

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SOUTH PORTLAND
CUMBERLAND COUNTY
LONG CREEK # 2 BRIDGE
OVER
RED BROOK
MAINE TURNPIKE APPROACH (ROUTE 703)
FEDERAL PROJECT NO. NHP-2053(500)
BRIDGE NO. 6219

LIST OF DRAWINGS

Title Sheet	1
Estimated Quantities & General Notes	2
General Plan	3
Box Liner & Baffle Plan & Profile	4
Box Liner Reinforcing	5
Box Baffle Reinforcing	6-7
Reinforcing Steel Schedule	8

SPECIFICATIONS

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

MATERIALS

Concrete Class "A" or Shotcrete
Reinforcing:
Plain Reinforcing Steel ASTM A615, Grade 60

BASIC DESIGN STRESSES

Concrete:
Class "A" f 'c = 4,000 psi
Shotcrete f 'c = 5,000 psi
Reinforcing:
Plain Reinforcing Steel f y = 60,000 psi

UTILITIES

Central Maine Power
The City of South Portland
Maine Department of Transportation

MAINTENANCE OF TRAFFIC

Maintain all lanes of traffic at all times.

PROJECT LOCATION	Located on the Maine Turnpike Approach off-ramp, at Long Creek #2 Bridge (#6219) Lat./Long. 43°37'35.08" N 70°19'40.33" W
PROGRAM AREA	Highway-Bridge Traditional
OUTLINE OF WORK	Install baffles in culvert as shown in plan and details

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		CHIEF ENGINEER: <i>[Signature]</i>	7-21-23

STATE OF MAINE DEPARTMENT OF TRANSPORTATION ENGINEER GARRETT GUSTAFSON 13553 LICENSED PROFESSIONAL		SIGNATURE <i>[Signature]</i>	DATE 6-29-23
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PROJECT INFORMATION		BRIDGE	PROGRAM
DESIGNER		D. EATON	PROJECT MANAGER
CONSULTANT		R. NICHOLS	DESIGNER
PROJECT RESIDENT			CONSULTANT
CONTRACTOR			PROJECT RESIDENT
PROJECT COMPLETION DATE			CONTRACTOR

SOUTH PORTLAND LONG CREEK #2 BRIDGE		TITLE SHEET

SHEET NUMBER	
1	
OF 8	

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
502.325	STRUCTURAL CONCRETE CULVERT INVERT LINING (50 CY)	1	LS
502.326	STRUCTURAL CONCRETE - FISH WEIRS (4 CY)	1	LS
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	7,700	LB
503.13	REINFORCING STEEL, PLACING	7,770	LB
511.07	COFFERDAM, UPSTREAM	1	LS
511.07	COFFERDAM, DOWNSTREAM	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (50 SY)	1	LS
518.50	REPAIR OF UPWARD FACING SURFACES TO REBAR > 8 INCHES	10	SF
518.60	REPAIR OF VERTICAL SURFACES < 8 INCHES	150	SF
518.61	REPAIR OF VERTICAL SURFACES > 8 INCHES	0.25	CY
518.70	REPAIR OF OVERHEAD SURFACES < 8 INCHES	25	SF
518.71	REPAIR OF OVERHEAD SURFACES > 8 INCHES	0.25	CY
526.301	PORTABLE CONCRETE BARRIER, TYPE 1 (700 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	2	UN
610.08	PLAIN RIPRAP	10	CY
613.319	EROSION CONTROL BLANKET	100	SY
615.07	LOAM	55	CY
618.141	SEEDING METHOD NUMBER 3	1	UN
619.12	MULCH	1	UN
619.14	EROSION CONTROL MIX	1	CY
620.58	EROSION CONTROL GEOTEXTILE	20	SY
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	0.5	EA
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	50	EA
652.34	CONE	100	EA
652.35	CONSTRUCTION SIGNS	400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	100	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

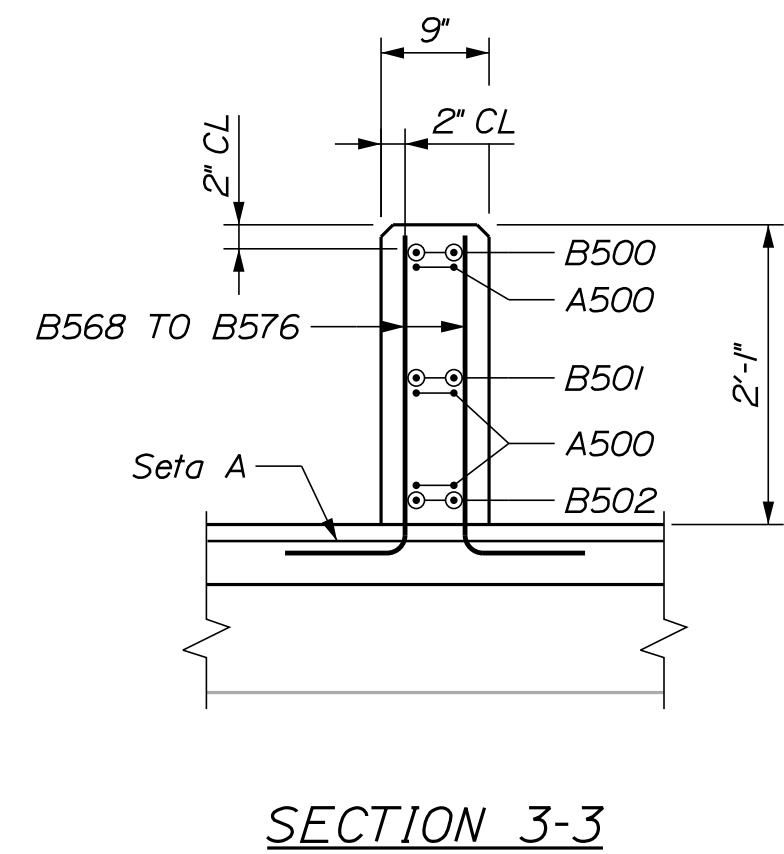
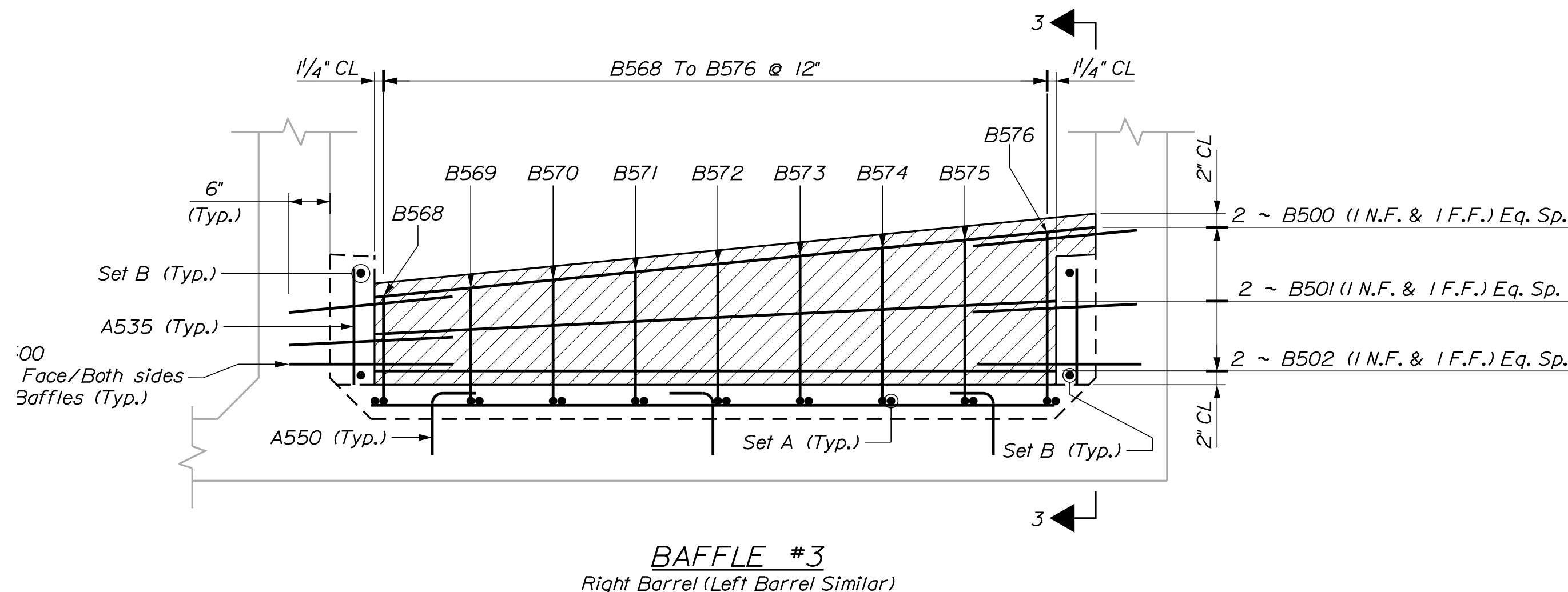
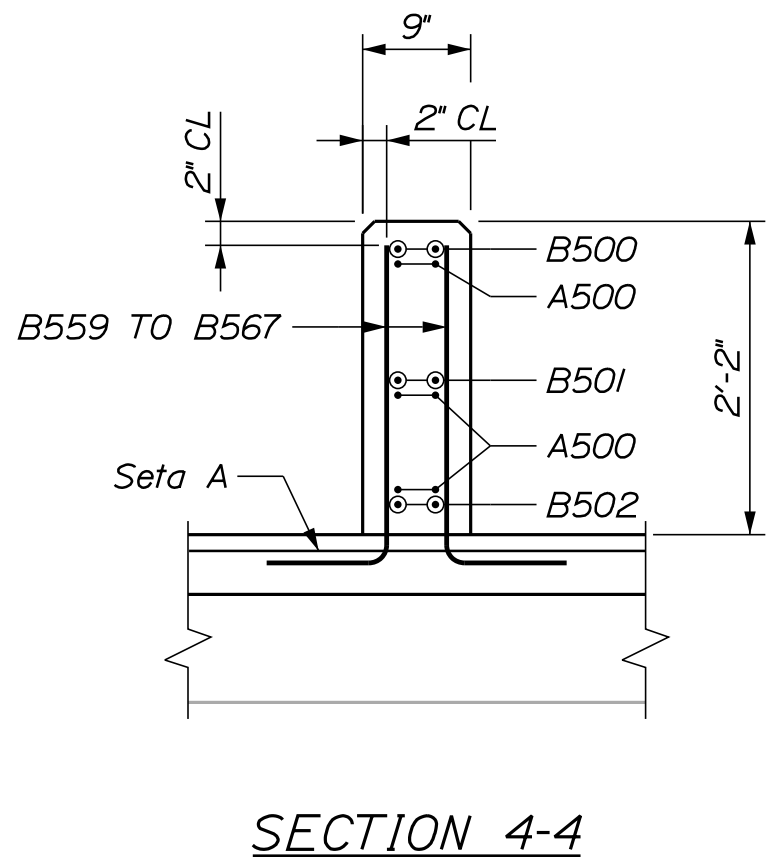
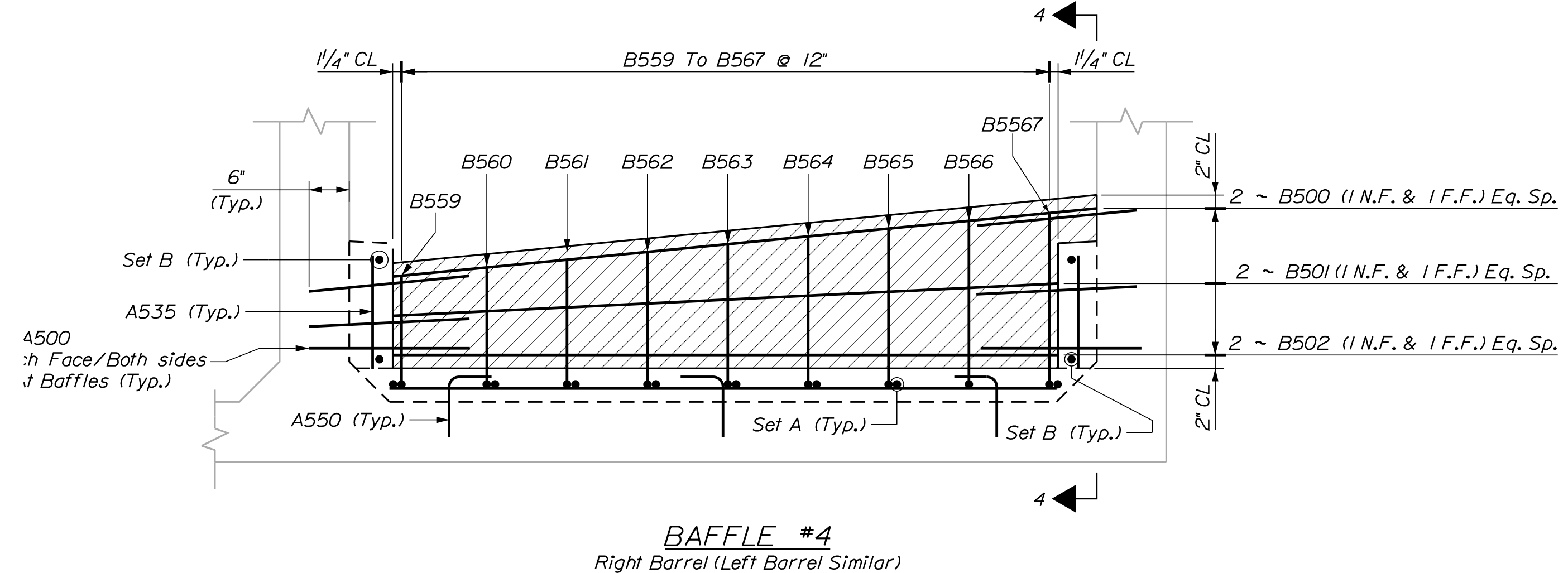
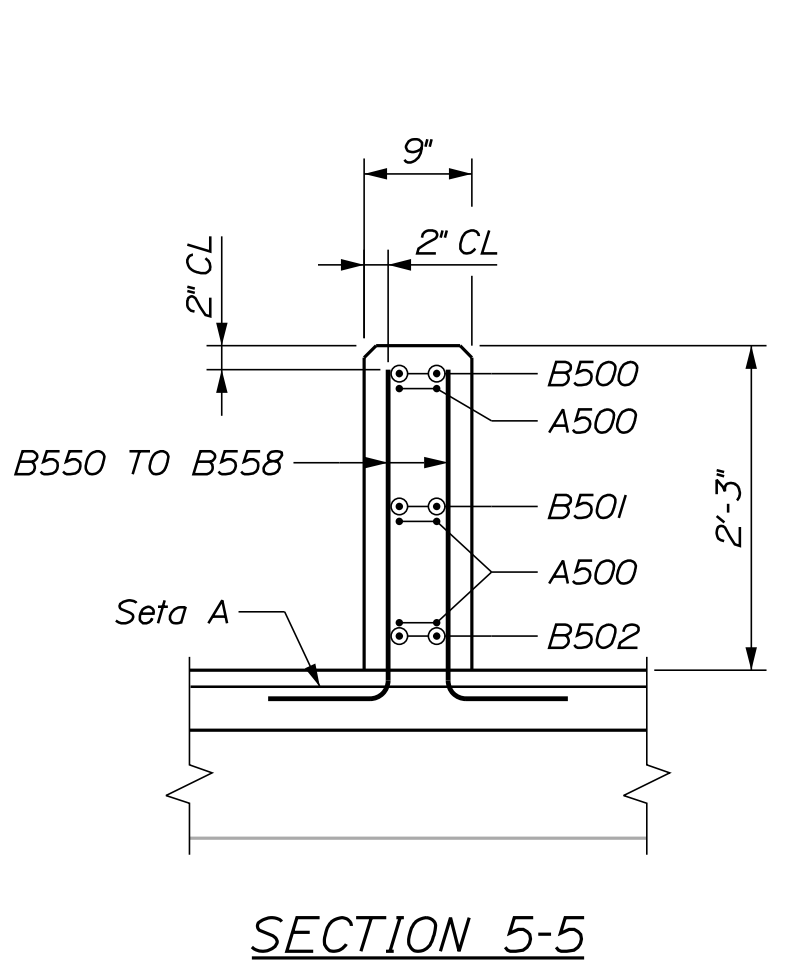
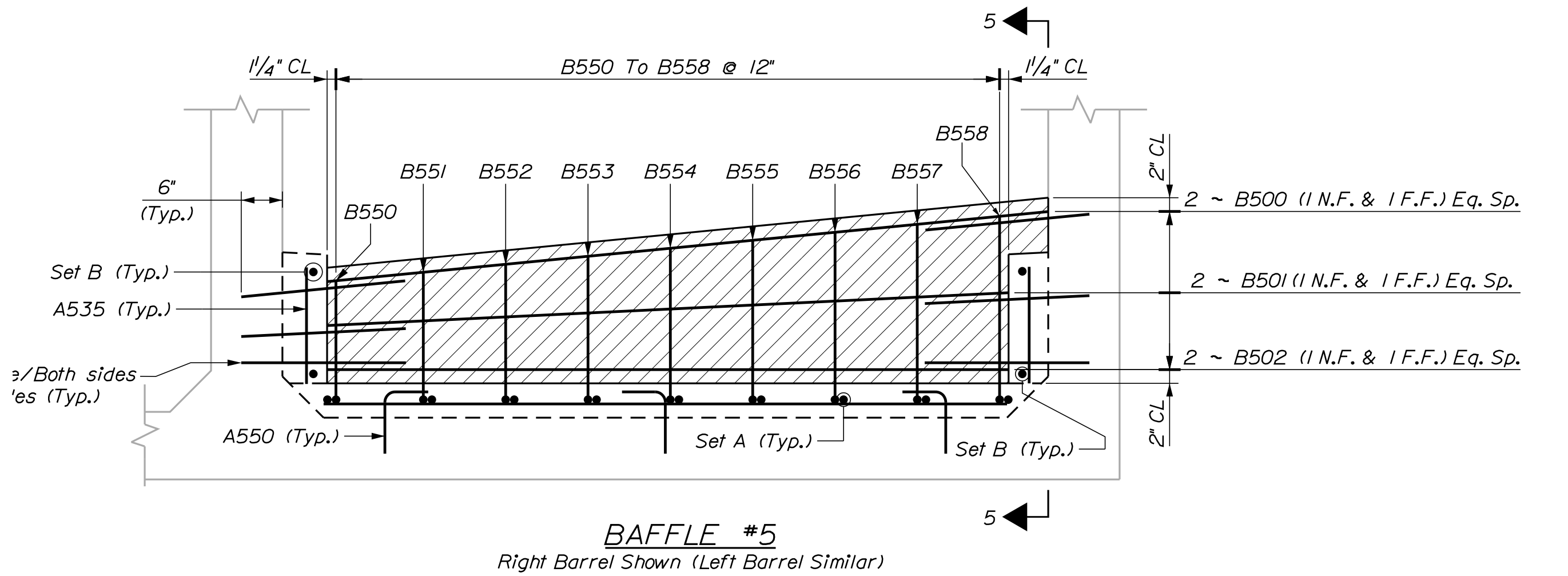
1. The clearing limits shown on the Plans are approximate. The Contractor may clear one access path at the upstream end and one at the downstream end. Each access path shall be no more than 30 feet wide. The access paths shall minimize impact to trees greater than or equal to 8 inches in diameter and shall be approved by the Resident. Payment for clearing will be considered incidental to Contract items.
2. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
3. Place riprap on sideslopes up to EL. 40.
4. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
5. 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.
6. Place a 24 inch wide strip of Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
7. A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
8. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>
9. The existing bridge plans may be accessed at the MaineDOT web address. It is very unlikely that these existing plans will show any construction field changes or alterations which may have been made during construction or since construction was completed.
10. 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.
11. Protective Coating for Concrete Surfaces shall be applied to the following areas: To all exposed surfaces of the wingwalls.
12. Removal and replacement of existing guardrail will be considered incidental to related Contract items. Any guardrail damaged or removed by the Contractor shall be replace at no additional cost to the Department. Replacement guardrail shall meet the requirements of Type 3c.
13. Payment for equipment, labor and materials to access the work, as well as to re-establish original ground, will be considered incidental to related Contract items.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NHP-2053(500)
WIN 20535.00
BRIDGE NO. 0219
BRIDGE PLANS

