

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



CUMBERLAND CUMBERLAND COUNTY NOYES BRIDGE OVER MILL BROOK ROUTE 9 / LONGWOODS ROAD FEDERAL PROJECT NO. 2618000 PROJECT LENGTH 0.102 mi. BRIDGE NO. 5932

SPECIFICATIONS

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

DESIGN LOADING

Live Load HL - 93 Modified for Strength 1

TRAFFIC DATA

Current (2022) AADT 3,830
 Future (2042) AADT 4,600
 DHV - % of AADT 12%
 Design Hour Volume 552
 Heavy Trucks (% of AADT) 4%
 Heavy Trucks (% of DHV) 2%
 Directional Distribution (% of DHV) 69%
 18 kip Equivalent P 2.0 42
 18 kip Equivalent P 2.5 40
 Design Speed (mph) 35 mph

HYDROLOGIC DATA

Drainage Area 4.2 sq mi
 Design Discharge (Q50) 745 cfs
 Check Discharge (Q100) 880 cfs
 Headwater Elevation (Q50) 48.2 ft
 Headwater Elevation (Q100) 48.71 ft
 Discharge Velocity (Q50) 4.95 fps
 Discharge Velocity (Q100) 5.44 fps

MATERIALS

Concrete:
 Precast Class "P"
 Reinforcing Steel: ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete:
 Class P f 'c = 5,000 psi
 Reinforcing Steel:
 ASTM A 615, Grade 60 f y = 60,000 psi

MAINTENANCE OF TRAFFIC

The bridge will be closed to traffic during construction with traffic detoured off-site.

UTILITIES

Central Maine Power Company, Charter Communications,
 Consolidated Communications of Northern New England

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
ACTING COMMISSIONER		1-7-26
CHIEF ENGINEER		1-6-26

SIGNATURE
P. E. NUMBER 12572
DATE December 23, 2025

PROJECT INFORMATION
PROGRAM BRIDGE PROGRAM
PROJECT MANAGER Jerry Dostie
DESIGNER Daniel Myers
CONSULTANT T.Y. Lin International
PROJECT RESIDENT CONTRACTOR
PROJECT COMPLETION DATE

CUMBERLAND NOYES BRIDGE
TITLE SHEET

SHEET NUMBER
1
OF 24

FED #2618000 WIN 26180.00

<u>PROJECT LOCATION:</u>	Noyes Bridge #5932 over Mill Brook. Located 0.15 Miles South of Intersection with Winn Road on Route 9 / Longwoods Road in Cumberland, Maine. Latitude 43 46'44.11"N, Longitude -70 15'19.48"W
<u>PROGRAM AREA:</u>	Bridge Program
<u>SCOPE OF WORK:</u>	Bridge Replacement



Date: 12/23/2025

Username:

Division: HIGHWAY

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Date: 12/23/2025

Username:

Division: HIGHWAY

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ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.19	REMOVING EXISTING BRIDGE	1	LS
202.202	REMOVING PAVEMENT SURFACE	85	SY
203.20	COMMON EXCAVATION	1200	CY
203.2318	DISPOSAL OF SPECIAL WASTE	580	T
203.24	COMMON BORROW	50	CY
203.25	GRANULAR BORROW	100	CY
203.33	SPECIAL FILL	120	CY
203.55	CULVERT BEDDING STONE	228	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1330	CY
403.2081	12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	190	T
403.209	HOT MIX ASPHALT, 9.5 MM NOMINAL MAX. SIZE (DRIVES AND INCIDENTALS)	10	T
403.2131	HOT MIX ASPHALT, 12.5 MM NOMINAL MAX. SIZE (BASE AND INTERMEDIATE BASE COURSE, POLYMER MODIFIED)	310	T
409.15	BITUMINOUS TACK COAT, APPLIED	70	GAL
508.13	SHEET WATERPROOFING MEMBRANE (250 SY)	1	LS
511.07	COFFERDAM	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (450 SY)	1	LS
526.301	PORTABLE CONCRETE BARRIER, TYPE 1 (60 LF)	1	LS
534.71	PRECAST CONCRETE BOX CULVERT	1	LS
603.16	15" CULVERT PIPE OPTION 1	63	LF
603.191	24" CORRUGATED METAL PIPE	4	LF
606.1301	3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)	260	LF
606.1303	3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)	15	LF
606.1305	3" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL (3" HEIGHT)	3	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.743	GUARDRAIL - SINGLE RAIL CULVERT MOUNTED	28	LF
610.08	PLAIN RIPRAP	250	CY
610.18	STONE DITCH PROTECTION	15	CY
610.213	VOID FILLED RIPRAP	360	CY
613.319	EROSION CONTROL BLANKET	75	SY
615.07	LOAM	80	CY
618.13	SEEDING METHOD NUMBER 1	6	UN
618.14	SEEDING METHOD NUMBER 2	8	UN
619.12	MULCH	14	UN
619.14	EROSION CONTROL MIX	40	CY
620.54	STABILIZATION/REINFORCEMENT GEOTEXTILE	740	SY
620.58	EROSION CONTROL GEOTEXTILE	640	SY
620.65	REINFORCEMENT GEOGRID	350	SY
627.733	4" WHITE OR YELLOW PAVEMENT MARKING LINE	1700	LF
629.05	HAND LABOR, STRAIGHT TIME	100	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	30	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	30	HR
639.19	FIELD OFFICE, TYPE B	1	EA
652.312	TYPE III BARRICADE	8	EA
652.33	DRUM	10	EA
652.34	CONE	40	EA
652.35	CONSTRUCTION SIGNS	400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGERS	300	HR
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL NOTES:

- For easements, construction limits, and right of way lines, refer to 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.
- 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.
- 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, placed below EL. 43.0 shall be Granular Borrow meeting the requirements of Standard Specifications Subsection 703.19, Granular Borrow, for Material for Underwater Backfill, with the additional requirement that the maximum particle size be limited to 4 inches.
- 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:
Concrete headwalls, including to one foot inside the box;
Exposed tops of vertical walls and to one foot below the ground on the back side;
Exposed faces of vertical walls and to one foot inside the box.
- 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: Geotechnical Design Report, Noyes Bridge #5932 Replacement, dated October 2025, may be accessed at the MaineDOT web address.
- Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.
- 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.
- This site lends itself to different cofferdam configurations, depending on the Contractor's means and methods and considering that a temporary earth support system will be needed (Refer to Plan Sheet 19, Culvert Details 2 of 2). Rather than speculate on how the bidders will configure the cofferdams, the Department has provided a single pay item to be used to cover all cofferdams on the project, regardless of how many are actually used.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
Fed. #2618000		WIN	
26180.00		BRIDGE #6932	
BRIDGE PLANS			
PROJ. MANAGER	JERRY DOSTIE	DATE	10/2025
DESIGN-DETAILED	J. LEGERE	BY	J. LEGERE
CHECKED-REVIEWED	D. MYERS	DATE	10/2025
DESIGNS DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
NOYES BRIDGE			
OVER MILL BROOK			
CUMBERLAND COUNTY			
ESTIMATED QUANTITIES & GENERAL NOTES			
SHEET NUMBER			

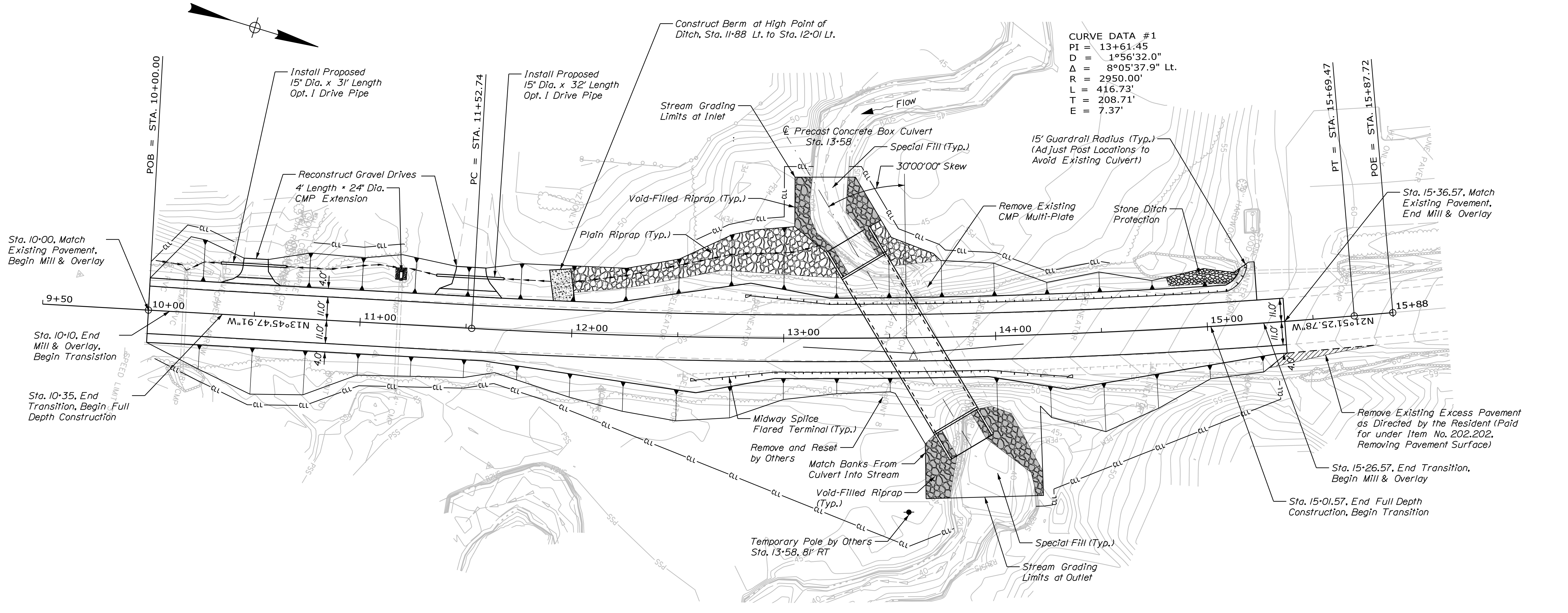


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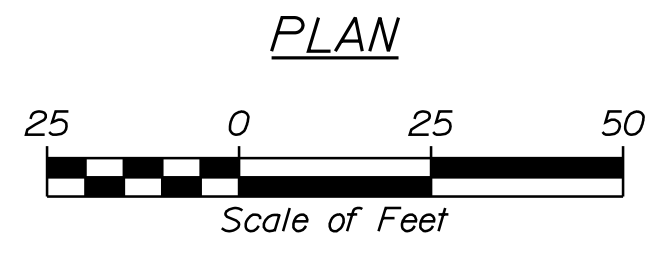
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Division: HIGHWAY

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CURVE DATA #1
 PI = 13+61.45
 D = 1°56'32.0"
 Δ = 8°05'37.9" Lt.
 R = 2950.00'
 L = 416.73'
 T = 208.71'
 E = 7.37'



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		Fed. #2618000	
NOYES BRIDGE OVER MILL BROOK CUMBERLAND COUNTY		WIN 26180.00	
GENERAL PLAN		BRIDGE #6932	
SHEET NUMBER		BRIDGE PLANS	
3		OF 24	

PROJ. MANAGER	JERRY DOSTIE	BY	DATE	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	L. Soo	J. Blanchard	8/2025				
CHECKED-REVIEWED	S. Davis	D. Myers	8/2025				
DESIGN-DETAILED							
REVISIONS 1							
REVISIONS 2							
REVISIONS 3							
REVISIONS 4							
FIELD CHANGES							

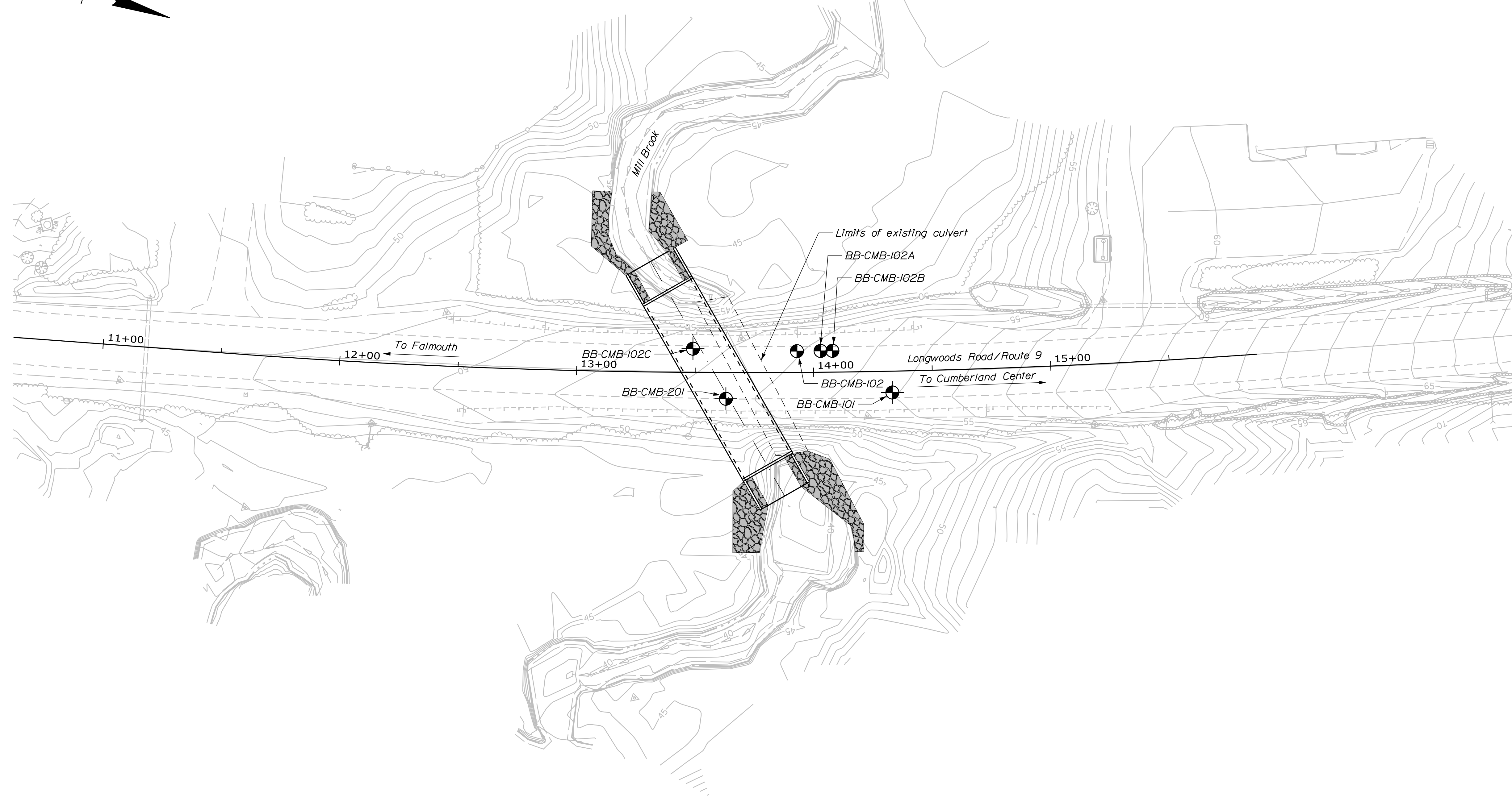
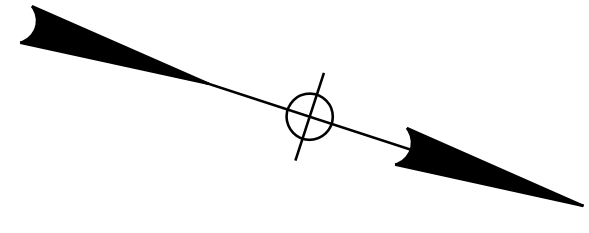


Date: 12/23/2025

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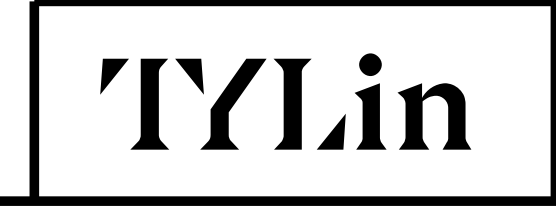
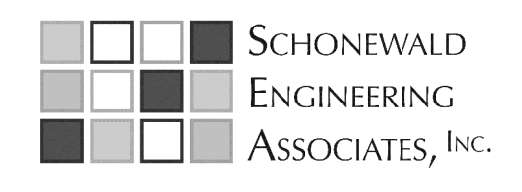
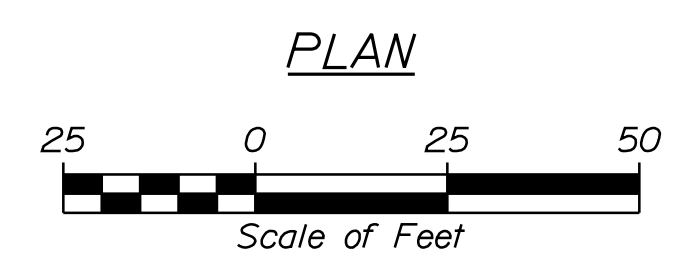
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LEGEND:

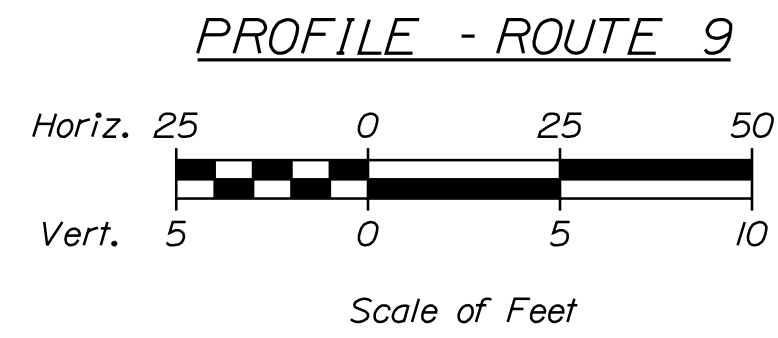
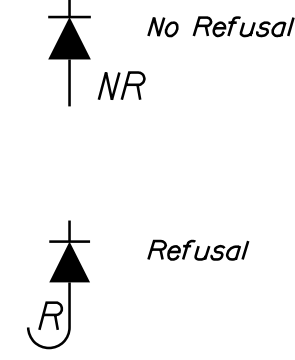
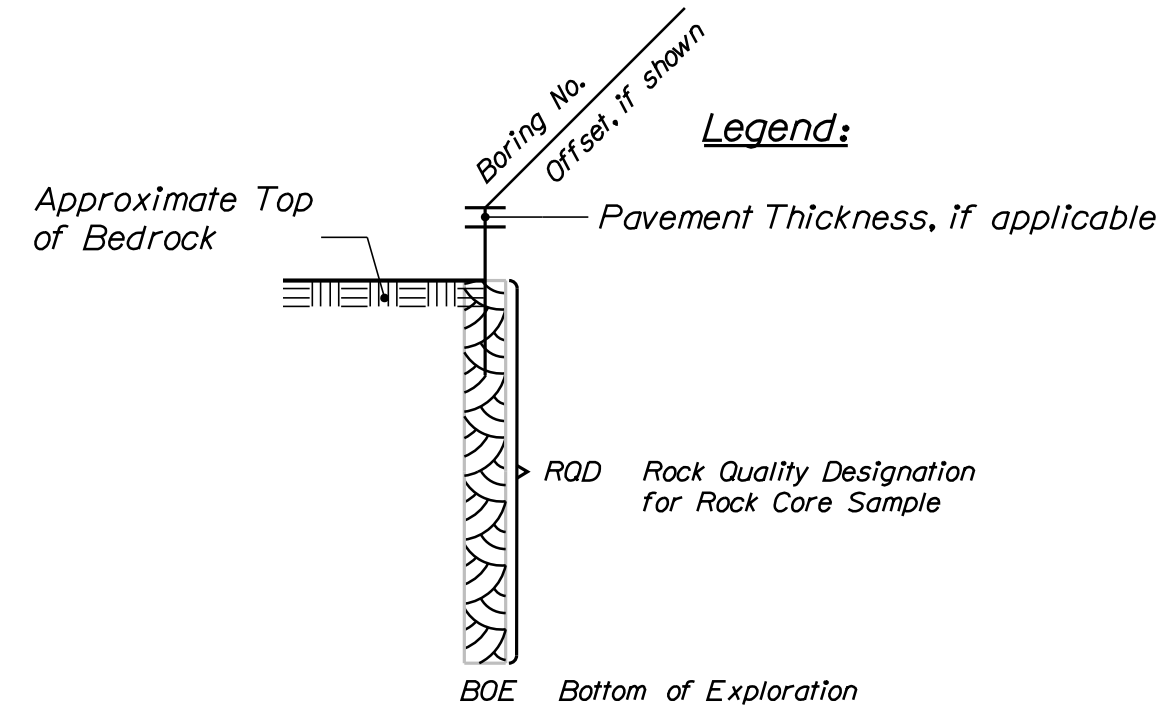
- Cased Wash Boring
- Probe



