



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Janet T. Mills
GOVERNOR

Bruce A. Van Note
COMMISSIONER

February 26, 2024
Subject: Large Culvert replacements
State WINs: 023697.00 & 023755.00
Location: **Oakfield & Smyrna**
Amendment No. 1

Dear Sir/Ms.:

For your information and review:

The shop drawings for the State supplied box culverts have been posted to the MaineDOT web site;
<https://www.maine.gov/mdot/contractors/>

Please make the following changes to the Bid Documents:

In the Bid Book:

REMOVE pages 17 – 21, Proposal Schedule of Items, 5 pages, dated 1/30/2024, and **REPLACE** with the attached Proposal Schedule of Items, 5 pages, dated 2/15/2024.

In the Plan Set:

For WIN 023697.00 Oakfield, **REMOVE** the entire plan set, 14 sheets, and **REPLACE** with the attached plan set, 14 sheets.

For WIN 023755.00 Smyrna, **REMOVE** the entire plan set, 14 sheets, and **REPLACE** with the attached plan set, 14 sheets.

The following questions have been received:

Question: On the schedule of items for the Oakfield & Smyrna large culvert replacements listed above, item 409.15 Bituminous tack coat – applied calls for a total quantity of 255 gallons. This number seems high in relation to the amount of pavement being placed. Can you confirm the quantity, please?

Response: Please see the attached, revised Proposal Schedule of Items, dated 2/15/2024.

Question: The plans are posted for the Oakfield site, but the Smyrna plan set does not appear to be uploaded.

Response: The plan set for Smyrna 23755.00 has been posted to the MaineDOT web site.

Question: The MDOT website shows the plan set for the 023697.00 Oakfield project but doesn't have the 023755.00 Smyrna project.

Response: Please see previous response.

Question: Are there shop drawings available for the boxes to calculate weight?

Response: Shop drawings for both projects have been posted to the MaineDOT web site.

Question: The 023697.00 Oakfield project shows 1.5" surface and 2.5" base pavement, but special provision section 403 shows 1.5" surface and 3.5" base pavement. Which may conflict the schedule of items.

Response: The 403 special provisions is correct. Please note the two projects are requiring different total pavement depths. 023697.00 - Oakfield road project is requiring total pavement depth of 4" (1.5" surface & 2.5" base). 023755.00 - Smyrna, Route 2, project is requiring a total pavement depth of 5" (1.5" surface & 3.5" base).

Consider these changes and information prior to submitting your bid on **March 6, 2024**.

Sincerely,



George M. A. Macdougall P.E.
Contracts & Specifications Engineer

Type text here

2/15/2024

Maine Department of Transportation

Proposal Schedule of Items

Page 1 of 5

Proposal ID: 023697.00

Project(s): 023697.00, 023755.00

SECTION: 1 HIGHWAY ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	203.20 COMMON EXCAVATION	770.000 CY	_____	 _____	_____	 _____
0020	203.25 GRANULAR BORROW	220.000 CY	_____	 _____	_____	 _____
0030	203.33 SPECIAL FILL	85.000 CY	_____	 _____	_____	 _____
0040	206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	60.000 CY	_____	 _____	_____	 _____
0050	304.16 AGGREGATE BASE COURSE - TYPE C	705.000 CY	_____	 _____	_____	 _____
0060	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	75.000 T	_____	 _____	_____	 _____
0070	403.213 HOT MIX ASPHALT 12.5 MM BASE	155.000 T	_____	 _____	_____	 _____
0080	409.15 BITUMINOUS TACK COAT - APPLIED	25.000 G	_____	 _____	_____	 _____
0090	502.21 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	55.000 CY	_____	 _____	_____	 _____
0100	502.565 CONCRETE FILL	15.000 CY	_____	 _____	_____	 _____
0110	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED 023755.00	7,000.000 LB	_____	 _____	_____	 _____
0120	503.13 REINFORCING STEEL, PLACING	7,000.000 LB	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023697.00

Project(s): 023697.00, 023755.00

SECTION: 1 HIGHWAY ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0130	508.13 SHEET WATERPROOFING MEMBRANE 023697.00	LUMP SUM	LUMP	SUM	_____	_____
0140	508.13 SHEET WATERPROOFING MEMBRANE 023755.00	LUMP SUM	LUMP	SUM	_____	_____
0150	511.07 COFFERDAM: 023697.00 - DOWNSTREAM	LUMP SUM	LUMP	SUM	_____	_____
0160	511.07 COFFERDAM: 023697.00 - UPSTREAM	LUMP SUM	LUMP	SUM	_____	_____
0170	511.07 COFFERDAM: 023755.00 - DOWNSTREAM	LUMP SUM	LUMP	SUM	_____	_____
0180	511.07 COFFERDAM: 023755.00 - UPSTREAM	LUMP SUM	LUMP	SUM	_____	_____
0190	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES 023697.00	LUMP SUM	LUMP	SUM	_____	_____
0200	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES 023755.00	LUMP SUM	LUMP	SUM	_____	_____
0210	534.701 PRECAST STRUCTURAL CONCRETE ARCH, STATE SUPPLIED 023755.00	LUMP SUM	LUMP	SUM	_____	_____
0220	534.7101 PRECAST CONCRETE BOX CULVERT - STATE SUPPLIED 023697.00	LUMP SUM	LUMP	SUM	_____	_____
0230	605.09 6 INCH UNDERDRAIN TYPE B	170.000 LF	_____	_____	_____	_____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023697.00

Project(s): 023697.00, 023755.00

SECTION: 1 HIGHWAY ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0240	606.36 GUARDRAIL REMOVED AND RESET	275.000 LF	_____	 _____	_____	 _____
0250	610.203 FEATURE ROCKS	12.000 EA	_____	 _____	_____	 _____
0260	610.210 STREAM CHANNEL ROCK	50.000 CY	_____	 _____	_____	 _____
0270	610.213 VOID FILLED RIPRAP	250.000 CY	_____	 _____	_____	 _____
0280	613.319 EROSION CONTROL BLANKET	680.000 SY	_____	 _____	_____	 _____
0290	615.07 LOAM	35.000 CY	_____	 _____	_____	 _____
0300	618.14 SEEDING METHOD NUMBER 2	6.000 UN	_____	 _____	_____	 _____
0310	619.12 MULCH	6.000 UN	_____	 _____	_____	 _____
0320	620.58 EROSION CONTROL GEOTEXTILE	450.000 SY	_____	 _____	_____	 _____
0330	627.73 4 INCH YELLOW PAVEMENT MARKING LINE	380.000 LF	_____	 _____	_____	 _____
0340	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	380.000 LF	_____	 _____	_____	 _____
0350	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	760.000 LF	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 023697.00

Project(s): 023697.00, 023755.00

SECTION: 1 HIGHWAY ITEMS

Alt Set ID: Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0360	629.05 HAND LABOR, STRAIGHT TIME	40.000 HR	_____	 _____	_____	 _____
0370	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	40.000 HR	_____	 _____	_____	 _____
0380	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	80.000 HR	_____	 _____	_____	 _____
0390	639.20 FIELD OFFICE TYPE C	1.000 EA	_____	 _____	_____	 _____
0400	652.312 TYPE III BARRICADE	8.000 EA	_____	 _____	_____	 _____
0410	652.33 DRUM	20.000 EA	_____	 _____	_____	 _____
0420	652.34 CONE	40.000 EA	_____	 _____	_____	 _____
0430	652.35 CONSTRUCTION SIGNS	960.000 SF	_____	 _____	_____	 _____
0440	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	90.000 CD	_____	 _____	_____	 _____
0450	652.38 FLAGGER	450.000 HR	_____	 _____	_____	 _____
0460	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM	_____	 LUMP SUM	_____	 _____
0470	659.10 MOBILIZATION	LUMP SUM	_____	 LUMP SUM	_____	 _____

2/15/2024

Maine Department of Transportation

Proposal Schedule of Items

Page 5 of 5

Proposal ID: 023697.00

Project(s): 023697.00, 023755.00

Section: 1

Total:

_____!

Total Bid:

_____!

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



OAKFIELD AROOSTOOK COUNTY

RIDGE ROAD
SPAULDING LAKE BRIDGE
BRIDGE NO. 6638

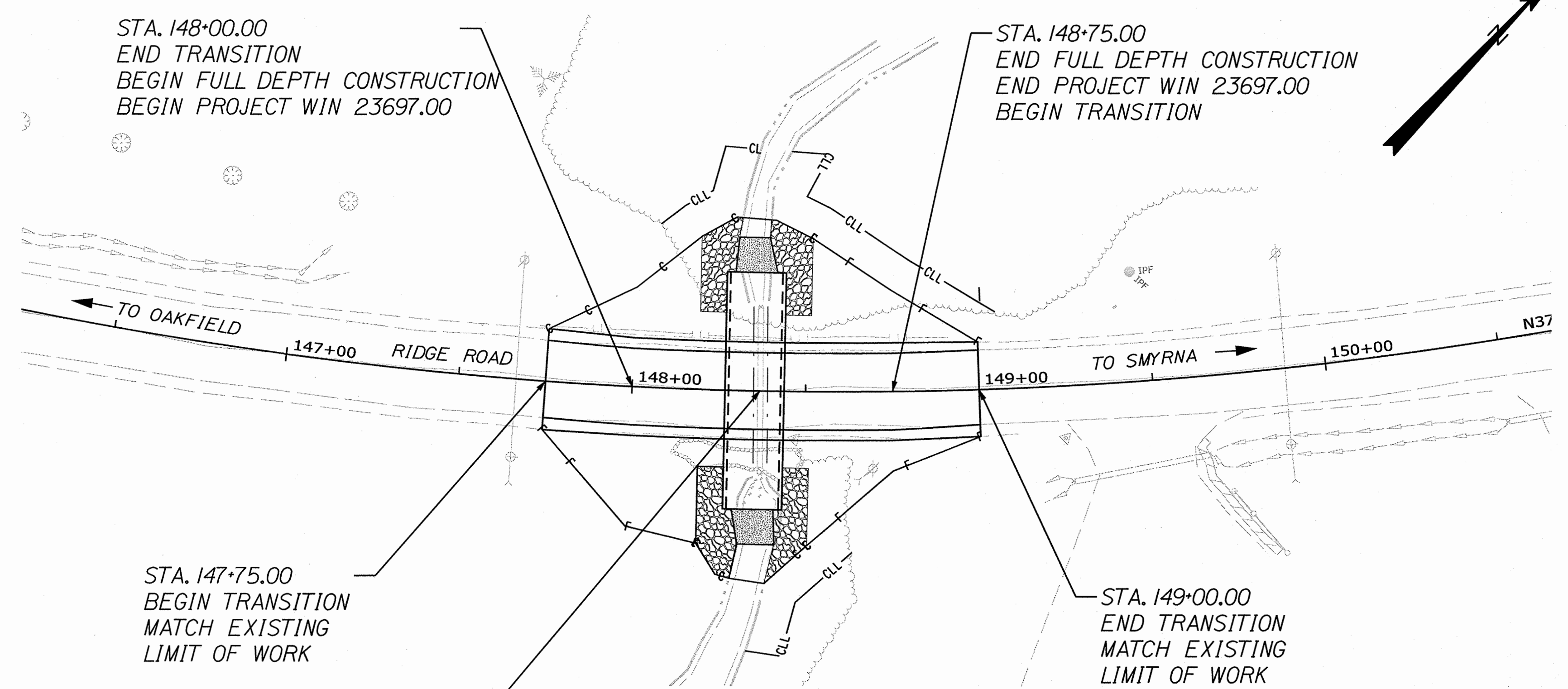
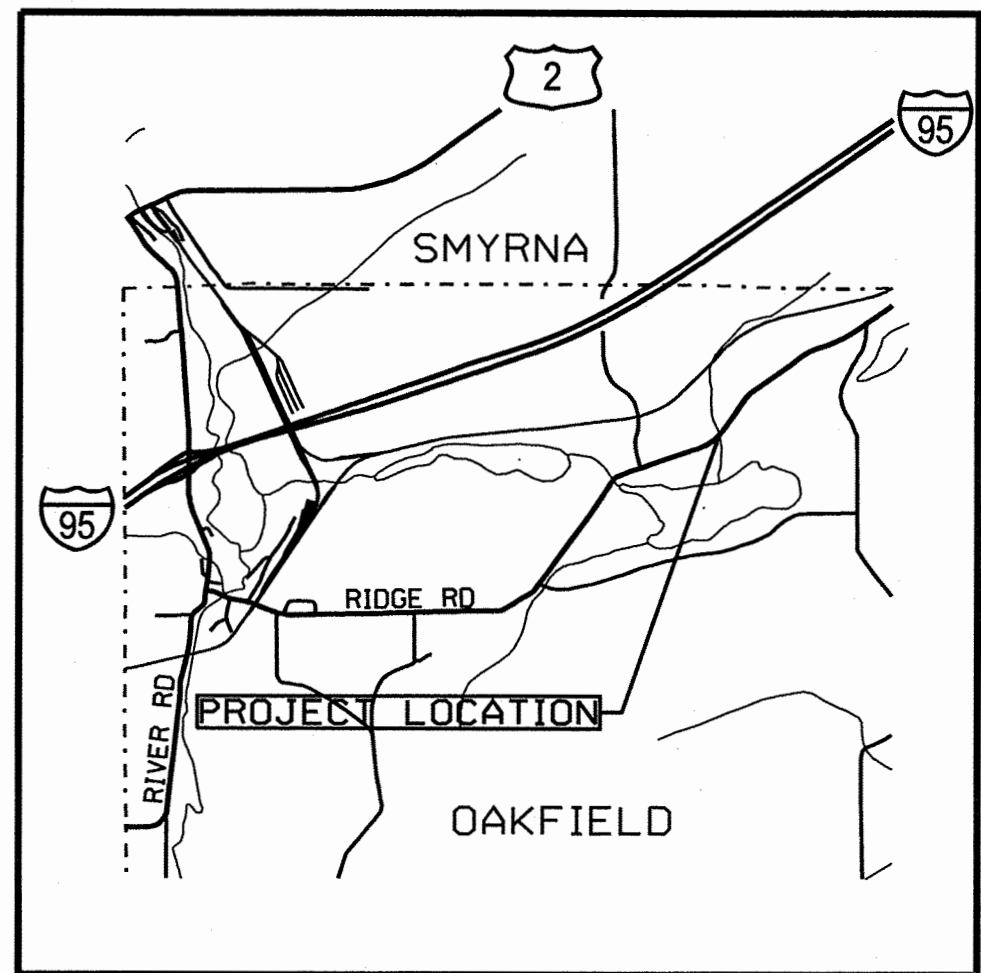
STATE PROJECT NO. 23697.00

PROJECT LENGTH : 0.01 MILES

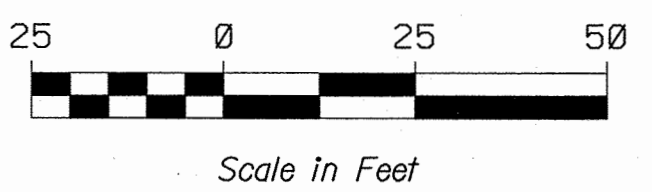
PLAN LEGEND	
Town, County, State	-----
Property Lines	-----
R/W Lines-Existing	-----
R/W Lines-Proposed	-----
Culvert-Existing	-----
Culvert Proposed	-----
Curbing Existing	-----
Curbing Proposed	-----
Type 1	-----
Type 3	-----
Type 5	-----
Outline of Bodies of Water	-----
Exposed Bedrock	-----
Buildings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

INDEX OF SHEETS	
Description	Sheet No.
Title Sheet	1
Typical Sections	2
Estimated Quantities and General Notes	3
Special Details	4
Streambed Details	5
Boring Location Plan & Interpretive Subsurface Profile	6
Boring Logs	7
Plan and Profile	8
Cross Sections	9-11
Road Closure Plan	12
Sign Summary	13
Right of Way Map	14

TRAFFIC DATA	
Current (2023) AADT	330
Future (2043) AADT	360
DHV - % of AADT	12%
Design Hour Volume	43
% Heavy Trucks (AADT)	9%
% Heavy Trucks (DHV)	5%
Directional Distribution (DHV)	63%
18 kip Equivalent P 2.0	12
18 kip Equivalent P 2.5	11
Design Speed (mph)	45
Functional Class	Minor Collector
Highway Corridor Priority	4



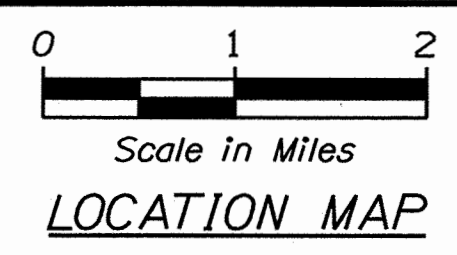
PROPOSED CULVERT
STA. 148+35.29
15'-0" SPAN x 7'-0" RISE x
68'-0" LONG PRECAST
CONCRETE BOX CULVERT

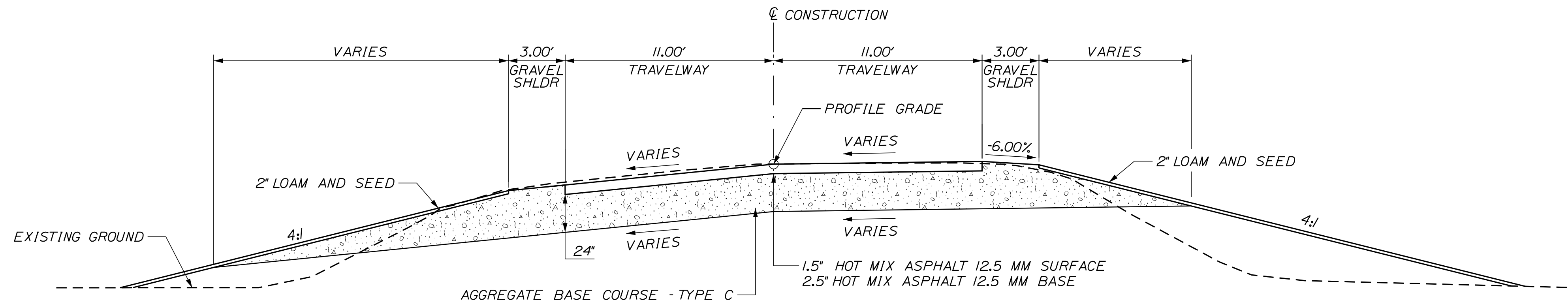


PROJECT LOCATION:	OAKFIELD, RIDGE ROAD, LOCATED 1.2 MILES EAST OF SPAULDING LAKE ROAD INTERSECTION
PROGRAM AREA:	REGIONAL PROGRAM
SCOPE OF WORK:	LARGE CULVERT REPLACEMENT

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED COMMISSIONER	DATE 2-23-24
STATE OF MAINE DEPARTMENT OF TRANSPORTATION PROFESSIONAL ENGINEER Liam B. Kellogg 15070 01-25-2024	SIGNATURE ROGER SOUCY 15070 01-25-2024	P.E. NUMBER 15070 01-25-2024
PROJECT INFORMATION	PROGRAM HIGHWAY	PROJECT MANAGER ROGER SOUCY
	DESIGNER L. KALLOCH	CONSULTANT CMA ENGINEERS, INC.
	PROJECT RESIDENT	CONTRACTOR
	PROJECT COMPLETION DATE	
WIN 23697.00 STATE PROJECT NO. 23697.00		
OAKFIELD RIDGE ROAD		
TITLE SHEET		
SHEET NUMBER		
1		
OF 14		

Date: 1/17/2024
Username: common
Division: HIGHWAY
Filename: ... \Consultant\001_Title .dgn





AGGREGATE BASE COURSE - TYPE C		
SHOULDER 68.40 CY/100 LF	TRAVEL LANE 162.96 CY/100 LF	SHOULDER 46.95 CY/100 LF
STATION TO STATION 148+00 TO 148+75	STATION TO STATION 148+00 TO 148+75	STATION TO STATION 148+00 TO 148+75

ROADWAY TYPICAL SECTION
SUPERELEVATED
N.T.S.

SUPERELEVATION TABLE		
LT. TRAVEL LANE	STATION	RT. TRAVEL LANE
	BEGIN	
MATCH	147+75	MATCH
-9.0%	148+00	0.6%
-9.5%	148+25	1.0%
-10.0%	148+50	1.3%
-10.5%	148+75	1.7%
MATCH	149+00	MATCH

NOTES:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2 INCH LOAM OR DIRTY BORROW DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
3. STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
23697.00
WIN
23697.00
BRIDGE NO. 6638
HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	ROGER SOUCY	BY	DATE
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUBIET	
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

