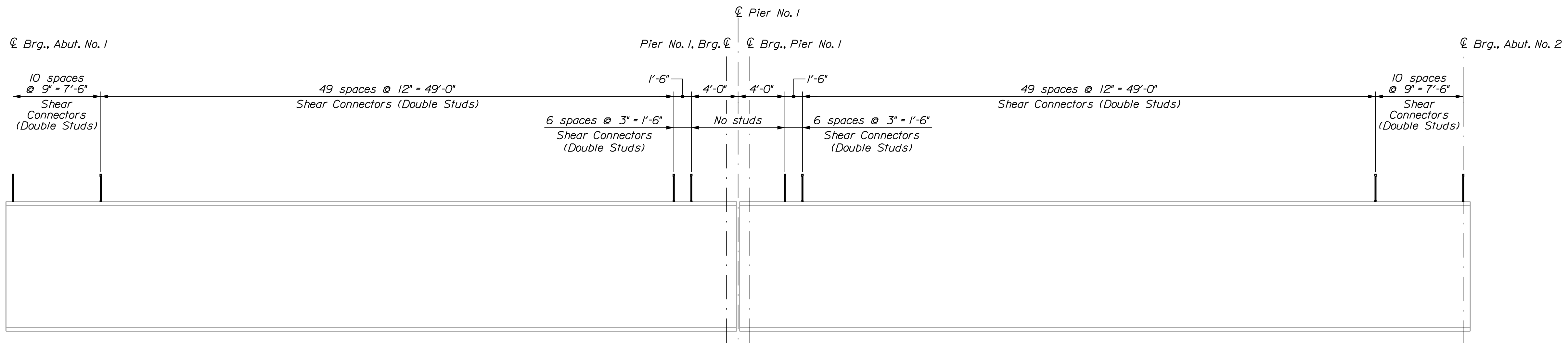
BLOCKING DETAIL

Theoretical Blocking	
Girder	Dim "A"
G1	1 3/4"
G2	2"
G3	3 1/2"
G4	2"
G5	1 3/4"

SUPERSTRUCTURE NOTES

1. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
2. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
3. The superstructure slab concrete shall be placed in one continuous operation and the concrete shall be kept plastic one complete span behind the span being placed.
4. Precast Concrete Deck Panels are not allowed on this project.
5. The Contractor shall alternate splice locations of longitudinal deck reinforcing bars.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2529700	BRIDGE NO. 3152 WIN 025297.00 BRIDGE PLANS
DEBLOIS BRIDGE NARRAGAGUS RIVER WASHINGTON COUNTY DEBLOIS SUPERSTRUCTURE PLAN	SHEET NUMBER 13 OF 19
PROJ. MANAGER: M. PARIN DESIGN/DETAILED: B. BARTLETT CHECKED/REVIEWED: D. SHAW DESIGNS/DETAILED: CASEY V. DUB. REVISIONS 1: T. AGUILAR REVISIONS 2: NOV. 2023 REVISIONS 3: NOV. 2023 REVISIONS 4:	DATE: NOV. 2023 BY: D. SHAW T. AGUILAR SIGNATURE: _____ P.E. NUMBER: _____ DATE: _____

