

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

HNTB



PORTLAND CUMBERLAND COUNTY

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
MAINEDOT WIN 022809.50

PROJECT LENGTH : 0.52 MILES

PLAN LEGEND

Town, County, State	Catch Basins	Existing	Proposed
Property Lines	Manholes	Existing	Proposed
R/W Lines-Existing	Proposed Underdrain		
R/W Lines-Proposed	Proposed Ditch		
Culvert-Existing	Existing Ditch		
Culvert Proposed	Utility Poles	Existing	Proposed
Curbing	Existing	Proposed	Fire Hydrants
Type 1	Existing	Proposed	Existing
Type 3	Existing	Proposed	Existing
Type 5	Existing	Proposed	Existing
Outline of Bodies of Water	Existing Water Line		
Exposed Bedrock	Existing San. Sewer		
Buildings	Existing San. Sewer Manhole		
Trees	Guardrail-Existing		
Tree Line	Guardrail-Proposed		
Clearing Limit Line	Guardrail-Cable, Other		
Railroad	Centerline-Existing		
	Centerline-Proposed		
	Travelway-Existing		
	Travelway-Proposed		
Boring	Probe	P-#.X	
Pavement Core		#.# = Depth	
Test Pit		X = W (Weathered Rock)	
		R (Refusal)	
		NR (No Refusal)	

INDEX OF SHEETS

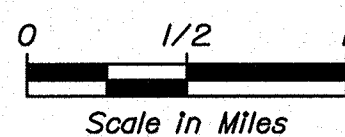
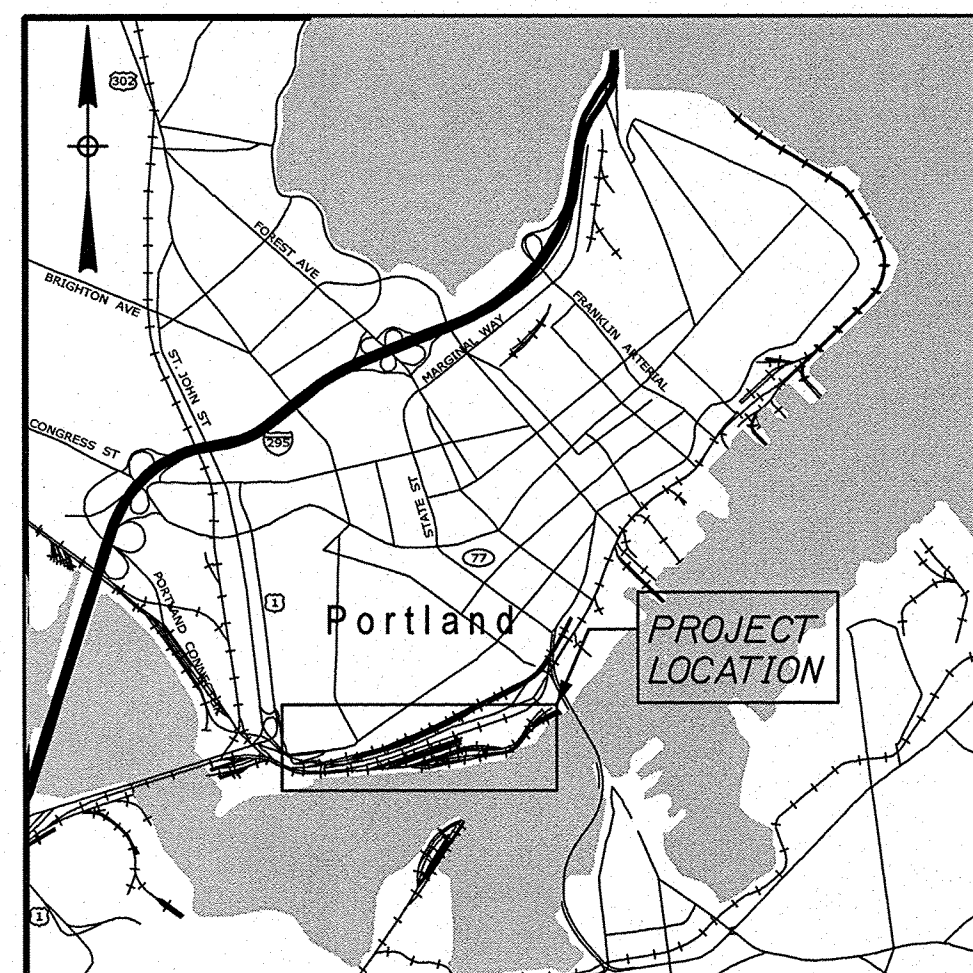
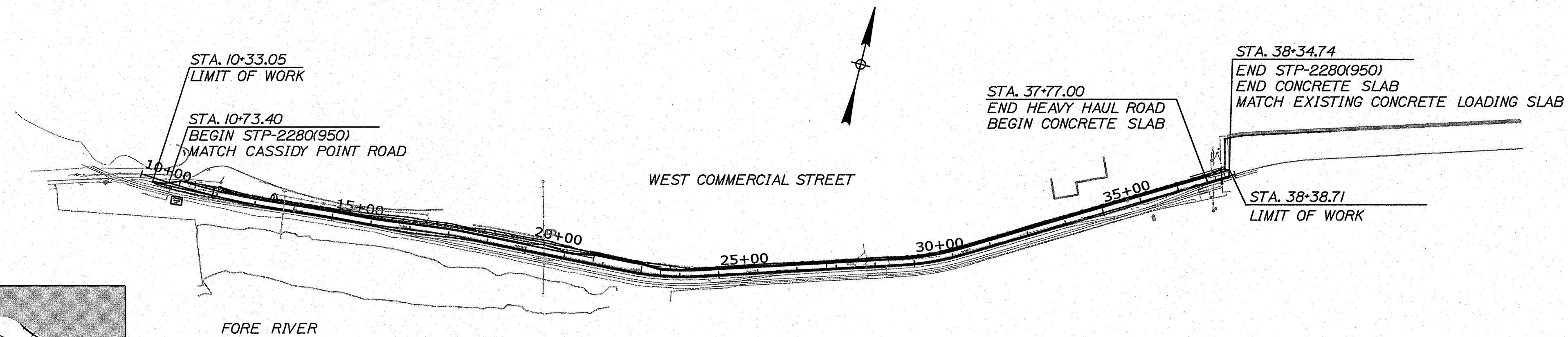
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Boring Logs	6-7
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Cross Sections	15-33

Date: 3/7/2023

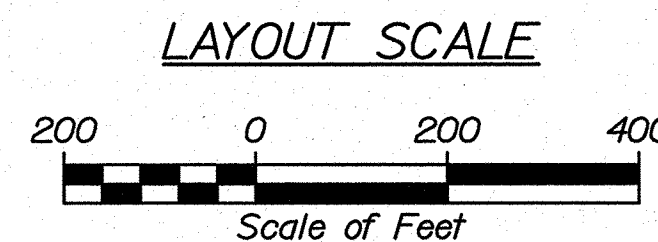
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Division:

Filename: 001_Title.dgn



LOCATION MAP



THE PROFESSIONAL ENGINEER WHOSE STAMP APPEARS ON THIS COVER SHEET BEARS RESPONSIBILITY FOR THE FOLLOWING SHEETS WITHIN THIS DRAWING SET:

GENERAL	1-4
STRUCTURAL	8-9
HIGHWAY	10-33

ADDITIONAL WORK APPEARS WITHIN THIS DRAWING SET AND IS THE RESPONSIBILITY OF THE FOLLOWING ORGANIZATIONS, WHOSE STAMP APPEARS ON THOSE INDIVIDUAL SHEETS:

GEOTECHNICAL	5-7	GEOTECHNICAL BORING LOGS	SCHONEWALD ENGINEERING ASSOC., INC.
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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		3-15-23
CHIEF ENGINEER: <i>[Signature]</i>		3-15-2023

STATE OF MAINE RAYMOND W. CORNEAU II No. 13015 PROFESSIONAL ENGINEER	SIGNATURE	DATE
<i>[Signature]</i>	13015	03/08/23
	P.E. NUMBER	

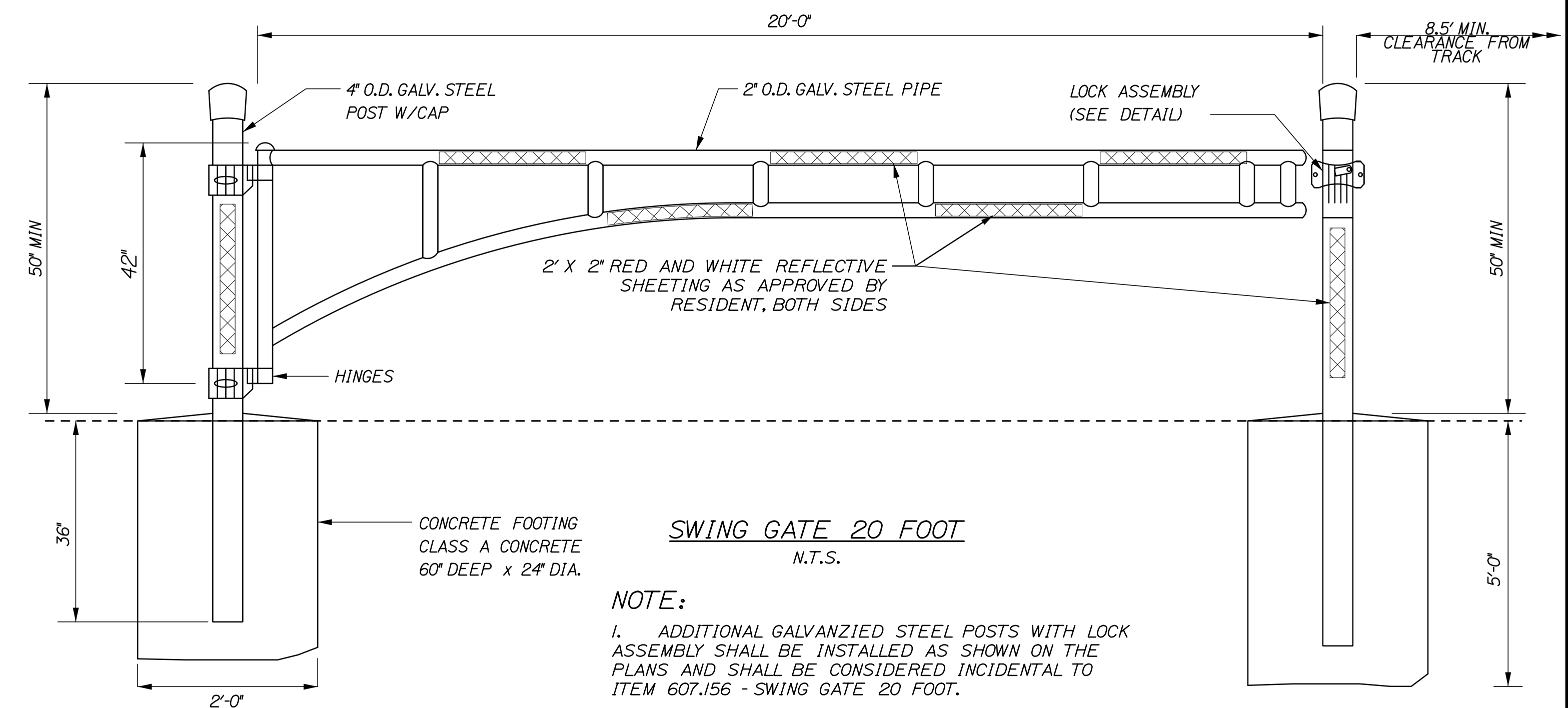
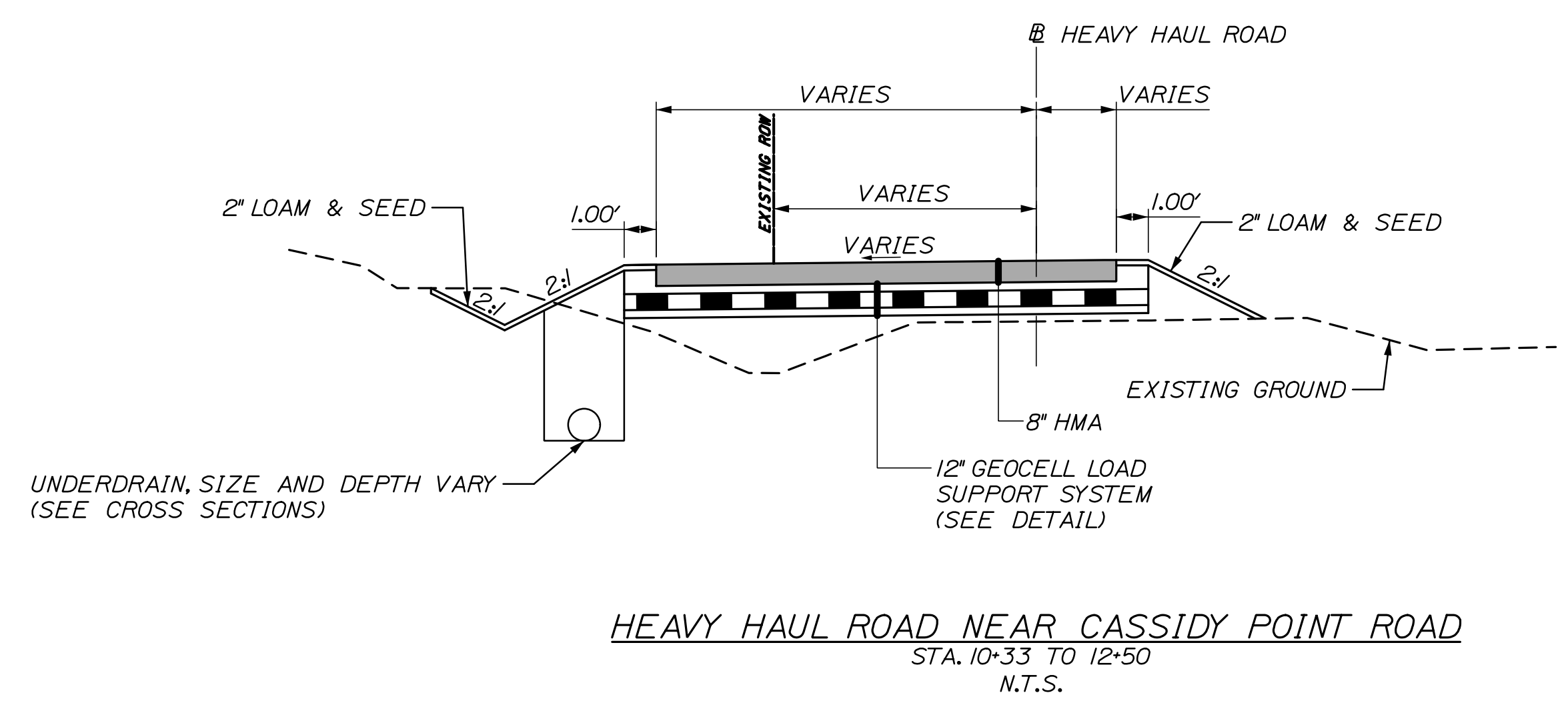
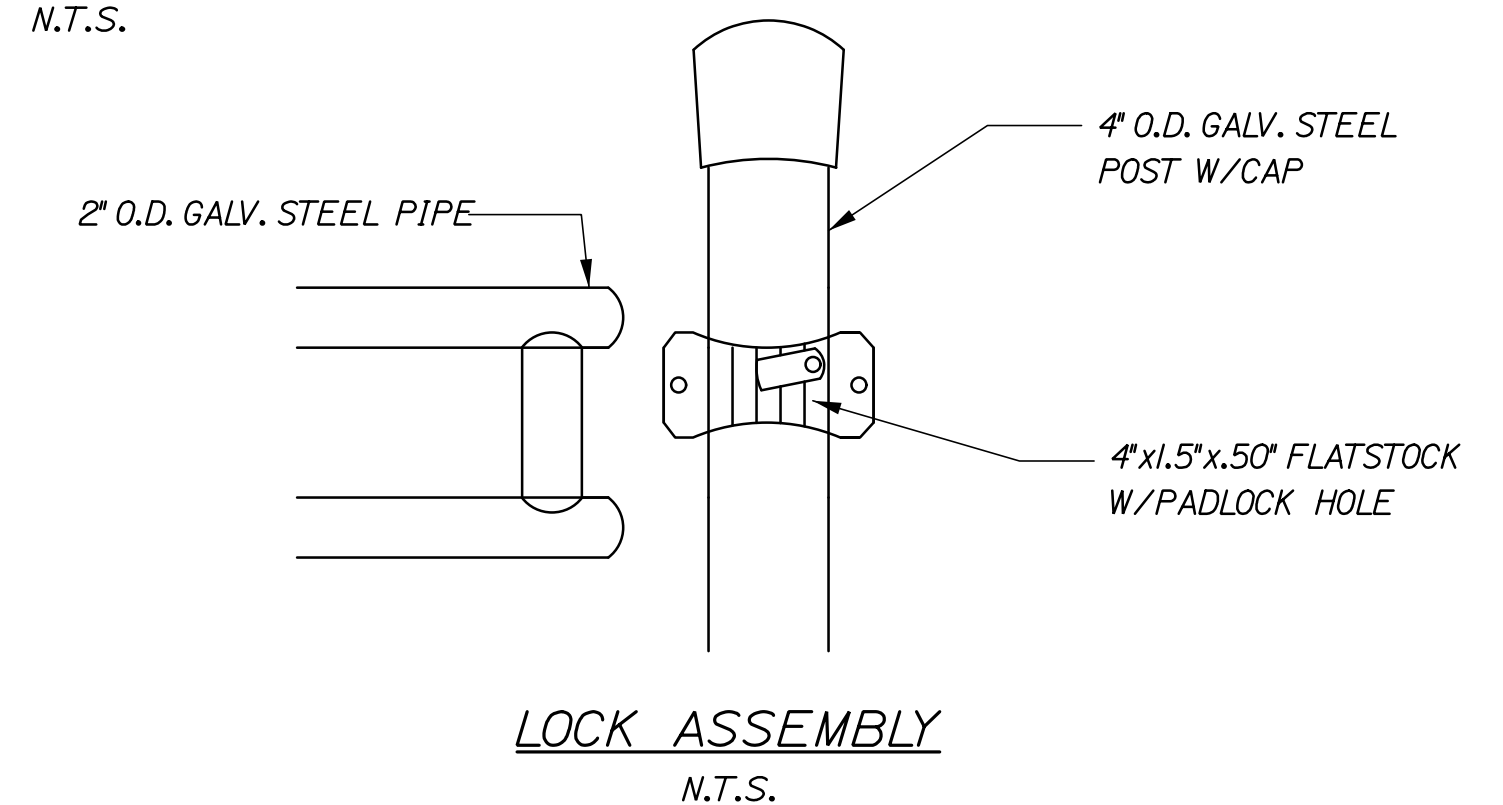
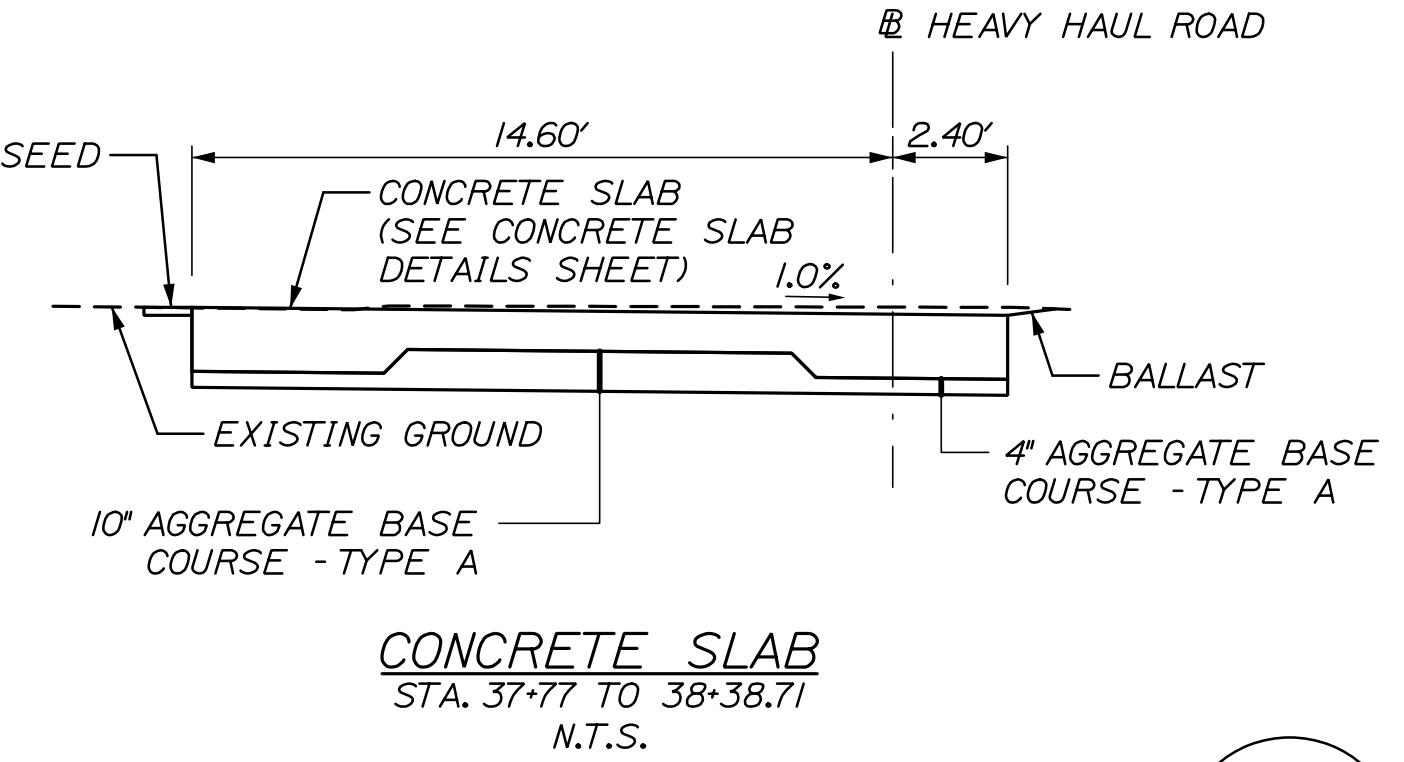
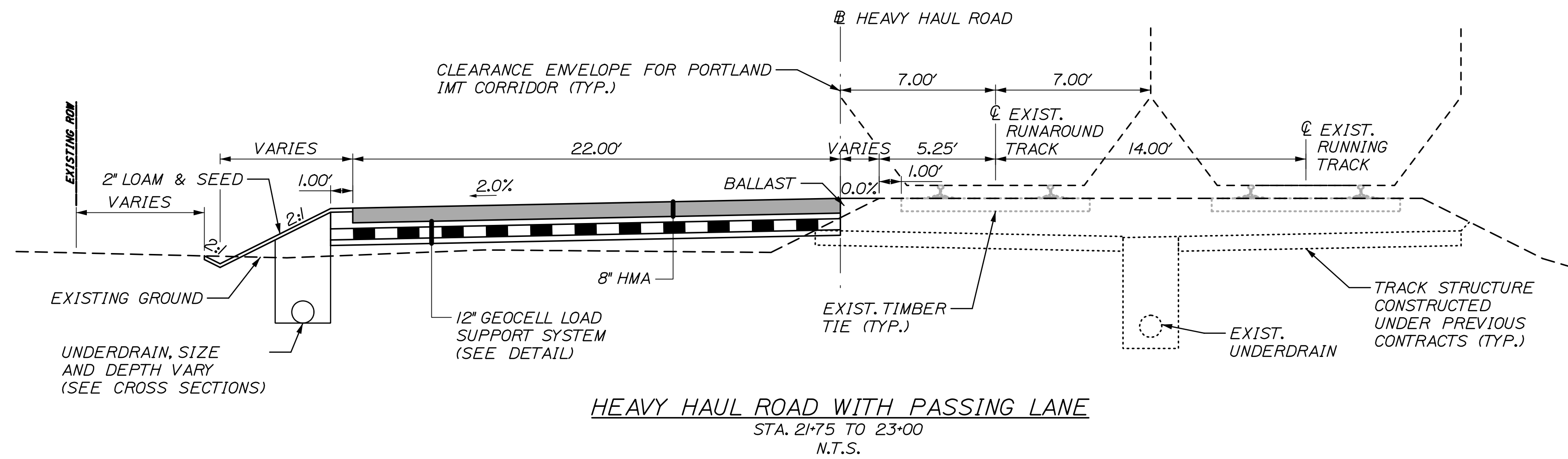
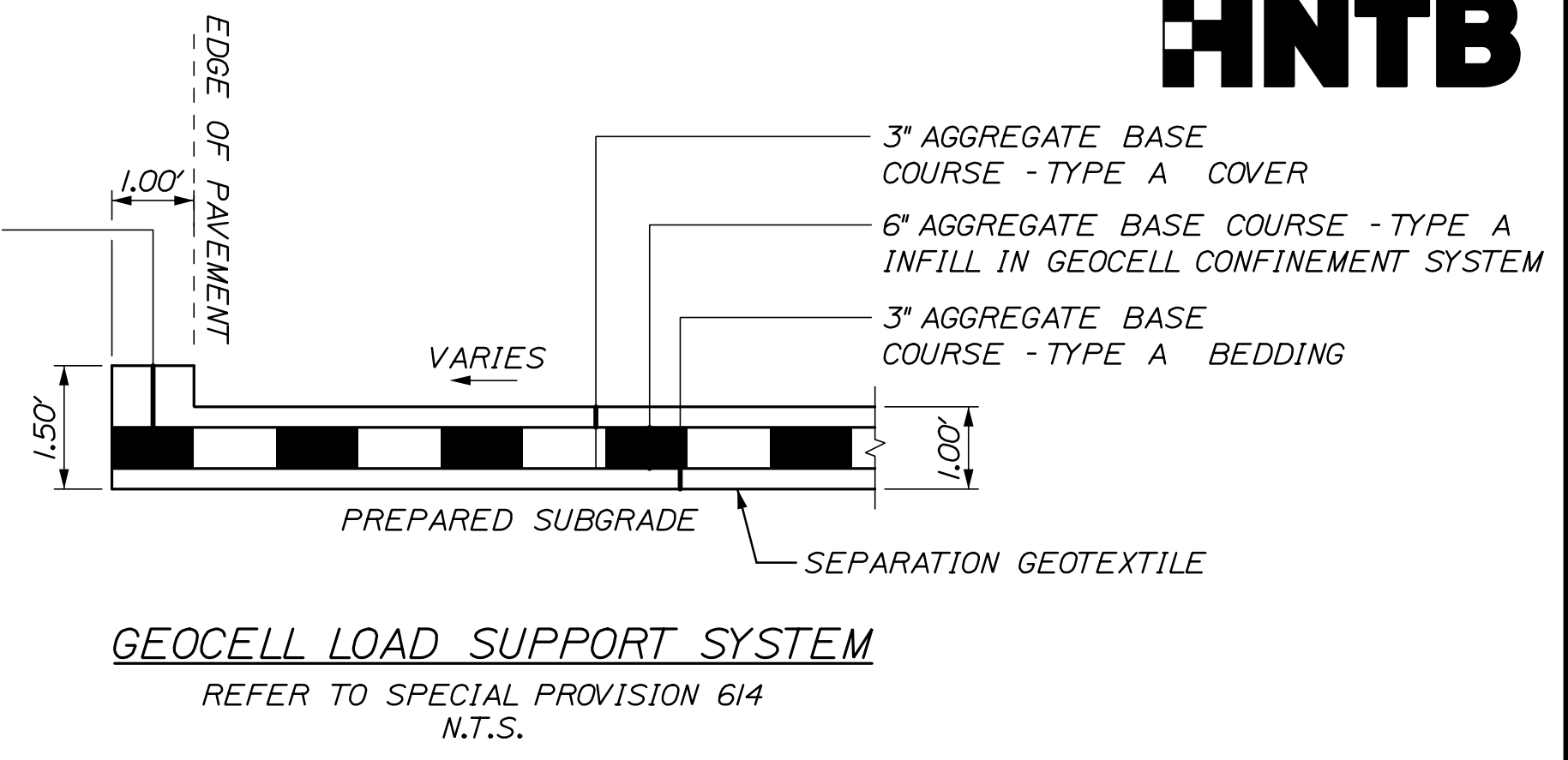
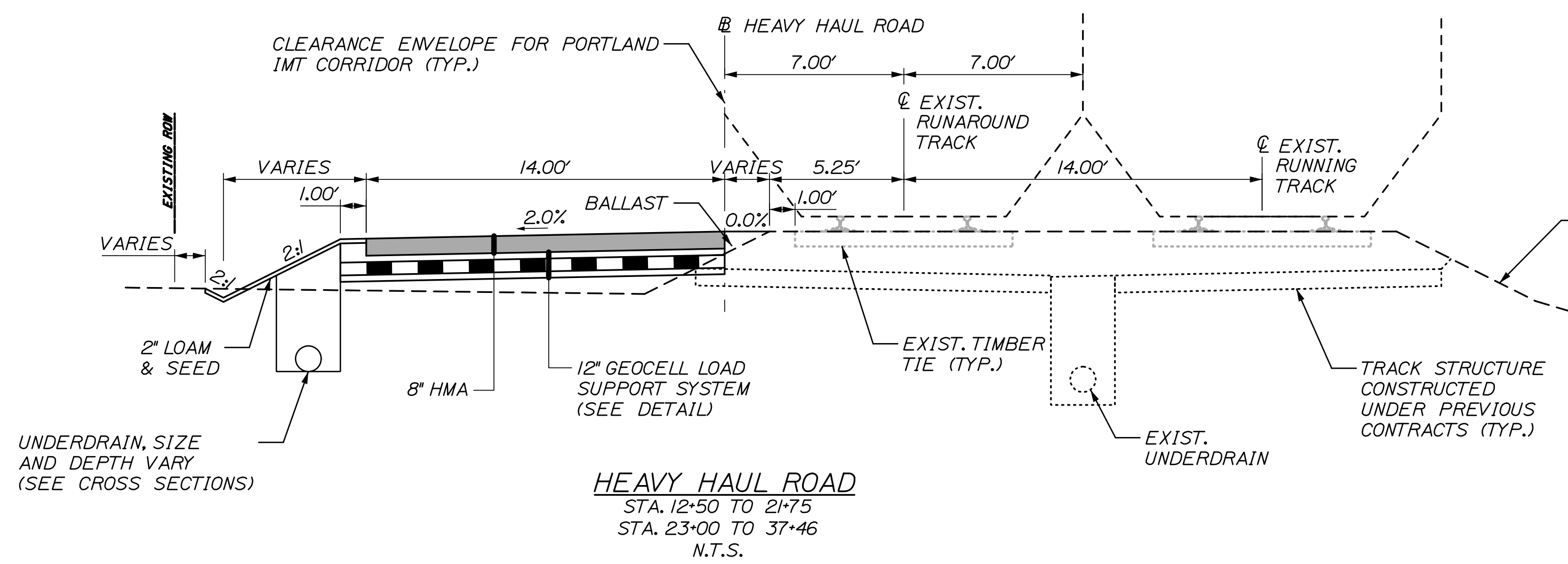
PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
	MULTIMODAL	RAYMOND W. CORNEAU II	RAY W. CORNEAU II, P.E.	HNTB			