OAKFIELD
RIDGE ROAD
TYPICAL SECTIONS

SHEET NUMBER

2

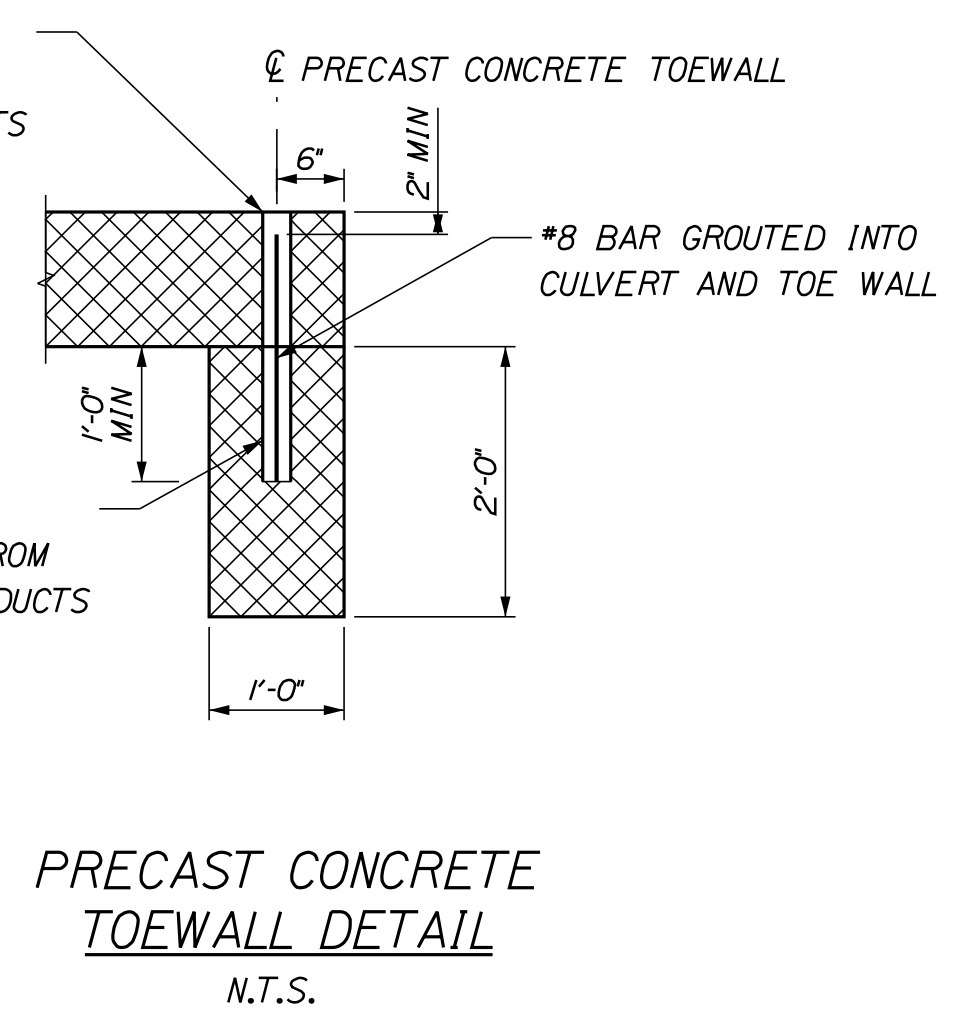
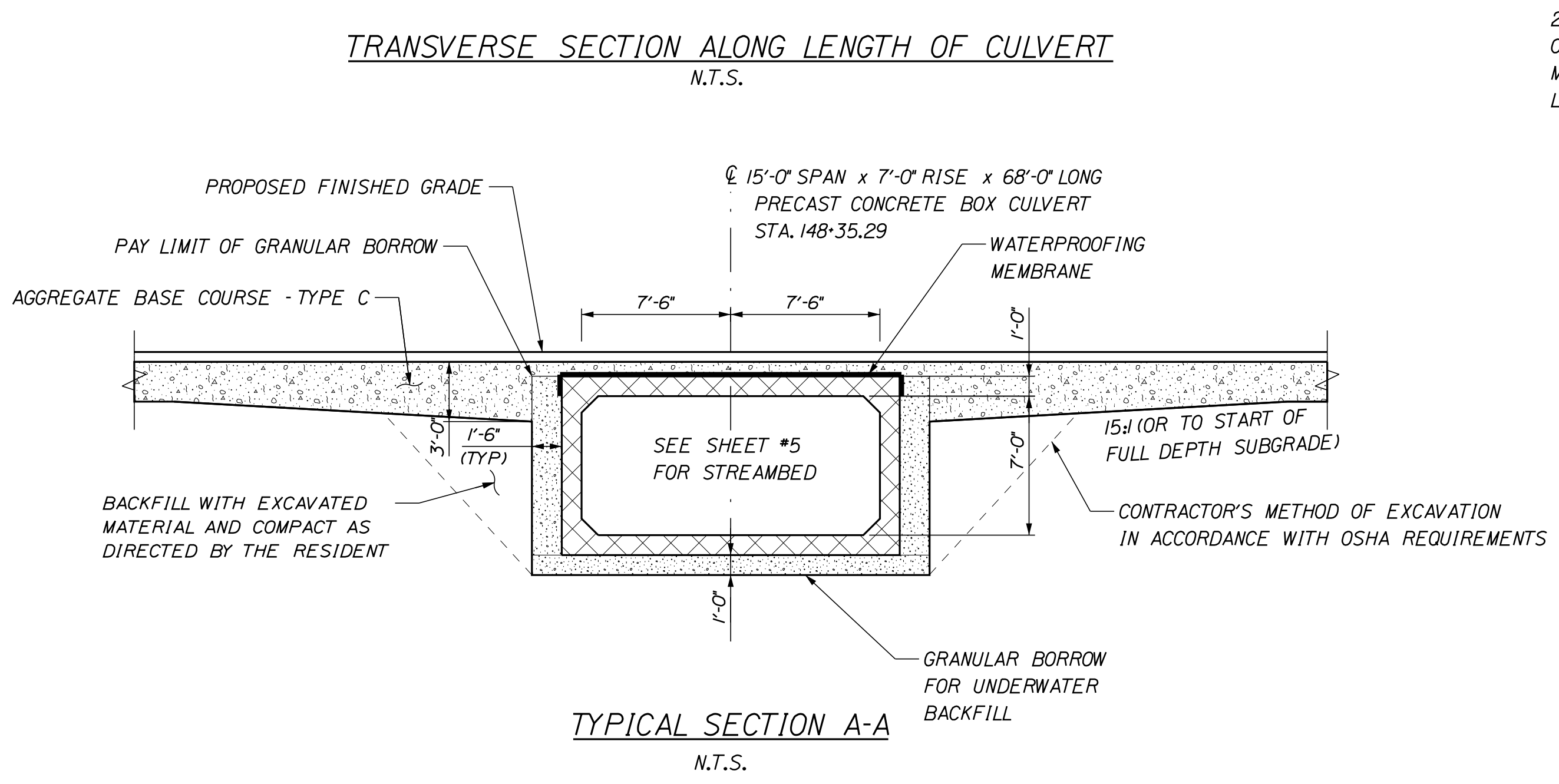
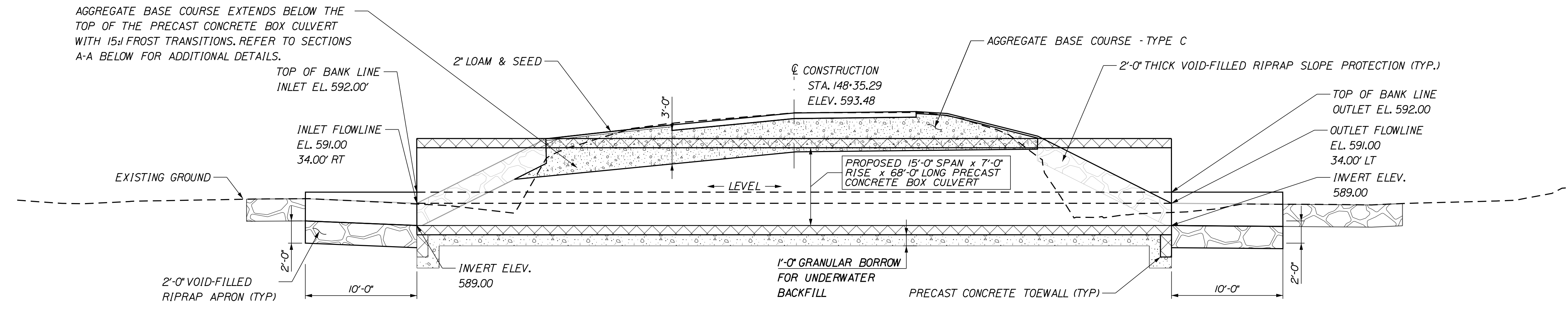
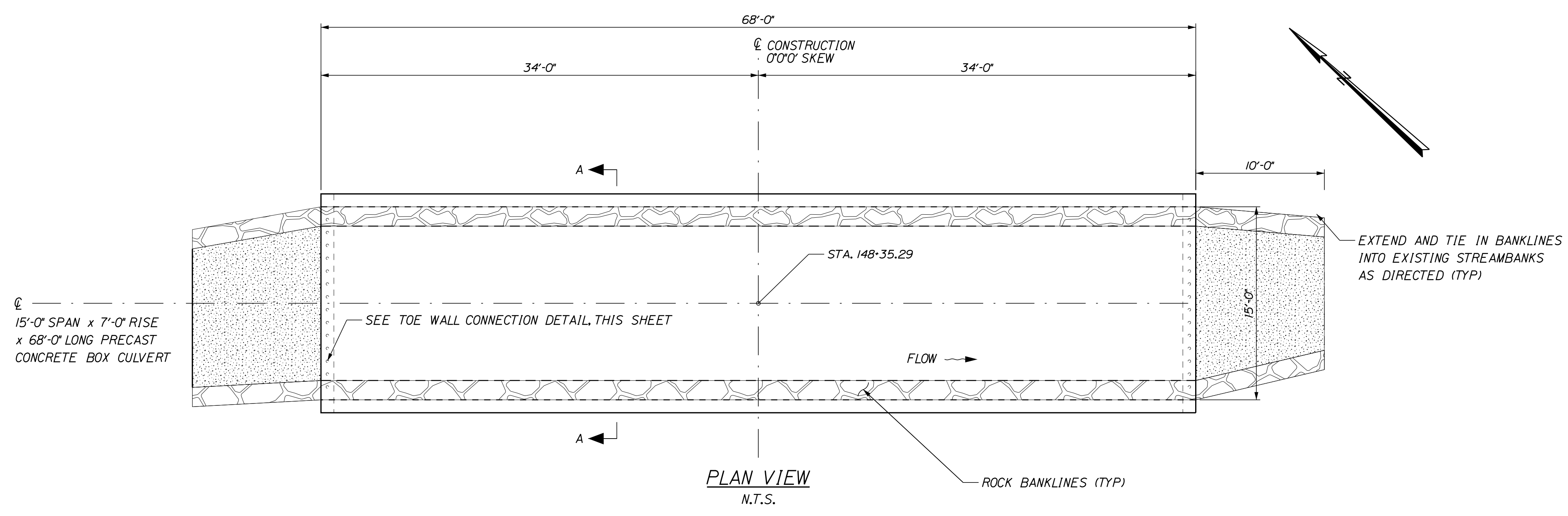
OF 14

Date: 1/18/2024

Username: common

Division: HIGHWAY

Filename: ... \005_SpecialDetail.dgn



PRECAST CONCRETE BOX CULVERT NOTES:

1. THE PRECAST UNITS SHALL BE DESIGNED TO CARRY CONSTRUCTION LOADINGS WITH A MINIMUM FILL COVER OF 18 INCHES OVER THE TOP OF THE UNITS.
2. INSTALL STANDARD MEMBRANE WATERPROOFING OVER THE TOP AND TO 12 INCHES DOWN THE EXTERIOR SIDES OF THE PRECAST UNITS.
3. THE PRECAST CONCRETE BOX CULVERT SHALL BE BEDDED ON A 1-FOOT LAYER OF COMPACTED GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL.
4. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM END OF THE PRECAST CONCRETE BOX CULVERT TO ALLOW FOR THE CONSTRUCTION OF THE PRECAST CONCRETE BOX CULVERT IN THE DRY.
5. RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET, SEE PLAN AND PROFILE FOR LOCATIONS.
6. THE PRECAST CONCRETE BOX CULVERT SHALL BE LINED WITH 2-FEET OF SPECIAL FILL IN ACCORDANCE WITH SPECIAL PROVISION 203.
7. A 'CLAMHELL' PRECAST CONCRETE BOX CULVERT SHALL BE USED.
8. CONSTRUCTION, HANDLING AND ASSEMBLY OF THE PRECAST UNIT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS APPLICABLE.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		23697.00		WIN		23697.00		HIGHWAY PLANS	
OAKFIELD		RIDGE ROAD		SPECIAL DETAILS		SHEET NUMBER		4		OF 14	
PROJ. MANAGER		ROGER SOUCY		DESIGN-DETAILED		L. KALLOCH		CHECKED-REVIEWED		S. FORTIER	
DATE		BY		DESIGN-DETAILED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 3		REVISIONS 4	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 5		REVISIONS 6	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 7		REVISIONS 8	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 9		REVISIONS 10	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 11		REVISIONS 12	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 13		REVISIONS 14	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 15		REVISIONS 16	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 17		REVISIONS 18	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 19		REVISIONS 20	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 21		REVISIONS 22	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 23		REVISIONS 24	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 25		REVISIONS 26	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 27		REVISIONS 28	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 29		REVISIONS 30	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 31		REVISIONS 32	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 33		REVISIONS 34	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 35		REVISIONS 36	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 37		REVISIONS 38	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 39		REVISIONS 40	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 41		REVISIONS 42	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 43		REVISIONS 44	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 45		REVISIONS 46	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 47		REVISIONS 48	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 49		REVISIONS 50	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 51		REVISIONS 52	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 53		REVISIONS 54	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 55		REVISIONS 56	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 57		REVISIONS 58	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 59		REVISIONS 60	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 61		REVISIONS 62	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 63		REVISIONS 64	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 65		REVISIONS 66	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 67		REVISIONS 68	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 69		REVISIONS 70	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 71		REVISIONS 72	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 73		REVISIONS 74	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 75		REVISIONS 76	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 77		REVISIONS 78	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 79		REVISIONS 80	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 81		REVISIONS 82	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 83		REVISIONS 84	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 85		REVISIONS 86	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 87		REVISIONS 88	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 89		REVISIONS 90	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 91		REVISIONS 92	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 93		REVISIONS 94	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 95		REVISIONS 96	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 97		REVISIONS 98	
DATE		BY		DESIGN-REVIEWED		DESIGN-REVIEWED		REVISIONS 99		REVISIONS 100	

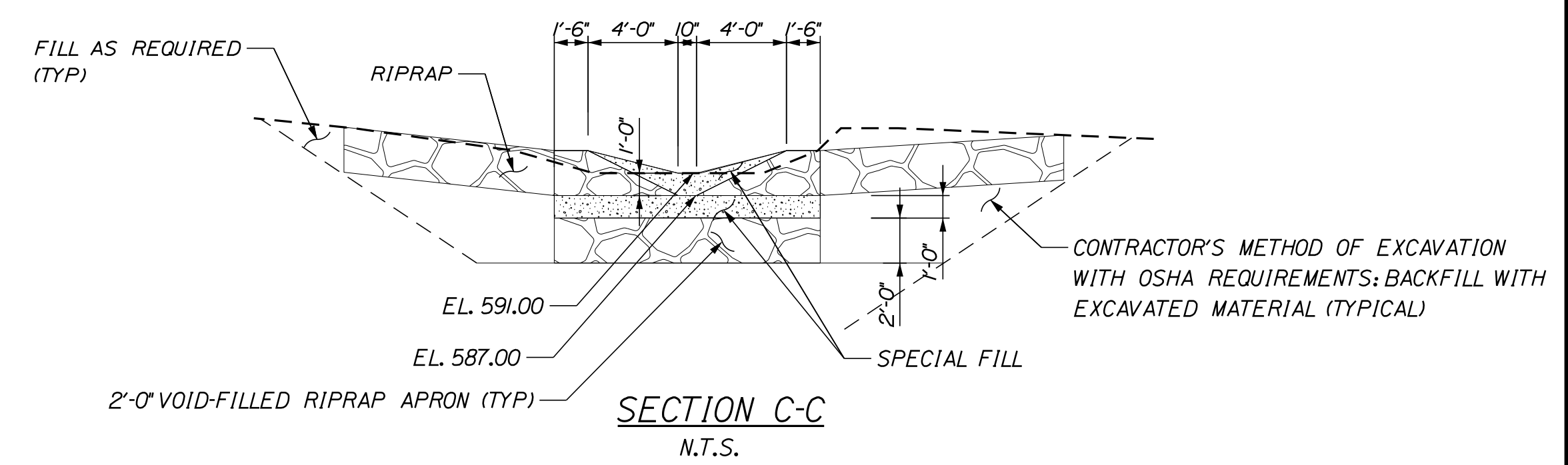
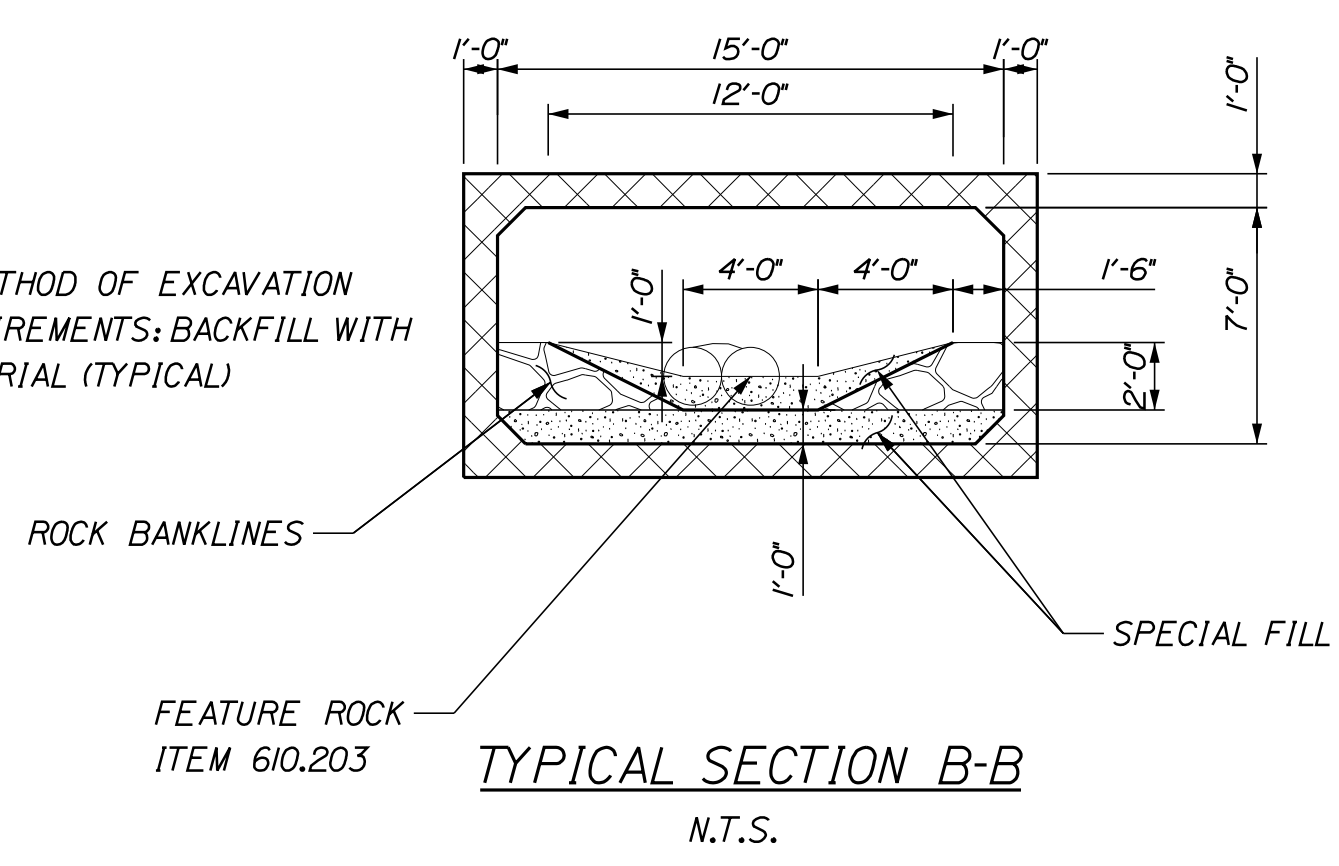
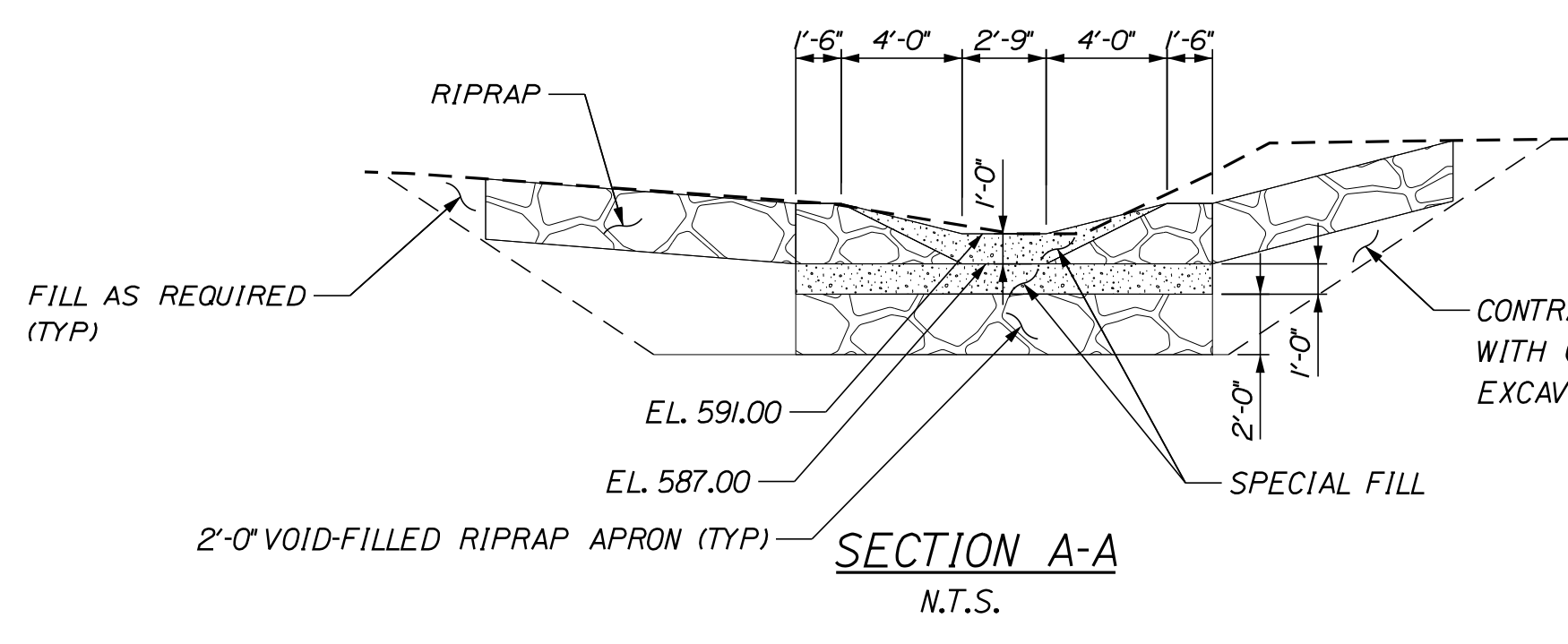
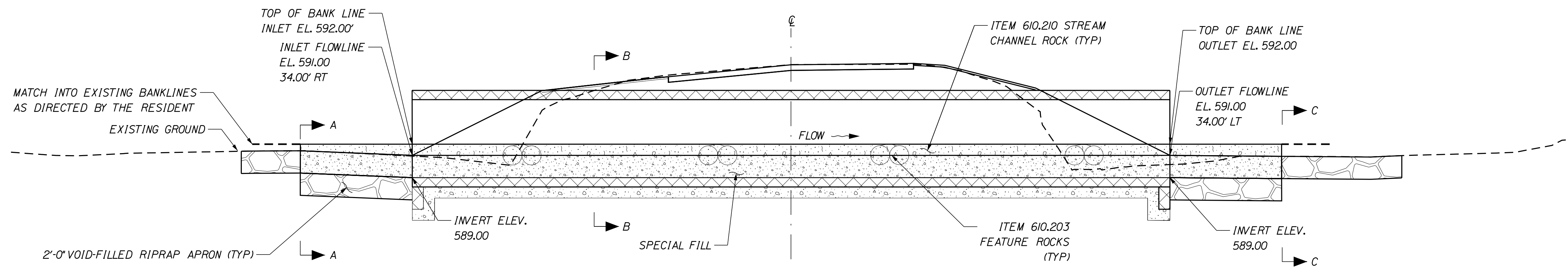
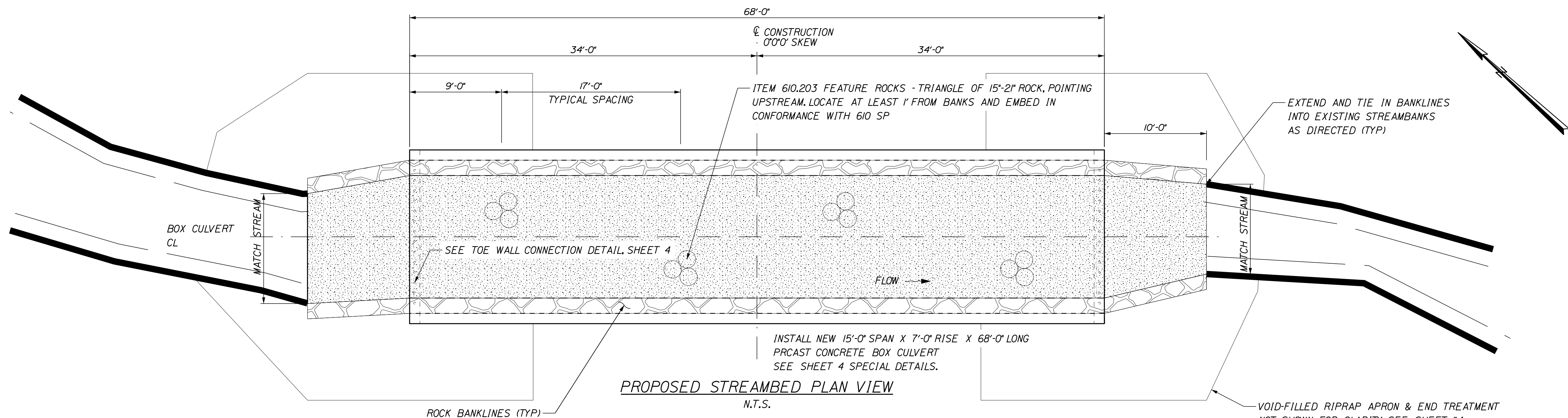
NOT TO SCALE

Date: 1/18/2024

Username: common

Division: HIGHWAY

Filename: ... \005_SpecialDetail.dgn



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 23697.00
 WIN 23697.00
 BRIDGE NO. 6638
 HIGHWAY PLANS

DATE	BY	PROJ. MANAGER	ROGER SOUCY	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS	SIGNATURE	P.E. NUMBER	DATE
	L. KALLOCH W. GORDON J. BEAUBIET						1 2 3 4			

DATE	BY	PROJ. MANAGER	ROGER SOUCY	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS	SIGNATURE	P.E. NUMBER	DATE
	L. KALLOCH W. GORDON J. BEAUBIET						1 2 3 4			

