

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

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

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2021) AADT 9,690
Future (2041) AADT 10,660
DHV - % of AADT 15%
Design Hour Volume 1,599
Heavy Trucks (% of AADT) 6%
Heavy Trucks (% of DHV) 2%
Directional Distribution (% of DHV) 62%
18 kip Equivalent P 2.0 218
18 kip Equivalent P 2.5 208
Design Speed (mph) 35

HYDROLOGIC DATA

Drainage Area 3.4 sq mi
Design Discharge (Q50) 285 cfs
Check Discharge (Q100) 333 cfs
Mean Lower Low Water (MLLW) -5.97 ft
Mean Low Water (MLW) -5.59 ft
Mean Tide Level (MTL) -0.31 ft
Mean High Water (MHW) 4.98 ft
Mean Higher High Water (MHHW) 5.4 ft
Highest Astronomical Tide 7.2 ft
2019 Predicted High Tide 7.72 ft

MATERIALS

Concrete:
Curb & Sidewalk Class "LP"
Precast NEXT Beams Class "P"
All Other Class "A"
Reinforcing Steel
Plain ASTM A 615/A 615M, Grade 60
Low-Carbon Chromium Reinforcing ASTM A 1035, Grade 100
Glass Fiber Reinforcing Polymer (GFRP) ASTM D7957
Prestressing Strands AASHTO M 203 (ASTM A416),
Grade 270, Low Relaxation
Steel H-Piles ASTM A 572, Grade 50

BASIC DESIGN STRESSES

Concrete:
Class "A" f 'c = 4,000 psi
Class "LP" f 'c = 5,000 psi
Class "P" f 'c = 8,000 psi
f 'ci = 6,500 psi
Reinforcing:
Plain Reinforcing Steel f y = 60,000 psi
Low-Carbon Chromium Reinforcing f y = 100,000 psi
Glass Fiber Reinforced Polymer
#6 Bar f fu = 100,000 psi
Minimum Elastic Modulus E f = 6,500,000 psi
Minimum Nominal Design Tensile Strain e fu = 1.1%
Prestressing Strand F μ = 270,000 psi
Structural Steel:
Steel H-Piles F y = 50,000 psi

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MOUNT DESERT
HANCOCK COUNTY
BABSON BRIDGE
OVER
KITTEREDGE BROOK
ROUTE 3\198
PROJECT NO. 2351500
PROJECT LENGTH 0.11 mi.
BRIDGE NO. 5244

UTILITIES

Versant Power
Spectrum
Town of Mount Desert
Fairpoint (Northern New England Telephone Operation LLC) dba: Consolidated Communications

MAINTENANCE OF TRAFFIC

Maintain two - way traffic and pedestrian sidewalk using on site special detour.

PROJECT LOCATION:	Route 3/198 over Kitteredge Brook in Mount Desert, 0.09 Miles East of Route 102. Latitude 44°22'9" N Longitude 68°19'44" W
PROGRAM AREA:	Bridge Program
OUTLINE OF WORK:	Bridge Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	<i>[Signature]</i>	10-9-24
COMMISSIONER:		CHIEF ENGINEER:
	<i>[Signature]</i>	<i>[Signature]</i>

STATE OF MAINE DEPARTMENT OF TRANSPORTATION PROJECT NO. 2351500 MOUNT DESERT BABSON BRIDGE KITTEREDGE BROOK ROUTE 3\198 PROJECT LENGTH 0.11 mi. BRIDGE NO. 5244	SIGNATURE <i>[Signature]</i> P.E. NUMBER 10423 DATE 9/26/2024
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PROJECT INFORMATION	PROGRAM	BRIDGE	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
		DENVER SMALL		K. WOOD	KLEINFELDER			

MOUNT DESERT BABSON BRIDGE	TITLE SHEET
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SHEET NUMBER	1
OF 32	

Date:9/25/2024

Username:

Division: BRIDGE

Filename:\BRIDGE\MTA\001_Title.dgn

WIN 023515.00

02351500

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	10	EA
201.24	REMOVING STUMP	15	EA
202.110	REMOVING, STORING, AND RESETTING STRUCTURES	1	EA
202.15	REMOVE EXISTING MANHOLE	2	EA
202.19	REMOVING EXISTING BRIDGE (650 CY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	350	SY
202.61	REMOVE SEWER PIPE	1	LS
203.20	COMMON EXCAVATION	790	CY
203.2318	DISPOSAL OF SPECIAL WASTE	330	T
203.24	COMMON BORROW	25	CY
203.25	GRANULAR BORROW	240	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES PLAN QUANTITY	550	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1150	CY
304.14	AGGREGATE BASE COURSE - TYPE A	5	CY
403.2081	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE (POLYMER MODIFIED)	180	T
403.209	HOT MIX ASPHALT, 9.5 MM NOM. MAX. SIZE (SIDEWALKS, DRIVES, & INCID.)	40	T
403.2131	HOT MIX ASPHALT, 12.5 MM NOM. MAX. SIZE (BASE AND INTER. POL. MOD.)	340	T
409.15	BITUMINOUS TACK COAT APPLIED	220	GAL
461.131	TEMPORARY PAVEMENT	380	T
501.231	DYNAMIC LOADING TEST	1	EA
501.46	STEEL H-BEAM PILES 73 LBS/FT, DELIVERED	325	LF
501.461	STEEL H-BEAM PILES 73 LBS/FT, IN PLACE	150	LF
501.492	STEEL W-BEAM, DELIVERED & INSTALLED	97	LF
501.502	ROCK SOCKETED H-PILES	125	LF
501.804	DRILLING EQUIPMENT MOBILIZATION	1	LS
501.90	PILE TIPS	5	EA
501.92	PILE DRIVING EQUIPMENT MOBILIZATION	1	LS
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS (101 CY)	1	LS
502.31	STRUCTURAL CONCRETE APPROACH SLAB (24 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (18 CY)	1	LS
502.608	STRUCTURAL CONCRETE, MISC. BUILDING FOUNDATION	1	LS
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	4200	LB
503.13	REINFORCING STEEL, PLACING	4200	LB
503.19	LOW-CARBON CHROMIUM REINFORCEMENT, FABRICATED AND DELIVERED	13600	LB
503.20	LOW-CARBON CHROMIUM REINFORCEMENT, PLACING	13600	LB
507.08161	STEEL APPROACH RAILING, 4 BAR	2	EA
507.0821	STEEL BRIDGE RAILING, 3 BAR (59 LF)	1	LS
507.0822	STEEL APPROACH RAILING, 3 BAR	2	EA
507.0831	STEEL BRIDGE RAILING, 4 BAR (59 LF)	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (245 SY)	1	LS
510.12	SPECIAL DETOUR, 22 FOOT ROADWAY WIDTH VEHIC. & PED. TRAFFIC SEP.	1	LS
511.07	COFFERDAM: ABUTMENT NO. 1	1	LS
511.07	COFFERDAM: ABUTMENT NO. 2	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (500 SY)	1	LS
526.301	PORTABLE CONCRETE BARRIER TYPE 1 (200 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	4	UN
531.511	BRIDGE SUPERSTRUCTURE - DETAIL BUILD	1	LS
603.169	15" CULVERT PIPE OPTION III	70	LF
603.179	18" CULVERT PIPE OPTION III	113	LF
604.152	48" MANHOLE	4	EA
604.252	CATCH BASIN TYPE A5-C	4	EA
605.09	6" UNDERDRAIN TYPE B	340	LF
605.11	12" UNDERDRAIN TYPE C	130	LF
606.1301	31" W-BEAM GUARDRAIL - MID-WAY SPLICE - SINGLE FACED	325	LF
606.1303	31" W-BEAM GUARDRAIL - MID-WAY SPLICE - 15' RADIUS AND LESS	50	LF
606.1305	31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL	1	EA
606.1721	BRIDGE TRANSITION - TYPE 1	4	EA
606.265	TERMINAL END-SINGLE RAIL - GALVANIZED STEEL	3	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
607.1601	TEMPORARY CHAIN LINK FENCE - 4 FT	75	LF
607.24	REMOVE AND RESET FENCE	40	LF
608.26	CURB RAMP DETECTIBLE WARNING FIELD	24	SF
608.62	GENERATOR PAD	1	LS
609.11	VERTICAL CURB TYPE 1	413	LF
609.23	TERMINAL CURB TYPE 1	1	EA
609.234	TERMINAL CURB TYPE 1 - 4 FOOT	1	EA
609.238	TERMINAL CURB TYPE 1 - 8 FOOT	4	EA
610.08	PLAIN RIPRAP	50	CY
610.16	HEAVY RIPRAP	1200	CY
610.18	STONE DITCH PROTECTION	25	CY
613.319	EROSION CONTROL BLANKET	60	SY
615.07	LOAM	52	CY
618.13	SEEDING METHOD NUMBER 1	3	UN
618.14	SEEDING METHOD NUMBER 2	6	UN
619.12	MULCH	8	UN
619.14	EROSION CONTROL MIX	110	CY
620.58	EROSION CONTROL GEOTEXTILE	1670	SY
620.66	DRAINAGE GEOCOMPOSITE	82	SY
626.421	24-INCH DIAMETER FOUNDATION	14	LF
627.733	4 INCH WHITE OR YELLOW PAVEMENT MARKING LINE	2300	LF
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	96	SF

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
627.77	REMOVE EXISTING PAVEMENT MARKING	240	SF
627.78	TEMPORARY 4" PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	1450	LF
629.05	HAND LABOR STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.14	GRADER (INCLUDING OPERATOR)	20	HR
631.15	ROLLER, EARTH AND BASE (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
639.18	FIELD OFFICE - TYPE A	1	EA
643.6005	SOLAR POWERED LED SCHOOL ZONE BEACON - REMOVE AND REST	1	EA
643.62	RECTANGULAR RAPID FLASHING BEACON	1	EA
652.312	TYPE III BARRICADES	6	EA
652.33	DRUM	50	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	350	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGERS	800	HR
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	3	EA
655.01	GENERATOR SYSTEM	1	LS
655.201	ELECTRICAL WORK	1	LS
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS
801.03	TEST PITS	2	EA
801.071	TEMPORARY SEWER BYPASS	1	LS
806.50	CONTROL PANEL AND RELATED ITEMS	1	EA
810.20	BURIED 8" SANITARY SEWER	190	LF
812.163	MODIFY SEWER MANHOLE, ADJUST FRAME & COVER	1	EA
827.331	TRENCH INSULATION 2" RIGID	400	SY
827.3641	REMOVE AND DISPOSE ASBESTOS CEMENT PIPE	40	LF
830.13	SEWER MAIN BRIDGE CROSSING (97 LF)	1	LS
832.07	OWNER'S TESTING ALLOWANCE	1	LS
841.47	STEEL BOLLARD	5	EA

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

02351500

WIN
023515.00

BRIDGE NO. 5244

9/25/2024

4/2024

4/2024

BY K. WOOD

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DESIGN-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

PROJ. MANAGER

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

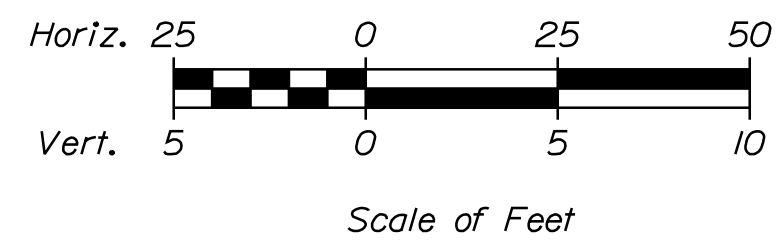
FIELD CHANGES

DATE

4/20

1. For easements, construction limits, and right of way lines, refer to the Right of Way Map.
2. 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.
3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
4. 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.
5. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
6. 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.
7. All embankment material, except as otherwise shown, placed below EL. 6.0 shall be Granular Borrow meeting the requirements of Standard Specifications Subsection 703.19, Granular Borrow, for Material for Underwater Backfill.
8. Place riprap on sideslopes as shown on cross sections.
9. Construct the riprap shelf at each abutment at EL. 8.0.
10. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
11. 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.
12. Place a 24 inch wide strip of Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
13. Guardrail posts as shown in the Standard Details shall be modified from the indicated length of 7 feet to a length of 8 feet with an embedment of 5.25 feet. Payment will be considered incidental to the guardrail pay items.
14. A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
15. 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.
16. Protective Coating for Concrete Surfaces shall be applied to the following areas:
 - All exposed surfaces of concrete curbs and sidewalks,
 - All exposed surfaces of NEXT Beams,
 - Fascias down to the drip notch,
 - Top of abutment backwalls and wingwalls, and
 - To one foot below the ground on wingwalls against earth.
17. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>
18. No plans are available for the existing bridge.
19. 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.
20. The project geotechnical report titled: Geotechnical Design Report For: Replacement of Babson Bridge Over Kitteredige Brook (Bridge No. 5244) Route 3/198, WIN 23515.00 Mount Desert, Hancock County, Maine August 9, 2024 may be accessed at the MaineDOT web address.
21. 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 boring locations.
22. Parcel(s) #1, #2, #3, #4 and #5 are held in reserve as indicated in Special Provision 104 General Rights and Responsibilities (Reserved Limits).

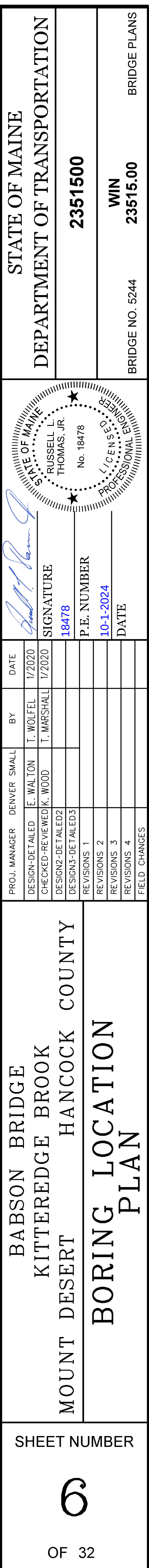
SHEET NUMBER 3 OF 32	BABSON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY				PROJ. MANAGER BENJER SMALL		BY K. WOOD	DATE 4/2024	STATE OF MAINE DEPARTMENT OF TRANSPORTATION 02351500 WIN 023515.00 BRIDGE NO. 5244 BRIDGE PLANS
	GENERAL CONSTRUCTION				DESIGN-Detailed		K. WOOD	4/2024	
	NOTES				CHECKED-REVIEWED		M. KELLY	4/2024	
					DESIGN2-Detailed				
					DESIGN3-Detailed				
					REVISIONS 1				
					REVISIONS 2				
					REVISIONS 3				
					REVISIONS 4				
					FIELD CHANGES				



**BABSON BRIDGE
KITTEREDGE BROOK
MOUNT DESERT HANCO
PROFILE**

OF 32

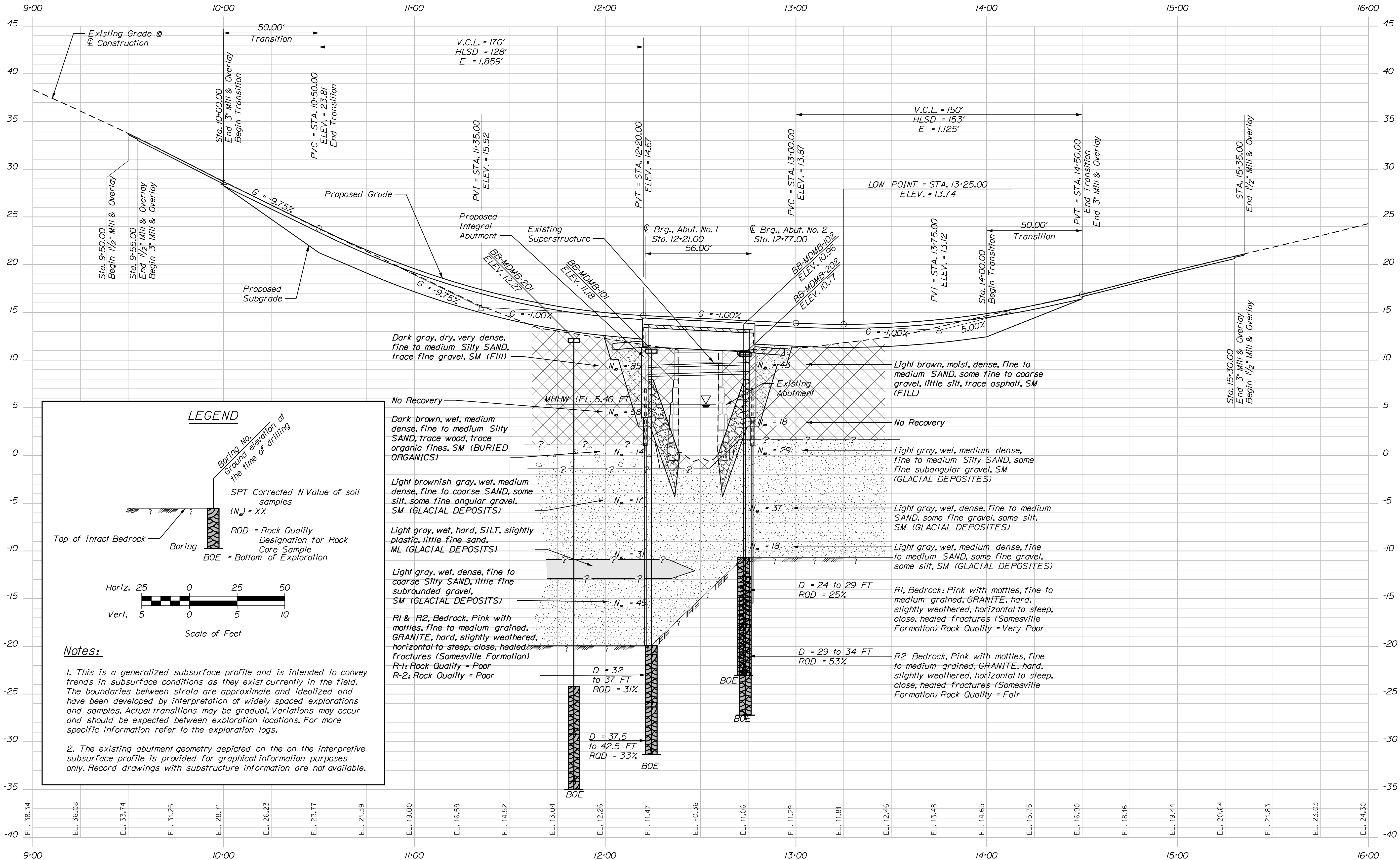
PROJ. MANAGER	BY	DATE
DESIGN-OF-TALED	C. JONES	12/20/22
CHECKED-REVIEWED/K. WOOD	S. HUBBARD	12/20/22
DESIGN-OF-TALED/2		
DESIGNS-OF-TALEDS		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		



Date:9/25/2024

Username:

Filename: ... \007_Interpretive Subsurface Profile.dwgDivision: BRIDGE



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2351500

PROJ. MANAGER
DENVER SMALL
E. WALTON

CHECKED-REVIEWED
K. WOOD

DESIGN-DETAILED
DESIGN-DETAILED

REVISIONS
1
2
3
4

FIELD CHANGES

DATE
12/20/20
12/20/20

BY
T. WOLFFEL
T. MARSHALL

SIGNATURE
THOMAS, JR.
No. 18478

P.E. NUMBER
18478

DATE
10-1-2024

BRIDGE NO. 5244
WIN
23515.00
BRIDGE PLANS

BABSON BRIDGE
KITTEREDGE BROOK
MOUNT DESERT
HANCOCK COUNTY

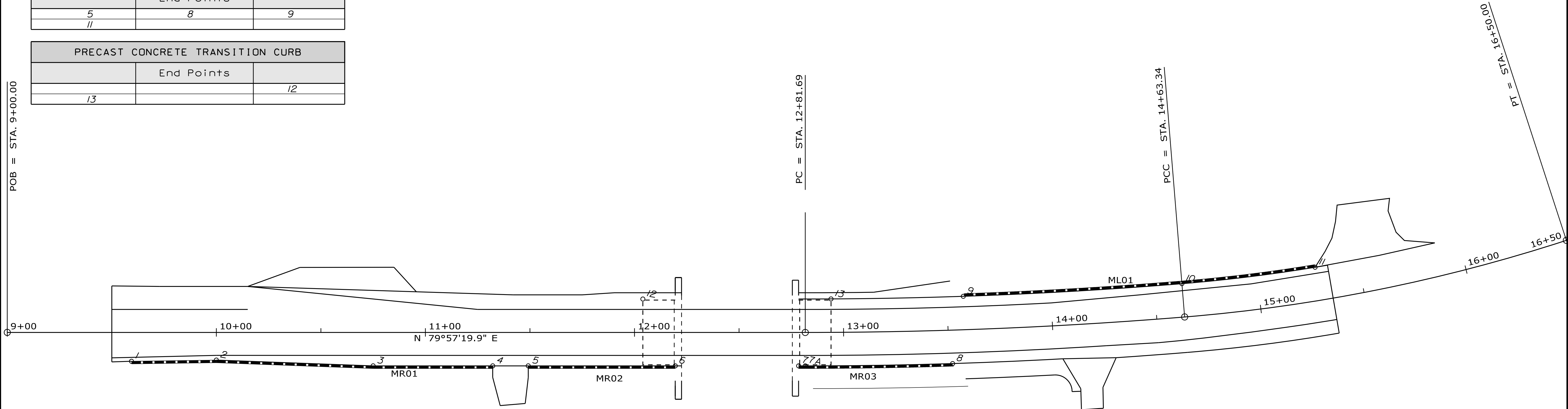
INTERPRETIVE
SUBSURFACE PROFILE

SHEET NUMBER
7
OF 32

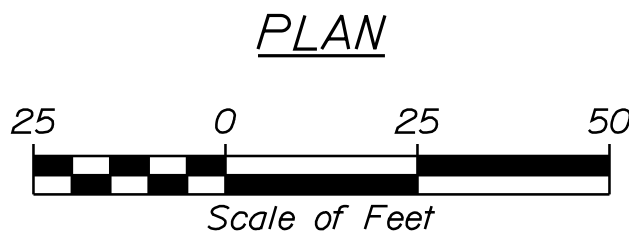
Maine Department of Transportation Soil/Rock Exploration Log US. CUSTOMARY UNITS		Project: Babson Bridge (#5244) over Kitteredge Brook Sound Drive Mount Desert, ME		Boring No.: BB-MDMB-101 WIN: 23515.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Operator: Mike Porter	Datum: NAVD88	Sampler: SPT/Spill spoon																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Logged By: M. Cheo	Rig Type: Mobile Drill Truck-Mounted	Hammer WL/Fall: 140lbs/30"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date Start/Finish: 5/13/2019 - 5/14/2019	Drilling Method: Drive and Wash/Coring	Core Barrel: NG (2" OD)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Boring Location: STA 1212.08 E 8.07941 N 195600.9542 F 2177864.8225	Casing ID/OD: HW-4"	Water Level: * 15'-9" at 8:30 AM on 5/28/22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Hammer Efficiency Factor: 0.923 Definitions: D = Split Spoon Sample MS = Unsuccessful Split Spoon Sample Attempt U = Thin Wall Tube Sample MU = Unsuccessful Thin Wall Tube Sample Attempt V = Field Vane Shear Test, PP = Pocket Penetrometer WSP = Weight of Rods or Casing WSP = Weight of One Person S = Rock Core Sample SSA = Solid Stem Auger NSA = Hollow Stem Auger RC = Rotary Core WSP = Weight of Rods or Casing WSP = Weight of One Person S _u = Push/Berried Field Vane Undrained Shear Strength (psf) S _u (_{lab}) = Lab Vane Undrained Shear Strength (psf) U _q = Unconfined Compressive Strength (psi) N = Uncorrected - Raw Field SPT N-value Hammer Efficiency Factor = Rig Specific Actual Calibration Value N ₆₀ = SPT N-uncorrected Corrected for Hammer Efficiency N ₆₀ = (Hammer Efficiency Factor)/60(N _{uncorrected}) L ₁ = Pocket Torque Shear Strength (psf) WC = Water Content, percent LI = Liquid Limit PL = Plastic Limit P _h = Plasticity Index G = Grain Size Analysis C = Consolidation Test																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
<table border="1"> <thead> <tr> <th rowspan="2">Depth (ft.)</th> <th colspan="6">Sample Information</th> <th rowspan="2">Visual Description and Remarks</th> <th rowspan="2">Laboratory Testing Results/AASHTO and Unified Class</th> </tr> <tr> <th>Sample No.</th> <th>Depth (ft.)</th> <th>Depth (ft.)</th> <th>Depth (ft.)</th> <th>Depth (ft.)</th> <th>Depth (ft.)</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>24/10</td> <td>1.00 - 3.00</td> <td>23/11/44/27</td> <td>55</td> <td>85</td> <td>SPN HW</td> <td>6.5" BITUMINOUS PAVEMENT</td> <td>0.5</td> </tr> <tr> <td>20</td> <td>24/10</td> <td>5.00 - 7.00</td> <td>14/29/9/12</td> <td>38</td> <td>58</td> <td></td> <td>2D: No Recovery Drilling action was slow from 6 to 10 feet. Observed rock fragments in the drill water due to possible cobbles and boulders.</td> <td></td> </tr> <tr> <td>30</td> <td>24/6</td> <td>10.00 - 12.00</td> <td>9/19/4/6</td> <td>9</td> <td>14</td> <td></td> <td>3D: Dark brown, wet, medium dense, fine to medium Silty SAND, trace wood, trace organic fines, SM (BURED ORGANICS)</td> <td>-10.0</td> </tr> <tr> <td>R1</td> <td>24/24</td> <td>12.50 - 14.50</td> <td></td> <td></td> <td></td> <td>NO-2</td> <td>R1: Boulder, min/ft: 2.0, 1.8 Switched to 3" casing at 14.5 feet and roller bit to 15 feet and sampled</td> <td>-12.5</td> </tr> <tr> <td>40</td> <td>24/6</td> <td>15.00 - 17.00</td> <td>6/4/7/16</td> <td>11</td> <td>17</td> <td>SPN HW</td> <td>4D: Light brownish gray, wet, medium dense, fine to coarse SAND, some silt, some fine angular gravel, SM (GLACIAL DEPOSITS)</td> <td>-15.0</td> </tr> <tr> <td>50</td> <td>24/77</td> <td>21.00 - 23.00</td> <td>17/10/10/15</td> <td>20</td> <td>31</td> <td></td> <td>Encountered possible cobbles at 20 feet. Spin casing down to 21 feet and sampled at 21 feet. 5D - Top 12": Similar to 4D, except dense (GLACIAL DEPOSITS)</td> <td>-22.0</td> </tr> <tr> <td>60</td> <td>24/12</td> <td>26.00 - 28.00</td> <td>5/12/17/20</td> <td>29</td> <td>45</td> <td></td> <td>Bottom 5": Light gray, wet, hard, SILT, slightly plastic, little fine sand, ML (GLACIAL DEPOSITS)</td> <td>-24.0</td> </tr> <tr> <td>70</td> <td>24/12</td> <td>31.00 - 33.00</td> <td></td> <td></td> <td></td> <td></td> <td>Assumed lithology change</td> <td>-24.0</td> </tr> <tr> <td>80</td> <td>24/12</td> <td>36.00 - 38.00</td> <td></td> <td></td> <td></td> <td></td> <td>6D: Light gray, wet, dense, fine to coarse Silty SAND, little fine subrounded gravel, SM (GLACIAL DEPOSITS)</td> <td>-24.0</td> </tr> <tr> <td>90</td> <td>24/12</td> <td>41.00 - 43.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>100</td> <td>24/12</td> <td>46.00 - 48.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>110</td> <td>24/12</td> <td>51.00 - 53.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>120</td> <td>24/12</td> <td>56.00 - 58.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>130</td> <td>24/12</td> <td>61.00 - 63.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>140</td> <td>24/12</td> <td>66.00 - 68.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>150</td> <td>24/12</td> <td>71.00 - 73.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>160</td> <td>24/12</td> <td>76.00 - 78.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>170</td> <td>24/12</td> <td>81.00 - 83.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>180</td> <td>24/12</td> <td>86.00 - 88.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>190</td> <td>24/12</td> <td>91.00 - 93.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>200</td> <td>24/12</td> <td>96.00 - 98.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>210</td> <td>24/12</td> <td>101.00 - 103.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>220</td> <td>24/12</td> <td>106.00 - 108.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>230</td> <td>24/12</td> <td>111.00 - 113.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>240</td> <td>24/12</td> <td>116.00 - 118.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>250</td> <td>24/12</td> <td>121.00 - 123.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>260</td> <td>24/12</td> <td>126.00 - 128.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>270</td> <td>24/12</td> <td>131.00 - 133.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>280</td> <td>24/12</td> <td>136.00 - 138.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>290</td> <td>24/12</td> <td>141.00 - 143.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>300</td> <td>24/12</td> <td>146.00 - 148.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>310</td> <td>24/12</td> <td>151.00 - 153.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>320</td> <td>24/12</td> <td>156.00 - 158.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>330</td> <td>24/12</td> <td>161.00 - 163.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>340</td> <td>24/12</td> <td>166.00 - 168.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>350</td> <td>24/12</td> <td>171.00 - 173.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>360</td> <td>24/12</td> <td>176.00 - 178.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>370</td> <td>24/12</td> <td>181.00 - 183.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>380</td> <td>24/12</td> <td>186.00 - 188.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>390</td> <td>24/12</td> <td>191.00 - 193.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>400</td> <td>24/12</td> <td>196.00 - 198.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>410</td> <td>24/12</td> <td>201.00 - 203.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>420</td> <td>24/12</td> <td>206.00 - 208.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>430</td> <td>24/12</td> <td>211.00 - 213.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>440</td> <td>24/12</td> <td>216.00 - 218.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>450</td> <td>24/12</td> <td>221.00 - 223.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>460</td> <td>24/12</td> <td>226.00 - 228.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>470</td> <td>24/12</td> <td>231.00 - 233.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>480</td> <td>24/12</td> <td>236.00 - 238.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>490</td> <td>24/12</td> <td>241.00 - 243.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>500</td> <td>24/12</td> <td>246.00 - 248.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>510</td> <td>24/12</td> <td>251.00 - 253.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>520</td> <td>24/12</td> <td>256.00 - 258.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>530</td> <td>24/12</td> <td>261.00 - 263.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>540</td> <td>24/12</td> <td>266.00 - 268.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>550</td> <td>24/12</td> <td>271.00 - 273.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>560</td> <td>24/12</td> <td>276.00 - 278.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>570</td> <td>24/12</td> <td>281.00 - 283.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>580</td> <td>24/12</td> <td>286.00 - 288.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>590</td> <td>24/12</td> <td>291.00 - 293.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>600</td> <td>24/12</td> <td>296.00 - 298.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>610</td> <td>24/12</td> <td>301.00 - 303.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>620</td> <td>24/12</td> <td>306.00 - 308.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>630</td> <td>24/12</td> <td>311.00 - 313.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>640</td> <td>24/12</td> <td>316.00 - 318.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>650</td> <td>24/12</td> <td>321.00 - 323.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>660</td> <td>24/12</td> <td>326.00 - 328.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>670</td> <td>24/12</td> <td>331.00 - 333.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>680</td> <td>24/12</td> <td>336.00 - 338.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>690</td> <td>24/12</td> <td>341.00 - 343.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>700</td> <td>24/12</td> <td>346.00 - 348.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>710</td> <td>24/12</td> <td>351.00 - 353.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>720</td> <td>24/12</td> <td>356.00 - 358.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>730</td> <td>24/12</td> <td>361.00 - 363.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>740</td> <td>24/12</td> <td>366.00 - 368.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>750</td> <td>24/12</td> <td>371.00 - 373.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>760</td> <td>24/12</td> <td>376.00 - 378.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>770</td> <td>24/12</td> <td>381.00 - 383.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>780</td> <td>24/12</td> <td>386.00 - 388.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>790</td> <td>24/12</td> <td>391.00 - 393.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>800</td> <td>24/12</td> <td>396.00 - 398.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>810</td> <td>24/12</td> <td>401.00 - 403.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>820</td> <td>24/12</td> <td>406.00 - 408.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>830</td> <td>24/12</td> <td>411.00 - 413.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>840</td> <td>24/12</td> <td>416.00 - 418.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>850</td> <td>24/12</td> <td>421.00 - 423.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>860</td> <td>24/12</td> <td>426.00 - 428.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>870</td> <td>24/12</td> <td>431.00 - 433.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>880</td> <td>24/12</td> <td>436.00 - 438.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>890</td> <td>24/12</td> <td>441.00 - 443.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>900</td> <td>24/12</td> <td>446.00 - 448.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>910</td> <td>24/12</td> <td>451.00 - 453.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>920</td> <td>24/12</td> <td>456.00 - 458.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>930</td> <td>24/12</td> <td>461.00 - 463.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>940</td> <td>24/12</td> <td>466.00 - 468.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>950</td> <td>24/12</td> <td>471.00 - 473.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>960</td> <td>24/12</td> <td>476.00 - 478.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>970</td> <td>24/12</td> <td>481.00 - 483.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>980</td> <td>24/12</td> <td>486.00 - 488.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>990</td> <td>24/12</td> <td>491.00 - 493.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1000</td> <td>24/12</td> <td>496.00 - 498.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1010</td> <td>24/12</td> <td>501.00 - 503.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1020</td> <td>24/12</td> <td>506.00 - 508.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1030</td> <td>24/12</td> <td>511.00 - 513.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1040</td> <td>24/12</td> <td>516.00 - 518.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1050</td> <td>24/12</td> <td>521.00 - 523.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1060</td> <td>24/12</td> <td>526.00 - 528.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1070</td> <td>24/12</td> <td>531.00 - 533.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1080</td> <td>24/12</td> <td>536.00 - 538.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1090</td> <td>24/12</td> <td>541.00 - 543.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1100</td> <td>24/12</td> <td>546.00 - 548.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1110</td> <td>24/12</td> <td>551.00 - 553.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1120</td> <td>24/12</td> <td>556.00 - 558.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1130</td> <td>24/12</td> <td>561.00 - 563.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1140</td> <td>24/12</td> <td>566.00 - 568.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1150</td> <td>24/12</td> <td>571.00 - 573.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1160</td> <td>24/12</td> <td>576.00 - 578.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1170</td> <td>24/12</td> <td>581.00 - 583.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1180</td> <td>24/12</td> <td>586.00 - 588.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1190</td> <td>24/12</td> <td>591.00 - 593.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1200</td> <td>24/12</td> <td>596.00 - 598.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1210</td> <td>24/12</td> <td>601.00 - 603.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1220</td> <td>24/12</td> <td>606.00 - 608.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1230</td> <td>24/12</td> <td>611.00 - 613.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1240</td> <td>24/12</td> <td>616.00 - 618.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1250</td> <td>24/12</td> <td>621.00 - 623.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1260</td> <td>24/12</td> <td>626.00 - 628.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1270</td> <td>24/12</td> <td>631.00 - 633.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1280</td> <td>24/12</td> <td>636.00 - 638.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1290</td> <td>24/12</td> <td>641.00 - 643.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </tr> <tr> <td>1300</td> <td>24/12</td> <td>646.00 - 648.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-24.0</td> </</tr></tbody></table>						Depth (ft.)	Sample Information						Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class	Sample No.	Depth (ft.)	Depth (ft.)	Depth (ft.)	Depth (ft.)	Depth (ft.)	10	24/10	1.00 - 3.00	23/11/44/27	55	85	SPN HW	6.5" BITUMINOUS PAVEMENT	0.5	20	24/10	5.00 - 7.00	14/29/9/12	38	58		2D: No Recovery Drilling action was slow from 6 to 10 feet. Observed rock fragments in the drill water due to possible cobbles and boulders.		30	24/6	10.00 - 12.00	9/19/4/6	9	14		3D: Dark brown, wet, medium dense, fine to medium Silty SAND, trace wood, trace organic fines, SM (BURED ORGANICS)	-10.0	R1	24/24	12.50 - 14.50				NO-2	R1: Boulder, min/ft: 2.0, 1.8 Switched to 3" casing at 14.5 feet and roller bit to 15 feet and sampled	-12.5	40	24/6	15.00 - 17.00	6/4/7/16	11	17	SPN HW	4D: Light brownish gray, wet, medium dense, fine to coarse SAND, some silt, some fine angular gravel, SM (GLACIAL DEPOSITS)	-15.0	50	24/77	21.00 - 23.00	17/10/10/15	20	31		Encountered possible cobbles at 20 feet. Spin casing down to 21 feet and sampled at 21 feet. 5D - Top 12": Similar to 4D, except dense (GLACIAL DEPOSITS)	-22.0	60	24/12	26.00 - 28.00	5/12/17/20	29	45		Bottom 5": Light gray, wet, hard, SILT, slightly plastic, little fine sand, ML (GLACIAL DEPOSITS)	-24.0	70	24/12	31.00 - 33.00					Assumed lithology change	-24.0	80	24/12	36.00 - 38.00					6D: Light gray, wet, dense, fine to coarse Silty SAND, little fine subrounded gravel, SM (GLACIAL DEPOSITS)	-24.0	90	24/12	41.00 - 43.00						-24.0	100	24/12	46.00 - 48.00						-24.0	110	24/12	51.00 - 53.00						-24.0	120	24/12	56.00 - 58.00						-24.0	130	24/12	61.00 - 63.00						-24.0	140	24/12	66.00 - 68.00						-24.0	150	24/12	71.00 - 73.00						-24.0	160	24/12	76.00 - 78.00						-24.0	170	24/12	81.00 - 83.00						-24.0	180	24/12	86.00 - 88.00						-24.0	190	24/12	91.00 - 93.00						-24.0	200	24/12	96.00 - 98.00						-24.0	210	24/12	101.00 - 103.00						-24.0	220	24/12	106.00 - 108.00						-24.0	230	24/12	111.00 - 113.00						-24.0	240	24/12	116.00 - 118.00						-24.0	250	24/12	121.00 - 123.00						-24.0	260	24/12	126.00 - 128.00						-24.0	270	24/12	131.00 - 133.00						-24.0	280	24/12	136.00 - 138.00						-24.0	290	24/12	141.00 - 143.00						-24.0	300	24/12	146.00 - 148.00						-24.0	310	24/12	151.00 - 153.00						-24.0	320	24/12	156.00 - 158.00						-24.0	330	24/12	161.00 - 163.00						-24.0	340	24/12	166.00 - 168.00						-24.0	350	24/12	171.00 - 173.00						-24.0	360	24/12	176.00 - 178.00						-24.0	370	24/12	181.00 - 183.00						-24.0	380	24/12	186.00 - 188.00						-24.0	390	24/12	191.00 - 193.00						-24.0	400	24/12	196.00 - 198.00						-24.0	410	24/12	201.00 - 203.00						-24.0	420	24/12	206.00 - 208.00						-24.0	430	24/12	211.00 - 213.00						-24.0	440	24/12	216.00 - 218.00						-24.0	450	24/12	221.00 - 223.00						-24.0	460	24/12	226.00 - 228.00						-24.0	470	24/12	231.00 - 233.00						-24.0	480	24/12	236.00 - 238.00						-24.0	490	24/12	241.00 - 243.00						-24.0	500	24/12	246.00 - 248.00						-24.0	510	24/12	251.00 - 253.00						-24.0	520	24/12	256.00 - 258.00						-24.0	530	24/12	261.00 - 263.00						-24.0	540	24/12	266.00 - 268.00						-24.0	550	24/12	271.00 - 273.00						-24.0	560	24/12	276.00 - 278.00						-24.0	570	24/12	281.00 - 283.00						-24.0	580	24/12	286.00 - 288.00						-24.0	590	24/12	291.00 - 293.00						-24.0	600	24/12	296.00 - 298.00						-24.0	610	24/12	301.00 - 303.00						-24.0	620	24/12	306.00 - 308.00						-24.0	630	24/12	311.00 - 313.00						-24.0	640	24/12	316.00 - 318.00						-24.0	650	24/12	321.00 - 323.00						-24.0	660	24/12	326.00 - 328.00						-24.0	670	24/12	331.00 - 333.00						-24.0	680	24/12	336.00 - 338.00						-24.0	690	24/12	341.00 - 343.00						-24.0	700	24/12	346.00 - 348.00						-24.0	710	24/12	351.00 - 353.00						-24.0	720	24/12	356.00 - 358.00						-24.0	730	24/12	361.00 - 363.00						-24.0	740	24/12	366.00 - 368.00						-24.0	750	24/12	371.00 - 373.00						-24.0	760	24/12	376.00 - 378.00						-24.0	770	24/12	381.00 - 383.00						-24.0	780	24/12	386.00 - 388.00						-24.0	790	24/12	391.00 - 393.00						-24.0	800	24/12	396.00 - 398.00						-24.0	810	24/12	401.00 - 403.00						-24.0	820	24/12	406.00 - 408.00						-24.0	830	24/12	411.00 - 413.00						-24.0	840	24/12	416.00 - 418.00						-24.0	850	24/12	421.00 - 423.00						-24.0	860	24/12	426.00 - 428.00						-24.0	870	24/12	431.00 - 433.00						-24.0	880	24/12	436.00 - 438.00						-24.0	890	24/12	441.00 - 443.00						-24.0	900	24/12	446.00 - 448.00						-24.0	910	24/12	451.00 - 453.00						-24.0	920	24/12	456.00 - 458.00						-24.0	930	24/12	461.00 - 463.00						-24.0	940	24/12	466.00 - 468.00						-24.0	950	24/12	471.00 - 473.00						-24.0	960	24/12	476.00 - 478.00						-24.0	970	24/12	481.00 - 483.00						-24.0	980	24/12	486.00 - 488.00						-24.0	990	24/12	491.00 - 493.00						-24.0	1000	24/12	496.00 - 498.00						-24.0	1010	24/12	501.00 - 503.00						-24.0	1020	24/12	506.00 - 508.00						-24.0	1030	24/12	511.00 - 513.00						-24.0	1040	24/12	516.00 - 518.00						-24.0	1050	24/12	521.00 - 523.00						-24.0	1060	24/12	526.00 - 528.00						-24.0	1070	24/12	531.00 - 533.00						-24.0	1080	24/12	536.00 - 538.00						-24.0	1090	24/12	541.00 - 543.00						-24.0	1100	24/12	546.00 - 548.00						-24.0	1110	24/12	551.00 - 553.00						-24.0	1120	24/12	556.00 - 558.00						-24.0	1130	24/12	561.00 - 563.00						-24.0	1140	24/12	566.00 - 568.00						-24.0	1150	24/12	571.00 - 573.00						-24.0	1160	24/12	576.00 - 578.00						-24.0	1170	24/12	581.00 - 583.00						-24.0	1180	24/12	586.00 - 588.00						-24.0	1190	24/12	591.00 - 593.00						-24.0	1200	24/12	596.00 - 598.00						-24.0	1210	24/12	601.00 - 603.00						-24.0	1220	24/12	606.00 - 608.00						-24.0	1230	24/12	611.00 - 613.00						-24.0	1240	24/12	616.00 - 618.00						-24.0	1250	24/12	621.00 - 623.00						-24.0	1260	24/12	626.00 - 628.00						-24.0	1270	24/12	631.00 - 633.00						-24.0	1280	24/12	636.00 - 638.00						-24.0	1290	24/12	641.00 - 643.00						-24.0	1300	24/12	646.00 - 648.00						-24.0
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PRECAST CONCRETE TRANSITION CURB		
	End Points	
13		12