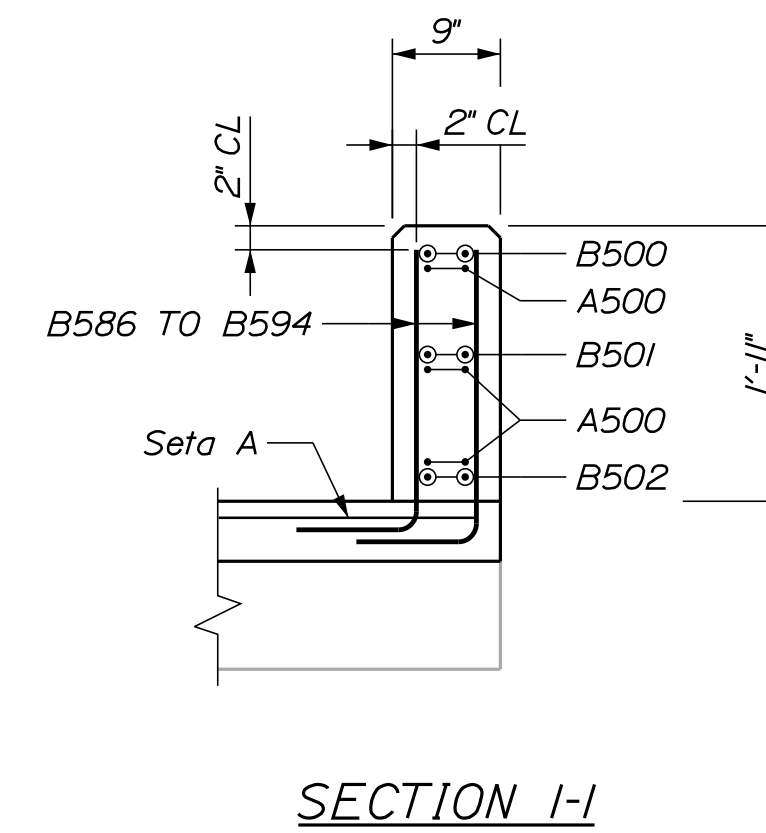
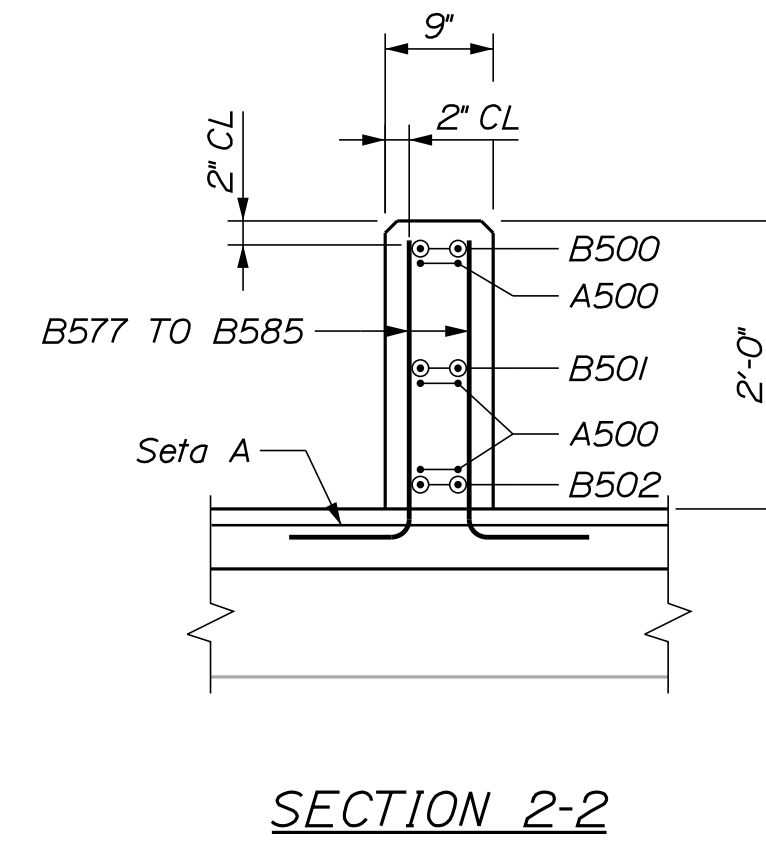
LONG CREEK # 2 BRIDGE
RED BROOK
SOUTH PORTLAND CUMBERLAND COUNTY
ESTIMATED QUANTITIES &
GENERAL CONSTRUCTION NOTES

SHEET NUMBER
2
OF 8

PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
D. EATON	R. NAJUS	MRP						
BY	DATE	SIGNATURE	P.E. NUMBER	DATE				
	5/2023							



STATE OF MAINE DEPARTMENT OF TRANSPORTATION NHP-2053(500)	BRIDGE PLANS			
	BRIDGE NO. 0219			
	WIN 20535.00			
LONG CREEK # 2 BRIDGE RED BROOK SOUTH PORTLAND CUMBERLAND COUNTY BOX BAFFLE REINFORCING 1 OF 2	PROJ. MANAGER	D. EATON	BY	DATE
	CHECKED-REVIEWED	R. NAJUS	MRP	5/2023
	DESIGN-REVIEWED			
	DESIGN-DETAILED			
	REVISIONS 1			
SHEET NUMBER 6 OF 8	REVISIONS 2			
	REVISIONS 3			
	REVISIONS 4			
	FIELD CHANGES			
	SIGNATURE			
NHP-2053(500)	P.E. NUMBER			
	DATE			



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

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

MATERIALS

Concrete Class "A" or Shotcrete
Reinforcing:
Plain Reinforcing Steel ASTM A615, Grade 60

BASIC DESIGN STRESSES

Concrete:
Class "A" f 'c = 4,000 psi
Shotcrete f 'c = 5,000 psi
Reinforcing:
Plain Reinforcing Steel f y = 60,000 psi

SOUTH PORTLAND
CUMBERLAND COUNTY
RED BROOK BRIDGE
OVER
RED BROOK
I-295
STATE PROJECT NO. 23601.00
BRIDGE NO. 6285

LIST OF DRAWINGS

Title Sheet	1
Estimated Quantities, General Construction Notes & Rebar Schedule	2
General Plan	3
Culvert Details	4
Liner Details	5
Fishway Structure Plan	6
Fishway Stryucture Sections	7-13

MAINTENANCE OF TRAFFIC

Maintain all lanes of traffic at all times

PROJECT LOCATION	I-295 NB/ Red Brook bridge #6285 in South Portland which carries I-295 over Red Brook Lat./Long. 43°37'39.1" N 70°19'36".6" W
PROGRAM AREA	Highway-Bridge Traditional
OUTLINE OF WORK	Bridge Culvert Rehabilitation

2360100

WIN 23601.00

SOUTH PORTLAND RED BROOK BRIDGE	TITLE SHEET	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
		APPROVED 	DATE 7-21-23
SHEET NUMBER 1		COMMISSIONER Garrett A. Gustafson	CHIEF ENGINEER Jennifer M. Taylor
OF 13			

PROJECT INFORMATION

PROGRAM	BRIDGE
PROJECT MANAGER	DEVAN EATON
DESIGNER	ROGER NAOUS
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SIGNATURE

SIGNATURE
GARRETT A. GUSTAFSON

P.E. NUMBER
13553

DATE
6-29-23

STATE OF MAINE

PROFESSIONAL ENGINEER

13553

GENERAL CONSTRUCTION NOTES

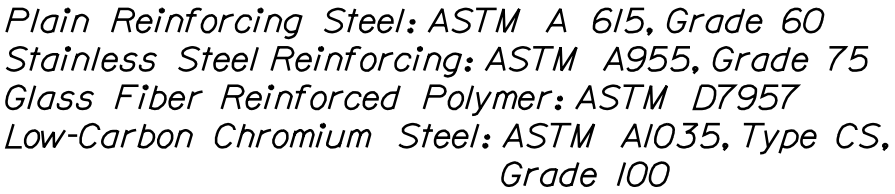
6. The Contractor shall minimize, to the maximum extent possible, the void spaces in the riprap aprons at both ends of the culverts. Granular Borrow meeting the material requirements for underwater backfill shall be spread between the layers of individual stones. Granular Borrow used to fill the void spaces shall not be paid for directly but shall be considered incidental to Item No. 610.08, Plain Riprap.