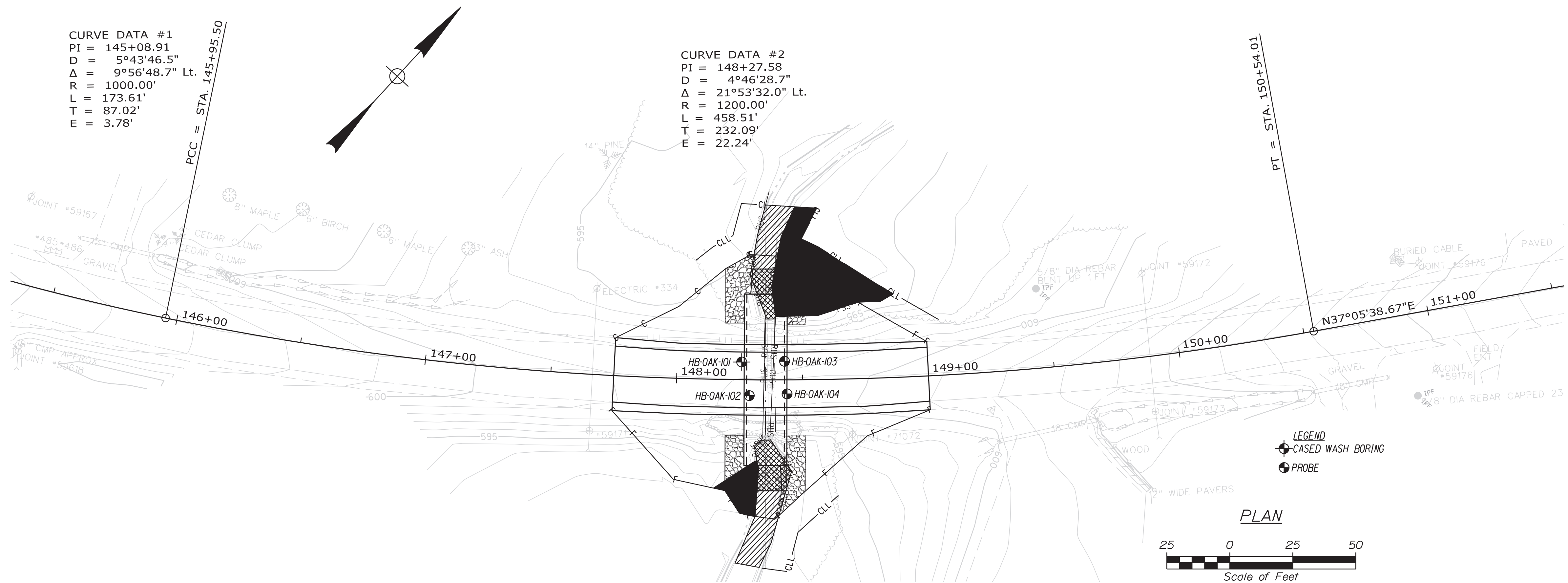
OAKFIELD
 RIDGE ROAD
STREAMBED DETAILS

SHEET NUMBER
5
 OF 14

NOT TO SCALE

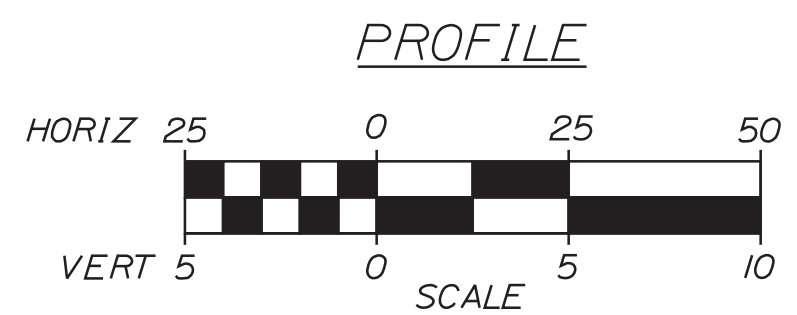
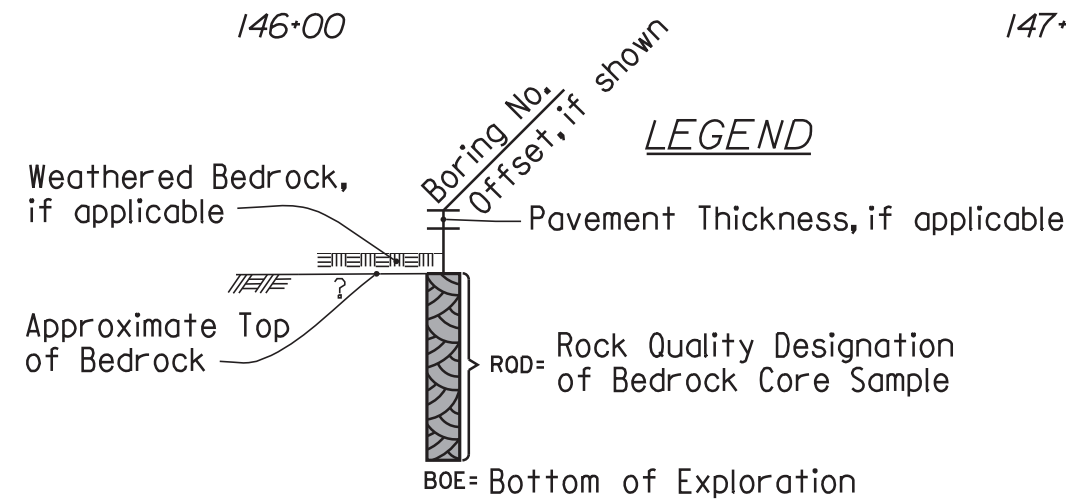
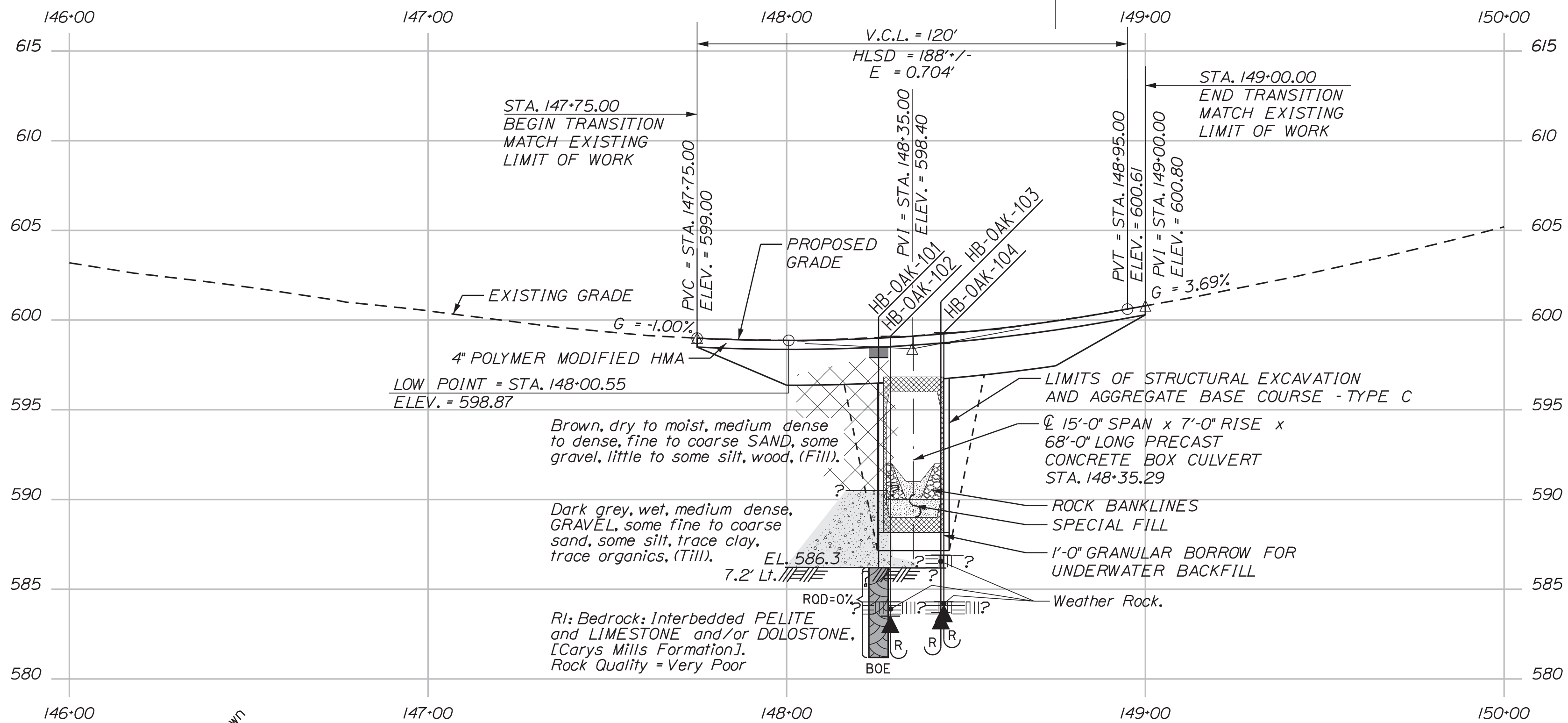
CURVE DATA #1
 PI = 145+08.91
 D = 5°43'46.5"
 Δ = 9°56'48.7" Lt.
 R = 1000.00'
 L = 173.61'
 T = 87.02'
 E = 3.78'

CURVE DATA #2
 PI = 148+27.58
 D = 4°46'28.7"
 Δ = 21°53'32.0" Lt.
 R = 1200.00'
 L = 458.51'
 T = 232.09'
 E = 22.24'

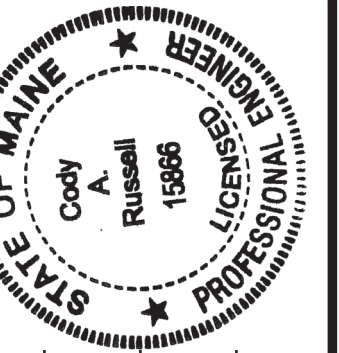


STA 148+00.00
 END TRANSITION
 BEGIN FULL DEPTH CONSTRUCTION
 BEGIN PROJECT WIN 23697.00

STA 148+75.00
 END FULL DEPTH CONSTRUCTION
 END PROJECT WIN 23697.00
 BEGIN TRANSITION



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.



PROJ. MANAGER	DATE	BY
Cody A. Russell		
CHECKED-REVIEWED	DATE	BY
T. WHITE	JAN 2024	
DESIGN DET AILED 03		
DESIGN DET AILED 03		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		
SIGNATURE	P.E. NUMBER	DATE
Cody A. Russell	15866	1/22/2024

OAKFIELD
 RIDGE ROAD
 BORING LOCATION PLAN &
 INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

6

OF 14

Maine Department of Transportation Soil/Bore Exploration Log US CUSTOMER UNITS		Project: Large Culvert Replacement on the Ridge Road Location: Oakfield, Maine		Boring No.: HB-0AK-101		
Drilling Contractor: MainDOT	Elevation (ft.): 589.5	Auger ID/OD: 5" Solid Stem	WIN: 23697.00			
Operator: Daggert/Niles/Kyle	Status: NAVD88	Sampler: Standard Split Spoon				
Logged By: C. Russell	Rig Type: CME 45C	Header Wt./Fall: 149#/30"				
Date Start/Finish: 8/15/2018 10:00-10:30	Drilling Method: Cased Wash Boring	Core Barrel: N/A				
Boring Location: 148+25.6, 7.4 Ft Lt.	Costing ID/OD: N/A	Water Level: None Observed				
Header Efficiency Factor: 0.926	Header Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rod & Chain <input type="checkbox"/>					
Definitions: S = Rock Core Sample, SS = Push-Down Field Vane Undrained Shear Strength (psf), UC = Pocket Torque Shear Strength (psf), U = Split Spoon Sample, SA = Solid Stem Auger, C = Lab Vane Undrained Shear Strength (psf), MC = Water Content, percent, M = Unsuccessful Split Spoon Sample Attempt, HSA = Hollow Stem Auger, N = Unsuccessful Compressive Strength Test, LL = Liquid Limit, U = Thin Wall Tube Sample, HCU = Heavy Core, NUC = Unsuccessful New Field SPT Blow, PL = Plasticity Limit, M = Unsuccessful Field Vane Shear Test Attempt, WH = Weight of 140lb. Hammer, PF = Pocket Penetration W/C = Weight of Rock or Castings, N = Unsuccessful Field Vane Shear Test, W = Pocket Penetration, WBL = Weight of Blow or Casting, W = Water Content, percent, C = Grain Size Analysis, G = Consolidation Test						
Sample Information		Visual Description and Remarks				
Depth (ft.)	Sample No.	Rev./Spec. (in)	Sample Depth (ft.)	Blow (1/4 in. Shear Strength) (blows/ft)	Remarks	
0					0-0.6	
10	24/13	1.00 - 3.00	8/13/13/9	26	60	SSA Brown, dry, dense, fine to coarse SAND, some gravel, little silt, (F111).
5	20	24/5	5.00 - 7.00	19	23	Brown, moist, medium dense, fine to coarse SAND, some gravel, some silt, wood, (F111).
10	30	24/13	10.00 - 12.00	7	11	4 Dark grey, wet, medium dense, GRAVEL, some fine to coarse sand, some silt, trace clay, trace organics (F111).
15	R1	60/56	13.30 - 11.30	R02 = 0%	56	56 3102 blows for 0.2 ft. Top of Bedrock at Elev. 586.3 ft. No Coating REFUSAL at 12.2 ft bgs. Roller Cored (per 10.2 ft bgs). R1 Bedrock: Interbedded FELT and Limestone and/or Gneiss (Corys Mills Formation). Rock Quality - Very Poor R1 Core Times (min:sec) 10.2-13.3 ft (4:08) 14.3-19.3 ft (4:41) 15.3-16.3 ft (8:17) 16.3-17.3 ft (4:55) 10% Recovery
20					11.3	Bottom of Exploration at 11.3 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-0AK-101						

Maine Department of Transportation Soil/Bore Exploration Log US CUSTOMER UNITS		Project: Large Culvert Replacement on the Ridge Road Location: Oakfield, Maine		Boring No.: HB-0AK-102	
Drilling Contractor: MainDOT	Elevation (ft.): 589.1	Auger ID/OD: 5" Dia.	WIN: 23697.00		
Operator: Daggert/Niles/Kyle	Status: NAVD88	Sampler: N/A			
Logged By: C. Russell	Rig Type: CME 45C	Header Wt./Fall: N/A			
Date Start/Finish: 8/15/2018 10:35-10:55	Drilling Method: Solid Stem Auger	Core Barrel: N/A			
Boring Location: 148+28.9, 6.3 Ft Rt.	Costing ID/OD: N/A	Water Level: None Observed			
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Rev./Spec. (in)	Sample Depth (ft.)	Blow (1/4 in. Shear Strength) (blows/ft)	Remarks
0					Probe, no samples or descriptions taken.
5					
10					
15					584.1 583.0 Possible Weathered ROCK. Bottom of Exploration at 15.6 feet below ground surface.
20					
25					
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-0AK-102					

Maine Department of Transportation Soil/Bore Exploration Log US CUSTOMER UNITS		Project: Large Culvert Replacement on the Ridge Road Location: Oakfield, Maine		Boring No.: HB-0AK-103	
Drilling Contractor: MainDOT	Elevation (ft.): 586.1	Auger ID/OD: 5" Dia.	WIN: 23697.00		
Operator: Daggert/Niles/Kyle	Status: NAVD88	Sampler: N/A			
Logged By: C. Russell	Rig Type: CME 45C	Header Wt./Fall: N/A			
Date Start/Finish: 8/15/2018 10:00-10:30	Drilling Method: Solid Stem Auger	Core Barrel: N/A			
Boring Location: 148+42.9, 7.4 Ft Lt.	Costing ID/OD: N/A	Water Level: None Observed			
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Rev./Spec. (in)	Sample Depth (ft.)	Blow (1/4 in. Shear Strength) (blows/ft)	Remarks
0					Probe, no samples or descriptions taken.
5					
10					586.3 Possible Weathered ROCK.
15					583.0 Bottom of Exploration at 15.0 feet below ground surface.
20					
25					
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-0AK-103					

Maine Department of Transportation Soil/Bore Exploration Log US CUSTOMER UNITS		Project: Large Culvert Replacement on the Ridge Road Location: Oakfield, Maine		Boring No.: HB-0AK-104	
Drilling Contractor: MainDOT	Elevation (ft.): 589.3	Auger ID/OD: 5" Dia.	WIN: 23697.00		
Operator: Daggert/Niles/Kyle	Status: NAVD88	Sampler: N/A			
Logged By: C. Russell	Rig Type: CME 45C	Header Wt./Fall: N/A			
Date Start/Finish: 8/15/2018 10:35-11:15	Drilling Method: Solid Stem Auger	Core Barrel: N/A			
Boring Location: 148+43.8, 5.65 Ft Rt.	Costing ID/OD: N/A	Water Level: None Observed			
Sample Information		Visual Description and Remarks			
Depth (ft.)	Sample No.	Rev./Spec. (in)	Sample Depth (ft.)	Blow (1/4 in. Shear Strength) (blows/ft)	Remarks
0					Probe, no samples or descriptions taken.
5					
10					
15					584.1 Possible Weathered ROCK. Bottom of Exploration at 15.2 feet below ground surface.
20					
25					
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-0AK-104					

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023697.00
WIN
23697.00
HIGHWAY PLANS

STATE OF MAINE
Cody A. Russell
15866
LICENSED PROFESSIONAL ENGINEER

PROJ. MANAGER: _____
DESIGN-DETAILED: _____
CHECKED-REVIEWED: _____
DESIGN-DETAILED: C. RUSSELL
DESIGN-DETAILED: T. WHITE
REVISIONS 1: _____
REVISIONS 2: _____
REVISIONS 3: _____
REVISIONS 4: _____
FIELD CHANGES: _____

SIGNATURE: _____
DATE: JAN 2024
P.E. NUMBER: 15866
DATE: 1/22/2024

OAKFIELD
RIDGE ROAD
BORING LOGS

SHEET NUMBER
7
OF 14

CURVE DATA #1
 PI = 145+08.91
 D = 5°43'46.5"
 Δ = 9°56'48.7" Lt.
 R = 1000.00'
 L = 173.61'
 T = 87.02'
 E = 3.78'

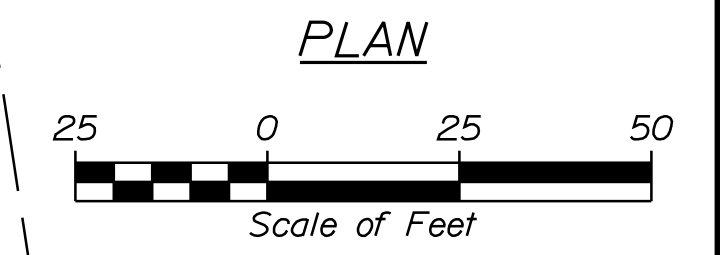
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 PI = 148+27.58
 D = 4°46'28.7"
 Δ = 21°53'32.0" Lt.
 R = 1200.00'
 L = 458.51'
 T = 232.09'
 E = 22.24'

PROPOSED CULVERT LAYOUT CONTROLS				
	INLET INVERT CONROLS		OUTLET INVERT CONROLS	
PERPENDICULAR STATION	148+27.57	148+43.01	148+28.00	148+42.58
PERPENDICULAR OFFSET	33.98' LT	33.98' LT	34.02' RT	34.02' RT
INVERT ELEVATION	EL. 591.00'	EL. 591.00'	EL. 591.00'	EL. 591.00'

STA. 147-75.00
 BEGIN TRANSITION
 MATCH EXISTING
 LIMIT OF WORK

STA. 148-00.00
 END TRANSITION
 BEGIN FULL DEPTH CONSTRUCTION
 BEGIN PROJECT WIN 23697.00

STA. 148-75.00
 END FULL DEPTH CONSTRUCTION
 END PROJECT WIN 23697.00
 BEGIN TRANSITION



Date: 1/17/2024

Username: common

Division: HIGHWAY

Filename: ... \Consultant\006_HDPlan.dgn

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 23697.00
 WIN 23697.00
 BRIDGE NO. 6638
 HIGHWAY PLANS

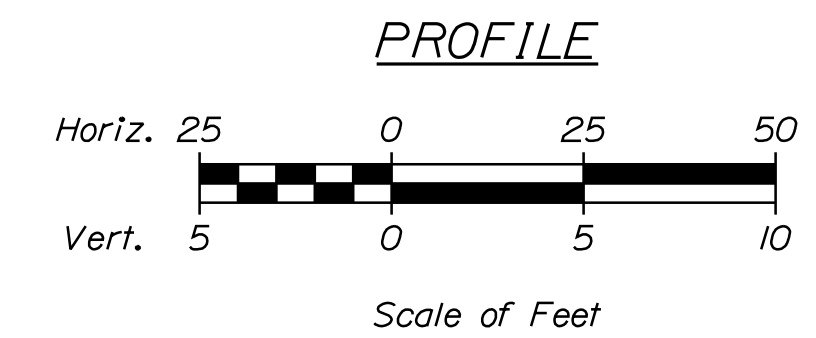
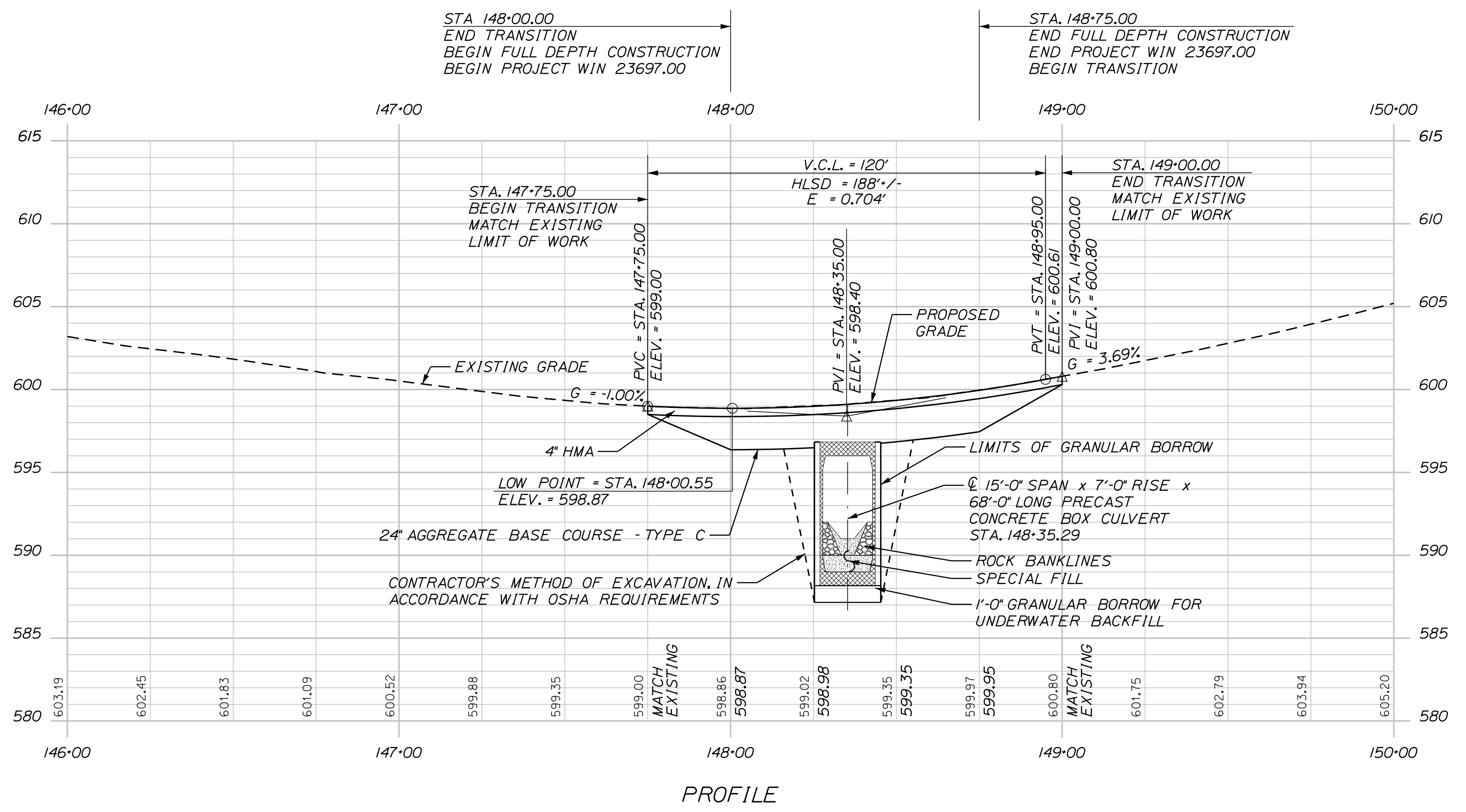
DATE
 BY
 ROGER SOUCY
 L. KALLOCH
 W. GORDON
 S. FORTIER
 J. BEAUBIET

