

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## BRUNSWICK CUMBERLAND COUNTY OLD BATH ROAD STATE PROJECT NO. 01881100 PROJECT LENGTH : 0.01 MILES

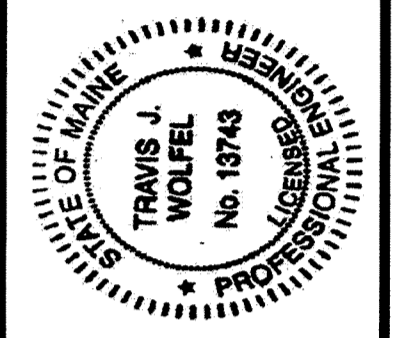
### PLAN LEGEND

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

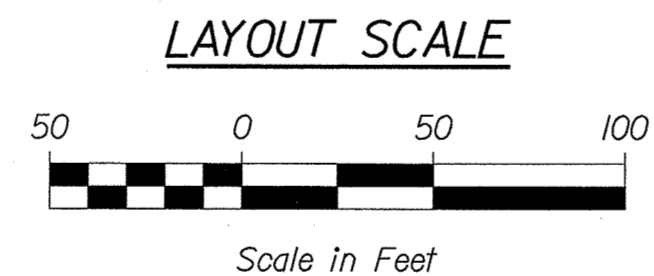
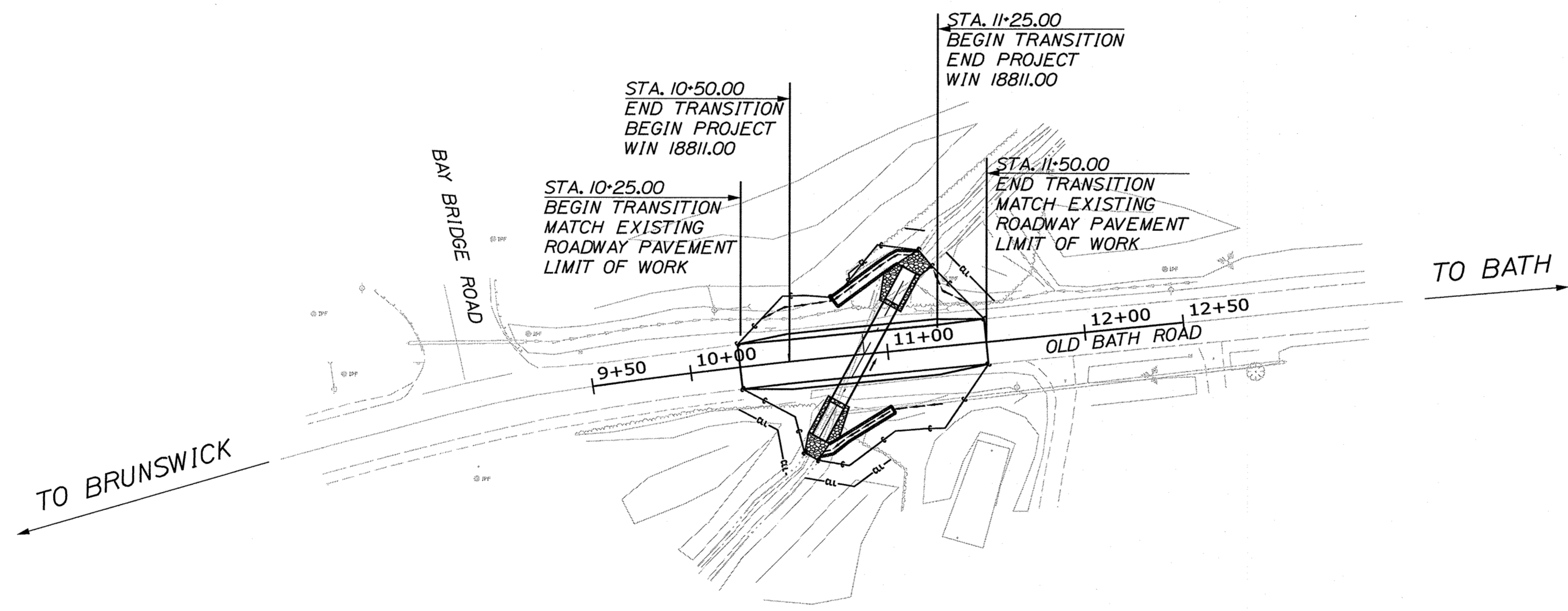
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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	<i>[Signature]</i>	6/7/19
COMMISSIONER:		6-6-19
CHIEF ENGINEER:	<i>[Signature]</i>	

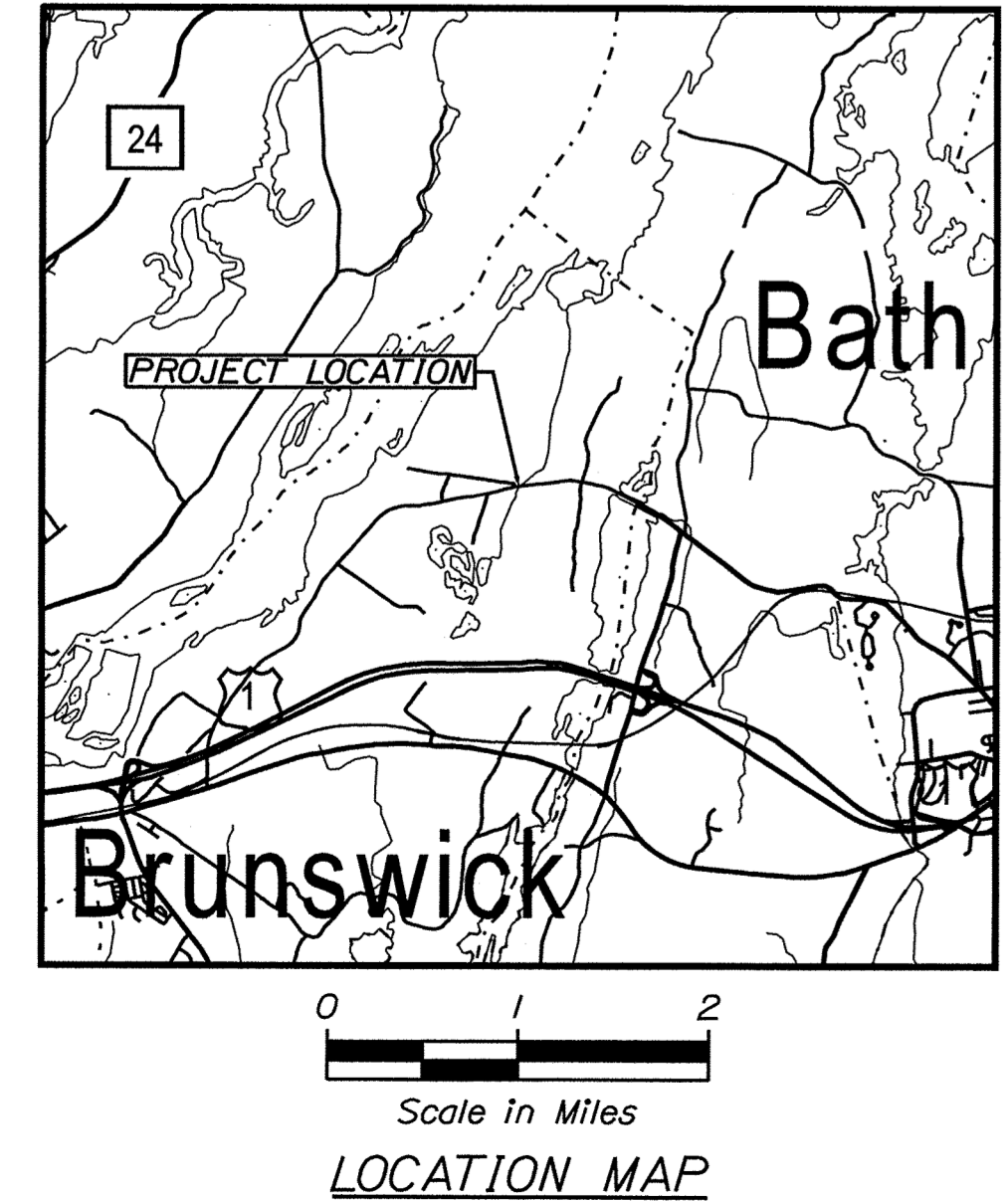


Travis J. Wolfel	SIGNATURE	P.E. NUMBER	DATE
	13743	5/8/2019	



TRAFFIC DATA	
Current (2019) AADT	2050
Future (2031) AADT	2170
DHV - % of AADT	11%
Design Hour Volume	239
% Heavy Trucks (AADT)	4%
Directional Distribution (DHV)	55%
Design Speed (mph)	40
Functional Class	Minor Collector
Corridor Priority	4

<b>PROJECT LOCATION:</b>	BRUNSWICK, LARGE CULVERT (#226919) LOCATED 0.04 MI EAST OF BAY BRIDGE RD
<b>PROGRAM AREA:</b>	HIGHWAY PROGRAM
<b>SCOPE OF WORK:</b>	LARGE CULVERT REPLACEMENT



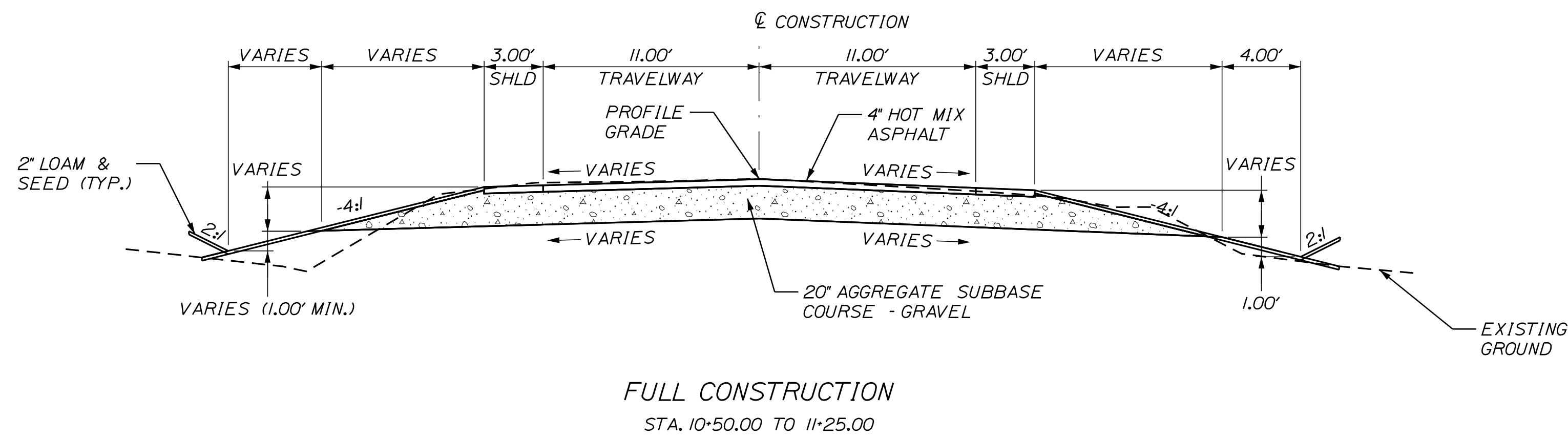
WIN 18811.00 01881100

BRUNSWICK  
OLD BATH ROAD  
TITLE SHEET

SHEET NUMBER  
**1**  
OF 13

Date: 5/8/2019  
User: ...  
Division: HIGHWAY  
Filename: ... \001\_ Title.dgn





OLD BATH ROAD CROSS SLOPES (e)				
LEFT %		STATION	RIGHT %	
SHOULDER	TRAVELWAY		TRAVELWAY	SHOULDER
MATCH EXISTING	MATCH EXISTING	10+25	MATCH EXISTING	MATCH EXISTING
-1.4	-1.4	10+50	-5.0	-5.0
-2.8	-2.8	10+75	-4.0	-4.0
-4.2	-4.2	11+00	-4.0	-4.0
-5.6	-5.6	11+25	-4.0	-4.0
MATCH EXISTING	MATCH EXISTING	11+50	MATCH EXISTING	MATCH EXISTING

