

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



### SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition 2017.

### DESIGN LOADING

Live Load ..... HL - 93 Modified for Strength I

### TRAFFIC DATA

Current (2019) AADT ..... 2640  
 Future (2039) AADT ..... 3170  
 DHV - % of AADT ..... 10  
 Design Hour Volume ..... 317  
 Heavy Trucks (% of AADT) ..... 5  
 Heavy Trucks (% of DHV) ..... 4  
 Directional Distribution (% of DHV) ..... 53  
 18 kip Equivalent P 2.0 ..... 45  
 18 kip Equivalent P 2.5 ..... 42  
 Design Speed (mph) ..... 40

### HYDROLOGIC DATA

Drainage Area ..... 9.10 sq mi  
 Design Discharge (Q50) ..... 823.60 cfs  
 Check Discharge (Q100) ..... 965.4 cfs  
 Headwater Elevation (Q1.1) ..... 45.85 ft  
 Headwater Elevation (Q25) ..... 50.68 ft  
 Headwater Elevation (Q50) ..... 51.66 ft  
 Headwater Elevation (Q100) ..... 52.57 ft  
 Discharge Velocity (Q1.1) ..... 6.72 fps  
 Discharge Velocity (Q50) ..... 11.86 fps  
 Discharge Velocity (Q100) ..... 12.50 fps

### MATERIALS

Concrete ..... Class "A"  
 Reinforcing Steel ..... ASTM A 615/A 615M, Grade 60

### BASIC DESIGN STRESSES

Concrete ..... f 'c = 4000 psi  
 Reinforcing Steel ..... f y = 60,000 psi

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## WELLS-KENNEBUNK YORK COUNTY BRANCH BROOK BRIDGE OVER BRANCH BROOK BRANCH RD \ HIGH ST FEDERAL PROJECT NO. 2318800 PROJECT LENGTH 0.000 mi. BRIDGE NO. 3091

### UTILITIES

Spectrum  
 Consolidated Communications  
 Kennebunk and Kennebunkport Lights and Power  
 Kennebunk, Kennebunkport & Wells Water District

### MAINTENANCE OF TRAFFIC

Maintain one-way alternating traffic using flaggers, as allowed, during daylight working hours. Two-way traffic will be maintained during non-working hours.

<u>PROJECT LOCATION</u>	Rout 9A (Branch Brook Rd and High St) located on the Kennebunk-Wells T/L. Lat./Long. 43°22'45.18" N 70°35'00.0" W
<u>PROGRAM AREA</u>	Highway Bridges - Traditional
<u>OUTLINE OF WORK</u>	Bridge Culvert Rehabilitation

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
DATE
COMMISSIONER: <i>[Signature]</i>
12-21-23
CHIEF ENGINEER: <i>[Signature]</i>
12-21-2023

SIGNATURE
13553
P.E. NUMBER
12-14-23
DATE
PROFESSIONAL ENGINEER
13853
GUSTAFSON
A
GARRETT
STATE OF MAINE

PROJECT INFORMATION
PROGRAM
BRIDGE PROGRAM
PROJECT MANAGER
BRIAN NICHOLS
DESIGNER
JACOB PAUL
CONSULTANT
PROJECT RESIDENT
CONTRACTOR
PROJECT COMPLETION DATE

WIN 23188.00

2318800

WELLS-KENNEBUNK  
BRANCH BROOK BRIDGE  
TITLE SHEET

SHEET NUMBER  
**1**  
OF 7

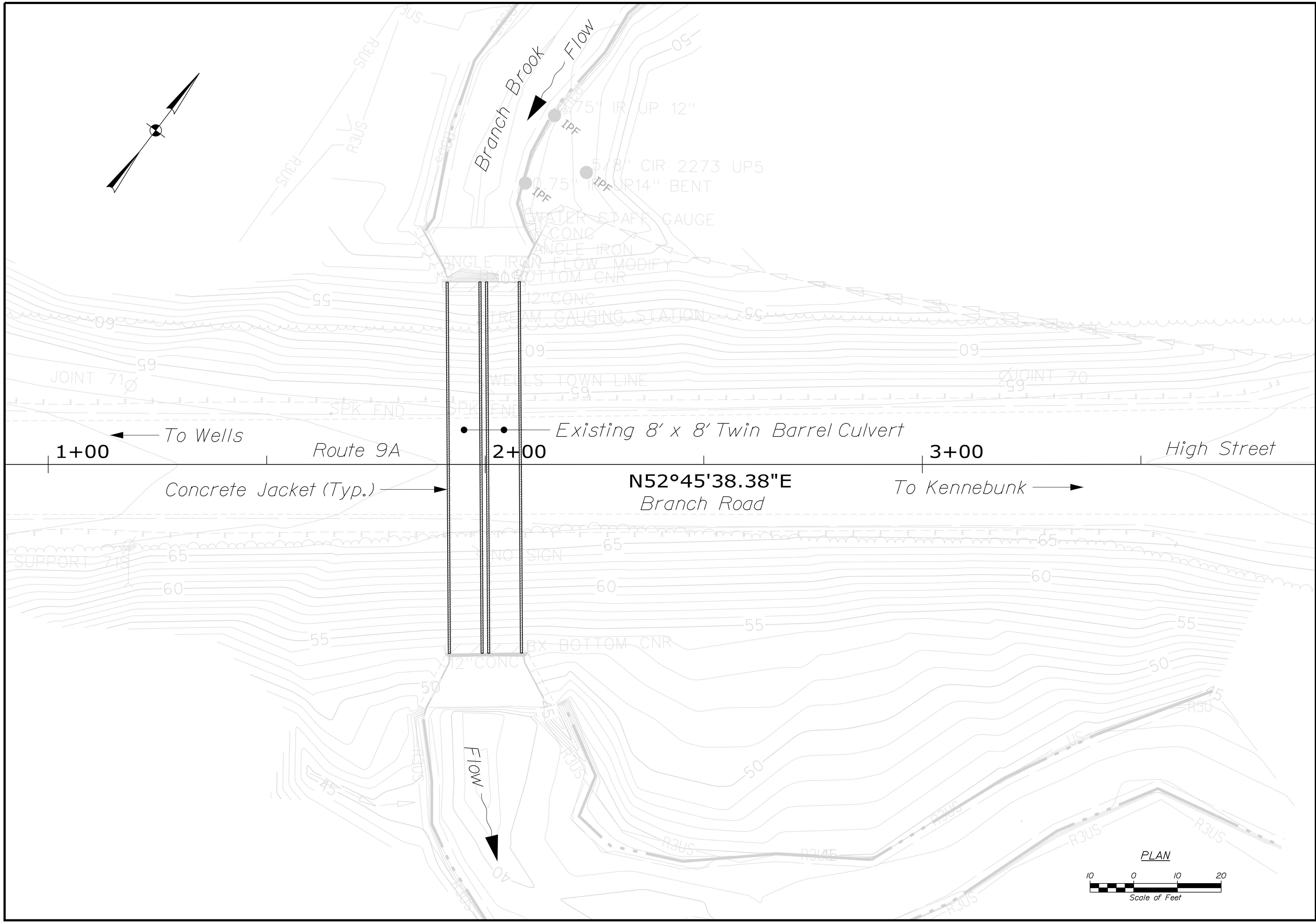
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Username: Brian.Nichols

Division: BRIDGE

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STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
**2318800**  
 WIN  
 23188.00  
 BRIDGE NO. 3091  
 BRIDGE PLANS

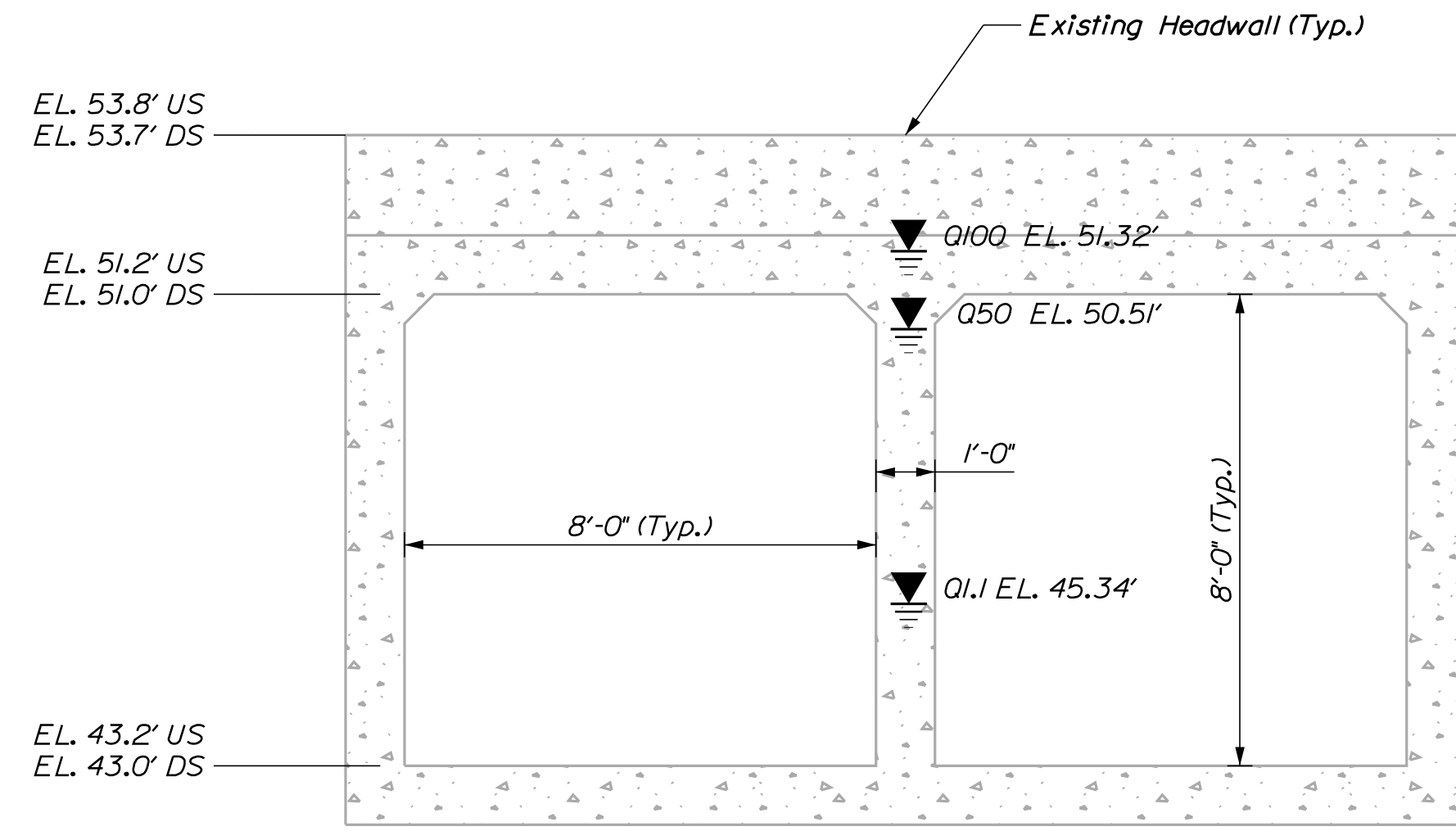
PROJ. MGR	BY	DATE
J. BRUNELLE	J. BRUNELLE	DEC 2023
B. NICHOLS	B. NICHOLS	DEC 2023
J. PRALL	J. PRALL	DEC 2023
M.P.	M.P.	

DESIGN/REVIEWED	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN DETAILED				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

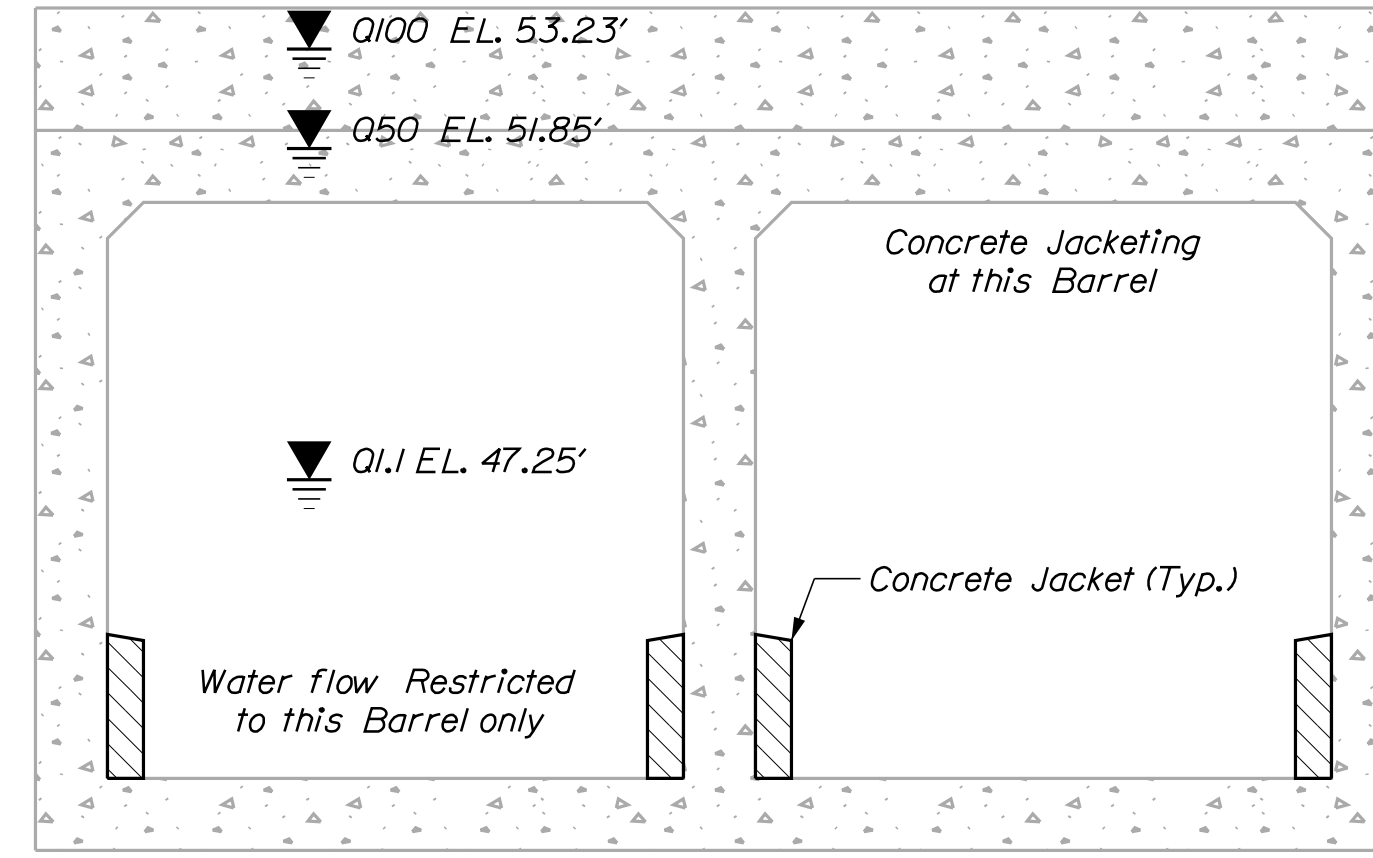
BRANCH BROOK BRIDGE  
 BRANCH BROOK  
 WELLS-KENNEBUNK YORK COUNTY  
**GENERAL PLANS**

SHEET NUMBER  
**3**  
 OF 7

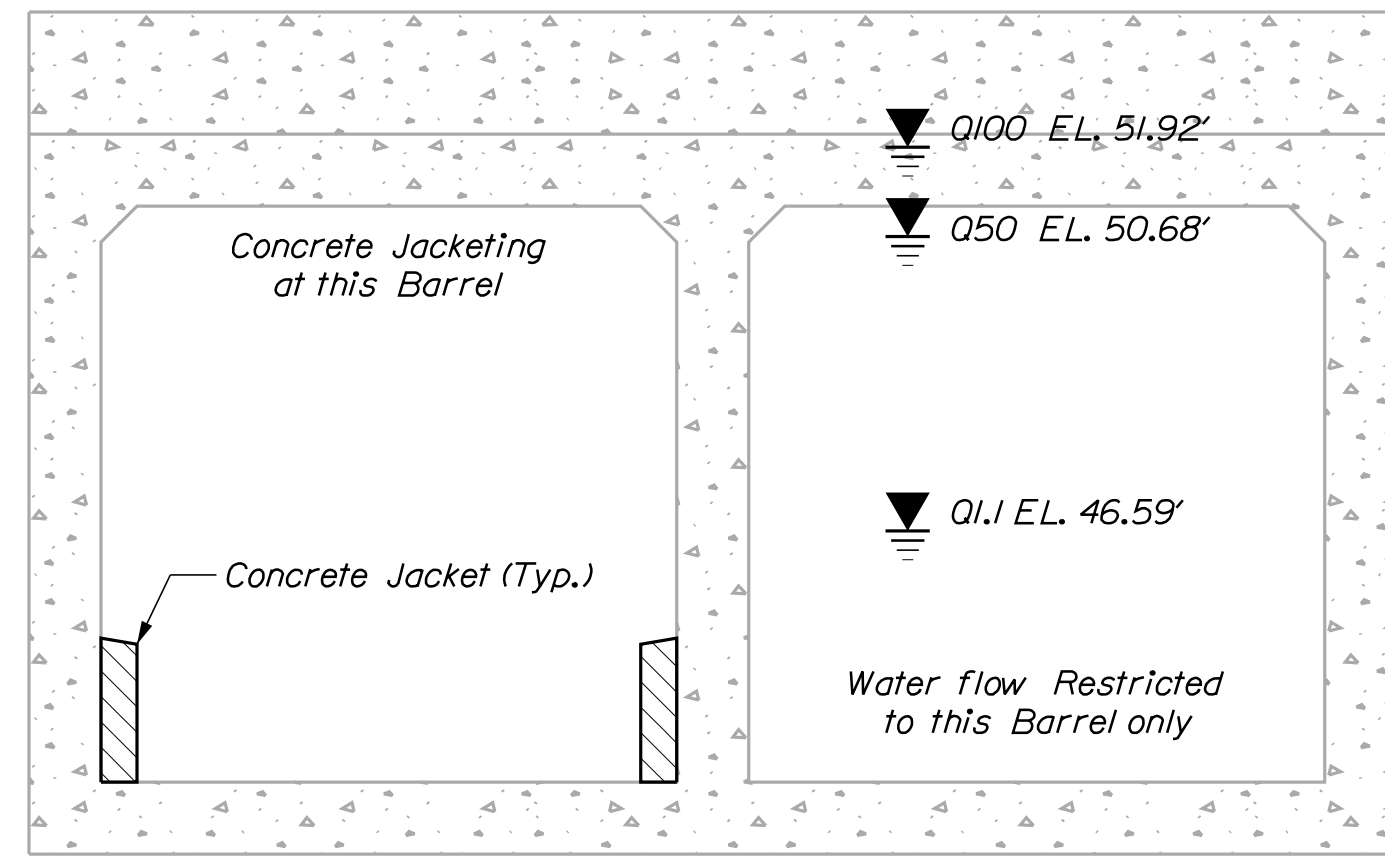




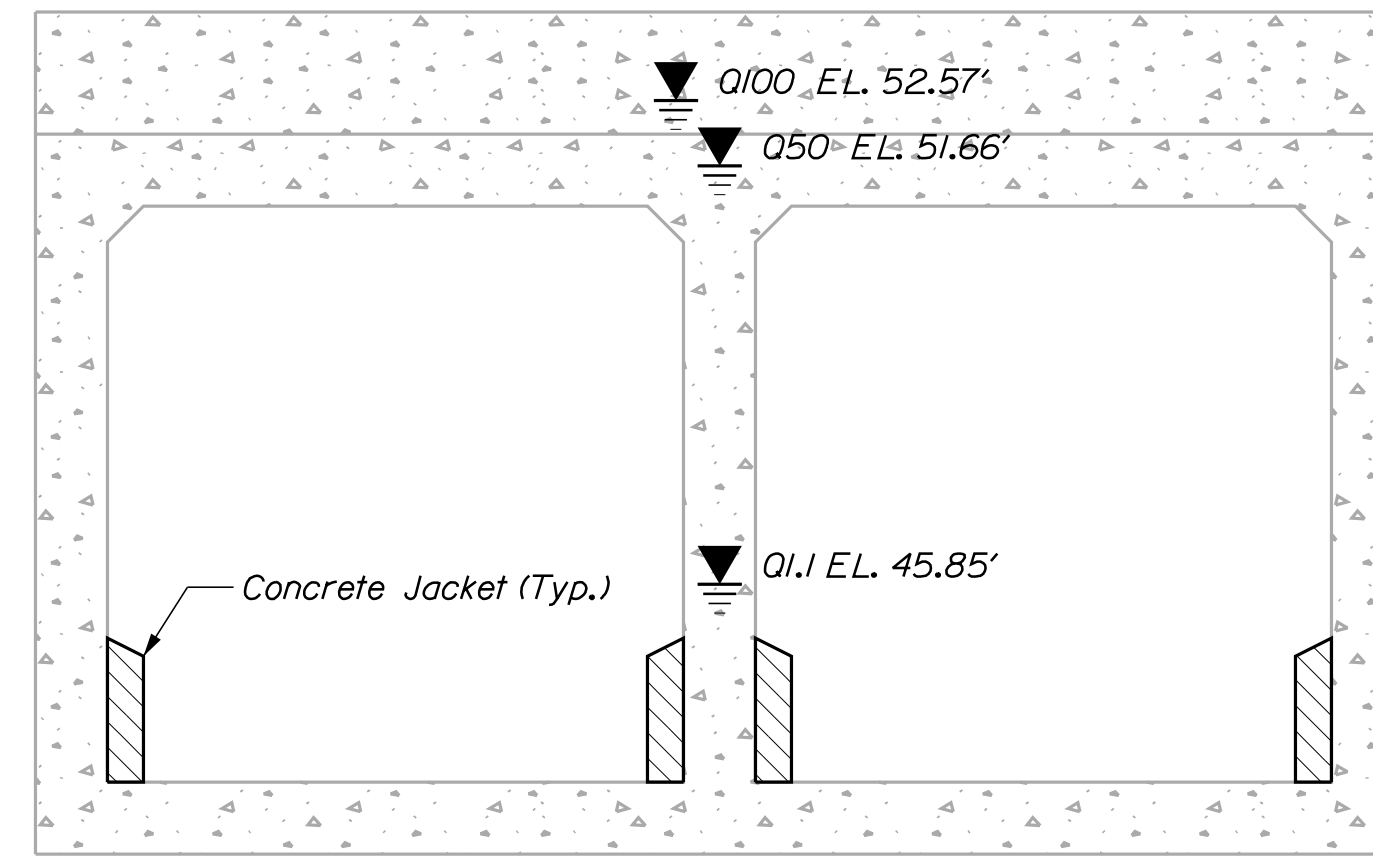
EXISTING BOX CULVERT SECTION



STAGE #2



STAGE #1



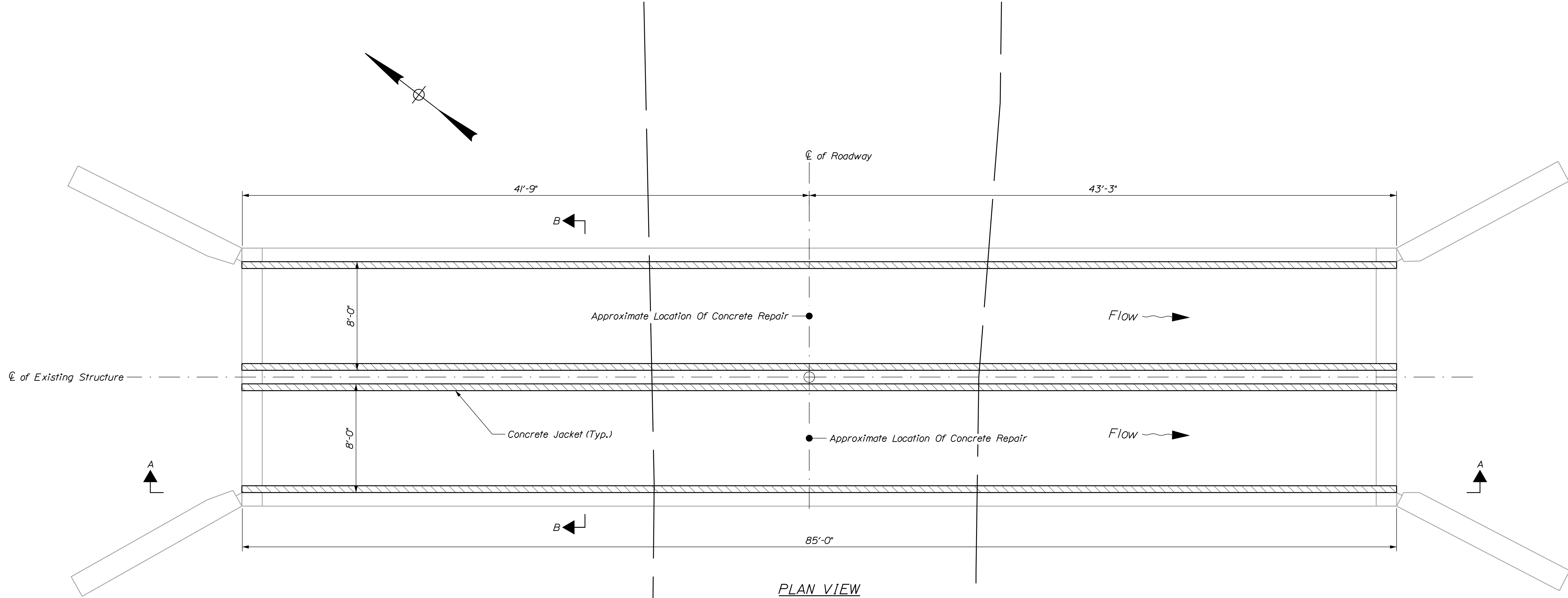
STAGE #3

Both Barrels open to Flow

SIGNATURE	P.E. NUMBER	DATE

PROJ. MANAGER	BY	DATE
B. NICHOLS	J. BRUNELLE	DEC 2023
DESIGN-DETAILED	J. PRALL	DEC 2023
CHECKED-REVIEWED	GAG	
DESIGN-DETAILED	BAN	
DESIGN-DETAILED	MP	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BRANCH BROOK BRIDGE  
BRANCH BROOK  
WELLS-KENNEBUNK YORK COUNTY  
**STAGED CONSTRUCTION PLAN**



PLAN VIEW

**NOTE**

Repair each barrel at the approximate center of roadway as directed by the Resident. This work will be paid for under the appropriate 518 Item.

SHEET NUMBER

6

OF 7

BRANCH BROOK BRIDGE  
BRANCH BROOK  
WELLS-KENNEBUNK YORK COUNTY  
BOX CULVERT JACKET

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED J. PRALL	J. BRUNELL	DEC 2023
CHECKED-REVIEWED GAG	RAN	DEC 2023
DESIGN-DETAILED	MP	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE  
P.E. NUMBER  
DATE

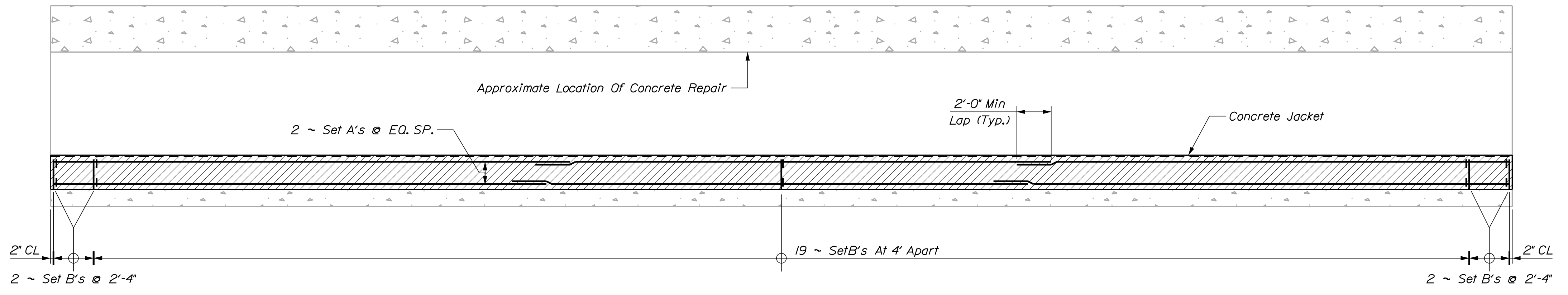
STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2318800  
BRIDGE NO. 3091  
WIN  
23188.00  
BRIDGE PLANS

Date: 12/14/2023

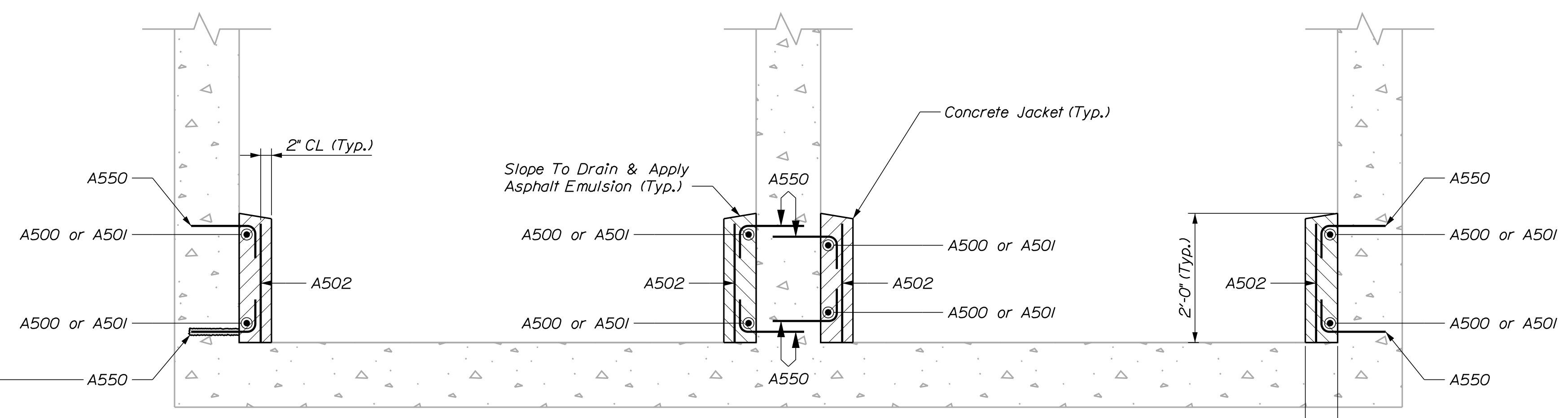
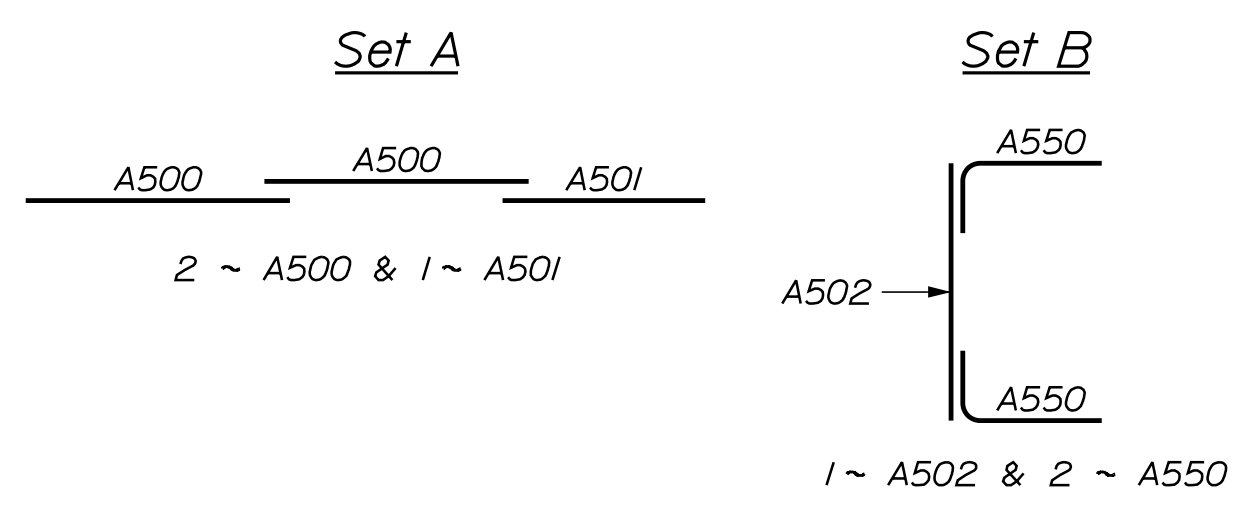
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Filename: ... \007\_Box\_Jacket\_Reinfor & Reinf Sch.dgn

Revision: BRIDGE



SECTION A-A

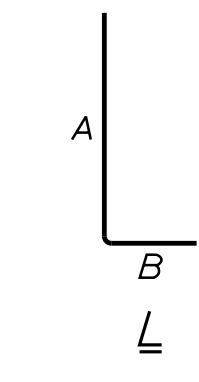


SECTION B-B

Note:  
Bar A550 To Be Drilled And Anchored Into Wall Of Concrete Box Culvert (Typ.)

