

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



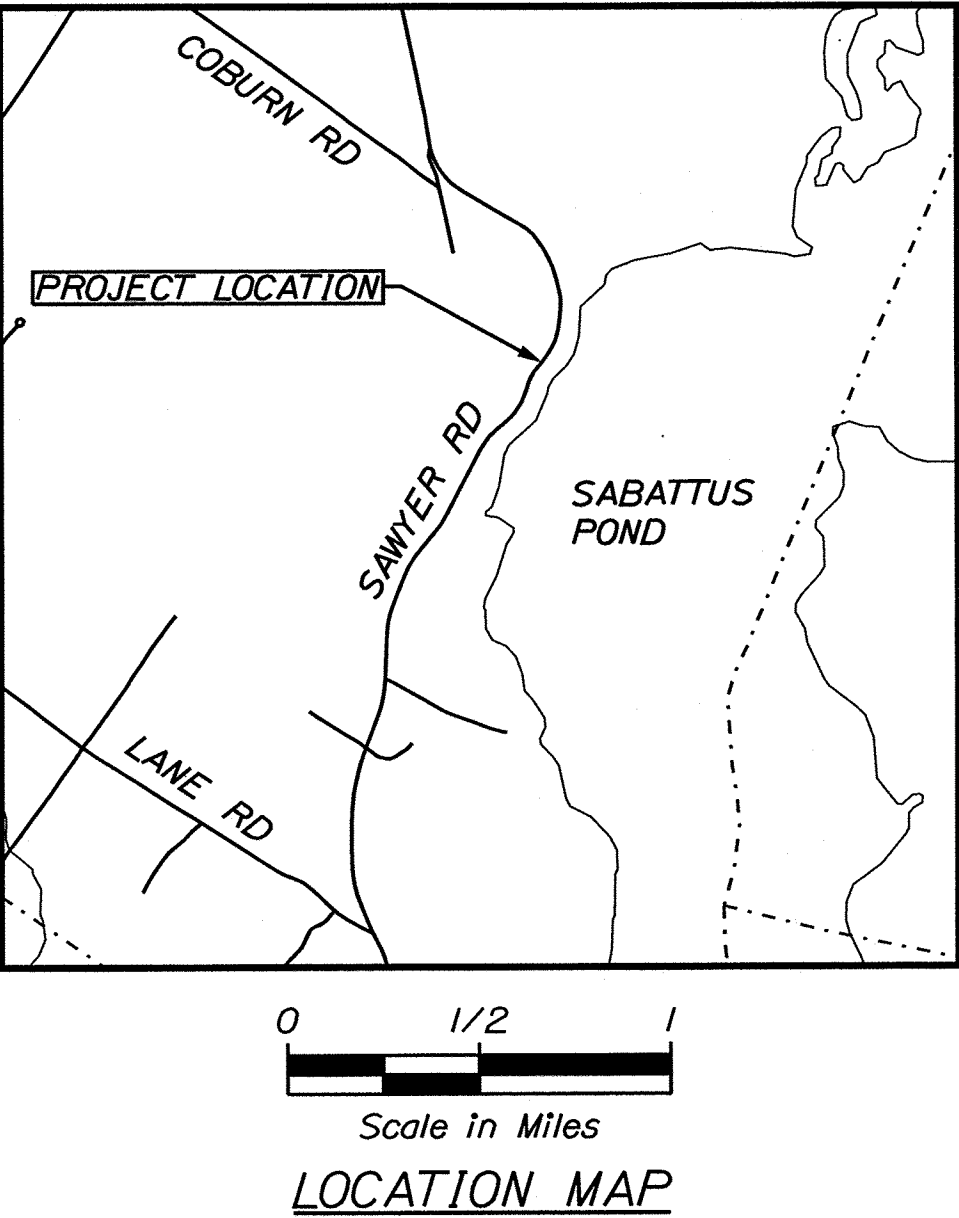
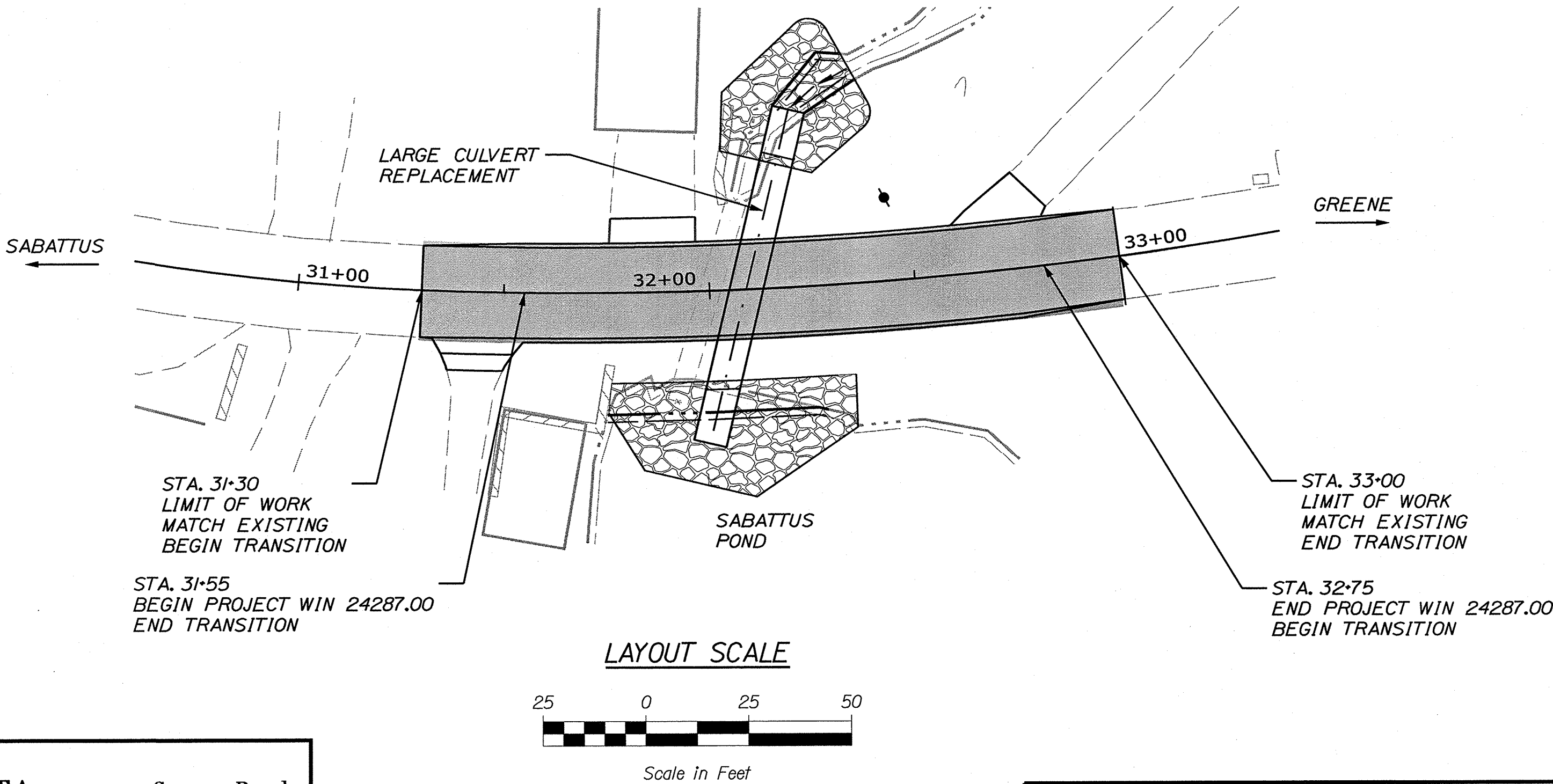
GREENE
ANDROSCOGGIN COUNTY
SAWYER ROAD
STATE PROJECT NO. 24287.00
PROJECT LENGTH: 0.02 MILES

PLAN LEGEND

Town, County, State	-----	Catch Basins	▣ Existing ▣ Proposed
Property Lines	-----	Manholes	○ Existing ● Proposed
R/W Lines-Existing	-----	Proposed Underdrain	----->
R/W Lines-Proposed	-----	Proposed Ditch	----->>>
Culvert-Existing	=====	Existing Ditch	----->>>
Culvert Proposed	=====	Utility Poles	⊕ Existing ⊕ Proposed
Curbing Existing	=====	Fire Hydrants	⊙ Existing ⊙ Proposed
Curbing Proposed	=====	Existing Water Line	-----W-----
Type 1	=====	Existing San. Sewer	-----S-----
Type 3	=====	Existing San. Sewer Manhole	⊙
Type 5	=====	Guardrail-Existing	-----
Outline of Bodies of Water	=====	Guardrail-Proposed	-----
Exposed Bedrock	=====	Guardrail-Cable, Other	-----
Buildings	=====	Centerline-Existing	-----
Trees	⊕ Conifer ⊕ Deciduous	Centerline-Proposed	-----
Tree Line	-----	Travelway-Existing	-----
Clearing Limit Line	CLL	Travelway-Proposed	-----
Railroad	=====		
Boring	⊕ HB-XXX-###	Probe	⊙ P-#.X
Pavement Core	● PC-#		
Test Pit	⊕ TP-XXX-###		

INDEX OF SHEETS

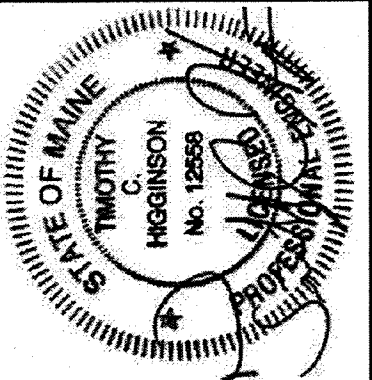
Description	Sheet No.
Title Sheet	1
Typical Section, General Notes & Est. Quantities	2
Special Details	3
Boring Location Plan & Interpretive Subsurface Profile with Boring Logs	4
Plan & Profile	5
Cross Sections	6-11
Detour Plan	12
Right of Way Map	13



TRAFFIC DATA	Sawyer Road
Current (2024) AADT	1560
Future (2044) AADT	1720
DHV - % of AADT	13%
Design Hour Volume	218
% Heavy Trucks (AADT)	5%
% Heavy Trucks (DHV)	2%
Directional Distribution (DHV)	55%
18 kip Equivalent P 2.0	18
18 kip Equivalent P 2.5	17
Design Speed (mph)	35
Functional Class	MINOR COLLECTOR
Highway Corridor Priority	4

PROJECT LOCATION:	SAWYER ROAD LOCATED APPROXIMATELY 0.81 MILES NORTH OF BARNARD COVE DRIVE IN THE TOWN OF GREENE.
PROGRAM AREA:	REGIONAL PROGRAM
SCOPE OF WORK:	LARGE CULVERT REPLACEMENT

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: [Signature]		3-18-24
CHIEF ENGINEER: [Signature]		3-18-24



SIGNATURE	DATE
T. HENSON	3/11/2024
P.E. NUMBER	
12558	

PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
REGIONAL	R. BETZ	T. HENSON	WSP USA, Inc.				

GREENE SAWYER ROAD	TITLE SHEET
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SHEET NUMBER	1
OF 13	

WIN 24287.00

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 CONTRACTOR SHALL PLAN AND CONDUCT WORK SO THAT UPON COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF THE SHOULDER PAVEMENT.
5. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE FILL SIDE SLOPES WITHOUT GUARDRAIL UNLESS OTHERWISE NOTED ON THE PLANS.
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. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH 2 INCHES OF HOT MIX ASPHALT AND 12 INCHES OF AGGREGATE SUBBASE COURSE GRAVEL.

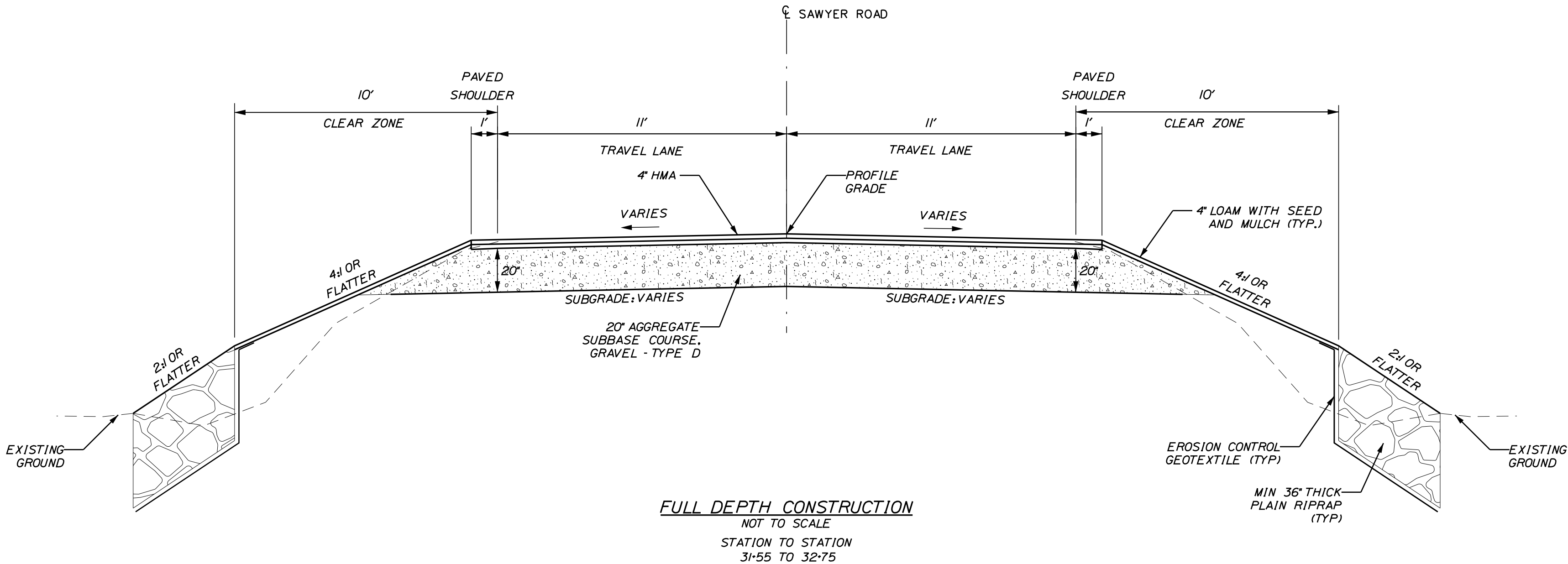
CONSTRUCTION NOTES:

1. ALL STUMP REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
2. IF STRIPING IS NOT COMPLETE WITHIN THE PROJECT CLOSURE DURATION, TEMPORARY PAVEMENT MARKINGS, OR TEMPORARY OVERLAY MARKERS (TOMS), SHALL BE INCIDENTAL TO PAVING.
3. ALL GRUBBING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.

10. GRAVEL ENTRANCES SHALL BE CONSTRUCTED WITH 14 INCHES OF AGGREGATE SUBBASE COURSE GRAVEL OR 11 INCHES OF AGGREGATE SUBBASE COURSE GRAVEL AND 3 INCHES OF UNTREATED AGGREGATE SURFACE COURSE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
11. A 3-FOOT PAVED LIP SHALL BE PLACED AT ALL UNPAVED ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
12. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING (OR MILLING) SHALL BE INCIDENTAL TO THE RELATED PAVING (OR MILLING) ITEMS. THIS INCLUDES KILLING AND REMOVAL OF ALL VEGETATIVE MATTER.
13. THE ALGEBRAIC DIFFERENCE BETWEEN TRAVELWAY AND SHOULDER CROSS SLOPE SHALL NOT EXCEED 8 PERCENT.
14. 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.
15. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL OTHER AREAS.
16. 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.
17. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT
18. 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.
19. THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL DESIGN REPORT FOR THE REPLACEMENT OF LARGE CULVERT *779960", SOILS REPORT 2024-06, MARCH 7, 2024 CAN BE ACCESSED AT THE MAINEDOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).

20. 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.
21. AREAS ON THE PROJECT REQUIRING FILL WILL COME FROM SUITABLE SITES SUCH AS EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
22. 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.
23. 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.
24. 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.

Estimated Quantities			
ITEM NO.	DESCRIPTION	QUANTITY	Unit
203.20	COMMON EXCAVATION	715	CY
203.25	GRANULAR BORROW	170	CY
304.10	AGGR SUBB COURSE - GRAVEL	270	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	52	T
403.209	HOT MIX ASPHALT 9.5 MM (INCIDENTALS)	5	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	52	T
409.15	BITUMINOUS TACK COAT - APPLIED	14	G
508.13	SHEET WATERPROOFING MEMBRANE	1	LS
511.07	COFFERDAM DOWNSTREAM	1	LS
511.07	COFFERDAM UPSTREAM	1	LS
534.71	PRECAST CONCRETE BOX CULVERT	1	LS
610.08	PLAIN RIPRAP	205	CY
610.213	VOID-FILLED RIPRAP	18	CY
613.319	EROSION CONTROL BLANKET	25	SY
615.07	LOAM	20	CY
618.13	SEEDING METHOD NUMBER 1	3	UN
619.12	MULCH	3	UN
619.14	EROSION CONTROL MIX	20	CY
620.58	EROSION CONTROL GEOTEXTILE	360	SY
627.733	4" WHITE OR YELLOW PAINTED PAVE MRK LINE	510	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL-PURPOSE EXC (INC OPERATOR)	10	HR
631.133	SKID STEER (INCLUDING OPERATOR)	10	HR
631.15	ROLLER EARTH BASE CRS (INC OP)	10	HR
631.172	TRUCK-LARGE (INC OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	30	EA
652.34	CONE	90	EA
652.35	CONSTRUCTION SIGNS	500	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	32	CD
652.38	FLAGGER	300	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMP SOIL EROSION & WATER POLLUTION CTRL	1	LS
659.10	MOBILIZATION	1	LS



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

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WIN
24287.00
HIGHWAY PLANS

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

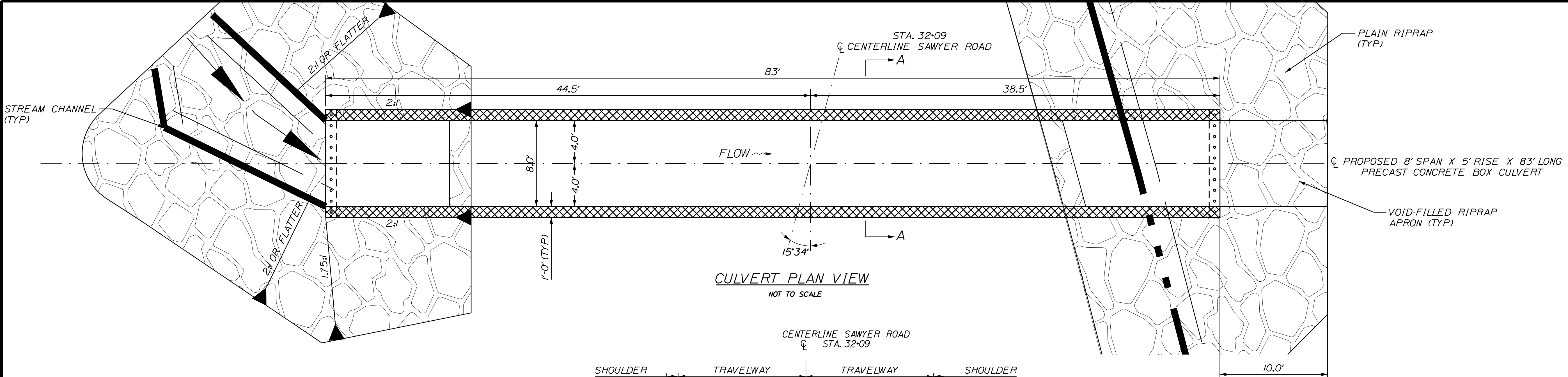
DATE
10/29/21
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03/10/23
03/17/24
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BY
R. Betz
M. Grole
M. Grole
M. Grole
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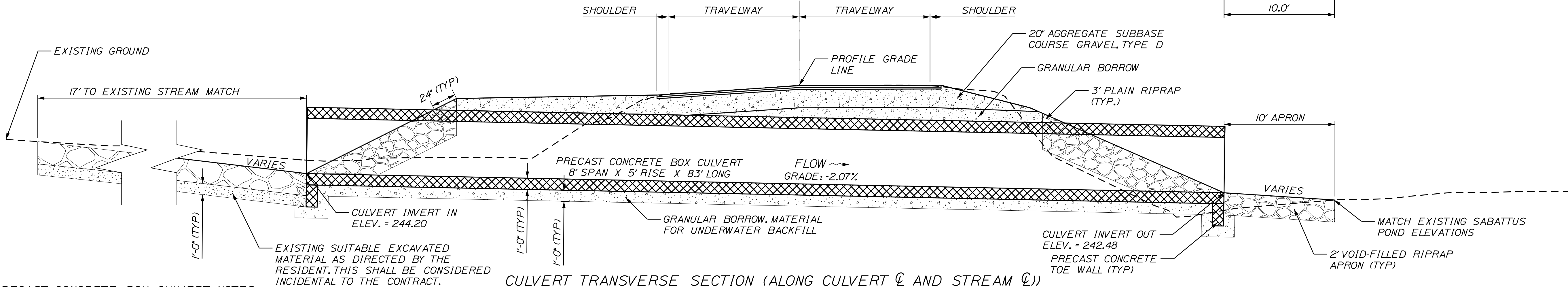
SIGNATURE
P.E. NUMBER
DATE