**NOTES:**

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
5. THE STATIONING SHOWN UNDER EACH TYPICAL SECTION IS APPROXIMATE.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
018811.00  
WIN  
018811.00  
HIGHWAY PLANS

PROJ. MANAGER	L. HAMILTON	BY	T. WOLFFEL	DATE	5/2019
DESIGN-DETAILED	T. WOLFFEL	CHECKED-REVIEWED	M. STEELE	DATE	5/2019
DESIGN-REVIEWED	N. MORGAN	DESIGN-DETAILED		SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 1		DATE	
REVISIONS 2		REVISIONS 2			
REVISIONS 3		REVISIONS 3			
REVISIONS 4		REVISIONS 4			
FIELD CHANGES					

BRUNSWICK  
OLD BATH ROAD  
TYPICAL SECTIONS

SHEET NUMBER

2

OF 13

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203.20	COMMON EXCAVATION	450	CY
203.24	COMMON BORROW	10	CY
203.25	GRANULAR BORROW	110	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	250	CY
403.208	HOT MIX ASPHALT 12.5 MM SURFACE	32	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	53	T
409.15	BITUMINOUS TACK COAT - APPLIED	12	G
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
603.4075	95" x 67" STEEL STRUCTURAL PIPE ARCH - POLYMER COATED	96	LF
610.08	PLAIN RIPRAP	33	CY
610.18	STONE DITCH PROTECTION	18	CY
615.07	LOAM	28	CY
618.14	SEEDING METHOD NUMBER 2	5	UN
619.12	MULCH	5	UN
620.58	EROSION CONTROL GEOTEXTILE	57	SY
627.733	4 INCH WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	380	LF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	380	LF
629.05	HAND LABOR - STRAIGHT TIME	30	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	15	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	15	HR
652.312	BARRICADE TYPE III	6	EA
652.33	DRUM	25	EA
652.34	CONE	25	EA
652.35	CONSTRUCTION SIGN	300	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	30	CD
652.38	FLAGGER	100	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

**GENERAL NOTES**

- PAVEMENT THICKNESSES SHOWN ON THE TYPICAL SECTIONS ARE INTENDED TO BE NOMINAL.
- CLEARING LIMITS SHALL BE 10 FEET BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
- GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT.
- ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR AS DIRECTED BY THE RESIDENT.
- THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT UPON COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT.
- ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.
- REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.
- GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1 FOOT ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19.
- EXISTING INSLOPES IN PROPOSED FILL AREAS SHALL BE BENCHED BY EXCAVATING STEPS OF SUFFICIENT WIDTH TO PERMIT PLACING AND COMPACTING THE FILL MATERIAL ALONG WITH THE MATERIAL REMOVED.
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
- LOAM HAS BEEN ESTIMATED FOR DISTURBED LAWN AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
- 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.
- 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.
- 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.
- THE PROJECT GEOTECHNICAL REPORT TITLED: GEOTECHNICAL DESIGN REPORT FOR THE REPLACEMENT OF CROSS CULVERT \*XC-226919, SOILS REPORT 2019-12, APRIL 30, 2019 CAN BE ACCESSED AT THE MAINE DOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).
- 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. MAINE DOT 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.
- AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
- 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.
- 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.
- "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.
- FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING LAYOUT IN THE CONTRACT DOCUMENTS OR AS PROVIDED BY THE DEPARTMENT. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

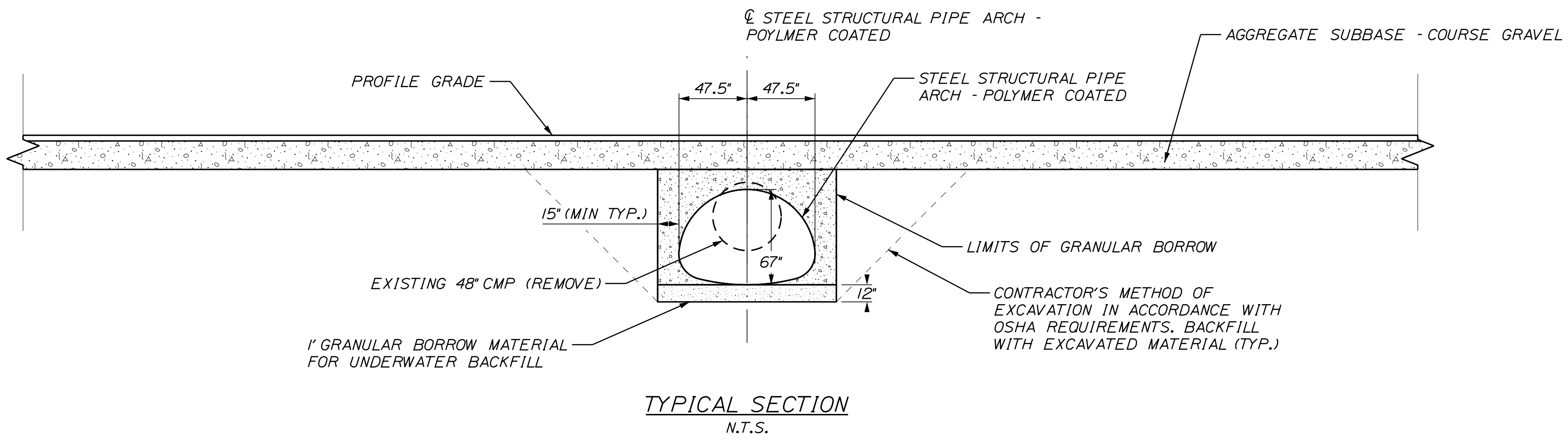
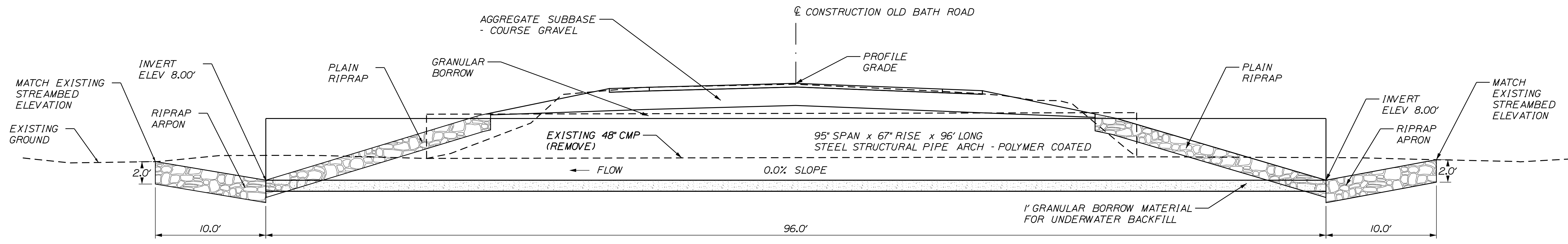
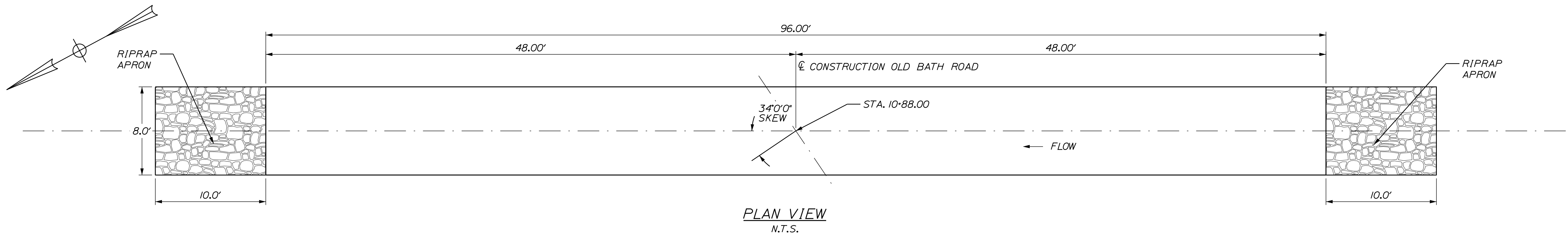
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		018811.00		WIN 018811.00		HIGHWAY PLANS	
BRUNSWICK OLD BATH ROAD		ESTIMATED QUANTITIES & GENERAL NOTES		SHEET NUMBER		3	
PROJ. MANAGER	L. HAMILTON	BY	T. WOLFE	DATE	5/2019	SIGNATURE	
CHECKED-REVIEWED	T. WOLFE	DESIGNED	M. STEELE		5/2019	P.E. NUMBER	
DESIGNED-REVIEWED	N. MORGAN	DESIGNED				DATE	
REVISIONS 1		REVISIONS 1					
REVISIONS 2		REVISIONS 2					
REVISIONS 3		REVISIONS 3					
REVISIONS 4		REVISIONS 4					
FIELD CHANGES		FIELD CHANGES					

Date: 5/11/2019

Username:

Division: HIGHWAY

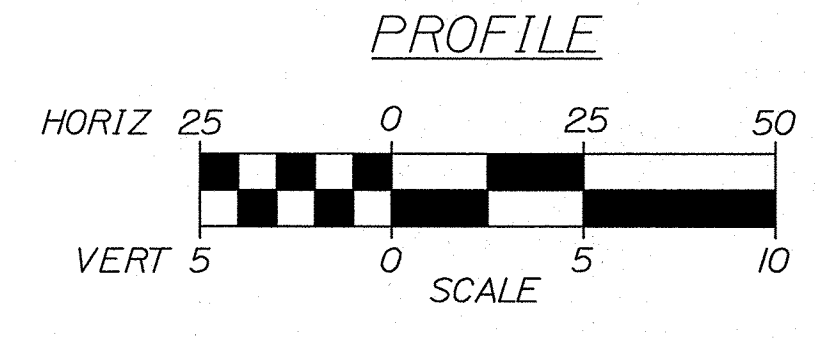
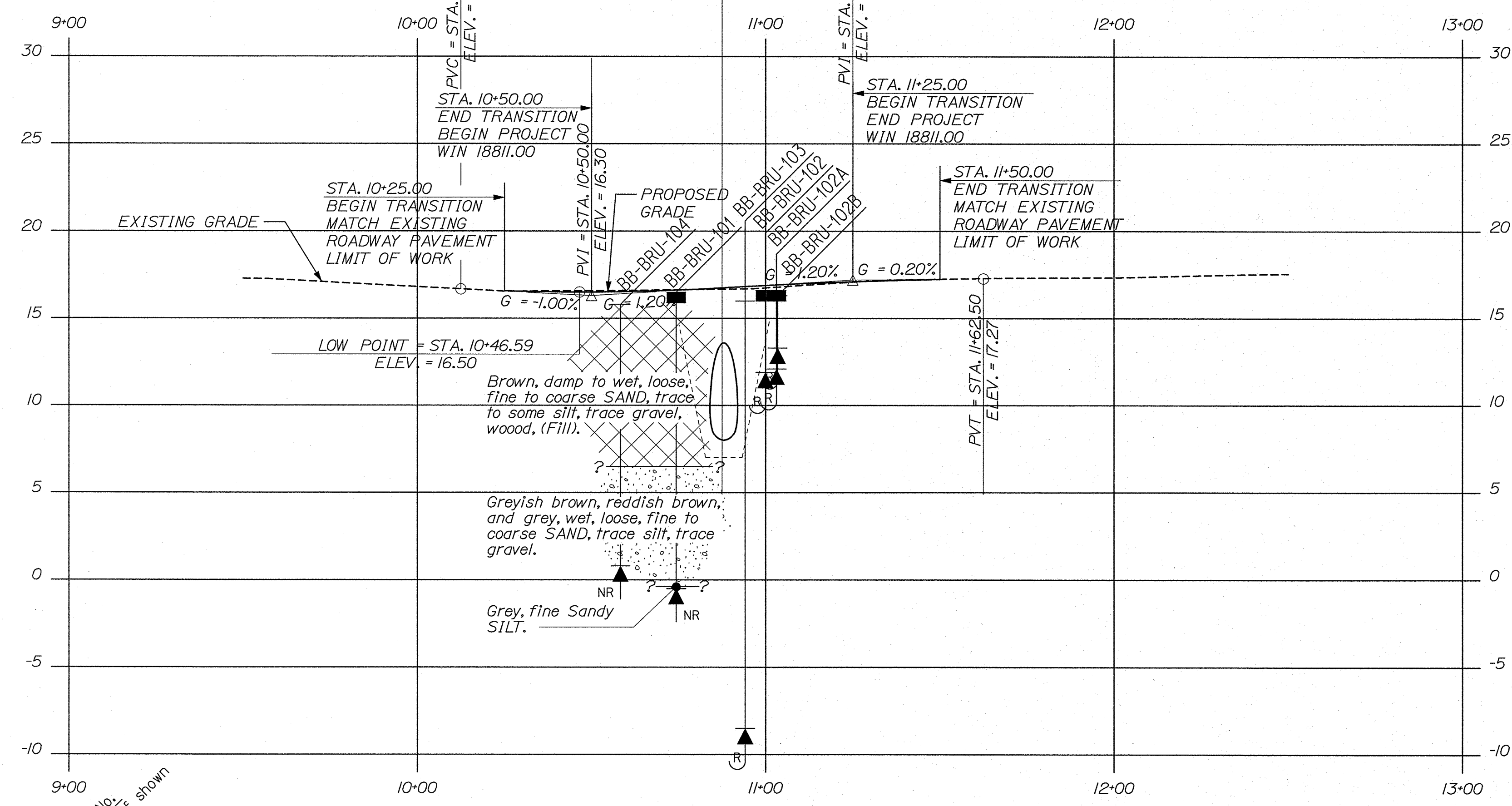
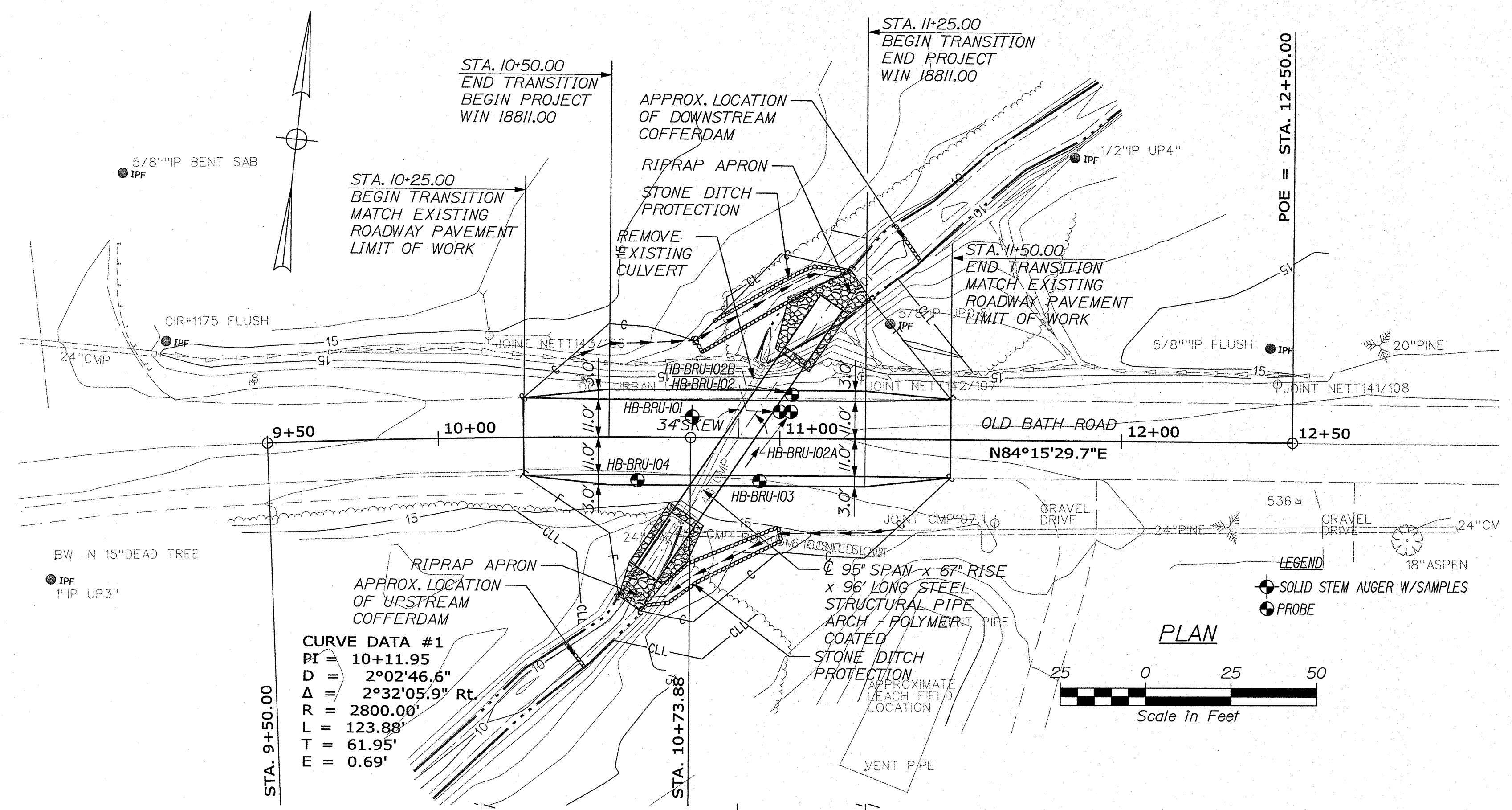
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**NOTES**

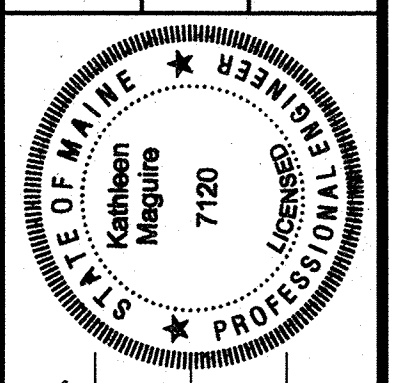
1. THE CULVERT SHALL BE BEDDED ON A 1-FOOT LAYER OF COMPACTED GRANULAR BORROW MATERIAL MEETING THE REQUIREMENTS FOR UNDERWATER BACKFILL.
2. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF THE CULVERT TO ALLOW CONSTRUCTION OF THE CULVERT IN THE DRY.
3. RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET. SEE PLAN AND PROFILE FOR LOCATIONS.
4. THE STEEL PLATE THICKNESS OF THE STEEL STRUCTURAL PIPE ARCH - POLYMER COATED SHALL BE 0.138".

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		018811.00	
BRUNSWICK OLD BATH ROAD		WIN 018811.00	
CULVERT DETAILS		HIGHWAY PLANS	
PROJ. MANAGER L. HAMILTON	BY T. WOLFE M. STEELE	DATE 5/2019 5/2019	SIGNATURE
CHECKED-REVIEWED DESIGNS DETAILED	N. MORGAN		P.E. NUMBER
DESIGNS DETAILED			DATE
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SHEET NUMBER			
4			
OF 13			



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

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 018811.00  
 WIN 18811.00  
 HIGHWAY PLANS



SIGNATURE: Kathleen Maguire  
 P.E. NUMBER: 7120  
 DATE: 5/2/19

PROJ. MANAGER	DATE
DESIGN-DETAILED	
CHECKED-REVIEWED	
DESIGN-DETAILED 2	T. WHITE APR 2019
DESIGN-DETAILED 3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

