

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



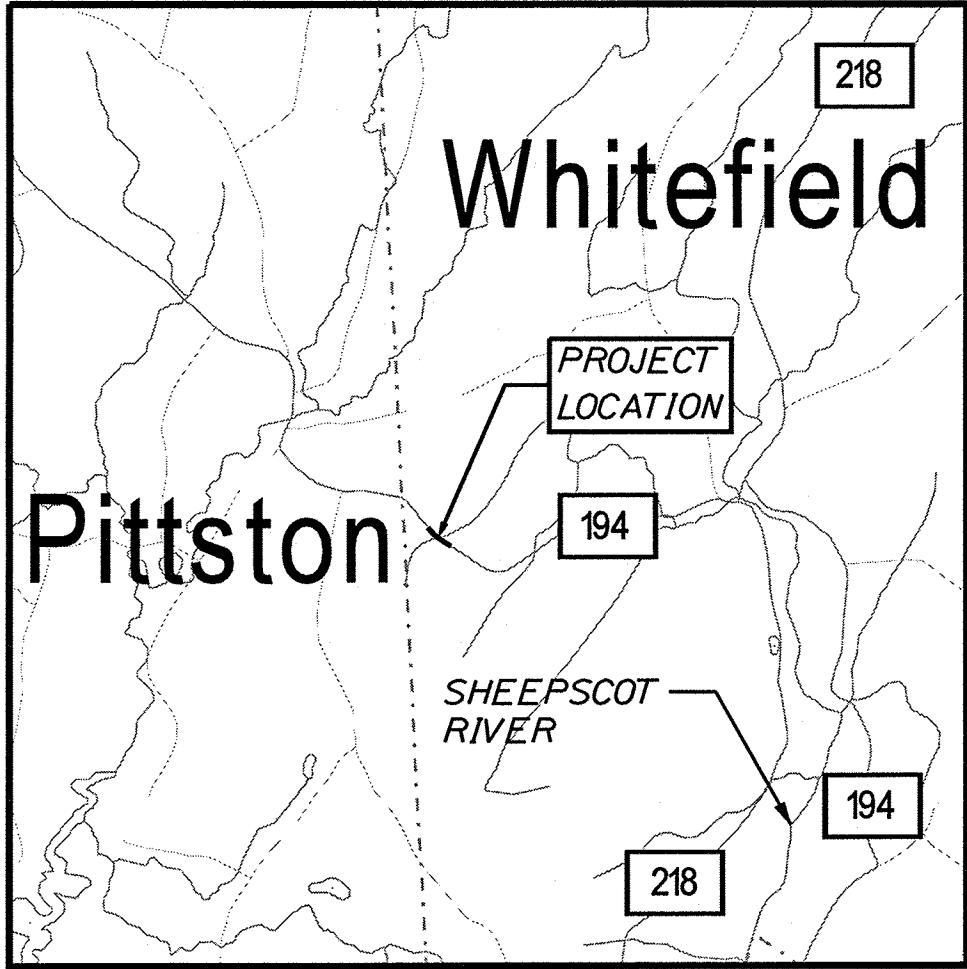
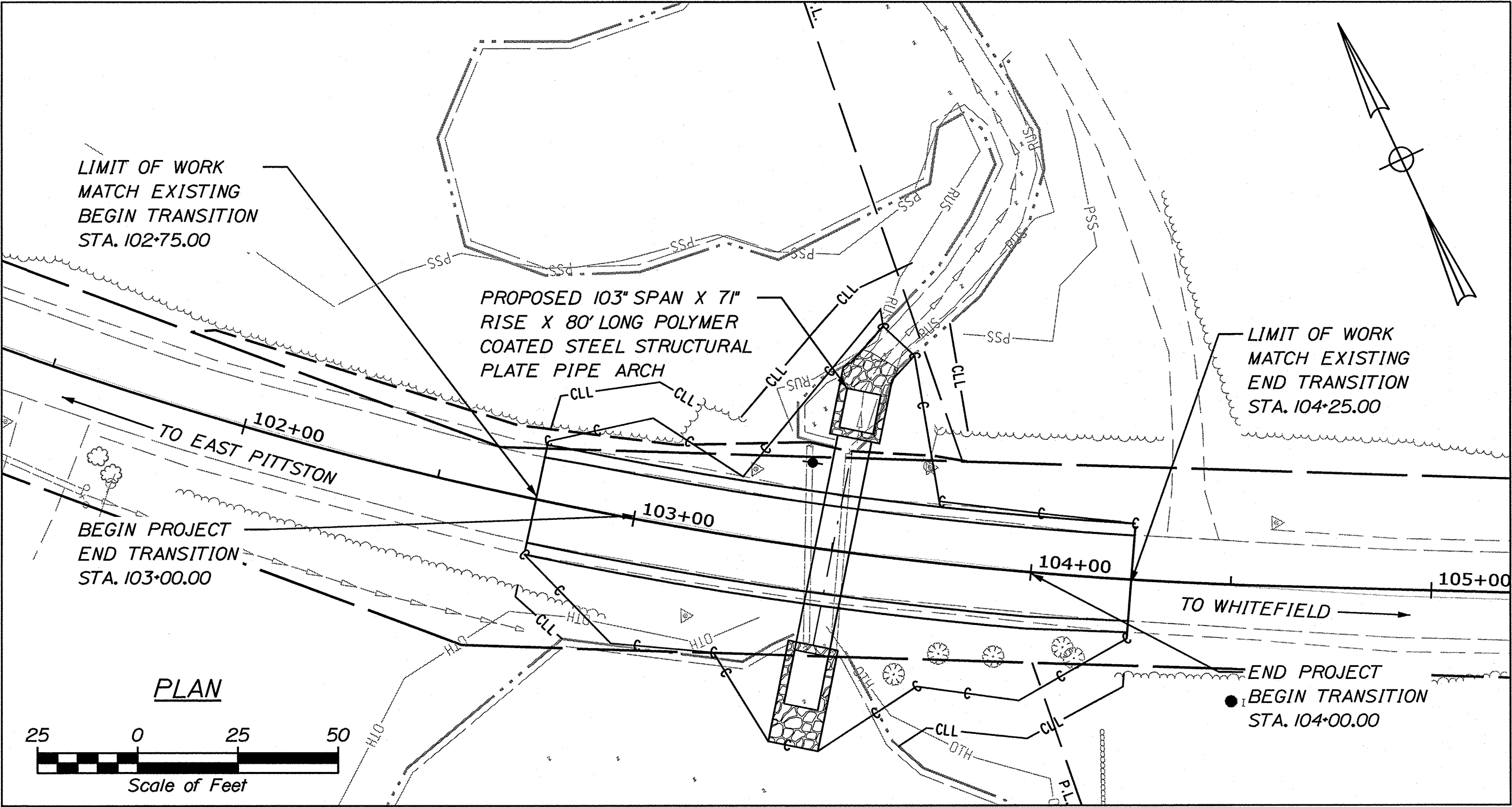
WHITEFIELD
LINCOLN COUNTY
ROUTE 194
STATE PROJECT NO. 25513.00
PROJECT LENGTH : 0.02 MILES

PLAN LEGEND

Town, County, State	Catch Basins	Existing	Proposed
Property Lines	Manholes	Existing	Proposed
R/W Lines-Existing	Proposed Underdrain		
R/W Lines-Proposed	Proposed Ditch		
Culvert-Existing	Existing Ditch		
Culvert Proposed	Utility Poles	Existing	Proposed
Curbing	Fire Hydrants	Existing	Proposed
Type 1	Existing Water Line		
Type 3	Existing San. Sewer		
Type 5	Existing San. Sewer Manhole		
Outline of Bodies of Water	Guardrail-Existing		
Exposed Bedrock	Guardrail-Proposed		
Buildings	Guardrail-Cable, Other		
Trees	Centerline-Existing		
Tree Line	Centerline-Proposed		
Clearing Limit Line	Travelway-Existing		
Railroad	Travelway-Proposed		
Boring	Probe		
Pavement Core			
Test Pit			

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TRAFFIC DATA

Current (2025) AADT	630
Future (2037) AADT	660
DHV - % of AADT	11%
Design Hour Volume	73
% Heavy Trucks (AADT)	11%
% Heavy Trucks (DHV)	5%
Directional Distribution (DHV)	63%
18 kip Equivalent P 2.0	21
18 kip Equivalent P 2.5	20
Design Speed (mph)	45
Functional Class	Major Collector
Highway Corridor Priority	4

PROJECT LOCATION:

LOCATED ON ROUTE 194 APPROXIMATELY 0.38 OF A MILE NORTHWEST OF RADDEN LANE

PROGRAM AREA:

REGIONAL PROGRAM

SCOPE OF WORK:

LARGE CULVERT REPLACEMENT

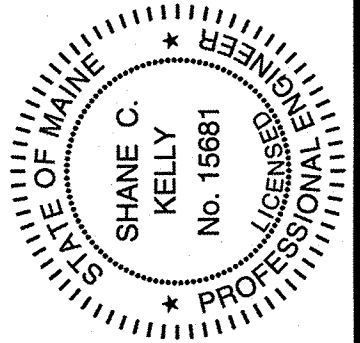
WIN 25513.00

WHITEFIELD
ROUTE 194
TITLE SHEET

SHEET NUMBER

1

OF 10



PROJECT INFORMATION	REGIONAL PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
		ROBERT BETZ	SHANE KELLY	SEBAGO TECHNIQUES, INC.			
		SIGNATURE	15681	P.E. NUMBER	12/11/2024	DATE	

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
		12-20-24
		12-20-24

COMMISSIONER:	CHIEF ENGINEER:

Date:12/11/2024

Username: skelly

Division: HIGHWAY

Filename: ... \MSTA\SHEETS\001_TITLE.dgn

PAVEMENT THICKNESSES SHOWN ON THE TYPICAL SECTIONS ARE INTENDED TO BE NOMINAL

2. CLEARING LIMITS SHALL BE 10 FEET BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

3. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.

4. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT.

5. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.

6. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.

7. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1 FOOT ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19.

8. EXISTING INSLOPES IN PROPOSED FILL AREAS SHALL BE BENCHED BY EXCAVATING STEPS OF SUFFICIENT WIDTH TO PERMIT PLACING AND COMPACTING THE FILL MATERIAL ALONG WITH THE MATERIAL REMOVED.

9. WHEN SUPER ELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER WILL HAVE SAME SLOPE AS THE TRAVELWAY.

10. CROSS SLOPES FOR NORMAL AND SUPERELEVATED SECTIONS WILL BE STRAIGHT UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.

11. THE ALGEBRAIC DIFFERENCE BETWEEN TRAVELWAY AND SHOULDER CROSS SLOPE SHALL NOT EXCEED 8 PERCENT.

12. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

13. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

14. LOAM HAS BEEN ESTIMATED FOR DISTURBED LAWN AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.

15. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL OTHER AREAS.

16. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.

17. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

18. THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL DESIGN REPORT FOR THE REPLACEMENT OF LARGE CULVERT #894509", SOILS REPORT 2024-27, AUGUST 29, 2024, CAN BE ACCESSED AT THE MAINEDOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).

19. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. MAINEDOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS (IF ANY) PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.

20. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.

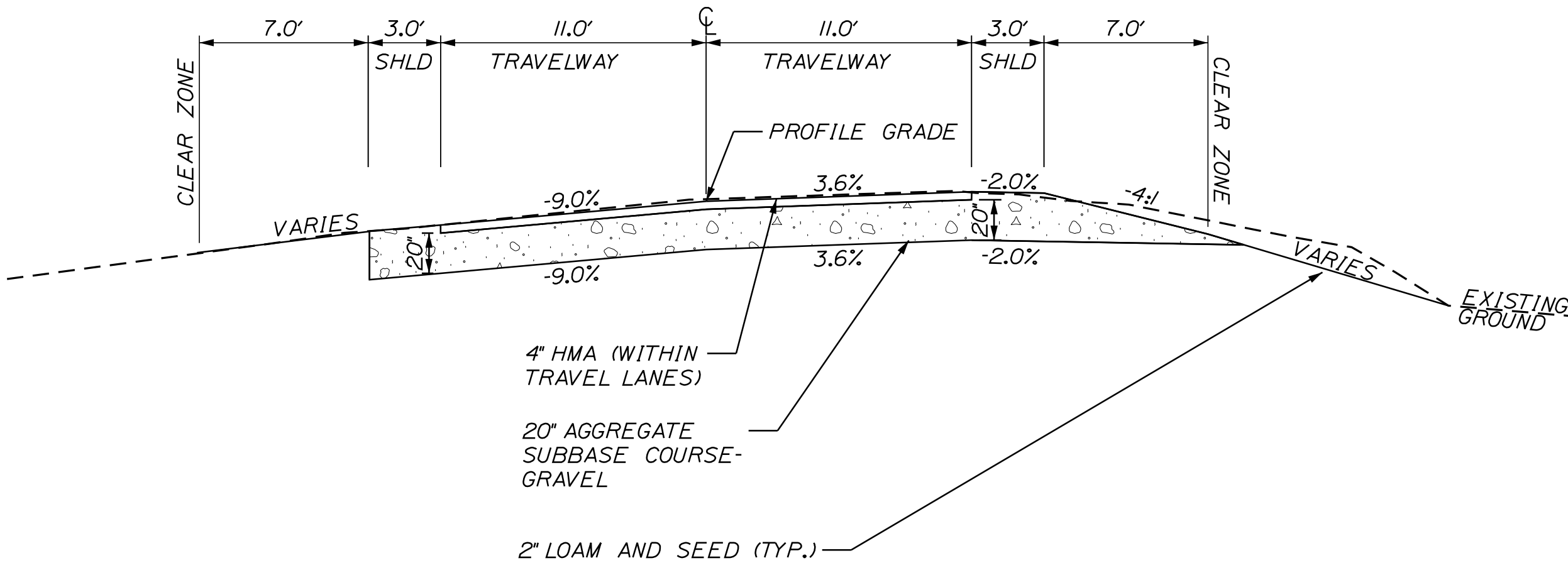
21. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS

22. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

23. FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING LAYOUT IN THE CONTRACT DOCUMENTS OR AS PROVIDED BY THE DEPARTMENT. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

24. CONSTRUCTION ON SPECIFIED PARCELS IS RESERVED. SEE SPECIAL PROVISION 105 (RESERVED LIMITS)

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	5	EA
201.24	REMOVING STUMP	5	EA
203.20	COMMON EXCAVATION	355	CY
203.25	GRANULAR BORROW	175	CY
203.55	CULVERT BEDDING STONE	70	CY
206.061	STRUCTURAL EARTH EXCAVATION- DRAINAGE & MINOR STRUCTURES BELOW GRADE	35	CY
304.10	AGGREGATE SUBBASE COURSE-GRAVEL	305	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	31	TONS
403.213	HOT MIX ASPHALT 12.5 MM HMA BASE	51	TONS
409.15	BITUMINIOUS TACK COAT	11	GAL
509.12	STEEL STRUCTURAL PLATE PIPE ARCH: 103" x 71" POLYMER COATED	1	LS
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
610.08	PLAIN RIPRAP	25	CY
610.212	STREAMBED ROCK FEATURES	5	CY
613.319	EROSION CONTROL BLANKET	60	SY
615.07	LOAM	55	CY
618.14	SEEDING METHOD NUMBER 2	5	UN
619.12	MULCH	5	UN
619.14	EROSION CONTROL MIX	10	CY
620.54	STABILIZATION/REINFORCEMENT GEOTEXTILE	140	SY
620.58	EROSION CONTROL GEOTEXTILE	45	SY
620.65	REINFORCEMENT GRID	105	SY
627.73	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	450	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.172	LARGE TRUCK (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	BARRICADE TYPE III	4	EA
652.33	DRUM	50	EA
652.34	CONE	100	EA
652.35	CONSTRUCTION SIGN	325	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	30	CD
652.38	FLAGGER	130	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

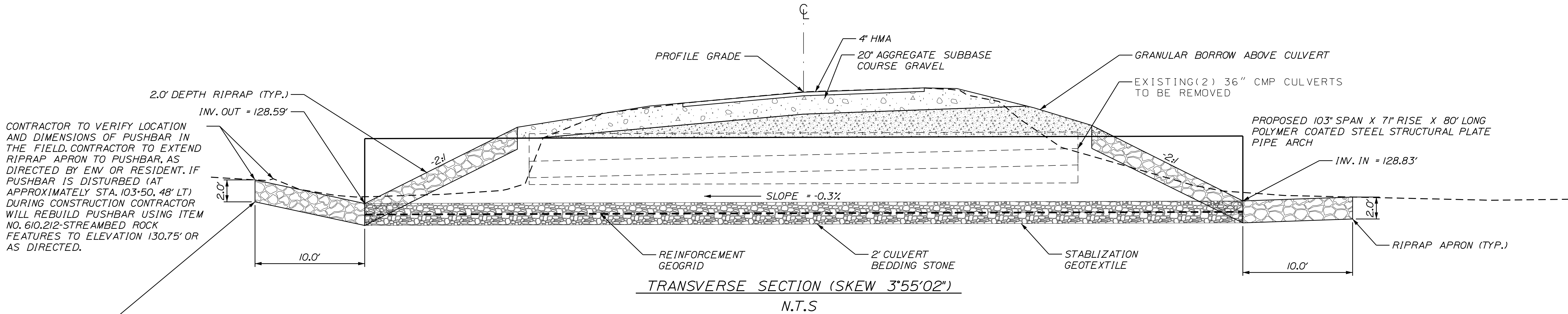
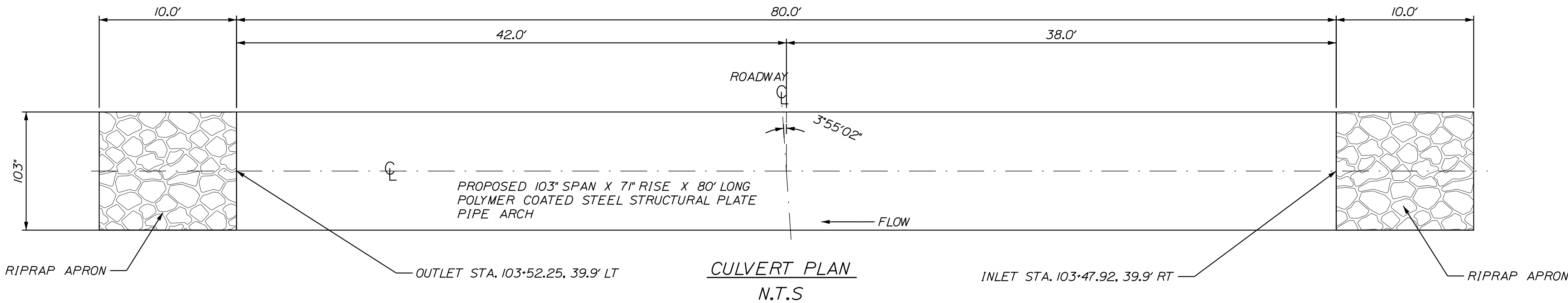