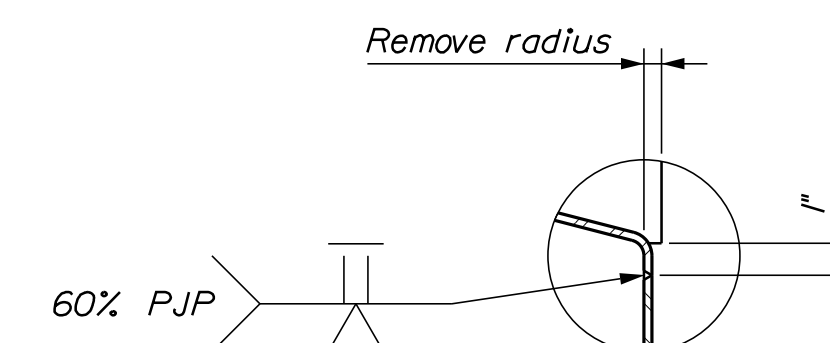
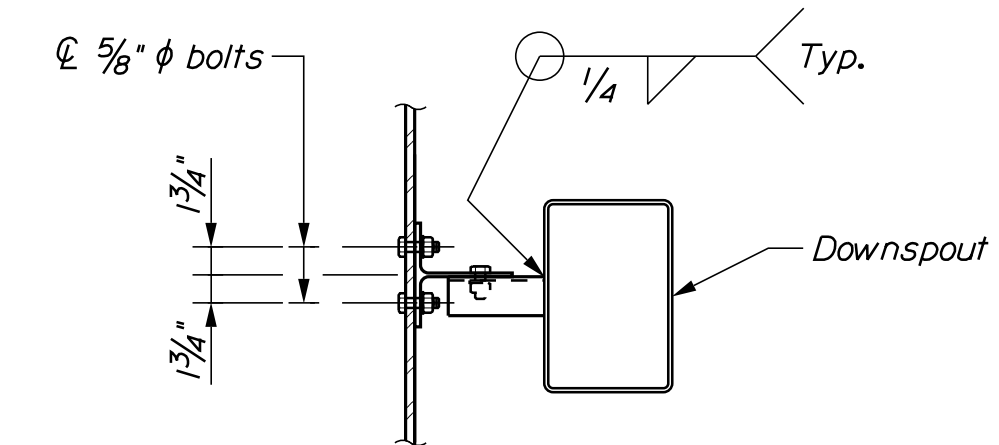
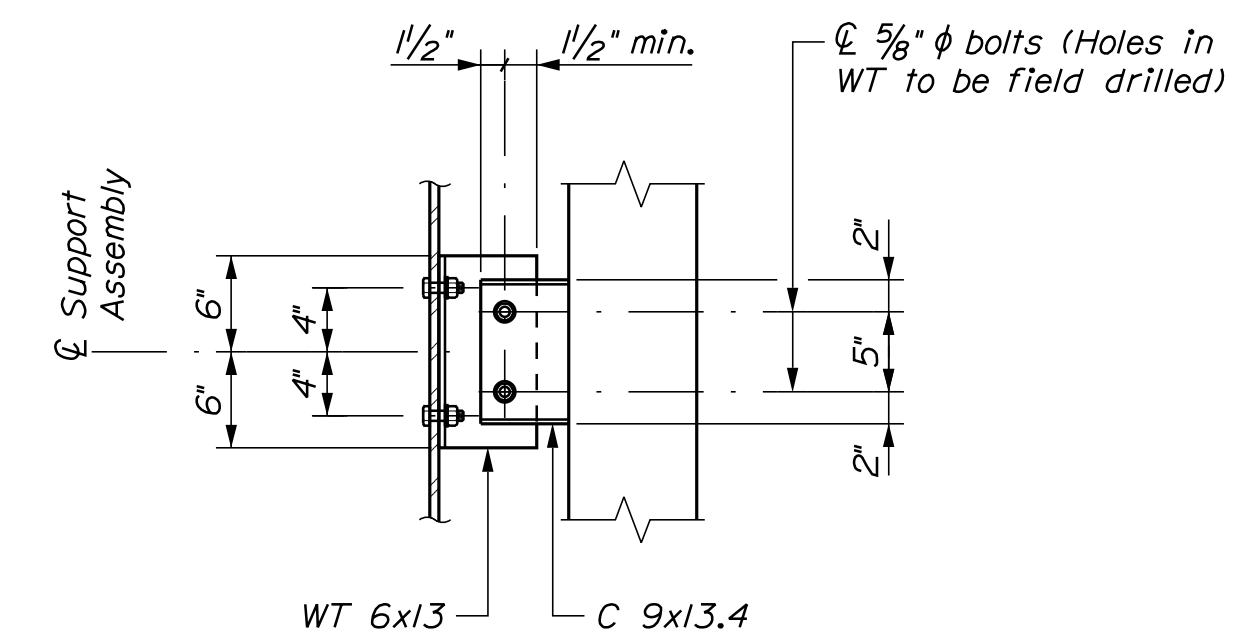
