

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



ST. AGATHA AROOSTOOK COUNTY CLEVELAND ROAD STATE PROJECT NO. 21830.00 PROJECT LENGTH: 0.04 MILES

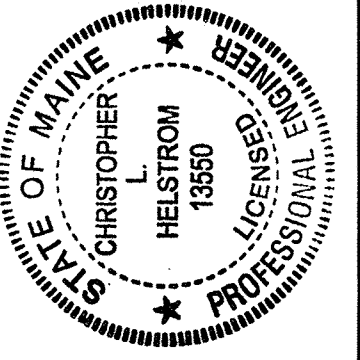
PLAN LEGEND

Town, County, State	_____	Catch Basins	▣ Existing	▣ Proposed
Property Lines	-----	Manholes	○ Existing	● Proposed
R/W Lines-Existing	-----	Proposed Underdrain	-----	
R/W Lines-Proposed	-----	Proposed Ditch	-----	
Culvert-Existing	-----	Existing Ditch	-----	
Culvert Proposed	-----	Utility Poles	⊕ Existing	⊕ Proposed
Curbing	Existing Proposed	Fire Hydrants	⊙ 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	-----	
Clearing Limit Line	-----	Travelway-Existing	-----	
Railroad	-----	Travelway-Proposed	-----	
Boring	HB-XXX-###	Probe	⊙ P-#. #X	
Pavement Core	● PC-#	#.# = Depth	X = W (Weathered Rock)	
Test Pit	▣ TP-XXX-###	R (Refusal)	NR (No Refusal)	

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2
Estimated Quantities & General Notes	3
Special Details	4
Boring Location Plan & Interpretive Subsurface Profile with Boring Logs	5
Plan	6
Profile	7
Cross Sections	8-13
Right of Way Map	14