GENERAL CONSTRUCTION NOTES

13. The Fishway Structure is considered a minor structure. Excavation for the Fishway Structure will not be measured.

CULVERT LINER AND INTERNAL WEIR REINFORCING

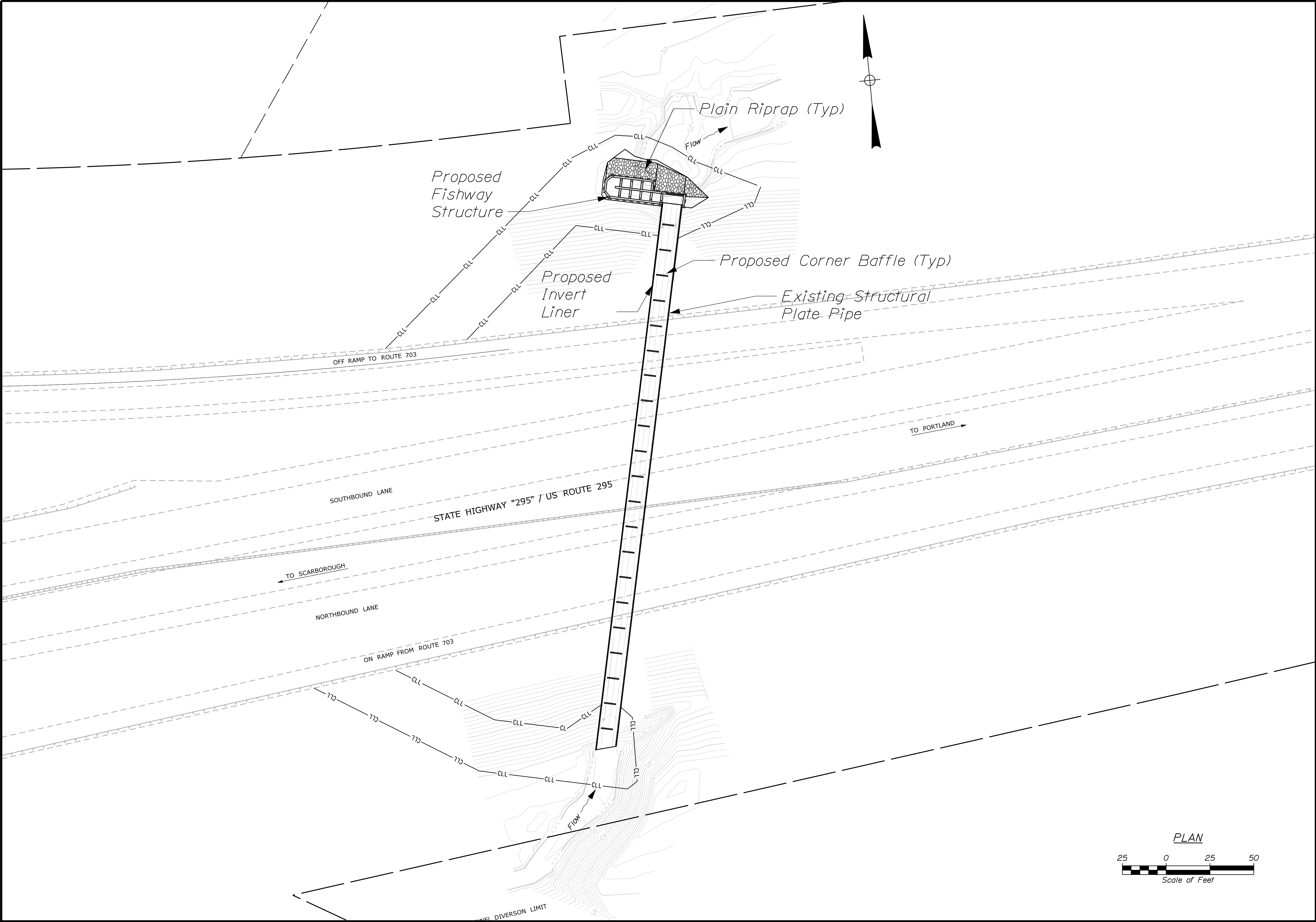
TYPE - BENDING DIAGRAMS



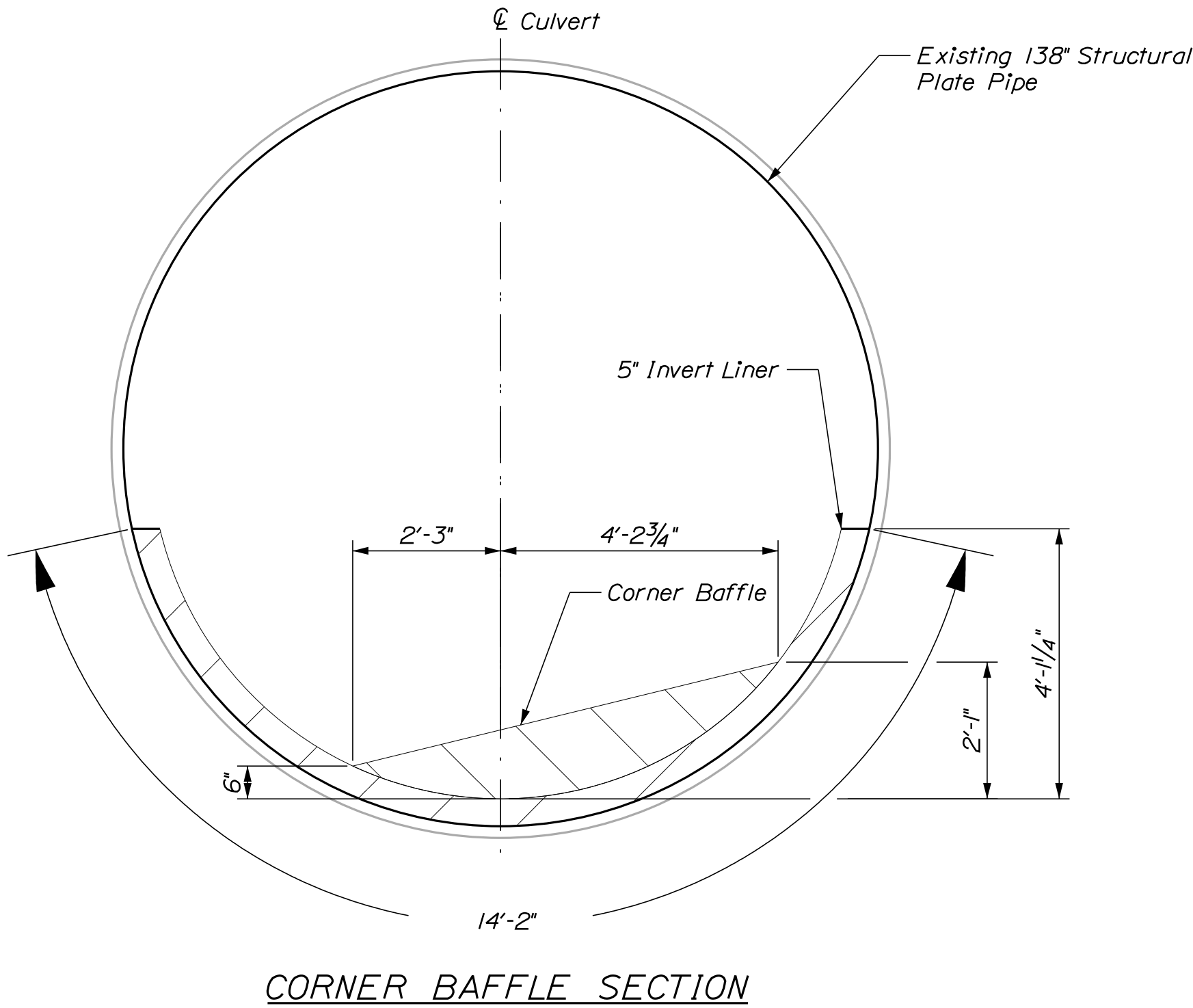
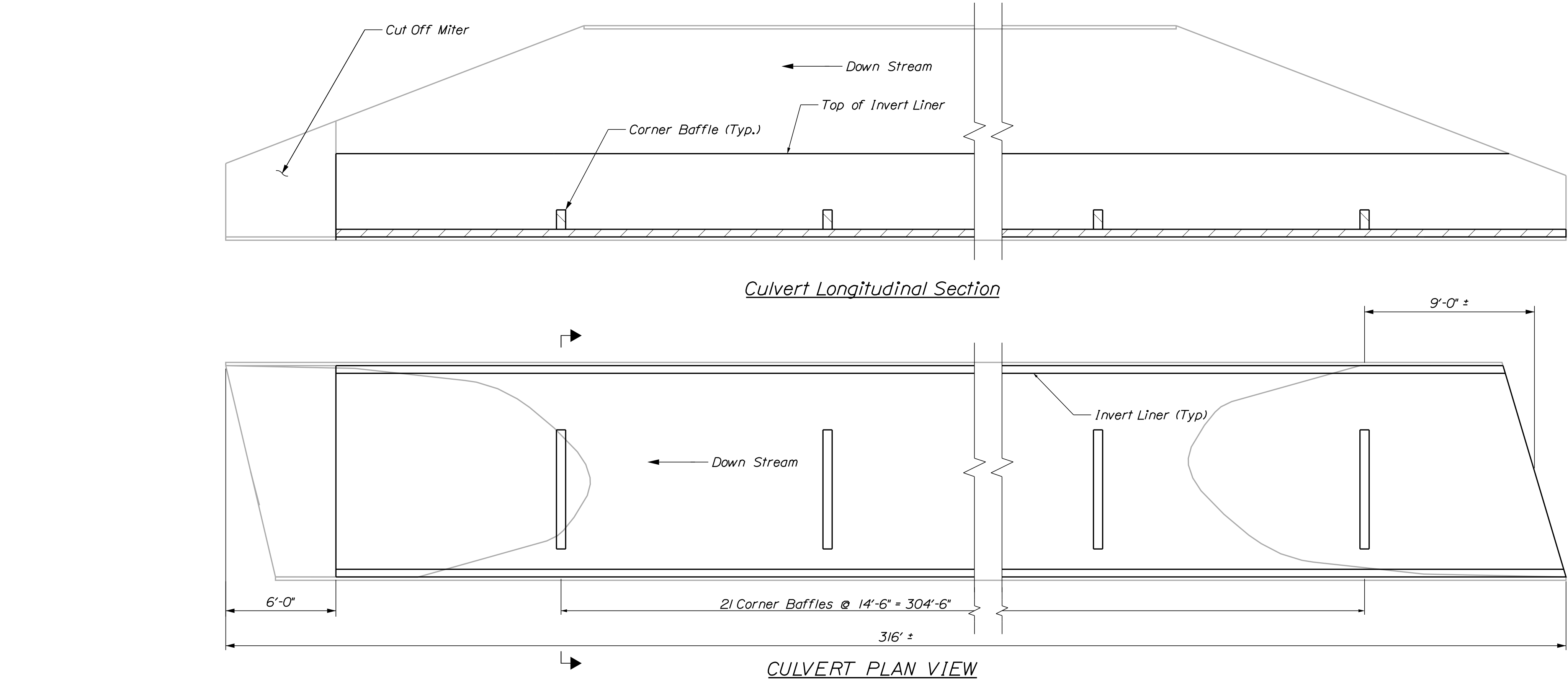
GENERAL NOTES

Mark "A502" = bar size #5
 Mark "P805" = bar size #8
 Mark "S650" = bar size #6
 Mark "PI404" = bar size #14

"A500b", b = (Black) Plain Steel
 "A550s", s = Stainless Steel
 "S500p", p = Glass Fiber Reinforced Polymer
 "P510c", c = Low-Carbon Chromium Steel



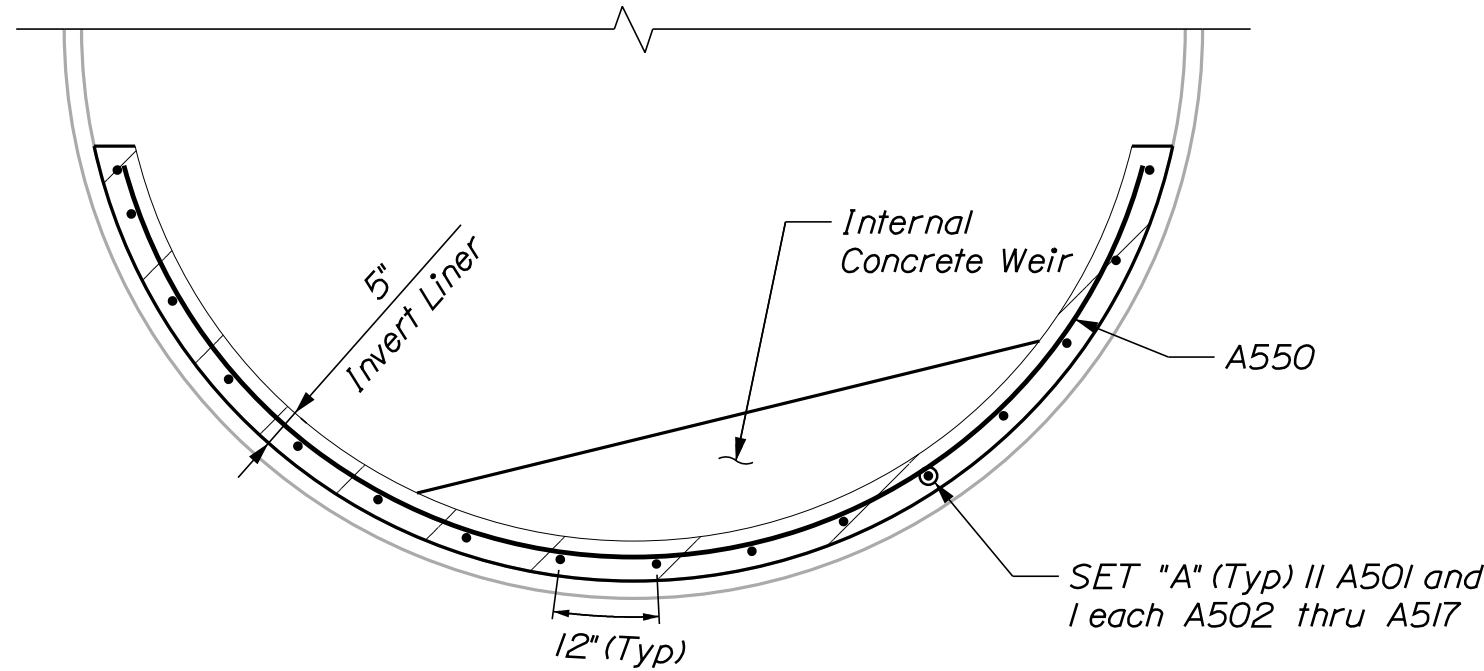
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		PROJECT NO. 2360100 WIN BRIDGE NO. 6285 023601.00 BRIDGE PLANS	
RED BROOK BRIDGE RED BROOK SOUTH PORTLAND CUMBERLAND COUNTY		SHEET NUMBER 3 OF 13	
GENERAL PLAN		DESIGN-DETAILED: J. NAJOS CHECKED-REVIEWED: GUSTAFSON DESIGN-DETAILED: M. POULIN REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	
PROJ. MANAGER: DEVAN EATON BY: M. CRITCHLOW DATE: JUNE 2023		SIGNATURE P.E. NUMBER DATE	



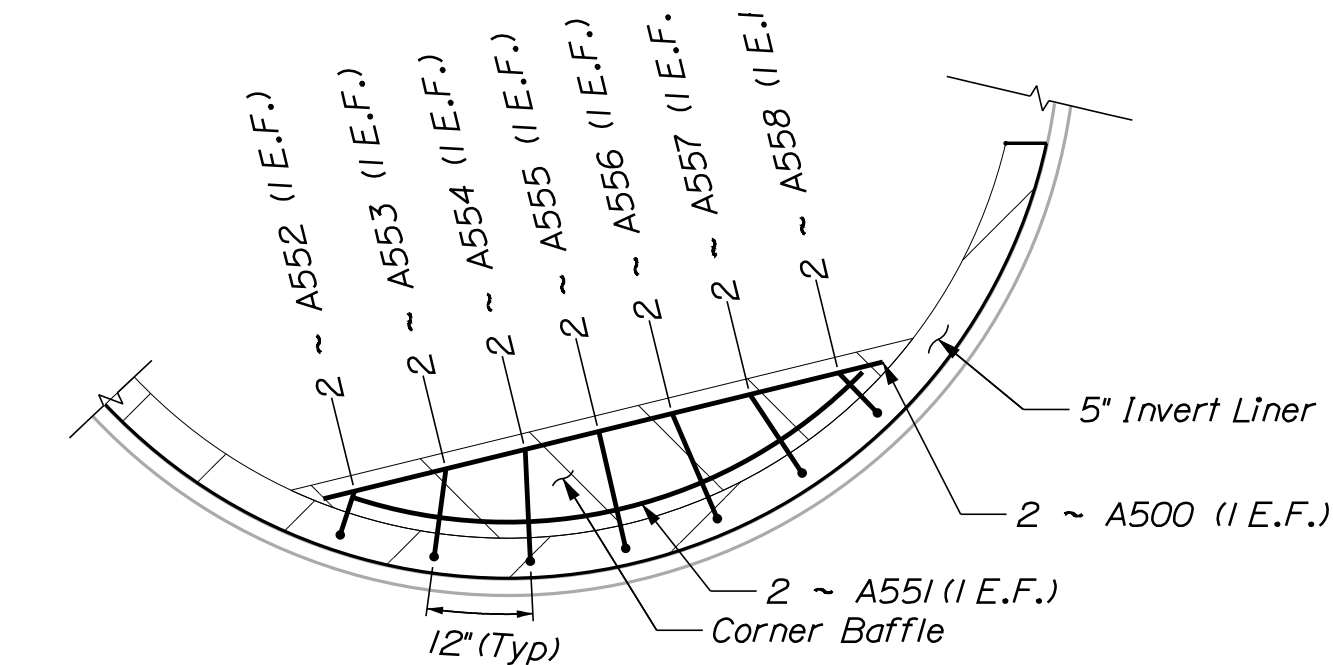
CULVERT NOTES

- Surfaces of the pipe against which concrete is to be placed shall be thoroughly cleaned so as to remove all loose corrosion. In areas where the metal is non - existant, a prelliminary concrete placement shall be made, using forms where required, to fill voids and to establish the original lines of the pipe. The final placement shall then be made as shown. Payment for this work will be considered incidental to Item No. 502.325, Structural Concrete Invert Lining.
- Eight rows of shear connectors shall be staggered longitudinally at 12" spacing along each side of the culvert. Shear connectors shall be 1/2" diameter x 3" studs or machine bolts welded to the crests of the corrugations. Approximately 2500 shear connectors are required. Shear connections shall not be paid for directly. Payment will be considered incidental to item 502.325 Structural Concrete Culvert Invert Lining.
- Reinforcing steel shall have a minimum concrete cover of 2" unless otherwise shown. The bottom mat of the Fishway Structure shall have 3" concrete cover.
- The existing structural plate pipe may have a slight deformation requiring field bending and/or cutting of the reinforcing steel. Any cutting and bending to field fit reinforcing steel shall be considered incidental to Item No. 503.13, Reinforcing Steel-Placing
- The concrete shall have a rough broom or gun finish along the entire length of the pipe invert.
- Asphalt Emulsion will be considered incidental to item No. 502.325 Structural Concrete Invert Lining.
- Voids under the pipe shall be grouted as directed by the Resident. All materials and hardware needed for grouting shall be paid for under Pay Item No. 502.2483, Pumped Grout.
- Removal of a portion of the existing culvert will be incidental to related Contract items.