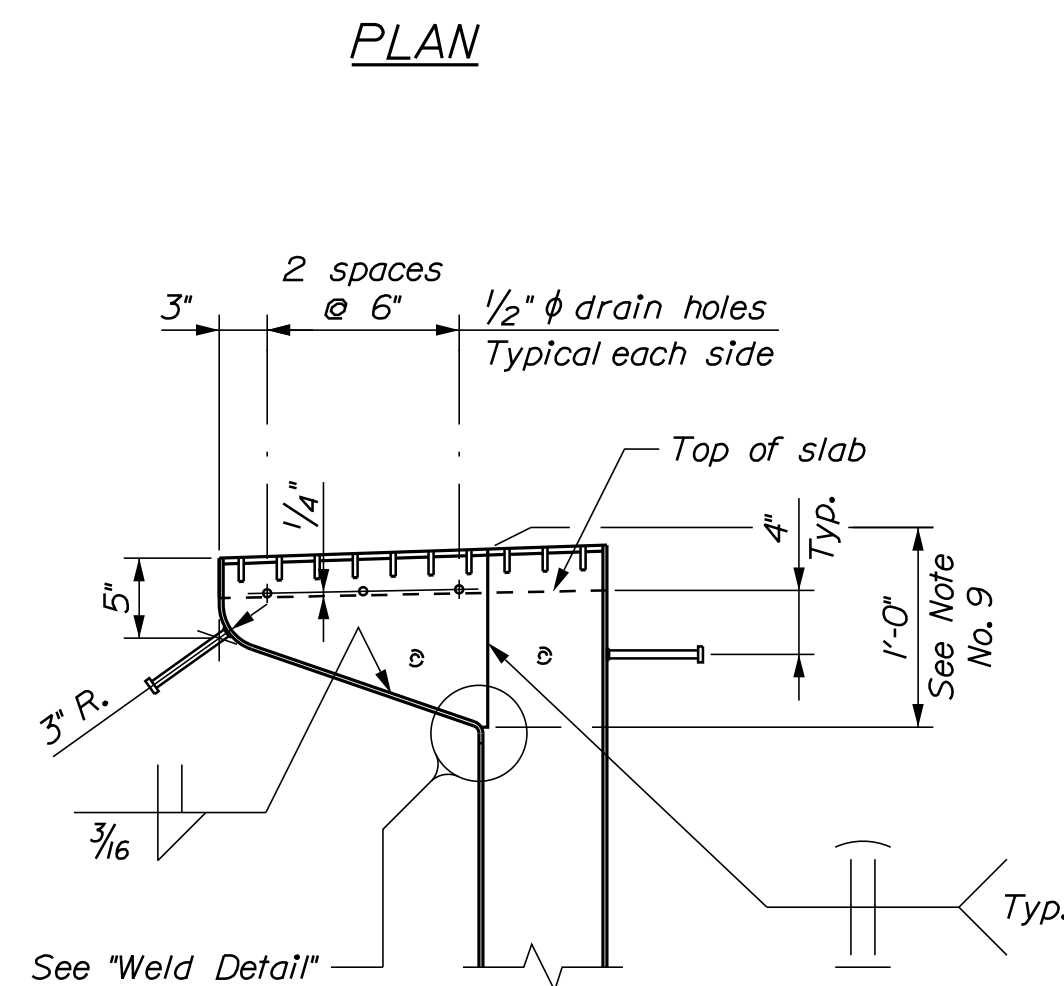
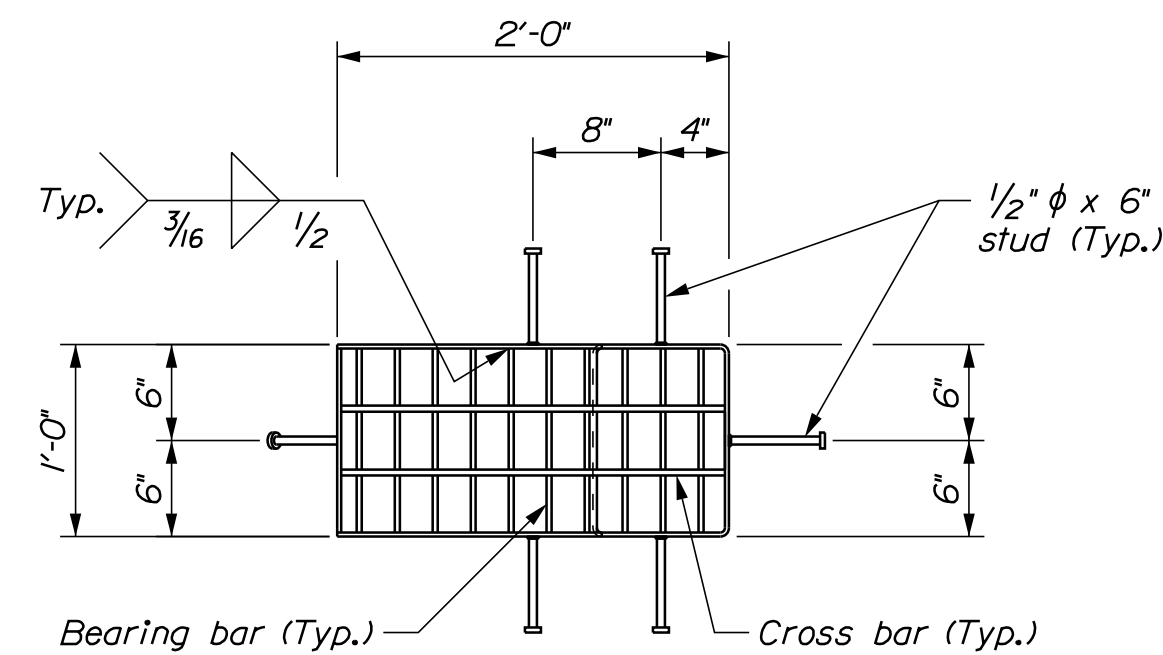
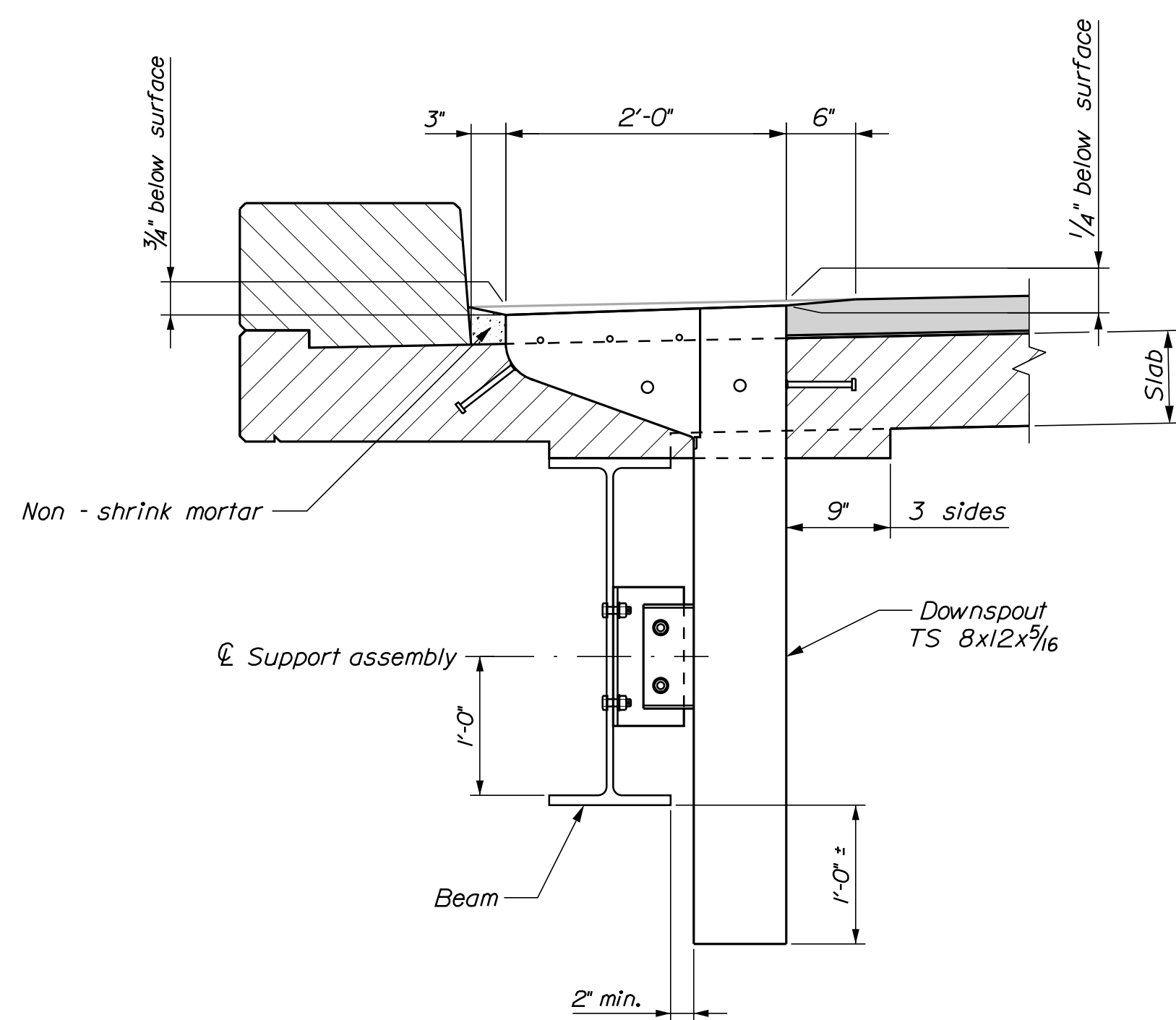


