STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLAN LEGEND

Town, County, State		Catch Basins	Existing ■ Proposed
Property Lines		Manholes	Existing ● Proposed
R/W Lines-Existing		Proposed Underdrain	
R/W Lines-Proposed		Proposed Ditch	
Culvert-Existing		Existing Ditch	
Culvert Proposed		Utility Poles	Existing ◆ Proposed
Curbing	Existing / Proposed	Fire Hydrants	Existing ◆ Proposed
Type 1		Existing Water Line	
Type 3		Existing San. Sewer	
Type 5		Existing San. Sewer Manhole	
Outline of Bodies of Water		Guardrail-Existing	
Exposed Bedrock		Guardrail-Proposed	
Buildings		Guardrail-Cable, Other	
Trees	Conifer / Deciduous	Centerline-Existing	
Tree Line		Centerline-Proposed	10+00
Clearing Limit Line		Travelway-Existing	
Railroad		Travelway-Proposed	

Boring — HB-XXX-###

Pavement Core — PC-#

Test Pit — TP-XXX-###

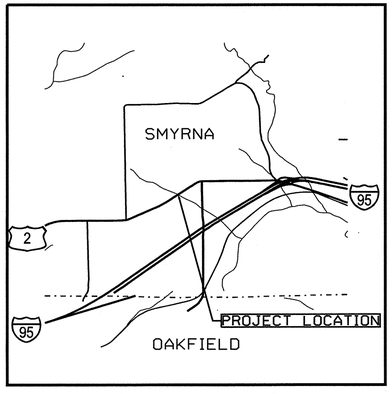
Probe — P-#.#X

#.# = Depth

X = W (Weathered Rock)
R (Refusal)
NR (No Refusal)

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



0 1 2

Scale in Miles

LOCATION MAP

SMYRNA

AROOSTOOK COUNTY

US ROUTE 2

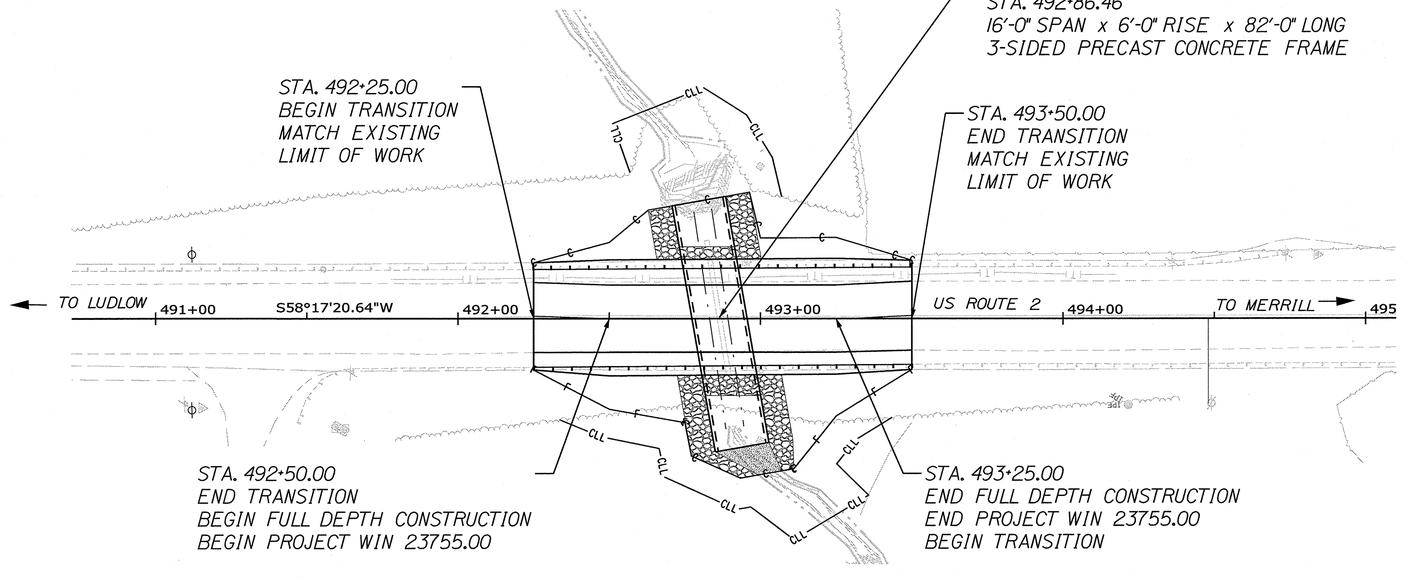
LIMESTONE BROOK BRIDGE

BRIDGE NO. 6637

FEDERAL PROJECT NO. 2375500

PROJECT LENGTH : 0.01 MILES

INDEX OF SHEETS



LAYOUT SCALE

25 0 25 50

Scale in Feet

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

WIN 23755.00 FEDERAL PROJECT NO. 2375500

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED

COMMISSIONER: DATE 2-23-24

CHIEF ENGINEER: DATE 2-23-24

STATE OF MAINE — LICENSED PROFESSIONAL ENGINEER — Liam B. Kalloch — 15070

SIGNATURE 15070

P.E. NUMBER 01-25-2024

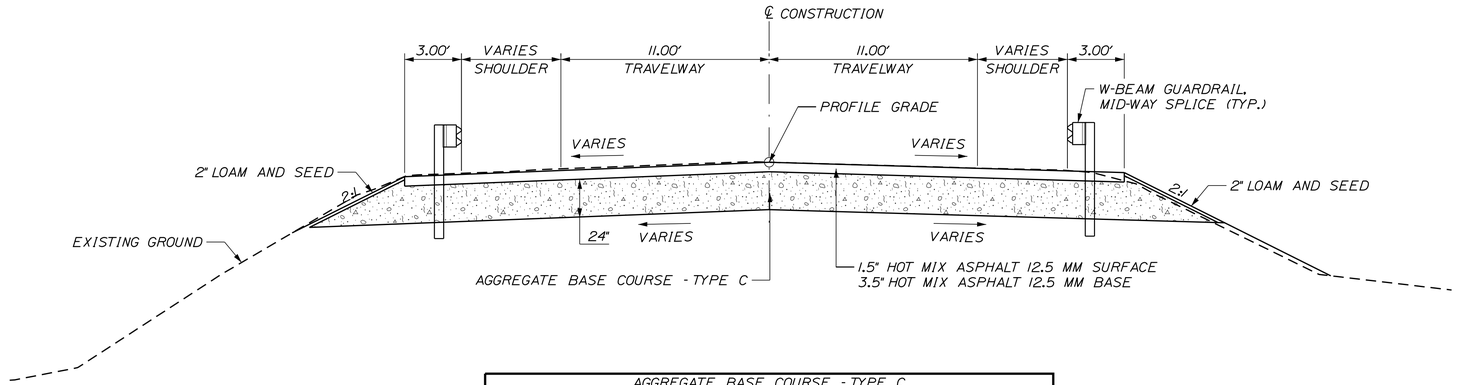
DATE

PROJECT INFORMATION	
PROGRAM	HIGHWAY
PROJECT MANAGER	ROGER SOUCY
DESIGNER	L. KALLOCH
CONSULTANT	CMA ENGINEERS, INC
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SMYRNA
US ROUTE 2

TITLE SHEET

SHEET NUMBER 1 OF 15



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	STATION TO STATION	STATION TO STATION
492+50 TO 493+25	492+50 TO 493+25	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

WIN 23755.00

BRIDGE NO. 6637 REGIONAL PROGRAM

PROJ. MANAGER	ROGER SOUCY	BY	DATE
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SMYRNA
US ROUTE 2

TYPICAL SECTIONS

SHEET NUMBER

2

OF 15

Filename: ...\Consultant\002_TypicalDgn Division: HIGHWAY Username: common Date:1/17/2024

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	LS
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

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

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

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

4. 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.

5. 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.

6. 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.

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

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

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

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

11. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

12. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL WILL BE CONSIDERED INCIDENTAL TO STANDARD SPECIFICATIONS SECTION 606, GUARDRAIL.

13. 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.

14. 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.

15. 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 MAINEDOT. ALL LAYOUT, STAKES, AND GRADES WILL BE CHECKED AND MUST BE ACCEPTABLE TO THE RESIDENT. (REHABILITATION ONLY)

16. 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.

17. 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 MAINEDOT WEBSITE 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. MAINEDOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS (IF ANY) PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.