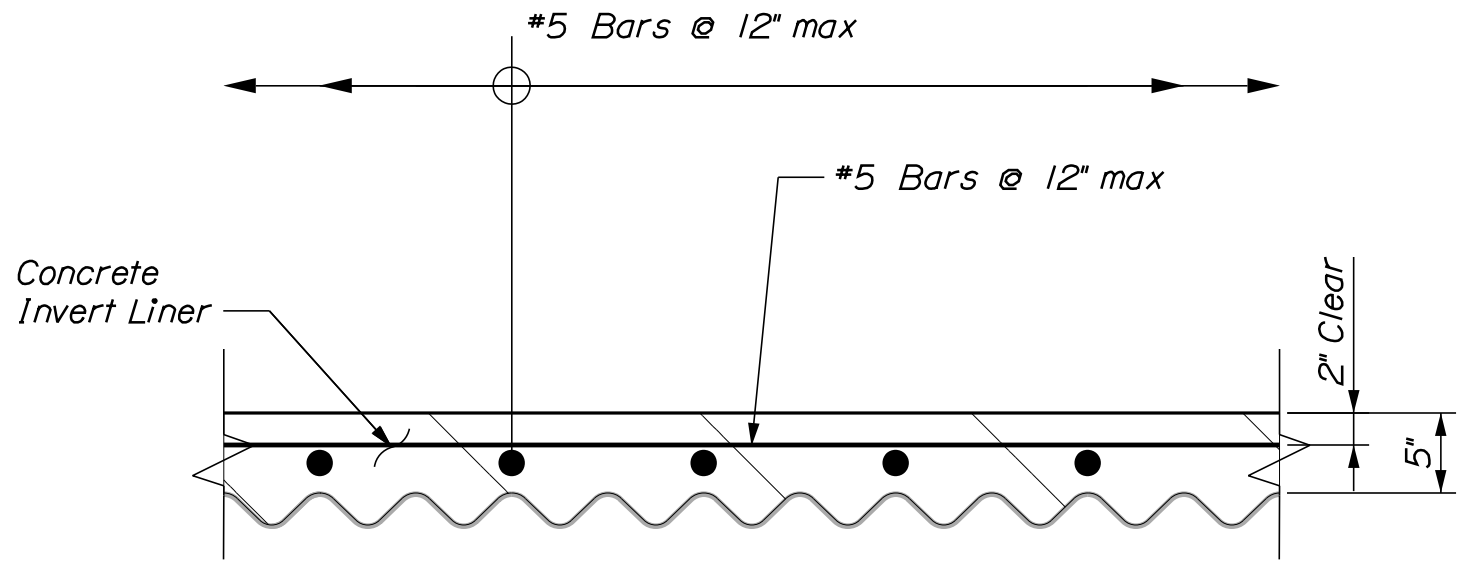
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
RED BROOK BRIDGE		2360100	
RED BROOK		WIN	
SOUTH PORTLAND CUMBERLAND COUNTY		023601.00	
CULVERT DETAILS		BRIDGE NO. 6285	
SHEET NUMBER		BRIDGE PLANS	
4		023601.00	
OF 13		BRIDGE NO. 6285	



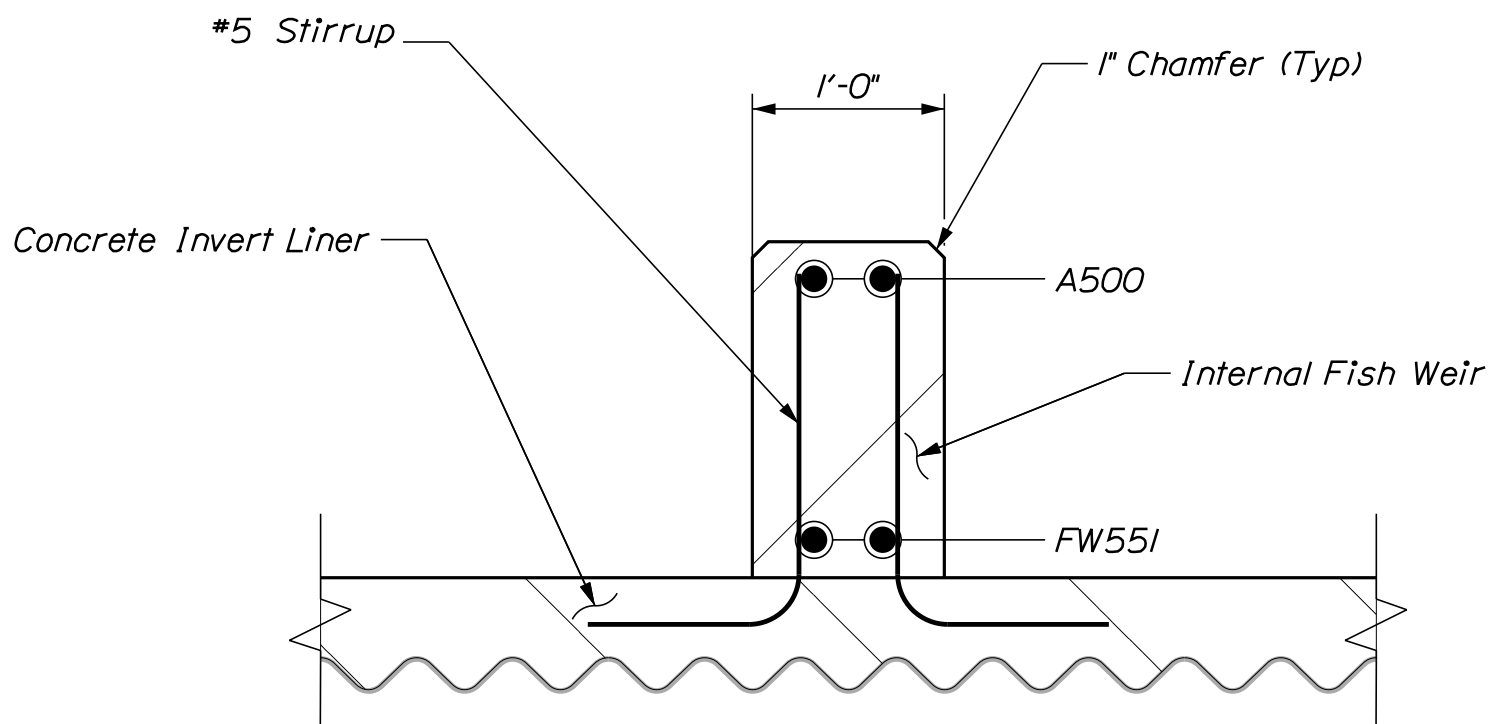
PIPE ARCH SECTION
(Weir reinforcing not shown)



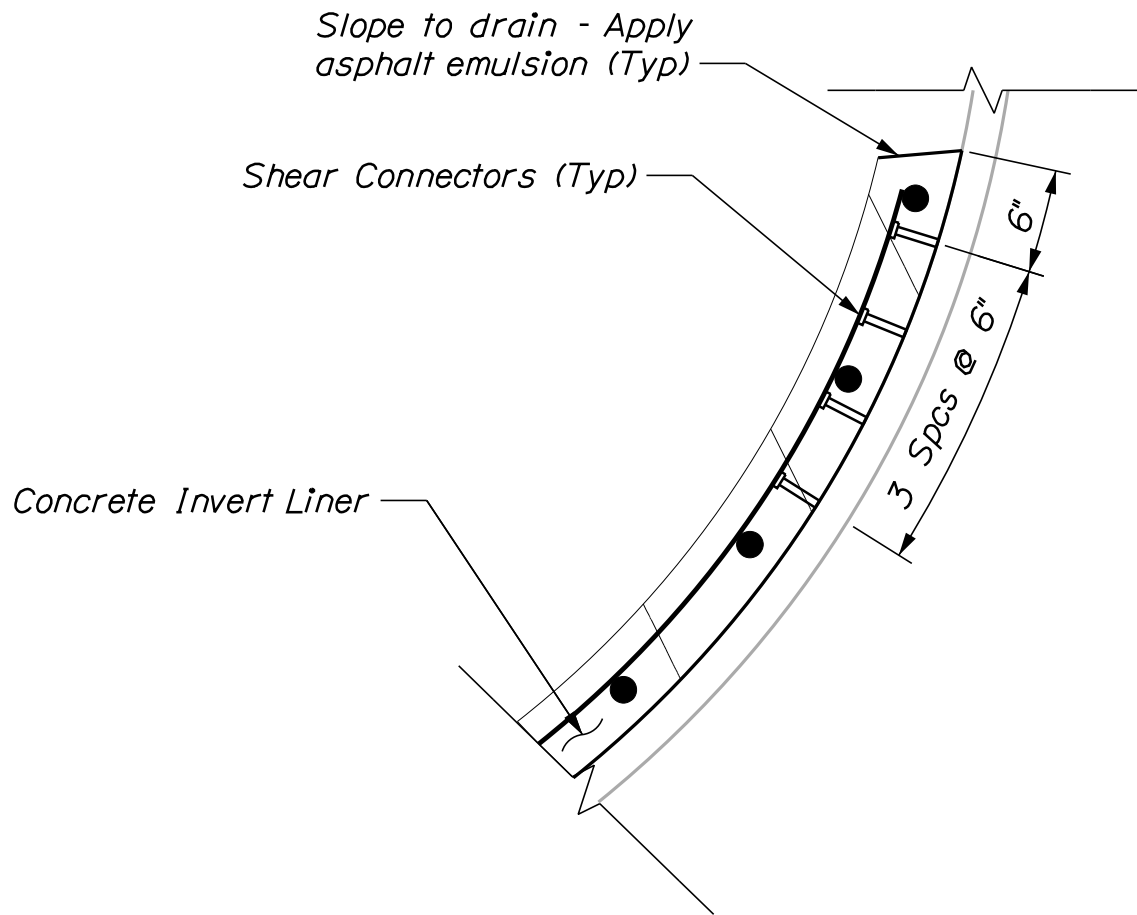
FISH WEIR ELEVATION
Liner reinforcement and Shear connectors not shown for clarity



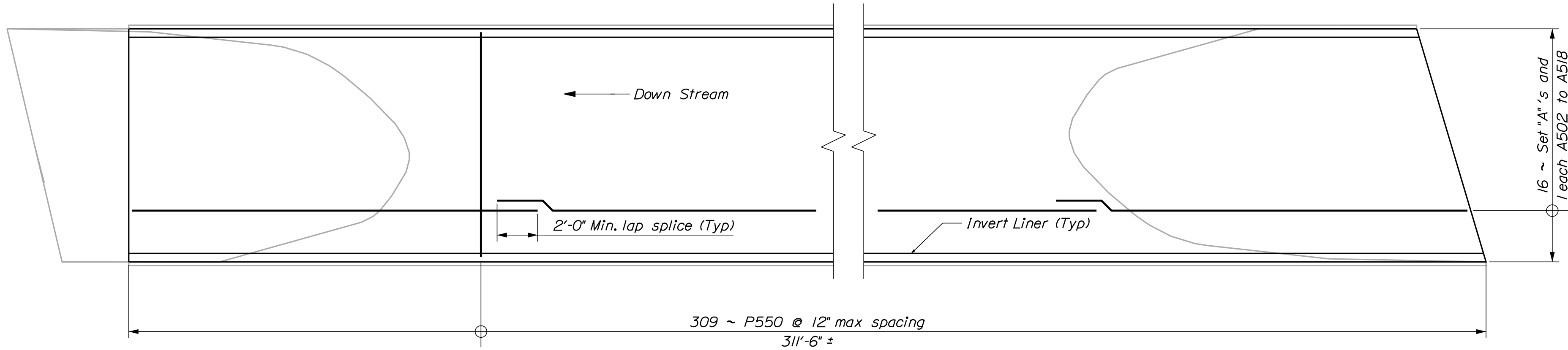
INVERT LINER SECTION



FISH WEIR SECTION
(Liner reinforcing not shown)



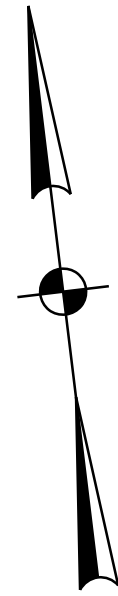
LINER CONNECTION DETAIL
(Shear Connector 1/2"φ x 3")
(Typical each edge of liner)



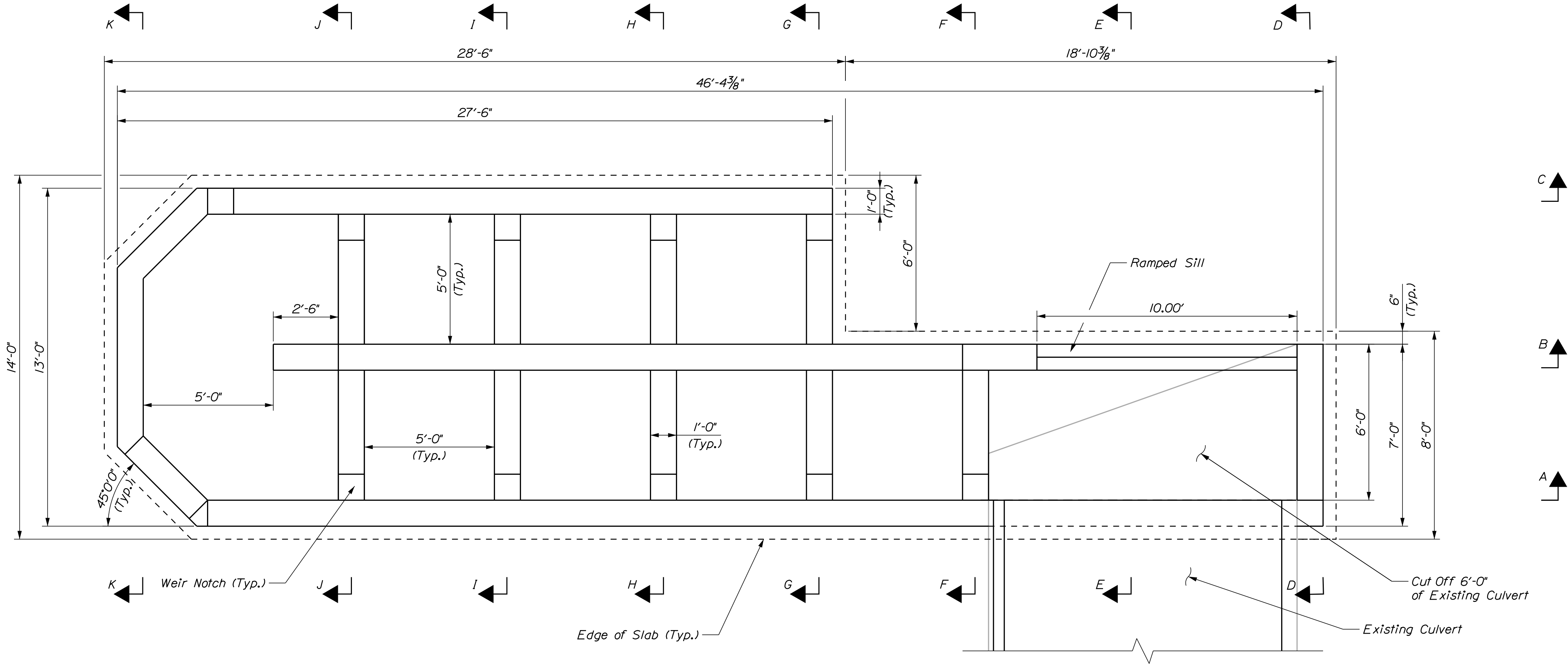
LINER REINFORCING
Weirs Not Shown For Clarity