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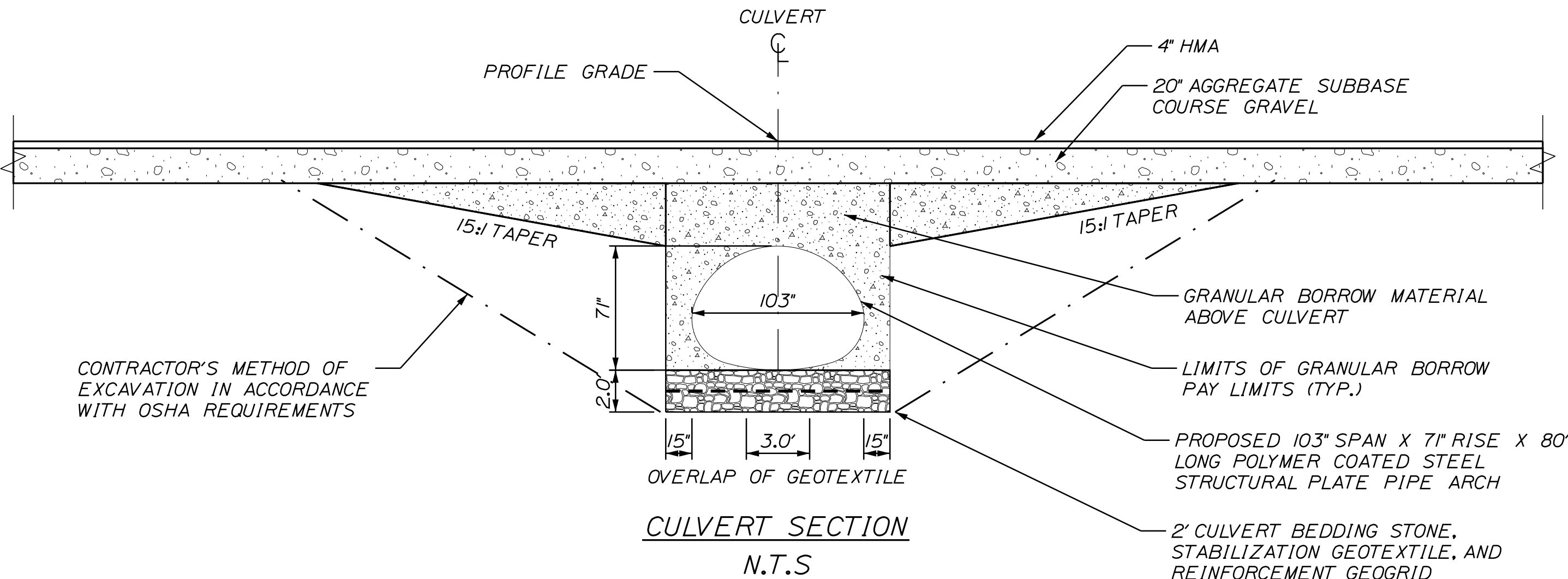
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CULVERT NOTES

- COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF THE STRUCTURE TO ALLOW WATER TO BE PUMPED AND REMOVED DURING CONSTRUCTION OF THE STEEL STRUCTURAL PLATE PIPE ARCH.
- THE POLYMER COATED STEEL STRUCTURAL PLATE PIPE ARCH SHALL BE BEDDED ON A 2-FOOT LAYER OF CULVERT BEDDING STONE INCLUDING THE INSTALLATION OF STABILIZATION GEOTEXTILE AND REINFORCEMENT GEOGRID.
- ALL EXCAVATION AND BACKFILL FOR THE PROPOSED 103\"/>
- VOIDS IN RIPRAP APRONS SHALL BE FILLED WITH GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL (OR OTHER MATERIAL APPROVED BY THE RESIDENT) TAMPED AND WASHED IN.
- STABILIZATION GEOTEXTILE SHALL BE OVERLAPPED A MINIMUM OF 3'.
- THE REINFORCEMENT GEOGRID SHALL MEET THE REQUIREMENTS OF SPECIAL PROVISION 620.
- THE POLYMER COATED STEEL STRUCTURAL PLATE PIPE ARCH SHALL HAVE A MATERIAL THICKNESS OF 5 GAUGE.
- CONSTRUCTION, HANDLING, AND ASSEMBLY OF THE POLYMER COATED STEEL STRUCTURAL PLATE PIPE ARCH SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 509 AND THE MANUFACTURER'S SPECIFICATIONS, AS APPLICABLE.

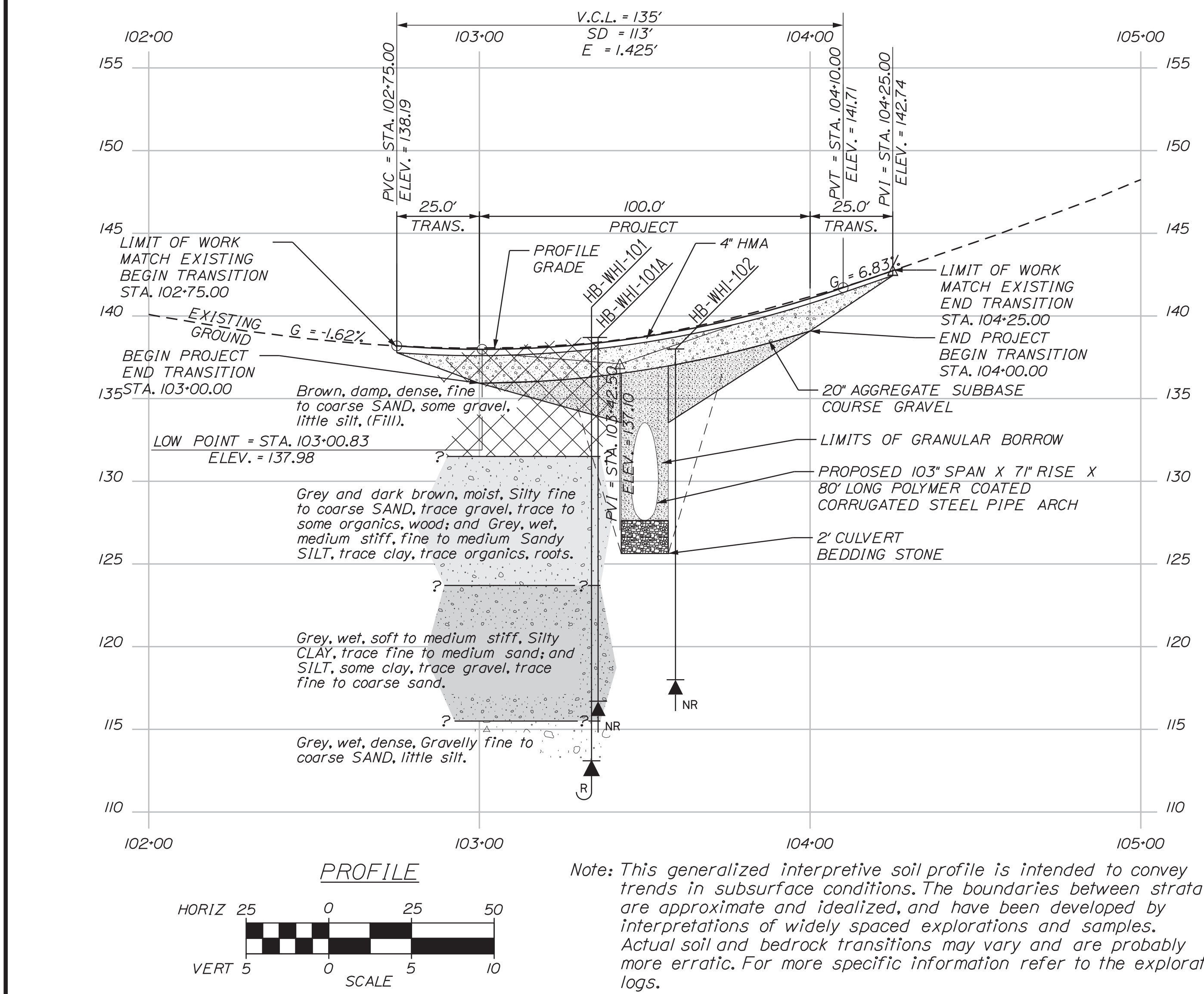
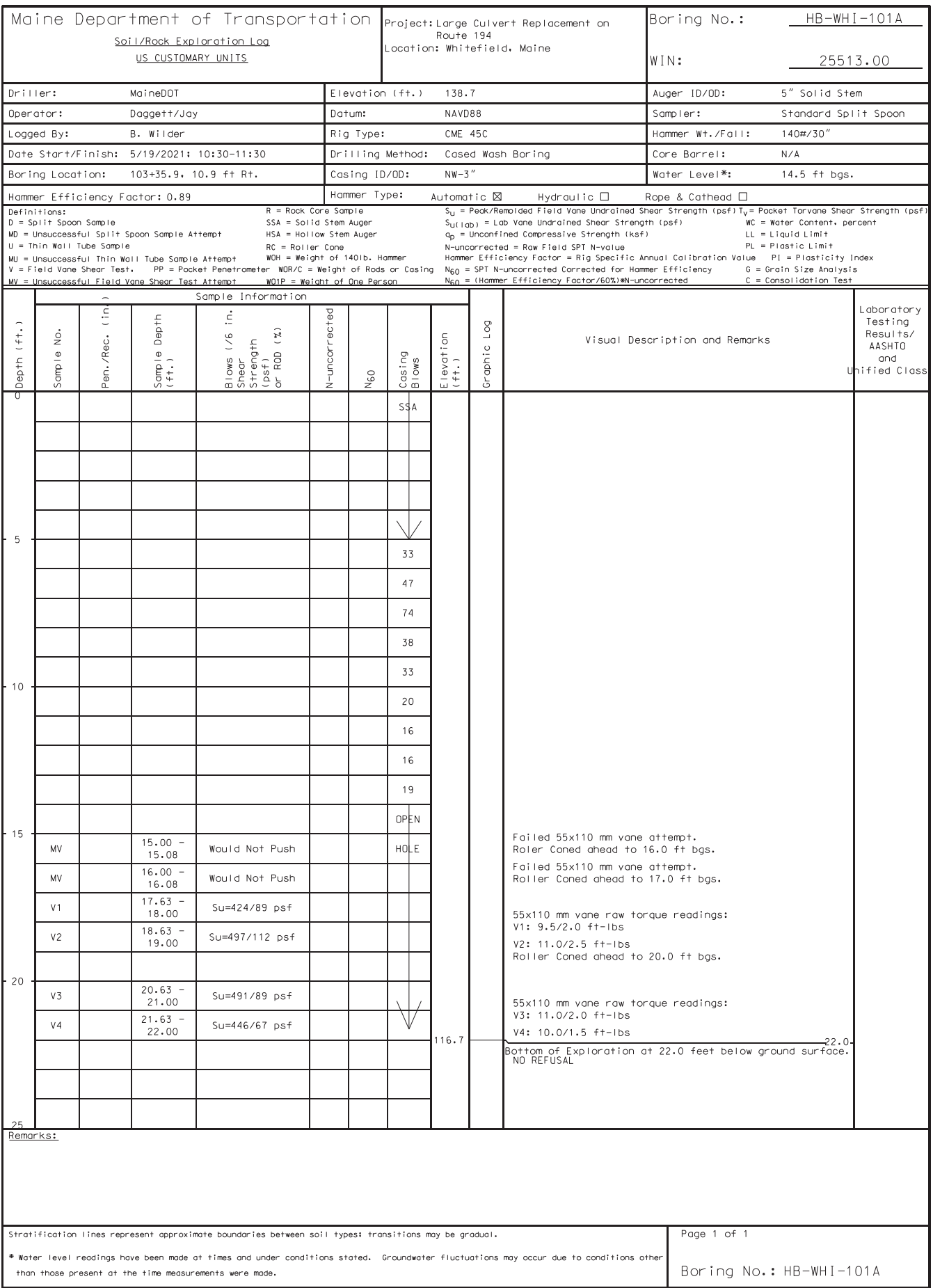


STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
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WIN	25513.00
HIGHWAY PLANS	

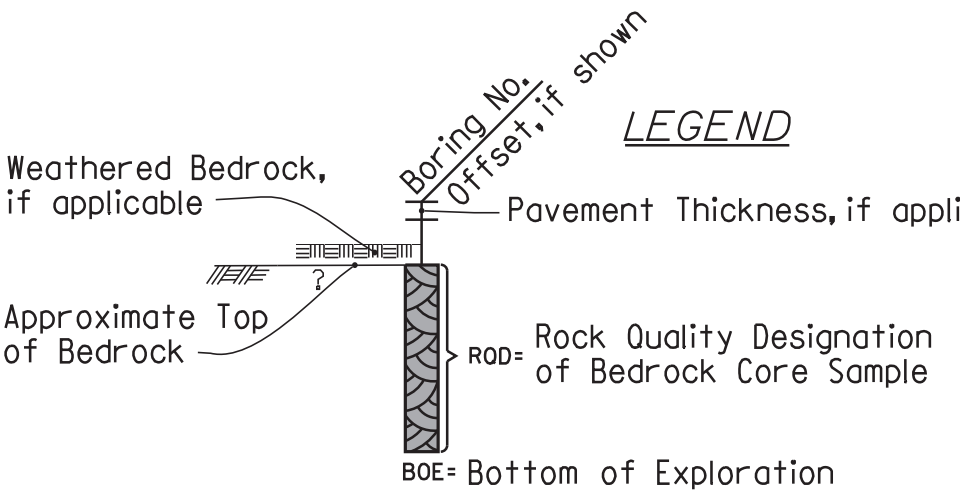
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CHECKED-DETAILED	11/27/24	S. KELLY		
DESIGN-DETAILED				
DESIGN-DETAILED				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

WHITEFIELD	ROUTE 194	SPECIAL DETAIL- POLYMER COATED STEEL STRUCTURAL PLATE PIPE ARCH

SHEET NUMBER
3
OF 10



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 and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

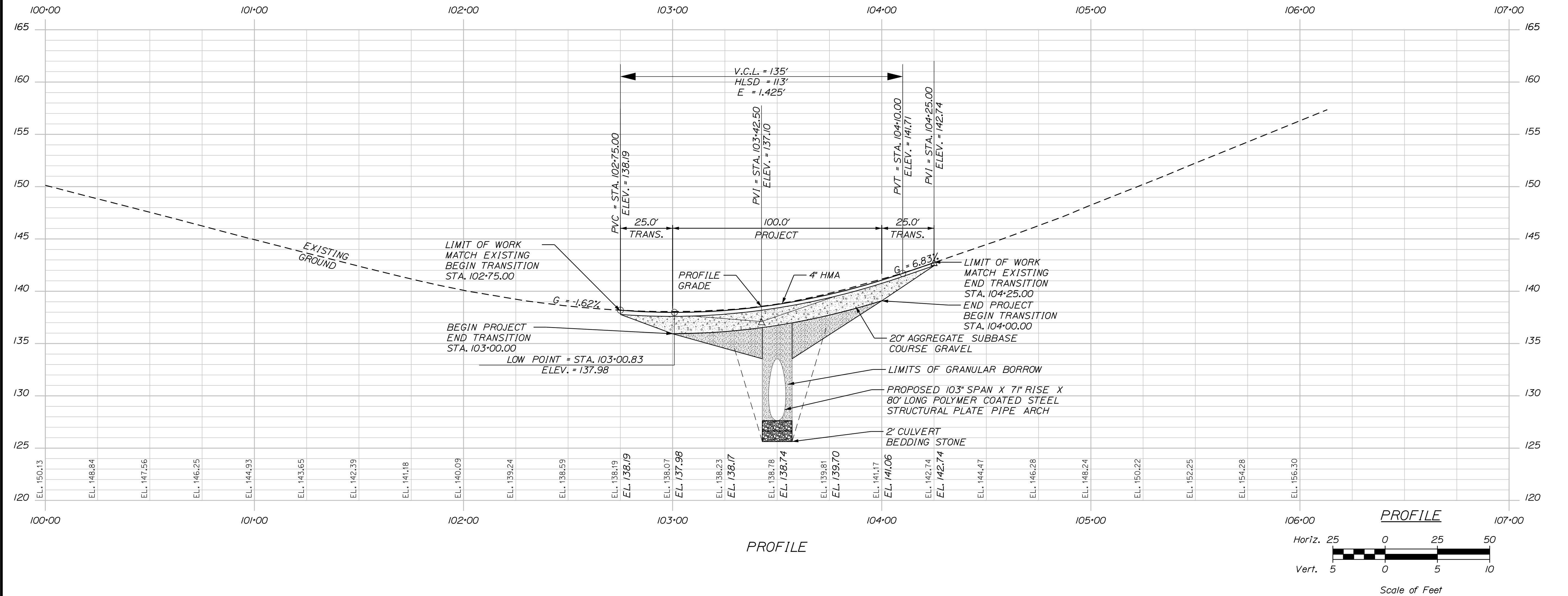
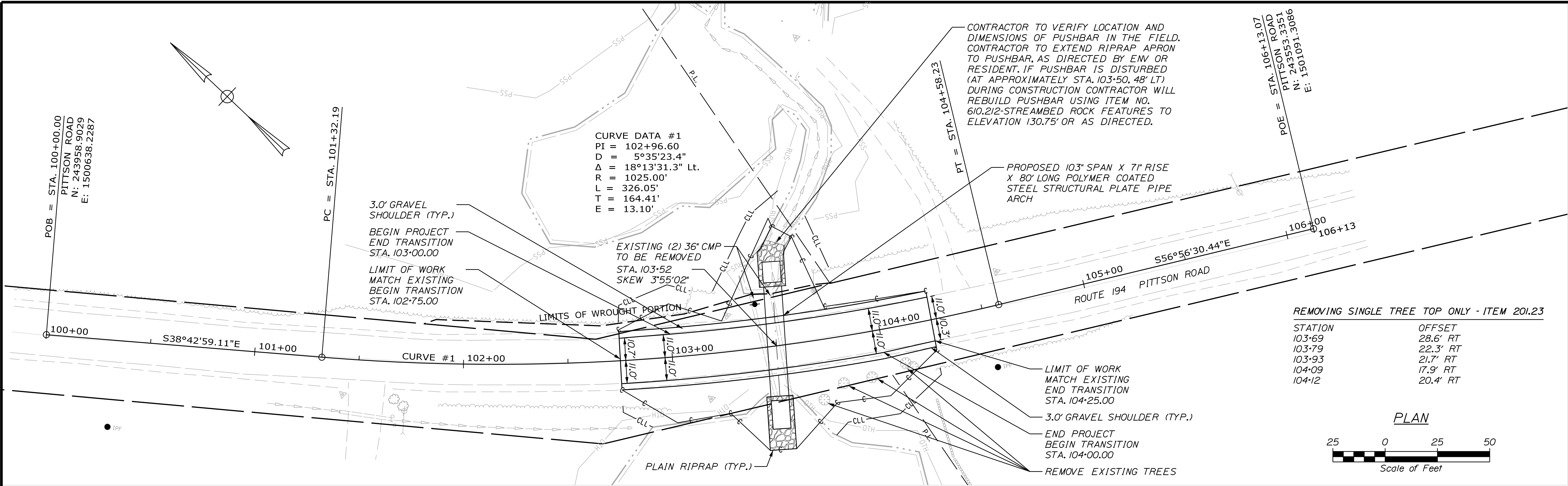