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 23755.00 REGIONAL PROGRAM

PROJ. MANAGER	ROGER SOUCY		DATE
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

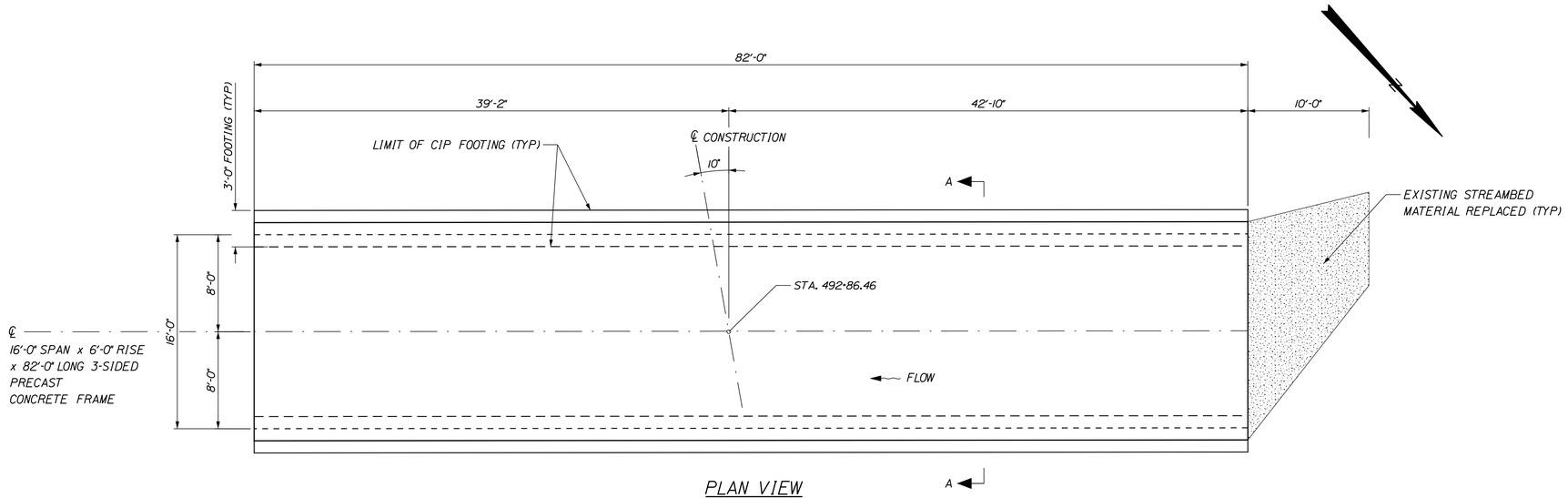
SMYRNA
U.S. ROUTE 2

ESTIMATED QUANTITIES AND GENERAL NOTES

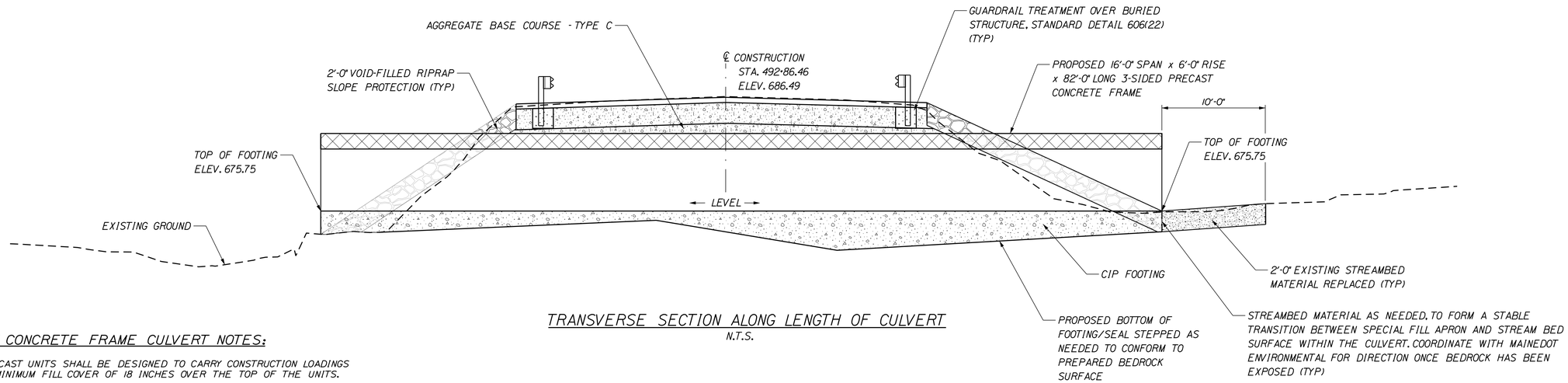
SHEET NUMBER

3

OF 15



PLAN VIEW
N.T.S.



TRANSVERSE SECTION ALONG LENGTH OF CULVERT
N.T.S.

PRECAST CONCRETE FRAME 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. THE CONSTRUCTION, HANDLING, AND ASSEMBLY OF THE PRECAST UNITS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 534 PRECAST STRUCTURAL CONCRETE, AND WITH THE MANUFACTURER'S SPECIFICATIONS AS APPLICABLE.
3. INSTALL MEMBRANE WATERPROOFING OVER THE TOP AND TO 12 INCHES DOWN THE EXTERIOR SIDES OF THE PRECAST UNITS.
4. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF THE CULVERT TO ALLOW WATER TO BE PUMPED AND REMOVED DURING CONSTRUCTION OF THE CULVERT. IF ADDITIONAL COFFERDAM(S) ARE REQUIRED TO CONSTRUCT THE FOOTINGS IN THE DRY, ALL COSTS FOR FOOTING COFFERDAM(S), INCLUDING PUMPING, MAINTENANCE, RELATED TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROLS, AND REMOVAL, WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS
5. VOID-FILLED RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET. SEE PLAN AND PROFILE FOR LOCATIONS. RIPRAP ADJACENT TO THE CULVERT AND IT'S FOOTINGS SHALL BE CAREFULLY PLACED SO AS NOT TO DAMAGE THE STRUCTURE AND SO THAT THE FINISHED SLOPE WILL MATCH THE ENDS OF THE CULVERT. ANY EXTRA LABOR, MATERIAL OR EQUIPMENT USED WILL BE INCIDENTAL TO ITEM 610.213 VOID-FILLED RIPRAP. ANY DAMAGE TO THE STRUCTURE DURING CONSTUCTION SHALL BE REPAIRED OR REPLACED AS DETERMINED BY THE RESIDENT AT THE CONRACTOR'S EXPENSE.
6. PLACE INDIVIDUAL STONES IN THE STREAMBED, AS DIRECTED BY THE RESIDENT AND/OR MAINEDOT ENVIRONMENTAL STAFF. ONCE THE BEDROCK SURFACE HAS BEEN EXPOSED (TYP).

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN 23755.00

BRIDGE NO. 6637 REGIONAL PROGRAM

PROJ. MANAGER	ROGER SOUCY		
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DESIGN2-DETAILED2	J. BEAUDET		
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BY | DATE

SIGNATURE

P.E. NUMBER

DATE

SMYRNA
US ROUTE 2

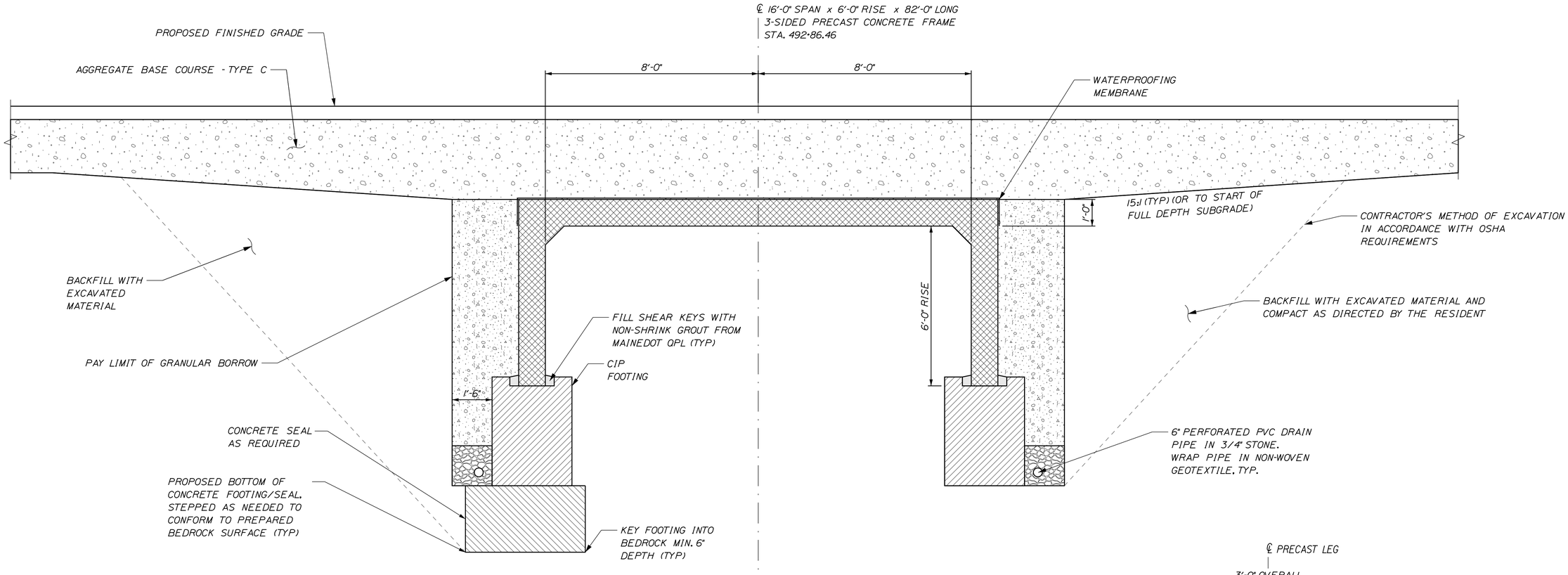
SPECIAL DETAILS

SHEET NUMBER

4

OF 15

Filename: ...\Consultant\005_Detail.dgn Division: HIGHWAY Username: common Date:1/18/2024