GREENE
SAWYER ROAD
TYPICAL SECTION, GENERAL
NOTES & ESTIMATED QUANTITIES

SHEET NUMBER
2
OF 13



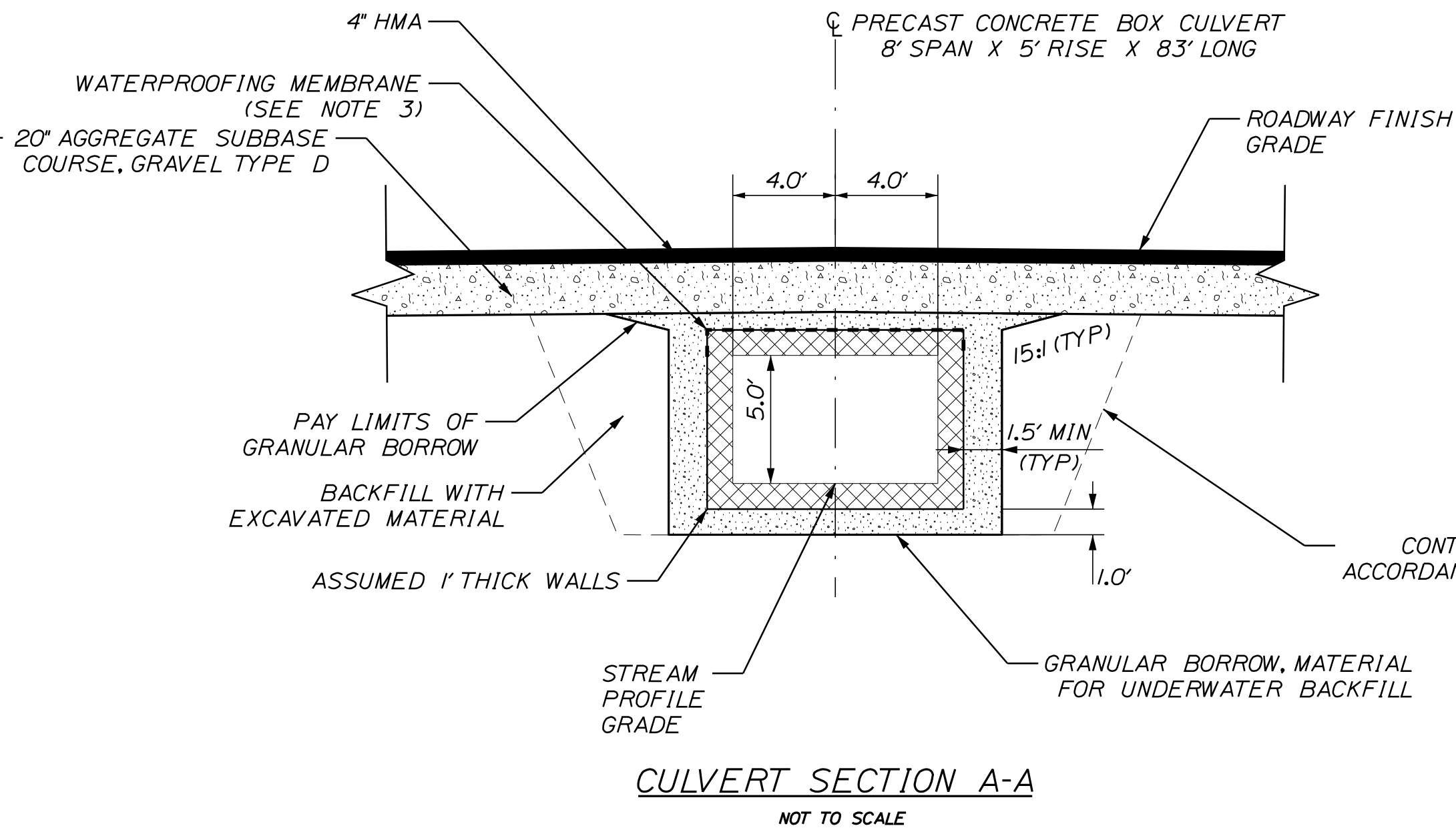
CULVERT PLAN VIEW
NOT TO SCALE



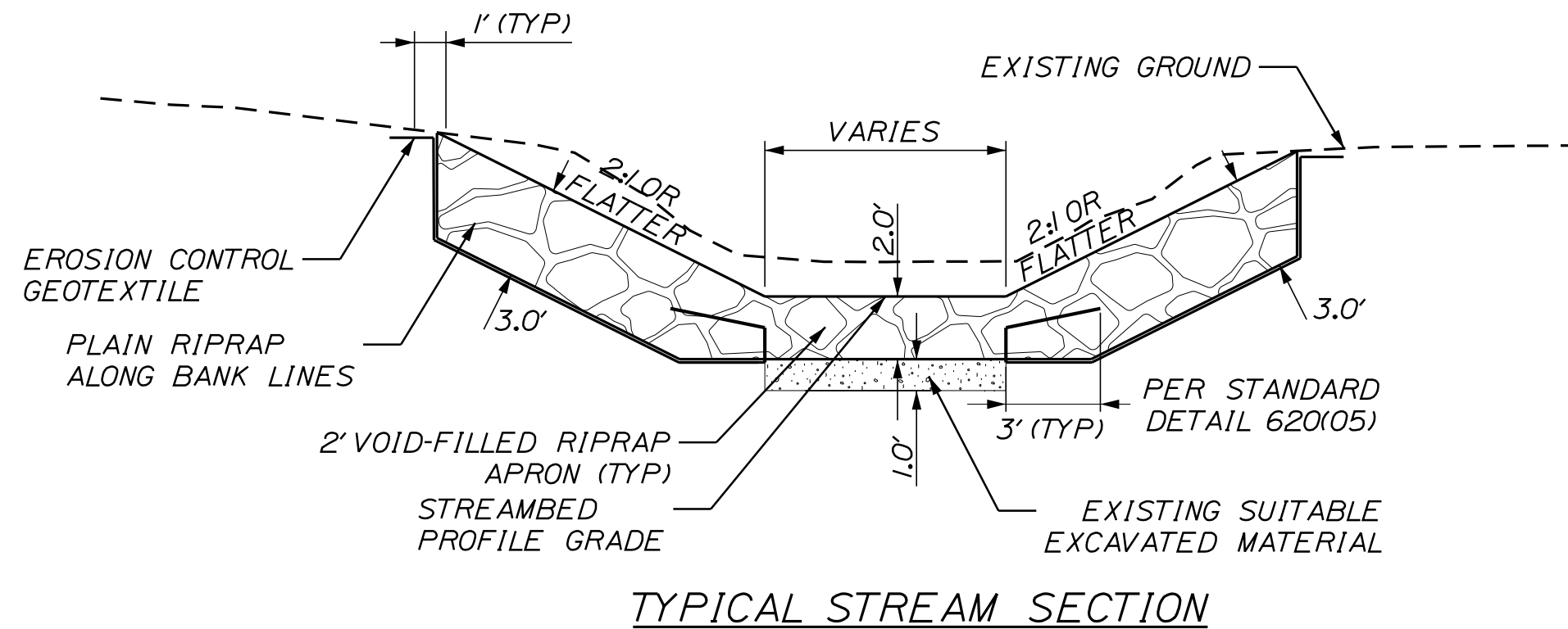
CULVERT TRANSVERSE SECTION (ALONG CULVERT C AND STREAM C)
NOT TO SCALE

PRECAST CONCRETE BOX CULVERT NOTES

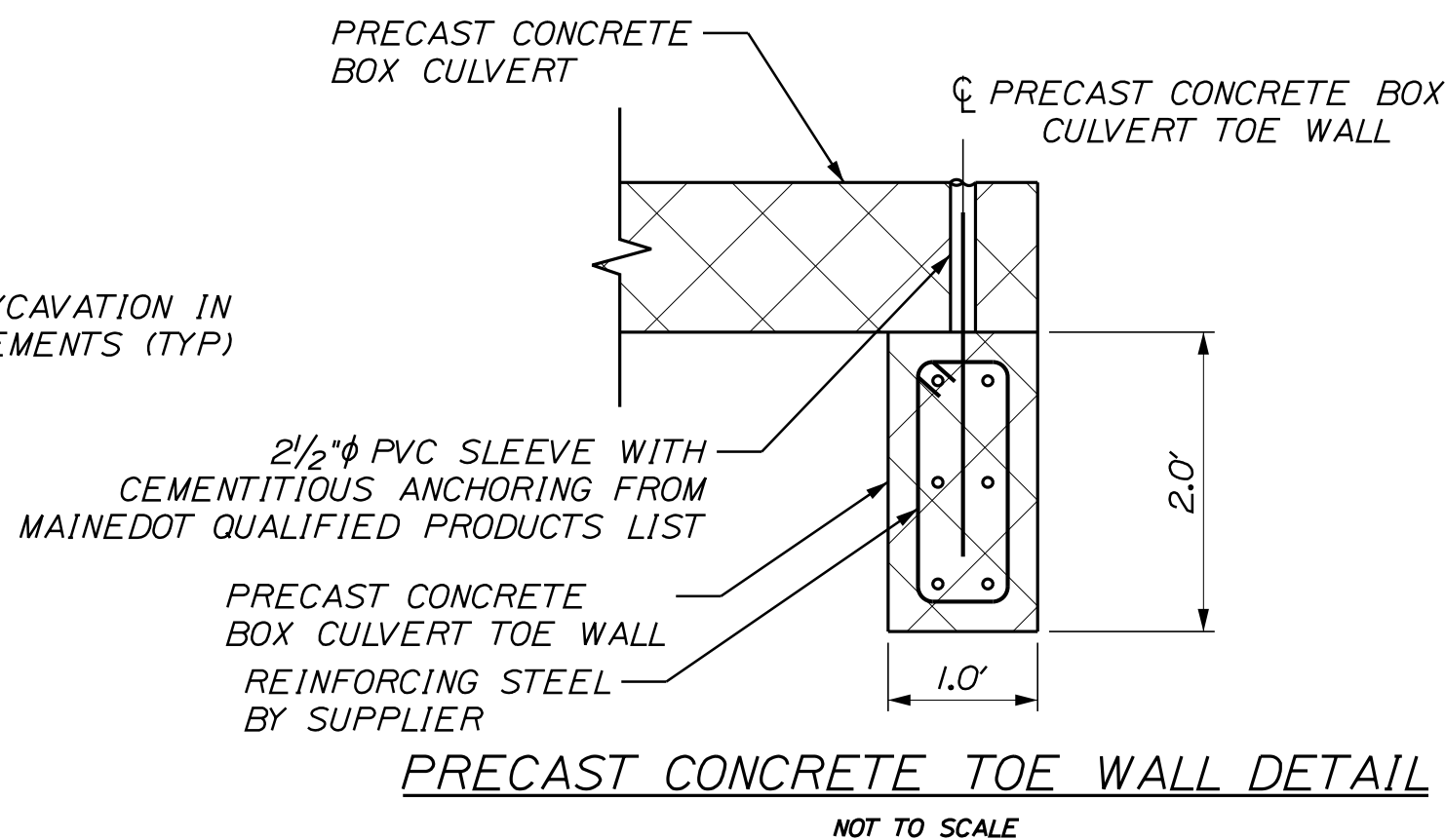
1. THE PRECAST UNITS SHALL BE DESIGNED TO CARRY CONSTRUCTION LOADINGS WITH A MINIMUM FILL COVER OF 18" OVER THE TOP OF THE UNITS.
2. THE CONSTRUCTION, HANDLING, AND ASSEMBLY OF THE PRECAST UNITS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 534, PRECAST STRUCTURAL CONCRETE, AND WITH THE MANUFACTURER'S SPECIFICATIONS AS APPLICABLE.
3. INSTALL SHEET WATERPROOFING MEMBRANE OVER THE TOP AND TO 12" DOWN THE EXTERIOR SIDES OF THE PRECAST UNITS.
4. THE PRECAST CONCRETE BOX CULVERT SHALL BE BEDDED ON A 1-FOOT 20" AGGREGATE SUBBASE COURSE, GRAVEL TYPE D.
5. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF THE PRECAST STRUCTURE TO ALLOW WATER TO BE PUMPED AND REMOVED DURING CONSTRUCTION OF THE BOX CULVERT.
6. PLAIN RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET. SEE PLAN AND PROFILE FOR LOCATIONS.
7. EROSION CONTROL GEOTEXTILE SHALL BE PLACED UNDER ALL PLAIN RIPRAP. EXTEND UP ALL SIDES AND KEYED IN. GEOTEXTILE IS NOT REQUIRED WHEN RIPRAP IS IN WATER CONDITIONS.
8. WASH IN EXCAVATED STREAMBED MATERIAL DURING PLACEMENT OF THE PROPOSED RIPRAP APRONS UPSTREAM AND DOWNSTREAM TO FILL THE VOIDS OF THE RIPRAP AND TO PROVIDE A COVER OF STREAMBED MATERIAL OVER THE FINISHED GRADE.
9. EXCAVATION AND REMOVAL OF EXISTING CMP CULVERT IS INCIDENTAL TO INSTALLATION OF PROPOSED PRECAST CONCRETE BOX CULVERT.
10. PLACE A 24 INCH WIDE STRIP OF TEMPORARY EROSION CONTROL BLANKET ALONG THE TOP OF THE RIPRAP AND OVER THE STRUCTURE, TYPICAL AT BOTH ENDS.



CULVERT SECTION A-A
NOT TO SCALE



TYPICAL STREAM SECTION
NOT TO SCALE



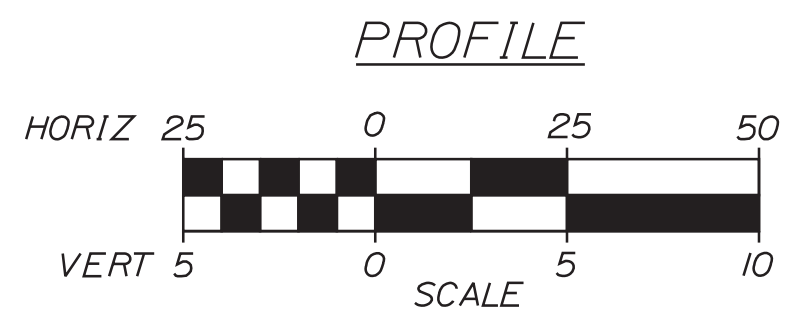
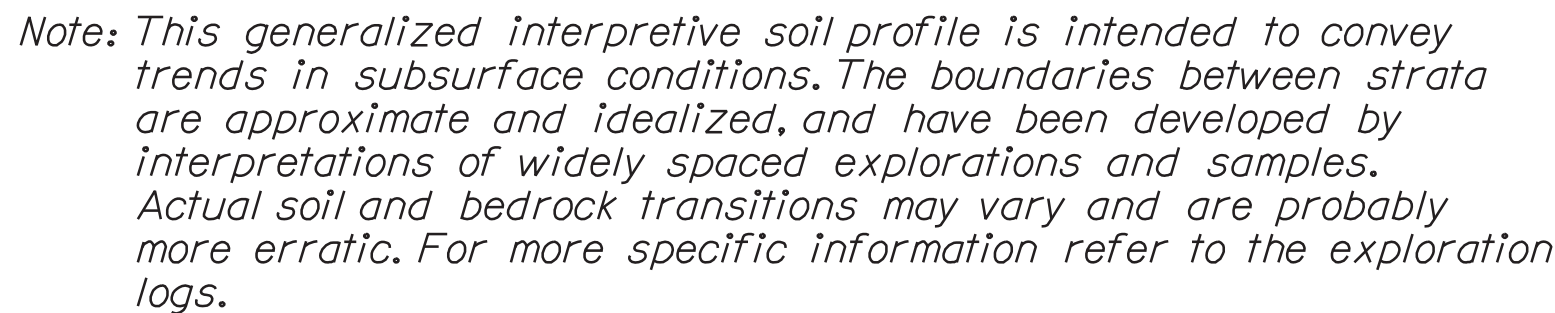
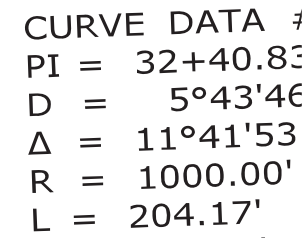
PRECAST CONCRETE TOE WALL DETAIL
NOT TO SCALE

STATE OF MAINE		
DEPARTMENT OF TRANSPORTATION		
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WIN		
24287.00		
HIGHWAY PLANS		

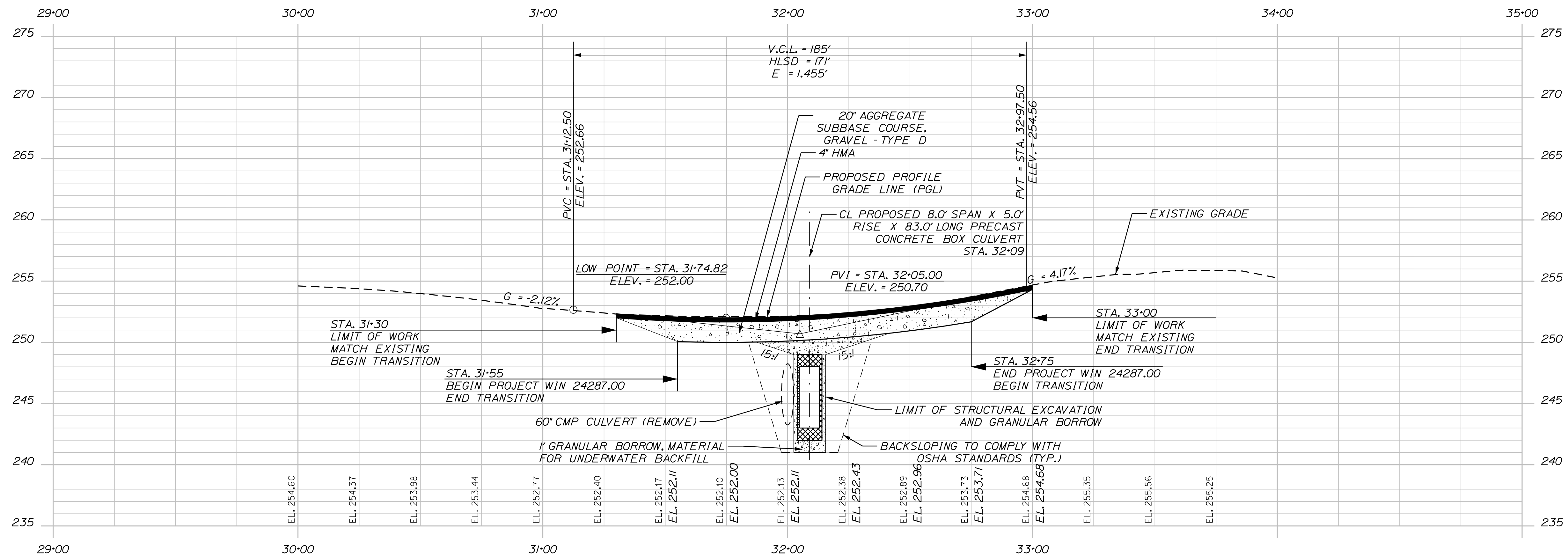
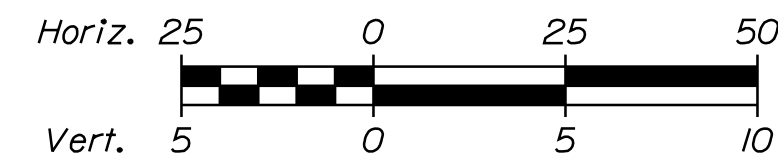
PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
R. Betz	M. Grole	10/29/21			
CHECKED-REVIEWED	T. Higginson	--			
DESIGN-REVIEWED	M. Grole	03/10/23			
DESIGN-REVIEWED	T. Higginson	03/11/24			
REVISIONS 1	--	--			
REVISIONS 2	--	--			
REVISIONS 3	--	--			
REVISIONS 4	--	--			
FIELD CHANGES	--	--			