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		Fed. #2618000	
BRIDGE #6932		WIN 26180.00	
NOYES BRIDGE OVER MILL BROOK CUMBERLAND COUNTY		BORING LOCATION PLAN	
SHEET NUMBER		5	
OF 24		BRIDGE PLANS	

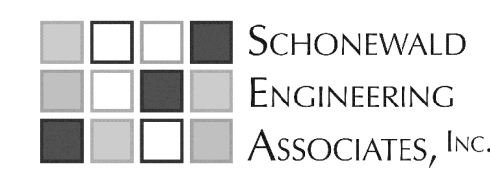
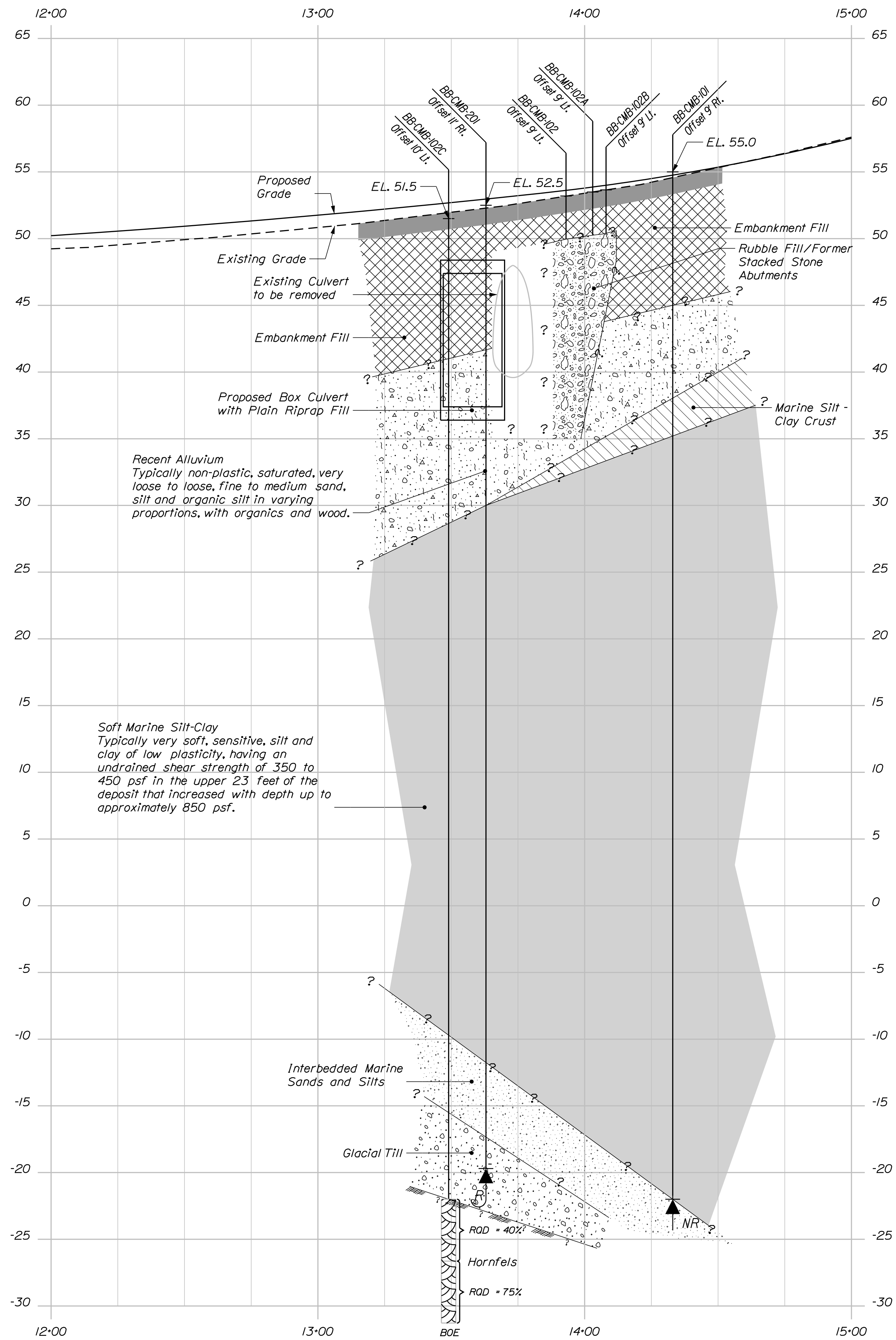
PROJ. MANAGER	JERRY DOSTIE	BY	DATE
DESIGN/DETAILED	L. SCHONWALD	S. MORGAN	12/2022
CHECKED/REVIEWED			
DESIGNS/DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	P.E. NUMBER	DATE

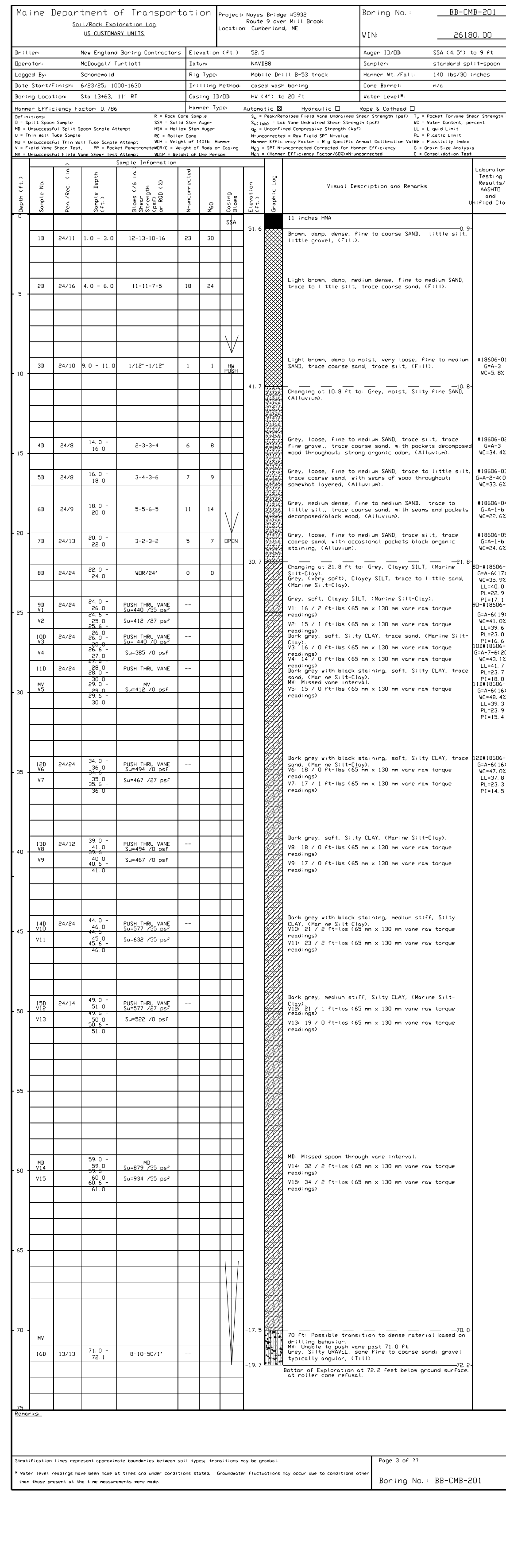
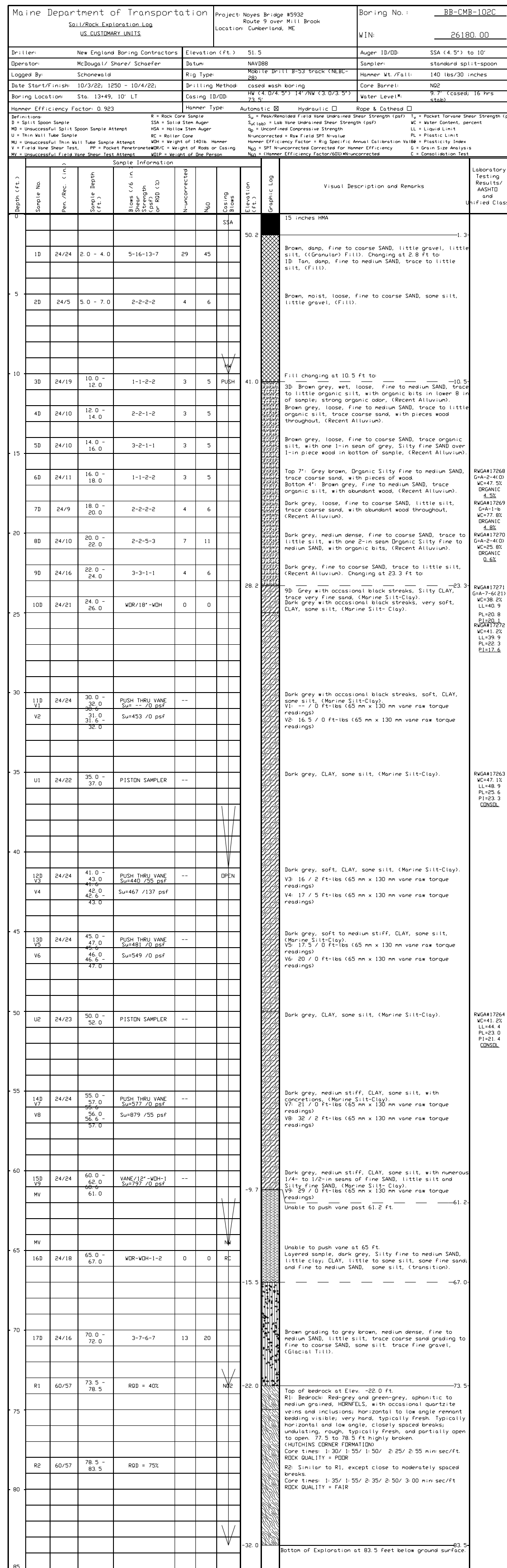
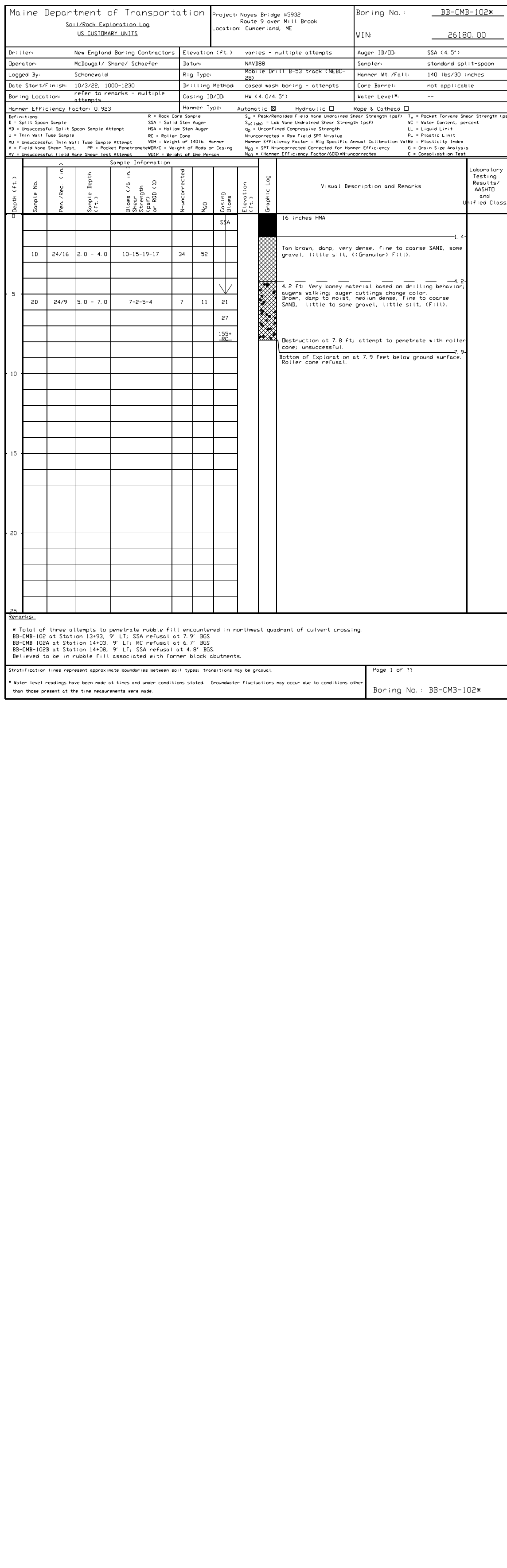
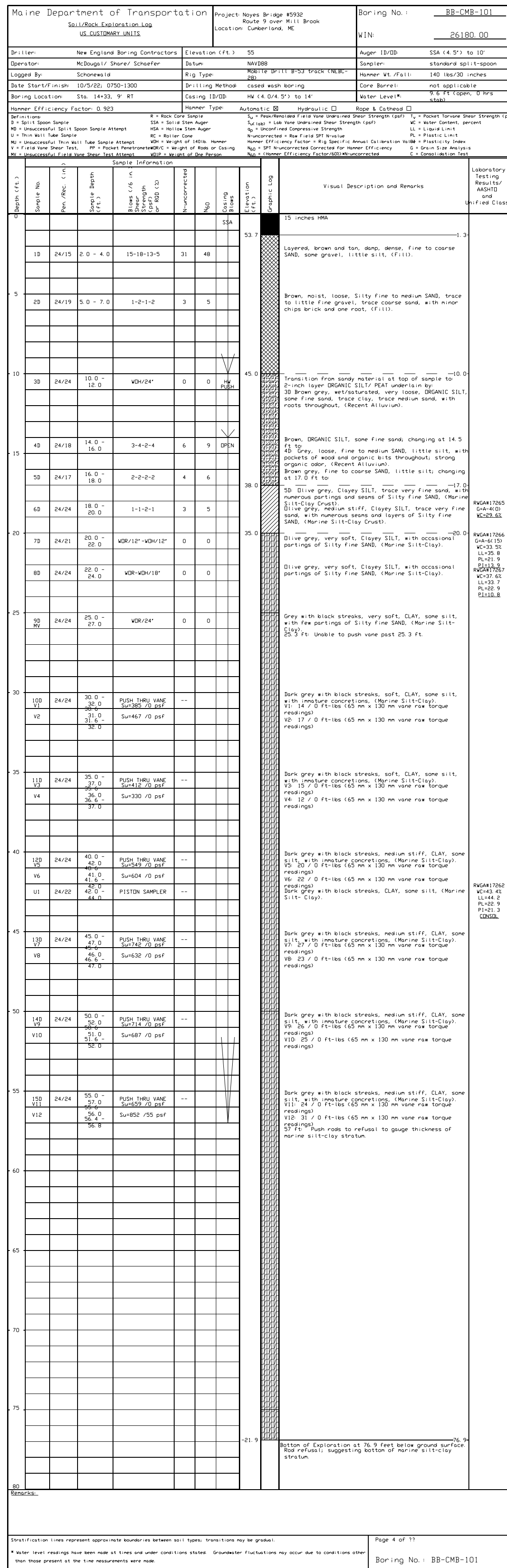


NOTE:

This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
Fed. #2618000		BRIDGE #6932	
WIN		26180.00	
BRIDGE PLANS			
PROJ. MANAGER	JERRY DOSTIE	BY	L. SCHONEWALD
CHECKED-REVIEWED		DATE	12/2022
DESIGN-DETAILED		SIGNATURE	
DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
NOYES BRIDGE OVER MILL BROOK CUMBERLAND COUNTY INTERPRETIVE SUBSURFACE PROFILE			
SHEET NUMBER			
6			
OF 24			

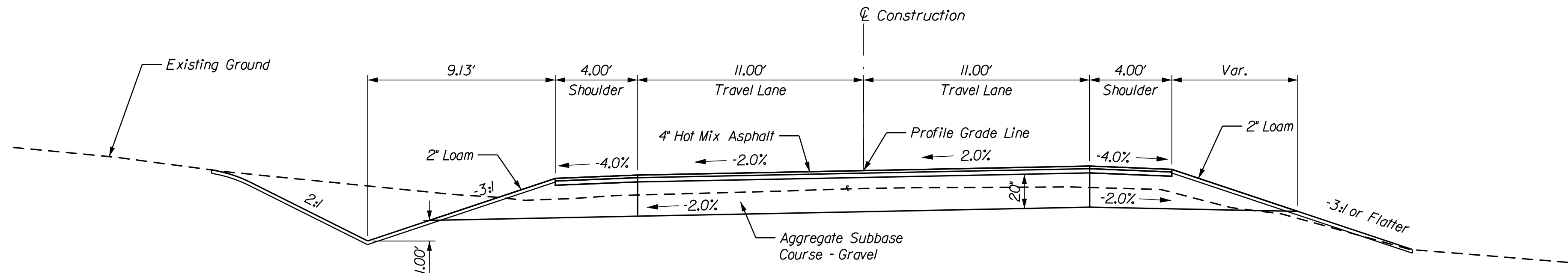


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #261800
WIN
26180.00
BRIDGE #6932
BRIDGE PLANS