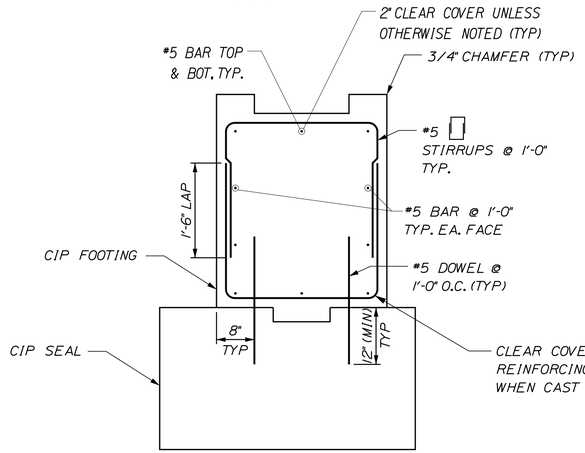


TYPICAL CULVERT SECTION A-A

1" = 1'-0"

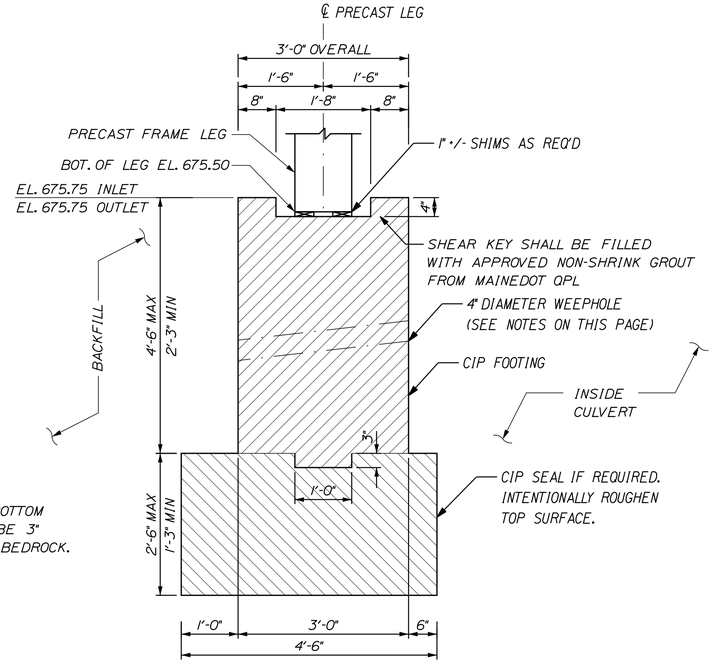
CIP FOOTING NOTES:

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 SPECIFCATION 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 PROPARATION 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 ¾" 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 FOOTING REINFORCING

¾" = 1'-0"



TYPICAL FOOTING

¾" = 1'-0"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN 23755.00

BRIDGE NO. 6637 REGIONAL PROGRAM

		BY	DATE
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SIGNATURE

P.E. NUMBER

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SMYRNA
US ROUTE 2

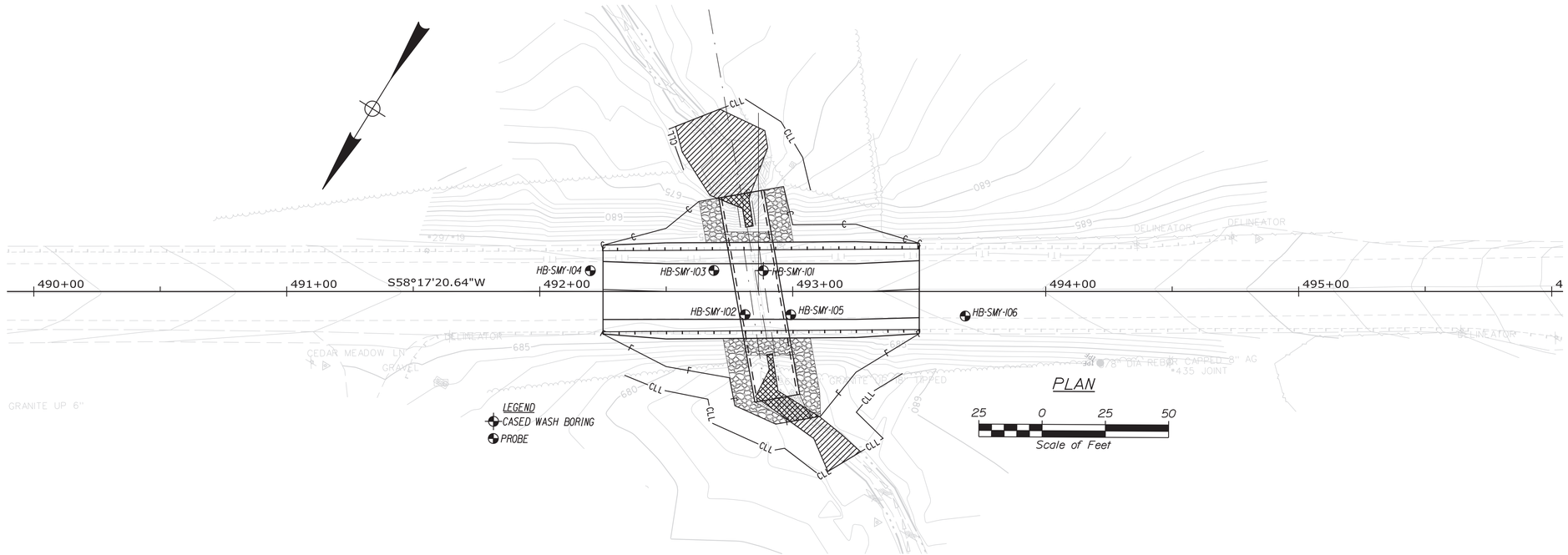
SPECIAL DETAILS

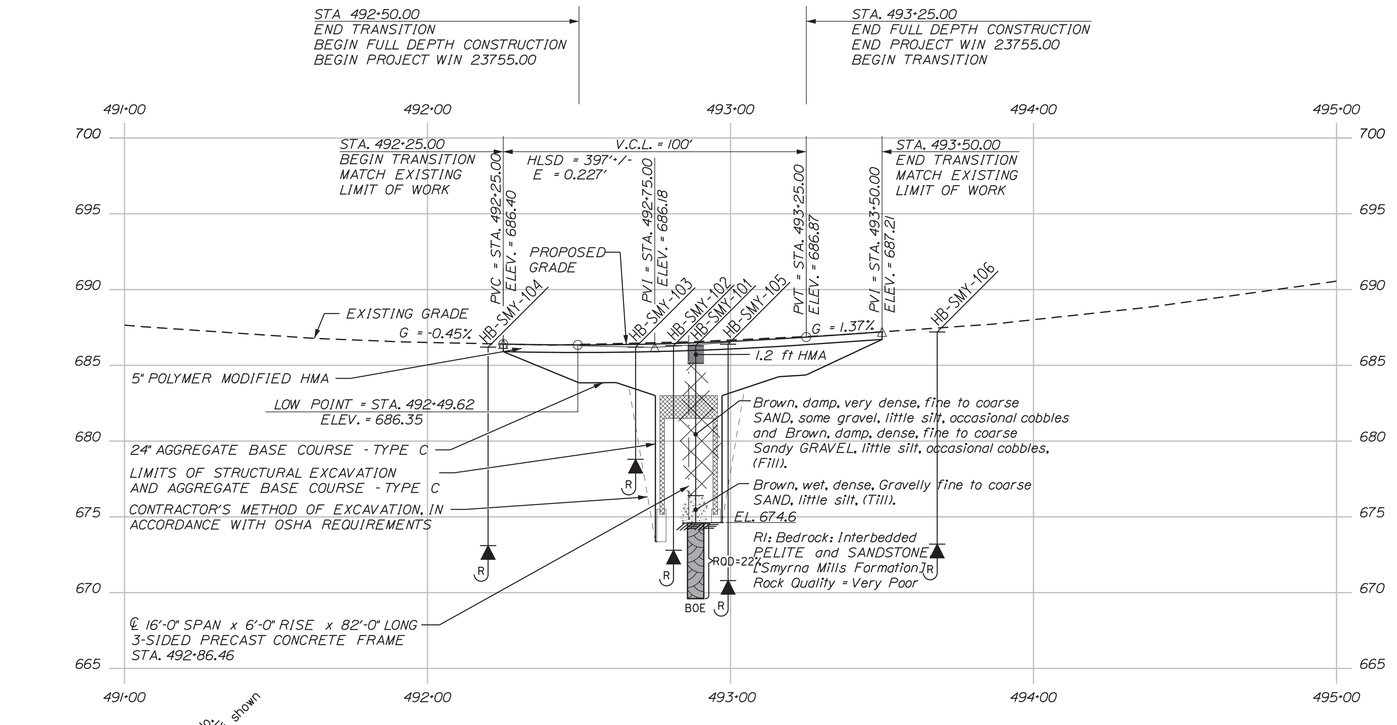
SHEET NUMBER

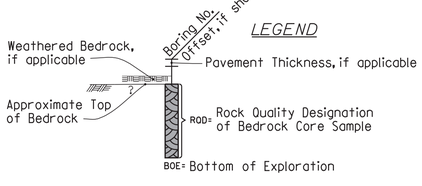
5

OF 15

Filename: ...\Consultant\005_Detail.dgn Division: HIGHWAY Username: common Date:1/18/2024