SIGNATURE
 P.E. NUMBER
 DATE

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

OAKFIELD
 RIDGE ROAD
 PLAN AND PROFILE

SHEET NUMBER
 8
 OF 14

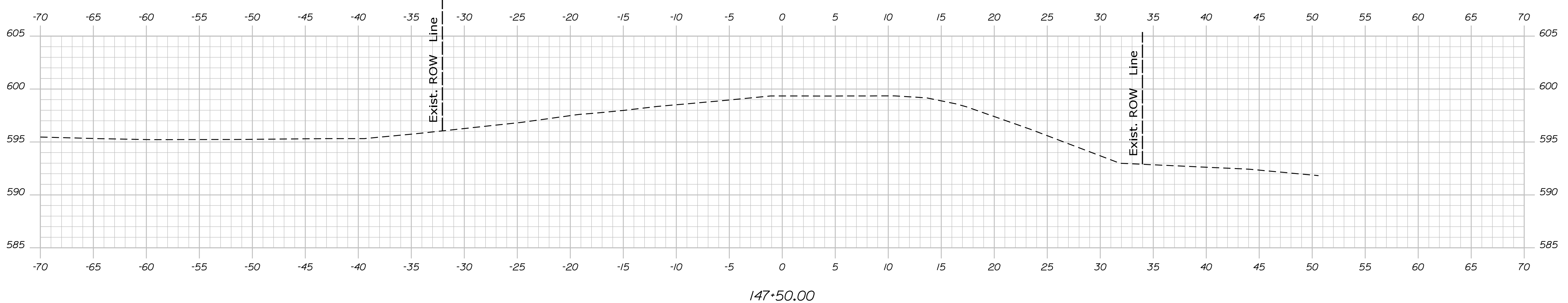
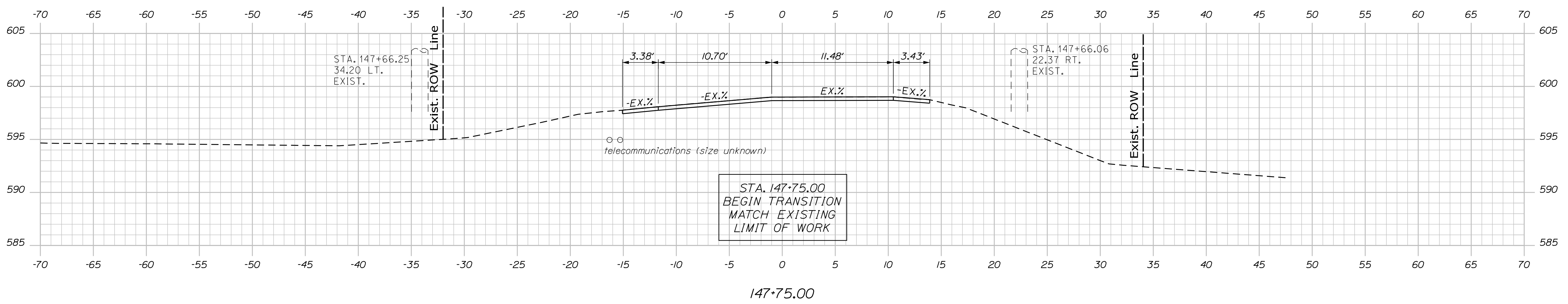
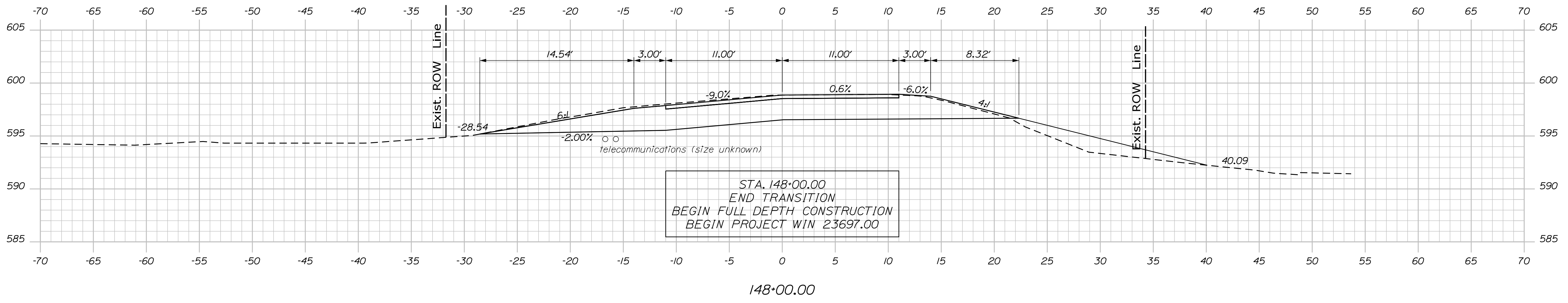


Date: 1/17/2024

Username: common

Division: HIGHWAY

Filename: ... \Consultant\007_Xsect.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
23697.00
WIN 23697.00
BRIDGE NO. 6638
HIGHWAY PLANS

SIGNATURE	P.E. NUMBER	DATE

PROJ. MANAGER	ROGER SOUCY	DATE
CHECKED	L. KALLOCH	
DESIGNED	W. GORDON	
REVIEWED	S. FORTIER	
DESIGNED	J. BEAUBIET	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

OAKFIELD
RIDGE ROAD
CROSS SECTIONS

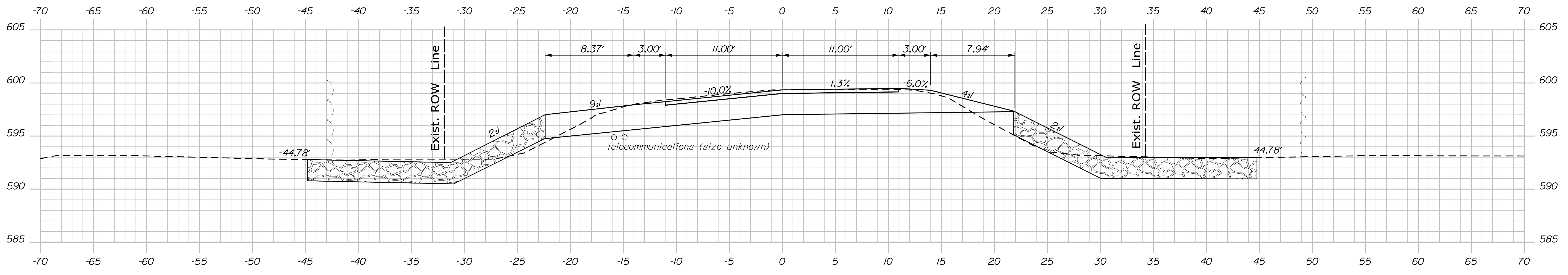
SHEET NUMBER
9
OF 14

Date: 1/17/2024

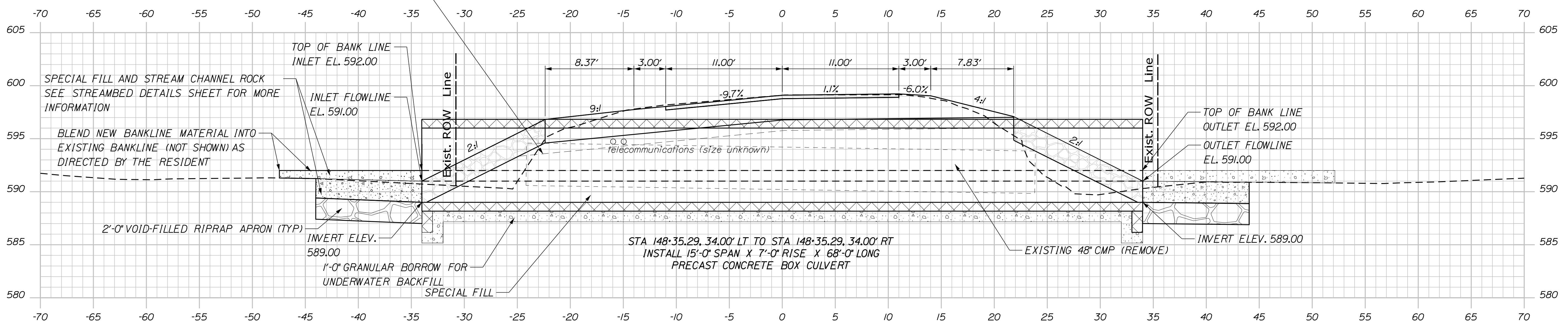
Username: common

Division: HIGHWAY

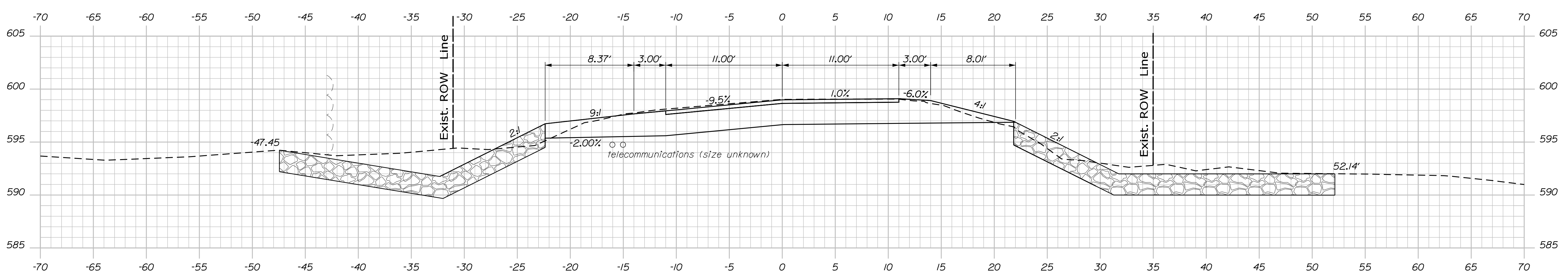
Filename: ... \Consultant\007_Xsect.dgn



LIMIT OF ADDITIONAL 1'-0" LIFT OF SUBBASE FOR FROST TRANSITION AT CULVERT
 148+50.00



148+35.29



148+25.00

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 23697.00
 WIN
 23697.00
 BRIDGE NO. 6638
 HIGHWAY PLANS

DATE	SIGNATURE
BY	P.E. NUMBER
PROJ. MANAGER	DATE

DESIGN-DETAILED	DATE
CHECKED-REVIEWED	BY
DESIGN-DETAILED	PROJ. MANAGER
REVISIONS 1	DESIGN-DETAILED
REVISIONS 2	BY
REVISIONS 3	PROJ. MANAGER
REVISIONS 4	DATE
FIELD CHANGES	

OAKFIELD
 RIDGE ROAD
 CROSS SECTIONS

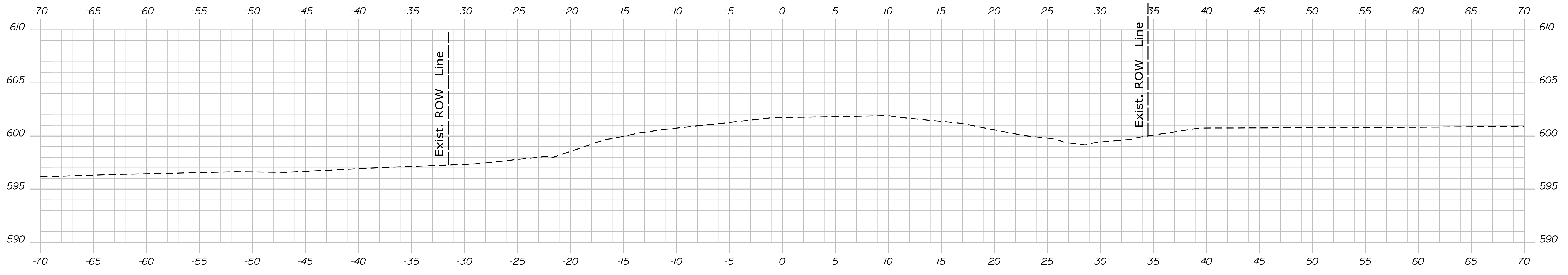
SHEET NUMBER
 10
 OF 14

Date: 1/17/2024

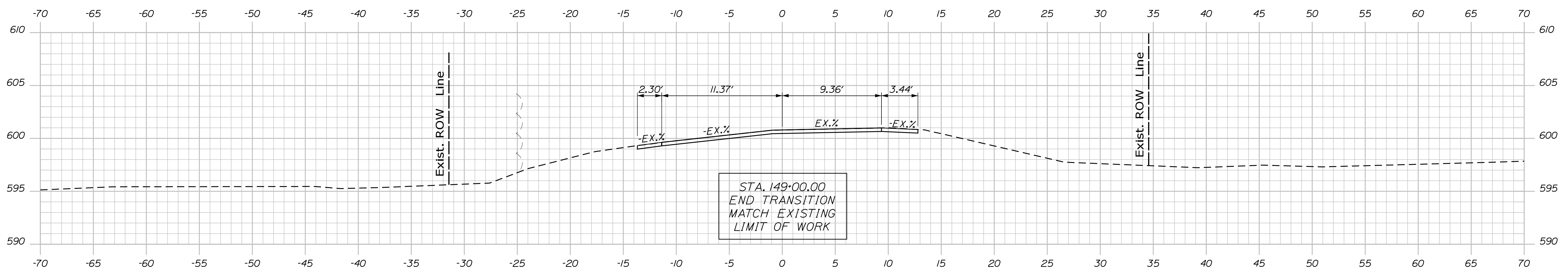
Username: common

Division: HIGHWAY

Filename: ... \Consultant\007_Xsect.dgn

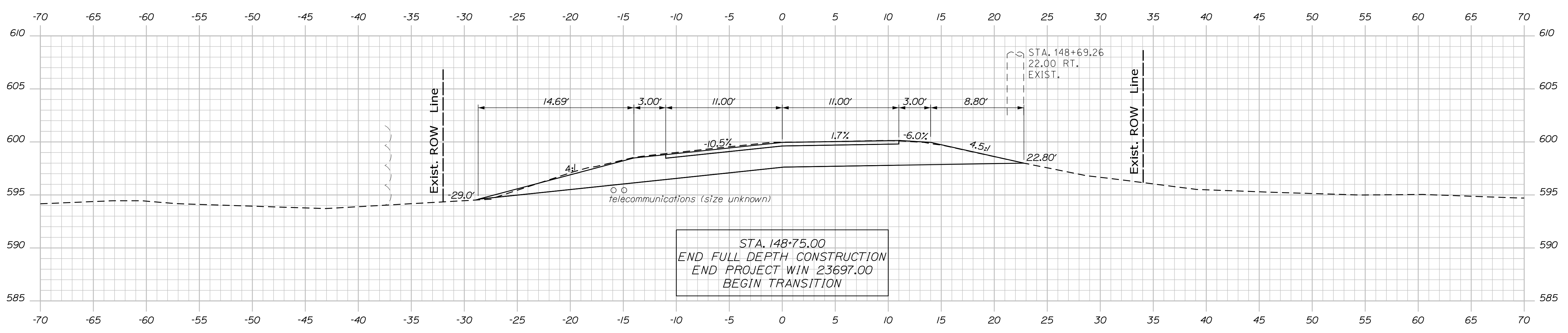


149+25.00



STA. 149+00.00
 END TRANSITION
 MATCH EXISTING
 LIMIT OF WORK

149+00.00



STA. 148+75.00
 END FULL DEPTH CONSTRUCTION
 END PROJECT WIN 23697.00
 BEGIN TRANSITION

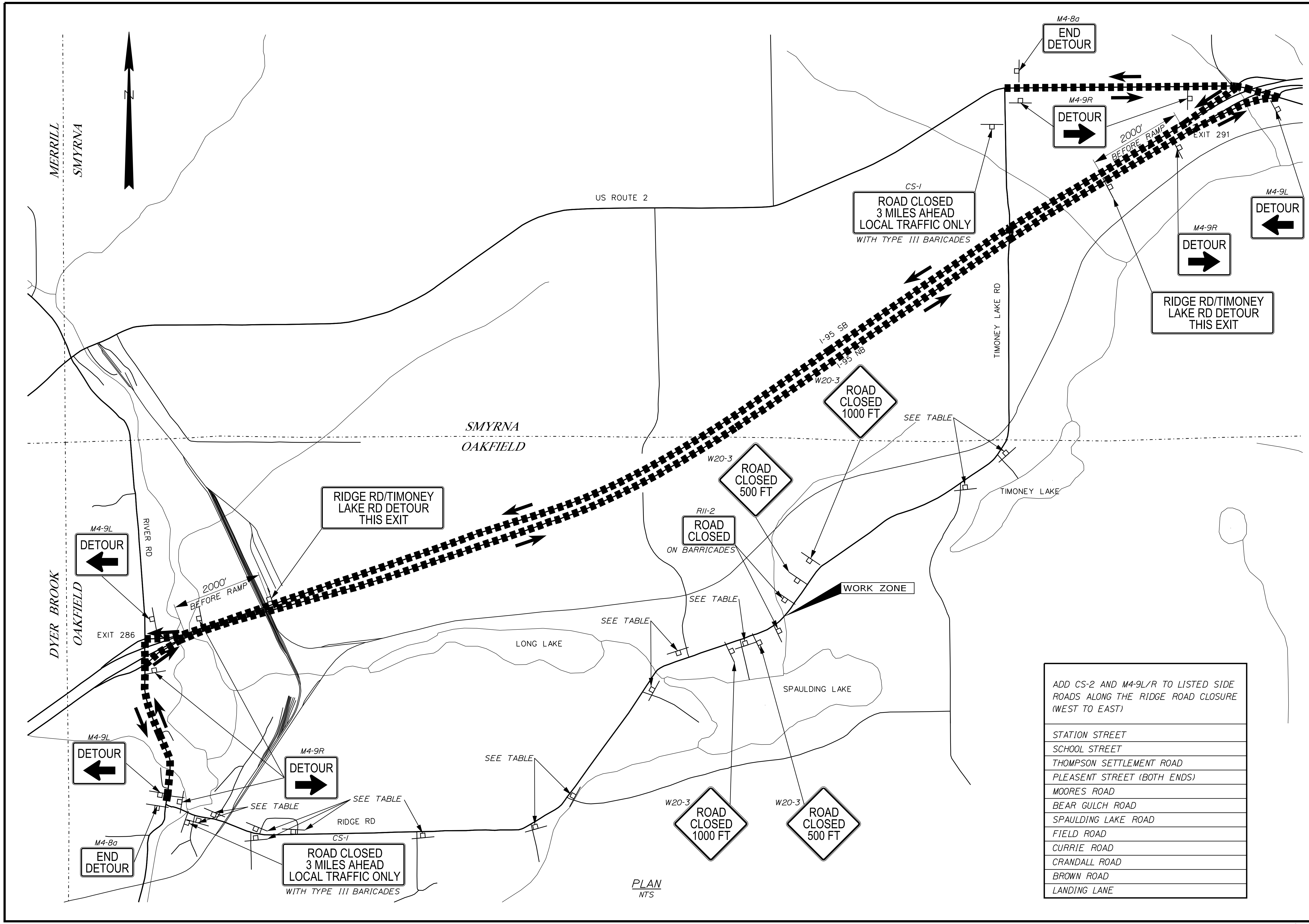
148+75.00

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 23697.00
 WIN
 23697.00
 BRIDGE NO. 6638
 HIGHWAY PLANS

DESIGNED	DATE
CHECKED	BY
DESIGNED	PROJ. MGR.
REVISIONS 1	ROGER SOUCY
REVISIONS 2	L. KALLOCH
REVISIONS 3	W. GORDON
REVISIONS 4	S. FORTIER
FIELD CHANGES	J. BEAUBIET
SIGNATURE	
P.E. NUMBER	
DATE	

OAKFIELD
 RIDGE ROAD
 CROSS SECTIONS

SHEET NUMBER
 11
 OF 14



ADD CS-2 AND M4-9L/R TO LISTED SIDE ROADS ALONG THE RIDGE ROAD CLOSURE (WEST TO EAST)

STATION STREET
SCHOOL STREET
THOMPSON SETTLEMENT ROAD
PLEASENT STREET (BOTH ENDS)
MOORES ROAD
BEAR GULCH ROAD
SPAULDING LAKE ROAD
FIELD ROAD
CURRIE ROAD
CRANDALL ROAD
BROWN ROAD
LANDING LANE

PLAN
NTS

<p>OAKFIELD RIDGE ROAD ROAD CLOSURE PLAN</p>	<p>SHEET NUMBER 12</p> <p>OF 14</p>
<p>STATE OF MAINE DEPARTMENT OF TRANSPORTATION</p>	<p>BRIDGE NO. 6638 WIN 23697.00</p>
<p>PROJ. MANAGER: ROGER SOUCY DESIGN: L. KALLOCH, W. GORDON CHECKED: S. FORTIER, J. BEAUBIET DESIGN DETAILED: [] REVISIONS: 1, 2, 3, 4</p>	<p>DATE: [] BY: [] SIGNATURE: [] P.E. NUMBER: [] DATE: []</p>
<p>HIGHWAY PLANS</p>	

CONSTRUCTION SIGN SUMMARY

ITEM NUMBER	IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		AREA IN SQUARE FEET
		WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR		BACK-GROUND	LEGEND BOARDER	
652.35	CS-1	60"	30"	ROAD CLOSED 3 MILES AHEAD LOCAL TRAFFIC ONLY	6" 5" 4"	3.4" 3.4"		2	ORANGE	BLACK	12.50 (25.00)
652.35	CS-2	30"	30"	RIDGE ROAD CLOSED USE DETOUR	4" 4" 4"	3.0" 3.0"		13	ORANGE	BLACK	6.25 (81.25)
652.35	CS-3	54"	30"	RIDGE RD/TIMONEY LAKE RD DETOUR THIS EXIT	6" 5" 4"	3.4" 3.4"		2	ORANGE	BLACK	11.25 (22.50)
652.35	M4-8A	24"	18"	END DETOUR	TEXT DIMENSIONS SHALL CONFORM TO 'STANDARD HIGHWAY SIGNS'			2	ORANGE	BLACK	3.00 (6.00)
652.35	M4-9R	30"	24"	DETOUR →				12	ORANGE	BLACK	5.00 (60.00)
652.35	M4-9L	30"	24"	DETOUR ←				10	ORANGE	BLACK	5.00 (50.00)
652.35	R11-2	48"	30"	ROAD CLOSED				2	ORANGE	BLACK	10.00 (20.00)
652.35	W20-3 (500 FT)	48"	48"	ROAD CLOSED 500 FT				2	ORANGE	BLACK	16.00 (32.00)
652.35	W20-3 (1000 FT)	48"	48"	ROAD CLOSED 1000 FT				2	ORANGE	BLACK	16.00 (32.00)

NOTES:

- SIGN LOCATIONS ARE APPROXIMATE AND TO BE VERIFIED IN THE FIELD.
- INFORMATION SHOWN REFLECTS SIGNAGE FOR DETOUR PLANS ONLY. ADDITIONAL SIGNAGE IS REQUIRED FOR HIGHWAY CONSTRUCTION WORK.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

23697.00

BRIDGE NO. 8638
WIN
23697.00
HIGHWAY PLANS

PROJ. MANAGER	ROGER SOUCY	DATE	
DESIGN-DETAILED	L. KALLOCH	BY	W. GORDON
CHECKED-REVIEWED	S. FORTIER		J. BEAUBIET
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