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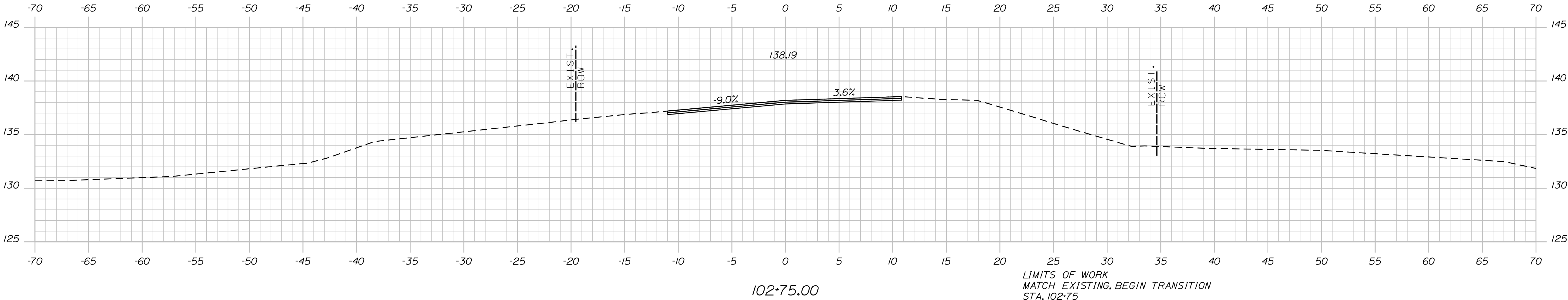
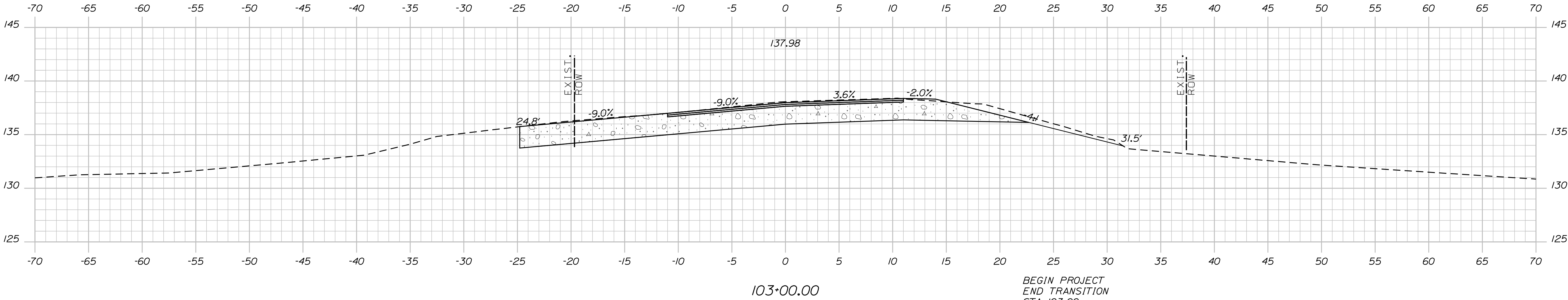
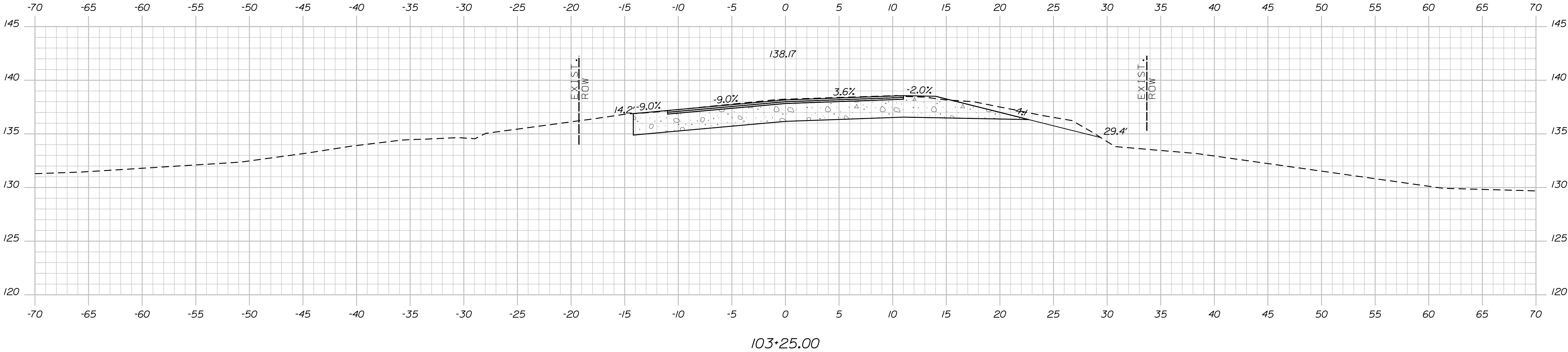
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WHITEFIELD		ROUTE 194		PLAN & PROFILE		SHEET NUMBER		5		OF 10	
PROJ. MANAGER	R. BETZ	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES	
BY	S. KELLY	DATE	11/27/24	SIGNATURE	P.E. NUMBER	DATE					

Date:12/11/2024

Username: skelly

Division: HIGHWAY

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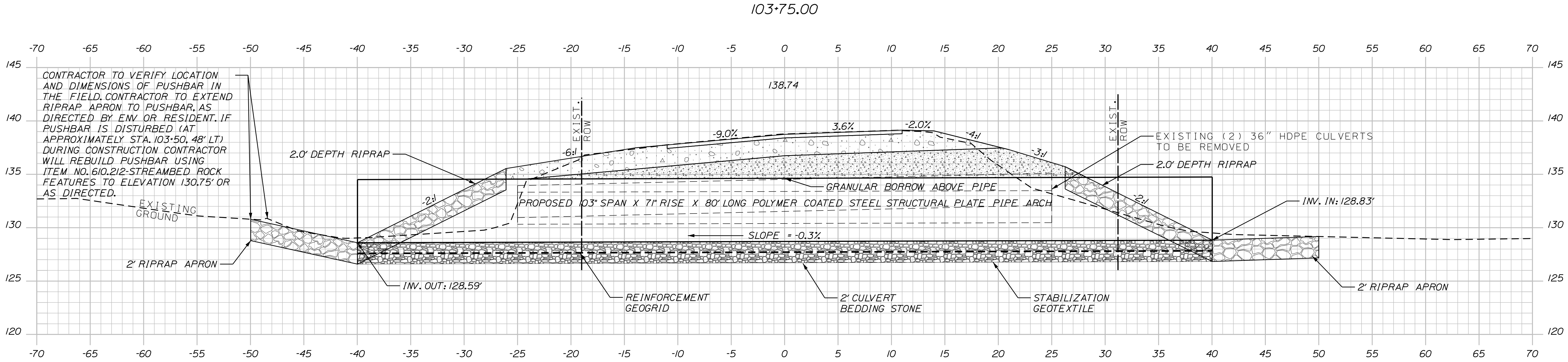
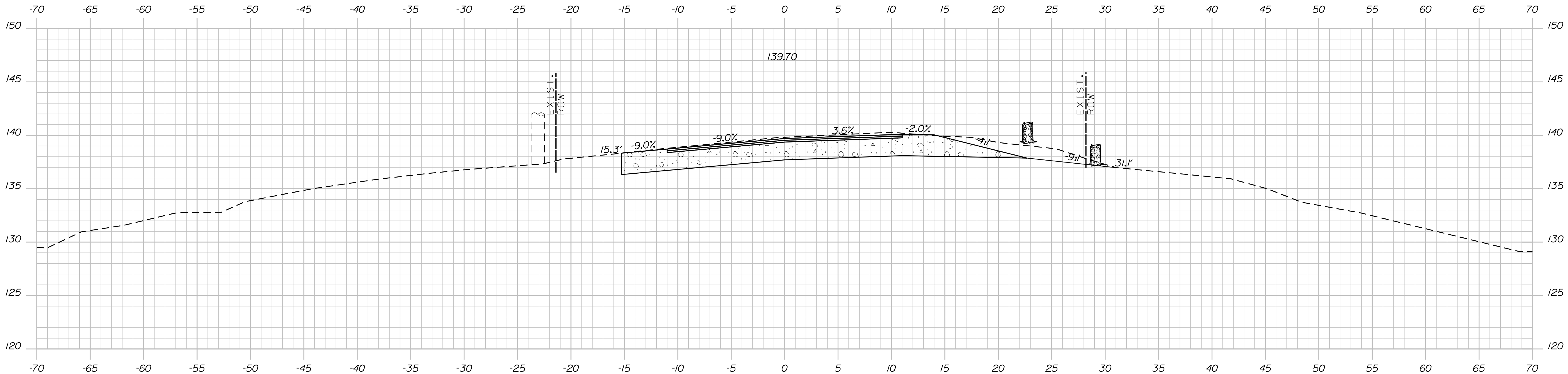


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Username: skelly

Division: HIGHWAY

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STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
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WIN	25513.0
HIGHWAY PLANS	

PROJ. MANAGER		DATE	
CHECKED-REVIEWED		11/27/24	
DESIGN-DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WHITEFIELD	
ROUTE 194	
CROSS SECTIONS	

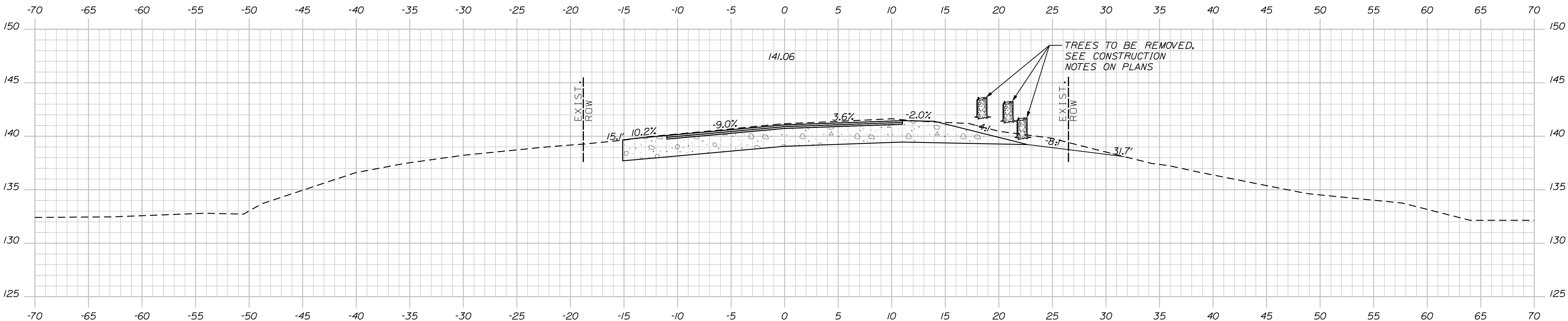
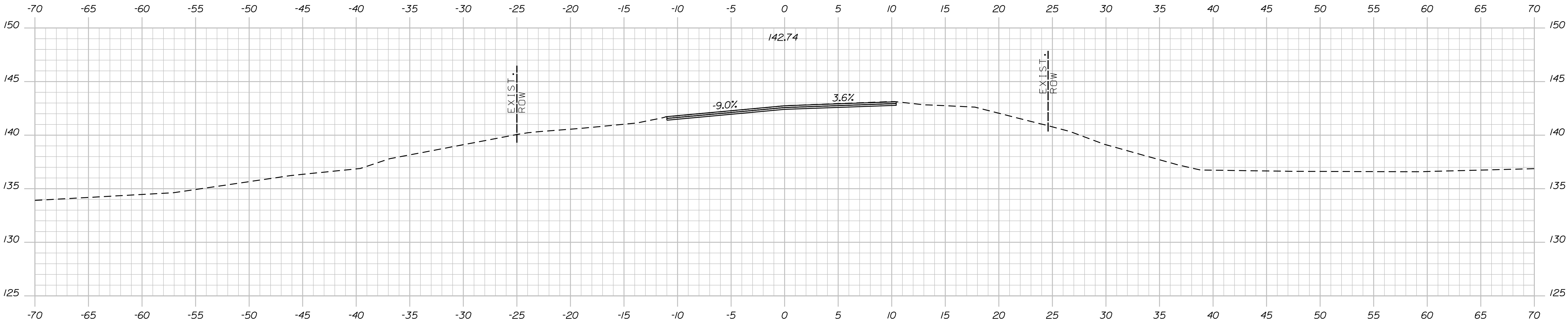
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OF 10	

Date:12/11/2024

Username: skelly

Division: HIGHWAY

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STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
25513.00	
WIN	25513.00
HIGHWAY PLANS	

SIGNATURE	
P.E. NUMBER	
DATE	
PROJ. MANAGER	DATE
CHECKED-REVIEWED	BY
DESIGN-DETAILED	R. BETZ
REVISIONS 1	S. KELLY
REVISIONS 2	11/27/24
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

WHITEFIELD	
ROUTE 194	
CROSS SECTIONS	

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OF 10	



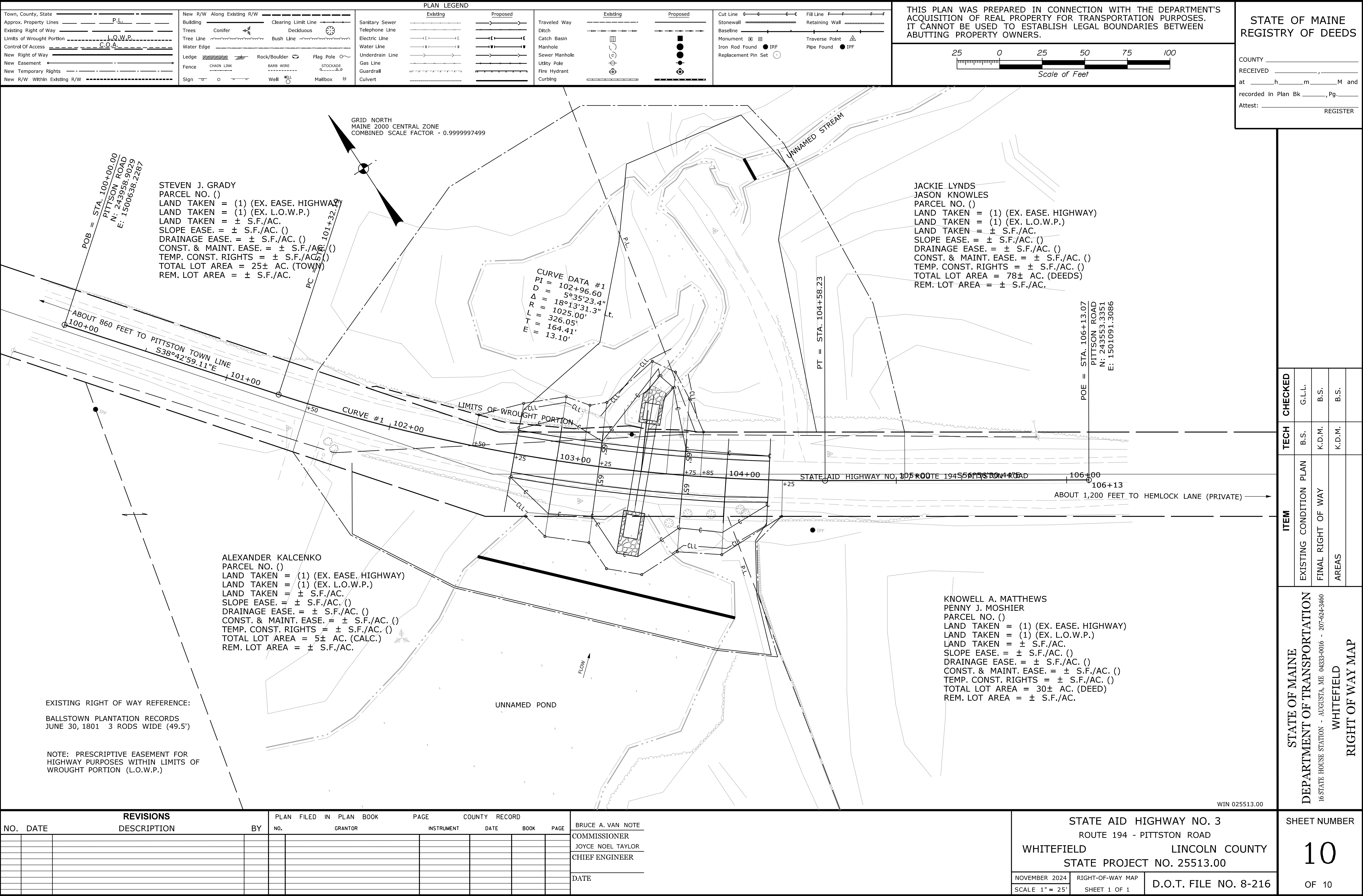
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WHITEFIELD		ROUTE 194		DETOUR PLAN		SHEET NUMBER		9	
OF 10									