GREENE	
SAWYER ROAD	
SPECIAL DETAILS	

SHEET NUMBER	
3	
OF 13	

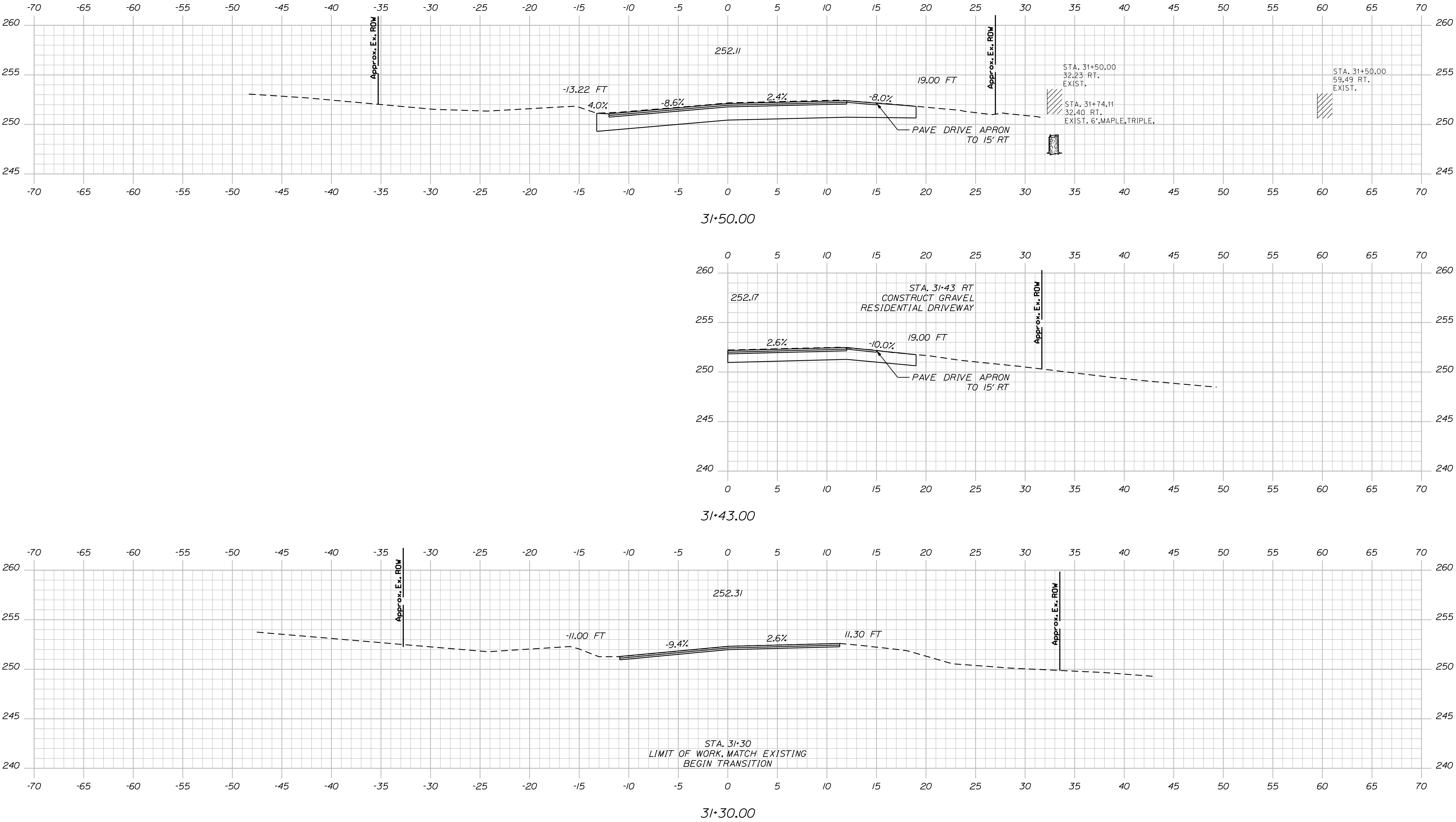


Maine Department of Transportation						Project/Saver: Road Large Culvert		Boring No.: HB-GRE-101	
Soil/Rock Exploration Log US CUSTOMARY UNITS						Location: Greenville, Maine		WIN: 24287.00	
Drilling Contractor/WeldDOT				Elevation (ft.):	251.9	Auger ID/DD:	5° Dia.		
Operator: Daggett/Westtrack				Borings:	NAVDS	Sampler:	N/A		
Logged By: B. Wilder				Rig Type:	CME 45C	Home Wt./Fall:	N/A		
Date Start/Finish: 2/4/2020/08:00-11:00				Drilling Method:	Solid Stem Auger	Core Barrel:	N/A		
Boring Location: 32+27.1, T+6 ft LTL				Casing ID/DD:	N/A	Water Level*:	None Observed		
S = Sample off Auger Flange R = Rock Core Sample S _y = Peak/Retained Field Vane Undrained Shear Strength (psf) TS = Soil from Auger Ts ₁₀₀ = 100-lbm Undrained Shear Strength (psf) LL = Liquid Limit W = Unsuccessful Split-Tension Sample Attempt SA = Soil from Stem Auger q _u = Uncorrected Compressive Strength (ksf) A _v = Average Flow Rate Off-Site (gpm) P _w = Plastic Limit M = Thin Wall Tube Sample RC = Retainer Core T _y = Robot Torque Shear Strength (psi) E = Compression Test W = Water Content, percent									
Sample Information						Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ASHTO and Unified Class	
Depth (ft.)	Sample No.	Pen./Reb. (in)	Sample Depth (ft.)	Blow(s) x/6 (in)	Blow(s) Strength				
						SSA		Fine, similar soils as HB-GRE-101.	
5									
10									
15									
20							231.9	Bottom of Exploration at 20.0 feet below ground surface. NO REFUGAL	-20.00
25									
Remarks: Left 5 ft of auger in bore hole.									
Stratification lines represent approximate boundaries between soil types/transitions may be gradual.									
* Water level readings have been done at 1' 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-GRE-101	

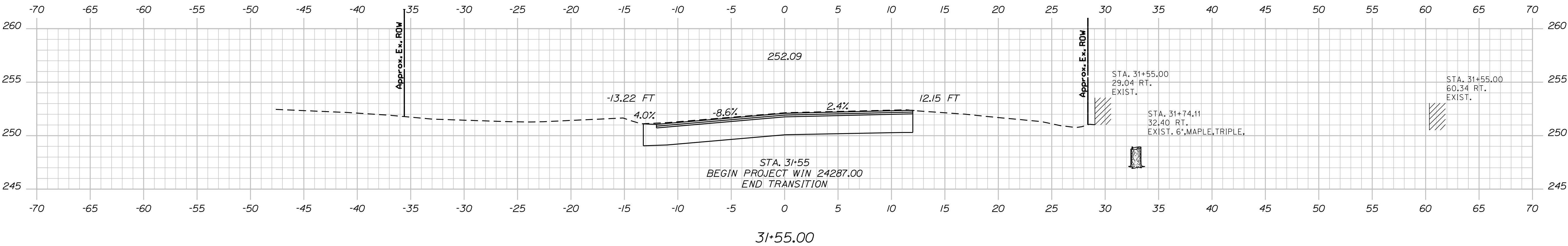
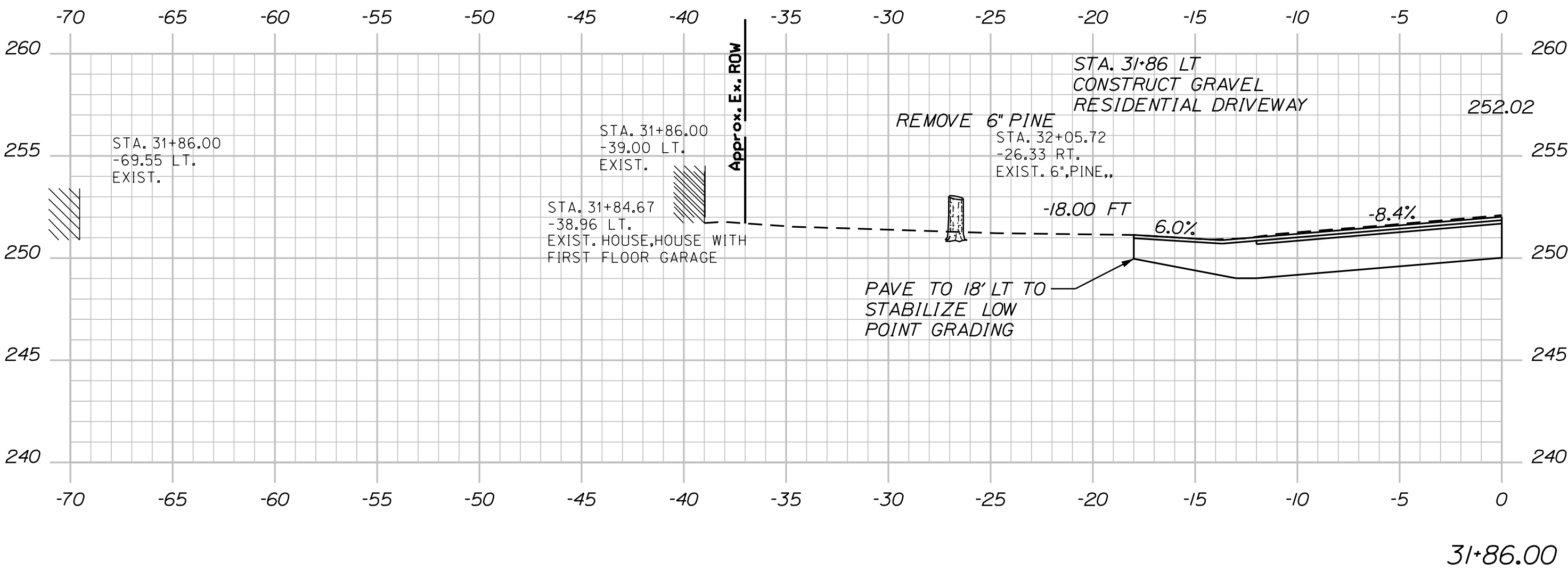


SAWYER RD PROFILE

5 OF 13	SHEET NUMBER 5	GREENE SAWYER ROAD PLAN & PROFILE	PROJ. MANAGER T. Higginson	R. Brt M. Grote	BY M. Grote	DATE 10/20/21	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
			DESIGN-DETAILED T. Higginson	DESIGN-DETAILED M. Grote	DATE 03/10/23	SIGNATURE	
			DESIGN2-DETAILED2 T. Higginson	DESIGN2-DETAILED2 M. Grote	DATE 03/10/23	SIGNATURE	--
			DESIGN3-DETAILED3 T. Higginson	DESIGN3-DETAILED3 M. Grote	DATE 03/11/24	P.E. NUMBER	
			REVISIONS 1	REVISIONS 1	DATE	P.E. NUMBER	--
			REVISIONS 2	REVISIONS 2	DATE	P.E. NUMBER	
			REVISIONS 3	REVISIONS 3	DATE	P.E. NUMBER	WIN 24287.00
			REVISIONS 4	REVISIONS 4	DATE	P.E. NUMBER	
			FIELD CHANGES	FIELD CHANGES	DATE	P.E. NUMBER	HIGHWAY PLANS



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		--		WIN		24287.00		HIGHWAY PLANS	
PROJECT MANAGER		CHECKED-REVIEWED		DESIGNED-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3	
R. Betz		T. Higginson		M. Grole		T. Higginson		M. Grole		T. Higginson	
BY		DATE		SIGNATURE		P.E. NUMBER		DATE			
M. Grole		10/29/21									
M. Grole		03/10/23									
M. Grole		03/11/24									
FIELD CHANGES											
SHEET NUMBER		6		OF 13							



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
--
WIN 24287.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	M. Grole	10/29/21
CHECKED-REVIEWED	M. Grole	--
DESIGN-DETAILED	M. Grole	03/10/23
DESIGN-DETAILED	M. Grole	03/11/24
REVISIONS 1	--	--
REVISIONS 2	--	--
REVISIONS 3	--	--
REVISIONS 4	--	--
FIELD CHANGES	--	--

GREENE SAWYER ROAD
CROSS SECTIONS

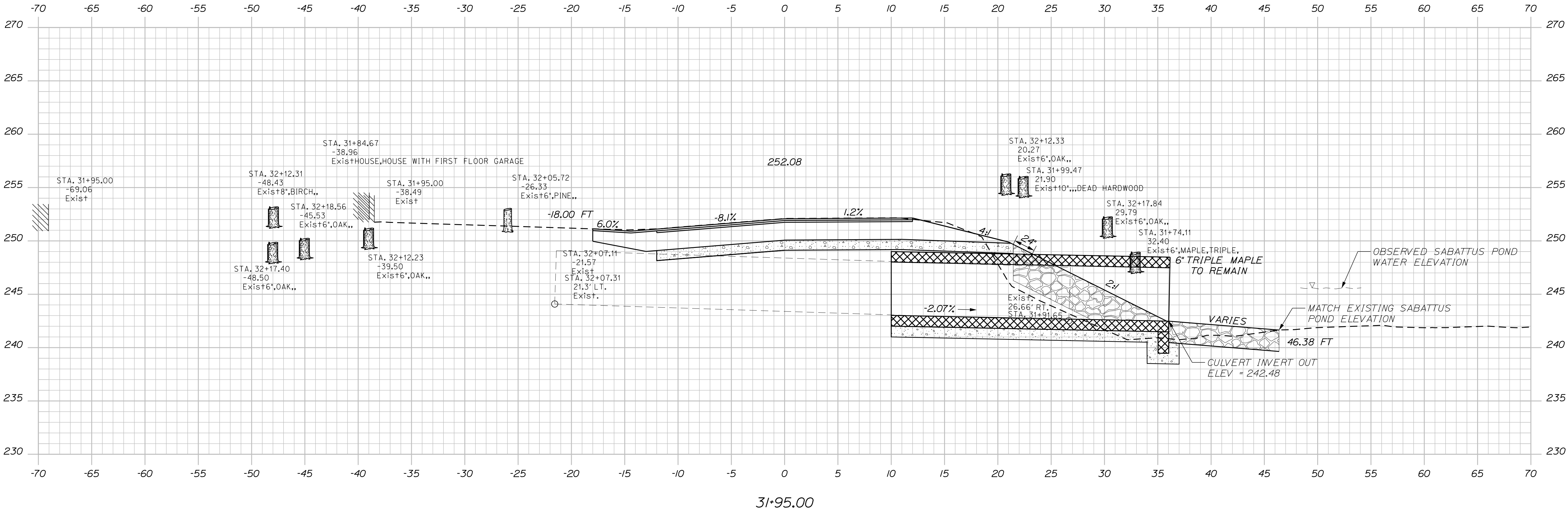
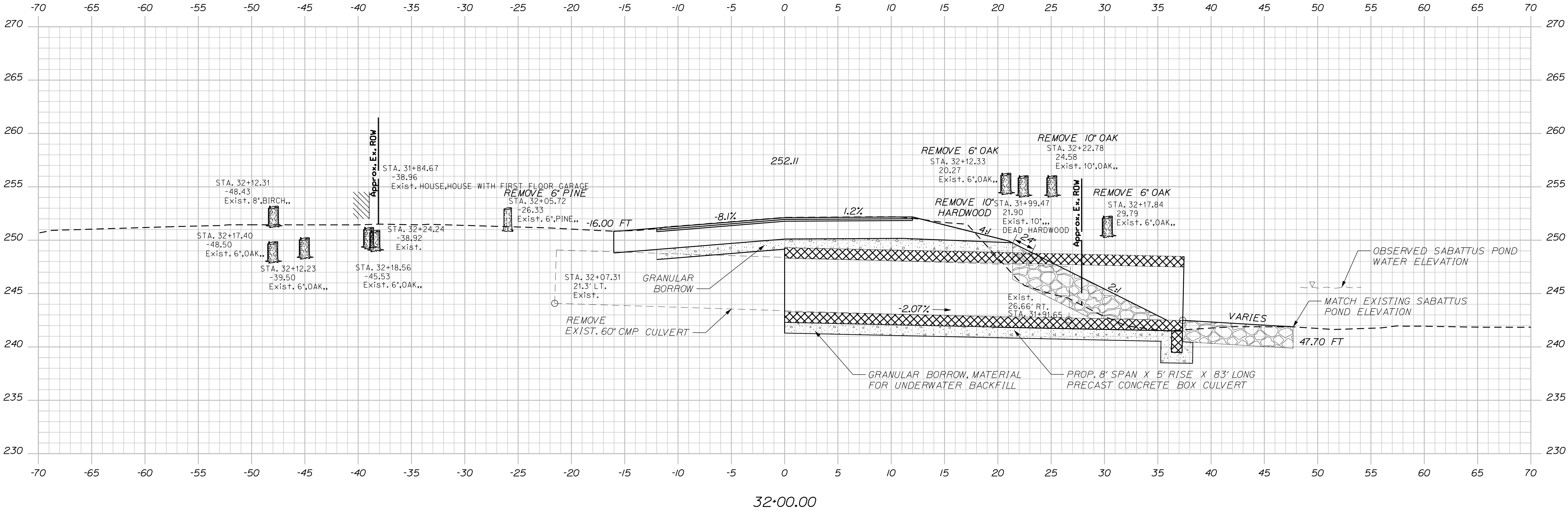
SHEET NUMBER
7
OF 13

Username: WSP USA, Inc.

Date:03/11/2024

Division: Regional

Filename: GREENE



PROJ. MANAGER	BY	DATE	SIGNATURE
R. Betz	T. Higginson	10/29/21	--
CHECKED-REVIEWED	M. Grole	--	--
DESIGNED-DETAILED	T. Higginson	03/10/23	--
DESIGNED-DETAILED	T. Higginson	03/11/24	--
REVISIONS 1	--	--	--
REVISIONS 2	--	--	--
REVISIONS 3	--	--	--
REVISIONS 4	--	--	--
FIELD CHANGES	--	--	--
P.E. NUMBER			DATE
--			--

GREENE

SAWYER ROAD

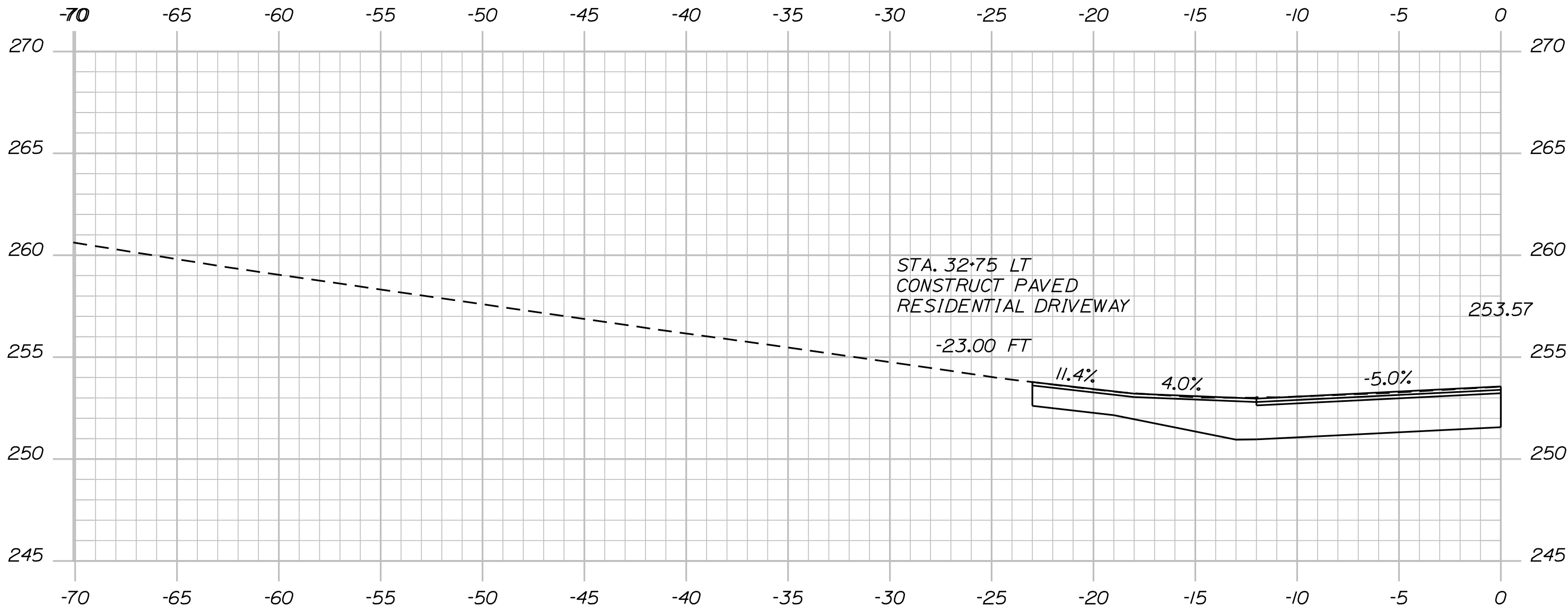
CROSS SECTIONS

Date:03/11/2024

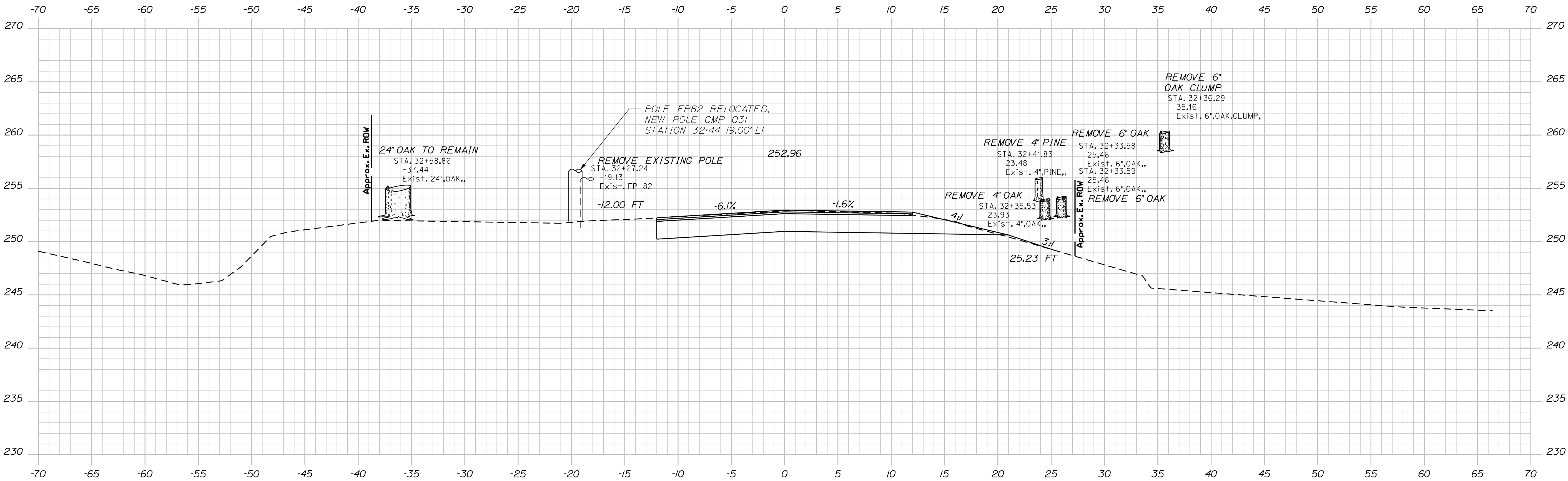
Username: WSP USA, Inc.