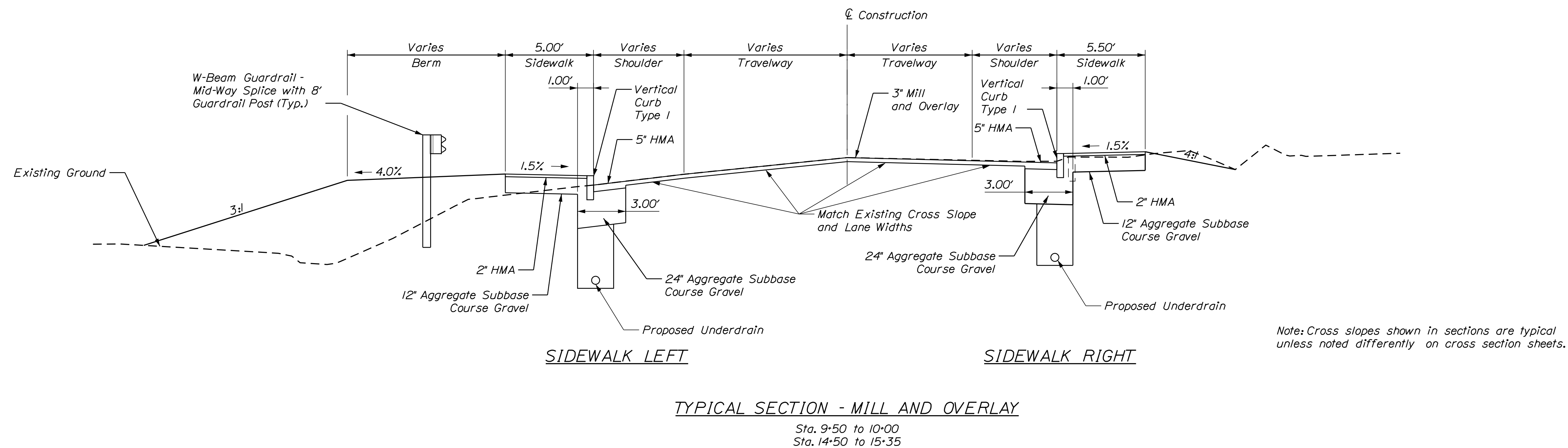
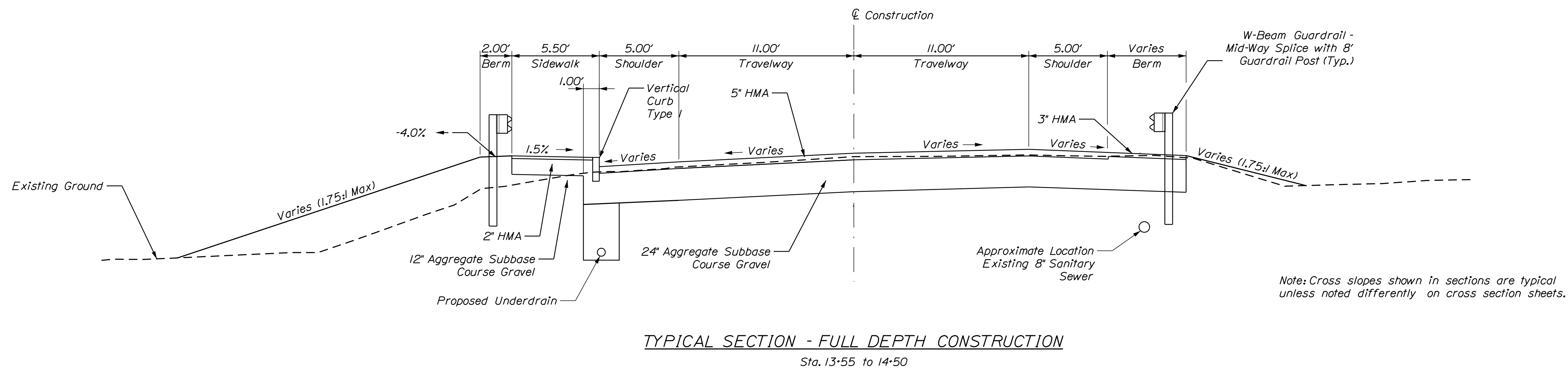
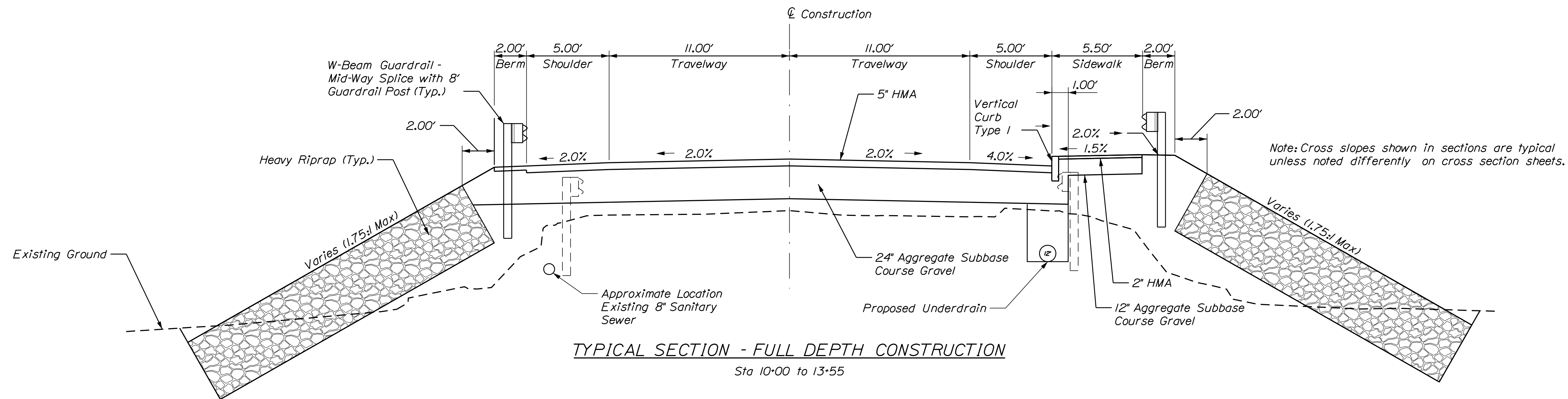
CONTROL POINTS FOR MLO1				
Point	Station	Offset	X Coord.	Y Coord.
9	13+57.70	16.01'LT	195649.5198	2177990.6348
10	14+63.34	16.01'LT	195673.7558	2178092.6664
11	15+28.86	16.01'LT	195692.5955	2178154.0265

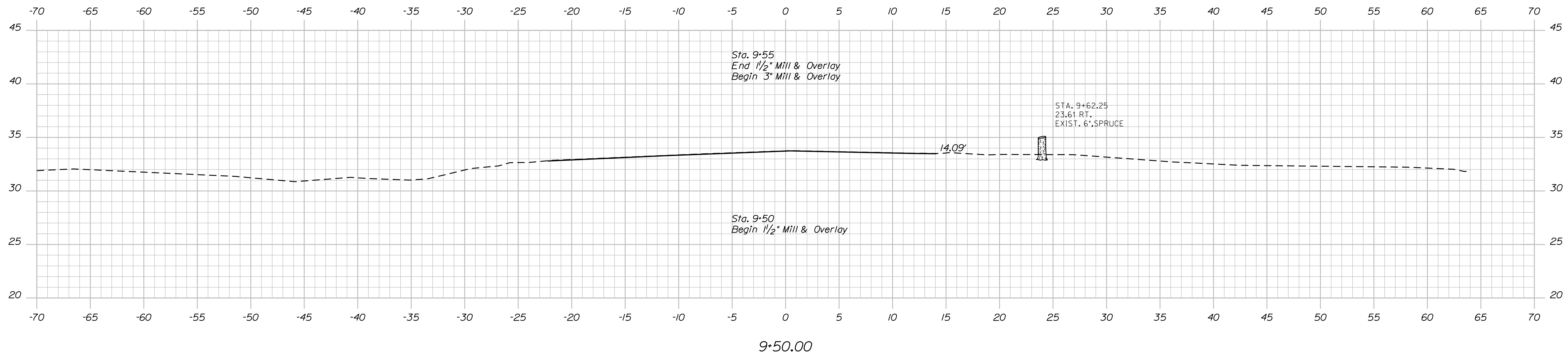


TANGENT, CURVE & CENTER POINT DATA FOR MRO3						
Pt. to Pt.	Radius	Length	Station	Offset	X Coord	Y Coord
9-10	2208.99'	92.88'	14+05.01	2225.00'	197810.2229	2177531.2884
10-11	783.99'	56.21'	14+96.10	800.00'	196432.0068	2177893.4284

Note: The lengths of the curb inlets and terminal sections have been deducted from the overall length between control points.

SHEET NUMBER	10			
	OF 32			
BABSON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY	PROJ. MANAGER	DENVER SMALL	BY	DATE
	DESIGN-DETAILED	M. CROWN	C. JONES	12/20/2022
GEOMETRIC PLAN	CHECKED-REVIEWED	K. WOOD	S. HUBBARD	12/20/2022
	DESIGN2-DETAILED2			
	DESIGN3-DETAILED3			
	REVISIONS 1			
	REVISIONS 2			
	REVISIONS 3			
	REVISIONS 4			
	FIELD CHANGES			
STATE OF MAINE DEPARTMENT OF TRANSPORTATION				
02351500				
WIN				
023515.00				
BRIDGE NO. 5244				
BRIDGE PLANS				





SHEET NUMBER

12

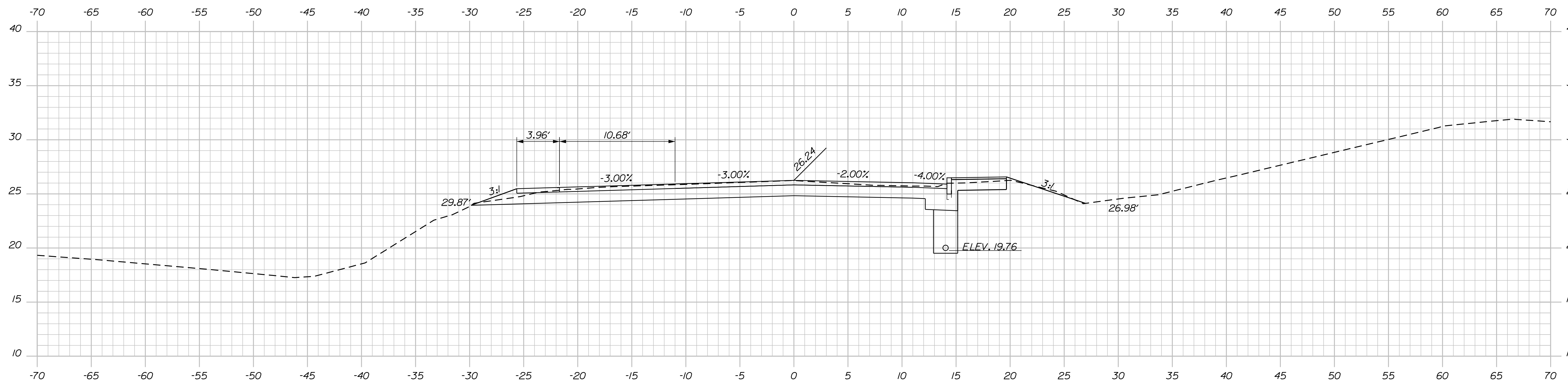
OF 32

BRIDGE NO. 5244 **WIN 023515.00** BRIDGE PLANS

Kathy S. Wood
 SIGNATURE
 10423
 P.E. NUMBER
 9/26/2014
 DATE

PROJ. MANAGER	DENVER SMALL	BY	DATE
DESIGN-DETAIL 1	M. CRONN	C. JONES	
DESIGN-DETAIL 2	K. WOOD	S. HUBBARD	12/2/2022
DESIGN-DETAIL 3			
DESIGN-DETAIL 4			
DESIGN-DETAIL 5			
DESIGN-DETAIL 6			
DESIGN-DETAIL 7			
DESIGN-DETAIL 8			
DESIGN-DETAIL 9			
DESIGN-DETAIL 10			
DESIGN-DETAIL 11			
DESIGN-DETAIL 12			
DESIGN-DETAIL 13			
DESIGN-DETAIL 14			
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DESIGN-DETAIL 19			
DESIGN-DETAIL 20			
DESIGN-DETAIL 21			
DESIGN-DETAIL 22			
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DESIGN-DETAIL 115</			

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BABSON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY

CROSS SECTIONS

PROJ. MANAGER	DENVER SMALL	M. CROWN	C. JONES	DATE
DESIGN-OF-TALE D	K. WOOD	S. HUBBARD		12/2/2022
CHECKED-REVIEWED				
DESIGN3-DETAILED2				
DESIGN3-DETAILED3				
REVISONS 1				
REVISONS 2				
REVISONS 3				
REVISONS 4				
FIELD CHANGES				

P.E. NUMBER 97215

DATE _____

DEPARTMENT OF TRANSPORTATION

02351500

WIN
023515.0

BRIDGE NO. 5244

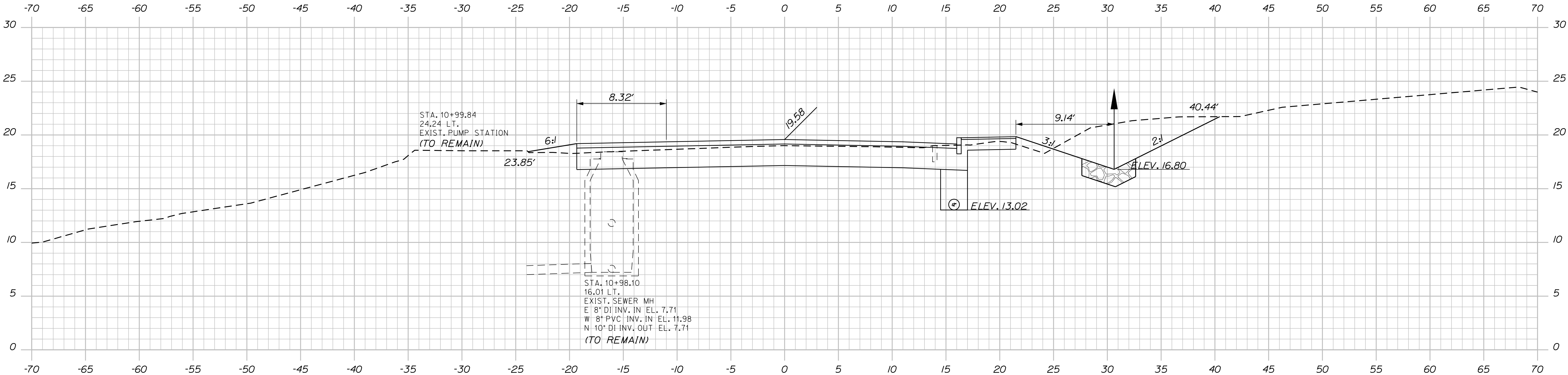
BRIDGE PLANS

Date:9/25/2024

Username:

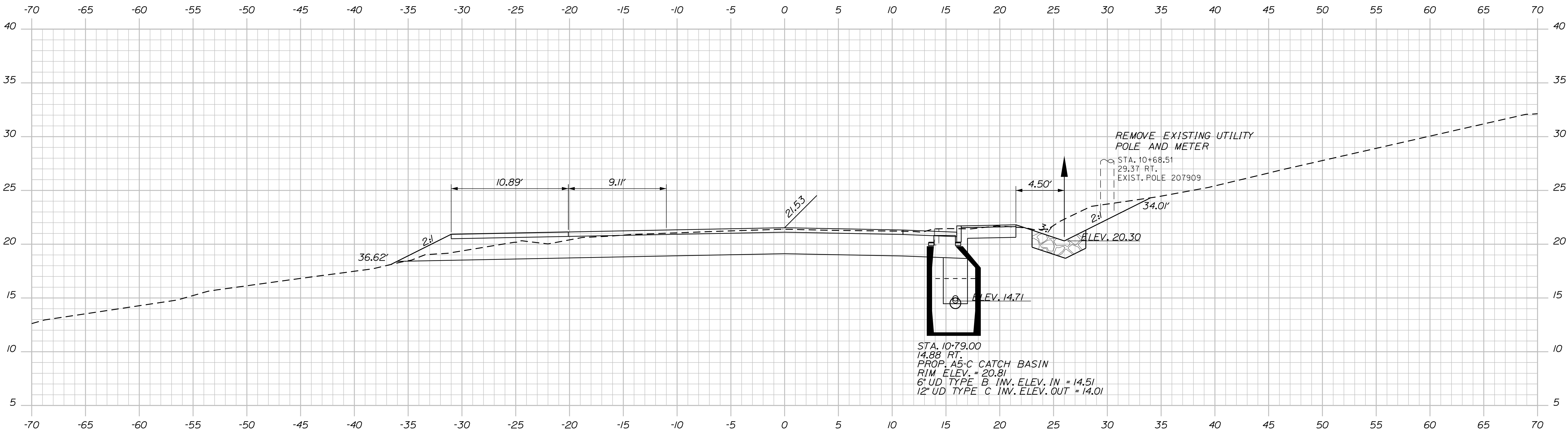
Division: BRIDGE

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11+00.00

Catch Basin Sta. 10+79.00 RT
Catch Basin Sta. 12+00.00 RT
Install 118"
12" Underdrain Type C



10+75.00

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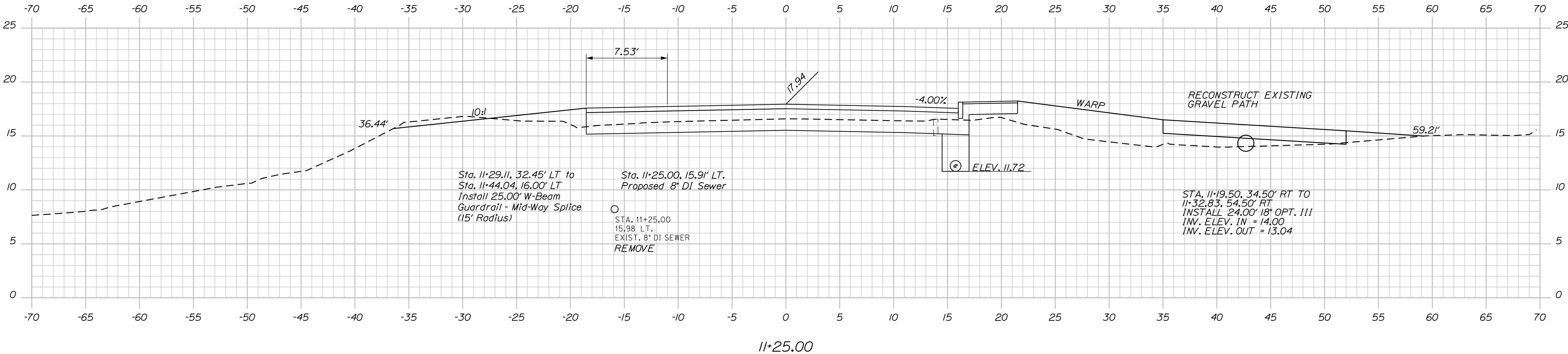
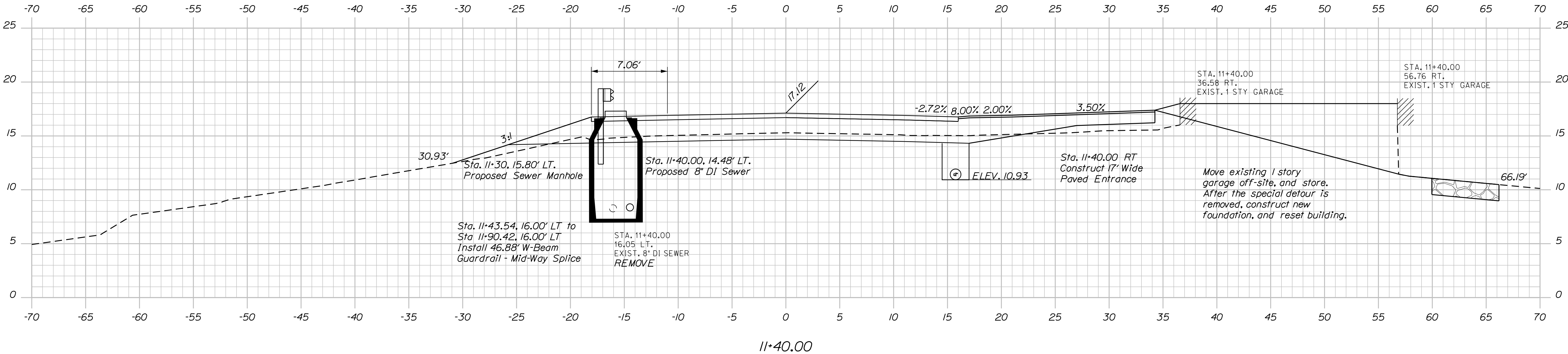
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02351500		WIN 023515.00		BRIDGE NO. 5244 BRIDGE PLANS			
BABBON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY		SHEET NUMBER 14 OF 32		CROSS SECTIONS					
PROJ. MANAGER DENVER SMALL M. CROWN		BY C. JONES S. HUBBARD		DATE 12/20/22		SIGNATURE K. S. WOOD 10/23		P.E. NUMBER 1166104 DATE 11/26/24	
DESIGN-DETAILED K. WOOD		CHECKED-REVIEWED K. WOOD		DESIGN-DETAILED K. WOOD		REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4		FIELD CHANGES	

Date:9/25/2024

Username:

Division: BRIDGE

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Sta. 11+25.00 to Sta. 11+40.00

K. S. Wood
10/23
8/26/2024
 STATE OF MAINE
K. S. Wood
Professional Engineer
No. 10483
Ex. 12014

PROJ. MANAGER	DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
DENVER SMALL	12/20/22	C. JONES	M. CROWN	S. HUBBARD	K. WOOD					

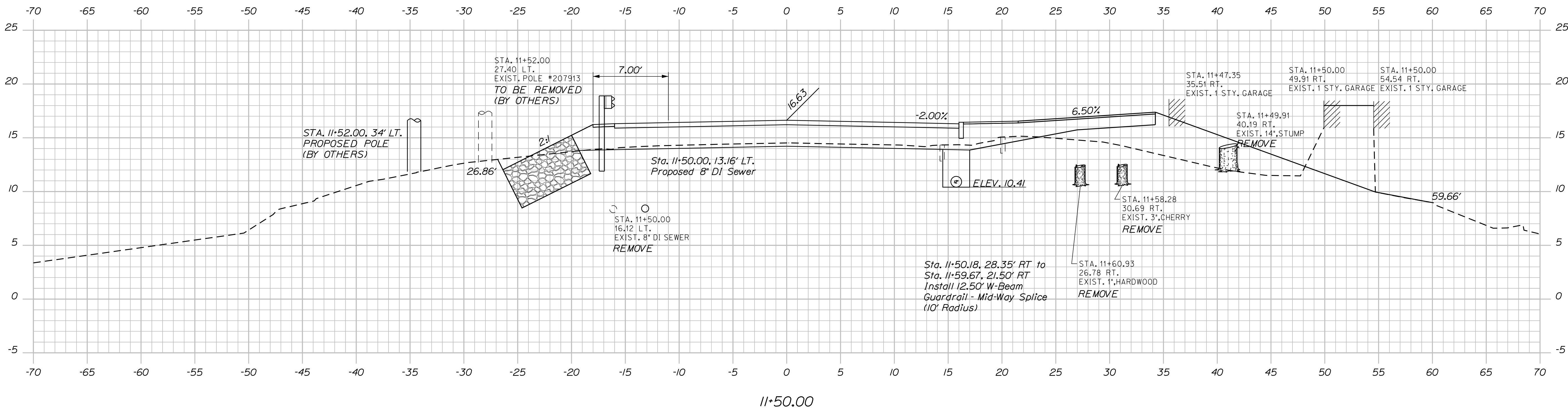
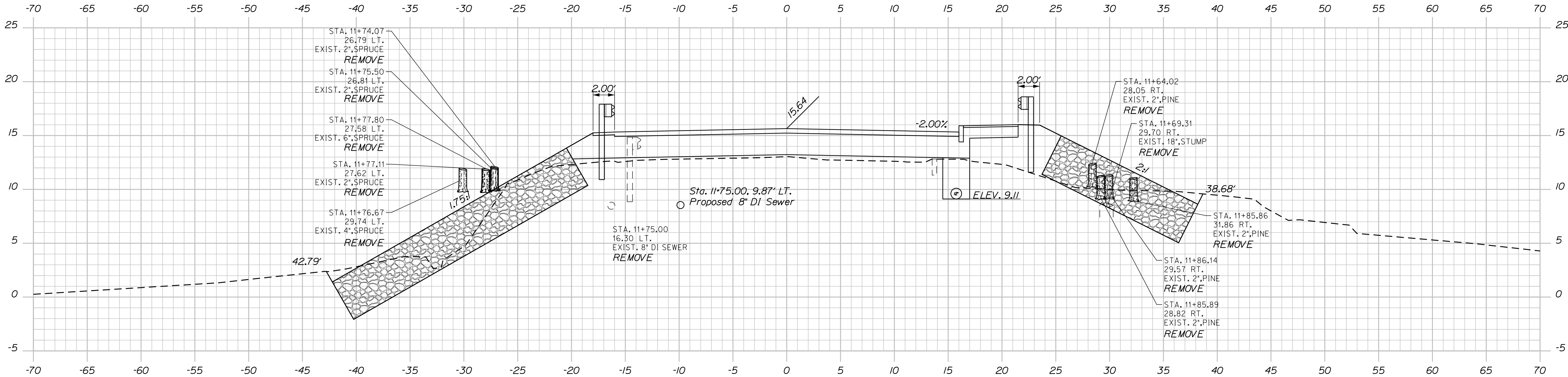
BABSON BRIDGE
KITTEREDGE BROOK
MOUNT DESERT
HANCOCK COUNTY
CROSS SECTIONS

Date:9/25/2024

Username:

Division: BRIDGE

Filename: ... \BRIDGE\MSTA\012-023_xsect.dgn

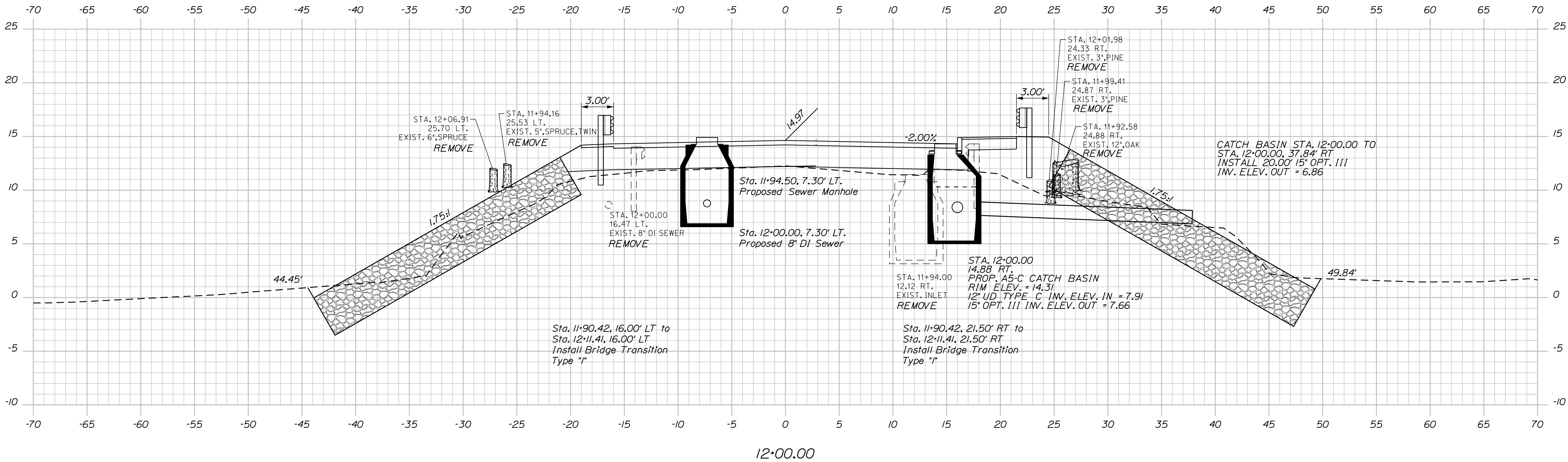
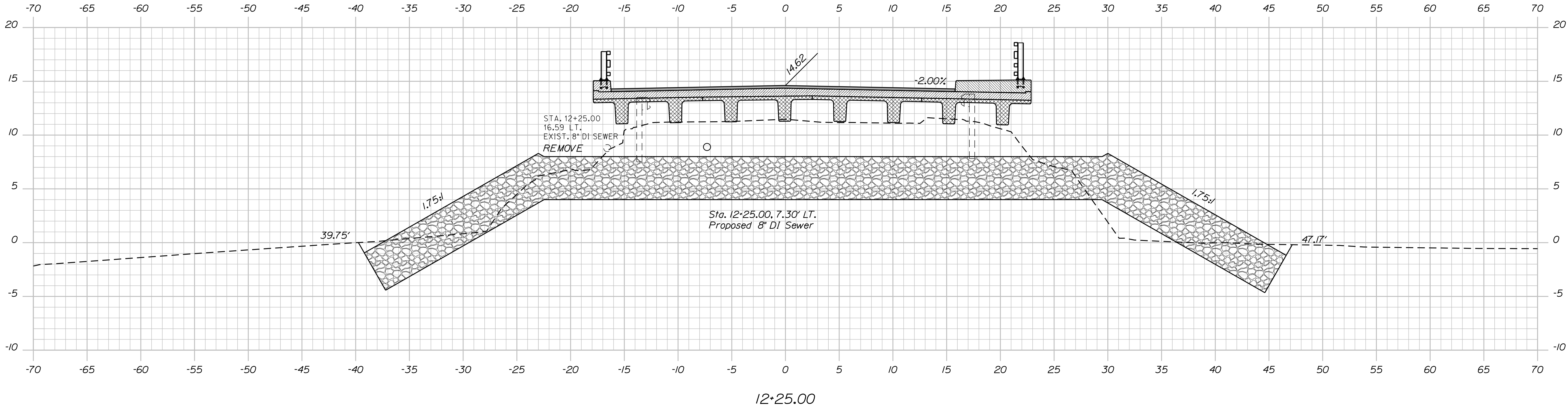


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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02351500		WIN 023515.00		BRIDGE NO. 5244 BRIDGE PLANS	
BABS ON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY		SHEET NUMBER 17 OF 32		CROSS SECTIONS			

Signature: *Kath S. Wood*
P.E. NUMBER: 10423
DATE: 9/26/2024

PROJ. MANAGER: DENVER SMALL
DESIGN-DETAILED: M. CROWN
CHECKED-REVIEWED: K. WOOD
DESIGN-DETAILED: S. HUBBARD
REVISIONS: 1
REVISIONS: 2
REVISIONS: 3
REVISIONS: 4
FIELD CHANGES

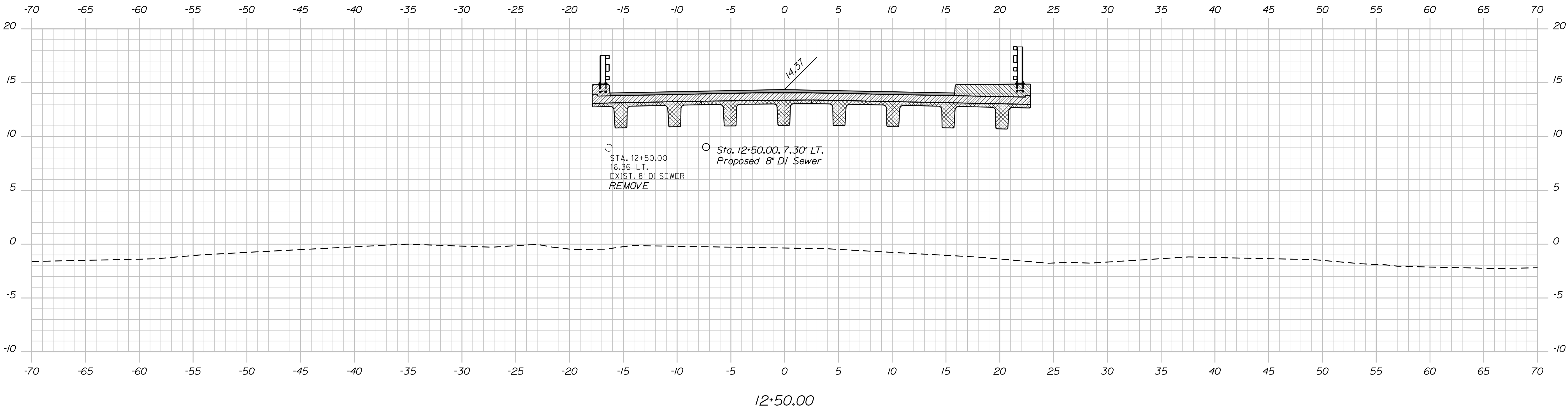
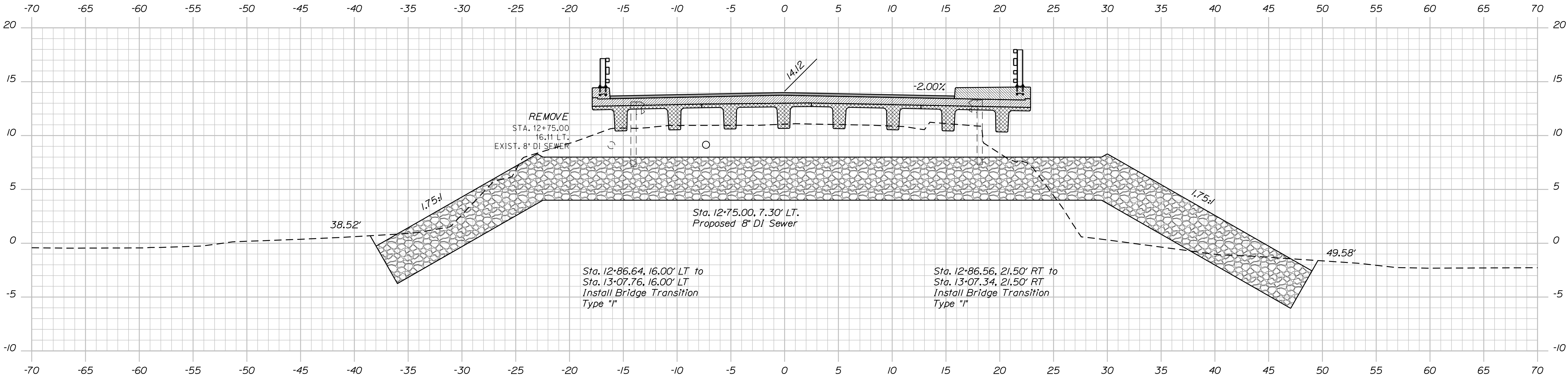
DATE: 12/20/22
BY: C. JONES
S. HUBBARD