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

STATE OF MAINE
Kathleen Maguire
7120
Licensed
PROFESSIONAL ENGINEER

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

	R. SOUCY	DATE
PROJ. MANAGER		
DESIGN-DETAILED		
CHECKED-REVIEWED	WED	JAN 2024
DESIGN2-DETAILED2	K.MAGUIRE	T. WHITE
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SMYRNA
U.S. ROUTE 2

BORING LOCATION PLAN &
INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER
6
OF 15

Filename: ...\GEOTECH\MSTA\006_BLP&ISP1.dgn Division: GEOTECH Username: Kate.Maguire Date:1/12/2024

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Large Culvert Replacement on Route 2
Location: Smyrna, Maine

Boring No.: HB-SMY-101
WIN: 23755.00

Driller:	MaineDOT	Elevation (ft.): 686.3	Auger ID/OD: 5" Dia.
Operator:	Daggett/Niles	Datum: NAVD88	Sampler: N/A
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: N/A
Date Start/Finish:	9/5/2018 08:00-13:00	Drilling Methods: Solid Stem Auger	Core Barrel: N/A
Boring Location:	492+88.5, 8.2 ft Lt.	Casing ID/OD: N/A	Water Level*: 6.0 ft bgs.

Hammer Efficiency Factor: 0.928 — Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Cathead ☐

Definitions:
S = Sample off Auger Flights
B = Bucket Sample off Auger Flights
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP= Pocket Penetrometer
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
MDH = Weight of 140lb. Hammer
MDHP = Weight of 1 Person
MCR/C = Weight of Rods or Casing
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (tsf)
N-value = Raw Field SPT N-value
T_v = Pocket Torvane Shear Strength (psf)
MC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test
N$_{60}$ = SPT N-uncorrected Corrected for Hammer Efficiency
N$_{60}$ = Hammer Efficiency Factor*(SPT N-Uncorrected)

Sample Information

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA			14" HMA	
	1D	24/18	1.50 - 3.50	23/22/19/17	41	63	685.1		1.2 Brown, damp, very dense, fine to coarse SAND, some gravel, little silt, occasional cobble. (Fill).	GM29621 A-1-b(0), SM WC=4.1%
5	2D	24/14	5.00 - 7.00	15/14/9/9	23	36	677.3		9.0 Brown, damp, dense, fine to coarse Sandy GRAVEL, little silt, occasional cobble. (Fill).	GM29622 A-1-b(0), GW WC=5.9%
10	3D	20.4/20.4	10.00 - 11.70	8/16/14/30(2.4"):	30	46				GM29623 A-1-b(0), SW-SM WC=10.4%
	R1	60/60	11.70 - 16.70	RQD = 22%			NQ-2		11.7 Top of Bedrock at Elev. 674.6 ft. R1: Bedrock: Interbedded pelite and ilmestone and/or dolostone (Carys Mills Formation). R1: Core Times (min:sec) 11.7-12.7 ft (9:57) 12.7-13.7 ft (4:27) 13.7-14.7 ft (4:32) 14.7-15.7 ft (5:10) 15.7-16.7 ft (5:15) 100% Recovery Rock Quality = Very Poor	
15							669.6		16.7 Bottom of Exploration at 16.7 feet below ground surface.	
20										
25										

Remarks:

Stratification lines represent approximate boundaries between soil typesr 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-SMY-101

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Large Culvert Replacement on Route 2
Location: Smyrna, Maine

Boring No.: HB-SMY-102
WIN: 23755.00

Drilling Contractor:	MaineDOT	Elevation (ft.): 686.3	Auger ID/OD: 5" Dia.
Operator:	Daggett/Niles	Datum: NAVD88	Sampler: N/A
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: N/A
Date Start/Finish:	9/5/2018	Drilling Methods: Solid Stem Auger	Core Barrel: N/A
Boring Location:	492+81.2, 9.3 ft Rt.	Casing ID/OD: N/A	Water Level*: None Observed

Definitions:
S = Sample off Auger Flights
B = Bucket Sample off Auger Flights
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP= Pocket Penetrometer
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
MDH = Weight of 140lb. Hammer
MDHP = Weight of 1 Person
MCR/C = Weight of Rods or Casing
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (tsf)
N-value = Raw Field SPT N-value
T_v = Pocket Torvane Shear Strength (psf)
MC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Sample Information

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA			Probe, no samples taken. Soils similar to HB-SMY-101.	
5										
10										
15							672.8		13.5 Bottom of Exploration at 13.5 feet below ground surface. REFUSAL	
20										
25										

Remarks:

Stratification lines represent approximate boundaries between soil typesr 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-SMY-102

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Large Culvert Replacement on Route 2
Location: Smyrna, Maine

Boring No.: HB-SMY-103
WIN: 23755.00

Drilling Contractor:	MaineDOT	Elevation (ft.): 686.2	Auger ID/OD: 5" Dia.
Operator:	Daggett/Niles	Datum: NAVD88	Sampler: N/A
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: N/A
Date Start/Finish:	9/5/2018	Drilling Methods: Solid Stem Auger	Core Barrel: N/A
Boring Location:	492+68.4, 8.1 ft Lt.	Casing ID/OD: N/A	Water Level*: None Observed

Definitions:
S = Sample off Auger Flights
B = Bucket Sample off Auger Flights
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP= Pocket Penetrometer
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
MDH = Weight of 140lb. Hammer
MDHP = Weight of 1 Person
MCR/C = Weight of Rods or Casing
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (tsf)
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T_v = Pocket Torvane Shear Strength (psf)
MC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Sample Information

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA			Probe, no samples taken. Soils similar to HB-SMY-101.	
5										
10										
15							678.8		7.4 Bottom of Exploration at 7.4 feet below ground surface. REFUSAL	
20										
25										

Remarks:

Stratification lines represent approximate boundaries between soil typesr 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-SMY-103

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Large Culvert Replacement on Route 2
Location: Smyrna, Maine

Boring No.: HB-SMY-104
WIN: 23755.00

Drilling Contractor:	MaineDOT	Elevation (ft.): 686.2	Auger ID/OD: 5" Dia.
Operator:	Daggett/Niles	Datum: NAVD88	Sampler: N/A
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: N/A
Date Start/Finish:	9/5/2018	Drilling Methods: Solid Stem Auger	Core Barrel: N/A
Boring Location:	492+20, 8.3 ft Lt.	Casing ID/OD: N/A	Water Level*: None Observed

Definitions:
S = Sample off Auger Flights
B = Bucket Sample off Auger Flights
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP= Pocket Penetrometer
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
MDH = Weight of 140lb. Hammer
MDHP = Weight of 1 Person
MCR/C = Weight of Rods or Casing
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (tsf)
N-value = Raw Field SPT N-value
T_v = Pocket Torvane Shear Strength (psf)
MC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Sample Information

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA			Probe, no samples taken. Soils similar to HB-SMY-101.	
5										
10										
15							673.1		13.1 Bottom of Exploration at 13.1 feet below ground surface. REFUSAL	
20										
25										

Remarks:

Stratification lines represent approximate boundaries between soil typesr 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-SMY-104

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Large Culvert Replacement on Route 2
Location: Smyrna, Maine

Boring No.: HB-SMY-105
WIN: 23755.00

Drilling Contractor:	MaineDOT	Elevation (ft.): 686.4	Auger ID/OD: 5" Dia.
Operator:	Daggett/Niles	Datum: NAVD88	Sampler: N/A
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: N/A
Date Start/Finish:	9/5/2018	Drilling Methods: Solid Stem Auger	Core Barrel: N/A
Boring Location:	492+99.2, 9.2 ft Rt.	Casing ID/OD: N/A	Water Level*: None Observed

Definitions:
S = Sample off Auger Flights
B = Bucket Sample off Auger Flights
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP= Pocket Penetrometer
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
MDH = Weight of 140lb. Hammer
MDHP = Weight of 1 Person
MCR/C = Weight of Rods or Casing
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (tsf)
N-value = Raw Field SPT N-value
T_v = Pocket Torvane Shear Strength (psf)
MC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Sample Information

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA			Probe, no samples taken. Soils similar to HB-SMY-101.	
5										
10										
15							670.8		15.6 Bottom of Exploration at 15.6 feet below ground surface. REFUSAL	
20										
25										

Remarks:

Stratification lines represent approximate boundaries between soil typesr 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-SMY-105