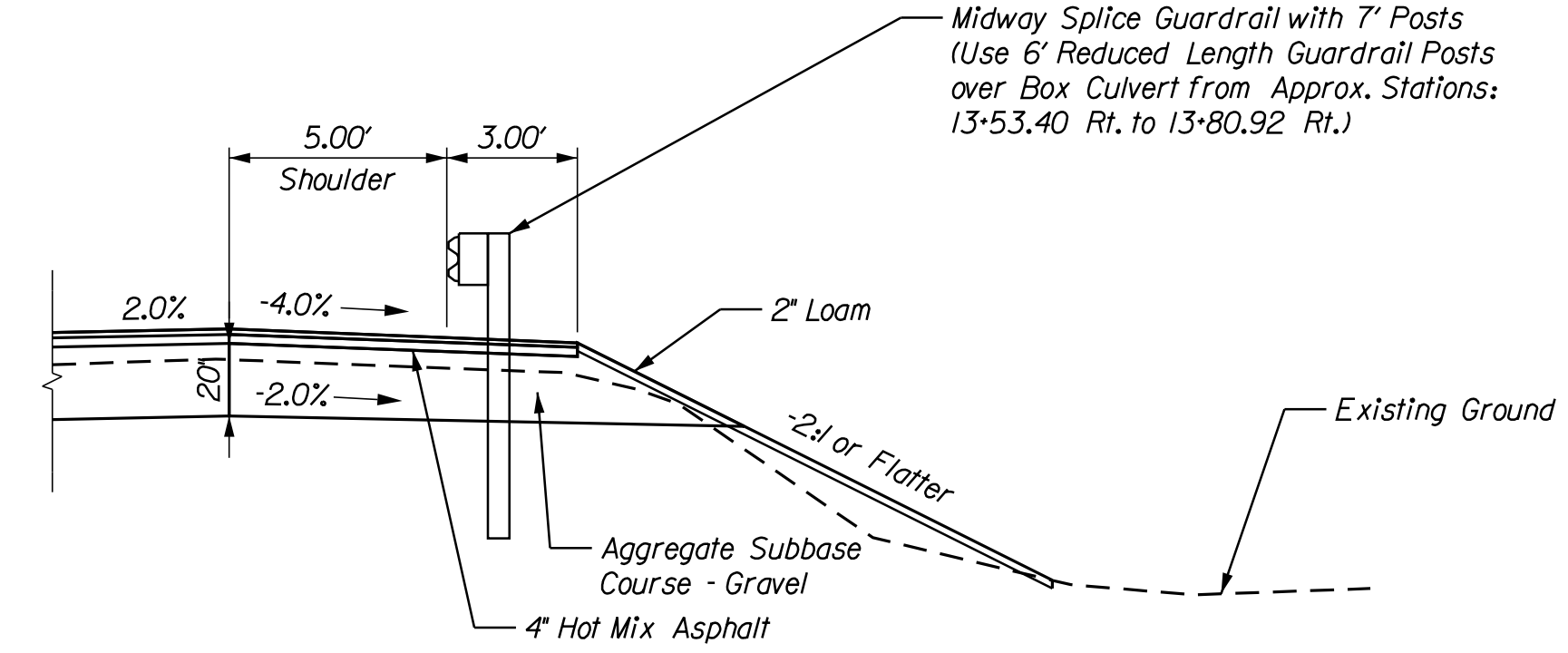
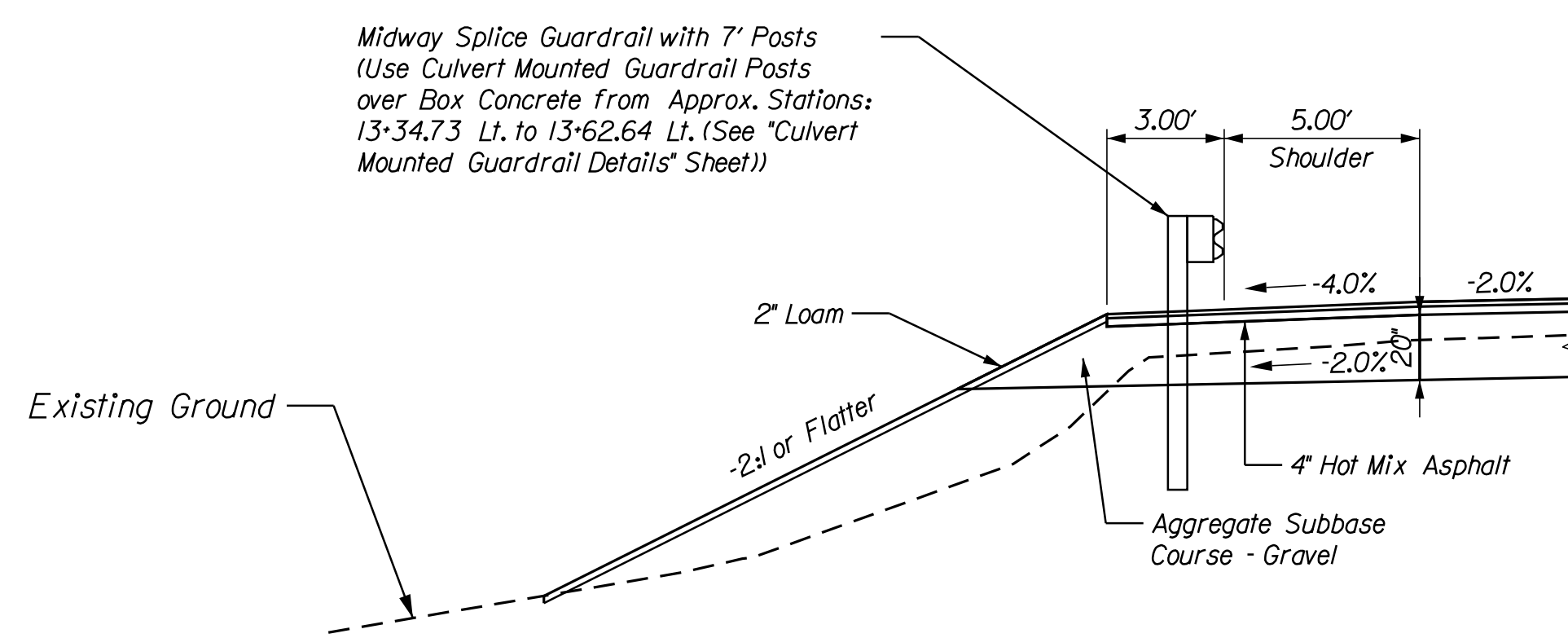
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OVER MILL BROOK
CUMBERLAND COUNTY
BORING LOGS

SHEET NUMBER

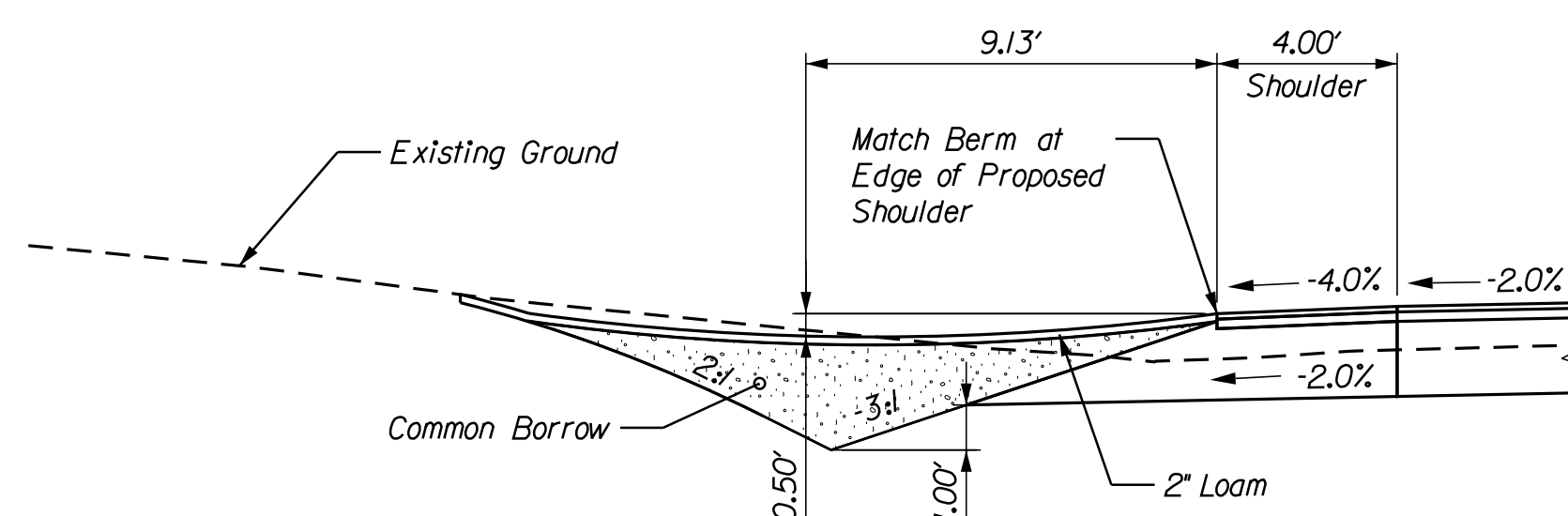
SCHONEWALD
 ENGINEERING
 ASSOCIATES, INC.
 TYLin
 OF 24



FULL RECONSTRUCTION
Sta. 10+35 to Sta. 15+01.57



GUARDRAIL SHOULDERS
Sta. 13+22 Lt. to Sta. 15+10 Lt.
Sta. 12+96 Rt. to Sta. 13+96 Rt.



DITCH BERM
Sta. 11+88 Lt. to Sta. 12+01 Lt.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		Fed. #2618000		WIN		26180.00		BRIDGE #6932		BRIDGE PLANS	
NOYES BRIDGE		OVER MILL BROOK		CUMBERLAND COUNTY		TYPICAL SECTIONS		SHEET NUMBER		8		OF 24	
PROJ. MANAGER	JERRY DOSTIE	DESIGN DETAILED	L. Seo	CHECKED/REVIEWED	S. Davis	DESIGN DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3	
BY	J. Blanchard	DATE	8/2025	SIGNATURE		P.E. NUMBER		DATE					

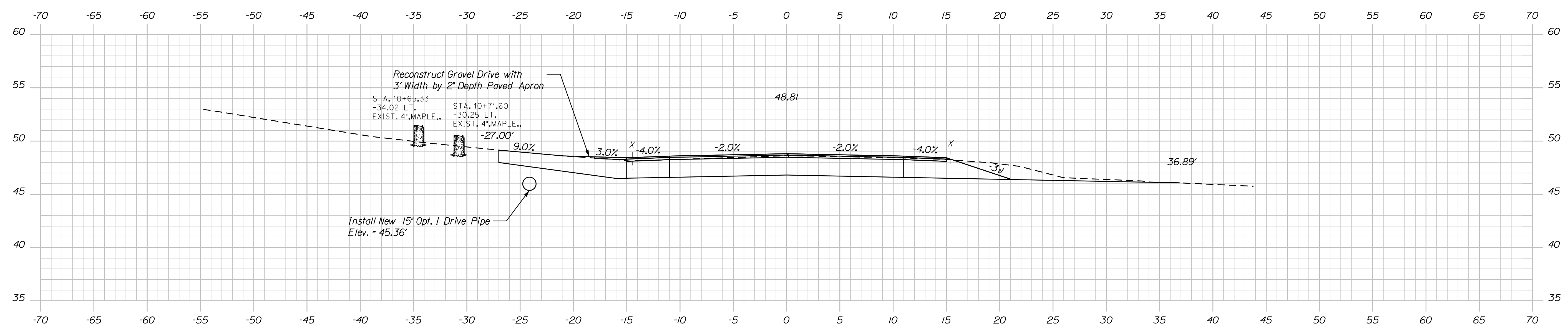


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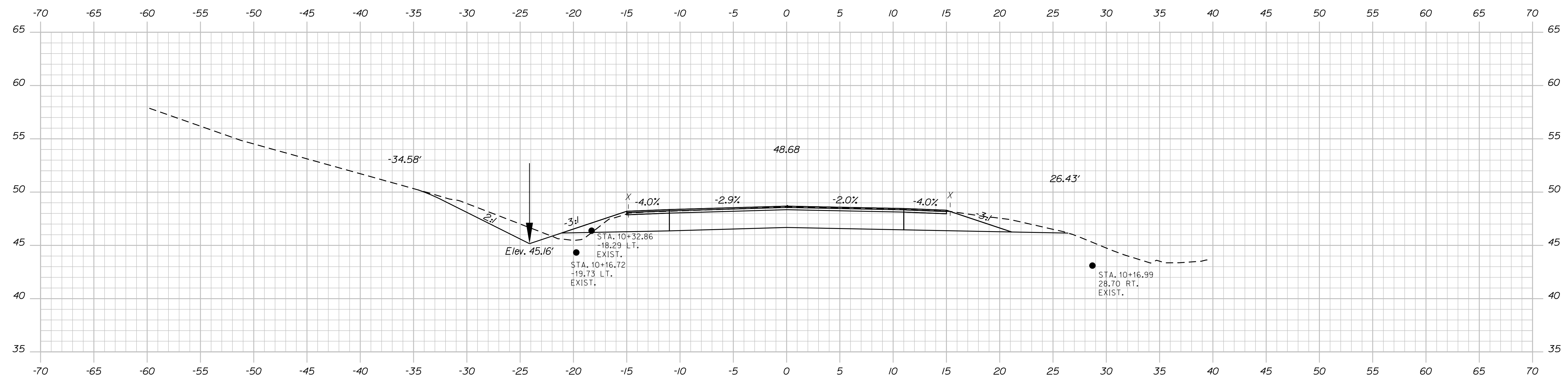
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Division: HIGHWAY

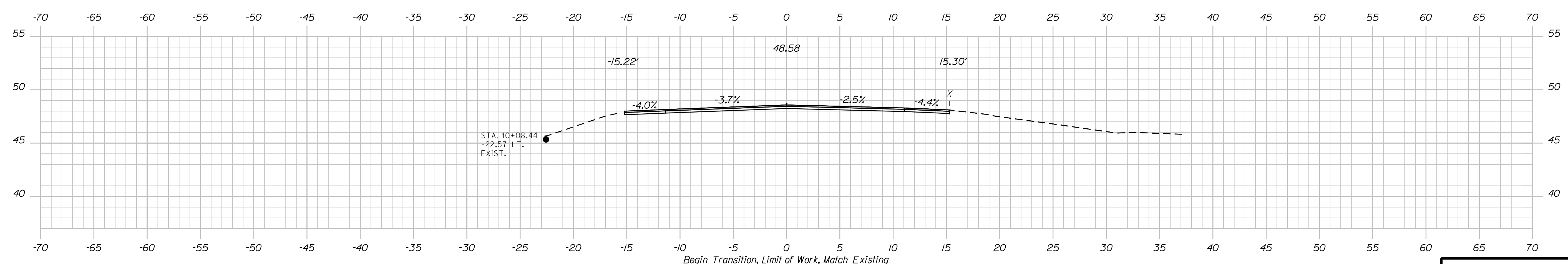
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10+50.00



10+25.00



10+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #2618000
WIN
26180.00
BRIDGE #6932
BRIDGE PLANS

DESIGN	CHECKED	DESIGNED	REVISIONS	FIELD
DESIGNED	CHECKED	DESIGNED	REVISIONS 1	FIELD CHANGES
DESIGNED	CHECKED	DESIGNED	REVISIONS 2	
DESIGNED	CHECKED	DESIGNED	REVISIONS 3	
DESIGNED	CHECKED	DESIGNED	REVISIONS 4	

DATE	BY	PROJ. MGR.	JERRY DORTCH	DATE	SIGNATURE	P.E. NUMBER	DATE
8/2025	J. Blanchard	J. Soo					
8/2025	D. Myers	S. Davis					

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
9
OF 24



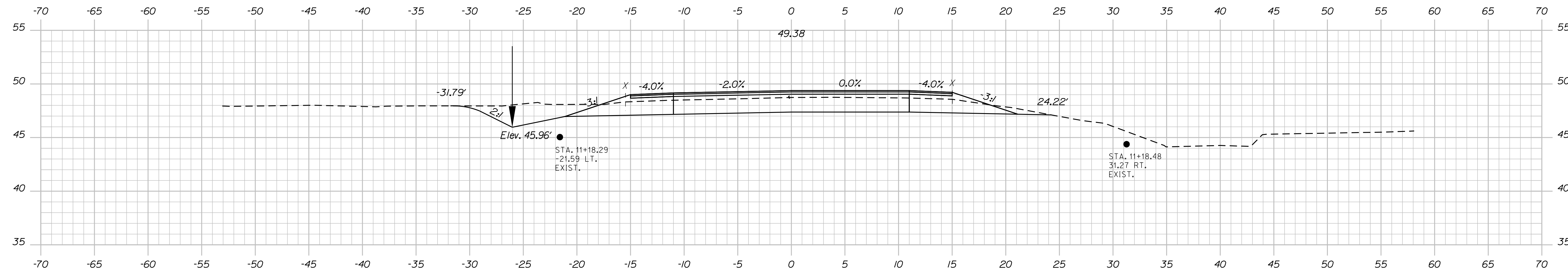
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Date: 12/23/2025

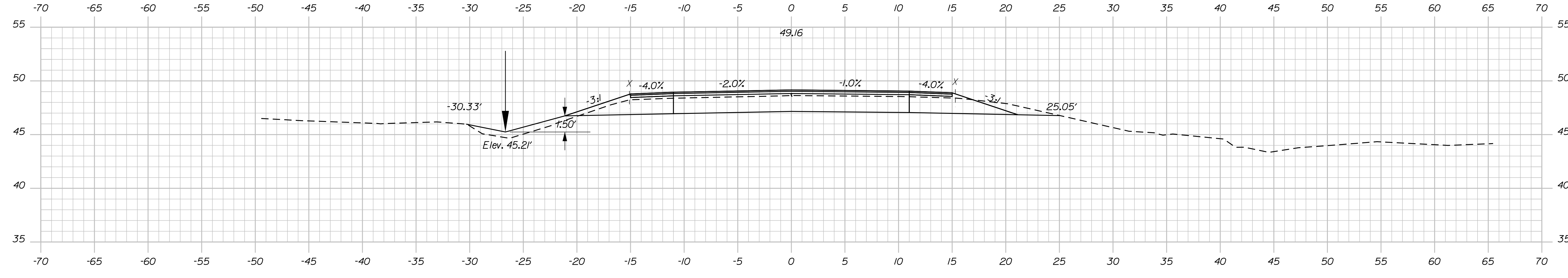
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Division: HIGHWAY

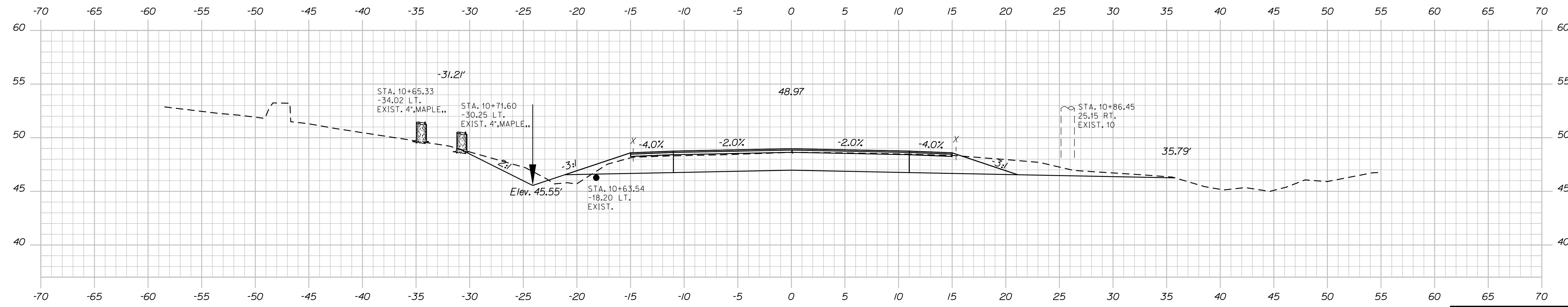
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11+25.00