STRAIGHT BARS				BENT BARS														
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
A500	16	30'-0"	Horizontal - Concrete Jacket	A550	184	1'-4"	L	0'-10"	0'-6"									Vertical - Concrete Jacket
A501	8	28'-8"	Horizontal - Concrete Jacket															
A502	92	1'-10"	Vertical - Concrete Jacket															

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 706, Grade 60

**GENERAL NOTES**

1. 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

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2318800	BRIDGE NO. 3091 WIN 23188.00	BRIDGE PLANS
BRANCH BROOK BRIDGE BRANCH BROOK WELLS-KENNEBUNK YORK COUNTY	BOX CULVERT JACKET DETAILS REINFORCING STEEL SCHEDULE	SHEET NUMBER 7 OF 7
PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	BY J. BRUNELLI J. PRALL B. NICHOLS M.P.	DATE DEC 2023 DEC 2023
SIGNATURE	P.E. NUMBER	DATE

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



### SPECIFICATIONS

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

### DESIGN LOADING

Live Load ..... HL - 93 For Strength 1

### TRAFFIC DATA

Current 2023 AADT ..... 15190  
 Future 2035 AADT ..... 16100  
 DHV - % of AADT ..... 11  
 Design Hour Volume ..... 1771  
 Heavy Trucks (% of AADT) ..... 7  
 Heavy Trucks (% of DHV) ..... 5  
 Directional Distribution (% of DHV) ..... 61  
 18 kip Equivalent P 2.0 ..... 371  
 18 kip Equivalent P 2.5 ..... 354  
 Design Speed (mph) ..... 45

### HYDROLOGIC DATA

Drainage Area ..... 5.38 sq mi  
 Design Discharge (Q50) ..... 209.1 cfs  
 Check Discharge (Q100) ..... 244.9 cfs  
 Headwater Elevation (Q1.1) ..... 3.68 ft  
 Headwater Elevation (Q25) ..... 4.90 ft  
 Headwater Elevation (Q50) ..... 5.06 ft  
 Headwater Elevation (Q100) ..... 5.31 ft  
 Discharge Velocity (Q1.1) ..... 4.17 fps  
 Discharge Velocity (Q50) ..... 4.56 fps  
 Discharge Velocity (Q100) ..... 4.58 fps

### MATERIALS

Concrete:  
 Curbs ..... Class "LP"  
 Precast ..... Class "P"  
 All Other ..... Class "A"  
 Reinforcing:  
 Plain Reinforcing Steel ..... ASTM A615, Grade 60  
 Prestressing Strands ..... AASHTO M 203 (ASTM A416),  
 Grade 270, Low Relaxation

### BASIC DESIGN STRESSES

Concrete:  
 Class "A" ..... f'c = 4,000 psi  
 Class "LP" ..... f'c = 5,000 psi  
 Class "P" ..... f'c = 6,500 psi  
 f'ci = 5,000 psi  
 Reinforcing:  
 Plain Reinforcing Steel ..... f y = 60,000 psi  
 Prestressing Strand ..... F μ = 270,000 psi

### LIST OF DRAWINGS

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## WELLS YORK COUNTY BUFFAM BRIDGE OVER WEBHANNET RIVER US ROUTE 1 FEDERAL AID PROJECT NO. 2353500 PROJECT LENGTH 0.076 mi. BRIDGE NO. 2107

### UTILITIES

Central Maine Power  
 Maine Fiber Company and  
 Charter Communication  
 Spectrum  
 Kennebunk - Kennebunk & Wells Water  
 Wells Sanitary District

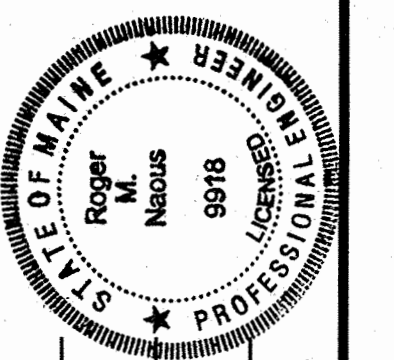
### MAINTENANCE OF TRAFFIC

Stage I: Maintain one 11'-0" wide lane of alternating one - way traffic on the existing bridge using traffic signals.

Stage II: Maintain two 12'-0" lanes of two - way traffic on the partially constructed new bridge.

<u>PROJECT LOCATION</u>	Buffam Bridge over Webhannet River Located 0.02 miles South of Falla Park Lat./Long. 43° 17' 54.24" N, 70° 35' 14.02" W
<u>PROGRAM AREA</u>	Highway-Bridge Traditional
<u>OUTLINE OF WORK</u>	Bridge Superstructure Replacement

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
APPROVED: [Signature]  
DATE: 12-21-23  
COMMISSIONER: [Signature]  
CHIEF ENGINEER: [Signature]



SIGNATURE: [Signature]  
P.E. NUMBER: 9918  
DATE: DEC 14 2023

PROGRAM	BRIDGE
PROJECT MANAGER	B. NICHOLS
DESIGNER	R. NABUS
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WELLS  
BUFFAM BRIDGE  
TITLE SHEET

SHEET NUMBER  
**1**  
OF 27

2353500

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.10	REMOVING EXISTING SUPERSTRUCTURE - PROP. OF CONTRACTOR (70 CY)	1	LS
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	95	CY
202.202	REMOVING PAVEMENT SURFACE	1,030	SY
203.20	COMMON EXCAVATION	580	CY
203.24	COMMON BORROW	230	CY
203.25	GRANULAR BORROW	70	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	200	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	500	CY
403.2081	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	181	T
403.2131	12.5 MM POLYMER MODIFIED HMA BASE	230	T
409.15	BITUMINOUS TACK COAT - APPLIED	102	G
502.21	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	108	CY
502.248	UNDERWATER GROUT BAGS	2	CY
502.261	STRUCTURAL CONCRETE RDWY AND S/W SLAB ON CONC. BRIDGES (32 CY)	1	LS
502.31	STRUCTURAL CONCRETE APPROACH SLABS (3 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS	1	LS
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	23,700	LB
503.13	REINFORCING STEEL, PLACING	23,700	LB
503.17	MECHANICAL WELDED SPLICE	6	EA
507.0821	STEEL BRIDGE RAILING, 3 BAR (50 LF)	1	LS
507.0822	STEEL APPROACH RAIL, 3 BAR	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (163 SY)	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (35 SY)	1	LS
524.301	TEMPORARY STRUCTURAL SUPPORT	1	LS
526.301	PORTABLE CONCRETE BARRIER TYPE I	1	LS
527.34	WORK ZONE CRASH CUSHIONS	4	UN
535.60	PRESTRESSED STRUCTURAL CONCRETE SLAB (47 CY)	1	LS
606.1301	3" W-BM GR, MID-WAY SPLICE-SGL FACED	470	LF
606.1305	3" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	1	EA
606.1306	3" W-BM GR, MID-WAY SPLICE TANGENT TERMINAL	1	EA
606.1721	BRIDGE TRANSITION - TYPE I	4	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.08	PLAIN RIPRAP	175	CY
613.319	EROSION CONTROL BLANKET	178	SY
615.07	LOAM	58	CY
618.14	SEEDING METHOD NUMBER 2	10	UN
619.12	MULCH	10	UN
619.14	EROSION CONTROL MIX	113	CY
620.58	EROSION CONTROL GEOTEXTILE	311	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1,700	LF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	4,000	LF
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	40	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	40	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	50	EA
652.34	CONE	150	EA
652.35	CONSTRUCTION SIGNS	400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	400	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

ESTIMATED QUANTITIES - UTILITY SUPPORT			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
524.301	TEMPORARY STRUCTURAL SUPPORT - CONSOLIDATED COMMUNICATIONS	1	LS
629.05	HAND LABOR, STRAIGHT TIME	16	HR
910.301	SPECIAL WORK - UTILITY CONDUIT (CONSOL. COMM. - BRIDGE ONLY)	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.
- All embankment material, except as otherwise shown, shall be Granular Borrow meeting the requirements of Standard Specifications Subsection 703.19, Granular Borrow, for Material for Underwater Backfill.
- Place riprap on sideslopes up to EL. 209.1.
- 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.
- Guardrail posts as shown in the Standard Details shall be modified from the indicated length of 7 feet to a length of 8 feet with an embedment of 5.25 feet. Payment will be considered incidental to the guardrail pay items.
- A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
- 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 wingwalls, and To one foot below the ground on vertical walls against earth.
- 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.
- Reports on hydrology and/or hydraulics applicable to the bridge site may be accessed at the MaineDOT web address. The reports are based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.
- The project geotechnical report titled: Name of Report(s), Soils Report 2019-56, Dated August 27, 2019 may be accessed at the MaineDOT web address.
- 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 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 and Time.

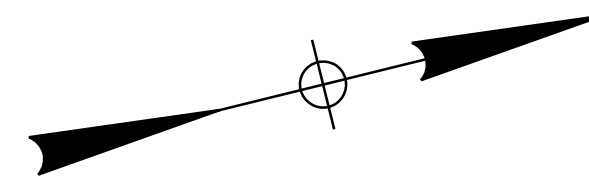
- All costs for cofferdams, including pumping, maintenance, related temporary soil erosion and water pollution controls, and removal, will not be paid for directly, but will be considered incidental to related Contract items.
- The Contractor shall submit a Bridge Demolition Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting, and finalizing the Demolition Plan will be considered incidental to the bridge removal pay item.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2353500		WIN		023535.00		BRIDGE NO. 2107		BRIDGE PLANS	
PROJ. MANAGER				BRIAN NICHOLS				DATE					
DESIGN-DETAILED		R. MAOIS		DEC 2023		BY		DATE		SIGNATURE		P.E. NUMBER	
CHECKED-REVIEWED		J. PRAUL		DEC 2023		MC/RUN							
DESIGNS DET AILED						SLZ/EDB							
REVISIONS 1													
REVISIONS 2													
REVISIONS 3													
REVISIONS 4													
FIELD CHANGES													
BUFFAM BRIDGE				WEBHANNET RIVER				YORK COUNTY					
WELLS				ESTIMATED QUANTITIES & GENERAL CONSTRUCTION NOTES				SHEET NUMBER					
				2									
				OF 27									

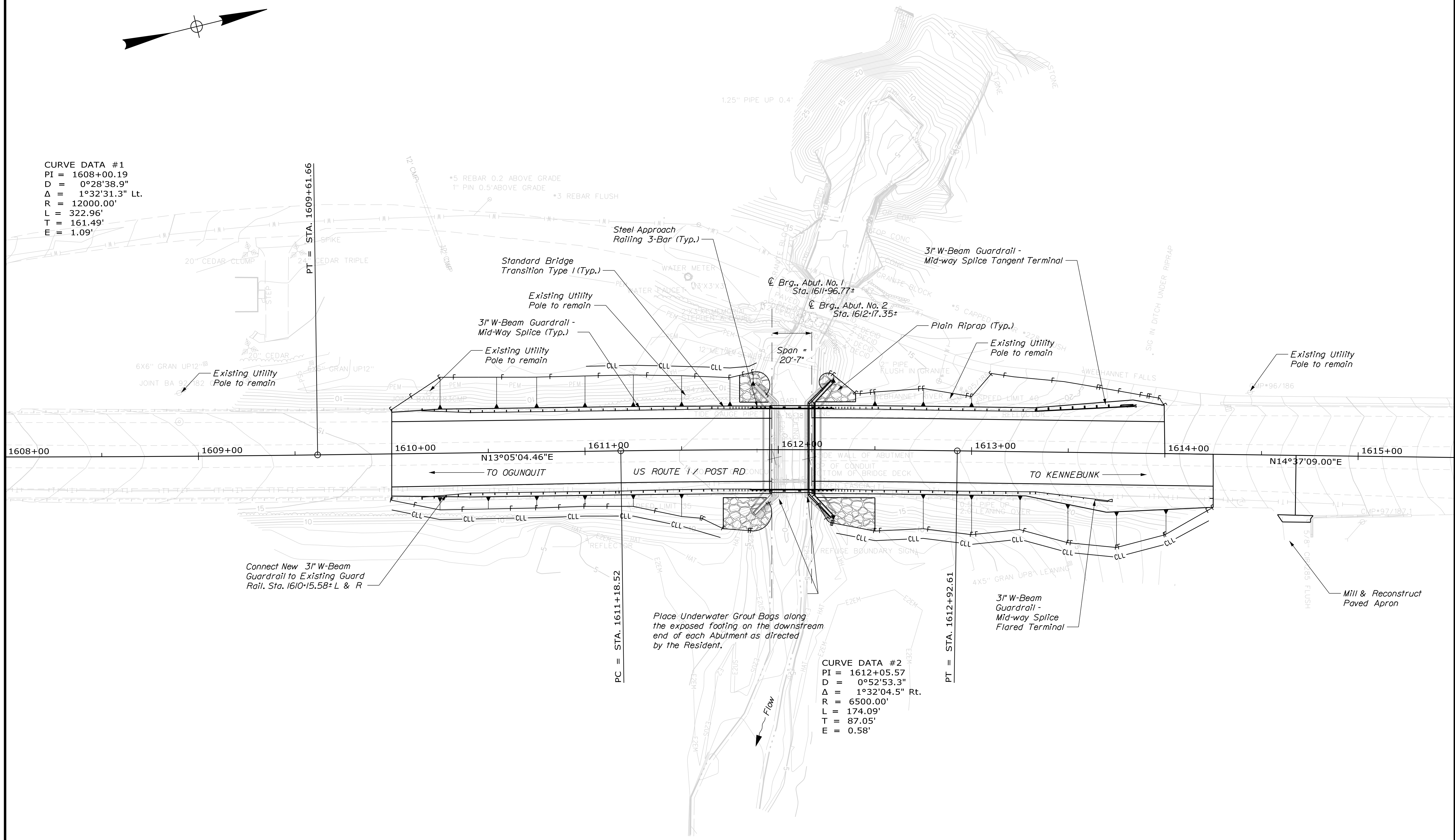
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Username: Brian.Nichols

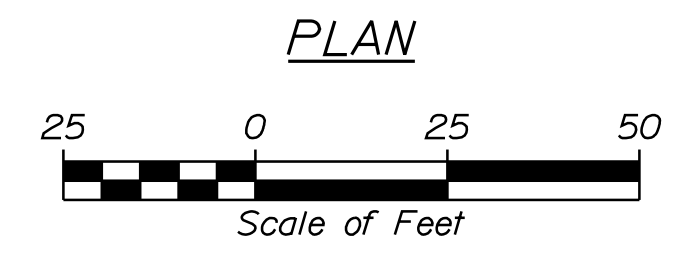
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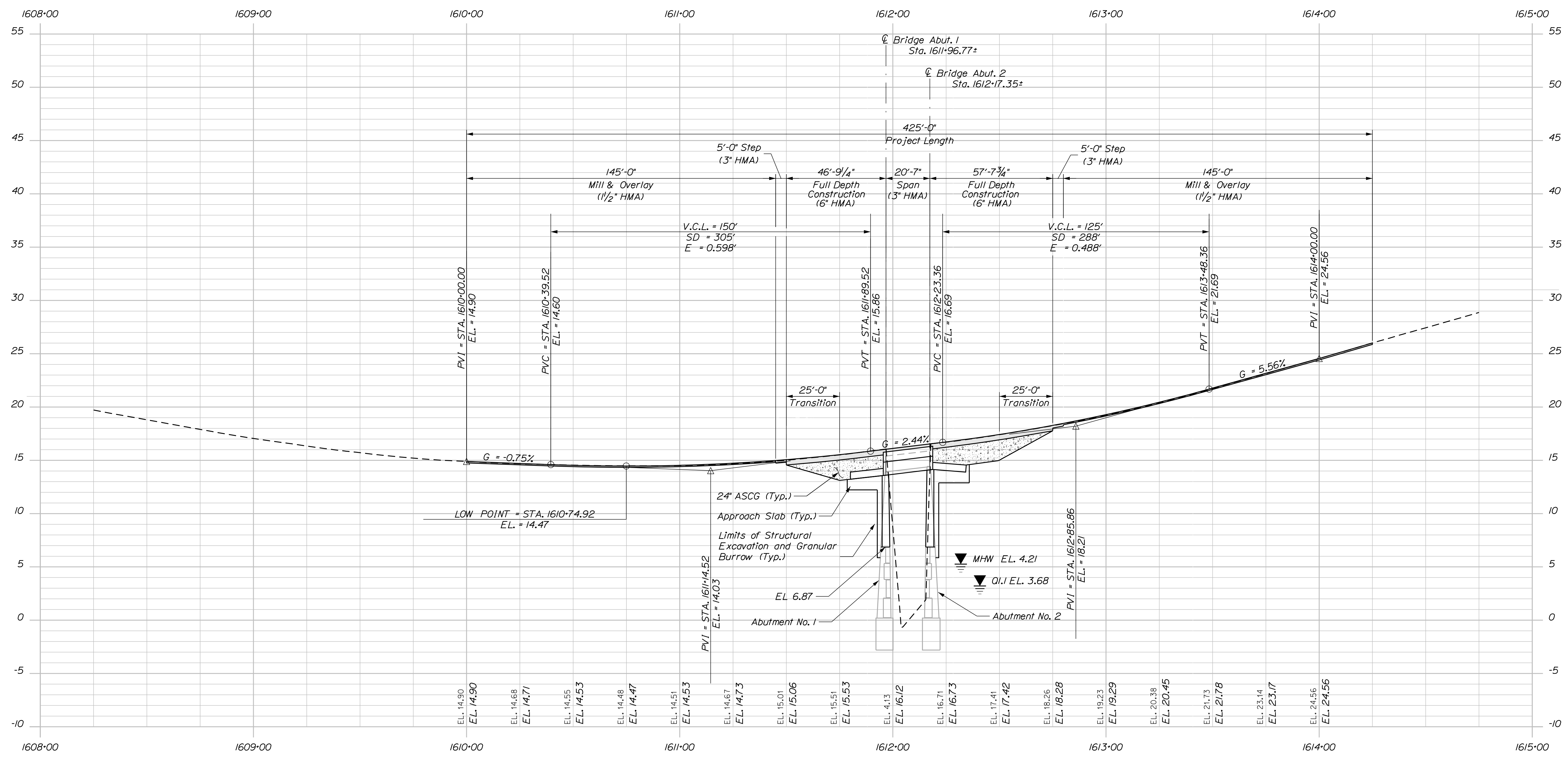
CURVE DATA #1  
 PI = 1608+00.19  
 D = 0°28'38.9"  
 Δ = 1°32'31.3" Lt.  
 R = 12000.00'  
 L = 322.96'  
 T = 161.49'  
 E = 1.09'



CURVE DATA #2  
 PI = 1612+05.57  
 D = 0°52'53.3"  
 Δ = 1°32'04.5" Rt.  
 R = 6500.00'  
 L = 174.09'  
 T = 87.05'  
 E = 0.58'

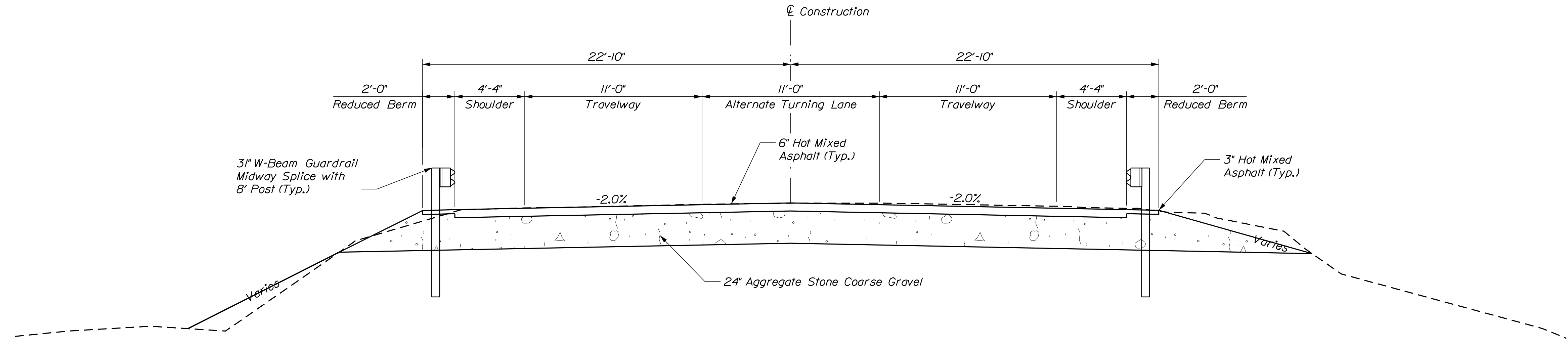


STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2353500	
WELLS		YORK COUNTY		BRIDGE NO. 2107 WIN 023535.00	
BUFFAM BRIDGE		WEBHANNET RIVER		GENERAL PLAN	
SHEET NUMBER		3		OF 27	
PROJ. MGR.	BRIAN NICHOLS	BY	BRIAN NICHOLS	DATE	DEC 2023
DESIGN DETAIL	R. MAJORS	MC/BIN	MC/BIN	SIGNATURE	DEC 2023
CHECKED-REVIEWED	J. PARRA	SLZ/EDB	SLZ/EDB	P.E. NUMBER	DEC 2023
DESIGN DETAIL				DATE	
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

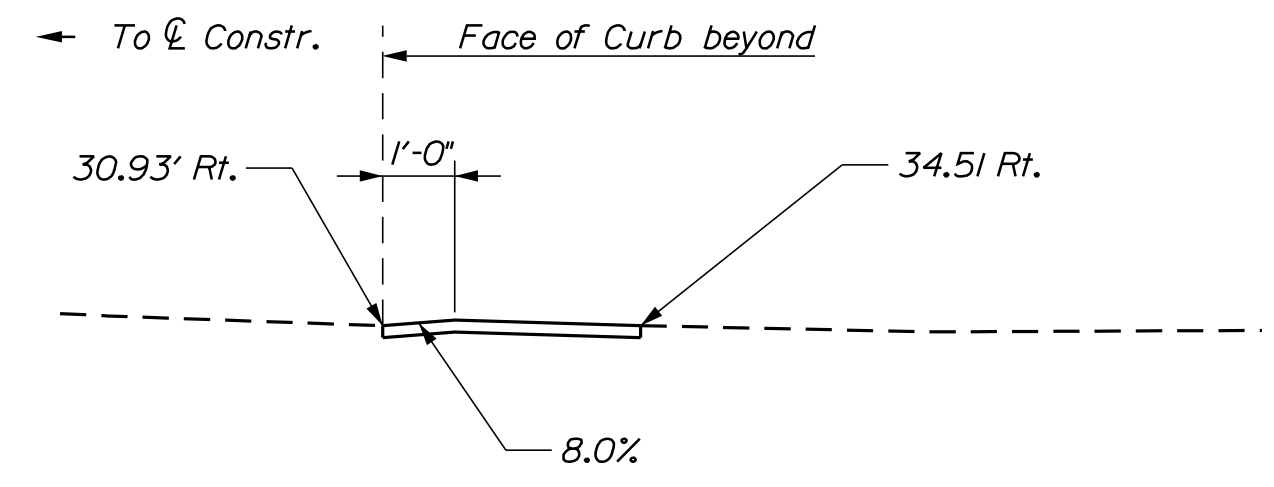


PROFILE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2353500	
WELLS		YORK COUNTY	
BUFFAM BRIDGE WEBHANNET RIVER		PROFILE	
SHEET NUMBER		4	
OF 27		BRIDGE NO. 2107	
WIN		023535.00	
BRIDGE PLANS		DATE	
SIGNATURE		P.E. NUMBER	
DATE		DATE	
BY		DATE	
BRIAN NICHOLS		DEC 2023	
R. MAJORS		DEC 2023	
J. PRAHL		DEC 2023	
DESIGN DETAILED		DESIGN DETAILED	
REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES	