Date:9/25/2024

Username:

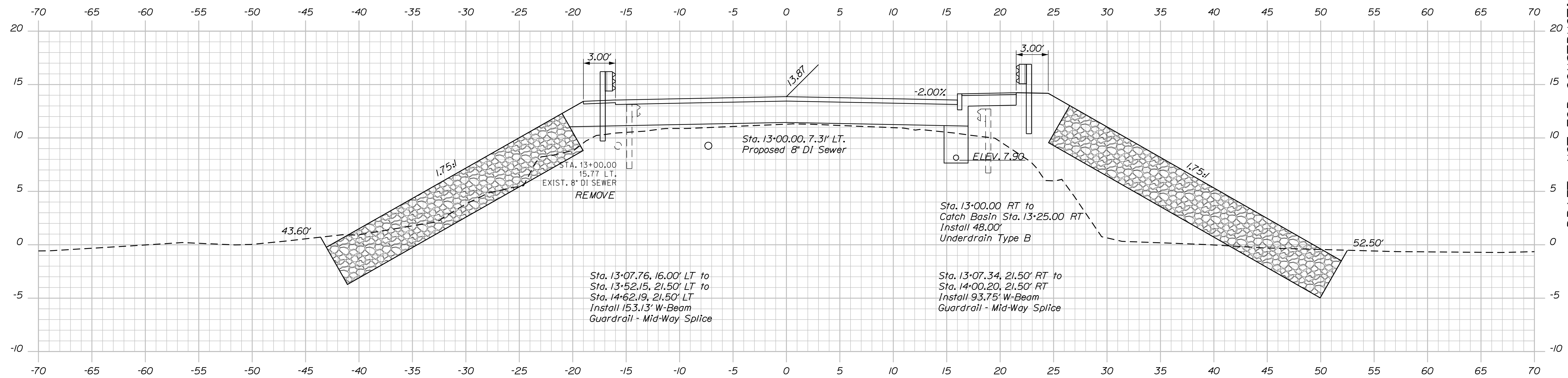
Division: BRIDGE

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02351500		WIN 023515.00		BRIDGE NO. 5244 BRIDGE PLANS	
BABBON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY		SHEET NUMBER 18 OF 32		SIGNATURE Kath S. Wood 10/23 PE NUMBER 8760204 DATE 10/14			
PROJ. MANAGER DENVER SMALL	BY C. JONES	CHECKED M. CROWN	DESIGNED S. HUBBARD	DESIGNED S. HUBBARD	DESIGNED S. HUBBARD	DESIGNED S. HUBBARD	DESIGNED S. HUBBARD
DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	DESIGN-DETAILED	DESIGN-DETAILED	DESIGN-DETAILED	DESIGN-DETAILED	DESIGN-DETAILED
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	REVISIONS 5	REVISIONS 6	REVISIONS 7	REVISIONS 8
FIELD CHANGES							



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CROSS SECTIONS

SHEET NUMBER

19

OF 32

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	02351500
SIGNATURE 10423 P.E. NUMBER 4766/2024	WIN 023515 00 BRIDGE PLANS

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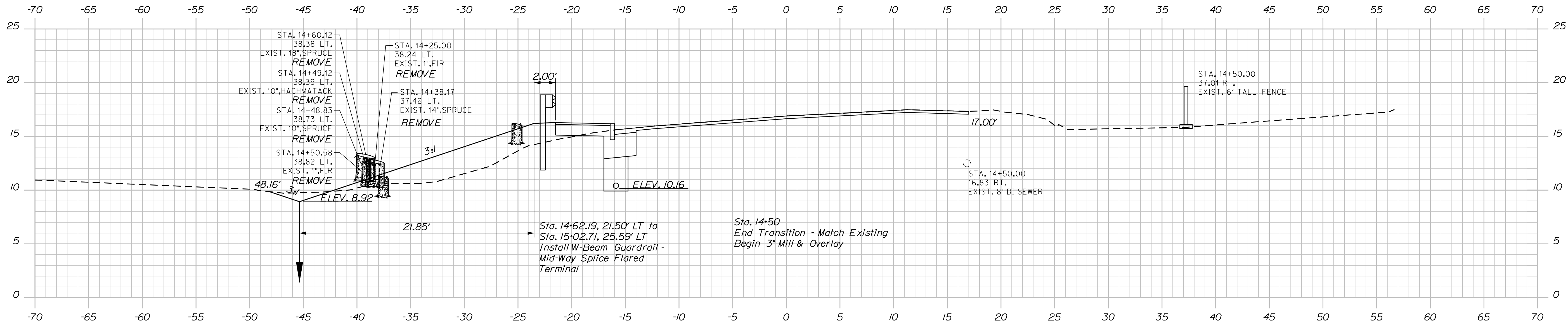
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Date:9/25/2024

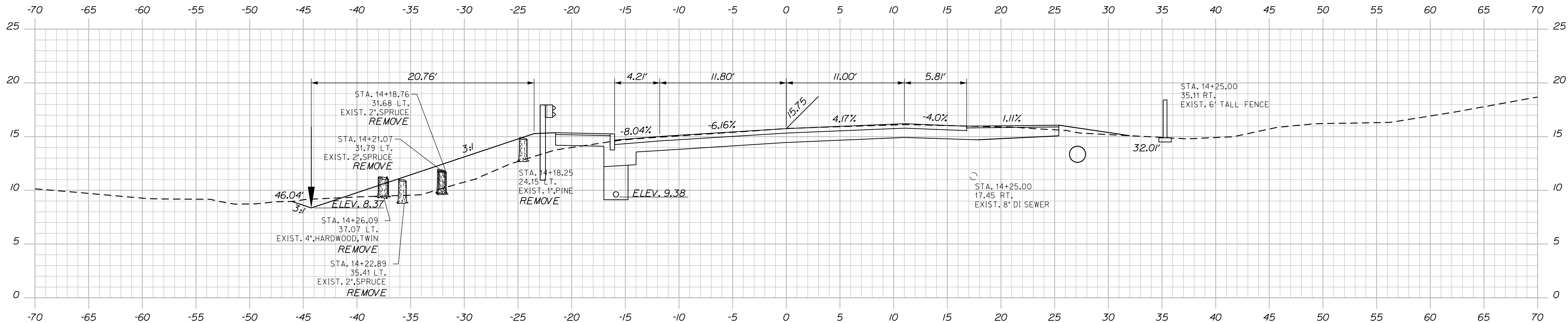
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Division: BRIDGE

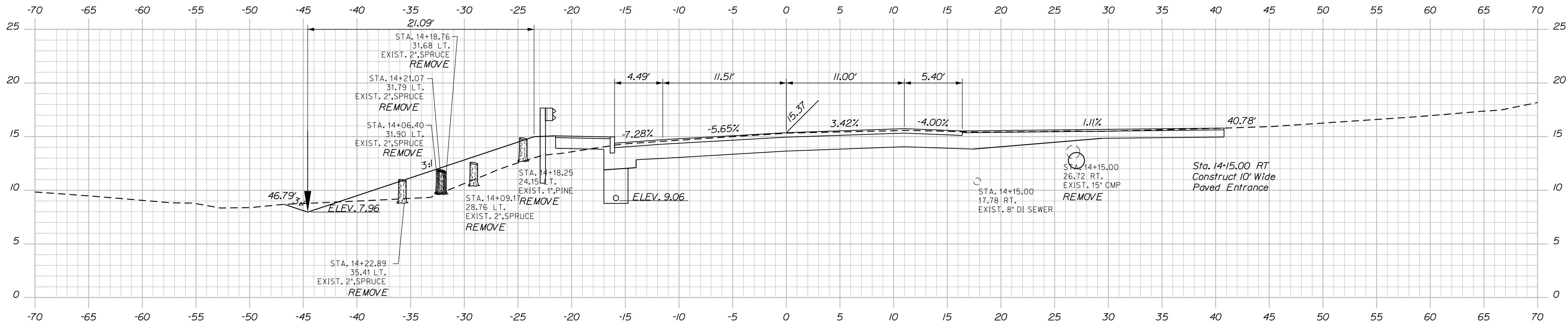
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14+50.00



14+25.00



14+15.00

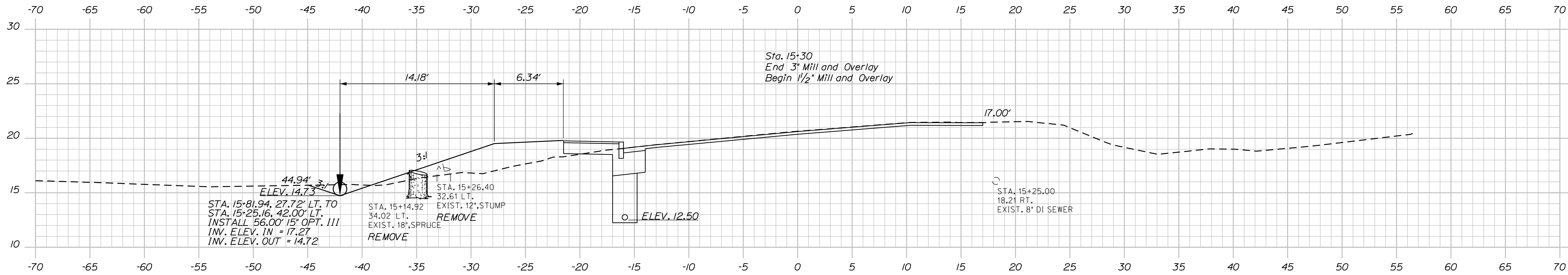
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02351500		WIN 023515.00		BRIDGE NO. 5244		BRIDGE PLANS	
		SIGNATURE		P.E. NUMBER		DATE		CROSS SECTIONS	
		K. S. Wood		10423		9/20/2024			
BABSON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY		SHEET NUMBER		21		OF 32			
PROJECT MANAGER: DENVER SMALL		BY: C. JONES		CHECKED: J. CROWN		DESIGNED: K. WOOD		REVISIONS: 1, 2, 3, 4	

Date:9/25/2024

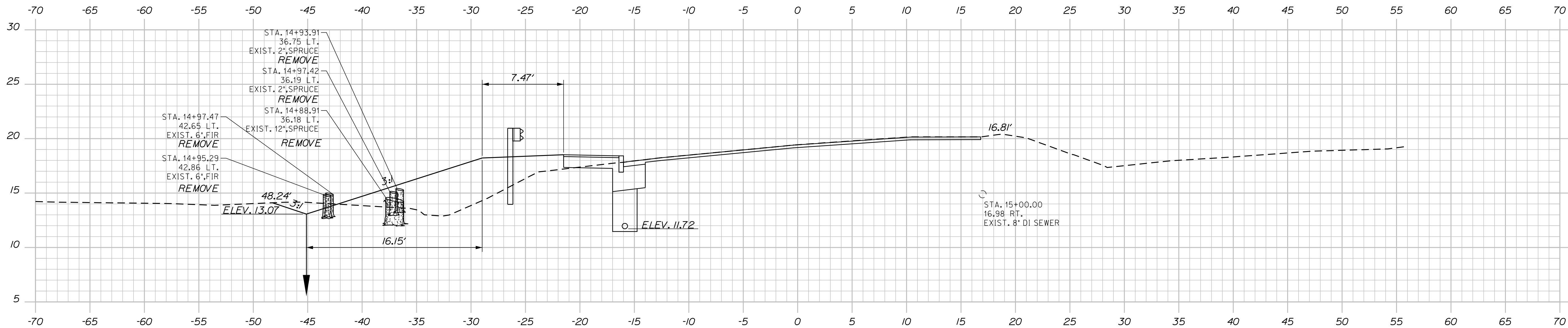
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Division: BRIDGE

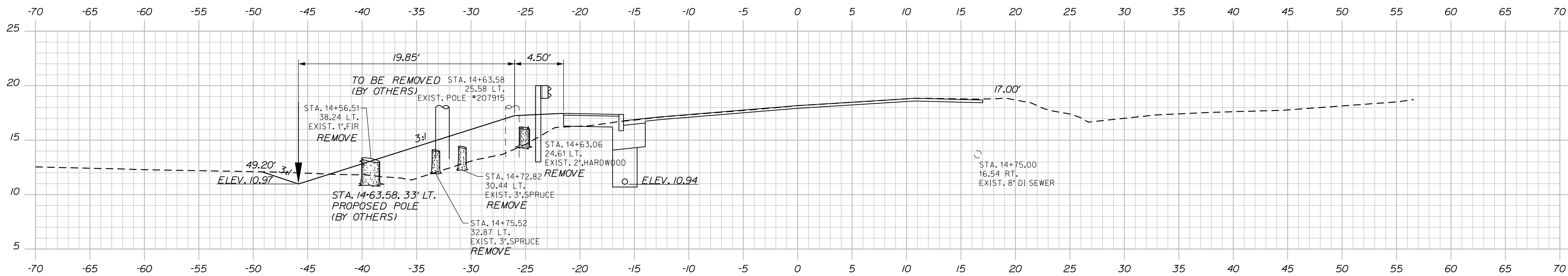
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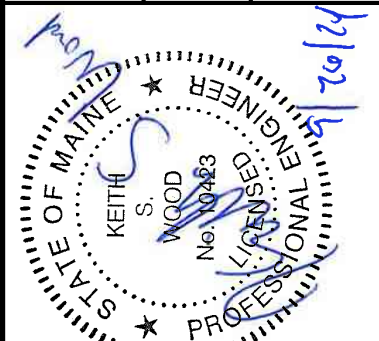
15+25.00



15+00.00



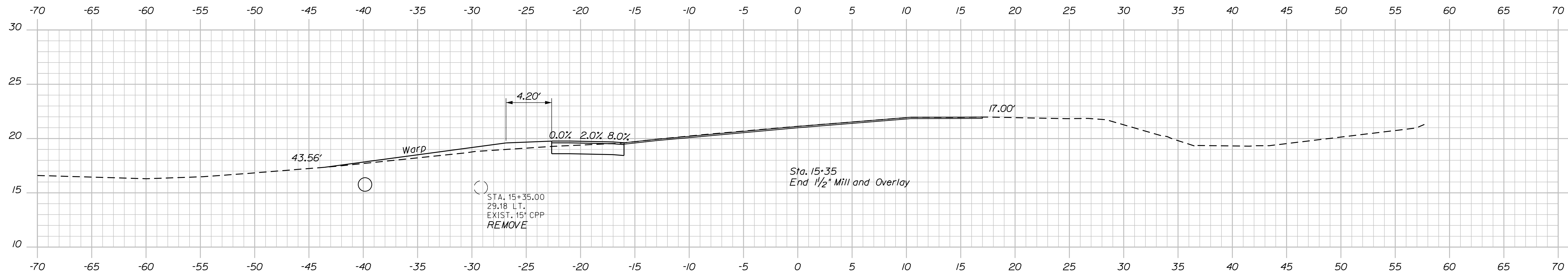
14+75.00



Signature: Keith S. Wood
P.E. NUMBER: 10423
DATE: 9/26/2024

DATE	BY	PROJ. MANAGER	DENVER SMALL
12/20/22	C. JONES	M. CROWN	K. WOOD
12/20/22	S. HUBBARD		
DESIGN-DETAILED			
CHECKED-REVIEWED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BABSON BRIDGE
KITTEREDGE BROOK
MOUNT DESERT
HANCOCK COUNTY
CROSS SECTIONS



15+35.00

Sta. 15+35
End 1 1/2" Mill and Overlay

STA. 15+35.00
29.18 LT.
EXIST. 15' CPP
REMOVE

SHEET NUMBER
23
OF 32



1. The maximum factored pile load is 310 kips at the Strength Limit State.
2. Abutment No. 1 Piles shall be driven to the required resistance on or within bedrock in accordance with Standard Specification Section 501.
3. Estimate of piles required:

Abutment No. 1: 5 ~ HP 14x73 @ 30 feet (Driven)
Abutment No. 2: 5 ~ HP 14x73 @ 25 feet (Rock Socketed)

The order lengths of the driven piles at both abutments shall include an additional 5 feet of length to accommodate dynamic pile testing equipment for each test pile at Abutment No. 1 and bedrock variability at Abutment No. 2.

4. H-pile material shall be ASTM A572, Grade 50.
5. H-pile splices shall be in accordance with Standard Detail 501(03).
6. All driven piles shall be equipped with a pile tip in accordance with Standard Specifications Subsections 501.048, Prefabricated Pile Tips and 711.10 H-Beam Piles, Spliced and Tips.
7. All rock socketed piles shall be equipped with a bearing plate at the pile tip, as shown on the plans. All costs associated with fabrication and installation of the bearing plates shall be considered incidental to Pay Item 501.502, Rock-Socketed H-Piles.

1. Structural Earth Excavation required more than 12 inches below the bottom of the structure will be paid for in accordance with Standard Specifications Section 206, Structural Excavation.
2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
3. Place drains with a 4-inch diameter in the breastwall and wingwalls at 10 feet maximum spacing. The exact location will be determined by the Resident.
4. Cover joints where waterstops are not required in accordance with Standard Details Section 502.
5. Place the parapet portions of the wingwalls after erection of the Detail Build Superstructure.
6. Payment for the concrete jackets around the tops of the H-piles will not be paid for directly but will be considered incidental to Pay Item 502.219, Structural Concrete Abutments and Retaining Walls. Fill Concrete may be used for the concrete jackets.
7. The estimated quantity for abutment concrete for Pay Item 502.219, Structural Concrete Abutments and Retaining Walls is based upon the assumed NEXT F Superstructure, and shall be paid for at the lump sum price. No adjustments shall be made to the lump sum quantity if a different superstructure is chosen by the Contractor.
8. The rebar shown on plan sheets 25 and 27 and summarized in the rebar schedule shown on plan sheet 31 is based upon the assumed NEXT F Superstructure. If the Contractor chooses a different superstructure, the rebar design and schedule for the abutments shall be revised by the Contractor and submitted as part of the superstructure design per Special Provision Section 531 - Bridge Superstructure Detail Build.
9. Install Drainage Geocomposite behind the abutments and wingwalls up to the approach slab seat elevation in accordance with Special Provision Section 620, Drainage Geocomposite.

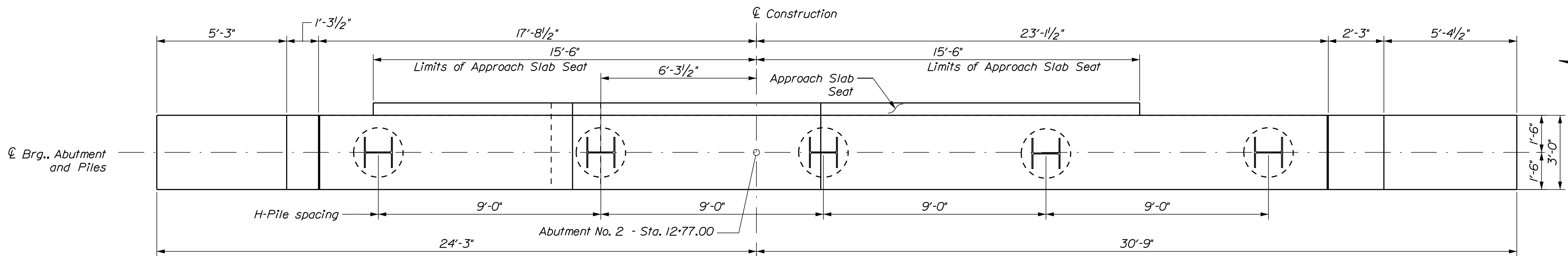


Date:9/25/2024

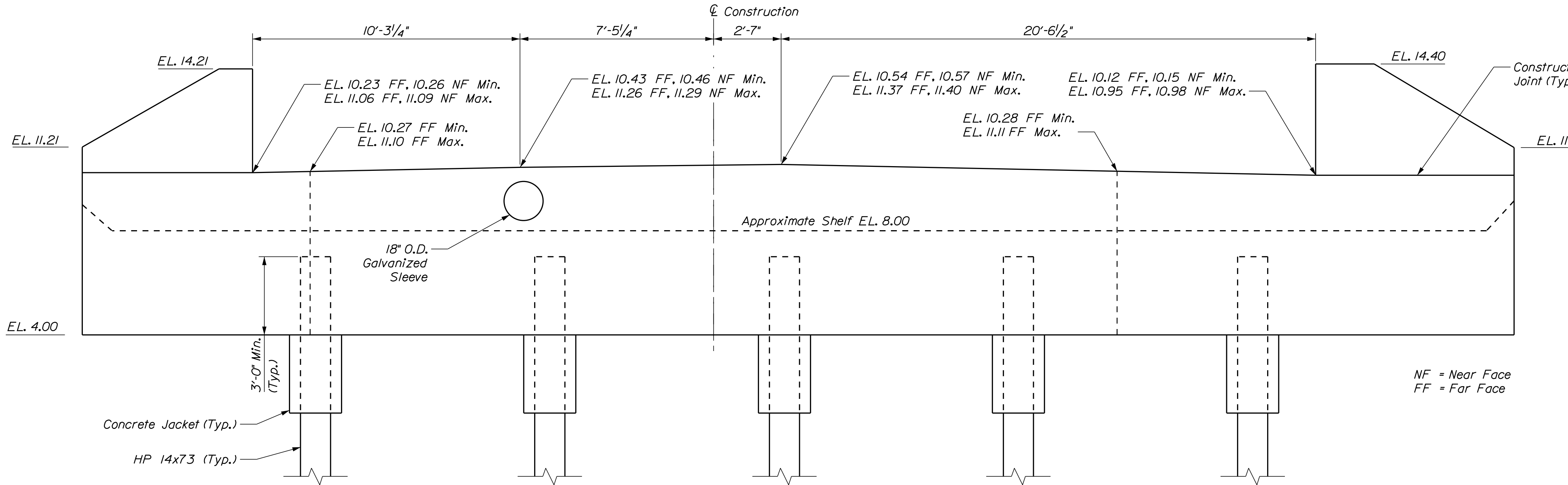
Username:

Division: BRIDGE

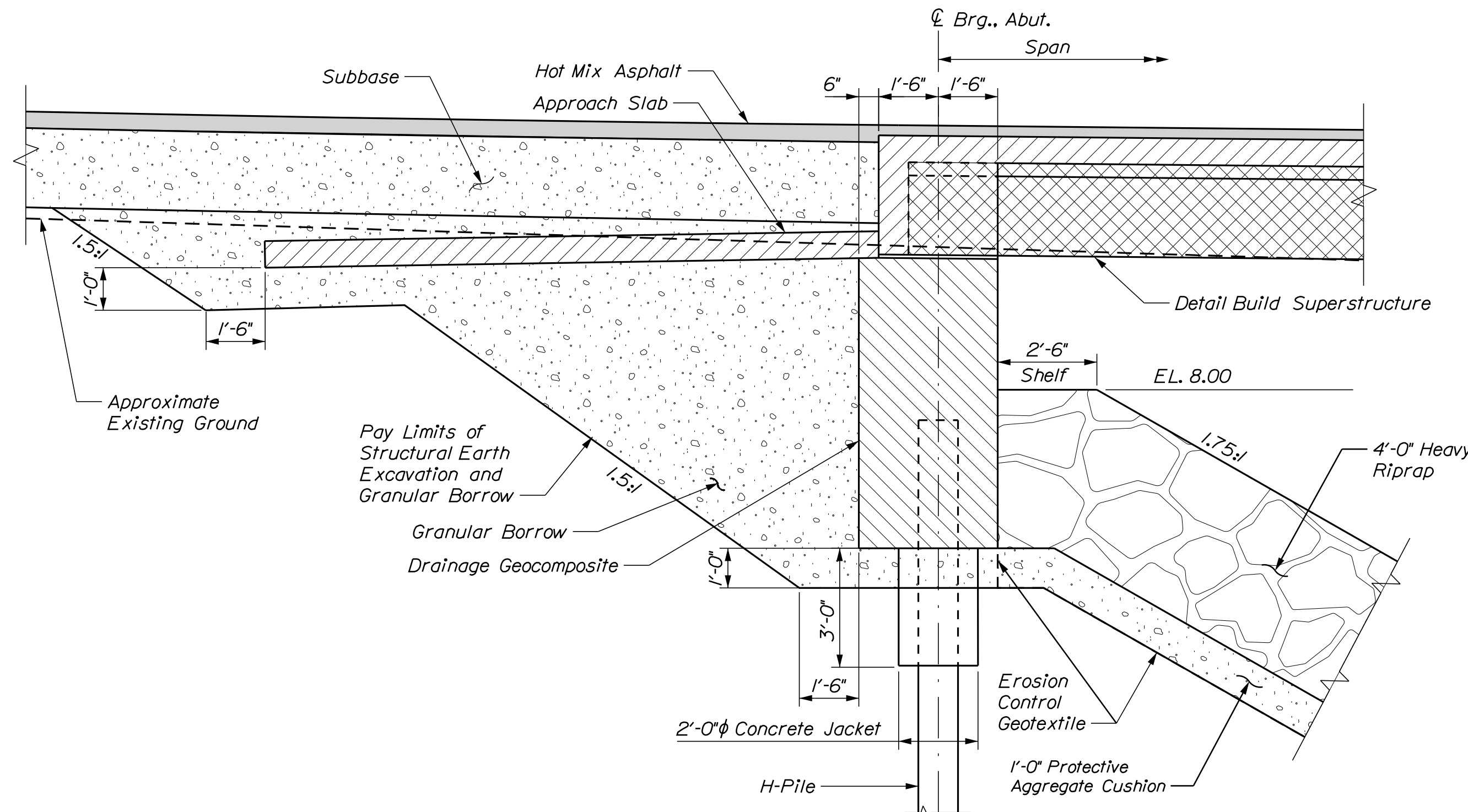
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PLAN ~ ABUTMENT NO. 2

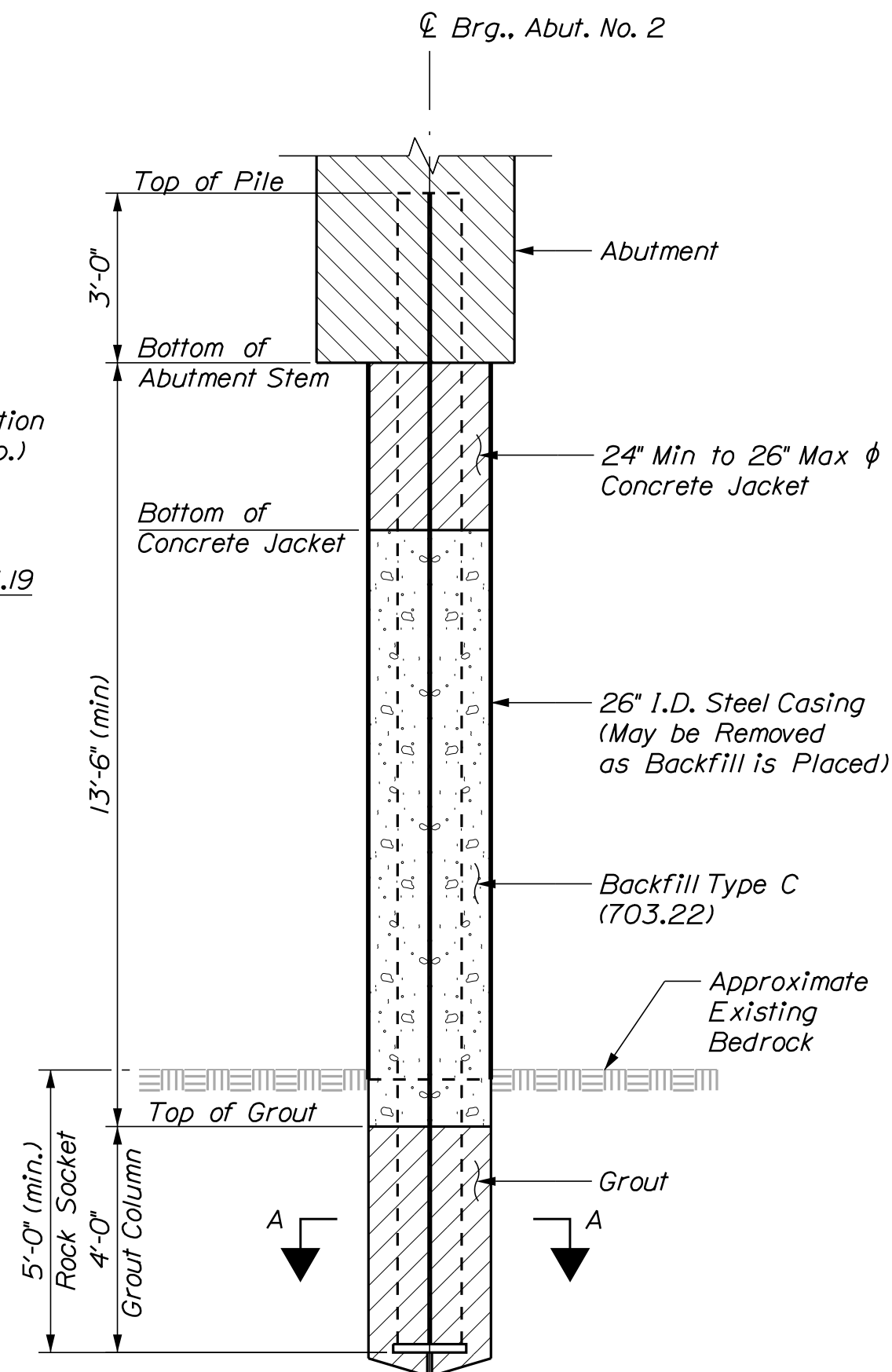
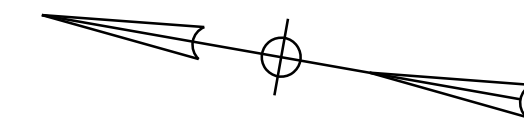


ELEVATION ~ ABUTMENT NO. 2

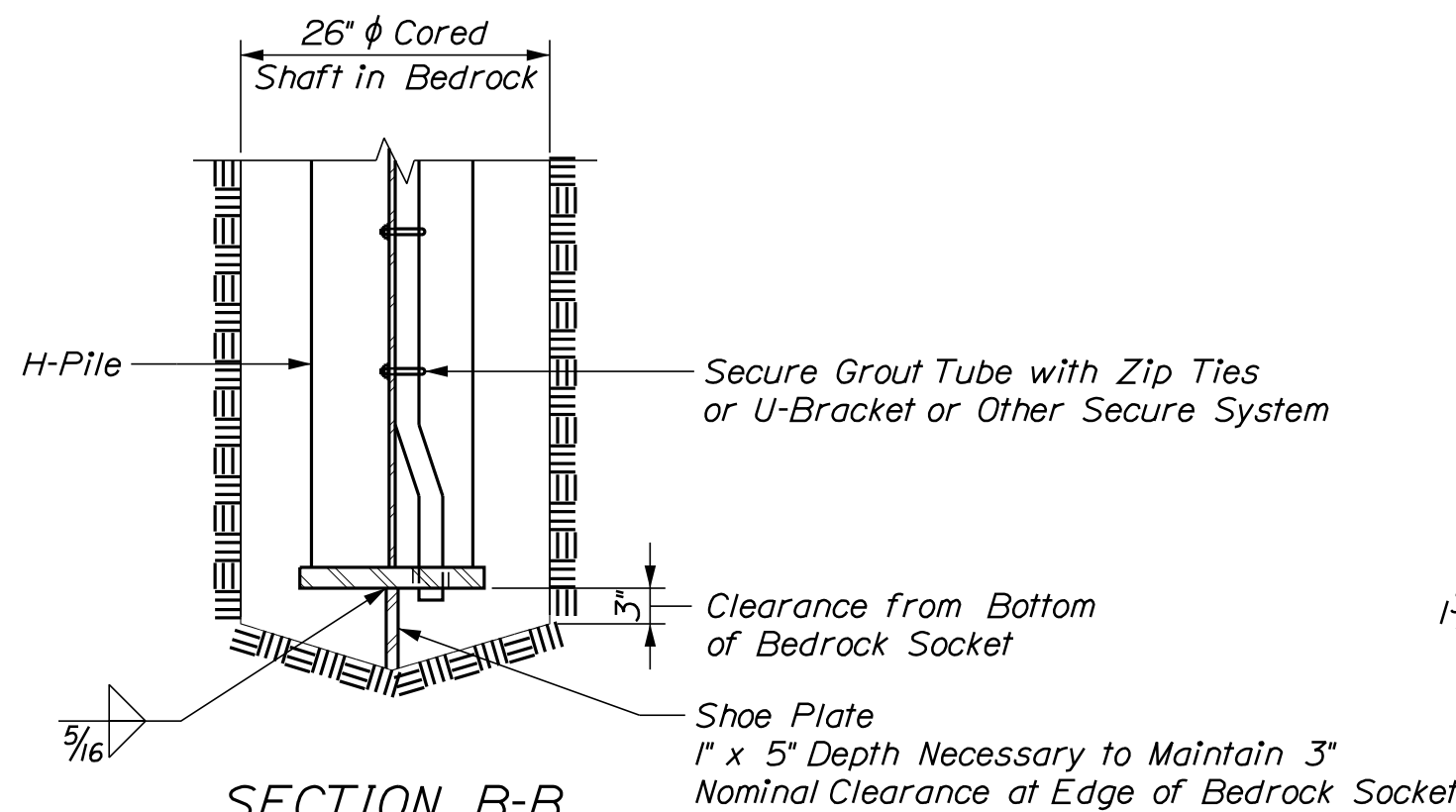


ABUTMENT SECTION

(Abutment No. 1 Shown, Abutment No. 2 Similar)

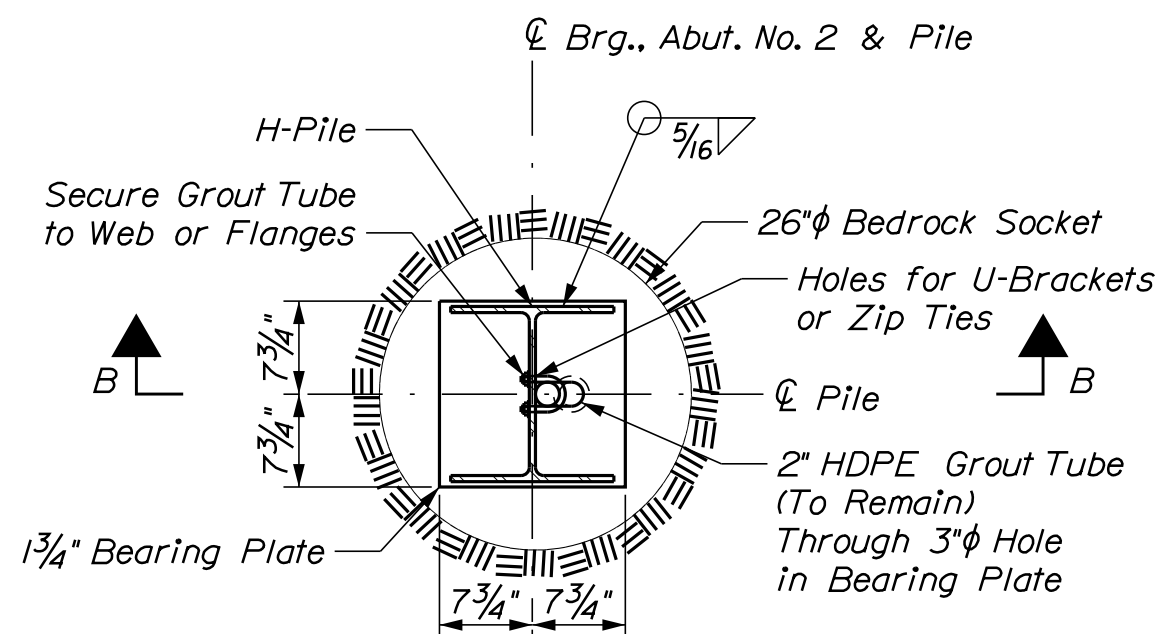


ROCK SOCKETED PILE DETAIL
(Abutment No. 2 Only)



SECTION B-B

(Shown prior to grouting)



SECTION A-A

(Shown prior to grouting)

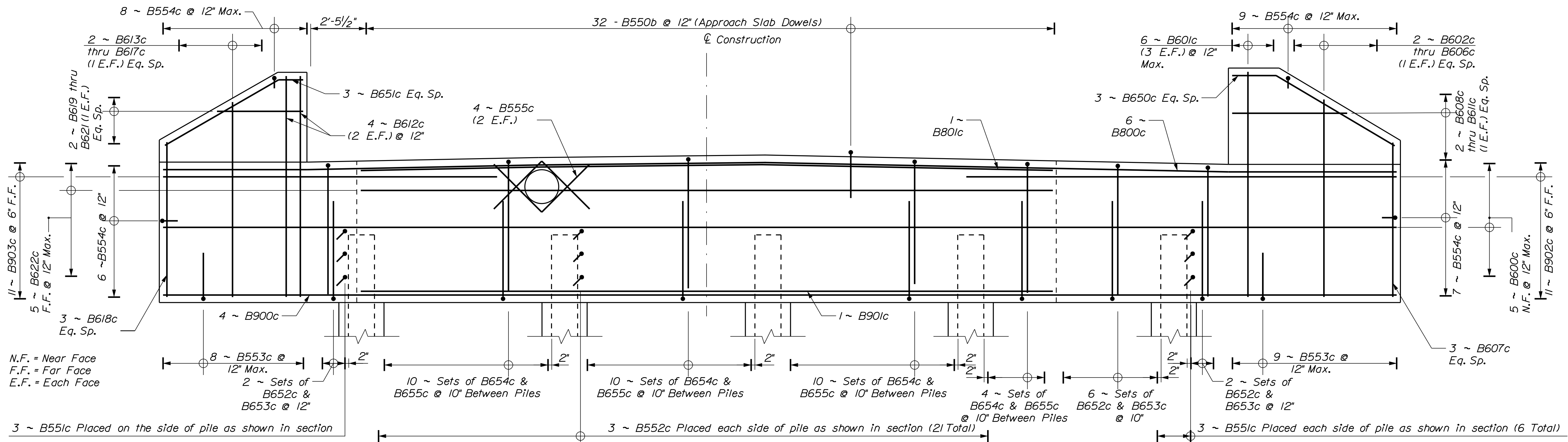
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BABBON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY										ABUTMENT NO. 2 PLAN AND ELEVATION										SHEET NUMBER 26 OF 32																			
PROJ. MANAGER										BENJER SMALL										BY										DATE									
DESIGN-DETAILED										K. WOOD										K. WOOD										4/20/24									
CHECKED-REVIEWED										A. FLOREN										M. KELLY										4/20/24									
DESIGN2-DETAILED2																																							
DESIGN3-DETAILED3																																							
REVISIONS 1																																							
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FIELD CHANGES																																							
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DATE																				DATE										7/26/2024									
PROFESSIONAL ENGINEER										K. WOOD										K. WOOD										7/26/24									
STATE OF MAINE										KEITH S. WOOD										KEITH S. WOOD										7/26/24									