Division: Regional

Filename: GREENE



32+70.32



32+50.00

ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		--		PIN		24287.00		HIGHWAY PLANS	
PROJ. MANAGER		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		T. Higginson		10/29/21		--		--		--	
CHECKED-REVIEWED		M. Grole		--		--		--		--	
DESIGN-DETAILED		T. Higginson		03/10/23		--		--		--	
REVISIONS 1		--		--		--		--		--	
REVISIONS 2		--		--		--		--		--	
REVISIONS 3		--		--		--		--		--	
REVISIONS 4		--		--		--		--		--	
FIELD CHANGES		--		--		--		--		--	

GREENE
SAWYER ROAD

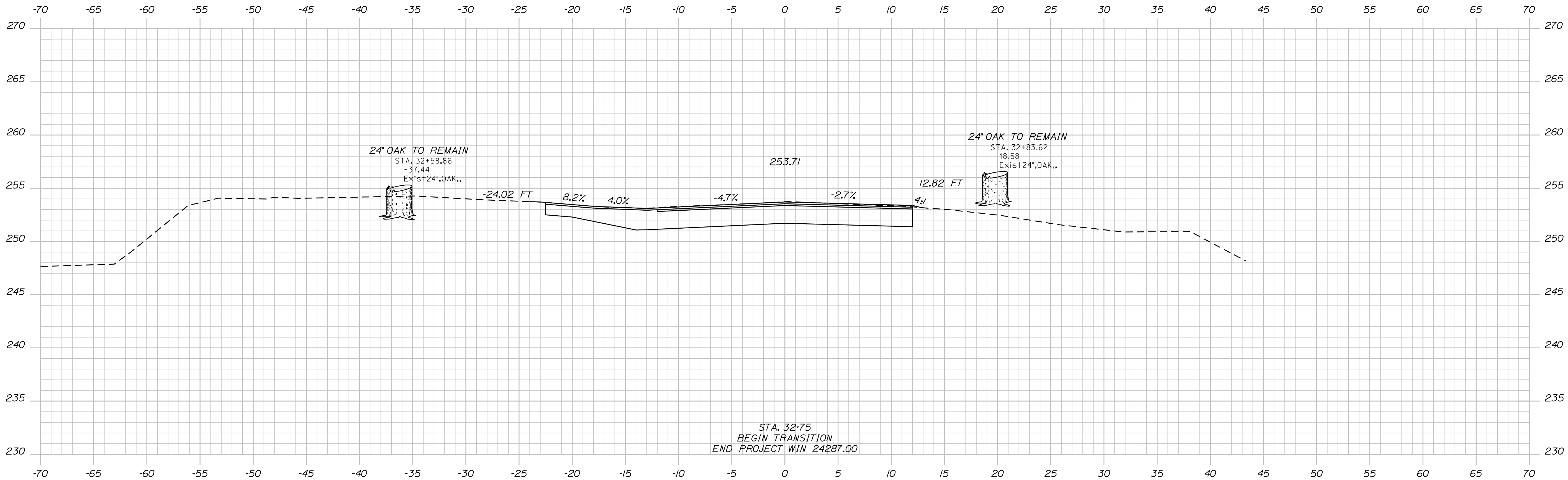
CROSS SECTIONS

SHEET NUMBER

10

OF 13

Filename: GREENE



WIN
24287.00

DATE _____

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1	1	1	1

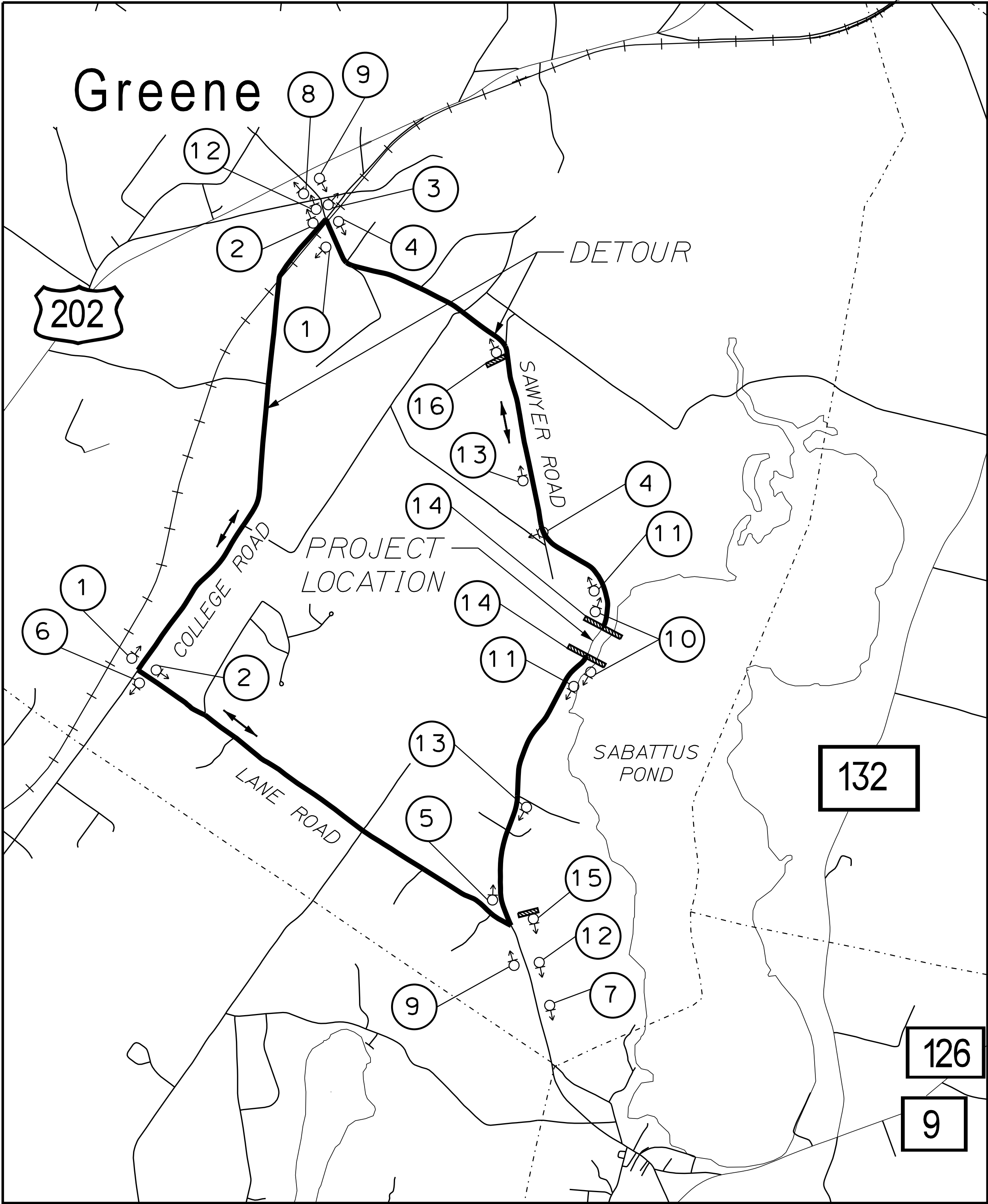
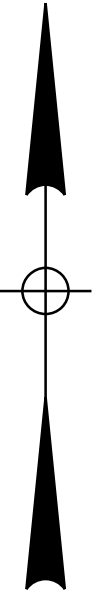
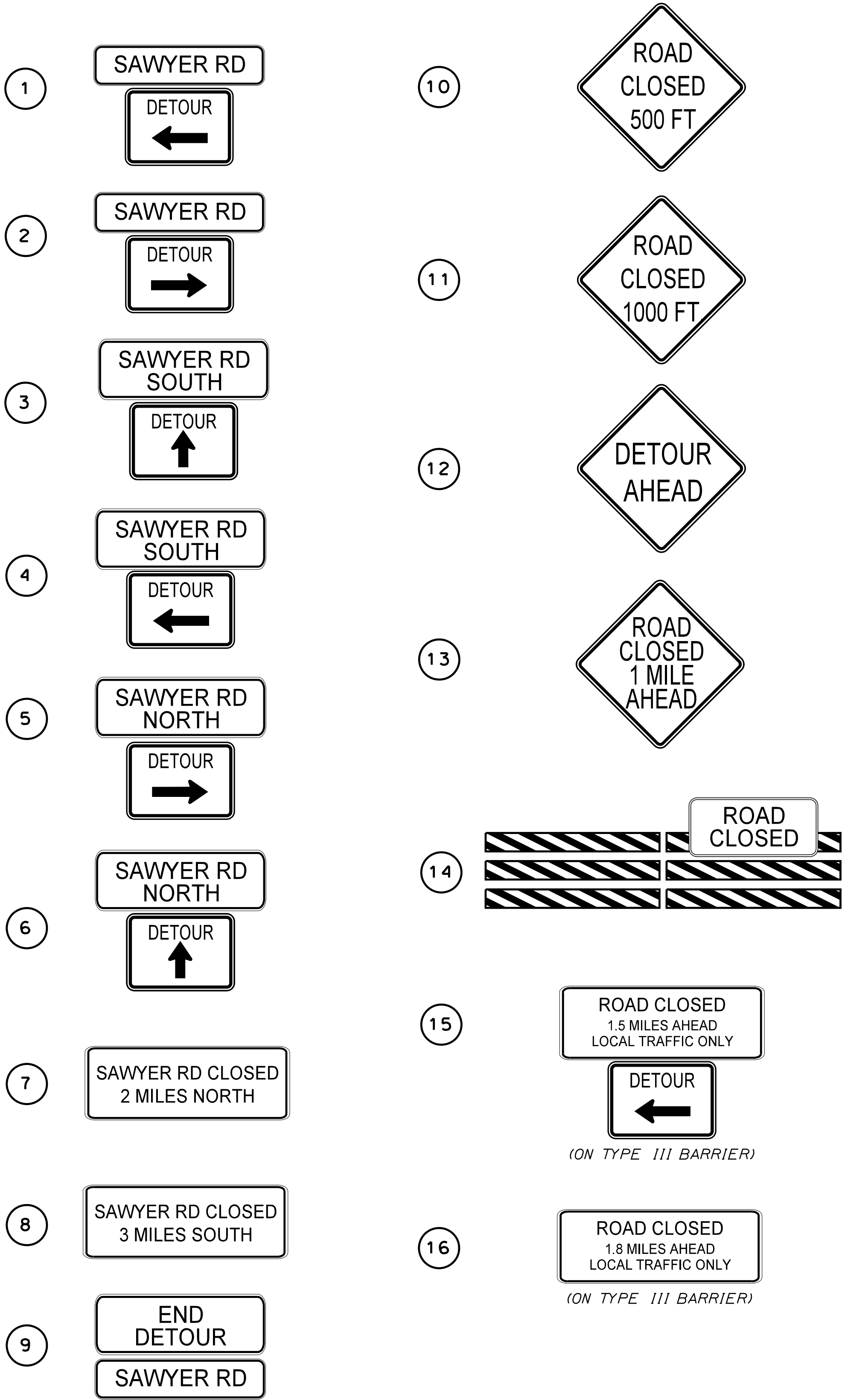
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SAWYER ROAD

CROSS SECTIONS

OF 13

Sta. 32+75.00 to Sta. 33+00.00



NOT TO SCALE

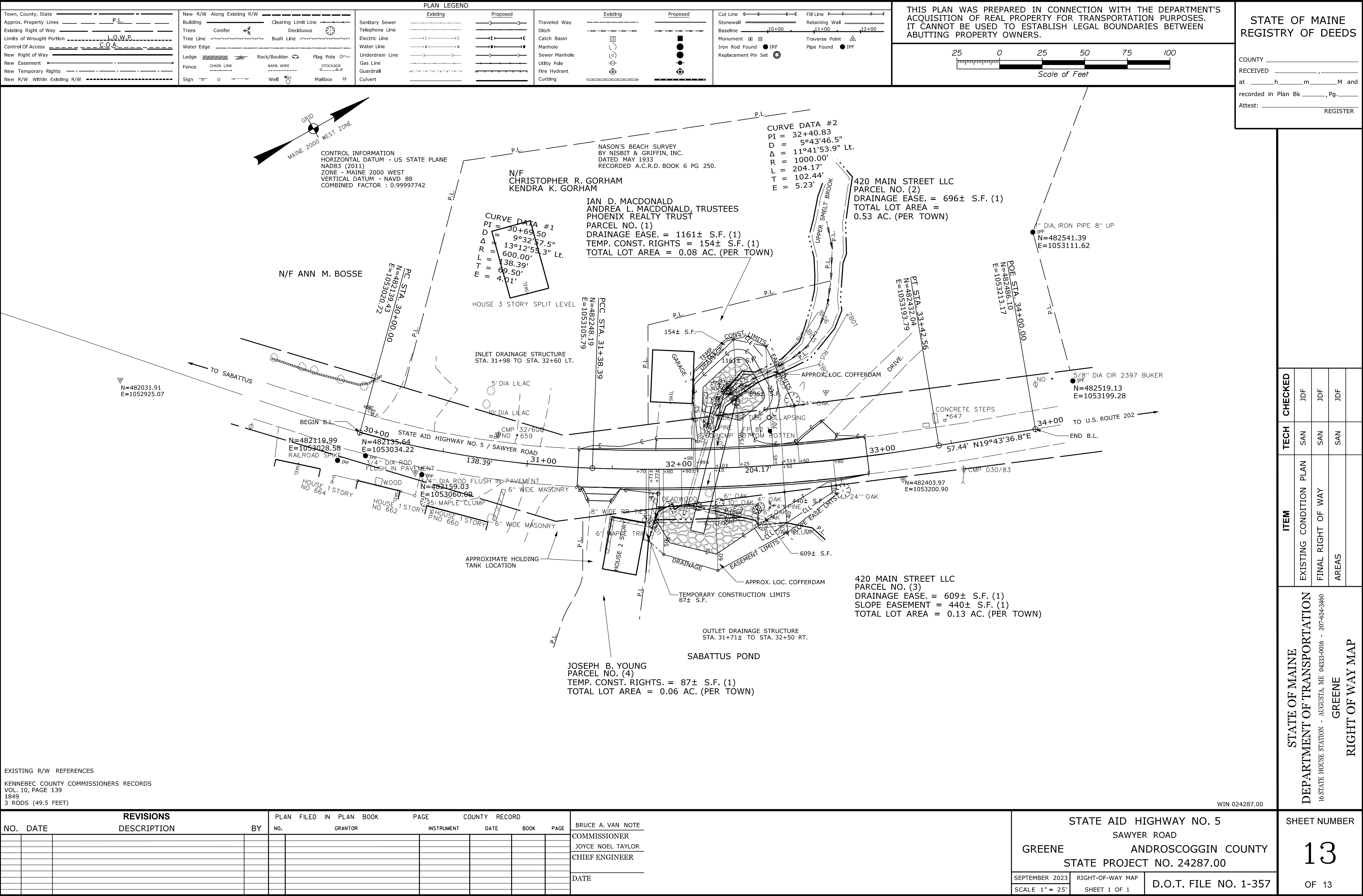
DETOUR NOTES:

COLLEGE ROAD - LANE ROAD - SAWYER ROAD FORM A 9.3 MILE DETOUR LOOP TO BE UTILIZED TO NAVIGATE AROUND THE PROJECT SITE DURING ROADWAY CLOSURE.

NORTHBOUND DETOUR: TAKE LANE ROAD, 1.6 MILE SOUTH OF THE PROJECT, TURN RIGHT ONTO COLLEGE ROAD HEADING TOWARDS DOWNTOWN GREENE, THEN TAKE A RIGHT ONTO SAWYER RD.

SOUTHBOUND DETOUR: AT THE INTERSECTION OF COLLEGE ROAD AND SAWYER ROAD, NEAR DOWNTOWN GREENE, TAKE COLLEGE ROAD SOUTHBOUND, TURN LEFT ONTO LANE ROAD AND LEFT AGAIN ONTO SAWYER ROAD.