**PORTLAND
HEAVY HAUL ROAD
TITLE SHEET**

SHEET NUMBER
1
OF 33

WIN 022809.50

PROJECT LOCATION:	Beginning at Cassidy Point Road and extending 0.52 Miles East to the Portland International Marine Terminal
PROGRAM AREA:	Multimodal
SCOPE OF WORK:	Heavy Haul Road Construction



- NOTES:**
1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
 2. THE STATIONING SHOWN UNDER EACH TYPICAL SECTION IS APPROXIMATE.

- NOTE:**
1. ADDITIONAL GALVANIZED STEEL POSTS WITH LOCK ASSEMBLY SHALL BE INSTALLED AS SHOWN ON THE PLANS AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 607.156 - SWING GATE 20 FOOT.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02280950	WIN 022809.50
PROJ. MANAGER	DATE	BY	DATE
DESIGN-DETAILED	03/23	EPR	03/23
CHECKED-REVIEWED		RWH	
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD		SIGNATURE	
PORTLAND CUMBERLAND COUNTY		P.E. NUMBER	
TYPICAL SECTIONS		DATE	
SHEET NUMBER			
2			
OF 33			

Date: 3/3/2023

Username:

Division:

Filename: 002_typ.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
202.121	REMOVING EXISTING CONCRETE (25 CY)	LS	1
203.20	COMMON EXCAVATION	CY	2,350
203.2312	HEALTH AND SAFETY PLAN (HASP)	LS	1
203.2341	DISPOSAL OF CONTAMINATED SOIL	TON	4,750
203.25	GRANULAR BORROW	CY	300
304.14	AGGREGATE BASE COURSE - TYPE A	CY	50
403.2071	HOT MIX ASPHALT, 19.0 mm NOMINAL MAXIMUM SIZE (POLYMER MODIFIED)	TON	1,500
403.2081	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (POLYMER MODIFIED)	TON	490
403.209	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	TON	9
409.15	BITUMINOUS TACK COAT, APPLIED	GAL	270
502.45	STRUCTURAL CONCRETE APPROACH SLAB	CY	45
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED	LB	6,100
503.15	EPOXY-COATED REINFORCING STEEL, PLACING	LB	6,100
515.20	PROTECTIVE COATING FOR CONCRETE SURFACES	SY	120
604.09	CATCH BASIN TYPE B1	EA	1
604.16	ALTERING CATCH BASIN TO MANHOLE	EA	1
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	EA	2
604.242	CATCH BASIN TYPE F3	EA	1
604.244	CATCH BASIN TYPE F4	EA	1
604.246	CATCH BASIN TYPE F5	EA	1
605.09	6 INCH UNDERDRAIN TYPE B	LF	1,350
605.11	12 INCH UNDERDRAIN TYPE C	LF	1,150
607.156	SWING GATE 20 FOOT	EA	1
607.24	REMOVE AND RESET FENCE	LF	5
607.4931	NON-MOTORIZED GATE - REMOVE AND RESET	EA	1
610.08	PLAIN RIPRAP	CY	77
613.319	EROSION CONTROL BLANKET	SY	1,600
614.301	GEOCELL LOAD SUPPORT SYSTEM	SF	43,000
615.07	LOAM	CY	150
618.14	SEEDING METHOD NUMBER 2	UNIT	25
619.12	MULCH	UNIT	25
626.111	PRECAST CONCRETE JUNCTION BOX 36 INCH	EA	14
626.21	METALLIC CONDUIT	LF	540
626.22	NON-METALLIC CONDUIT	LF	5,050
626.221	NON-METALLIC CONDUIT, CONCRETE ENCASED	LF	350
626.744	FIBER OPTIC CABLE	LS	1
629.05	HAND LABOR, STRAIGHT TIME	HR	20
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR	10
631.172	TRUCK-LARGE (INCLUDING OPERATOR)	HR	10
631.32	CULVERT CLEANER (INCLUDING OPERATORS)	HR	10
634.311	*1 AWG COPPER WIRING	LF	3,200
634.3121	*2/0 AWG COPPER WIRING	LF	6,400
639.19	FIELD OFFICE, TYPE B	EA	1
643.972	WOOD POLE	EA	2
645.106	DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	EA	4
645.108	DEMOUNT POLE	EA	2
645.116	REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	EA	4
645.118	REINSTALL POLE	EA	2
645.292	REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS TYPE II	SF	16
648.312	BALLAST	TON	350
652.33	DRUM	EA	25
652.34	CONE	EA	25
652.35	CONSTRUCTION SIGNS	SF	120
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	1
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LS	1
659.10	MOBILIZATION	LS	1

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 02280950 WIN 022809.50	PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD PORTLAND CUMBERLAND COUNTY ESTIMATED QUANTITIES
SHEET NUMBER 3	OF 33



Date: 3/31/2023

Username:

Division:

Filename: 004_gen_notes.dgn

GENERAL NOTES:

1. THESE DRAWINGS FORM PART OF THE CONTRACT DOCUMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
2. ELEVATIONS AND SOUNDINGS ARE IN FEET BASED ON PROJECT DATUM, NGVD29.
3. CONTRACTOR SHALL MAINTAIN ADEQUATE SURVEY CONTROL AT ALL TIMES TO ESTABLISH AND MAINTAIN ALL LINES AND ELEVATIONS.
4. ALL DIMENSIONS, ELEVATIONS & CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE AFFECTED PART OF THE WORK.
5. ALL NORTH ARROWS SHOWN ARE GRID NORTH BASED ON NAD83 MAINE WEST VERTICAL DATUM IS NGVD29.
6. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:
CITY OF PORTLAND, PUBLIC SERVICES ENGINEERING DEPT.
CENTRAL MAINE POWER CO.
FAIRPOINT COMMUNICATIONS
CSX TRANSPORTATION INC.
TIME WARNER CABLE
7. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.
8. THE EXACT SIZE & LOCATION OF ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. SEE SECTION 104. CARE SHALL BE TAKEN TO PROTECT ANY UTILITIES PRESENT AND ALL CONSTRUCTION SHALL BE COORDINATED WITH THE RESIDENT.
9. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS AND PERMITS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR, SAFETY, AND HEALTH, THE U.S. ARMY CORPS OF ENGINEERS, AND STATE/LOCAL WETLANDS CONTROL.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE AND CLEAN VEHICULAR AND PEDESTRIAN ACCESS TO THE ADJACENT BOAT YARD FOR THE DURATION OF THE PROJECT. ALL PROVISIONS, INCLUDING SIGNAGE, FENCING, AND MAINTENANCE SHALL BE INCIDENTAL TO 652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES. VEHICULAR ACCESS SHALL ACCOMMODATE A WB-67 AT ALL TIMES
11. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE SOIL EROSION AND WATER POLLUTION CONTROL PLAN. PAYMENT WILL BE MADE UNDER ITEM 656.75.
12. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.
13. CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH STANDARD DETAILS. LOCATION SHALL BE COORDINATED WITH THE RESIDENT.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ANY RAILROAD TIES ENCOUNTERED DURING THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO HAVE THE TIES DISPOSED OF AS DEMOLITION WASTE AT A LANDFILL APPROVED TO ACCEPT DEMOLITION WASTE/DEBRIS. IF THE CONTRACTOR ENCOUNTERS ANY OTHER POTENTIAL DEMOLITION DEBRIS AND IS NOT SURE OF HOW TO DISPOSE, THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT SHALL CONTACT THE GEOLOGIST OF MAINEDOT'S OFFICE OF SAFETY AND COMPLIANCE AT 207-624-3004 FOR CLARIFICATION.

15. DUE TO THE HISTORY OF THE PROJECT AS AN ACTIVE RAIL LINE, COAL ASH MAY BE PRESENT ON THIS PROJECT. THIS MATERIAL IS IDENTIFIED AS BEING GRAINED BLACK MATERIAL. THIS MATERIAL, IF ENCOUNTERED, MUST BE REUSED ON-SITE AS FILL MATERIAL. IF THE MATERIAL CANNOT BE REUSED ON SITE, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPROVALS OR PERMITS AND ANY REQUIRED ANALYTICAL RESULTS FOR PROPER DISPOSAL AT A LICENSED MAINE DEP FACILITY.
16. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.
17. THE CONTRACTOR SHALL PLAN AND CONDUCT WORK SO THAT UPON COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF THE SHOULDER PAVEMENT.
18. GRAVEL ENTRANCES SHALL BE CONSTRUCTED WITH 14 INCHES OF AGGREGATE BASE COURSE - TYPE A OR 11 INCHES OF AGGREGATE BASE COURSE - TYPE A AND 3 INCHES OF UNTREATED AGGREGATE SURFACE COURSE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
19. A 3-FOOT PAVED LIP SHALL BE PLACED AT ALL UNPAVED ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
20. PRIOR TO SURFACE PAVING, EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER STANDARD SPECIFICATIONS ITEM 631.32, CULVERT CLEANER (INCLUDING OPERATOR).
21. EXISTING CULVERTS AND CATCH BASINS WILL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER THE APPROPRIATE PAY ITEMS.
22. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
23. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
24. FLAT TOPS FOR CATCH BASINS ARE NOT ALLOWED UNLESS NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
25. PLASTIC END CAPS SHALL BE PLACED ON THE INLET END OF ALL DEAD-END 6-INCH TYPE B UNDERDRAIN AND SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.

26. ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO STANDARD SPECIFICATIONS SECTION 604, MANHOLES, INLETS AND CATCH BASINS.
27. ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO ALLOW FOR PROPOSED PIPE CONNECTIONS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO STANDARD SPECIFICATIONS SECTION 603, PIPE CULVERTS AND STORM DRAINS OR STANDARD SPECIFICATIONS SECTION 605, UNDERDRAINS.
28. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.
29. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL OTHER AREAS.
30. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
31. PLANS OF PREVIOUSLY CONSTRUCTED PROJECTS ARE AVAILABLE ON REQUEST AS NEEDED. CONTRACTOR SHALL MAKE THE REQUEST IN WRITING AND SPECIFY THE NATURE OF THE REQUEST AND THE INFORMATION SOUGHT.
32. THE PROJECT GEOTECHNICAL REPORT TITLED: GEOTECHNICAL DESIGN REPORT, HEAVY HAUL ROAD, INTERNATIONAL MARINE TERMINAL - PORTLAND, MAINE, MAINEDOT WIN 22809.50 DATED AUGUST, 2020 CAN BE ACCESSED AT THE MAINEDOT WEBSITE.
33. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. MAINEDOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS (IF ANY) PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.
34. AREAS ON THE PROJECT REQUIRING FILL WILL COME FROM SUITABLE SITES SUCH AS EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
35. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.
36. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
37. 'UNDETERMINED LOCATIONS' SHALL BE DETERMINED BY THE RESIDENT.
38. IN THE EVENT OF A CONFLICT OR LACK OF DETAIL, PORTLAND TECHNICAL STANDARDS SHALL APPLY UNLESS OTHERWISE APPROVED IN WRITING BY THE DEPARTMENT OF PUBLIC WORKS.

TRACK NOTES:

1. ANY DAMAGE TO THE EXISTING TRACKS, ROADS, SLOPES, OR DRAINAGE PIPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. A PORTABLE DERAIL DEVICE IS REQUIRED FOR THIS CONTRACT. SEE SPECIAL PROVISION 104.
3. THE CONTRACTOR SHALL VERIFY ALL HORIZONTAL STATIONS AND OFFSETS AND ALL VERTICAL ELEVATIONS OF PROPOSED WORK PRIOR TO THE START OF CONSTRUCTION.
4. RAILROAD VAL PLANS AND PROPERTY DOCUMENTS CAN BE MADE AVAILABLE UPON REQUEST TO MAINEDOT.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	02280950 WIN 022809.50	
PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD PORTLAND CUMBERLAND COUNTY		GENERAL NOTES
		SHEET NUMBER 4
		OF 33

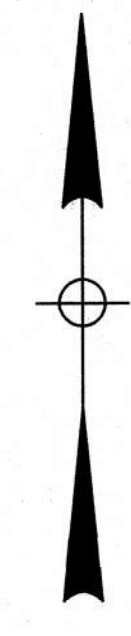
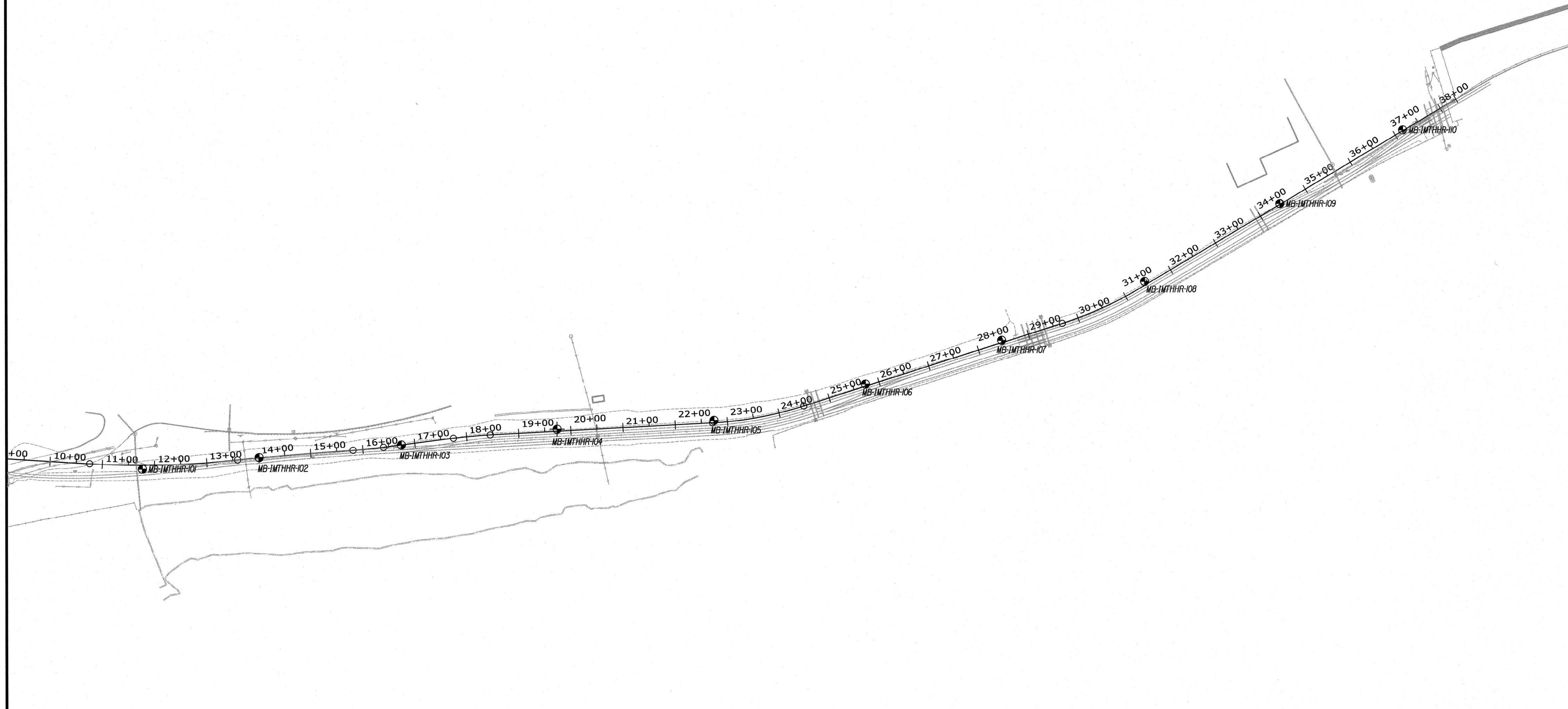


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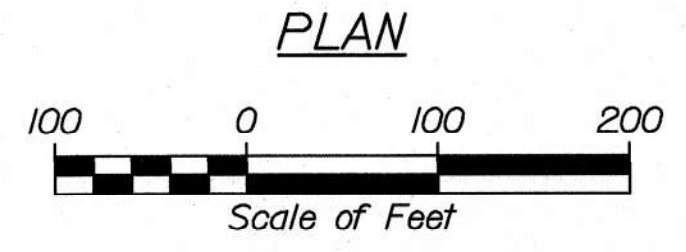
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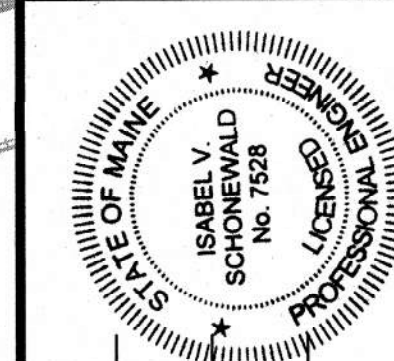


LEGEND

- CASED WASH BORING
- HOLLOW STEM AUGER BORING



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2280(950)



SIGNATURE
P.E. NUMBER 7528
DATE 12/10/20

PROJ. MANAGER	A. CORNEAU	DATE	11/20
DESIGN-DETAILED	EDD	BY	ERR
CHECKED-REVIEWED	JRH		CRM
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
BORING LOCATION PLAN

SHEET NUMBER
5
OF 33

WIN
022809.50

Maine Department of Transportation Soil/Book Exploration Log US CUSTOMARY UNITS		Project: International Marine Terminal - Heavy Haul Road Location: Portland, ME		Boring No.: MB-IMTHRR-105	WIN: 22809.50
Driller: New England Boring Contractors	Elevation (ft.): 12.1 ft	Auger ID/OD: 2.25/5.88 inches (ISA)	Sampler: standard split-spoon		
Operator: Schoefer/Titus	Status: NAV088	Rig Type: MDT16 DPT11 B-53 ATY INESC MB-105			
Logged By: Schoenwald	Hammer Wt./Fall: 140 lbs/30 inches	Core Barrel: N/A	Water Level: 6.8 ft (open)		
Date Start/Finish: 11/17/19 09:35-11:15	Drilling Method: auger boring	Coring ID/OD: 10.3 ft	Hammer Efficiency Factor: 0.707		
Boring Location: N295.155.5, E2.925.288.8	Home Type: Automatic	Hydraulic	Rope & Cathead	Notes: 1 = Back Core Sample, 2 = Solid Core Sample, 3 = Split Spoon Sample, 4 = Unsuccessful Split Spoon Sample Attempt, 5 = Thin Wall Tube Sample, 6 = Unsuccessful Thin Wall Tube Sample Attempt, 7 = Field Vane Shear Test, 8 = Pushout Penetration Test, 9 = Field Vane Shear Test, 10 = Unsuccessful Field Vane Shear Test Attempt, 11 = Unsuccessful Field Vane Shear Test Attempt	
Sample Information					
Depth (ft.)	Sample No.	Pen./Reco. (in)	Sample Depth (ft.)	Blow Count (15')	Visual Description and Remarks
10	24/18	1.0 - 3.0	3-6-8-9	14 16	DIRT ACCESS ROAD
20	24/19	3.0 - 5.0	9-13-8-8	21 25	Black, damp, ASH URBAN FILL
30	24/22	5.0 - 7.0	5-5-5-6	10 12	Black, damp, medium dense, fine to coarse SAND, trace to little silt; appears reworked, FILL. Changing at 4.3 ft to 20:1 Tan, moist, silty fine SAND, trace medium to coarse sand; appears undisturbed (notive).
40	24/12	10.0 - 12.0	2-10-9-11	19 22	40:1 Brown gray, wet, medium dense, fine to coarse SAND, some gravel, trace to little silt.
50	24/24	15.0 - 17.0	2-3-4-2	7 8	50:1 Gray brown, wet, loose, fine to medium SAND, some silt; little gravel.
Bottom of Exploration at 17.0 feet below ground surface. No refusal.					

Maine Department of Transportation Soil/Book Exploration Log US CUSTOMARY UNITS		Project: International Marine Terminal - Heavy Haul Road Location: Portland, ME		Boring No.: MB-IMTHRR-109	WIN: 22809.50
Driller: New England Boring Contractors	Elevation (ft.): 12.8 ft	Auger ID/OD: 2.25/5.88 inches (ISA)	Sampler: standard split-spoon		
Operator: Schoefer/Titus	Status: NAV088	Rig Type: MDT16 DPT11 B-53 ATY INESC MB-105			
Logged By: Schoenwald	Hammer Wt./Fall: 140 lbs/30 inches	Core Barrel: N/A	Water Level: 7.9 ft (open)		
Date Start/Finish: 10/31/19 08:45-10:05	Drilling Method: auger boring	Coring ID/OD: 10.3 ft	Hammer Efficiency Factor: 0.707		
Boring Location: N295.565.4, E2.926.412.5	Home Type: Automatic	Hydraulic	Rope & Cathead	Notes: 1 = Back Core Sample, 2 = Solid Core Sample, 3 = Split Spoon Sample, 4 = Unsuccessful Split Spoon Sample Attempt, 5 = Thin Wall Tube Sample, 6 = Unsuccessful Thin Wall Tube Sample Attempt, 7 = Field Vane Shear Test, 8 = Pushout Penetration Test, 9 = Field Vane Shear Test, 10 = Unsuccessful Field Vane Shear Test Attempt, 11 = Unsuccessful Field Vane Shear Test Attempt	
Sample Information					
Depth (ft.)	Sample No.	Pen./Reco. (in)	Sample Depth (ft.)	Blow Count (15')	Visual Description and Remarks
10	24/18	1.0 - 3.0	4-8-8-6	16 19	LOW GRASS AREA
20	24/20	3.0 - 5.0	3-2-3-3	5 6	Black, damp, fine to coarse SAND, some silt; little gravel. Changing at 2.7 ft to 10:1 Tan, moist, fine to medium SAND, little silt, trace to little clay, trace coarse sand; with pockets of silt-clay, FILL. 20:1 Tan, moist, loose, fine to medium SAND, some silt, trace coarse sand; appears reworked, FILL.
30	24/24	5.0 - 7.0	2-2-2-2	4 5	30:1 Tan, wet, very loose, silty fine to medium SAND, trace coarse sand; appears reworked, FILL.
40	24/18	10.0 - 12.0	2-8-13-14	21 25	40:1 Tan, wet, silty fine to medium SAND, trace coarse sand; appears reworked, FILL. Changing at 11.0 ft to 40:1 Orange tan, wet, fine to medium SAND, trace to little silt, trace coarse sand; appears undisturbed (notive).
50	24/24	15.0 - 17.0	3-11-11-18	22 26	50:1 Orange tan, wet, medium dense, fine to medium SAND, trace to little silt, trace coarse sand; with 4-inch layer ORGANIC SILT and wood at 16 feet and 6 inches of coarse silt and material at bottom of sample.
Bottom of Exploration at 17.0 feet below ground surface. No refusal.					