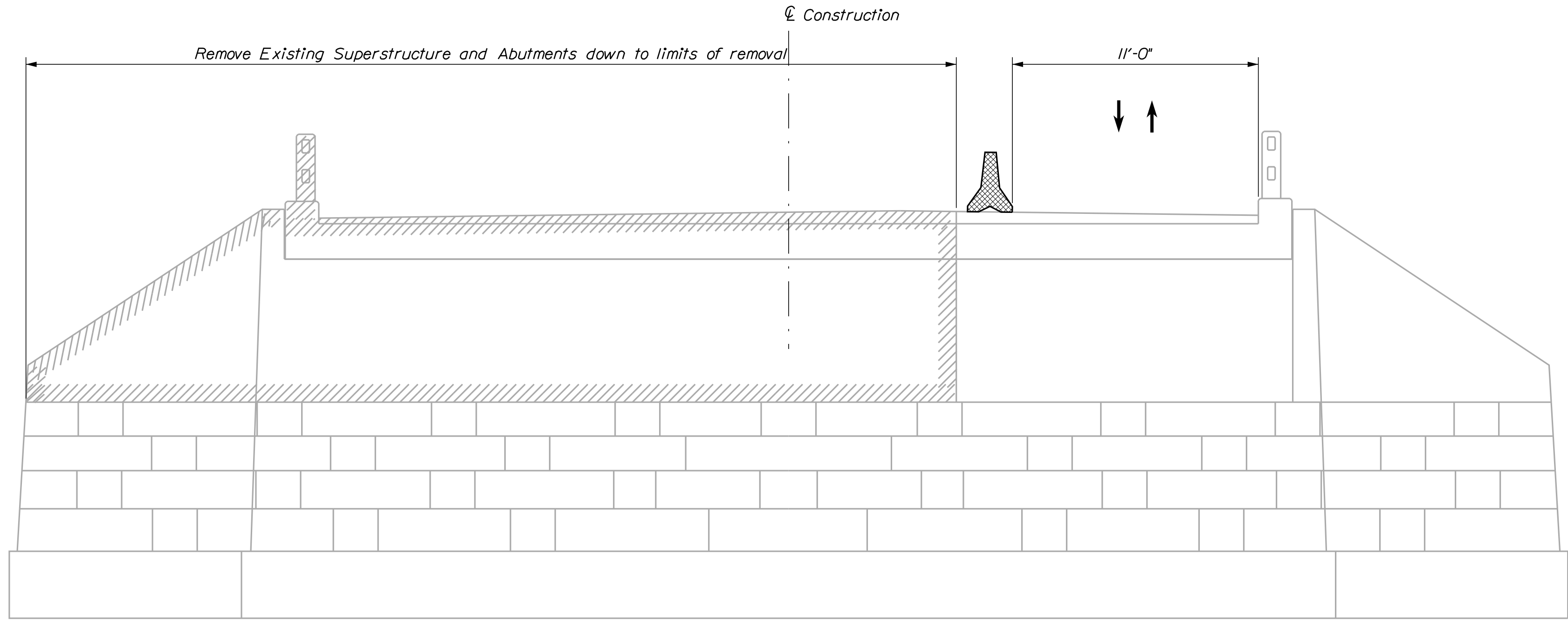


TYPICAL APPROACH SECTION

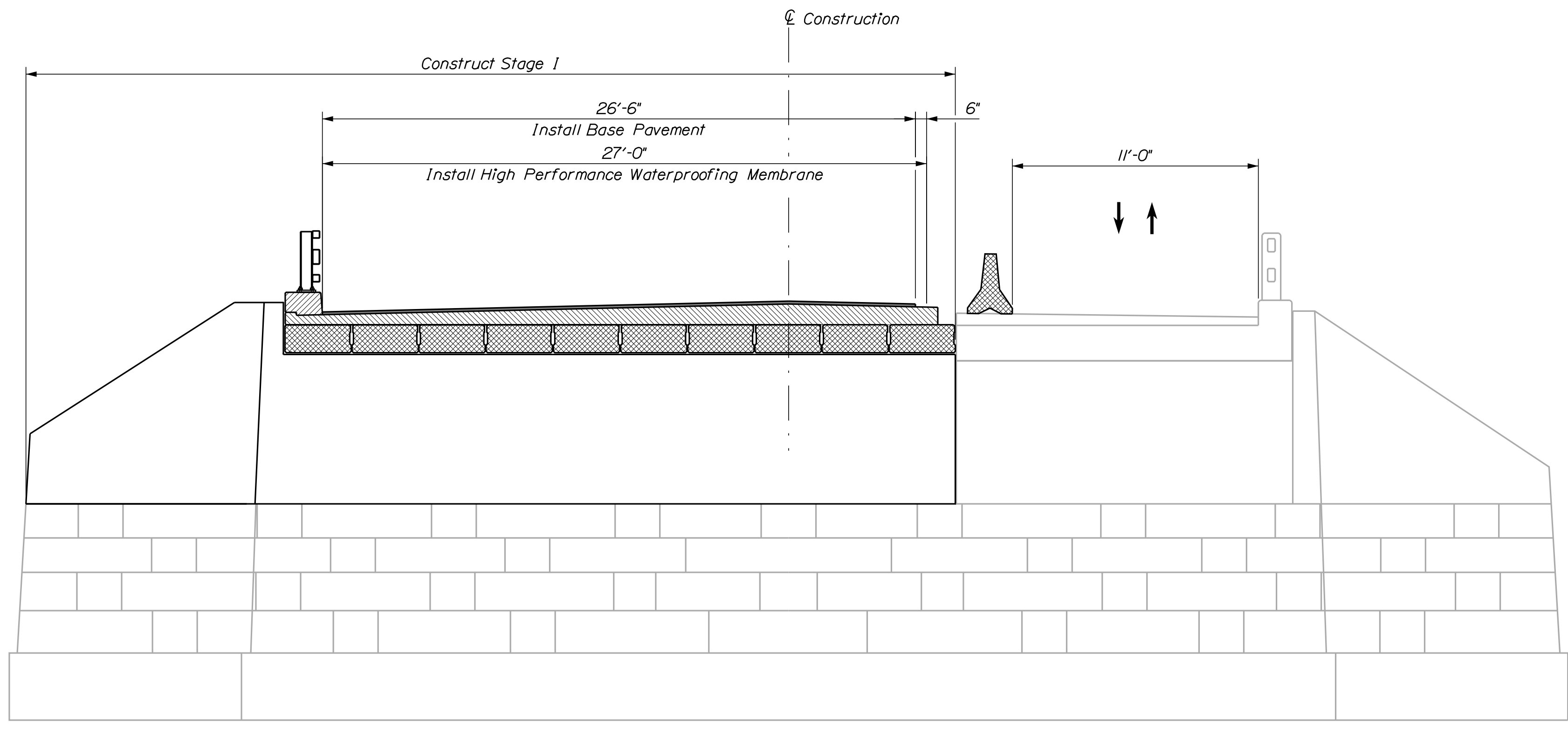


MILL & RECONSTRUCT PAVED APRON DRIVEWAY @ 1614-69 RT.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2353500		BRIDGE NO. 2107		BRIDGE PLANS	
WELLS		YORK COUNTY		TYPICAL APPROACH SECTION		SHEET NUMBER	
BUFFAM BRIDGE		WEBHANNET RIVER		5		OF 27	
PROJ. MANAGER	BRIAN NICHOLS	BY	MC/RJN	DATE	DEC 2023	SIGNATURE	
DESIGN-DETAILED	R.MAQUIS	CHECKED-REVIEWED	J.PRAUL	DATE	DEC 2023	P.E. NUMBER	
DESIGNS-DETAILED		DESIGNS-DETAILED		DATE		DATE	
REVISIONS 1		REVISIONS 2		DATE		DATE	
REVISIONS 3		REVISIONS 4		DATE		DATE	
FIELD CHANGES							



STAGE 1a



STAGE 1b

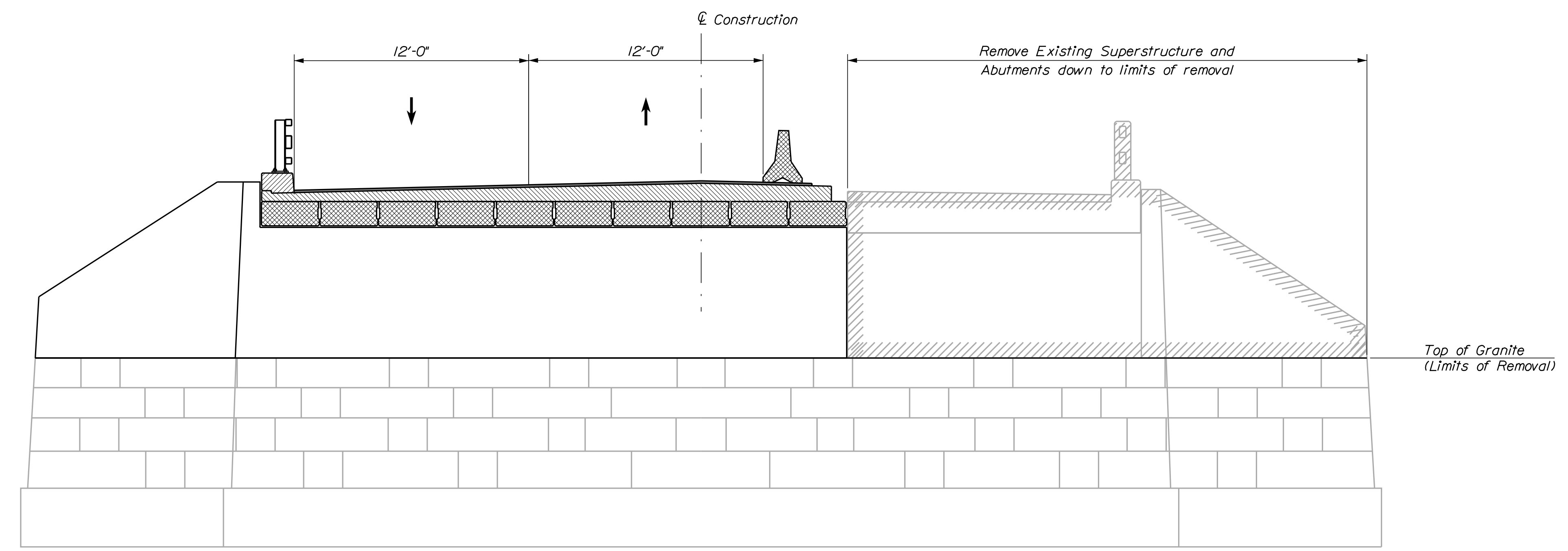
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2353500	
WELLS		YORK COUNTY		WIN	
BUFFAM BRIDGE		WEBHANNET RIVER		023535.00	
STAGED CONSTRUCTION		SHEET NUMBER		BRIDGE NO. 2107	
6		OF 27		BRIDGE PLANS	

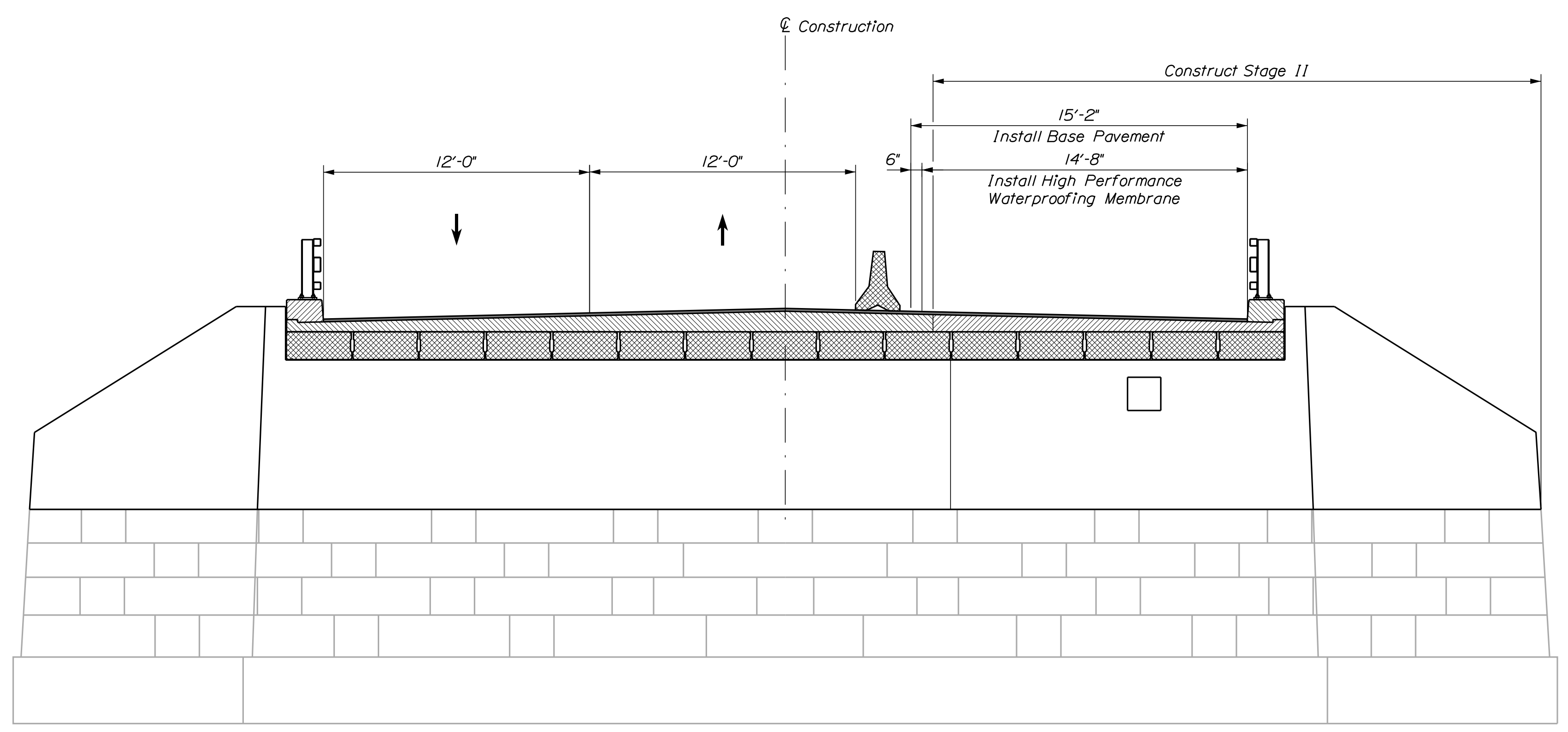
PROJ. MANAGER	BRIAN NICHOLS	BY	DATE
DESIGN-DETAILED	R.MAQUIS	MC/BJN	DEC 2023
CHECKED-REVIEWED	J.PRAUL	SLZ/EDB	DEC 2023
DESIGN-DETAILED			DEC 2023
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE



STAGE 11a



STAGE 11b

STAGE 11c  
Install Surface Pavement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2353500	
WELLS		YORK COUNTY	
BUFFAM BRIDGE WEBHANNET RIVER		STAGED CONSTRUCTION	
SHEET NUMBER		27	
OF 27		BRIDGE NO. 2107 WIN 023535.00 BRIDGE PLANS	

PROJ. MANAGER	BRIAN NICHOLS	BY	DATE
DESIGN-DETAILED	R.MAOUS	MC/BJN	DEC 2023
CHECKED-REVIEWED	J.PRAUL	SLZ/EDB	DEC 2023
DESIGN-DETAILED			DEC 2023
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES

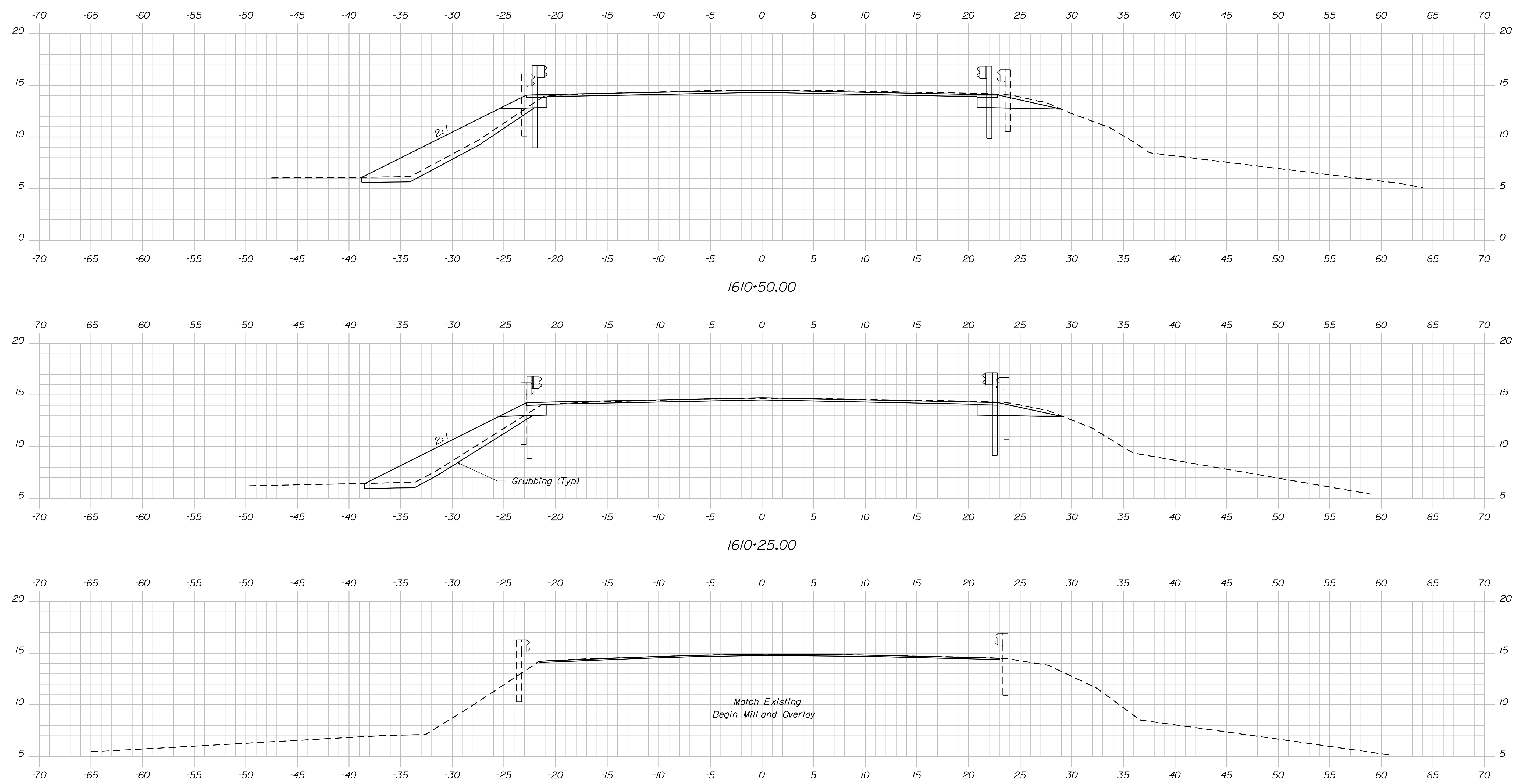
DATE	SIGNATURE	P.E. NUMBER	DATE

Date: 12/14/2023

Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTA\008\_XSECT\_1610+00.dgn



Sta. 1610+15.58±, 22.16± Lt. Match New 31" W-Beam GR to Existing GR and Transition New 31" W-Beam GR to Sta. 1610+41.61±, 20.83± Lt. and Continue New 31" W-Beam GR to Sta. 1611+65.61±, 20.83± Lt.

1610+00.00

Sta. 1610+15.58±, 22.56± Rt. Match New 31" W-Beam GR to Existing GR and Transition New 31" W-Beam GR to Sta. 1610+41.61±, 20.83± Rt. and Continue New 31" W-Beam GR to Sta. 1611+65.61±, 20.83± Rt.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2353500
WELLS		WIN
BUFFAM BRIDGE WEBHANNET RIVER YORK COUNTY		BRIDGE NO. 2107
CROSS SECTIONS		023535.00
SHEET NUMBER		
8		
OF 27		

PROJ. MANAGER	BY	DATE
BRIAN NICHOLS	MC/RIN	DEC 2023
DESIGN DETAILED	SLZ/EBB	DEC 2023
CHECKED/REVIEWED	J.PRAUL	DEC 2023
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REVISIONS 1		
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REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

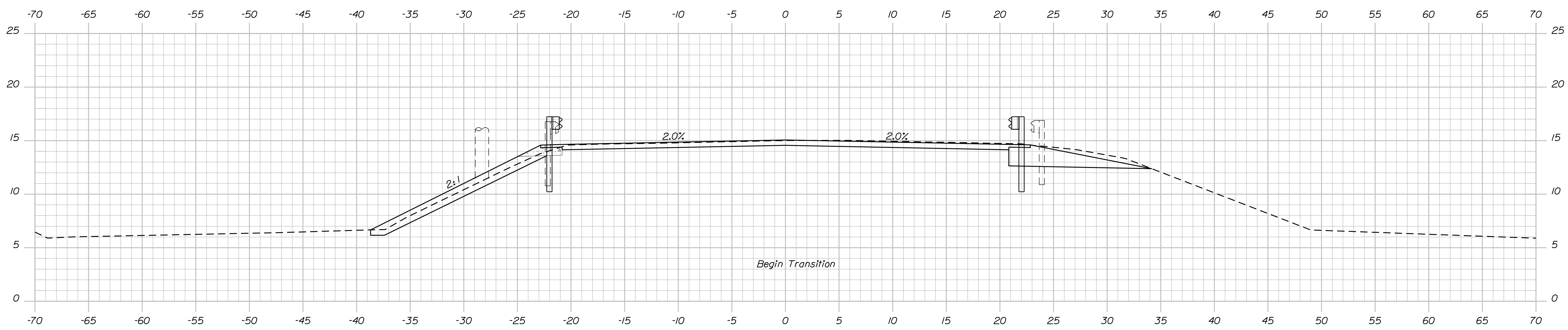
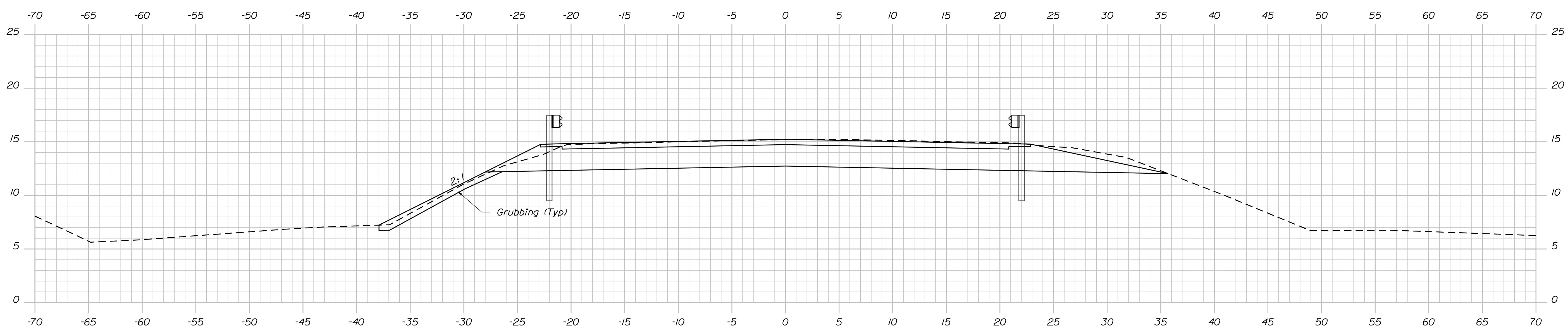
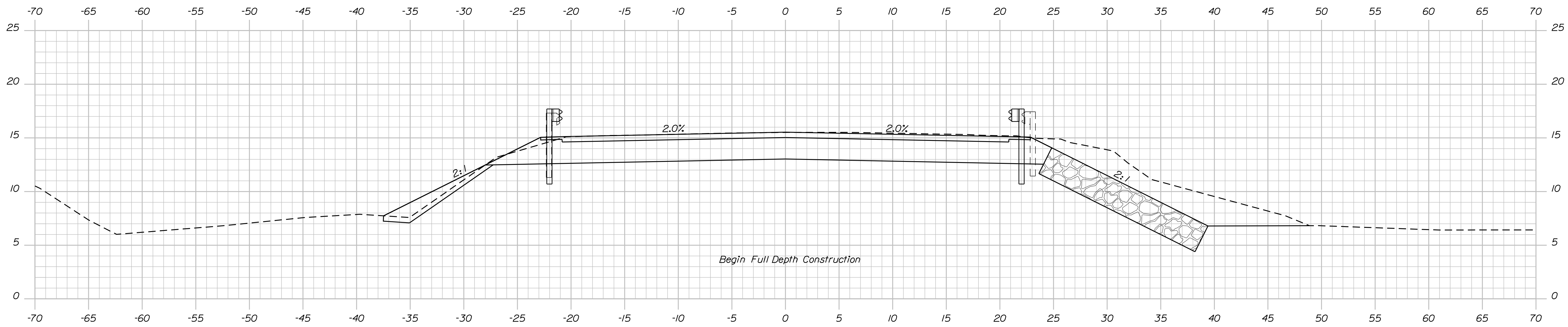
SIGNATURE	P.E. NUMBER
DATE	DATE

Date: 12/14/2023

Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTAD009\_XSECT\_1610+50.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2353500  
WIN 023535.00  
BRIDGE NO. 2107 BRIDGE PLANS

DESIGN-DETAILED	DATE	SIGNATURE
CHECKED-REVIEWED	DEC 2023	
DESIGN-DETAILED	DEC 2023	
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	BRIAN NICHOLS
BY	MC/BIN
DATE	DEC 2023
CHECKED-REVIEWED	J.PRAUL
DESIGN-DETAILED	S.L.ZIEB
DATE	DEC 2023

WELLS  
BUFFAM BRIDGE  
WEBHANNET RIVER  
YORK COUNTY  
CROSS SECTIONS

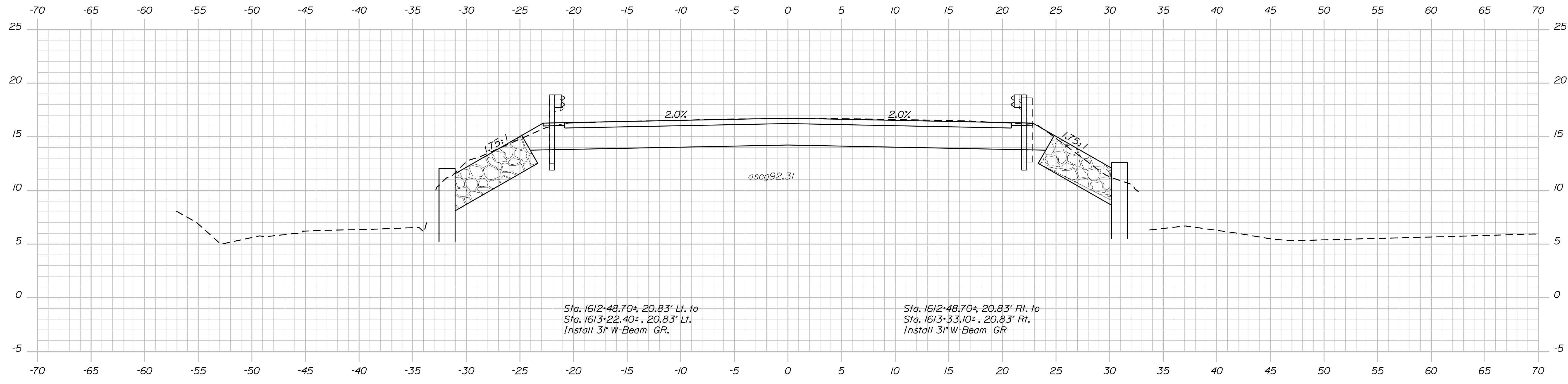
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OF 27

Date: 12/14/2023

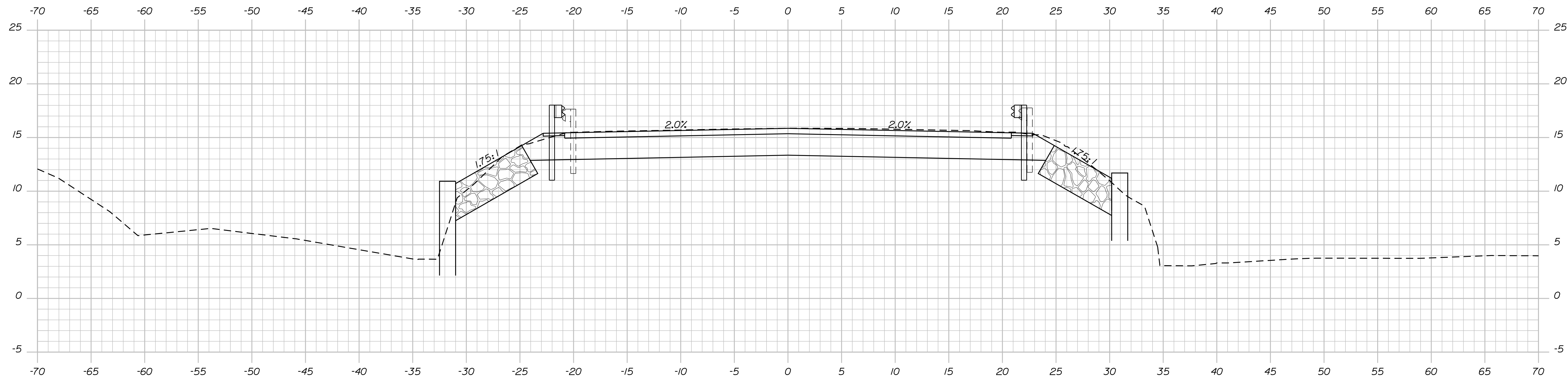
Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MST\A\10\_XSECT\_1612-00.dgn



1612+25.00



1611+89.00

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2353500  
WIN  
023535.00  
BRIDGE NO. 2107  
BRIDGE PLANS

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

DATE  
DEC 2023  
DEC 2023  
DEC 2023

SIGNATURE  
P.E. NUMBER  
DATE

BUFFAM BRIDGE  
WEBHANNET RIVER  
YORK COUNTY  
WELLS  
CROSS SECTIONS

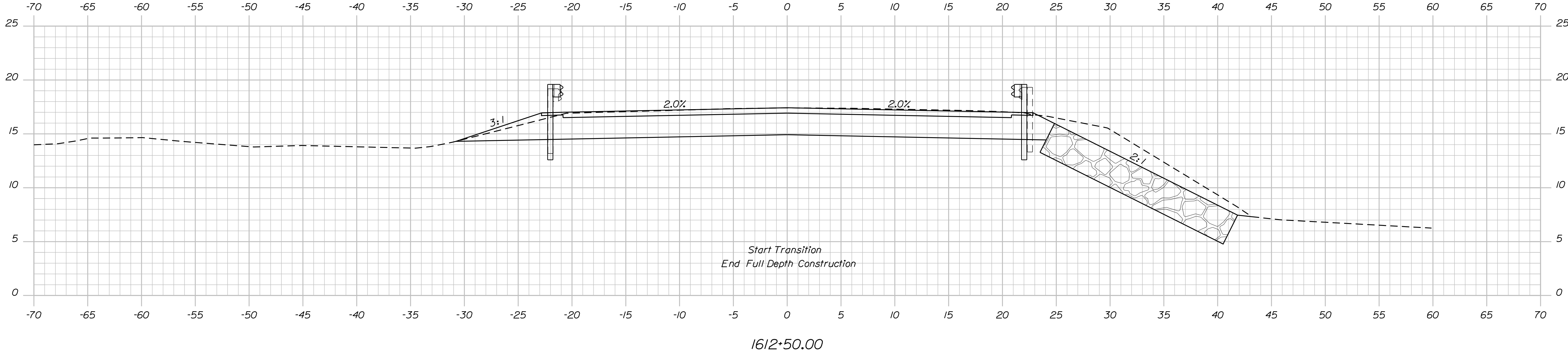
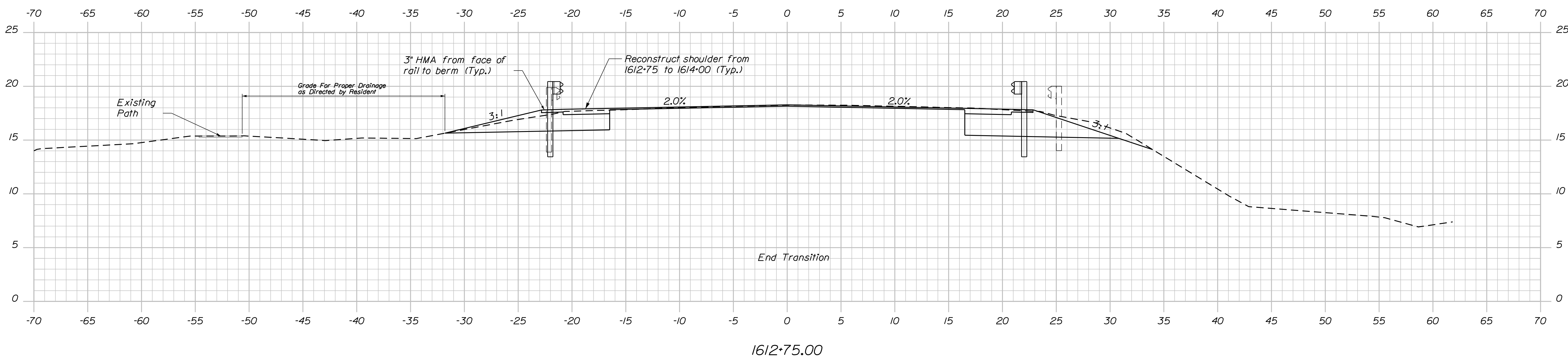
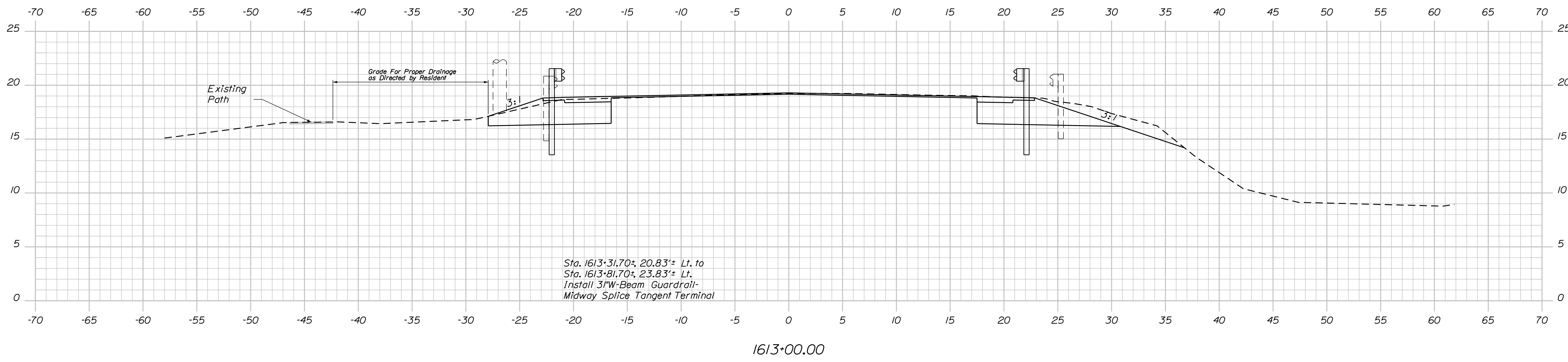
SHEET NUMBER  
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OF 27