Date:12/11/2024

Username: skelly

Division: HIGHWAY

Filename: ... \00\ROW\MSTA001_RWPLAN1.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



WHITEFIELD
LINCOLN COUNTY
JEWETT BRIDGE
OVER
ALBEE STREAM
PITTSTON ROAD
FEDERAL AID PROJECT NO. 2615800
PROJECT LENGTH 0.056 mi.
BRIDGE NO. 5460

SPECIFICATIONS

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

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

HYDROLOGIC DATA

Drainage Area	2.82 sq mi
Design Discharge (Q50)	365 cfs
Check Discharge (Q100)	425 cfs
Headwater Elevation (Q1.1)	91.58 ft
Headwater Elevation (Q25)	93.99 ft
Headwater Elevation (Q50)	94.37 ft
Headwater Elevation (Q100)	94.676 ft
Discharge Velocity (Q1.1)	4.67 fps
Discharge Velocity (Q25)	6.11 fps
Discharge Velocity (Q50)	6.38 fps
Discharge Velocity (Q100)	6.67 fps

TRAFFIC DATA

Current (2023) AADT	580
Future (2043) AADT	640
DHV - % of AADT	11
Design Hour Volume	70
Heavy Trucks (% of AADT)	12
Heavy Trucks (% of DHV)	5
Directional Distribution (% of DHV)	63
18 kip Equivalent P 2.0	23
18 kip Equivalent P 2.5	21
Design Speed (mph)	45

LIST OF DRAWINGS

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UTILITIES

CMP
CHARTER COMMUNICATIONS (SPECTRUM)
CONSOLIDATED COMMUNICATIONS

MAINTENANCE OF TRAFFIC

Bridge will be closed during construction with traffic detoured offsite.

PROJECT LOCATION	Jewett Bridge over Albee Stream. Located 0.24 of a mile West of Townhouse Road Lat./Long. 44°16'90.5" N 69°63'16.2" W
PROGRAM AREA	Highway Bridges - Traditional
OUTLINE OF WORK	Bridge Replacement

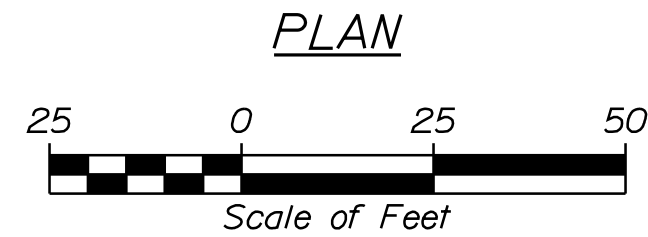
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER: <i>Joshua Paul Hasbrouck</i>	12-20-2024
CHIEF ENGINEER: <i>Joshua Paul Hasbrouck</i>		12-20-2024

STATE OF MAINE DEPARTMENT OF TRANSPORTATION Professional Engineer Seal Signature: <i>Joshua Paul Hasbrouck</i> P.E. NUMBER: 14372 DATE: 17 December 2024	
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PROJECT INFORMATION	
PROGRAM	BRIDGE PROGRAM
PROJECT MANAGER	GERALD LIBBY, JR.
DESIGNER	CASEY VANDENBOSCH
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

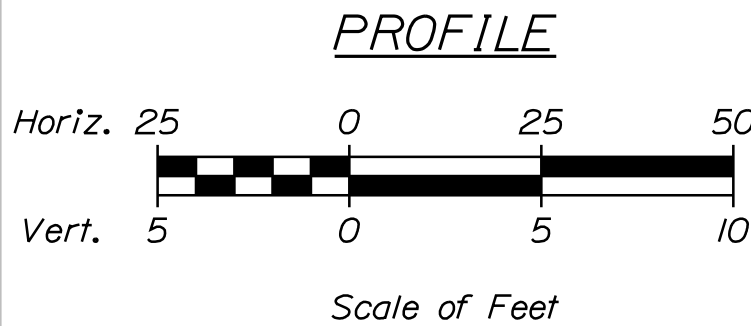
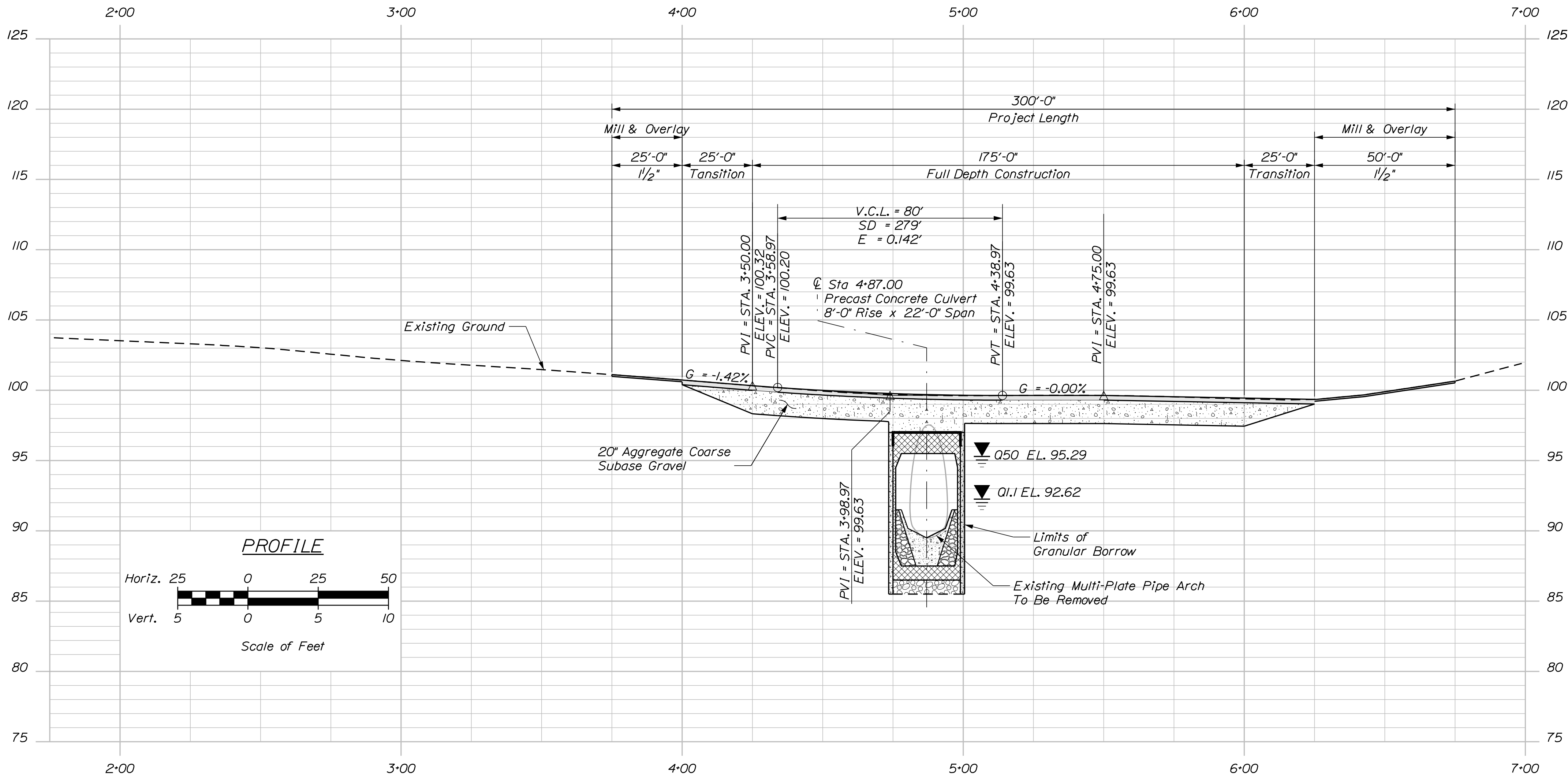
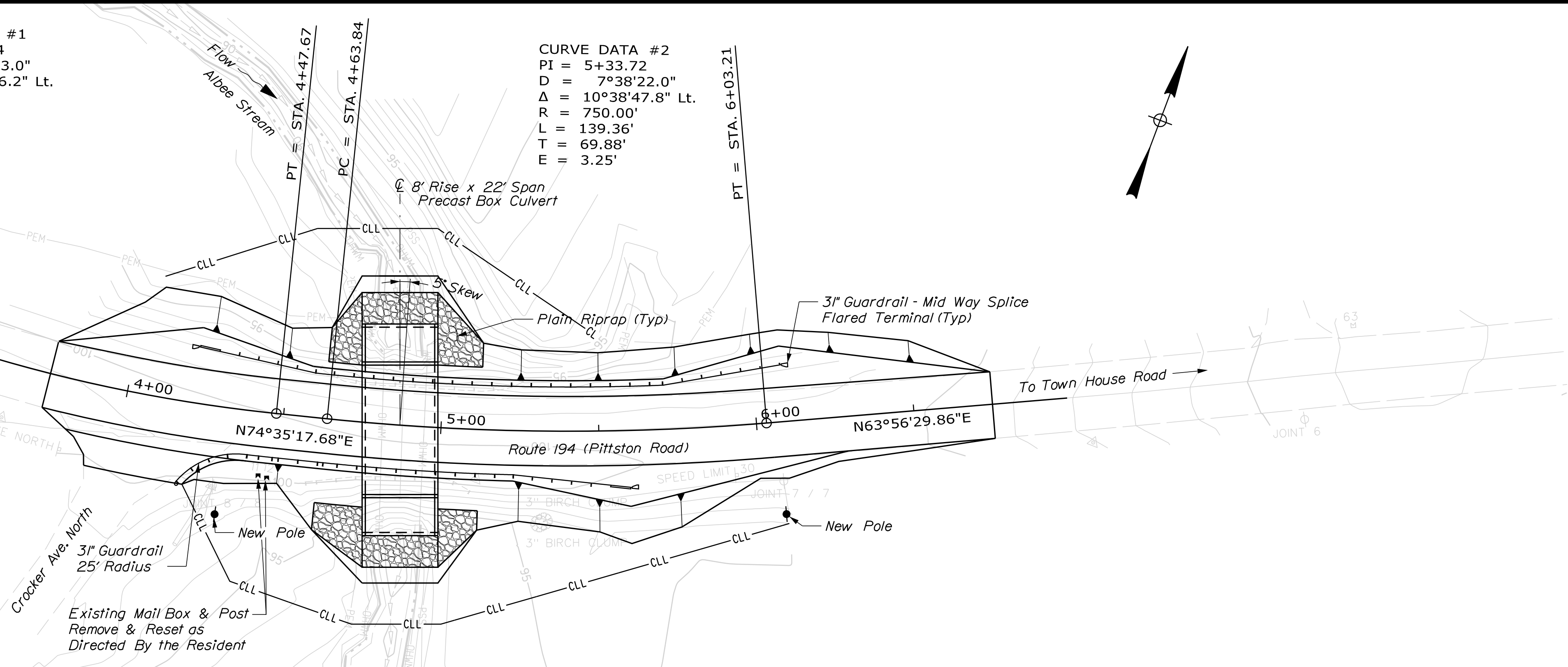
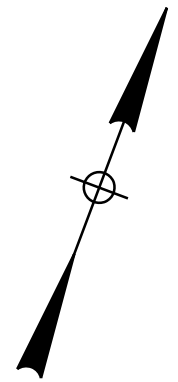
WHITEFIELD JEWETT BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 19



CURVE DATA #1
PI = 3+47.64
D = 11°27'33.0"
Δ = 23°14'56.2" Lt.
R = 500.00'
L = 202.89'
T = 102.86'
E = 10.47'

CURVE DATA #2
PI = 5+33.72
D = 7°38'22.0"
Δ = 10°38'47.8" Lt.
R = 750.00'
L = 139.36'
T = 69.88'
E = 3.25'

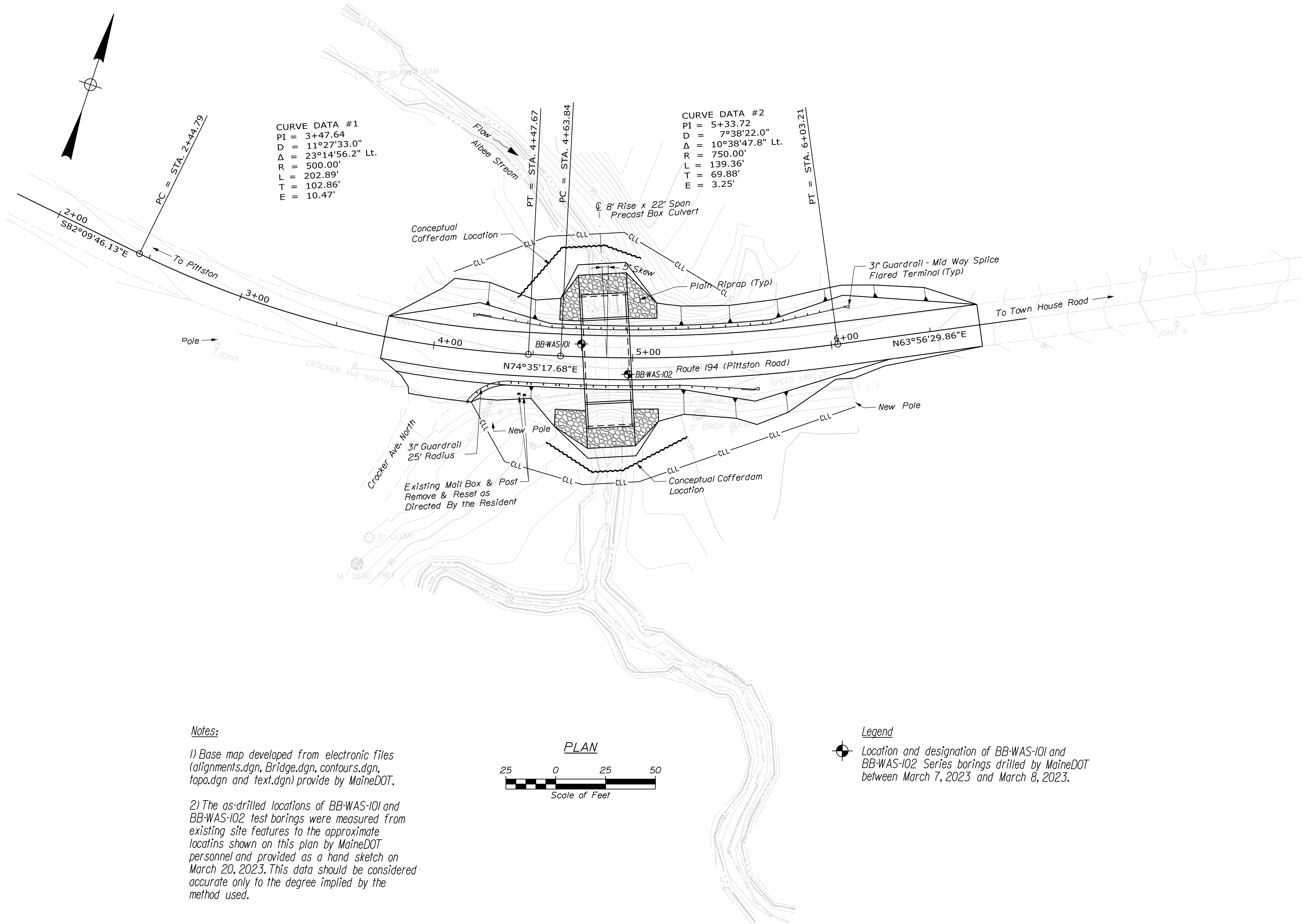


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2615800
WIN
026158.00
BRIDGE NO. 6490
BRIDGE PLANS

DESIGNED-Detailed	DATE	BY	PROJ. MANAGER
CHECKED-Reviewed	OCT 2024	MRP	LIBBY, JR.
DESIGNED-Detailed	DEC 2024		VANDERBOSCH
DESIGNED-Detailed			HASBROUCK
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