Maine Department of Transportation Soil/Book Exploration Log US CUSTOMARY UNITS		Project: International Marine Terminal - Heavy Haul Road Location: Portland, ME		Boring No.: MB-IMTHRR-106	WIN: 22809.50
Driller: New England Boring Contractors	Elevation (ft.): 12.3 ft	Auger ID/OD: 2.25/5.88 inches (ISA)	Sampler: standard split-spoon		
Operator: Schoefer/Titus	Status: NAV088	Rig Type: MDT16 DPT11 B-53 ATY INESC MB-105			
Logged By: Schoenwald	Hammer Wt./Fall: 140 lbs/30 inches	Core Barrel: N/A	Water Level: 6.8 ft (open)		
Date Start/Finish: 11/17/19 09:00-09:30	Drilling Method: auger boring	Coring ID/OD: 10.3 ft	Hammer Efficiency Factor: 0.707		
Boring Location: N295.623.5, E2.925.618.4	Home Type: Automatic	Hydraulic	Rope & Cathead	Notes: 1 = Back Core Sample, 2 = Solid Core Sample, 3 = Split Spoon Sample, 4 = Unsuccessful Split Spoon Sample Attempt, 5 = Thin Wall Tube Sample, 6 = Unsuccessful Thin Wall Tube Sample Attempt, 7 = Field Vane Shear Test, 8 = Pushout Penetration Test, 9 = Field Vane Shear Test, 10 = Unsuccessful Field Vane Shear Test Attempt, 11 = Unsuccessful Field Vane Shear Test Attempt	
Sample Information					
Depth (ft.)	Sample No.	Pen./Reco. (in)	Sample Depth (ft.)	Blow Count (15')	Visual Description and Remarks
10	24/15	1.0 - 3.0	23-22-23-16	45 53	DIRT ACCESS ROAD
20	24/15	3.0 - 5.0	5-7-7-5	14 16	10:1 Black brown, damp, dense, gravelly fine to coarse SAND, little to some silt, with significant ASH, URBAN FILL.
30	24/18	5.0 - 7.0	4-3-5-11	8 9	Black, damp, medium dense, fine to coarse SAND, little to some silt, with significant ASH, URBAN FILL. Changing at 4.4 ft to 20:1 Tan, moist, silty fine SAND, some silt, trace coarse sand; appears undisturbed (notive).
40	24/10	10.0 - 12.0	4-7-18-15	25 29	40:1 Tan, wet, medium dense, fine to coarse SAND, some gravel, trace to little silt.
50	12/10	15.0 - 16.0	5-8 (blow sand)	---	50:1 Gray tan, wet, fine to medium SAND, little gravel, trace coarse sand; silty blowing sand.
Bottom of Exploration at 16.0 feet below ground surface. No refusal.					

Maine Department of Transportation Soil/Book Exploration Log US CUSTOMARY UNITS		Project: International Marine Terminal - Heavy Haul Road Location: Portland, ME		Boring No.: MB-IMTHRR-110	WIN: 22809.50
Driller: New England Boring Contractors	Elevation (ft.): 14.0 ft	Auger ID/OD: 2.25/5.88 inches (ISA)	Sampler: standard split-spoon		
Operator: Schoefer/Titus	Status: NAV088	Rig Type: MDT16 DPT11 B-53 ATY INESC MB-105			
Logged By: Schoenwald	Hammer Wt./Fall: 140 lbs/30 inches	Core Barrel: N/A	Water Level: 7.4 ft (open)		
Date Start/Finish: 10/20/19 15:00-10/21/19 08:40	Drilling Method: auger boring	Coring ID/OD: 10.3 ft	Hammer Efficiency Factor: 0.707		
Boring Location: N295.104.4, E2.926.447.6	Home Type: Automatic	Hydraulic	Rope & Cathead	Notes: 1 = Back Core Sample, 2 = Solid Core Sample, 3 = Split Spoon Sample, 4 = Unsuccessful Split Spoon Sample Attempt, 5 = Thin Wall Tube Sample, 6 = Unsuccessful Thin Wall Tube Sample Attempt, 7 = Field Vane Shear Test, 8 = Pushout Penetration Test, 9 = Field Vane Shear Test, 10 = Unsuccessful Field Vane Shear Test Attempt, 11 = Unsuccessful Field Vane Shear Test Attempt	
Sample Information					
Depth (ft.)	Sample No.	Pen./Reco. (in)	Sample Depth (ft.)	Blow Count (15')	Visual Description and Remarks
10	24/17	1.0 - 3.0	4-7-9-15	16 19	LOW GRASS AREA
20	24/14	3.0 - 5.0	13-16-20-16	36 42	10:1 Dark brown block, moist, medium dense, fine to coarse SAND, some silt, little gravel (ASH) URBAN FILL. Changing at 2.7 ft to 10:1 Tan, moist, fine to medium SAND, little silt, trace coarse sand; trace gravel; appears reworked, FILL. 20:1 Tan and 10:1 Tan, moist, dense, fine to medium SAND, trace silt, trace gravel, trace coarse sand, with pockets of silt-clay, FILL. 30:1 Tan light brown, moist, medium dense, fine to medium SAND, trace silt, trace gravel, trace coarse sand, with pockets of silt-clay and pieces of brick, FILL.
30	24/15	5.0 - 7.0	6-13-13-18	26 31	30:1 Tan, wet, very loose, fine to medium SAND, trace coarse sand; appears reworked, FILL.
40	24/18	10.0 - 12.0	2-4-9-11	13 15	40:1 Gray tan, wet, medium dense, fine to medium SAND, little silt, trace gravel, trace coarse sand; with rust-colored silt and some gray brown silty fine sand; layer appears undisturbed (notive).
50	24/16	15.0 - 17.0	1-2-2-3	4 8	50:1 Gray tan, wet, very loose, fine to medium SAND, trace to little silt, trace fine gravel, trace coarse sand, with 4-inch layer ORGANIC SILT and wood at 16 feet and 6 inches of coarse silt and material at bottom of sample.
Bottom of Exploration at 17.0 feet below ground surface. No refusal.					

Maine Department of Transportation Soil/Book Exploration Log US CUSTOMARY UNITS		Project: International Marine Terminal - Heavy Haul Road Location: Portland, ME		Boring No.: MB-IMTHRR-107	WIN: 22809.50
Driller: New England Boring Contractors	Elevation (ft.): 12.3 ft	Auger ID/OD: 2.25/5.88 inches (ISA)	Sampler: standard split-spoon		
Operator: Schoefer/Titus	Status: NAV088	Rig Type: MDT16 DPT11 B-53 ATY INESC MB-105			
Logged By: Schoenwald	Hammer Wt./Fall: 140 lbs/30 inches	Core Barrel: N/A	Water Level: 6.8 ft (open)		
Date Start/Finish: 10/31/19 10:00-11:00	Drilling Method: auger boring w/ rod probe	Coring ID/OD: 10.3 ft	Hammer Efficiency Factor: 0.707		
Boring Location: N295.306.3, E2.925.879.4	Home Type: Automatic	Hydraulic	Rope & Cathead	Notes: 1 = Back Core Sample, 2 = Solid Core Sample, 3 = Split Spoon Sample, 4 = Unsuccessful Split Spoon Sample Attempt, 5 = Thin Wall Tube Sample, 6 = Unsuccessful Thin Wall Tube Sample Attempt, 7 = Field Vane Shear Test, 8 = Pushout Penetration Test, 9 = Field Vane Shear Test, 10 = Unsuccessful Field Vane Shear Test Attempt, 11 = Unsuccessful Field Vane Shear Test Attempt	
Sample Information					
Depth (ft.)	Sample No.	Pen./Reco. (in)	Sample Depth (ft.)	Blow Count (15')	Visual Description and Remarks
10	24/12	1.0 - 3.0	11-7-4-7	11 13	DIRT ACCESS ROAD
20	24/14	3.0 - 5.0	3-3-2-6	5 6	10:1 Dark brown block, damp, medium dense, silty sand, with gravel URBAN FILL, predominantly ASH, with granite and brick fragments.
30	24/13	5.0 - 7.0	4-6-4-2	10 12	20:1 Dark brown block, damp to moist, loose, silty sand with gravel (fine to medium SAND, some silt, little fine gravel) URBAN FILL, predominantly ASH, with granite and brick fragments.
40	24/8	10.0 - 12.0	2-3-1-1	4 5	40:1 Dark brown block, moist, loose, silty sand with gravel URBAN FILL, predominantly ASH, with granite and brick fragments.
50	24/24	15.0 - 17.0	NR/12"	---	50:1 Gray, moist, to wet, very loose, fine sandy ORGANIC SILT.
60	24/24	20.0 - 22.0	NR/12"	---	60:1 Dark gray, saturated, very soft, silty CLAY, little fine sand, with small fragments.
Hydraulic push rod probe from 22 to 50 feet: minor resistance.					
Rod probe continued.					

Maine Department of Transportation Soil/Book Exploration Log US CUSTOMARY UNITS		Project: International Marine Terminal - Heavy Haul Road Location: Portland, ME		Boring No.: MB-IMTHRR-108	WIN: 22809.50
Driller: New England Boring Contractors	Elevation (ft.): 11.8 ft (est'd)	Auger ID/OD: 2.25/5.88 inches (ISA)	Sampler: standard split-spoon		
Operator: Schoefer/Titus	Status: NAV088	Rig Type: MDT16 DPT11 B-53 ATY INESC MB-105			
Logged By: Schoenwald	Hammer Wt./Fall: 140 lbs/30 inches	Core Barrel: N/A	Water Level: 6.3 ft		
Date Start/Finish: 10/31/19 10:10-11:50	Drilling Method: auger boring	Coring ID/OD: 10.3 ft	Hammer Efficiency Factor: 0.707		
Boring Location: N295.418.0, E2.926.153.2	Home Type: Automatic	Hydraulic	Rope & Cathead	Notes: 1 = Back Core Sample, 2 = Solid Core Sample, 3 = Split Spoon Sample, 4 = Unsuccessful Split Spoon Sample Attempt, 5 = Thin Wall Tube Sample, 6 = Unsuccessful Thin Wall Tube Sample Attempt, 7 = Field Vane Shear Test, 8 = Pushout Penetration Test, 9 = Field Vane Shear Test, 10 = Unsuccessful Field Vane Shear Test Attempt, 11 = Unsuccessful Field Vane Shear Test Attempt	
Sample Information					
Depth (ft.)	Sample No.	Pen./Reco. (in)	Sample Depth (ft.)	Blow Count (15')	Visual Description and Remarks
10	24/19	1.0 - 3.0	10-28-27-13	56 64	LOW GRASS AREA
20	24/10	3.0 - 5.0	3-3-12	8 9	10:1 Gray tan, damp, very dense, fine to medium SAND, little to some silt, little fine gravel, trace coarse sand; appears reworked, MISC FILL.
30	24/16	5.0 - 7.0	3-8-5-4	14 16	20:1 Tan, moist, loose, fine to medium SAND, trace to little silt, trace fine gravel, trace coarse sand; appears reworked, MISC FILL.
40	24/9	10.0 - 12.0	15-10-1-1	11 13	40:1 Eight-inch layer Gray brown, silty MISC FILL overlying Brown, moist, fine to medium SAND, little to some silt, little fine gravel, trace coarse sand; appears reworked, FILL.
50	24/18	15.0 - 17.0	5-4-2-3	6 7	Two-inch layer Orange tan, wet, fine to coarse SAND, little fine gravel, trace silt, with crushed brick-URBAN FILL. Changing at 11.6 ft to 40:1 Gray, wet, fine sandy SILT, trace medium to coarse sand, trace fine gravel; possibly undisturbed (notive).
60	24/18	15.0 - 17.0	5-4-2-3	6 7	50:1 Gray, wet, loose, fine to medium SAND, some organic silt, little gravel, trace coarse sand, with shells throughout; appears undisturbed (notive).
Bottom of Exploration at 17.0 feet below ground surface. No refusal.					

Maine Department of Transportation Soil/Book Exploration Log US CUSTOMARY UNITS		Project: International Marine Terminal - Heavy Haul Road Location: Portland, ME		Boring No.: MB-IMTHRR-107	WIN: 22809.50
Driller: New England Boring Contractors	Elevation (ft.): 12.3 ft	Auger ID/OD: 2.25/5.88 inches (ISA)	Sampler: standard split-spoon		
Operator: Schoefer/Titus	Status: NAV088	Rig Type: MDT16 DPT11 B-53 ATY INESC MB-105			
Logged By: Schoenwald	Hammer Wt./Fall: 140 lbs/30 inches	Core Barrel: N/A	Water Level: 6.8 ft (open)		
Date Start/Finish: 11/17/19 09:00-09:30	Drilling Method: auger boring	Coring ID/OD: 10.3 ft	Hammer Efficiency Factor: 0.707		
Boring Location: N295.623.5, E2.925.618.4	Home Type: Automatic	Hydraulic	Rope & Cathead	Notes: 1 = Back Core Sample, 2 = Solid Core Sample, 3 = Split Spoon Sample, 4 = Unsuccessful Split Spoon Sample Attempt, 5 = Thin Wall Tube Sample, 6 = Unsuccessful Thin Wall Tube Sample Attempt, 7 = Field Vane Shear Test, 8 = Pushout Penetration Test, 9 = Field Vane Shear Test, 10 = Unsuccessful Field Vane Shear Test Attempt, 11 = Unsuccessful Field Vane Shear Test Attempt	
Sample Information					
Depth (ft.)	Sample No.	Pen./Reco. (in)	Sample Depth (ft.)	Blow Count (15')	Visual Description and Remarks
10	24/15	1.0 - 3.0	23-22-23-16	45 53	DIRT ACCESS ROAD
20	24/15	3.0 - 5.0	5-7-7-5	14 16	10:1 Black brown, damp, dense, gravelly fine to coarse SAND, little to some silt, with significant ASH, URBAN FILL.
30	24/18	5.0 - 7.0	4-3-5-11	8 9	Black, damp, medium dense, fine to coarse SAND, little to some silt, with significant ASH, URBAN FILL. Changing at 4.4 ft to 20:1 Tan, moist, silty fine SAND, some silt, trace coarse sand; appears undisturbed (notive).
40	24/10	10.0 - 12.0	4-7-18-15	25 29	40:1 Tan, wet, medium dense, fine to coarse SAND, some gravel, trace to little silt.
50	12/10	15.0 - 16.0	5-8 (blow sand)	---	50:1 Gray tan, wet, fine to medium SAND, little gravel, trace coarse sand; silty blowing sand.
Bottom of Exploration at 16.0 feet below ground surface. No refusal.					

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2280(950)

ISABEL V. SCHONWALD
No. 7528
LICENSED PROFESSIONAL ENGINEER

SIGNATURE: ISABEL V. SCHONWALD
P.E. NUMBER: 7528
DATE: 12/10/20

PROJ. MANAGER: A. CORNEAU
DESIGN-DETAILED: EDD
CHECKED-REVIEWED: JRH
DESIGN-DETAILED: JRH
DESIGN-DETAILED: JRH
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
BORING LOGS 2

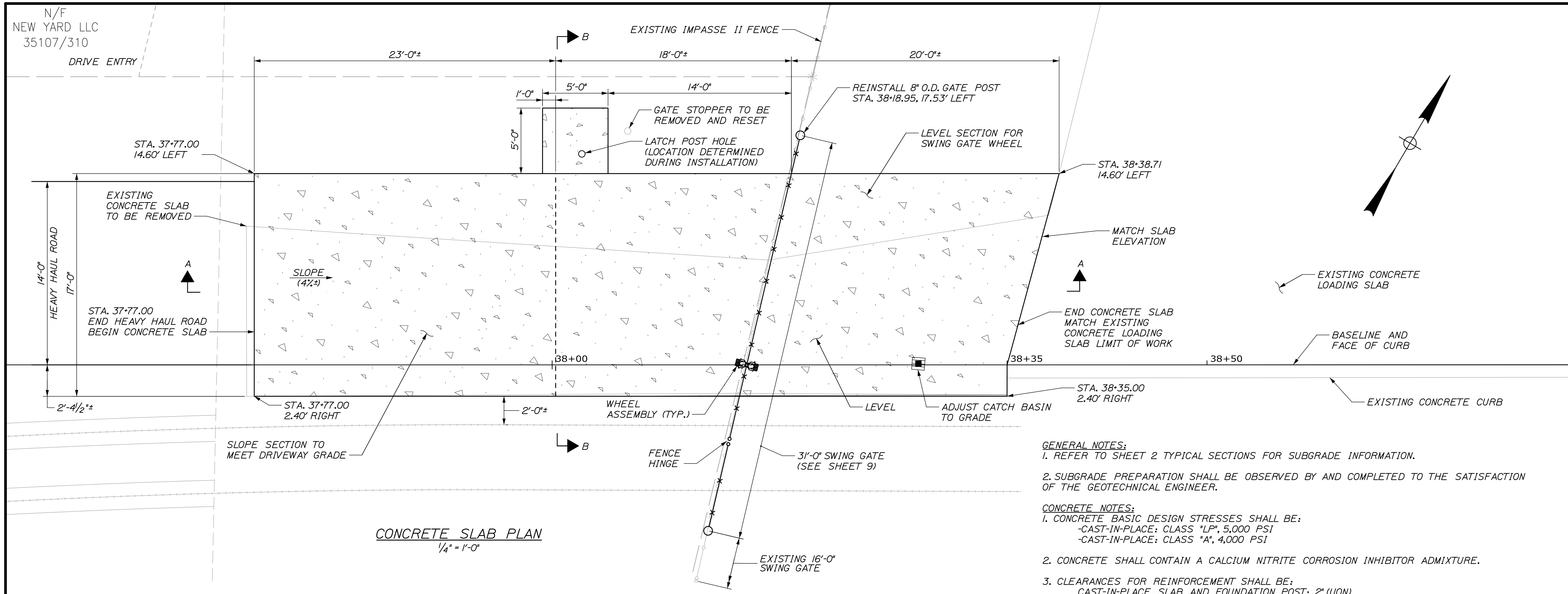
SHEET NUMBER 7 OF 33

Date: 3/3/2023

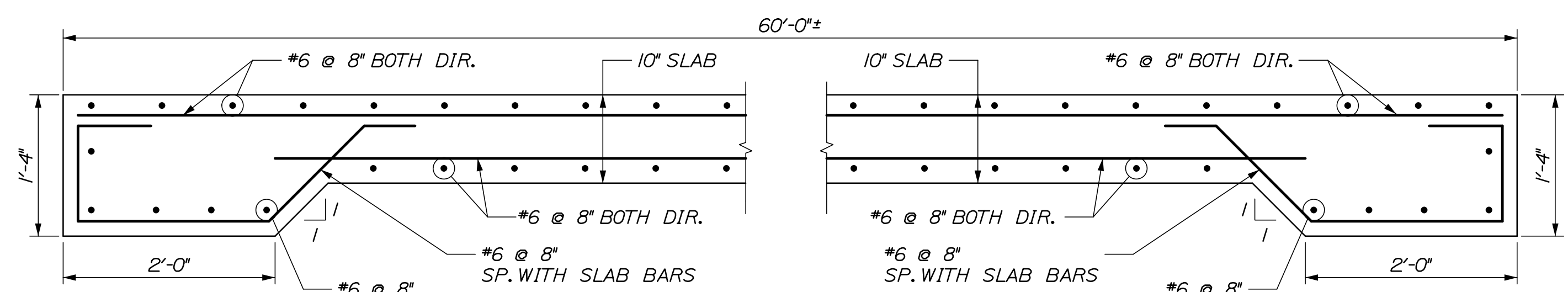
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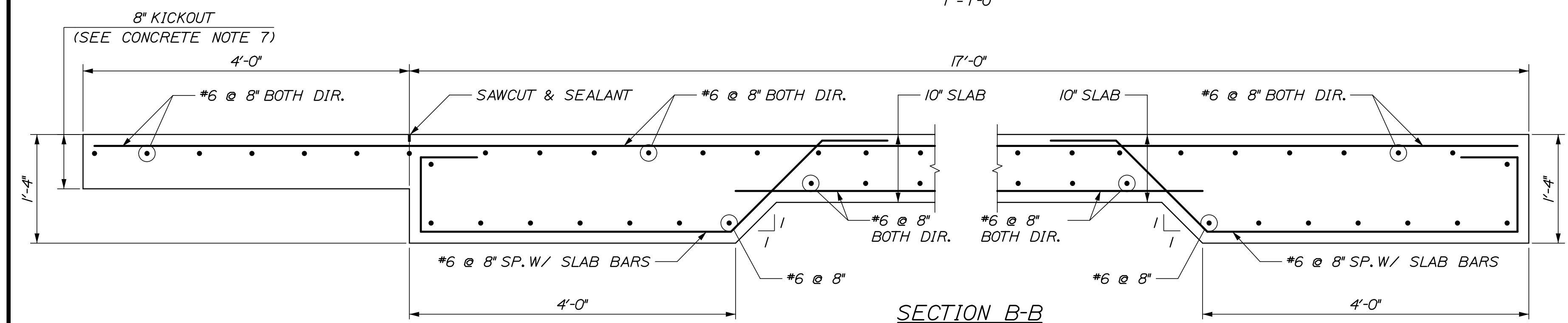
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CONCRETE SLAB PLAN
1/4" = 1'-0"



SECTION A-A
(SEE GENERAL NOTE 1)
1" = 1'-0"



SECTION B-B
(SEE GENERAL NOTE 1)
1" = 1'-0"

GENERAL NOTES:
1. REFER TO SHEET 2 TYPICAL SECTIONS FOR SUBGRADE INFORMATION.
2. SUBGRADE PREPARATION SHALL BE OBSERVED BY AND COMPLETED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

CONCRETE NOTES:
1. CONCRETE BASIC DESIGN STRESSES SHALL BE:
-CAST-IN-PLACE: CLASS "LP", 5,000 PSI
-CAST-IN-PLACE: CLASS "A", 4,000 PSI
2. CONCRETE SHALL CONTAIN A CALCIUM NITRITE CORROSION INHIBITOR ADMIXTURE.
3. CLEARANCES FOR REINFORCEMENT SHALL BE:
CAST-IN-PLACE SLAB AND FOUNDATION POST: 2" (UON)
4. WET CURING OF CONCRETE IS TO BEGIN WITHIN 30 MINUTES AFTER CONCRETE FINISHING, OR AS SOON AS POSSIBLE WITHOUT DAMAGING FINISHED SURFACE.

5. ALL FORMWORK FOR CONCRETE SHALL BE LEFT IN PLACE AND CONCRETE SURFACES SHALL BE COVERED AND KEPT MOIST FOR A PERIOD OF NOT LESS THAN TWO (2) FULL DAYS AFTER CONCRETE PLACEMENTS.
6. SAWCUT TOP 1 1/2" OF SLAB EVERY 10 FT LONGITUDINALLY FOLLOWING CONCRETE PLACEMENT AND SAWCUT @ CENTERLINE OF ROADWAY. FILL SAWCUTS WITH SELF-LEVELING, 1-PART POLYURETHANE SEALANT.
7. CONCRETE KICKOUT SHALL ONLY BE PLACED AT LOCATION AS SPECIFIED IN PLAN.

REINFORCING STEEL NOTES:
1. ALL REINFORCING SHALL BE FULLY SUPPORTED ON NON-METALLIC APPROVED CHAIRS. REINFORCING SHALL NOT BE SUPPORTED ON TIMBER BLOCKS, BRICKS, CONCRETE BLOCKS, ETC.
2. CONTRACTOR SHALL SUBMIT DETAILED REINFORCING DRAWINGS INCLUDING BAR AND BENDING SCHEDULES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DELIVERY OF ANY REINFORCING STEEL.