11+00.00



10+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #2618000
WIN
26180.00
BRIDGE #6932
BRIDGE PLANS

DATE	SIGNATURE
8/2025	
BY	P.E. NUMBER
J. Blanchard	
D. Myers	
DATE	

PROJ. MANAGER	JERRY DOSTIE
DESIGN DETAILED	L. Soo
CHECKED/REVIEWED	S. Davis
DESIGN DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
10
OF 24

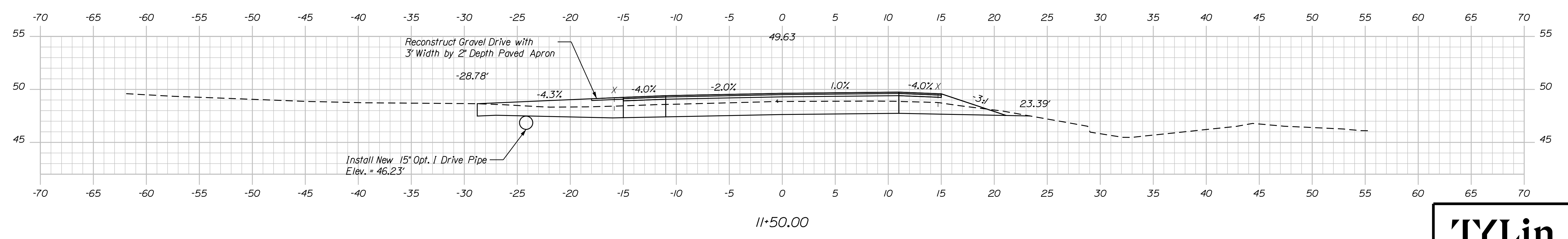
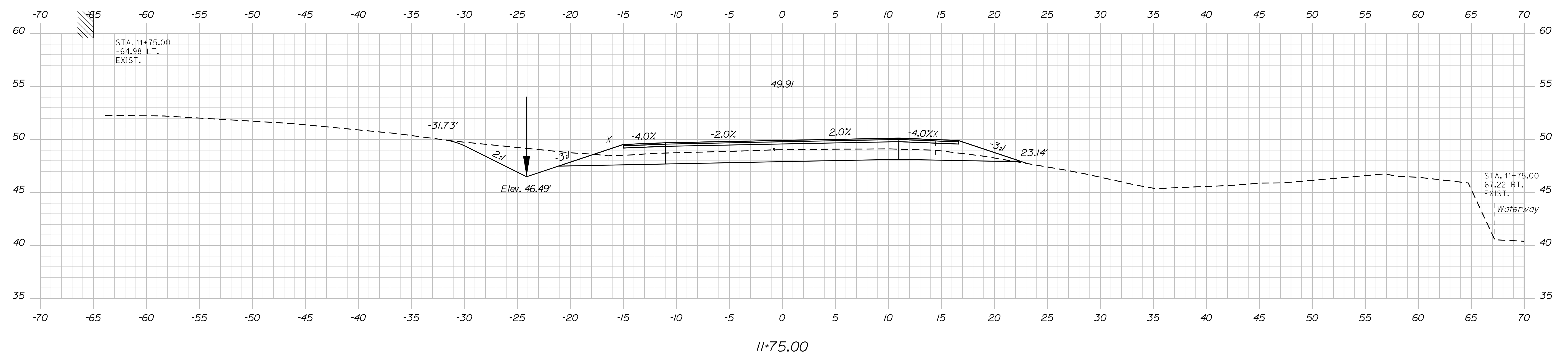
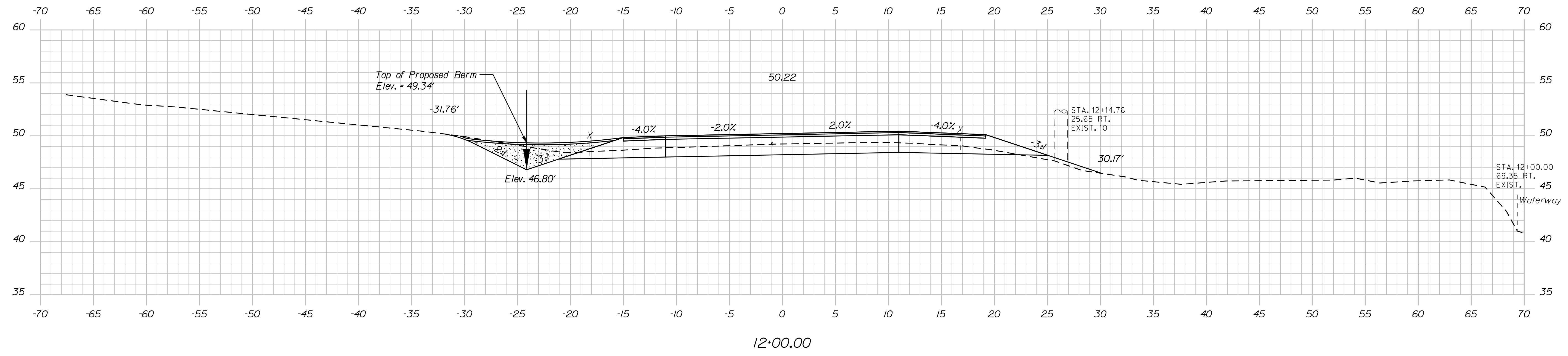


Sta. 10+75.00 to Sta. 11+25.00

Date: 12/23/2025

Username:

Filename: ... \HIGHWAY\MSTA\009_XSections.dgn Division: HIGHWAY



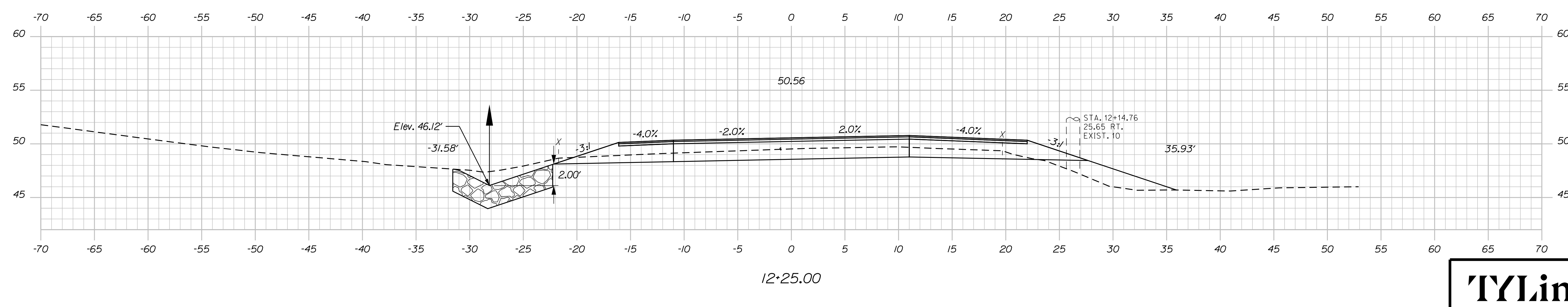
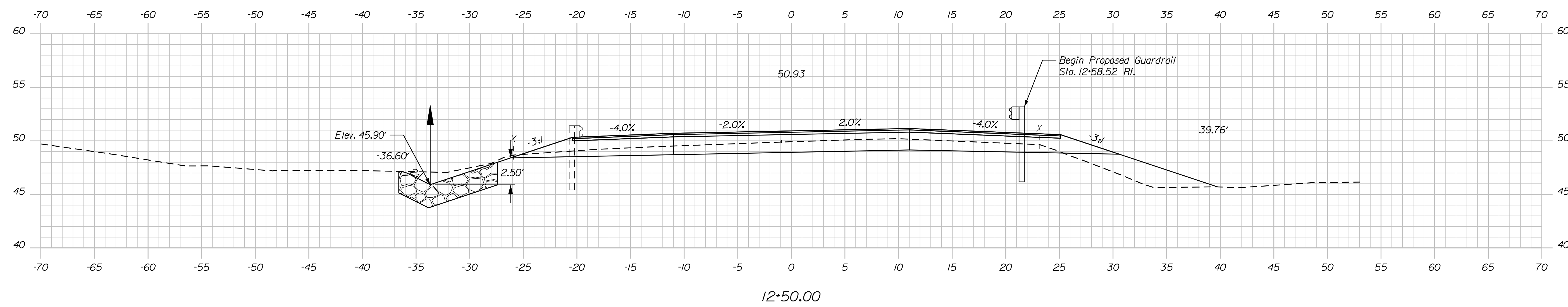
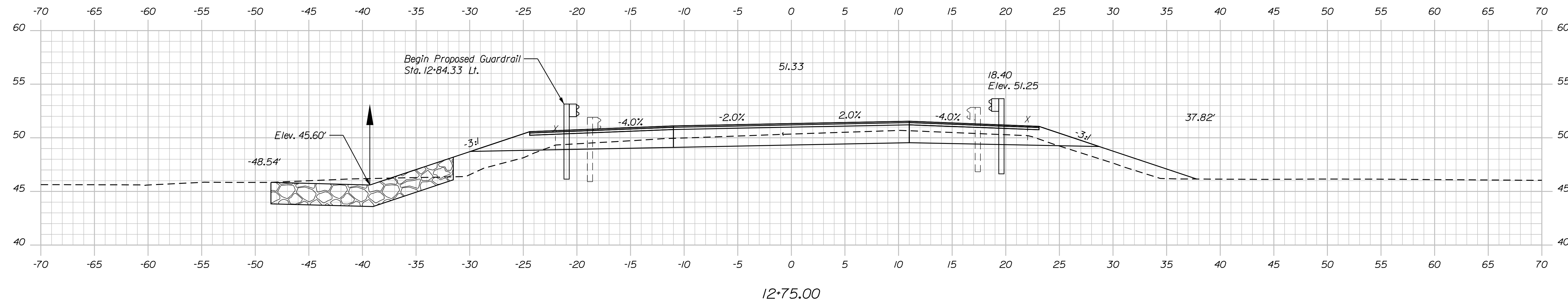
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		Fed. #2618000		WIN 26180.00		BRIDGE #6932		BRIDGE PLANS	
NOYES BRIDGE OVER MILL BROOK CUMBERLAND COUNTY		CROSS SECTIONS		SHEET NUMBER 11 OF 24		DATE 8/2025		SIGNATURE J. Soo	
PROJ. MANAGER JERRY DOSTIE		CHECKED-REVIEWED S. Davis		DESIGN-DETAILED S. Davis		DESIGN-DETAILED S. Davis		REVISIONS 1	
BY J. Blanchard		D. Myers		P.E. NUMBER		DATE		FIELD CHANGES	

Date: 12/23/2025

Username:

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\009_XSections.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #2618000
WIN
26180.00
BRIDGE #6932
BRIDGE PLANS

DATE	SIGNATURE
8/2025	
BY	P.E. NUMBER
J. Blanchard	
D. Myers	
DATE	

PROJ. MANAGER	JERRY DOBIE
DESIGN DETAILED	L. Soo
CHECKED/REVIEWED	S. Davis
DESIGN DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
12
OF 24



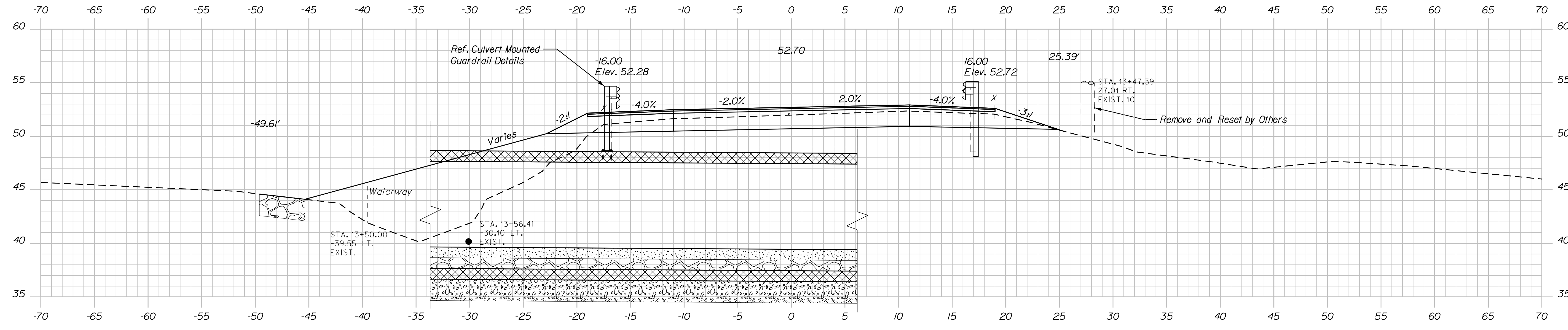
Sta. 12+25.00 to Sta. 12+75.00

Date: 12/23/2025

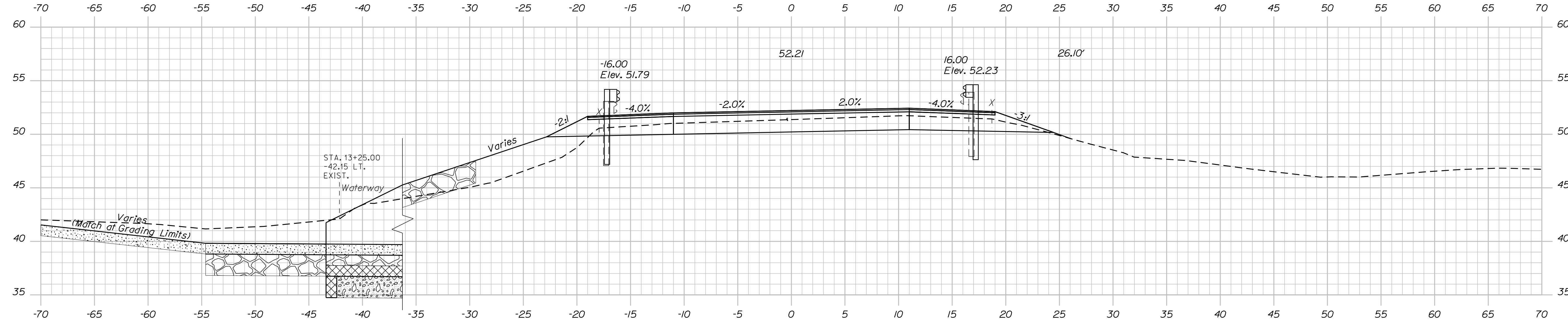
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Division: HIGHWAY

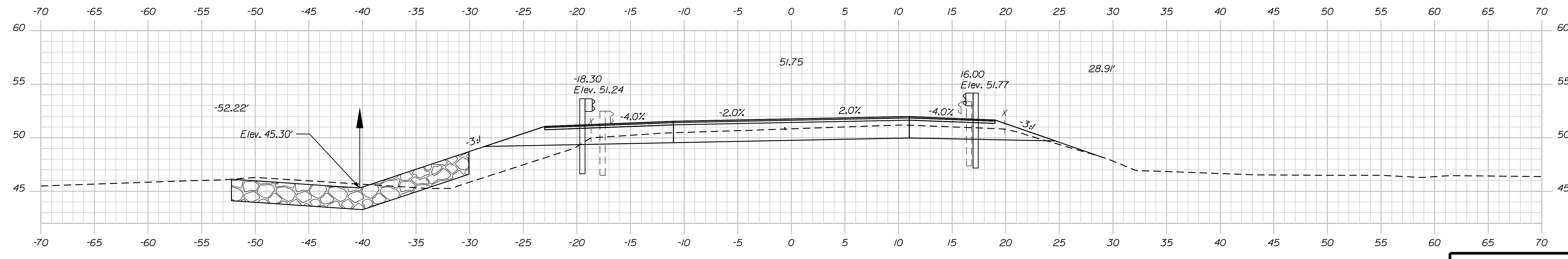
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13+50.00



13+25.00



13+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #2618000
WIN
26180.00
BRIDGE #6932
BRIDGE PLANS

DESIGN DETAILED	DATE	SIGNATURE
CHECKED/REVIEWED	8/2025	
DESIGNS DETAILED	8/2025	
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	JERRY DOSTIE
BY	J. Blanchard D. Myers
DATE	8/2025

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
13
OF 24



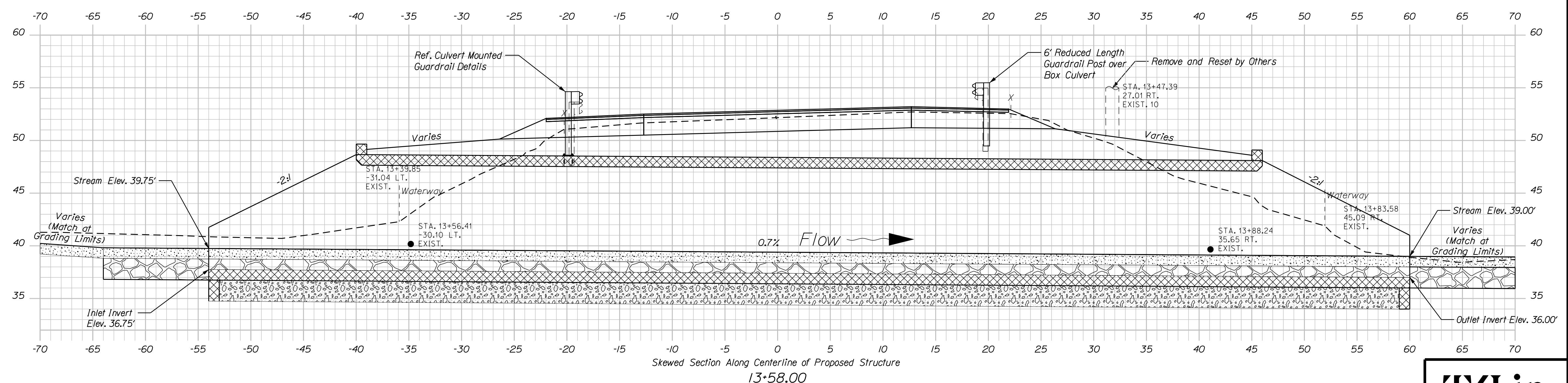
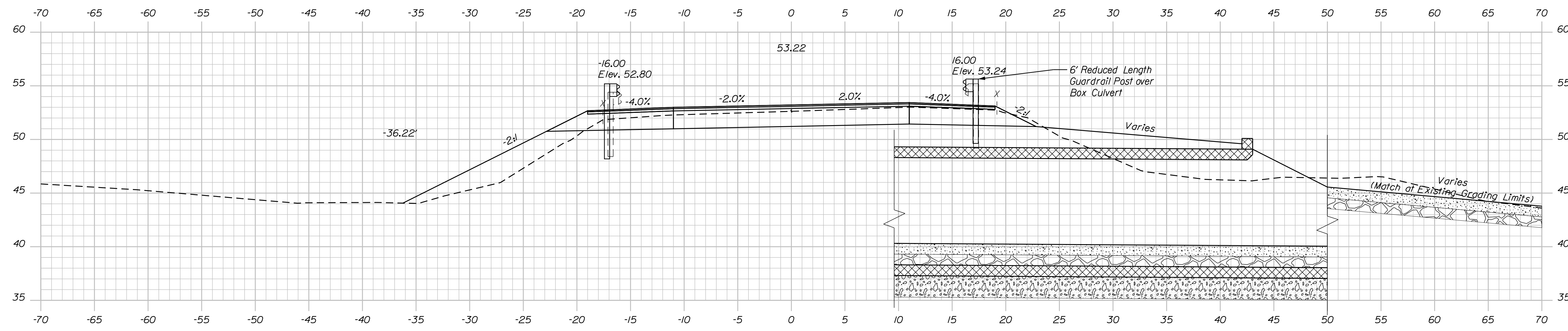
Sta. 13+00.00 to Sta. 13+50.00