JEWETT BRIDGE	WHITEFIELD
ALBEE STREAM	LINCOLN COUNTY
PRELIMINARY PLAN & PROFILE	

SHEET NUMBER
3
OF 19



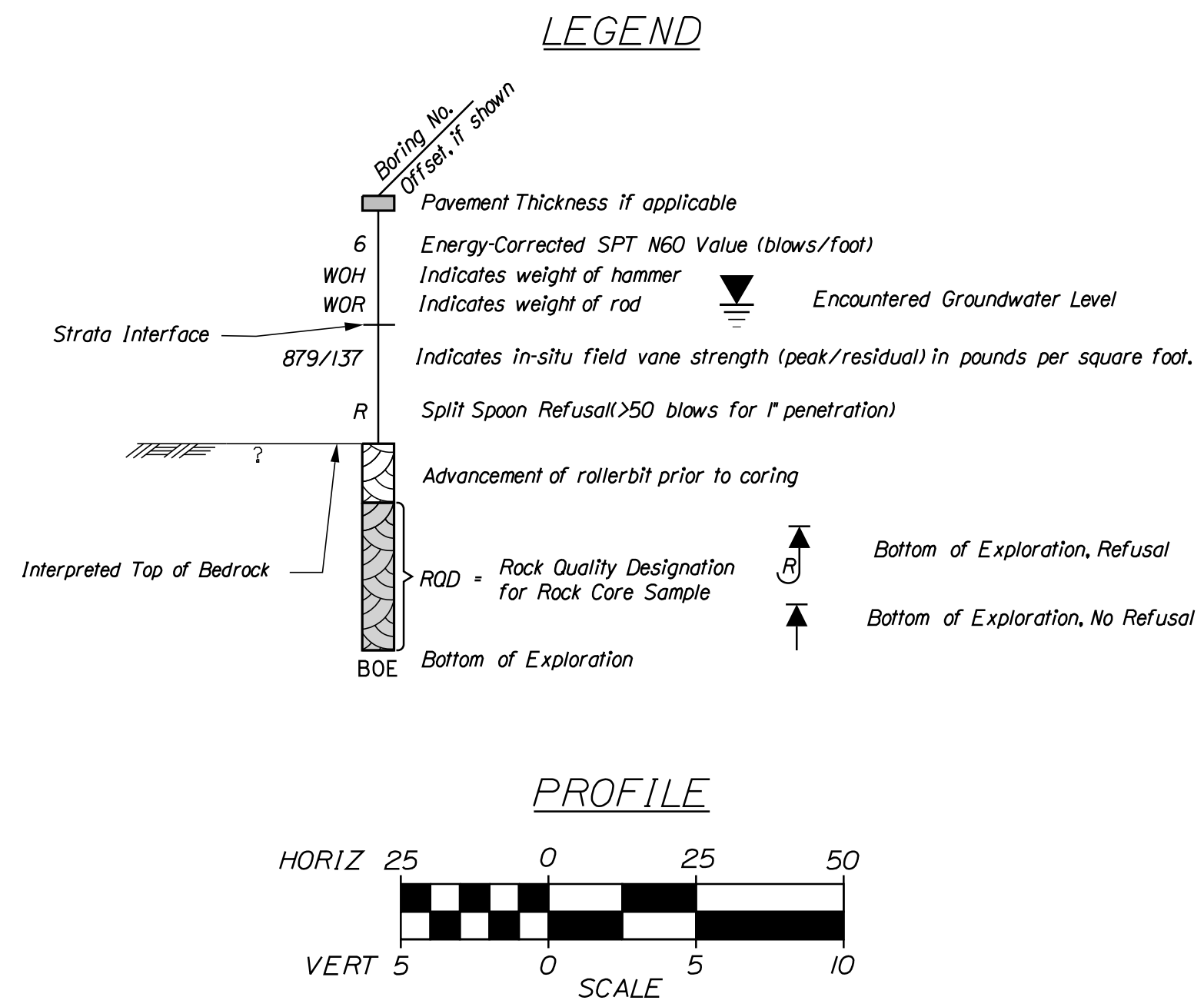
Notes:

- 1) Base map developed from electronic files (alignments.dgn, Bridge.dgn, contours.dgn, topo.dgn and text.dgn) provide by MaineDOT.
- 2) The as-drilled locations of BB-WAS-101 and BB-WAS-102 test borings were measured from existing site features to the approximate locations shown on this plan by MaineDOT personnel and provided as a hand sketch on March 20, 2023. This data should be considered accurate only to the degree implied by the method used.

Legend

Location and designation of BB-WAS-101 and BB-WAS-102 Series borings drilled by MaineDOT between March 7, 2023 and March 8, 2023.

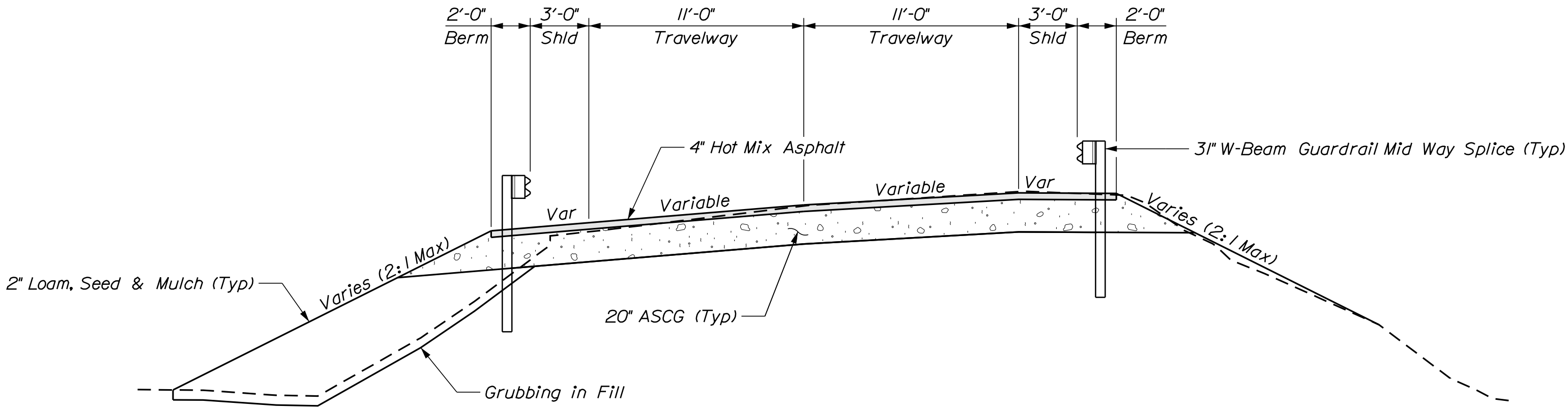
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE			
	P.E. NUMBER			
	DATE			
SHEET NUMBER		BORING LOCATION PLAN		
4		OF 19		
BRIDGE NO. 5490		BRIDGE PLANS		
WIN		261580.00		
2615800		DEPARTMENT OF TRANSPORTATION		
2615800		STATE OF MAINE		



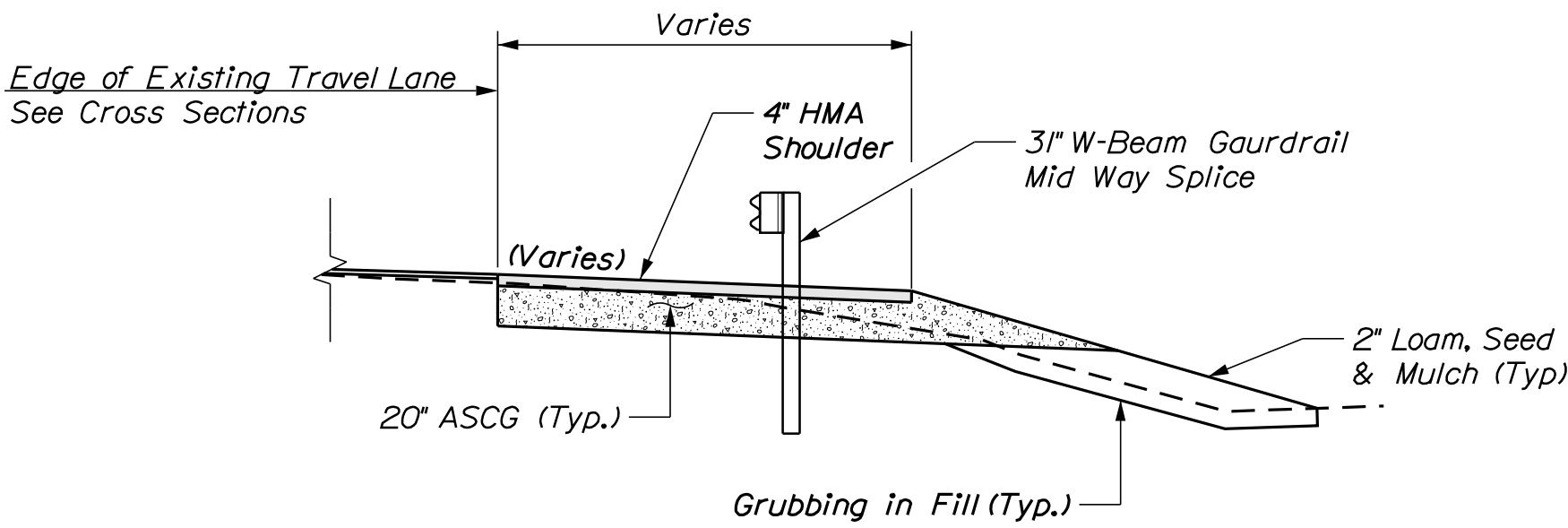
- Notes:
- 1) Base Profile developed from electronic file (Profile.dgn) provide by MaineDOT.
 - 2) The as-drilled locations of BB-WAS-101, and BB-WAS-102 test borings were measured from existing site features to the approximate locations shown on this plan by MaineDOT personnel and provided as a hand sketch on March 20, 2023. This data should be considered accurate only to the degree implied by the method used.
 - 3) 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 and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

Maine Department of Transportation										Project: Jewett Bridge #5460 carries Pittsford Road over Abbee Stream Whitefield, Maine		Boring No.: BB-WAS-101	
Soil/Bore Exploration Log US CUSTOMARY UNITS										WIN:		26158.00	
Drillers:		S.W. Cole		Elevation (ft.):		98.9		Auger (10/00):		5" Solid Stem			
Operators:		Jeff/Coley		Datum:		NAVD88		Sampler:		Standard Split Spoon			
Logged By:		J. Monahan		Rig Types:		CME 850		Hammer Wt./Fall:		140#/30"			
Date Start/Finish:		3/17/2023-3/8/2023		Drilling Method:		Cased Wash Boring		Core Barrel:		NQ-2"			
Boring Location:		474+2.6 4 ft L x L		Casing 10/00:		HW-4"		Water Level:		7.0 ft bgs.			
Hammer Efficiency Factor 0.86				Hammer Type:		Automatic 85		Hydraulic 85		Rope & Cathead 85			
0 = Split Spoon Sample 1 = Standard Split Spoon Sample (Atterberg) 2 = Thin Wall Tube Sample 3 = Thick Wall Tube Sample 4 = Vane Shear Test 5 = Pocket Hammer 6 = Weight of Hole or Casing 7 = Penetration Test 8 = Blow Count of Dry Bore 9 = Rock Core Sample 10 = Solid Stem Auger 11 = Water Stem Auger 12 = Roller Core 13 = Weight of Hole 14 = Hammer 15 = Weight of Hole or Casing 16 = Penetration Test 17 = Blow Count of Dry Bore 18 = Automatic 85 19 = Hydraulic 85 20 = Rope & Cathead 85 21 = Pocket Torque Shear Strength (opt) 22 = Lab vane Undrained Shear Strength (opt) 23 = Unconfined Compressive Strength (opt) 24 = Shear vane Undrained Shear Strength (opt) 25 = Horizontal Consolidation Strength (opt) 26 = Horizontal Consolidation Strength (opt) 27 = Horizontal Consolidation Strength (opt) 28 = Horizontal Consolidation Strength (opt) 29 = Horizontal Consolidation Strength (opt) 30 = Horizontal Consolidation Strength (opt) 31 = Horizontal Consolidation Strength (opt) 32 = Horizontal 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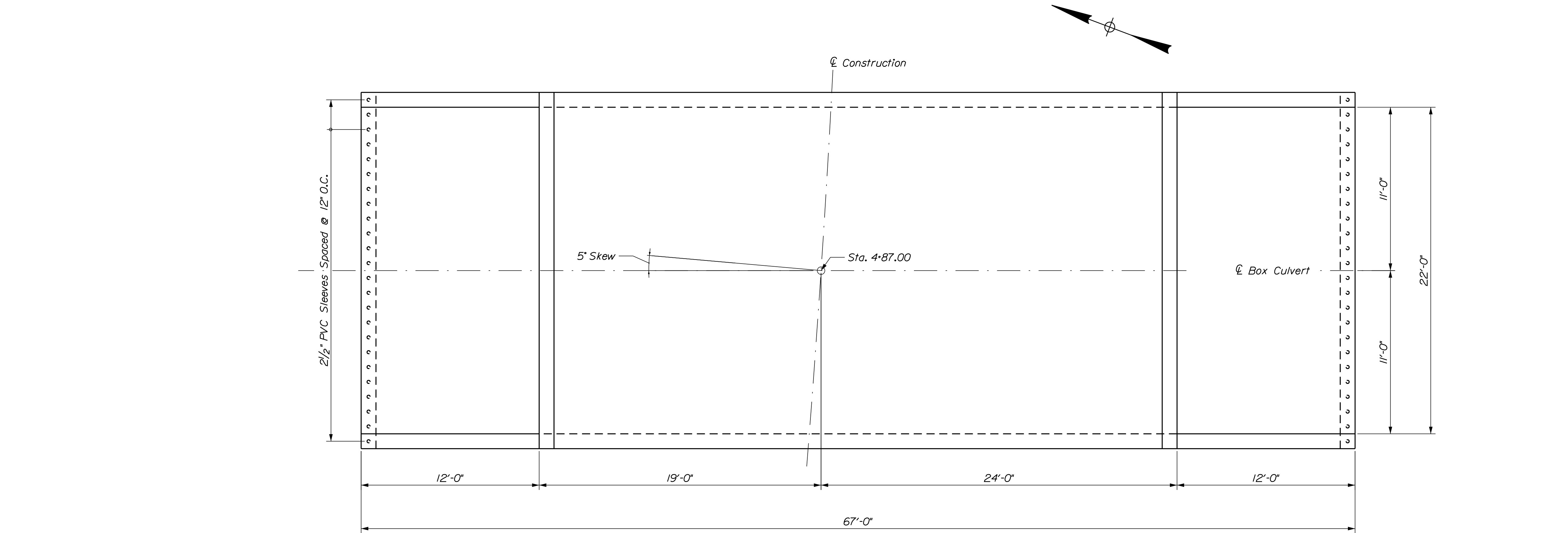


TYPICAL APPROACH SECTION

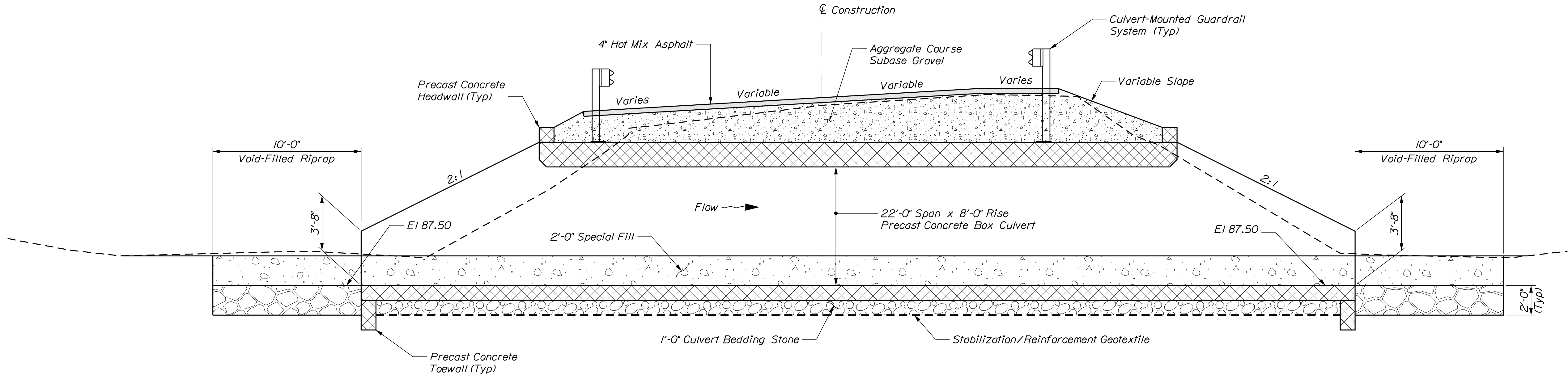


TYPICAL SHOULDER SECTION
(Mill and Overlay Areas)

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE		DATE
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	WIN		DEC 2024
	026158.00		
BRIDGE NO. 5490		BRIDGE PLANS	
JEWETT BRIDGE ALBEE STREAM WHITEFIELD LINCOLN COUNTY		BY	DATE
		PROJ. MANAGER GERALD LIBBY, JR.	
		CHECKED-REVIEWED J. HASBROUCK	
		DESIGNED-DETAILED	
		REVISIONS 1	
TYPICAL SECTIONS		REVISIONS 2	
		REVISIONS 3	
		REVISIONS 4	
		FIELD CHANGES	
SHEET NUMBER		DATE	
2		P.E. NUMBER	
OF 19		DATE	