Date:9/25/2024

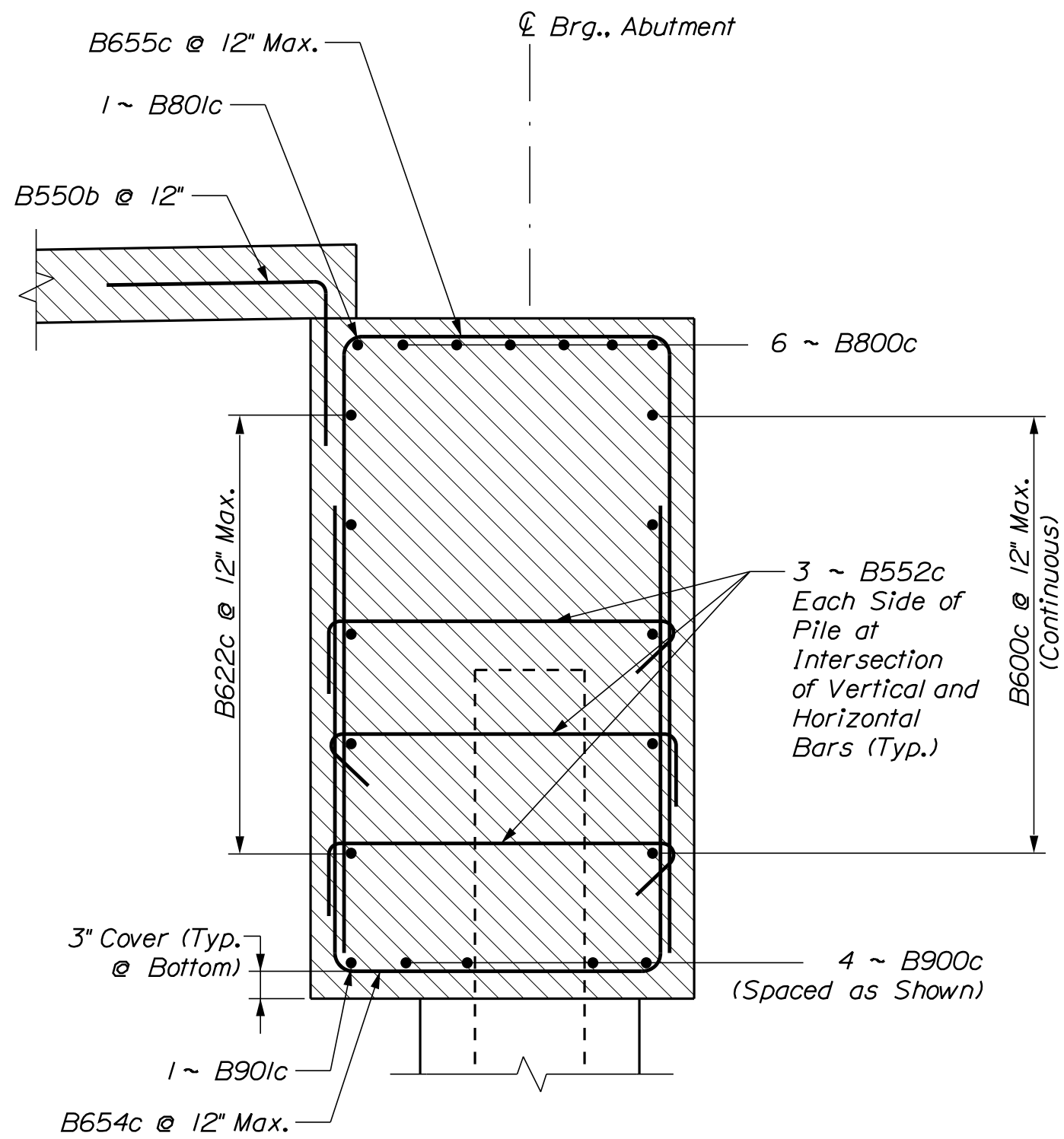
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Division: BRIDGE

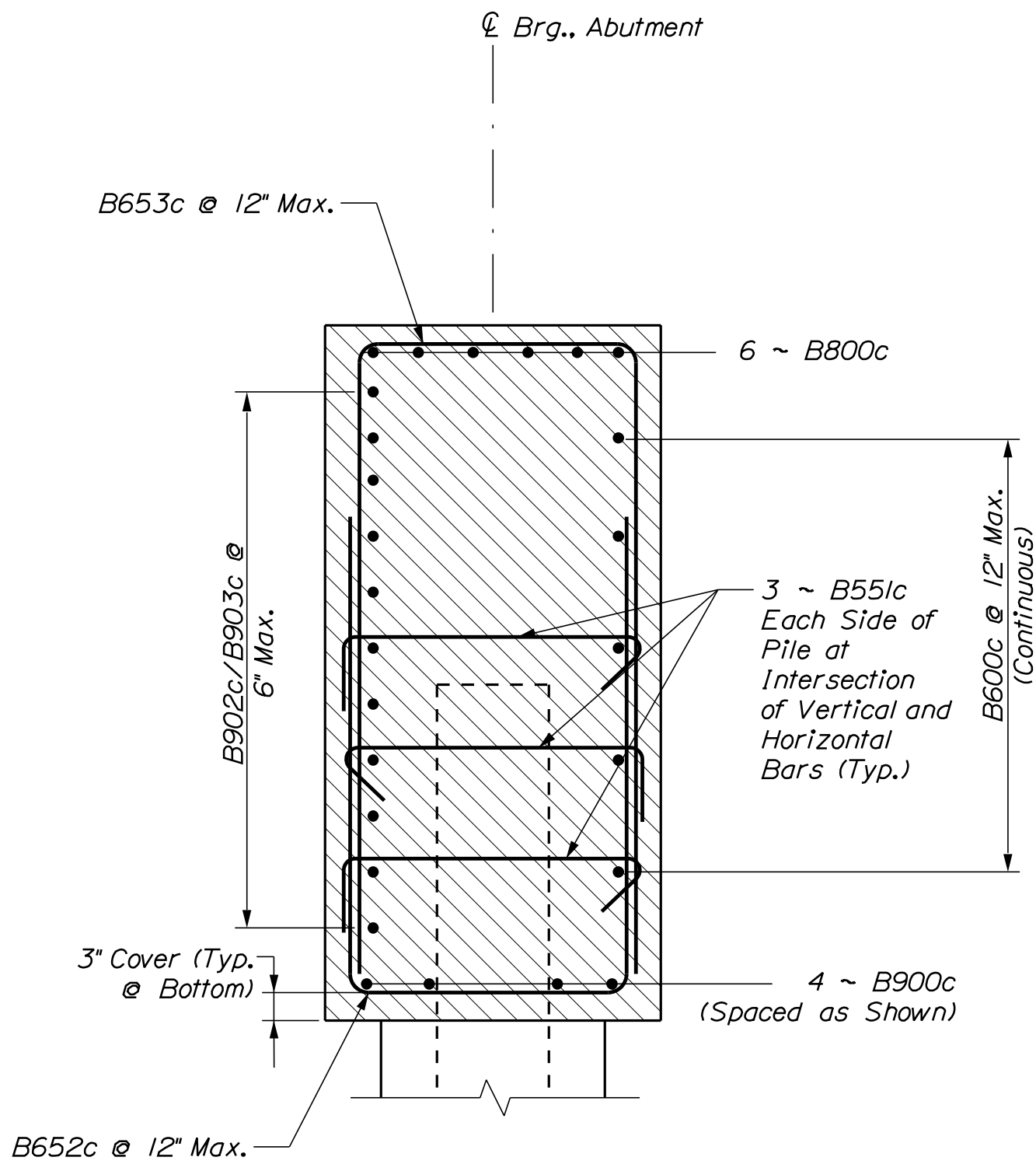
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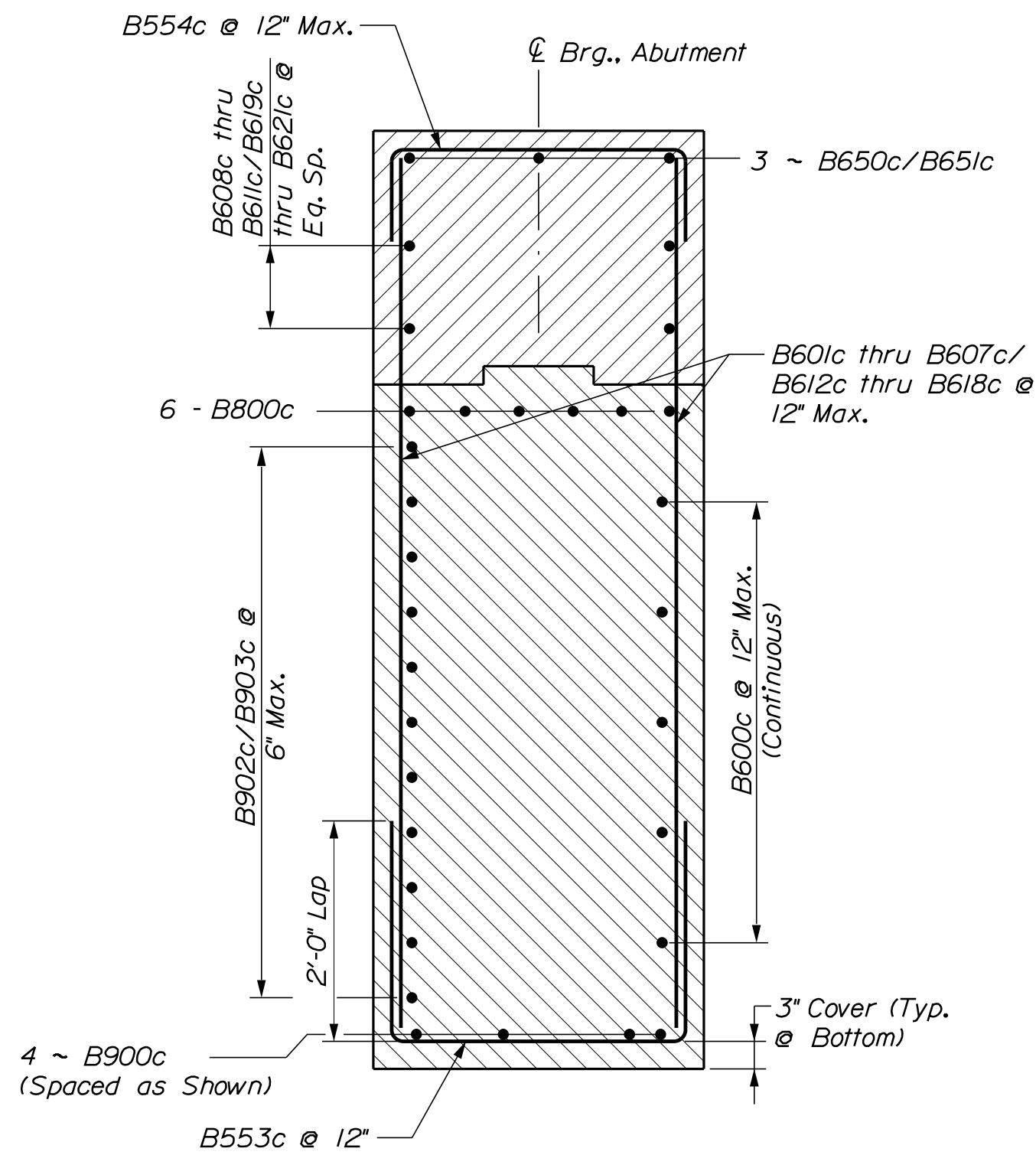
ELEVATION ~ ABUTMENT NO. 2



ABUTMENT SECTION AT APPROACH SLAB

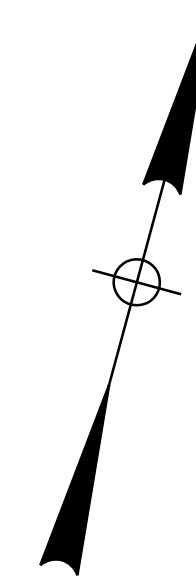


ABUTMENT SECTION



WINGWALL SECTION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION										02351500										WIN										023515.00										BRIDGE NO. 5244										BRIDGE PLANS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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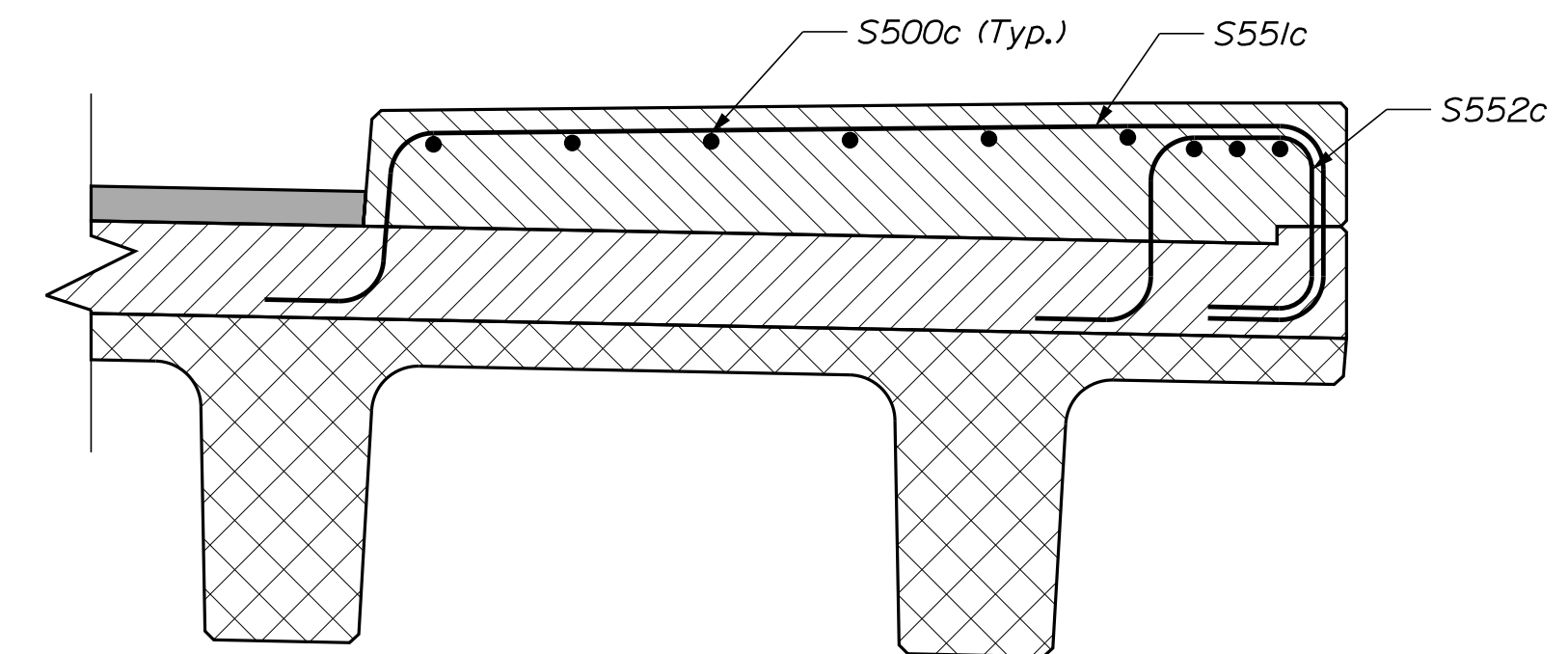
This cross-section detail illustrates the bridge superstructure assembly. The total width is 40'-9". The components and dimensions from left to right are:

- Left Side:** 1'-8" wide concrete curb with 3-Bar Steel Traffic/Bicycle Bridge Railing. A 9" reveal is shown between the curb and the travelway.
- Shoulder:** 5'-0" wide, covered with 3" Hot Mix Asphalt with High Performance Waterproofing Membrane.
- Travelway:** Two 11'-0" wide sections, also covered with 3" Hot Mix Asphalt with High Performance Waterproofing Membrane. A 2.0% slope is indicated.
- Centerline:** Marked with a dashed line and labeled "C Construction".
- Right Side:** 5'-0" wide shoulder, 5'-6" wide sidewalk with 4-Bar Steel Traffic/Pedestrian Bridge Railing, and a 1'-7" wide concrete curb. A 7" reveal is shown between the shoulder and the sidewalk.
- Base:** A Structural Concrete Slab (8" Min.) supported by girders. A Sanitary Sewer Line is shown below the slab.

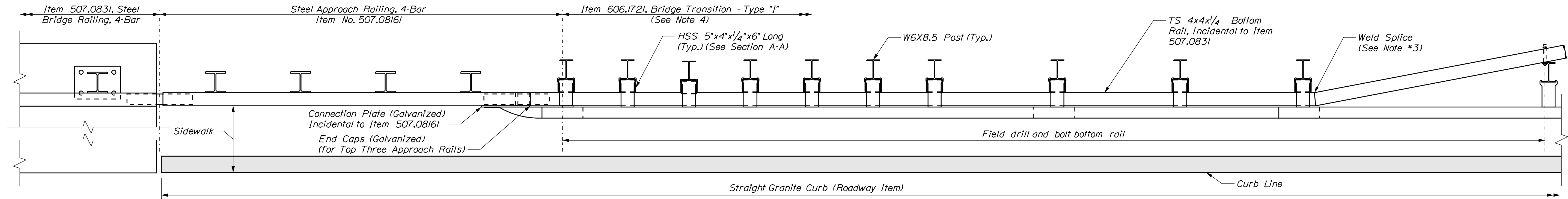
Detail Build Superstructure
 See General Note 24, Sheet 3

PROPOSED BRIDGE SECTION

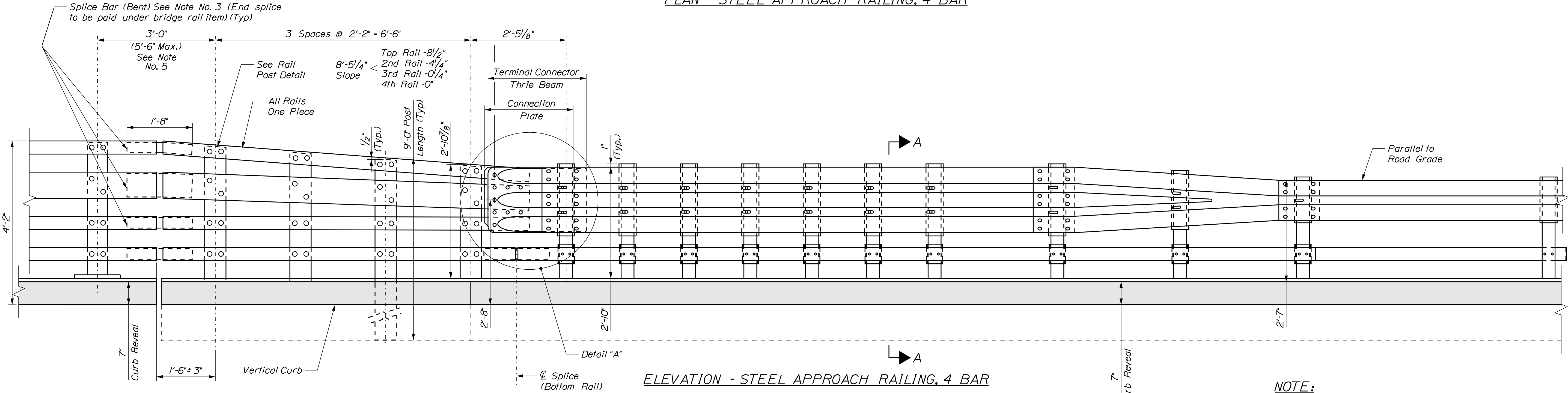
1. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
2. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab and between the cast-in-place slab and the detail build superstructure.
3. The superstructure slab and end diaphragm concrete shall be placed in one continuous operation and shall be kept plastic until the entire placement has been made.
4. The Detail Build Superstructure option shall have a minimum clear span of 53 feet and a low chord at or above elevation 10.40.
5. For the precast beam detail build options, the bearing elevations and deck thickness shall be adjusted in accordance with Special Provision 535, Precast, Prestressed Concrete Superstructure, Camber.
6. Both top and bottom mats of deck reinforcing shall be placed parallel to the finished profile. reinforcing steel shall have a constant top cover of 2 inches. Bottom concrete cover may be variable with a minimum cover of 1 1/2-inch.
7. End diaphragm concrete will be paid for under Pay Item 531.51I, Bridge Superstructure - Detail Build and shall be placed with the deck.
8. Place one piece of 1/2-inch thick preformed expansion joint filler between the end diaphragm and wingwall parapet. Expansion joint filler shall extend from the bridge seat to 1/2-inch below the top of wingwall parapet and the full wingwall parapet thickness. The preformed expansion joint filler shall be sealed with 1/2-inch by 1/2-inch silicone joint sealant minus 1/2-inch on each side. The preformed expansion joint filler and silicone joint sealant will be considered incidental to Pay Item 531.51I, Bridge Superstructure - Detail Build.
9. The Contractor shall alternate splice locations of all bars.
10. The concrete sidewalk shall be constructed per Standard Detail 502I(06), except the dimension from the top of the wearing surface to the top of the curb shall be 7 inches.
11. The Membrane Waterproofing shall wrap down over the end diaphragm and one foot onto the approach slab. The Contractor shall form a 6" x 6" mortared chamfer between the approach slab and the end diaphragm. Payment for mortared chamfer shall be considered incidental to Pay Item 508.14, High Performance Waterproofing Membrane.



CURB REINFORCING SECTION



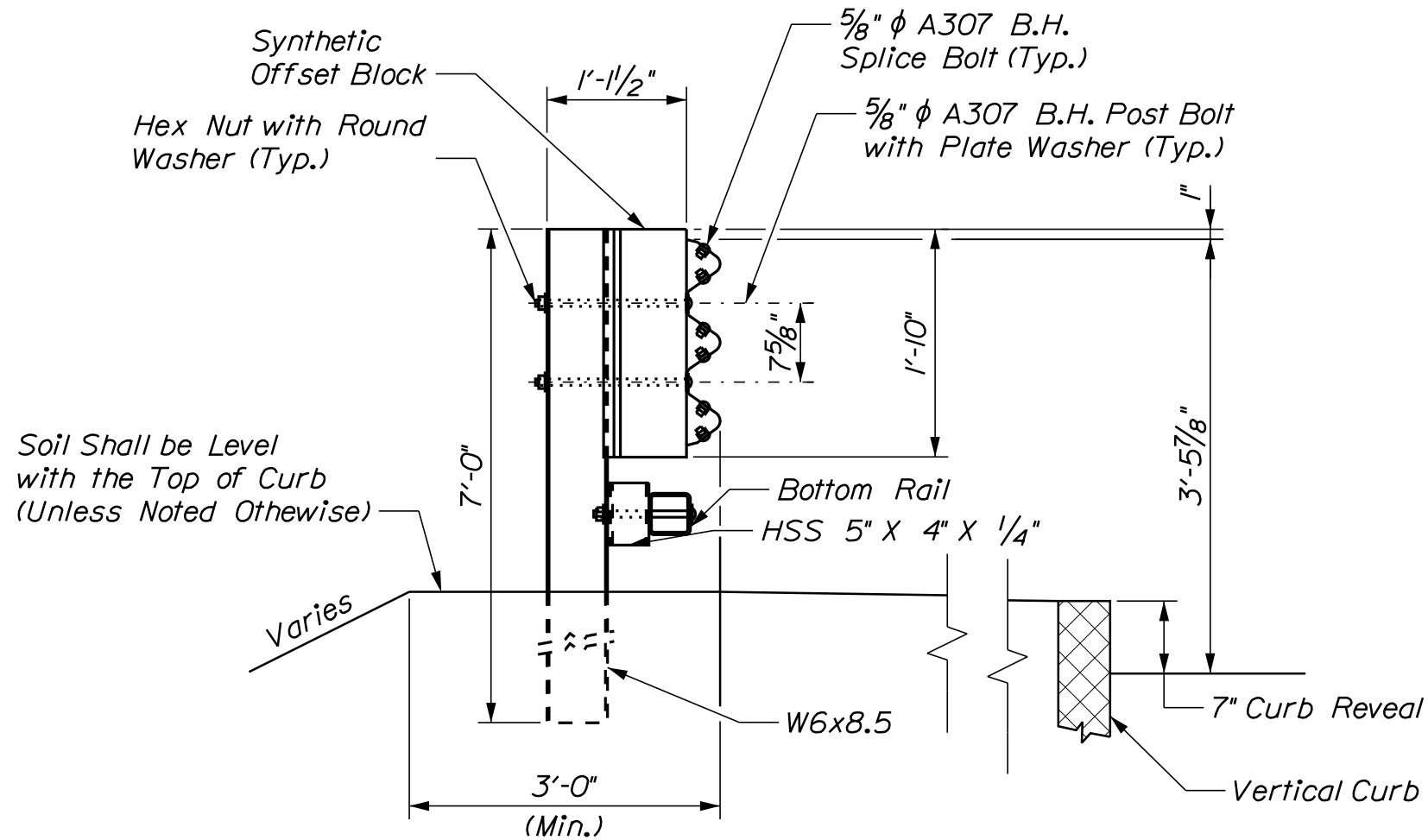
PLAN - STEEL APPROACH RAILING, 4 BAR



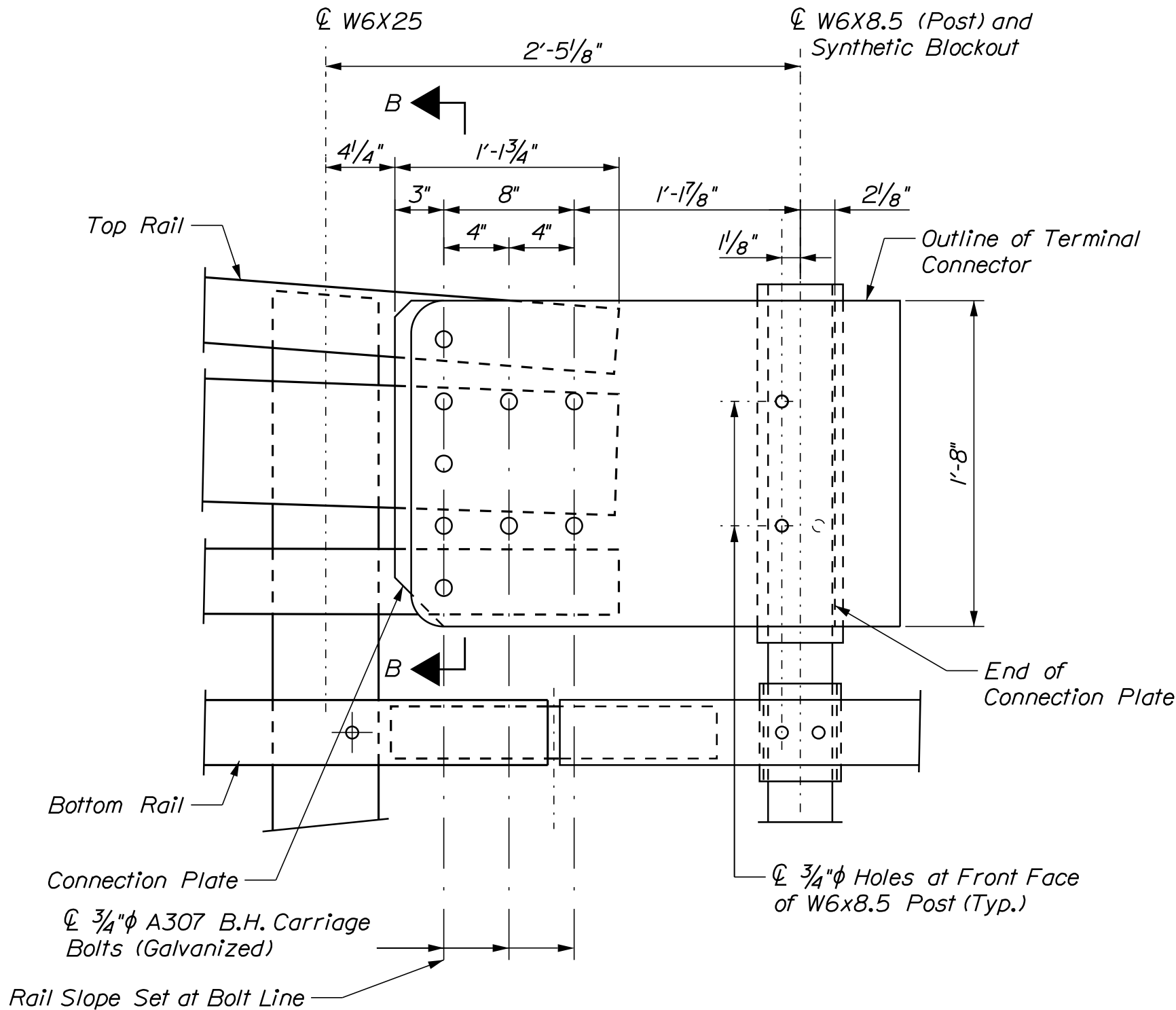
ELEVATION - STEEL APPROACH RAILING, 4 BAR

NOTE:

1. All bridge approach rail materials, dimensions and sizes shall be the same as those of the bridge rail, unless otherwise noted. See MaineDOT Standard Details Section 507, Bridge Rail for additional information.
2. Carriage bolts shall be ASTM A307, and nuts shall be ASTM A563 Grade A or better (galvanized).
3. Weld splice bar to fit bend. Use complete joint penetration butt weld.
4. Standard Bridge Transition may require longer posts to account for higher rail height. No additional payment will be made for this modification.
5. Three foot spacing to first post on bridge is standard. For longer expansion joints, the first post on the bridge may be located up to 5'-6" from the previous post in the approach.
6. Dimensions shown are designed to accommodate a 7" reveal bridge curb with a battered face. Dimensions shall be adjusted to fit other situations as required.
7. For additional details, refer to MaineDOT Standard Details Section 507 for 3-Bar Rail. For Section B-B, refer to Standard Detail 507(24).

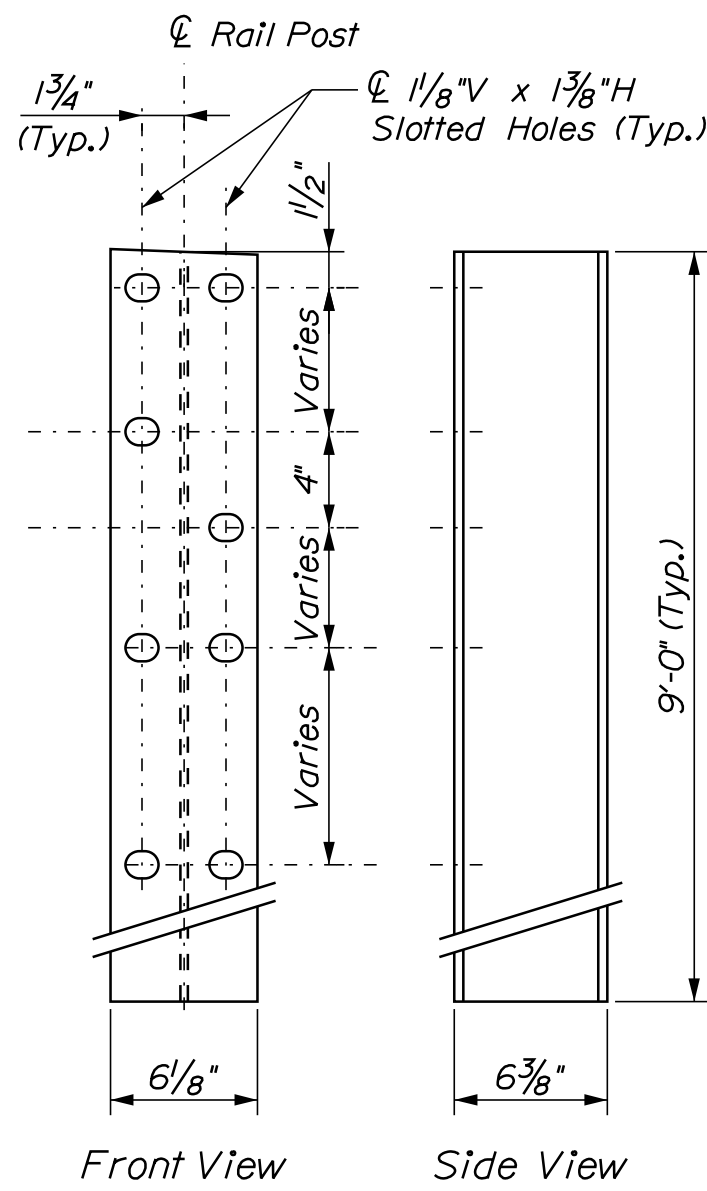


SECTION A-A (POST RAIL ASSEMBLY)



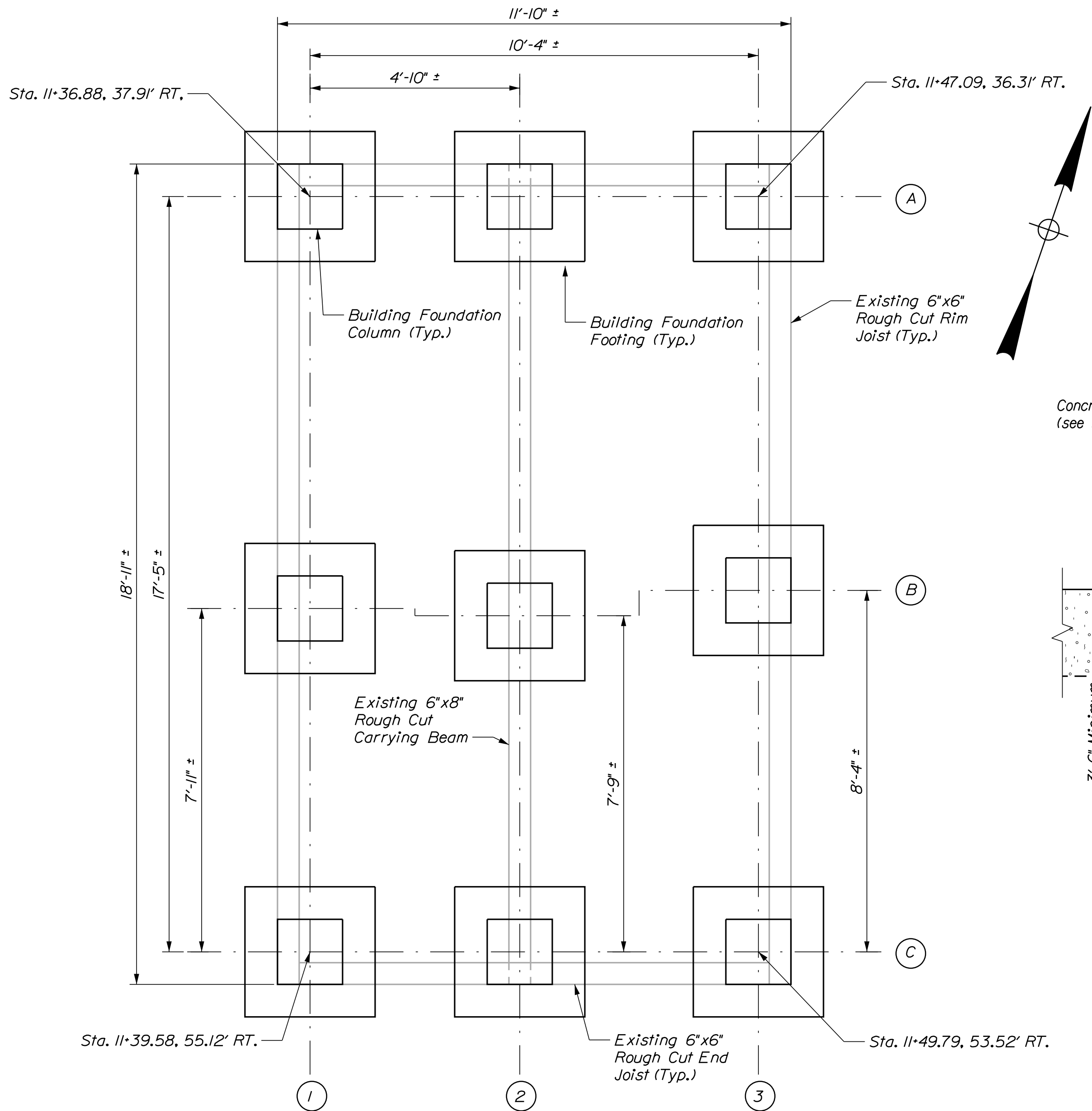
DETAIL A

(Overlapping of Double nested Thrie-Beam not Shown for Clarity)