Date: 12/23/2025

Username:

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\009_XSections.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #2618000
WIN
26180.00
BRIDGE #6932
BRIDGE PLANS

PROJ. MANAGER: JERRY DOSTIE
DESIGN-DETAILED: J. Soo
CHECKED-REVIEWED: S. Davis
DESIGN-DETAILED: S. Davis
REVISIONS: 1
REVISIONS: 2
REVISIONS: 3
REVISIONS: 4
FIELD CHANGES

DATE	BY	SIGNATURE	P.E. NUMBER	DATE
8/2025	J. Blanchard			
8/2025	D. Myers			

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
14
OF 24



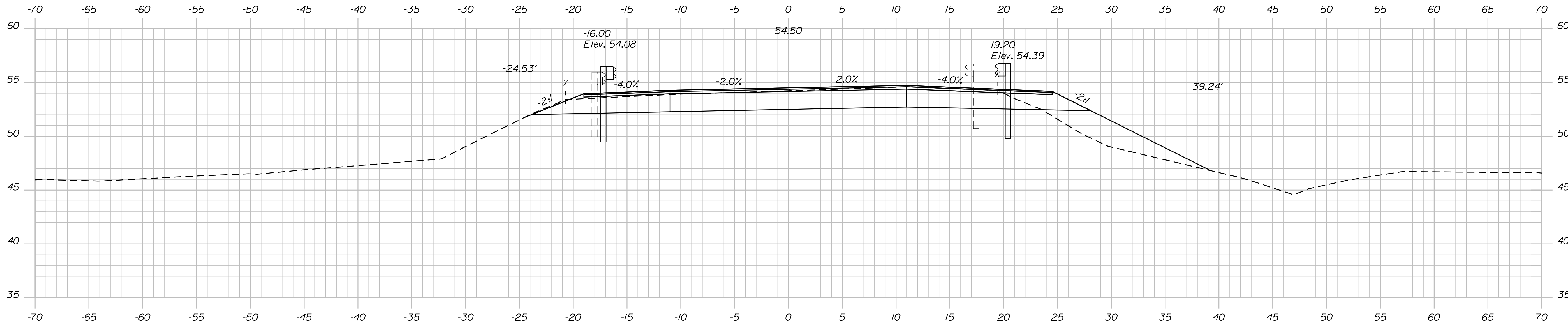
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Date: 12/23/2025

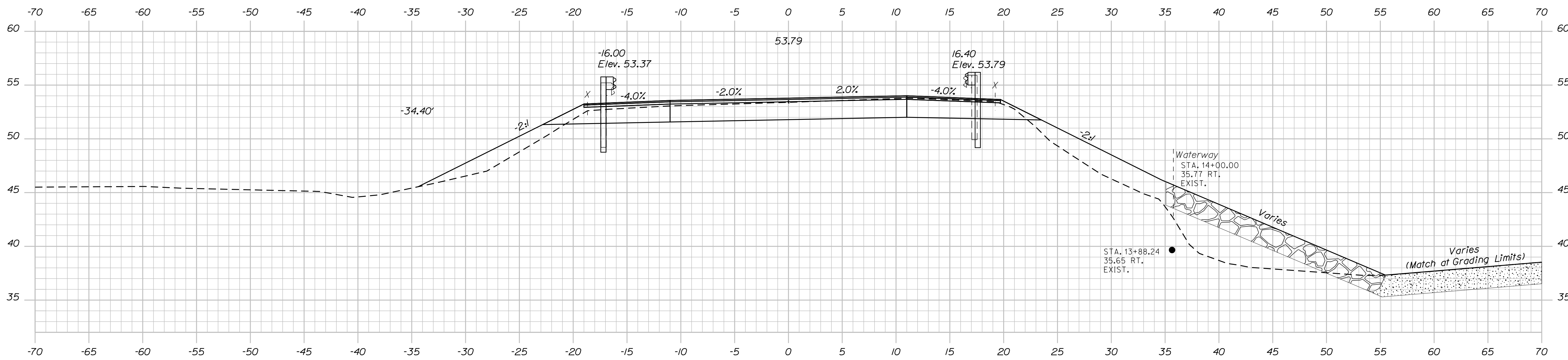
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Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\009_XSections.dgn



14+25.00



14+00.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #2618000
WIN
26180.00
BRIDGE #6932
BRIDGE PLANS

DATE: 8/2025
BY: J. Blanchard, D. Myers
SIGNATURE: _____
P.E. NUMBER: _____
DATE: _____

PROJ. MANAGER	JERRY DOOTIE
DESIGN/DETAILED	L. Soo
CHECKED/REVIEWED	S. Davis
DESIGN/DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER

15

OF 24

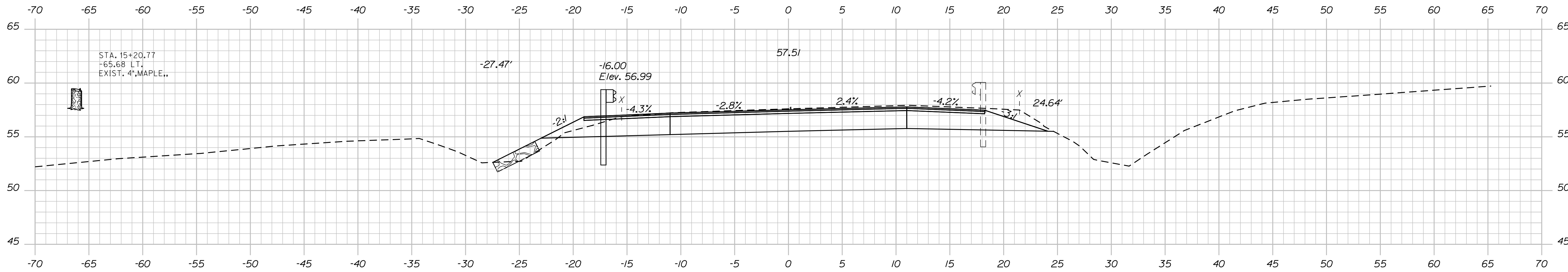
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Date: 12/23/2025

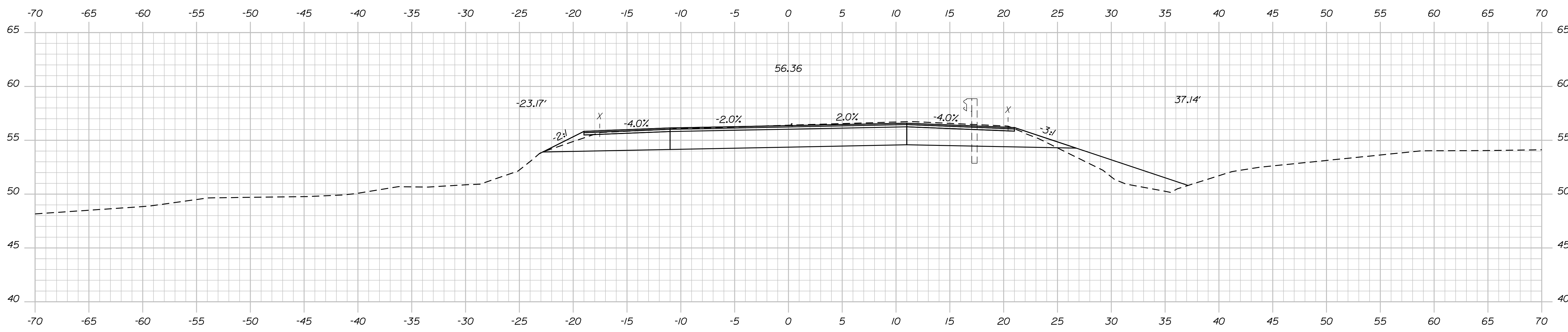
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Division: HIGHWAY

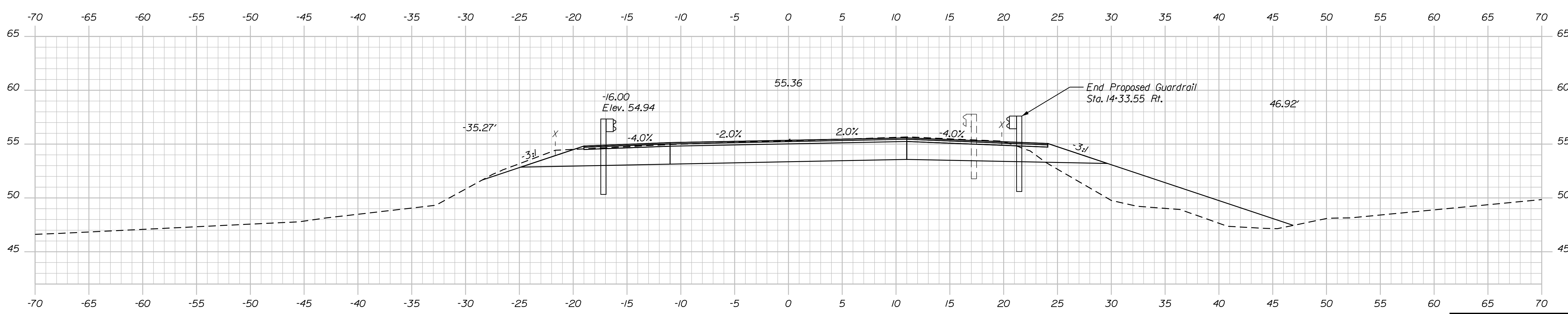
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15+00.00



14+75.00



14+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #2618000
WIN
26180.00
BRIDGE #6932
BRIDGE PLANS

DESIGN/DATE	BY	DATE	SIGNATURE
CHECKED/REVIEWED	J. Blanchard	8/2025	
DESIGNED/DATE	D. Myers	8/2025	
DESIGNED/DATE			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER	JERRY DOBIE
DESIGN/DATE	
CHECKED/REVIEWED	
DESIGNED/DATE	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER

16

OF 24

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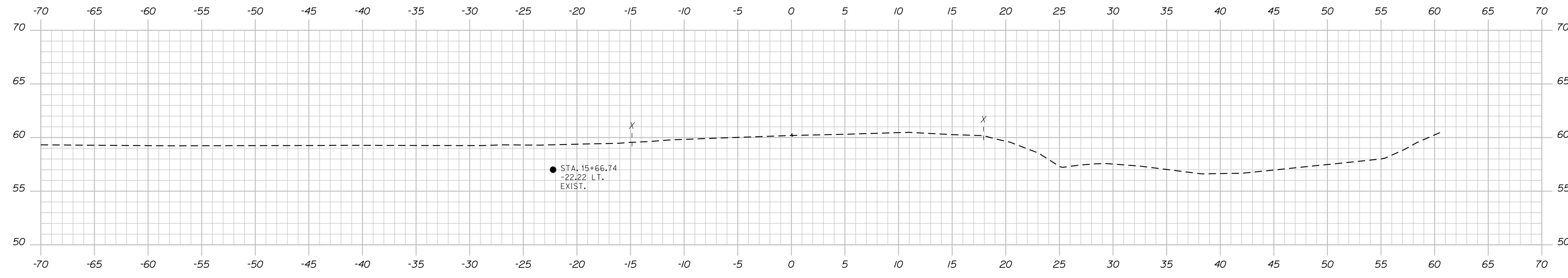
Sta. 14+50.00 to Sta. 15+00.00

Date: 12/23/2025

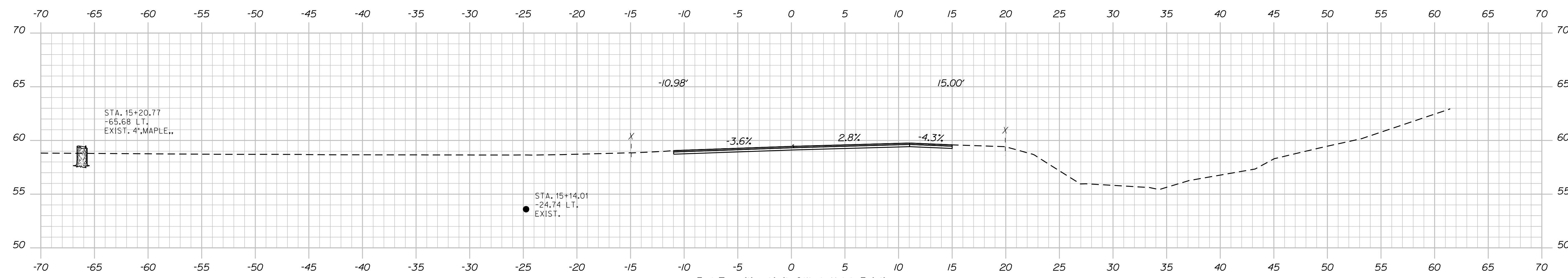
Username:

Division: HIGHWAY

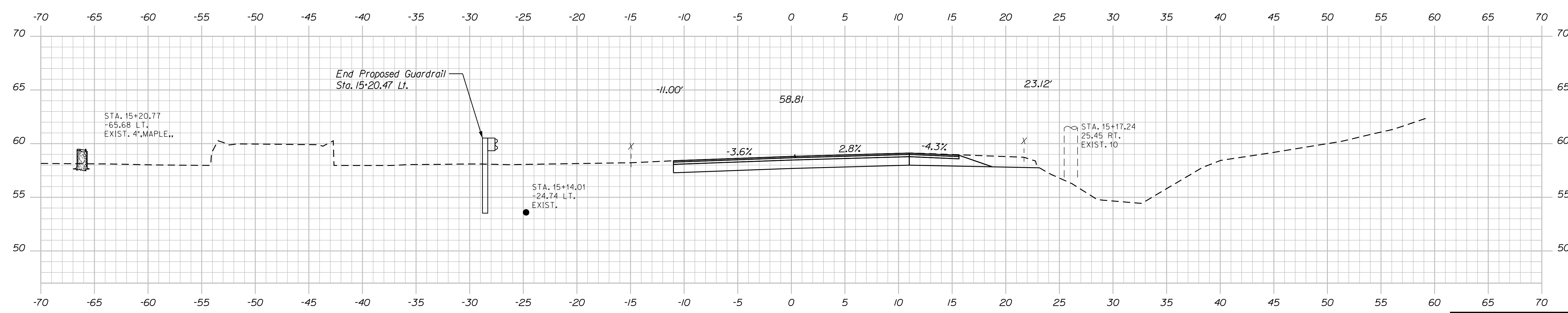
Filename: ... \HIGHWAY\MSTA\009_XSections.dgn



15+50.00



End Transition, Limit of Work, Match Existing
15+36.57



15+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Fed. #2618000
BRIDGE #6932
WIN
26180.00
BRIDGE PLANS

DATE	8/2025	SIGNATURE	
BY	J. Blanchard D. Myers	P.E. NUMBER	
PROJ. MANAGER	JERRY DORTIE	DATE	

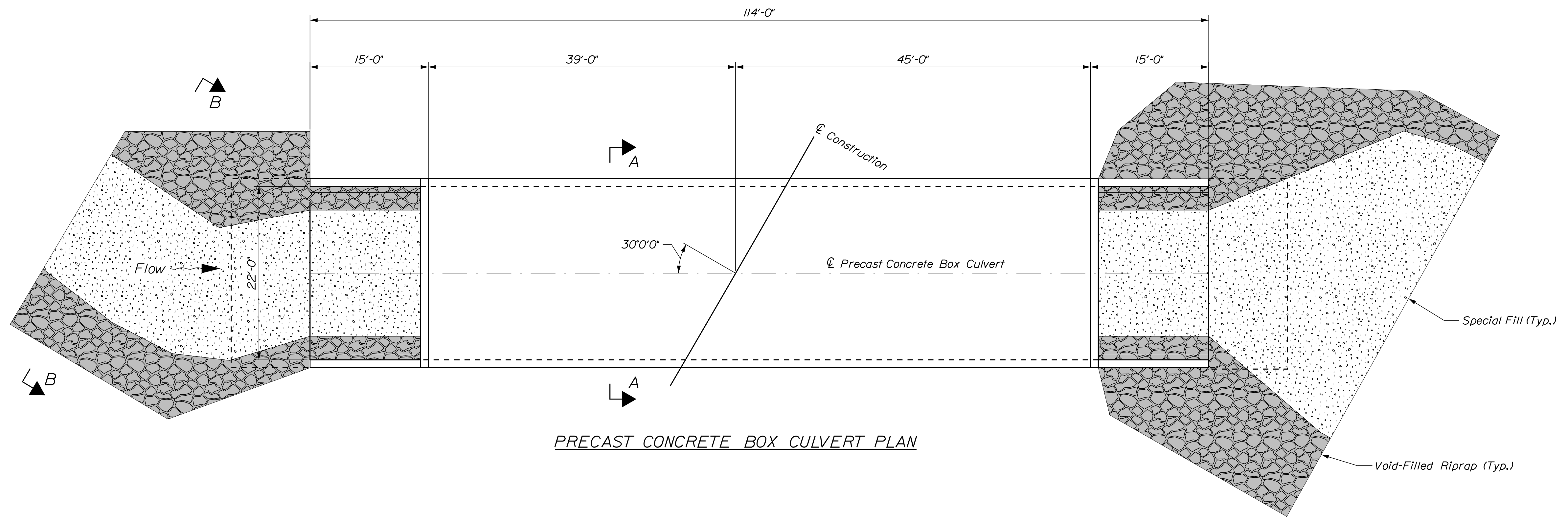
DESIGN/DETAILED	L. Soo	REVISIONS 1	
CHECKED/REVIEWED	S. Davis	REVISIONS 2	
DESIGN/DETAILED		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CROSS SECTIONS