OAKFIELD
RIDGE ROAD
SIGN SUMMARY

SHEET NUMBER

13

OF 14

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



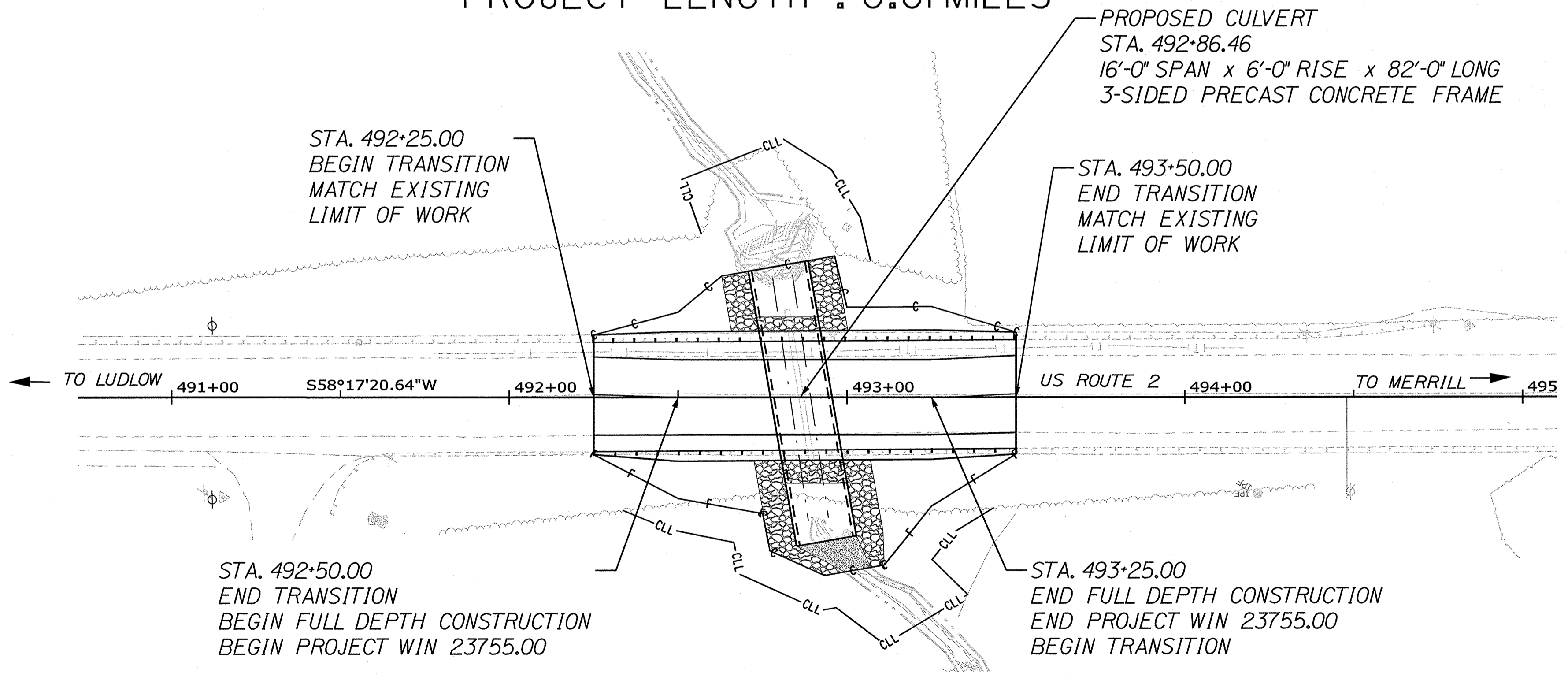
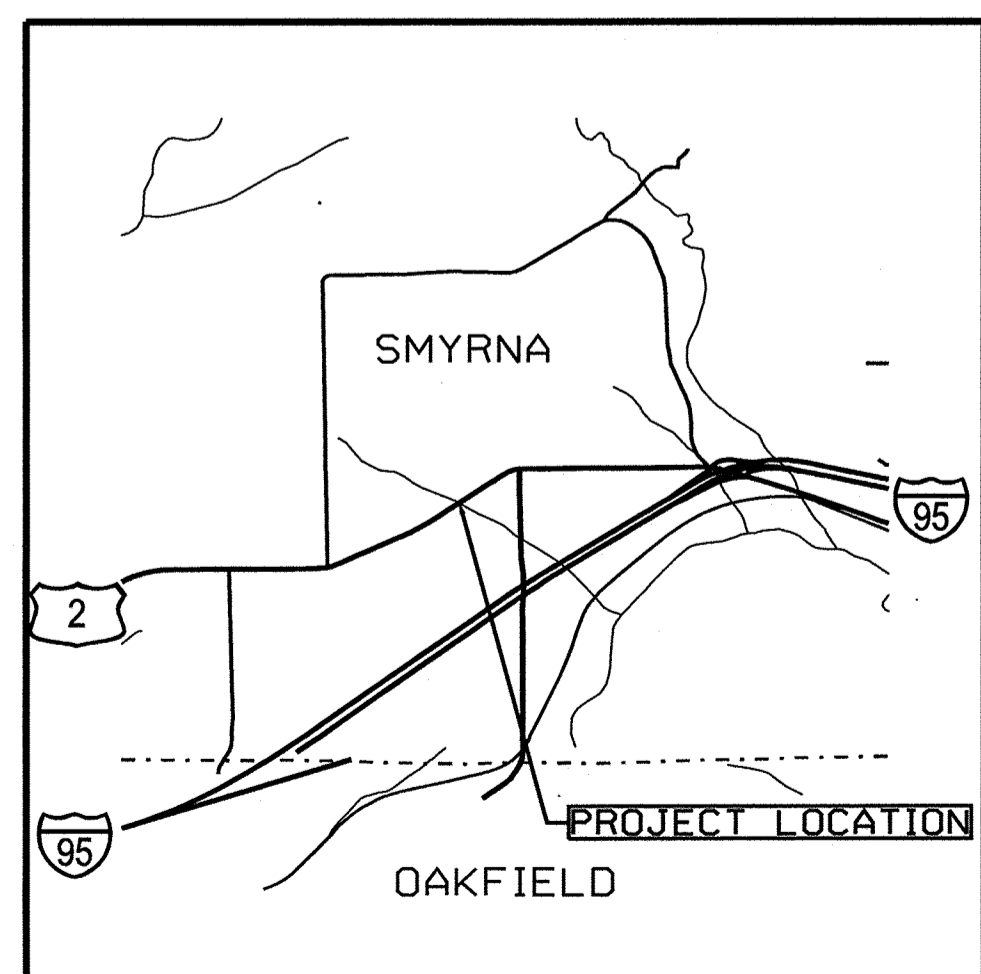
SMYRNA AROOSTOOK COUNTY US ROUTE 2 LIMESTONE BROOK BRIDGE BRIDGE NO. 6637

FEDERAL PROJECT NO. 2375500
PROJECT LENGTH : 0.01 MILES

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

INDEX OF SHEETS	
Description	Sheet No.
Title Sheet	1
Typical Sections	2
Estimated Quantities and General Notes	3
Special Details	4-5
Boring Location & Interpretive Subsurface Profile	6
Boring Logs	7
Plan and Profile	8
Cross Sections	9-12
Road Closure Plan	13
Sign Summary	14
Right of Way Map	15

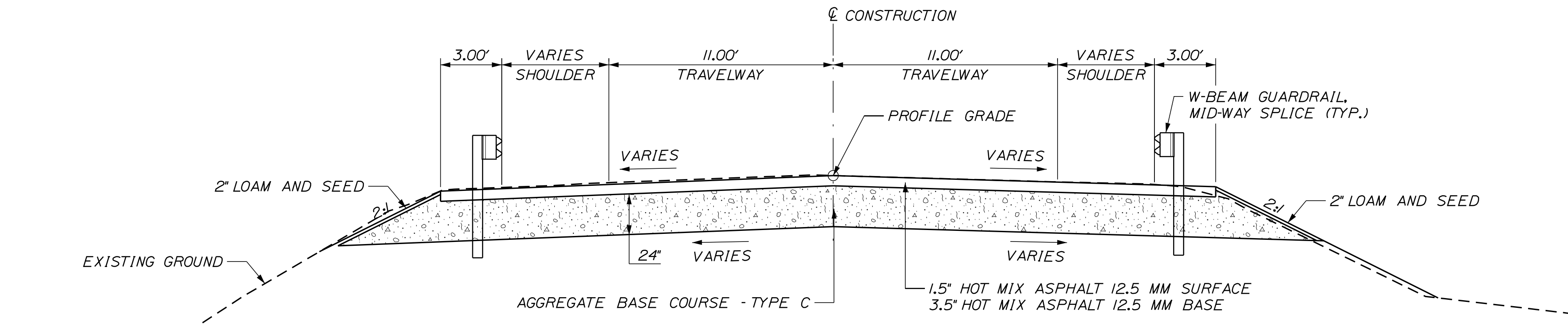
TRAFFIC DATA	
Current (2023) AADT	920
Future (2043) AADT	1,010
DHV - % of AADT	12%
Design Hour Volume	121
% Heavy Trucks (AADT)	17%
% Heavy Trucks (DHV)	23%
Directional Distribution (DHV)	56%
18 kip Equivalent P 2.0	100
18 kip Equivalent P 2.5	96
Design Speed (mph)	50
Functional Class	Major Collector
Highway Corridor Priority	4



PROJECT LOCATION:	SMYRNA, ROUTE 2, LOCATED 0.4 MILES WEST OF TIMONEY LAKE ROAD INTERSECTION.
PROGRAM AREA:	REGIONAL PROGRAM
SCOPE OF WORK:	LARGE CULVERT REPLACEMENT

STATE OF MAINE DEPARTMENT OF TRANSPORTATION APPROVED COMMISSIONER: <i>[Signature]</i> CHIEF ENGINEER: <i>[Signature]</i>	DATE 2-23-24 2-29-24
SIGNATURE <i>[Signature]</i> 15070 P.E. NUMBER 01-25-2024 DATE	
PROJECT INFORMATION PROGRAM: HIGHWAY PROJECT MANAGER: ROGER SOUCY DESIGNER: L. KALOCH CONSULTANT: CMA ENGINEERS, INC. PROJECT RESIDENT: CONTRACTOR: PROJECT COMPLETION DATE:	
WIN 23755.00 FEDERAL PROJECT NO. 2375500 SMYRNA US ROUTE 2 TITLE SHEET	SHEET NUMBER 1 OF 15

Date: 1/17/2024
 Username: common
 Division: HIGHWAY
 Filename: ... \Consultant\001_Title.dgn



AGGREGATE BASE COURSE - TYPE C		
SHOULDER 82.85 CY/100 LF	TRAVEL LANE 162.96 CY/100 LF	SHOULDER 78.81 CY/100 LF
STATION TO STATION 492+50 TO 493+25	STATION TO STATION 492+50 TO 493+25	STATION TO STATION 492+50 TO 493+25

ROADWAY TYPICAL SECTION
N.T.S.

CROSS SLOPE TABLE		
LT. TRAVEL LANE	STATION	RT. TRAVEL LANE
	BEGIN	
MATCH	492+25	MATCH
-3.6%	492+50	-2.9%
-3.5%	492+75	-3.0%
-3.4%	493+00	-3.0%
-3.3%	493+25	-3.1%
MATCH	493+50	MATCH

NOTES:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2 INCH LOAM DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
3. STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

NOT TO SCALE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2375500
BRIDGE NO. 6637		WIN 23755.00
REGIONAL PROGRAM		
SIGNATURE		
P.E. NUMBER		
DATE		
PROJ. MANAGER	ROGER SOUCY	DATE
DESIGN-DETAILED	L. KALLIOCH	BY
CHECKED-REVIEWED	S. FORTIER	W. GORDON
DESIGN-DETAILED		J. BEAUBIET
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		
SMYRNA US ROUTE 2 TYPICAL SECTIONS		
SHEET NUMBER		
2		
OF 15		

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203.20	COMMON EXCAVATION	370	CY
203.25	GRANULAR BORROW	110	CY
203.33	SPECIAL FILL	10	CY
206.07	STRUCTURAL ROCK EXCAVATION-DRAINAGE & MINOR STRUCTURES	50	CY
304.16	AGGREGATE BASE COURSE - TYPE C	360	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	45	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	110	T
409.15	BITUMINOUS TACK COAT - APPLIED	15	G
502.21	STRUCTURAL CONCRETE ABUTMENT & RETAINING WALL	55	CY
502.565	CONCRETE FILL	15	CY
503.12	REINFORCING STEEL, FABRICATED & DELIVERED (7000 LB)	7000	LB
503.13	REINFORCING STEEL, PLACING	7000	LB
508.13	SHEET WATERPROOFING MEMBRANE (160 SY)	1	SY
511.07	COFFERDAM, UPSTREAM	1	LS
511.07	COFFERDAM, DOWNSTREAM	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (120 SY)	1	LS
534.701	PRECAST STRUCTURAL CONCRETE ARCH - STATE SUPPLIED (95 CY)	1	LS
605.09	6" UNDERDRAIN TYPE B	170	LF
606.36	GR REMOVED AND RESET	275	LF
610.213	VOID-FILLED RIPRAP	160	CY
613.319	EROSION CONTROL BLANKET	230	SY
615.07	LOAM	10	CY
618.14	SEEDING METHOD NUMBER 2	2	UN
619.12	MULCH	2	UN
620.58	EROSION CONTROL GEOTEXTILE	210	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	380	LF
627.78	TEMPORARY 4" PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	380	LF
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	40	HR
639.20	FIELD OFFICE - TYPE C	0.5	EA
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	10	EA
652.34	CONE	20	EA
652.35	CONSTRUCTION SIGN	480	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	60	CD
652.38	FLAGGER	300	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.
- 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.
- THE CLEARING AND SELECTIVE CLEARING AND THINNING LINES SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. THE ACTUAL LINES FOR CLEARING AND THINNING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE RESIDENT.
- WHERE DEEMED NECESSARY BY THE RESIDENT, UNSUITABLE EXCESS MATERIAL SHALL BE REMOVED FROM THE EDGES OF SHOULDERS AND PLACED IN DESIGNATED AREAS OR DISPOSED OF. PAYMENT WILL BE MADE UNDER THE APPROPRIATE CONTRACT ITEMS.
- 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.
- 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 SPECIFICATIONS ITEM 703.19, GRANULAR BORROW.
- 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.
- CROSS SLOPES FOR NORMAL AND SUPERELEVATED SECTIONS WILL BE STRAIGHT UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
- GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.
- CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL WILL BE CONSIDERED INCIDENTAL TO STANDARD SPECIFICATIONS SECTION 606, GUARDRAIL.
- 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.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL SIDE STAKING OF EXISTING CENTERLINE AS PER STANDARD SPECIFICATION SECTION 105.6.2. CONTRACTOR PROVIDED SERVICES. SIDE STAKES SHALL BE PLACED SAFELY OUTSIDE OF THE CONSTRUCTION LIMITS AND THE EXISTING CENTERLINE GRADES SHALL BE TRANSFERRED TO THESE STAKES. THESE STAKES AND GRADES WILL BE USED TO LAY OUT CENTERLINE AND DETERMINE NEW CONSTRUCTION FINISH GRADES FROM DIFFERENTIAL ELEVATION SHEETS FURNISHED BY MAINE DOT. ALL LAYOUT, STAKES, AND GRADES WILL BE CHECKED AND MUST BE ACCEPTABLE TO THE RESIDENT. (REHABILITATION ONLY)
- 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 CONSTRUCTION OF LIMESTONE BROOK BRIDGE", SOILS REPORT 2024-02, JANUARY 17, 2024 CAN BE ACCESSED AT THE MAINE DOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).

18. 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.

19. AREAS ON THE PROJECT REQUIRING FILL WILL COME FROM SUITABLE SITES SUCH AS EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.

20. 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.

21. 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.

22. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.

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

24. DURING CONSTRUCTION, THE ROAD WILL BE CLOSED TO TRAFFIC FOR A TIME PERIOD SPECIFIED IN THE SPECIAL PROVISIONS.

25. PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED TO THE FOLLOWING AREAS:

ALL EXPOSED SURFACES OF PRECAST CONCRETE FRAME

26. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND SEDIMENT CONTROL (FEBRUARY 2008).

27. ALL COMPUTATION METHODS AND QUANTITIES USED FOR THE ENGINEER'S ESTIMATE FOR PLAN QUANTITY ITEMS ONLY ARE AVAILABLE BY CONTACTING REGION 5 PROJECT MANAGER.

CONSTRUCTION NOTES

1. ROCK EXCAVATION MAY BE NECESSARY TO ACHIEVE PLANNED GRADES FOR THE PROJECT. EXCAVATED FRACTURE ROCK SHALL BE INCIDENTAL TO ITEM 534.701 PRECAST STRUCTURAL CONCRETE ARCH AND SOUND ROCK REQUIRING HAMMERING OR BLASTING WILL BE PAID AS STRUCTURAL ROCK EXCAVATION (PAY ITEM 206.07).

2. BLASTING MAY BE REQUIRED TO ACHIEVE THE PLANNED GRADES FOR THE PROJECT. IF BLASTING IS REQUIRED, THE CONTRACTOR SHALL CONDUCT WORK IN ACCORDANCE WITH STANDARD SPECIFICATION SECTIONS 105.2.7 - USE OF EXPLOSIVES AND 203.042 - ROCK EXCAVATION AND BLASTING.

3. ANY EXCAVATED DREDGE MATERIAL THAT CAN BE REUSED ON SITE, AS DIRECTED BY THE RESIDENT, SHALL BE REUSED TO FILL WITHIN EMBANKMENT AND INTO VOIDS OF RIPRAP. THIS WORK WILL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.

4. CONSTRUCTION ACTIVITIES SHOULD NOT BE PERMITTED TO CREATE ANY OPEN FISSURES IN THE BEDROCK SURFACE. ANY IRREGULARITIES IN THE EXPOSED BEDROCK SURFACE OR IRREGULARITIES CREATED DURING THE EXCAVATION PROCESS SHALL BE FILLED USING CONCRETE FILL (PAY ITEM 502.565) PRIOR TO PEDESTAL FOOTING CONSTRUCTION.

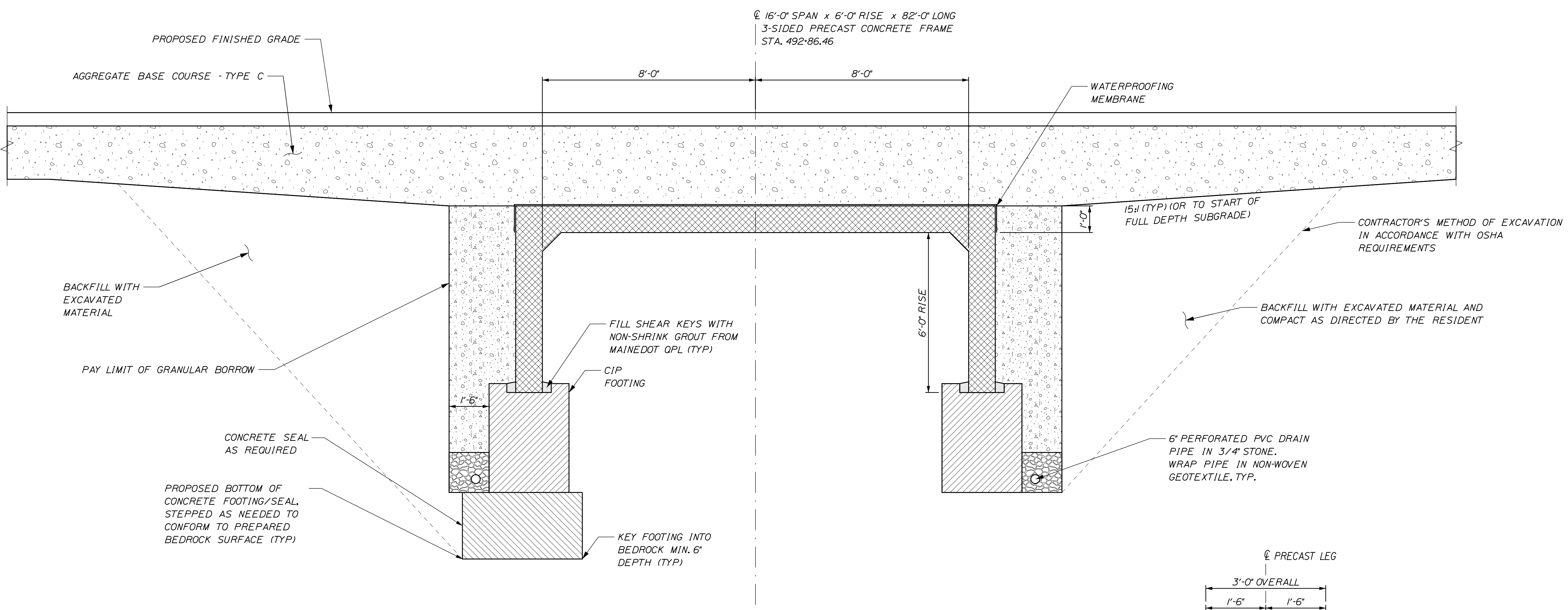
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2375500		WIN		REGIONAL PROGRAM	
SMYRNA		U.S. ROUTE 2		ESTIMATED QUANTITIES		AND GENERAL NOTES		SHEET NUMBER	
3		OF 15		DATE		SIGNATURE		P.E. NUMBER	
PROJ. MANAGER		ROGER SOUCY		BY		DATE		DATE	
DESIGN-DETAILED		L. KALLOCH		W. GORDON					
CHECKED-REVIEWED		S. FORTIER		J. BEAUBIET					
DESIGN-DETAILED									
REVISIONS 1									
REVISIONS 2									
REVISIONS 3									
REVISIONS 4									
FIELD CHANGES									

Date: 1/18/2024

Username: common

Division: HIGHWAY

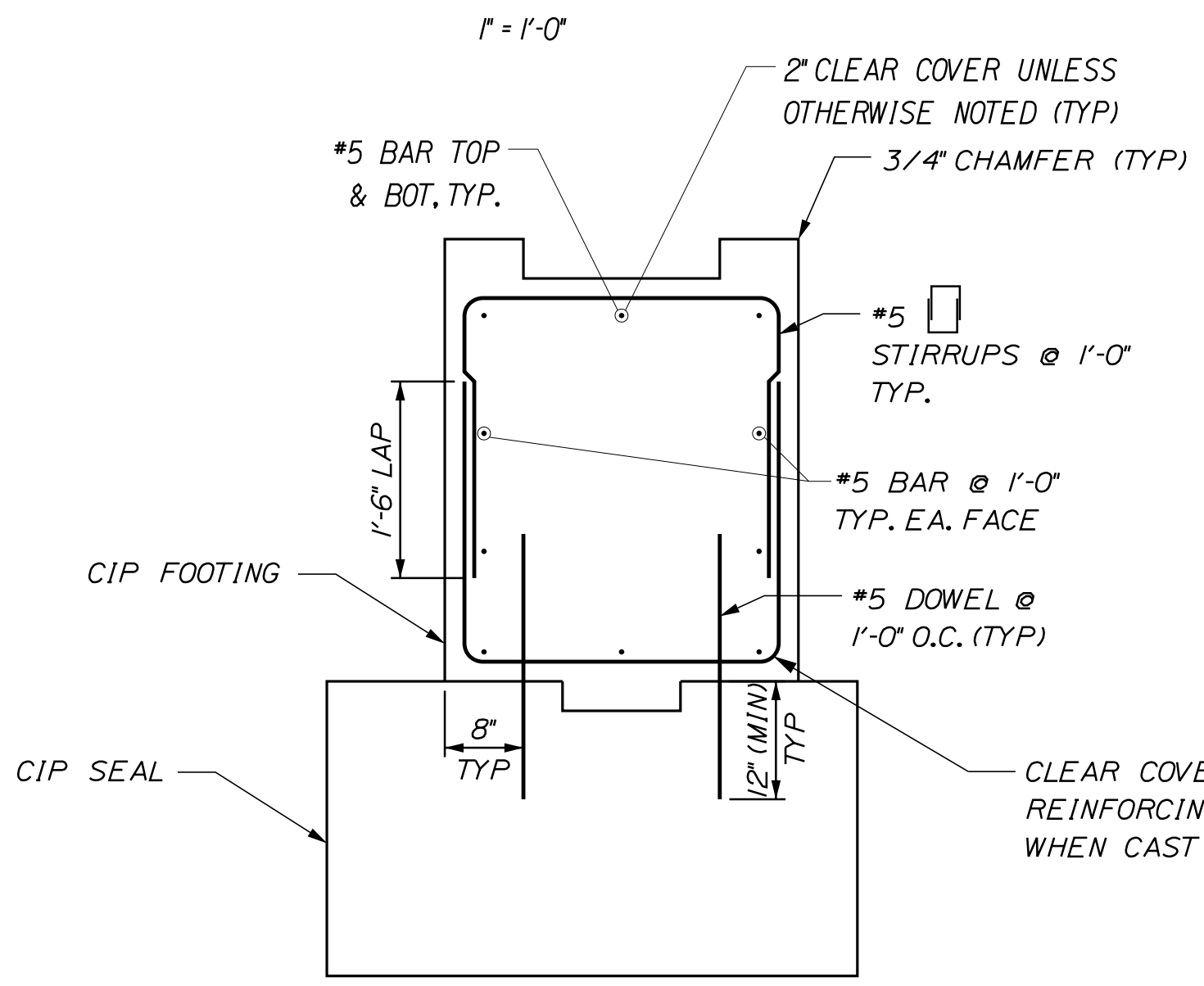
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CIP FOOTING NOTES:

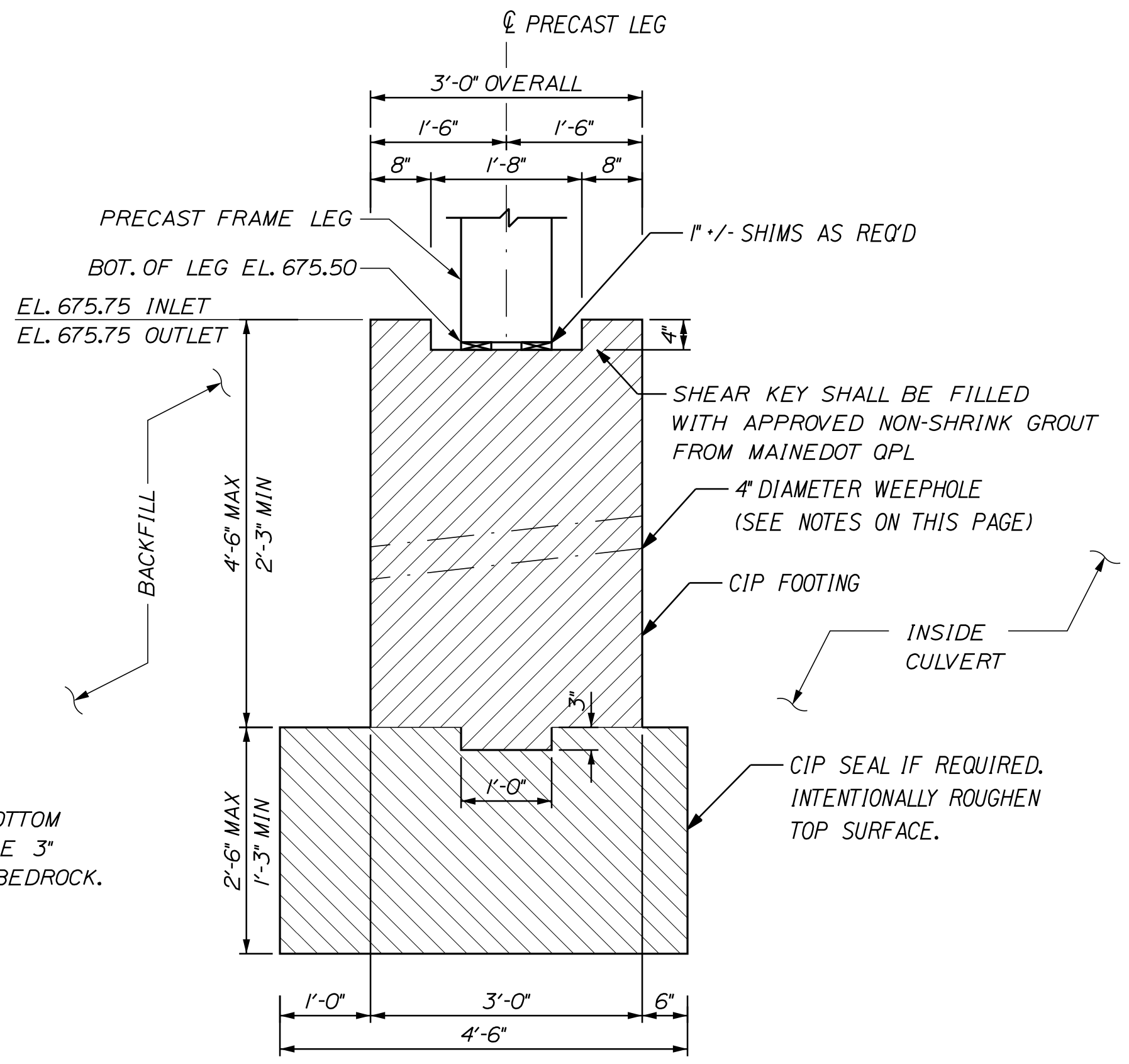
1. CAST-IN-PLACE FOOTING CONCRETE SHALL BE MAINEDOT CLASS LP.
2. CAST-IN-PLACE SEAL CONCRETE SHALL BE MAINEDOT CLASS S.
3. BEDROCK ELEVATIONS WILL VARY. ALL LOOSE WEATHERED BEDROCK SHALL BE REMOVED PRIOR TO CASTING SEAL OR FOOTING CONCRETE.
4. ALL EXPOSED BEDROCK SHALL BE CLEANED WITH HIGH PRESSURE WATER AND AIR PRIOR TO PLACING CONCRETE. CONCRETE FOOTING SHALL BE CAST IN THE DRY.
5. BEDROCK ELEVATIONS VARY. ALL LOOSE AND WEATHERED ROCK SHALL BE CLEANED FROM THE BEARING SURFACE PRIOR TO FOOTING CONSTRUCTION PER STANDARD SPECIFICATION 206. WHERE THE SLOPE OF THE BEDROCK IS STEEPER THAN 4H:1V THE BEDROCK SURFACE SHALL BE STEPPED AND BENCHED. EQUIPMENT USED TO PREPARE THE BEDROCK SURFACE FOR THE NEW FOOTINGS SHALL BE CONVENTIONAL CONSTRUCTION EQUIPMENT AS APPROVED BY THE RESIDENT. BEDROCK SURFACE PREPARATION AS DESCRIBED AND SHOWN IN THE PLANS SHALL BE INCIDENTAL TO ITEM 534.70 PRECAST STRUCTURAL CONCRETE ARCH. THE RESIDENT OR GEOTECHNICAL ENGINEER SHALL APPROVE THE BEDROCK SUBGRADE PRIOR TO PLACEMENT OF THE FOOTING OR SEAL CONCRETE.
6. GROUTED SHEAR KEY SHALL HAVE A SLOPED FINISH SUCH THAT WATER RUNS AWAY FROM PRECAST CONCRETE FRAME.
7. CHAMFER ALL EXPOSED EDGES 3/4" UNLESS OTHERWISE NOTED.
8. ALL REINFORCEMENT SHALL HAVE 2" CLEAR UNLESS OTHERWISE NOTED.
9. CONSTRUCT 4 INCH DIAMETER WEEP HOLES IN THE CAST-IN-PLACE FOOTING AT A 10 FOOT MAXIMUM SPACING. HEIGHT OF WEEP HOLES SHALL BE WITHIN BOTTOM 2 FEET OF FOOTING.
10. VERTICAL WATERSTOP SHALL BE USED AT VERTICAL CONSTRUCTION JOINT IN ACCORDANCE WITH STANDARD DETAIL 502(01).

TYPICAL CULVERT SECTION A-A



TYPICAL FOOTING REINFORCING

3/4" = 1'-0"



TYPICAL FOOTING

3/4" = 1'-0"

STATE OF MAINE	BRIDGE NO. 6637	REGIONAL PROGRAM
DEPARTMENT OF TRANSPORTATION	WIN	23755.00
	2375500	

PROJ. MANAGER	ROGER SOUCY	DATE
DESIGN-DETAILED	L. KALLOCH	BY
CHECKED-REVIEWED	W. GORDON	DATE
DESIGN-DETAILED	S. FORTIER	DATE
DESIGN-DETAILED	J. BEAUBIET	DATE
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE	P.E. NUMBER	DATE

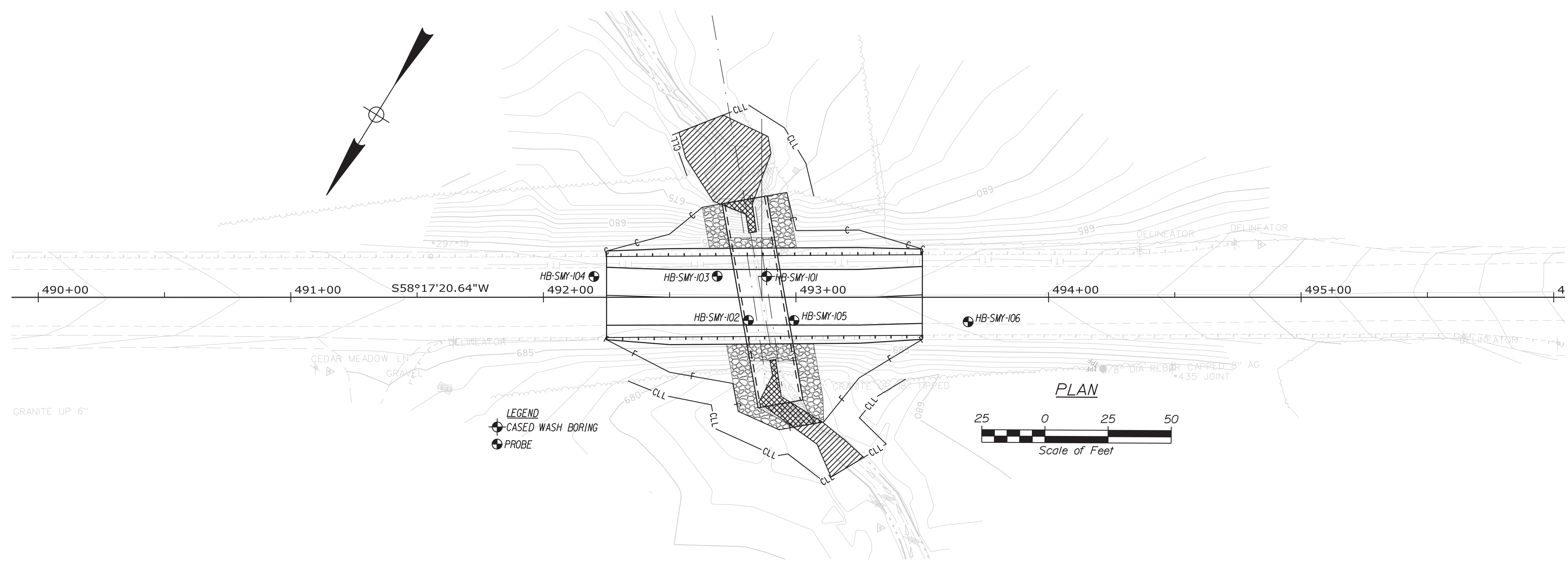
SMYRNA
US ROUTE 2
SPECIAL DETAILS

SHEET NUMBER
5
OF 15

Date: 1/12/2024

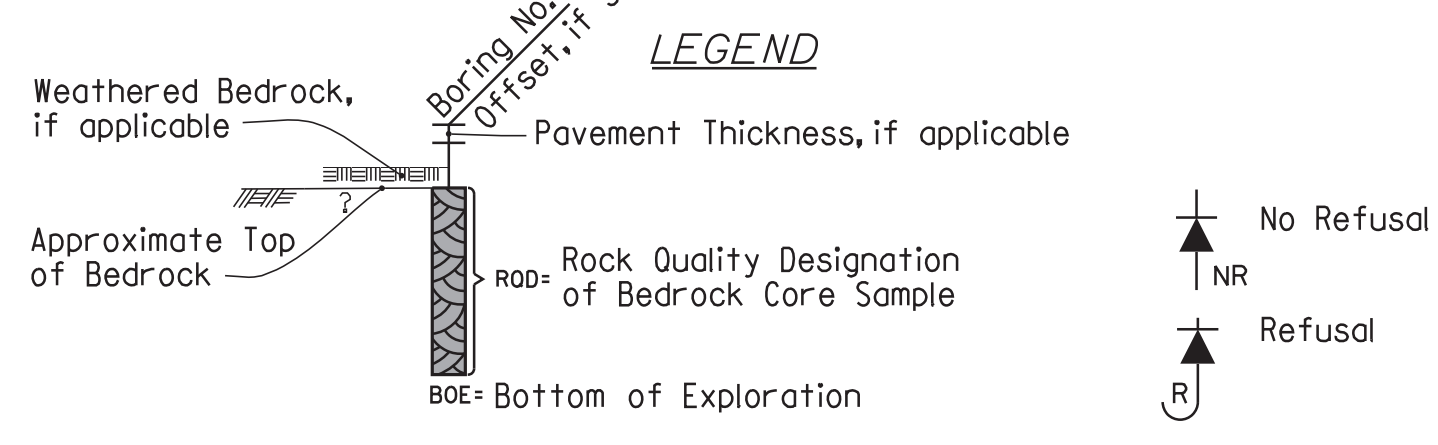
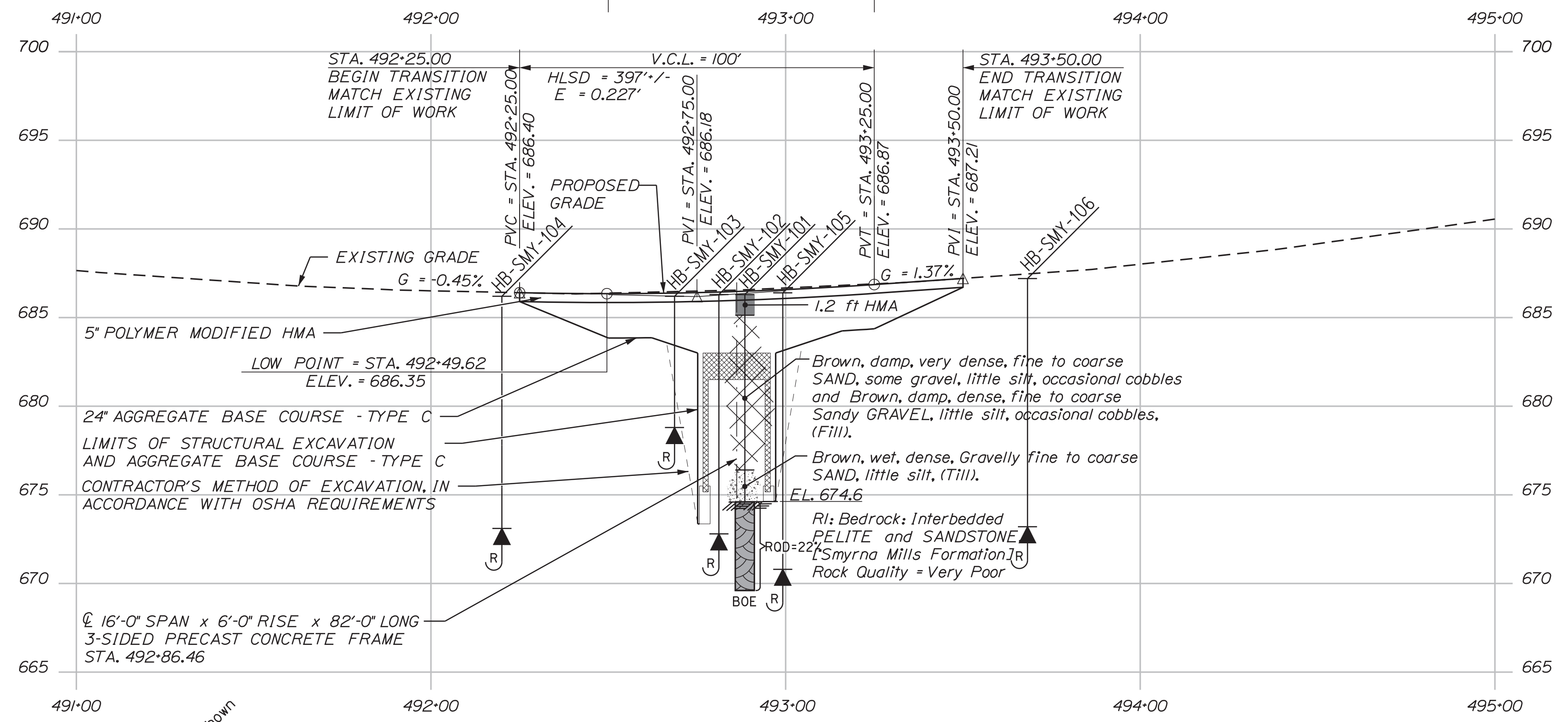
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Division: GEOTECH



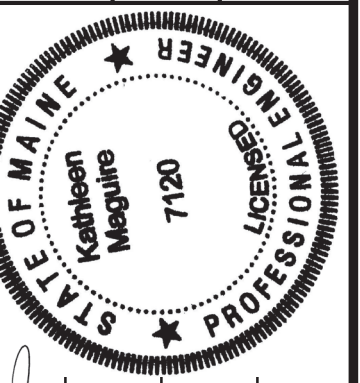
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END TRANSITION
BEGIN FULL DEPTH CONSTRUCTION
BEGIN PROJECT WIN 23755.00

STA 493+25.00
END FULL DEPTH CONSTRUCTION
END PROJECT WIN 23755.00
BEGIN TRANSITION



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
02375500
WIN
23755.00
HIGHWAY PLANS



SIGNATURE
K. Maguire
7120
P.E. NUMBER
1/11/2024
DATE

PROJ. MANAGER	DATE	BY	R. SOURCE
DESIGN-DETAILED			
CHECKED-REVIEWED	JAN 2024	T. WHITE	
DESIGN-DETAILED		K. MAGUIRE	
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SMYRNA
U.S. ROUTE 2
BORING LOCATION PLAN &
INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

6

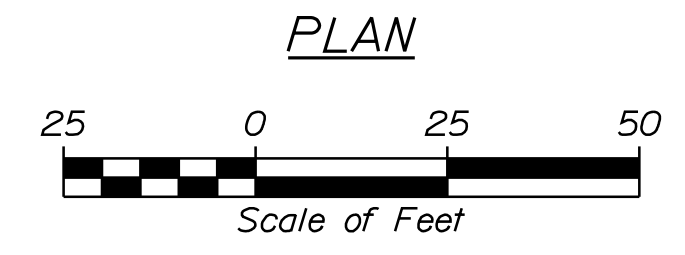
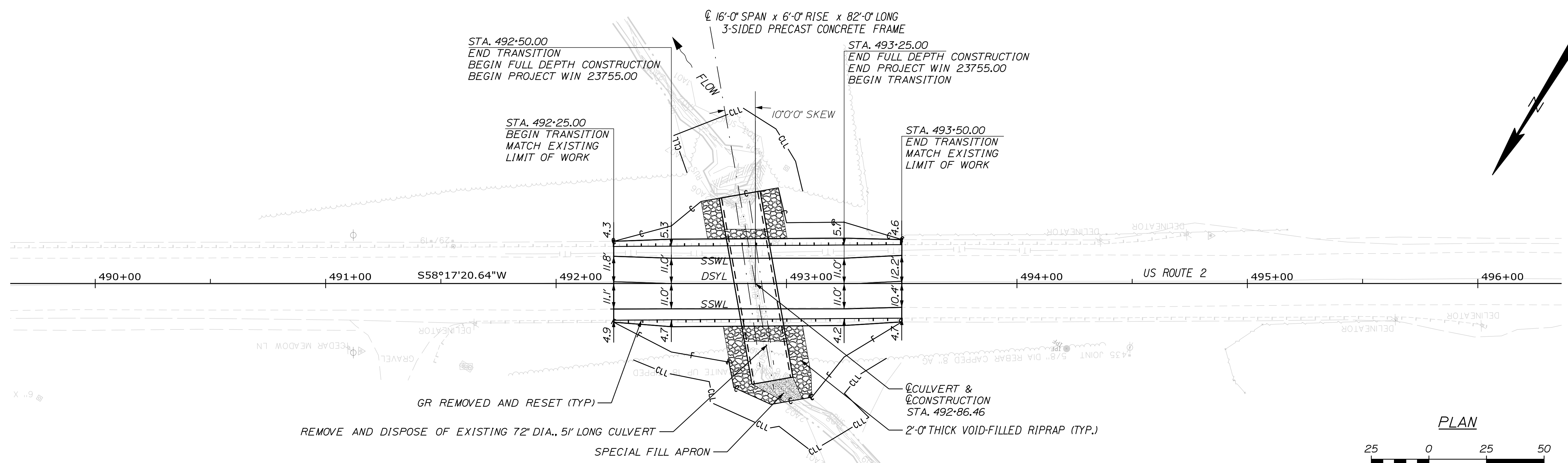
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Date: 1/18/2024

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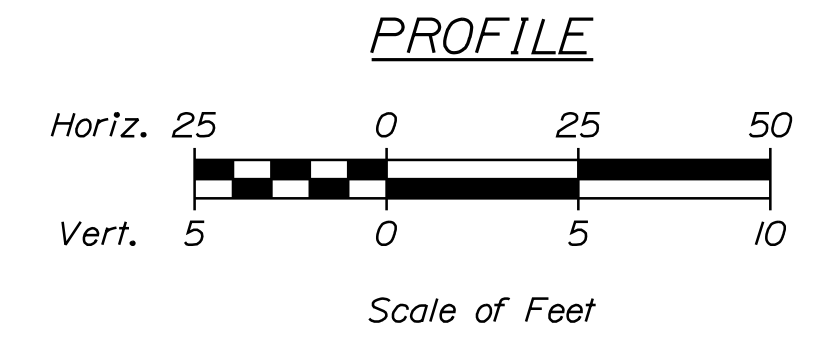
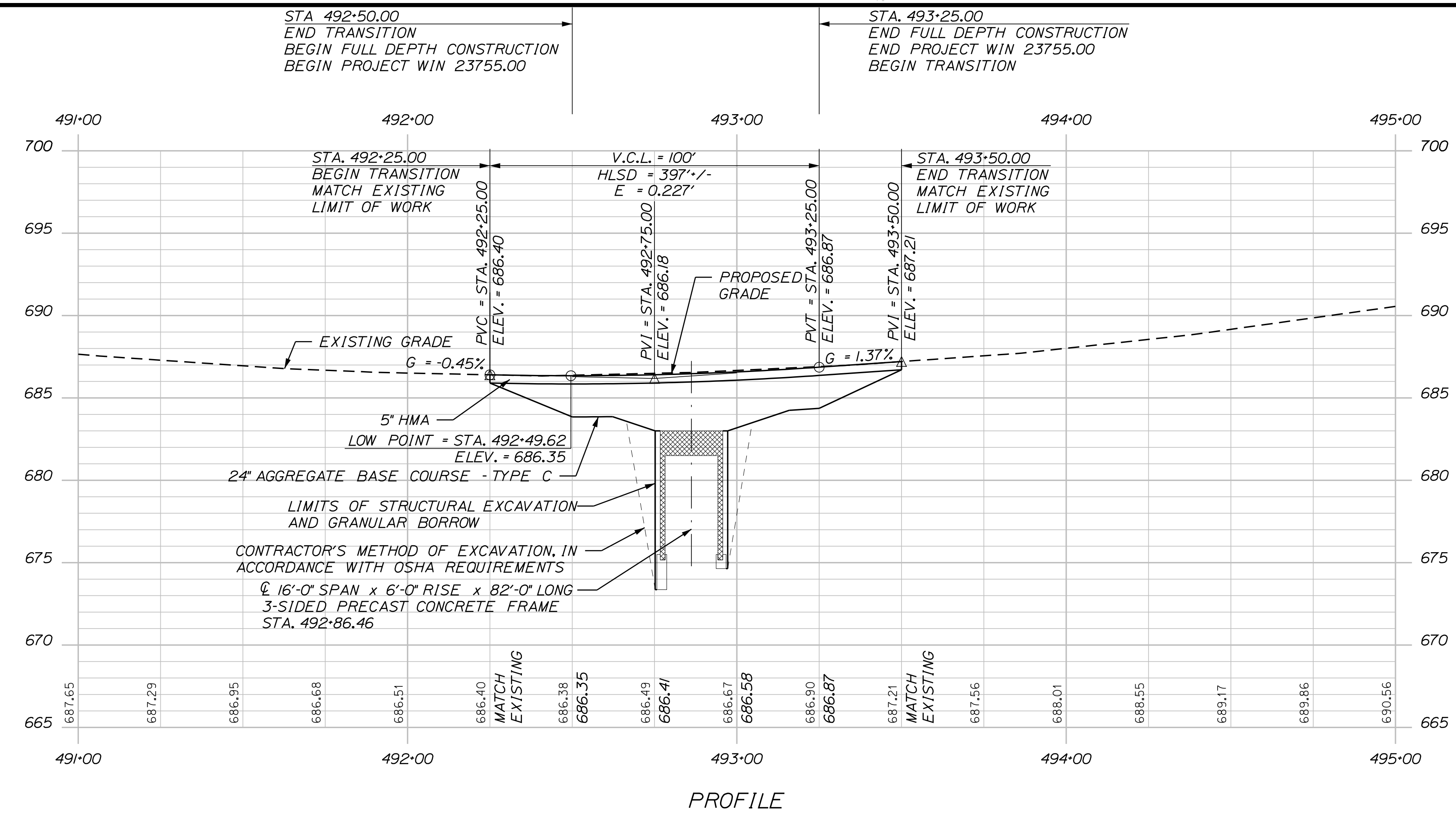
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PROPOSED CULVERT LAYOUT CONTROLS

PERPENDICULAR STATION	INLET INVERT CONROLS		OUTLET INVERT CONROLS	
	492+71.78	492+87.53	492+86.02	493+01.77
PERPENDICULAR OFFSET	37.18' LT	39.96' LT	43.57' RT	40.79' RT
INVERT ELEVATION	EL. 675.50'	EL. 675.50'	EL. 675.50'	EL. 675.50'



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2375500
WIN 23755.00
BRIDGE NO. 6637 REGIONAL PROGRAM