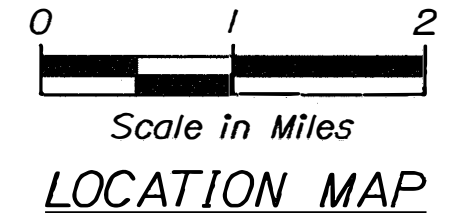
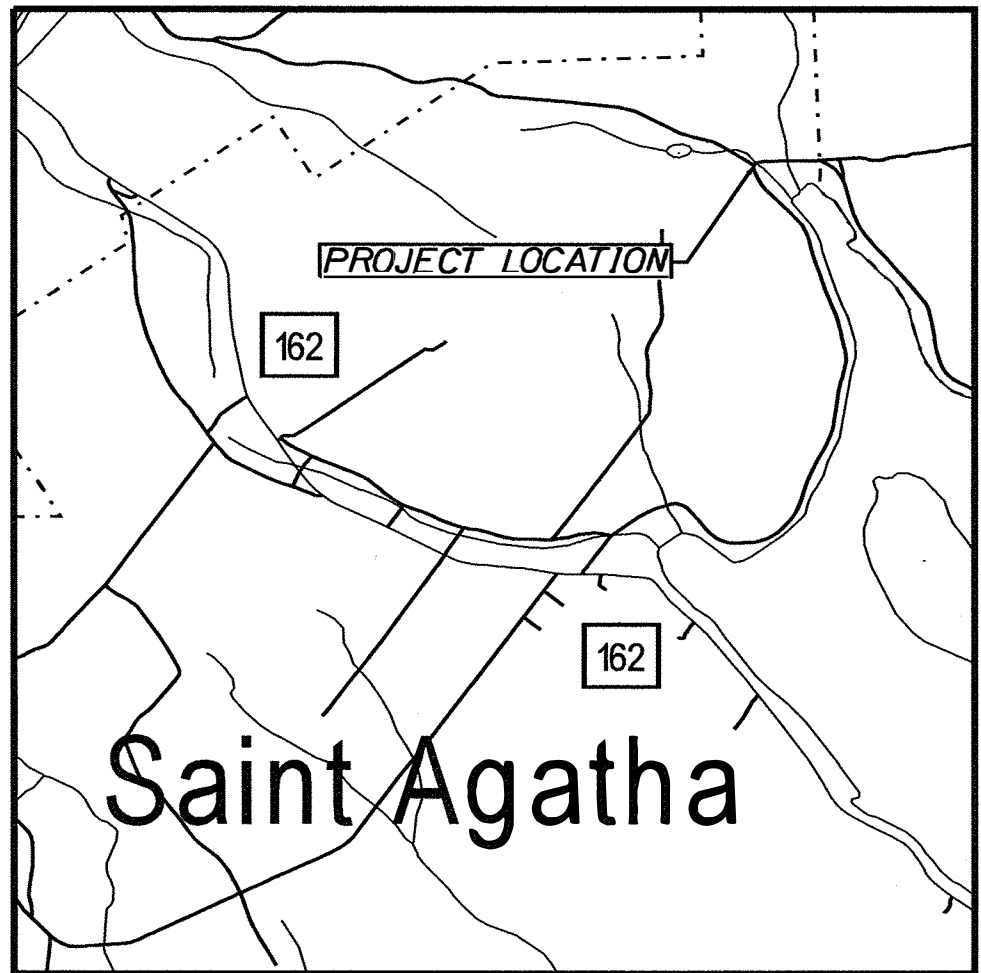
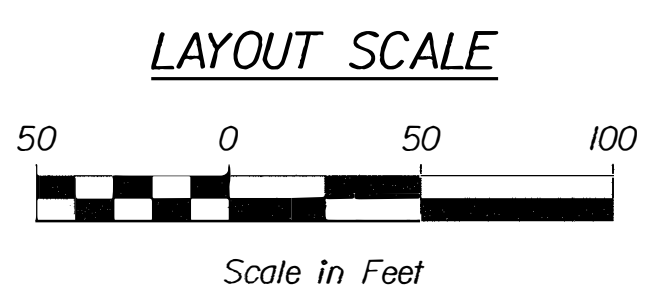
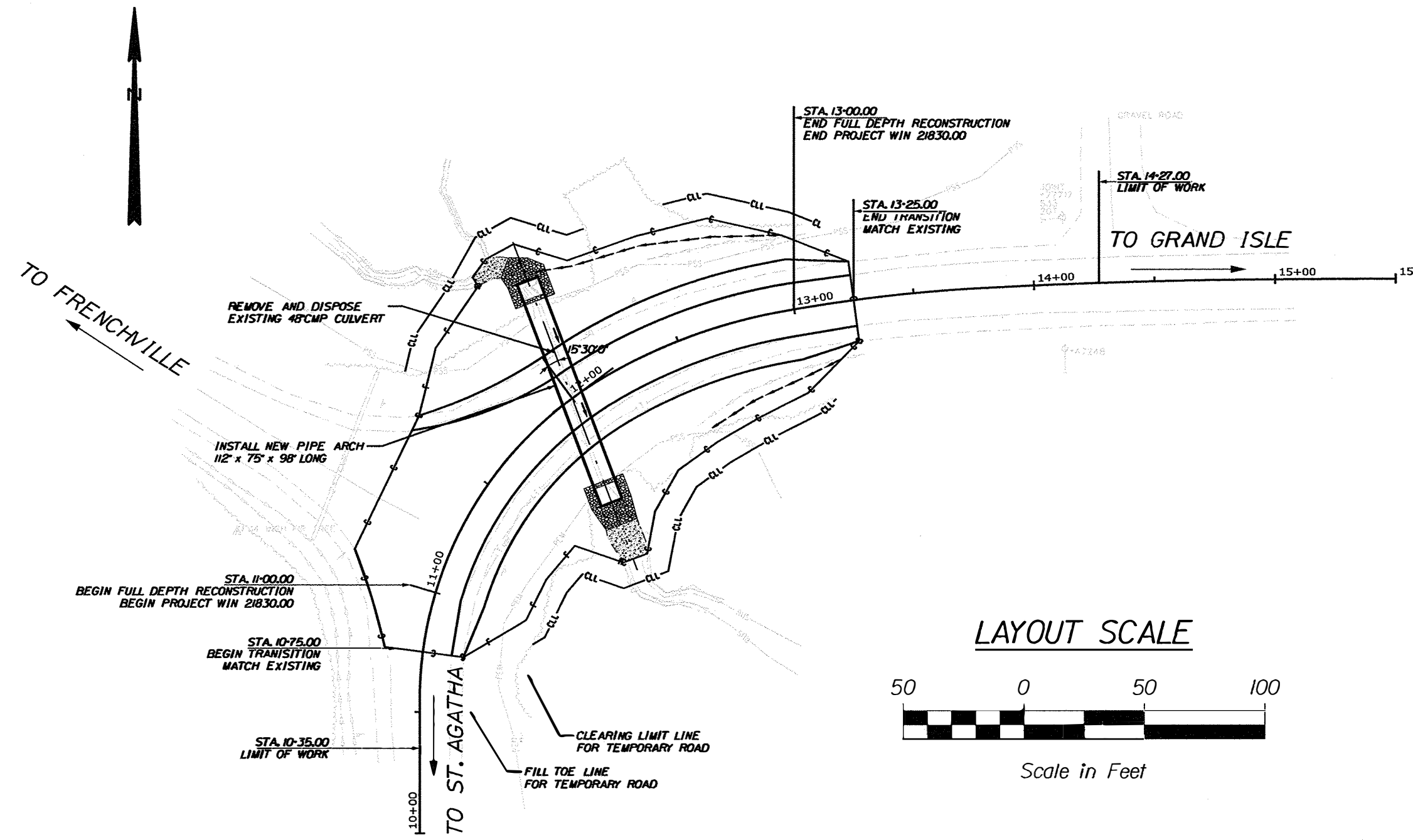
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	<i>[Signature]</i>	11-7-21
COMMISSIONER:		
CHIEF ENGINEER:	<i>[Signature]</i>	11-1-2021