Date: 12/14/2023

Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTA\011\_XSECT\_1612+50.dgn



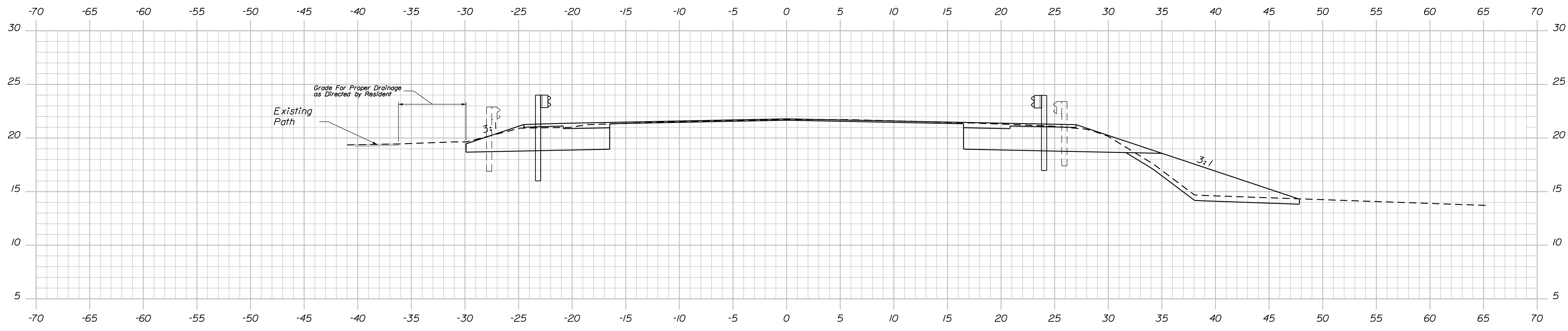
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2353500		WIN		023535.00		BRIDGE NO. 2107		BRIDGE PLANS	
BUFFAM BRIDGE		WEBHANNET RIVER		YORK COUNTY		WELLS		CROSS SECTIONS		SHEET NUMBER		11	
PROJ. MANAGER		BRIAN NICHOLS		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		R. MAJULIS		MC/BUN		DEC 2023		SILZ/EDB		DEC 2023			
CHECKED-REVIEWED		J. PRAHL		SILZ/EDB		DEC 2023							
DESIGN-DETAILED													
REVISIONS 1													
REVISIONS 2													
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REVISIONS 4													
FIELD CHANGES													

Date: 12/15/2023

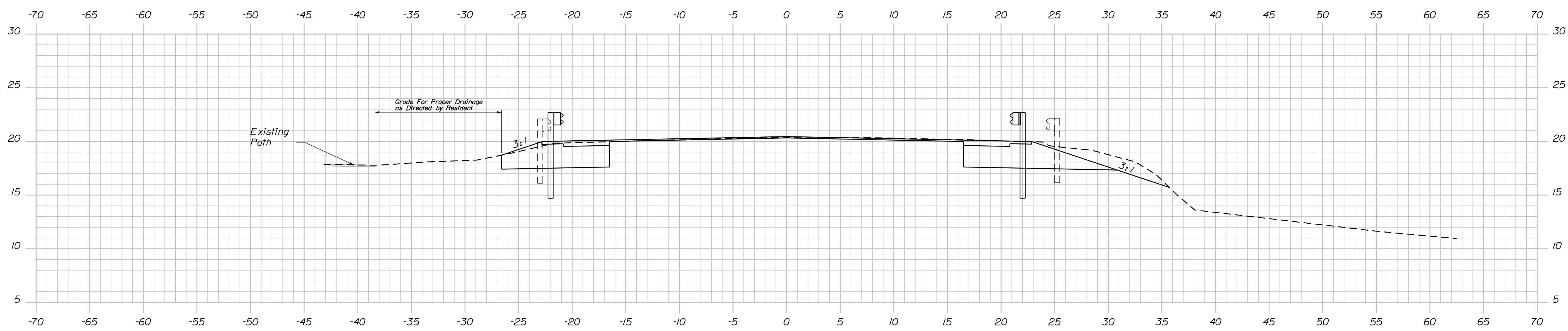
Username: Brian.Nichols

Division: BRIDGE

Filename: ... \MSTAO12\_XSECT\_1613+25.dgn



1613+50.00



1613+25.00

Sta. 1612+33.100±, 20.83' Lt. to  
 Sta. 1613+85.00±, 24.05' Lt.  
 Install 3" W-Beam GR Mid-way  
 Splice Tangent Terminal.

Sta. 1612+33.100±, 20.83' Rt. to  
 Sta. 1613+70.82±, 20.83' Rt.  
 Install 3" W-Beam GR Mid-way  
 Splice Flared Terminal.

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 2353500  
 WIN 023535.00  
 BRIDGE NO. 2107 BRIDGE PLANS

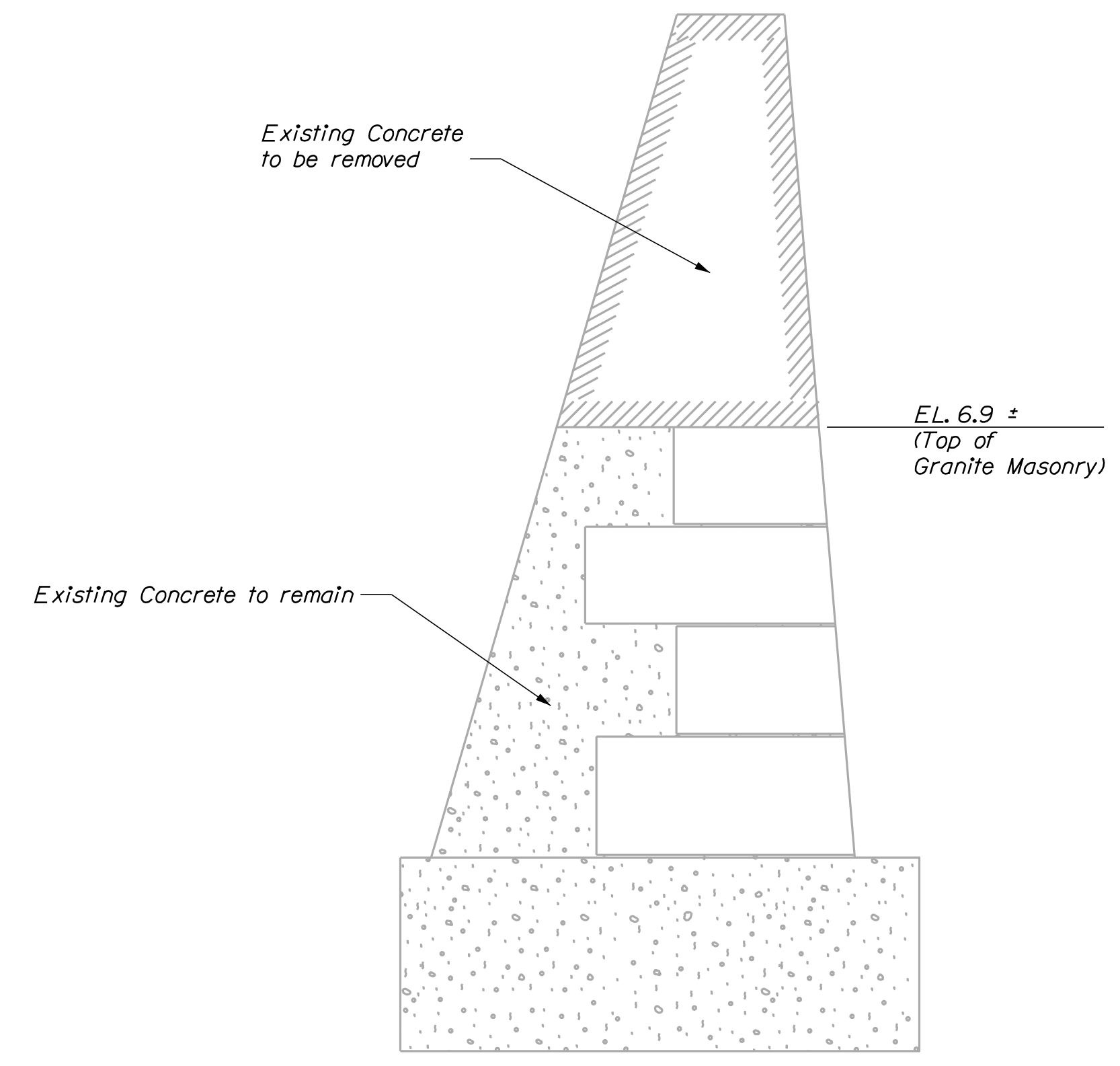
DESIGN/DATE	DEC 2023	SIGNATURE
CHECKED/REVIEWED	DEC 2023	P.E. NUMBER
DESIGN/DATE	DEC 2023	DATE

PROJ. MANAGER	BRIAN NICHOLS
DESIGN/DATE	DEC 2023
CHECKED/REVIEWED	DEC 2023
DESIGN/DATE	DEC 2023
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

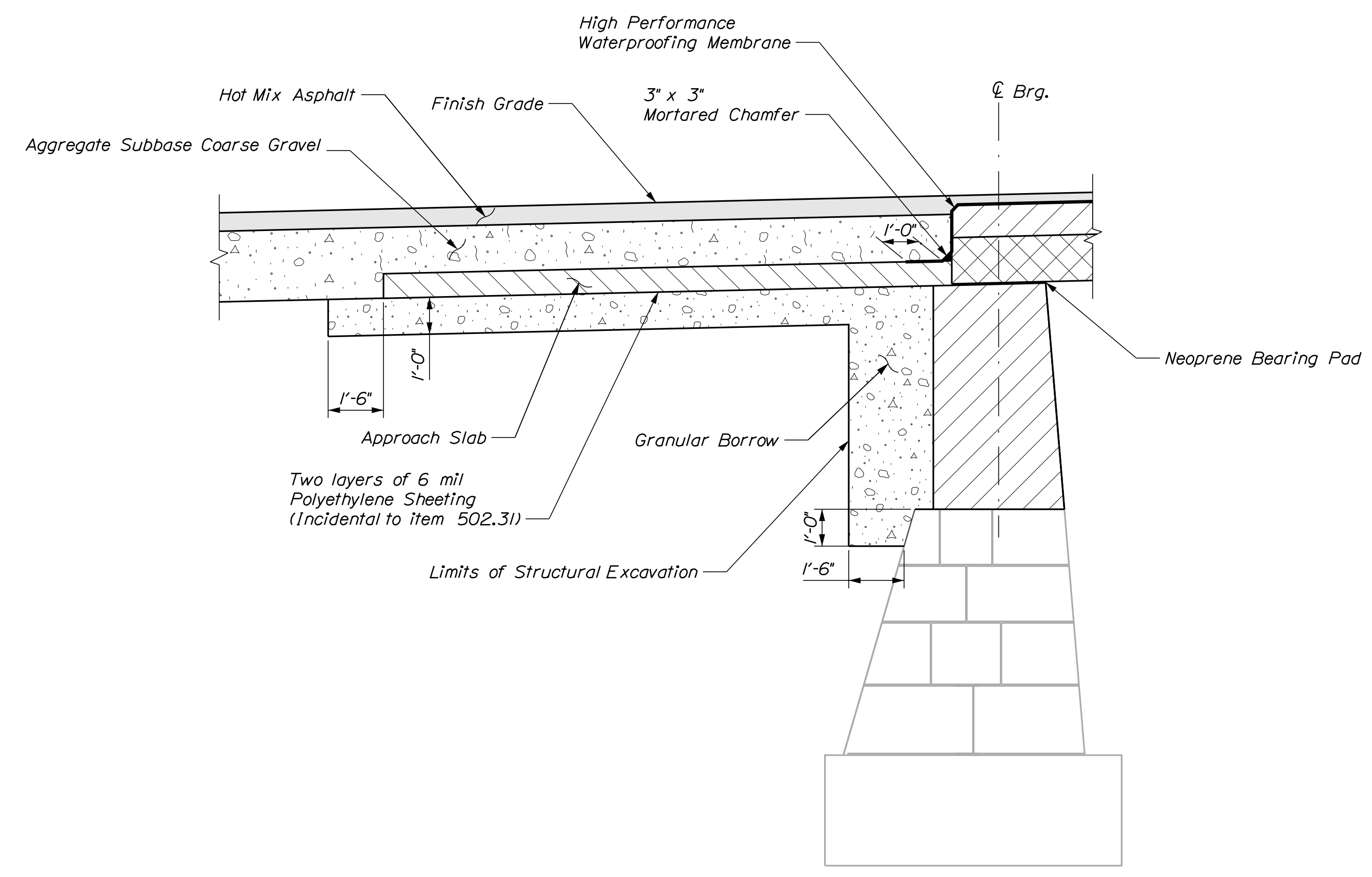
WELLS  
 BUFFAM BRIDGE  
 WEBHANNET RIVER  
 YORK COUNTY  
 CROSS SECTIONS

SHEET NUMBER  
 12  
 OF 27





TYPICAL ABUTMENT DEMOLITION

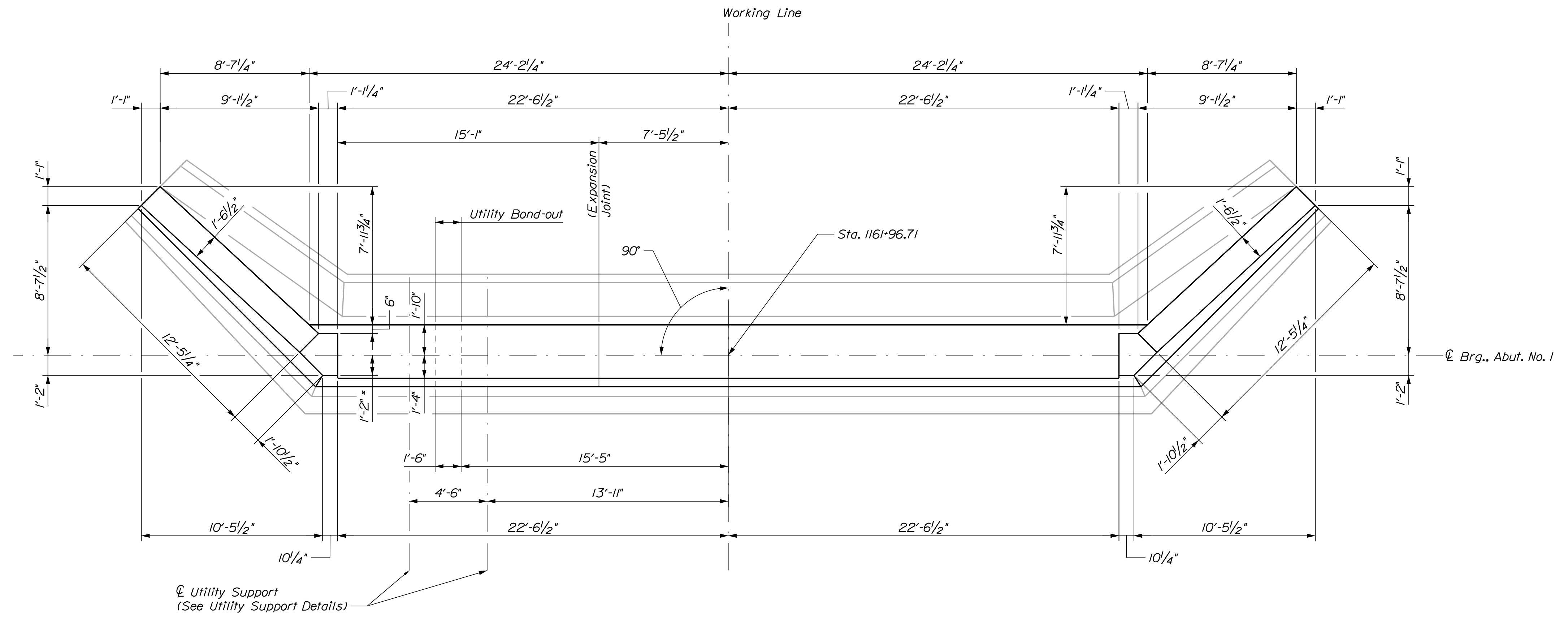
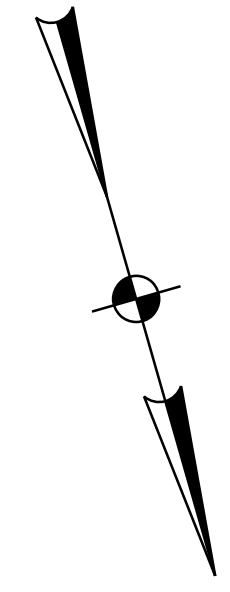


TYPICAL ABUTMENT SECTION

ABUTMENT NOTES

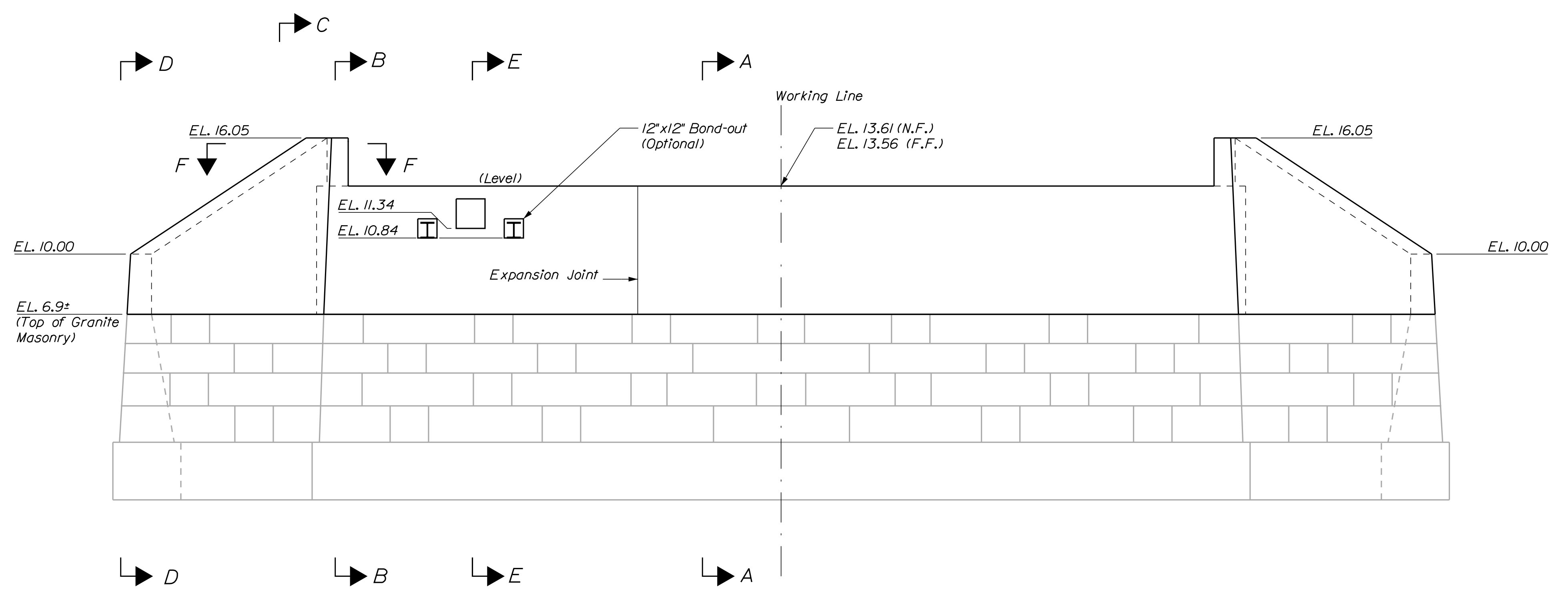
1. Reinforcing steel shall have a minimum concrete cover of 2 inches in the walls and 3 inches in the footings unless otherwise noted.
2. Cover joints where waterstops are not required in accordance with Standard Details Section 502.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2353500		WIN 023535.00		BRIDGE NO. 2107		BRIDGE PLANS	
BUFFAM BRIDGE WEBHANNET RIVER YORK COUNTY		WELLS		TYPICAL ABUTMENT DETAILS					
PROJ. MANAGER	BRIAN NICHOLS	BY	BRIAN NICHOLS	DATE	DEC 2023	SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED	R. MAJORS	CHECKED-REVIEWED	J. PRAUL	DATE	DEC 2023	SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		DESIGN-DETAILED		DATE		SIGNATURE		P.E. NUMBER	
REVISIONS 1		REVISIONS 1		DATE		SIGNATURE		P.E. NUMBER	
REVISIONS 2		REVISIONS 2		DATE		SIGNATURE		P.E. NUMBER	
REVISIONS 3		REVISIONS 3		DATE		SIGNATURE		P.E. NUMBER	
REVISIONS 4		REVISIONS 4		DATE		SIGNATURE		P.E. NUMBER	
FIELD CHANGES									
SHEET NUMBER									
14									
OF 27									



**ABUTMENT NO. 1 PLAN**

← Flow  
 Dimensions marked "\*" are approximate and may vary with actual field conditions of the existing abutments.



**ABUTMENT NO. 1 ELEVATION**

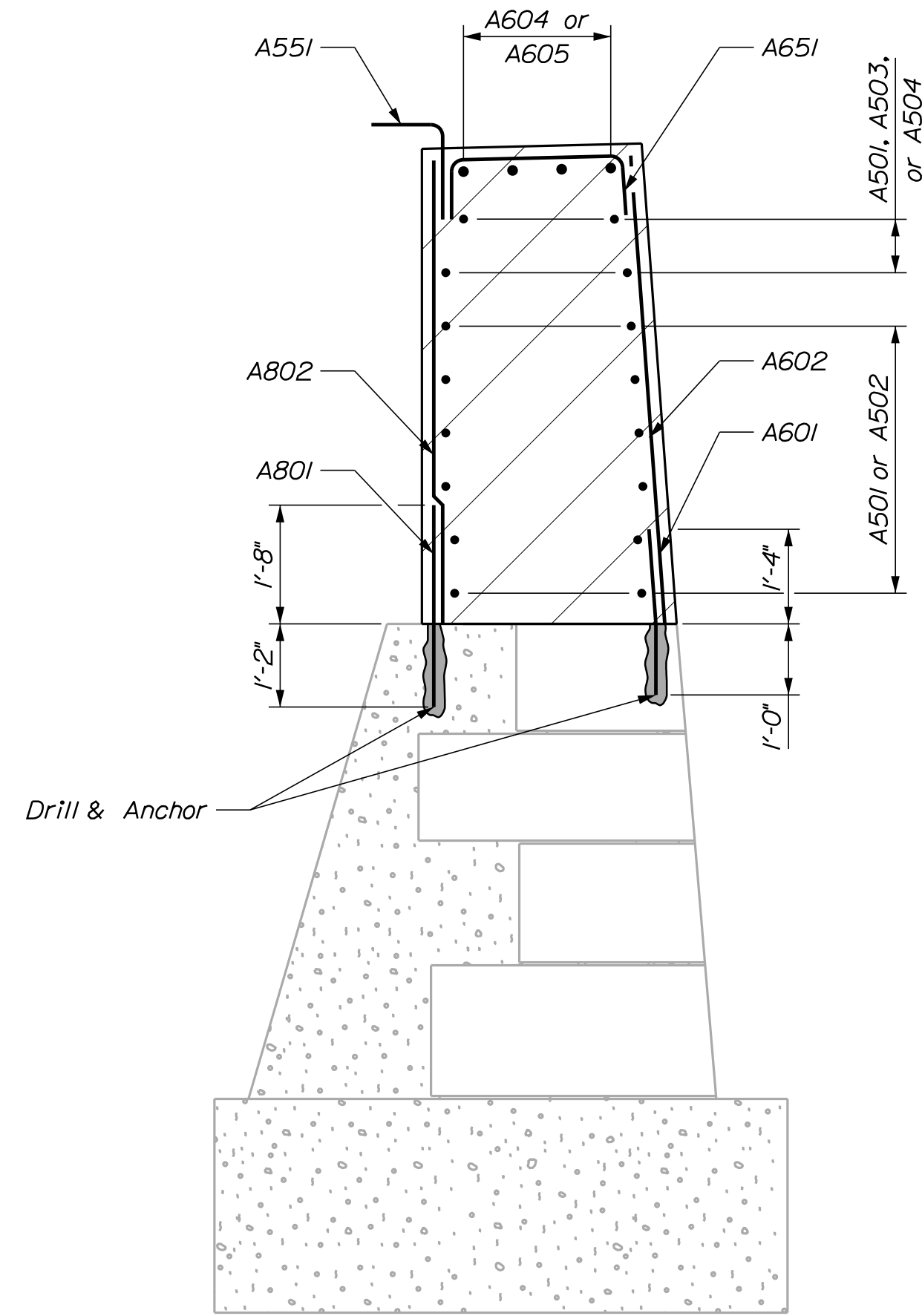
← Flow

DATE	BY	PROJ. MANAGER	DESIGNED	CHECKED	DESIGNED	REVISIONS	FIELD CHANGES
DEC 2023	MC/RBN	BRIAN NICHOLS	R. MAJORS	J. PRAHL		1	
DEC 2023	SLZ/EDB					2	
DEC 2023						3	
						4	