BOTTOM OF SLAB ELEVATION IN FEET - SPAN 1											
Girder	Abut. No. 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	Pier
1	177.62	177.67	177.69	177.71	177.73	177.73	177.73	177.71	177.69	177.67	177.62
2	177.73	177.76	177.77	177.79	177.80	177.80	177.80	177.79	177.77	177.76	177.73
3	177.86	177.90	177.91	177.93	177.94	177.94	177.94	177.93	177.91	177.90	177.86
4	177.73	177.76	177.77	177.79	177.80	177.80	177.80	177.79	177.77	177.76	177.73
5	177.62	177.67	177.69	177.71	177.73	177.73	177.73	177.71	177.69	177.67	177.62

BOTTOM OF SLAB ELEVATION IN FEET - SPAN 2											
Girder	Pier	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	Abut. No. 2
1	177.62	177.67	177.69	177.71	177.73	177.73	177.73	177.71	177.69	177.67	177.62
2	177.73	177.76	177.77	177.79	177.80	177.80	177.80	177.79	177.77	177.76	177.73
3	177.86	177.90	177.91	177.93	177.94	177.94	177.94	177.93	177.91	177.90	177.86
4	177.73	177.76	177.77	177.79	177.80	177.80	177.80	177.79	177.77	177.76	177.73
5	177.62	177.67	177.69	177.71	177.73	177.73	177.73	177.71	177.69	177.67	177.62

STRUCTURAL STEEL NOTES

1. Prior to installing the proposed shear connectors, 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 the proposed shear connectors shall be incidental to item 505.08 Shear Connectors. If lead paint is encountered while cleaning the top flanges, the Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste. See General Notes for more information.