SHEET NUMBER				STATE OF MAINE			
12				DEPARTMENT OF TRANSPORTATION			
				--			
DETOUR PLAN				PROJ. MANAGER	R. Betz	BY	DATE
				DESIGN-DETAILED	T. Higginson	M. Grole	10/29/21
				CHECKED-REVIEWED	--	--	--
				DESIGN-DETAILED2	T. Higginson	M. Grole	03/10/23
				DESIGN-DETAILED3	T. Higginson	M. Grole	03/11/24
				REVISIONS 1	--	--	P.E. NUMBER
				REVISIONS 2	--	--	--
				REVISIONS 3	--	--	--
				REVISIONS 4	--	--	DATE
				FIELD CHANGES	--	--	--
				WIN 24287.00			
				HIGHWAY PLANS			



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



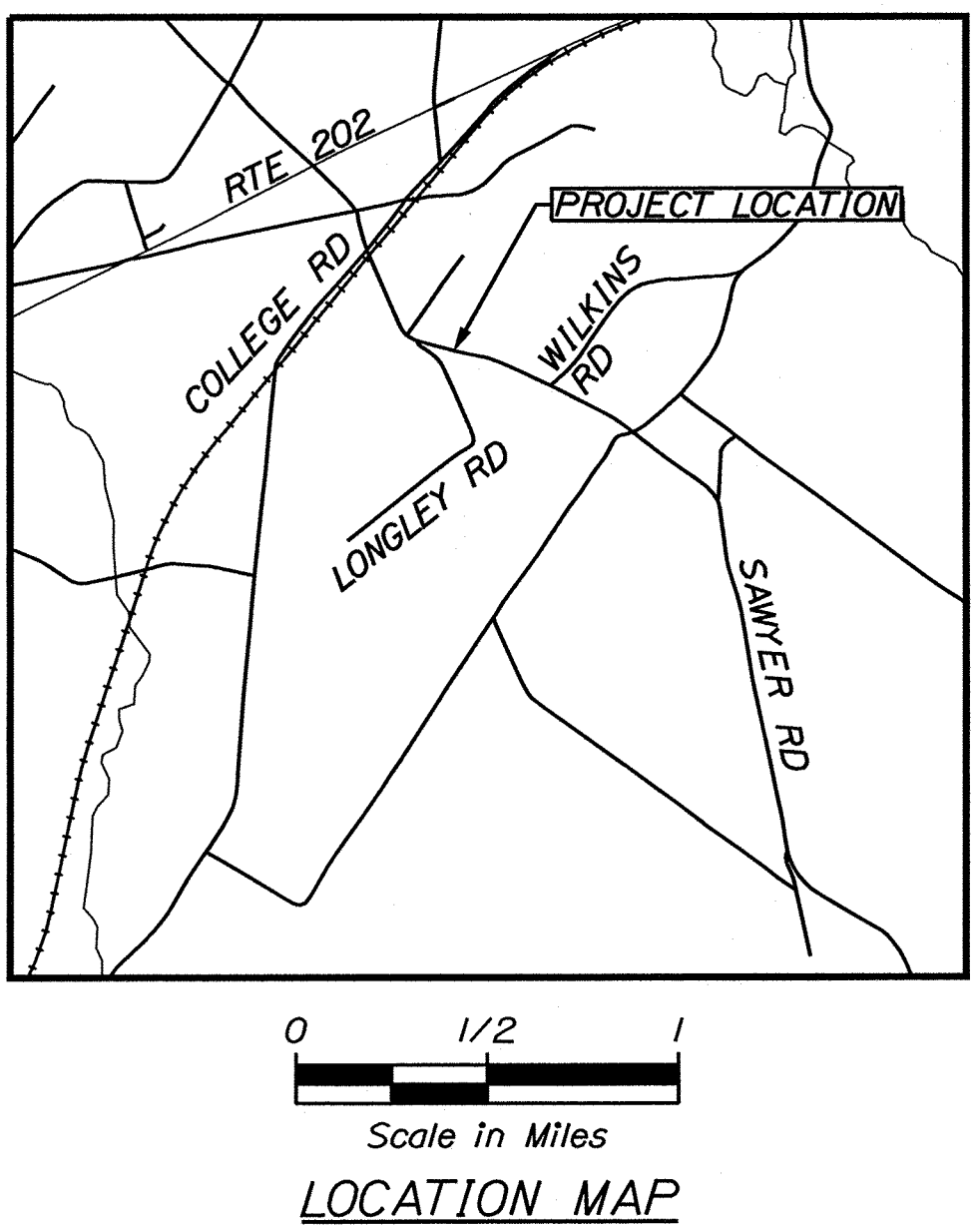
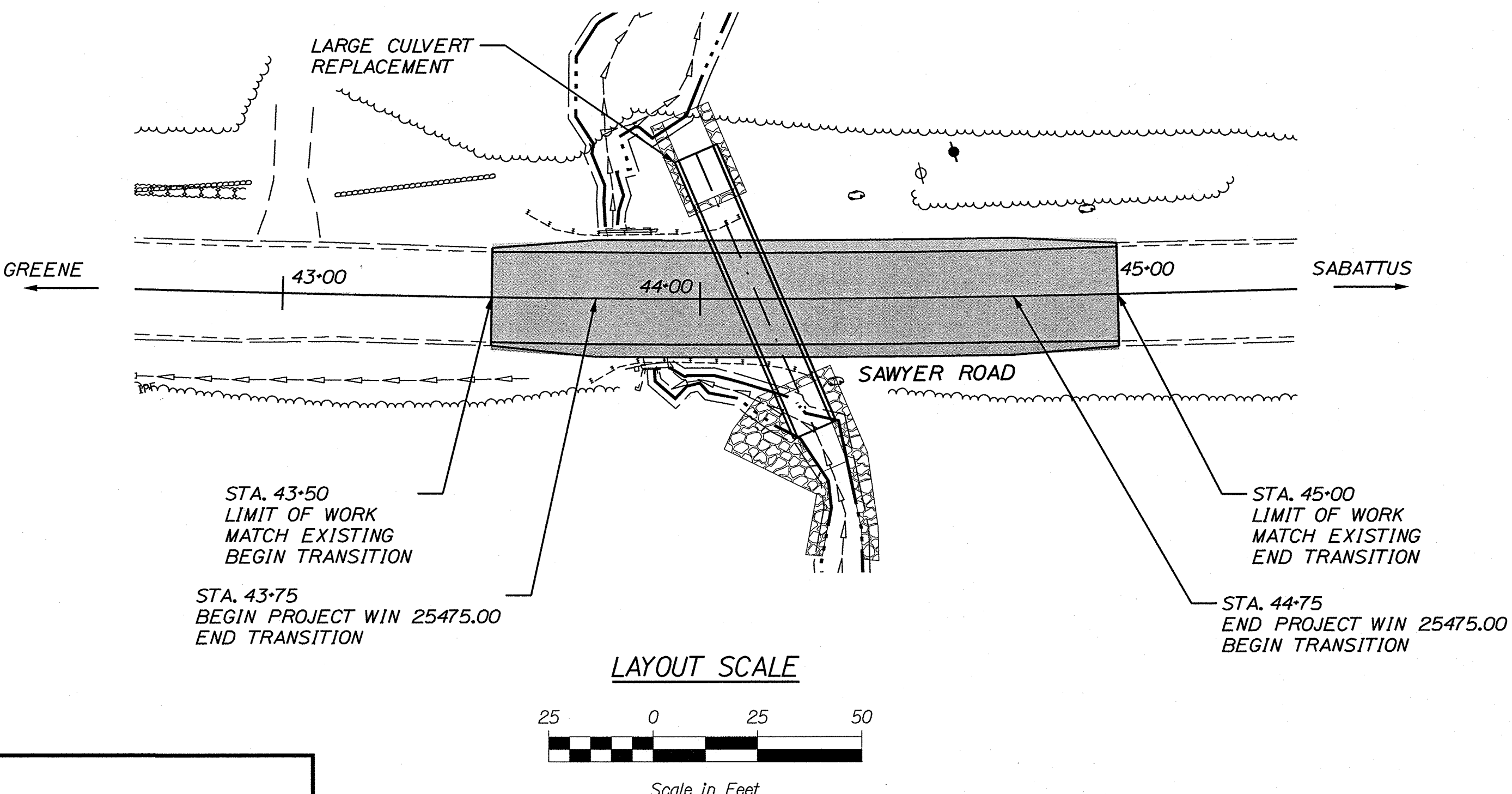
GREENE
ANDROSCOGGIN COUNTY
SAWYER ROAD
STATE PROJECT NO. 25475.00
PROJECT LENGTH: 0.02 MILES

PLAN LEGEND

Town, County, State	-----	Catch Basins	Existing	Proposed
Property Lines	-----	Manholes	Existing	Proposed
R/W Lines-Existing	-----	Proposed Underdrain	-----	-----
R/W Lines-Proposed	-----	Proposed Ditch	-----	-----
Culvert-Existing	-----	Existing Ditch	-----	-----
Culvert Proposed	-----	Utility Poles	Existing	Proposed
Curbing	Existing	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	Centerline-Existing	-----	-----
Tree Line	-----	Centerline-Proposed	-----	-----
Clearing Limit Line	CLL	Travelway-Existing	-----	-----
Railroad	-----	Travelway-Proposed	-----	-----
Boring	HB-XXX-###	Probe	P-#.X	
Pavement Core	PC-#			
Test Pit	TP-XXX-###			

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Section, General Notes & Est. Quantities	2
Culvert Details	3
Streambed Details	4
Boring Location Plan and Interpretive Subsurface Profile	5
Boring Logs	6
Plan & Profile	7
Cross Sections	8-11
Detour Plan	12
Right of Way Map	13



TRAFFIC DATA	Sawyer Road
Current (2024) AADT	1910
Future (2036) AADT	2020
DHV - % of AADT	13%
Design Hour Volume	263
% Heavy Trucks (AADT)	4%
% Heavy Trucks (DHV)	3%
Directional Distribution (DHV)	70%
18 kip Equivalent P 2.0	11
18 kip Equivalent P 2.5	10
Design Speed (mph)	35
Functional Class	MINOR COLLECTOR
Highway Corridor Priority	4

PROJECT LOCATION:	SAWYER ROAD LOCATED APPROXIMATELY 0.26 MILES WEST OF WILKINS ROAD IN THE TOWN OF GREENE.
PROGRAM AREA:	REGIONAL PROGRAM
SCOPE OF WORK:	LARGE CULVERT REPLACEMENT

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED
COMMISSIONER
3-18-24

DATE
3-18-24

CHIEF ENGINEER
3-18-24

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SIGNATURE
12558
3/11/2024

DESIGNER
T. HIGGINS
WSP USA, Inc.

CONSULTANT
WSP USA, Inc.

PROJECT RESIDENT
CONTRACTOR

PROJECT COMPLETION DATE

GREENE
SAWYER ROAD

TITLE SHEET

SHEET NUMBER
1

OF 13

WIN 25475.00

GENERAL NOTES:

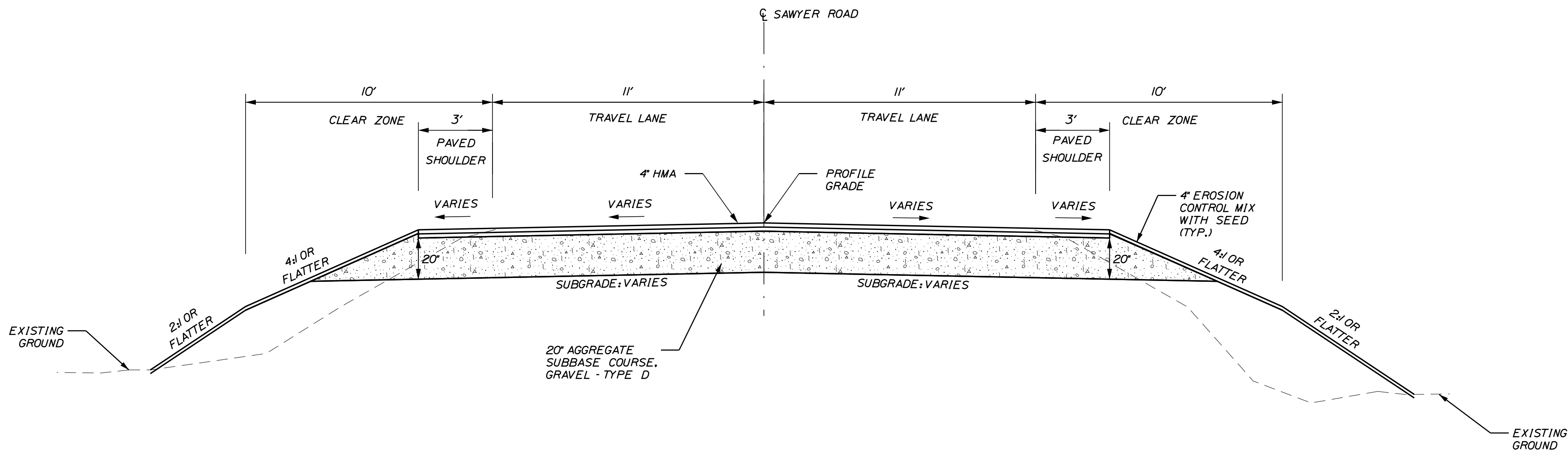
1. PAVEMENT THICKNESSES SHOWN ON THE TYPICAL SECTIONS ARE INTENDED TO BE NOMINAL.
2. CLEARING LIMITS SHALL BE 10 FEET BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
3. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT 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. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT.
5. THE CONTRACTOR SHALL PLAN AND CONDUCT WORK SO THAT UPON COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF THE SHOULDER PAVEMENT.
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.

CONSTRUCTION NOTES:

1. IF STRIPING IS NOT COMPLETE WITHIN THE PROJECT CLOSURE DURATION, TEMPORARY PAVEMENT MARKINGS, OR TEMPORARY OVERLAY MARKERS (TOMS), SHALL BE INCIDENTAL TO PAVING.
2. BEDROCK EXCAVATION FOR THE APPROACH/DEPARTURE CHANNEL REALIGNMENT AT THE CULVERT ENDS SHALL BE FIELD VERIFIED AND ADJUSTED IN COORDINATION WITH MAINEDOT ENVIRONMENT TO MINIMIZE OVER EXCAVATION. WHERE ENCOUNTERED, THE BEDROCK SURFACE SHALL REMAIN IF FEASIBLE AND NOT BE OVER EXCAVATED TO PLACE RIPRAP, ROCK FEATURES OR STREAMBED MATERIAL.
3. 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.
4. 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.

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. HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE CONSIDERED INCIDENTAL TO STANDARD SPECIFICATIONS SECTION 606, GUARDRAIL.
10. ALL EXISTING GUARDRAIL REMOVED AND NOT REUSED ON THE PROJECT WILL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
11. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT, BOTH YELLOW CENTERLINE AND WHITE EDGE LINES AND WILL BE CONSIDERED PART OF STANDARD SPECIFICATIONS ITEM 627.78, TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT
13. 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.
14. THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL DESIGN REPORT FOR THE REPLACEMENT OF CROSS CULVERT XC-1088854", SOILS REPORT 2024-01, MARCH 7, 2024 CAN BE ACCESSED AT THE MAINEDOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).

15. 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.
16. AREAS ON THE PROJECT REQUIRING FILL WILL COME FROM SUITABLE SITES SUCH AS EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
17. 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.
18. 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.
19. 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.



FULL DEPTH CONSTRUCTION
NOT TO SCALE
STATION TO STATION
43+75 TO 44+75

Estimated Quantities			
ITEM NO.	DESCRIPTION	QUANTITY	Unit
203.20	COMMON EXCAVATION	490	CY
203.25	GRANULAR BORROW	125	CY
203.33	SPECIAL FILL - STREAMBED MATERIAL	40	CY
206.07	STRUCTURAL ROCK EXCAV - DRAINAGE & MINOR	285	CY
304.10	AGGR SUBB COURSE - GRAVEL	310	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	51	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	51	T
409.15	BITUMINOUS TACK COAT - APPLIED	14	G
508.13	SHEET WATERPROOFING MEMBRANE	1	LS
511.07	COFFERDAM DOWNSTREAM	1	LS
511.07	COFFERDAM UPSTREAM	1	LS
534.71	PRECAST CONCRETE BOX CULVERT	1	LS
610.212	STREAMBED ROCK FEATURES	7	CY
610.213	VOID-FILLED RIPRAP	100	CY
613.319	EROSION CONTROL BLANKET	135	SY
618.141	SEEDING METHOD NUMBER 3	5	UN
619.14	EROSION CONTROL MIX	62	CY
620.58	EROSION CONTROL GEOTEXTILE	265	SY
627.733	4" WHITE OR YELLOW PAINTED PAVE MRK LINE	450	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL-PURPOSE EXC (INC OPERATOR)	10	HR
631.133	SKID STEER (INCLUDING OPERATOR)	10	HR
631.172	TRUCK-LARGE (INC OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	TYPE III BARRICADE	6	EA
652.33	DRUM	30	EA
652.34	CONE	90	EA
652.35	CONSTRUCTION SIGNS	500	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	32	CD
652.38	FLAGGER	300	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMP SOIL EROSION & WATER POLLUTION CTRL	1	LS
659.10	MOBILIZATION	1	LS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

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WIN
25475.00
HIGHWAY PLANS

PROJ. MANAGER
R. Betz
BY
M. Grole
DATE
04/15/22

CHECKED-REVIEWED
T. Higginson
DESIGNED-DETAILED
T. Higginson
DESIGNED-DETAILED
T. Higginson
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