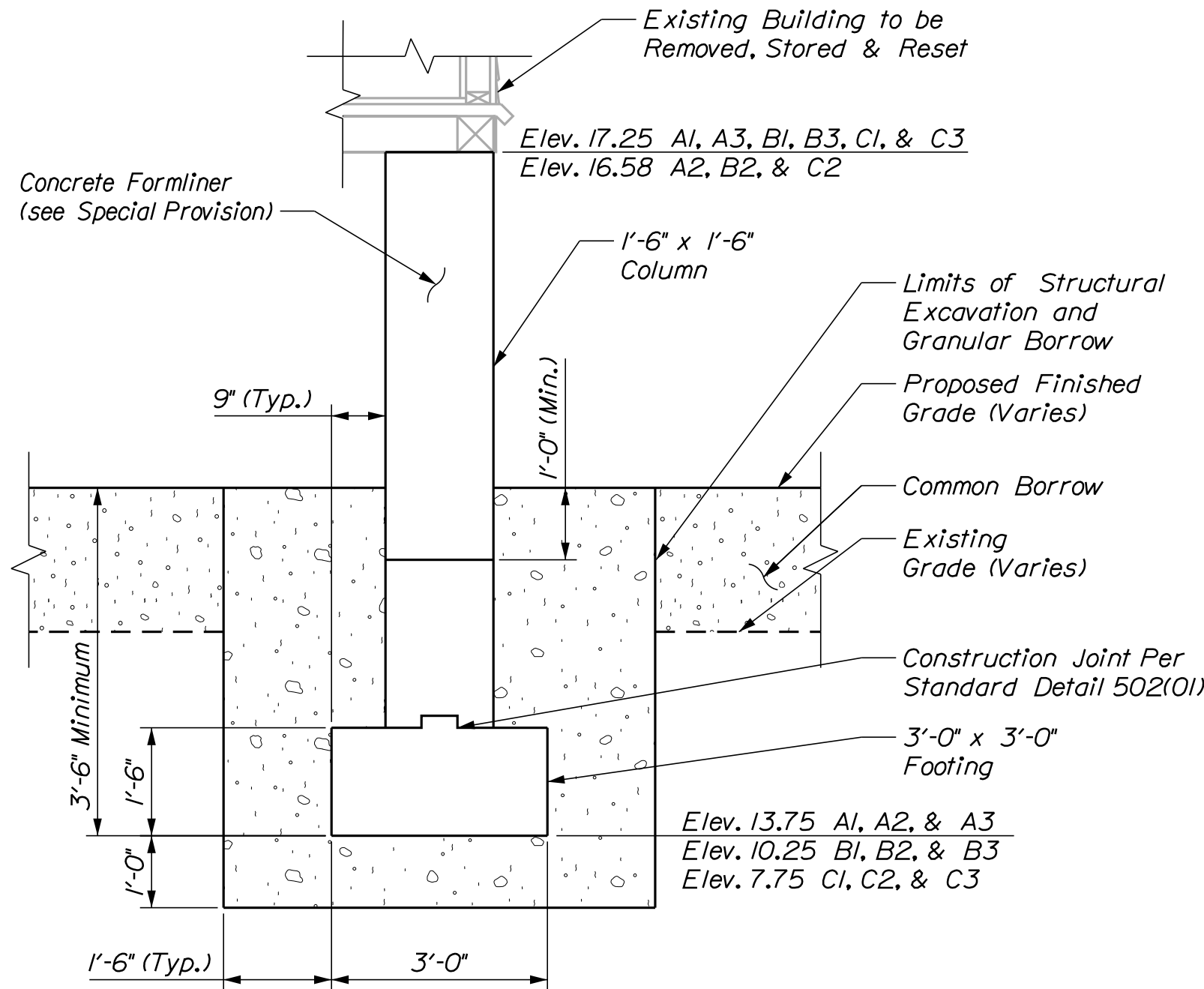


RAIL POST (W6x25)

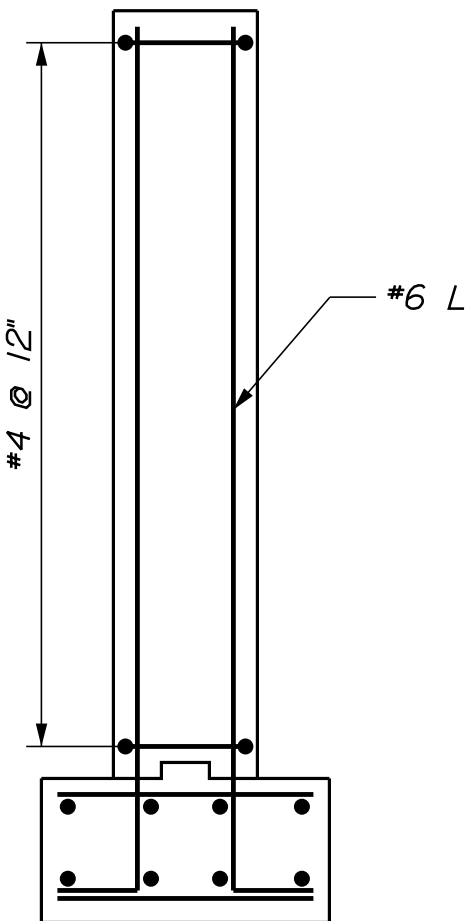
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02351500		BRIDGE PLANS	
BABS ON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY		SIGNATURE 10/23 P.E. NUMBER 41601004		WIN 023515.00 BRIDGE NO. 5244	
SHEET NUMBER 29		DATE 4/20/24		DATE 4/20/24	
STEEL APPROACH RAILING 4-BAR		FIELD CHANGES		FIELD CHANGES	



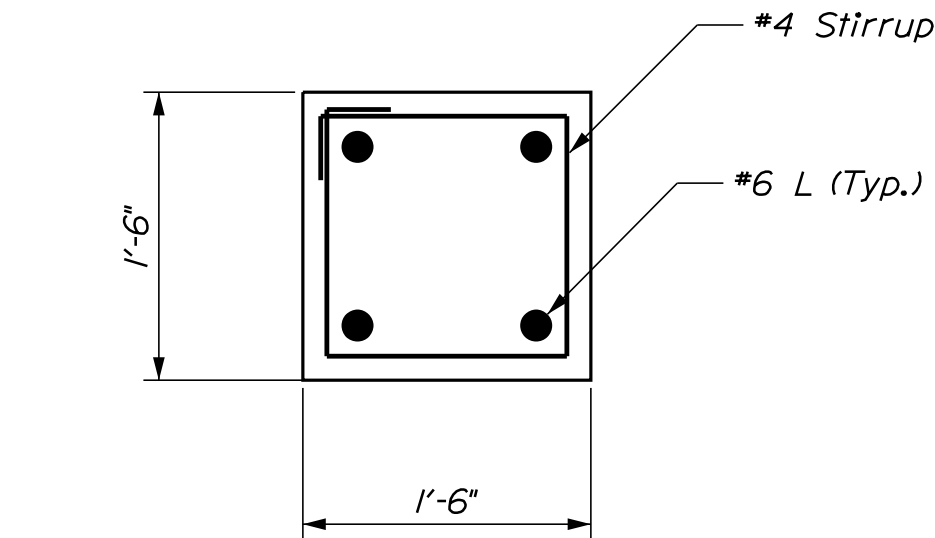
BUILDING FOUNDATION LAYOUT



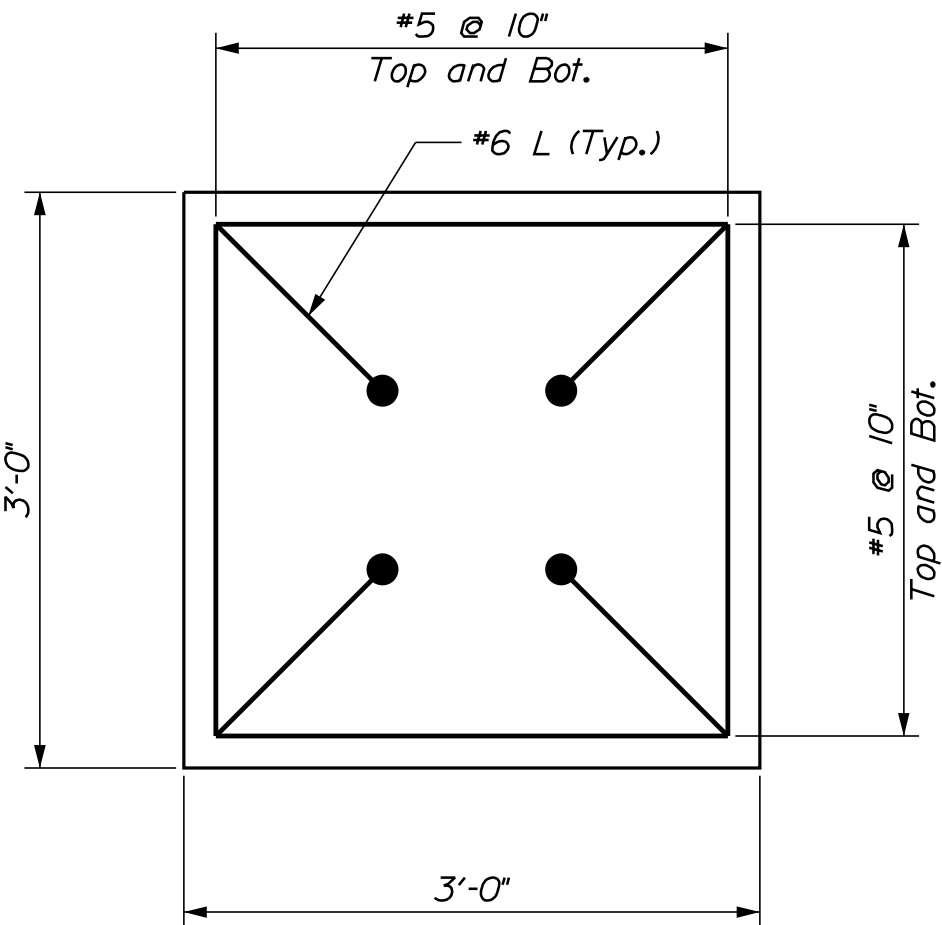
TYPICAL BUILDING FOUNDATION SECTION



TYPICAL BUILDING FOUNDATION REINFORCEMENT



BUILDING FOUNDATION COLUMN REINFORCEMENT



BUILDING FOUNDATION FOOTING REINFORCEMENT

FOUNDATION NOTES

1. The maximum factored applied footing pressure is 1.55 ksf at the Strength I Limit State.
2. Structural Earth Excavation required more than 12 inches below the bottom of the footings will be paid for in accordance with Standard Specifications Section 206, Structural Excavation.
3. Building foundations shall be backfilled with Granular Borrow. Pay limits will be as shown in the details on this sheet.
4. Reinforcing steel shall have a minimum concrete cover of 2 inches in the walls and 3 inches in the footings unless otherwise noted.
5. The Contractor shall field verify all dimensions prior to the removal of the existing building. Any discrepancies shall be reported to the Resident.
6. Removing, storing, and resetting the existing building shall be per Special Provision Section 202, Removing, Storing, And Resetting Structures.
7. Building foundations shall be constructed per Special Provision Section 502, Structural Concrete, Miscellaneous Building Foundation.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02351500		WIN 023515.00		BRIDGE NO. 5244 BRIDGE PLANS	
BABBON BRIDGE KITTEREDGE BROOK MOUNT DESERT HANCOCK COUNTY		FOUNDATION FOR RESET BUILDING		SHEET NUMBER 30 OF 32			
PROJ. MANAGER DENVER SMALL K. WOOD		BY K. WOOD M. KELLY		DATE 4/2024		SIGNATURE K. S. WOOD 10423 10/11/2024	
DESIGN-DETAILED A. FLOREN		CHECKED-REVIEWED A. FLOREN		DESIGN-DETAILED A. FLOREN		P.E. NUMBER 10423 10/11/2024	
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	

Date:9/25/2024

Username:

Division: BRIDGE

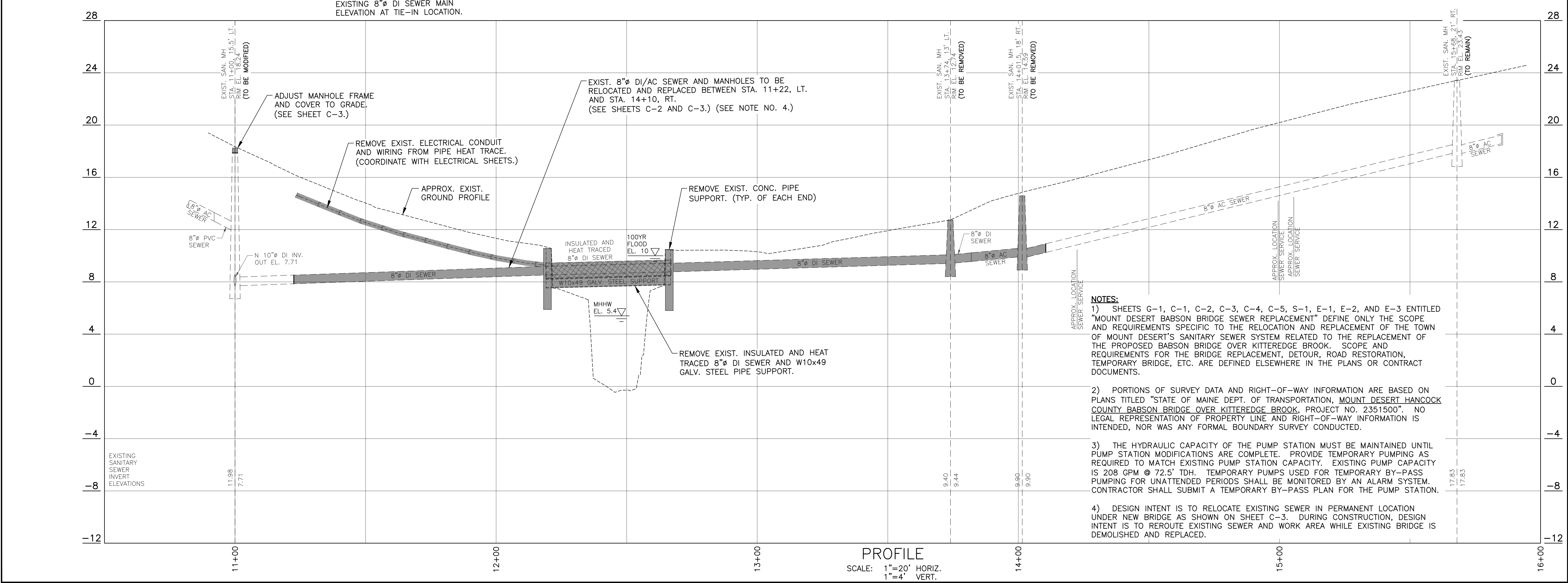
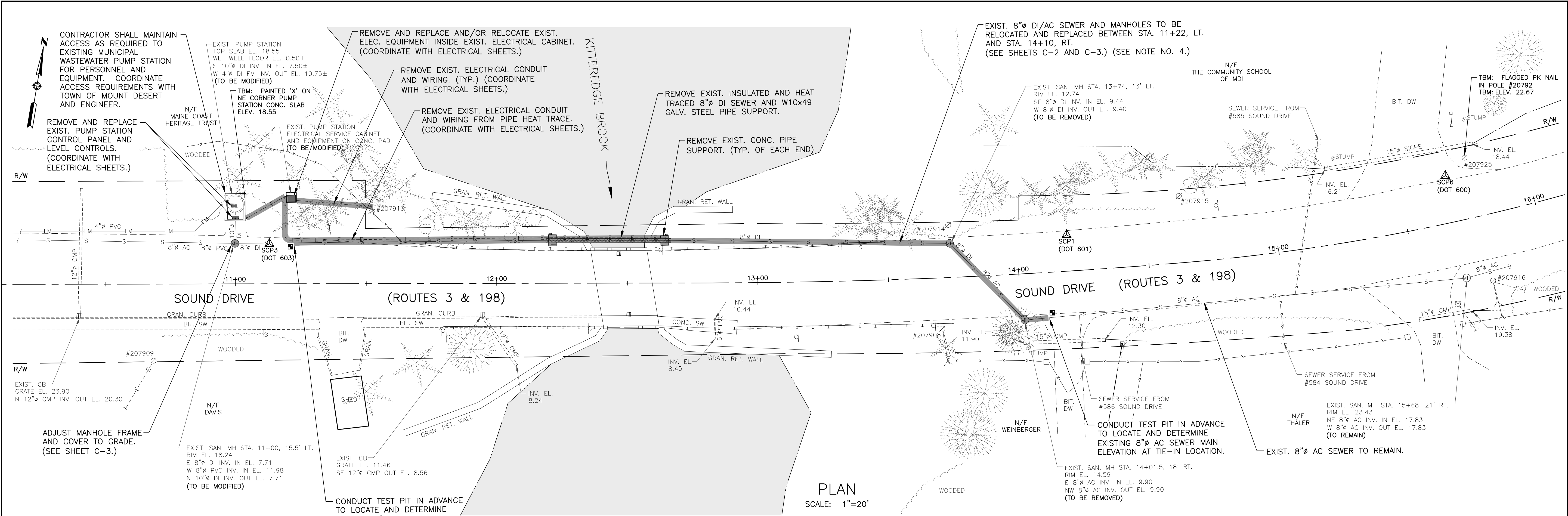
Filename: ... \BRIDGE\WSTA\031_Rebar.dgn

STRAIGHT BARS							BENT BARS																		
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION			
			Abutment No. 1												Abutment No. 1										
A500c	8	3'-6"	Sanitary Sewer Main Blockout					A550b	32	4'-0"	L	2'-0"	2'-0"										Approach Slab Dowels		
A600c	6	56'-11"	Abutment Horizontal Near Face					A551c	9	3'-8"	T	6"	2'-8"	5/2"									Abutment Cross Ties		
A601c	6	10'-6"	Wing Vertical					A552c	21	4'-2"	T	6"	3'-2"	5/2"									Abutment Cross Ties		
A602c	2	10'-0"	Wing Vertical					A553c	19	6'-8"	S	0"	2'-0"	2'-8"	2'-0"				0"				Abut Vert. Bot at Wingwalls		
A603c	2	9'-5"	Wing Vertical					A554c	33	4'-4"	S	0"	10"	2'-8"	10"				0"				Wingwall Vert. Top/Abut. Horz. End		
A604c	2	8'-10"	Wing Vertical																						
A605c	2	8'-3"	Wing Vertical					A650c	3	9'-7"	V				2'-0 1/2"	7'-6 1/2"				3'-10 1/4"		Wingwall Top			
A606c	2	7'-8"	Wing Vertical					A651c	3	8'-2"	V				1'-1"	7'-1"				3'-6 1/2"		Wingwall Top			
A607c	2	7'-1"	Wing Vertical					A652c	10	11'-2"	S	0"	4'-3"	2'-8"	4'-3"			0"				Abutment Vertical			
A607c	2	7'-1"	Wing Vertical					A653c	10	15'-0"	S	0"	6'-2"	2'-8"	6'-2"			0"				Abutment Vertical			
A608c	3	6'-8"	Wing Vertical					A654c	34	11'-8"	S	0"	4'-3"	3'-2"	4'-3"			0"				Abutment Vertical			
A609c	2	3'-1"	Wing Horizontal					A655c	34	15'-6"	S	0"	6'-2"	3'-2"	6'-2"			0"				Abutment Vertical			
A610c	2	4'-9"	Wing Horizontal																						
A611c	2	6'-6"	Wing Horizontal												Abutment No. 2										
A612c	2	8'-2"	Wing Horizontal																						
A613c	4	10'-4"	Wing Vertical					B550b	32	4'-0"	L	2'-0"	2'-0"									Approach Slab Dowels			
A614c	2	9'-11"	Wing Vertical					B551c	9	3'-8"	T	6"	2'-8"	5/2"								Abutment Cross Ties			
A615c	2	9'-5"	Wing Vertical					B552c	21	4'-2"	T	6"	3'-2"	5/2"								Abutment Cross Ties			
A616c	2	8'-11"	Wing Vertical					B553c	17	6'-8"	S	0"	2'-0"	2'-8"	2'-0"			0"				Abut Vert. Bot at Wingwalls			
A617c	2	8'-4"	Wing Vertical					B554c	30	4'-4"	S	0"	10"	2'-8"	10"			0"				Wingwall Vert. Top/Abut. Horz. End			
A618c	2	7'-10"	Wing Vertical					B555c	4	7'-0"	L	3'-6"	3'-6"					0"				Sanitary Sewer Main Blockout			
A619c	2	7'-4"	Wing Vertical																						
A620c	3	6'-10"	Wing Vertical					B650c	3	8'-2"	V				2'-0 1/2"	6'-11 1/2"				3'-11 1/2"		Wingwall Top			
A621c	2	1'-11"	Wing Horizontal					B651c	3	6'-2"	V				1'-1"	5'-1"				2'-11 1/4"		Wingwall Top			
A622c	2	3'-8"	Wing Horizontal					B652c	10	11'-2"	S	0"	4'-3"	2'-8"	4'-3"			0"				Abutment Vertical			
A623c	2	5'-4"	Wing Horizontal					B653c	10	14'-0"	S	0"	5'-8	2'-8"	5'-8"			0"				Abutment Vertical			
A624c	2	7'-1"	Wing Horizontal					B654c	34	11'-8"	S	0"	4'-3"	3'-2"	4'-3"			0"				Abutment Vertical			
A625c	6	30'-8"	Abutment Horizontal Far Face					B655c	34	14'-6"	S	0"	5'-8	3'-2"	5'-8			0"				Abutment Vertical			
A800c	6	56'-11"	Abutment Long. Top												Superstructure										
A801c	1	30'-8"	Abutment Long. Top																						
								S550c	84	5'-9 1/2"	SC	10"	1'-5"	1'-3 1/2"	1'-5"				10"		1'-4 1/2"		Curbs Transverse		
A900c	4	56'-11"	Abutment Long. Bottom					S551c	60	10'-11 1/2"	SB	10"	1'-2 1/2"	6'-8"	1'-5"	10"						Sidewalk Transverse			
A901c	1	30'-8"	Abutment Long. Bottom					S552c	24	5'-9"	S	10"	1'-5"	1'-3"	1'-5"				10"				Sidewalk Transverse		
A902c	12	20'-3"	Wingwall Long. Far Face																						
A903c	12	15'-10"	Wingwall Long. Far Face																						
			Abutment No. 2																						
B600c	5	54'-7"	Abutment Horizontal Near Face																						
B601c	6	9'-11"	Wing Vertical																						
B602c	2	9'-6"	Wing Vertical																						
B603c	2	9'-0"	Wing Vertical																						
B604c	2	8'-5"	Wing Vertical																						
B605c	2	7'-11"	Wing Vertical																						
B606c	2	7'-4"	Wing Vertical																						
B607c	3	6'-10"	Wing Vertical																						
B608c	2	3'-9"	Wing Horizontal																						
B609c	2	5'-5"	Wing Horizontal																						
B610c	2	7'-1"	Wing Horizontal																						
B611c	2	7'-3"	Wing Horizontal																						
B612c	4	9'-9"	Wing Vertical																						
B613c	2	9'-5"	Wing Vertical																						
B614c	2	8'-10"	Wing Vertical																						
B615c	2	8'-4"	Wing Vertical																						
B616c	2	7'-10"	Wing Vertical																						
B617c	2	7'-3"	Wing Vertical																						
B618c	3	6'-10"	Wing Vertical																						
B619c	2	3'-0"	Wing Horizontal																						
B620c	2	4'-9"	Wing Horizontal																						
B621c	2	6'-4"	Wing Horizontal																						
B622c	5	30'-8"	Abutment Horizontal Far Face																						
B800c	6	54'-7"	Abutment Long. Top																						
B801c	1	30'-8"	Abutment Long. Top																						
B900c	4	54'-7"	Abutment Long. Bottom																						
B901c	1	30'-8"	Abutment Long. Bottom																						
B902c	11	19'-1"	Wingwall Long. Far Face																						
B903c	11	14'-10"	Wingwall Long. Far Face																						
			Superstructure																						
S500c	12	58'-9"	Sidewalk & Curb Longitudinal																						
			Approach Slab																						
AS501b	32	30'-8"	Transverse																						

This figure is a detailed engineering plan for State Highway "257" in Mount Desert, Maine. The plan shows the proposed highway alignment, existing right-of-way, and various easements. Key features include:

- Plan Legend:** Defines symbols for existing and proposed features such as roads, utilities, structures, and vegetation.
- Scale:** A graphic scale bar indicates distances from 0 to 100 feet.
- Curve Data #1 and #2:** Provides technical details for the horizontal curves along the alignment.
- Parcel Information:** Details five parcels held in reserve or owned by private parties, including their areas and easement requirements.
- Geographic Context:** Shows the highway's proximity to Babson Creek, Kitteredge Brook, and Sound Drive.
- Revisions:** A table at the bottom left tracks changes to the plan, listing dates, descriptions, and responsible personnel.
- Title Block:** Identifies the project as State Highway "257" and provides contact information for the Department of Transportation.

X:\ossec\Projects\MD\2193 Babson Bridge Sewer Crossing\WDOT SUBMISSION-FINAL\2193 EXIST SEWER.dwg, 10/6/2024 1:32:21 PM, 1:1



- NOTES:**
- 1) SHEETS G-1, C-1, C-2, C-3, C-4, C-5, S-1, E-1, E-2, AND E-3 ENTITLED "MOUNT DESERT BABSON BRIDGE SEWER REPLACEMENT" DEFINE ONLY THE SCOPE AND REQUIREMENTS SPECIFIC TO THE RELOCATION AND REPLACEMENT OF THE TOWN OF MOUNT DESERT'S SANITARY SEWER SYSTEM RELATED TO THE REPLACEMENT OF THE PROPOSED BABSON BRIDGE OVER KITTEREDGE BROOK. SCOPE AND REQUIREMENTS FOR THE BRIDGE REPLACEMENT, DETOUR, ROAD RESTORATION, TEMPORARY BRIDGE, ETC. ARE DEFINED ELSEWHERE IN THE PLANS OR CONTRACT DOCUMENTS.
 - 2) PORTIONS OF SURVEY DATA AND RIGHT-OF-WAY INFORMATION ARE BASED ON PLANS TITLED "STATE OF MAINE DEPT. OF TRANSPORTATION, MOUNT DESERT HANCOCK COUNTY BABSON BRIDGE OVER KITTEREDGE BROOK, PROJECT NO. 2351500". NO LEGAL REPRESENTATION OF PROPERTY LINE AND RIGHT-OF-WAY INFORMATION IS INTENDED, NOR WAS ANY FORMAL BOUNDARY SURVEY CONDUCTED.
 - 3) THE HYDRAULIC CAPACITY OF THE PUMP STATION MUST BE MAINTAINED UNTIL PUMP STATION MODIFICATIONS ARE COMPLETE. PROVIDE TEMPORARY PUMPING AS REQUIRED TO MATCH EXISTING PUMP STATION CAPACITY. EXISTING PUMP CAPACITY IS 208 GPM @ 72.5' TDH. TEMPORARY PUMPS USED FOR TEMPORARY BY-PASS PUMPING FOR UNATTENDED PERIODS SHALL BE MONITORED BY AN ALARM SYSTEM. CONTRACTOR SHALL SUBMIT A TEMPORARY BY-PASS PLAN FOR THE PUMP STATION.
 - 4) DESIGN INTENT IS TO RELOCATE EXISTING SEWER IN PERMANENT LOCATION UNDER NEW BRIDGE AS SHOWN ON SHEET C-3. DURING CONSTRUCTION, DESIGN INTENT IS TO REROUTE EXISTING SEWER AND WORK AREA WHILE EXISTING BRIDGE IS DEMOLISHED AND REPLACED.

PROJECT NO. 023515.00

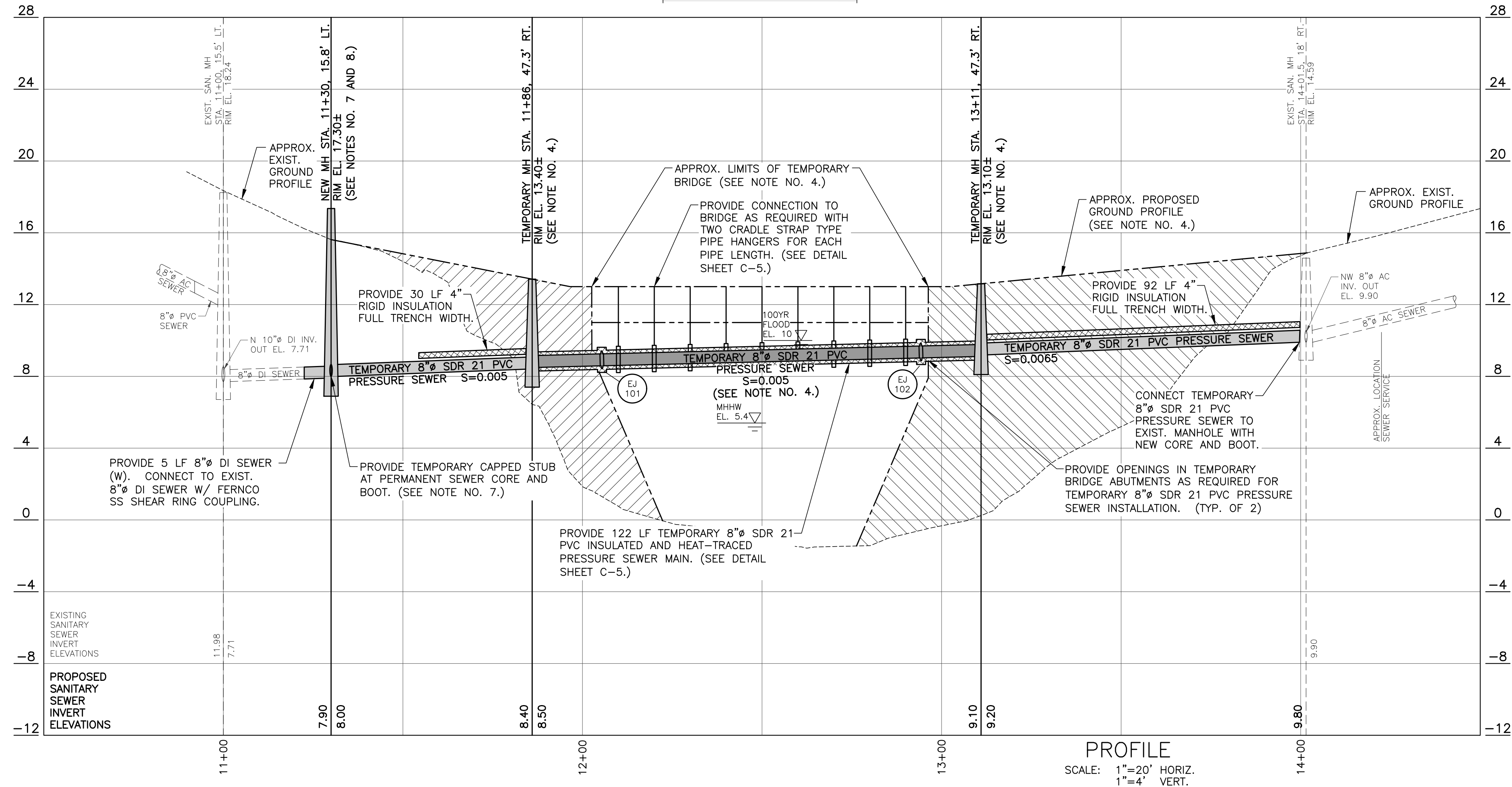
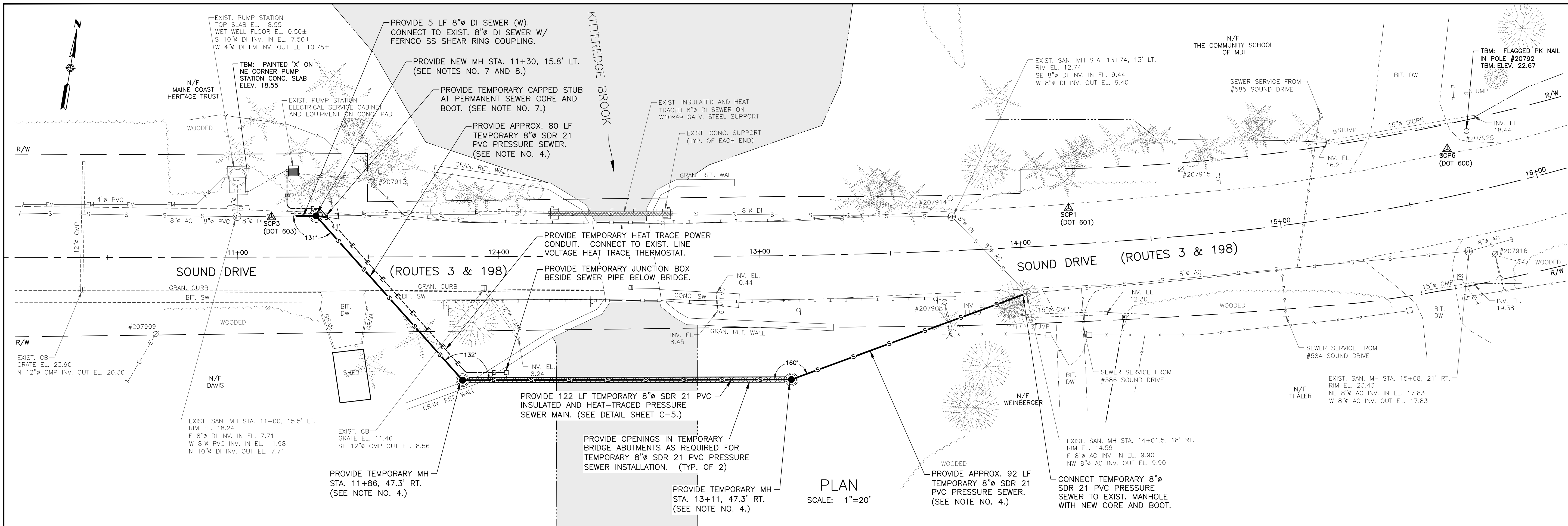
OLVER ASSOCIATES INC.
ENVIRONMENTAL ENGINEERS
290 MAIN STREET
WINTERPORT, MAINE

DATE		ADDITION OR REVISION	
DESIGN	NWD	DATE	
SCALE	AS NOTED	DATE	
DATE	AUGUST, 2024	DATE	

TOWN OF MOUNT DESERT, MAINE
MOUNT DESERT BABSON BRIDGE
SEWER REPLACEMENT

EXISTING SEWER
PLAN & PROFILE

SHEET NUMBER
C-1



NOTES:

1) SHEETS C-1, C-2, C-3, C-4, C-5, S-1, E-1, E-2, AND E-3 ENTITLED "MOUNT DESERT BABSON BRIDGE SEWER REPLACEMENT" DEFINE ONLY THE SCOPE AND REQUIREMENTS SPECIFIC TO THE RELOCATION AND REPLACEMENT OF THE TOWN OF MOUNT DESERT'S SANITARY SEWER SYSTEM RELATED TO THE REPLACEMENT OF THE EXISTING BABSON BRIDGE OVER KITTREGE BROOK. SCOPE AND REQUIREMENTS FOR THE BRIDGE REPLACEMENT, DETOUR, ROAD RESTORATION, TEMPORARY BRIDGE, ETC. ARE DEFINED ELSEWHERE IN THE PLANS OR CONTRACT DOCUMENTS.

2) PORTIONS OF SURVEY DATA AND RIGHT-OF-WAY INFORMATION ARE BASED ON PLANS TITLED "STATE OF MAINE DEPT. OF TRANSPORTATION, MOUNT DESERT HANCOCK COUNTY BARSON BRIDGE OVER KITTEREDGE BROOK, PROJECT NO. 2351500". NO LEGAL REPRESENTATION OF PROPERTY LINE AND RIGHT-OF-WAY INFORMATION IS INTENDED, NOR WAS ANY FORMAL BOUNDARY SURVEY CONDUCTED.

3) DESIGN INTENT IS TO PROVIDE SDR 21 PVC PRESSURE SEWER PIPE FOR GRAVITY SEWER APPLICATION AT TEMPORARY BRIDGE CROSSING.

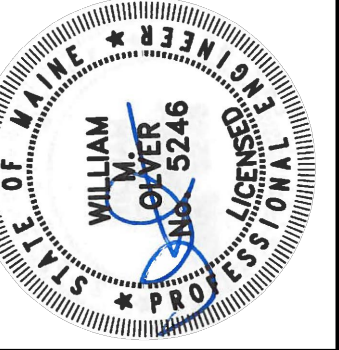
4) TEMPORARY BRIDGE AND ROAD LOCATION, TEMPORARY BRIDGE LIMITS, AND PROPOSED GROUND PROFILE ARE APPROXIMATE AND CONCEPTUAL. INTENT IS TO SUSPEND 8" SDR 21 PVC PRESSURE SEWER PIPE FROM PROPOSED TEMPORARY BRIDGE AND PROVIDE OPENINGS IN TEMPORARY RETAINING WALL BRIDGE ABUTMENTS AS REQUIRED FOR TEMPORARY 8" SDR 21 PVC PRESSURE SEWER WITH A MINIMUM SLOPE OF 5=0.005.

5) CONTRACTOR IS RESPONSIBLE TO MONITOR AND MAINTAIN
TEMPORARY SEWER FOR CONTINUED SEWER SERVICE.

6) TEMPORARY BRIDGE SYSTEM PROPOSED BY CONTRACTOR TO BE REVIEWED ONCE SUBMITTED AND ENGINEER WILL ADJUST PROPOSED DESIGN TO ACTUAL PROPOSED SYSTEM IF NECESSARY.

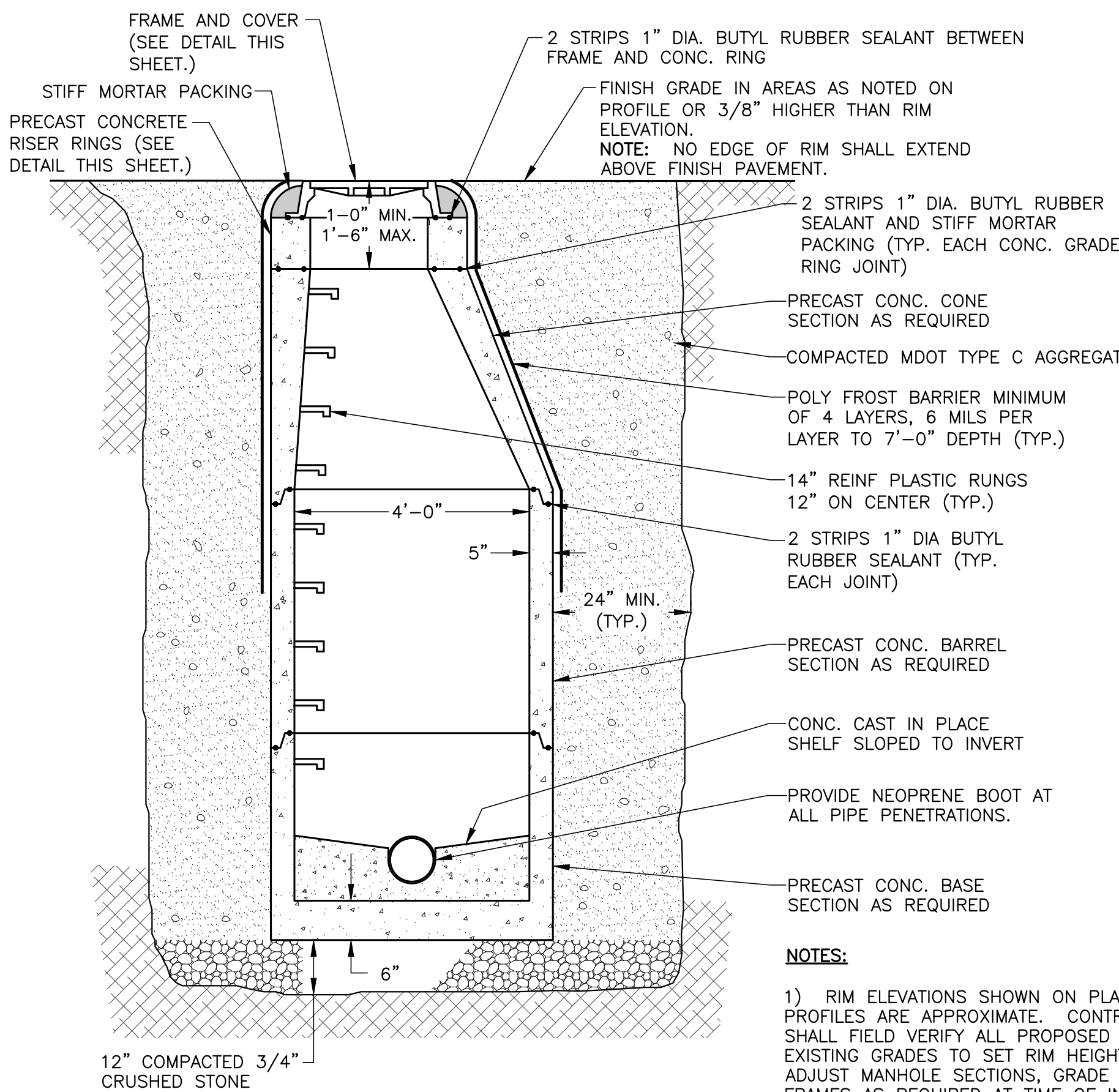
7) PROVIDE ADDITIONAL CORE AND BOOT IN NEW MH STA. 11+30, 15.8' RT. AS REQUIRED FOR TEMPORARY SEWER. DESIGN INTENT IS TO USE MANHOLE FOR BOTH TEMPORARY AND PERMANENT SEWERS. CONTRACTOR SHALL REMOVE TEMPORARY SEWER AND CAP AT MANHOLE UPON COMPLETION OF PERMANENT SEWER INSTALLATION. (SEE DETAIL SHEET C-4.)