DATE
BY
ROGER SOUCY
L. KALLOCH
W. GORDON
S. FORTIER
J. BEAUBIET
SIGNATURE
P.E. NUMBER
DATE

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

SMYRNA
US ROUTE 2
PLAN AND PROFILE

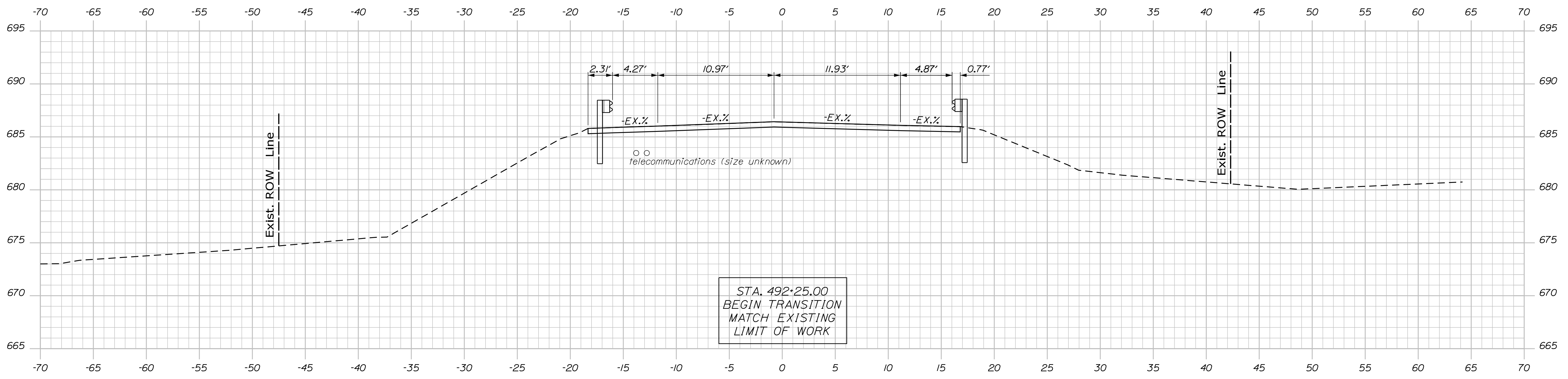
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OF 15

Date: 1/17/2024

Username: common

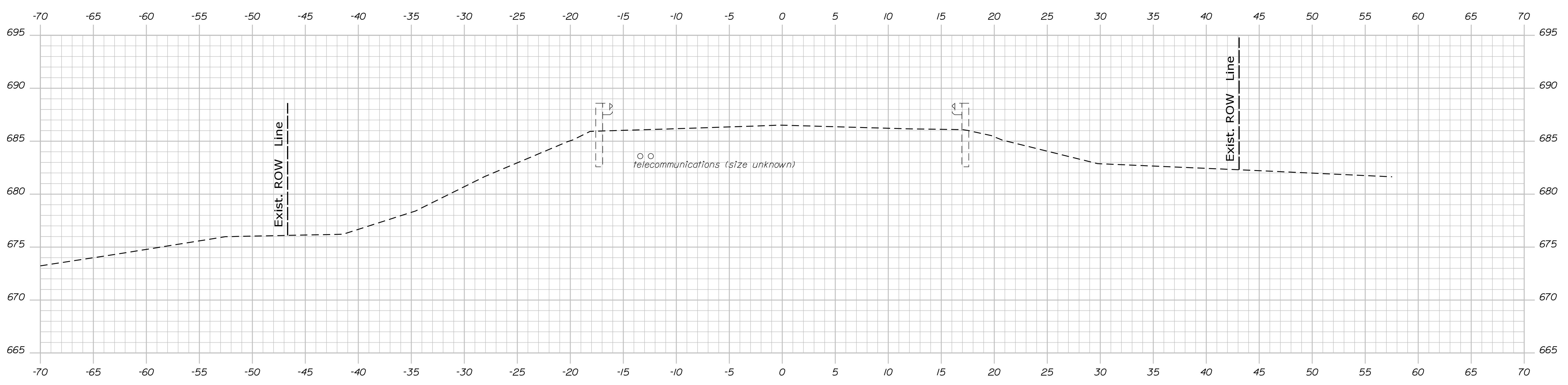
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STA. 492+25.00
 BEGIN TRANSITION
 MATCH EXISTING
 LIMIT OF WORK

492+25.00



492+00.00

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
2375500
 WIN
 2375500
 BRIDGE NO. 6637 REGIONAL PROGRAM

SIGNATURE
 P.E. NUMBER
 DATE

PROJ. MANAGER	ROGER SOUCY	BY	DATE
DESIGN DETAILED	L. KALLOCH	W. GORDON	
CHECKED/REVIEWED	S. FORTIER	J. BEAUBIET	
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SMYRNA
 US ROUTE 2
 CROSS SECTIONS

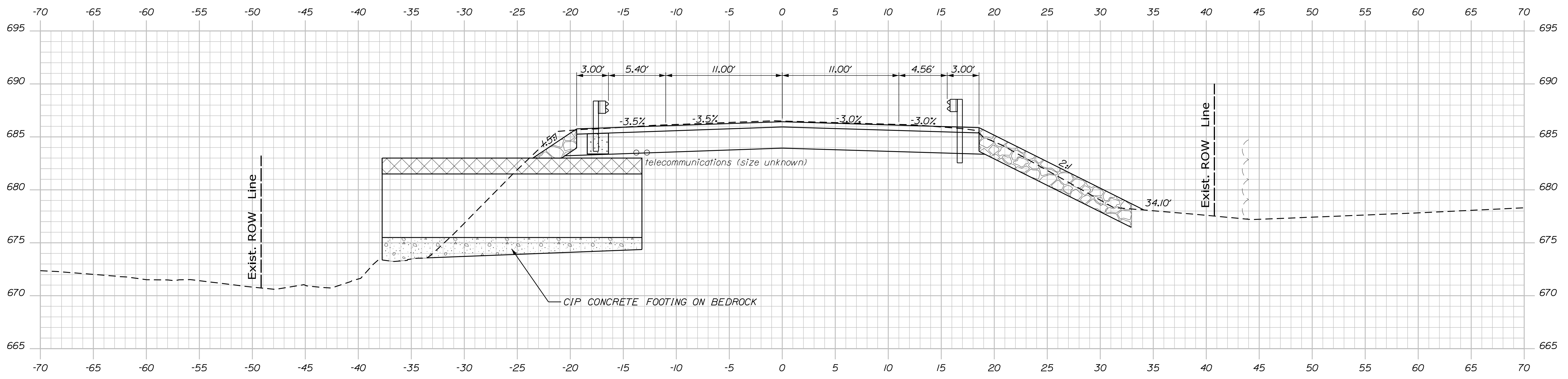
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 OF 15

Date: 1/17/2024

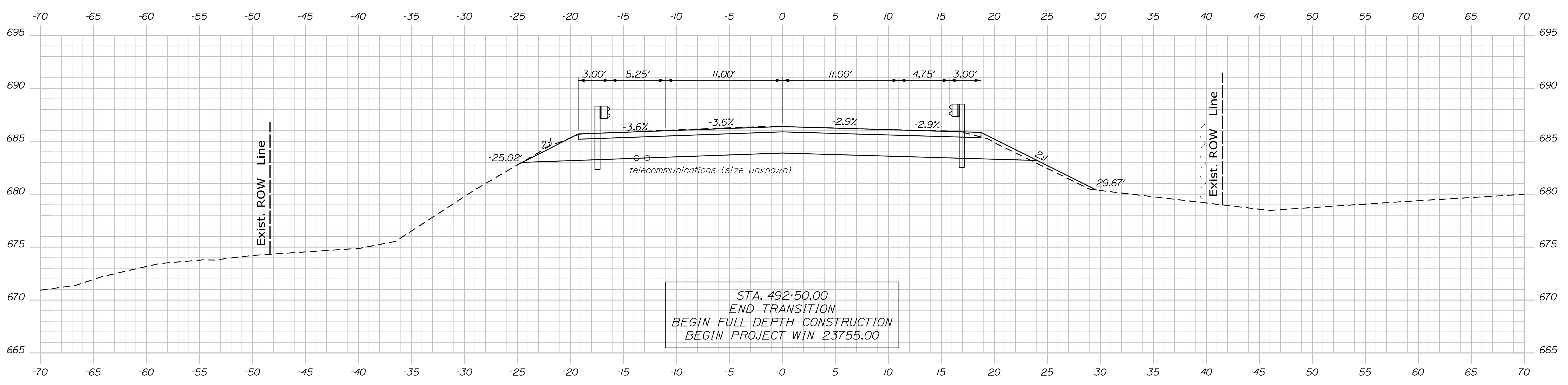
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Division: HIGHWAY

Filename: ... \Consultant\007_Xsect.dgn



492+75.00



STA. 492+50.00
 END TRANSITION
 BEGIN FULL DEPTH CONSTRUCTION
 BEGIN PROJECT WIN 23755.00

492+50.00

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 2375500
 WIN
 2375500
 BRIDGE NO. 6637 REGIONAL PROGRAM

SIGNATURE
 P.E. NUMBER
 DATE

PROJ. MANAGER	ROGER SOUCY	DATE
DESIGN-DETAILED	L. KALLOCH	
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REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SMYRNA
 US ROUTE 2
 CROSS SECTIONS

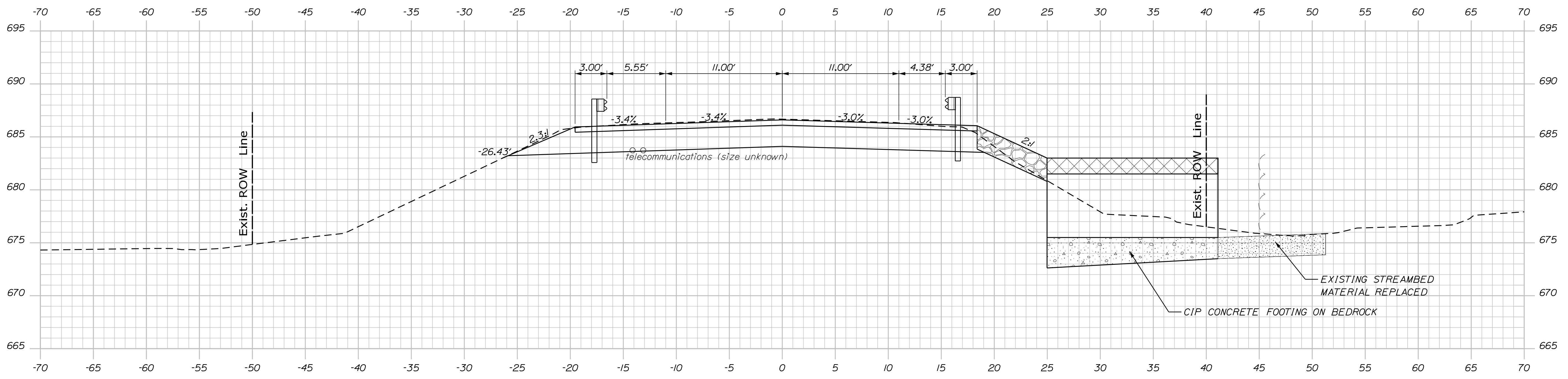
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 OF 15

Date: 1/18/2024

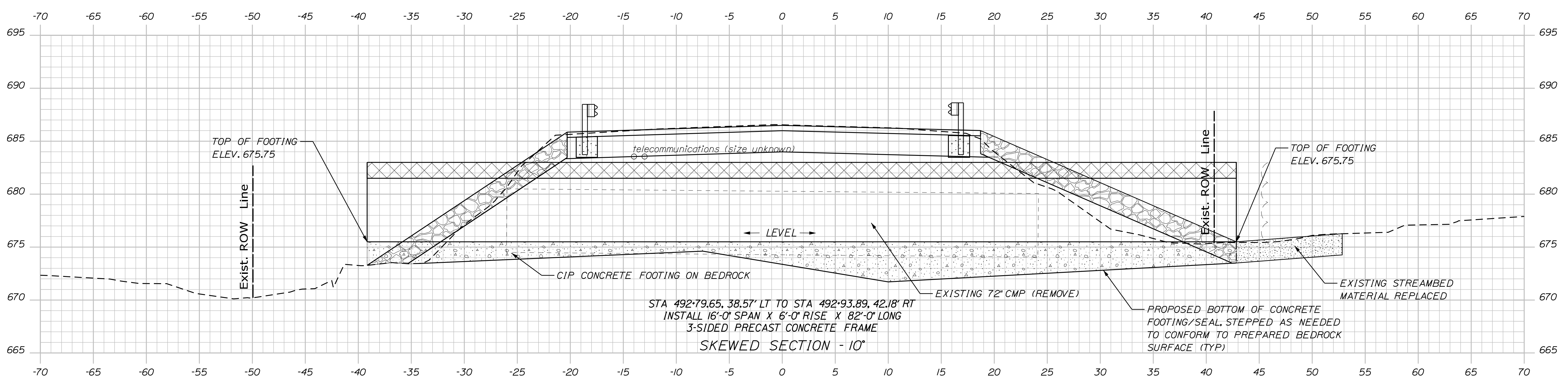
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Division: HIGHWAY

Filename: ... \Consultant\007_Xsect.dgn



493+00.00



492+86.46

DATE	SIGNATURE
BY	P.E. NUMBER
ROGER SOUCY	DATE
L. KALLOCH	
W. GORDON	
S. FORTIER	
J. BEAUBIET	

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

SMYRNA
US ROUTE 2
CROSS SECTIONS

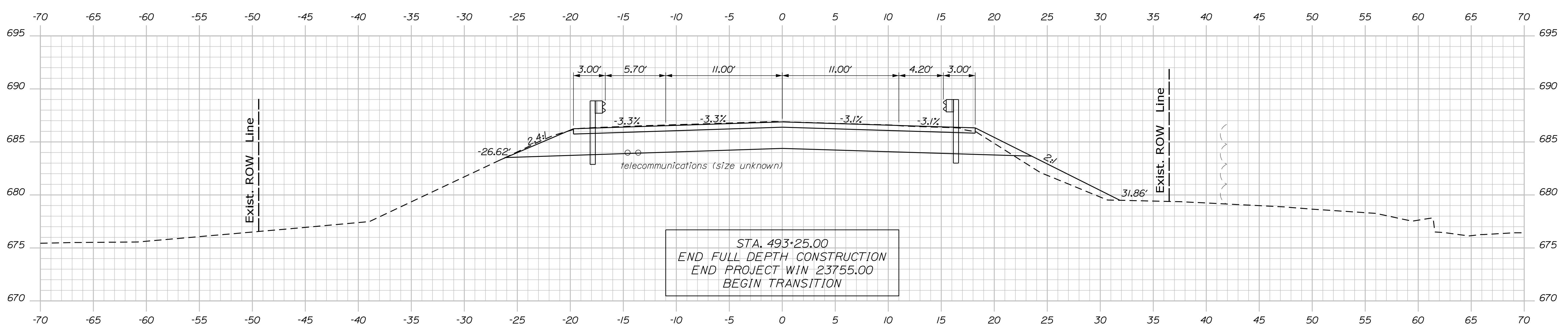
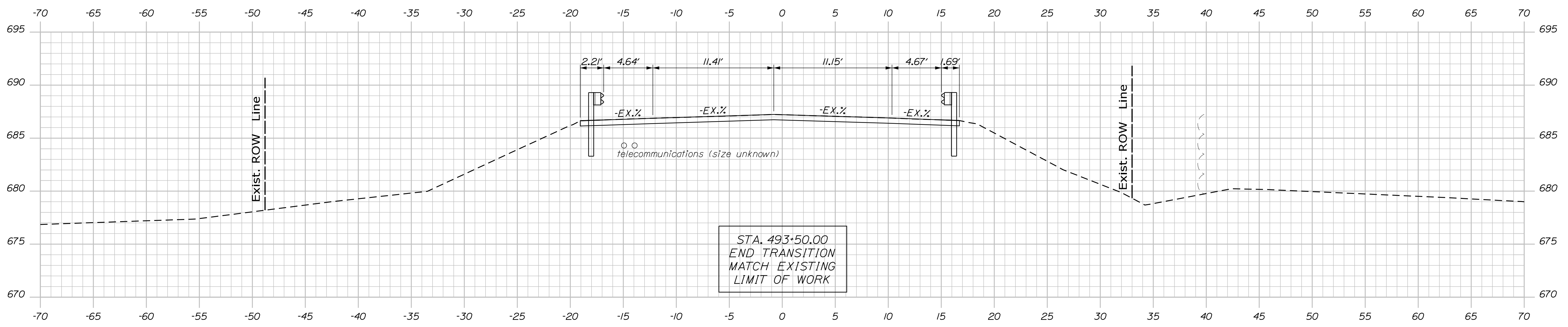
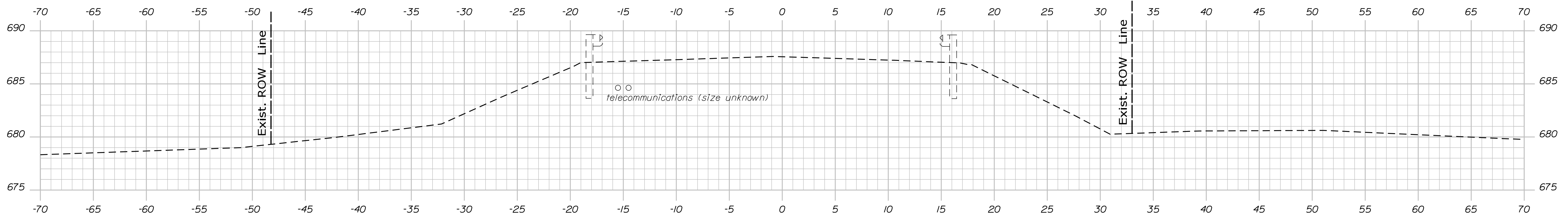
SHEET NUMBER
11
OF 15

Date: 1/17/2024

Username: common

Division: HIGHWAY

Filename: ... \Consultant\007_Xsect.dgn



STA. 493+50.00
 END TRANSITION
 MATCH EXISTING
 LIMIT OF WORK

STA. 493+25.00
 END FULL DEPTH CONSTRUCTION
 END PROJECT WIN 23755.00
 BEGIN TRANSITION

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 2375500
 WIN 2375500
 BRIDGE NO. 6637 REGIONAL PROGRAM

PROJ. MANAGER	ROGER SOUCY	DATE	
DESIGN-DETAILED	L. KALLOCH	BY	W. GORDON
CHECKED-REVIEWED	S. FORTIER		J. BEAUBIET
DESIGN-DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SMYRNA
 US ROUTE 2
 CROSS SECTIONS

SHEET NUMBER
 12
 OF 15

CONSTRUCTION SIGN SUMMARY

ITEM NUMBER	IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		AREA IN SQUARE FEET
		WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR		BACK-GROUND	LEGEND	
652.35	CS-1	60"	30"	ROAD CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY	6" 5" 4"	3.4" 3.4"		1	ORANGE	BLACK	12.50 (12.50)
652.35	CS-2	48"	36"	RTE 2 WEST CLOSED 1.9 MILES AHEAD USE DETOUR EXIT 286	4" 4" 4" 4"	3.0" 3.0" 3.0"		1	ORANGE	BLACK	12.00 (12.00)
652.35	CS-3	48"	36"	RTE 2 EAST CLOSED 4.2 MILES AHEAD MOTORIZED TRAFFIC USE DETOUR I-95	4" 4" 4" 4"	3.0" 3.0" 3.0"		2	ORANGE	BLACK	12.00 (24.00)
652.35	CS-4	48"	36"	RTE 2 EAST CLOSED 5.6 MILES AHEAD MOTORIZED TRAFFIC USE DETOUR I-95	4" 4" 4" 4"	3.0" 3.0" 3.0"		1	ORANGE	BLACK	12.00 (12.00)
652.35	CS-5	48"	36"	RTE 2 WEST CLOSED 1.6 MILES AHEAD MOTORIZED TRAFFIC USE DETOUR I-95	4" 4" 4" 4"	3.0" 3.0" 3.0"		1	ORANGE	BLACK	12.00 (12.00)
652.35	CS-6	60"	30"	ROAD CLOSED 1.3 MILES AHEAD LOCAL TRAFFIC ONLY	6" 5" 4"	3.4" 3.4"		1	ORANGE	BLACK	12.50 (12.50)
652.35	CS-7	48"	36"	RTE 2 EAST CLOSED 6.0 MILES AHEAD USE DETOUR EXIT 291	4" 4" 4" 4"	3.0" 3.0" 3.0"		1	ORANGE	BLACK	12.00 (12.00)
652.35	CS-8	48"	42"	RTE 2 WEST CLOSED 1.4 MILES AHEAD NON-MOTORIZED TRAFFIC USE SMYRNA CENTER RD	4" 4" 4" 4" 4"	3.0" 3.0" 3.0" 3.0"		1	ORANGE	BLACK	14.00 (14.00)
652.35	CS-9	48"	42"	RTE 2 EAST CLOSED 0.7 MILES AHEAD NON-MOTORIZED TRAFFIC USE SMYRNA CENTER RD	4" 4" 4" 4" 4"	3.0" 3.0" 3.0" 3.0"		1	ORANGE	BLACK	14.00 (14.00)
652.35	CS-10	30"	30"	ROUTE 2 DETOUR THIS EXIT	4" 4" 4"	3.0" 3.0"		2	ORANGE	BLACK	6.25 (12.50)
652.35	CS-11	30"	30"	ROUTE 2 CLOSED USE DETOUR	4" 4" 4"	3.0" 3.0"		4	ORANGE	BLACK	6.25 (25.00)
652.35	M4-8A	24"	18"	END DETOUR				2	ORANGE	BLACK	3.00 (6.00)
652.35	M4-9	30"	24"	DETOUR ↑				3	ORANGE	BLACK	5.00 (15.00)
652.35	M4-9R	30"	24"	DETOUR →				8	ORANGE	BLACK	5.00 (40.00)
652.35	M4-9L	30"	24"	DETOUR ←				5	ORANGE	BLACK	5.00 (25.00)
652.35	R11-2	48"	30"	ROAD CLOSED				2	ORANGE	BLACK	10.00 (20.00)
652.35	W20-3	48"	48"	ROAD CLOSED 500 FT				2	ORANGE	BLACK	16.00 (32.00)
652.35	W20-3	48"	48"	ROAD CLOSED 1000 FT				2	ORANGE	BLACK	16.00 (32.00)

NOTES:

- SIGN LOCATIONS ARE APPROXIMATE AND TO BE VERIFIED IN THE FIELD.
- INFORMATION SHOWN REFLECTS SIGNAGE FOR DETOUR PLANS ONLY. ADDITIONAL SIGNAGE IS REQUIRED FOR HIGHWAY CONSTRUCTION WORK.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN

23755.00

REGIONAL PROGRAM

BRIDGE NO. 6637

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	ROGER SOUCY	DATE
DESIGN-DETAILED	L. KALLOCH	
CHECKED-REVIEWED	W. GORDON	
DESIGN-DETAILED	J. BEAUBIET	
DESIGN-DETAILED	S. FORTIER	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SMYRNA
US ROUTE 2