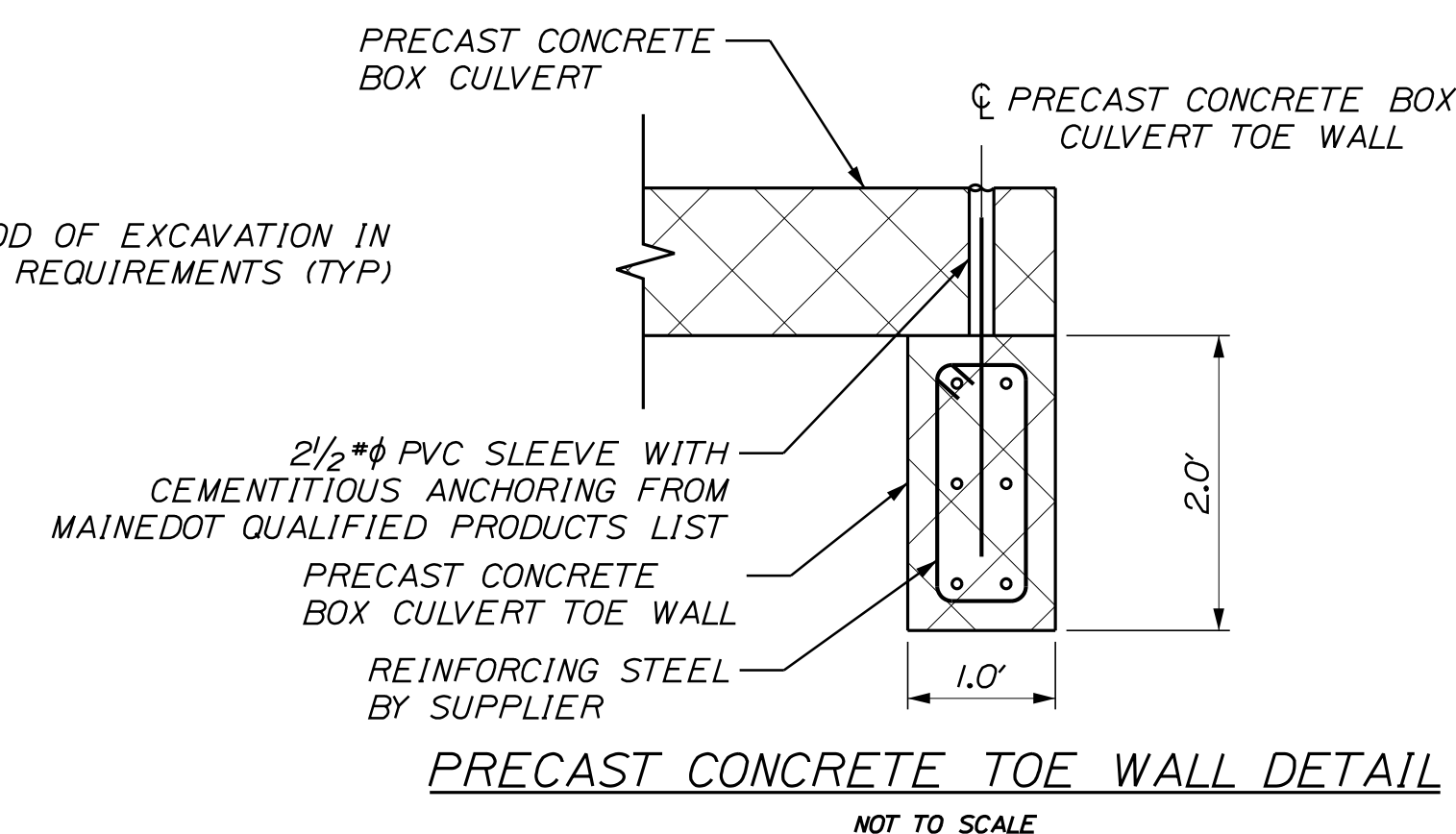
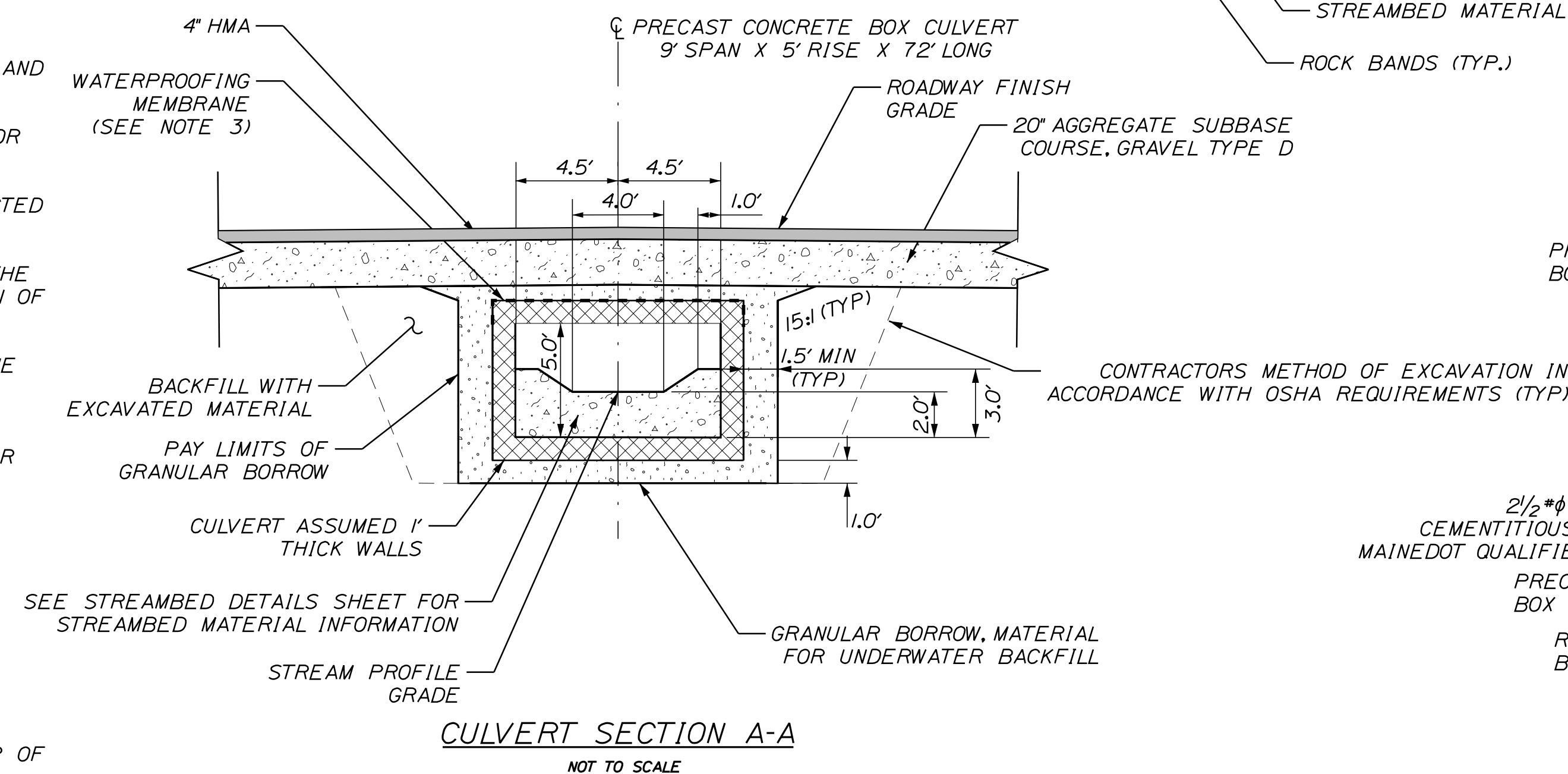
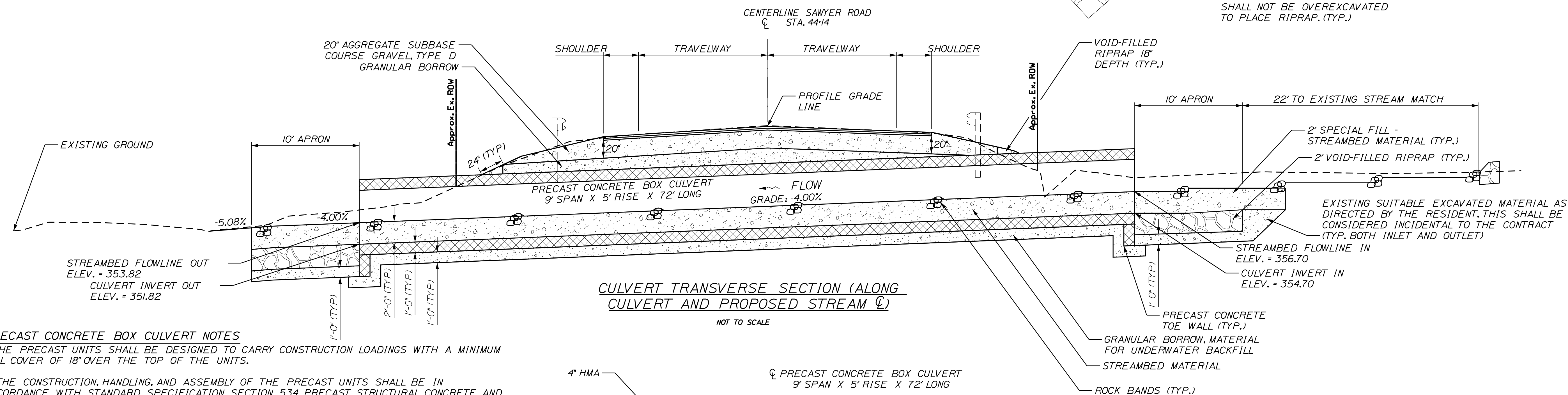
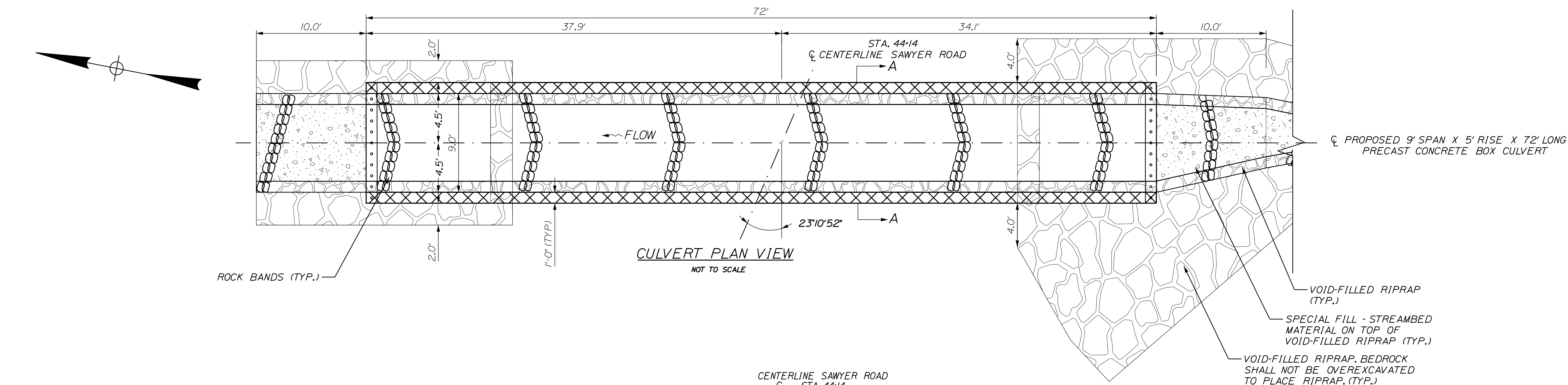
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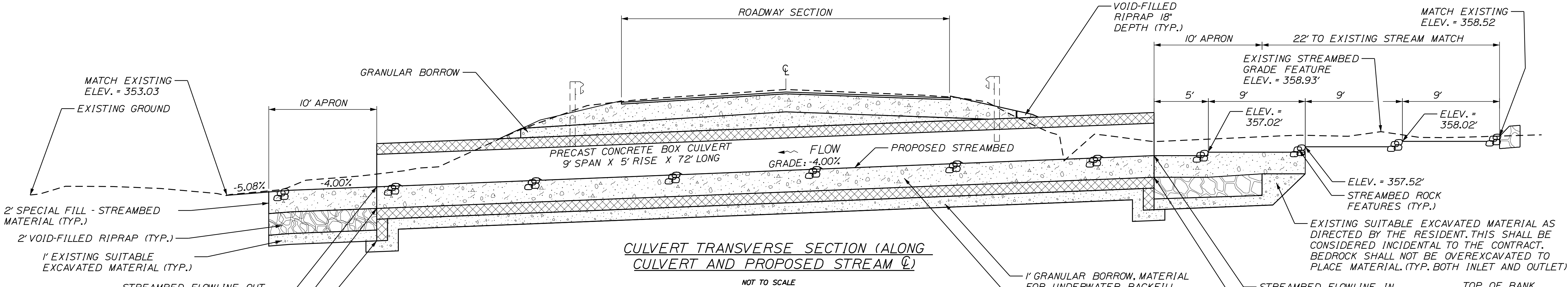
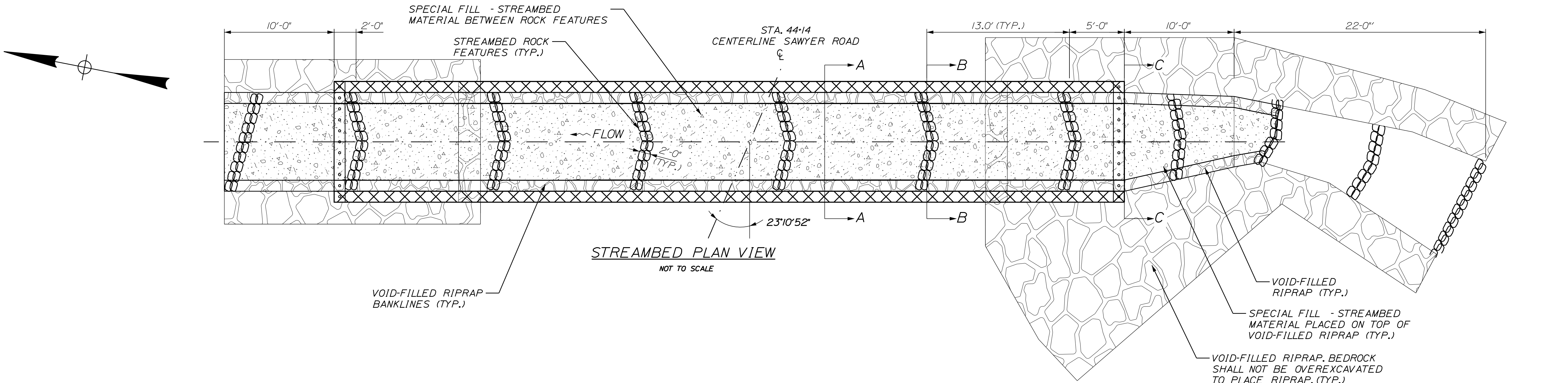
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P.E. NUMBER
DATE

GREENE
SAWYER ROAD

TYPICAL SECTION, GENERAL
NOTES & ESTIMATED QUANTITIES

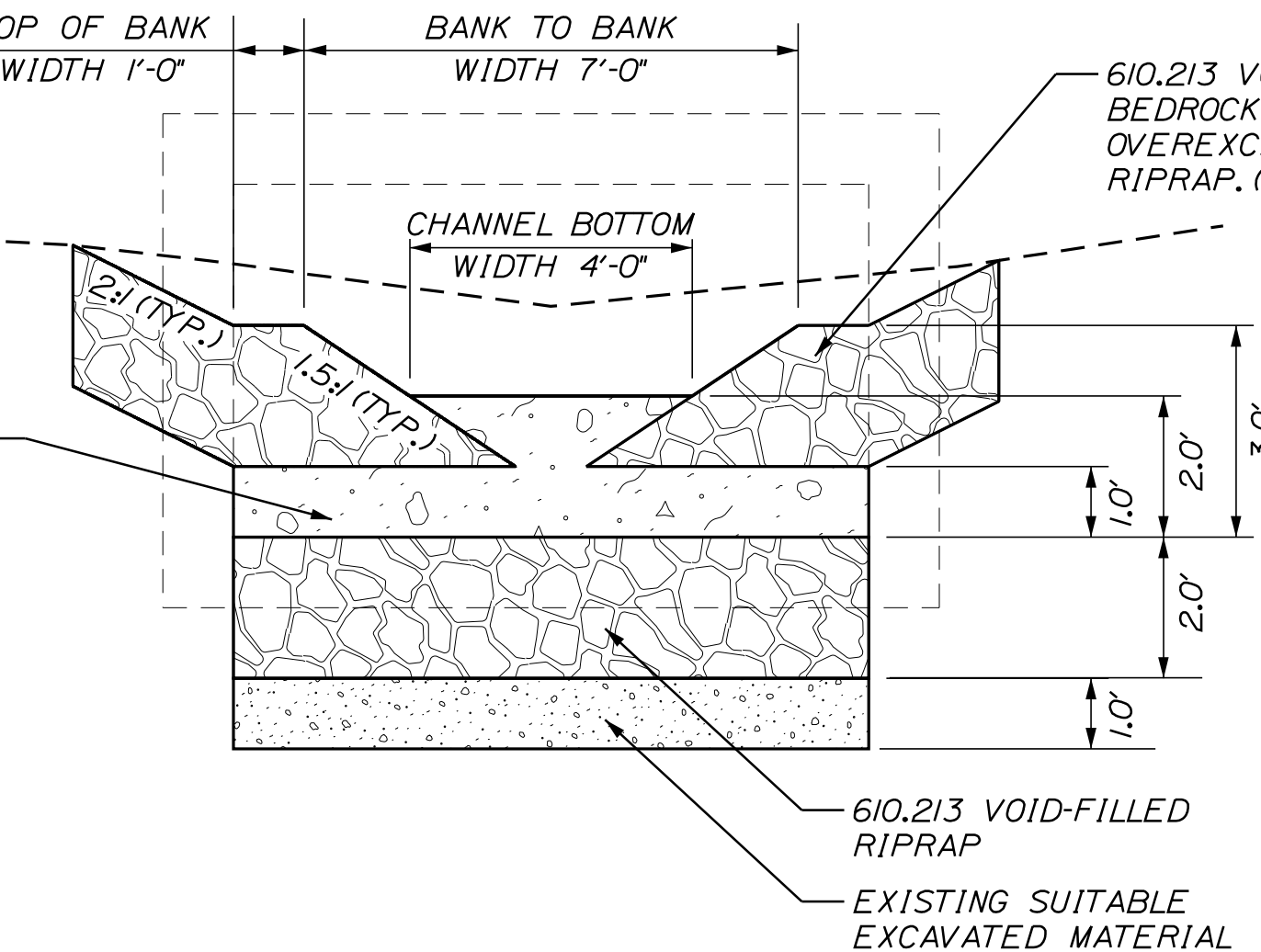
SHEET NUMBER
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OF 13



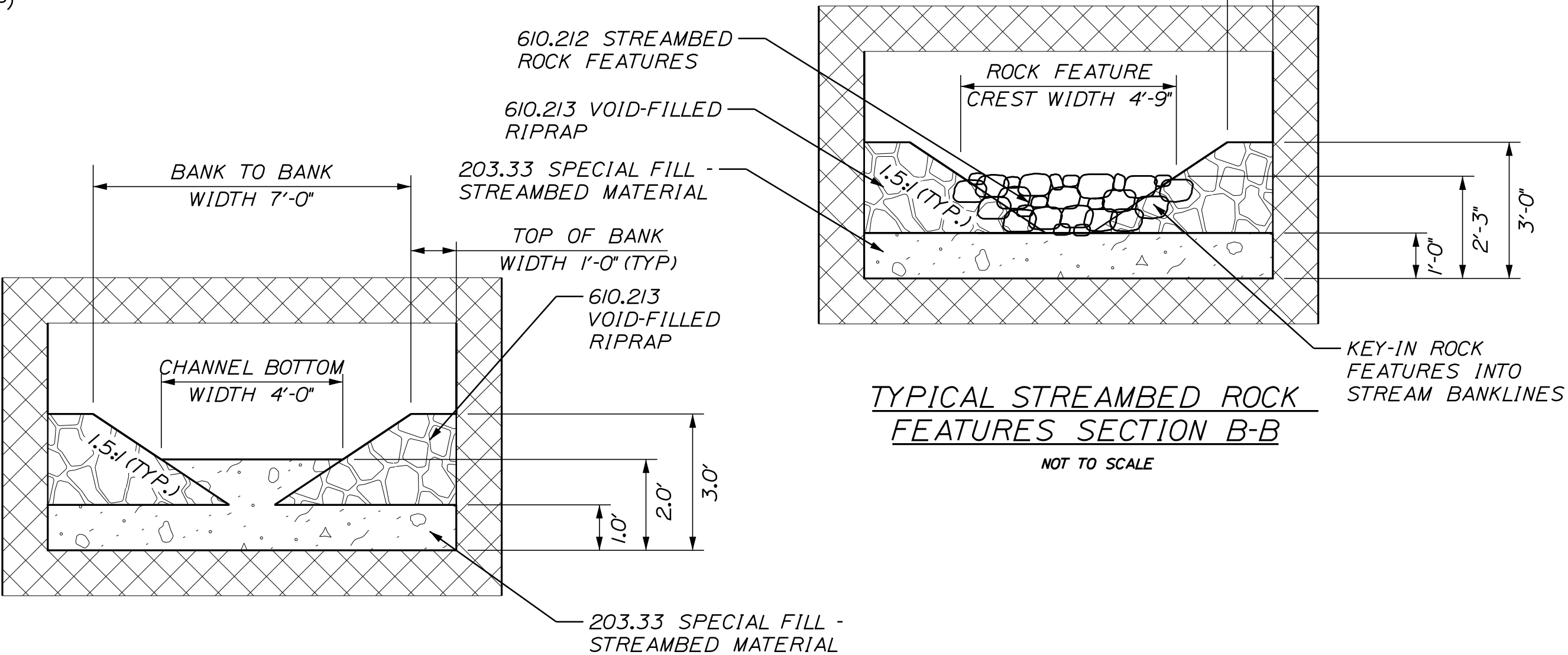


STREAMBED NOTES

1. SPECIAL FILL - STREAMBED MATERIAL SHALL BE THOROUGHLY MIXED PRIOR TO PLACEMENT.
2. PLACE 1.0 FT LIFT OF SPECIAL FILL ON THE INVERT, MACHINE TAMP AND WATER-IN. THE RESIDENT SHALL APPROVE THE LIFT BEFORE PLACEMENT OF THE BANKLINES, ROCKBANDS AND THE FINAL LIFT.
3. THE ROCK BANDS SHALL BE VEE SHAPED AND BEND UPSTREAM AS SHOWN ON THE PLANS.
4. THE AVERAGE FLOW LINE OF THE ROCK BANDS PLACED WITHIN THE CULVERT SHALL BE 2.25 FT ABOVE THE INVERT. THE FLOW LINE IS MEASURED AT THE CONTACT POINT BETWEEN ADJACENT ROCKS.
5. VOIDS IN THE STREAMBED MATERIAL, BANKLINE STONE AND ROCK BANDS SHALL BE FILLED AND SEALED WITH FILLER MATERIAL SO THAT WATER REMAINS ON THE SURFACE OF THE CHANNEL, STAYS BETWEEN THE BANKLINES AND DOES NOT PIPE THROUGH THE STONE. REFER TO SPECIAL PROVISIONS 203 AND 610.
6. LAYOUT AND CONFIGURATION OF ROCK FEATURES IN THE STREAM BED SHALL BE APPROVED BY THE RESIDENT AND/OR MAINEDOT ENVIRONMENTAL STAFF.