<i>[Signature]</i>	13512	4/13/2021
SIGNATURE	P.E. NUMBER	DATE

PROJECT INFORMATION	HIGHWAY PROGRAM	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
PROGRAM	ROGER SOUCY	CHRIS HELSTROM		
DESIGNER	CHRIS HELSTROM			
CONSULTANT				

WIN 21830.00	STATE PROJECT NO. 21830.00
ST. AGATHA CLEVELAND ROAD	TITLE SHEET
SHEET NUMBER	1
	OF 14

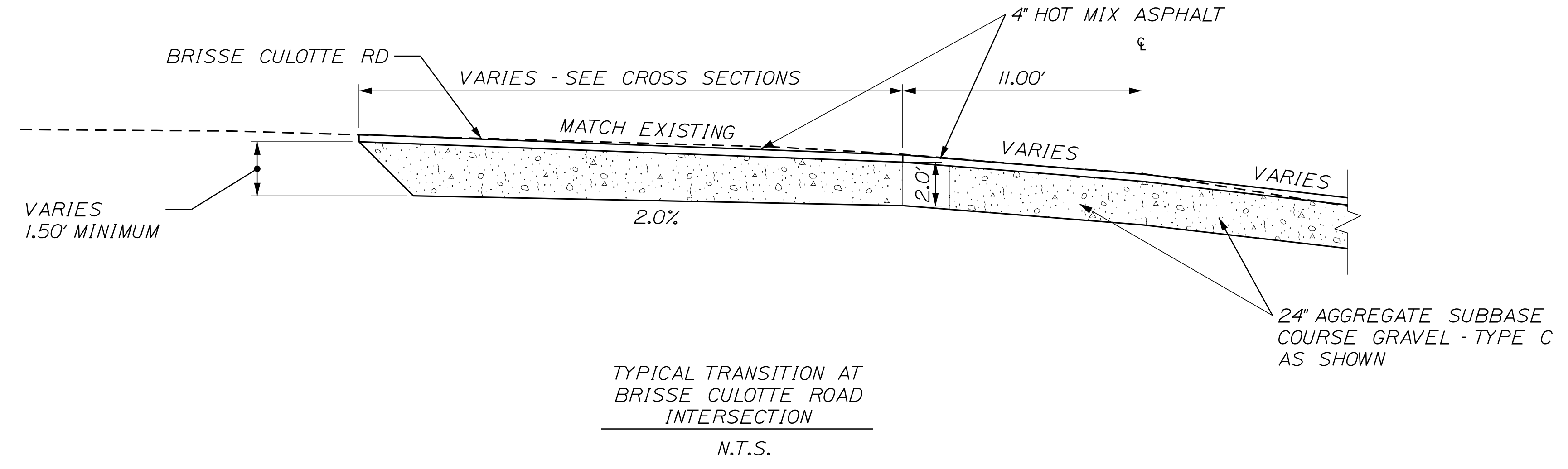
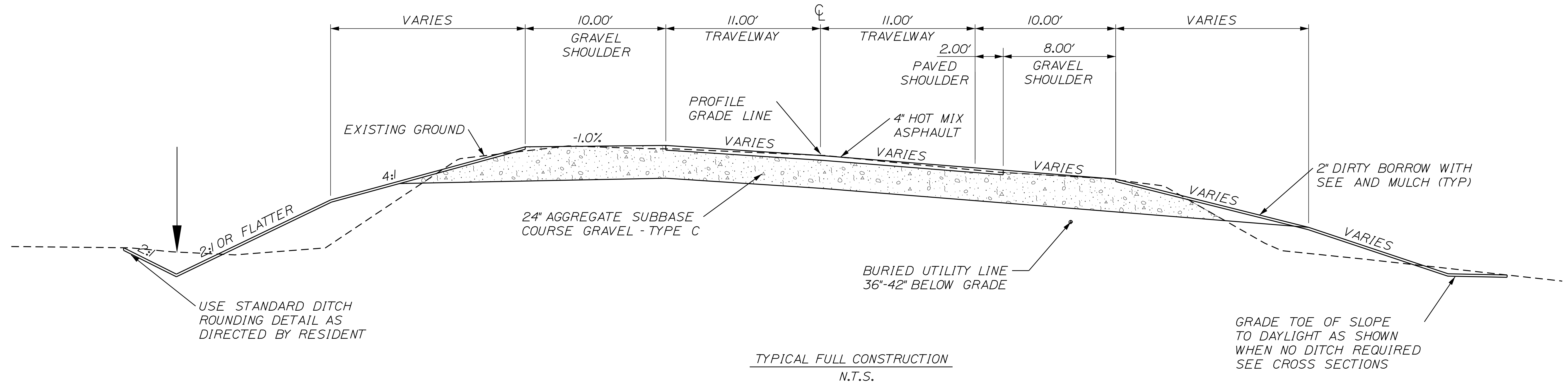