BRUNSWICK  
 OLD BATH ROAD  
 BORING LOCATION PLAN &  
 INTERPRETIVE SURFACE PROFILE

SHEET NUMBER  
 5  
 OF 13

Maine Department of Transportation Soil/Borehole Exploration Log US CUSTOMARY UNITS		Project: Large Culvert #226919 Replacement Location: Brunswick, Maine		Boring No.: HB-BRU-101 WIN: 18811.00	
Driller: New England Boring	Elevation (ft.): 16.5	Auger ID/OD: 3.5"	Operator: Dupuis/Maynard	Sampler: Standard Split Spoon	
Operator: Dupuis/Maynard	Notes: NAVD88		Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: 140W/30"
Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: 140W/30"	Date Start/Finish: 11/8/2016: 09:55-10:20	Drilling Method: Solid Stem Auger	Core Barrel: N/A
Date Start/Finish: 11/8/2016: 09:55-10:20	Drilling Method: Solid Stem Auger	Core Barrel: N/A	Boring Location: 10+74.3, 6.1 ft Lt.	Casing ID/OD: N/A	Water Level: 5.5 ft. open to 6.0 ft
Boring Location: 10+74.3, 6.1 ft Lt.	Casing ID/OD: N/A	Water Level: 5.5 ft. open to 6.0 ft	Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>	
Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>		Definitions: S = Rock Core Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) B = Split Spoon Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Split Spoon Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) L = Thin Wall Tube Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Thin Wall Tube Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) F = Field Vane Shear Test      PP = Pocket Penetrometer      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Grain Size Analysis M = Unsuccessful Field Vane Shear Test Attempt      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Consolidation Test		
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. (or 12 in.)	Notes
10	16	8.15	0.60	2.00	0.6 ft SMA.
					Brown, damp, loose, fine to coarse SAND, trace silt, trace gravel, (fill).
5	20	24/11	5.00	17/42/27	6 6
					Brown, wet, loose, fine to coarse SAND, some silt, trace gravel and wood (approximately 25% by volume of sample), strong granitic smell. (fill).
10	30	24/18	10.00	2/3/6/10	9 9
					Grayish brown grading to reddish brown, wet, loose, fine to coarse SAND, trace silt, trace gravel.
15	40	24/17	15.00	3/3/4/4	7 7
					Reddish brown grading to gray, wet, loose, fine to coarse SAND, trace silt, trace gravel, gray, fine sandy SILT in tip of spoon.
20					Bottom of Exploration at 17.0 feet below ground surface. NO REFUSAL.
Stratification lines represent approximate boundaries between soil types; transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.					
Page 1 of 1					
Boring No.: HB-BRU-101					

Maine Department of Transportation Soil/Borehole Exploration Log US CUSTOMARY UNITS		Project: Large Culvert #226919 Replacement Location: Brunswick, Maine		Boring No.: HB-BRU-102 WIN: 18811.00	
Driller: New England Boring	Elevation (ft.): 16.6	Auger ID/OD: 3.5"	Operator: Dupuis/Maynard	Sampler: N/A	
Operator: Dupuis/Maynard	Notes: NAVD88		Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A
Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A	Date Start/Finish: 11/8/2016: 09:20-09:50	Drilling Method: Solid Stem Auger	Core Barrel: N/A
Date Start/Finish: 11/8/2016: 09:20-09:50	Drilling Method: Solid Stem Auger	Core Barrel: N/A	Boring Location: 10+93.9, 7.8 ft Lt.	Casing ID/OD: N/A	Water Level: None Observed
Boring Location: 10+93.9, 7.8 ft Lt.	Casing ID/OD: N/A	Water Level: None Observed	Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>	
Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>		Definitions: S = Rock Core Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) B = Split Spoon Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Split Spoon Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) L = Thin Wall Tube Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Thin Wall Tube Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) F = Field Vane Shear Test      PP = Pocket Penetrometer      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Grain Size Analysis M = Unsuccessful Field Vane Shear Test Attempt      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Consolidation Test		
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. (or 12 in.)	Notes
10					0.6 ft SMA.
					Auger cuttings from 0.6-4.7 ft bgs. Brown, damp, gravely fine to coarse SAND, little silt; very bony based on grilling behavior.
5					Strong petroleum odor at 3.0 ft bgs.
10					Bottom of Exploration at 4.7 feet below ground surface. AUGER REFUSAL, relocated to HB-BRU-102A.
Stratification lines represent approximate boundaries between soil types; transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.					
Page 1 of 1					
Boring No.: HB-BRU-102					

Maine Department of Transportation Soil/Borehole Exploration Log US CUSTOMARY UNITS		Project: Large Culvert #226919 Replacement Location: Brunswick, Maine		Boring No.: HB-BRU-102A WIN: 18811.00	
Driller: New England Boring	Elevation (ft.): 16.6	Auger ID/OD: 3.5"	Operator: Dupuis/Maynard	Sampler: N/A	
Operator: Dupuis/Maynard	Notes: NAVD88		Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A
Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A	Date Start/Finish: 11/8/2016: 09:55-10:20	Drilling Method: Solid Stem Auger	Core Barrel: N/A
Date Start/Finish: 11/8/2016: 09:55-10:20	Drilling Method: Solid Stem Auger	Core Barrel: N/A	Boring Location: 10+93.9, 7.8 ft Lt.	Casing ID/OD: N/A	Water Level: None Observed
Boring Location: 10+93.9, 7.8 ft Lt.	Casing ID/OD: N/A	Water Level: None Observed	Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>	
Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>		Definitions: S = Rock Core Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) B = Split Spoon Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Split Spoon Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) L = Thin Wall Tube Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Thin Wall Tube Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) F = Field Vane Shear Test      PP = Pocket Penetrometer      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Grain Size Analysis M = Unsuccessful Field Vane Shear Test Attempt      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Consolidation Test		
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. (or 12 in.)	Notes
10					0.6 ft SMA.
					Auger cuttings from 0.6-4.0 ft bgs. Brown, damp, gravely fine to coarse SAND, some silt.
5					Strong petroleum odor at 2.0 ft bgs.
10					Bottom of Exploration at 4.5 feet below ground surface. AUGER REFUSAL, relocated to HB-BRU-102B.
Stratification lines represent approximate boundaries between soil types; transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.					
Page 1 of 1					
Boring No.: HB-BRU-102A					

Maine Department of Transportation Soil/Borehole Exploration Log US CUSTOMARY UNITS		Project: Large Culvert #226919 Replacement Location: Brunswick, Maine		Boring No.: HB-BRU-102B WIN: 18811.00	
Driller: New England Boring	Elevation (ft.): 16.3	Auger ID/OD: 3.5"	Operator: Dupuis/Maynard	Sampler: N/A	
Operator: Dupuis/Maynard	Notes: NAVD88		Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A
Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A	Date Start/Finish: 11/8/2016: 10:25-10:50	Drilling Method: Solid Stem Auger	Core Barrel: N/A
Date Start/Finish: 11/8/2016: 10:25-10:50	Drilling Method: Solid Stem Auger	Core Barrel: N/A	Boring Location: 11+05.4, 12.6 ft Lt.	Casing ID/OD: N/A	Water Level: None Observed
Boring Location: 11+05.4, 12.6 ft Lt.	Casing ID/OD: N/A	Water Level: None Observed	Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>	
Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>		Definitions: S = Rock Core Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) B = Split Spoon Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Split Spoon Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) L = Thin Wall Tube Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Thin Wall Tube Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) F = Field Vane Shear Test      PP = Pocket Penetrometer      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Grain Size Analysis M = Unsuccessful Field Vane Shear Test Attempt      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Consolidation Test		
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. (or 12 in.)	Notes
10					Gravel Shoulder.
					Obstruction at 2.7 ft bgs, cuttings smell like crushed concrete.
5					Bottom of Exploration at 3.0 feet below ground surface. AUGER REFUSAL, smooth ground-sound suggests steel.
Stratification lines represent approximate boundaries between soil types; transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.					
Page 1 of 1					
Boring No.: HB-BRU-102B					

Maine Department of Transportation Soil/Borehole Exploration Log US CUSTOMARY UNITS		Project: Large Culvert #226919 Replacement Location: Brunswick, Maine		Boring No.: HB-BRU-103 WIN: 18811.00	
Driller: New England Boring	Elevation (ft.): 16.0	Auger ID/OD: 3.5"	Operator: Dupuis/Maynard	Sampler: N/A	
Operator: Dupuis/Maynard	Notes: NAVD88		Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A
Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A	Date Start/Finish: 11/8/2016: 13:25-13:05	Drilling Method: Solid Stem Auger	Core Barrel: N/A
Date Start/Finish: 11/8/2016: 13:25-13:05	Drilling Method: Solid Stem Auger	Core Barrel: N/A	Boring Location: 10+84.3, 12.6 ft Lt.	Casing ID/OD: N/A	Water Level: NONE TO MEASURE, COARD
Boring Location: 10+84.3, 12.6 ft Lt.	Casing ID/OD: N/A	Water Level: NONE TO MEASURE, COARD	Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>	
Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>		Definitions: S = Rock Core Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) B = Split Spoon Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Split Spoon Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) L = Thin Wall Tube Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Thin Wall Tube Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) F = Field Vane Shear Test      PP = Pocket Penetrometer      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Grain Size Analysis M = Unsuccessful Field Vane Shear Test Attempt      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Consolidation Test		
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. (or 12 in.)	Notes
10					Gravel Shoulder.
					Bony from 1.0-6.5 ft bgs.
5					Silt not bony at 6.5 ft bgs; soft, easy advancement. Auger cuttings from 6.5-24.0 ft bgs: Brownish-grey, wet, fine sandy SILT grading to grey, silty clay.
10					Silt becomes bony at 24.0 ft bgs. AUGER REFUSAL
15					Bottom of Exploration at 24.5 feet below ground surface.
Stratification lines represent approximate boundaries between soil types; transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.					
Page 1 of 1					
Boring No.: HB-BRU-103					

Maine Department of Transportation Soil/Borehole Exploration Log US CUSTOMARY UNITS		Project: Large Culvert #226919 Replacement Location: Brunswick, Maine		Boring No.: HB-BRU-104 WIN: 18811.00	
Driller: New England Boring	Elevation (ft.): 15.8	Auger ID/OD: 3.5"	Operator: Dupuis/Maynard	Sampler: N/A	
Operator: Dupuis/Maynard	Notes: NAVD88		Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A
Logged By: Be Schonewald	Rig Type: Mobile Drill B-51 Trailer	Home Wt./Fall: N/A	Date Start/Finish: 11/8/2016: 13:10-14:15	Drilling Method: Solid Stem Auger	Core Barrel: N/A
Date Start/Finish: 11/8/2016: 13:10-14:15	Drilling Method: Solid Stem Auger	Core Barrel: N/A	Boring Location: 10+98.3, 12.6 ft Lt.	Casing ID/OD: N/A	Water Level: NONE TO MEASURE, COARD
Boring Location: 10+98.3, 12.6 ft Lt.	Casing ID/OD: N/A	Water Level: NONE TO MEASURE, COARD	Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>	
Home Efficiency Factor: 0.60	Home Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothrod <input checked="" type="checkbox"/>		Definitions: S = Rock Core Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) B = Split Spoon Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Split Spoon Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) L = Thin Wall Tube Sample      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) M = Unsuccessful Thin Wall Tube Sample Attempt      SA = Solid Stem Auger      S <sub>u</sub> = Undrained Shear Strength (psf) F = Field Vane Shear Test      PP = Pocket Penetrometer      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Grain Size Analysis M = Unsuccessful Field Vane Shear Test Attempt      MW = Weight of Rods or Casing      S = SPT Uncorrected Corrected for Home Efficiency      C = Consolidation Test		
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. (or 12 in.)	Notes
10					Gravel Shoulder.
					Auger cuttings from 0.5-5.0 ft bgs: Damp to moist, silty fine to medium SAND.
5					Auger cuttings from 5.0-15.0 ft bgs: Wet, fine to coarse SAND, some silt.
10					Bottom of Exploration at 15.0 feet below ground surface. NO REFUSAL.
Stratification lines represent approximate boundaries between soil types; transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.					
Page 1 of 1					
Boring No.: HB-BRU-104					