Set A
II ~ A501

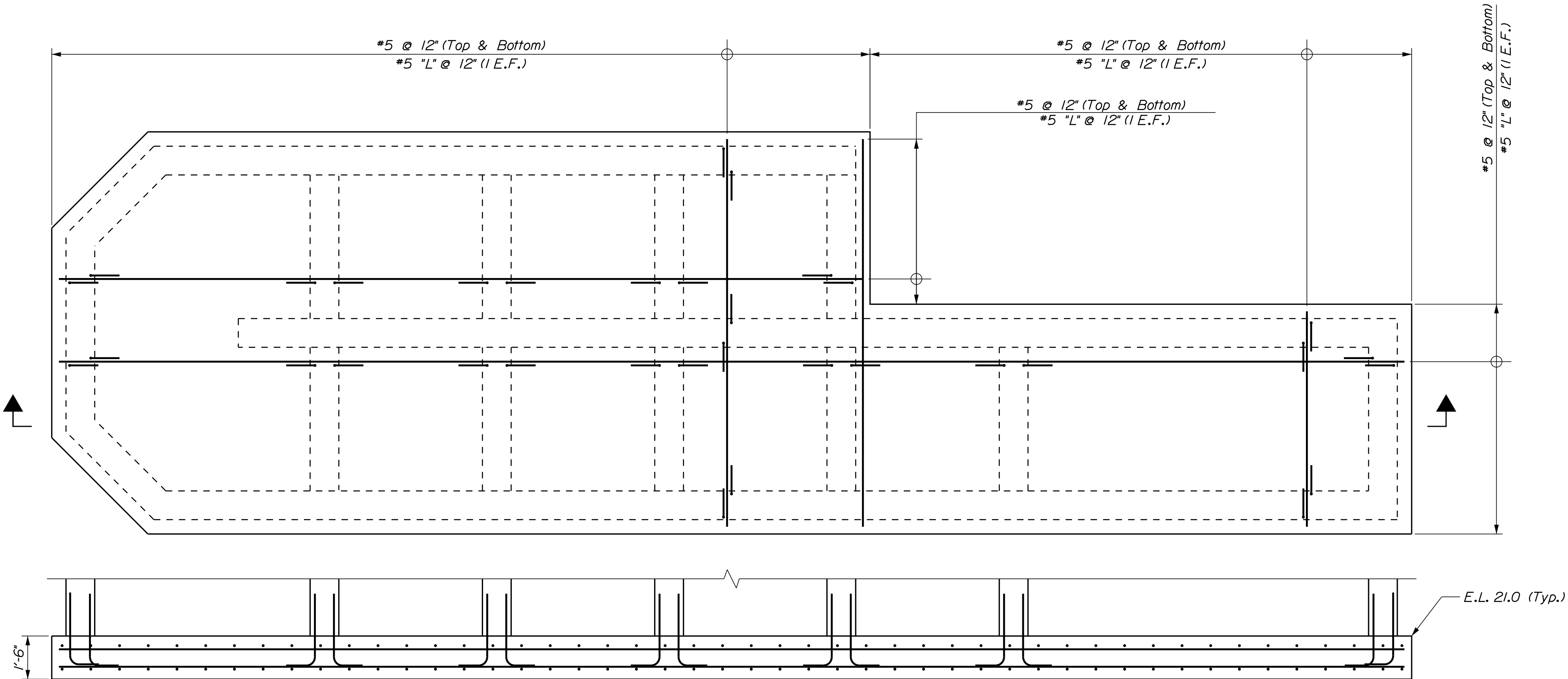
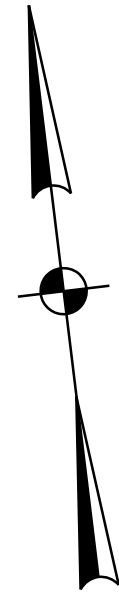
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE			
	P.E. NUMBER			
	DATE			
RED BROOK BRIDGE RED BROOK SOUTH PORTLAND CUMBERLAND COUNTY	PROJ. MANAGER	DEVAN EATON	BY	DATE
	DESIGN-DETAILED	R. NAJOS	MCRTICHLIOWLINE	2023
	CHECKED-REVIEWED	GUSTAFSSON	M. POULIN	JUNE 2023
	DESIGN-DETAILED			
	REVISIONS 1			
LINER DETAILS	REVISIONS 2			
	REVISIONS 3			
	REVISIONS 4			
	FIELD CHANGES			
SHEET NUMBER		BRIDGE NO. 023601.00		
2360100		WIN		
OF 13		BRIDGE PLANS		



A B C

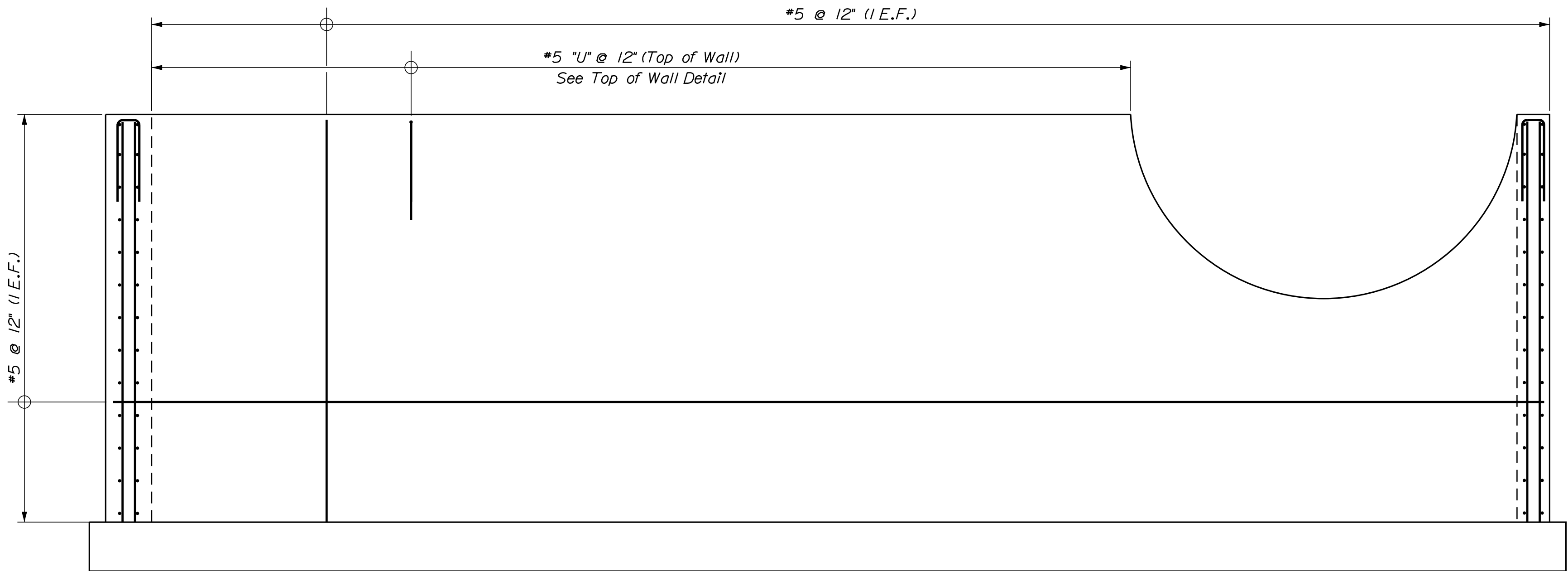


FISHWAY STRUCTURE PLAN

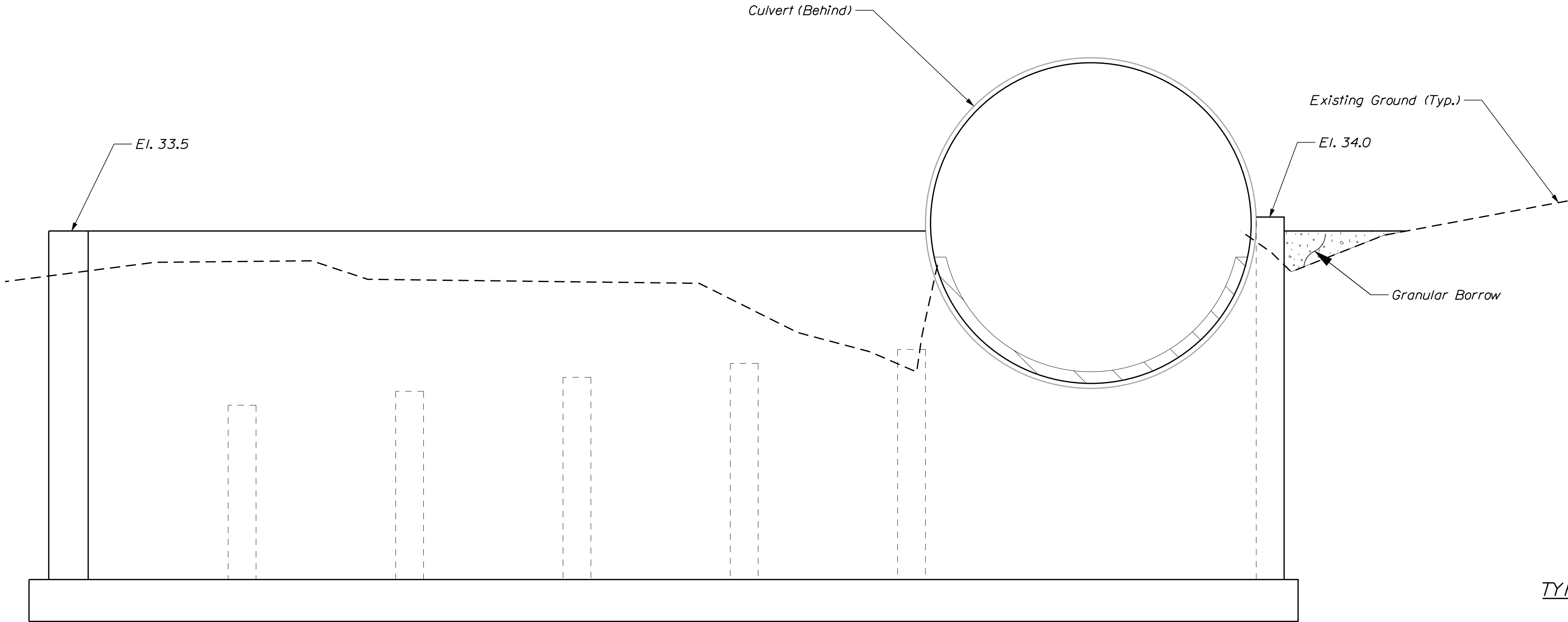


SLAB REINFORCING PLAN & SECTION

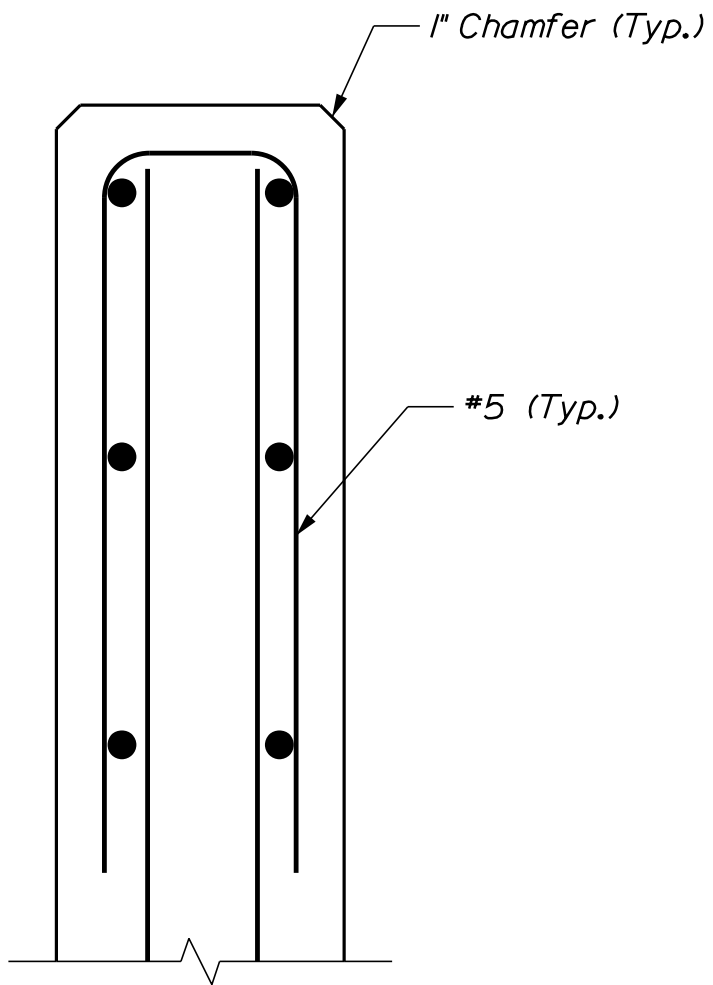
SHEET NUMBER		RED BROOK BRIDGE RED BROOK SOUTH PORTLAND CUMBERLAND COUNTY		PROJ. MANAGER DEVAN EATON		BY M. CRITCHLOW		DATE JUNE 2023	
6		FISHWAY STRUCTURE PLAN		DESIGN-DETAILED		R. NAQUIS		JUNE 2023	
				CHECKED-REVIEWED		GUSTAFSON		JUNE 2023	
				DESIGN2-DETAILED2					
				DESIGN3-DETAILED3					
				REVISIONS 1					
				REVISIONS 2					
				REVISIONS 3					
				REVISIONS 4					
				FIELD CHANGES					
STATE OF MAINE DEPARTMENT OF TRANSPORTATION				SIGNATURE		P.E. NUMBER			
BRIDGE NO. 6285		WIN		DATE					
023601.00								BRIDGE PLANS	



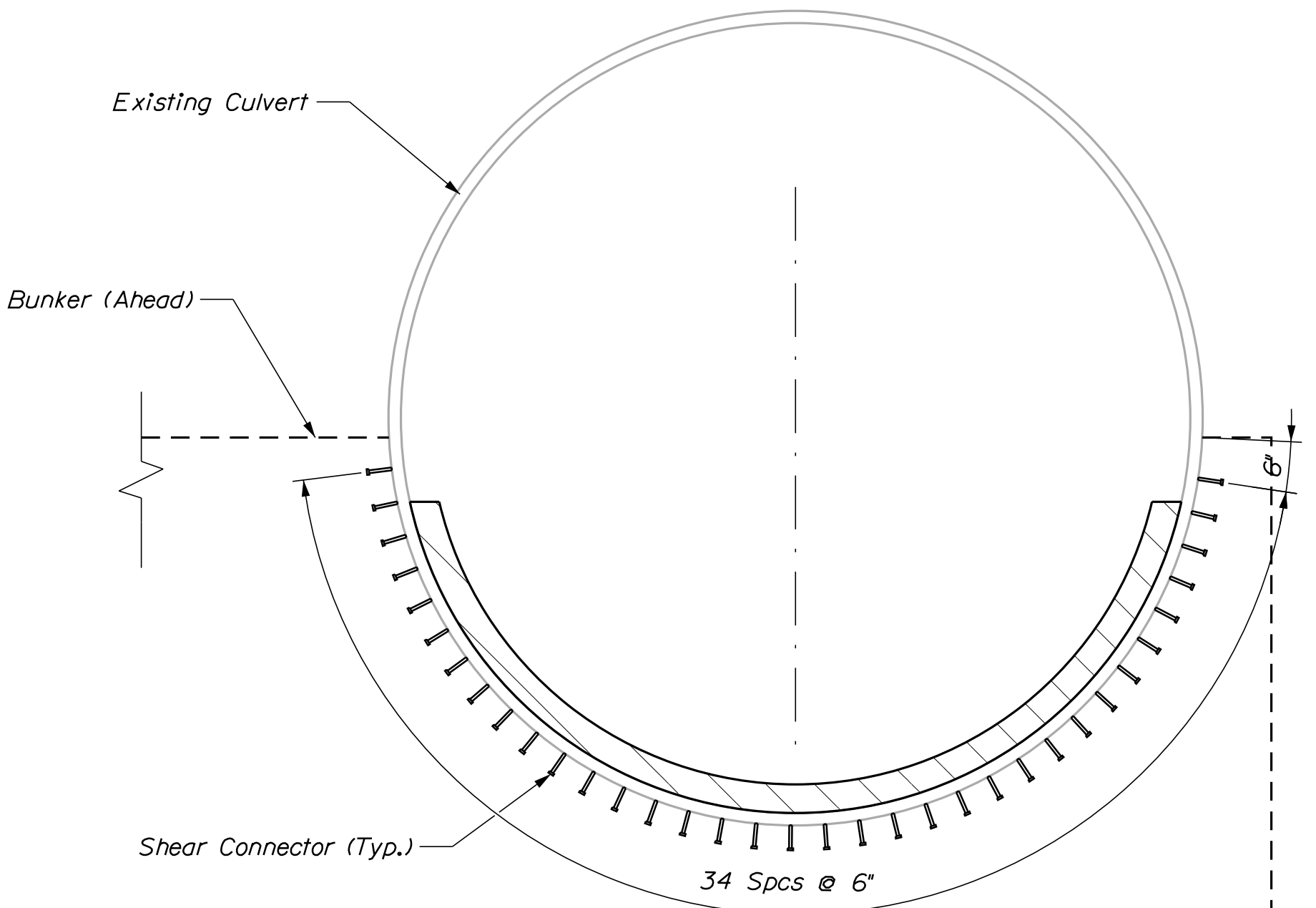
SECTION A-A, REINFORCING
(Slab Reinforcement Not Shown)