TRAFFIC DATA

Current (2021) AADT	890
Future (2041) AADT	940
DHV - % of AADT	11%
Design Hour Volume	103
% Heavy Trucks (AADT)	14%
% Heavy Trucks (DHV)	4%
Directional Distribution (DHV)	51%
18-kip Equivalent P 2.0	85
18-kip Equivalent P 2.5	81
Design Speed (mph)	45 MPH
Corridor Priority	4

PROJECT LOCATION:	IN THE TOWN OF ST. AGATHA ON CLEVELAND ROAD, LOCATED 0.01 MILES SOUTH OF THE BRISE CULOTTE ROAD AND CLEVELAND ROAD INTERSECTION, EXTENDING 0.04 MILES NORTHEAST
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	LARGE CULVERT REPLACEMENT

Filename: ... \00\HIGHWAY\MSTA\001_Title.dgn
 Division: HIGHWAY
 Username: David Wardwell
 Date: 4/7/2021



NOTES:

1. THE PAVEMENT BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES ROLLOVER SHALL NOT EXCEED 8%.
5. THE STATIONING SHOWN UNDER EACH TYPICAL SECTION IS APPROXIMATE.
6. 2" OF DIRTY BORROW SHALL BE USED FOR ALL DISTURBED SLOPES OTHER THAN LAWN AREAS. 4" OF LOAM SHALL BE USED IN ALL LAWN AREAS.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		21830.00	WIN 21830.00	HIGHWAY PLANS
ST. AGATHA CLEVELAND ROAD		TYPICAL SECTIONS		
SHEET NUMBER		2		
OF 14				

PROJ. MANAGER	ROGER SOUCY	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	HELSTROM	WARDWELL	04-2021			
CHECKED-REVIEWED	HELSTROM	SOUCY	04-2021			
DESIGN-DETAILED						
REVISIONS						
REVISIONS						
REVISIONS						
REVISIONS						
FIELD CHANGES						

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203.20	COMMON EXCAVATION	760	CY
203.25	GRANULAR BORROW	160	CY
203.33	SPECIAL FILL	70	CY
203.55	CULVERT BEDDING STONE	90	CY
206.061	STRUCTURAL EARTH EXCAVATION - DRAINAGE & MINOR STRUCTURES	45	CY
304.16	AGGREGATE BASE COURSE - TYPE C	1000	CY
403.208	HOT MIX ASPHALT 12.5MM HMA SURFACE	85	T
403.213	HOT MIX ASPHALT 12.5MM HMA BASE	130	T
409.15	BITUMINOUS TACK COAT APPLIED	30	G
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
603.4076	1/2" S 75'R POLYMER COATED PIPE ARCH	98	LF
610.08	PLAIN RIPRAP	30	CY
610.21	ROCK BANK LINES	20	CY
610.212	ROCK BAND (FEATURE ROCK)	2	CY
615.10	DIRTY BORROW	60	CY
618.14	SEEDING METHOD NUMBER 2	9	UN
619.12	MULCH	9	UN
620.54	STABILIZATION / REINFORCEMENT GEOTEXTILE	350	SY
620.58	EROSION CONTROL GEOTEXTILE	60	SY
620.65	REINFORCEMENT GEOGRID	135	SY
627.733	4" WHITE OR YELLOW PAINTED PAVE MRK LINE	750	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.10	AIR COMPRESSOR (INC OPERATOR)	10	HR
631.11	AIR TOOL (INC OPERATOR)	10	HR
631.12	ALL PURPOSE EXCAVATION (INC OPERATOR)	10	HR
631.172	TRUCK-LARGE (INC OPERATOR)	10	HR
631.18	CHAINSAW RENTAL (INC OPERATOR)	10	HR
631.212	SMALL PAVEMENT GRINDER (INC OPERATOR)	10	HR
631.32	CULVERT CLEANER (INC OPERATOR)	10	HR
639.20	FIELD OFFICE - TYPE C	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	600	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	35	CD
652.38	FLAGGER	40	HR
652.61	STAGED CONSTRUCTION AND TRAFFIC CONTROL PLAN	1	LS
656.75	TEMP SOIL EROSION & WATER POLLUTION CTRL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL NOTES