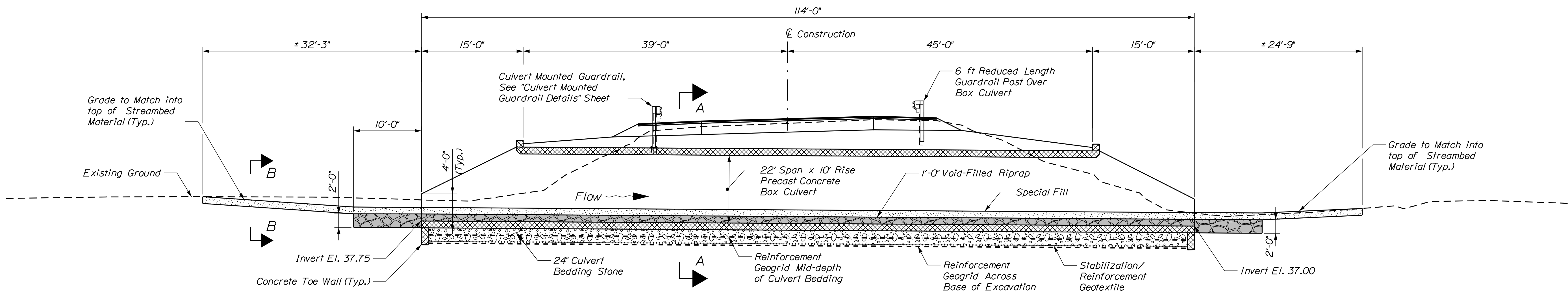
SHEET NUMBER
17
OF 24



Sta. 15+25.00 to Sta. 15+50.00



PRECAST CONCRETE BOX CULVERT PLAN



TYPICAL LONGITUDINAL SECTION ALONG PROPOSED STREAM Q

DESIGNED	DATE	SIGNATURE
CHECKED	8/2025	
DESIGNED	8/2025	
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	JERRY DOSTIE
DESIGNED	K. Nash
CHECKED	S. Maroon
DESIGNED	D. Myers
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CULVERT DETAILS 1 OF 2

SHEET NUMBER

18

OF 24

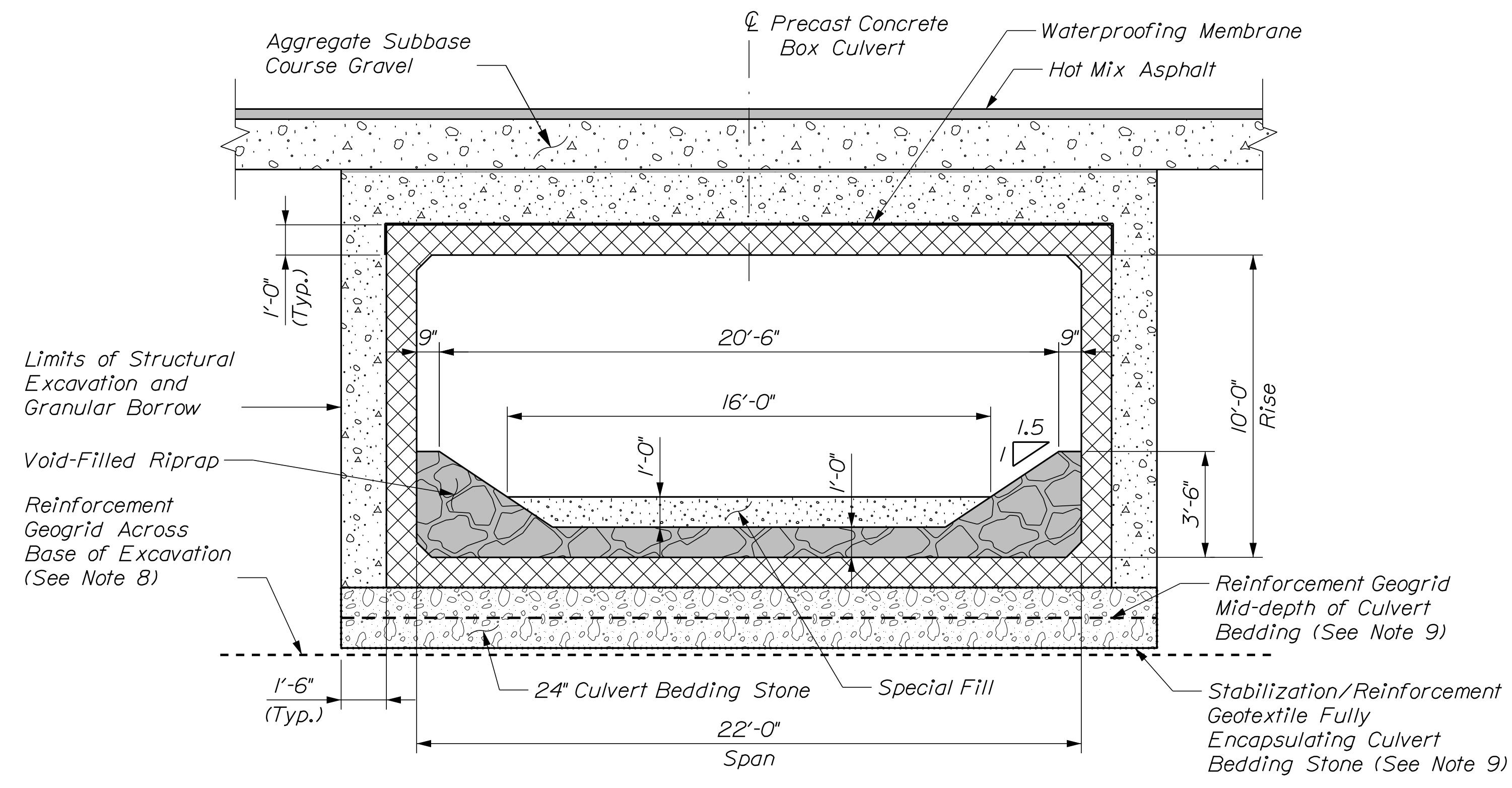


Date: 12/23/2025

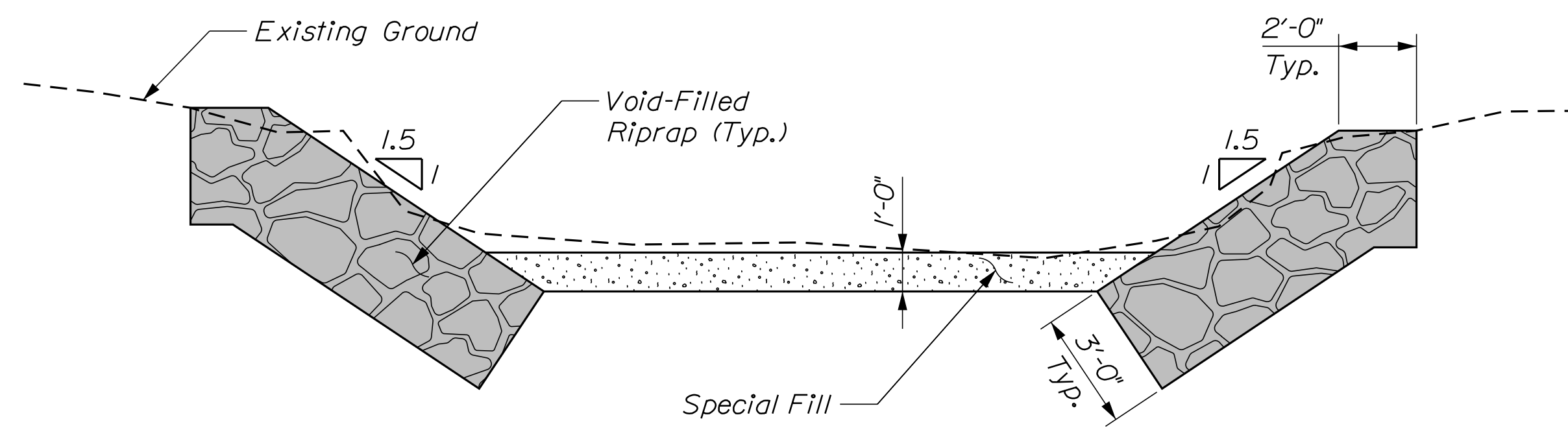
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Division: HIGHWAY

Filename: ... \MSTA\019_Culvert_Det_02.dgn

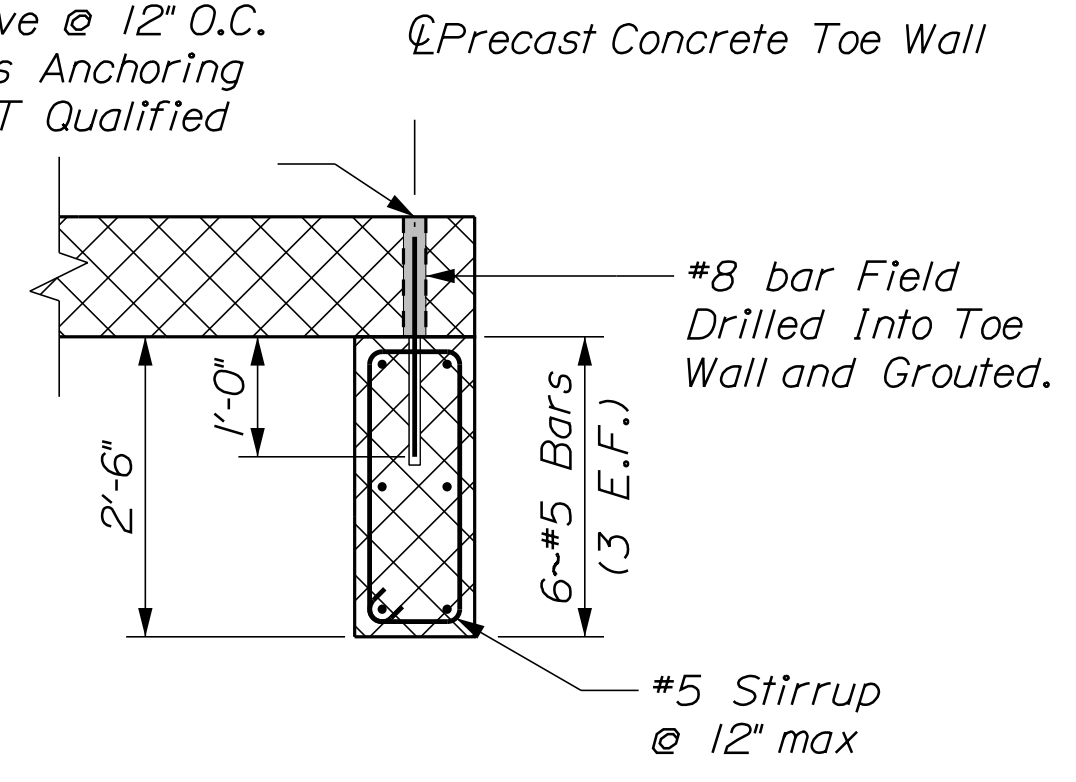


SECTION A-A PRECAST CONCRETE BOX CULVERT

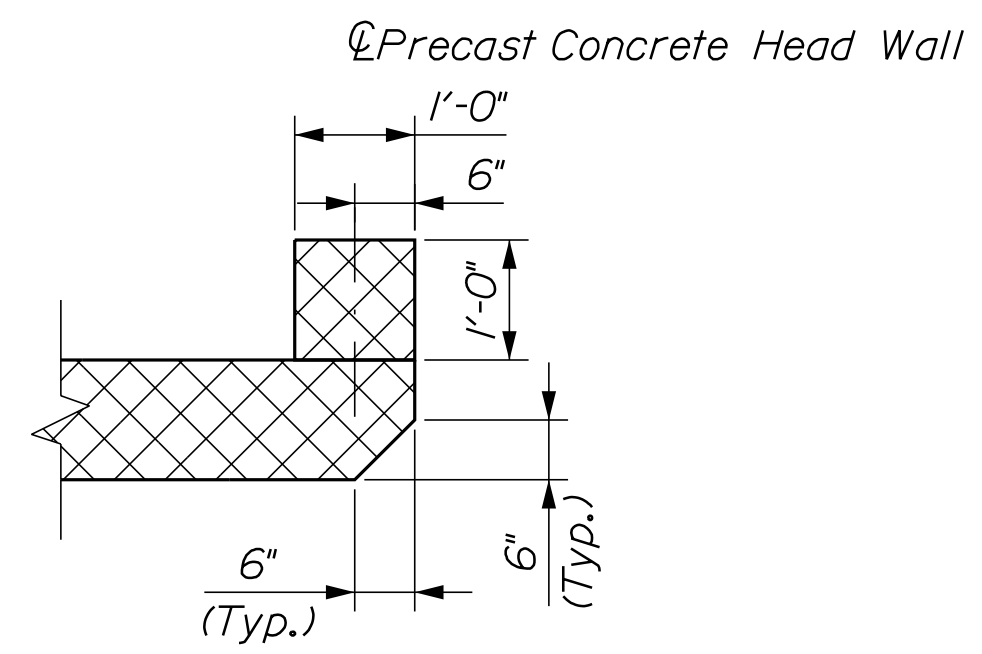


SECTION B-B STREAMBED
(Upstream shown, Downstream similar)

2 1/2" PVC Sleeve @ 12" O.C.
w/ Cementitious Anchoring
from MaineDOT Qualified
Products List