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Large Culvert Replacement on Route 2
Location: Smyrna, Maine

Boring No.: HB-SMY-106
WIN: 23755.00

Drilling Contractor:	MaineDOT	Elevation (ft.): 687.2	Auger ID/OD: 5" Dia.
Operator:	Daggett/Niles	Datum: NAVD88	Sampler: N/A
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: N/A
Date Start/Finish:	9/5/2018	Drilling Methods: Solid Stem Auger	Core Barrel: N/A
Boring Location:	493+68.2, 9.7 ft Rt.	Casing ID/OD: N/A	Water Level*: None Observed

Definitions:
S = Sample off Auger Flights
B = Bucket Sample off Auger Flights
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP= Pocket Penetrometer
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
MDH = Weight of 140lb. Hammer
MDHP = Weight of 1 Person
MCR/C = Weight of Rods or Casing
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (tsf)
N-value = Raw Field SPT N-value
T_v = Pocket Torvane Shear Strength (psf)
MC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Sample Information

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA			Probe, no samples taken. Soils similar to HB-SMY-101.	
5										
10										
15							673.2		14.0 Bottom of Exploration at 14.0 feet below ground surface. REFUSAL	
20										
25										

Remarks:

Stratification lines represent approximate boundaries between soil typesr 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-SMY-106

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

02375500
WIN 23755.00

HIGHWAY PLANS

STATE OF MAINE — Kathleen Maguire — 7120 — PROFESSIONAL ENGINEER

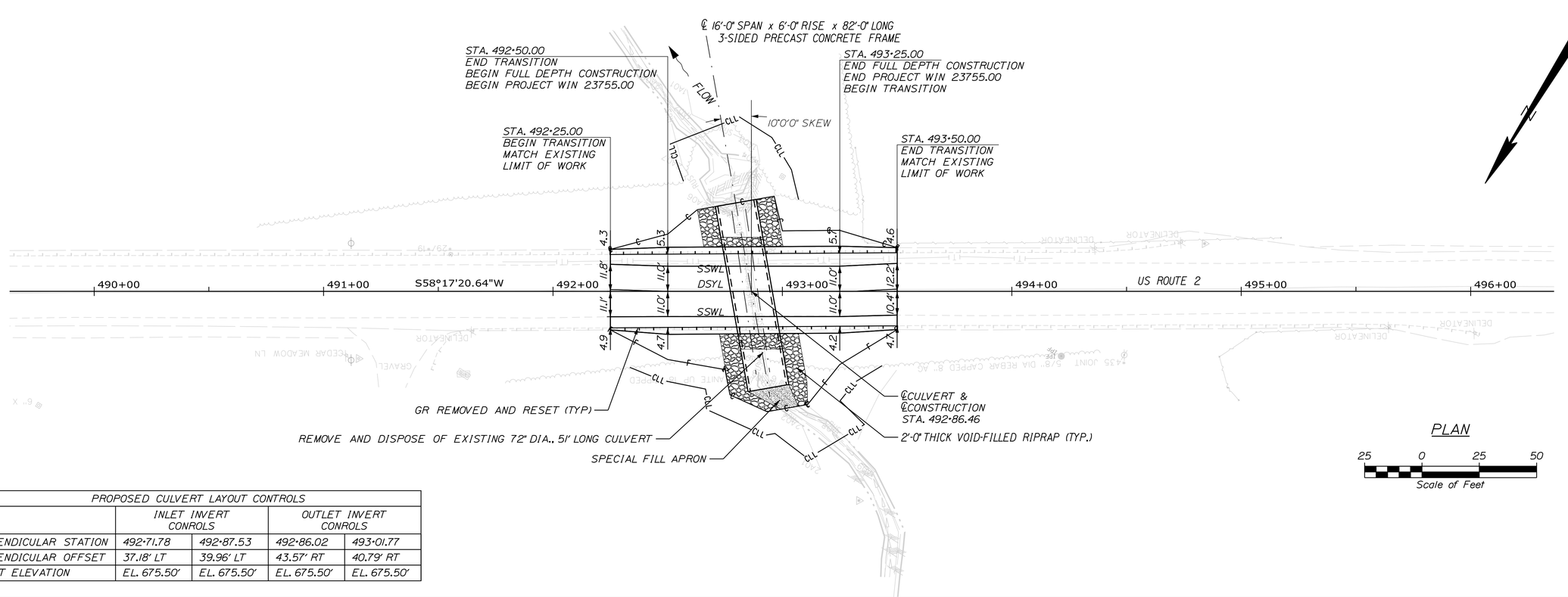
PROJ. MANAGER	R. Soucy		
DESIGN-DETAILED		BY	DATE
CHECKED-REVIEWED		-----	-----
DESIGN2-DETAILED2	K.MAGUIRE	T.WHITE	JAN 2024
DESIGN3-DETAILED3		-----	-----
REVISIONS 1		-----	-----
REVISIONS 2		-----	-----
REVISIONS 3		-----	-----
REVISIONS 4		-----	-----
FIELD CHANGES		-----	-----

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

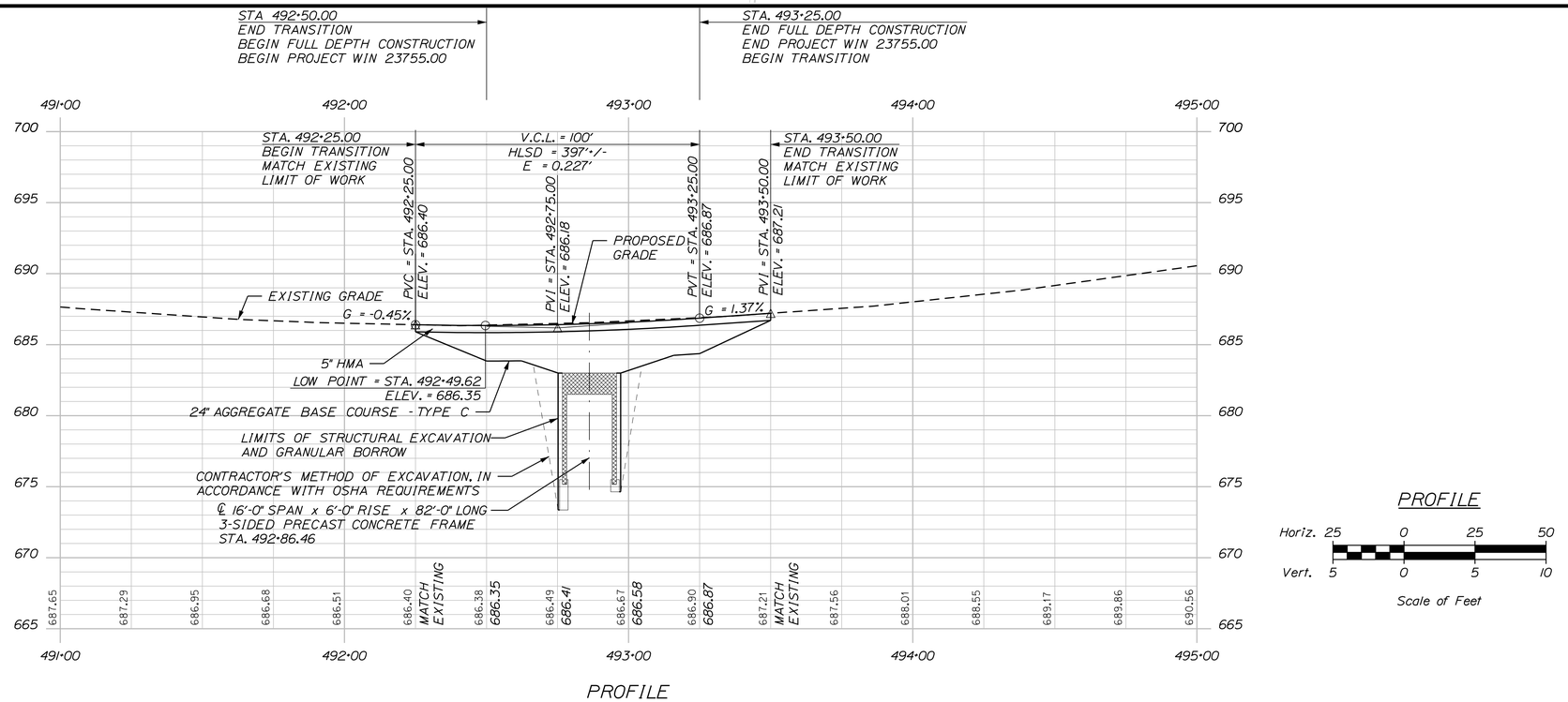
SMYRNA
U.S. ROUTE 2

BORING LOGS

SHEET NUMBER
7
OF 15



PROPOSED CULVERT LAYOUT CONTROLS				
	INLET INVERT CONROLS		OUTLET INVERT CONROLS	
PERPENDICULAR STATION	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'



PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN 23755.00

BRIDGE NO. 6637

REGIONAL PROGRAM

				DATE
PROJ. MANAGER	ROGER SOUCY		BY	
DESIGN-DETAILED	L. KALLOCH	W. GORDON		
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET		
DESIGN2-DETAILED2				
DESIGN3-DETAILED3				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