SECTION A-A, GEOMETRY



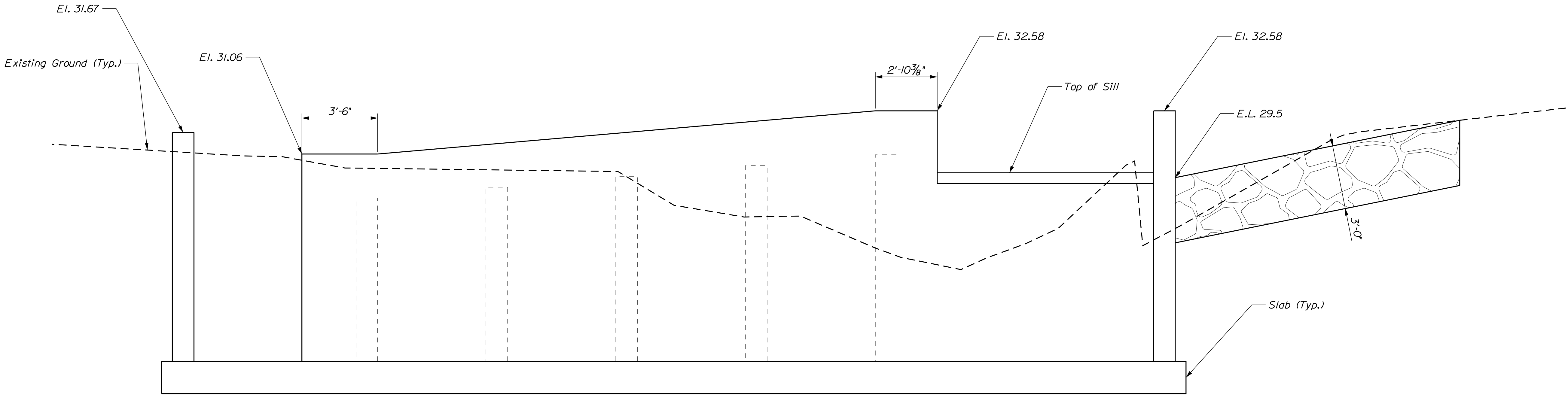
TYPICAL TOP OF WALL / TOP OF WEIR SECTION



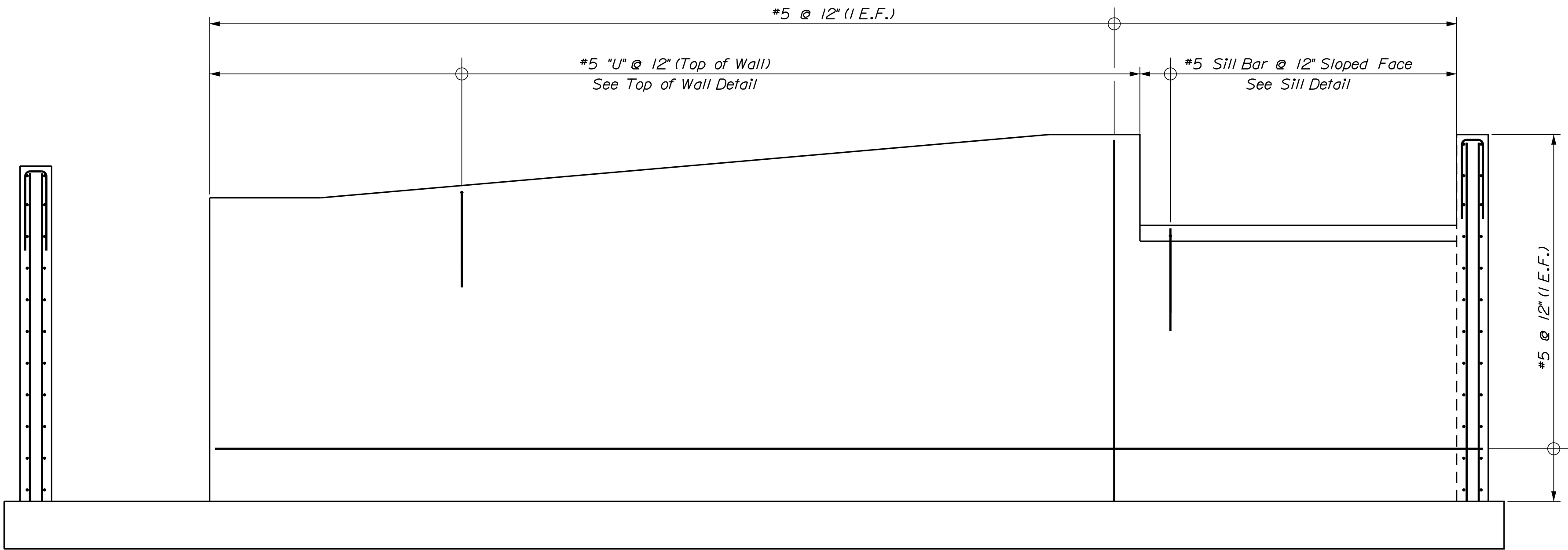
FISHWAY STRUCTURE CONNECTION DETAIL

(Note: Two rows of shear connectors shall be staggered longitudinally at 6" spacing around exterior of the culvert outlet. Shear connectors shall be 1/2"φ x 4" studs.)

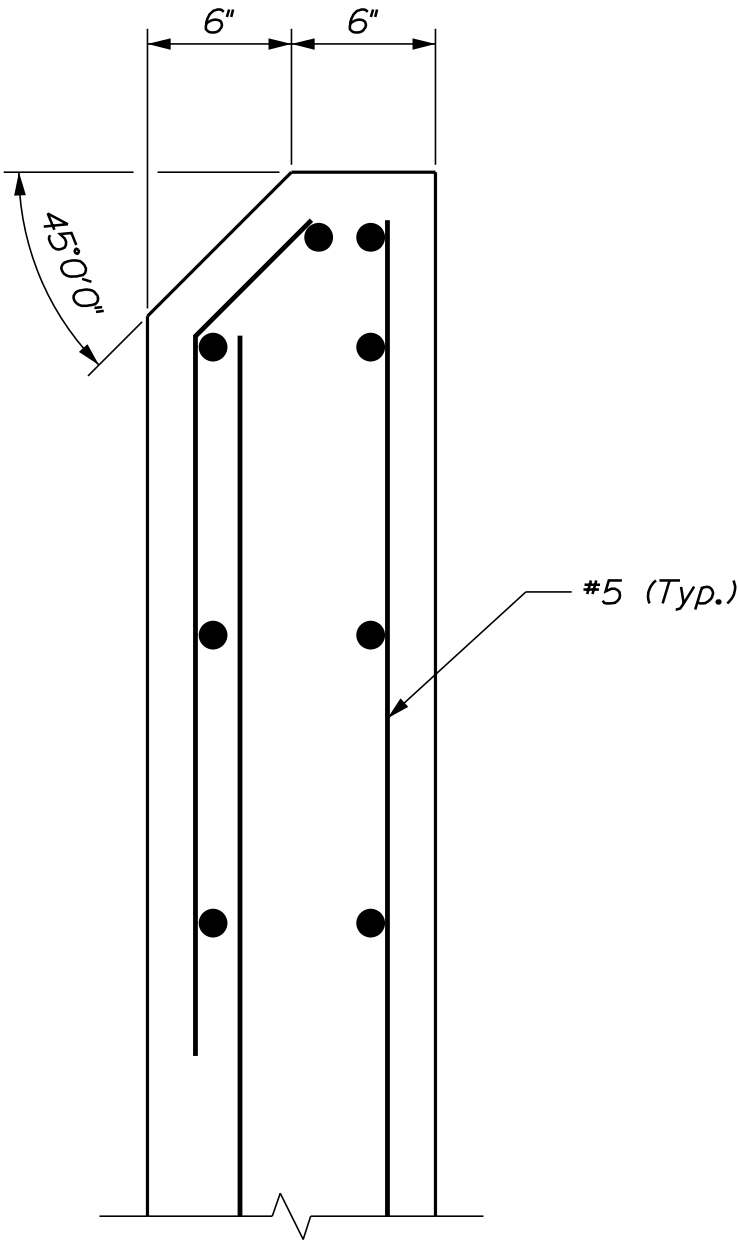
RED BROOK BRIDGE RED BROOK SOUTH PORTLAND CUMBERLAND COUNTY		PROJ. MANAGER DEVAN EATON		BY M. CRITCHLOW		DATE JUNE 2023	
FISHWAY STRUCTURE SECTIONS		DESIGN-DETAILED CHECKED-REVIEWED DESIGN-2 DETAILED2 DESIGN-3 DETAILED3		SIGNATURE		P.E. NUMBER	
		REVISIONS 1		DATE			
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SECTION B-B, GEOMETRY

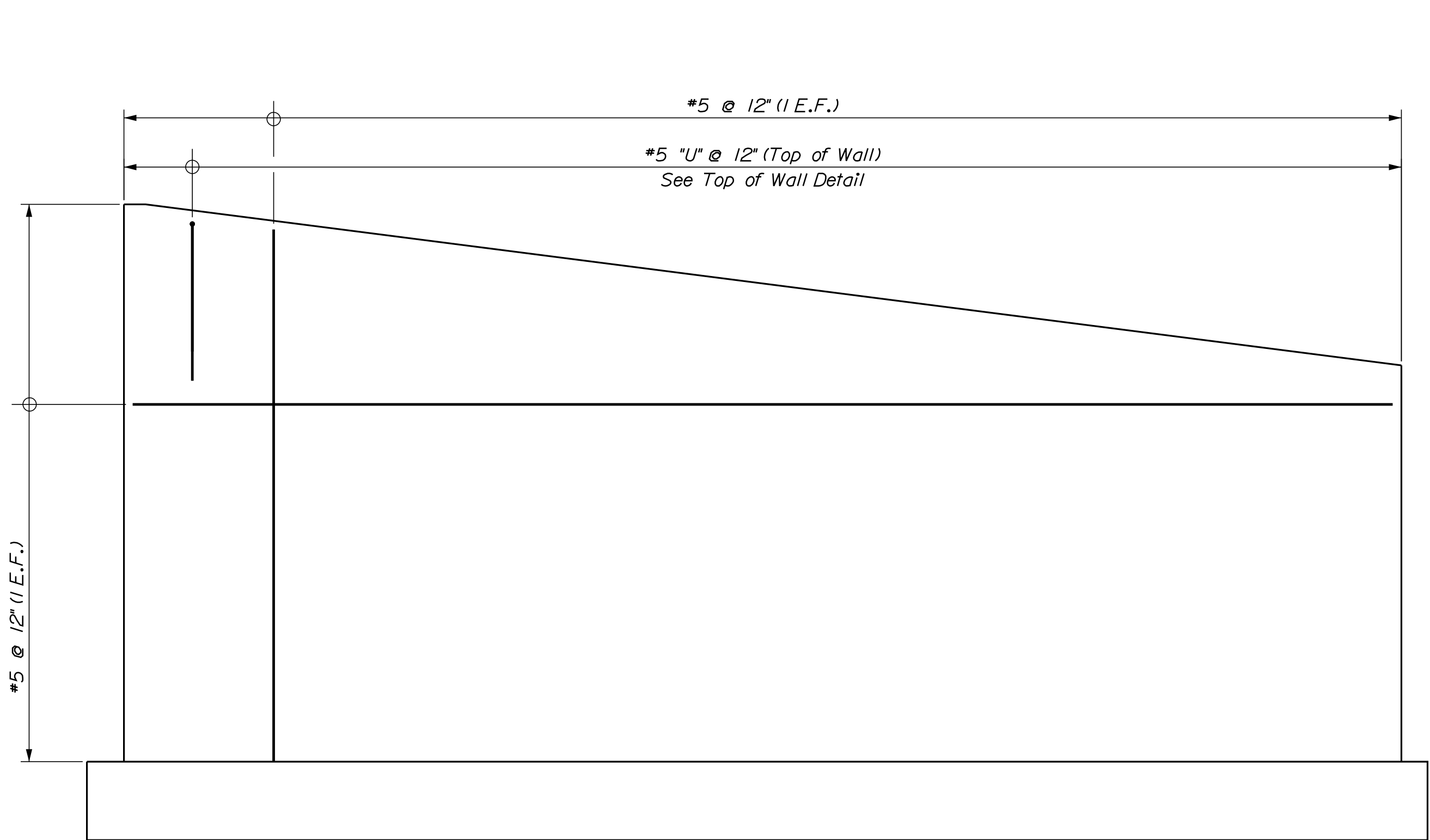


SECTION B-B, REINFORCING
(Slab Reinforcement Not Shown)

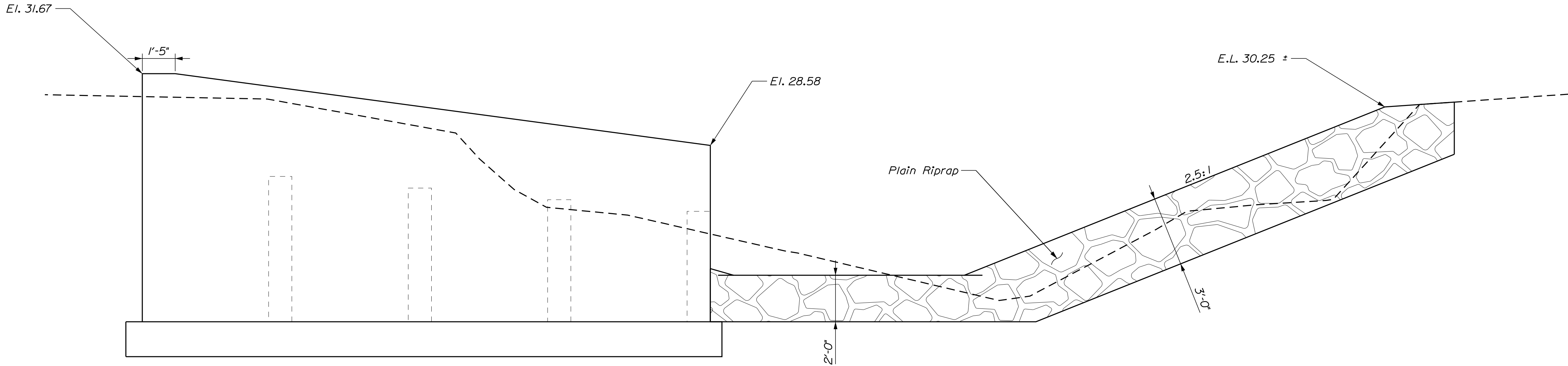


BUNKER SILL SECTION
(Typ.)