PRECAST CONCRETE TOE WALL DETAIL



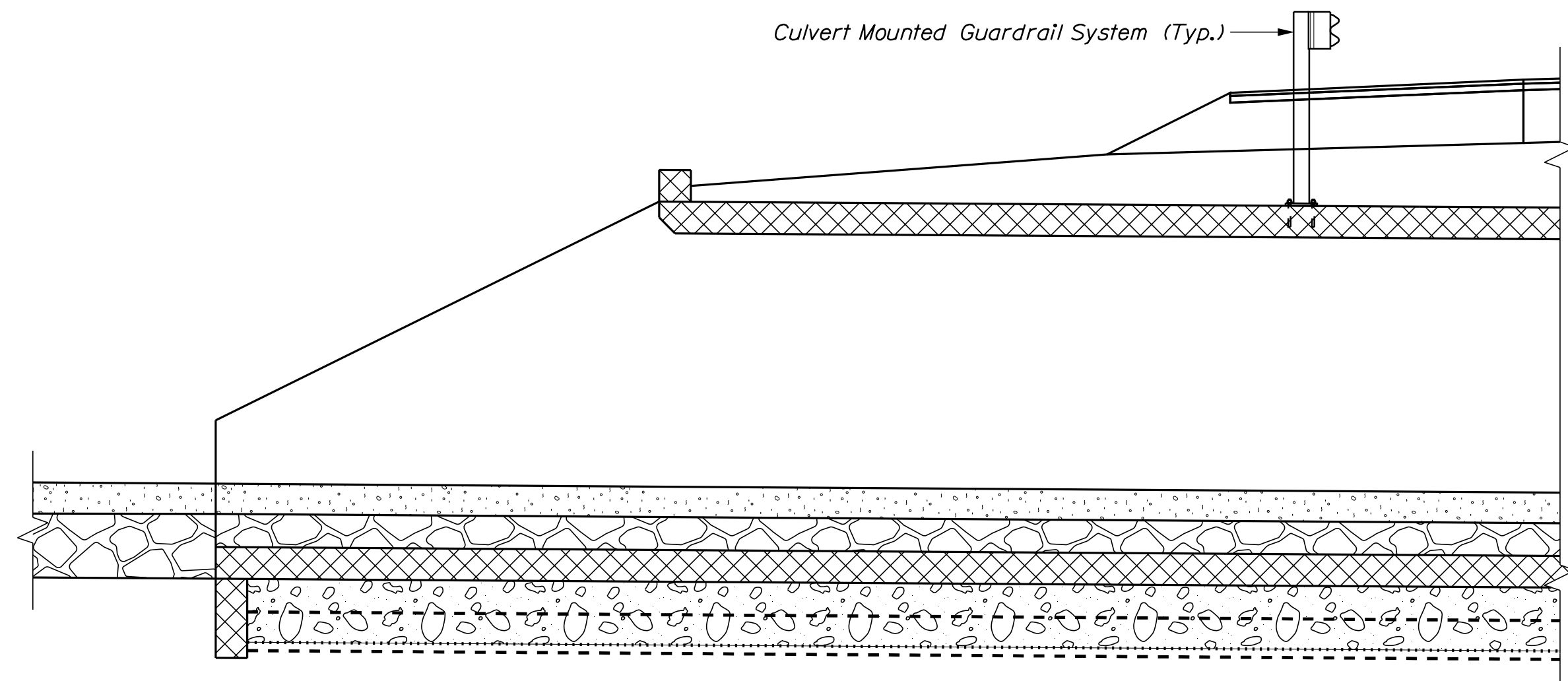
PRECAST CONCRETE HEADWALL DETAIL

PRECAST CONCRETE BOX NOTES

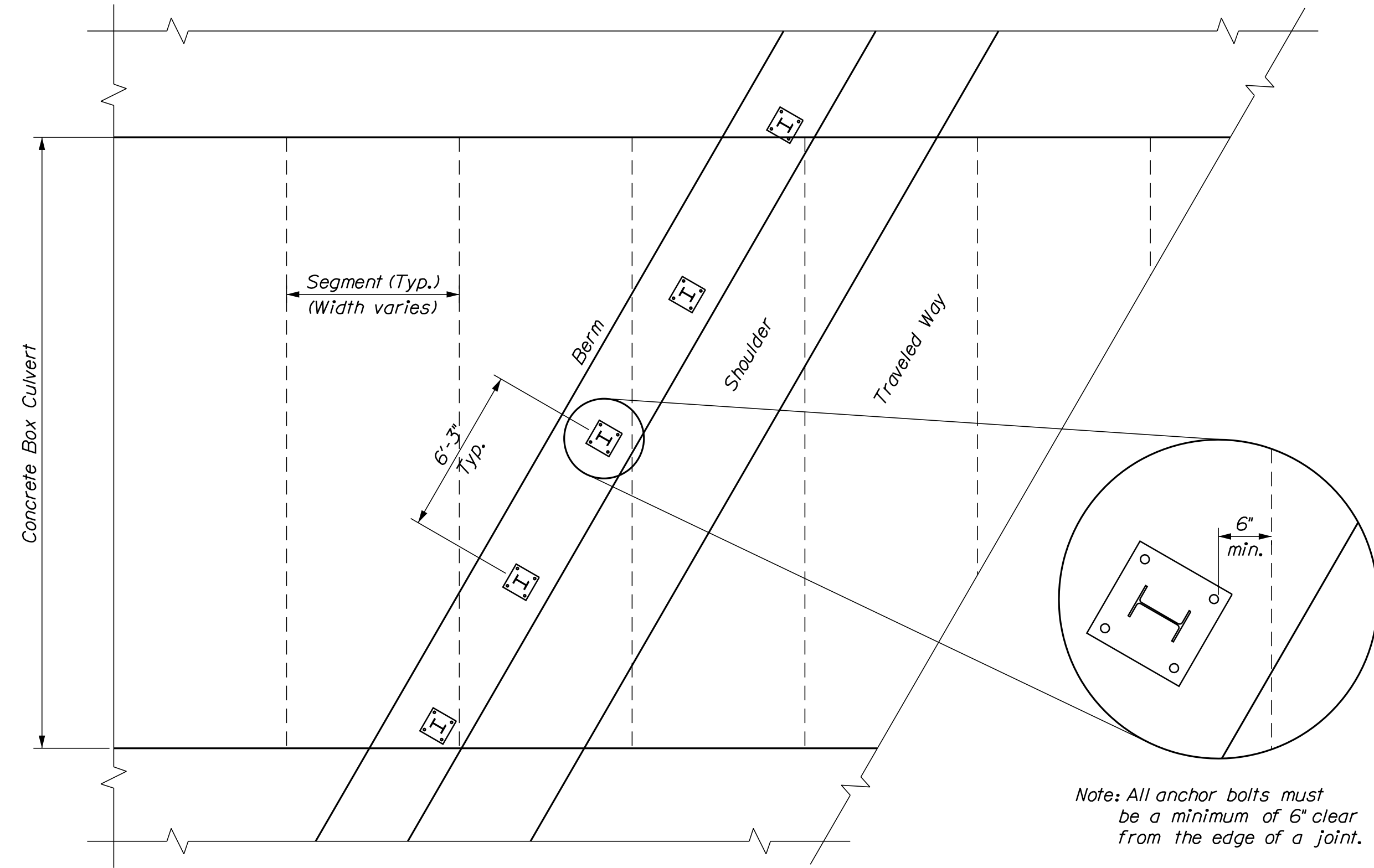
- The precast units shall be designed to carry construction loadings with a minimum fill cover of 18 inches over the top of the units.
- In accordance with Standard Specification Subsection 534.04, Precast Structural Concrete, The Contractor shall submit design calculations for the precast structure to the Department for review. The calculations shall demonstrate that the factored bearing pressures at the Strength Limit and Service Limit States do not exceed the factored geotechnical bearing resistances provided in the project geotechnical design report.
- The bearing surface for the Box Culvert bearing pad, below the geotextile-wrapped crushed stone, is anticipated to be below groundwater and consist of saturated, loose, silty sand. It is in close proximity to the top of a sensitive, soft marine silt-clay deposit. The full nature of the bearing surface will not be evident until the culvert excavation is made. Rubble fill is anticipated on the northerly side of the existing culvert. More information is provided in the project geotechnical design report.
- A temporary earth support system will be necessary to maintain a stable excavation. Sloping the sides of the excavation should not be considered feasible. Should the contractor propose sloping the sideslopes (open cutting), it shall be at the contractor's risk. Regardless of the method of excavation, all excavations and earth support systems shall meet all applicable OSHA regulations.
- The contractor's earth support system (cofferdam) design shall include provisions for continuous dewatering, shall have adequate embedment to protect against bottom heave, shall address installation of sheeting through the anticipated rubble fill on the northerly side of the existing culvert, and shall address phasing the shut down of the dewatering system to avoid a condition under which the culvert floats. Payment for design, installation, and removal of the temporary earth support system shall be incidental to the cofferdam pay item.
- The Contractor shall maintain the excavation so that the box culvert and culvert bedding layer are installed in-the-dry. Groundwater shall be controlled by pumping from sumps or other dewatering systems selected by the Contractor.
- The native soil subgrade shall be excavated using a smooth-edged bucket and proper grade control to avoid disturbance of the subgrade and underlying deposits. The contractor shall not operate heavy equipment over the excavated subgrade to minimize subgrade disturbance and limit vibration-induced disturbance to the saturated subgrade. If the subgrade becomes disturbed, weakened, or excavated below the design bearing surface, the Contractor shall not excavate further below the design bearing surface, but shall place the geogrid across the base of the excavation, and commence installation of the bearing pad adding additional bedding stone (beyond the design 2-foot depth) to make up for the overexcavation at no additional cost to the owner.
- Geogrid shall be placed across the entire bottom of the excavation as shown on the plans prior to placement of the Stabilization/Reinforcement Geotextile-wrapped bedding stone bearing pad. The geogrid is intended to provide a working surface for the installation of the bearing pad. Payment for the geogrid across the base of the excavation shall be considered incidental to 511.07 Cofferdam pay item.
- The box culvert will bear on a 2-foot thick layer of crushed stone (Culvert Bedding Stone) that is wrapped in non-woven Stabilization/Reinforcement Geotextile fabric. A geogrid will be embedded at the midpoint of geotextile-wrapped, 2-foot thick crushed stone layer. Payment for the Stabilization/Reinforcement Geotextile fabric and embedded geogrid that is part of the bearing pad shall be part of the 620.58 Erosion Control Geotextile and 620.65 Reinforcement Geogrid pay items.
- The Stabilization/Reinforcement Geotextile shall be placed on the excavated subgrade surface prior to placement of the culvert bedding stone. Adjoining sections of the geotextile shall be overlapped by a minimum of 2 feet. The culvert bedding material shall be placed in maximum 6-inch-thick lifts. Vibratory or other dynamic compaction methods are strictly prohibited during placement of culvert bedding stone.
- Subsidence of the area immediately adjacent to the sheeting may occur when the sheets are removed.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		Fed. #2618000		BRIDGE #6932		WIN		26180.00		BRIDGE PLANS	
PROJ. MANAGER	JERRY DOSTIE	DESIGN-DETAILED	K. Nash	CHECKED-REVIEWED	D. Myers	DESIGN-DETAILED	D. Myers	REVISIONS 1		REVISIONS 2		REVISIONS 3	
DATE	8/2025	BY	S. Maroon	DATE	8/2025	SIGNATURE		P.E. NUMBER		DATE			
NOYES BRIDGE OVER MILL BROOK CUMBERLAND COUNTY CULVERT DETAILS 2 OF 2													
SHEET NUMBER													
19													
OF 24													

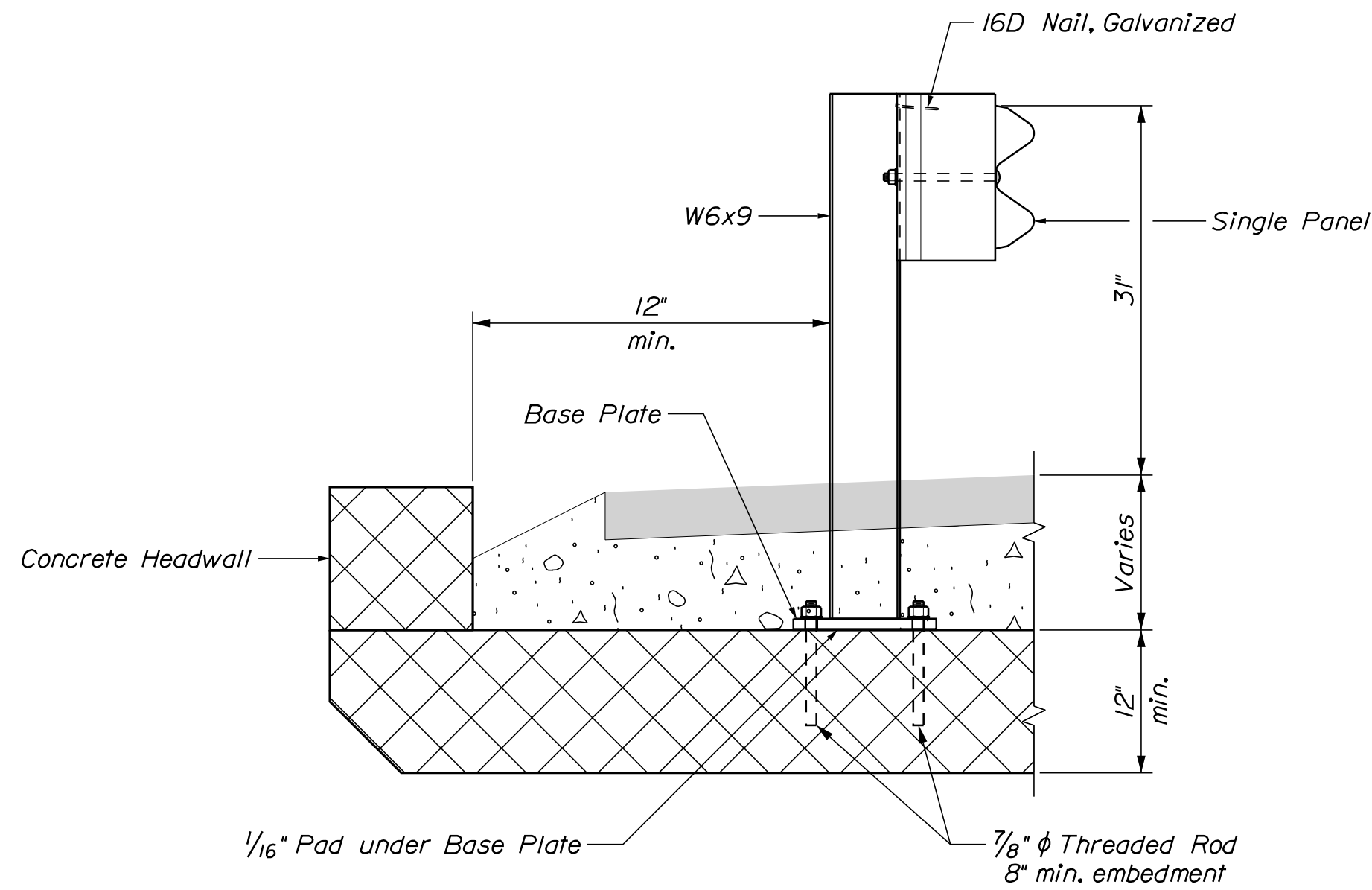




LONGITUDINAL END SECTION OF CONCRETE BOX



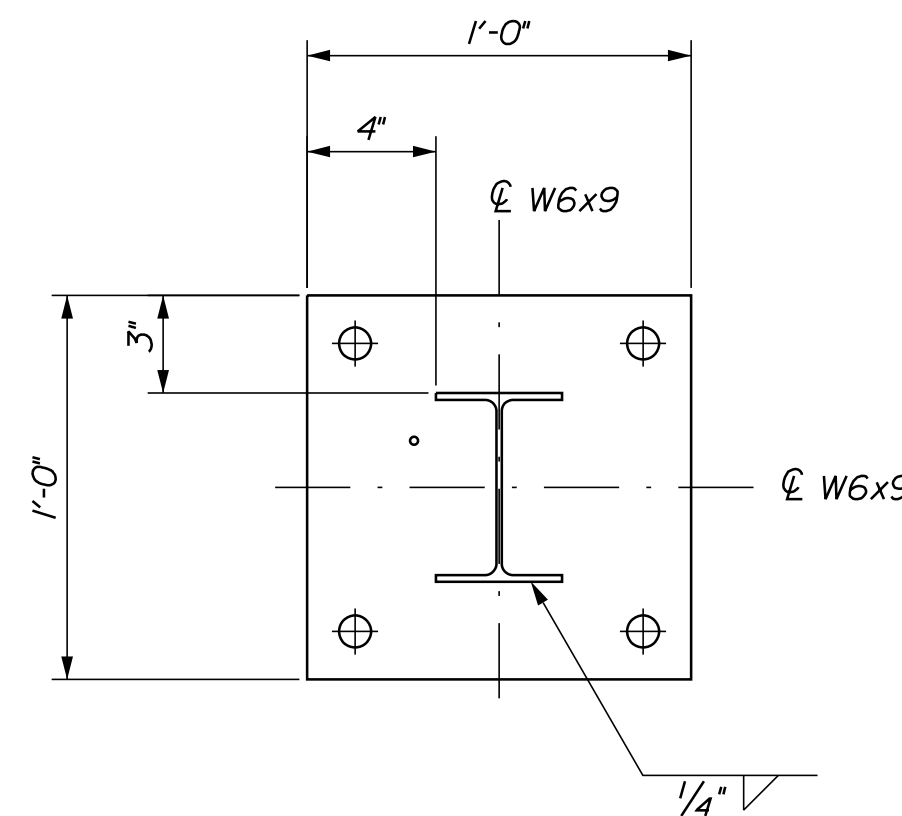
SKEWED BOX POST LAYOUT
Guardrail Offset Blocks and Rail not shown for clarity



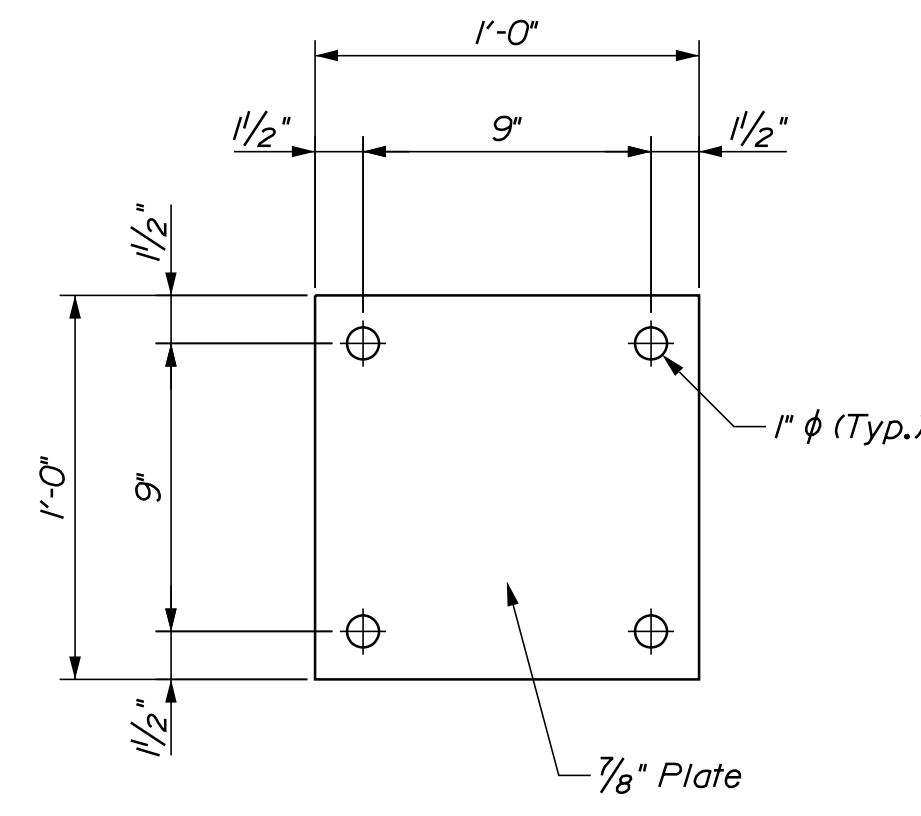
CULVERT MOUNTED GUARDRAIL SYSTEM

CULVERT MOUNTED GUARDRAIL NOTES

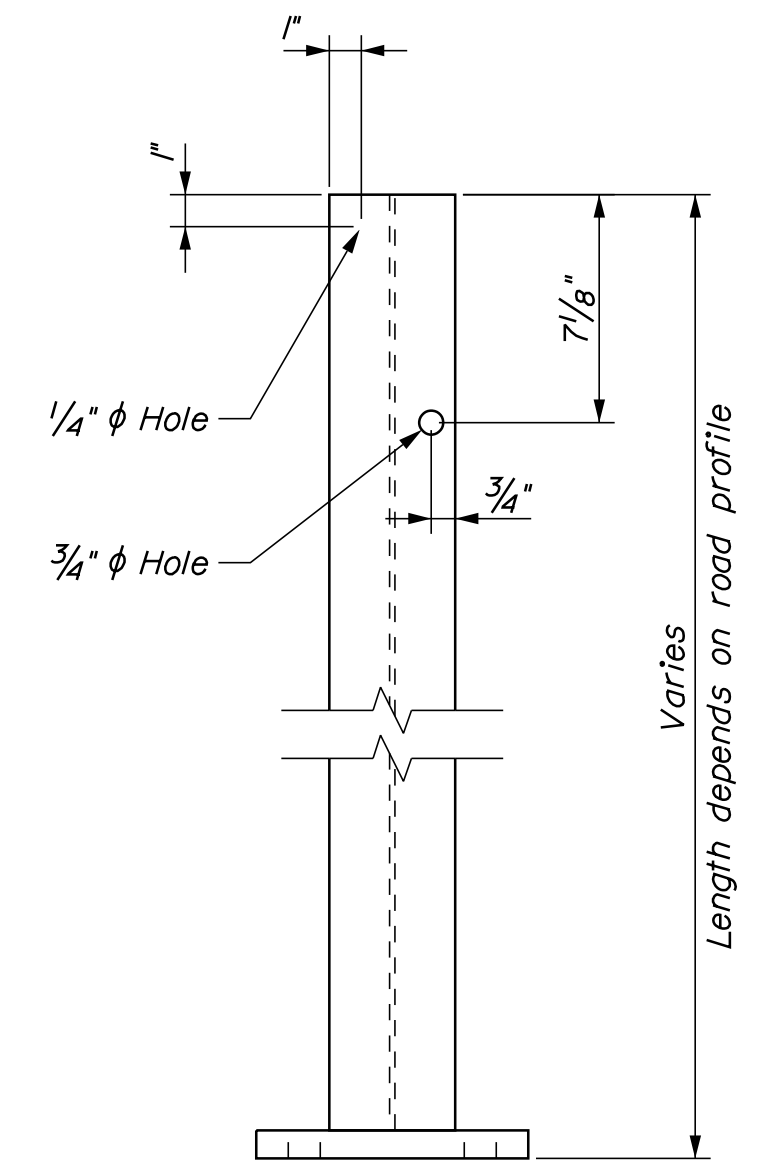
1. Threaded rod shall be ASTM F1554 Grade 55.
2. Epoxy anchoring materials shall have a minimum bond strength of 1300 psi.