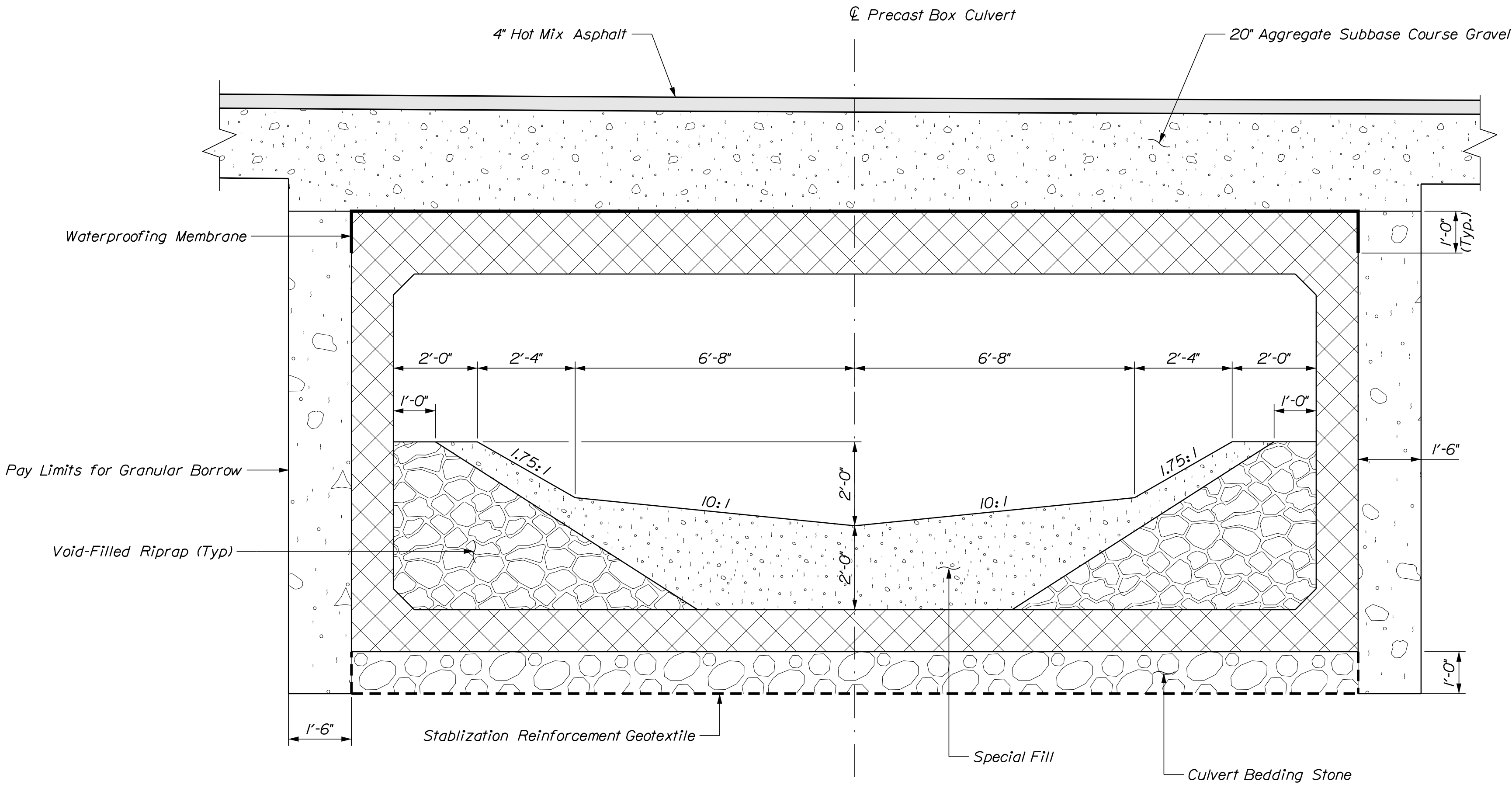


BOX CULVERT PLAN



BOX CULVERT LONGITUDINAL SECTION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION								
2615800								
WIN 026158.00			BRIDGE NO. 5460			BRIDGE PLANS		
JEWETT BRIDGE ALBEE STREAM WHITEFIELD LINCOLN COUNTY			PROJ. MANAGER GERALD LIBBY, JR. BY C. WAKENBOSSE CHECKED-REVIEWED J. HASSELOUCK DESIGN2-DETAILED2 DESIGN3-DETAILED3			DATE OCT. 2024 DEC. 2024 <		



Proposed Box Section
22'-0" Span x 8'-0" Rise

PRECAST CONCRETE BOXES NOTES

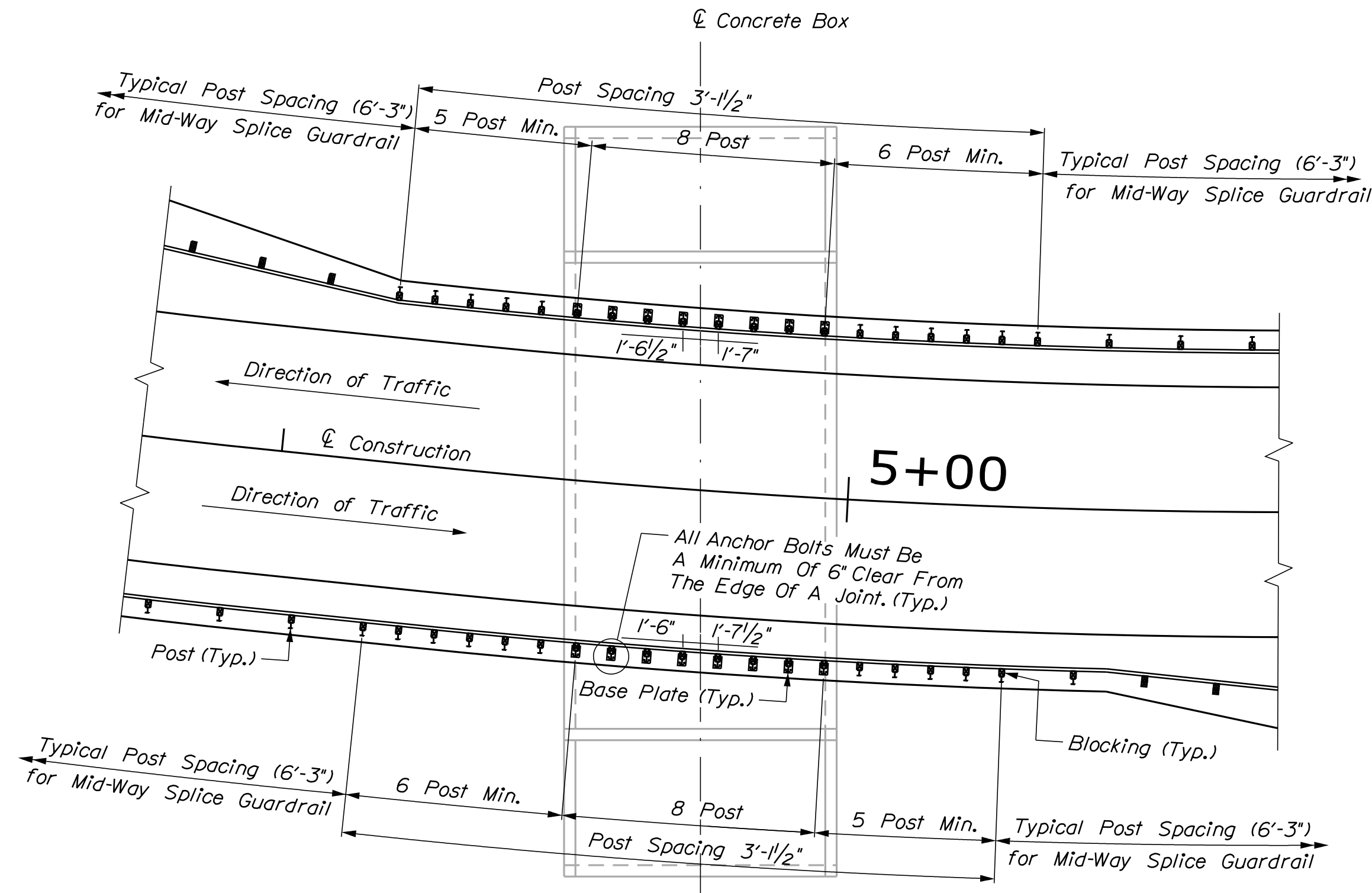
1. In accordance with Standard Specification Subsection 534.04, Precast Structural Concrete, the Contractor shall submit design calculations for the precast structure to the Department for review. The calculations shall demonstrate that the factored bearing pressures at the Strength Limit and Service Limit States do not exceed the factored geotechnical bearing resistances provided in the project geotechnical design report.
2. The contractor shall maintain the excavation so that the box culvert and crushed stone bedding layer are installed in-the-dry. Groundwater should be controlled by pumping from sumps or other dewatering systems selected by the contractor. Cofferdams may be required to divert flow away from the excavation during construction. Where excavation sides are cut back, excavation slope geometries be in accordance with OSHA regulations, or flatter.
3. The native soil subgrade shall be excavated using a smooth-edged bucket and to avoid disturbance of the subgrade. The contractor shall not operate heavy equipment over the excavated subgrade to minimize subgrade disturbance. Limit vibration-induced disturbance to the saturated, sandy subgrade. If the subgrade is disturbed or weakened, the Contractor shall excavate the disturbed material and replace with compacted Granular Borrow - Material for Underwater Backfill to the subgrade level at the contractor's expense.
4. The Stabilization/Reinforcement Geotextile shall be hand-deployed onto the prepared native soil subgrade prior to installing the crushed stone mat. Adjoining sections of the geotextile shall be overlapped by a minimum of 2 feet. The crushed stone shall be placed in maximum 6-inch-thick lifts and each lift compacted with several passes of a walk-behind roller or large plate compactor.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	PROJ. MANAGER GERALD LIBBY, JR				DATE	SIGNATURE
	DESIGN-DETAILED C.VANERBOSSE				OCT. 2024	
	CHECKED-REVIEWED J. HASBROUCK				DEC. 2024	
	DESIGN2-DETAILED2					
	DESIGN3-DETAILED3					
	REVISIONS 1				P.E. NUMBER	
	REVISIONS 2					
	REVISIONS 3					
	REVISIONS 4				DATE	
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BRIDGE PLANS						

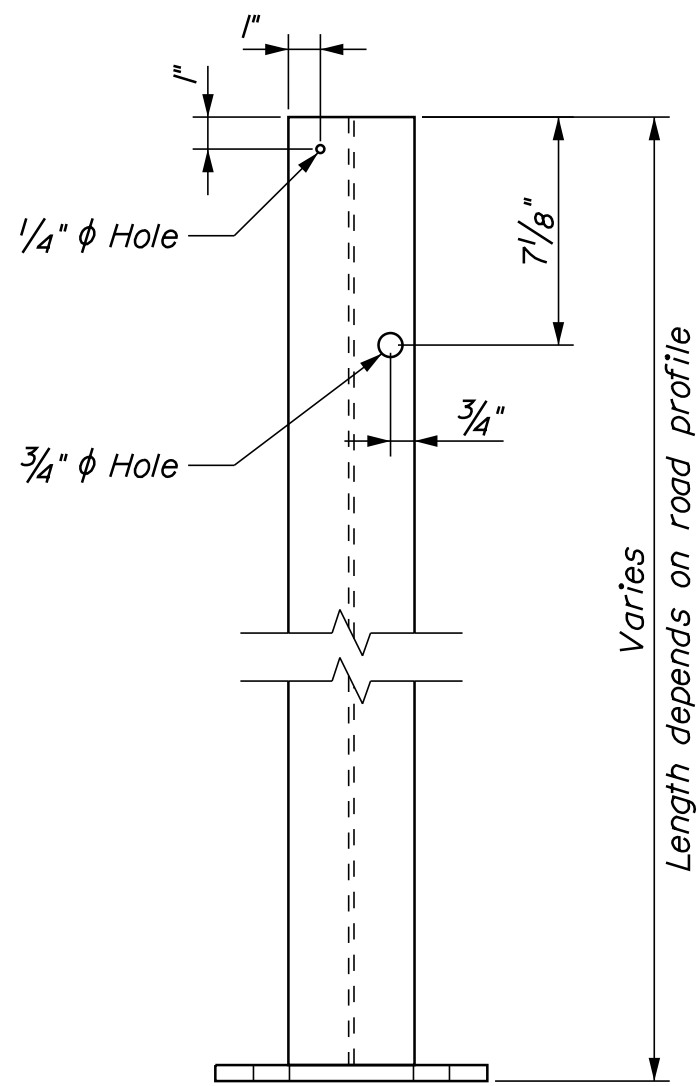
Username: casey.vandenbosscheDate:12/17/2024

Division: BRIDGE

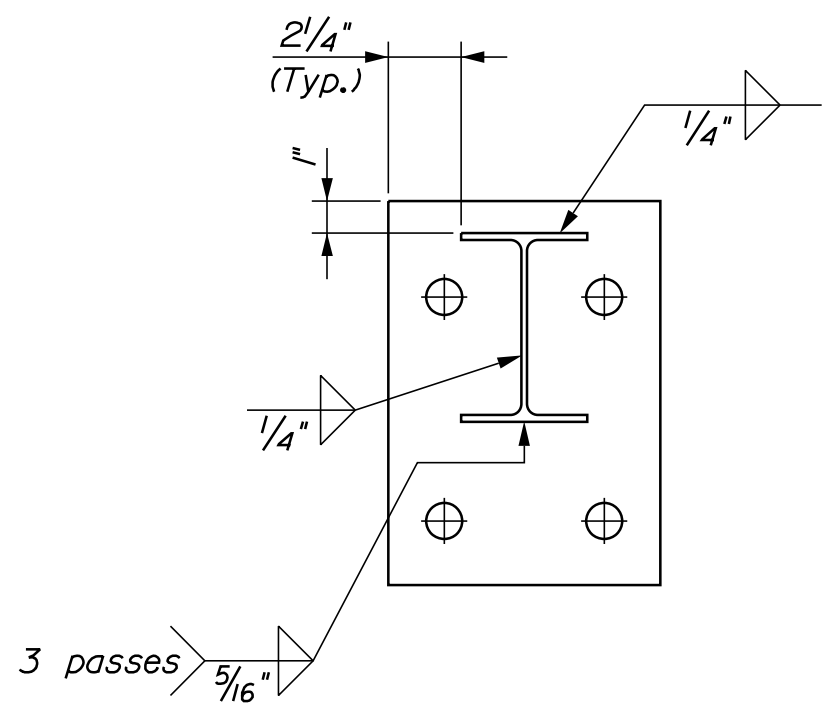
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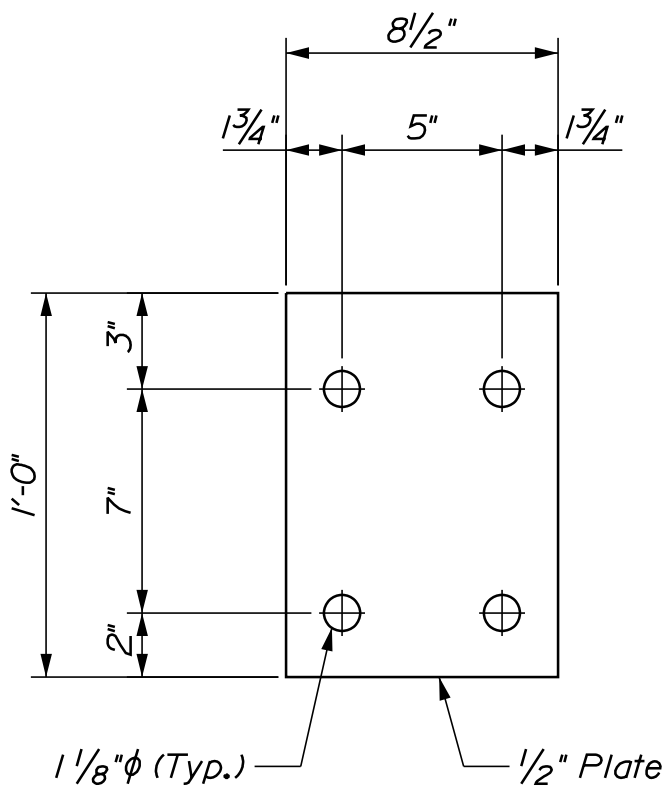
POST SPACING FOR CULVERT MOUNTED