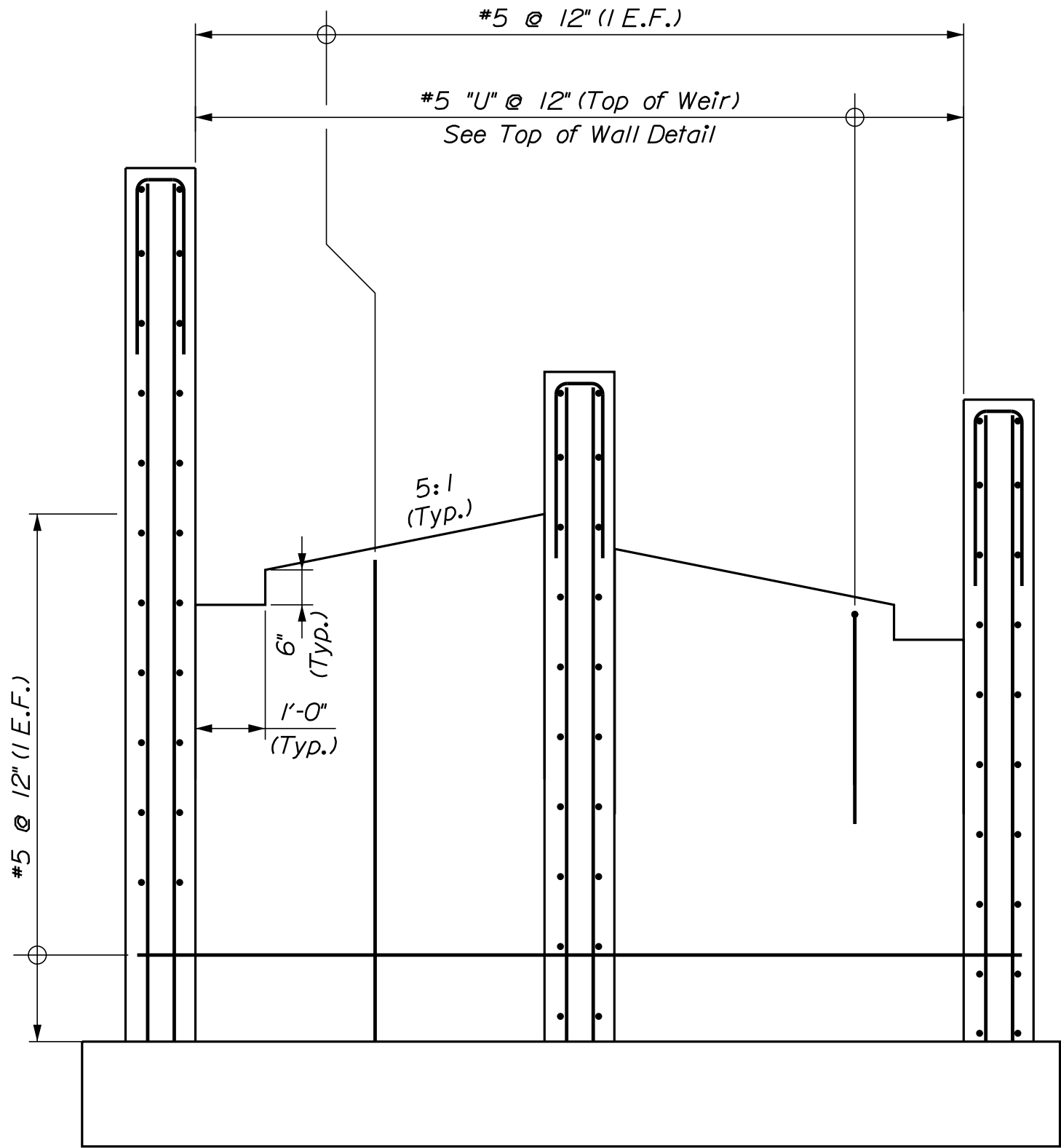
STATE OF MAINE DEPARTMENT OF TRANSPORTATION							
				2360100			
				WIN 023601.00			
				BRIDGE NO. 6285			
				BRIDGE PLANS			



SECTION C-C, REINFORCING
 (Slab Reinforcement Not Shown)

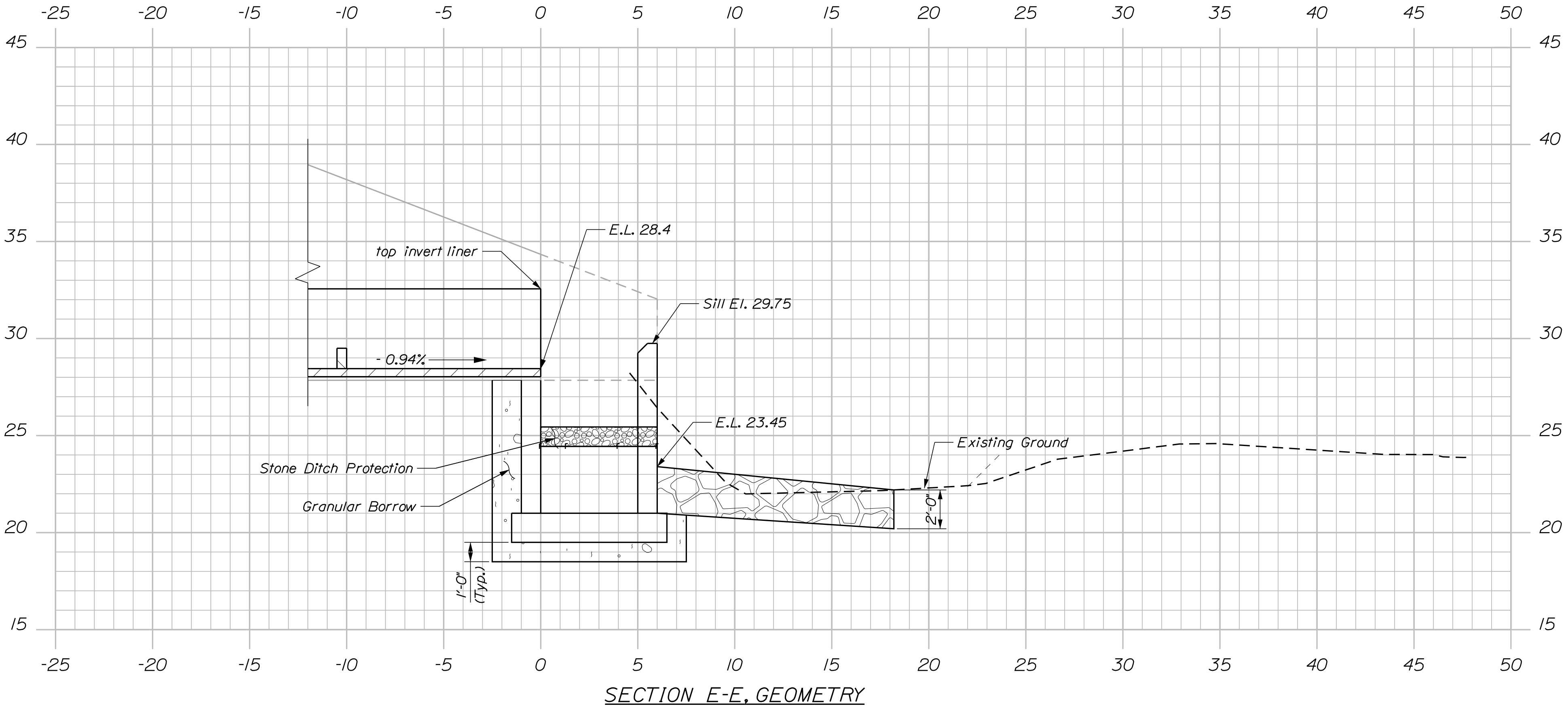
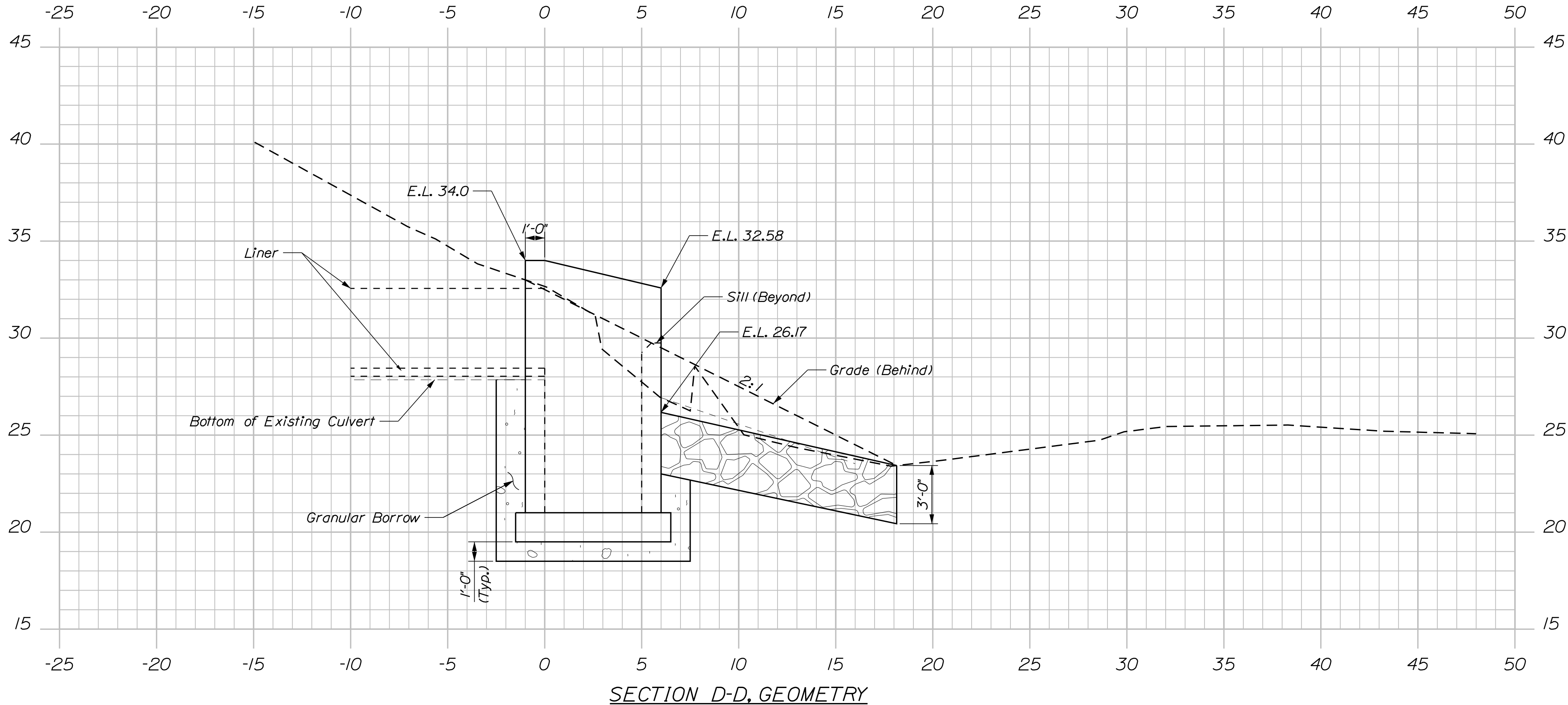


SECTION C-C, GEOMETRY



TYPICAL WEIR REINFORCING
 (All Other Weirs Similar. Slab Reinforcing Not Shown)

SHEET NUMBER				RED BROOK BRIDGE				PROJ. MANAGER		DEVAN EATON	BY	DATE	STATE OF MAINE		
9 OF 13				RED BROOK				DESIGN-DETAILED		R. MAOUS	M. CRITCHLOW	JUNE 2023	DEPARTMENT OF TRANSPORTATION		
				SOUTH PORTLAND CUMBERLAND COUNTY				CHECKED-REVIEWED		C. GUSTAFSON	M. POULIN	JUNE 2023			
								DESIGN2-DETAILED2						SIGNATURE	
								DESIGN3-DETAILED3						P.E. NUMBER	
								REVISIONS 1							
								REVISIONS 2							
								REVISIONS 3							
								REVISIONS 4							
								FIELD CHANGES				DATE			
				FISWAY STRUCTURE SECTIONS								BRIDGE NO. 6285			
												WIN			
												023601.00			
												BRIDGE PLANS			



PROJ. MANAGER	DEVAN EATON	BY	DATE
DESIGN-DETAILED	E. NAOUS	M. CRITCHLOW	JUNE 2023
CHECKED-REVIEWED	GUSTAFSON	M. POULIN	JUNE 2023
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