- CLEARING LIMITS SHALL BE 10 FEET BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
- ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.
- THE CLEARING AND SELECTIVE CLEARING AND THINNING LINES SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. THE ACTUAL LINES FOR CLEARING AND THINNING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE RESIDENT.
- GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT.
- ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR AS DIRECTED BY THE RESIDENT.
- THE CONTRACTOR SHALL PLAN AND CONDUCT WORK SO THAT UPON FINAL COMPLETION OF THE PROEJCT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT.
- ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.
- REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.
- GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1 FOOT ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATIONS ITEM 703.19, GRANULAR BORROW.
- EXISTING INSLOPES IN PROPOSED FILL AREAS SHALL BE BENCHED BY EXCAVATING STEPS OF SUFFICIENT WIDTH TO PERMIT PLACING AND COMPACTING THE FILL MATERIAL ALONG WITH THE MATERIAL REMOVED.
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
- DIRTY BORROW HAS BEEN ESTIMATED FOR ALL DISTURBED SLOPE AREAS OTHER THAN LAWN AREAS. ACTUAL PLACEMENT OF THE DIRTY BORROW SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
- DIRTY BORROW SHALL BE PLACED TO A NOMINAL DEPTH OF 2 INCHES UNLESS OTHERWISE NOTED OR DIRECTED.
- 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.
- ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL DESIGN FOR THE REPLCEMENT OF: CROSS CULVERT *XC-182487, SOILS REPORT 2021-12, MARCH 31, 2021 CAN BE ACCESSED AT THE MAINEDOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).
- GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. 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.
- AREAS ON THE PROJECT REQUIRING FILL WILL COME FROM SUITABLE SITES SUCH AS EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
- ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.
- NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
- "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.
- FINAL STRIPING FOR THE PROEJCT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING LAYOUT IN THE CONTRACT DOCUMENTS OR AS PROVIDED BY THE DEPARTMENT. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

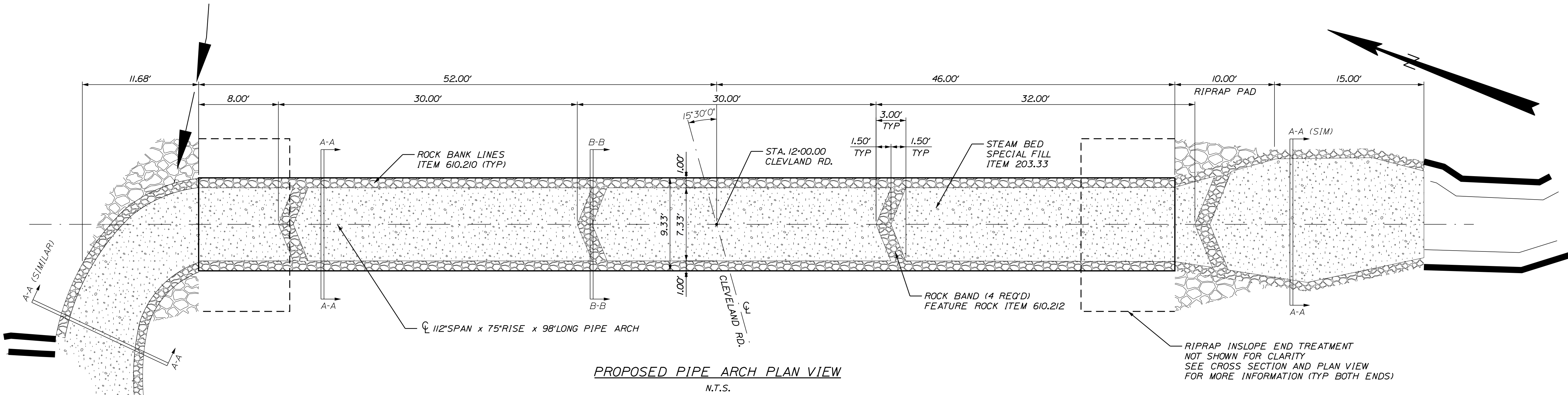
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		21830.00		WIN		21830.00		HIGHWAY PLANS	
ST. AGATHA CLEVELAND ROAD		ESTIMATED QUANTITIES & GENERAL NOTES		DATE 04-2021		SIGNATURE		P.E. NUMBER		DATE	
SHEET NUMBER		3		PROJ. MANAGER ROGER SOUCY		BY WARDWELL SOUCY		CHECKED-REVIEWED HELSFROM HELSFROM		DESIGNS DET AILED DESIGNS DET AILED	
OF 14				DESIGNS DET AILED		REVISIONS 1		REVISIONS 2		REVISIONS 3	
				REVISIONS 4		FIELD CHANGES					