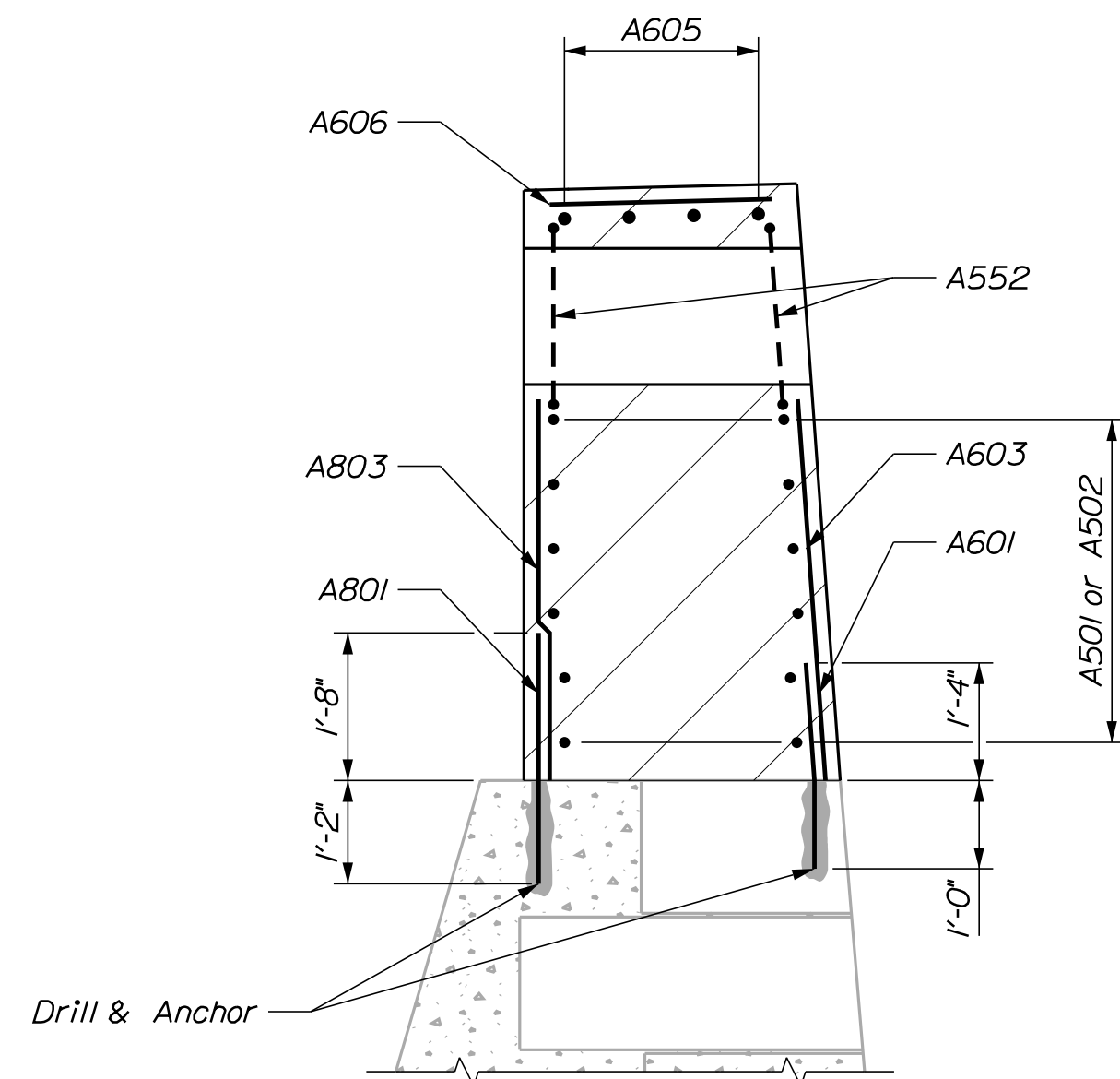
SIGNATURE	P.E. NUMBER	DATE

WELLS  
 BUFFAM BRIDGE  
 WEBHANNET RIVER  
 YORK COUNTY  
**ABUTMENT NO. 1  
 PLAN & ELEVATION**

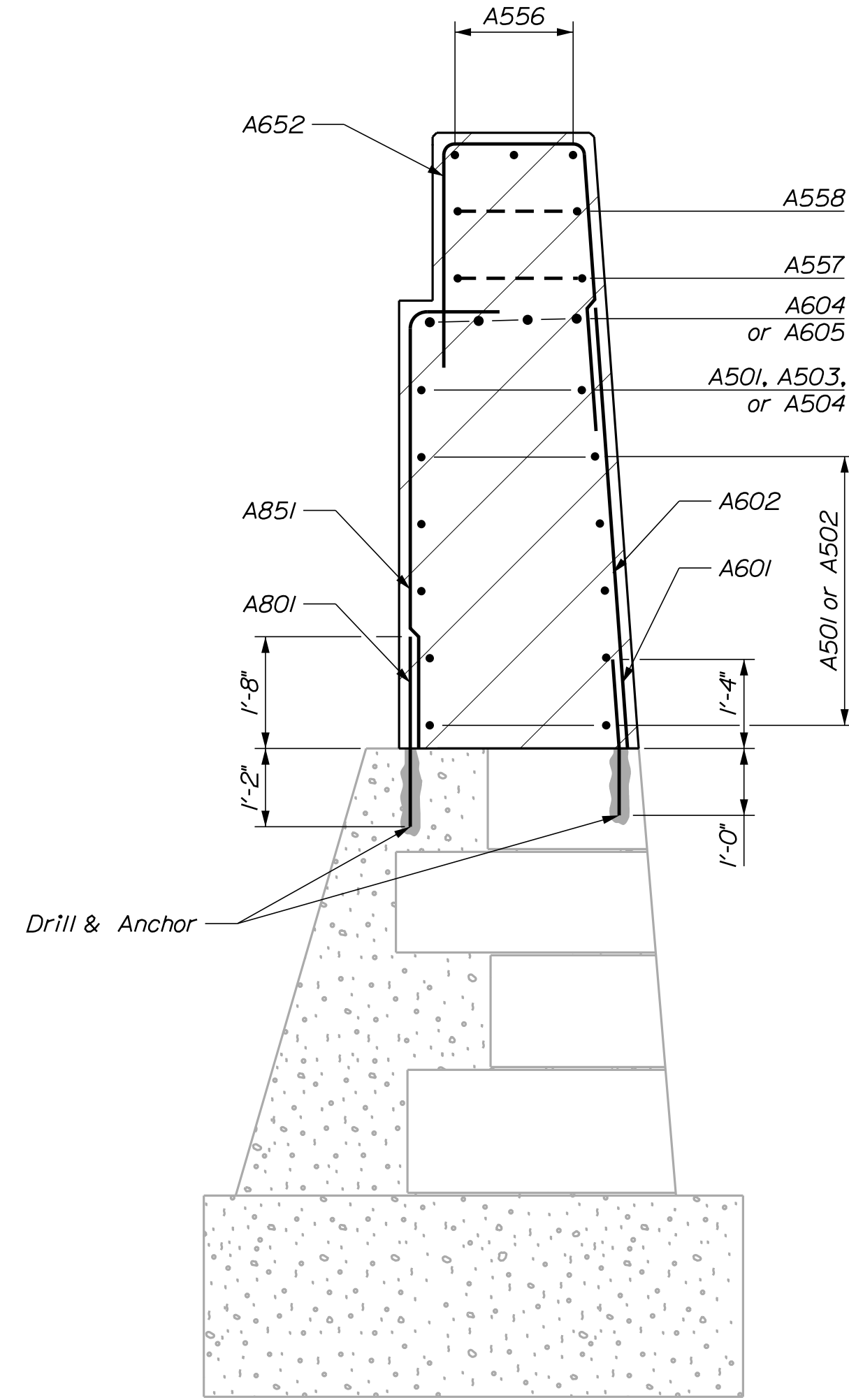




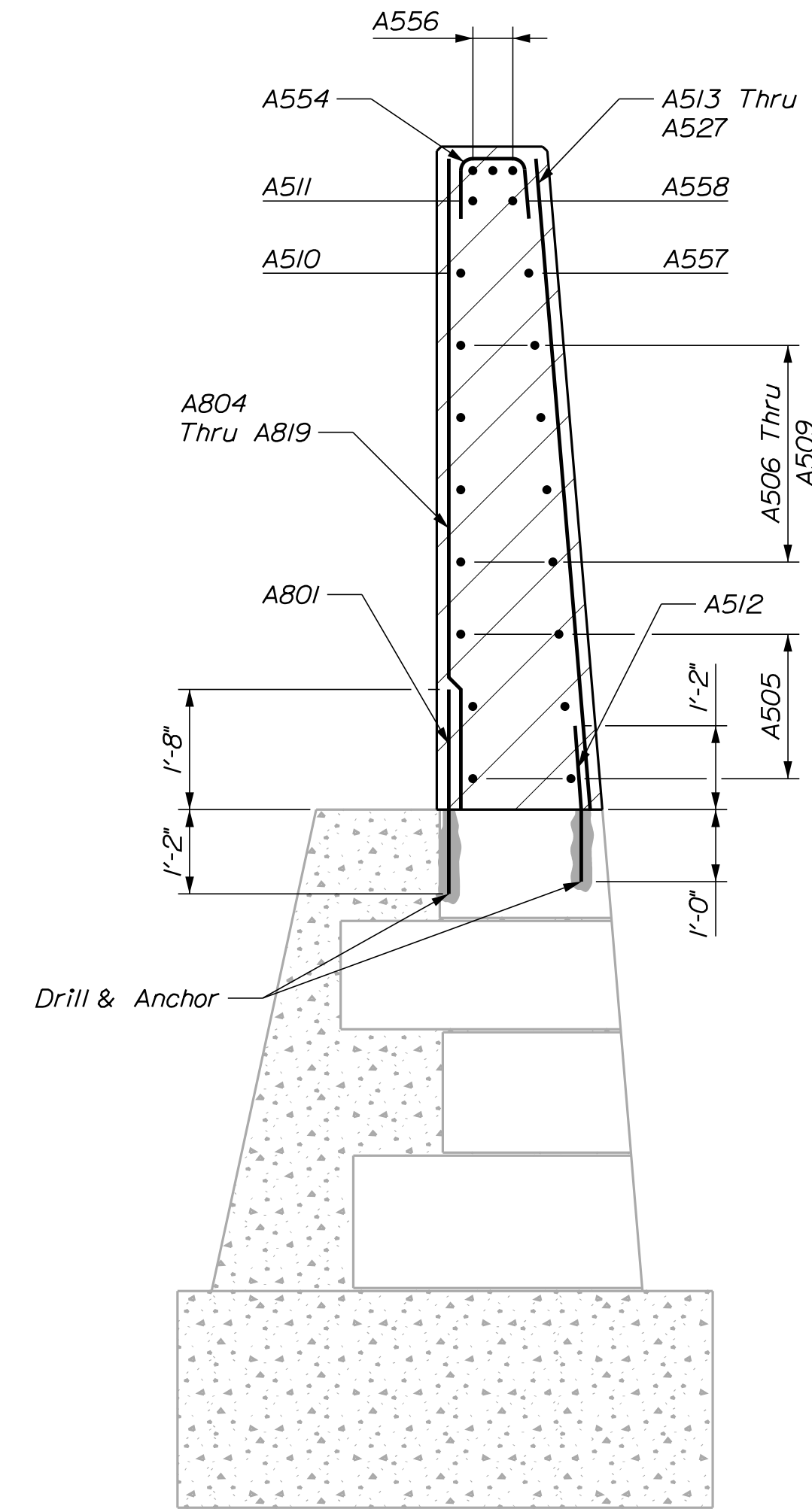
**ABUTMENT NO. 1  
BRESTWALL SECTION  
-SECTION A-A-**



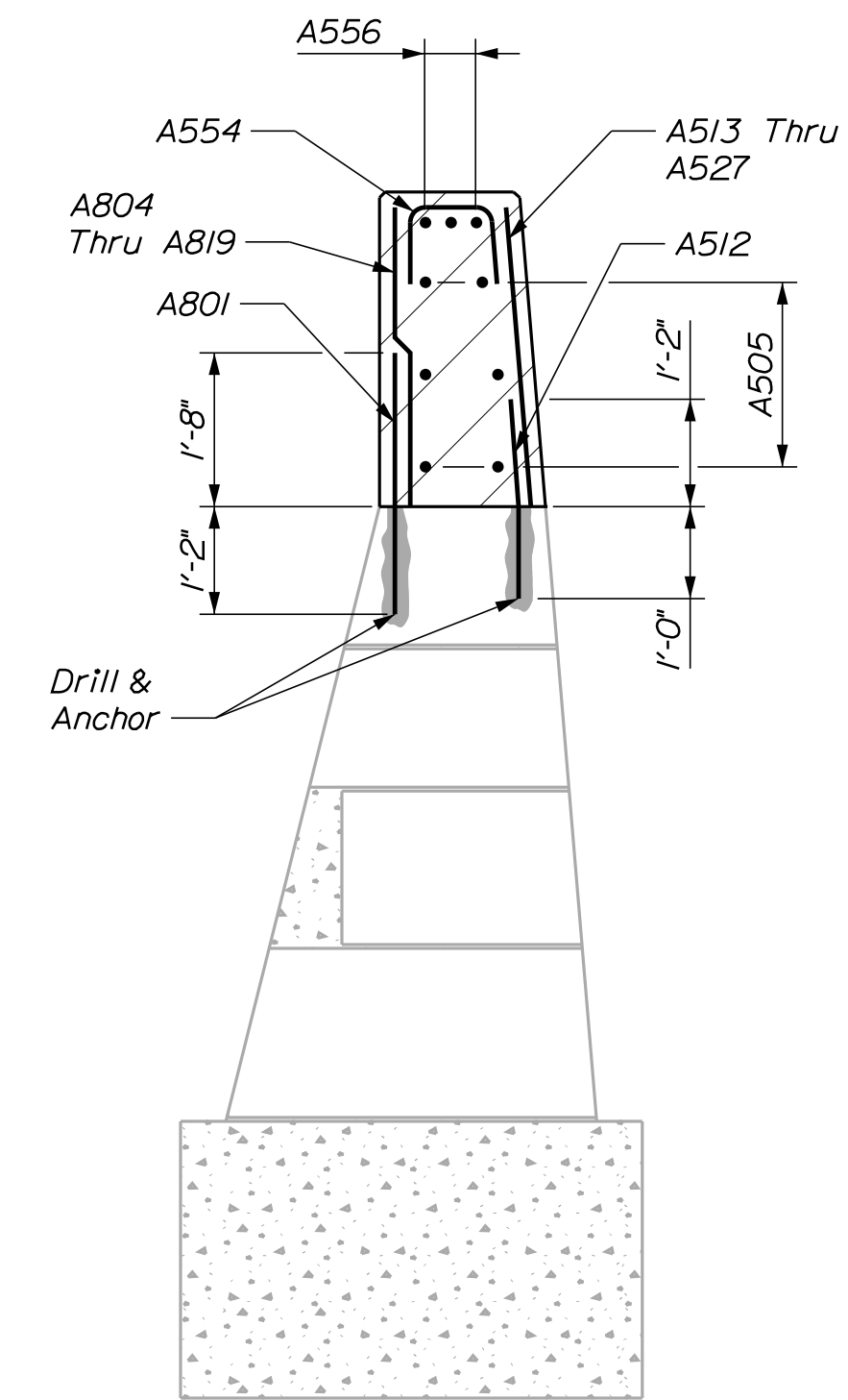
**ABUTMENT NO. 1  
BRESTWALL SECTION  
-SECTION E-E-**



**ABUTMENT NO. 1  
BRESTWALL SECTION  
-SECTION B-B-**



**ABUTMENT NO. 1  
WINGWALL SECTION  
-SECTION C-C-**

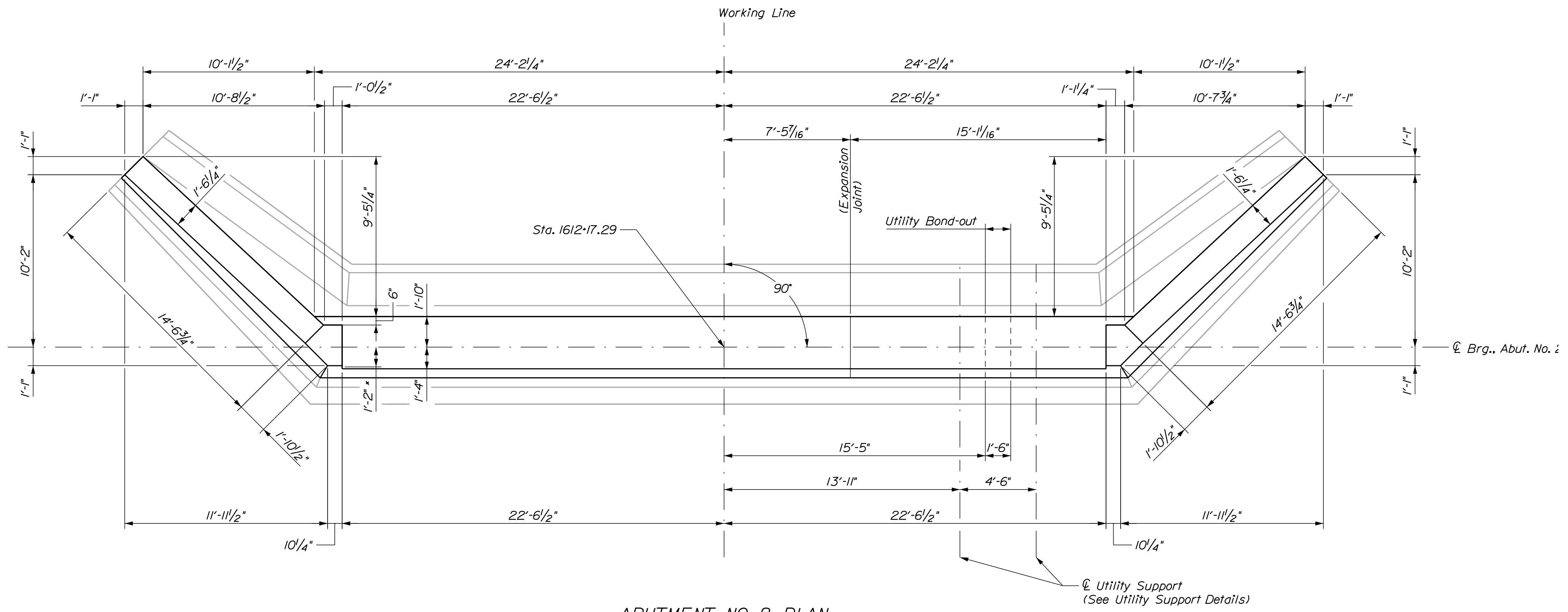
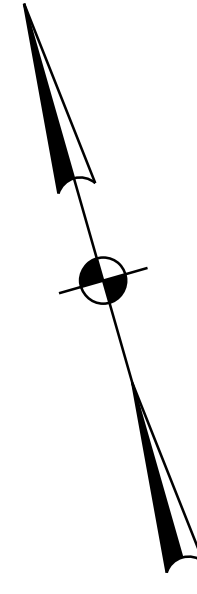


**ABUTMENT NO. 1  
WINGWALL SECTION  
-SECTION D-D-**

DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DEC 2023	MC/RJN	DEC 2023			
DEC 2023	SLZ/EDB	DEC 2023			

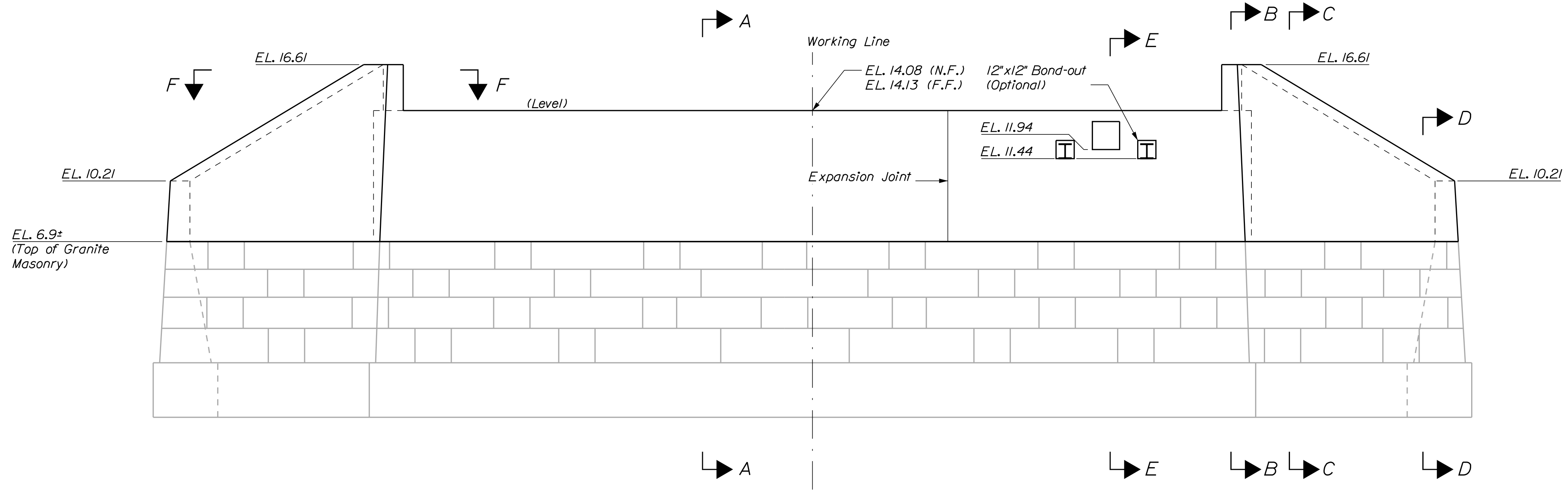
PROJ. MANAGER	BRIAN NICHOLS	DESIGN DETAILED	R. MAJORS	CHECKED	REVIEWED	J. PRAHL	DESIGN DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES

WELLS  
BUFFAM BRIDGE  
WEBHANNET RIVER  
YORK COUNTY  
**ABUTMENT NO. 1  
SECTIONS**



**ABUTMENT NO. 2 PLAN**

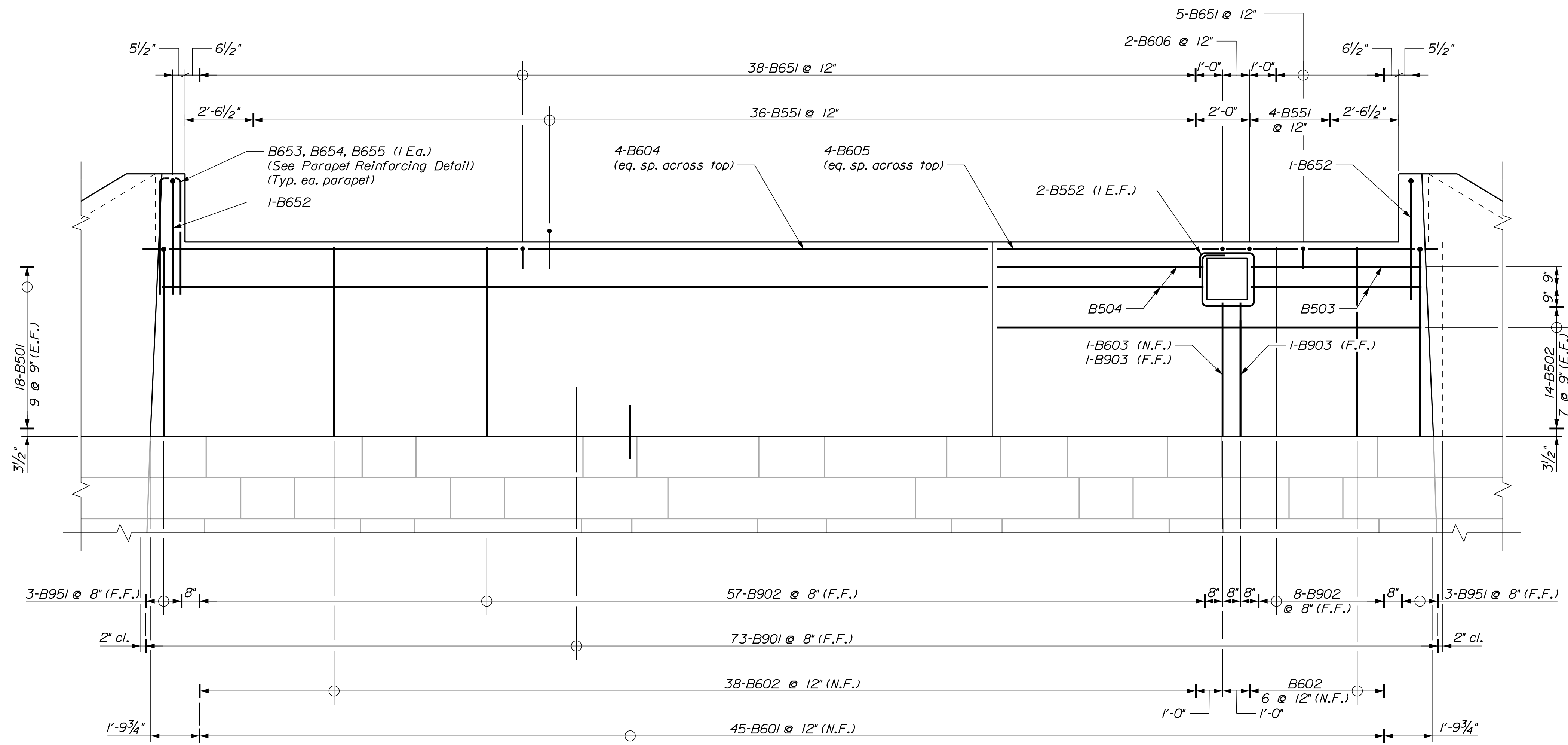
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 Dimensions marked "\*" are approximate and may vary with actual field conditions of the existing abutments.



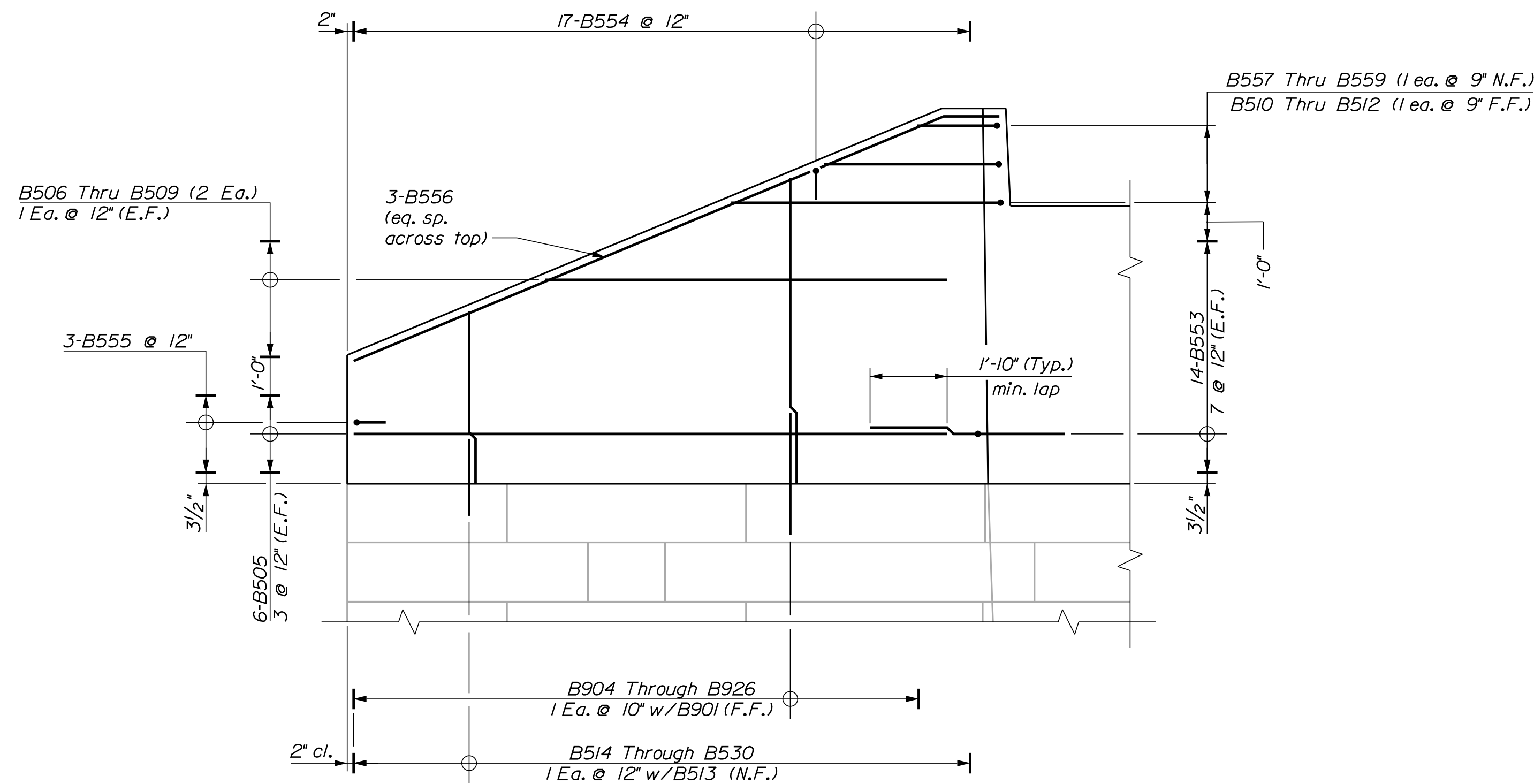
**ABUTMENT NO. 2 ELEVATION**

← Flow

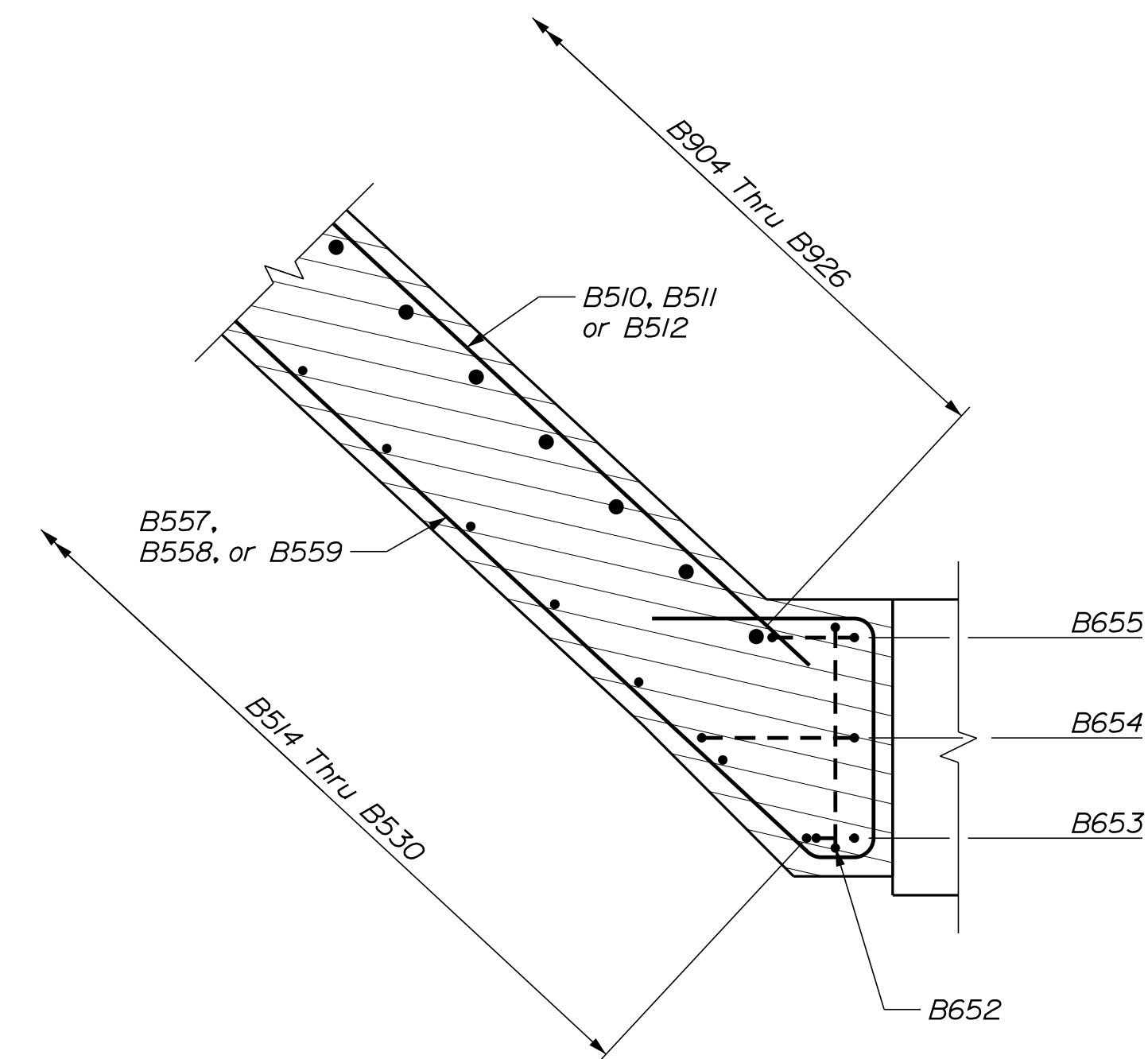
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2353500	
WELLS		WIN 023535.00	
BUFFAM BRIDGE WEBHANNET RIVER YORK COUNTY		BRIDGE NO. 2107	
ABUTMENT NO. 2 PLAN & ELEVATION		BRIDGE PLANS	
PROJ. MANAGER	BRIAN NICHOLS	DATE	DATE
DESIGN-DETAILED	R. MAOIS	DEC 2023	SIGNATURE
CHECKED-REVIEWED	J. PRAUL	DEC 2023	P.E. NUMBER
DESIGN-DETAILED			DATE
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SHEET NUMBER			
18			
OF 27			