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

018811.00

WIN  
18811.00

HIGHWAY PLANS

STATE OF MAINE  
Kathleen Maguire  
7120  
PROFESSIONAL ENGINEER

SIGNATURE: \_\_\_\_\_ DATE: 5/2/2019

P.E. NUMBER: 7120

DATE: 5/2/2019

DESIGN-DETAILED	APR 2019
CHECKED-REVIEWED	WHITE
DESIGN-DETAILED	CROSSELL
DESIGN-DETAILED	CROSSELL
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

BRUNSWICK  
OLD BATH ROAD

BORING LOGS

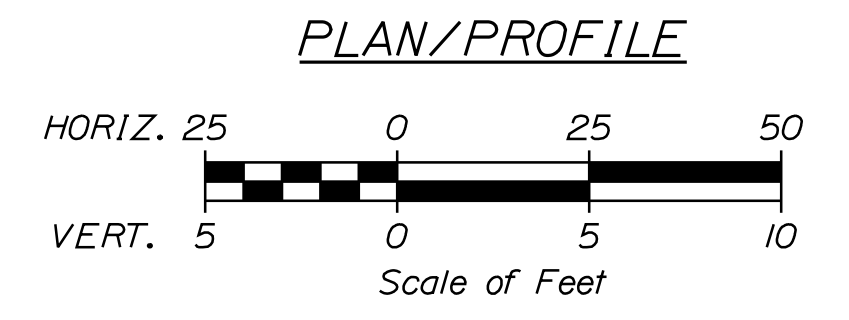
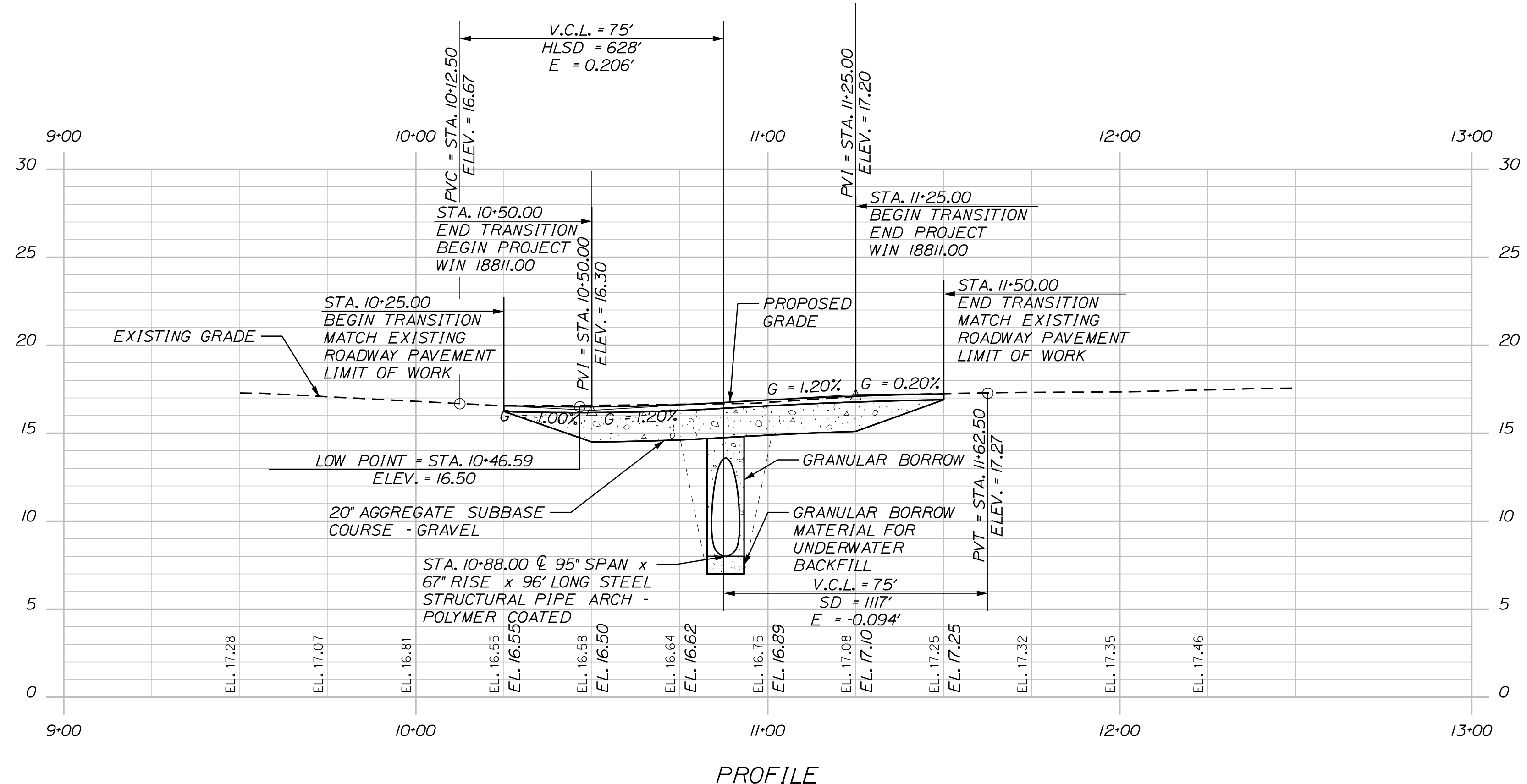
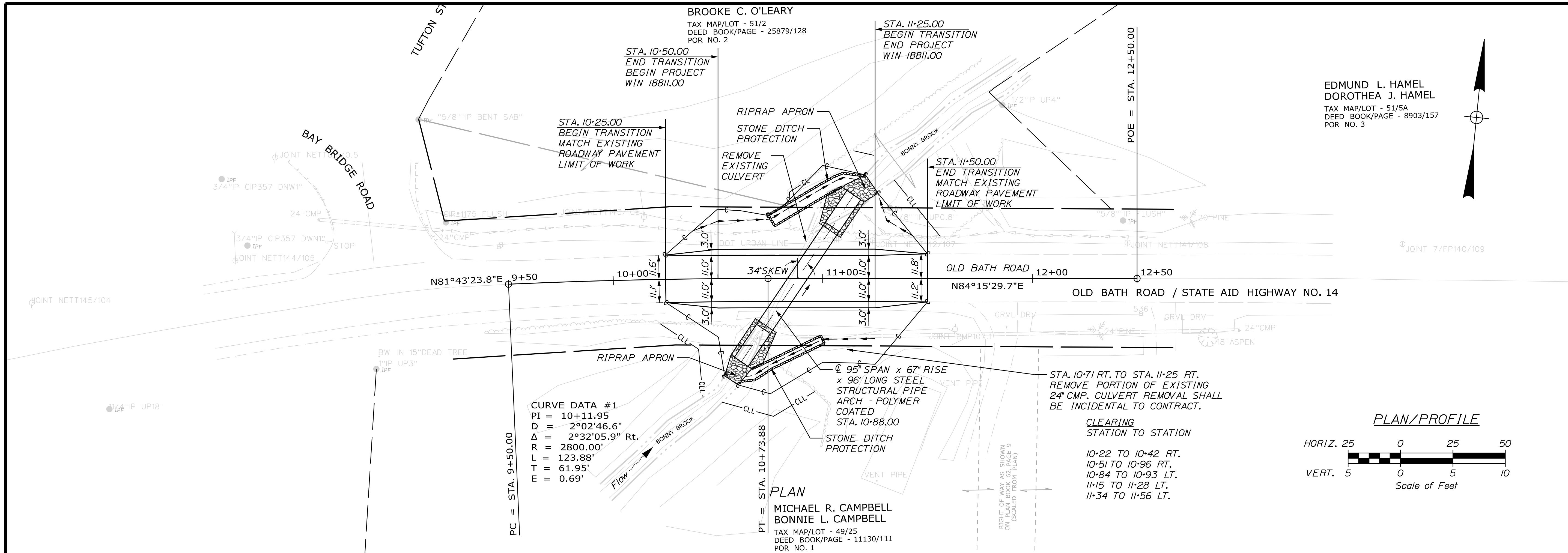
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OF 13

Date: 5/11/2019

Username:

Division: HIGHWAY

Filename: ... \007\_HDPlan.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
018811.00  
WIN 018811.00  
HIGHWAY PLANS

DATE 5/2019  
BY T. WOLFEL  
L. HAMILTON  
M. STEELE  
M. MORGAN  
SIGNATURE

P.E. NUMBER  
DATE

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

BRUNSWICK  
OLD BATH ROAD  
PLAN & PROFILE

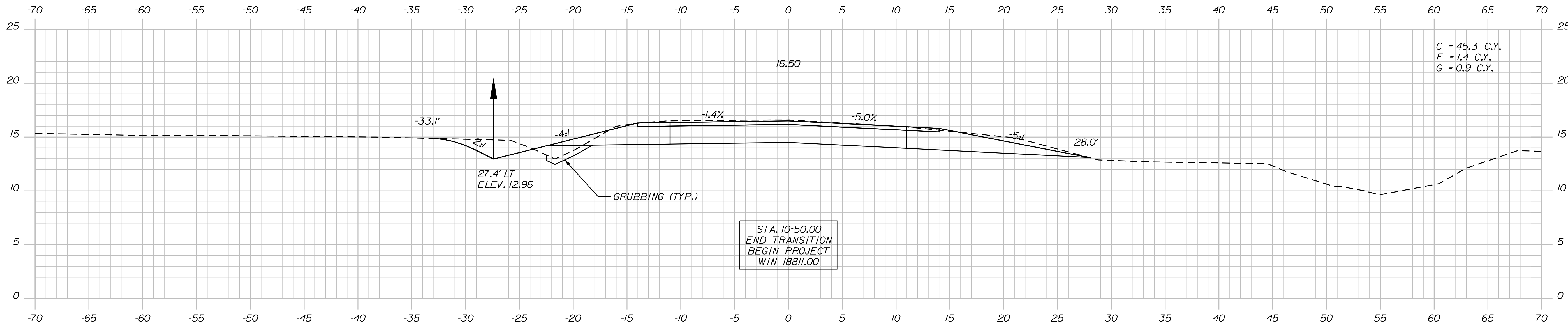
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Date: 5/11/2019

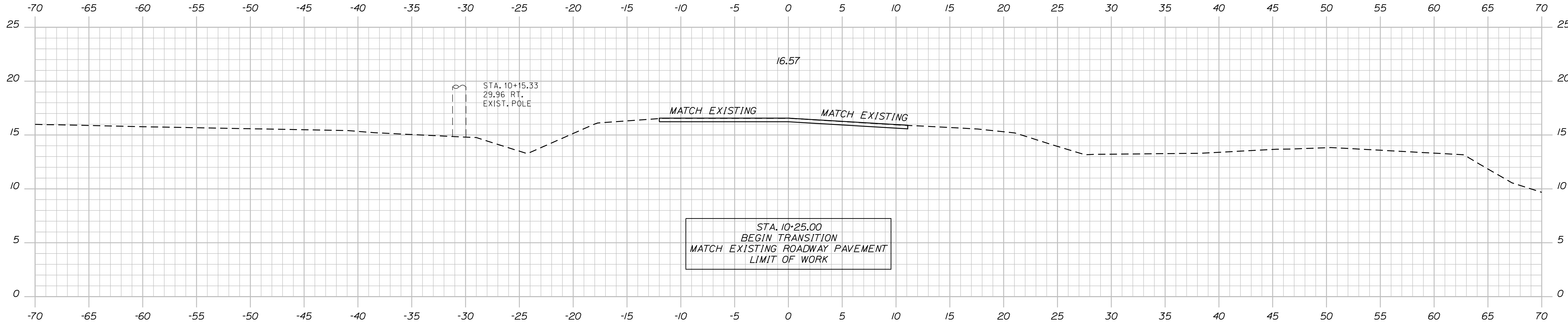
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Division: HIGHWAY