3. REINFORCING BARS SHALL CONFORM TO ASTM A775, GRADE 60, EPOXY COATED.
4. SPLICE REINFORCEMENT AS INDICATED.

CLASS "B" SPLICES FOR EPOXY COATED REINFORCEMENT:

BAR SIZE	5000 PSI
#4	2'-0"
#5	2'-6"
#6	3'-0"
#7	3'-5"
#8	4'-4"

5. SPLICES SHALL BE LOCATED SUCH THAT NO MORE THAN 50 PERCENT OF THE REINFORCEMENT IS SPLICED AT ANY ONE LOCATION, UNLESS SHOWN OTHERWISE.
6. ALL HOOKS SHALL BE STANDARD ACI 90 OR 180 DEGREE END HOOKS, UNLESS SHOWN OTHERWISE.
7. AT DRAIN AND/OR MANHOLE LOCATIONS FLARE BARS TO CLEAR DRAIN. ADD FOUR #6 BARS 4 FT LONG DIAGONALLY AT DRAIN CORNERS NEAR MIDPOINT OF SLAB.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	02280950 WIN 022809.50
PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD PORTLAND CUMBERLAND COUNTY	CONCRETE SLAB DETAILS
SHEET NUMBER	8
OF 33	

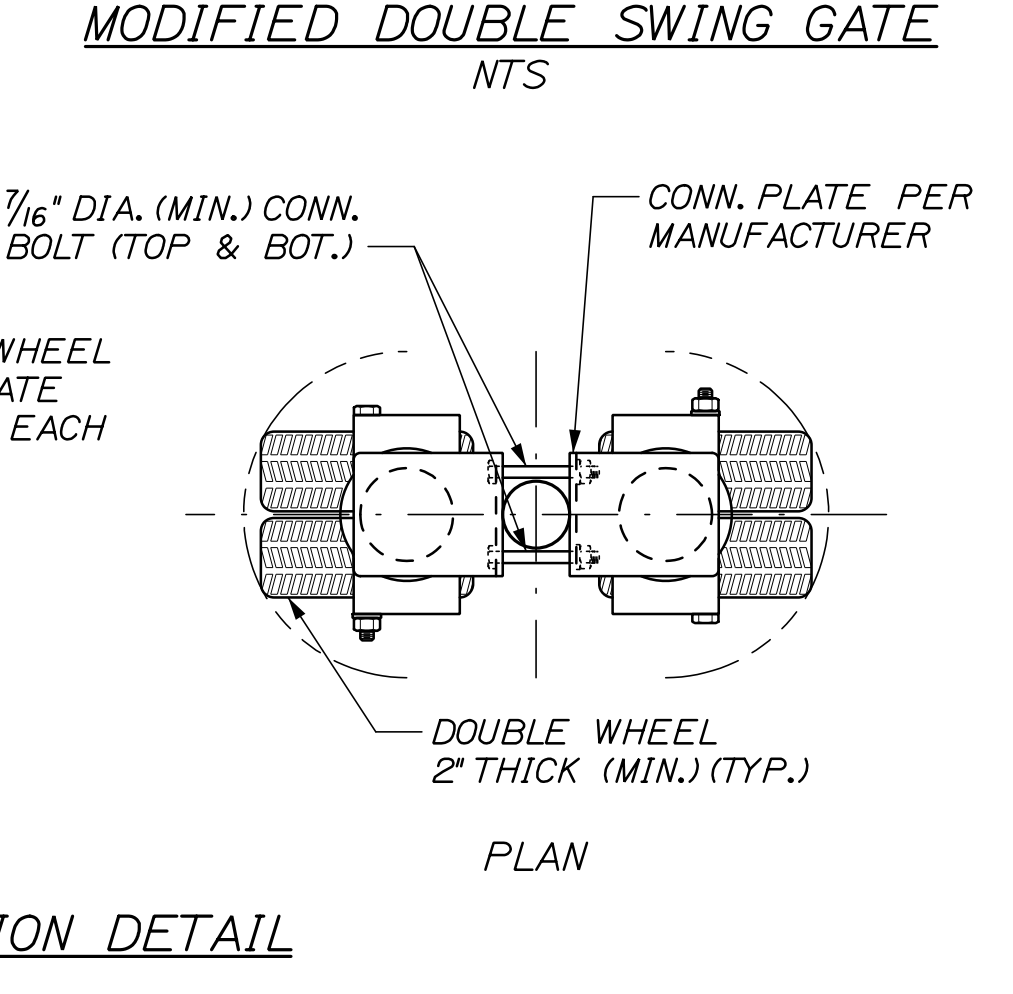
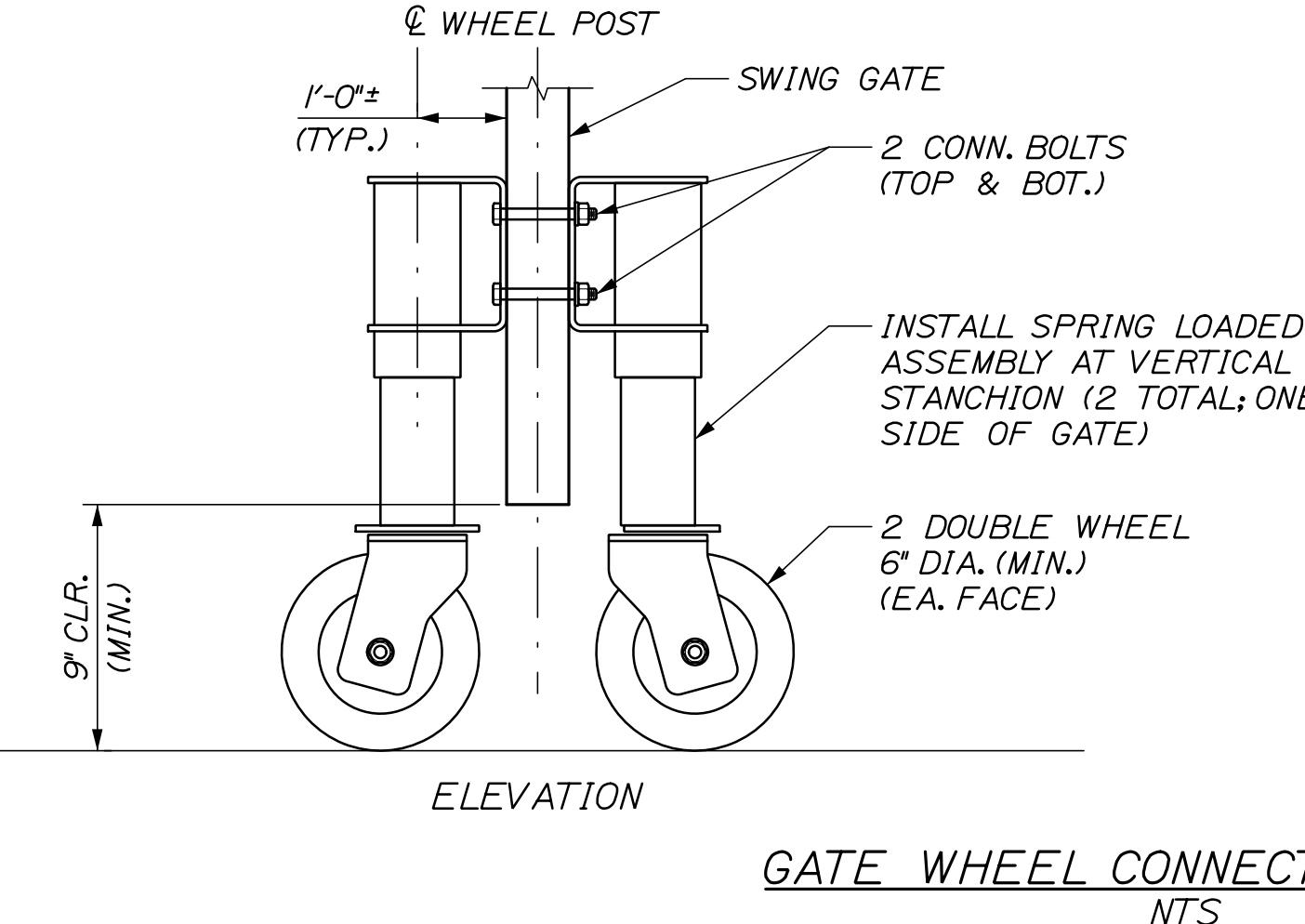
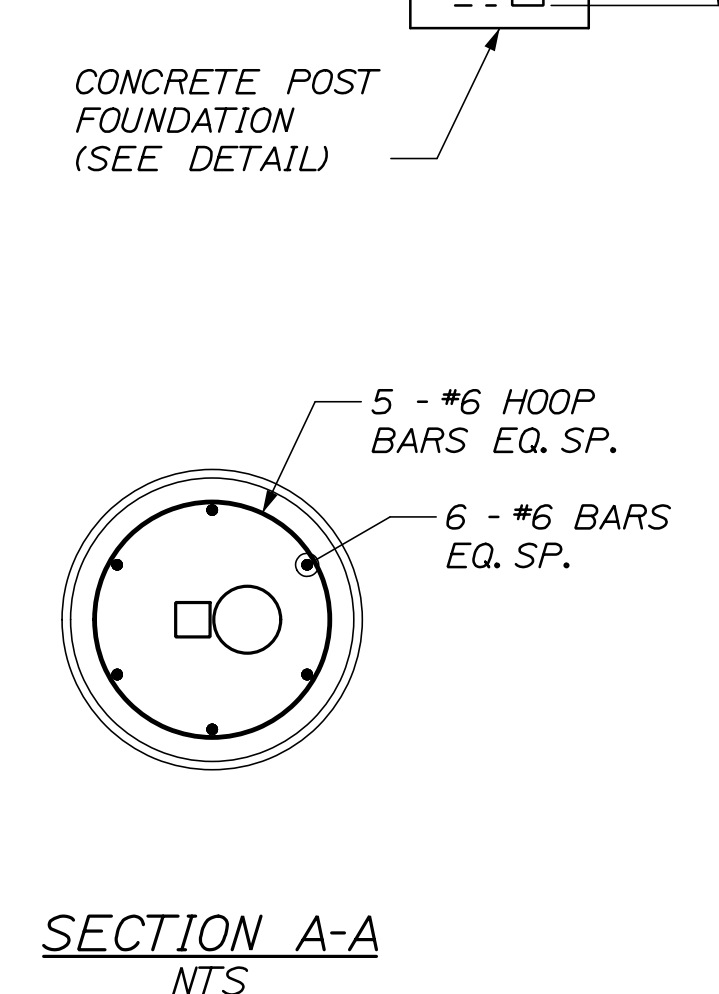
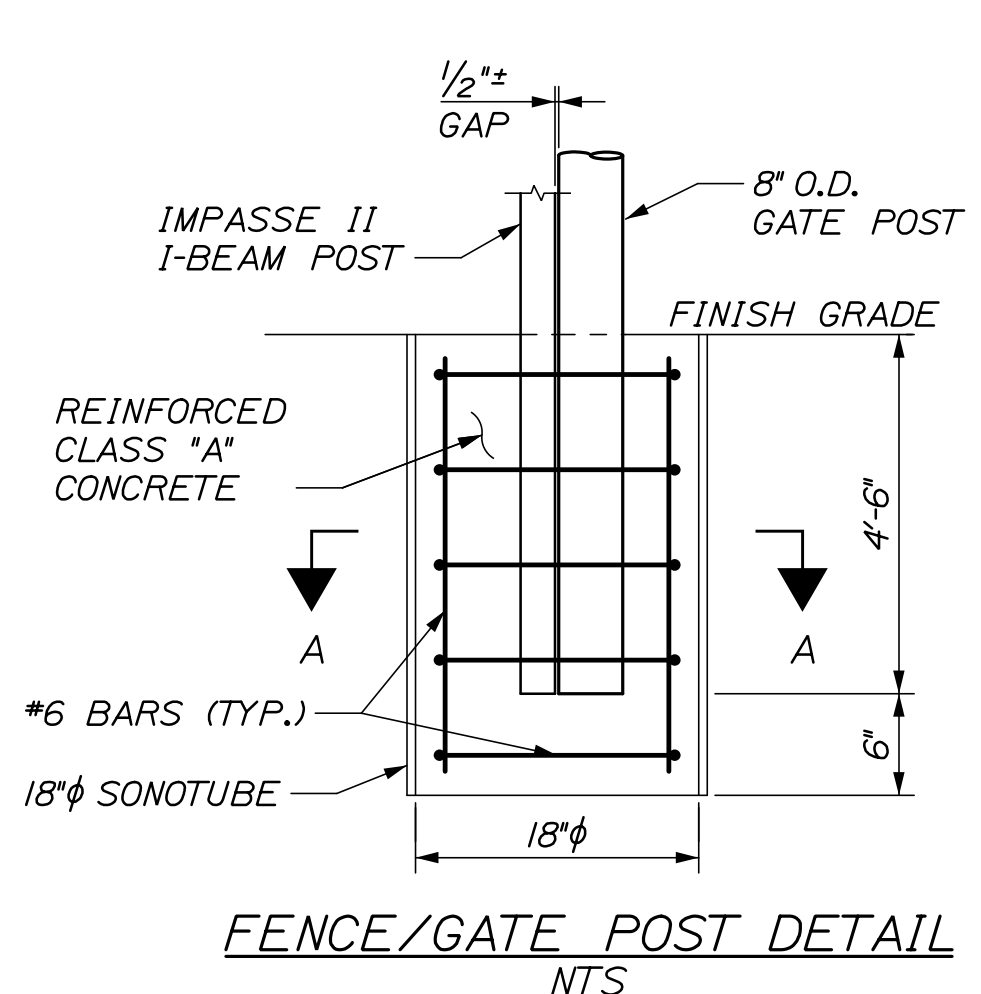
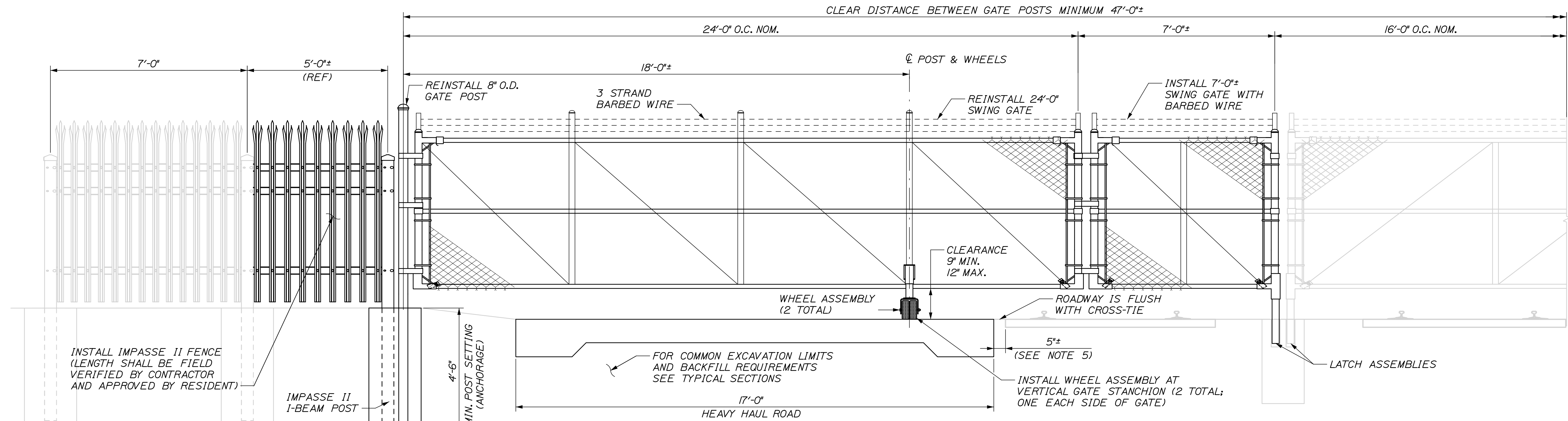
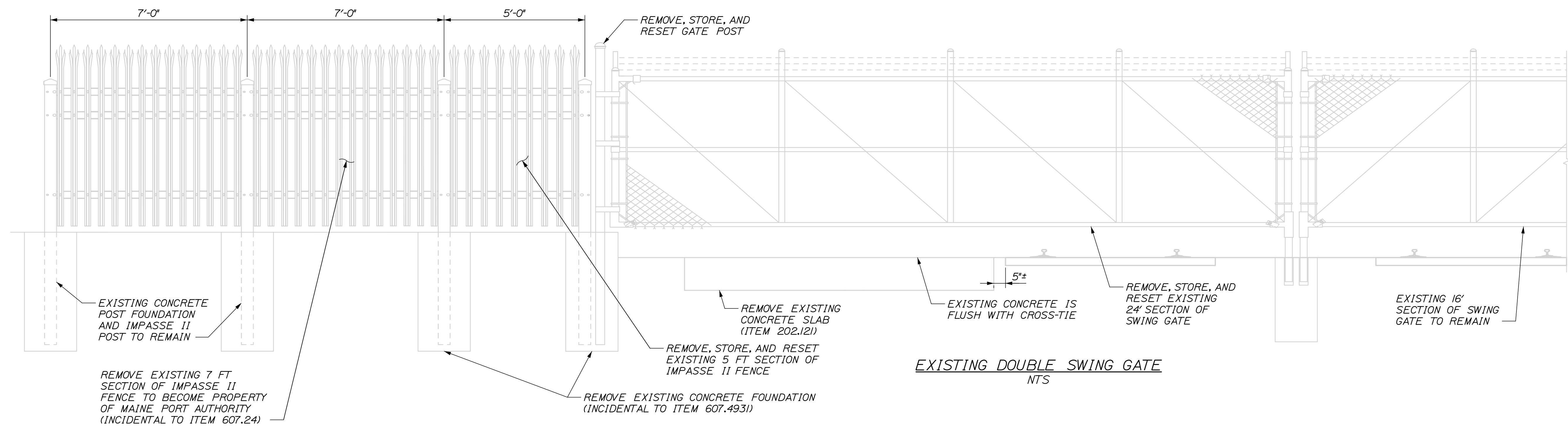


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- NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY FENCE AND SWING GATE DIMENSIONS.
 2. CONTRACTOR SHALL MODIFY SWING GATE SATISFYING REQUIREMENTS FROM PLANS AND SPECIFICATIONS.
 3. FOR WHEEL AND GATE INFORMATION SEE SPECIAL PROVISIONS.
 4. ALL POSTS ARE NOMINAL PIPE SIZE, SCHEDULE 40, GALVANIZED STEEL.
 5. CONTRACTOR SHALL PROVIDE A TEMPORARY SUPPORT ALONG EDGE OF SLAB TO PREVENT UNDERMINING OF RAILROAD TIES.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		02280950		WIN		022809.50	
PORTLAND INTERNATIONAL MARINE TERMINAL		HEAVY HAUL ROAD		PORTLAND CUMBERLAND COUNTY		FENCING DETAILS		SHEET NUMBER	
DATE		BY		PROJ. MANAGER		DESIGN-DETAILED		CHECKED-REVIEWED	
03/23		ERB		Aurie Gorreau, II		LTP		CRM	
DATE		BY		DESIGN-DETAILED		CHECKED-REVIEWED		SIGNATURE	
03/23		CRM		-		-		-	
DATE		BY		REVISIONS 1		REVISIONS 2		P.E. NUMBER	
-		-		-		-		-	
DATE		BY		REVISIONS 3		REVISIONS 4		DATE	
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DATE		BY		FIELD CHANGES		-		-	
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OF 33

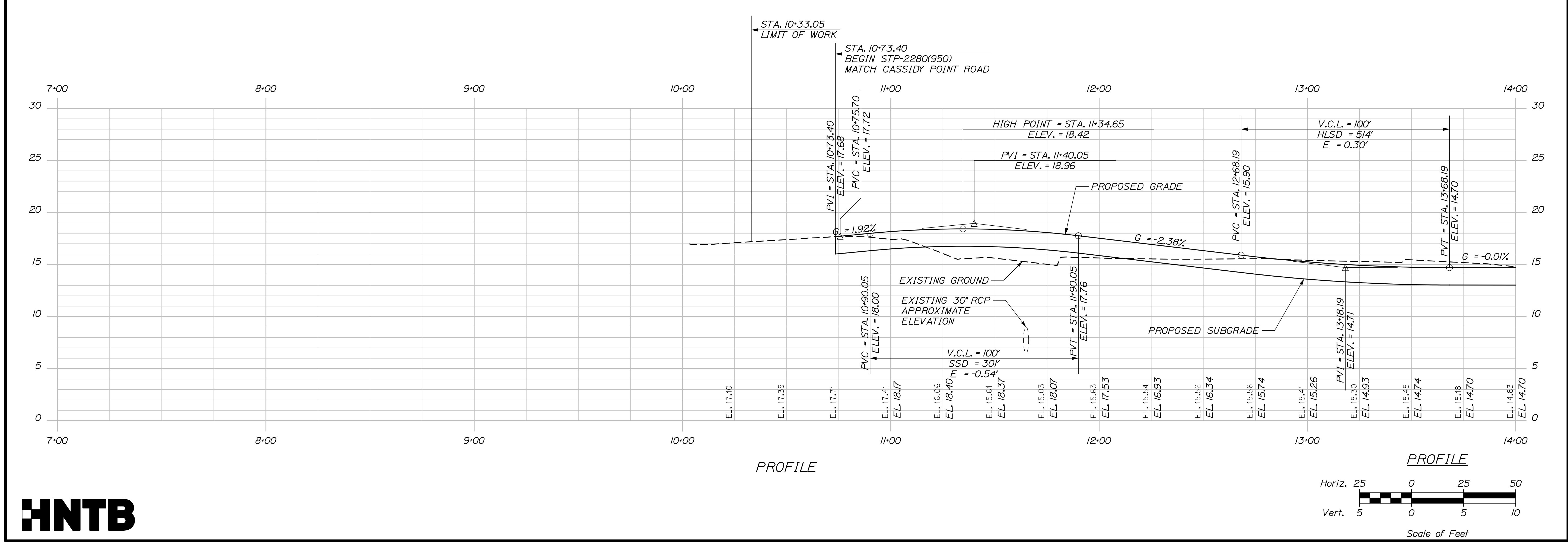
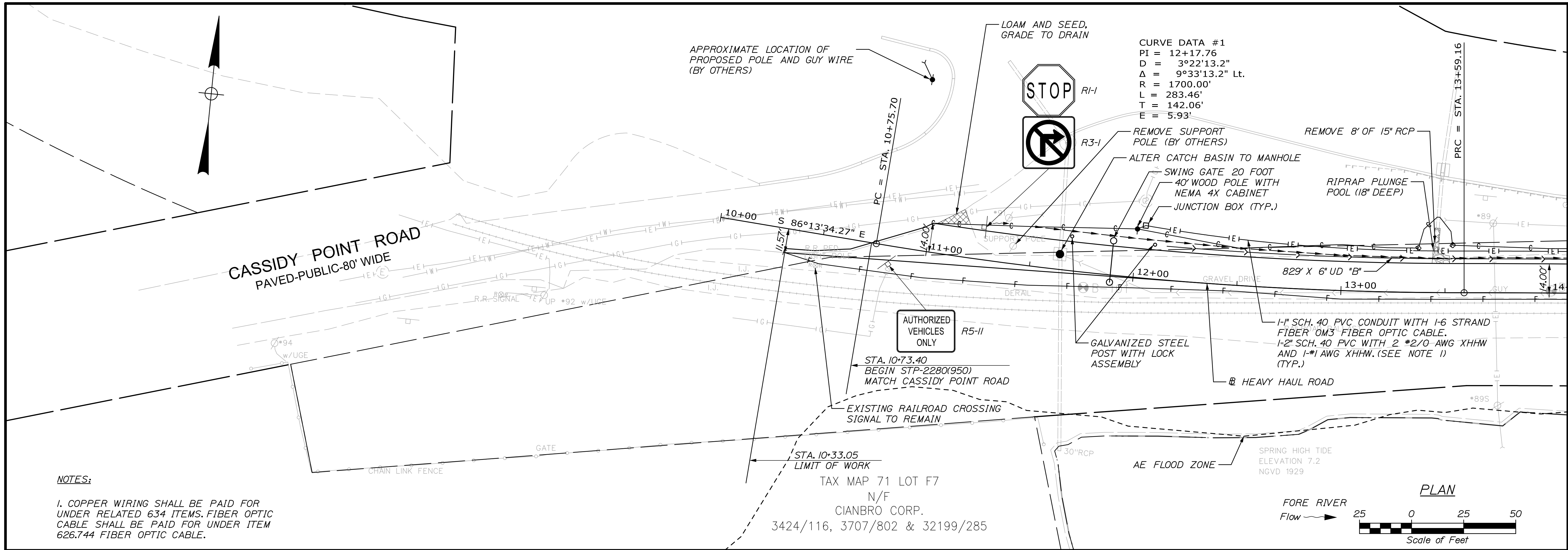


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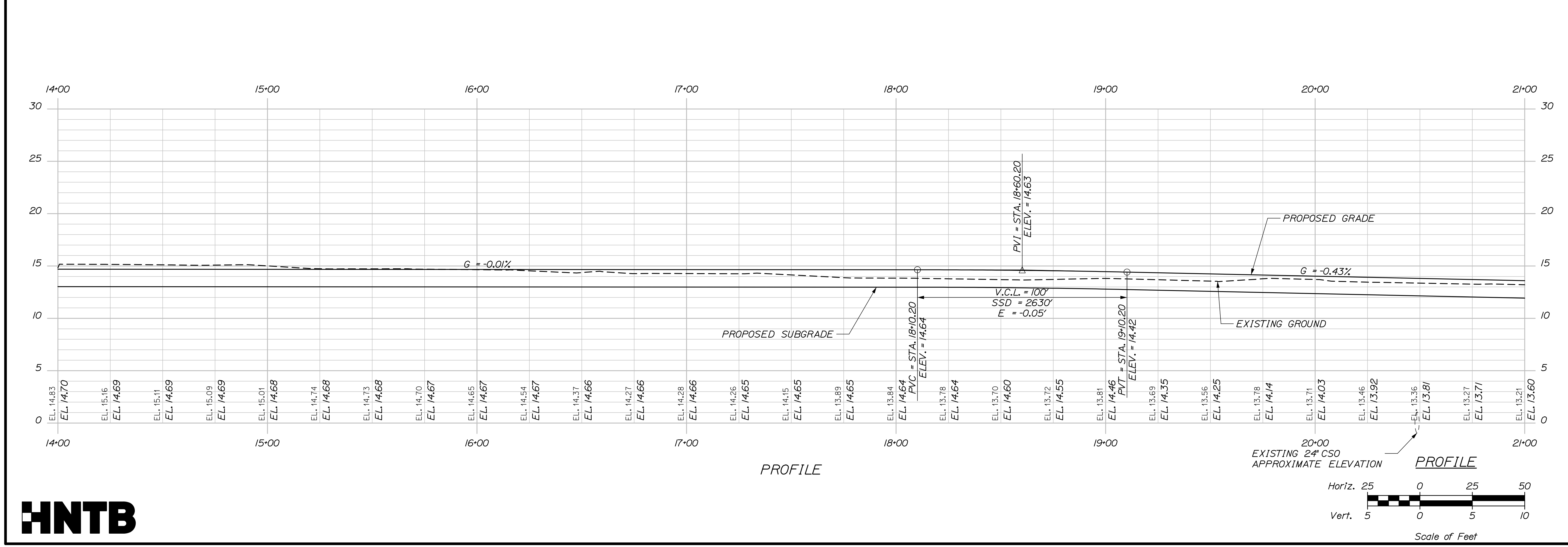
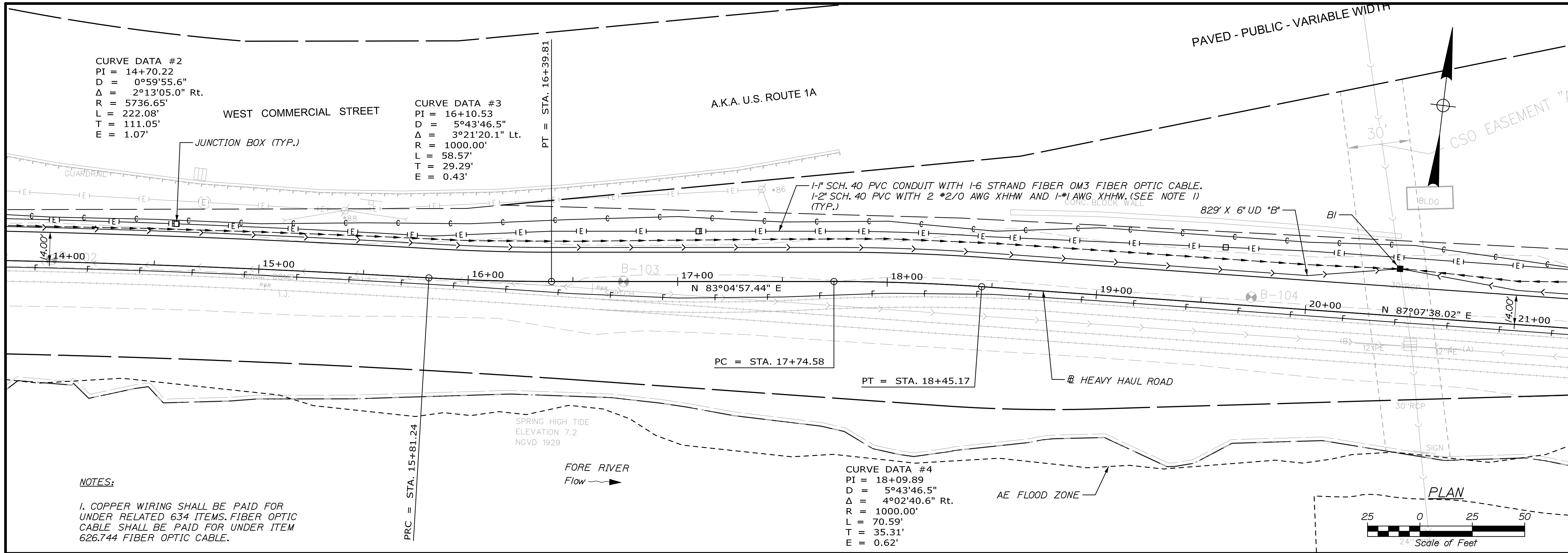
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03/23	EPR	-	RWH	-	-	-	-	-	-
03/23	RWH	-	-	-	-	-	-	-	-
SIGNATURE		SIGNATURE		P.E. NUMBER		DATE		DATE	
PORTLAND INTERNATIONAL MARINE TERMINAL					HEAVY HAUL ROAD				
PORTLAND					CUMBERLAND COUNTY				
SHEET NUMBER					10				
OF 33									