Date: 4/15/2021

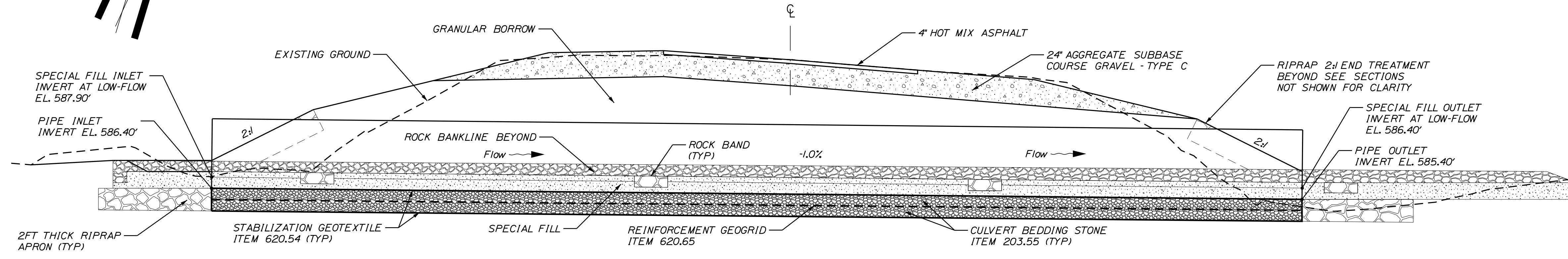
Username: David.Wardwell

Division: HIGHWAY

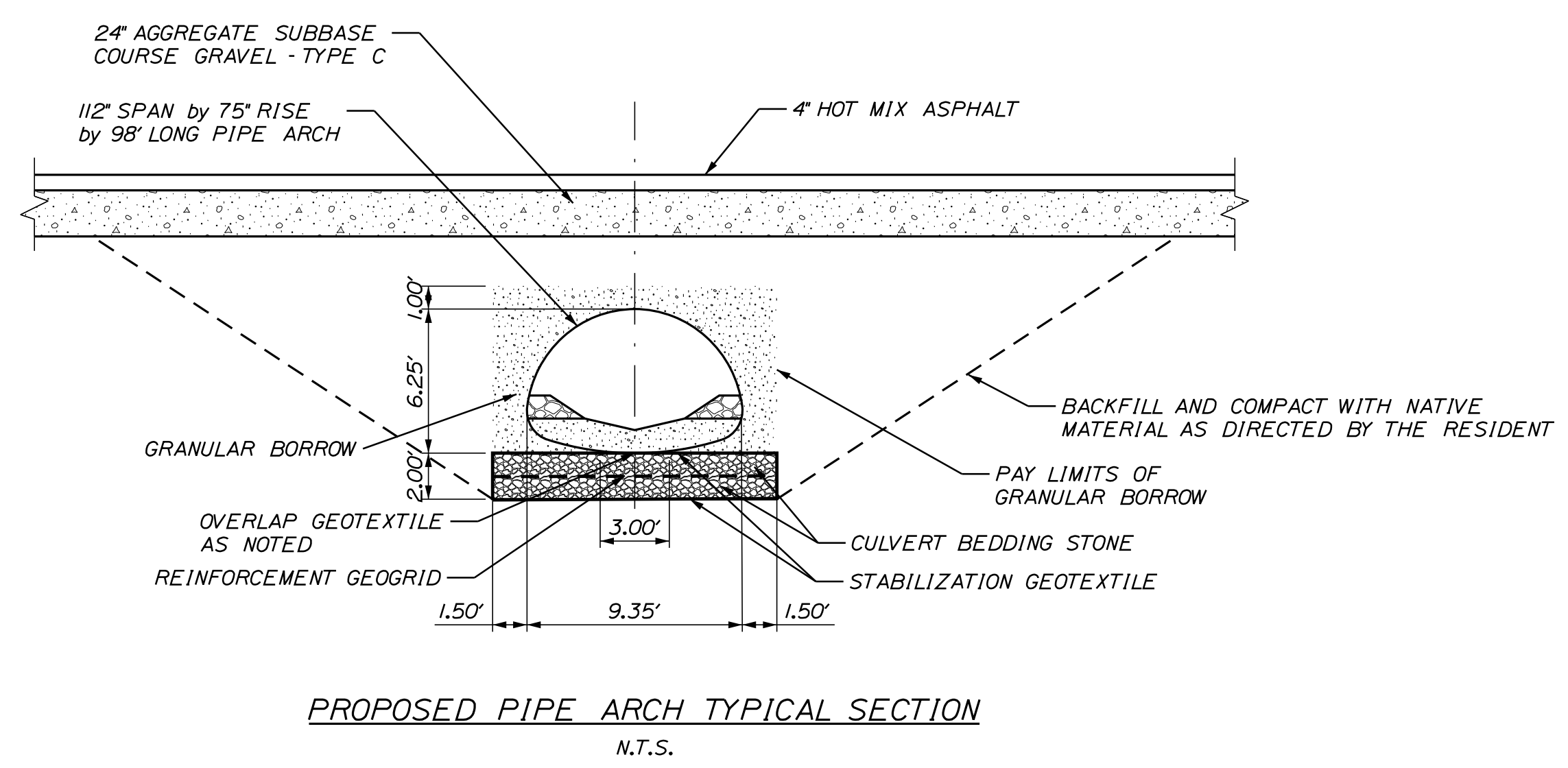
Filename: ... \MSTA\004_SpecialDetail.dgn