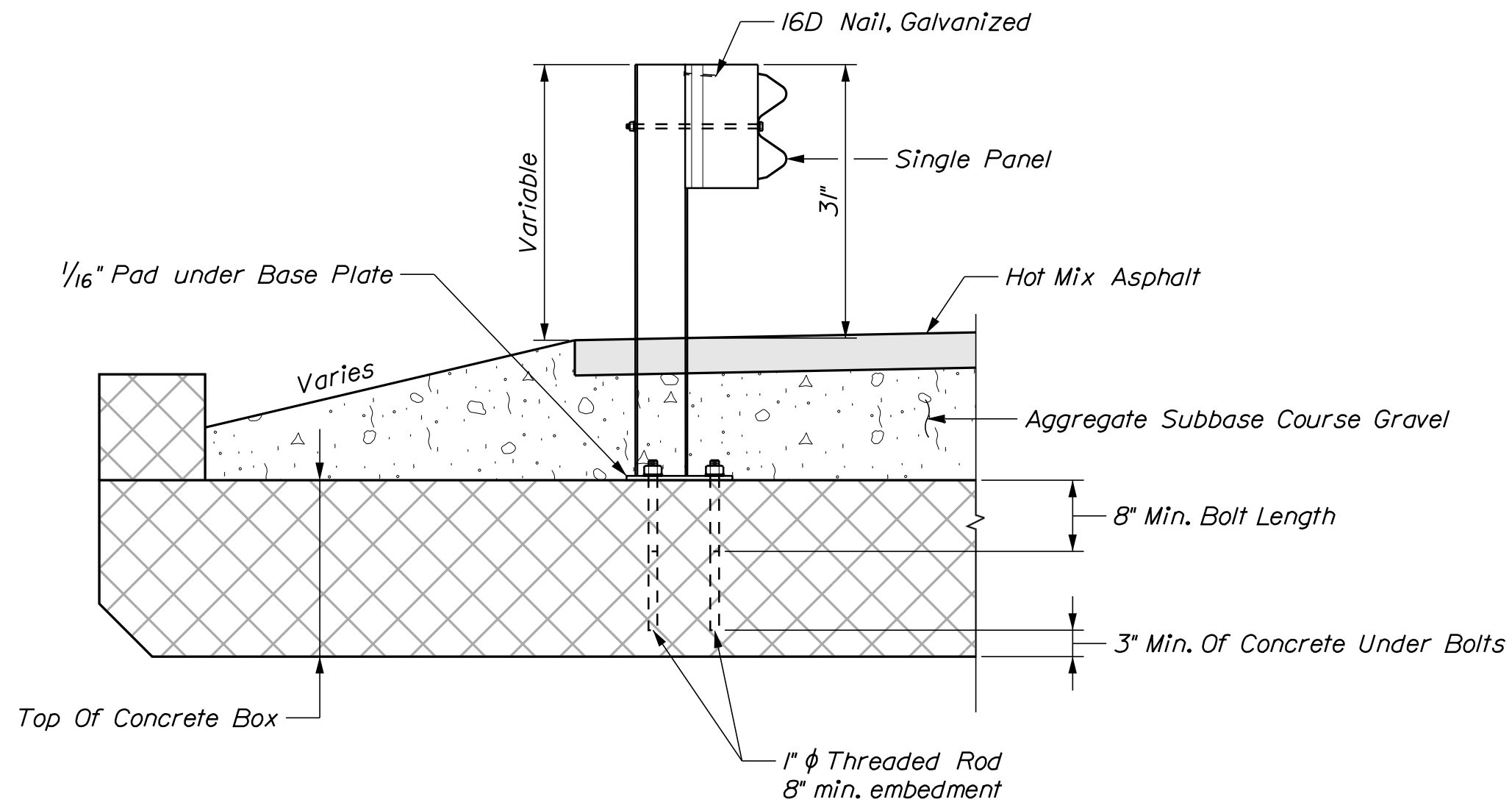
ELEVATION



POST ASSEMBLY



BASE PLATE

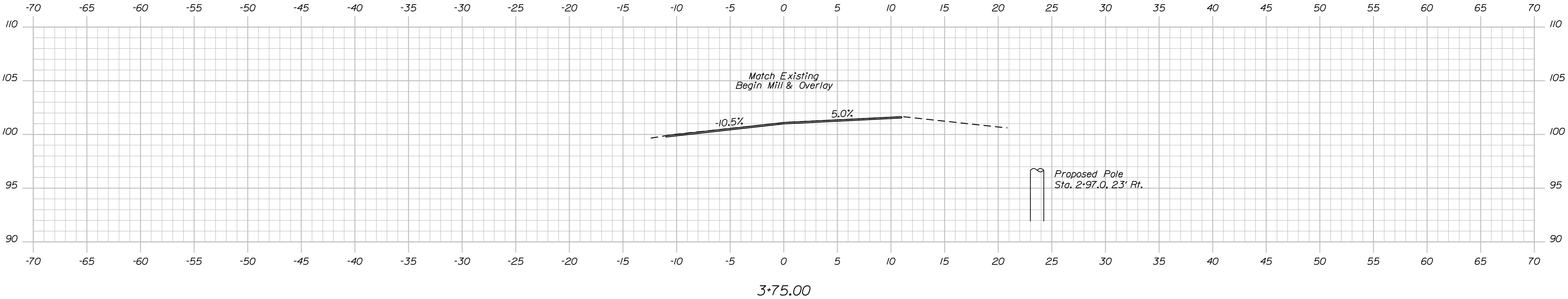
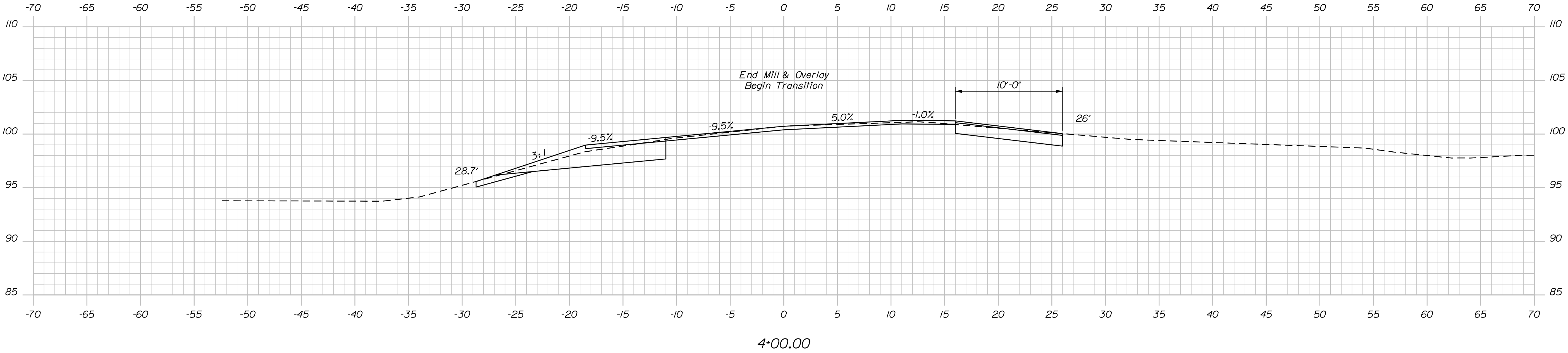


CULVERT-MOUNTED GUARDRAIL SYSTEM

CULVERT MOUNTED GUARDRAIL NOTES

1. Threaded rod shall be ASTM A307 with a minimum strength of 60 ksi.
2. Additional guardrail posts at 3'-1 1/2" spacing may be added beyond what is shown if required for the guardrail splice locations.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2615800		BRIDGE NO. 6490		BRIDGE PLANS	
JEWETT BRIDGE ALBEE STREAM WHITEFIELD LINCOLN COUNTY		SHEET NUMBER 10		OF 19		WIN 026158.00	
PROJ. MANAGER GERALD LIBBY, JR.		BY		DATE		SIGNATURE	
DESIGNED-DETAILED J. VANDENBOSSCHE		MRP		OCT. 2024		P.E. NUMBER	
CHECKED-REVIEWED J. HASBROUCK				DEC. 2024		DATE	
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REVISIONS 2							
REVISIONS 3							
REVISIONS 4							
FIELD CHANGES							

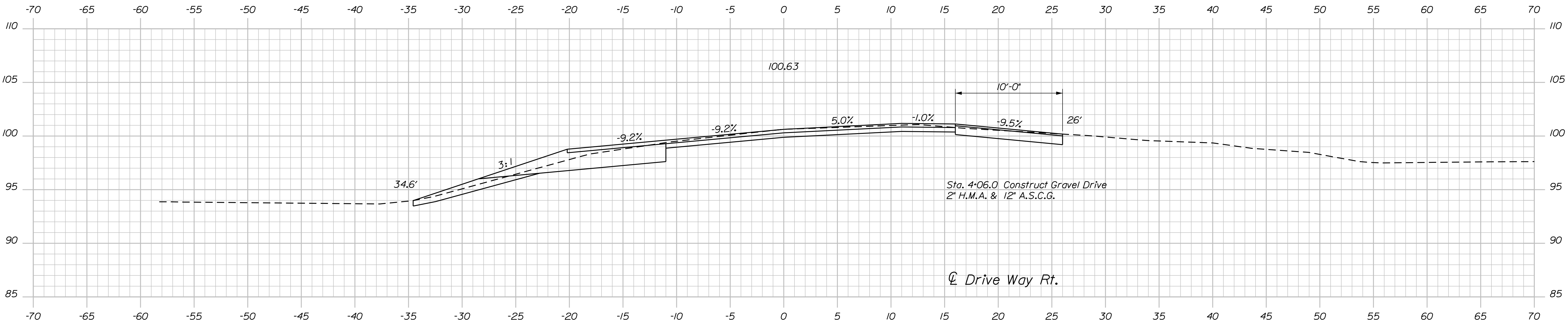
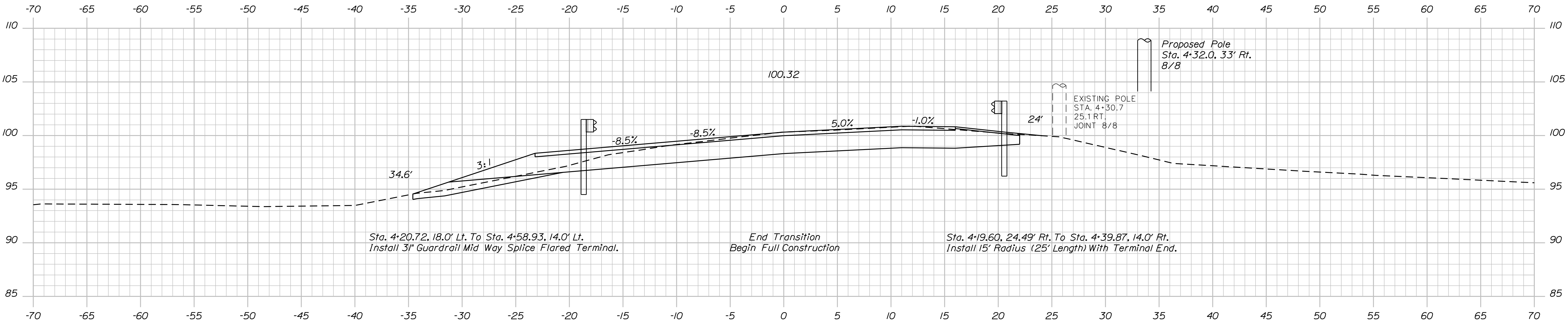
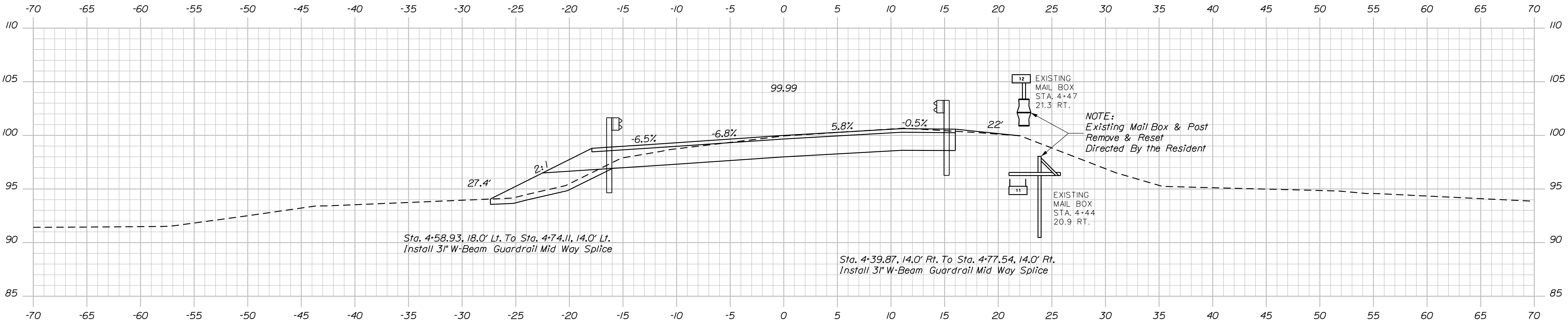


STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
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		WIN	026158.00
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	CHECKED-REVIEWED	J. HASBROUCK	P.E. NUMBER
	DESIGN-DETAILED		DATE
	REVISIONS 1		
	REVISIONS 2		
SHEET NUMBER		11	
		OF 19	

Username: cosey.vanderbosscheDate:12/17/2024

Division: BRIDGE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615800

WIN 026158.00
BRIDGE NO. 6460
BRIDGE PLANS

PROJ. MANAGER
GERALD LIBBY, JR.

CHECKED
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REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4

DATE
OCT 2024
DEC 2024

BY
MRP
J. HASBROUCK

SIGNATURE
P.E. NUMBER
DATE

JEWETT BRIDGE
ALBEE STREAM
WHITEFIELD
LINCOLN COUNTY

CROSS SECTIONS

SHEET NUMBER

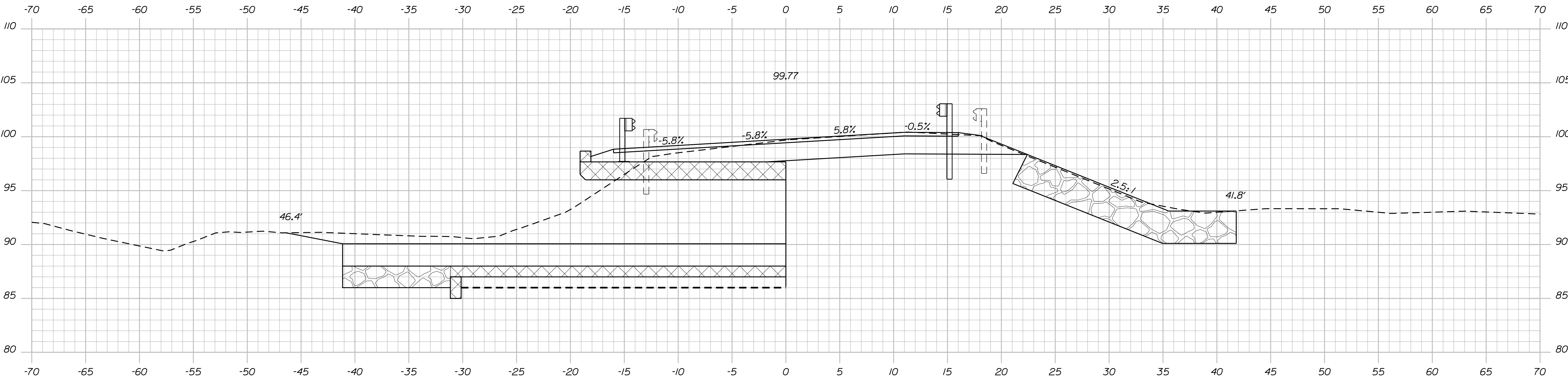
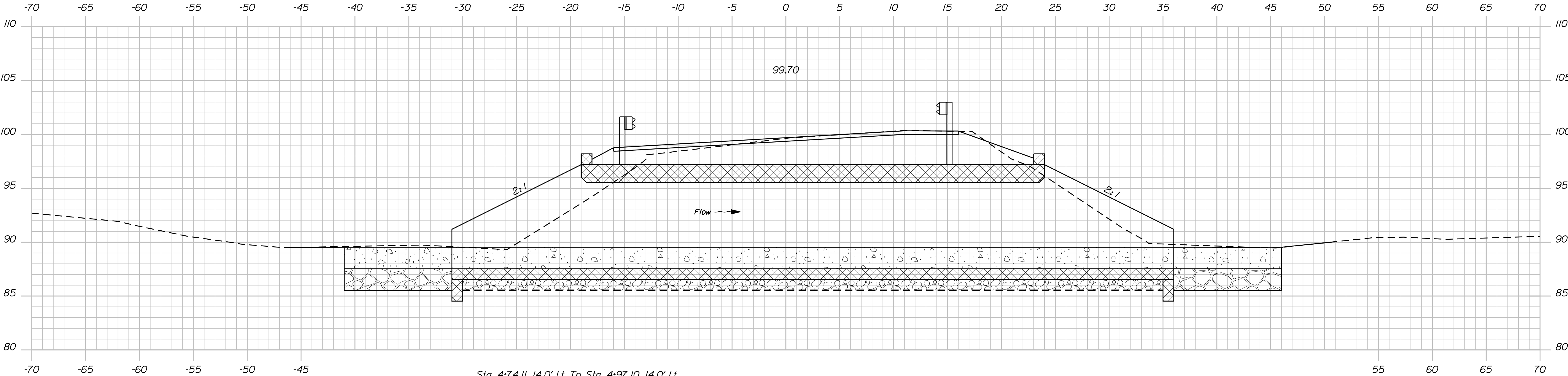
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OF 19

Username: cosey.vonderbossche Date: 12/17/2024

Division: BRIDGE

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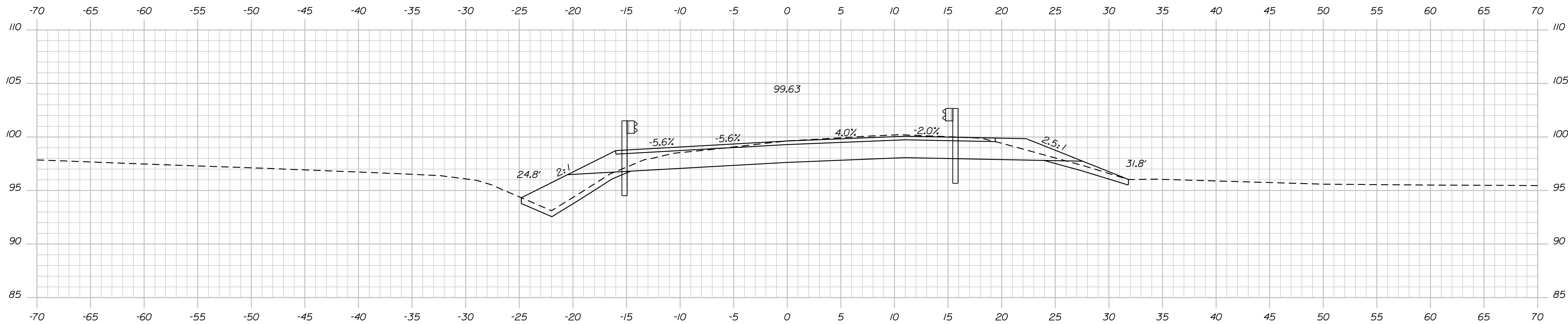


STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
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BRIDGE NO. 5490	BRIDGE PLANS