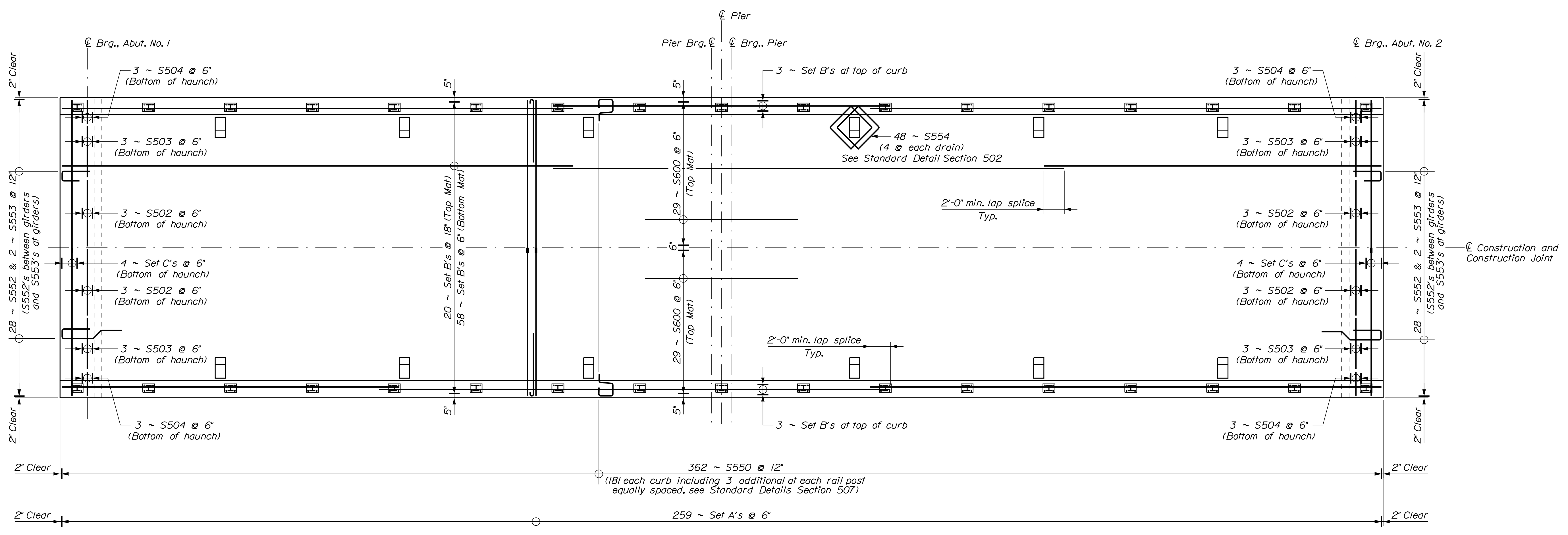


PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
M. PARLIN	D. SHAW	NOV. 2023			
DESIGN DETAILED	B. BARTLETT	NOV. 2023			
CHECKED/REVIEWED	CASEY V. DUB.	NOV. 2023			
DESIGN DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

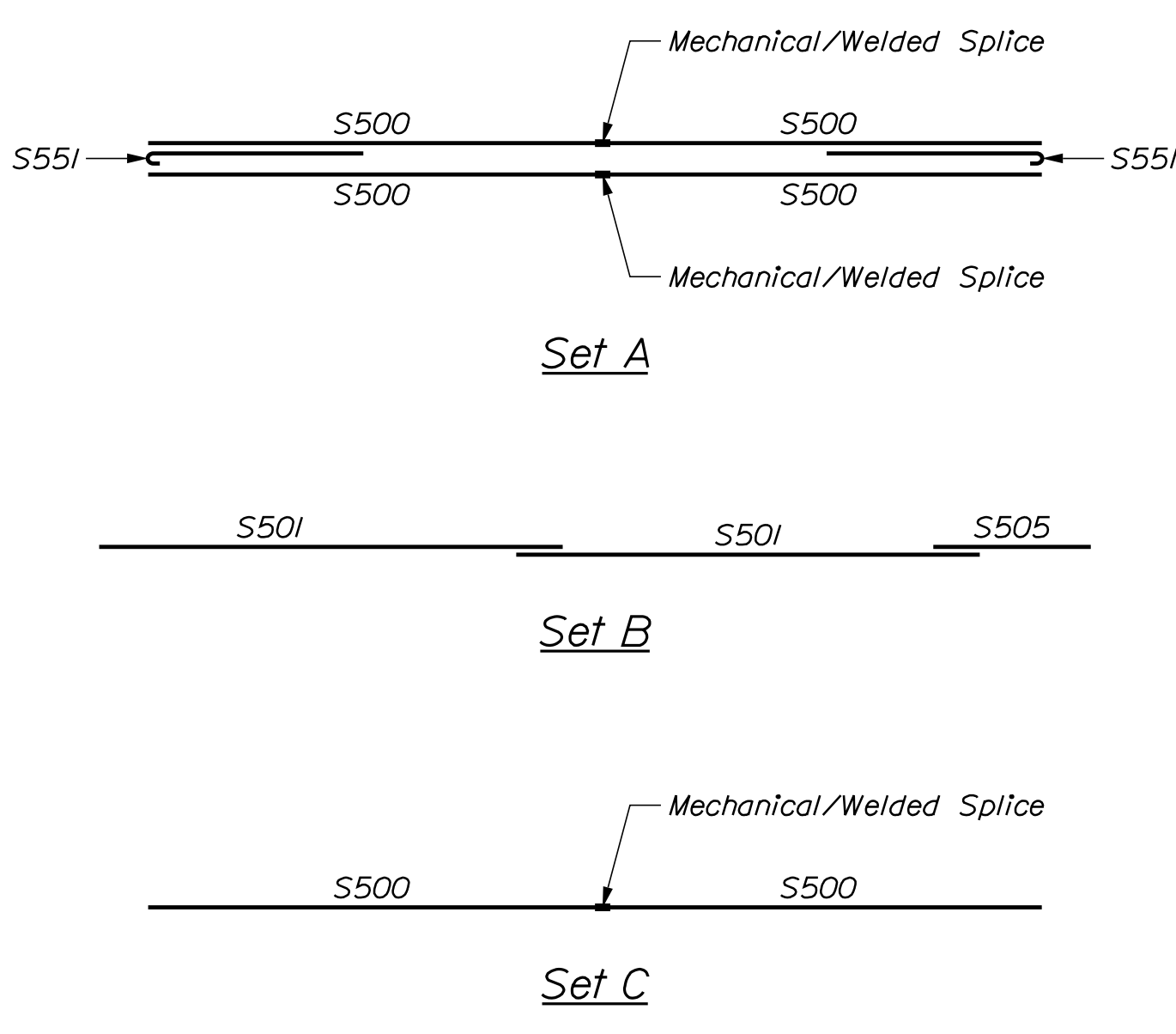
Username: Benjamin.J.Bartlett Date:12/12/2023