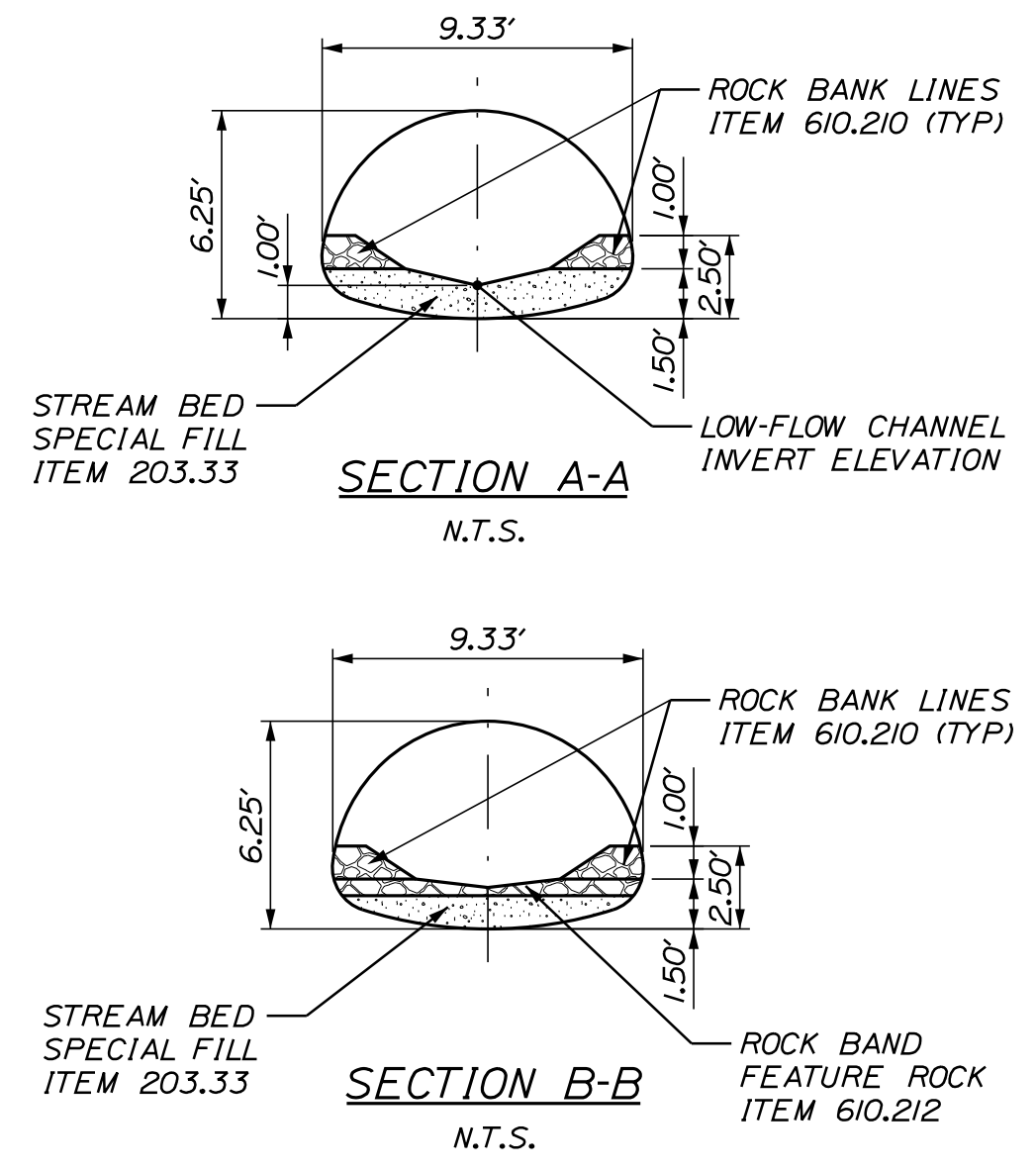
PROPOSED PIPE ARCH PLAN VIEW
N.T.S.



PROPOSED PIPE ARCH TRANSVERSE SECTION
(SKEWED ALONG CENTERLINE OF PIPE ARCH) N.T.S.