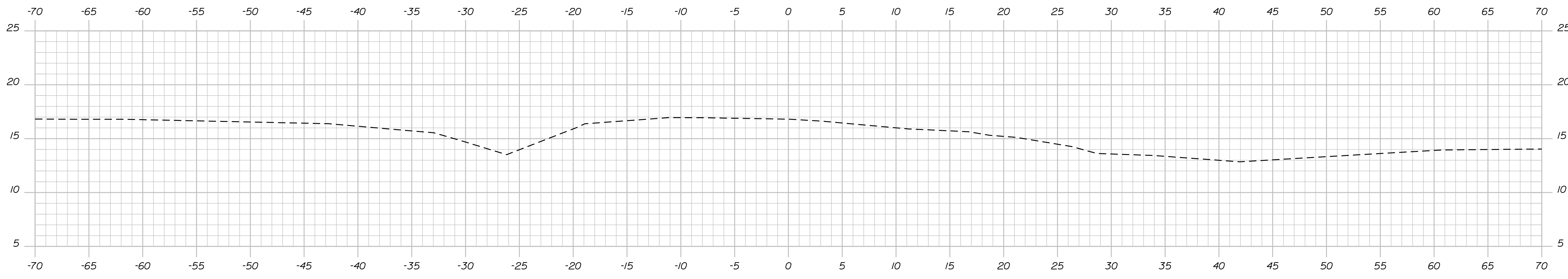
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10+50.00



10+25.00



10+00.00

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
018811.00  
WIN 018811.00  
HIGHWAY PLANS

PROJ. MANAGER: L. HAMILTON  
DESIGN DETAILED: T. WOLFE  
CHECKED/REVIEWED: T. WOLFE / N. MORGAN  
DESIGN DETAILED: M. STEELE  
SIGNATURE: \_\_\_\_\_  
P.E. NUMBER: \_\_\_\_\_  
DATE: \_\_\_\_\_

DATE	BY	PROJ. MANAGER	DESIGN DETAILED	CHECKED/REVIEWED	DESIGN DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
5/2019	T. WOLFE	L. HAMILTON	T. WOLFE	T. WOLFE / N. MORGAN	M. STEELE					

BRUNSWICK  
OLD BATH ROAD  
CROSS SECTIONS

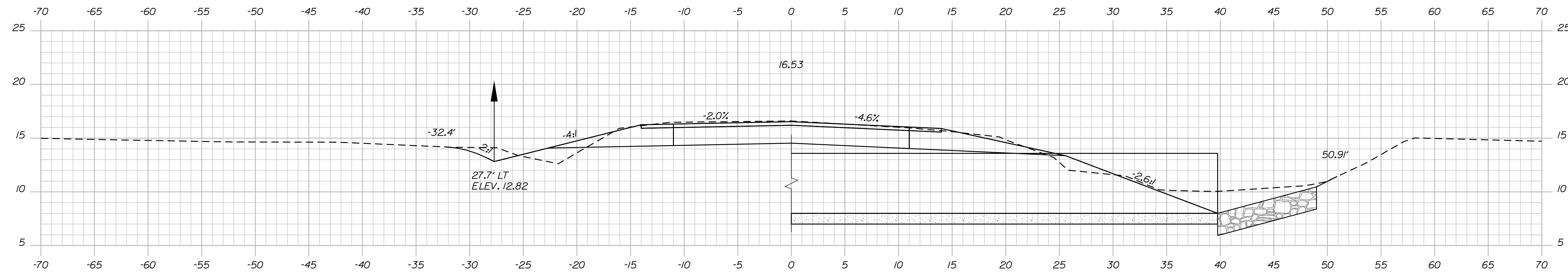
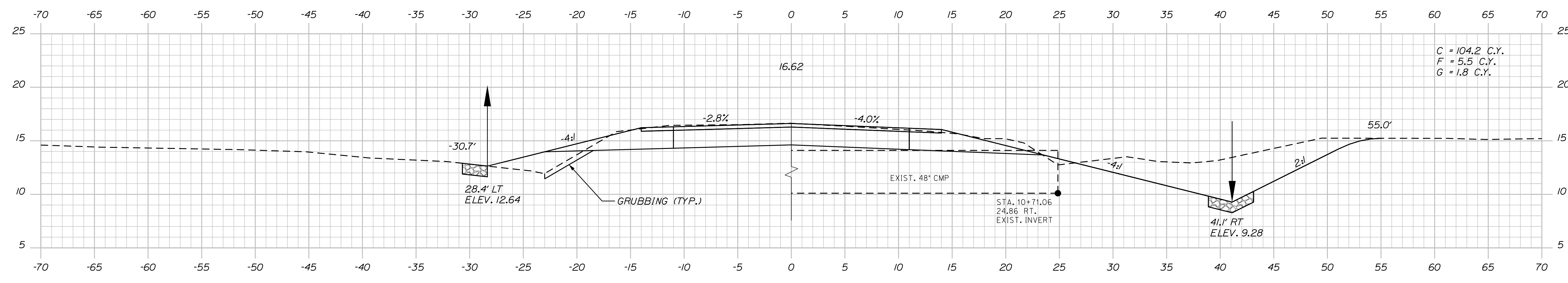
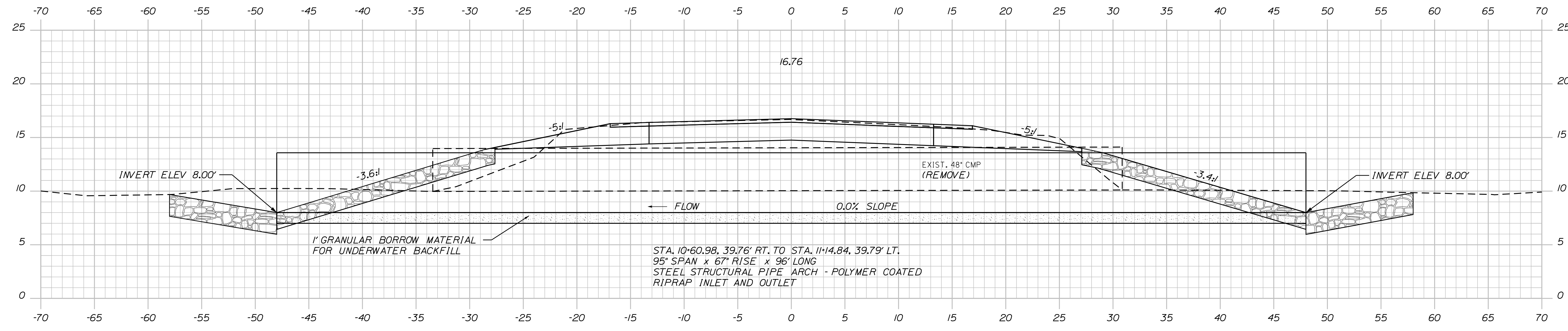
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**8**  
OF 13

Date: 5/11/2019

Username:

Division: HIGHWAY

Filename: ... \18811.00 Brunswick\Xsect.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
018811.00  
WIN  
018811.00  
HIGHWAY PLANS

DATE: 5/2019  
BY: T. WOLFE, M. STEELE  
SIGNATURE: \_\_\_\_\_  
P.E. NUMBER: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJ. MANAGER	DESIGN DETAILED	CHECKED/REVIEWED	DESIGN DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
L. HAMILTON	T. WOLFE	N. MORGAN	M. STEELE					

BRUNSWICK  
OLD BATH ROAD  
CROSS SECTIONS

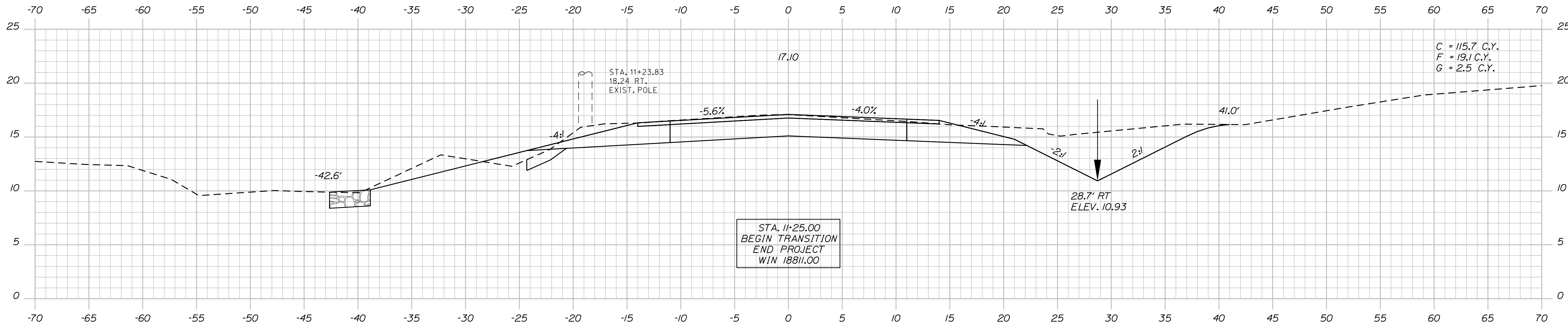
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OF 13

Date: 5/11/2019

Username:

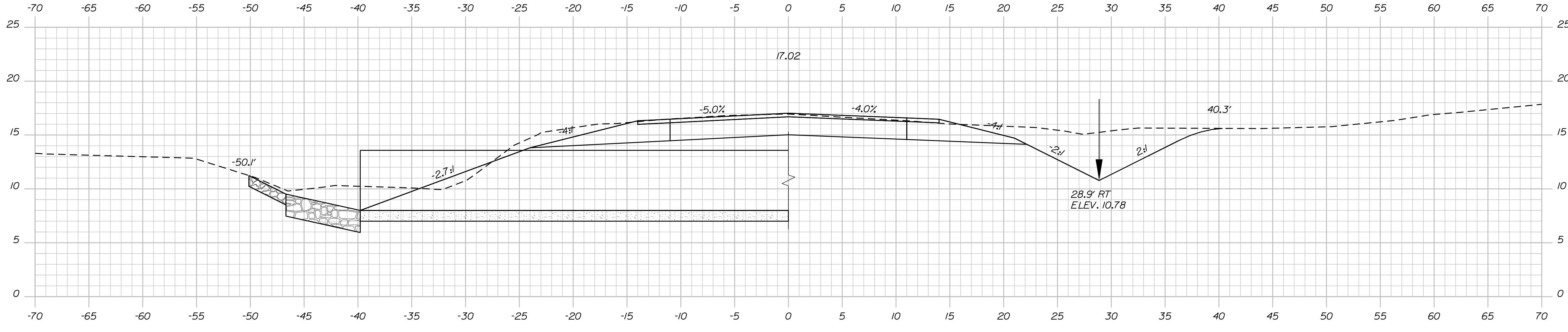
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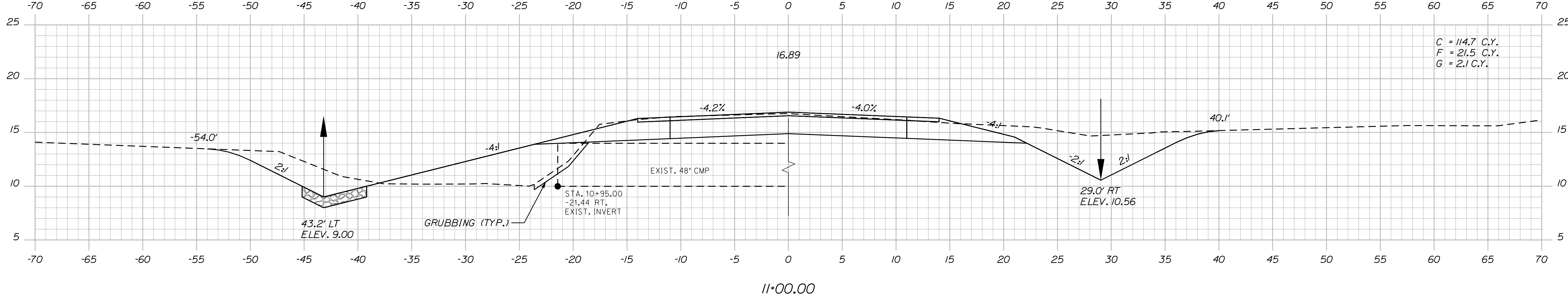


STA. 11+25.00  
 BEGIN TRANSITION  
 END PROJECT  
 WIN 18811.00

C = 115.7 C.Y.  
 F = 19.1 C.Y.  
 G = 2.5 C.Y.



11+14.84



11+00.00

C = 114.7 C.Y.  
 F = 21.5 C.Y.  
 G = 2.1 C.Y.

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 018811.00  
 WIN 018811.00  
 HIGHWAY PLANS

DESIGNED BY	T. WOLFEL	SIGNATURE
CHECKED BY	N. MORGAN	
DESIGNED DATE	5/2019	
CHECKED DATE	5/2019	
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	L. HAMILTON
DESIGNED BY	T. WOLFEL
CHECKED BY	N. MORGAN
DESIGNED DATE	5/2019
CHECKED DATE	5/2019
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

BRUNSWICK  
 OLD BATH ROAD  
 CROSS SECTIONS

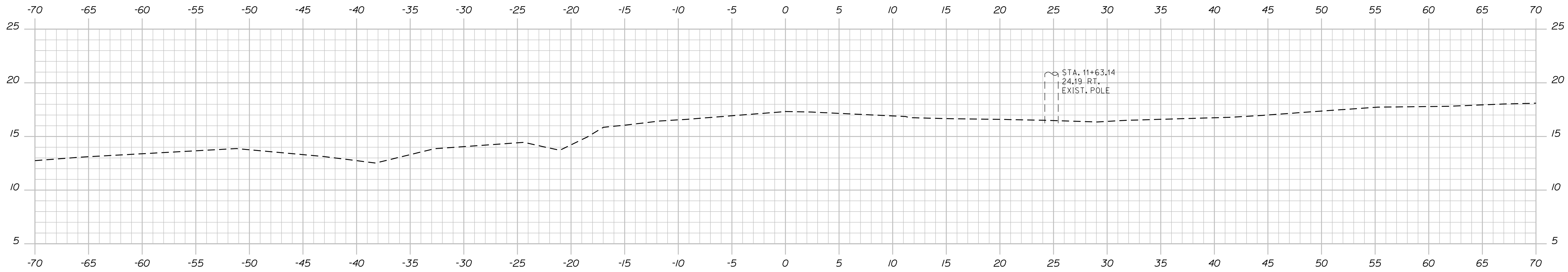
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 10  
 OF 13

Date: 5/11/2019

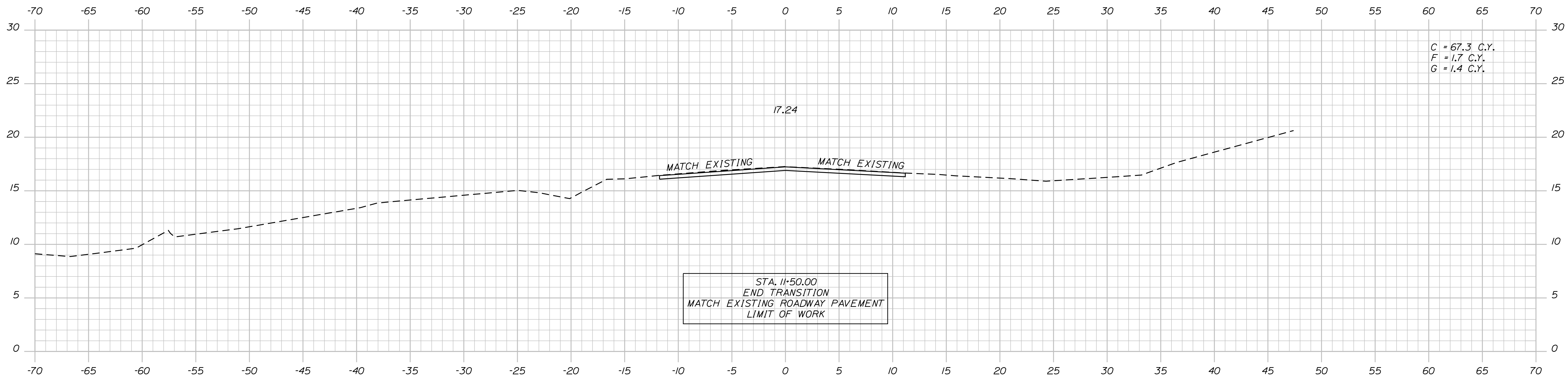
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Division: HIGHWAY

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11+75.00



11+50.00

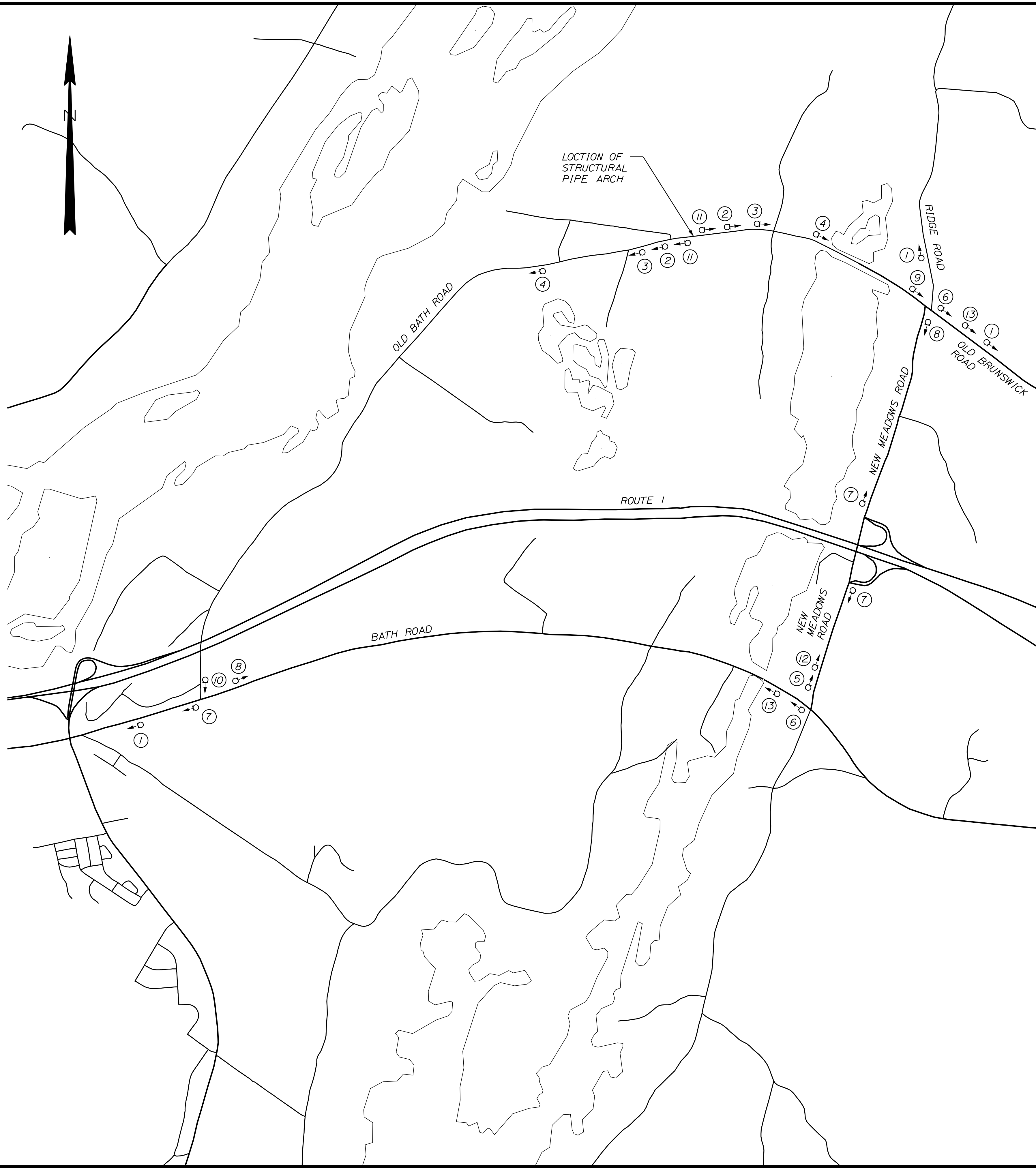
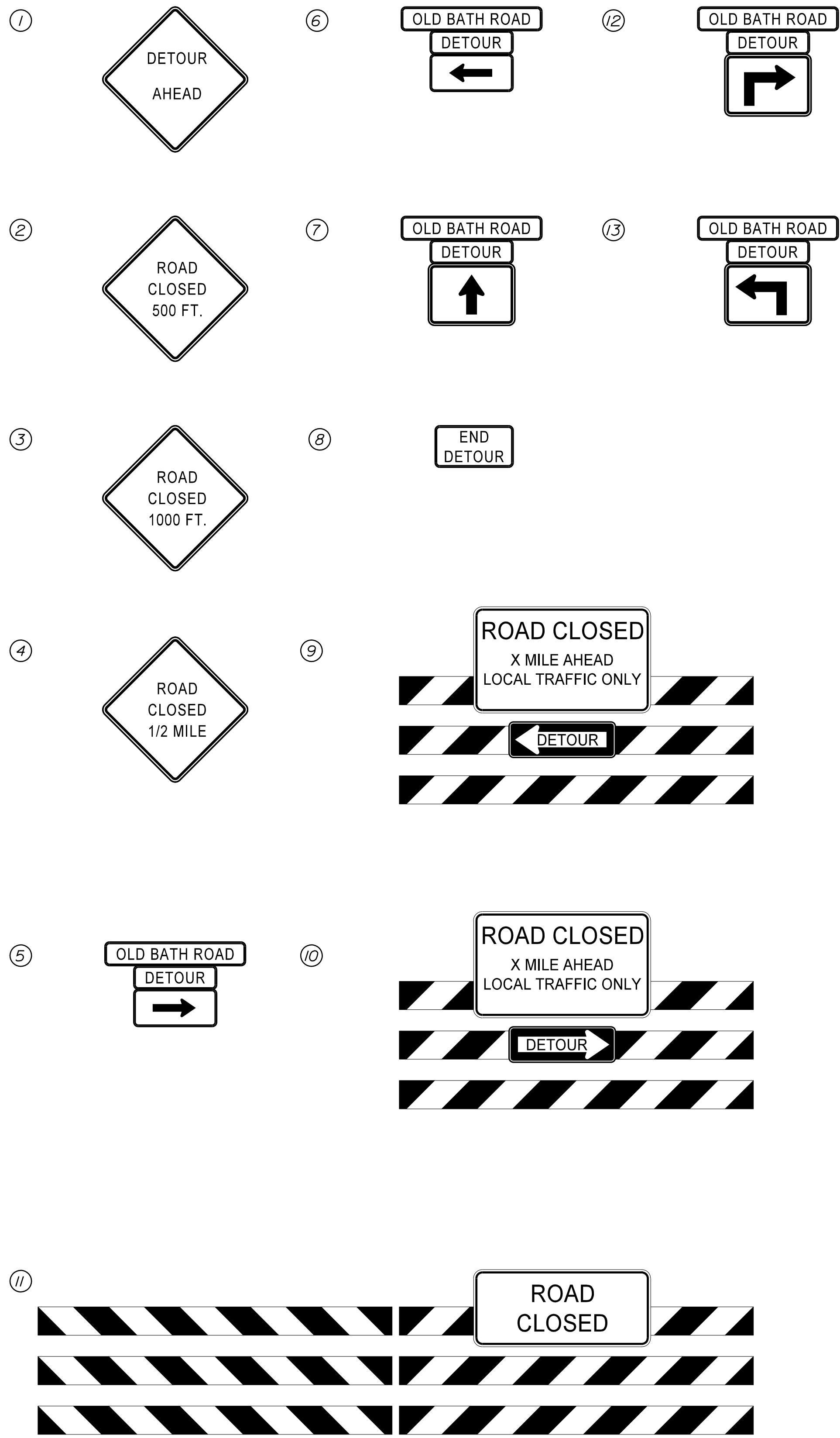
STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
018811.00  
WIN  
018811.00  
HIGHWAY PLANS