Division: BRIDGE

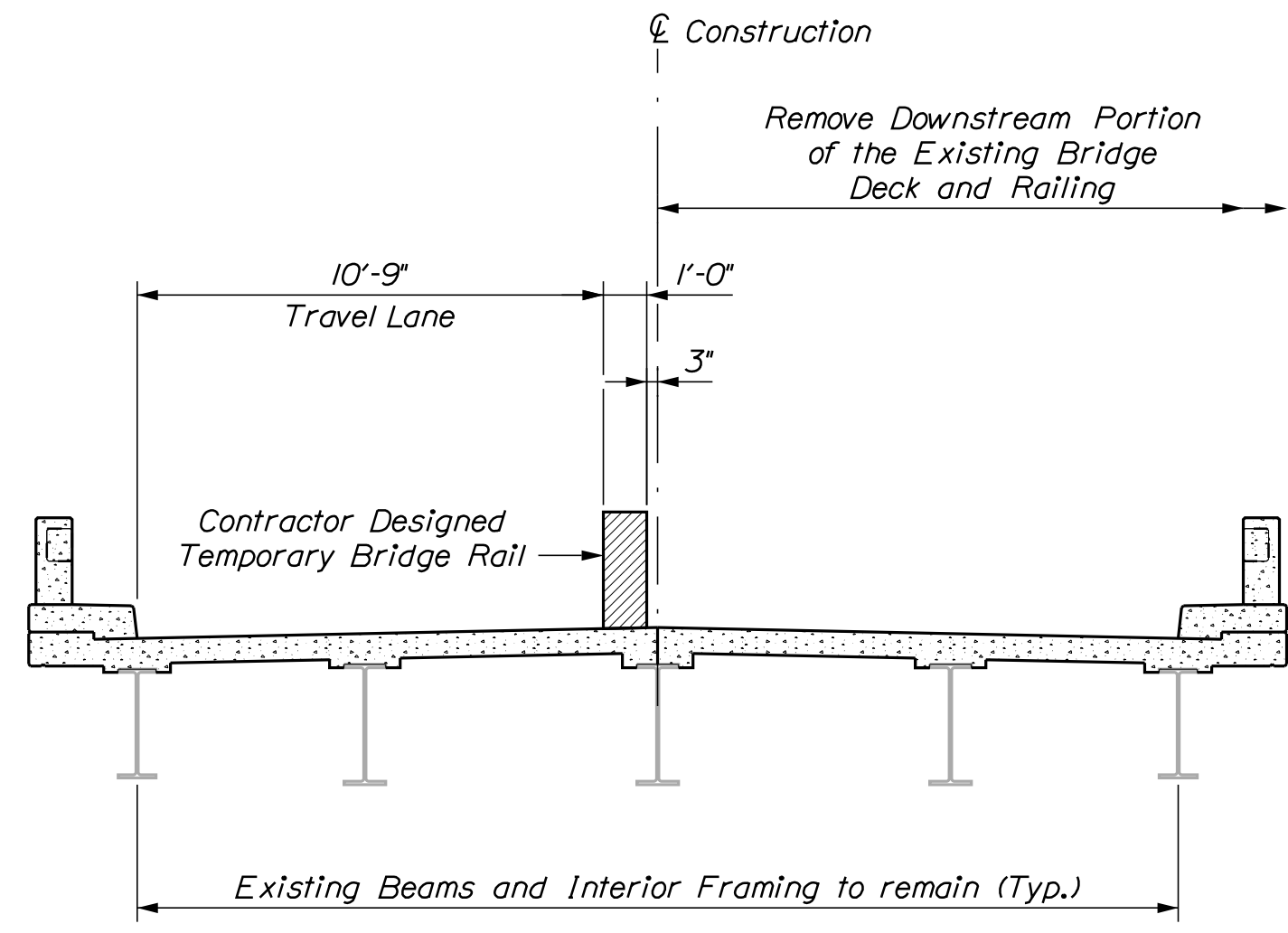
Filename: ... \015_SuperstructureRebar.dgn