8) RIM ELEVATION OF NEW MH STA. 11+30, 15.8' RT. IS BASED ON PROPOSED FINISH ROAD GRADE.

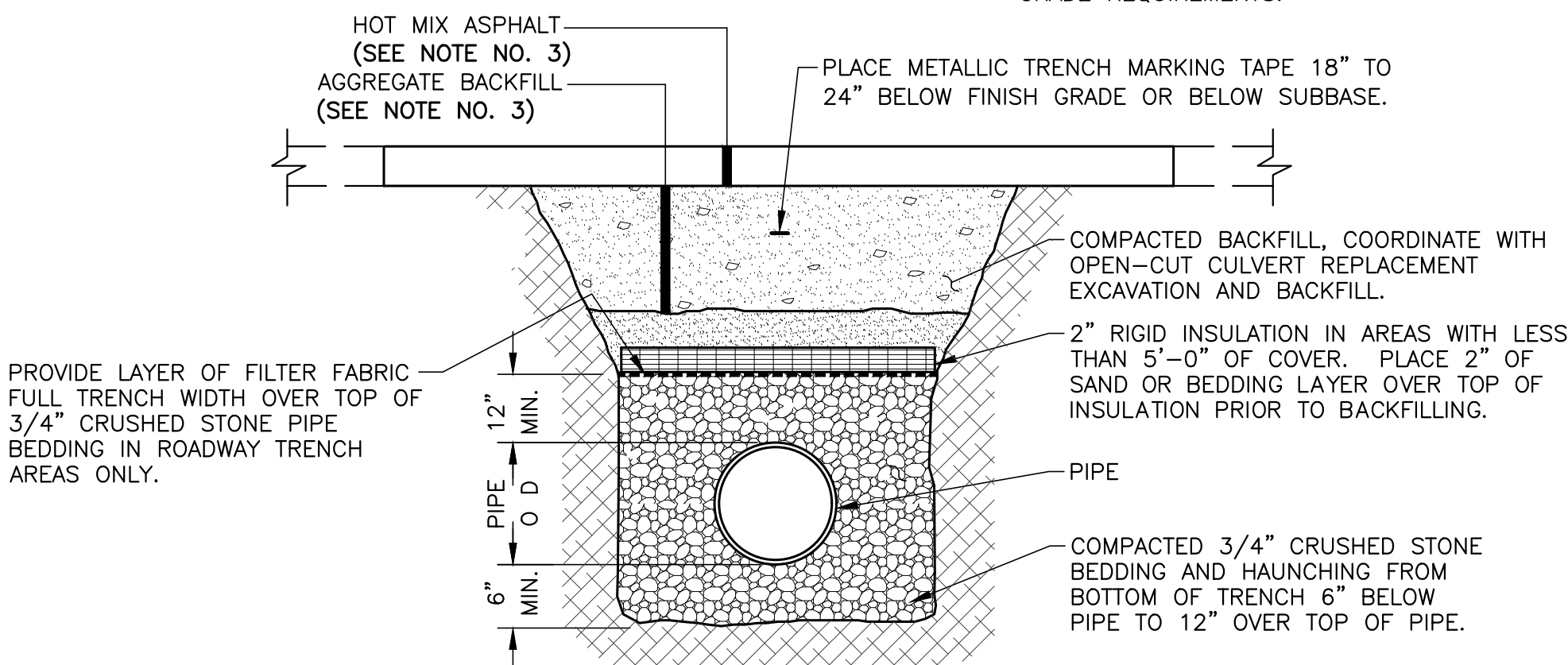


DATE		ADDITION OR REVISION			
DES. BY:	NWD	DR. BY:	NWD	CK. BY:	WMO
SCALE:	AS NOTED	OA PROJECT NO.:		2193	
DATE:	AUGUST, 2024	SHEET:		C-2	

X:\cassac\Projects\W01\2193 Babsons Bridge Sewer Crossing\W01 SUBMISSION-FINAL\2193 DETAILS.dwg, 10/6/2024 1:32:25 PM, 1:1



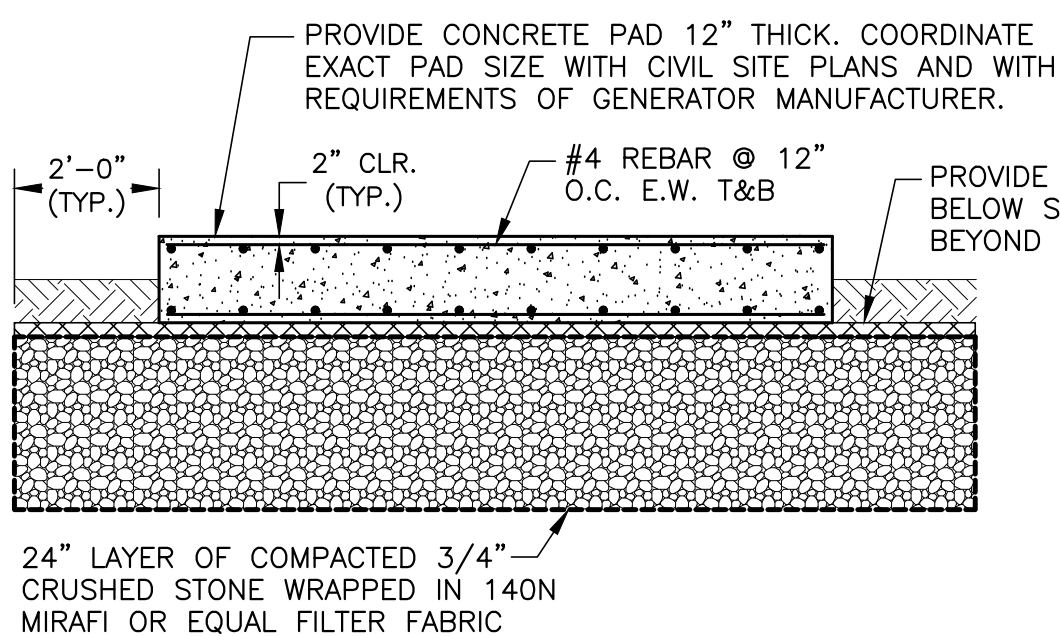
PRECAST MANHOLE DETAIL



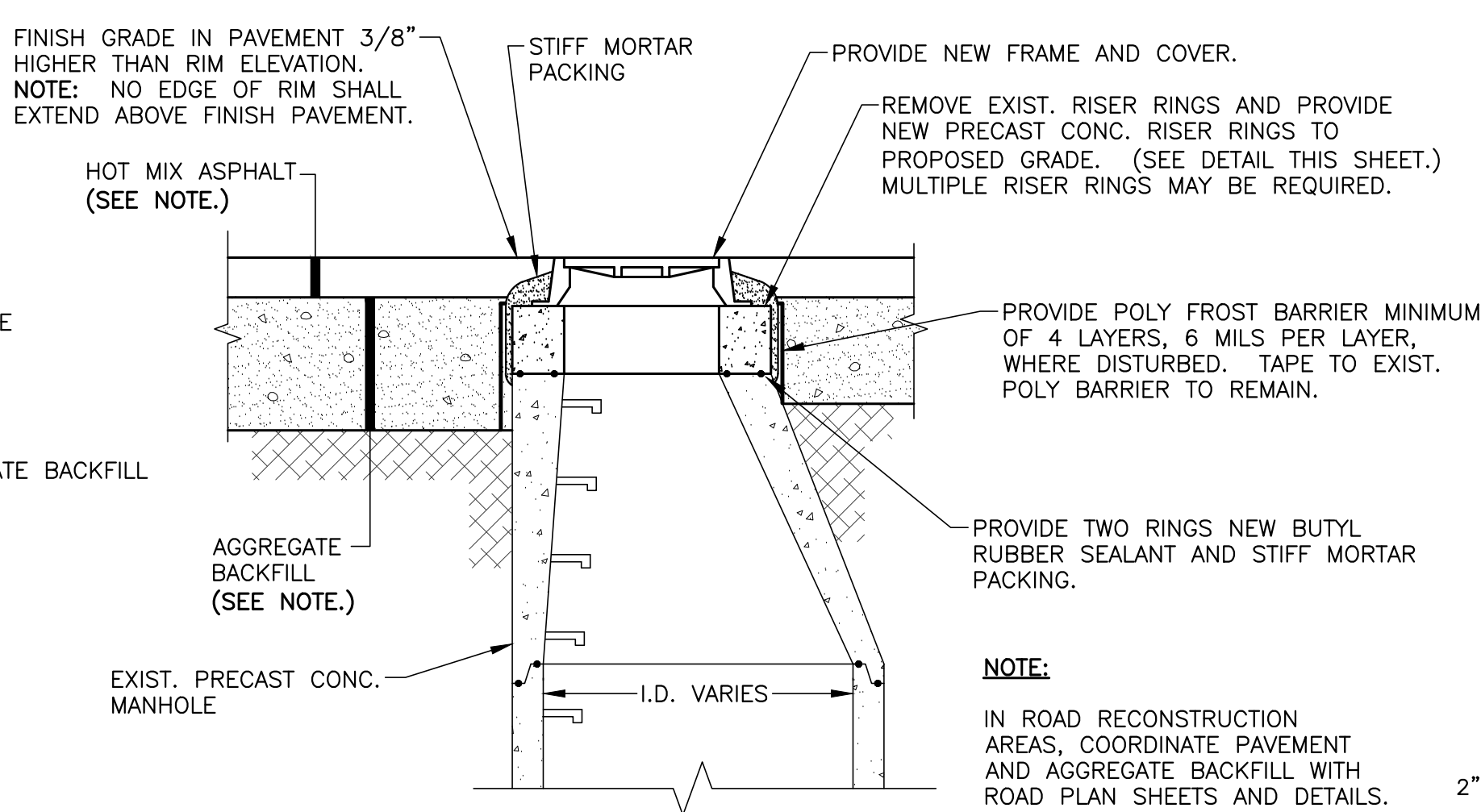
TYPICAL SEWER TRENCH DETAIL FOR FULL ROAD RECONSTRUCTION AREA

NOTES:

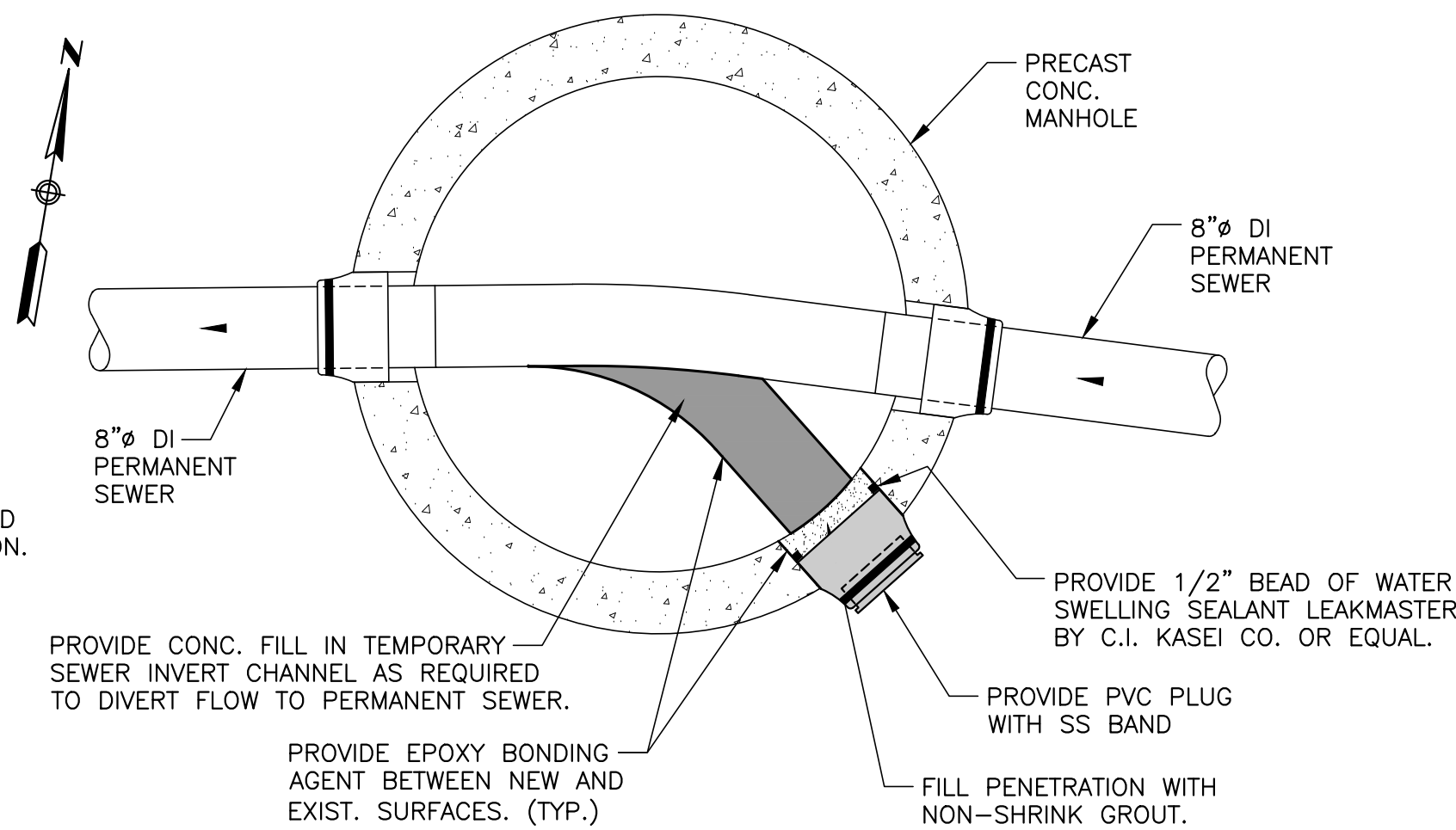
- COORDINATE SEWER TRENCH BACKFILL REQUIREMENTS WITH FULL ROAD CONSTRUCTION AREAS AS SHOWN ON THE ROAD PLAN SHEETS.
- MAINTAIN UNIFORM TRENCH WIDTH TO 12" OVER PIPE.
- IN ROAD RECONSTRUCTION AREAS, COORDINATE PAVEMENT AND AGGREGATE BACKFILL WITH ROAD PLAN SHEETS AND DETAILS.



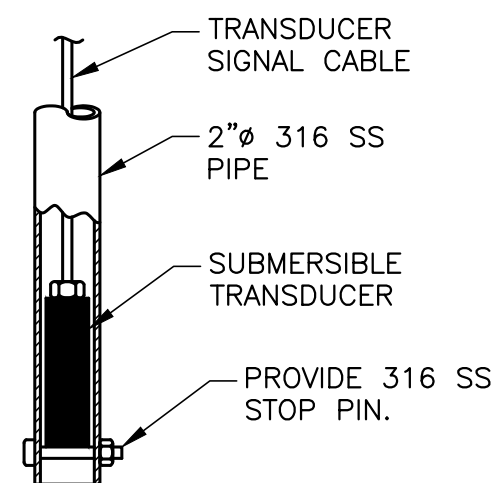
EMERGENCY GENERATOR PAD DETAIL



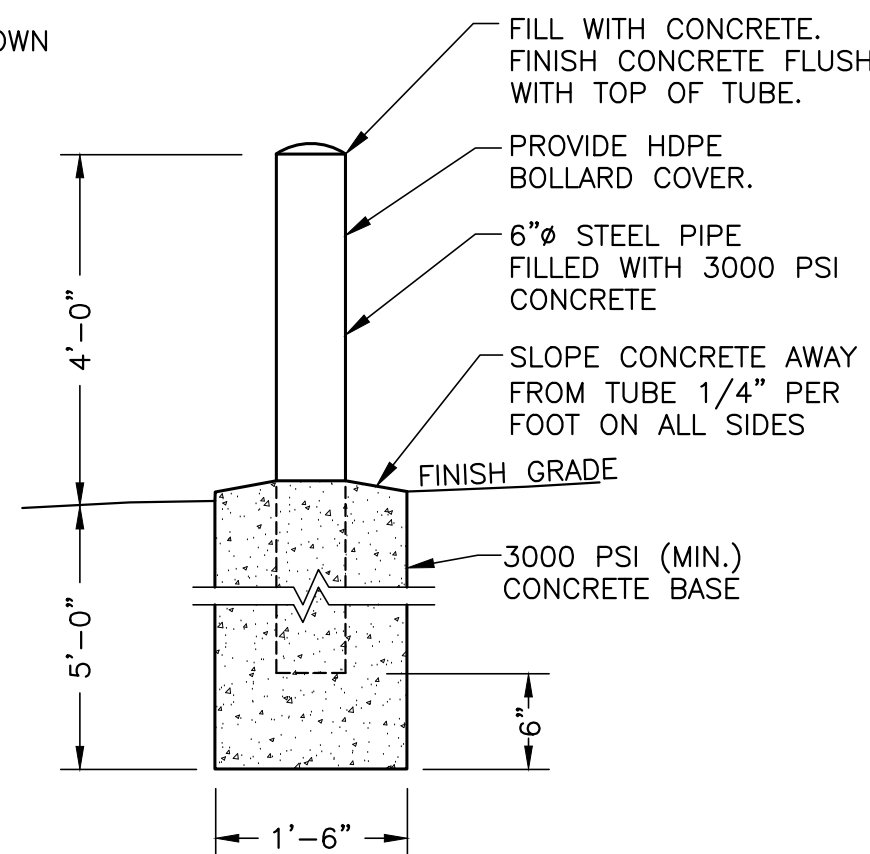
PRECAST MANHOLE RAISING DETAIL



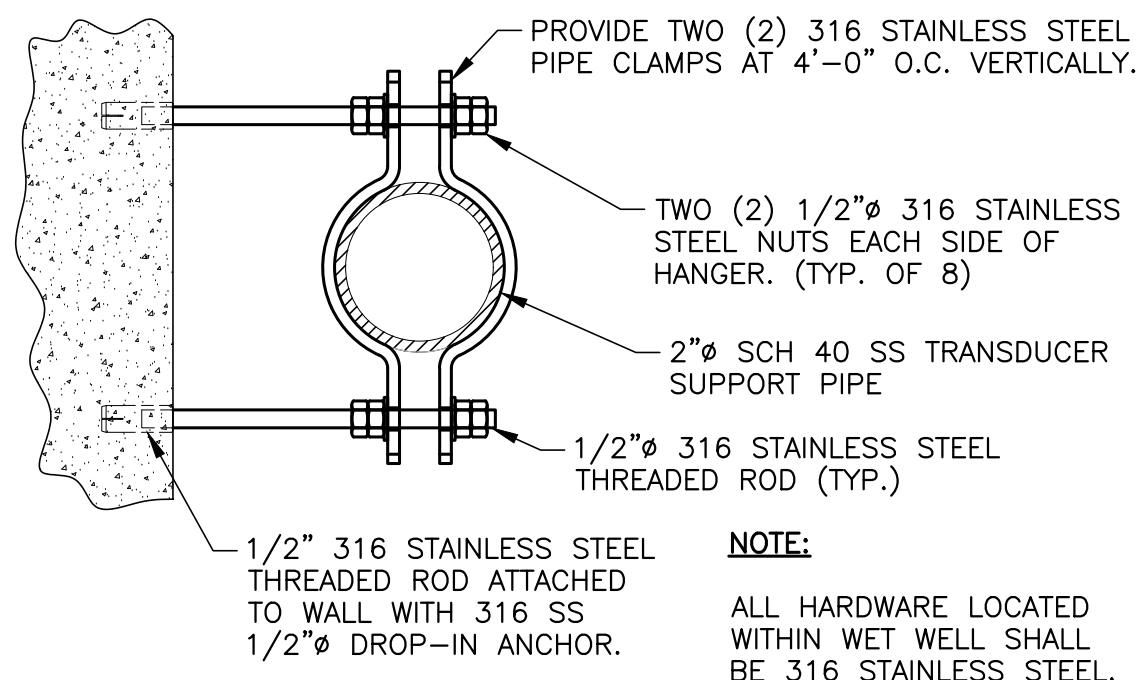
NEW MH STA. 11+30, 15.8' LT. TEMPORARY SEWER REPAIR DETAIL



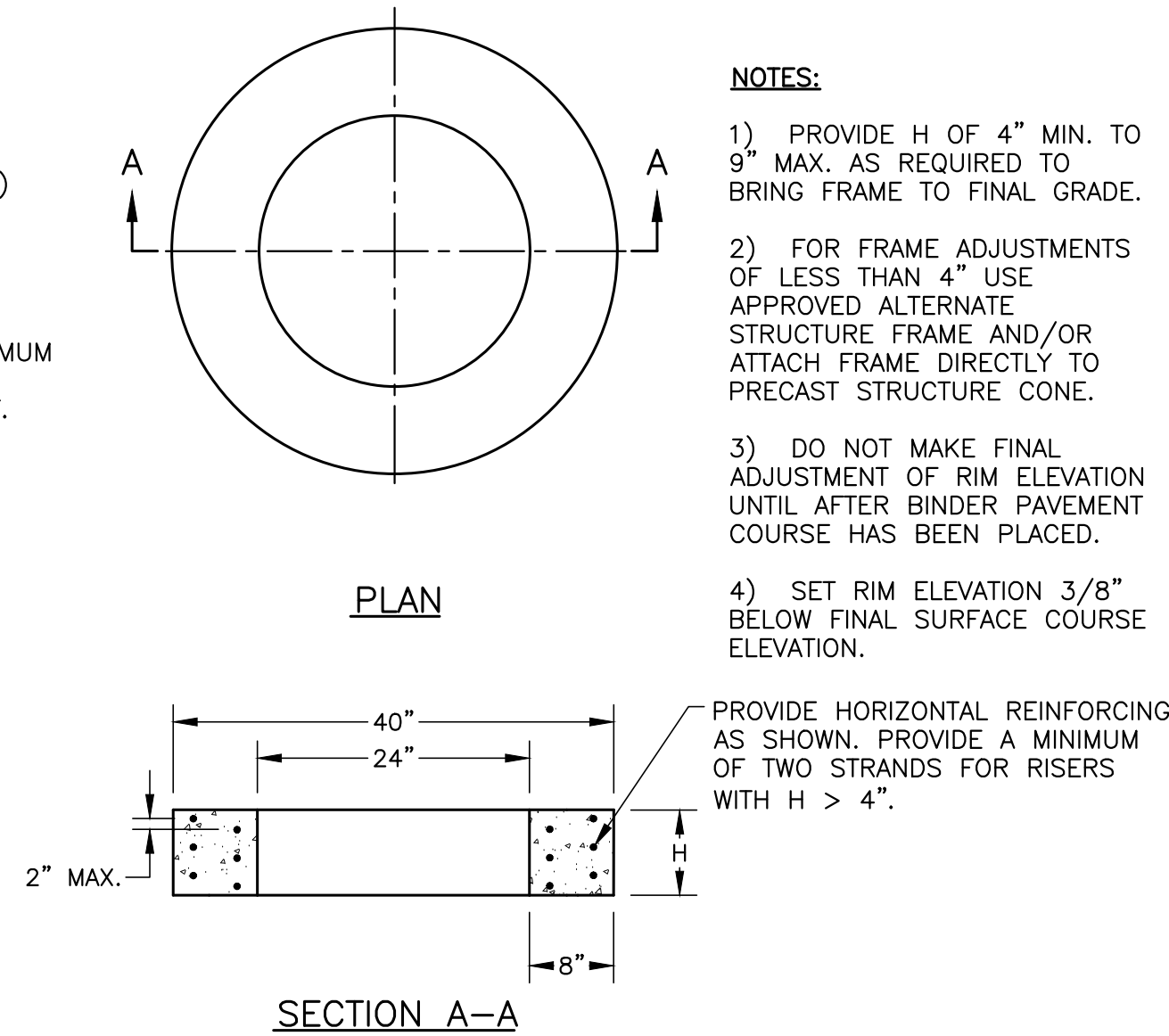
TRANSDUCER INSTALLATION DETAIL



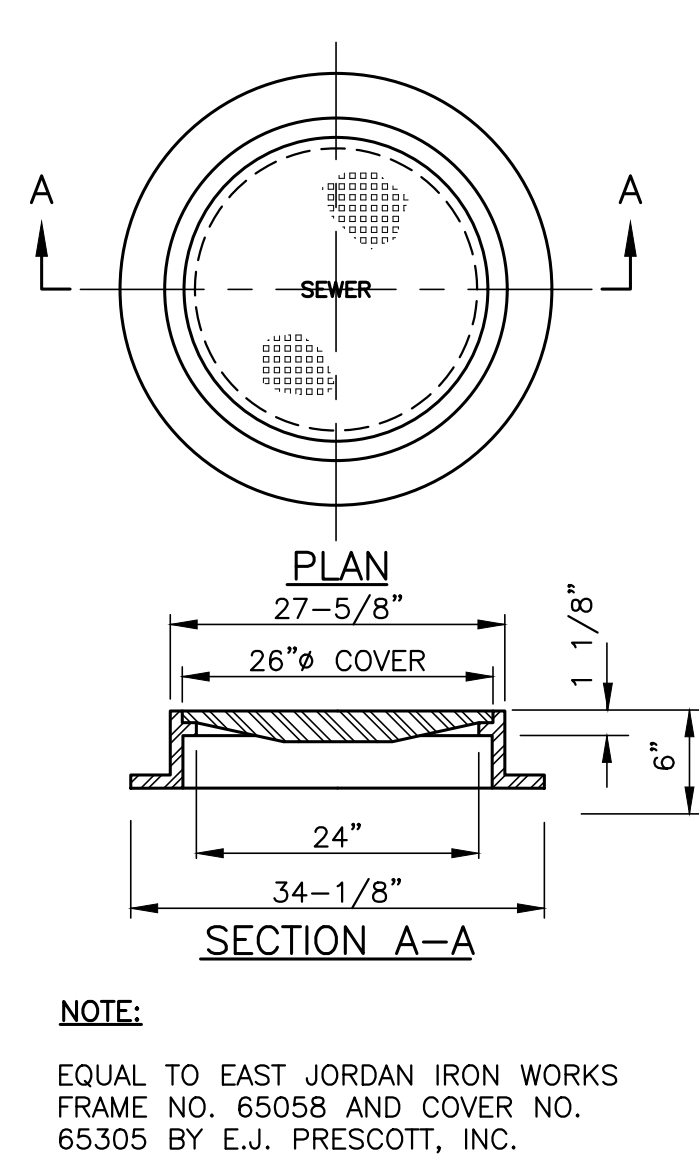
CONCRETE FILLED PIPE BOLLARD DETAIL



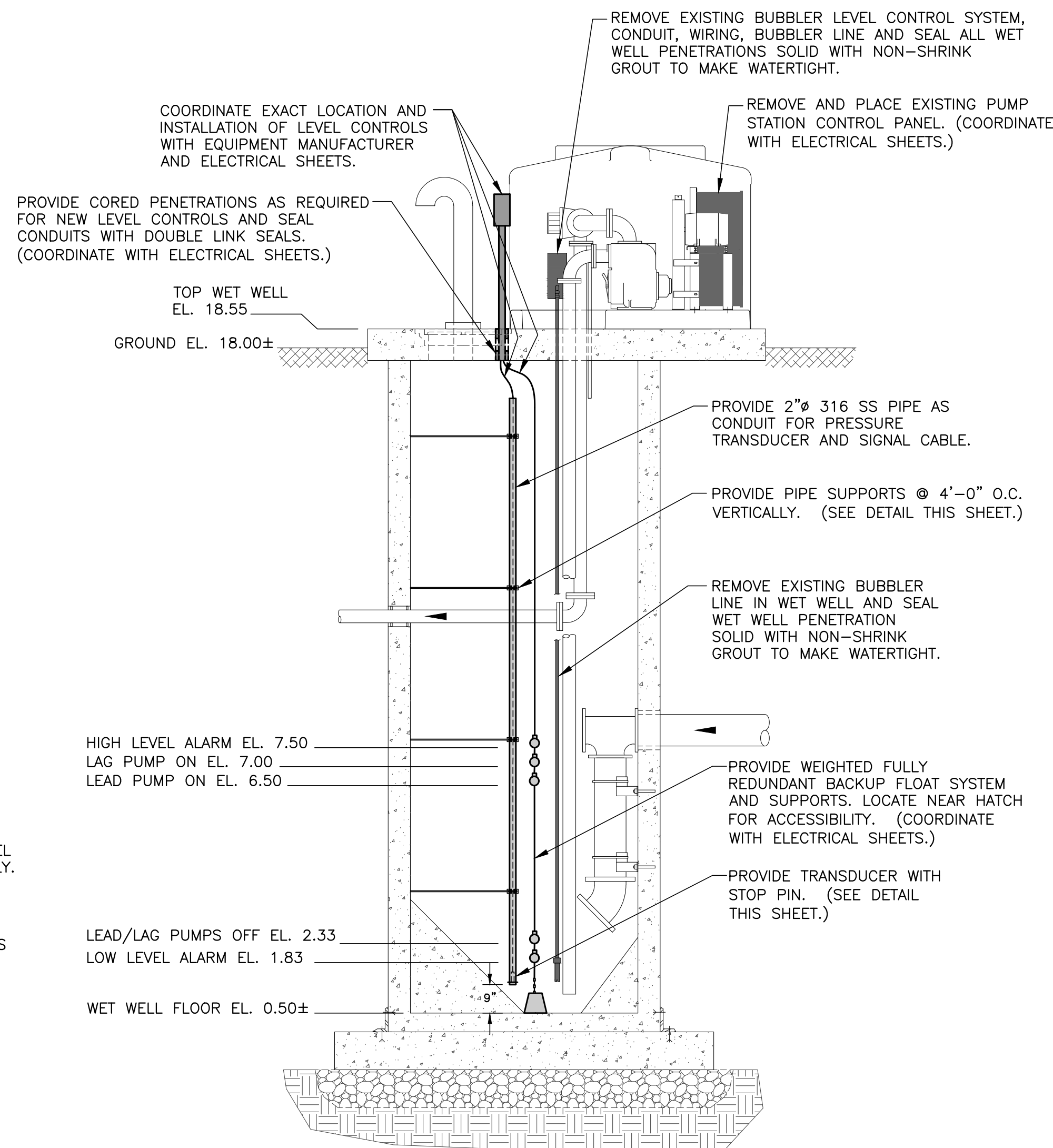
TRANSDUCER SUPPORT PIPES DETAIL



PRECAST CONCRETE GRADE RING DETAIL



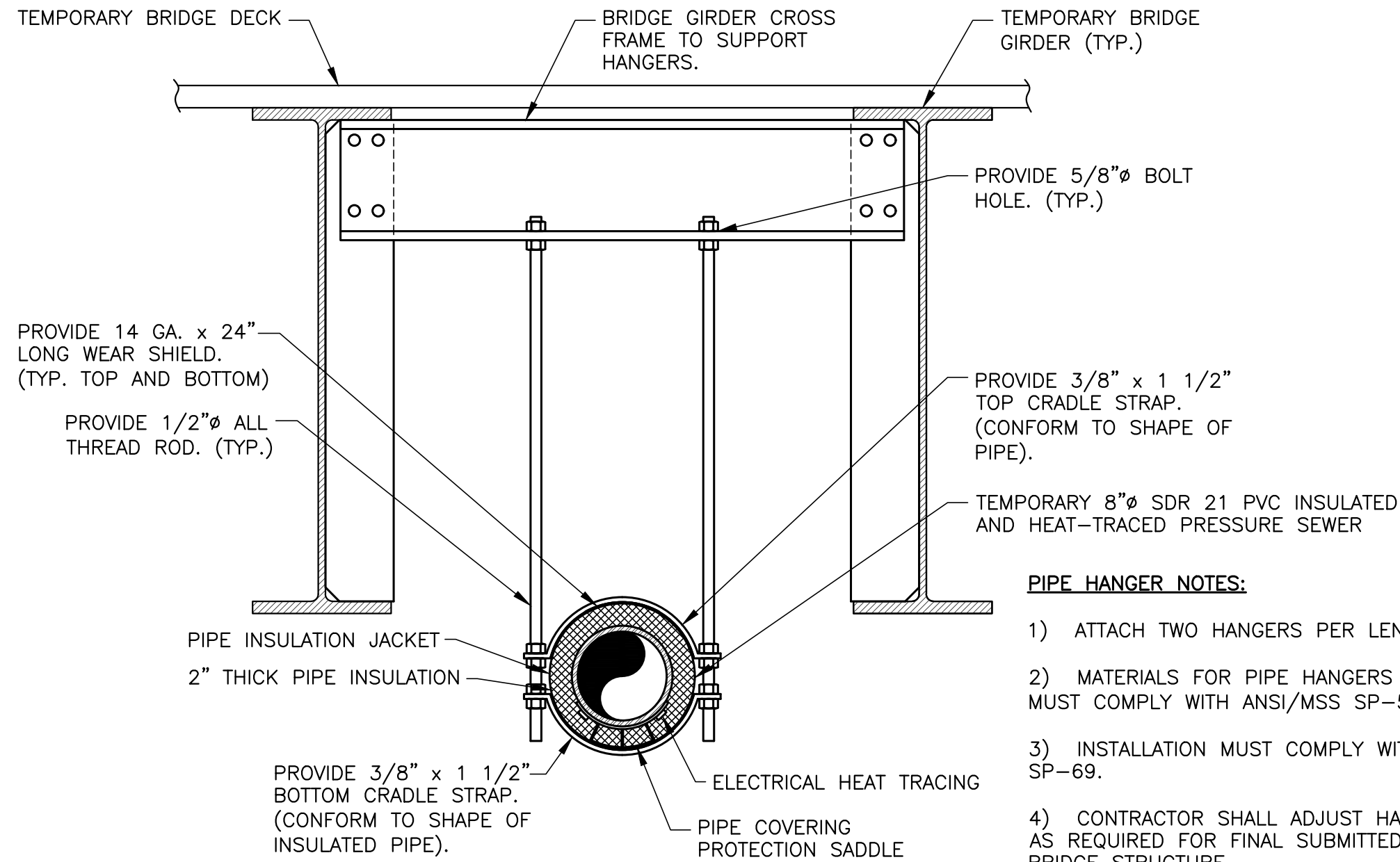
MANHOLE FRAME AND COVER DETAIL



WET WELL LEVEL CONTROL DETAIL

PROJECT NO. 023515.00	
OLVER ASSOCIATES INC. ENVIRONMENTAL ENGINEERS WINTERPORT, MAINE 290 MAIN STREET	
TOWN OF MOUNT DESERT, MAINE MOUNT DESERT BABSON BRIDGE SEWER REPLACEMENT	
CIVIL DETAILS	
SHEET NUMBER C-4	
DATE: AUGUST, 2024	
SCALE: NONE	
DESIGN: NWD	
DRAWN: NWD	
CHECKED: WMO	
PROJECT NO.: 2193	
SHEET: C-4	
ADDITION OR REVISION	

X:\ossec\Projects\W01\2193 Babsons Bridge Sewer Crossing\W01 SUBMISSION-FINAL\2193 DETAILS.dwg, 10/6/2024 1:32:25 PM, 1:1

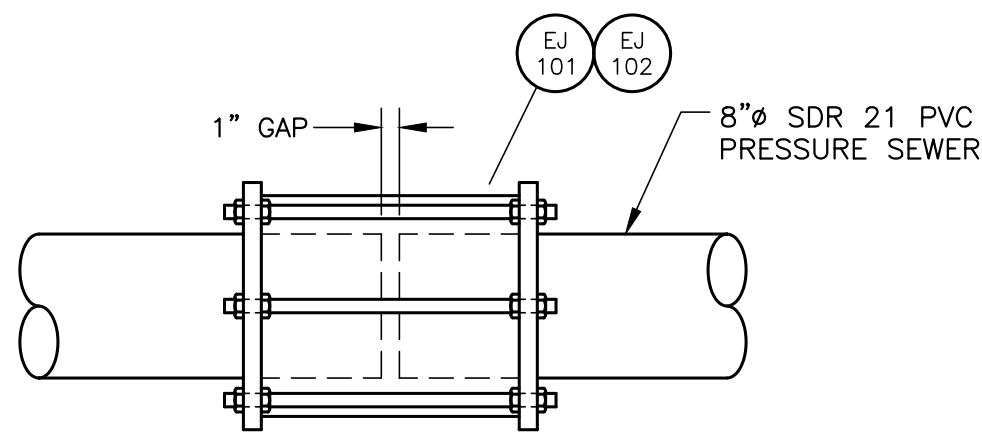


END VIEW

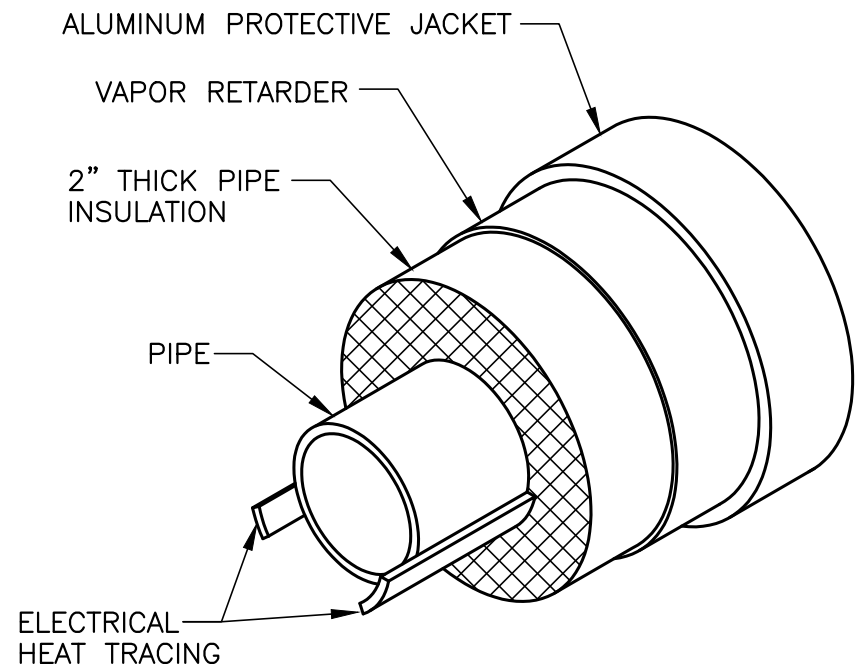
PIPE HANGER NOTES:

- 1) ATTACH TWO HANGERS PER LENGTH OF PIPE.
- 2) MATERIALS FOR PIPE HANGERS AND SUPPORTS MUST COMPLY WITH ANSI/MSS SP-58.
- 3) INSTALLATION MUST COMPLY WITH ANSI/MSS SP-69.
- 4) CONTRACTOR SHALL ADJUST HANGER SYSTEM AS REQUIRED FOR FINAL SUBMITTED TEMPORARY BRIDGE STRUCTURE.
- 5) THIS DETAIL APPLIES ONLY TO TEMPORARY BRIDGE SEWER SUPPORTS. SEE SHEET S-1 FOR PERMANENT BRIDGE SEWER SUPPORT DETAILS.