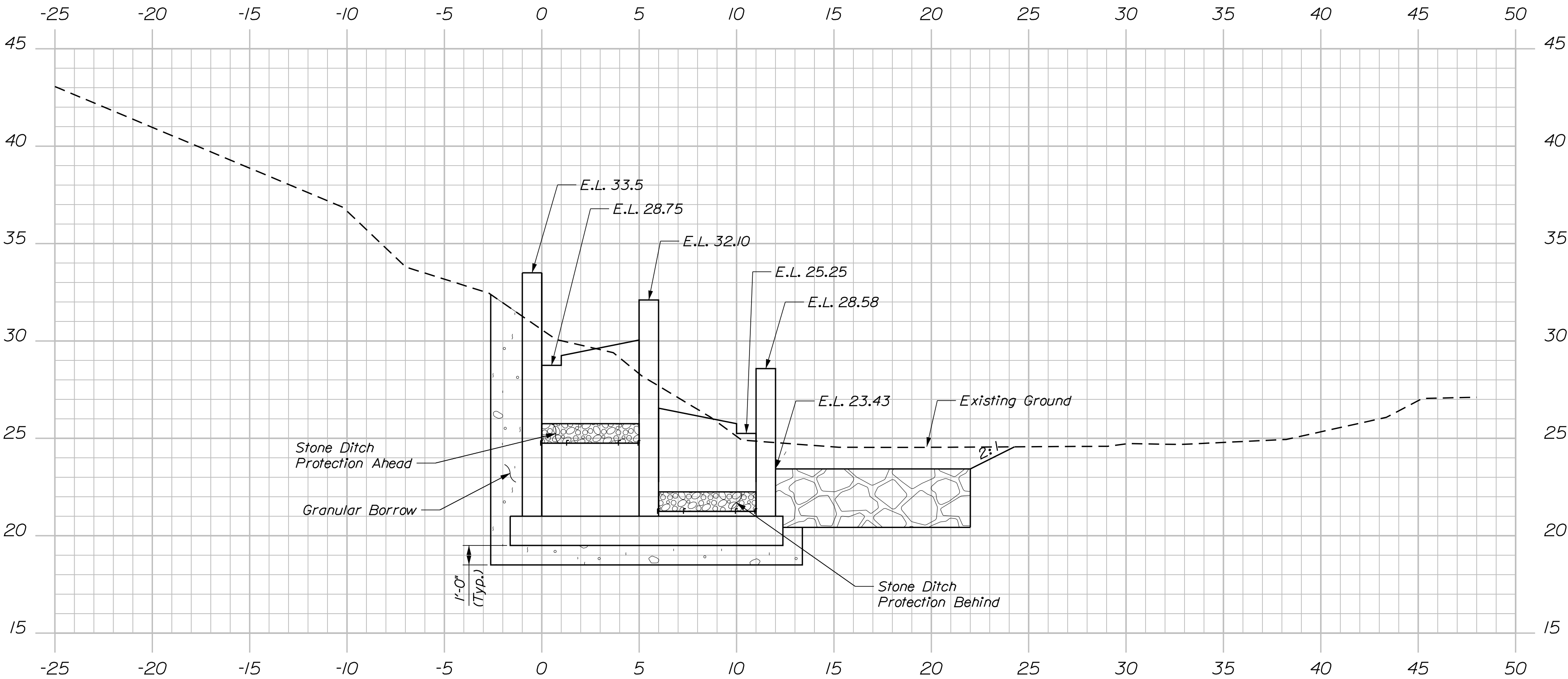
SIGNATURE	P.E. NUMBER	DATE

Date:7/7/2023

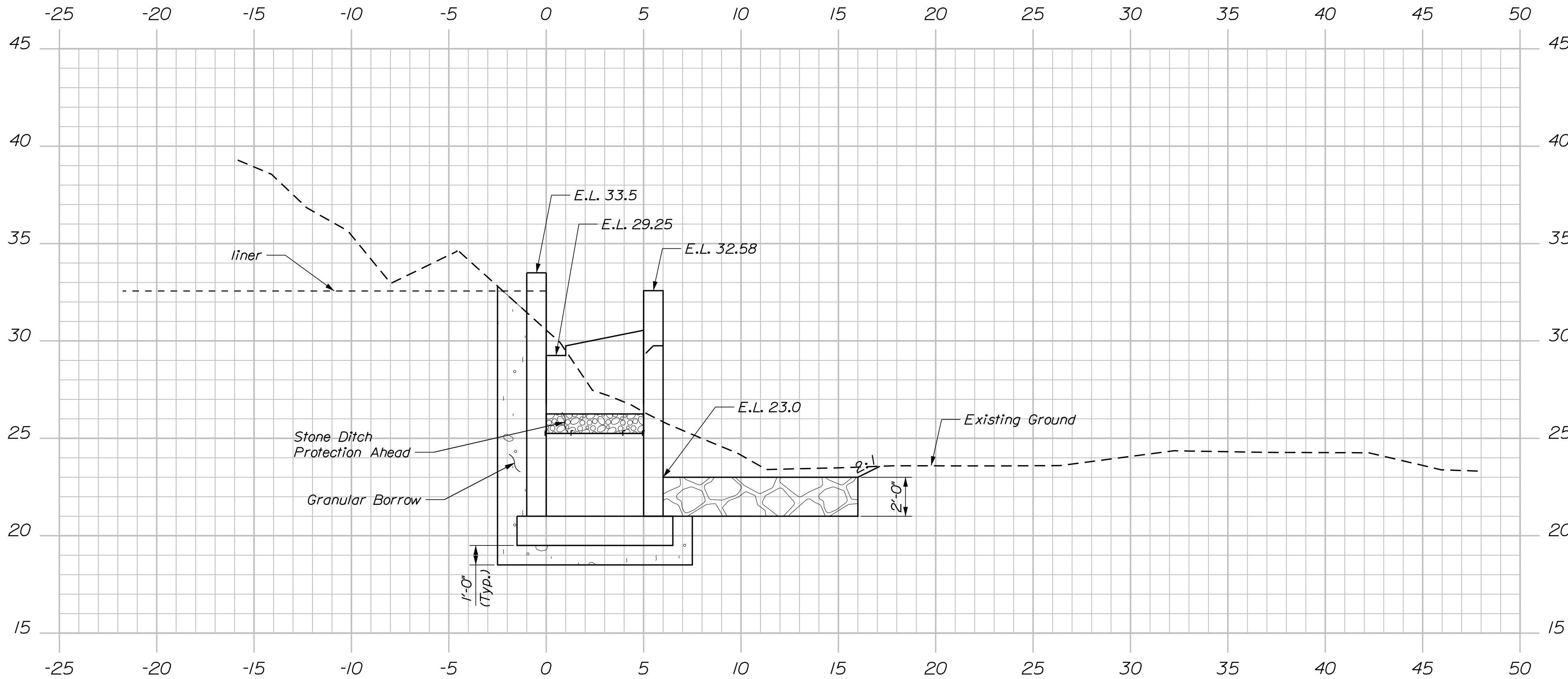
Username: devan.c.eaton

Division: BRIDGE

Filename: ... \MSTA\01_Bunker _xssect.dgn



SECTION G-G, GEOMETRY



SECTION F-F, GEOMETRY

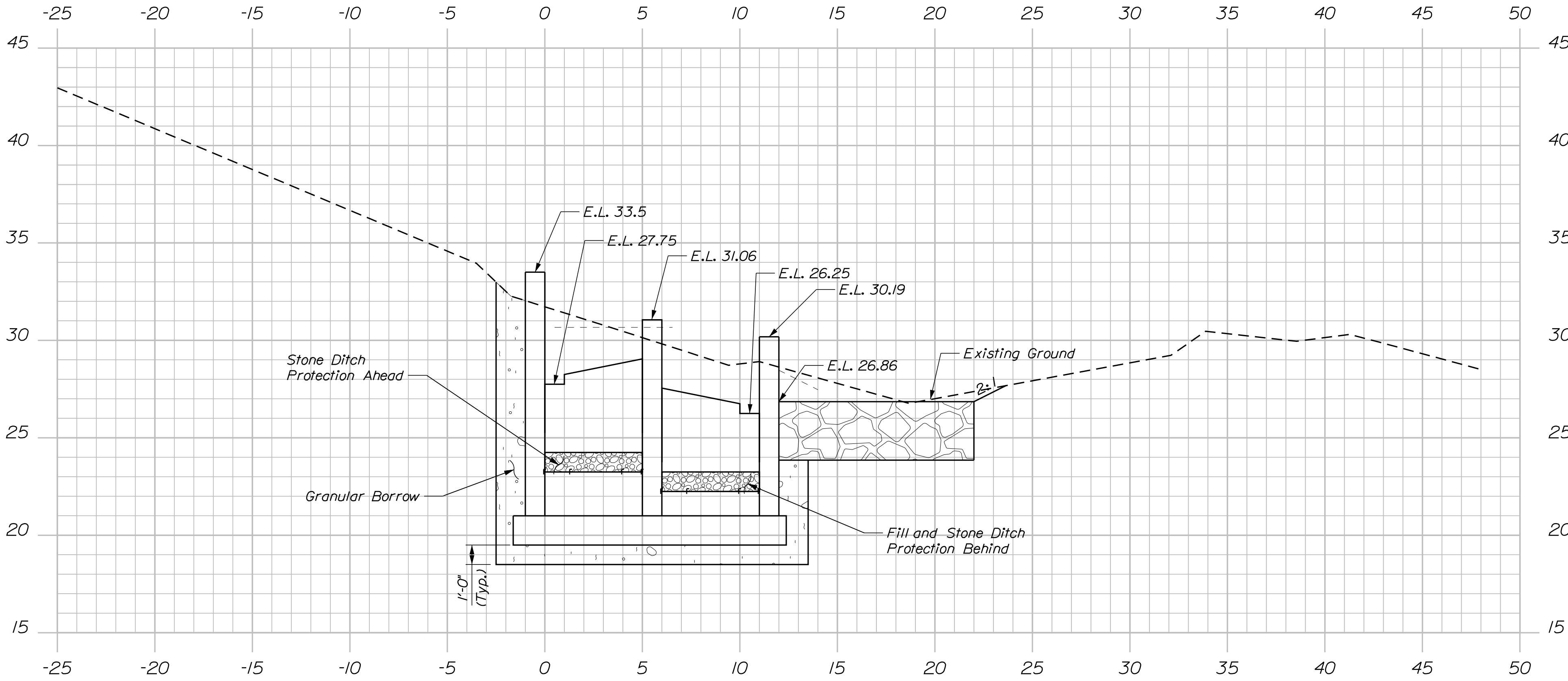
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
RED BROOK BRIDGE		2360100	
RED BROOK		WIN	
SOUTH PORTLAND CUMBERLAND COUNTY		023601.00	
FISHWAY STRUCTURE SECTIONS		BRIDGE NO. 6285	
SHEET NUMBER		11	
OF 13		BRIDGE PLANS	

Date:7/7/2023

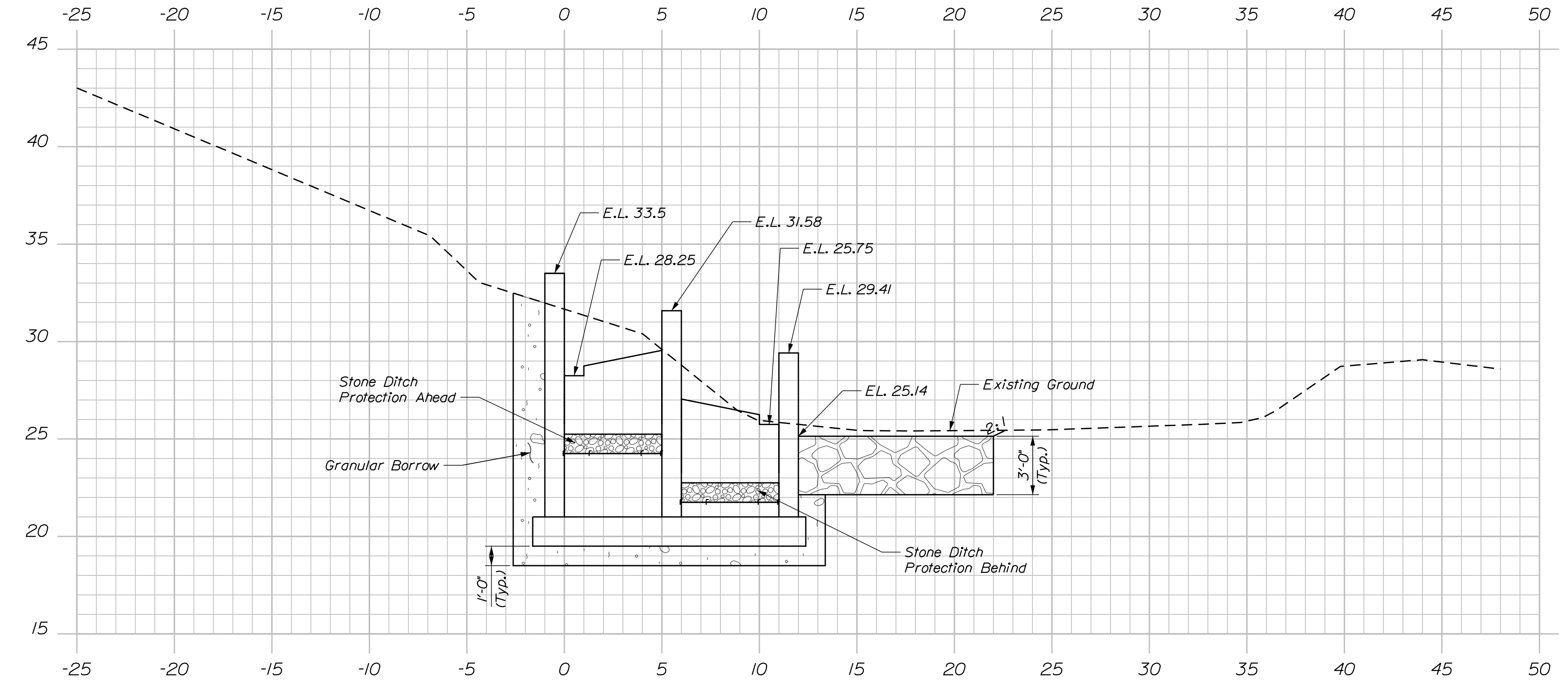
Username: devan.c.eaton

Division: BRIDGE

Filename: ... \MSTA\012_Bunker _xsect.dgn



SECTION I-I, GEOMETRY



SECTION H-H, GEOMETRY

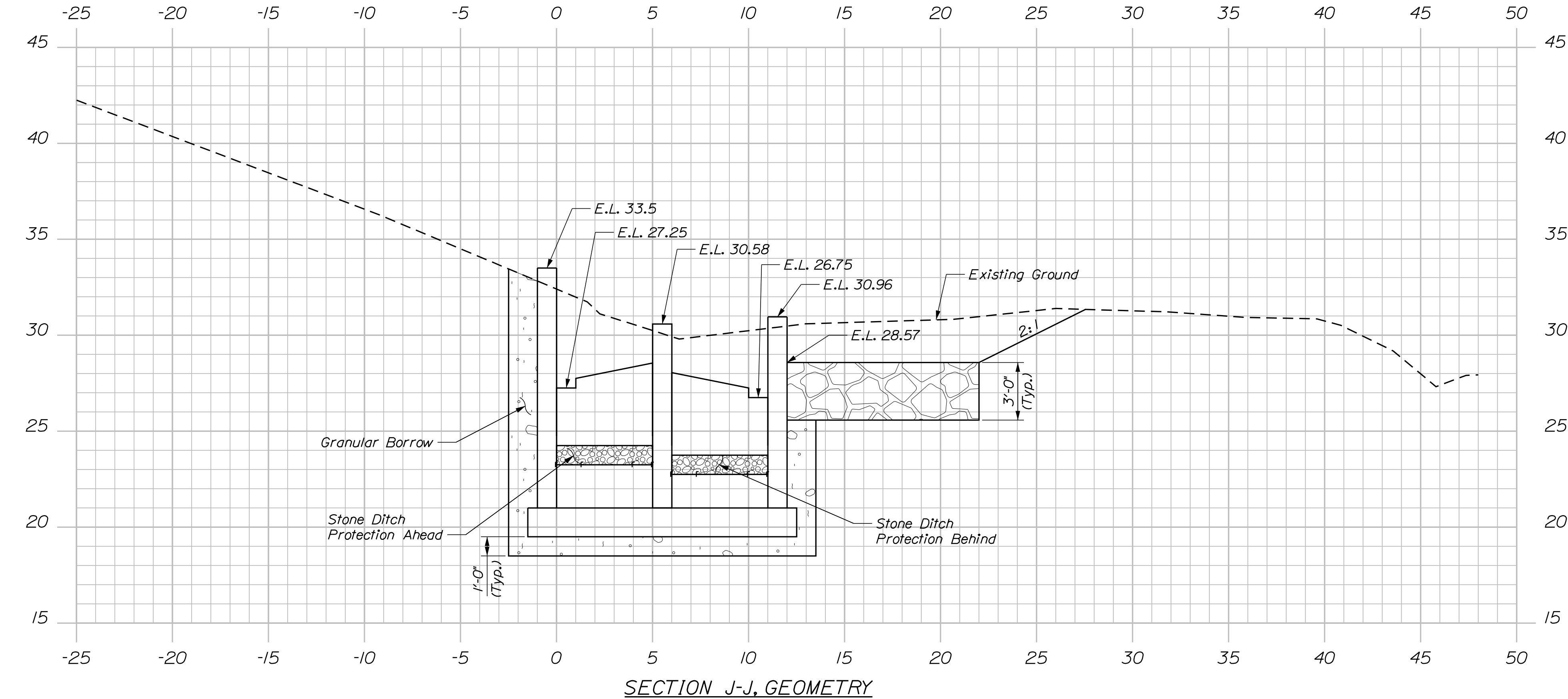
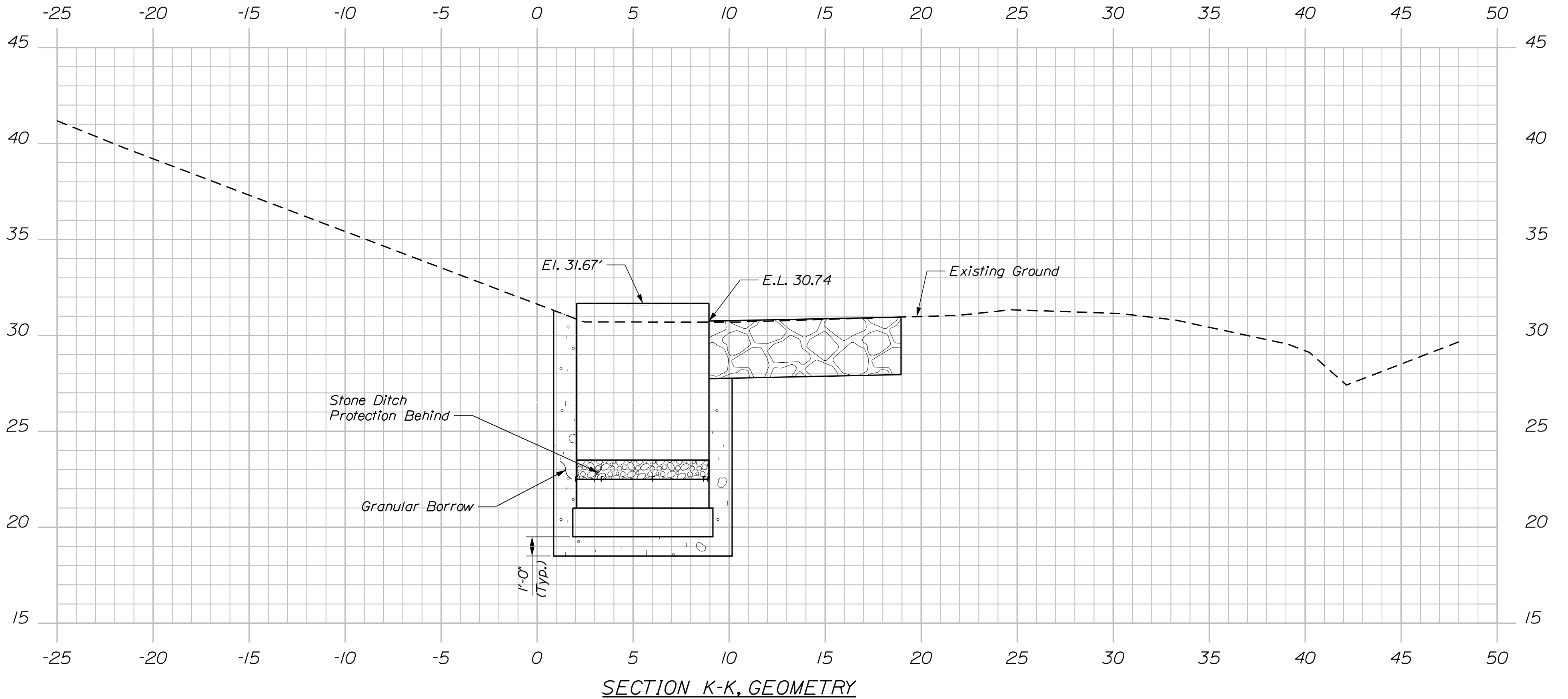
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
RED BROOK BRIDGE		2360100	
RED BROOK		WIN	
SOUTH PORTLAND CUMBERLAND COUNTY		023601.00	
FISHWAY STRUCTURE SECTIONS		BRIDGE NO. 6285	
SHEET NUMBER		12	
		OF 13	
PROJ. MANAGER		DEVAN EATON	
DESIGN-DETAILED		R. NAJOS	
CHECKED-REVIEWED		GUSTAFSON	
DESIGN-DETAILED		M. POULIN	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
DATE		JUNE 2023	
SIGNATURE			
P.E. NUMBER			
DATE			

Date:7/7/2023

Username: devan.c.eaton

Division: BRIDGE

Filename: ... \MSTA\013_Bunker _xsect.dgn



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
RED BROOK BRIDGE		2360100	
RED BROOK		WIN	
SOUTH PORTLAND CUMBERLAND COUNTY		023601.00	
FISHWAY STRUCTURE SECTIONS		BRIDGE NO. 6285	
SHEET NUMBER		13	
OF 13		BRIDGE PLANS	