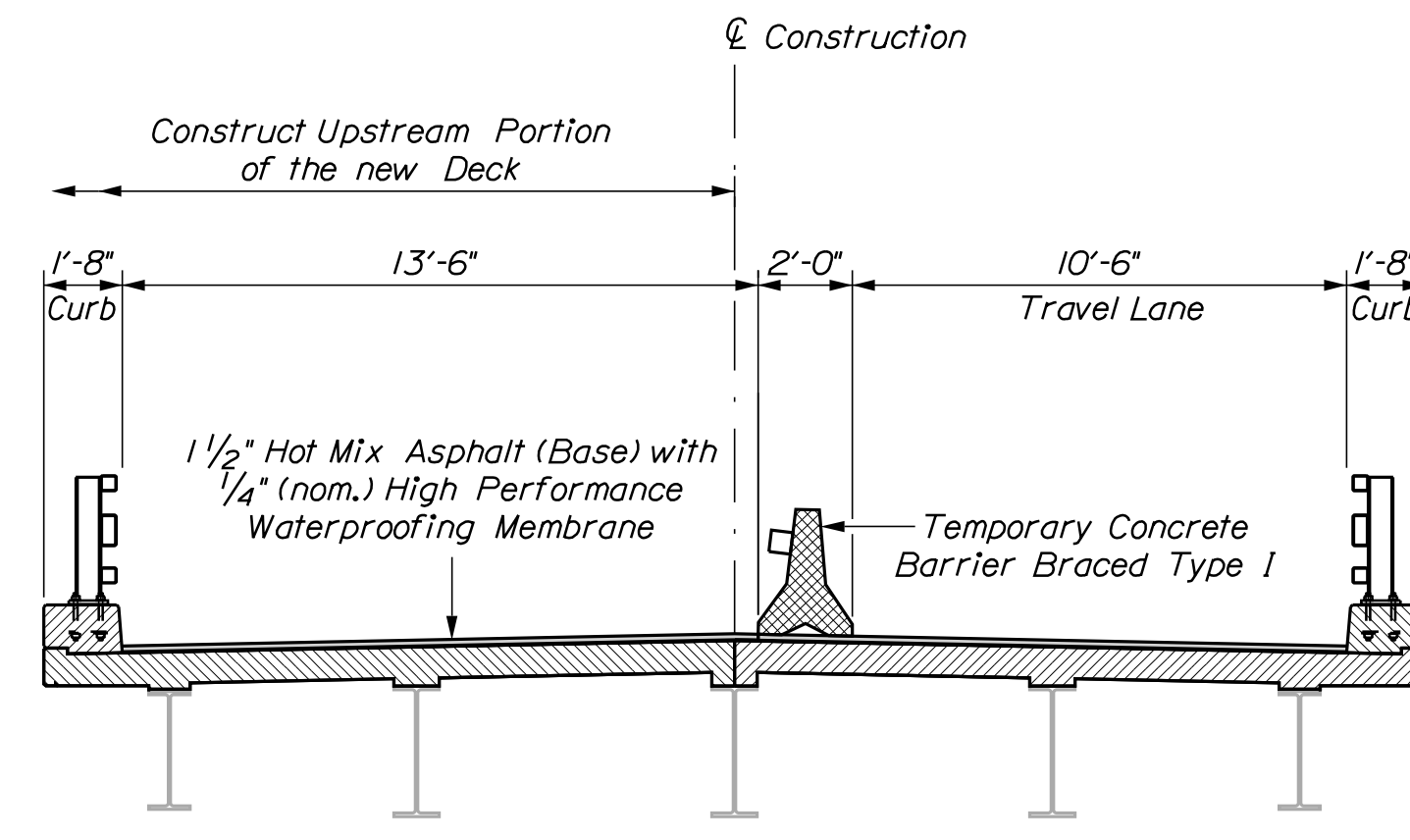
SUPERSTRUCTURE PLAN



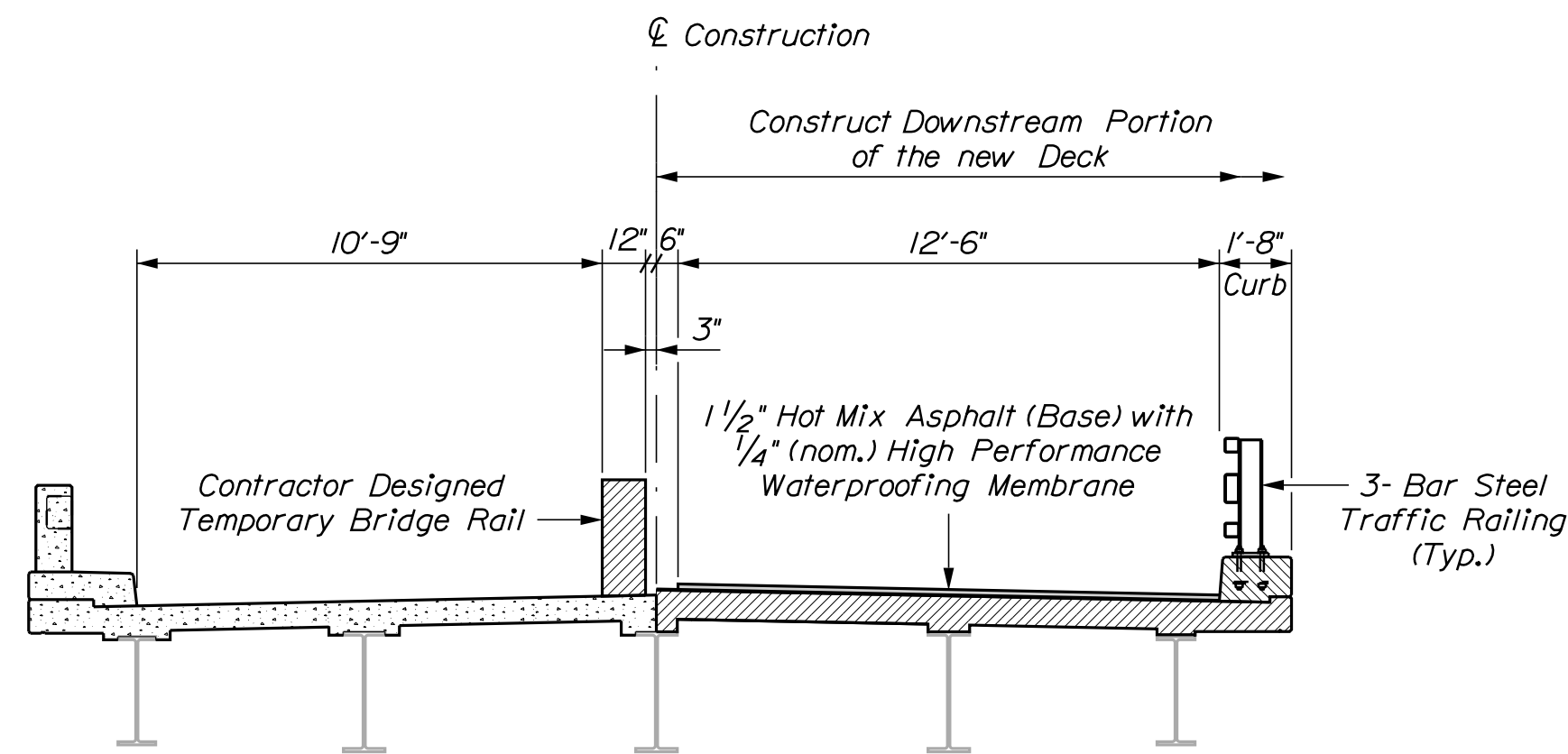
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2529700	
DEBLOIS BRIDGE NARRAGUAGUS RIVER WASHINGTON COUNTY		WIN 025297.00	
DEBLOIS SUPERSTRUCTURE REINFORCEMENT		BRIDGE NO. 3152 BRIDGE PLANS	
PROJ. MANAGER	M. PARIN	DATE	NOV. 2023
DESIGN/DETAILED	B. BARTLETT	BY	D. SHAW
CHECKED/REVIEWED	CASEY V.D.B.	DATE	NOV. 2023
DESIGN/DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SHEET NUMBER		15	
		OF 19	