POST ASSEMBLY



BASE PLATE



ELEVATION

PROJ. MANAGER	JERRY DOSTIE	DATE	10/2025
DESIGN-DETAILED	J. LePage	CHECKED-REVIEWED	D. Myers
DESIGN-DETAILED	D. Myers	DESIGN-DETAILED	D. Myers
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER	JERRY DOSTIE	DATE	10/2025
DESIGN-DETAILED	J. LePage	CHECKED-REVIEWED	D. Myers
DESIGN-DETAILED	D. Myers	DESIGN-DETAILED	D. Myers
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

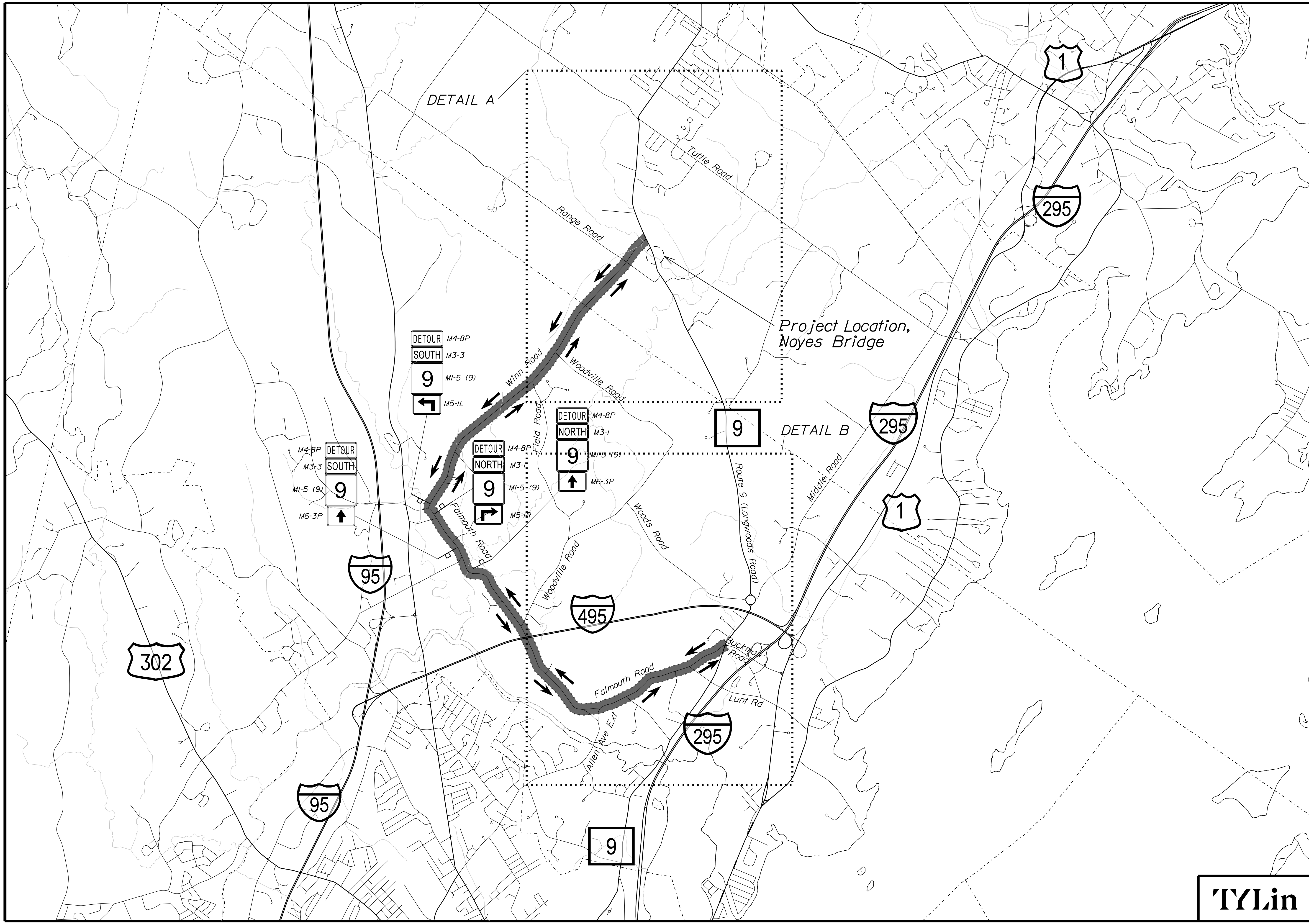
NOYES BRIDGE
OVER MILL BROOK
CUMBERLAND COUNTY
CUMBERLAND
CULVERT MOUNTED
GUARDRAIL DETAILS

SHEET NUMBER

20

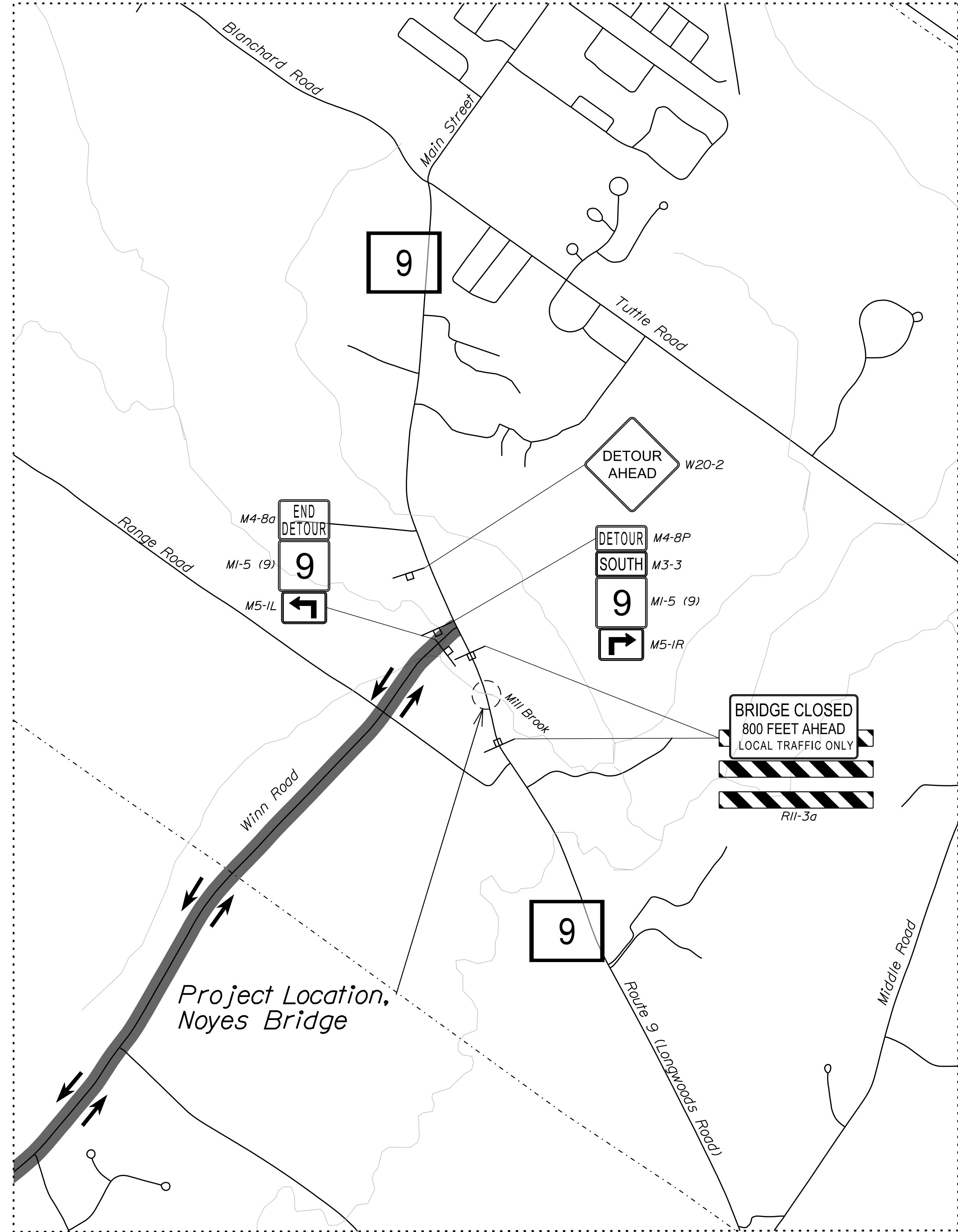
OF 24



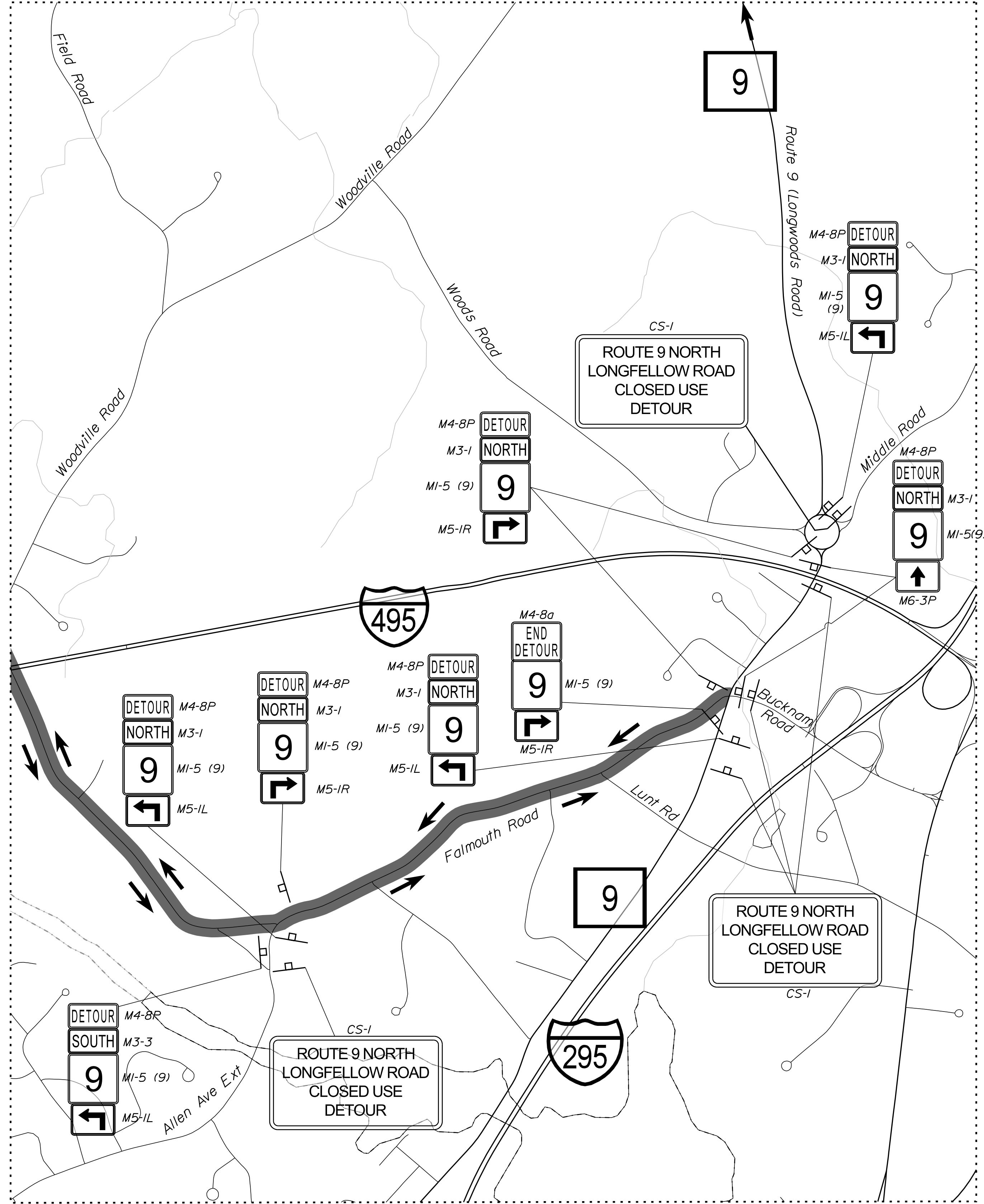


NOYES BRIDGE OVER MILL BROOK CUMBERLAND COUNTY		DETOUR PLAN 1 OF 2																																									
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		BRIDGE #6932 WIN 26180.00 BRIDGE PLANS																																									
Fed. #2618000		SHEET NUMBER 21 OF 24																																									
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REVISIONS 4																																											
FIELD CHANGES																																											
SIGNATURE	P.E. NUMBER	DATE																																									





DETAIL A
SOUTHBOUND



DETAIL B
NORTHBOUND



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		Fed. #2018000		BRIDGE #6932		WIN		26180.00		BRIDGE PLANS	
NOYES BRIDGE OVER MILL BROOK CUMBERLAND COUNTY		DETOUR PLAN 2 OF 2		SHEET NUMBER		22		OF 24			
PROJ. MANAGER	JERRY DOSTIE	DATE	8/2025	BY	N. Bourcier	DATE	8/2025	DESIGN DETAIL	L. Soo	SIGNATURE	
CHECKED/REVIEWED	L. Soo	DESIGN DETAIL	L. Soo	DESIGN DETAIL	L. Soo	REVISIONS 1		REVISIONS 2		P.E. NUMBER	
REVISIONS 3		REVISIONS 4		FIELD CHANGES		DATE					

DETOUR SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	60"	40"	ROUTE 9 NORTH LONGFELLOW ROAD CLOSED USE DETOUR	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 (TYP.)			5	WHITE	BLACK		16.67 (16.67)	
MI-5	24"	24"	9				16	WHITE	BLACK		4.00 (88)	
M3-1	24"	12"	NORTH				10	WHITE	BLACK		2.00 (22)	
M3-3	24"	12"	SOUTH				4	WHITE	BLACK		2.00 (22)	
M4-8A	24"	18"	END DETOUR				2	ORANGE	BLACK		3.00 (6)	
M4-8P	24"	12"	DETOUR				14	ORANGE	BLACK		2.00 (40)	
M5-1L	21"	15"	←				6	WHITE	BLACK		2.19 (8.76)	
M5-1R	21"	15"	→				6	WHITE	BLACK		2.19 (8.76)	
M6-3P	21"	15"	↑				4	WHITE	BLACK		2.19 (8.76)	
R11-3a	60"	30"	BRIDGE CLOSED 800 FEET AHEAD LOCAL TRAFFIC ONLY				2	WHITE	BLACK		12.50 (12.50)	
W20-2	36"	36"	DETOUR AHEAD				1	ORANGE	BLACK		9.00 (9.00)	

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
NOYES BRIDGE		CUMBERLAND COUNTY	
OVER MILL BROOK		DETOUR PLAN	
CUMBERLAND		SIGN SUMMARY SHEET	
PROJ. MANAGER	JERRY DOSTIE	DATE	2/23/25
DESIGN-DETAILED	J. Blanchard	CHECKED-REVIEWED	D. Myers
CHECKED-REVIEWED	D. Myers	DESIGN-DETAILED	D. Myers
DESIGN-DETAILED		DESIGN-DETAILED	
REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4	
FIELD CHANGES			
BRIDGE #6932		BRIDGE PLANS	
WIN		26180.00	
Fed. #2618000		SIGNATURE	
		P.E. NUMBER	
		DATE	
SHEET NUMBER			
23			
OF 24			



Town, County, State _____
 Approx. Property Lines _____
 Existing Right of Way _____
 Limits of Wrought Portion _____
 Control Of Access _____
 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 _____
 Tree Line _____
 Water Edge _____
 Ledge _____
 Fence _____
 Sign _____

Clearing Limit Line _____
 Bush Line _____
 Rock/Boulder _____
 Barb Wire _____
 Well _____

Sanitary Sewer _____
 Telephone Line _____
 Electric Line _____
 Water Line _____
 Underdrain Line _____
 Gas Line _____
 Guardrail _____
 Culvert _____

Proposed _____
 Traveled Way _____
 Ditch _____
 Catch Basin _____
 Manhole _____
 Sewer Manhole _____
 Utility Pole _____
 Fire Hydrant _____
 Curbing _____

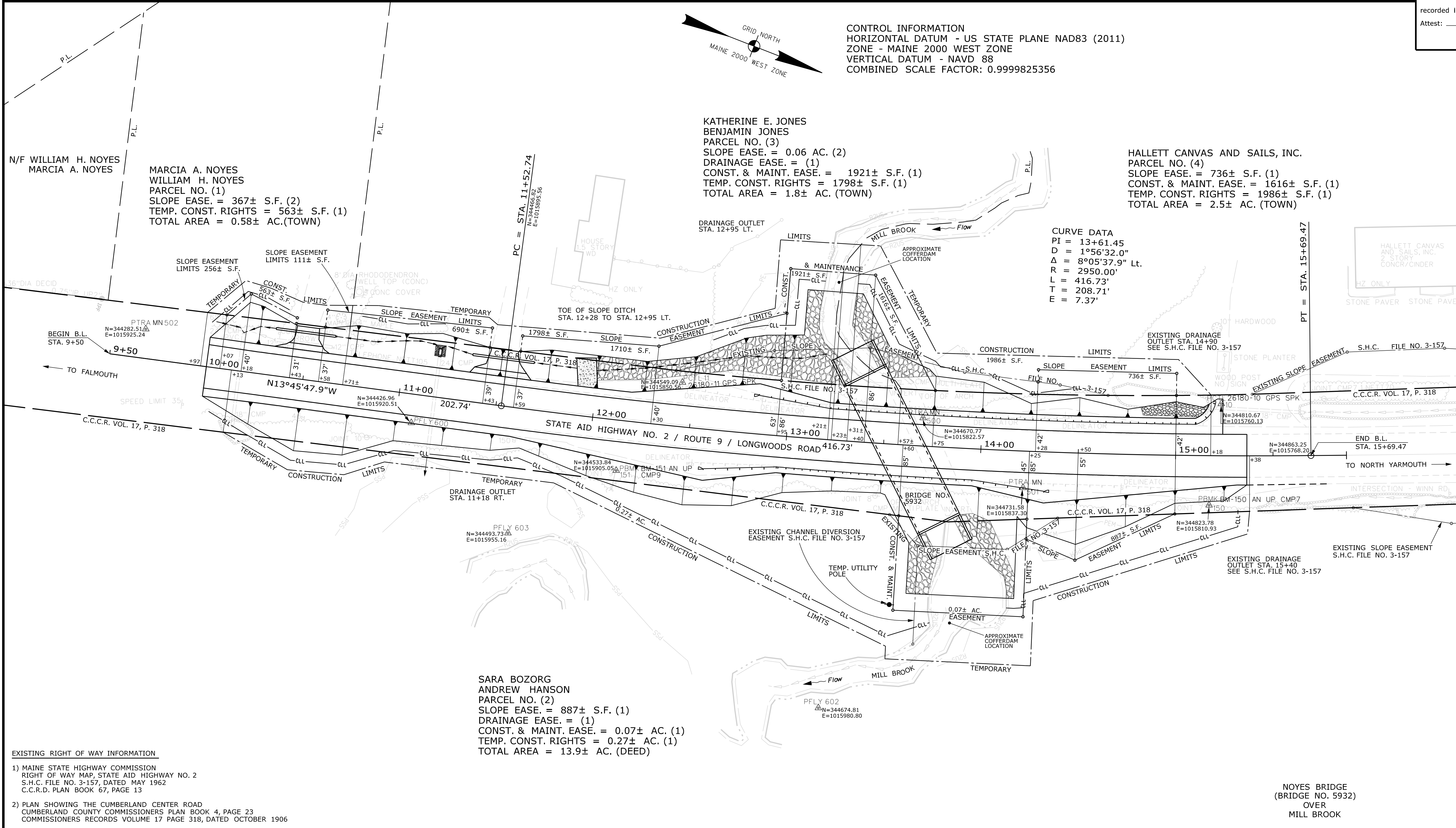
Proposed _____
 Cut Line _____
 Stonewall _____
 Baseline _____
 Monument _____
 Iron Rod Found _____
 Replacement Pin Set _____

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.

Scale of Feet: 0, 25, 50, 75, 100

STATE OF MAINE
 REGISTRY OF DEEDS

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



ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	C.J.C.	C.W.K.
FINAL RIGHT OF WAY	M.C.G.	P.N.S.
AREAS	M.C.G.	J.H.

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

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

DALE F. DOUGHTY
 ACTING COMMISSIONER
 WILLIAM A. PULVER
 CHIEF ENGINEER

DATE _____

STATE AID HIGHWAY NO. 2
 ROUTE 9 / LONGWOODS ROAD
 CUMBERLAND CUMBERLAND COUNTY
 WORK IDENTIFICATION NO. (W.I.N.) 026180.00

OCTOBER 2025
 SCALE 1" = 25'

RIGHT-OF-WAY MAP
 SHEET 1 OF 1

D.O.T. FILE NO. 3-683

SHEET NUMBER
 24
 OF 24

Date: 12/15/2025

Username: Mark.Cenaris

Division: ROW

Filename: ... \00\ROW\MSTA001_RWP\PLAN1.dgn