Date: 3/3/2023

Username:

Division:

Filename: 011_PlanProfile2.dgn



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 02280950
 WIN
 022809.50

DATE	BY	DESCRIPTION
03/23	EPR	DESIGN-DETAILED
03/23	RWH	CHECKED-REVIEWED
		DESIGN-DETAILED
		DESIGN-DETAILED
		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4
		FIELD CHANGES

PORTLAND INTERNATIONAL MARINE TERMINAL
 HEAVY HAUL ROAD
 PORTLAND CUMBERLAND COUNTY
 PLANS AND PROFILES

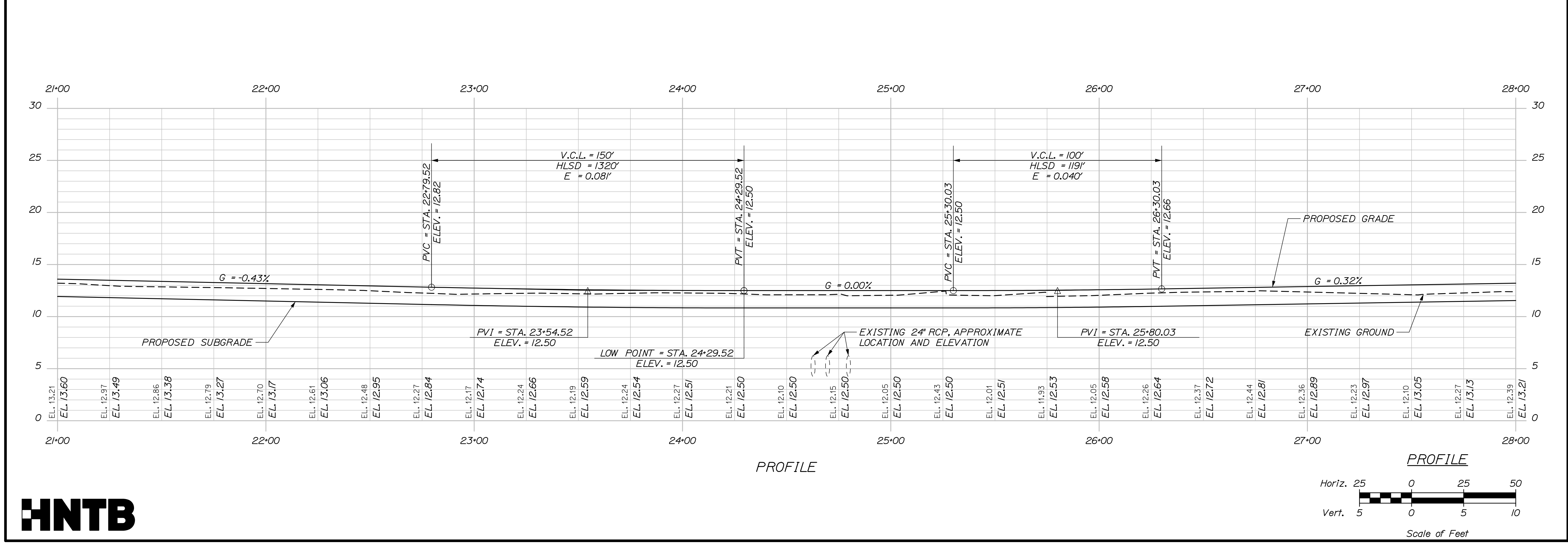
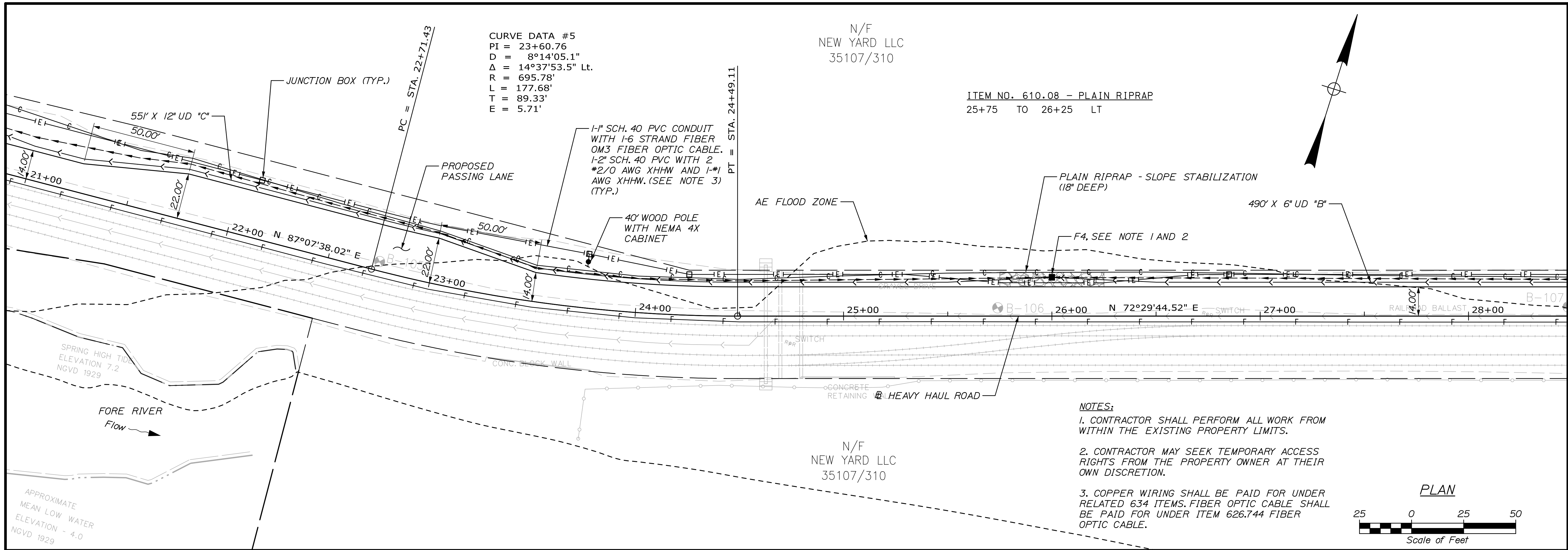
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 OF 33

Date: 3/3/2023

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Division:

Filename: 012_PlanProfile3.dgn



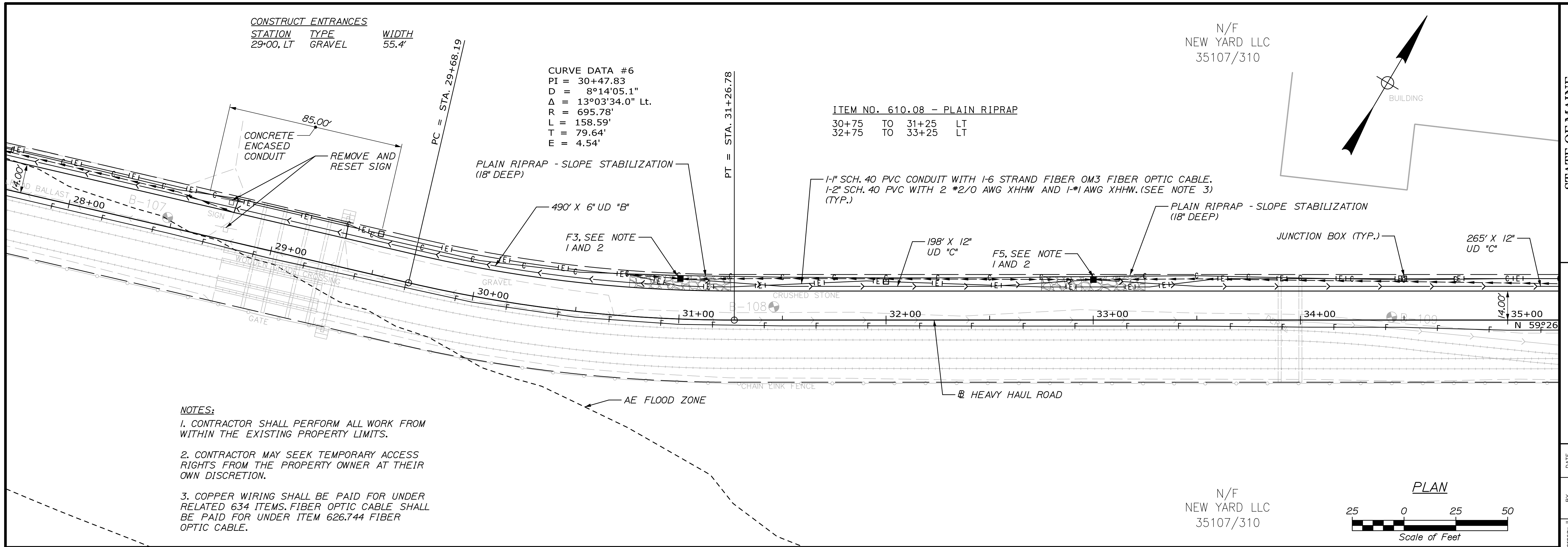
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02280950		WIN 022809.50	
PROJ. MANAGER	Arnie Gorreou, II	BY	EPR	DATE	03/23
DESIGN-DETAILED	EDD	BY	RWH	DATE	03/23
CHECKED-REVIEWED	RWH	BY		DATE	
DESIGN-DETAILED		BY		DATE	
DESIGN-DETAILED		BY		DATE	
REVISIONS 1		BY		DATE	
REVISIONS 2		BY		DATE	
REVISIONS 3		BY		DATE	
REVISIONS 4		BY		DATE	
FIELD CHANGES		BY		DATE	
PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD PORTLAND CUMBERLAND COUNTY					
PLANS AND PROFILES					
SHEET NUMBER					
12					
OF 33					

STATION	TYPE	WIDTH
29+00, LT	GRAVEL	55.4'

CURVE DATA #6
 PI = 30+47.83
 D = 8°14'05.1"
 Δ = 13°03'34.0" Lt.
 R = 695.78'
 L = 158.59'
 T = 79.64'
 E = 4.54'

ITEM NO. 610.08 - PLAIN RIPRAP
 30+75 TO 31+25 LT
 32+75 TO 33+25 LT

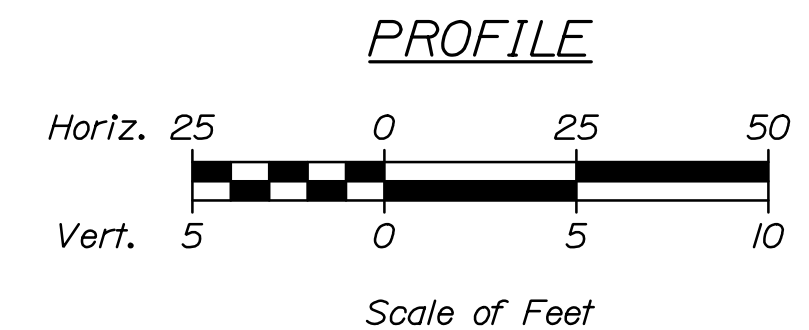
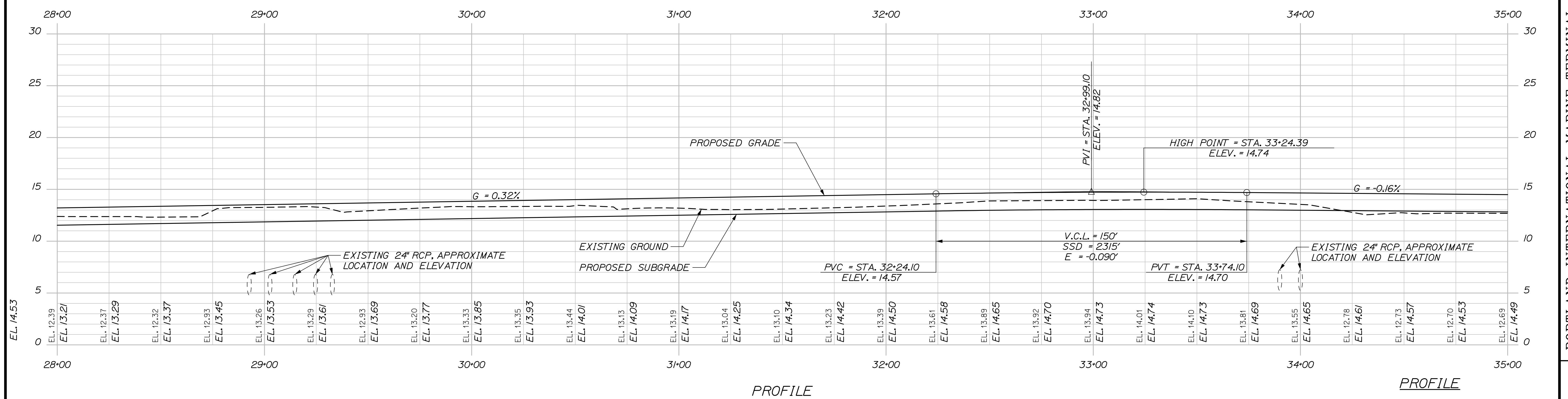
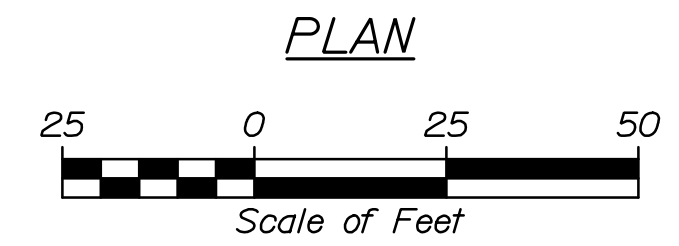
N/F
 NEW YARD LLC
 35107/310



NOTES:

- CONTRACTOR SHALL PERFORM ALL WORK FROM WITHIN THE EXISTING PROPERTY LIMITS.
- CONTRACTOR MAY SEEK TEMPORARY ACCESS RIGHTS FROM THE PROPERTY OWNER AT THEIR OWN DISCRETION.
- COPPER WIRING SHALL BE PAID FOR UNDER RELATED 634 ITEMS. FIBER OPTIC CABLE SHALL BE PAID FOR UNDER ITEM 626.744 FIBER OPTIC CABLE.

N/F
 NEW YARD LLC
 35107/310



Date: 3/3/2023

Username:

Division:

Filename: 013_PlanProfile4.dgn

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 02280950
 WIN
 022809.50

DATE	BY	REVISION
03/23	EPR	DESIGN-DETAILED
03/23	RWH	CHECKED-REVIEWED
		DESIGN-DETAILED
		DESIGN-DETAILED
		REVISIONS 1
		REVISIONS 2
		REVISIONS 3
		REVISIONS 4
		FIELD CHANGES

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

PORTLAND INTERNATIONAL MARINE TERMINAL
 HEAVY HAUL ROAD
 PORTLAND CUMBERLAND COUNTY
 PLANS AND PROFILES

SHEET NUMBER
13
 OF 33

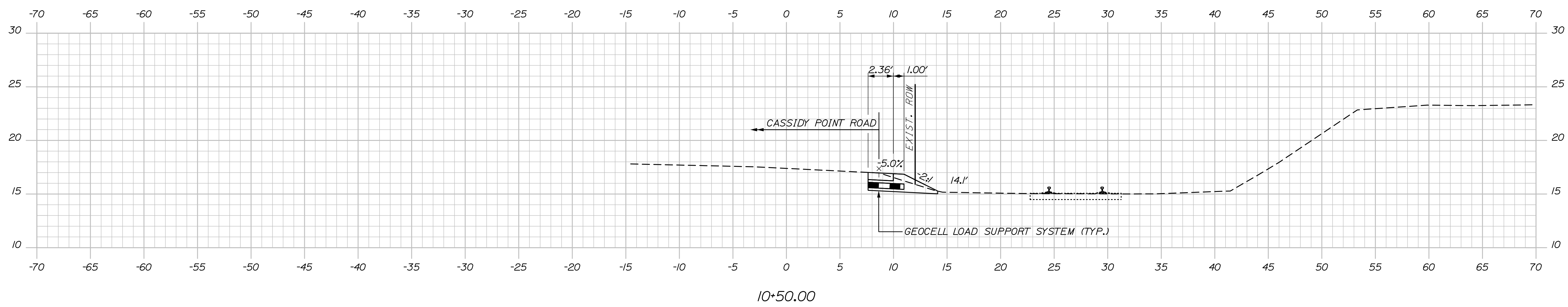
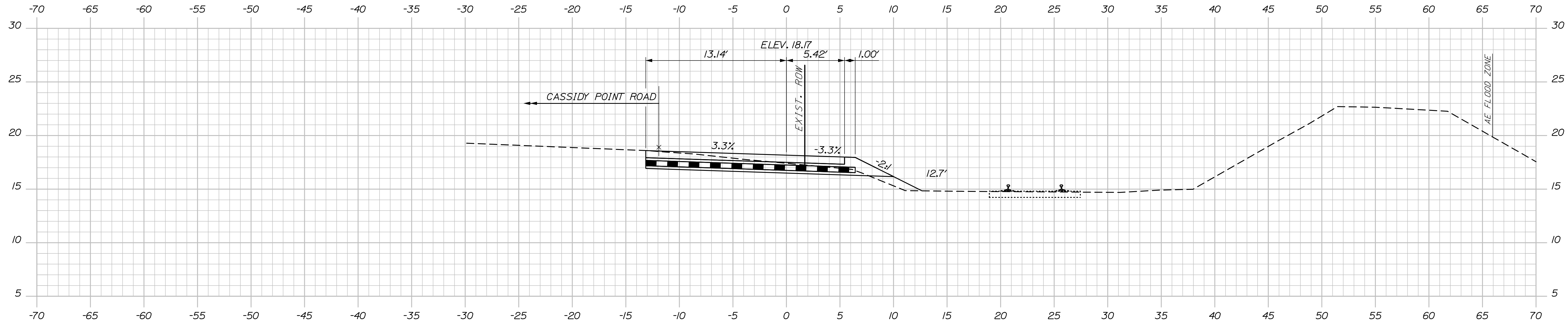


Date: 3/3/2023

Username:

Division:

Filename: Xsect.dgn



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 02280950
 WIN
 022809.50

PROJ. MANAGER	DATE	BY	DATE
Aurie Gorneau, II	03/23	RWH	03/23
DESIGN-DETAILED	EDD		
CHECKED-REVIEWED	RWH		
DESIGN-DETAILED	-		
DESIGN-DETAILED	-		
REVISIONS 1	-		
REVISIONS 2	-		
REVISIONS 3	-		
REVISIONS 4	-		
FIELD CHANGES	-		

SIGNATURE	P.E. NUMBER	DATE

PORTLAND INTERNATIONAL MARINE TERMINAL
 HEAVY HAUL ROAD
 PORTLAND CUMBERLAND COUNTY
 CROSS SECTIONS

SHEET NUMBER
 15
 OF 33



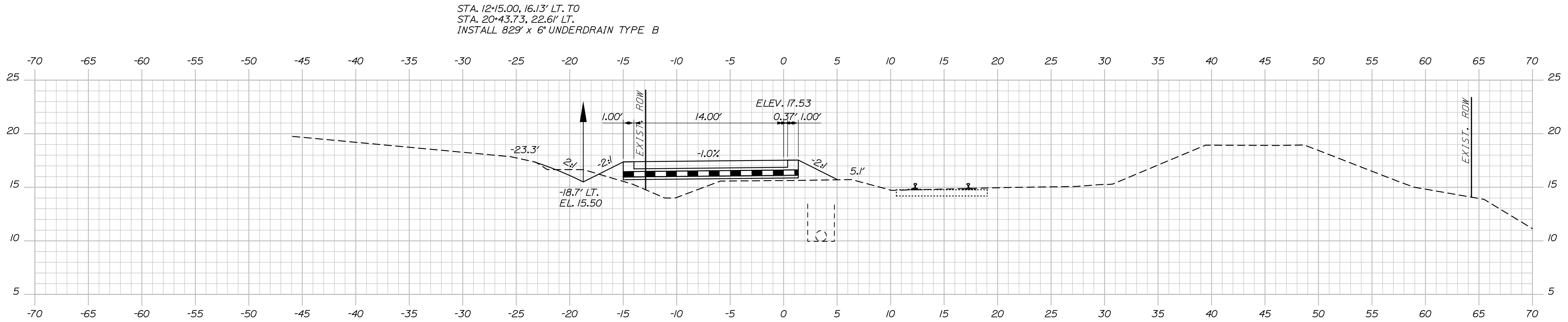
Sta. 10+50.00 to Sta. 11+00.00

Date: 3/3/2023

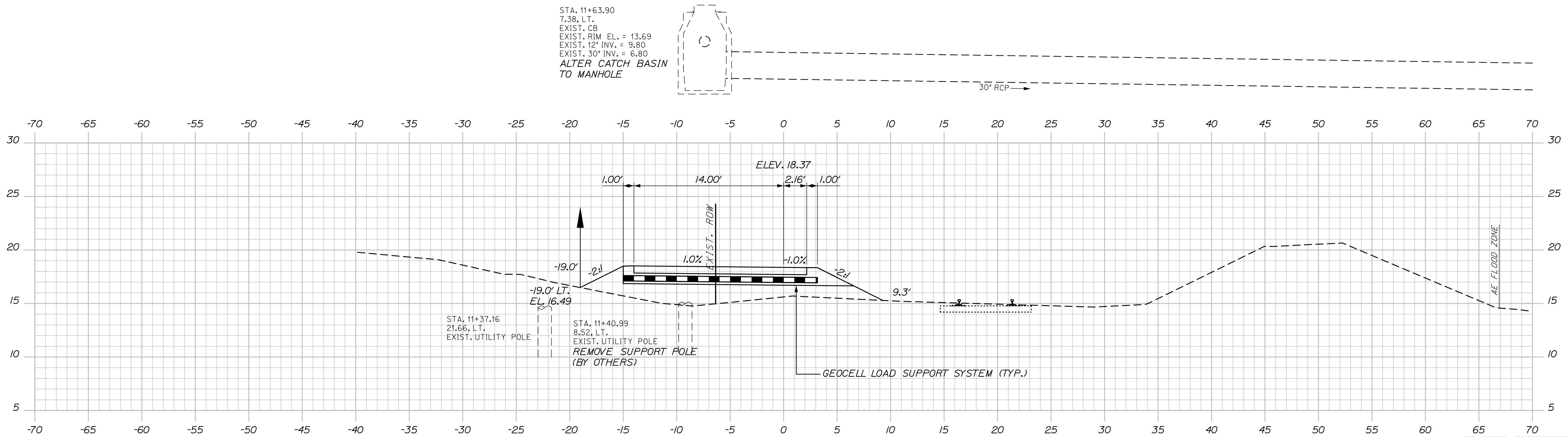
Username:

Division:

Filename: Xsect.dgn



12+00.00



11+50.00

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 02280950
 WIN
 022809.50

PROJ. MANAGER	Aurèle Gorneau, II
DESIGN-DETAILED	EDD
CHECKED-REVIEWED	RWH
DESIGN-DETAILED	-
REVISIONS 1	-
REVISIONS 2	-
REVISIONS 3	-
REVISIONS 4	-
FIELD CHANGES	-

DATE	03/23
BY	RWH
DATE	03/23
SIGNATURE	
P.E. NUMBER	
DATE	

PORTLAND INTERNATIONAL MARINE TERMINAL
 HEAVY HAUL ROAD
 PORTLAND CUMBERLAND COUNTY
 CROSS SECTIONS

SHEET NUMBER

16

OF 33



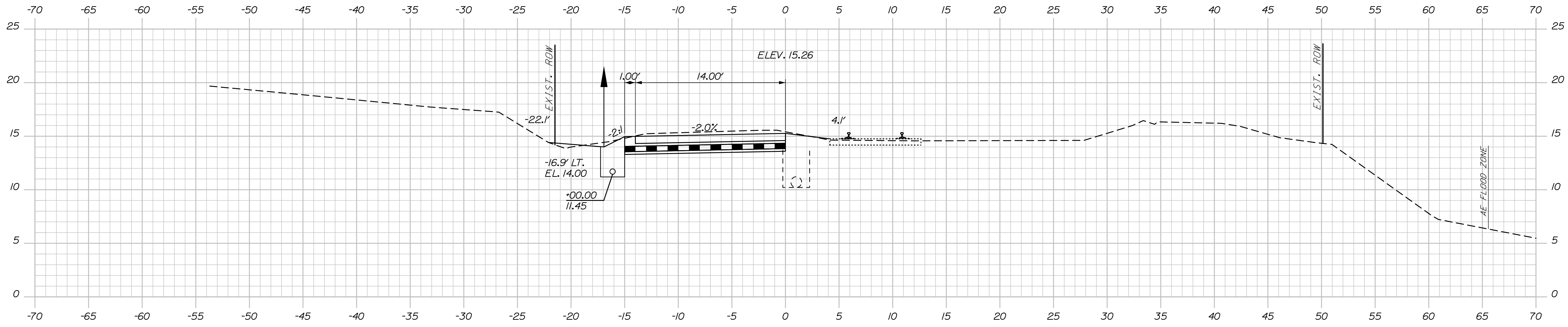
Sta. 11+50.00 to Sta. 12+00.00

Date: 3/3/2023

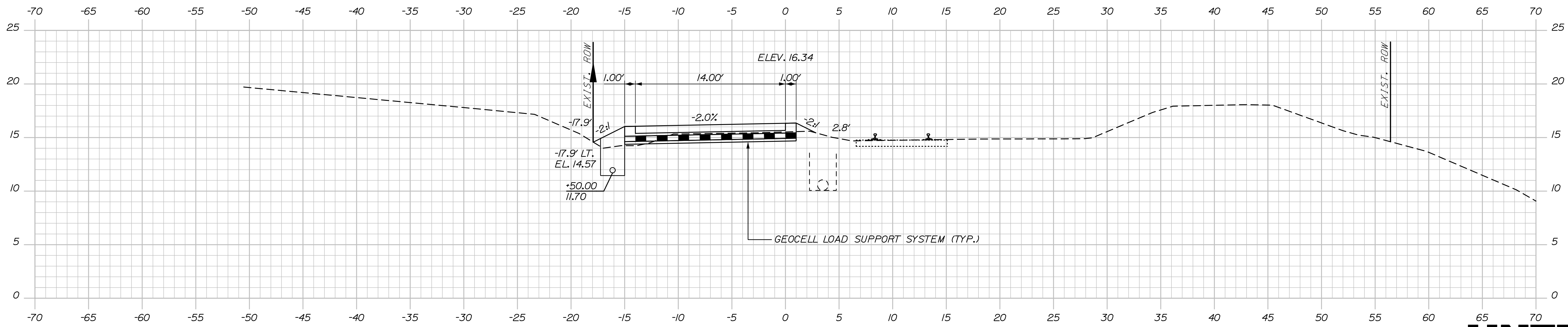
Username:

Division:

Filename: Xsect.dgn



13+00.00



12+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

02280950

WIN
022809.50

PROJ. MANAGER	Archie Gorreou, II
DESIGN-DETAILED	EDD
CHECKED-REVIEWED	RWH
DESIGN-DETAILED	-
REVISIONS 1	-
REVISIONS 2	-
REVISIONS 3	-
REVISIONS 4	-
FIELD CHANGES	-

DATE	03/23	SIGNATURE	
BY	RWH	P.E. NUMBER	
		DATE	

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY

CROSS SECTIONS

SHEET NUMBER

17

OF 33



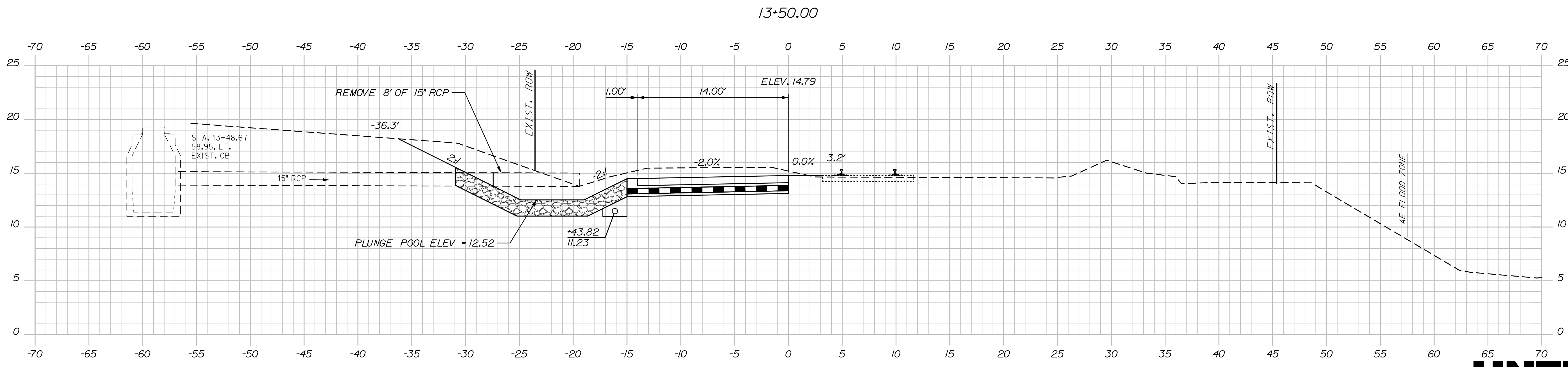
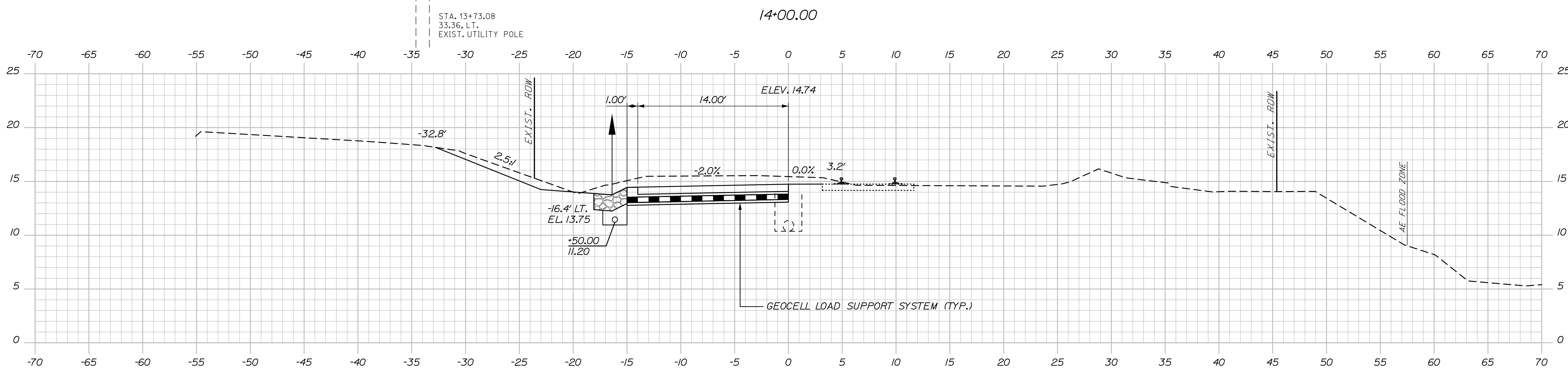
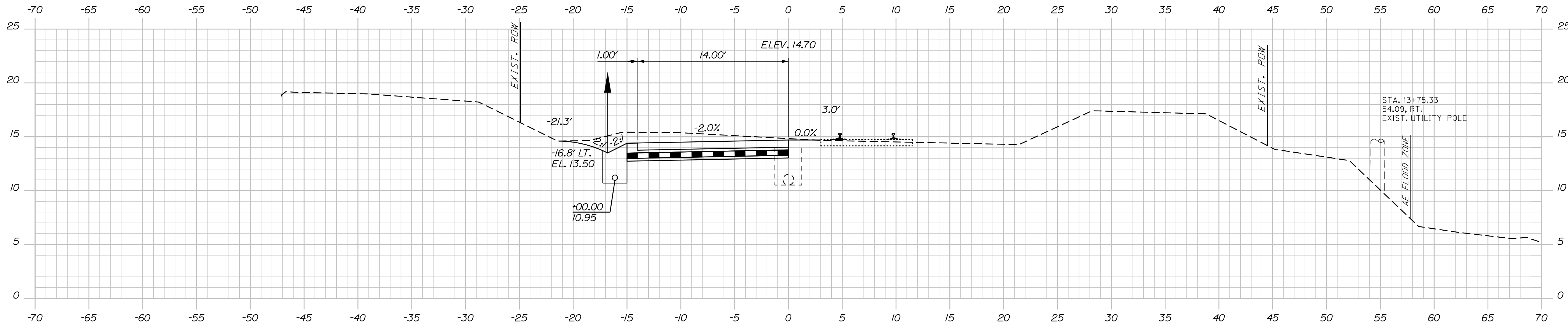
Sta. 12+50.00 to Sta. 13+00.00

Date: 3/3/2023

Username:

Division:

Filename: Xsect.dgn



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02280950		WIN 022809.50	
PROJ. MANAGER	Aurie	GORREAU, II	DATE	03/23	03/23
DESIGN-DETAILED	EDD	EDD	CHECKED-REVIEWED	RWH	RWH
CHECKED-REVIEWED	RWH	RWH	DESIGN-DETAILED	-	-
DESIGN-DETAILED	-	-	REVISIONS 1	-	-
REVISIONS 1	-	-	REVISIONS 2	-	-
REVISIONS 2	-	-	REVISIONS 3	-	-
REVISIONS 3	-	-	REVISIONS 4	-	-
REVISIONS 4	-	-	FIELD CHANGES	-	-
PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD PORTLAND CUMBERLAND COUNTY			CROSS SECTIONS		
SHEET NUMBER			18		
			OF 33		



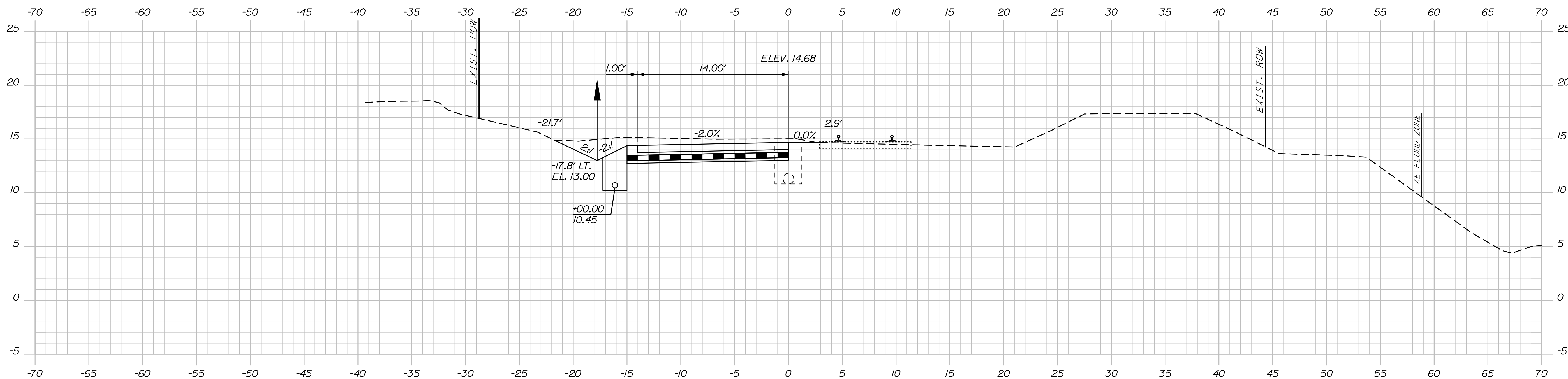
Sta. 13+43.82 to Sta. 14+00.00

Date: 3/3/2023

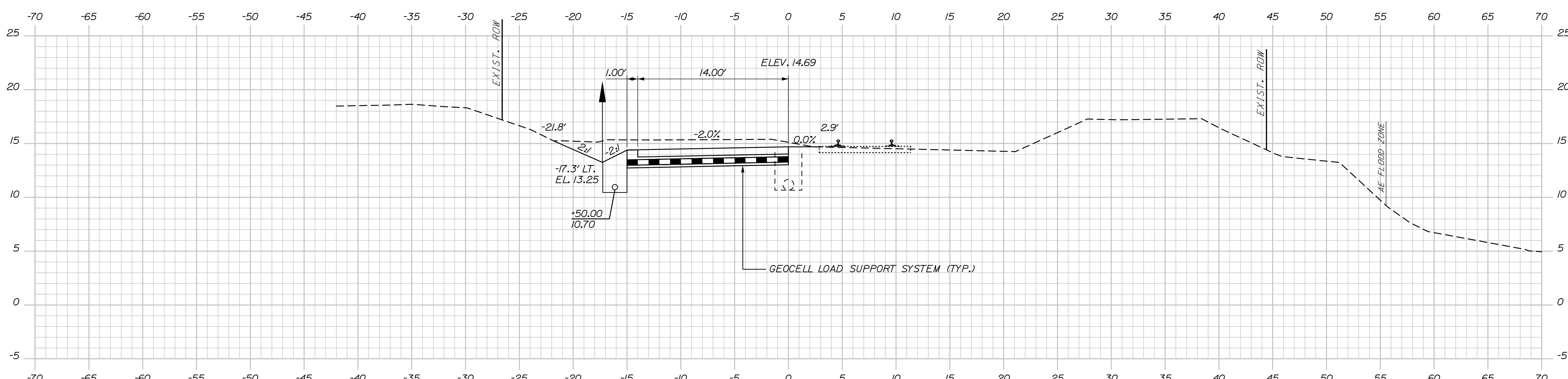
Username:

Division:

Filename: Xsect.dgn



15+00.00



14+50.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02280950
WIN
022809.50

DATE: 03/23
BY: EFR
PROJ. MANAGER: Aurelie Gorreou, II
DESIGN: EDD
CHECKED: RWI
DESIGNED: RWI
DESIGNED: RWI
DESIGNED: RWI
REVISIONS: 1
REVISIONS: 2
REVISIONS: 3
REVISIONS: 4
FIELD CHANGES

DATE: 03/23
BY: RWI
SIGNATURE: _____
P.E. NUMBER: _____
DATE: _____

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
19
OF 33

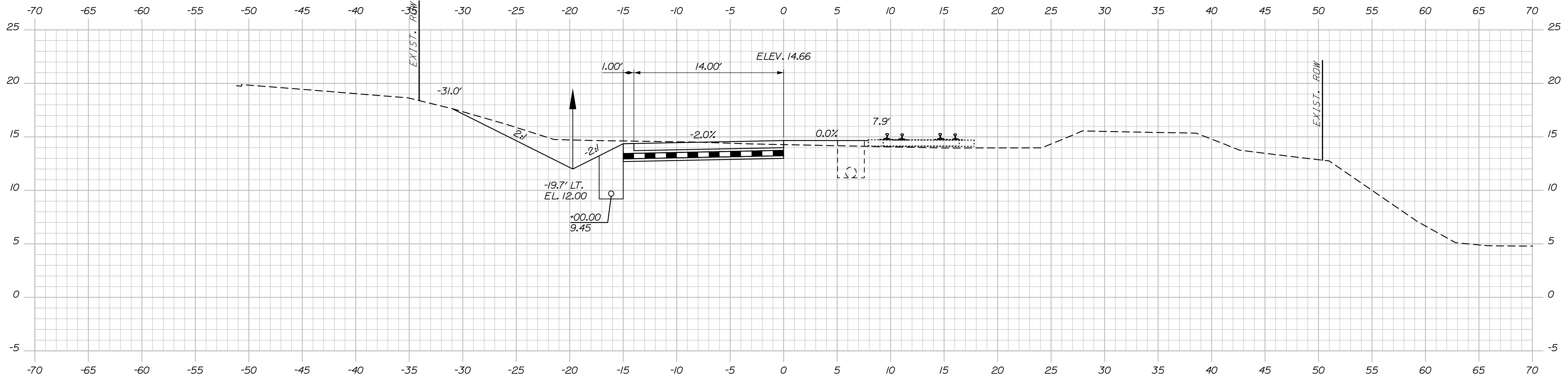
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Date: 3/3/2023

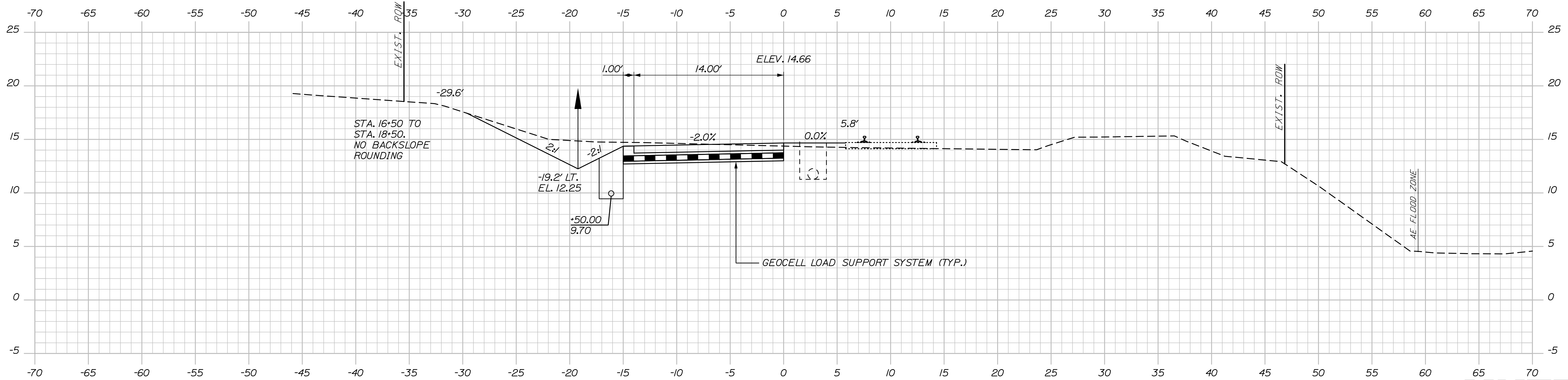
Username:

Division:

Filename: Xsect.dgn



17+00.00



16+50.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02280950
WIN
022809.50

DESIGN-DETAILED	DATE	SIGNATURE
CHECKED-REVIEWED	03/23	
DESIGN-DETAILED	03/23	
DESIGN-DETAILED	-	
REVISIONS 1	-	P.E. NUMBER
REVISIONS 2	-	DATE
REVISIONS 3	-	
REVISIONS 4	-	
FIELD CHANGES	-	

PROJ. MANAGER	DATE
Aurie Gorreou, II	03/23
BY	
EPR	03/23
RWH	
EDD	
RWH	
DESIGN-DETAILED	
DESIGN-DETAILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER

21

OF 33

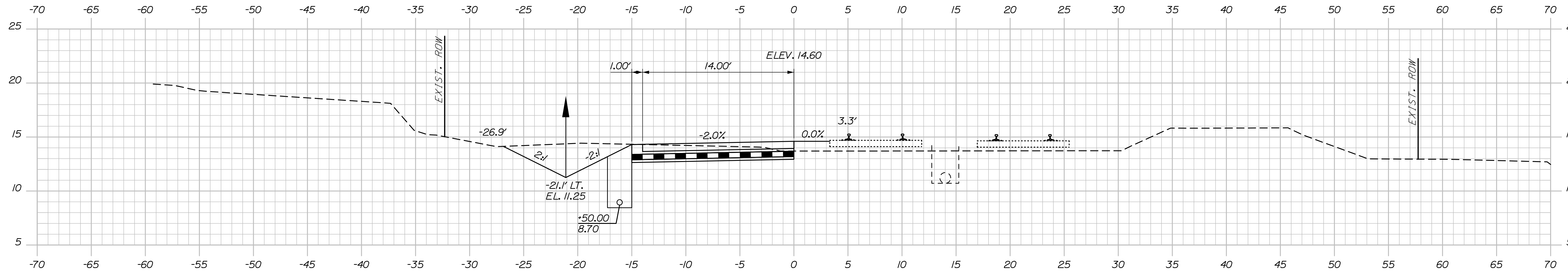
Sta. 16+50.00 to Sta. 17+00.00

Date: 3/3/2023

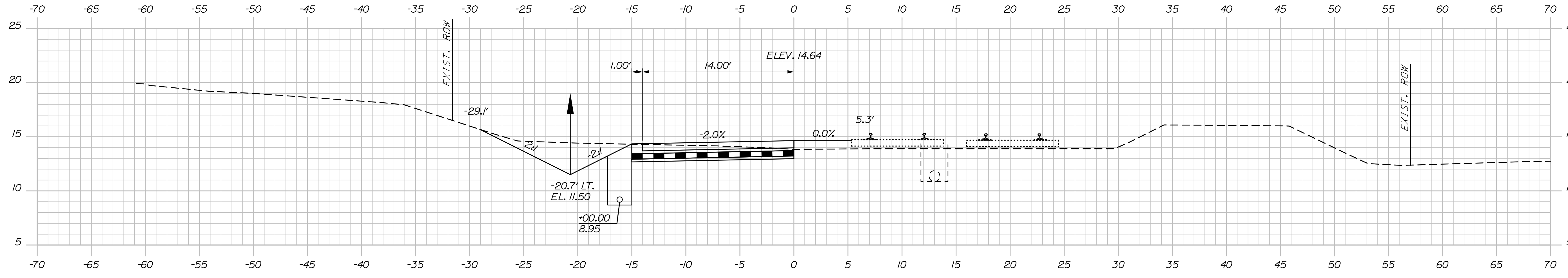
Username:

Division:

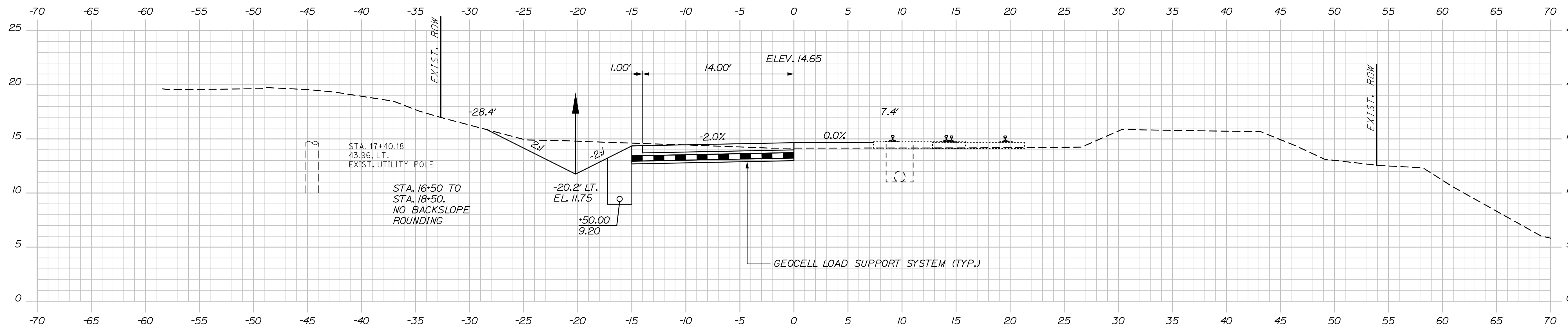
Filename: Xsect.dgn



18+50.00



18+00.00



17+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02280950
WIN
022809.50

PROJ. MANAGER	DATE	BY	DATE
Aurèle Gorneau, II	03/23	EPR	03/23
DESIGN-DETAILED	EDD	RWH	
CHECKED-REVIEWED	RWH		
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

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

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER

22

OF 33



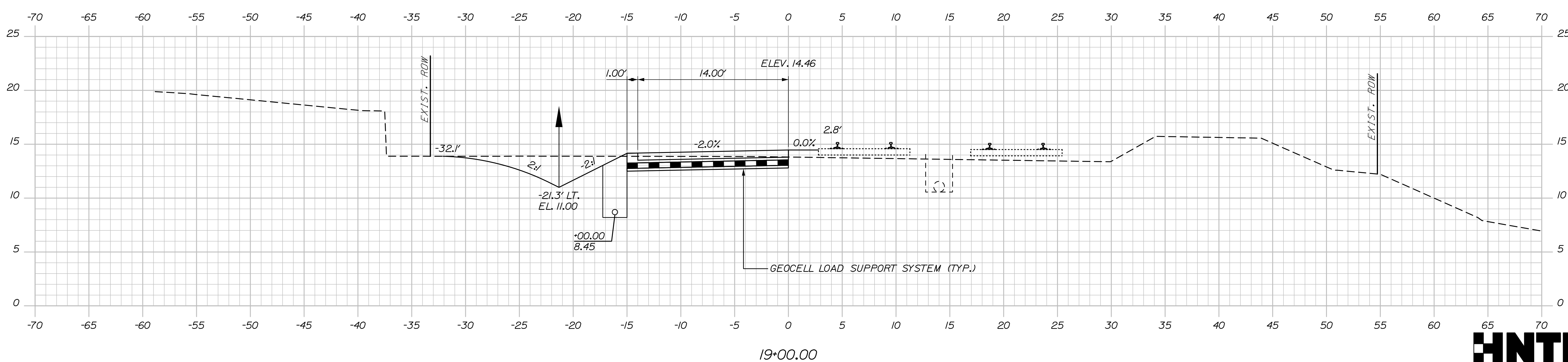
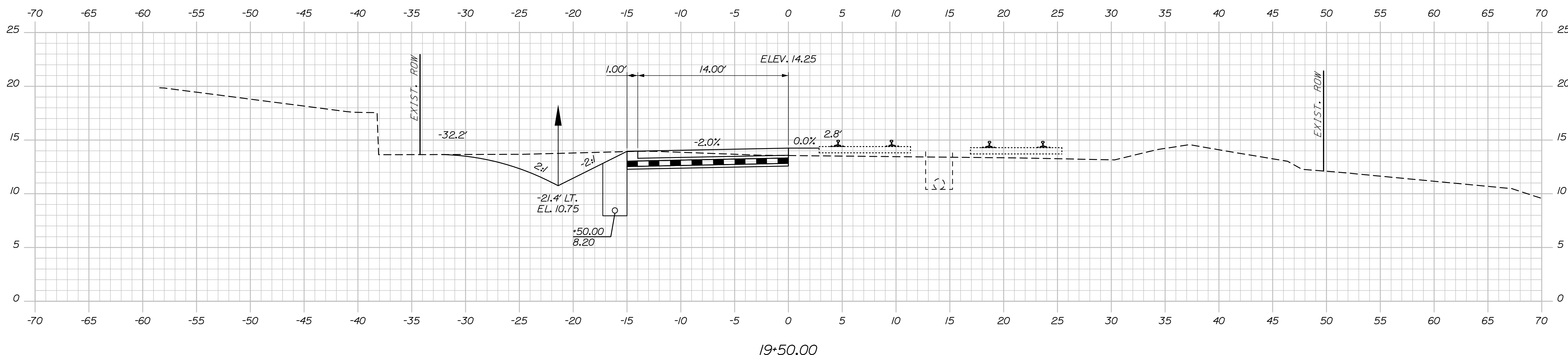
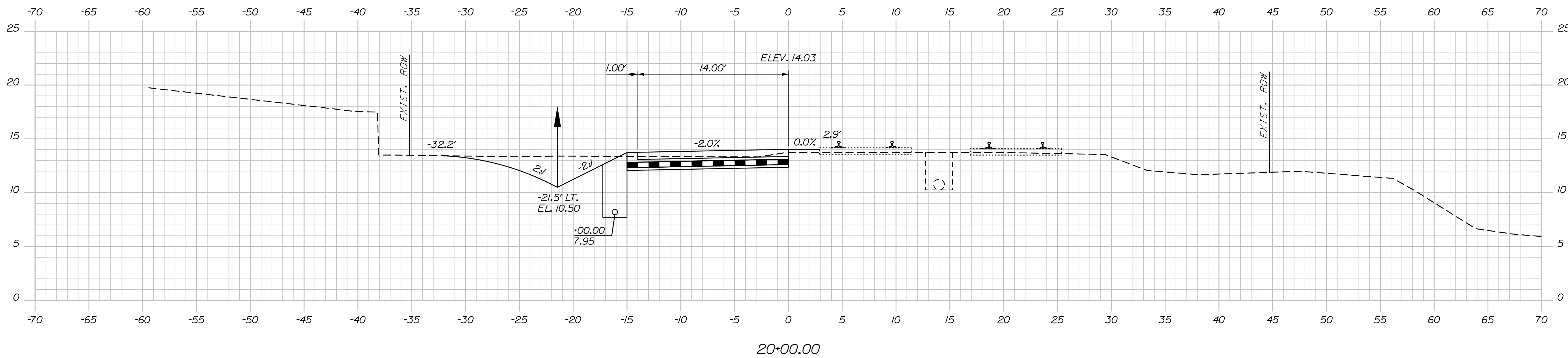
Sta. 17+50.00 to Sta. 18+50.00