SIGN SUMMARY

SHEET NUMBER

14

OF 15

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

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

PLAN LEGEND

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

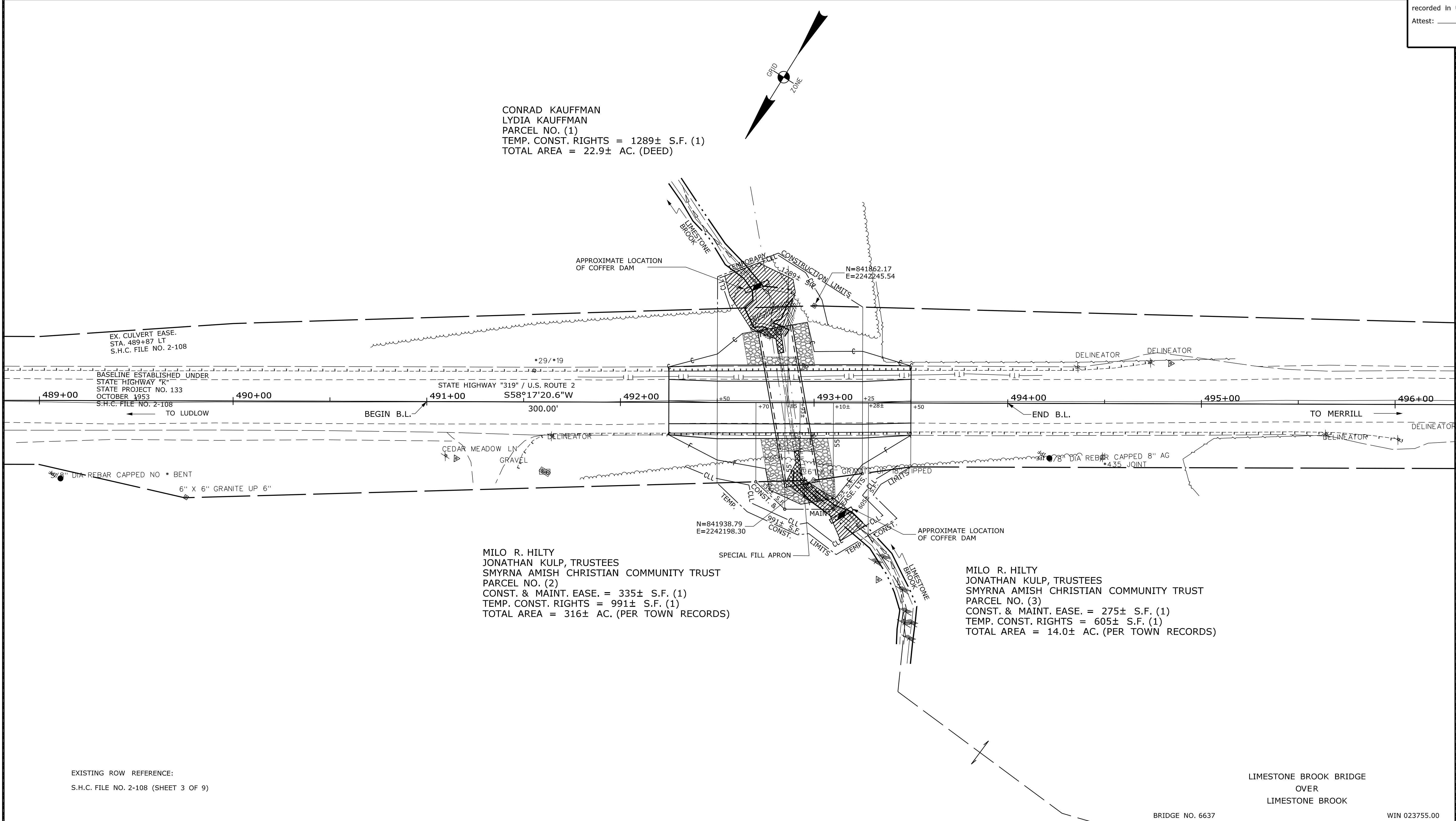
Cut Line _____
 Stonewall _____
 Baseline _____
 Monument _____
 Iron Rod Found _____
 Replacement Pin Set _____
 Fill Line _____
 Retaining Wall _____
 Traverse Point _____
 Pipe Found _____

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

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

STATE OF MAINE
 REGISTRY OF DEEDS

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



Date: \$date\$

Username: \$user\$

Division: \$wkgroup\$

Filename: \$file\$

ITEM	CHECKED	TECH		
		T.L.B.	D.H.	B.D.M.
EXISTING CONDITION PLAN				
FINAL RIGHT OF WAY				
AREAS				

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

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

BRUCE A. VAN NOTE
 COMMISSIONER
 JOYCE NOEL TAYLOR
 CHIEF ENGINEER

DATE _____

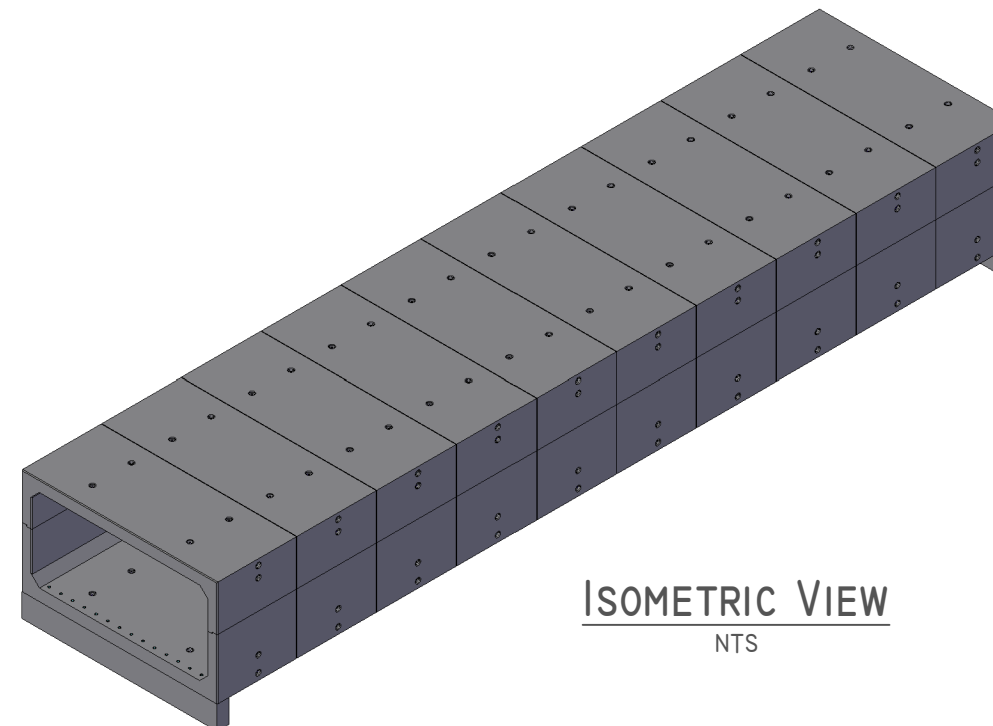
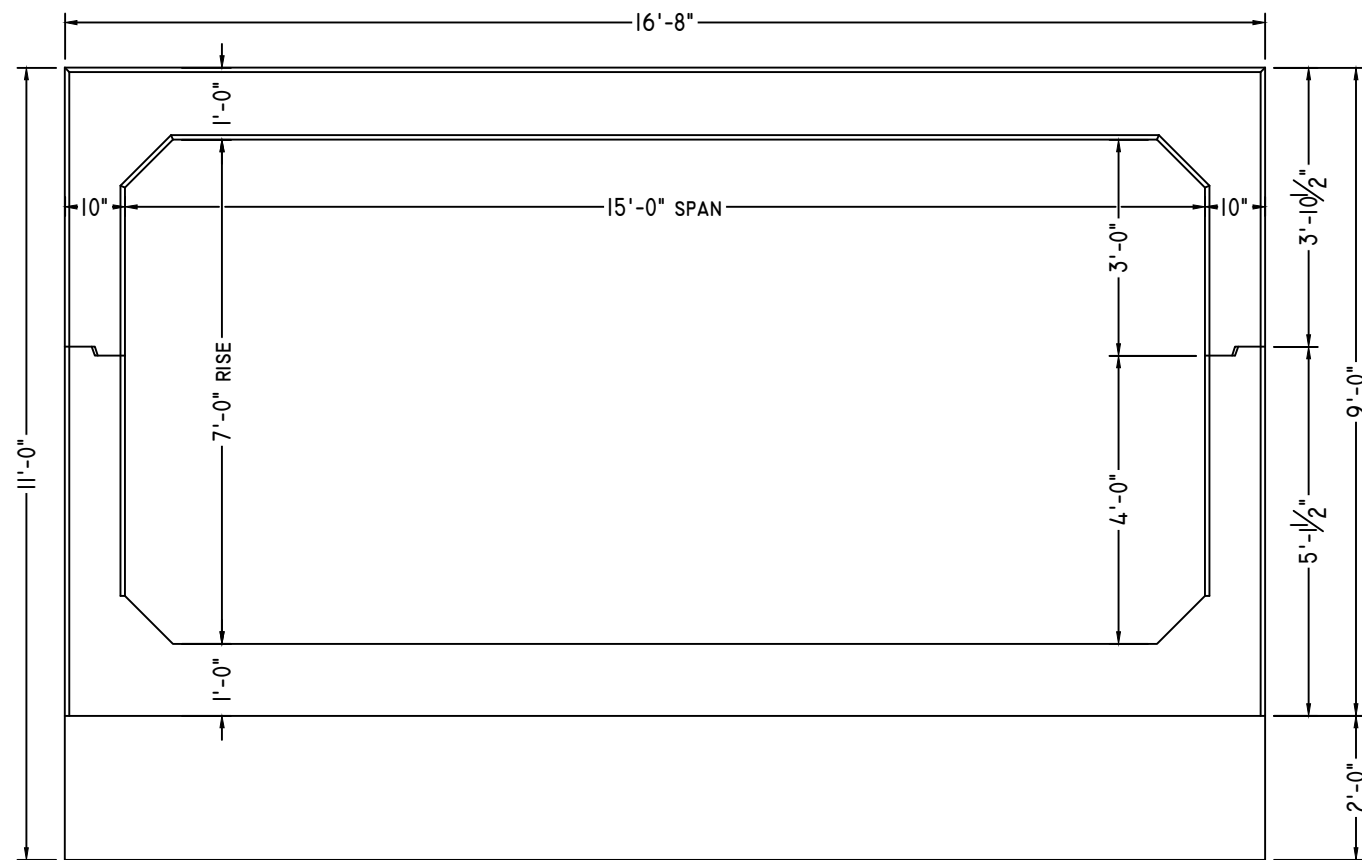
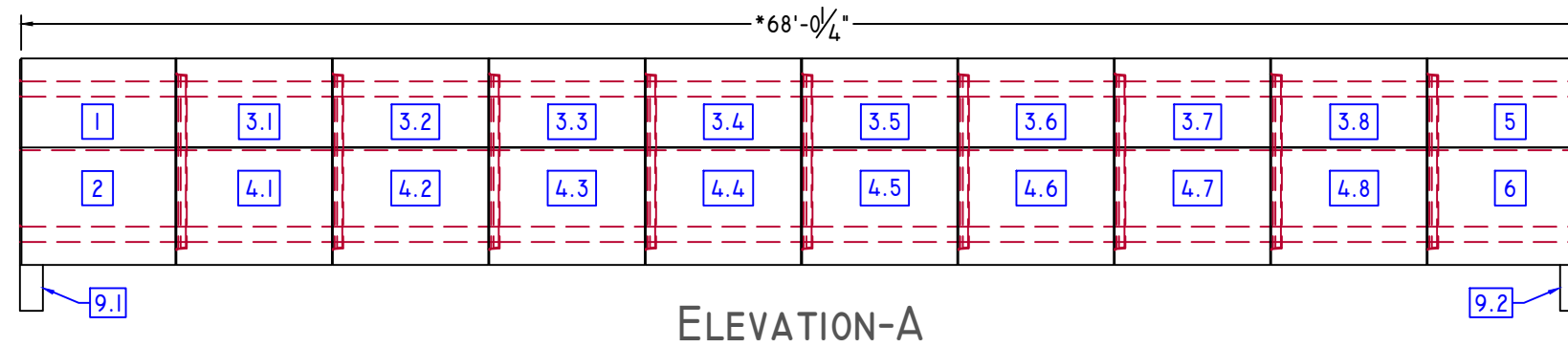
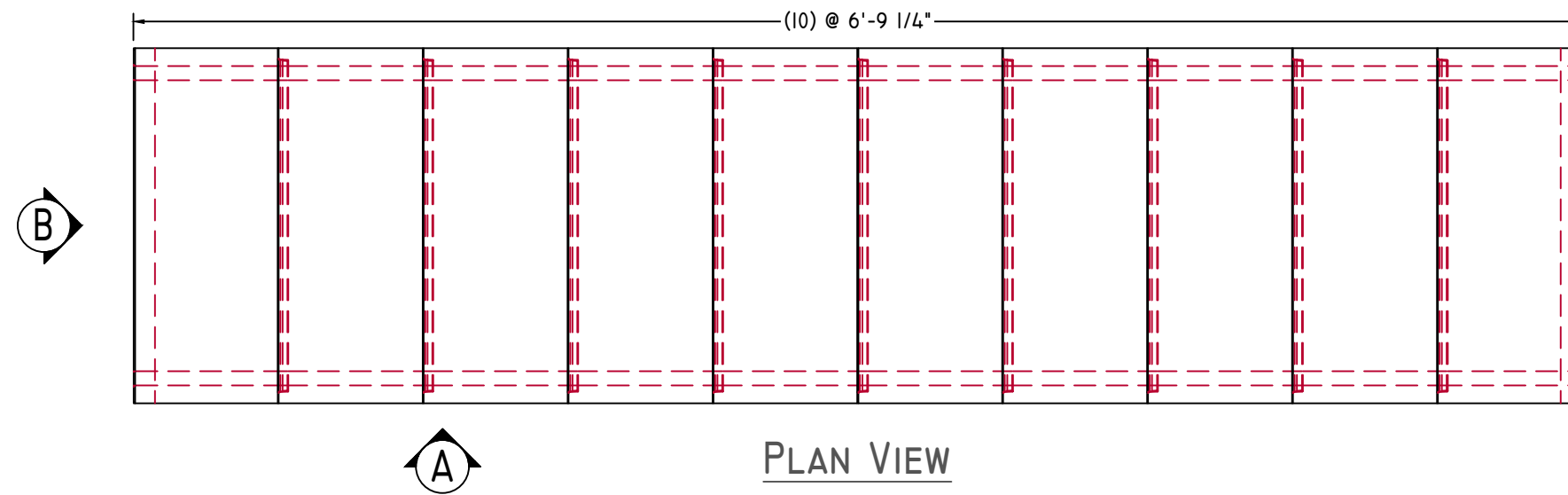
STATE HIGHWAY "319"
 U.S. ROUTE 2
 SMYRNA AROOSTOOK COUNTY
 FEDERAL AID PROJECT NO. 2375500

OCTOBER 2023
 SCALE 1" = 25'

RIGHT-OF-WAY MAP
 SHEET 1 OF 1

D.O.T. FILE NO. 2-648

SHEET NUMBER
15
 OF 15



OVERALL



American Concrete Industries
 1717 STILLWATER AVE. VEAZIE, ME. 04401
 TEL: 207-947-8334
 FAX: 207-947-3580
 WWW.AMERICANCONCRETE.COM

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	WEIGHT# EA
1	1	UPSTREAM END TOP	22,715
2	1	UPSTREAM END BOTTOM	24,590
3	8	MID SECTION TOP	22,265
4	8	MID SECTION BOTTOM	24,170
5	1	DOWNSTREAM END TOP	21,865
6	1	DOWNSTREAM END BOTTOM	23,660
9	2	1' x 2' x 16'-8" TOEWALL	4,870
10	28	#8 x 26" TOEWALL PIN (SHIPPED LOOSE)	

DESIGN NOTES:

1. **Concrete**
 - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 - 1.2. AIR-ENTRAINMENT: 5.5% MIN - 7.5% MAX
2. **Structural Reinforcement:**
 - 2.1. BAR PER ASTM A615, GRADE 60
 - 2.2. WWF PER ASTM A1064, GRADE 75
 - 2.3. SUPPLEMENTAL REINFORCING AS SHOWN (ONLY SHOWN IF REQUIRED.)
 - 2.4. DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
 - 2.5. 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
3. **Manufacturing / Installation:**
 - 3.1. *PROJECTED LENGTH WHEN FACTORING 1/2" GROWTH PER JOINT
 - 3.2. JOINTS SEALED WITH BUTYL RUBBER SEALANT.
 - 3.3. ALL JOINTS FILLED W/ NON-SHRINK GROUT AFTER INSTALLATION.
4. **Soil / Fill Requirements:**

MINIMUM ALLOWABLE FILL: 1.00'
 MAXIMUM ALLOWABLE FILL: 2.50'

NOTE: Some details not shown for clarity.
SCALE: 1/8" = 1'-0" Unless noted otherwise.

STRUCTURE NAME:
 15' x 7' x 68' CLAMHELL CULVERT

JOB NAME:
 RIDGE ROAD (WIN: 23697.10)

LOCATION:
 OAKFIELD, ME

CONTRACTOR:
 ME DOT

DRAWN BY: **SSM** DATE: 02/05/2024

REV.#: **0.00** DATE: 02/05/2024

CI.0

OVERALL



American Concrete Industries

1717 STILLWATER AVE. VEAZIE, ME. 04401

TEL: 207-947-8334

FAX: 207-947-3580

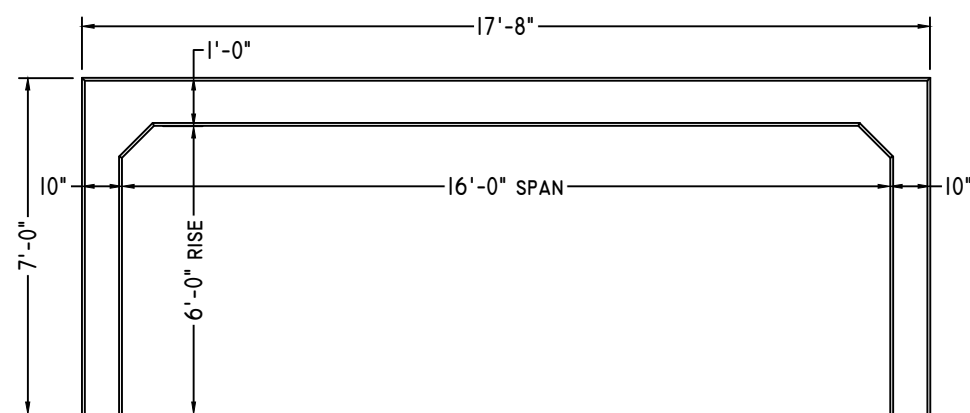
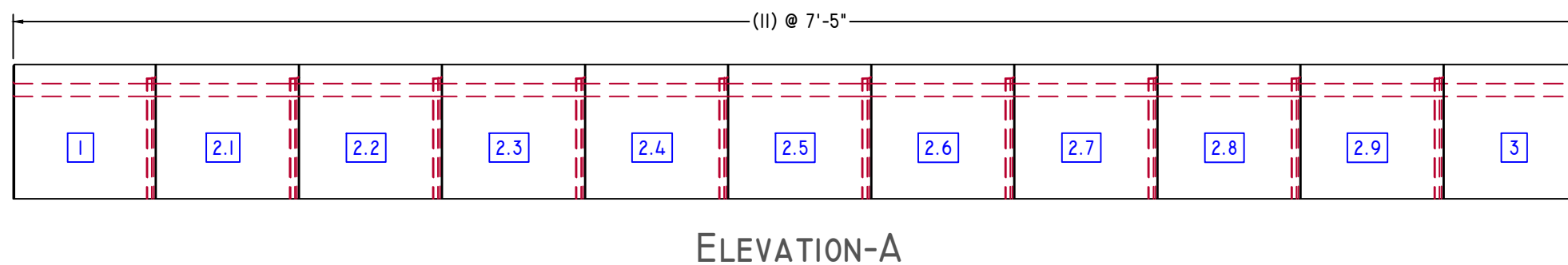
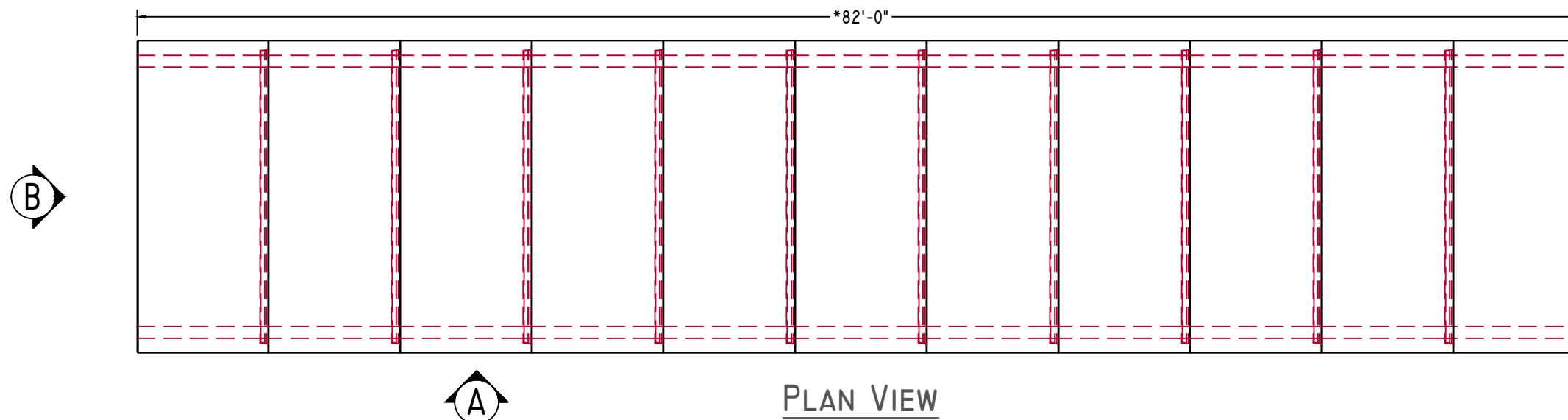
WWW.AMERICANCONCRETE.COM

BILL OF MATERIALS

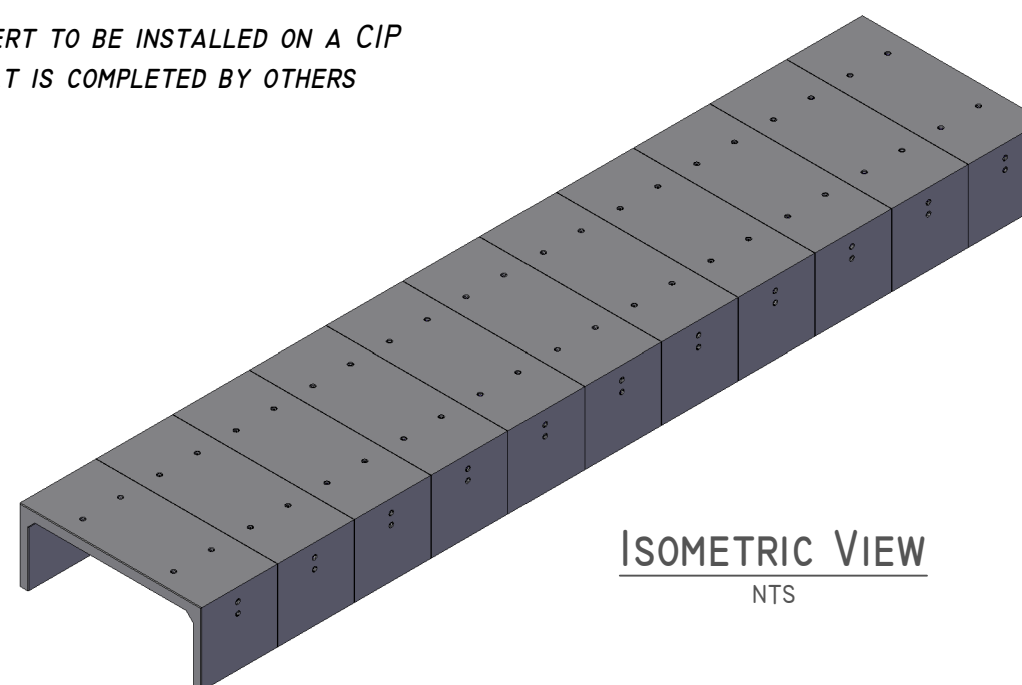
ITEM	QTY	DESCRIPTION	WEIGHT# EA
1	1	DOWNSTREAM END	30,635
2	9	MID SECTION	31,180
3	1	UPSTREAM END	31,755

DESIGN NOTES:

1. **Concrete**
 - 1.1. COMP. STRENGTH MIN. 5,000PSI @ 28 DAYS
 - 1.2. AIR-ENTRAINMENT: 5.5% MIN - 7.5% MAX
2. **Structural Reinforcement:**
 - 2.1. BAR PER ASTM A615, GRADE 60
 - 2.2. WWF PER ASTM A1064, GRADE 75
 - 2.3. SUPPLEMENTAL REINFORCING AS SHOWN (IF REQUIRED)
 - 2.4. DESIGNED FOR 125% HL-93 WHEEL LOAD RATING
 - 2.5. 2" CLR EXT., 1 1/2" CLR INT. UNLESS NOTED OTHERWISE
3. **Manufacturing / Installation:**
 - 3.1. *PROJECTED LENGTH WHEN FACTORING 1/2" GROWTH PER JOINT
 - 3.2. JOINTS SEALED WITH BUTYL RUBBER SEALANT.
 - 3.3. ALL JOINTS FILLED W/ NON-SHRINK GROUT AFTER INSTALLATION.
4. **Soil / Fill Requirements:**
 - MINIMUM ALLOWABLE FILL: 2.50'
 - MAXIMUM ALLOWABLE FILL: 3.60'



NOTE: CULVERT TO BE INSTALLED ON A CIP FOOTING THAT IS COMPLETED BY OTHERS



NOTE: Some details not shown for clarity.
SCALE: 1/8" = 1'-0" Unless noted otherwise.

STRUCTURE NAME: 16' x 6' x 82' THREE-SIDED CULVERT	
JOB NAME: SMYRNA, US ROUTE 2 (WIN: 23755.10)	
LOCATION: SMYRNA, ME	
CONTRACTOR: ME DOT	

DRAWN BY: SSM	DATE: 02/05/2024
REV.#: 0.00	DATE: 02/05/2024

CI.0