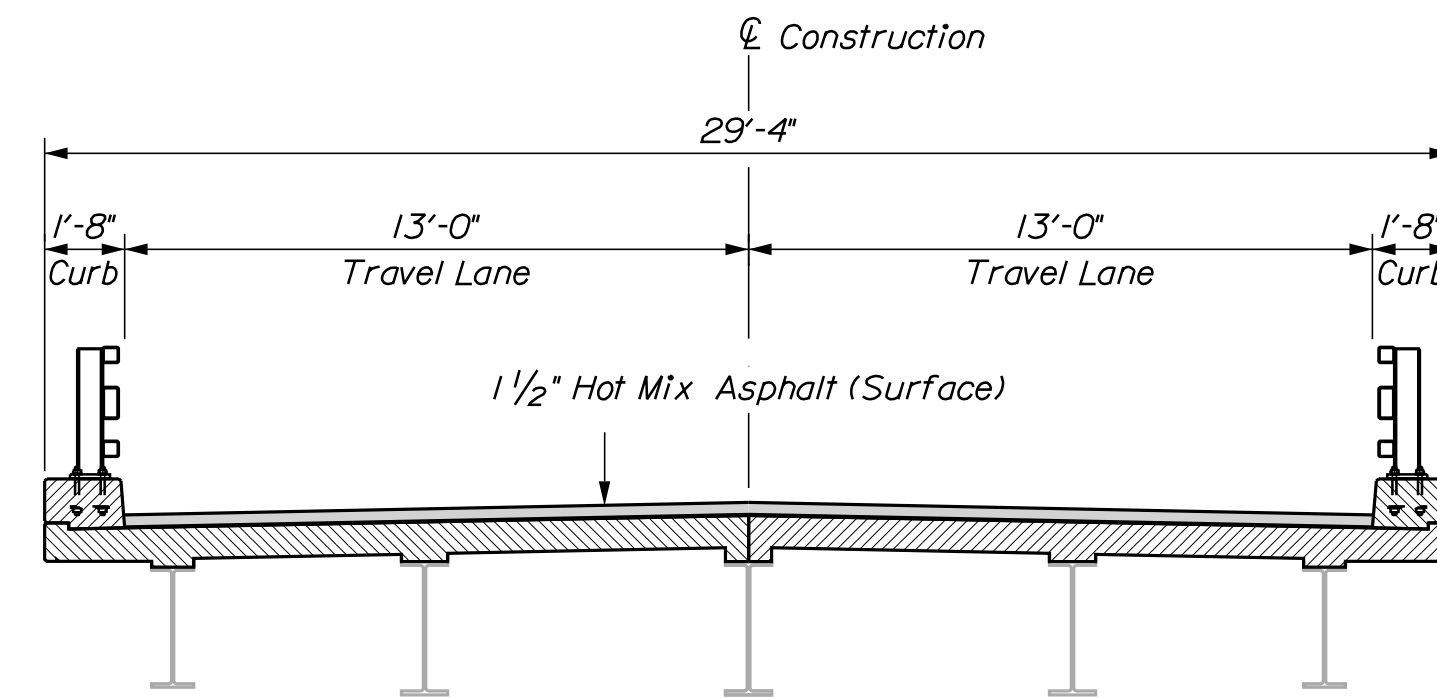
STAGE I



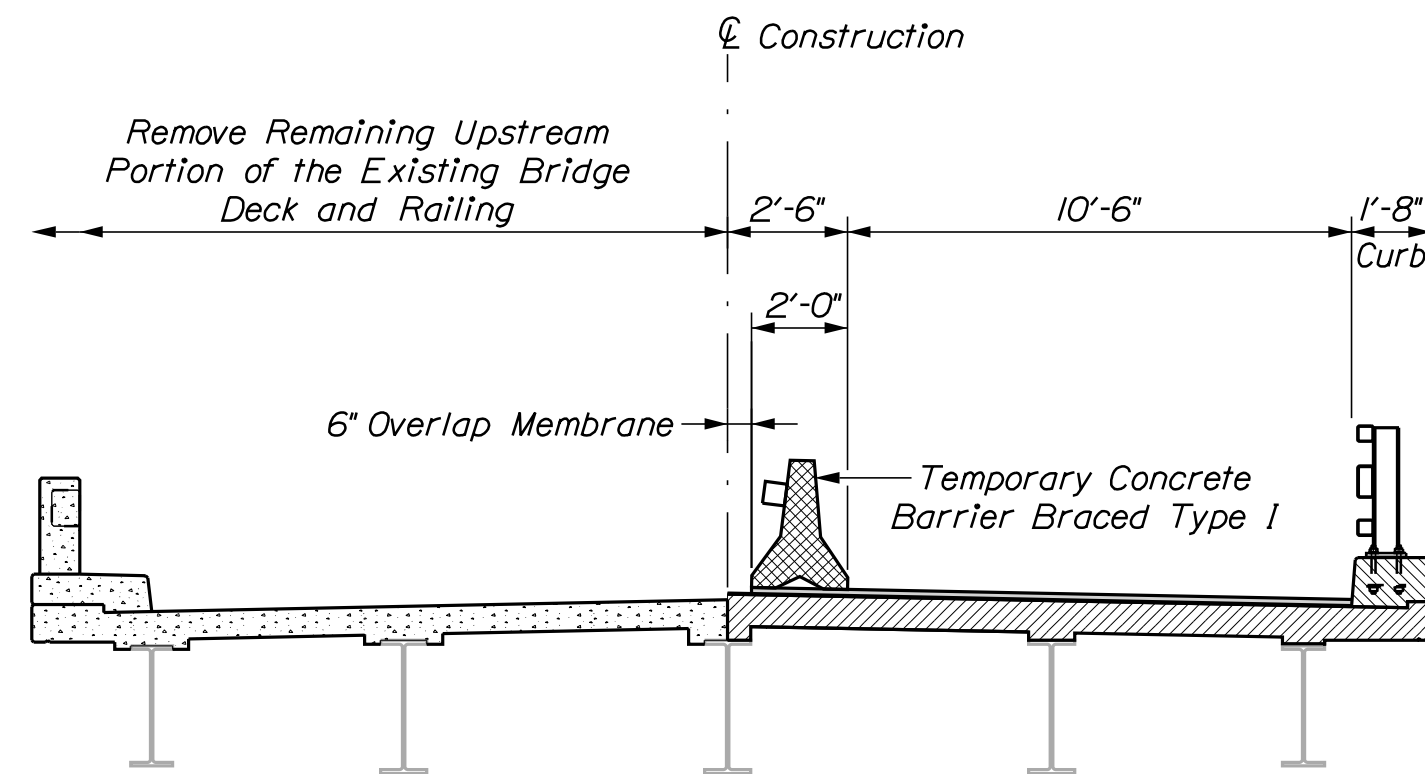
STAGE IV



STAGE II



STAGE V
Completed Bridge

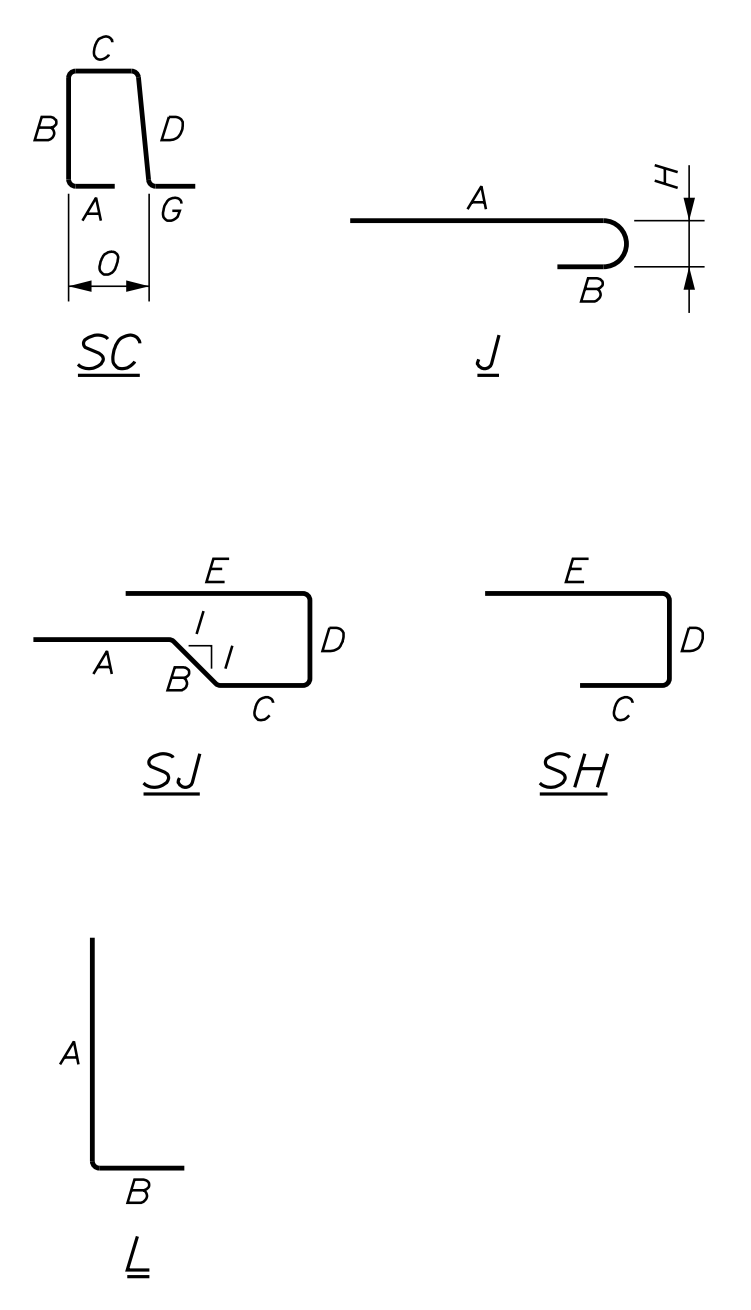


STAGE III

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2529700		WIN		025297.00		BRIDGE NO. 3152		BRIDGE PLANS	
DEBLOIS BRIDGE		NARRAGUAGUS RIVER		WASHINGTON COUNTY		STAGED CONSTRUCTION PLAN		SHEET NUMBER		17		OF 19	
PROJ. MANAGER	M. PARLIN	BY	D. SHAW	DATE	NOV. 2023	CHECKED/REVIEWED	B. BARTLETT	SIGNATURE		P.E. NUMBER		DATE	
DESIGN/DETAILED			T. AQUILAR		NOV. 2023	DESIGN/DETAILED							
DESIGN/DETAILED						REVISIONS 1							
						REVISIONS 2							
						REVISIONS 3							
						REVISIONS 4							
						FIELD CHANGES							

STRAIGHT BARS				BENT BARS																			
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION	
SUPERSTRUCTURE				SUPERSTRUCTURE																			
S500	1052	14'-5 1/2"	Deck					S550	362	5'-8 1/4"	SC	10"	1'-4 3/4"	1'-3"	1'-4 1/2"			10"				1'-3 1/2"	Superstructure Curb
S501	168	50'-0"	Deck					S551	518	6'-9"	J	6'-2"	7"							5"			Superstructure Fascia
S502	12	6'-6"	Haunch					S552	56	9'-9 3/4"	SJ	2'-3"	1'-3 1/4"	3'-1"	11 1/2"	2'-3"							Superstructure Haunch
S503	12	5'-0"	Haunch					S553	4	3'-11 1/2"	SH			1'-9"	11 1/2"	2'-3"							Superstructure Haunch
S504	12	2'-4"	Haunch					S554	48	6'-0"	L	3'-0"	3'-0"										Bridge Drain
S505	84	33'-0"	Deck																				
S600	58	15'-0"	Deck above Pier																				

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.
 Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.
 Plain Reinforcing Steel: ASTM A 615, Grade 60
 Stainless Steel Reinforcing: ASTM A955, Grade 75
 Glass Fiber Reinforced Polymer: ASTM D7957
 Low-Carbon Chromium Steel: ASTM A1035, Type CS, Grade 100

GENERAL NOTES

- The first digit(s) following the letter(s) of the mark indicate the size of the bar:
 Mark "A502" = bar size #5
 Mark "P805" = bar size #8
 Mark "S650" = bar size #6
 Mark "P1404" = bar size #14
 - The lower case letter following the bar number indicates the material of the bar.
 "A500b", b = (Black) Plain Steel
 "A550s", s = Stainless Steel
 "S500p", p = Glass Fiber Reinforced Polymer
 "P510c", c = Low-Carbon Chromium Steel
- X. All reinforcement bars shall be Stainless Steel except in the approach slabs. Approach slab reinforcement will be Plain Reinforcing Steel.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2529700 WIN 02529700 BRIDGE NO. 3152 BRIDGE PLANS
DESIGNER: M. PARLIN CHECKED: B. BARTLETT DESIGNED: B. BARTLETT REVISIONS: 1 REVISIONS: 2 REVISIONS: 3 REVISIONS: 4 FIELD CHANGES
PROJECT: DEBLOIS BRIDGE LOCATION: NARRAGAGUS RIVER COUNTY: WASHINGTON COUNTY DEBLOIS REINFORCING STEEL SCHEDULE
SHEET NUMBER <h1 style="font-size: 2em;">18</h1> OF 19