DATE: 5/2019  
BY: T. WOLFE, M. STEELE  
SIGNATURE: \_\_\_\_\_  
P.E. NUMBER: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJ. MANAGER	DESIGN DETAILED	CHECKED/REVIEWED	DESIGN DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
L. HAMILTON	T. WOLFE	N. MORGAN	M. STEELE					

BRUNSWICK  
OLD BATH ROAD  
CROSS SECTIONS

SHEET NUMBER  
**11**  
OF 13



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		018811.00	
BRUNSWICK OLD BATH ROAD		WIN 018811.00	
DETOUR PLAN		HIGHWAY PLANS	
PROJ. MANAGER	L. HAMILTON	DATE	
DESIGN/DETAILED	T. WOLFE	5/2019	
CHECKED/REVIEWED	N. MORGAN	5/2019	SIGNATURE
DESIGN/DETAILED			P.E. NUMBER
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SHEET NUMBER		12	
		OF 13	

Town, County, State	_____
Approx. Property Lines	P.L.
Existing Right of Way	_____
Limits of Wrought Portion	L.O.W.P.
Control Of Access	C.O.A.
New Right of Way	_____
New Easement	_____
New Temporary Rights	_____
New R/W Within Existing R/W	_____

New R/W Along Existing R/W	_____
Building	_____
Trees	Conifer _____ Deciduous _____
Tree Line	_____
Water Edge	_____
Ledge	_____
Fence	CHAIN LINK _____ BARB WIRE _____
Sign	_____
Clearing Limit Line	CLL _____
Bush Line	_____
Rock/Boulder	_____
Flag Pole	_____
Well	_____
Mallbox	_____

PLAN LEGEND	
Existing	Proposed
Sanitary Sewer	_____
Telephone Line	_____
Electric Line	_____
Water Line	_____
Underdrain Line	_____
Gas Line	_____
Guardrail	_____
Culvert	_____
Travelled Way	_____
Ditch	_____
Catch Basin	_____
Manhole	_____
Sewer Manhole	_____
Utility Pole	_____
Fire Hydrant	_____
Curbing	_____

Cut Line	_____	Fill Line	_____
Stonewall	_____	Retaining Wall	_____
Baseline	_____	Traverse Point	_____
Monument	_____	Pipe Found	_____
Iron Rod Found	_____		
Replacement Pin Set	_____		

STATE OF MAINE  
REGISTRY OF DEEDS

COUNTY \_\_\_\_\_

RECEIVED \_\_\_\_\_

at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and recorded in \_\_\_\_\_

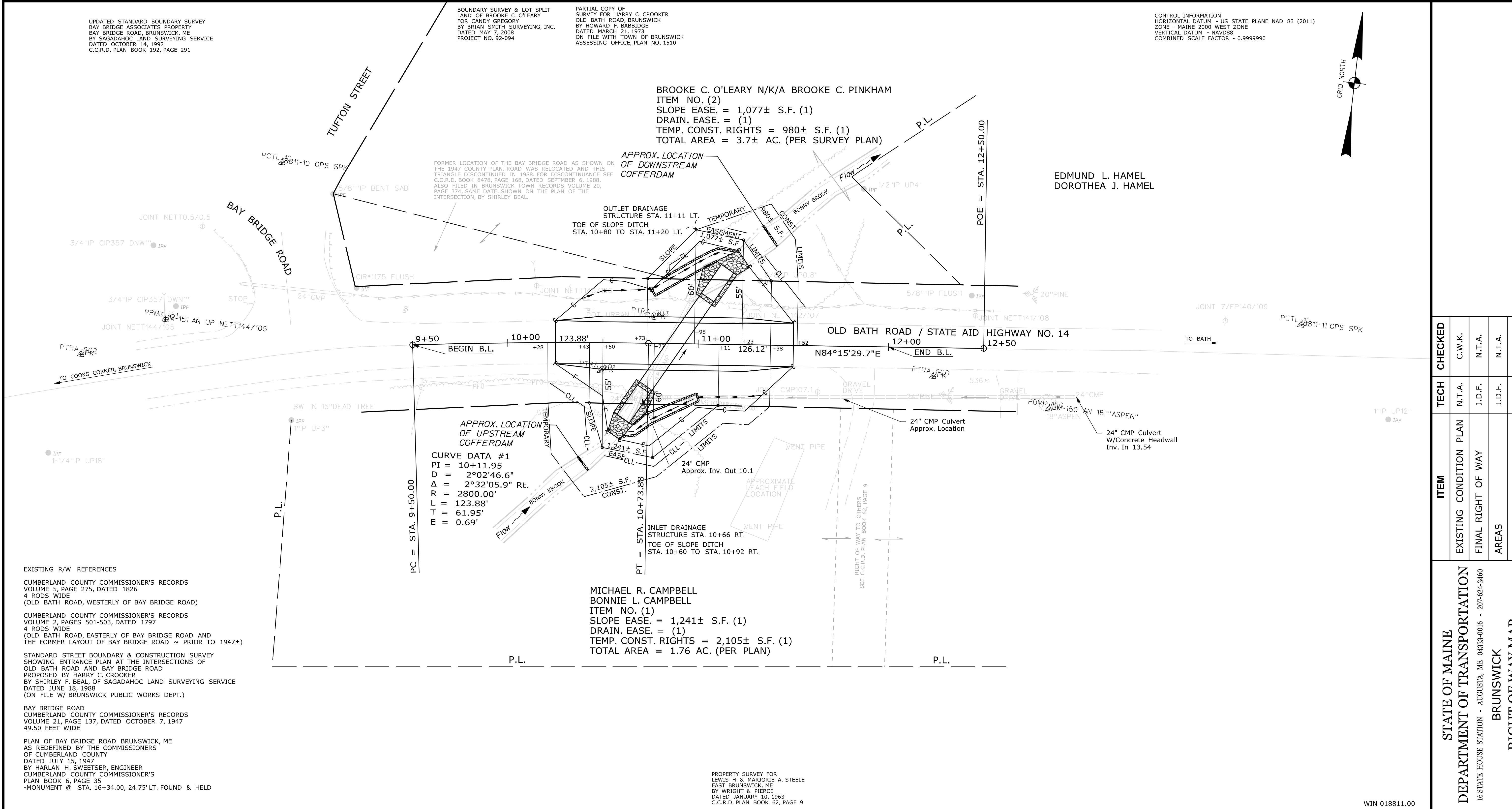
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Attest: \_\_\_\_\_ REGISTER

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJACENT PROPERTY OWNERS.

HORIZONTAL DATUM - US STATE PLANE NAD 83 (2011)  
ZONE - MAINE 2000 WEST ZONE  
VERTICAL DATUM - NAVD88  
COMBINED SCALE FACTOR - 0.9999990

Scale of Feet



Date: 4/2/2019

Username: Cuy.Ladd

Division: ROW

Filename: ... \00\ROW\WSTA\013\_RWP\PLAN1.dgn

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	N.T.A.	C.W.K.
FINAL RIGHT OF WAY	J.D.F.	N.T.A.
AREAS	J.D.F.	N.T.A.

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

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

BRUCE VAN NOTE  
COMMISSIONER  
JOYCE NOEL TAYLOR  
CHIEF ENGINEER

DATE \_\_\_\_\_

To the best of my knowledge and belief, this map constitutes an accurate graphical representation of the Highway Right of Way lines shown hereon. Other boundary lines, including lines between abutters, are approximate and for general reference only. See sheet 2 of this plan set for reference coordinates.

STATE AID HIGHWAY NO. 14  
OLD BATH ROAD  
BRUNSWICK CUMBERLAND COUNTY  
STATE PROJECT NO. 18811.00

MARCH 2019  
SCALE 1" = 25'

RIGHT-OF-WAY MAP  
SHEET 1 OF 2

D.O.T. FILE NO. 3-638

SHEET NUMBER  
**13**  
OF 13