SIGNATURE

P.E. NUMBER

DATE

SMYRNA
US ROUTE 2

PLAN AND PROFILE

SHEET NUMBER

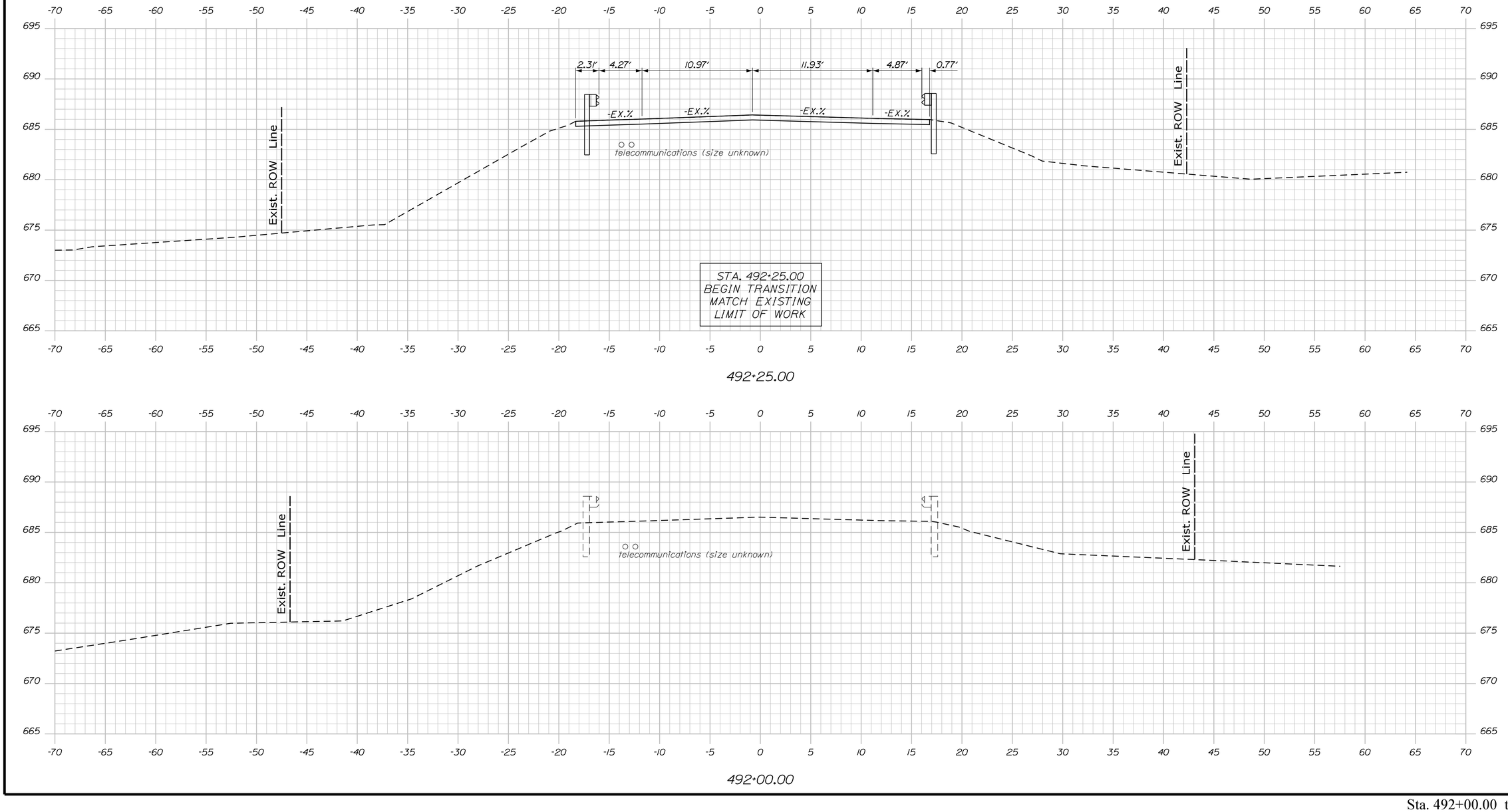
8

OF 15

Username: common Date:1/18/2024

Division: HIGHWAY

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



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN 2375500

BRIDGE NO. 6637

REGIONAL PROGRAM

			DATE
PROJ. MANAGER	ROGER SOUCY	BY	
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET	
DESIGN2-DETAILED2		ED2	
DESIGN3-DETAILED3		ED3	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SMYRNA
US ROUTE 2

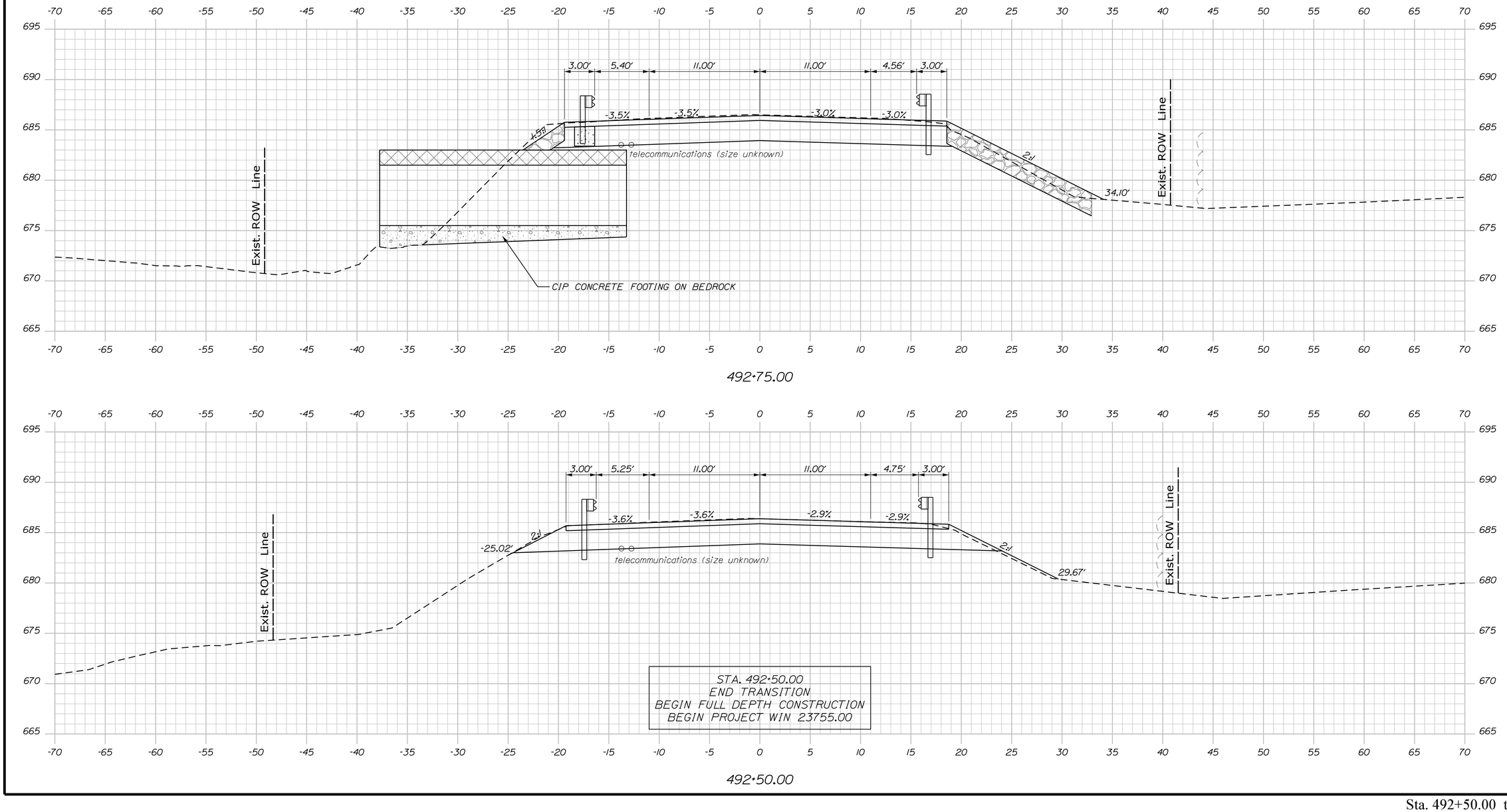
CROSS SECTIONS

SHEET NUMBER

9

OF 15

Sta. 492+00.00 to Sta. 492+25.00



Sta. 492+50.00 to Sta. 492+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN 2375500