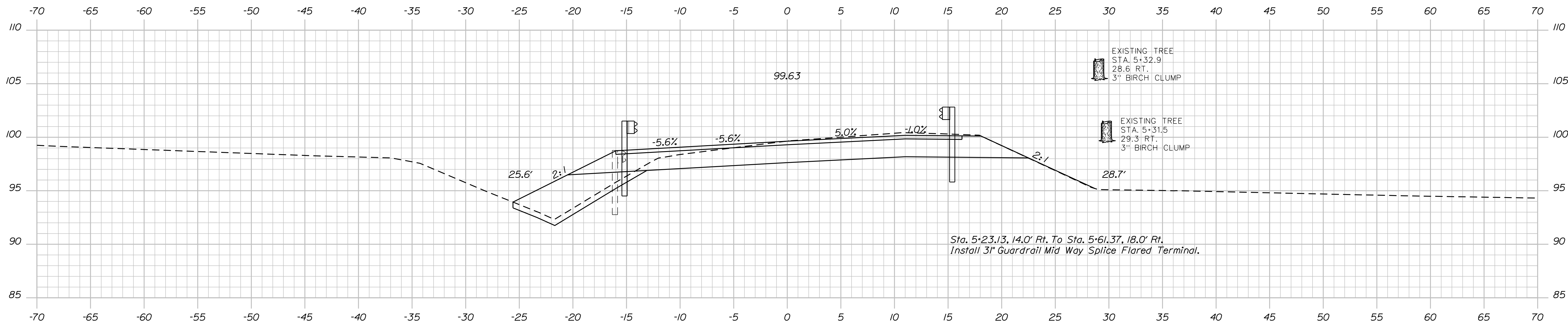
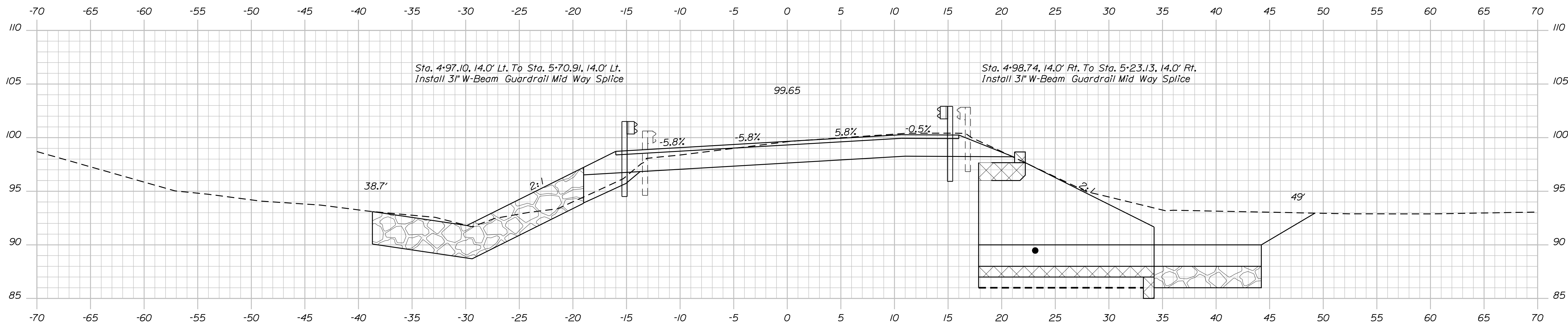
PROJ. MANAGER	GERALD LIBBY, JR.	BY	DATE
CHECKED	REVIEWED	DESIGNED	DATE
MRP	J. HASBROUCK		OCT 2024
DESIGNED	REVIEWED	DATE	DEC 2024
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4
FIELD CHANGES			

JEWETT BRIDGE	LINCOLN COUNTY
ALBEE STREAM	
WHITEFIELD	
CROSS SECTIONS	

SHEET NUMBER
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OF 19



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BRIDGE NO. 5460	WIN	2615800
BRIDGE PLANS		

PROJ. MANAGER	GERALD LBBY, JR	BY	DATE
DESIGN-DETAILED	K VANDERBROUCK	MRP	OCT 2024
CHECKED-REVIEWED	J J HASBROUCK		DEC 2024
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REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

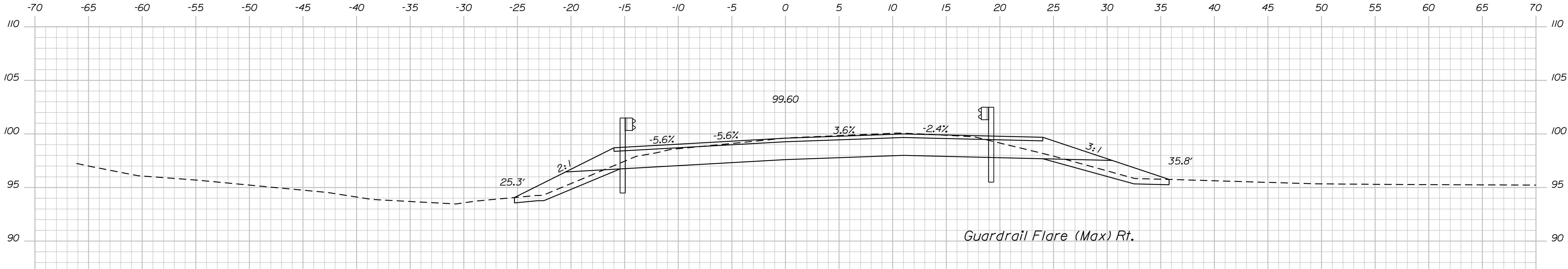
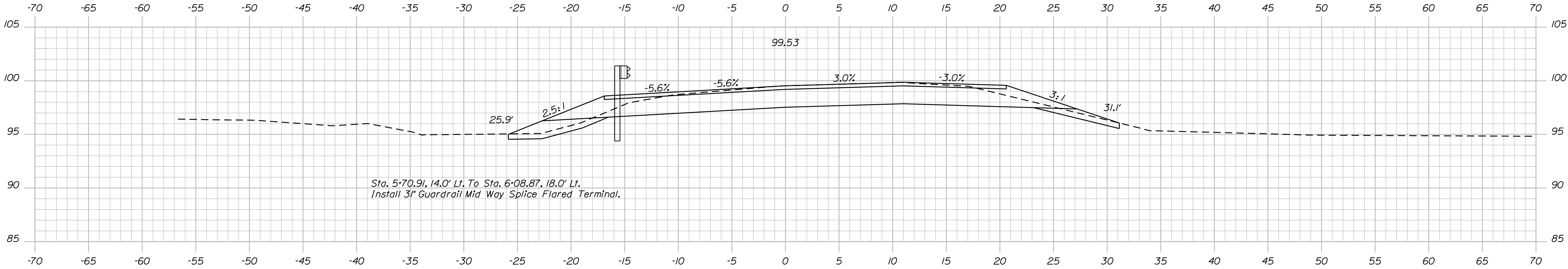
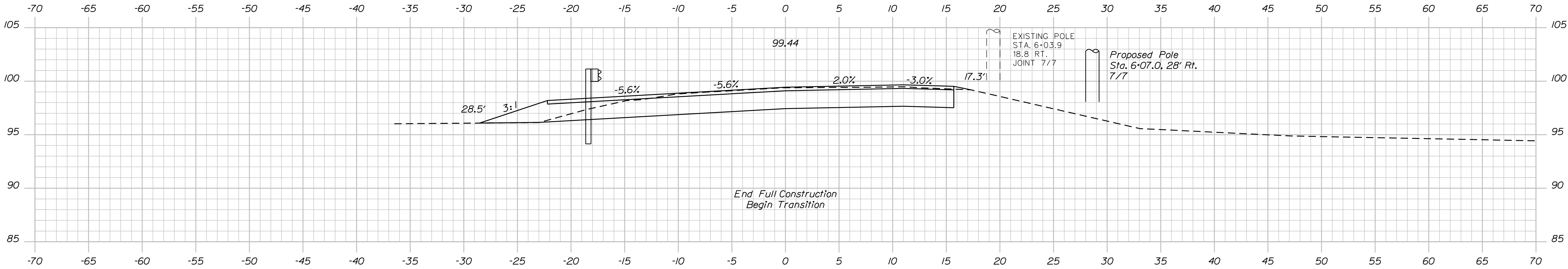
JEWETT BRIDGE	LINCOLN COUNTY
ALBEE STREAM	
WHITEFIELD	
CROSS SECTIONS	

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OF 19

Username: cosey.vanderbosscheDate:12/17/2024

Division: BRIDGE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615800

WIN
026158.00

BRIDGE NO. 6490

BRIDGE PLANS

PROJ. MANAGER	GERALD LIBBY, JR.	BY	DATE
DESIGNED-DETAILED	C. VANDERBOSSCHE	MRP	OCT 2024
CHECKED-REVIEWED	J. HASBROUCK		DEC 2024
DESIGNED-DETAILED			SIGNATURE
DESIGNED-DETAILED			P.E. NUMBER
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

JEWETT BRIDGE
ALBEE STREAM
WHITEFIELD
LINCOLN COUNTY

CROSS SECTIONS

SHEET NUMBER

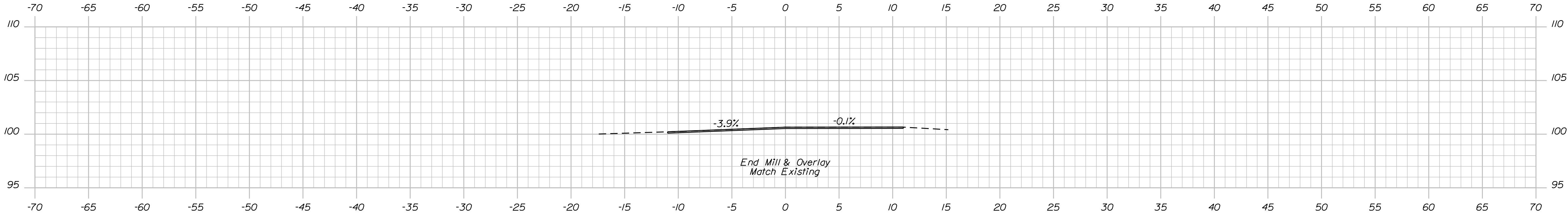
15

OF 19

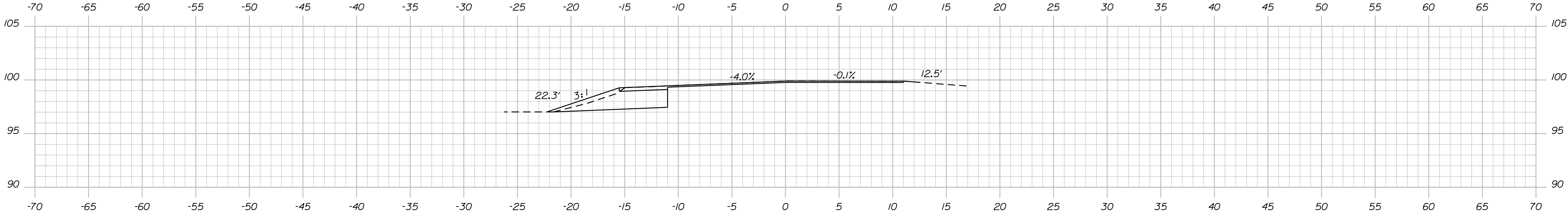
Username: cosey.vonderbossche Date: 12/17/2024

Division: BRIDGE

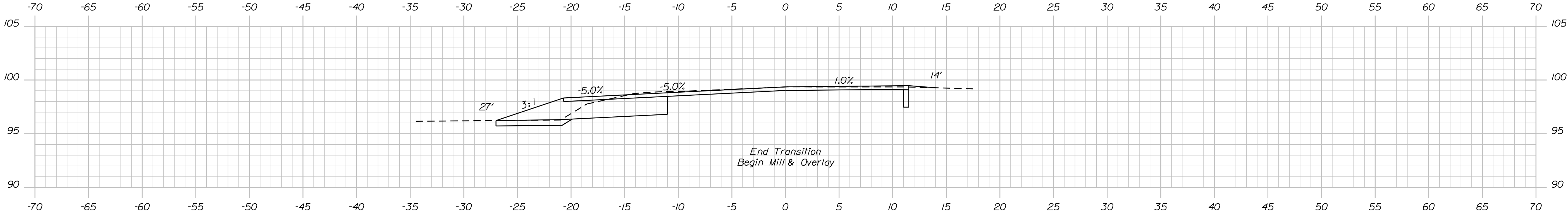
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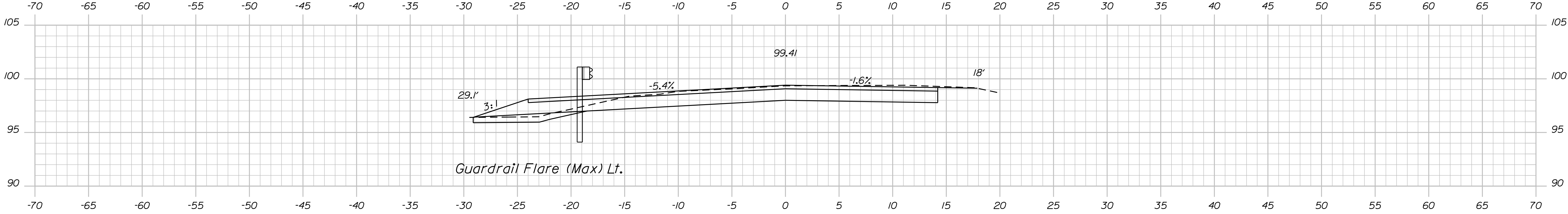
6+75.00



6+50.00



6+25.00



6+08.98

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

2615800

WIN

026158.00

BRIDGE NO. 6490

BRIDGE PLANS

PROJ. MANAGER	GERALD LIBBY, JR.	BY	DATE
DESIGN-DETAILED	C. VANDERBOSCH	MRP	OCT 2024
CHECKED-REVIEWED	J. HASBROUCK		DEC 2024
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

JEWETT BRIDGE

ALBEE STREAM

WHITEFIELD

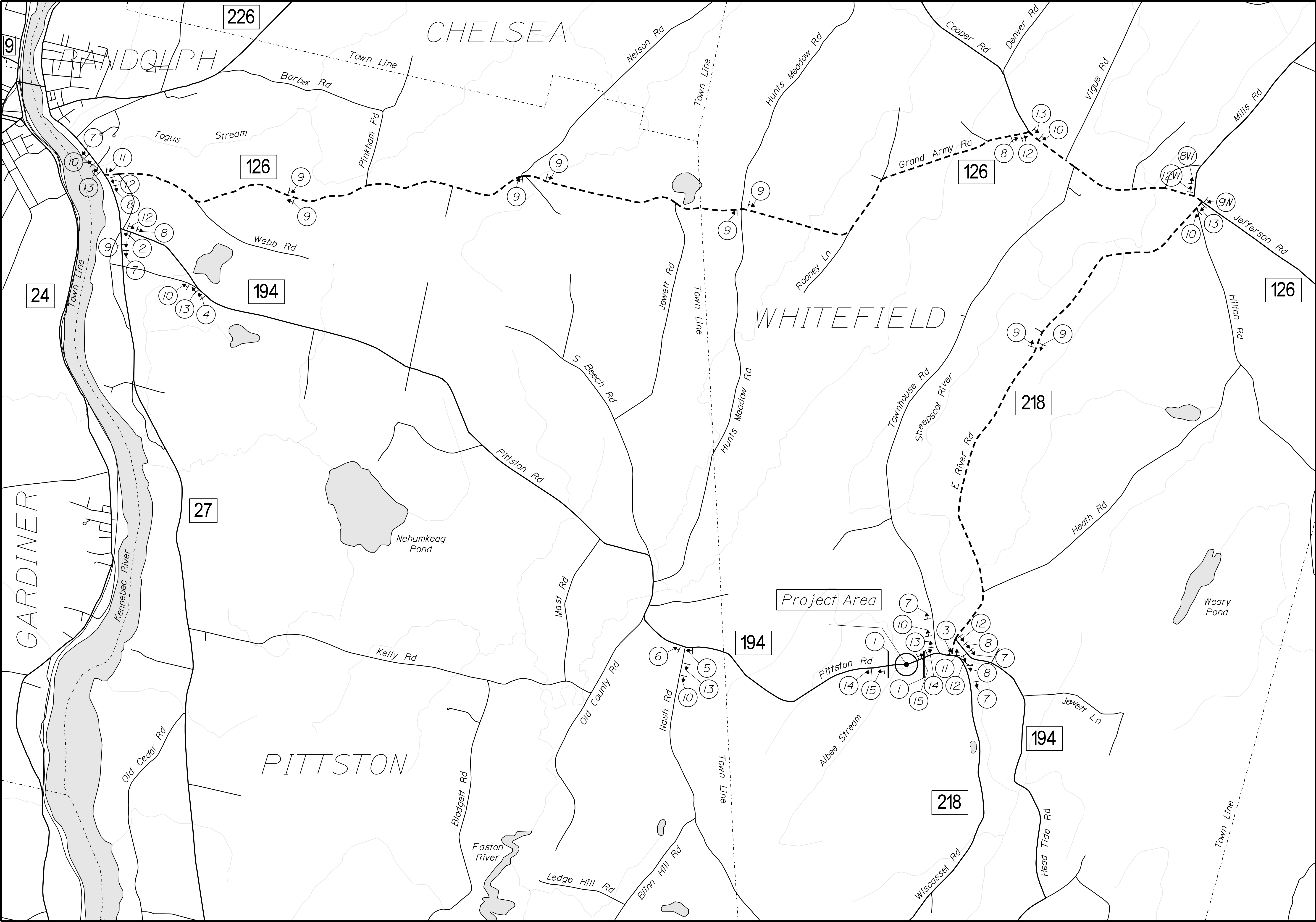
LINCOLN COUNTY

CROSS SECTIONS

SHEET NUMBER

16

OF 19



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2615800
WIN
026158.00
BRIDGE NO. 5450
BRIDGE PLANS

DATE
OCT 2024
DEC 2024

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER GERALD LIBBY, JR.
DESIGNED-Detailed L. HASBROUCK
CHECKED-Reviewed L. HASBROUCK
DESIGNED-Detailed L. HASBROUCK
CHECKED-Reviewed L. HASBROUCK
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

WHITEFIELD
LINCOLN COUNTY
JEWETT BRIDGE
ALBEE STREAM
DETOUR MAP

SHEET NUMBER
17
OF 19

1	2	3	4	5	STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2615800 WIN 026158.00 BRIDGE NO. 5460 BRIDGE PLANS
6	7	8	8W	9	
9W	10	11	12	12W	PROJ. MANAGER GERALD LIBBY, JR. DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES
13	14	15			
JEWETT BRIDGE ALBEE STREAM WHITEFIELD LINCOLN COUNTY DETOUR SIGNS					SHEET NUMBER 18 OF 19

Username: cosey.vondembosche Date: 12/17/2024

Division: BRIDGE

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