ABUTMENT NO. 2 REINFORCING  
← Flow



ABUTMENT NO. 2 WINGWALL ELEVATION  
Upstream wingwall shown - Downstream wingwall opposite hand



PARAPET REINFORCING DETAIL  
-SECTION 'F-F'-

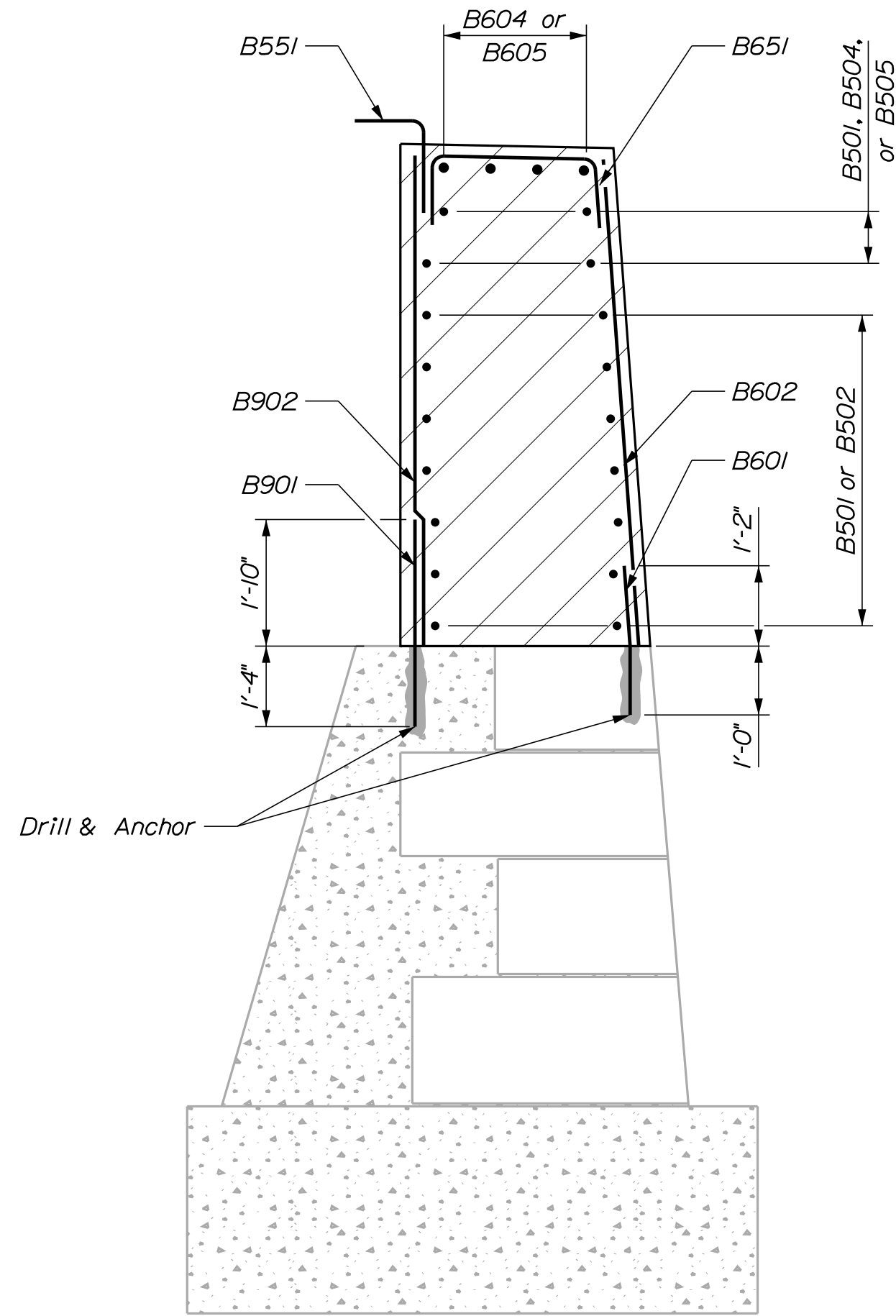
PROJ. MANAGER	BY	DATE
BRIAN NICHOLS	MC/RUN	DEC 2023
DESIGN-DETAILED	MC/RUN	DEC 2023
CHECKED-REVIEWED	J.PRAUL	DEC 2023
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
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FIELD CHANGES		

BUFFAM BRIDGE  
WEBHANNET RIVER  
YORK COUNTY  
WELLS  
ABUTMENT 2 REINFORCING

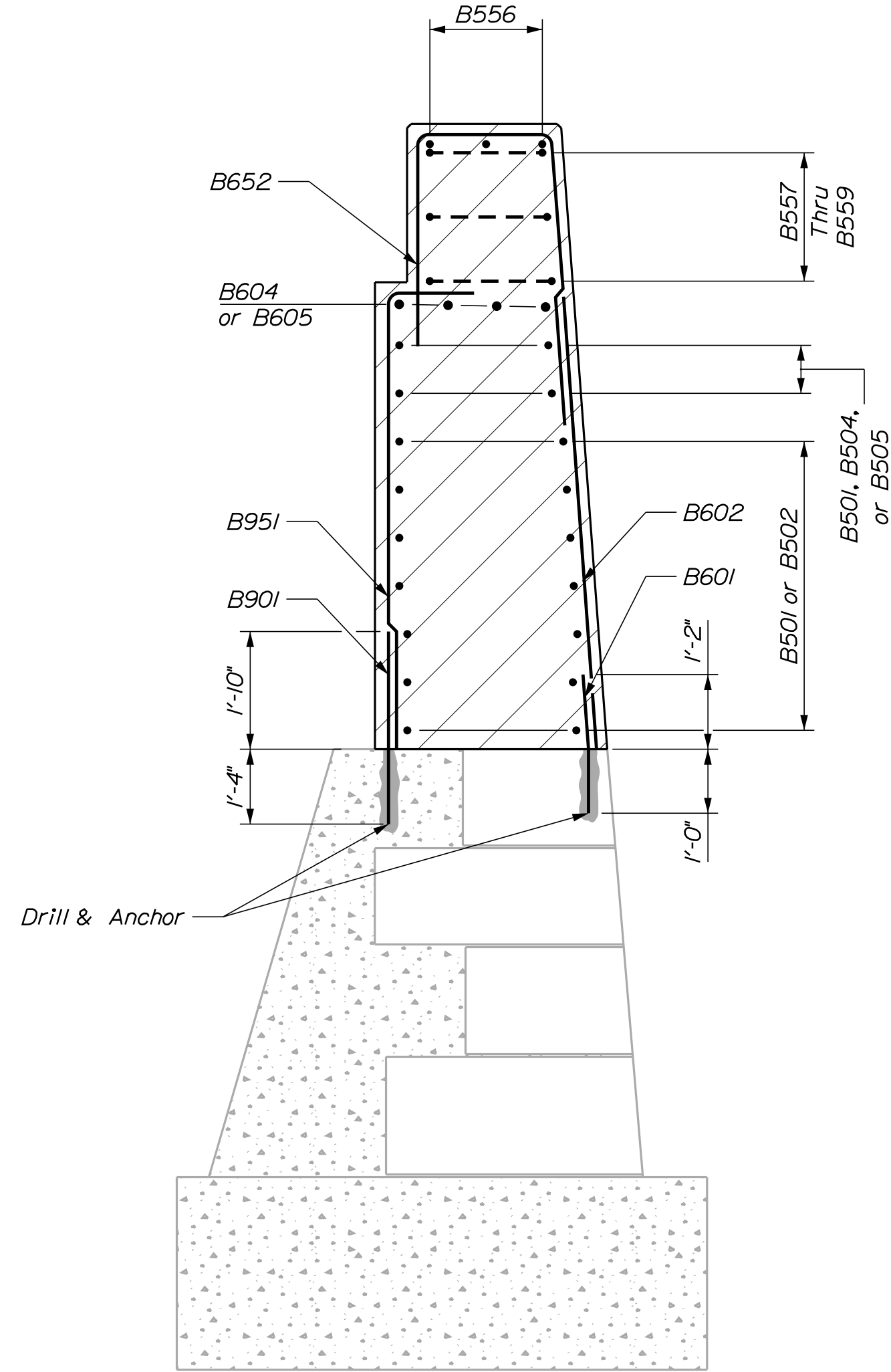
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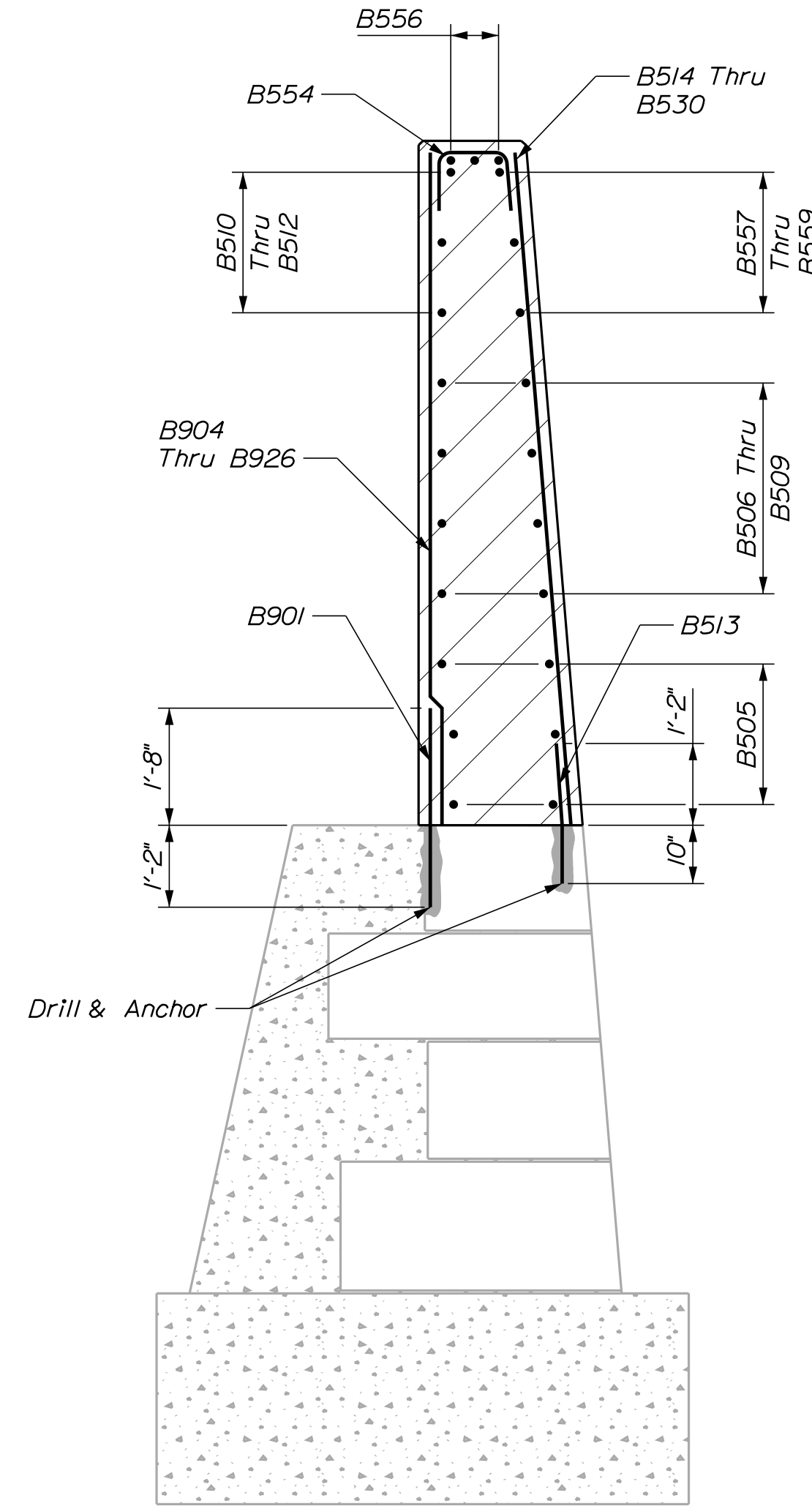
OF 27



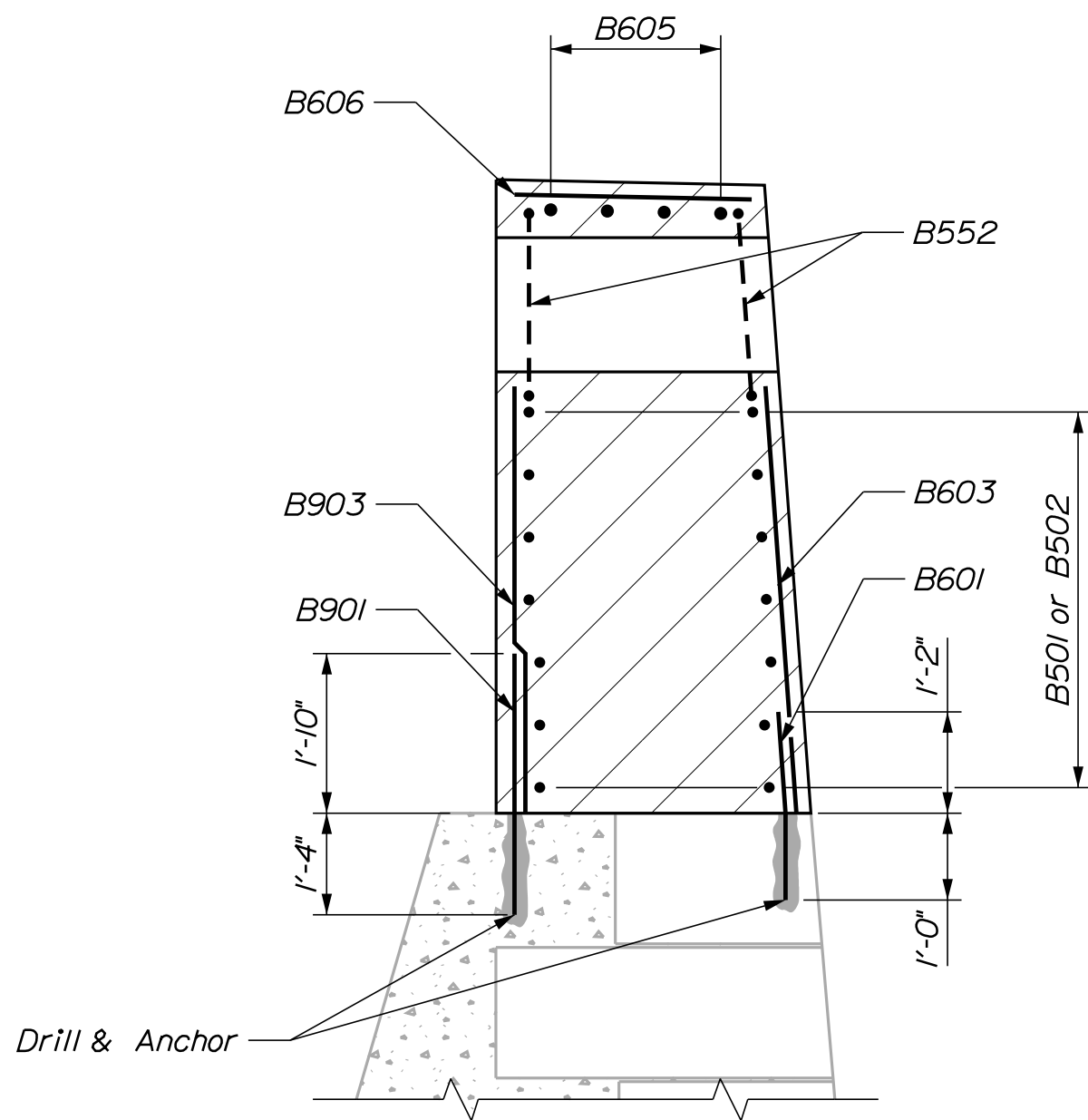
**ABUTMENT NO. 2**  
**BRESTWALL SECTION**  
SECTION A-A



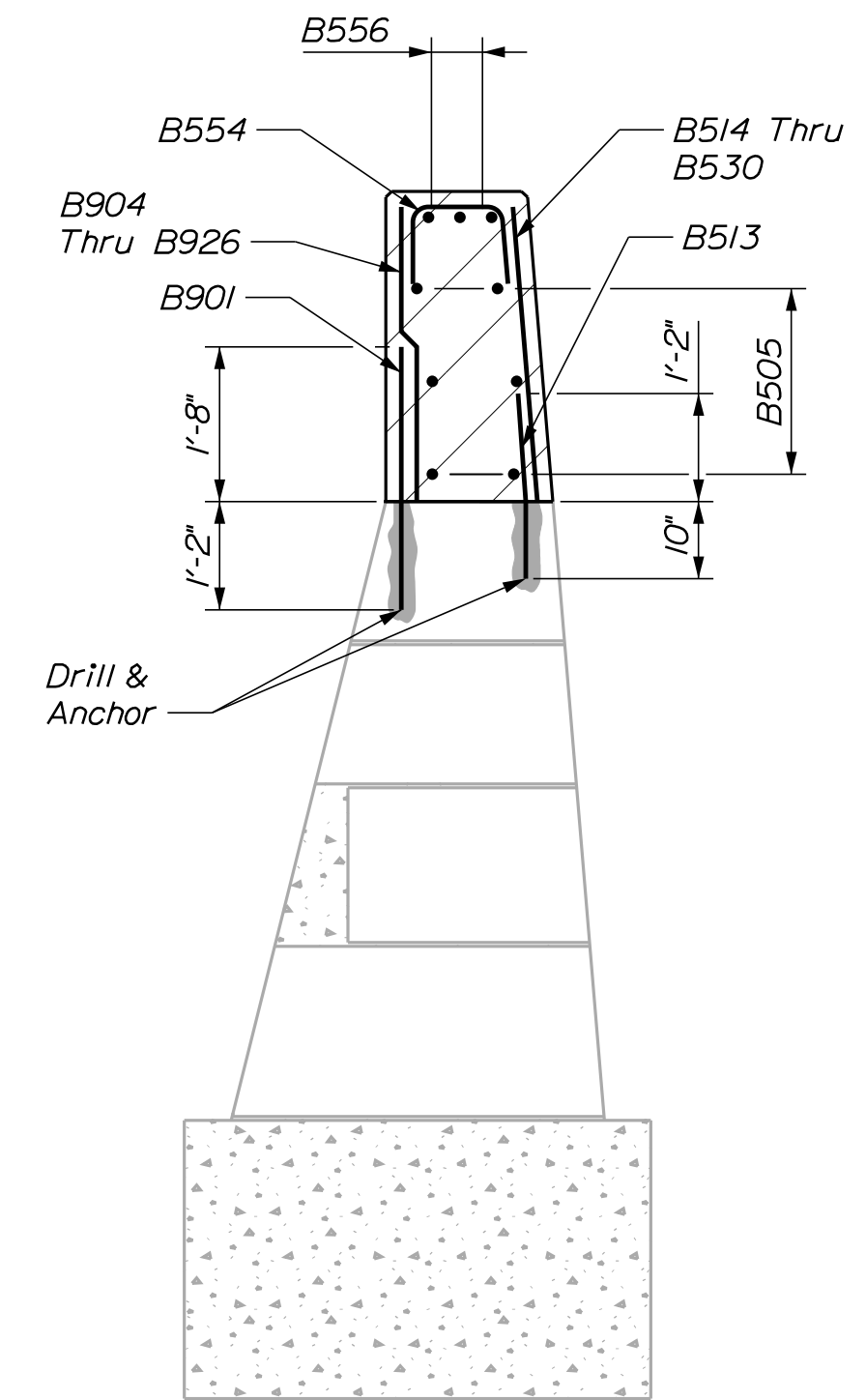
**ABUTMENT NO. 2**  
**BRESTWALL SECTION**  
SECTION B-B



**ABUTMENT NO. 2**  
**WINGWALL SECTION**  
SECTION C-C



**ABUTMENT NO. 2**  
**BRESTWALL SECTION**  
SECTION E-E



**ABUTMENT NO. 2**  
**WINGWALL SECTION**  
SECTION D-D

PROJ. MANAGER	BRIAN NICHOLS	BY	DATE
DESIGN-DETAILED	R. MAJUS	MC/RJN	DEC 2023
CHECKED-REVIEWED	J. PRAUL	SLZ/EDB	DEC 2023
DESIGN-DETAILED			DEC 2023
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WELLS  
BUFFAM BRIDGE  
WEBHANNET RIVER  
YORK COUNTY

**ABUTMENT NO. 2**  
**SECTIONS**

SHEET NUMBER

20

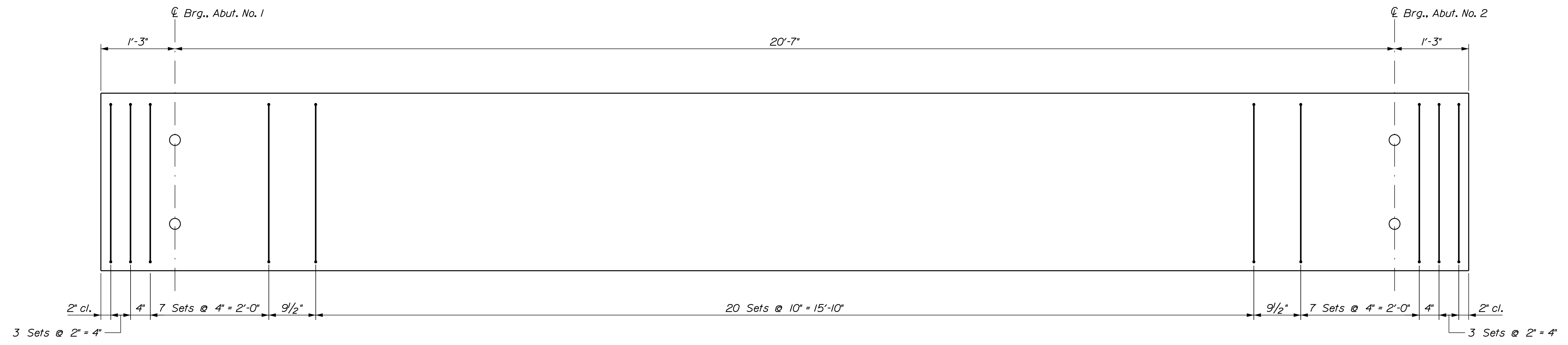
OF 27

Date: 12/14/2023

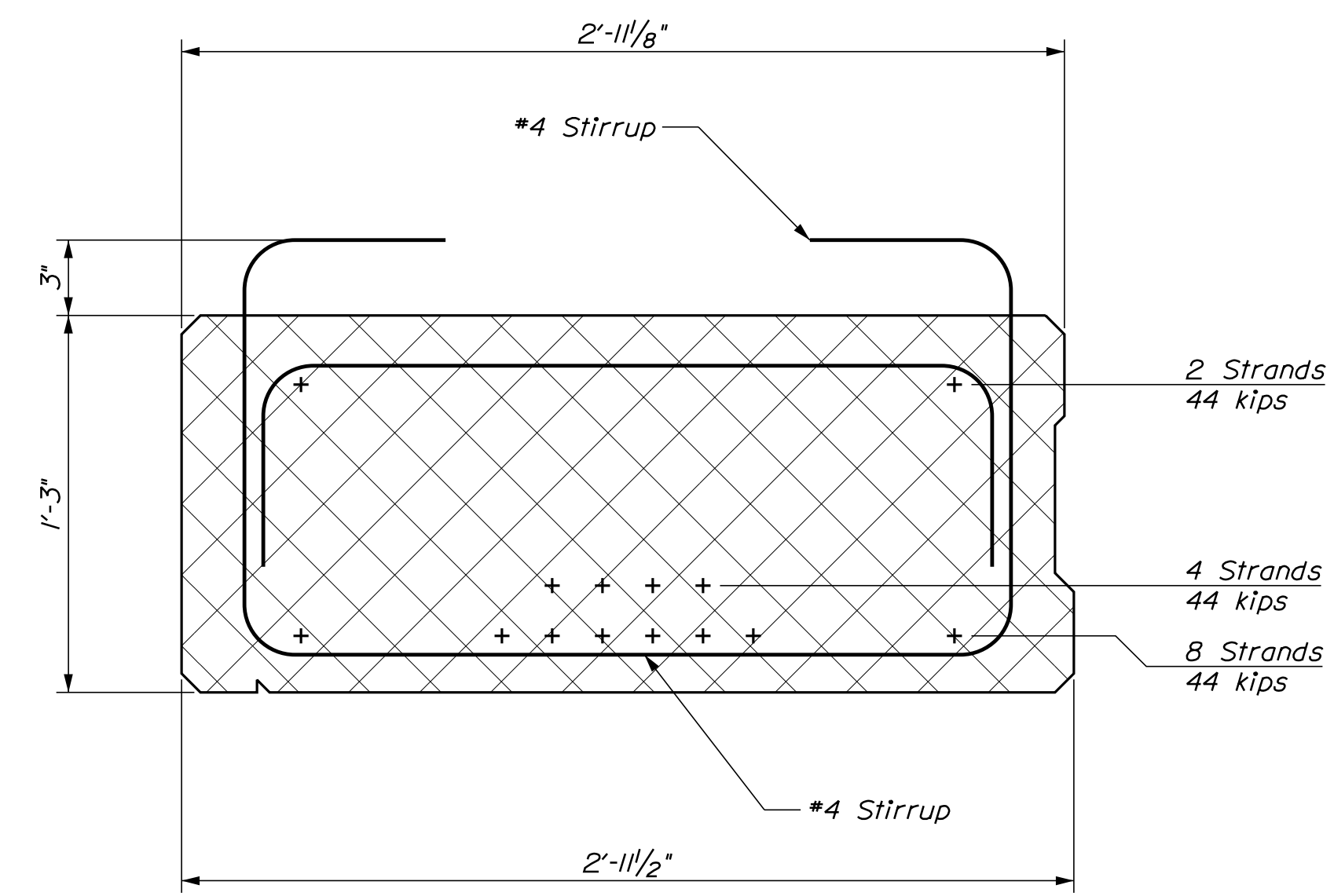
Username: Brian.Nichols

Division: BRIDGE

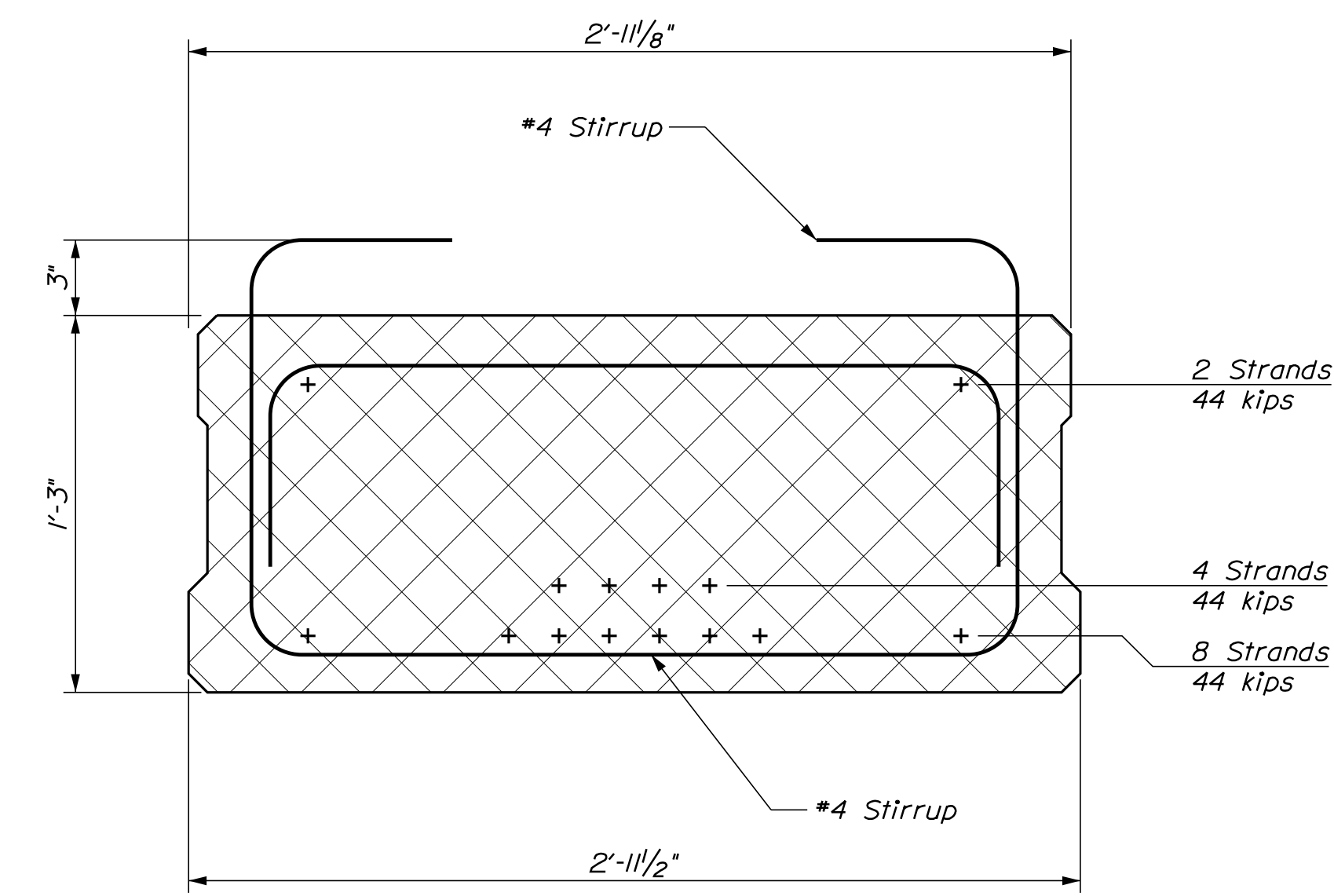
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PRECAST SLAB PLAN AND SHEAR REINFORCEMENT LAYOUT