BRIDGE NO. 6637

REGIONAL PROGRAM

PROJ. MANAGER	ROGER SOUCY	BY	DATE
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SMYRNA
US ROUTE 2

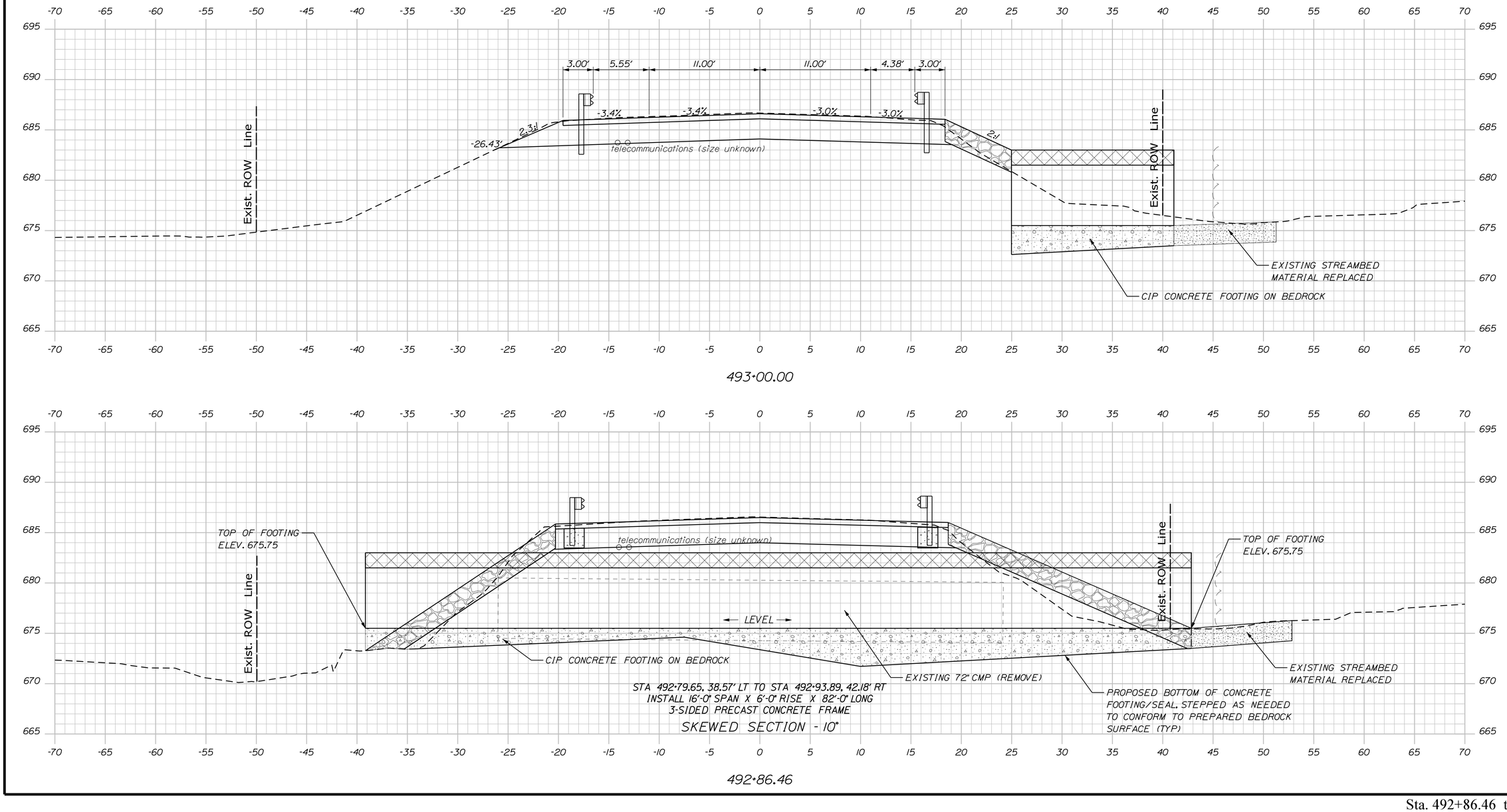
CROSS SECTIONS

SHEET NUMBER

10

OF 15

Filename: ...\Consultant\007_Xsect.dgn Division: HIGHWAY Username: common Date:1/17/2024



Sta. 492+86.46 to Sta. 493+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN 2375500

BRIDGE NO. 6637

REGIONAL PROGRAM

PROJ. MANAGER	ROGER SOUCY		
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SMYRNA
US ROUTE 2

CROSS SECTIONS

SHEET NUMBER

11

OF 15

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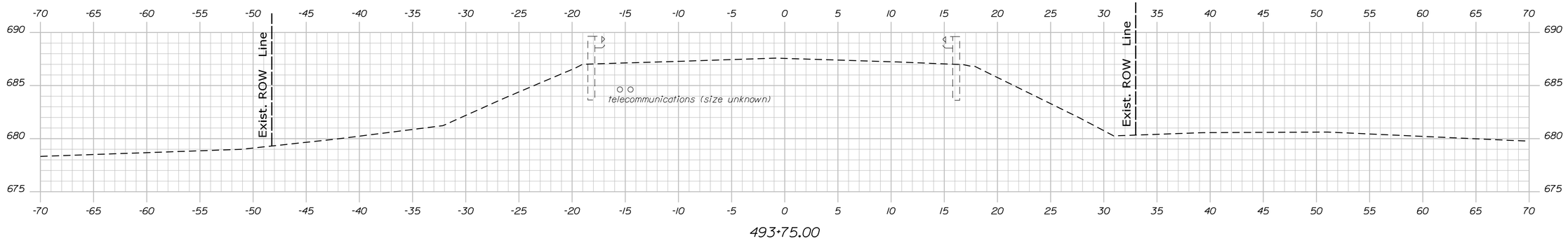

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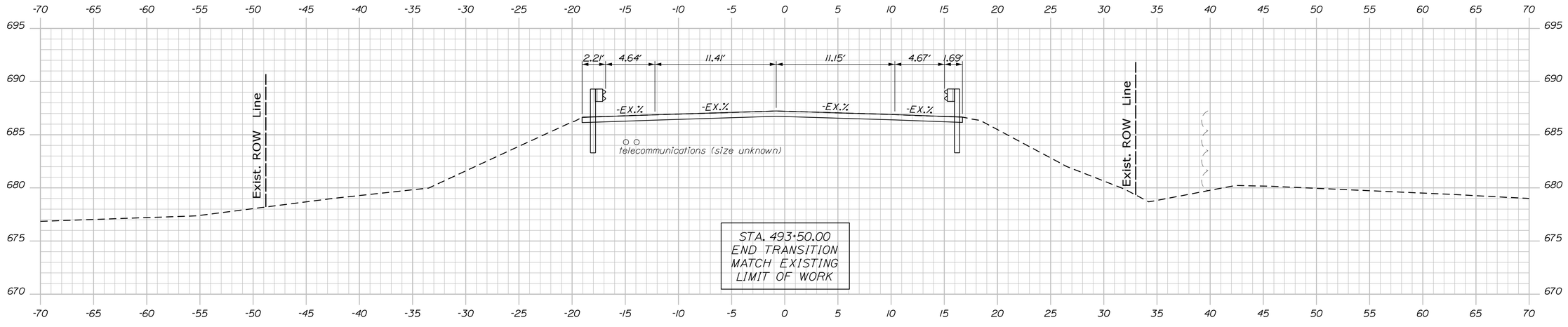

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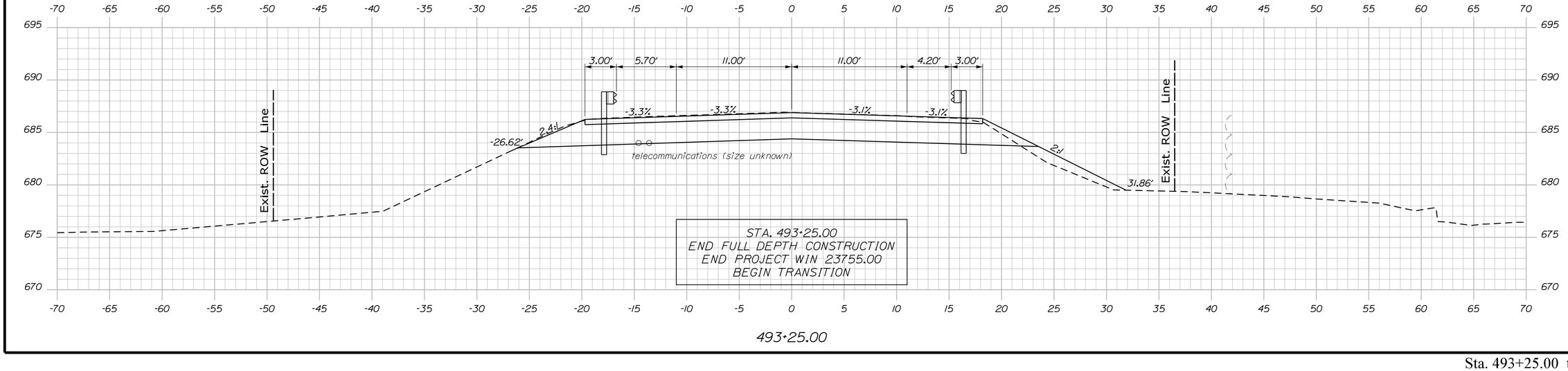