TEMPORARY BRIDGE SEWER MAIN HANGER DETAIL



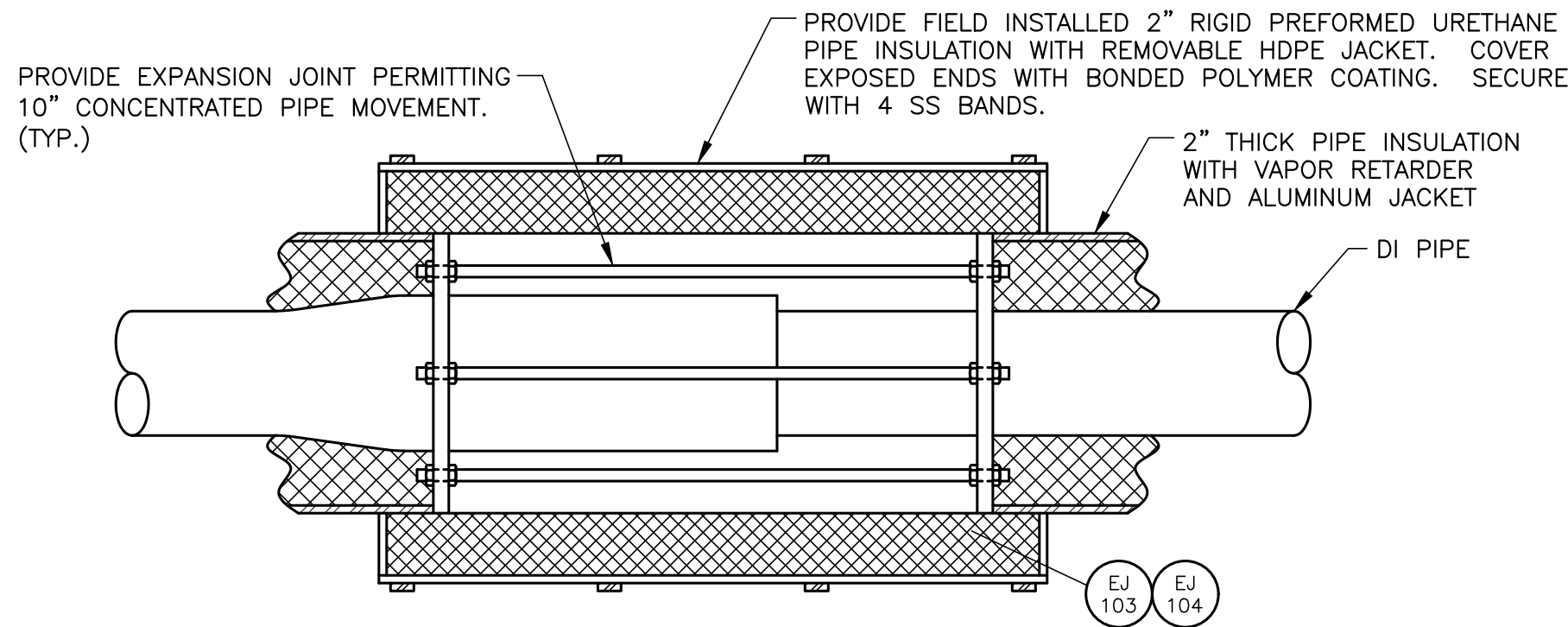
TEMPORARY BRIDGE
BRIDGE EXPANSION
JOINT DETAIL



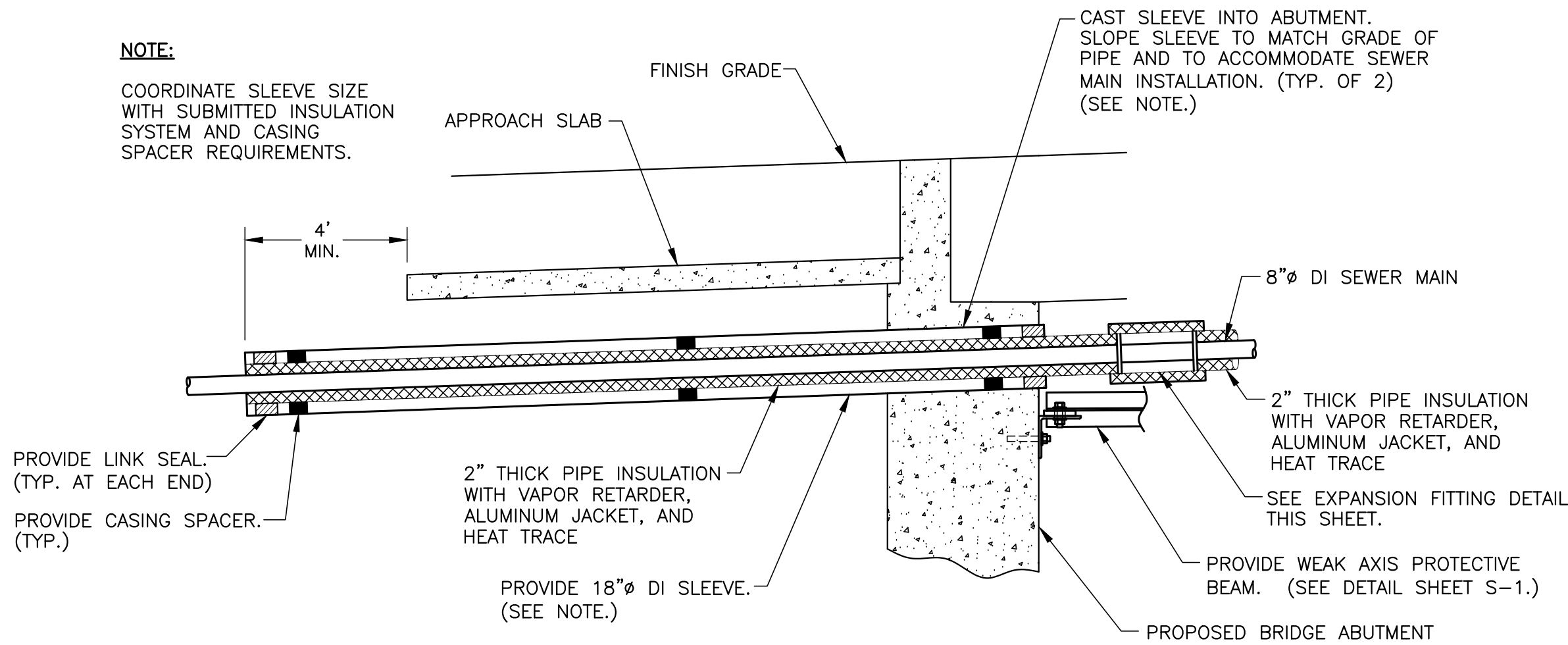
NOTES:

- 1) INSTALL ALL COMPONENTS BASED UPON MANUFACTURERS RECOMMENDATIONS.
- 2) FIELD INSULATE FITTINGS BASED ON MANUFACTURER'S RECOMMENDATIONS.
- 3) APPLY WEATHER BARRIER COATING TO ALL EXPOSED EDGES OF INSULATION.

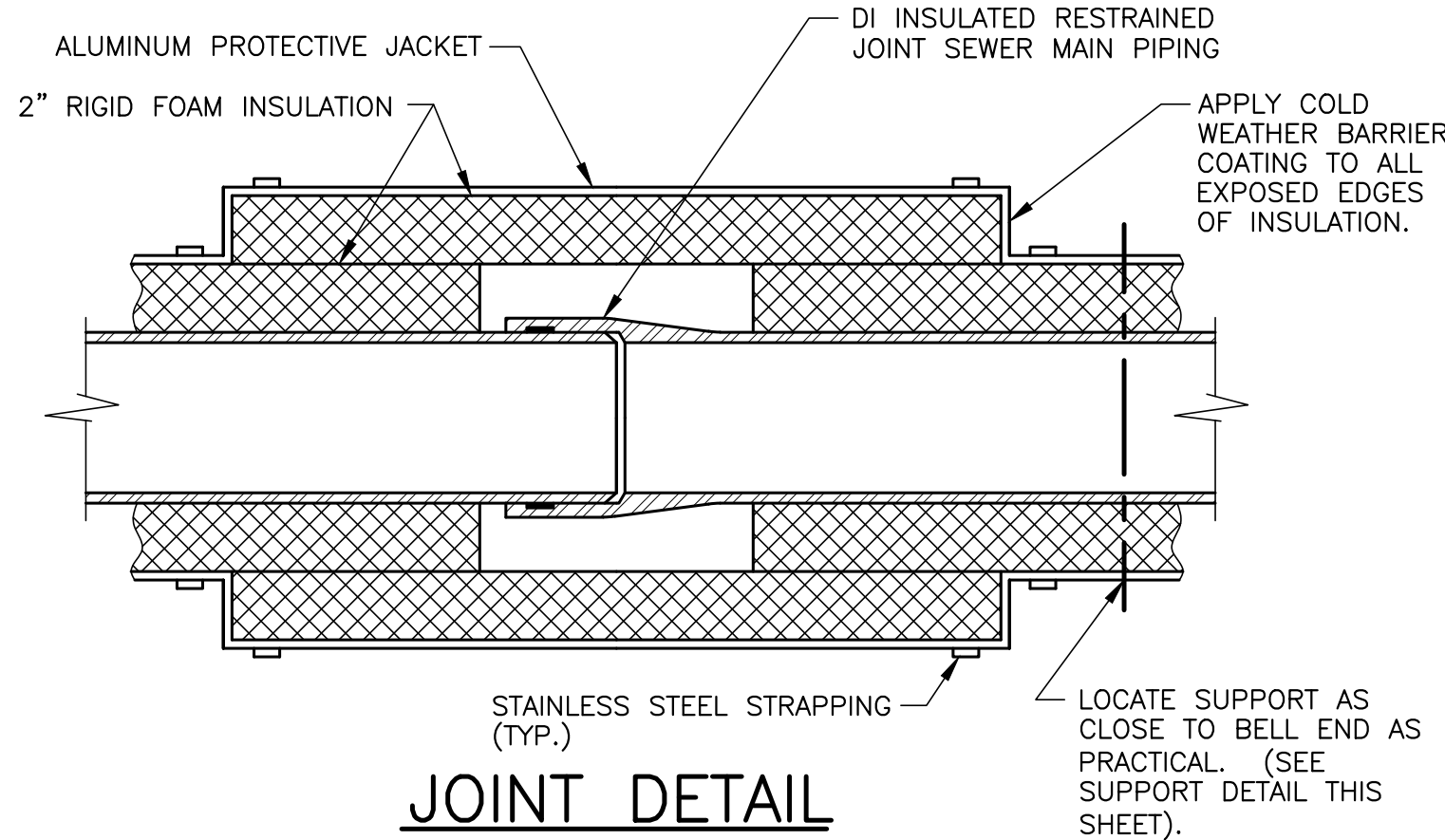
EXPOSED SEWER MAIN
INSULATION DETAIL



TYPICAL PERMANENT BRIDGE PIPE EXPANSION FITTING DETAIL



TYPICAL ABUTMENT PENETRATION DETAIL

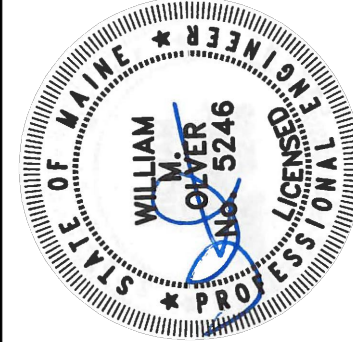


JOINT DETAIL

PROJECT NO.:

023515.00

OLVER ASSOCIATES INC.
ENVIRONMENTAL ENGINEERS
290 MAIN STREET
WINTERPORT, MAINE



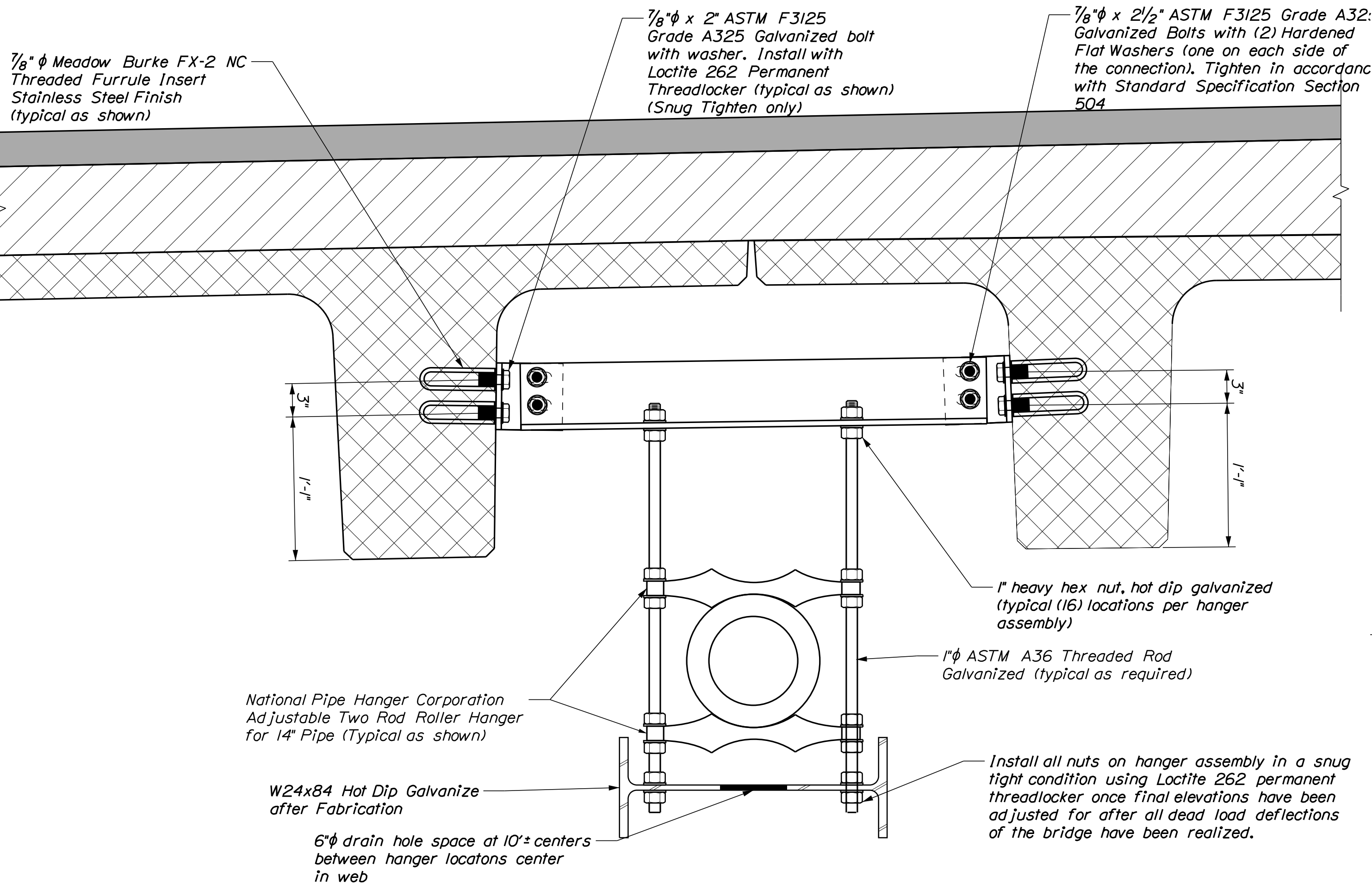
DATE	ADDITION OR REVISION
DES. BY: NWD	DR. BY: NWD
SCALE: NONE	OA. PROJECT NO.: 2193
DATE: AUGUST, 2024	SHEET: C-5

TOWN OF MOUNT DESERT, MAINE
MOUNT DESERT BABSONS BRIDGE
SEWER REPLACEMENT

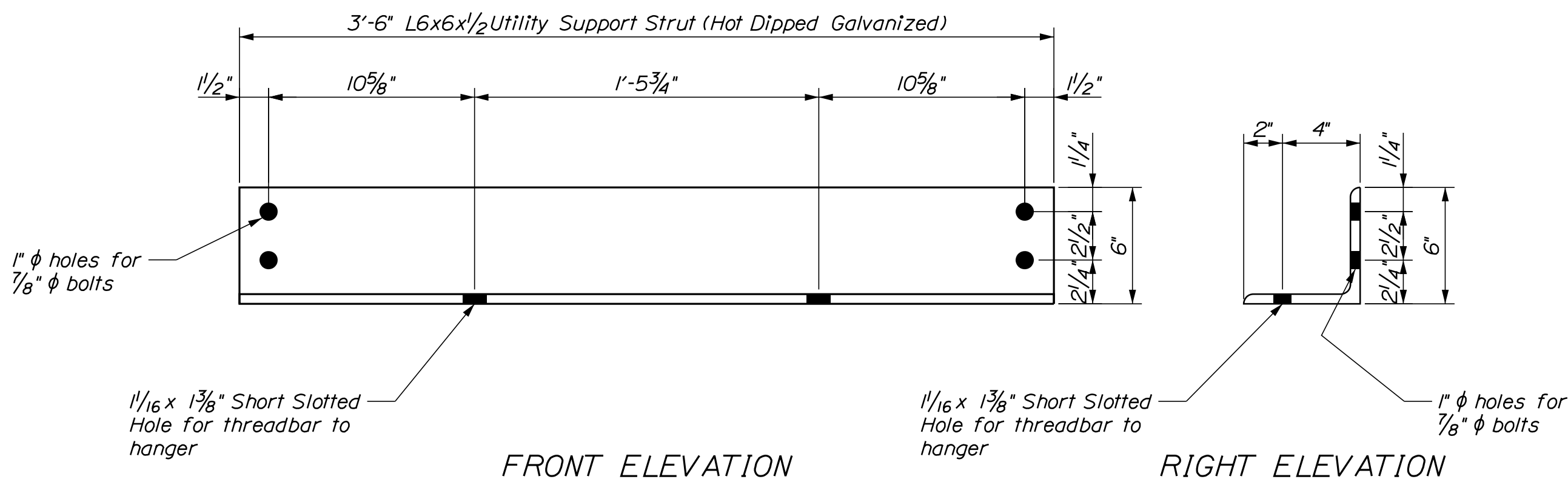
CIVIL DETAILS

SHEET NUMBER

C-5



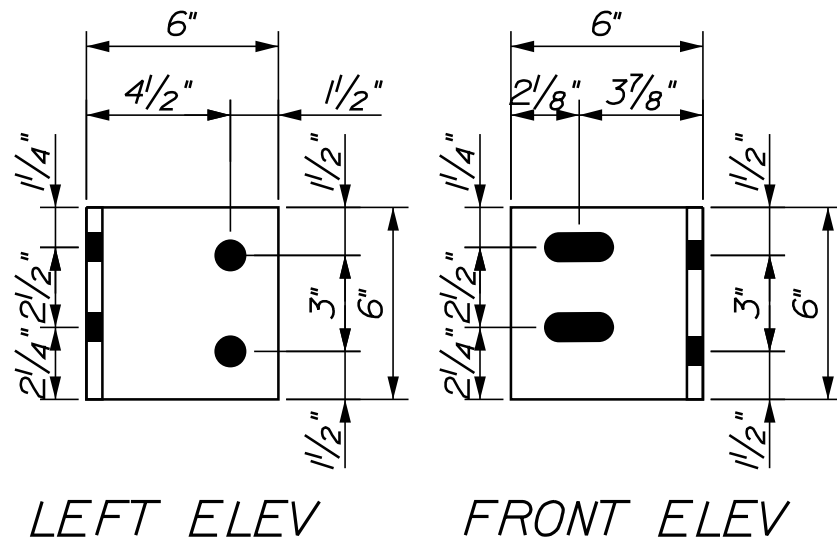
UTILITY SECTION LOOKING UPSTATION
(Install (2) hanger assemblies for each length of pipe, do not install hanger assemblies at expansion joint locations. Maximum spacing = 20'-0")



FRONT ELEVATION

RIGHT ELEVATION

UTILITY HANGER STRUT
(1) L6x6x1/2" HANGER STRUT REQUIRED AT EACH UTILITY HANGER LOCATION

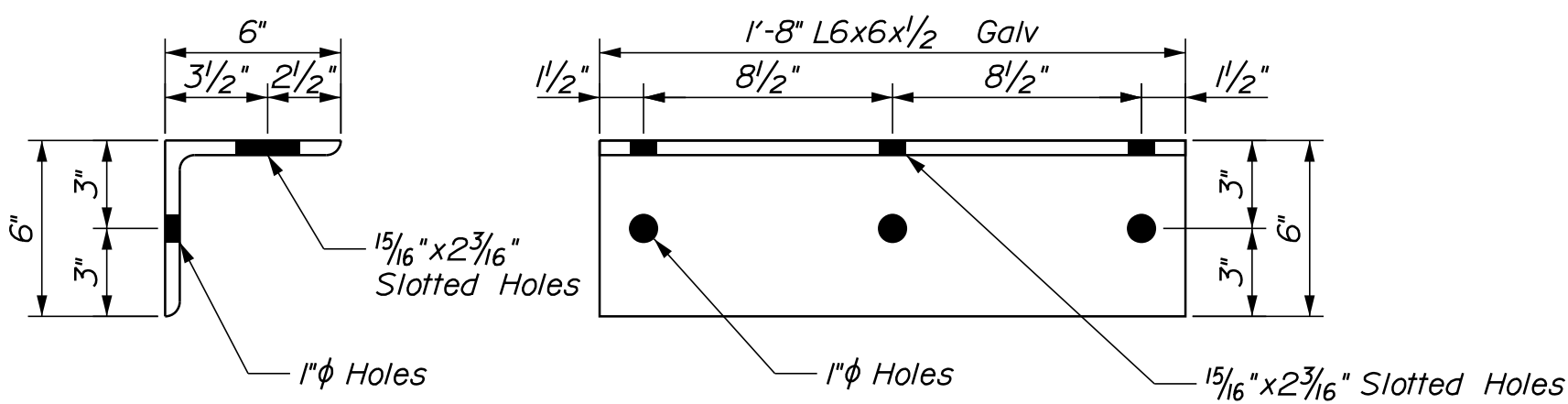


LEFT ELEV

FRONT ELEV

RIGHT SIDE CLIP ANGLE

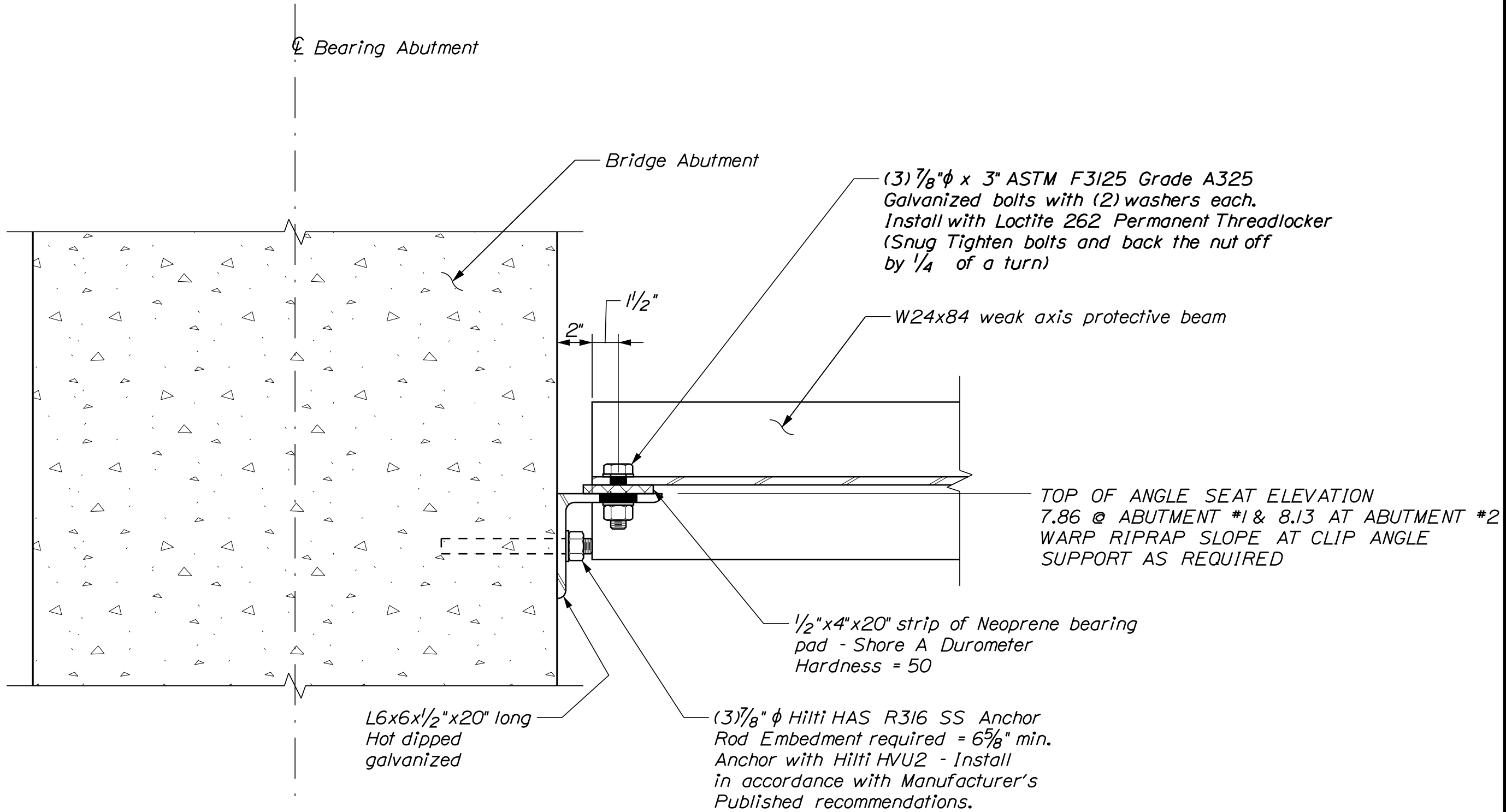
LEFT SIDE CLIP ANGLE TO BE OPPOSITE HAND (1) LEFT SIDE AND (1) RIGHT SIDE CLIP ANGLE REQUIRED AT EACH HANGER LOCATION. CLIP ANGLES TO BE L6x6x1/2" HOT DIPPED GALVANIZED



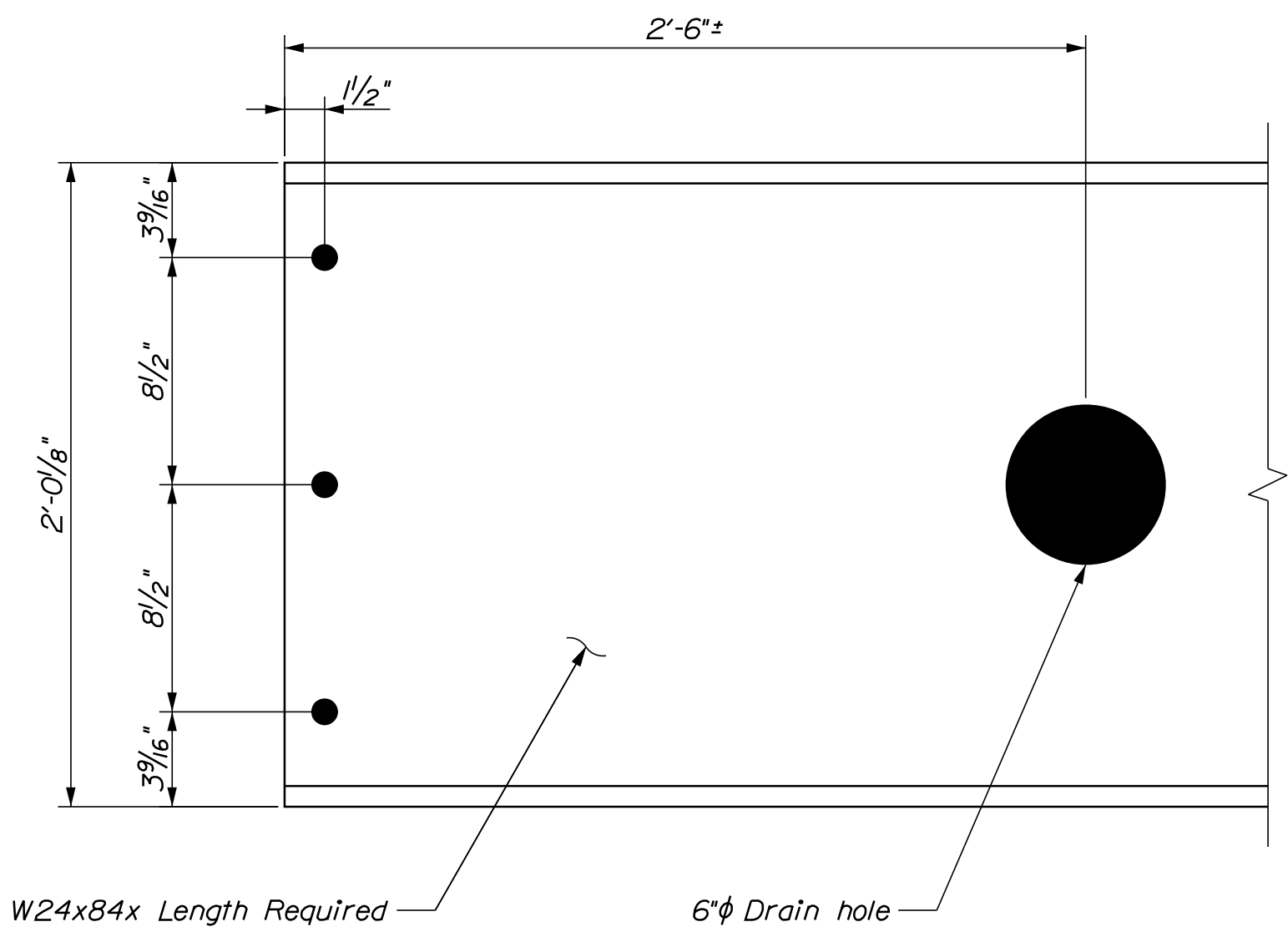
LEFT ELEV

FRONT ELEV

W24x84 SUPPORT ANGLE



ABUTMENT W24X84 SEAT ANGLE



W24x84 END PLAN VIEW

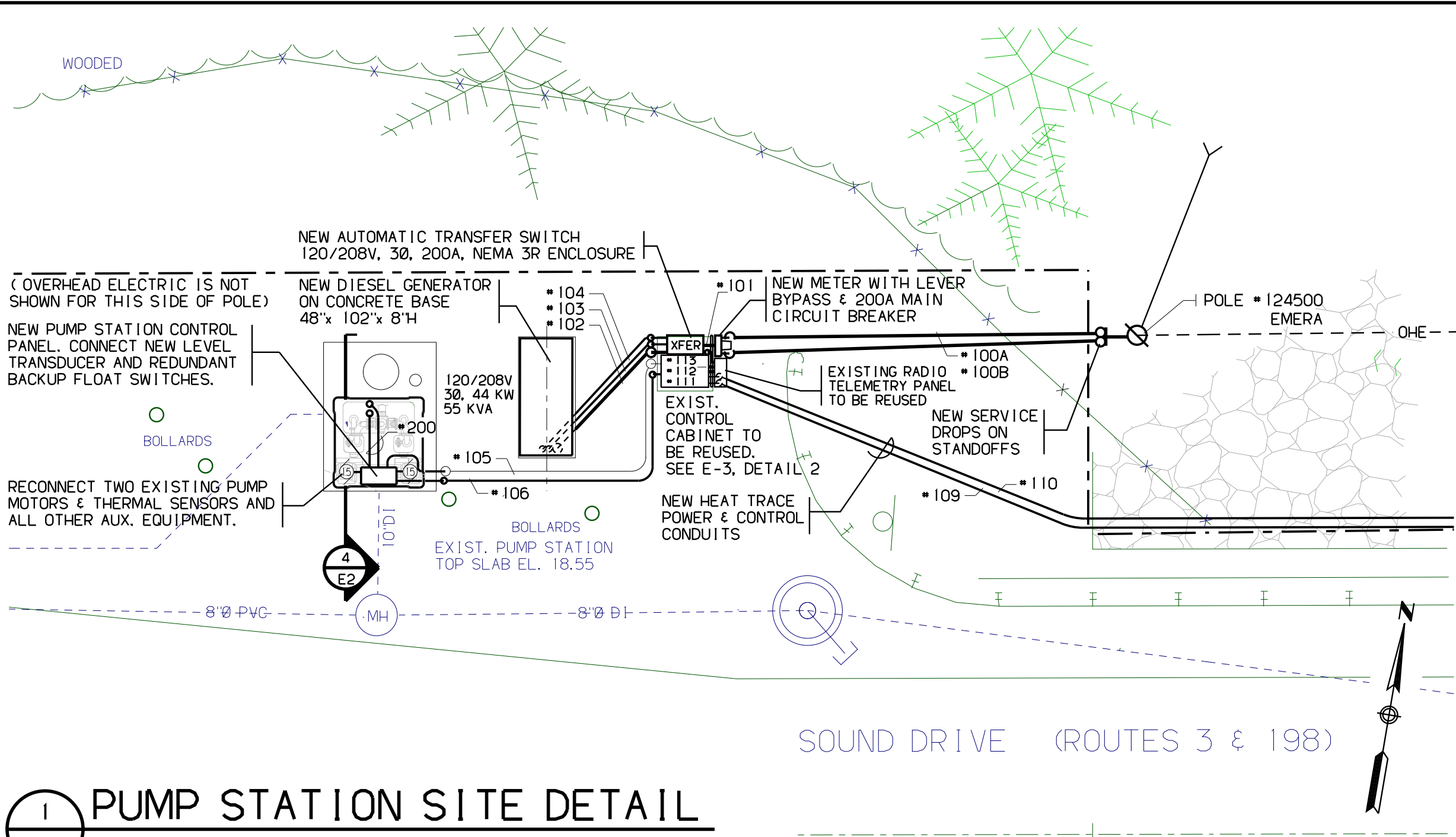
(TYPICAL AT EACH END)

General Notes:

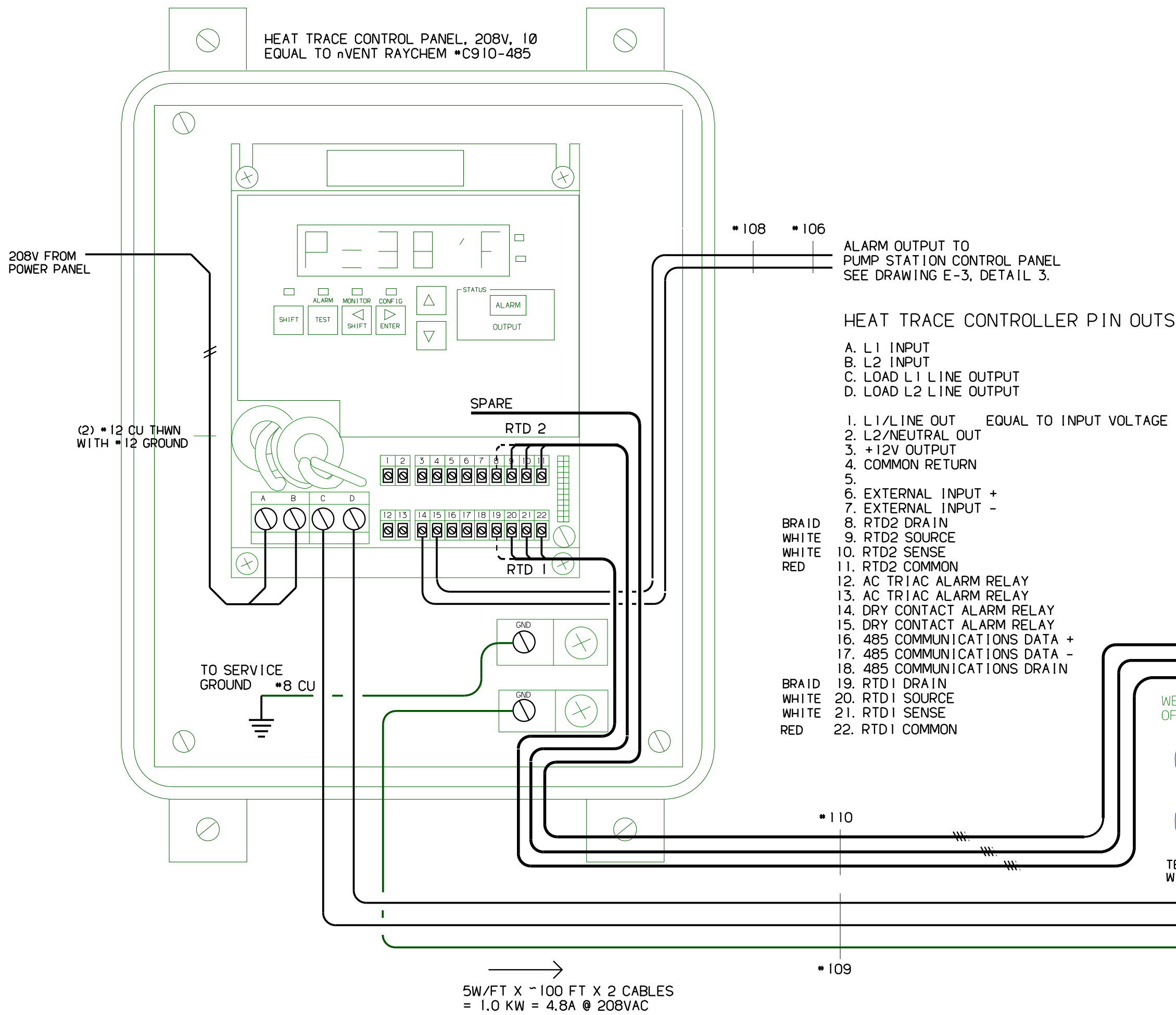
1. Report any observed discrepancy between these plans and actual observed field conditions.
2. Do not proceed with any dependent work until any such reported discrepancy is resolved to the satisfaction of the engineer of record.
3. Angle Iron to be ASTM A36 Hot dipped galvanized after fabrication in accordance with ASTM A123
4. W24x84 to be ASTM A992 grade 50 Hot dipped galvanized (may be double dipped)
5. All non stainless fasteners to be hot dipped galvanized in accordance with ASTM A153



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1 PUMP STATION SITE DETAIL
E2 SCALE: 1/8" = 1'-0"



5 HEAT TRACE WIRING
E2 SCALE: NONE

GENERAL NOTES: PUMP STATION

- BEFORE POURING NEW GENERATOR CONCRETE PAD, COORDINATE EXACT LOCATION OF GENERATOR CONDUIT RISER LOCATIONS WITH MANUFACTURER'S SHOP DRAWINGS
- RECONNECT TWO EXISTING 15 HP PUMP MOTORS AND THERMAL SENSORS TO NEW PUMP STATION CONTROL PANEL.
- RECONNECT ALL EXISTING PUMP STATION AUXILIARY EQUIPMENT TO NEW PUMP STATION CONTROL PANEL, INCLUDING, BUT NOT LIMITED TO FANS, RECEPTACLES, AND HEATERS. SEE DRAWING E-1, DETAIL 5.
- RECONNECT EXISTING PUMP STATION ALARM BEACON WIRING TO NEW PANEL. SEE DRAWING E-3, DETAIL 3.
- INSTALL TERMINAL BOX WITH SEALS. SEE SPECIFICATION SECTION 16100, PART 2.06, PARAGRAPH E.