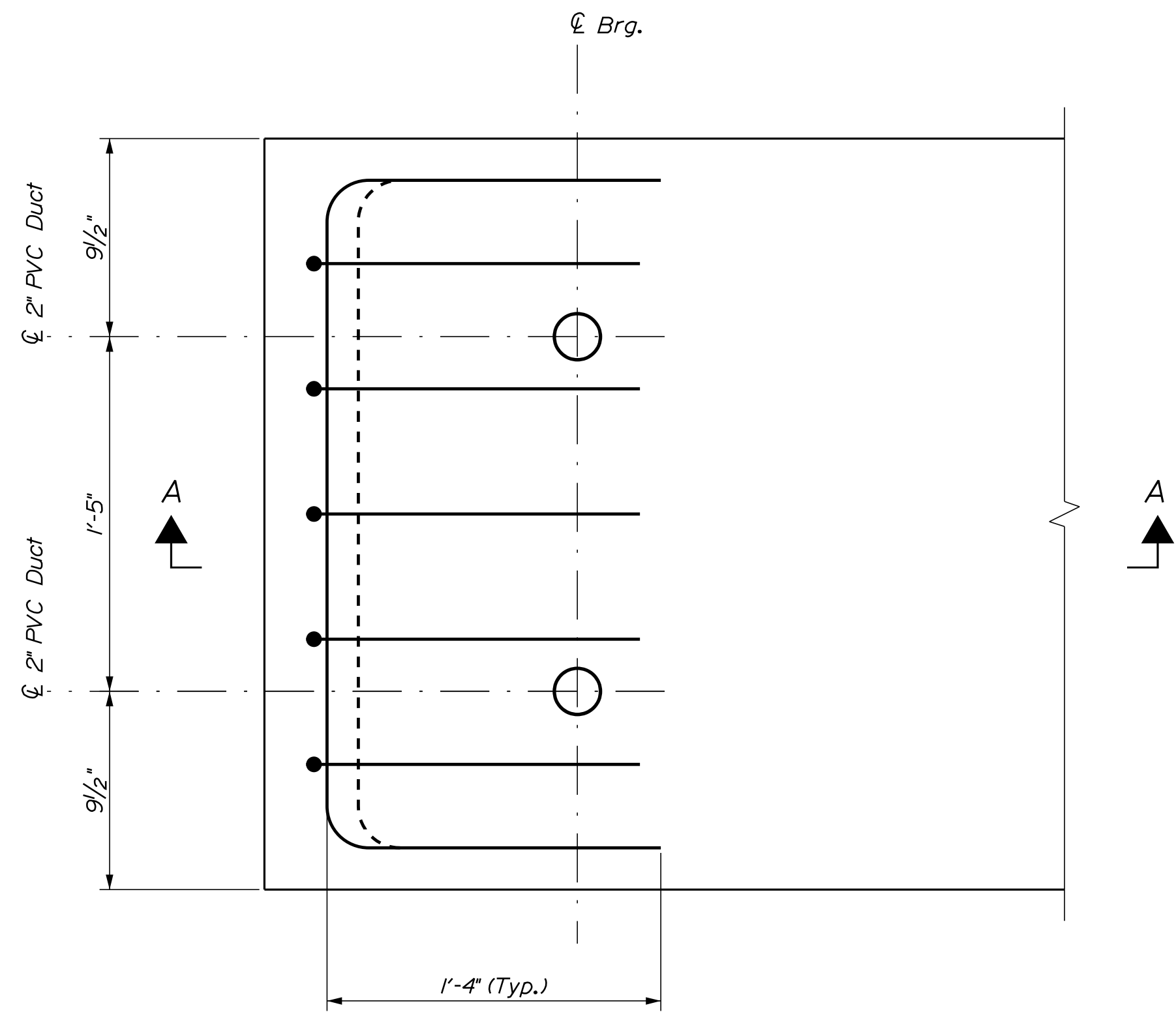


EXTERIOR SLAB SECTION  
+ = 0.6" Strand - Fully Bonded  
Slab No. 1 Shown, Slab No. 15 opposite hand

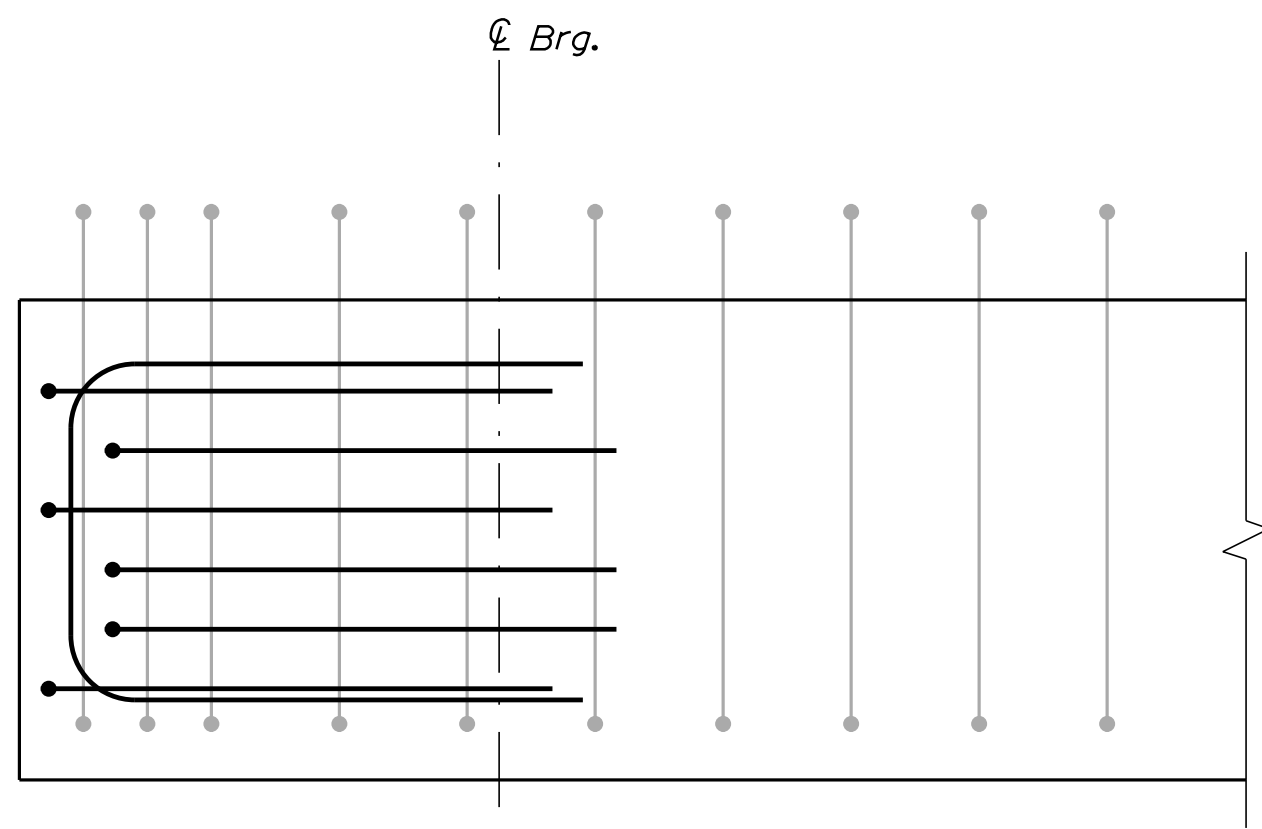


INTERIOR SLAB SECTION  
+ = 0.6" Strand - Fully Bonded

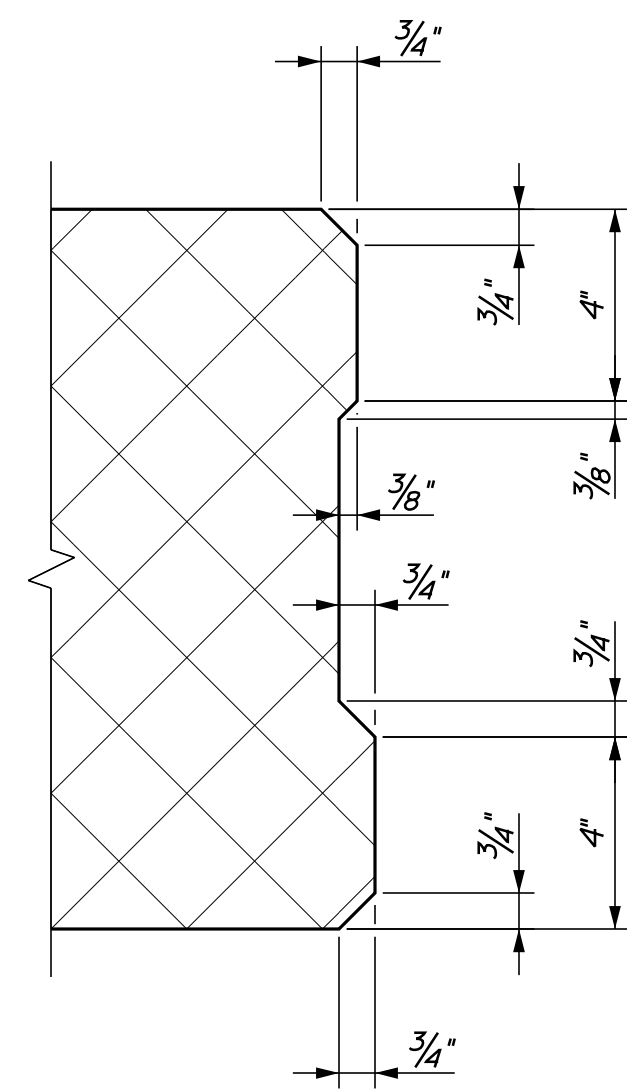
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2353500	
WELLS		BUFFAM BRIDGE		YORK COUNTY	
WEBHANNET RIVER		PRECAST SLABS		BRIDGE NO. 2107	
SHEET NUMBER		WIN		023535.00	
21		DATE		BRIDGE PLANS	
OF 27		SIGNATURE		P.E. NUMBER	
		DATE		DATE	
PROJ. MANAGER	BRIAN NICHOLS	BY	MC/BJN	DATE	DEC 2023
DESIGN-DETAILED	R.MAQUIS	CHECKED-REVIEWED	J.PRAUL	DATE	DEC 2023
DESIGN-DETAILED		DESIGN-DETAILED		DATE	DEC 2023
REVISIONS 1		REVISIONS 1		DATE	
REVISIONS 2		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 3		DATE	
REVISIONS 4		REVISIONS 4		DATE	
FIELD CHANGES					



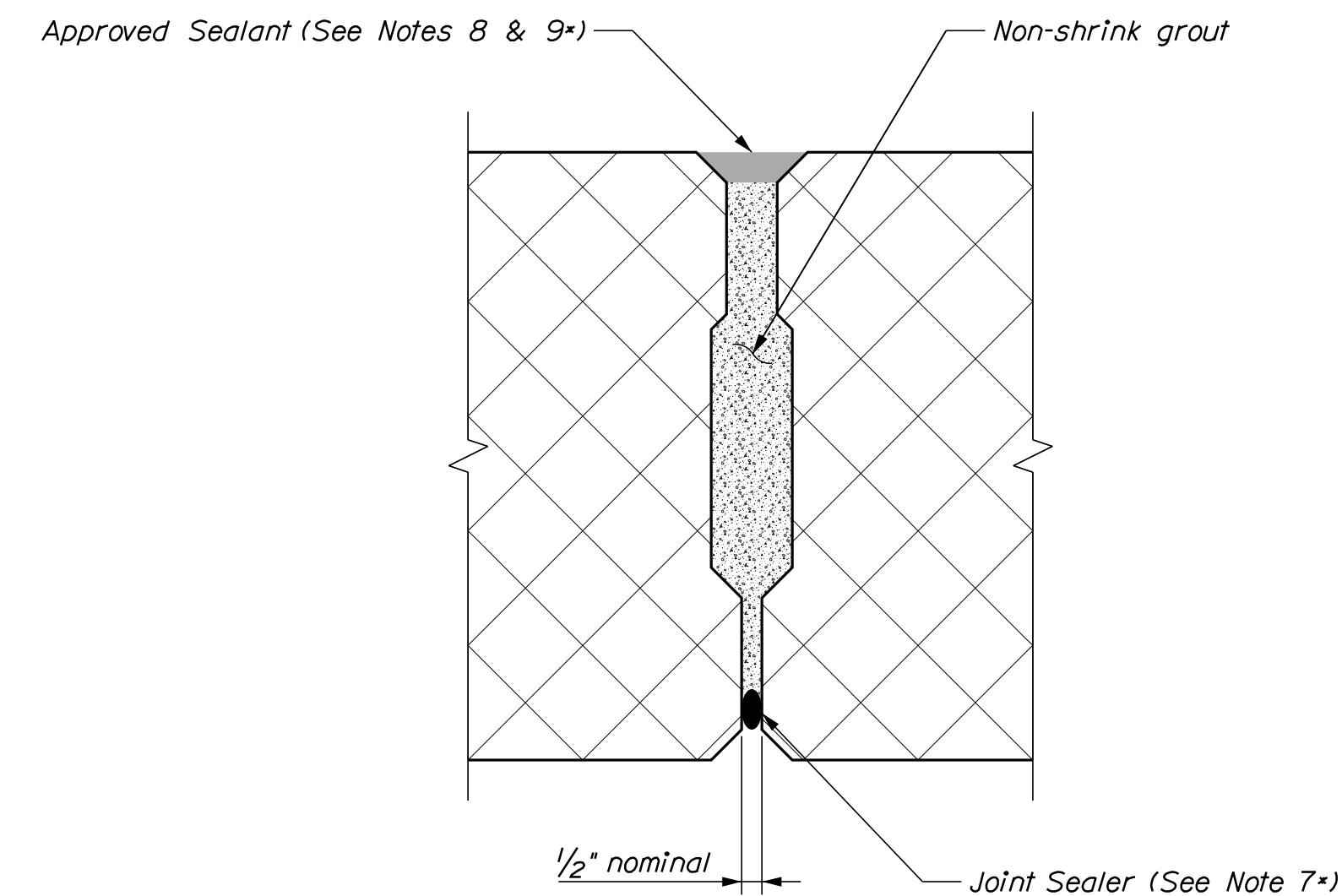
SLAB END REINFORCEMENT



SLAB END REINFORCEMENT  
-Section "A"-



SHEAR KEY DIMENSIONS



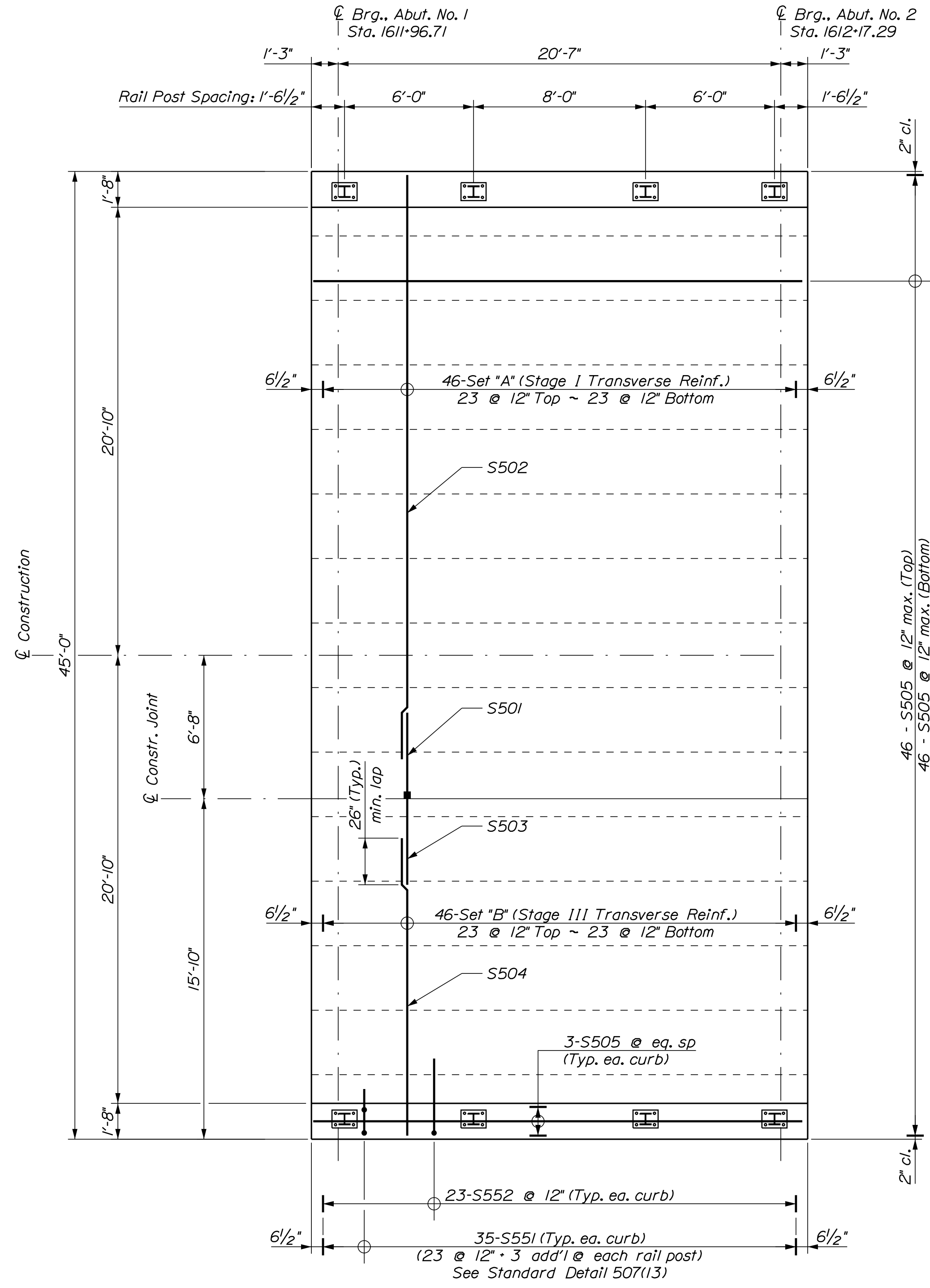
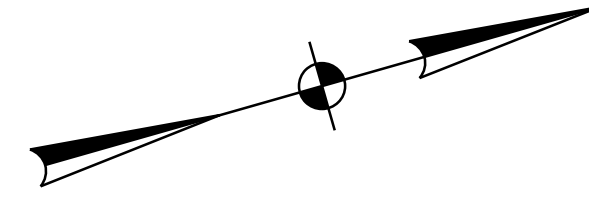
SHEAR KEY DETAIL  
\*Precast Superstructure Notes Standard Detail 5.35(17)

PRECAST CONCRETE SUPERSTRUCTURE NOTES

1. Prestressing strands shall be 0.6-in. diameter. The tensioning force is 44 kips per prestressing strand.
2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
3. The top surface of the upper flange of the prestressed beams shall be raked to a surface roughness of  $\pm 1/4$  inch, except at locations corresponding to the blocking points. At these locations a flattened area of sufficient size shall be finished to facilitate taking elevations for setting bottom of slab elevations.
4. The drilling of holes in the prestressed beams and the use of power actuated tools on the beams will not be permitted.
5. Neoprene pads shall be either polychloroprene or natural polyisoprene of 50 $\pm$  5 Shore A durometer hardness, and shall conform to the requirements of Division 2, Section 18.2 of AASHTO Standard Specifications for Highway Bridges. Neoprene pads will not be paid for directly but will be considered incidental to related contract items.
6. Screenshot rails shall be installed to the elevation shown on the profile, adjusted for wearing course thickness and cross slope.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2353500		WIN		023535.00		BRIDGE NO. 2107		BRIDGE PLANS	
BUFFAM BRIDGE		WEBHANNET RIVER		YORK COUNTY		WELLS		PRECAST SLABS		SHEET NUMBER		22	
PROJ. MANAGER	BRIAN NICHOLS	DESIGN-DETAILED	R. MAJORS	CHECKED-REVIEWED	J. PRAUL	DESIGN-DETAILED	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE	
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4							
FIELD CHANGES													





**SUPERSTRUCTURE PLAN**

Set "A" = S501 w/ Mech. Coupler, S502  
 Set "B" = S503, S504

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
**2353500**  
 WIN  
 023535.00  
 BRIDGE NO. 2107  
 BRIDGE PLANS

DESIGN-DETAILED	DATE	BY	DATE
CHECKED-REVIEWED	DEC 2023	MC/BJN	DEC 2023
DESIGN-DETAILED	DEC 2023	SJZ/EDB	DEC 2023
DESIGN-DETAILED	DEC 2023		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

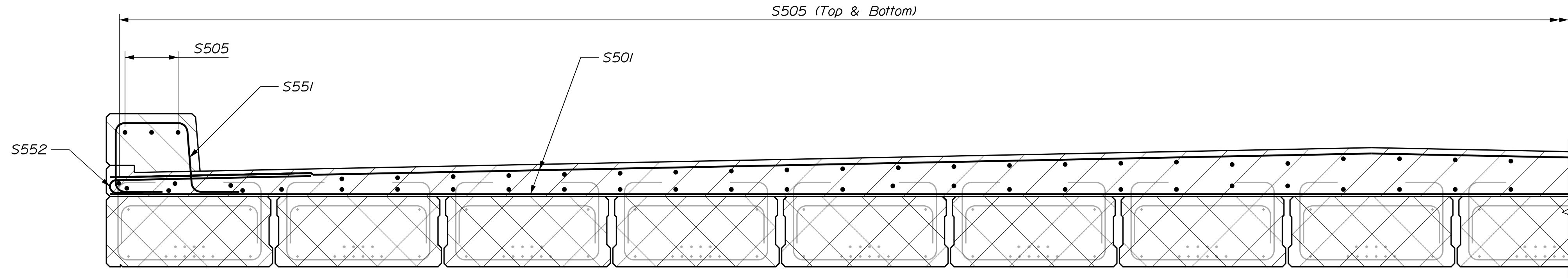
PROJ. MANAGER	BRIAN NICHOLS	BY	DATE
DESIGN-DETAILED	RAMAUS	MC/BJN	DEC 2023
CHECKED-REVIEWED	J.PRAUL	SJZ/EDB	DEC 2023
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WELLS  
 BUFFAM BRIDGE  
 WEBHANNET RIVER  
 YORK COUNTY  
**SUPERSTRUCTURE DETAILS**

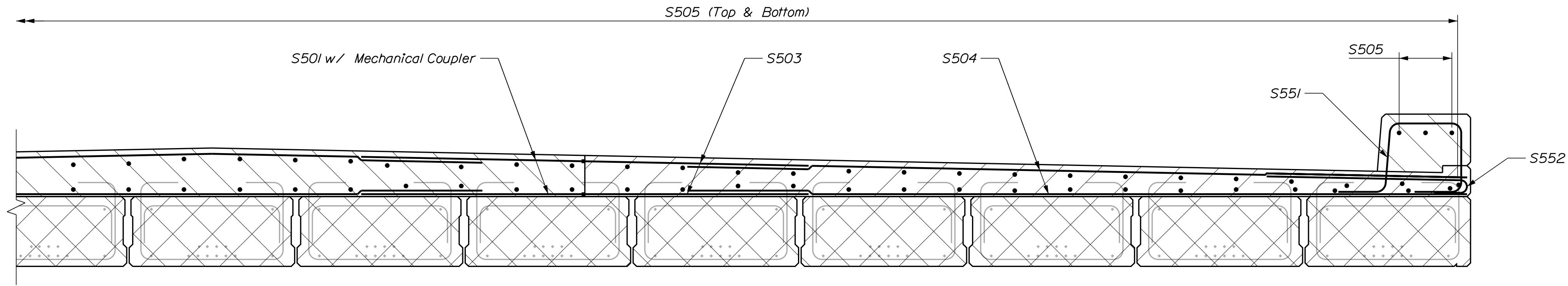
SHEET NUMBER

**24**

OF 27



PARTIAL DECK REINFORCING SECTION  
Upstream Portion Shown



PARTIAL DECK REINFORCING SECTION  
Downstream Portion Shown

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
2353500  
WIN  
023535.00  
BRIDGE NO. 2107  
BRIDGE PLANS

DESIGNED BY: R. MAJORS  
CHECKED BY: J. PRAUL  
DESIGNED DATE: DEC 2023  
CHECKED DATE: DEC 2023  
SIGNATURE: \_\_\_\_\_  
P.E. NUMBER: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJ. MANAGER	BRIAN NICHOLS	BY	DATE
DESIGN DETAIL	R. MAJORS	MC/BJN	DEC 2023
CHECKED/REVIEWED	J. PRAUL	SLZ/EDB	DEC 2023
DESIGN DETAIL			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WELLS  
BUFFAM BRIDGE  
WEBHANNET RIVER  
YORK COUNTY  
DECK REINFORCING SECTIONS

SHEET NUMBER  
**25**  
OF 27



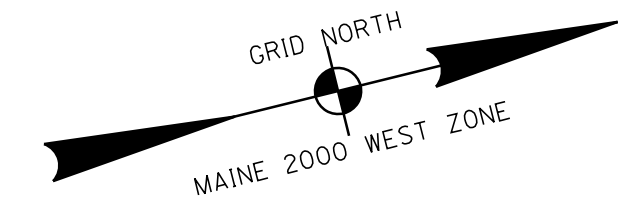
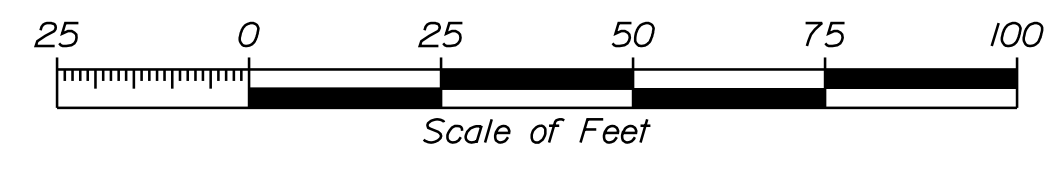
Town, County, State	_____
Approx. Property Lines	P.L.
Existing Right of Way	_____
Limits of Wrought Portion	L.O.W.P.
Control Of Access	C.O.A.
New Right of Way	_____
New Easement	_____
New Temporary Rights	_____
New R/W Within Existing R/W	_____

New R/W Along Existing R/W	_____
Building	_____
Trees	Conifer _____ Deciduous _____
Water Edge	_____
Ledge	_____
Fence	CHAIN LINK _____ BARB WIRE _____ STOCKADE _____
Sign	_____
Clearing Limit Line	_____
Bush Line	_____
Rock/Boulder	_____
Flag Pole	_____
Well	_____
Mallbox	_____

PLAN LEGEND	
Existing	Proposed
Sanitary Sewer	_____
Telephone Line	_____
Electric Line	_____
Water Line	_____
Underdrain Line	_____
Gas Line	_____
Guardrail	_____
Culvert	_____
Travelled Way	_____
Ditch	_____
Catch Basin	_____
Manhole	_____
Sewer Manhole	_____
Utility Pole	_____
Fire Hydrant	_____
Curbing	_____

Cut Line	_____
Stonewall	_____
Baseline	_____
Monument	_____
Iron Rod Found	IRF
Replacement Pin Set	_____
Fill Line	_____
Retaining Wall	_____
Traverse Point	_____
Pipe Found	IPF

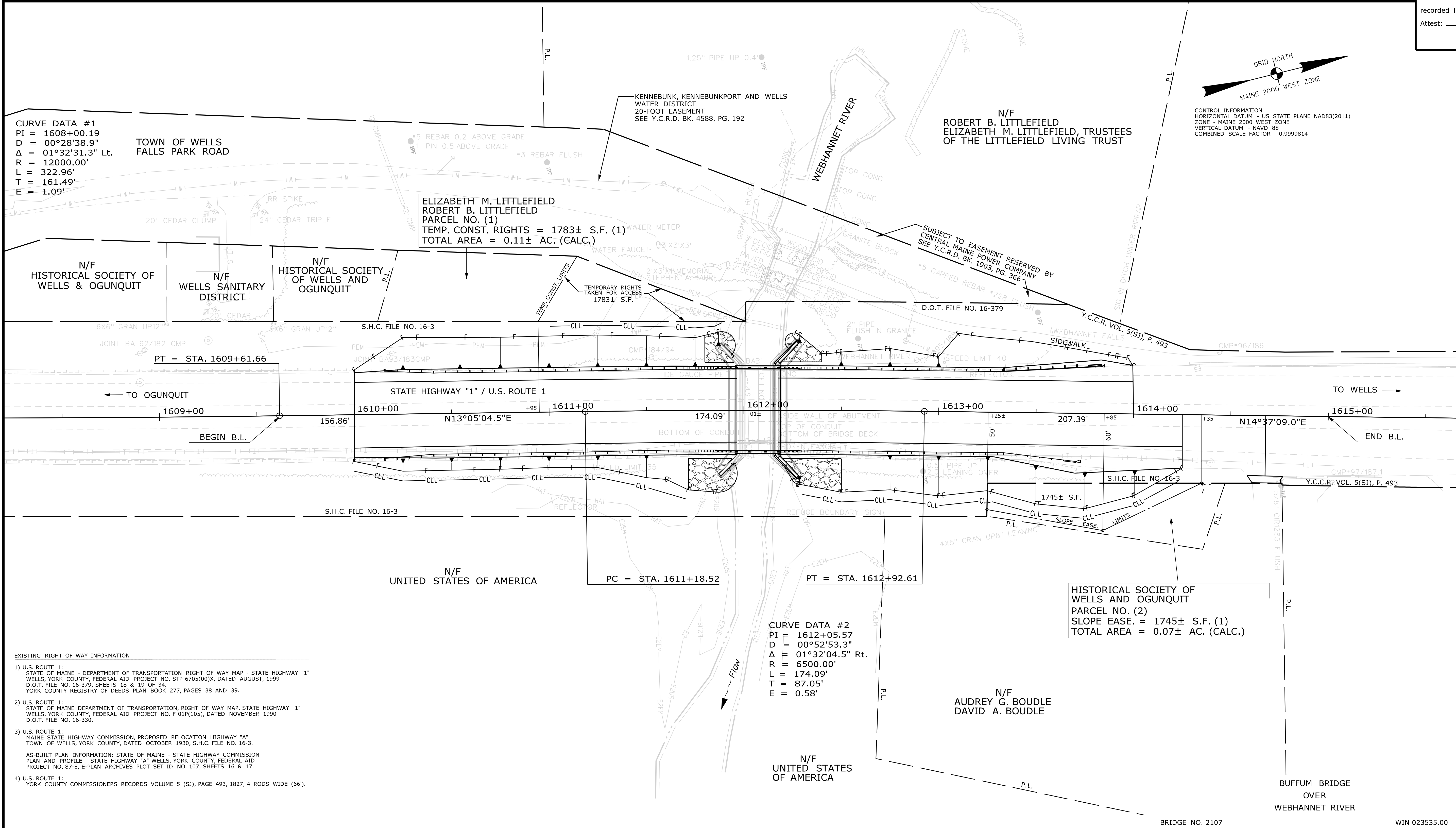
THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.