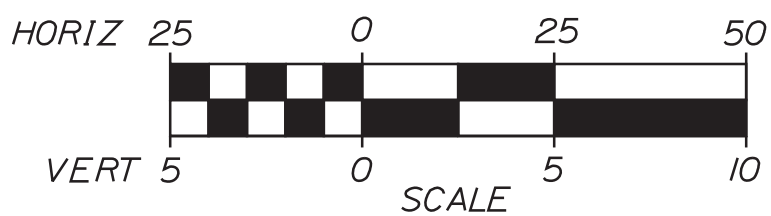
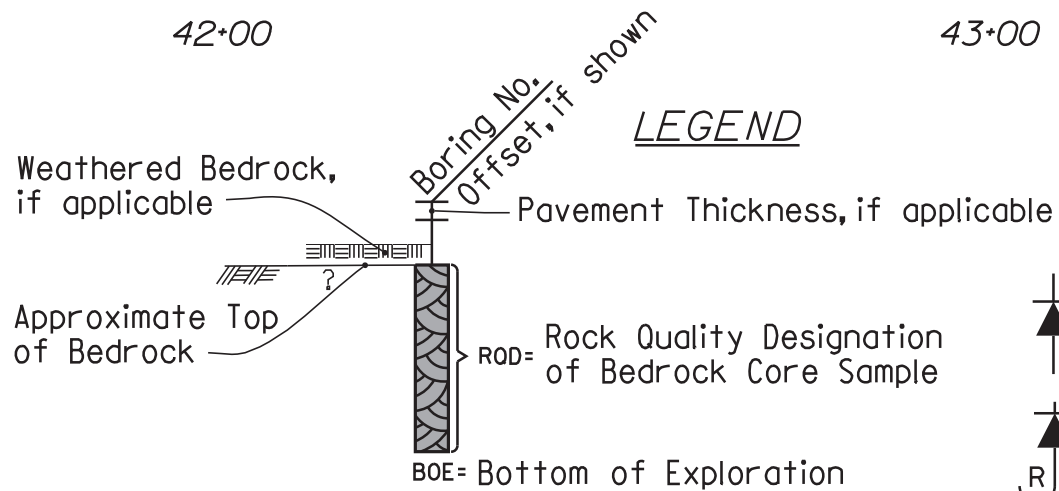
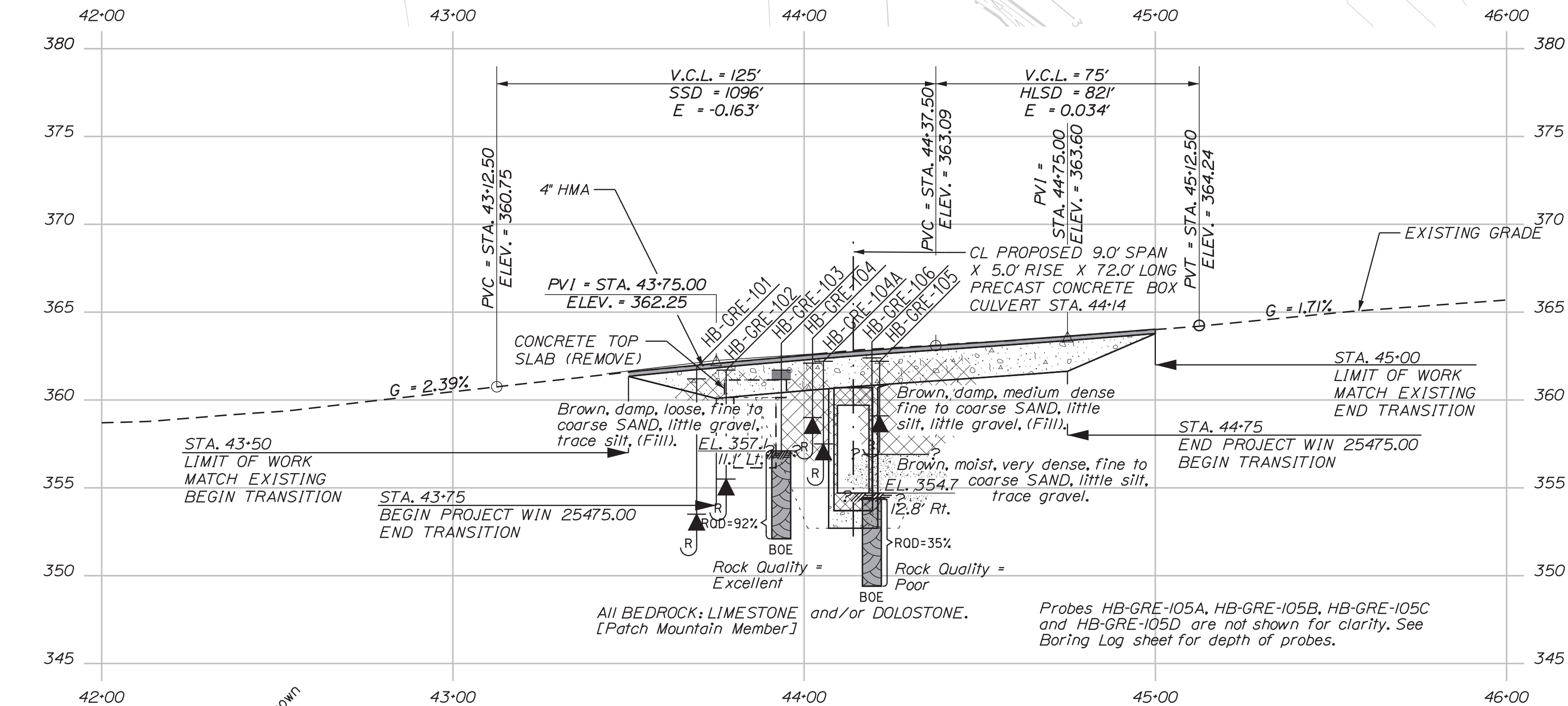
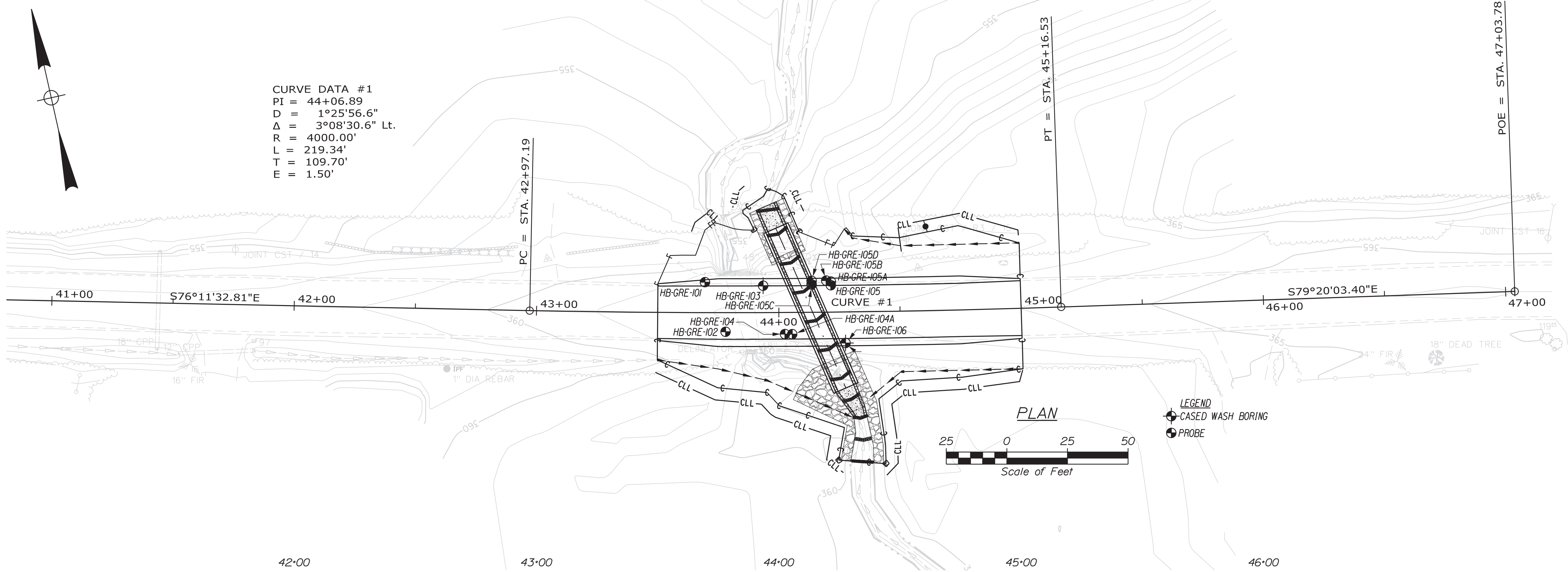


TYPICAL SECTION AT INLET AND OUTLET C-C
 NOT TO SCALE



TYPICAL STREAMBED ROCK FEATURES SECTION B-B
 NOT TO SCALE

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		--		WIN 25475.00		HIGHWAY PLANS	
PROJECT MANAGER		BY		DATE		SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		R. Betz		04/15/22		T. Higginson		--	
CHECKED-REVIEWED		M. Grole		08/05/22		C. Sharp		--	
DESIGN-DETAILED		T. Higginson		03/17/24		M. Grole		--	
REVISIONS 1		--		--		--		DATE	
REVISIONS 2		--		--		--		--	
REVISIONS 3		--		--		--		--	
REVISIONS 4		--		--		--		--	
FIELD CHANGES		--		--		--		--	
GREENE SAWYER ROAD		SHEET NUMBER		4		OF 13		STREAMBED DETAILS	



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		25475.00		WIN 25475.00		HIGHWAY PLANS	
STATE OF MAINE CODY A. RUSSELL 15866 PROFESSIONAL		SIGNATURE JUL 2021 C. RUSSELL		P.E. NUMBER 15866 DATE		SHEET NUMBER 5	
GREENE SAWYER ROAD BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE		PROJECT MANAGER CHECKED-REVIEWED DESIGNED-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES					

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS				Project: Large Culvert Replacement on Sawyer Road Location: Greene, Maine				Boring No.: HB-GRE-101 WIN: 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Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS				Project: Large Culvert Replacement on Sawyer Road Location: Greene, Maine				Boring No.: HB-GRE-104A WIN: 25475.00				
Drilling Contractor: MainDOT		Elevation (ft.): 362.2		Auger ID/OD: 5" Dia.		Datum: NAVD88		Operator: Daggett/Jay		Sampler: N/A		
Logged By: B. Wilder		Rig Type: CME 45C		Hammer Wt./Fall: N/A		Core Barrels: N/A		Date Start/Finish: 6/30/2021-7/1/2021		Drilling Method: Solid Stem Auger		
Boring Location: 4449.5, 8.9 ft L.R.		Casing ID/OD: N/A		Water Level: N/A		None Observed						
DEFINITIONS: S = Split Spoon Sample M = Unconsolidated Thin Wall Tube Sample Attempt WHP = Weight of 1 Person S = Split Spoon Sample S = Rock Core Sample S _u = Peak/Retained Field Vane Undrained Shear Strength (psi) B = Bucket Sample off Auger Flights S _u = Solid Stem Auger S _u = Lab Vane Undrained Shear Strength (psi) M = Unconsolidated Split Spoon Sample Attempt S _u = Solid Stem Auger S _u = Unclassified Compressive Strength (psi) U = Thin Wall Tube Sample RC = Roller Core PI = Plasticity Index PI = Plasticity Index M = Unconsolidated Field Vane Shear Test Attempt RC = Roller Core PI = Plasticity Index PI = Plasticity Index U = Field Vane Shear Test RC = Roller Core PI = Plasticity Index PI = Plasticity Index												
Sample Information												
Depth (ft.)	Sample No.	Pen./Res. (in.)	Sample Depth (ft.)	Blows / 6 in. Strength (lb/ft ²)	N-value	Casing Elevation (ft.)	Casing Log	Visual Description and Remarks				Laboratory Testing Results/ASHTO and Unified Class
0						362.2		Probe, no material descriptions given.				
5						357.5		Bottom of Exploration at 4.7 feet below ground surface.				4.70
10												
Remarks:												
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-GRE-104A				

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS				Project: Large Culvert Replacement on Sawyer Road Location: Greene, Maine				Boring No.: HB-GRE-105C WIN: 25475.00																											
Drilling Contractor: MainDOT		Elevation (ft.): 362.0		Auger ID/OD: 5" Dia.		Datum: NAVD88		Operator: Daggett/Jay		Sampler: N/A																									
Logged By: B. Wilder		Rig Type: CME 45C		Hammer Wt./Fall: N/A		Core Barrels: N/A		Date Start/Finish: 6/30/2021-7/1/2021		Drilling Method: Solid Stem Auger																									
Boring Location: 44+13.6, 11.5 ft L.T.		Casing ID/OD: N/A		Water Level: N/A		None Observed																													
DEFINITIONS: S = Split Spoon Sample S = Split Spoon Sample B = Bucket Sample off Auger Flights M = Unconsolidated Split Spoon Sample Attempt U = Thin Wall Tube Sample M = Unconsolidated Field Vane Shear Test Attempt U = Field Vane Shear Test												M = Unconsolidated Thin Wall Tube Sample Attempt M = Rock Core Sample S = Solid Stem Auger S _u = Hollow Stem Auger RC = Roller Core WHP = Weight of 1 Person S _u = Peak/Retained Field Vane Undrained Shear Strength (psi) S _u = Lab Vane Undrained Shear Strength (psi) S _u = Unclassified Compressive Strength (psi) N-value = Blow Field SPT N-value PI = Plasticity Index S = Split Spoon Sample W = Water Contents percent												WHP = Weight of 1 Person S _u = Peak/Retained Field Vane Undrained Shear Strength (psi) S _u = Lab Vane Undrained Shear Strength (psi) S _u = Unclassified Compressive Strength (psi) N-value = Blow Field SPT N-value PI = Plasticity Index S = Split Spoon Sample W = Water Contents percent											
Depth (ft.)		Sample Information		Visual Description and Remarks		Laboratory Testing Results/ASHTO and Unified Class																													
Sample No.		Pen./Res. (in.)		Sample Depth (ft.)		Blows / 6 in. Strength (lb/ft ²)		N-value		Casing Log																									
5																																			
10																																			
Remarks:																																			
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-GRE-105C																																			

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS				Project: Large Culvert Replacement on Sawyer Road Location: Greene, Maine				Boring No.: HB-GRE-102 WIN: 25475.00			
Drilling Contractor: MainDOT				Elevation (ft.): 361.7		Auger ID/OD: 5" Dia.		Datum: NAVD88		Operator: Daggett/Jay	
Logged By: B. Wilder				Rig Type: CME 45C		Hammer Wt./Fall: N/A		Core Barrels: N/A		Date Start/Finish: 6/30/2021-7/1/2021	
Boring Location: 43477.8, 1.9 FT RL				Casing ID/OD: N/A		Water Level: None Observed		None Observed		None Observed	
DEFINITIONS: S = Split Spoon Sample S = Split Spoon Sample B = Bucket Sample off Auger Flights M = Unconsolidated Split Spoon Sample Attempt U = Thin Wall Tube Sample V = Field Vane Shear Test RC = Roller Core WHP = Weight of 1 Person S _u = Peak/Retained Field Vane Undrained Shear Strength (psi) S _u = Lab Vane Undrained Shear Strength (psi) N = Unclassified Compressive Strength (psi) PI = Plasticity Index PI = Plasticity Index PI = Plasticity Index C = Cassio (psi) Index C = Cassio (psi) Index											
Sample Information				Visual Description and Remarks				Laboratory Testing Results/ASHTO and Unified Class			
Depth (ft.)	Sample No.	Pen./Res. (in.)	Sample ID (ft.)	Blows / 6 in. Strength (lb/ft ²)	N-value	Casing Log	Visual Description and Remarks	Laboratory Testing Results/ASHTO and Unified Class			
0											
5					355.5		Probe, no material descriptions given.				
10							Bottom of Exploration at 6.2 feet below ground surface.	4.20			
Remarks:											
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-GRE-102			

Maine Department of Transportation				Project: Large Culvert Replacement on Sawyer Road		Boring No.: HB-GRE-105	
Soil/Rock Exploration Log				Location: Greene, Maine		WIN: 25475.00	
US CUSTOMARY UNITS							
Drilling Contractor: MainDOT		Elevation (ft.): 362.2		Auger ID/OD: 5" Dia.			
Operator: Daggett/Jay		Datum: NAVD88		Sampler: N/A			
Logged By: B. Wilder		Rig Type: CME 45C		Hammer Wt./Fall: N/A			
Date Start/Finish: 6/30/2021-7/1/2021		Drilling Method: Solid Stem Auger		Core Barrels: N/A			
Boring Location: 4421.3, 11.1 ft L.T.		Casing ID/OD: N/A		Water Level: N/A		None Observed	
DEFINITIONS: S = Split Spoon Sample S = Sample off Auger Flights B = Bucket Sample off Auger Flights M = Unconsolidated Split Spoon Sample Attempt U = Thin Wall Tube Sample M = Unconsolidated Field Vane Shear Test Attempt U = Field Vane Shear Test				P = Rock Core Sample S _u = Solid Stem Auger M = Roller Core RC = Weight of 100lb Hammer WHP = Weight of Bore or Casing			
Depth (ft.)		Sample Information		Visual Description and Remarks		Laboratory Testing Results/ASHTO and Unified Class	
Sample No.		Pen./Res. (in.)		Sample Depth (ft.)		Blows / 6 in. Strength (lb/ft ²)	
5		C		N-value		Casing Log	
10		B		R		S	
15		S		S		S	
20		S		S		S	
25		S		S		S	
30		S		S		S	
35		S		S		S	
40		S		S		S	
45		S		S		S	
50		S		S		S	
55		S		S		S	
60		S		S		S	
65		S		S		S	
70		S		S		S	
75		S		S		S	
80		S		S		S	
85		S		S		S	
90		S		S		S	
95		S		S		S	
100		S		S		S	
105		S		S		S	
110		S		S		S	
115		S		S		S	
120		S		S		S	
125		S		S		S	
130		S		S		S	
135		S		S		S	
140		S		S		S	
145		S		S		S	
150		S		S		S	
155		S		S		S	
160		S		S		S	
165		S		S		S	
170		S		S		S	
175		S		S		S	
180		S		S		S	
185		S		S		S	
190		S		S		S	
195		S		S		S	
200		S		S		S	
205		S		S		S	
210		S		S		S	
215		S		S		S	
220		S		S		S	
225		S		S		S	
230		S		S		S	
235		S		S		S	
240		S		S		S	
245		S		S		S	
250		S		S		S	
255		S		S		S	
260		S		S		S	
265		S		S		S	
270		S		S		S	
275		S		S		S	
280		S		S		S	
285		S		S		S	
290		S		S		S	
295		S		S		S	
300		S		S		S	
305		S		S		S	
310		S		S		S	
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325		S		S		S	
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355		S		S		S	
360		S		S		S	
365		S		S		S	
370		S		S		S	
375		S		S		S	
380		S		S		S	
385		S		S		S	
390		S		S		S	
395		S		S		S	
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405		S		S		S	
410		S		S		S	
415		S		S		S	
420		S		S		S	
425		S		S		S	
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435		S		S		S	
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445		S		S		S	
450		S		S		S	
455		S		S		S	
460		S		S		S	
465		S		S		S	
470		S		S		S	
475		S		S		S	
480		S		S		S	
485		S		S		S	
490		S		S		S	
495		S		S		S	
500		S		S		S	
505		S		S		S	
510		S		S		S	
515		S		S		S	
520		S		S		S	
525		S		S		S	
530		S		S		S	
535		S		S		S	
540		S		S		S	
545		S		S		S	
550		S		S		S	
555		S		S		S	
560		S		S		S	
565		S		S		S	
570		S		S		S	
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790		S		S		S	
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1080		S		S		S	
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1355		S		S		S	
1360		S		S		S	
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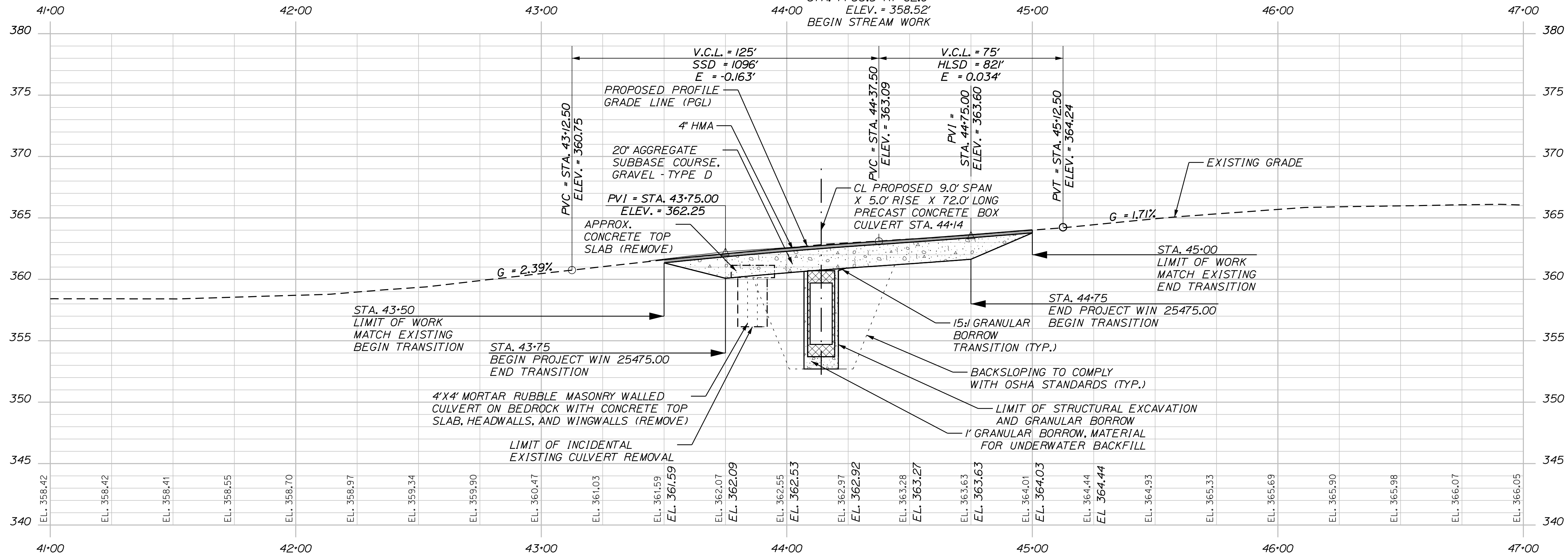
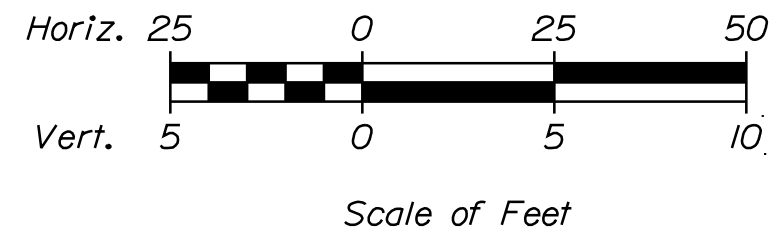
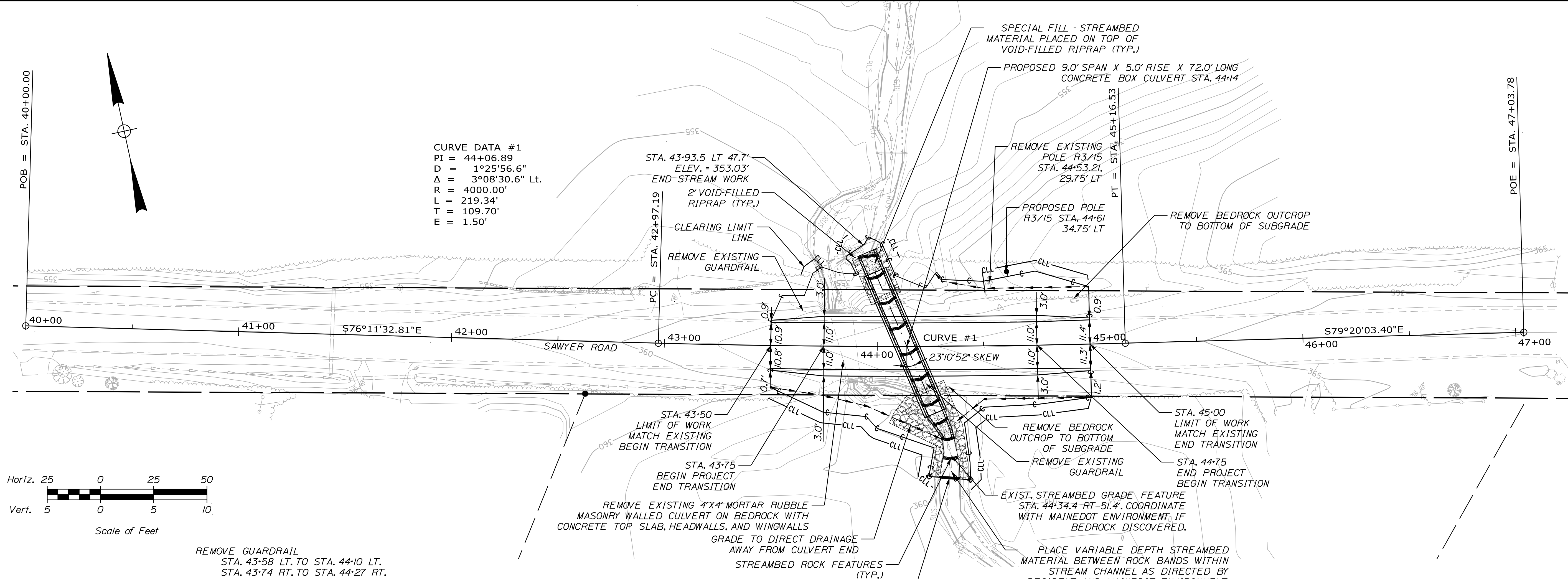
Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS			
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Username: WSP USA, Inc.