Date: 3/3/2023

Username:

Division:

Filename: Xsect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02280950
WIN
022809.50

PROJ. MANAGER	DATE	BY	DATE
Aurèle Gorreou, II	03/23	RWH	03/23

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

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
23
OF 33



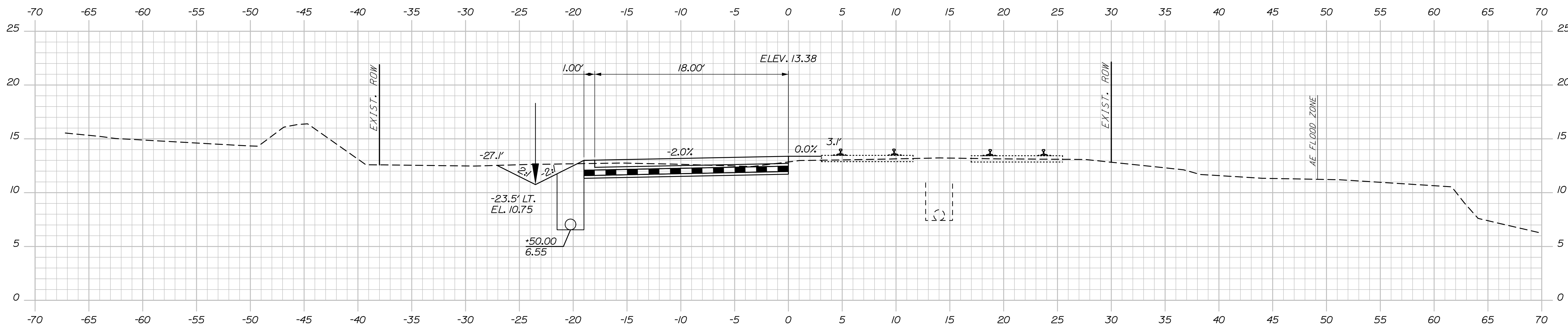
Sta. 19+00.00 to Sta. 20+00.00

Date: 3/3/2023

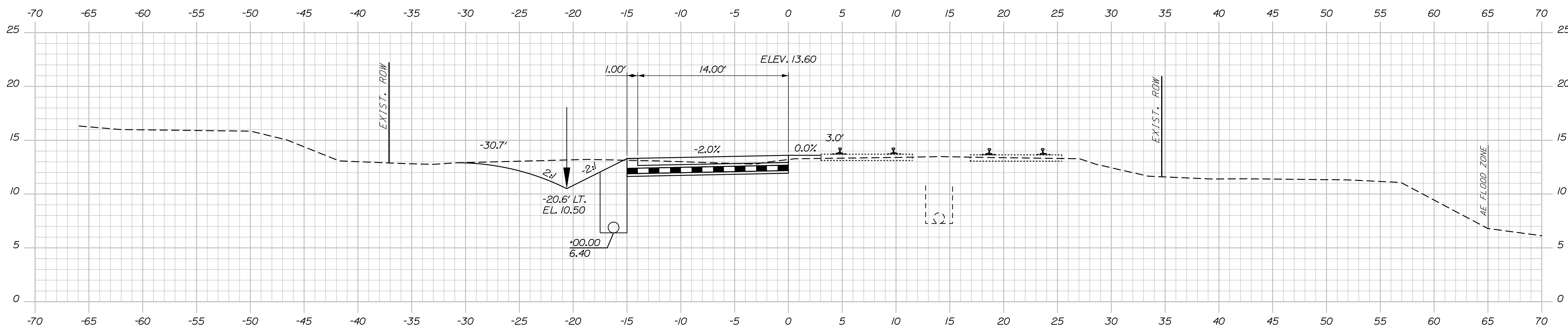
Username:

Division:

Filename: Xsect.dgn

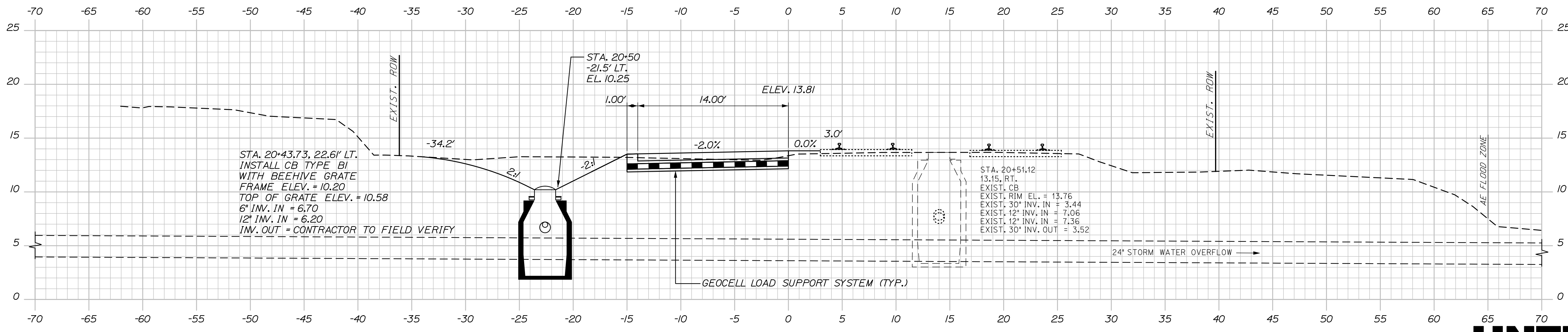


21+50.00



21+00.00

STA. 20+43.73, 22.6' LT. TO
 STA. 26+00.00, 18.54' LT.
 INSTALL 55' x 12' UNDERDRAIN TYPE C



20+50.00

STA. 20+43.73, 22.6' LT.
 INSTALL CB TYPE BI
 WITH BEEHIVE GRATE
 FRAME ELEV. = 10.20
 TOP OF GRATE ELEV. = 10.58
 6" INV. IN = 6.70
 12" INV. IN = 6.20
 INV. OUT = CONTRACTOR TO FIELD VERIFY

STA. 20+51.12
 13.15, RT.
 EXIST. CB
 EXIST. RIM EL. = 13.76
 EXIST. 30" INV. IN = 3.44
 EXIST. 12" INV. IN = 7.06
 EXIST. 12" INV. IN = 7.36
 EXIST. 30" INV. OUT = 3.52

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02280950	
		WIN 022809.50	
PROJ. MANAGER	Aurèle Gorneau, II	DATE	03/23
DESIGN-DETAILED	EDD	BY	RWH
CHECKED-REVIEWED	RWH	DATE	03/23
DESIGN-DETAILED	-	SIGNATURE	-
DESIGN-DETAILED	-	P.E. NUMBER	-
REVISIONS 1	-	DATE	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-
PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD PORTLAND CUMBERLAND COUNTY			
CROSS SECTIONS			
SHEET NUMBER			
24			
OF 33			



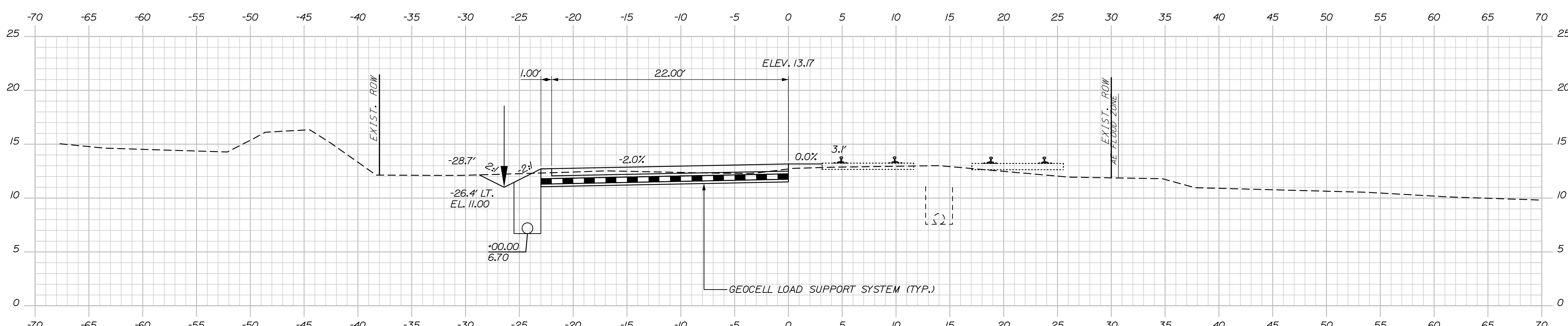
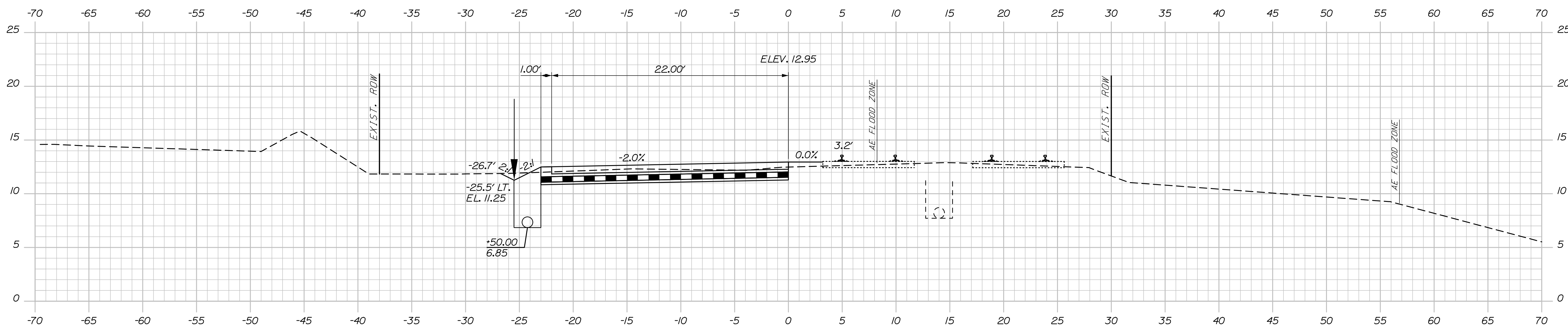
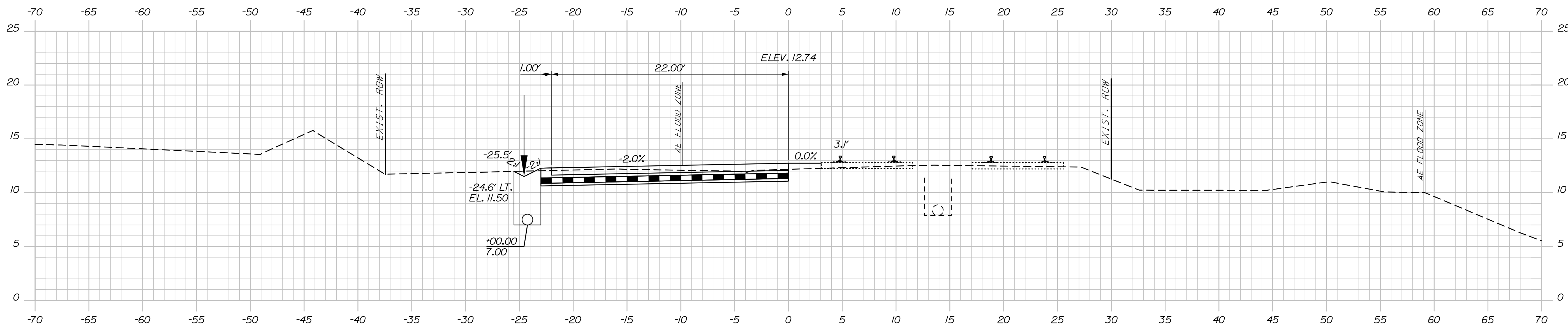
Sta. 20+50.00 to Sta. 21+50.00

Date: 3/3/2023

Username:

Division:

Filename: Xsect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02280950
WIN
022809.50

PROJ. MANAGER	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
Archie Gorreou, II	03/23	RWH	03/23			
DESIGN-DETAILED	EDD					
CHECKED-REVIEWED	RWH					
DESIGN-DETAILED						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
25
OF 33



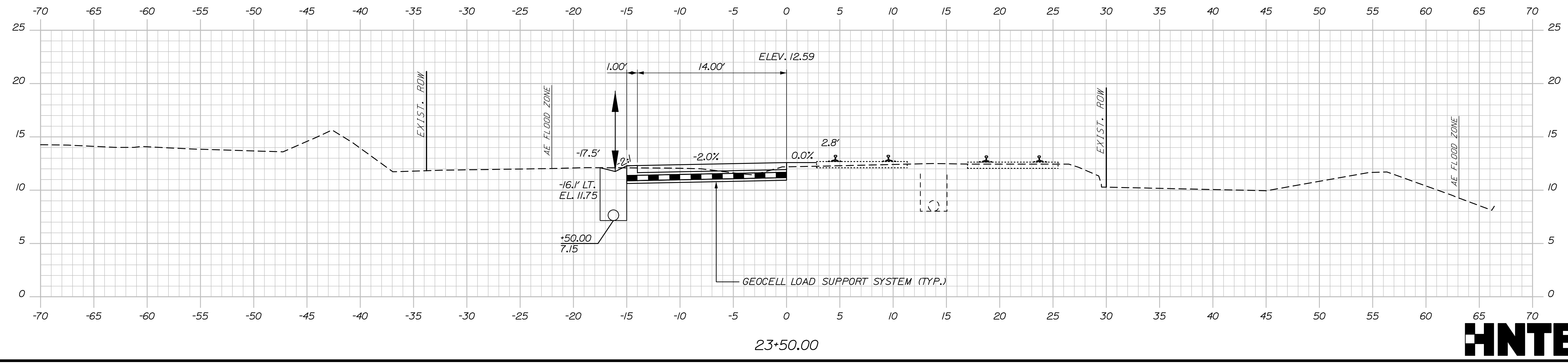
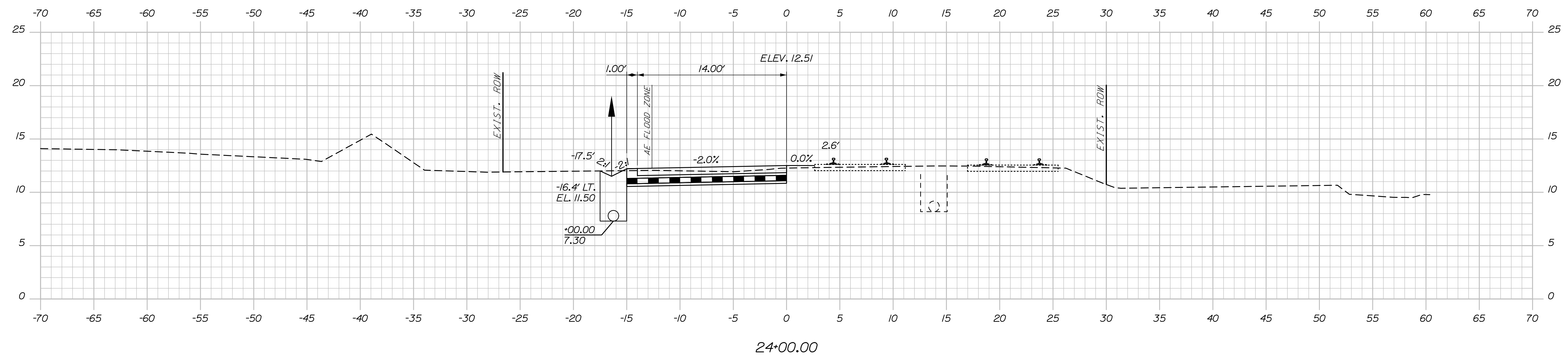
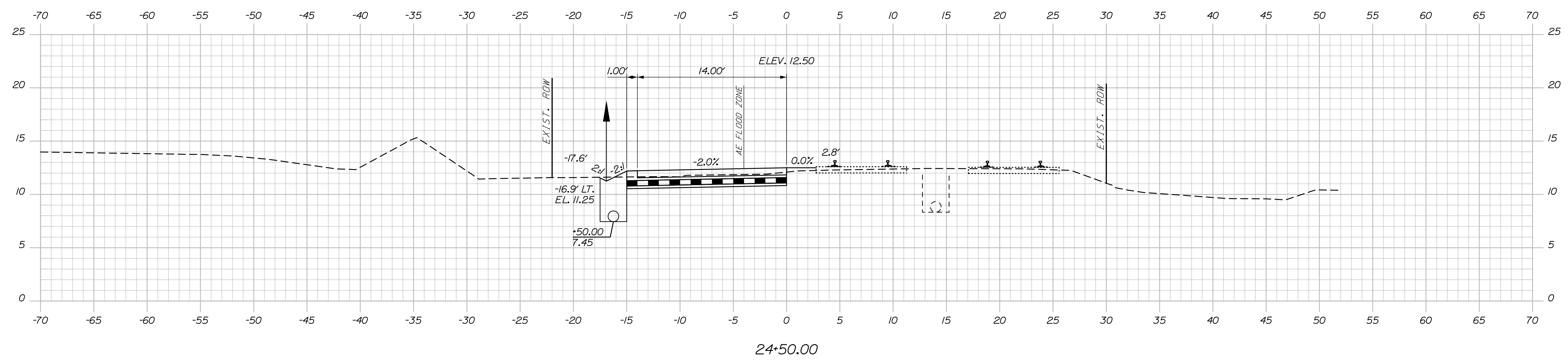
Sta. 22+00.00 to Sta. 23+00.00

Date: 3/3/2023

Username:

Division:

Filename: Xsect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02280950
WIN
022809.50

PROJ. MANAGER	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
Aurèle Gorneau, II	03/23	RWH	03/23			

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

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
26
OF 33



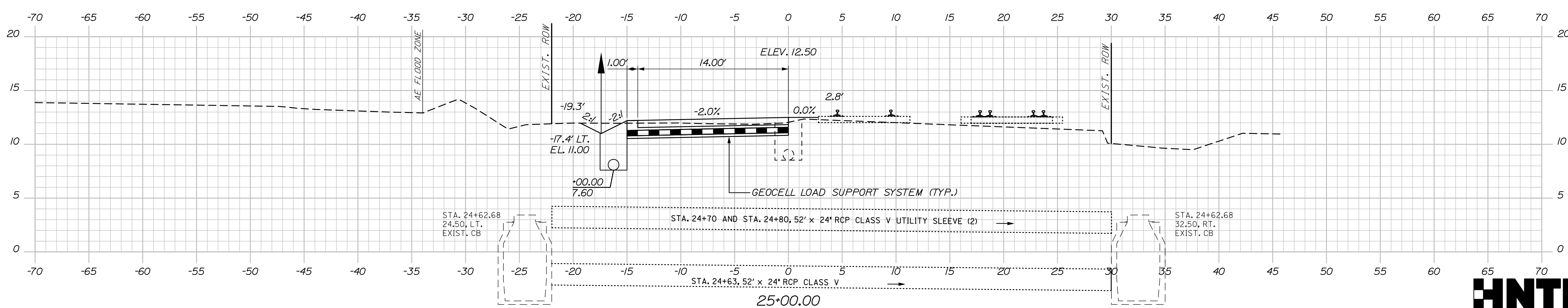
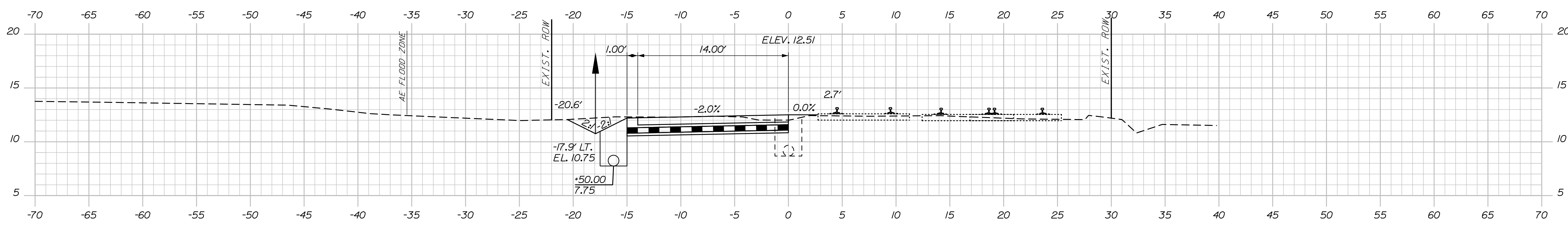
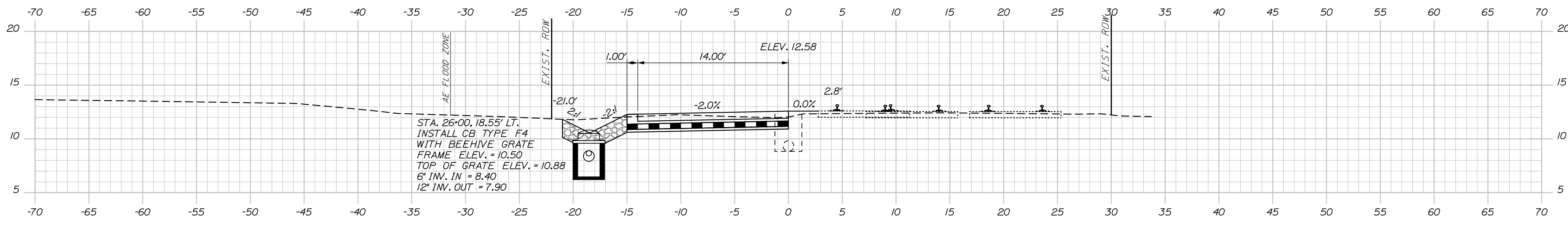
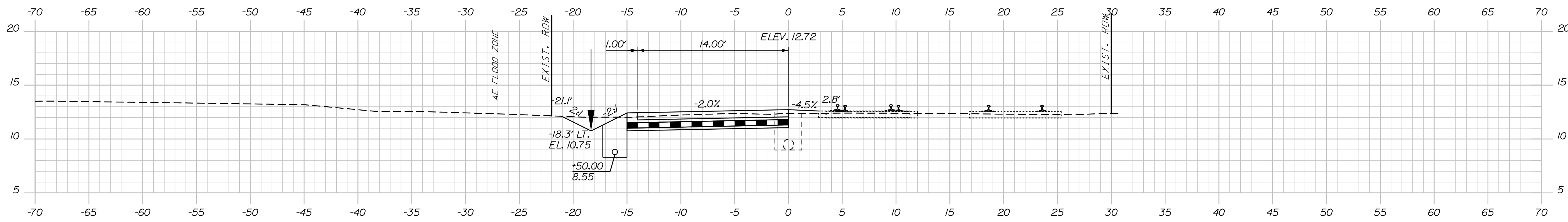
Sta. 23+50.00 to Sta. 24+50.00

Date: 3/3/2023

Username:

Division:

Filename: Xsect.dgn



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 02280950
 WIN
 022809.50

PROJ. MANAGER	DATE	BY	DATE	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS	SIGNATURE	P.E. NUMBER	DATE
Aurélien Gagneur, II	03/23	EPR	03/23	LEDD	RWH	RWH	1			
							2			
							3			
							4			
							FIELD CHANGES			

PORTLAND INTERNATIONAL MARINE TERMINAL
 HEAVY HAUL ROAD
 PORTLAND CUMBERLAND COUNTY
 CROSS SECTIONS

SHEET NUMBER
 27
 OF 33

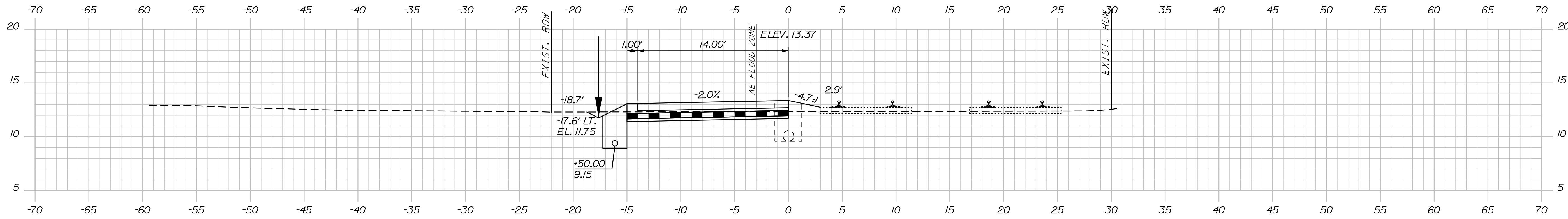


Date: 3/3/2023

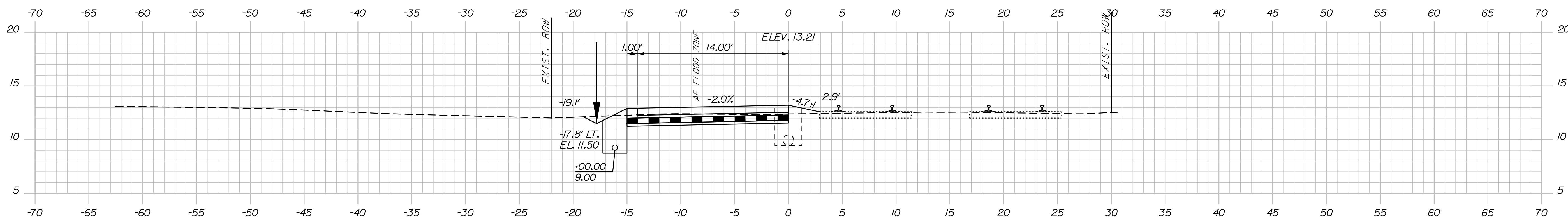
Username:

Division:

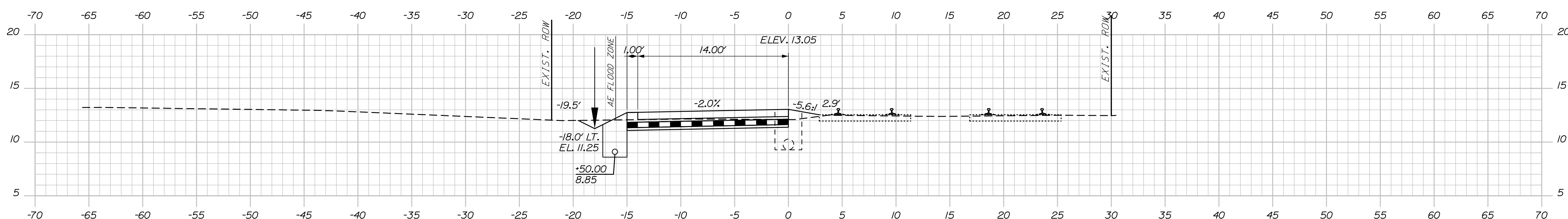
Filename: Xsect.dgn



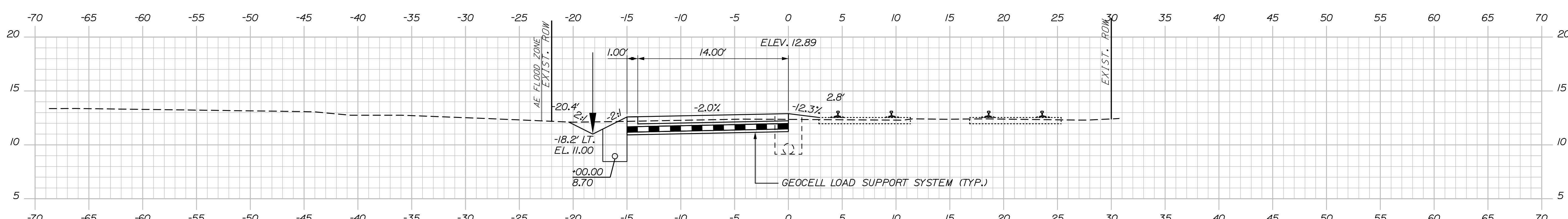
28+50.00



28+00.00



27+50.00



27+00.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02280950	
		WIN 022809.50	
PROJ. MANAGER	Auree Gornreau, II	DATE	03/23
DESIGN-DETAILED	EDD	BY	EPR
CHECKED-REVIEWED	RWH	DATE	03/23
DESIGN-DETAILED	-	SIGNATURE	-
REVISIONS 1	-	P.E. NUMBER	-
REVISIONS 2	-	DATE	-
REVISIONS 3	-	FIELD CHANGES	-
REVISIONS 4	-		
PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD PORTLAND CUMBERLAND COUNTY			
CROSS SECTIONS			
SHEET NUMBER			
28			
OF 33			



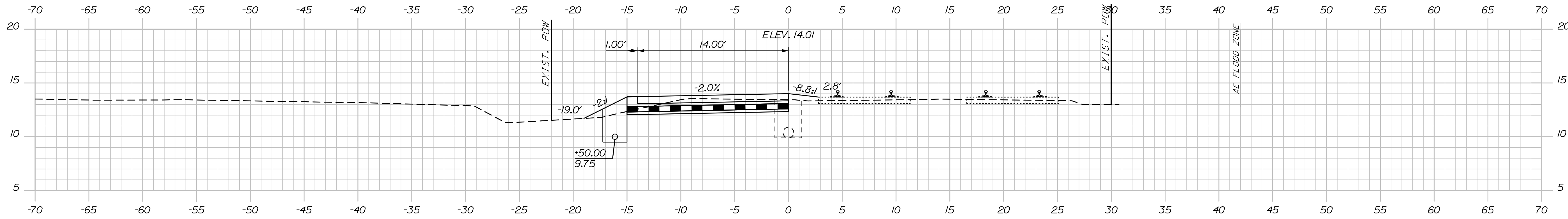
Sta. 27+00.00 to Sta. 28+50.00

Date: 3/3/2023

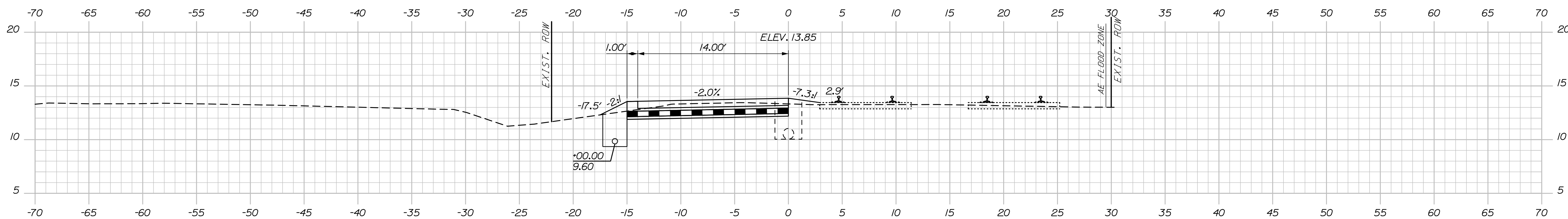
Username:

Division:

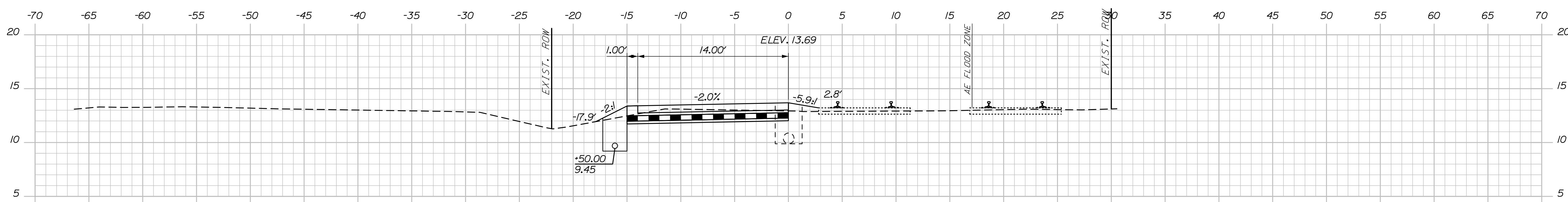
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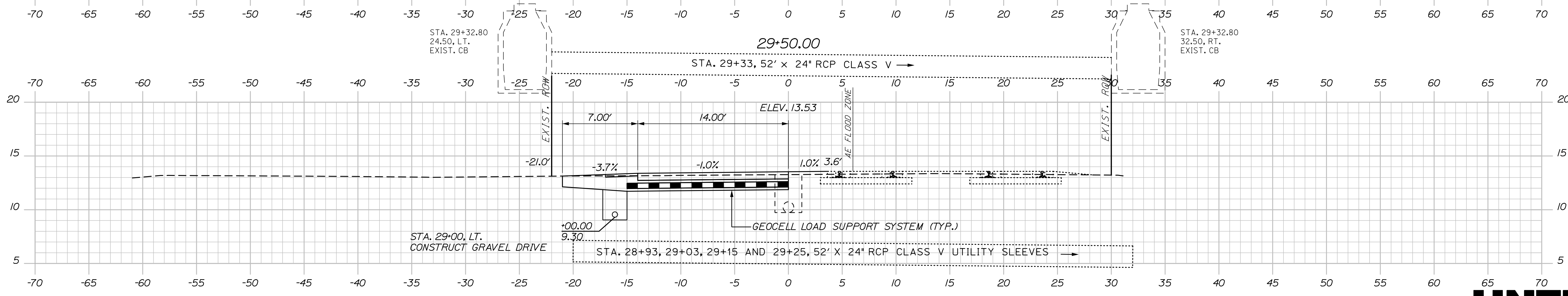
30+50.00



30+00.00



29+50.00



29+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
02280950
WIN
022809.50

PROJ. MANAGER	DATE	BY	DATE
Aurée Gorneau, II	03/23	EPR	03/23
DESIGN-DETAILED	EDD	RWH	-
CHECKED-REVIEWED	RWH	-	-
DESIGN-DETAILED	-	-	-
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

DESIGN-DETAILED	EDD	BY	DATE
EDD	RWH	-	-
CHECKED-REVIEWED	RWH	-	-
DESIGN-DETAILED	-	-	-
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

PORTLAND INTERNATIONAL MARINE TERMINAL
HEAVY HAUL ROAD
PORTLAND CUMBERLAND COUNTY
CROSS SECTIONS

SHEET NUMBER
29
OF 33



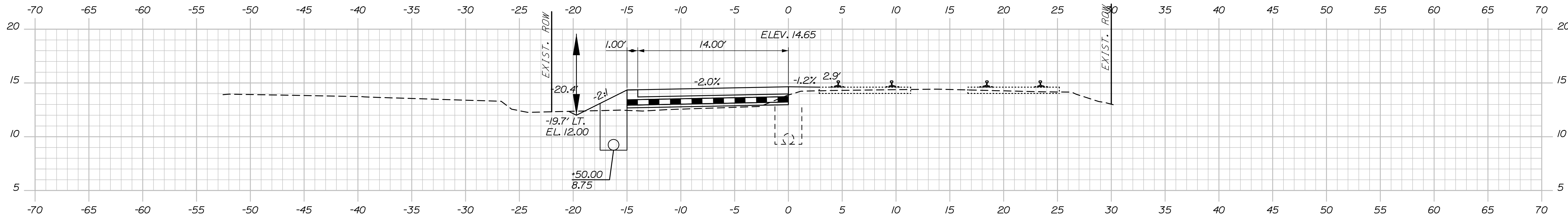
Sta. 29+00.00 to Sta. 30+50.00

Date: 3/3/2023

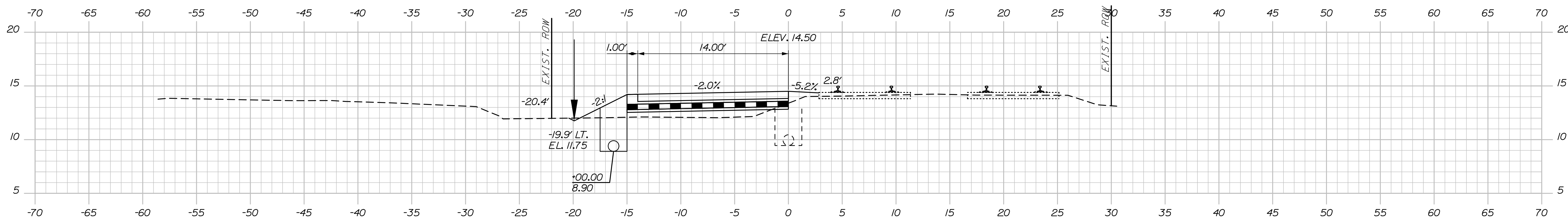
Username:

Division:

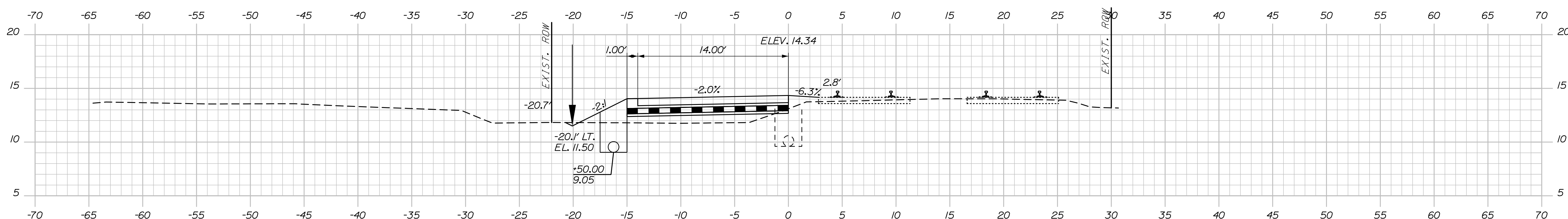
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32+50.00

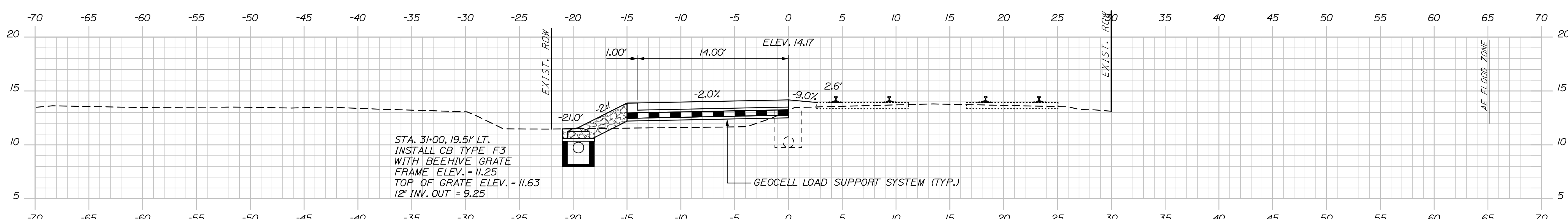


32+00.00



31+50.00

STA. 31+00.00, 19.51' LT. TO
 STA. 33+00.00, 19.50' LT.
 INSTALL 200' x 12" UNDERDRAIN TYPE C



31+00.00

STA. 31+00, 19.51' LT.
 INSTALL CB TYPE F3
 WITH BEEHIVE GRATE
 FRAME ELEV. = 11.25
 TOP OF GRATE ELEV. = 11.63
 12" INV. OUT. = 9.25

GEOCELL LOAD SUPPORT SYSTEM (TYP.)



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 02280950
 WIN
 022809.50

PROJ. MANAGER	DATE	BY	DATE
Aurée Gorneau, II	03/23	EPR	03/23
DESIGN-DETAILED	EDD	RWH	
CHECKED-REVIEWED	RWH		
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PORTLAND INTERNATIONAL MARINE TERMINAL
 HEAVY HAUL ROAD
 PORTLAND CUMBERLAND COUNTY
 CROSS SECTIONS

SHEET NUMBER
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 OF 33

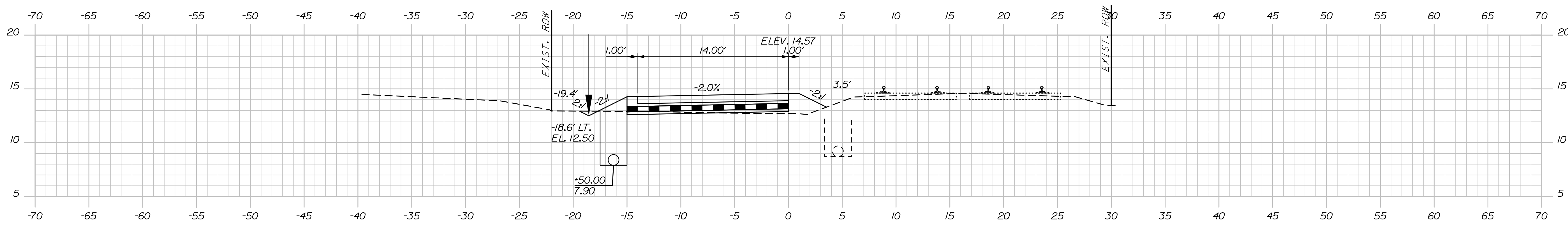
Sta. 31+00.00 to Sta. 32+50.00

Date: 3/3/2023

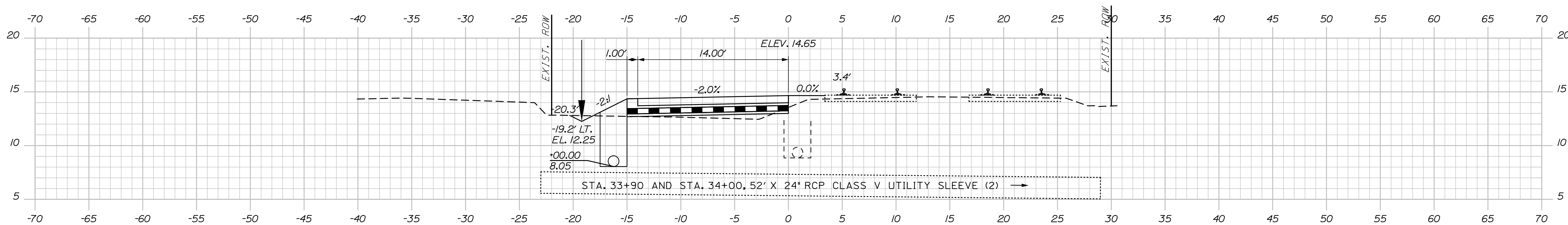
Username:

Division:

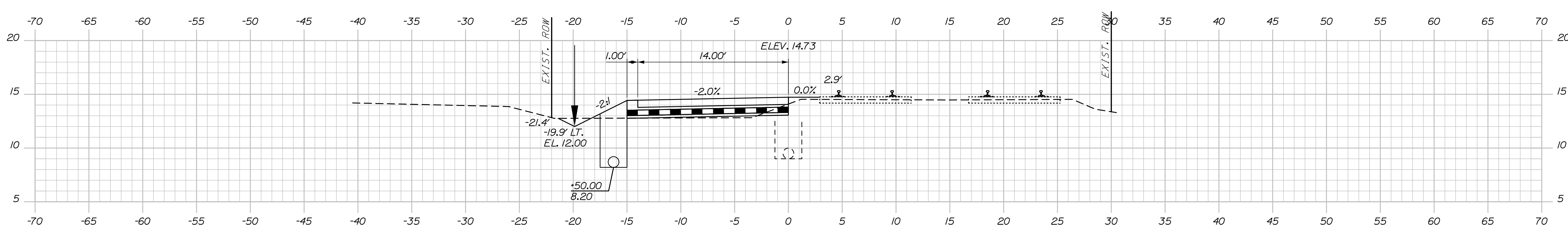
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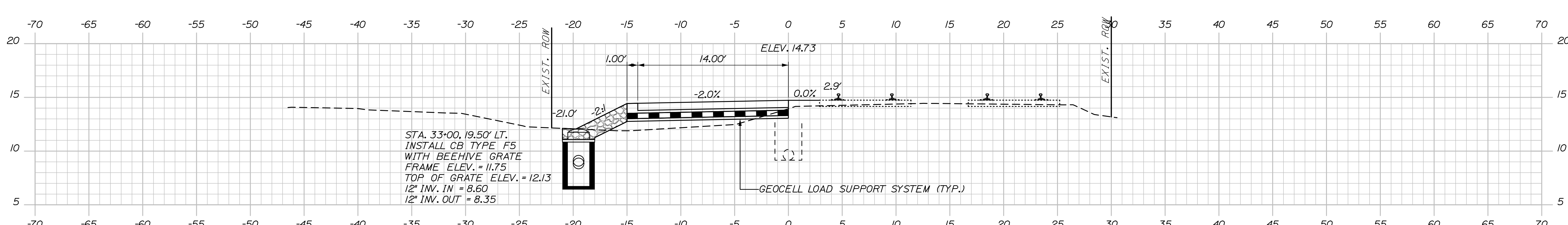
34+50.00



34+00.00



33+50.00



33+00.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		02280950	
		WIN 022809.50	
DATE	BY	DATE	BY
03/23	EPR	03/23	RWH
	EDD		
	CHECKED-REVIEWED		
	DESIGNED-DETAILED		
	DESIGNED-DETAILED		
	REVISIONS 1		
	REVISIONS 2		
	REVISIONS 3		
	REVISIONS 4		
	FIELD CHANGES		
PORTLAND INTERNATIONAL MARINE TERMINAL HEAVY HAUL ROAD		CROSS SECTIONS	
PORTLAND CUMBERLAND COUNTY			
SHEET NUMBER		31	
		OF 33	



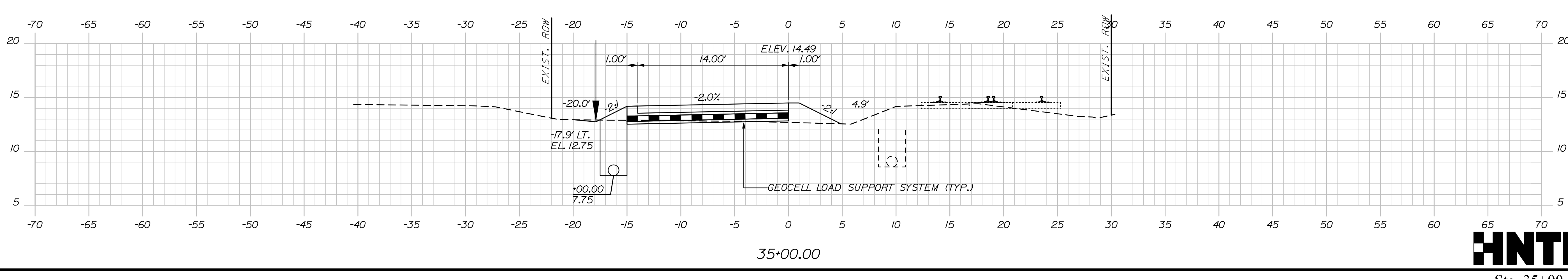
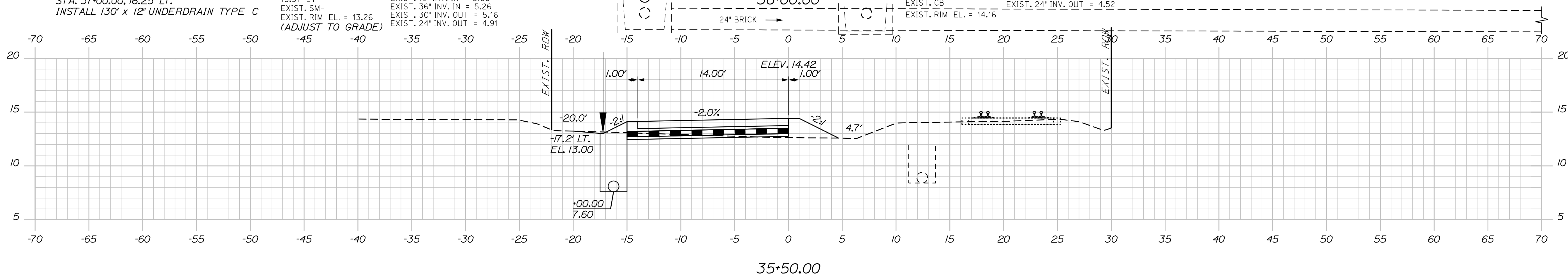
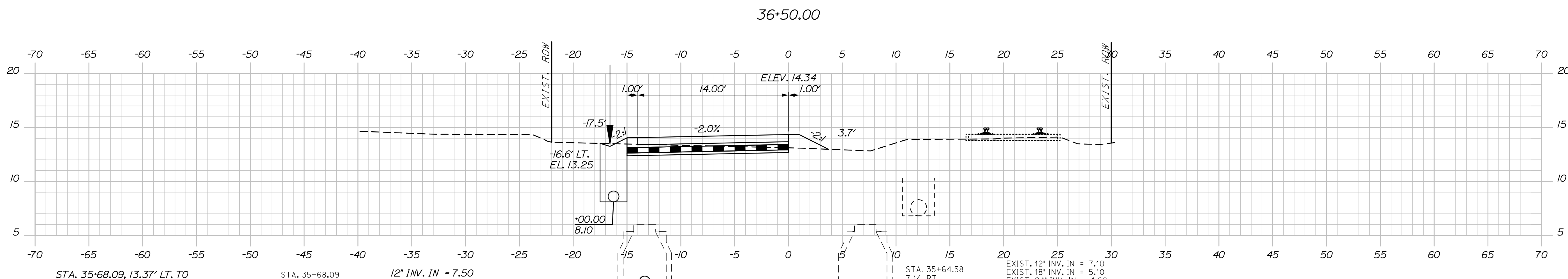
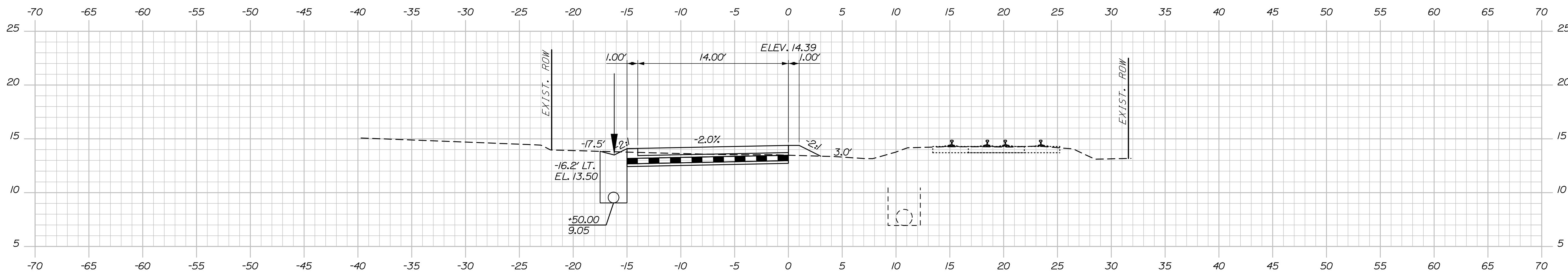
Sta. 33+00.00 to Sta. 34+50.00

Date: 3/3/2023

Username:

Division:

Filename: Xsect.dgn



STA. 35+68.09, 13.37' LT. TO
 STA. 37+00.00, 16.25' LT.
 INSTALL 130' x 12" UNDERDRAIN TYPE C

STA. 35+68.09
 13.37 LT
 EXIST. SMH
 EXIST. RIM EL. = 13.26
 (ADJUST TO GRADE)

12" INV. IN = 7.50
 EXIST. 12" INV. IN = 5.96
 EXIST. 36" INV. IN = 5.26
 EXIST. 30" INV. OUT = 5.16
 EXIST. 24" INV. OUT = 4.91

STA. 35+64.58
 7.14 RT.
 EXIST. CB
 EXIST. RIM EL. = 14.16

EXIST. 12" INV. IN = 7.10
 EXIST. 18" INV. IN = 5.10
 EXIST. 24" INV. IN = 4.68
 EXIST. 24" INV. OUT = 4.52

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 02280950
 WIN
 022809.50

PROJ. MANAGER	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
Aurie Gornou, II	03/23	EPR	03/23			
		RWH				

DESIGN-DETAILED	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
CHECKED-REVIEWED	03/23	EPR	03/23			
DESIGN-DETAILED		RWH				
DESIGN-DETAILED						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

PORTLAND INTERNATIONAL MARINE TERMINAL
 HEAVY HAUL ROAD
 PORTLAND CUMBERLAND COUNTY
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Sta. 35+00.00 to Sta. 36+50.00