CONTROL INFORMATION  
HORIZONTAL DATUM - US STATE PLANE NAD83(2011)  
ZONE - MAINE 2000 WEST ZONE  
VERTICAL DATUM - NAVD 88  
COMBINED SCALE FACTOR - 0.9999814

STATE OF MAINE  
REGISTRY OF DEEDS

COUNTY \_\_\_\_\_  
RECEIVED \_\_\_\_\_,  
at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and  
recorded in Plan Bk \_\_\_\_\_, Pg. \_\_\_\_\_  
Attest: \_\_\_\_\_  
REGISTER



TECH	CHECKED
ITEM	CONDITION
EXISTING	PLAN
FINAL	RIGHT OF WAY
AREAS	

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460  
WELLS  
RIGHT OF WAY MAP

NO.	DATE	REVISIONS DESCRIPTION	BY	PLAN FILED IN PLAN BOOK				PAGE COUNTY RECORD			
				NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE		

BRUCE A. VAN NOTE  
COMMISSIONER  
JOYCE NOEL TAYLOR  
CHIEF ENGINEER

DATE \_\_\_\_\_

STATE HIGHWAY "1"  
U.S. ROUTE 1  
WELLS YORK COUNTY  
FEDERAL AID PROJECT NO. 2353500

OCTOBER 2023  
SCALE 1" = 25'

RIGHT-OF-WAY MAP  
SHEET 1 OF 1

D.O.T. FILE NO. 16-547

SHEET NUMBER  
**27**  
OF 27

Date: 12/14/2023

Username: Brian.Nichols

Division: BRIDGE

Filename: ... \00\ROW\MSTA027\_RWPLAN1.dgn

Date: 12/13/2023

Username: sjwilliams

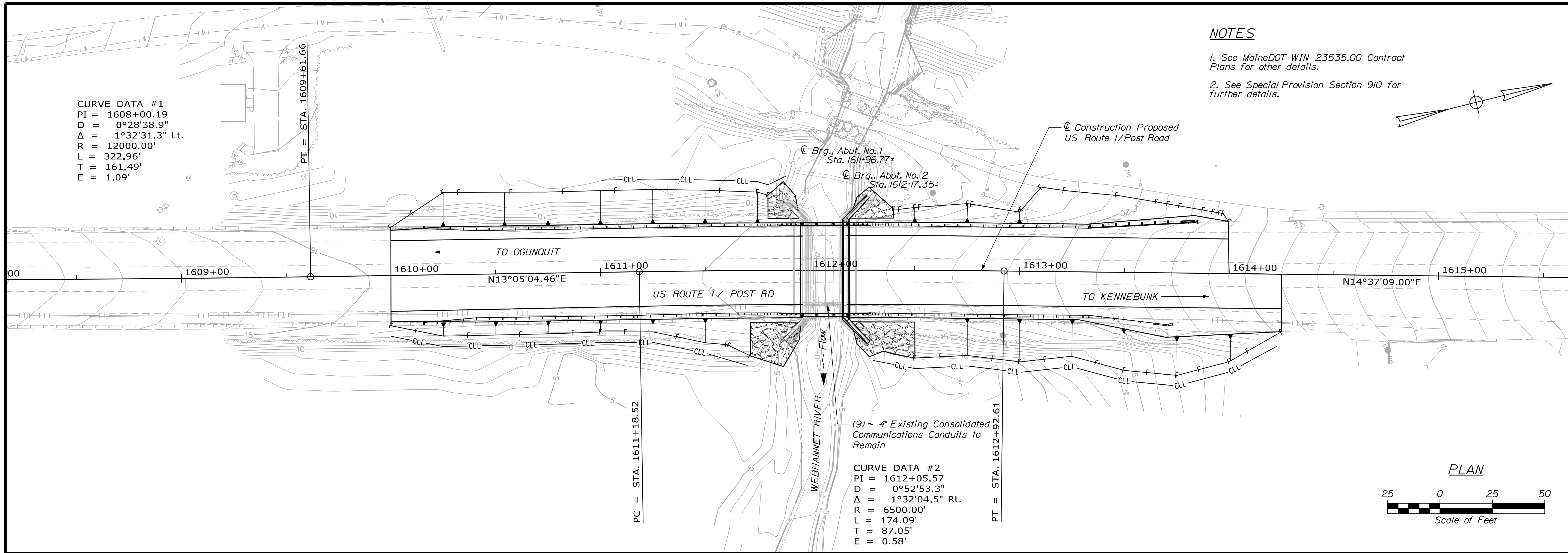
Division: UTILITIES

Filename: ... \UTILITIES\MSTA\_UCenPlan1.dgn

**CURVE DATA #1**  
 PI = 1608+00.19  
 D = 0°28'38.9"  
 Δ = 1°32'31.3" Lt.  
 R = 12000.00'  
 L = 322.96'  
 T = 161.49'  
 E = 1.09'

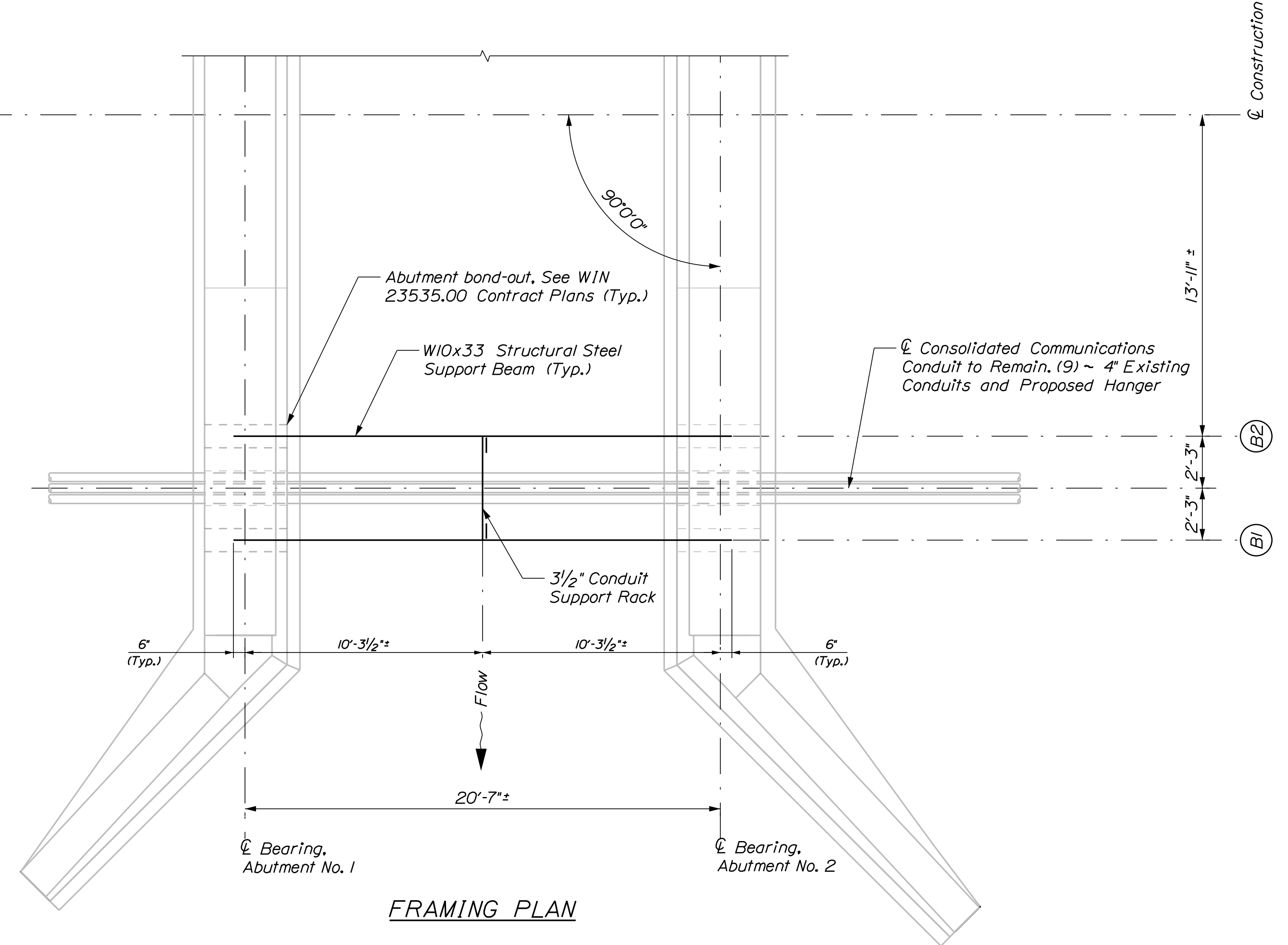
**NOTES**

1. See MaineDOT WIN 23535.00 Contract Plans for other details.
2. See Special Provision Section 910 for further details.



**NOTES**

1. Structural Steel Support Beams shall be Hot-Dipped Galvanized in accordance with Standard Specification Section 506, Shop Applied Protective Coating. At the Contractor's option, all Structural Steel may be metallized (Thermal Spray Coating (Shop Applied)). Payment will be considered incidental to Item 910.301 - Special Work - Utility Conduit (CC - Bridge Only), no separate payment will be made.
2. Structural Steel Support Beams shall be cast into the abutment backwalls or run through the bond-outs as shown in the MaineDOT WIN 23535.00 Contract plans and then sealed off with a waterproof mortar when completed.
3. The Contractor shall support the existing conduits in-place for the duration of Construction and shall be paid for under Item 524.301 Temporary Structural Support - Consolidated Communications.
4. The Contractor shall verify all dimensions and location of existing conduits prior to starting the work.



**Stantec Consulting Services Inc.**  
 2211 CONGRESS ST., PORTLAND, ME 04102  
 Tel. 207.887.3449 Fax 207.883.3376

**CONSOLIDATED COMMUNICATIONS**  
 PROJECT NUMBER  
 179450753

STATE OF MAINE  
 Sarah J. Williams  
 Professional Engineer  
 License No. 13582

Signature: *Sarah J. Williams*  
 P.E. NUMBER: 13582  
 DATE: 12/13/23

PROJ. MANAGER	GARY LIBBY	DATE
DESIGN-DETAILED	K. JACQUES	12/2023
CHECKED-REVIEWED	S. WILLIAMS	12/2023
DESIGN-DETAILED	L. FLANDERS	12/2023
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WELLS  
 BUFFAM BRIDGE  
 WEBHAMMET RIVER  
 YORK

**CONDUIT LAYOUT PLAN & UTILITY SUPPORT PLAN**

SHEET NUMBER  
**T-1**  
 OF T-2

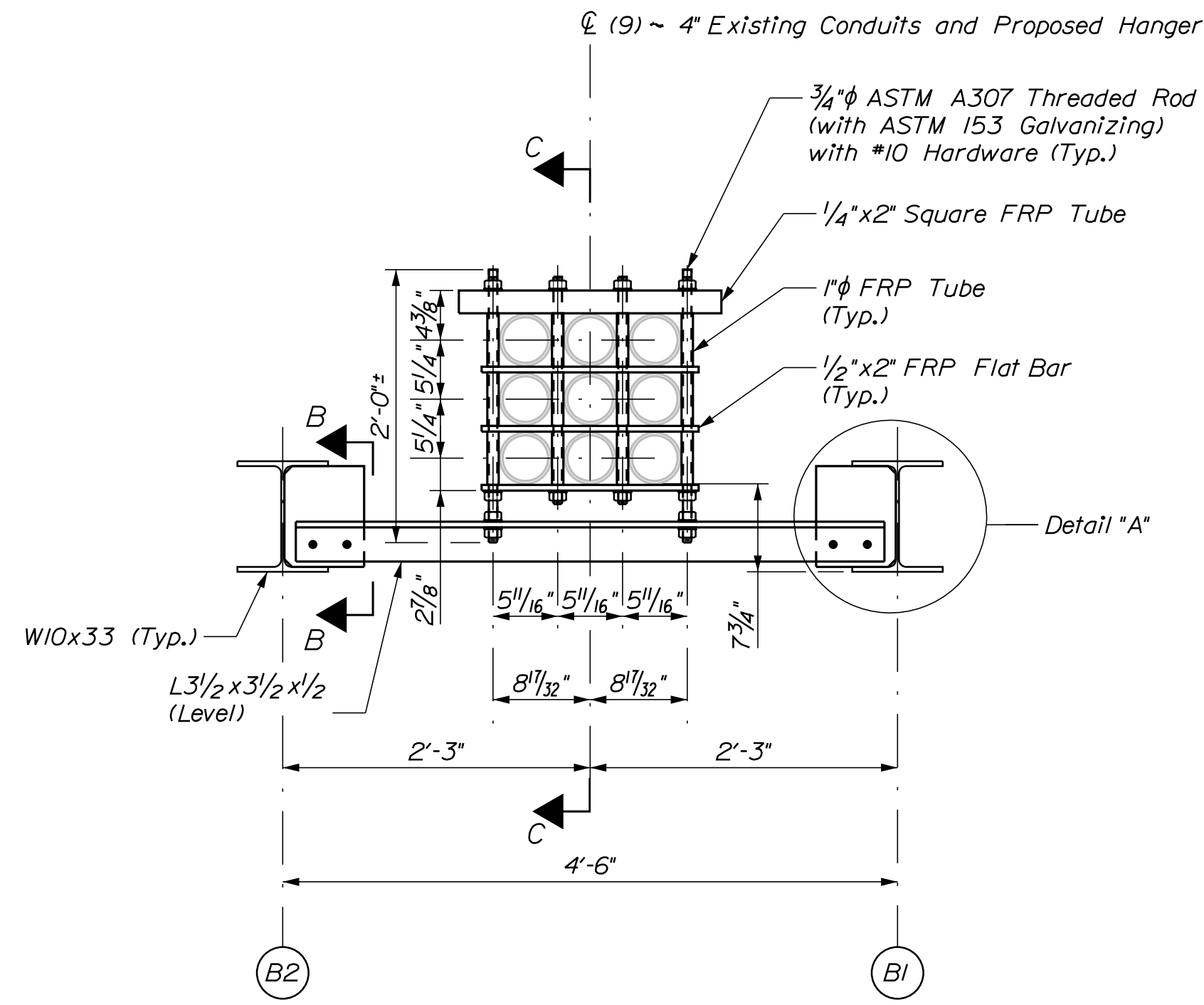


Date: 12/13/2023

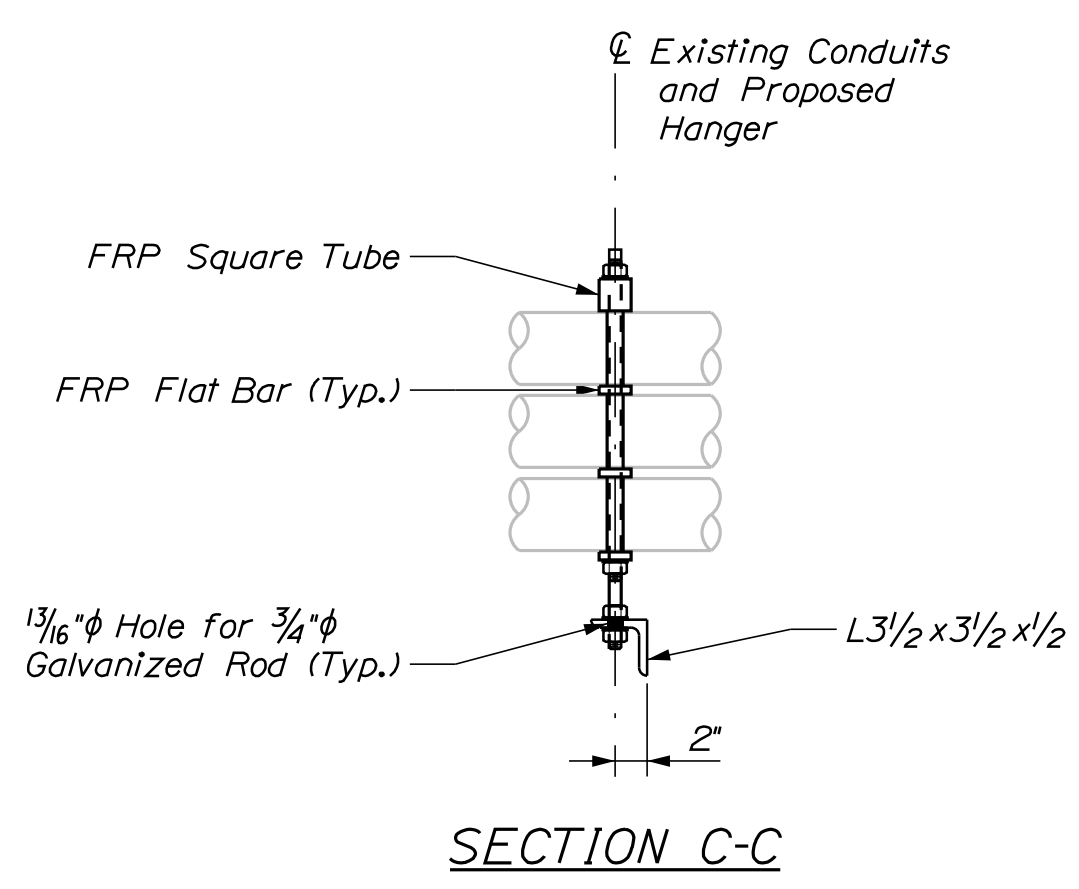
Username: sjwilliams

Division: UTILITIES

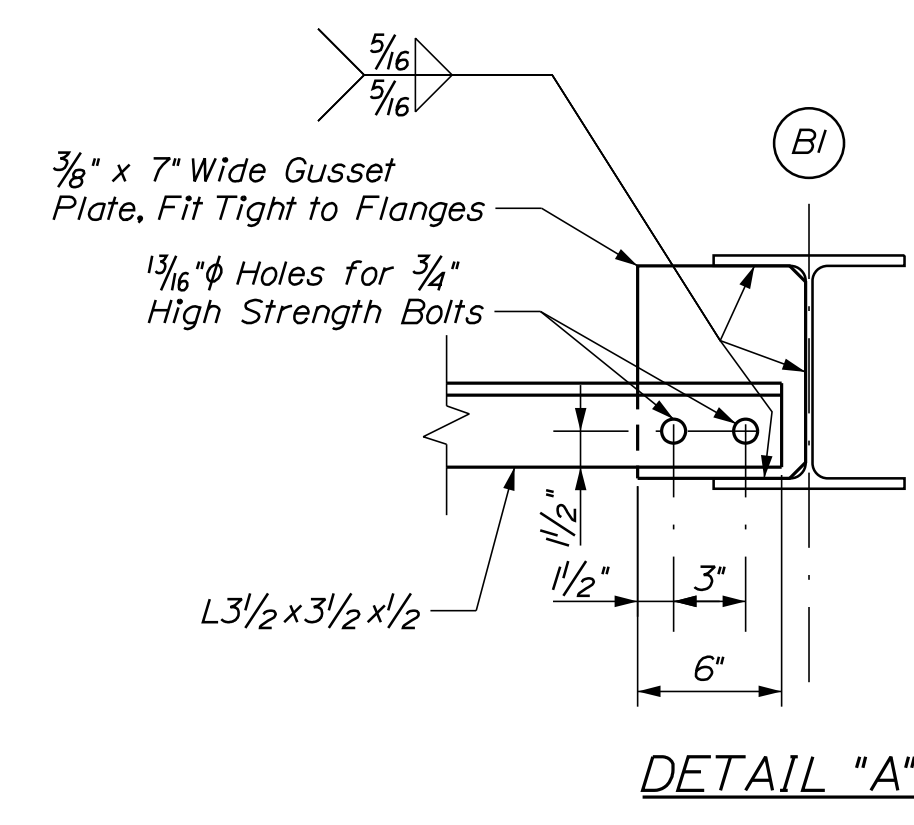
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TYPICAL UTILITY SUPPORT

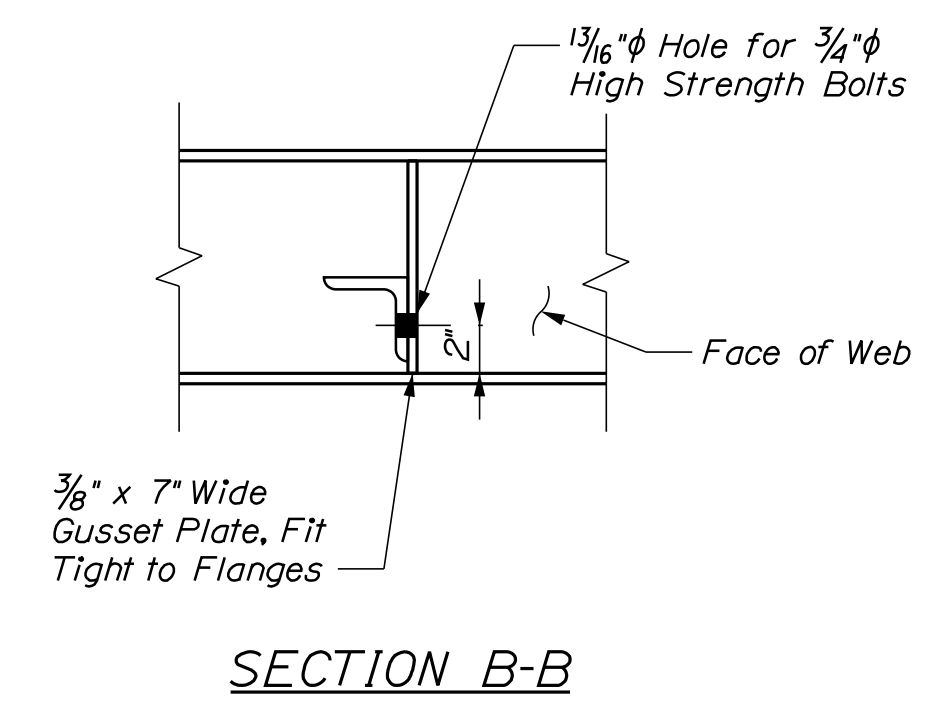


SECTION C-C

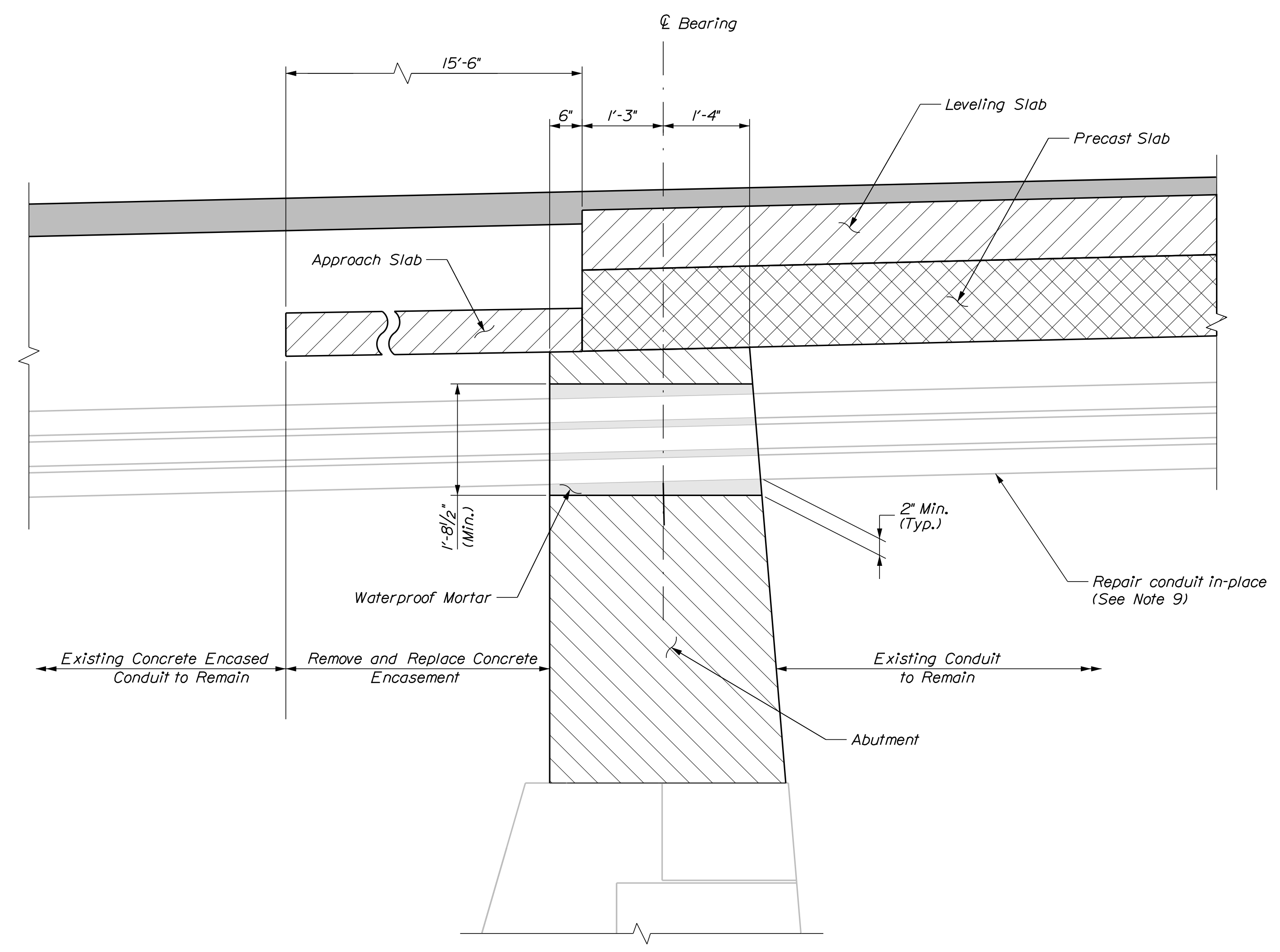


DETAIL "A"

Note: See Standard Detail 504(07) for Gusset Plate information.



SECTION B-B



TYPICAL ABUTMENT SECTION  
(Abutment No. 1 Shown, Abutment No. 2 similar. Utility Support Beam not Shown for Clarity)

NOTES

1. The existing Consolidated Communications conduits are assumed to be encased in concrete beyond the existing bridge abutments and are to remain in place for the duration of construction.
2. All conduits located under the bridge shall be run in free air and suspended by their individual rack assemblies.
3. These drawings are based on available bridge design drawings. Contractor shall verify all dimensions before fabrication and installation of conduits and supports.
4. Fiberglass duct supports are designed for a maximum cable load of 8.0 lbs per foot per 4" duct and a duct self-weight of 2.4 lbs per foot and hanger weight of 22.5 lbs. The total unfactored conduit load at a support is 1.0 Kips maximum.
5. All hardware, attachment rods, spacer rods, nuts, lock and flat washers to be Hot-Dipped Galvanized.
6. This design is for the express purpose for use on the Buffam Bridge over the Webhannet River in Wells, Maine.
7. Hanger Assembly to be set level.
8. See MaineDOT WIN 23535.00 Contract Plans for additional bridge and approach roadway details.
9. Cracks in the existing conduits shall be repaired in-place and shall be paid for under Item 910.301 - Special Work - Utility Conduit (CC - Bridge Only). The Contractor shall inspect the existing conduits with the Resident prior to the work.

**Stantec Consulting Services Inc.**  
2211 CONGRESS ST., PORTLAND, ME 04102  
Tel. 207.887.3449 Fax 207.883.3376

**CONSOLIDATED COMMUNICATIONS**

PROJECT NUMBER  
179450753

STATE OF MAINE  
Sarah J. Williams  
13882  
PROFESSIONAL ENGINEER

Signature: *Sarah J. Williams*  
SIGNATURE  
13582  
P.E. NUMBER  
12/13/23  
DATE

PROJ. MGR.	MANAGER	SCOTT ROLLINS	DATE
DESIGN-DETAILED	K. JACQUES	12/2023	
CHECKED-REVIEWED	S. WILLIAMS	12/2023	
DESIGN-DETAILED	L. LANDERS		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WELLS

YORK

BUFFAM BRIDGE  
WEBHANNET RIVER

UTILITY SUPPORT DETAILS

SHEET NUMBER  
T-2  
OF T-2