493+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN 2375500

BRIDGE NO. 6637

REGIONAL PROGRAM

		BY	DATE
PROJ. MANAGER	ROGER SOUCY		
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SMYRNA
US ROUTE 2

CROSS SECTIONS

SHEET NUMBER

12

OF 15

Sta. 493+25.00 to Sta. 493+75.00

Filename: ...\Consultant\007_Xsect.dgn Division: HIGHWAY Username: common Date:1/17/2024

SMYRNA CENTER ROAD

NON-MOTORIZED VEHICLE DETOUR

W20-3 ROAD CLOSED 500 FT

W20-3 ROAD CLOSED 1000 FT

M4-9L DETOUR ON RT 2

RII-2 ROAD CLOSED ON BARRICADES

ROAD CLOSED 1.3 MILES AHEAD LOCAL TRAFFIC ONLY WITH TYPE III BARICADES

RTE 2 WEST CLOSED 1.9 MILES AHEAD USE DETOUR EXIT 286 ON I-95

M4-9 DETOUR ON RAMP

1000' 2000' 2000'

LIMESTONE BROOK

WORK ZONE

RTE 2 EAST CLOSED 0.7 MILES AHEAD NON-MOTORIZED TRAFFIC USE SMYRNA CENTER RD

EXIT 291

RTE 2 EAST CLOSED 4.2 MILES AHEAD MOTORIZED TRAFFIC USE DETOUR I-95

MERRILL

SMYRNA

ROUTE 2 CLOSED USE DETOUR

M4-9R DETOUR ON DUCK POND RD

M4-9 DETOUR ON RT 212

M4-9L DETOUR ON MISSION ROAD

US ROUTE 2

ROUTE 2 CLOSED USE DETOUR

M4-9L DETOUR ON CURRIE ROAD

W20-3 ROAD CLOSED 1000 FT

W20-3 ROAD CLOSED 500 FT

RII-2 ROAD CLOSED ON BARRICADES

I-95 SB

I-95 NB

TIMONEY LAKE RD

M4-9R DETOUR

ROUTE 2 DETOUR THIS EXIT

ROUTE 2 CLOSED USE DETOUR

M4-9R DETOUR ON TIMONEY LAKE ROAD

M4-9R DETOUR

RTE 2 WEST CLOSED 1.6 MILES AHEAD MOTORIZED TRAFFIC USE DETOUR I-95

ON RT 2

M4-8a END DETOUR

1000'

ROAD CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY WITH TYPE III BARICADES

SMYRNA

OAKFIELD

M4-9R DETOUR ON RT 2

M4-9R DETOUR ON RAMP

RTE 2 EAST CLOSED 4.2 MILES AHEAD MOTORIZED TRAFFIC USE DETOUR I-95

RIVER RD

DYER BROOK

OAKFIELD

EXIT 286

TIMONEY LAKE

M4-9R DETOUR

RTE 2 WEST CLOSED 1.4 MILES AHEAD NON-MOTORIZED TRAFFIC USE SMYRNA CENTER RD ON RT 2

LONG LAKE

SPAULDING LAKE

M4-9L DETOUR ON RT 212

1000'

ROUTE 2 DETOUR THIS EXIT

M4-9R DETOUR ON RT 212

M4-9 DETOUR

RTE 2 EAST CLOSED 6.0 MILES AHEAD USE DETOUR EXIT 291

RTE 2 EAST CLOSED 5.6 MILES AHEAD MOTORIZED TRAFFIC USE DETOUR I-95

N

PLAN
NTS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2375500

WIN 23755.00

BRIDGE NO. 6637

REGIONAL PROGRAM

PROJ. MANAGER	ROGER SOUCY		
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE | SIGNATURE

P.E. NUMBER

DATE

SMYRNA
US ROUTE 2

ROAD CLOSURE PLAN

SHEET NUMBER

13

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		BACKGROUND	LEGEND	
652.35	CS-1	60"	30"	ROAD CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY	6"C 5"C 4"C	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"C 4"C 4"C 4"C	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"C 4"C 4"C 4"C	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"C 4"C 4"C 4"C	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"C 4"C 4"C 4"C	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"C 5"C 4"C	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"C 4"C 4"C 4"C	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"C 4"C 4"C 4"C 4"C	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"C 4"C 4"C 4"C 4"C	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"C 4"C 4"C	3.0" 3.0"		2	ORANGE	BLACK	6.25 (12.50)
652.35	CS-11	30"	30"	ROUTE 2 CLOSED USE DETOUR	4"C 4"C 4"C	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:

1. SIGN LOCATIONS ARE APPROXIMATE AND TO BE VERIFIED IN THE FIELD.
2. 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

		BY	DATE
PROJ. MANAGER	ROGER SOUCY		
DESIGN-DETAILED	L. KALLOCH	W. GORDON	
CHECKED-REVIEWED	S. FORTIER	J. BEAUDET	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SMYRNA
US ROUTE 2

SIGN SUMMARY

SHEET NUMBER

14

OF 15

PLAN LEGEND

Town, County, State	New R/W Along Existing R/W		Existing	Proposed		Existing	Proposed
Approx. Property Lines P.L.	Building	Clearing Limit Line	Sanitary Sewer		Traveled Way		
Existing Right of Way	Trees Conifer	Deciduous	Telephone Line		Ditch		
Limits of Wrought Portion L.O.W.P.	Tree Line	Bush Line	Electric Line		Catch Basin		
Control Of Access C.O.A.	Water Edge		Water Line		Manhole		
New Right of Way	Ledge	Rock/Boulder Flag Pole	Underdrain Line		Sewer Manhole		
New Easement	Fence CHAIN LINK	BARB WIRE STOCKADE	Gas Line		Utility Pole		
New Temporary Rights	Sign	Well WELL Mailbox	Guardrail		Fire Hydrant		
New R/W Within Existing R/W			Culvert		Curbing		

Cut Line	Fill Line	
Stonewall	Retaining Wall	
Baseline 10+00 11+00 12+00		
Monument	Traverse Point	
Iron Rod Found IRF	Pipe Found IPF	
Replacement Pin Set		

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.

25 0 25 50 75 100
Scale of Feet

STATE OF MAINE REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at _____h_____m_____M and
recorded in Plan Bk _____, Pg._____
Attest: _____
REGISTER

GRID ZONE

CONRAD KAUFFMAN
LYDIA KAUFFMAN
PARCEL NO. (1)
TEMP. CONST. RIGHTS = 1289± S.F. (1)
TOTAL AREA = 22.9± AC. (DEED)

APPROXIMATE LOCATION OF COFFER DAM
LIMESTONE BROOK
TEMPORARY CONSTRUCTION LIMITS
1289± S.F.
N=841862.17
E=2242245.54
EX. CULVERT EASE.
STA. 489+87 LT
S.H.C. FILE NO. 2-108
BASELINE ESTABLISHED UNDER
STATE HIGHWAY "R"
STATE PROJECT NO. 133
OCTOBER 1953
S.H.C. FILE NO. 2-108
TO LUDLOW
489+00 490+00 491+00 492+00 493+00 494+00 495+00 496+00
STATE HIGHWAY "319" / U.S. ROUTE 2
S58°17'20.6"W
300.00'
BEGIN B.L.
END B.L.
TO MERRILL
DELINEATOR
CEDAR MEADOW LN
GRAVEL
5/8" DIA REBAR CAPPED NO • BENT
6" X 6" GRANITE UP 6"
5/8" DIA REBAR CAPPED 8" AG
•4.35 JOINT
MAINE DOT
GRANITE TIPPED
CONST. & MAINT. EASE. 335± S.F.
TEMP. CONST. 991± S.F.
TEMP. CONST. 605± S.F.
LIMITS
N=841938.79
E=2242198.30
SPECIAL FILL APRON
APPROXIMATE LOCATION OF COFFER DAM
LIMESTONE BROOK

MILO R. HILTY
JONATHAN KULP, TRUSTEES
SMYRNA AMISH CHRISTIAN COMMUNITY TRUST
PARCEL NO. (2)
CONST. & MAINT. EASE. = 335± S.F. (1)
TEMP. CONST. RIGHTS = 991± S.F. (1)
TOTAL AREA = 316± AC. (PER TOWN RECORDS)

MILO R. HILTY
JONATHAN KULP, TRUSTEES
SMYRNA AMISH CHRISTIAN COMMUNITY TRUST
PARCEL NO. (3)
CONST. & MAINT. EASE. = 275± S.F. (1)
TEMP. CONST. RIGHTS = 605± S.F. (1)
TOTAL AREA = 14.0± AC. (PER TOWN RECORDS)

EXISTING ROW REFERENCE:
S.H.C. FILE NO. 2-108 (SHEET 3 OF 9)

LIMESTONE BROOK BRIDGE
OVER
LIMESTONE BROOK

BRIDGE NO. 6637 WIN 023755.00

TECH	CHECKED
	D.H.
T.L.B.	B.D.M.
T.L.B.	P.N.S.
T.L.B.	

ITEM	PLAN
EXISTING CONDITION	
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			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD					
NO.	GRANTOR	INSTRUMENT	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	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 2-648
SCALE 1" = 25'	SHEET 1 OF 1	

SHEET NUMBER
15
OF 15

Date:$date$
Username: $user$
Division: $wkgroup$
Filename: $file$