PUMP STATION PUMP MOTORS & ALARM REWIRING IS NOT SHOWN. SEE THIS SHEET, DETAIL 4.

CONDUIT #200, 1" AL, WET WELL LEVEL CONTROLS TO NEW CONTROL PANEL (10) #14 CU THWN, FLOAT SWITCHES (1) 3-COND SHIELDED CABLE, SENSOR (MATCH NEW SENSOR CABLE TYPE)

CABLE #201, MFG'S FLOAT SWITCH (SEE SECTION DETAIL 4) (1) WP FLEX CABLE SUPPLIED WITH FLOAT SWITCH, HIGH LEVEL ALARM

CABLE #202, MFG'S FLOAT SWITCH (SEE SECTION DETAIL 4) (1) WP FLEX, SUPPLIED WITH FLOAT SWITCH, LAG PUMP ON

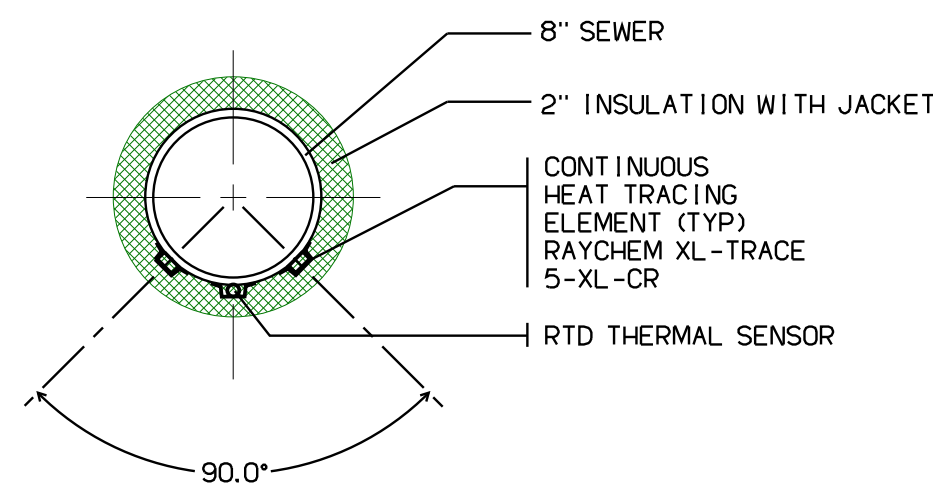
CABLE #203, MFG'S FLOAT SWITCH (SEE SECTION DETAIL 4) (1) WP FLEX, SUPPLIED WITH FLOAT SWITCH, LEAD PUMP ON

CABLE #204, MFG'S FLOAT SWITCH (SEE SECTION DETAIL 4) (1) WP FLEX, SUPPLIED WITH FLOAT SWITCH, ALL PUMPS OFF

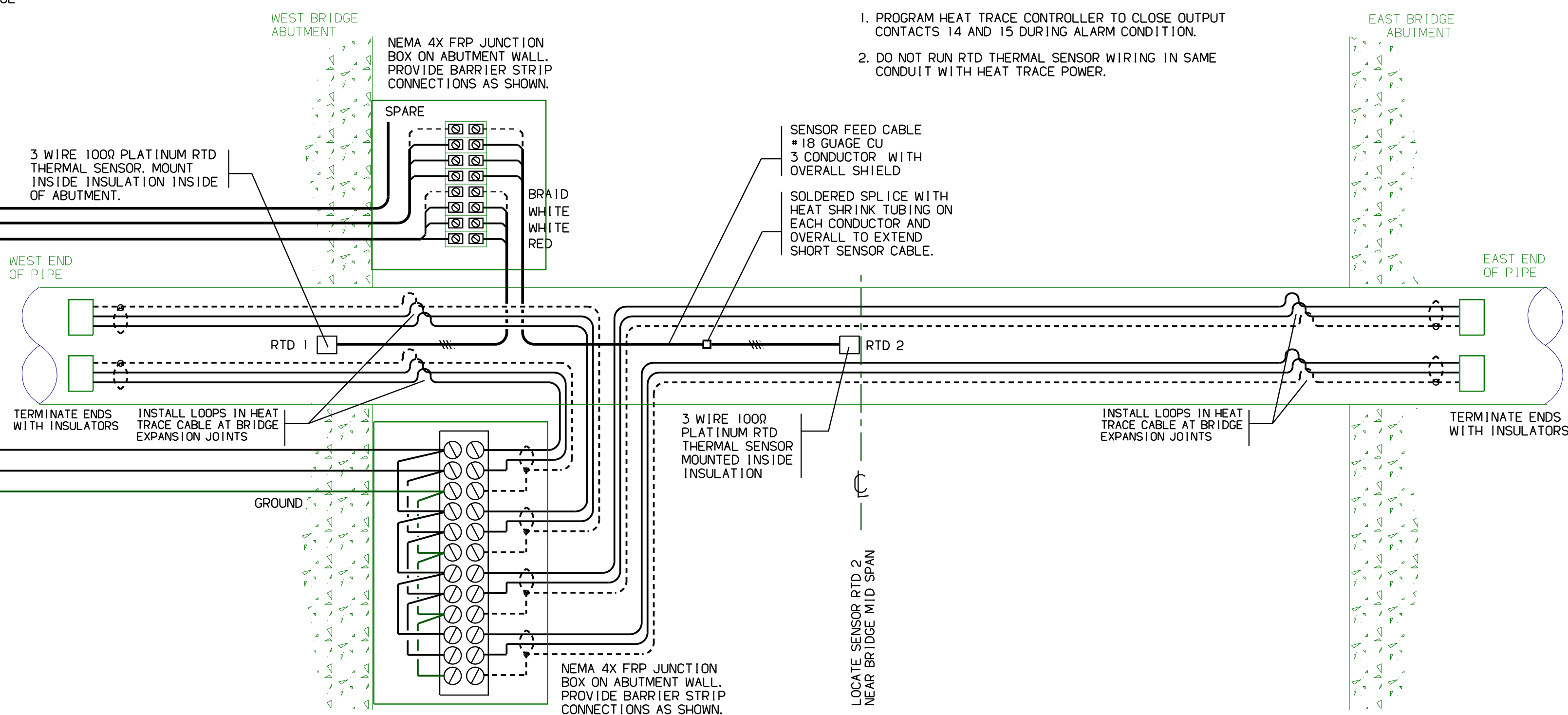
CABLE #205, MFG'S FLOAT SWITCH (SEE SECTION DETAIL 4) (1) WP FLEX CABLE SUPPLIED WITH FLOAT SWITCH, LOW LEVEL ALARM

CABLE #206, MFG'S LEVEL SENSOR (SEE SECTION DETAIL 4) (1) WP FLEX CABLE SUPPLIED WITH PRESSURE SENSOR, WET WELL LEVEL

2 CONDUIT & WIRE SCHEDULE
E2 SCALE NONE EXISTING PUMP STATION



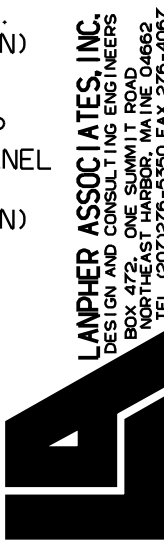
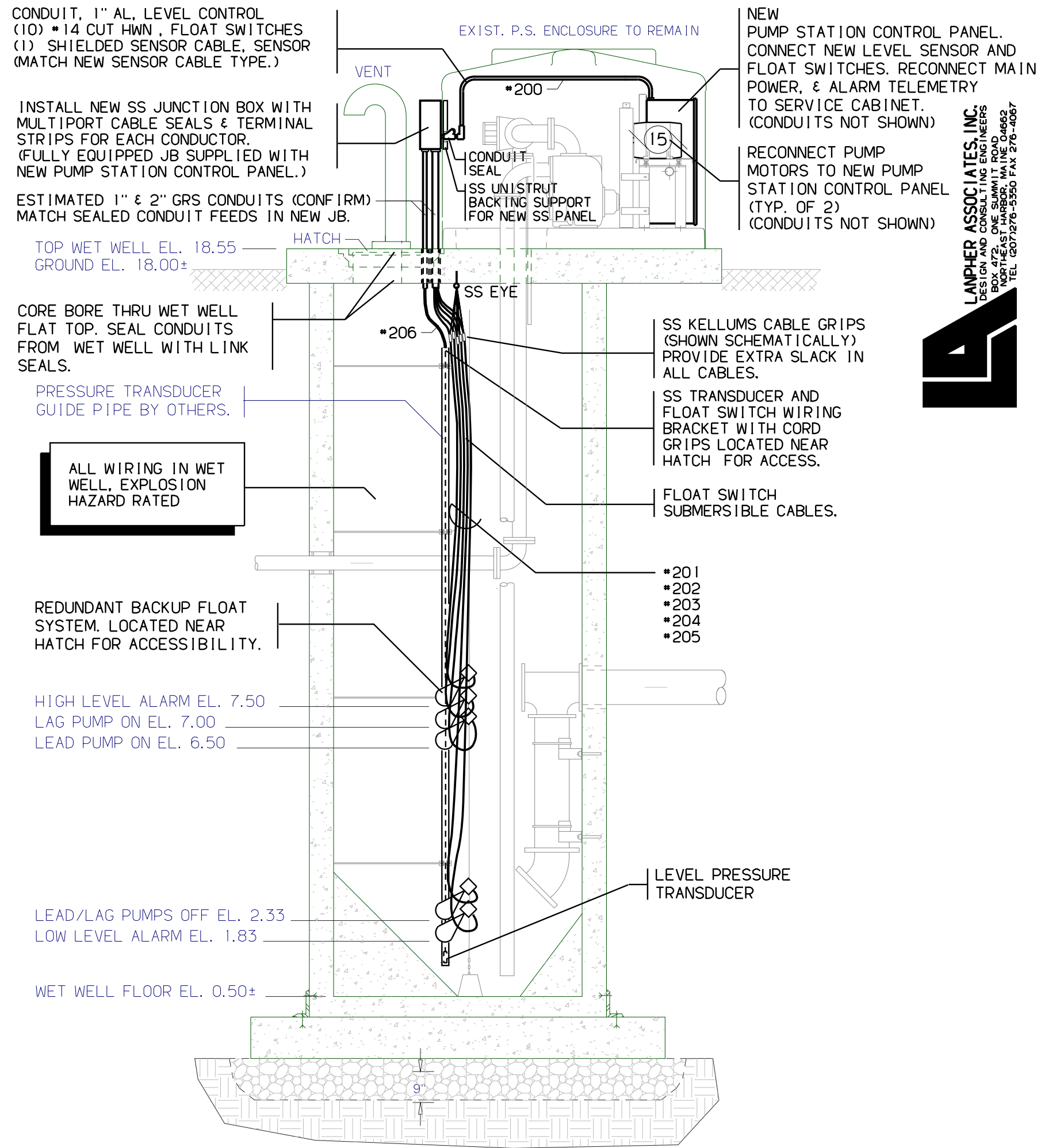
3 HEAT TRACE DETAIL
E2 SCALE NONE SEWER PIPE SECTION



GENERAL NOTES:

- PROGRAM HEAT TRACE CONTROLLER TO CLOSE OUTPUT CONTACTS 14 AND 15 DURING ALARM CONDITION.
- DO NOT RUN RTD THERMAL SENSOR WIRING IN SAME CONDUIT WITH HEAT TRACE POWER.

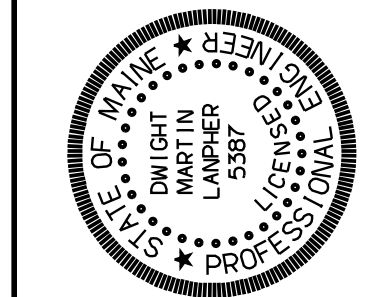
4 WET WELL LEVEL CONTROL DETAIL
E2 SCALE: NONE PUMP STATION SECTION



LANPHER ASSOCIATES, INC.
12501 N. 10TH AVE., SUITE 100
DENVER, CO 80231
TEL: 303.756.4600 FAX: 303.756.4607

PROJECT NO.: 023515.00

OLVER ASSOCIATES INC.
ENVIRONMENTAL ENGINEERS
290 MAIN STREET
WINTERPORT, MAINE



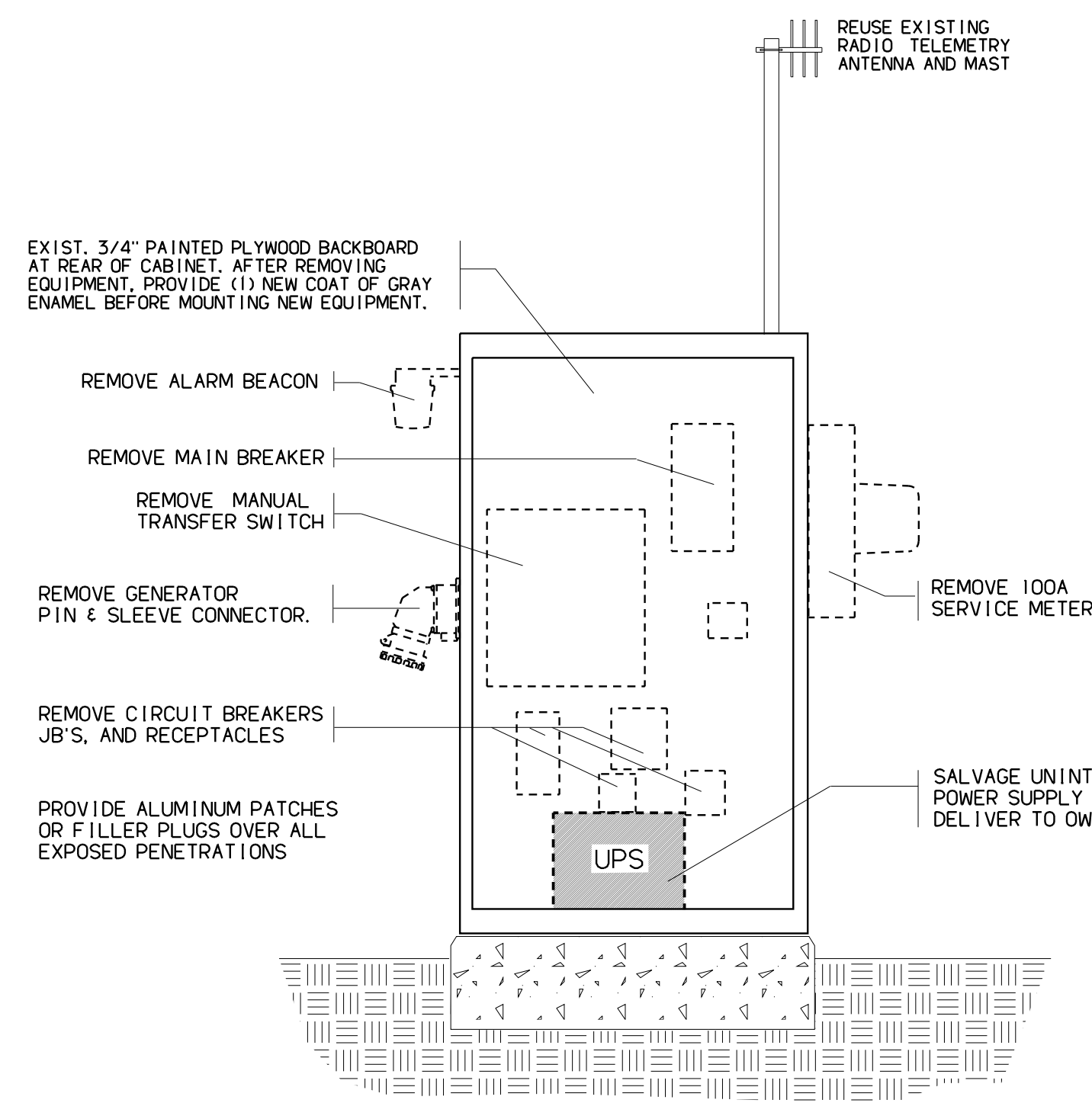
DATE	DESCRIPTION	DATE	DESCRIPTION
	ADDITION OR REVISION		
DESIGN: DML	DR BY: DML	CK BY: EH	
SCALE: AS NOTED	OA PROJECT NO.: 2193	LA 2024-007	
DATE: AUGUST, 2024	SHEET: E-2		

TOWN OF MOUNT DESERT, MAINE
MOUNT DESERT BABSON BRIDGE
SEWER REPLACEMENT

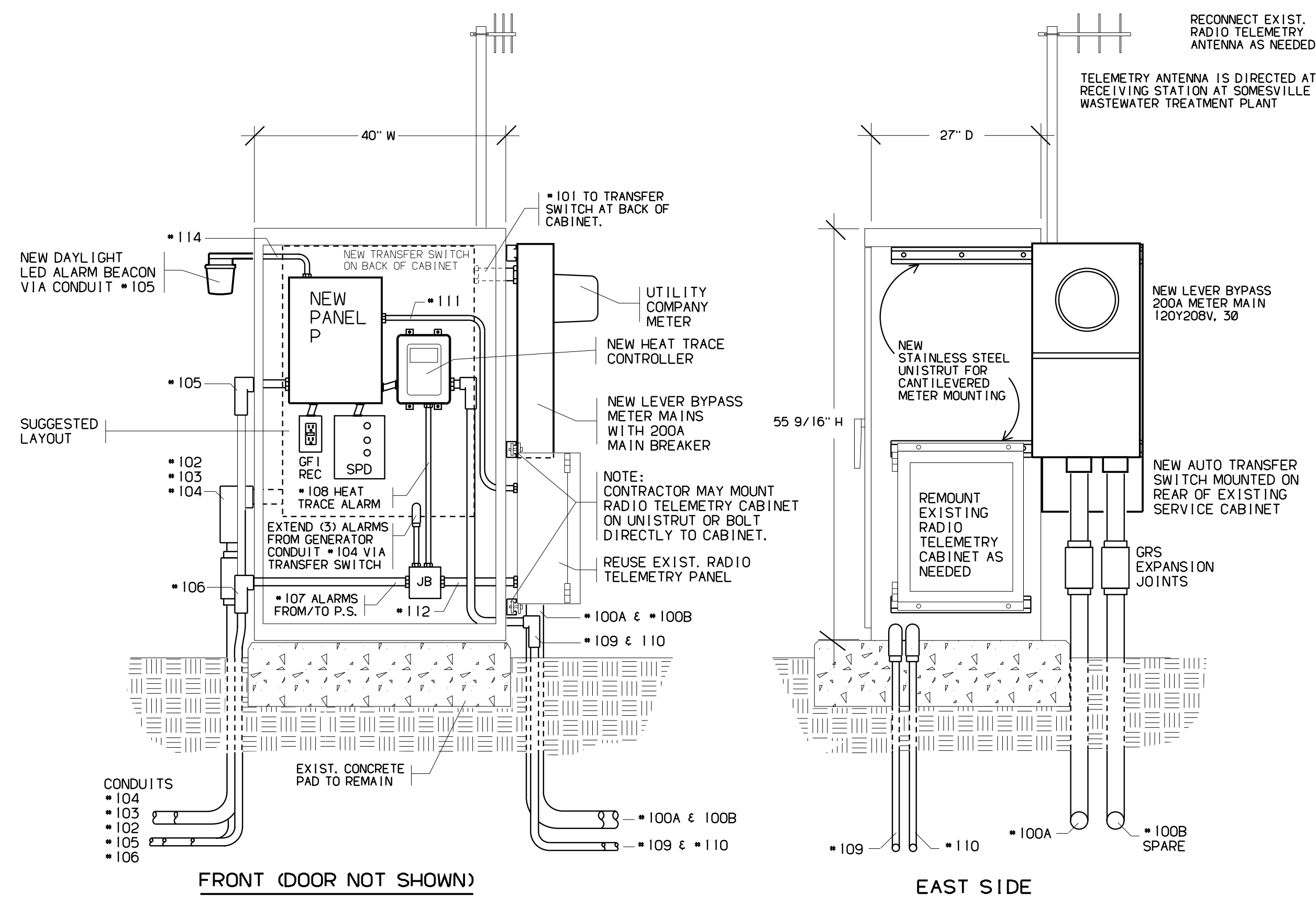
ELECTRICAL P.S. SECTION
& HEAT TRACE DETAILS

SHEET NUMBER

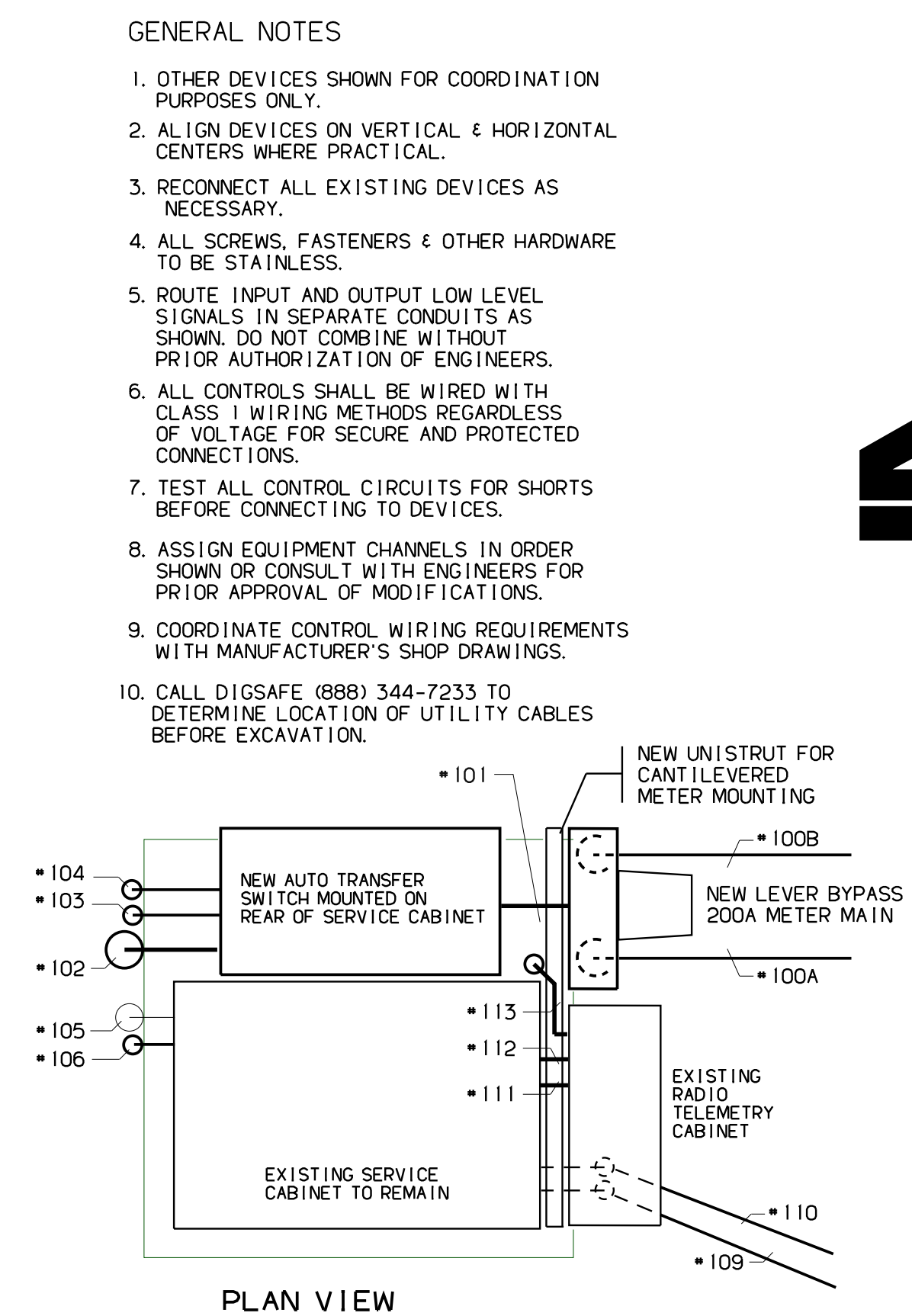
E-2



CONTROL CABINET DEMOLITION



2 BABSON CREEK ELECTRIC SERVICE CABINET ELEVATIONS & PLAN VIEW
E3 SCALE 3/4"=1'-0"



GENERAL NOTES

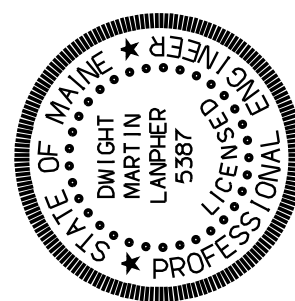
1. OTHER DEVICES SHOWN FOR COORDINATION PURPOSES ONLY.
2. ALIGN DEVICES ON VERTICAL & HORIZONTAL CENTERS WHERE PRACTICAL.
3. RECONNECT ALL EXISTING DEVICES AS NECESSARY.
4. ALL SCREWS, FASTENERS & OTHER HARDWARE TO BE STAINLESS.
5. ROUTE INPUT AND OUTPUT LOW LEVEL SIGNALS IN SEPARATE CONDUITS AS SHOWN. DO NOT COMBINE WITHOUT PRIOR AUTHORIZATION OF ENGINEERS.
6. ALL CONTROLS SHALL BE WIRED WITH CLASS 1 WIRING METHODS REGARDLESS OF VOLTAGE FOR SECURE AND PROTECTED CONNECTIONS.
7. TEST ALL CONTROL CIRCUITS FOR SHORTS BEFORE CONNECTING TO DEVICES.
8. ASSIGN EQUIPMENT CHANNELS IN ORDER SHOWN OR CONSULT WITH ENGINEERS FOR PRIOR APPROVAL OF MODIFICATIONS.
9. COORDINATE CONTROL WIRING REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS.
10. CALL DIGSAFE (888) 344-7233 TO DETERMINE LOCATION OF UTILITY CABLES BEFORE EXCAVATION.

LANPHER ASSOCIATES, INC.
DESIGN AND CONSULTING ENGINEERS
BOX 472, ONE SUMMIT ROAD
NORTHEAST HARBOR, MAINE 04602

ECT NO.: 0235 15.00

OLIVER ASSOCIATES INC.

ENVIRONMENTAL ENGINEERS
290 MAIN STREET
WINTERPORT, MAINE



DESIGN BY:	DML	DR BY:	DML	CK BY:	EH
SCALE:	AS NOTED		OA	PROJECT NO.:	2193
LA 2024-007					

TOWN OF MOUNT DESERT, MAINE
MOUNT DESERT BABSON BRIDGE
SEWER REPLACEMENT

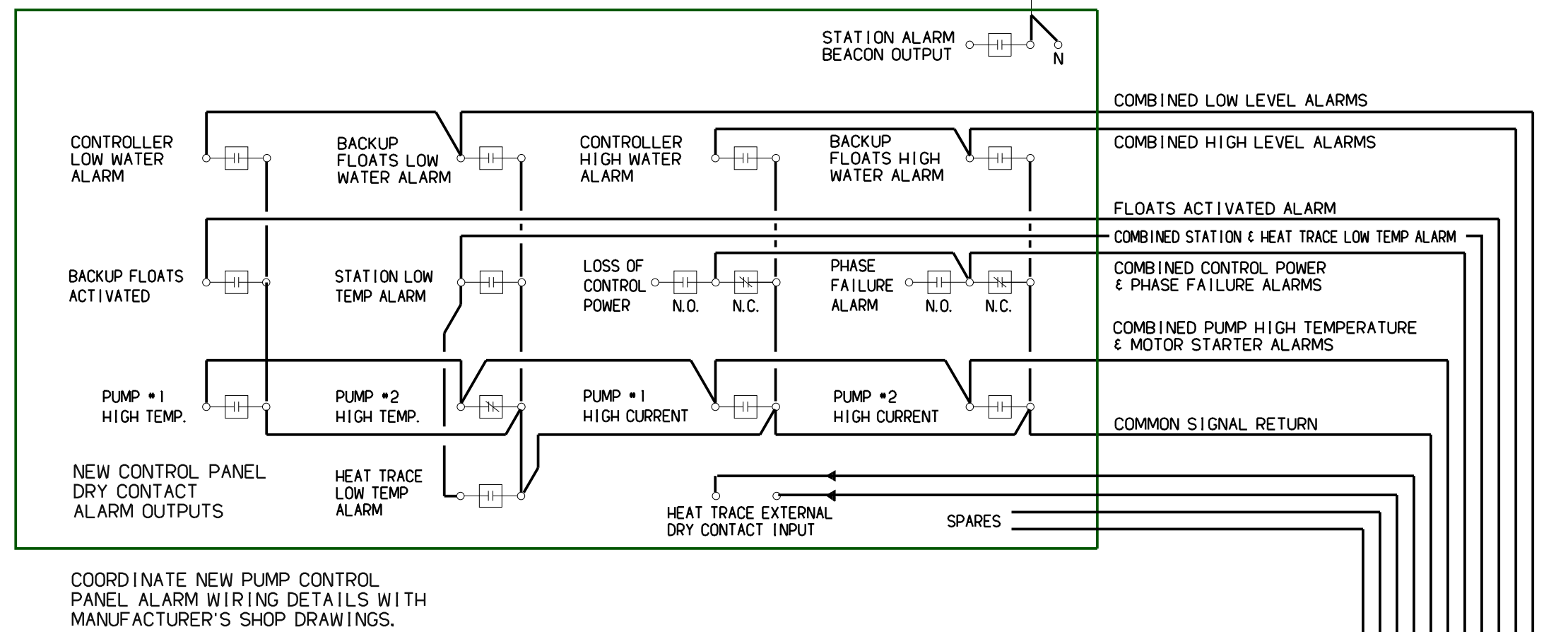
PUMP STATION SERVICE CABINET DETAILS & TELEMETRY RISER

SHEET NUMBER

E-3

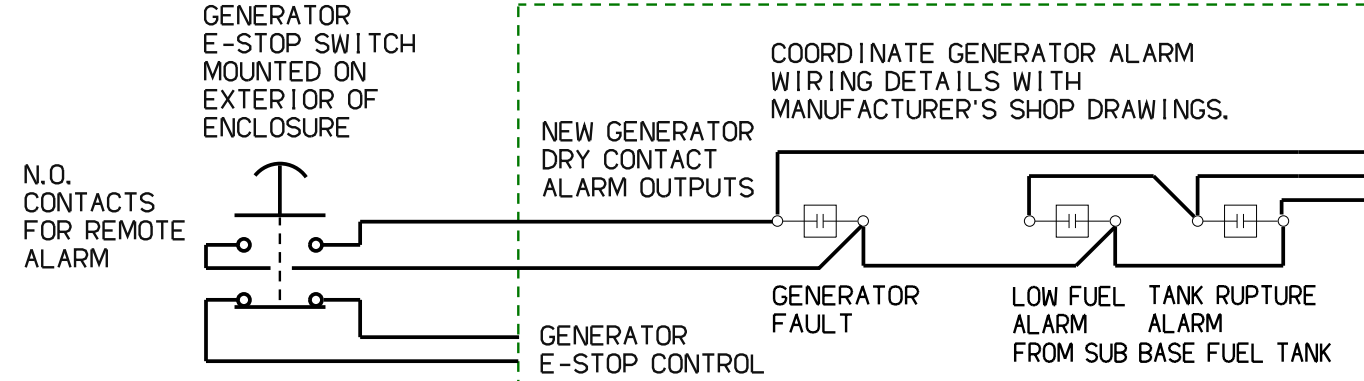
[illegible]

NEW
GORMAN-RUPP PUMP
STATION CONTROL PANEL

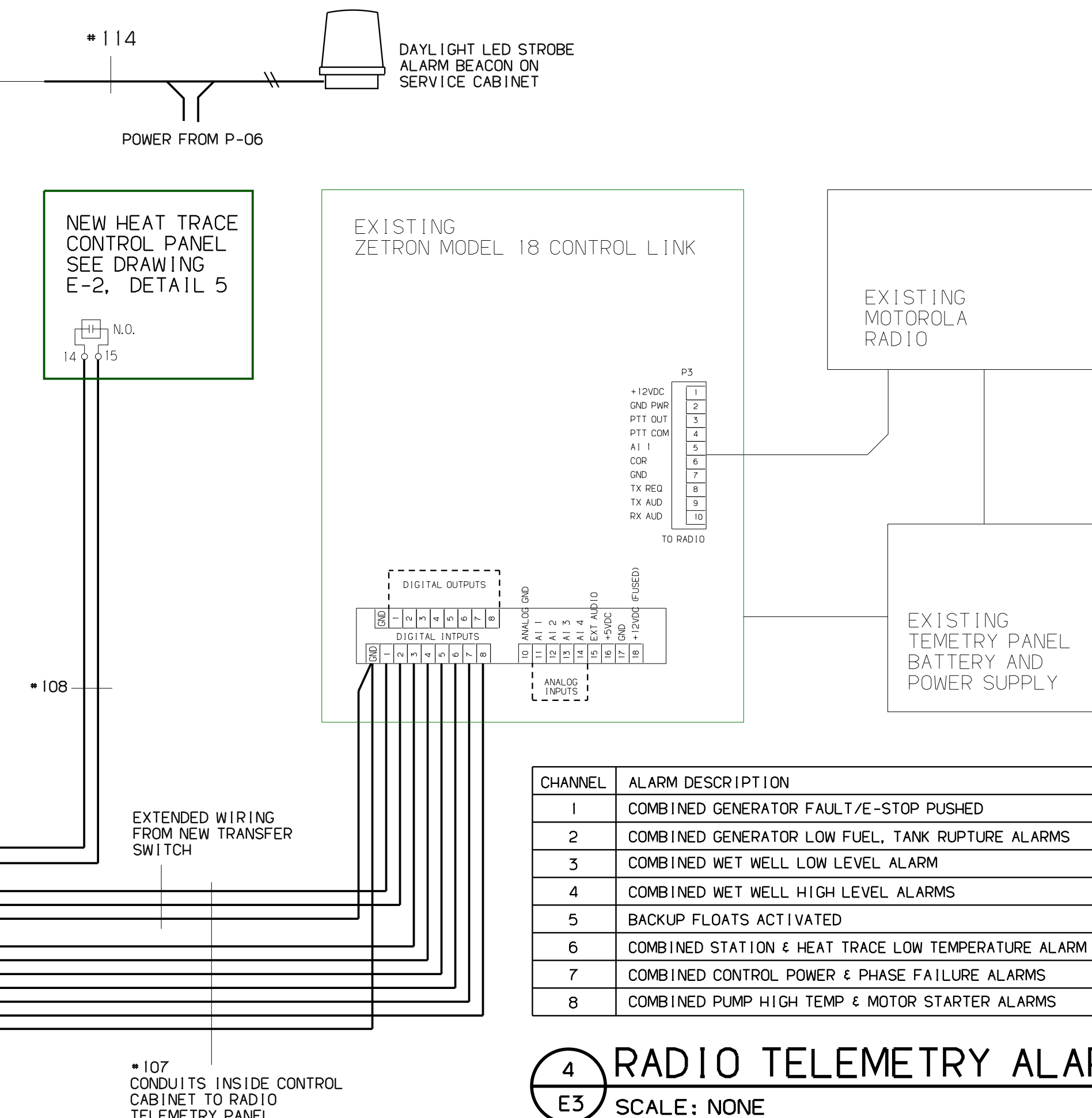


3 ALARM RISER DETAIL
E3 SCALE: NONE

NEW GENERATOR



CONDUIT CONTAINS ALARM
SIGNALS, 2 SPARES AND
GENERATOR AUTO TRANSFER
SWITCH CONTROL SIGNALS
SEE DRAWING E-1, DETAIL 4.



4 E3 RADIO TELEMETRY ALARM SCHEDULE SCALE: NONE PUMP STATION

CHANNEL	ALARM DESCRIPTION
1	COMBINED GENERATOR FAULT/E-STOP PUSHED
2	COMBINED GENERATOR LOW FUEL, TANK RUPTURE ALARMS
3	COMBINED WET WELL LOW LEVEL ALARM
4	COMBINED WET WELL HIGH LEVEL ALARMS
5	BACKUP FLOATS ACTIVATED
6	COMBINED STATION ϵ HEAT TRACE LOW TEMPERATURE ALARM
7	COMBINED CONTROL POWER ϵ PHASE FAILURE ALARMS
8	COMBINED PUMP HIGH TEMP ϵ MOTOR STARTER ALARMS

PROVIDE PROGRAMMING & ANY
WIRING CHANGES NECESSARY
AT SOMESVILLE WASTE WATER
TREATMENT FACILITY RADIO
TELEMETRY.

PROGRAM EXISTING INDUSTRIAL
ALARM PROCESSOR DIALER
WITH NEW ALARM MESSAGES.