Date: 03/11/2024

Division: Regional

Filename: GREENE



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
--
WIN 25475.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE
R. Betz	T. Hodgson	04/15/22	--
CHECKED-REVIEWED	M. Grole	--	--
DESIGNS-DETAILED	C. Shorp	08/05/22	--
DESIGNS-DETAILED	T. Hodgson	03/17/24	--
REVISIONS 1	--	--	--
REVISIONS 2	--	--	--
REVISIONS 3	--	--	--
REVISIONS 4	--	--	--
FIELD CHANGES	--	--	--

GREENE
SAWYER ROAD
PLAN & PROFILE

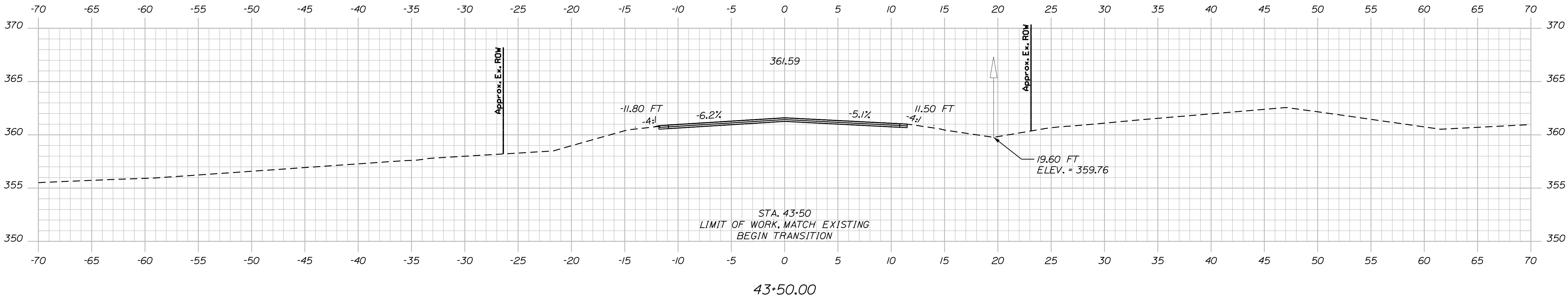
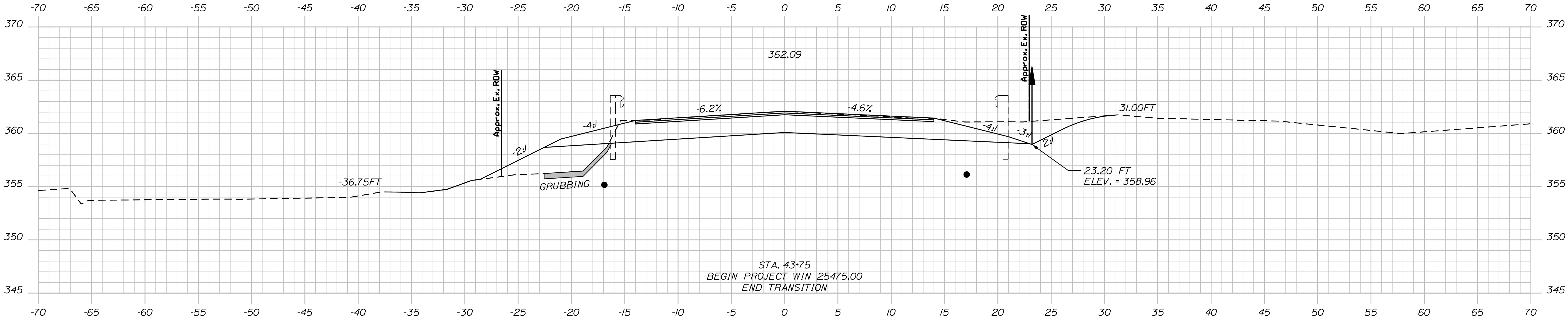
SHEET NUMBER
7
OF 13

Date:03/11/2024

Username: WSP USA, Inc.

Division: Regional

Filename: GREENE



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
	--	
	WIN	25475.00

PROJ. MANAGER	BY	DATE
R. Betz	M. Gole	04/15/22
CHECKED-REVIEWED		SIGNATURE
DESIGN-DETAILED	C. Sharp	08/05/22
DESIGN-DETAILED	T. Higginson	03/11/24
REVISIONS 1		P.E. NUMBER
REVISIONS 2		DATE
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

GREENE SAWYER ROAD	CROSS SECTIONS

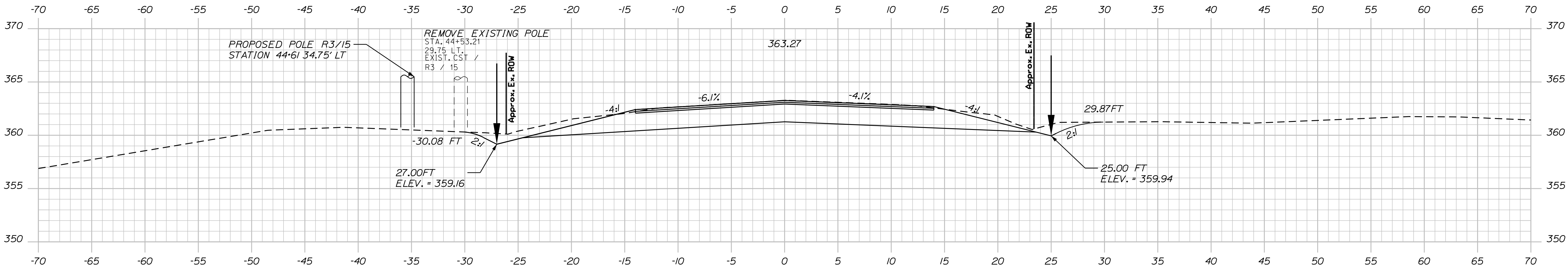
SHEET NUMBER
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OF 13

Date:03/11/2024

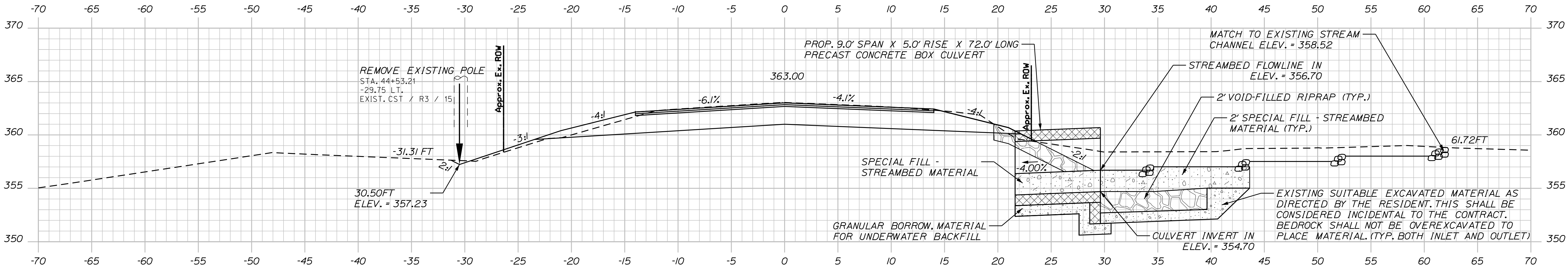
Username: WSP USA, Inc.

Division: Regional

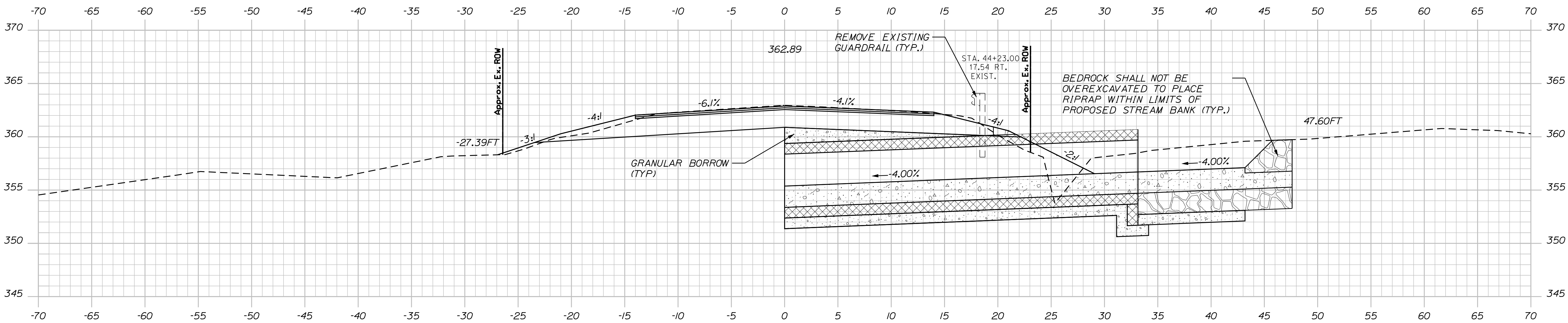
Filename: GREENE



44+50.00



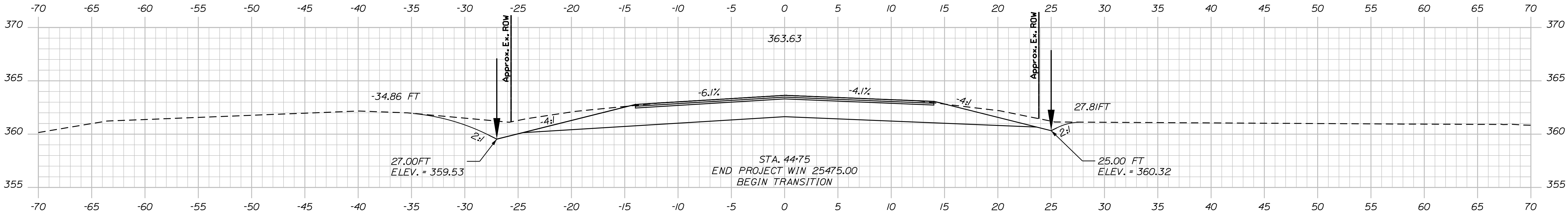
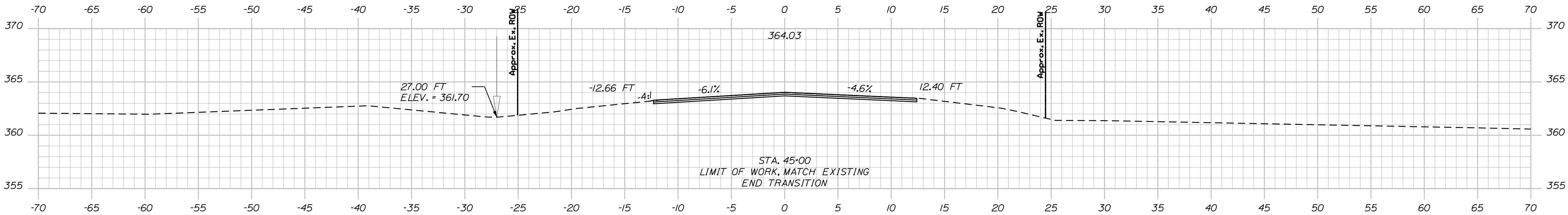
44+31.00



44+23.00

STA. 43+74 RT TO 44+27 RT
REMOVE GUARDRAIL

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		SIGNATURE		P.E. NUMBER		DATE	
--		--		--		--	
WIN		25475.00		HIGHWAY PLANS			
GREENE SAWYER ROAD		CROSS SECTIONS		SHEET NUMBER		10	
						OF 13	



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
--	
WIN	25475.00
HIGHWAY PLANS	

PROJ. MANAGER	R. Betz	BY	DATE
DESIGN-DETAILED	T. Higginson	M. Grole	04/15/22
CHECKED-REVIEWED	--	--	--
DESIGN-DETAILED	T. Higginson	C. Sharp	08/05/22
DESIGN-DETAILED	T. Higginson	M. Grole	03/11/24
REVISIONS 1	--	--	--
REVISIONS 2	--	--	--
REVISIONS 3	--	--	--
REVISIONS 4	--	--	--
FIELD CHANGES	--	--	--
SIGNATURE		P.E. NUMBER	
DATE		DATE	

GREENE SAWYER ROAD	
CROSS SECTIONS	

SHEET NUMBER
11
OF 13

1

SAWYER RD
DETOUR
→

2

SAWYER RD
DETOUR
←

3

SAWYER RD
DETOUR
↑

4

ROAD CLOSED
500 FT

5

ROAD CLOSED
1000 FT

6

DETOUR
AHEAD

7

SAWYER RD CLOSED
0.5 MILE SOUTH

8

SAWYER RD CLOSED
1 MILE SOUTH

9

SAWYER RD CLOSED
3 MILES NORTH

10

SAWYER RD CLOSED
5 MILES NORTH

11

END
DETOUR
SAWYER RD

12

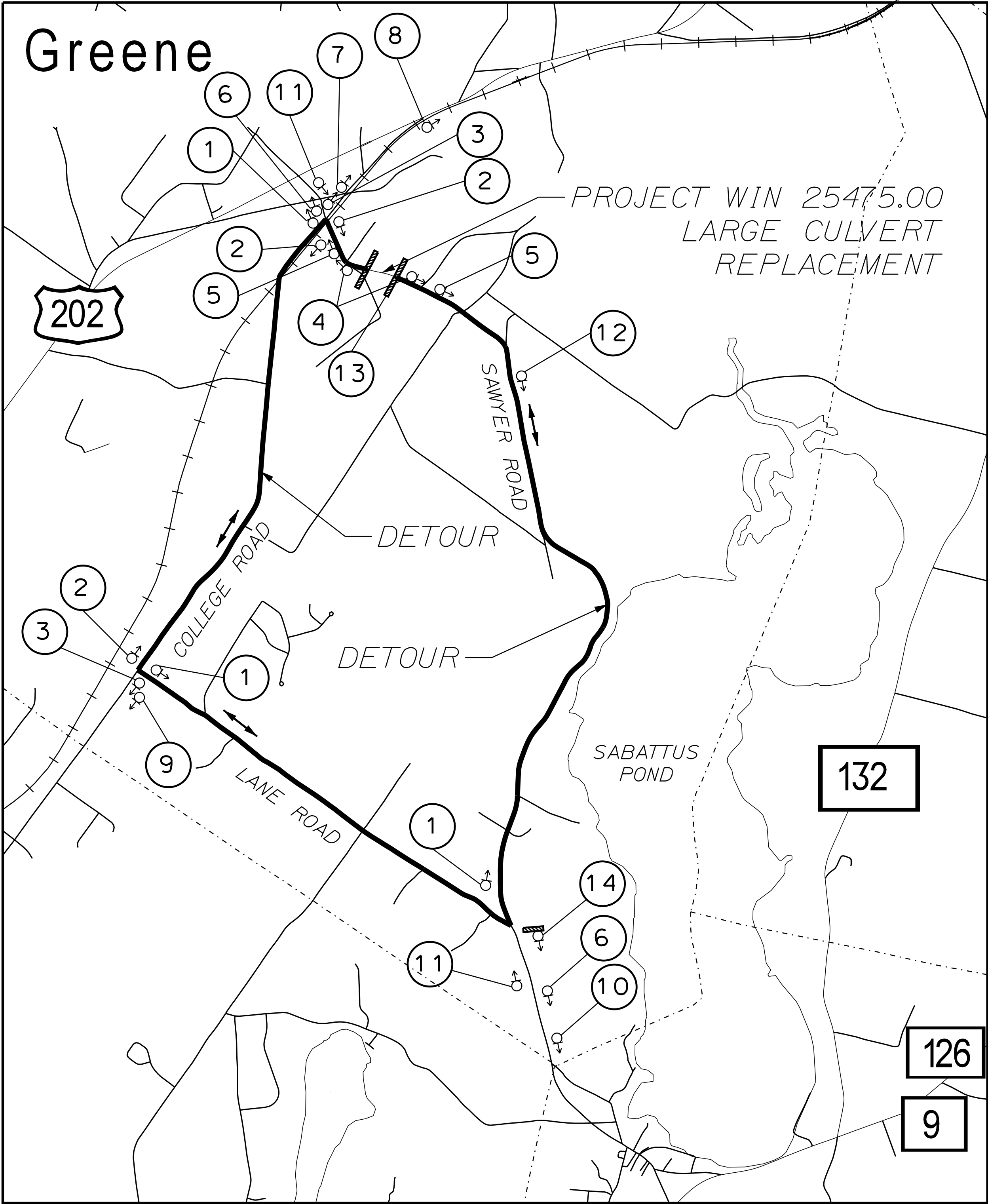
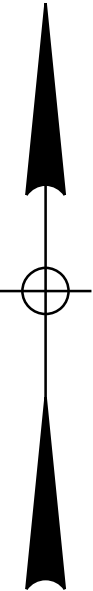
ROAD CLOSED
1 MILE
AHEAD

13

ROAD CLOSED

14

ROAD CLOSED
4.3 MILES AHEAD
LOCAL TRAFFIC ONLY
DETOUR
←
(ON TYPE III BARRIER)



DETOUR NOTES:

COLLEGE ROAD - LANE ROAD - SAWYER ROAD FORM A 9.3 MILE DETOUR LOOP TO BE UTILIZED TO NAVIGATE AROUND THE PROJECT SITE DURING ROADWAY CLOSURE.

NORTHBOUND DETOUR: TAKE LANE ROAD, 4.1 MILES SOUTH OF THE PROJECT, TURN RIGHT ONTO COLLEGE ROAD HEADING TOWARDS DOWNTOWN GREENE, THEN TAKE A LEFT ONTO SAWYER RD.

SOUTHBOUND DETOUR: AT THE INTERSECTION OF COLLEGE ROAD AND SAWYER ROAD, NEAR DOWNTOWN GREENE, TAKE COLLEGE ROAD SOUTHBOUND, TURN LEFT ONTO LANE ROAD AND RIGHT AGAIN ONTO SAWYER ROAD.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		--		WIN 25475.00		HIGHWAY PLANS	
PROJ. MANAGER		BY		DATE		SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		R. Betz		04/15/22		T. Higginson		03/17/24	
CHECKED-REVIEWED		M. Grole		--		C. Sharp		--	
DESIGN-DETAILED		T. Higginson		08/05/22		T. Higginson		--	
DESIGN-DETAILED		T. Higginson		03/17/24		M. Grole		--	
REVISIONS 1		--		--		--		DATE	
REVISIONS 2		--		--		--		--	
REVISIONS 3		--		--		--		--	
REVISIONS 4		--		--		--		--	
FIELD CHANGES		--		--		--		--	
GREENE SAWYER ROAD		DETOUR PLAN		SHEET NUMBER		12		OF 13	

Division: \$wkgroup\$

Username: \$user\$

Date: \$date\$

Filename: \$file\$