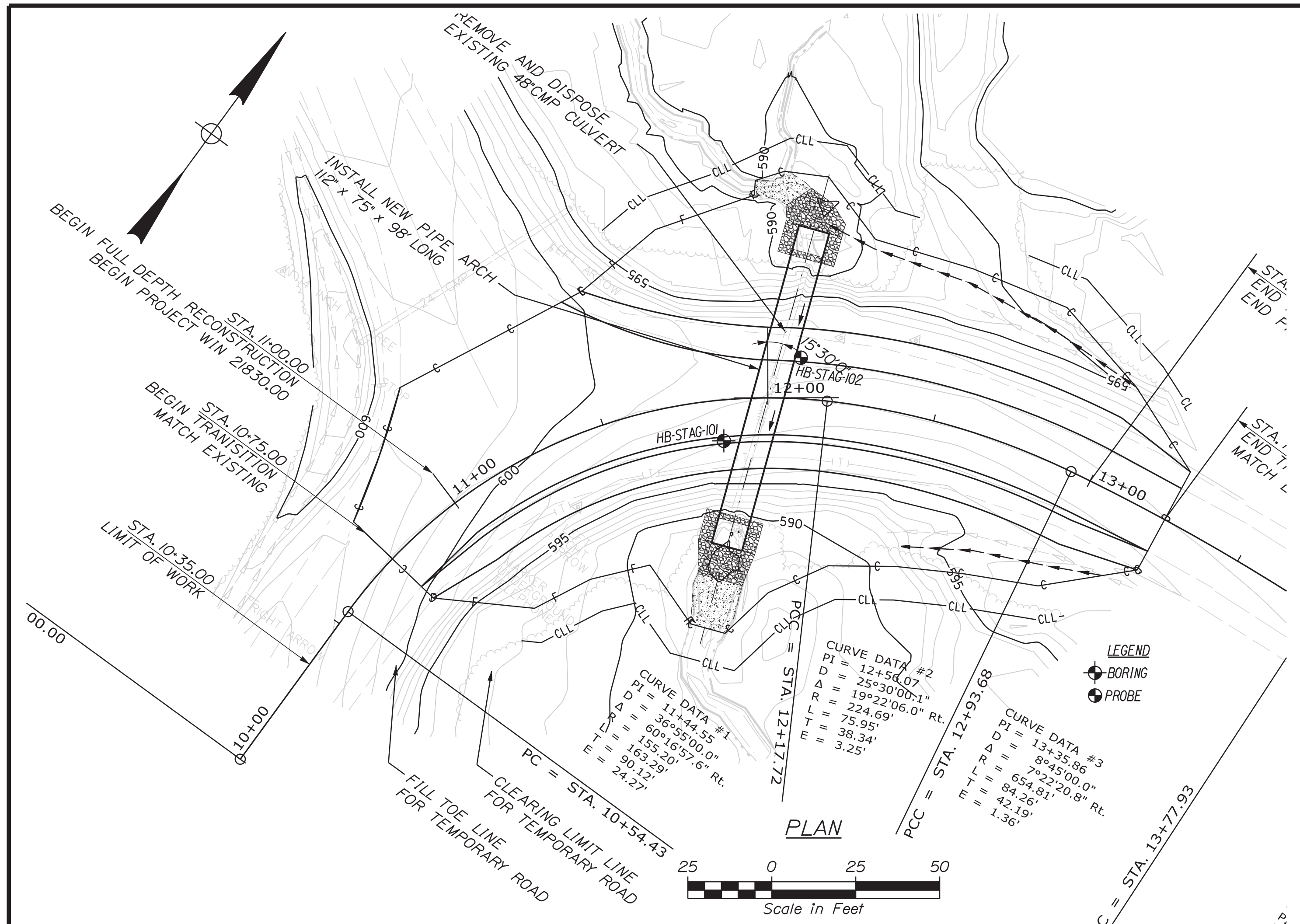
PROPOSED PIPE ARCH TYPICAL SECTION
N.T.S.



PIPE ARCH NOTES

1. THE PIPE ARCH UNIT SHALL BE DESIGNED TO CARRY CONSTRUCTION LOADINGS WITH A MINIMUM FILL COVER OF 18\"/>
- 2. THE PIPE ARCH CULVERT SHALL BE BEDDED ON 2FT THK LAYER OF CULVERT BEDDING STONE WITH A LAYER OF REINFORCEMENT GEOGRID AT THE CENTER. THE CULVERT BEDDING STONE SHALL BE WRAPPED IN STABILIZATION GEOTEXTILE. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.
- 3. STABILIZATION GEOTEXTILE SHALL BE OVERLAPPED A MINIMUM OF 3FT.
- 4. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF THE STRUCTURE TO ALLOW WATER TO BE PUMPED AND REMOVED DURING CONSTRUCTION OF THE CULVERT.
- 5. RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET. SEE PLAN FOR LOCATIONS.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
21830.00		WIN	
21830.00		HIGHWAY PLANS	
PROJ. MANAGER	ROGER SOUCY	BY	WARDWELL
DESIGN-DETAILED	HELSFROM	CHECKED-REVIEWED	HELSFROM
DESIGN-DETAILED	SOUCY	DATE	04-2021
DESIGN-DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
ST. AGATHA CLEVELAND ROAD		SPECIAL DETAILS PIPE ARCH	
SHEET NUMBER		4	
		OF 14	



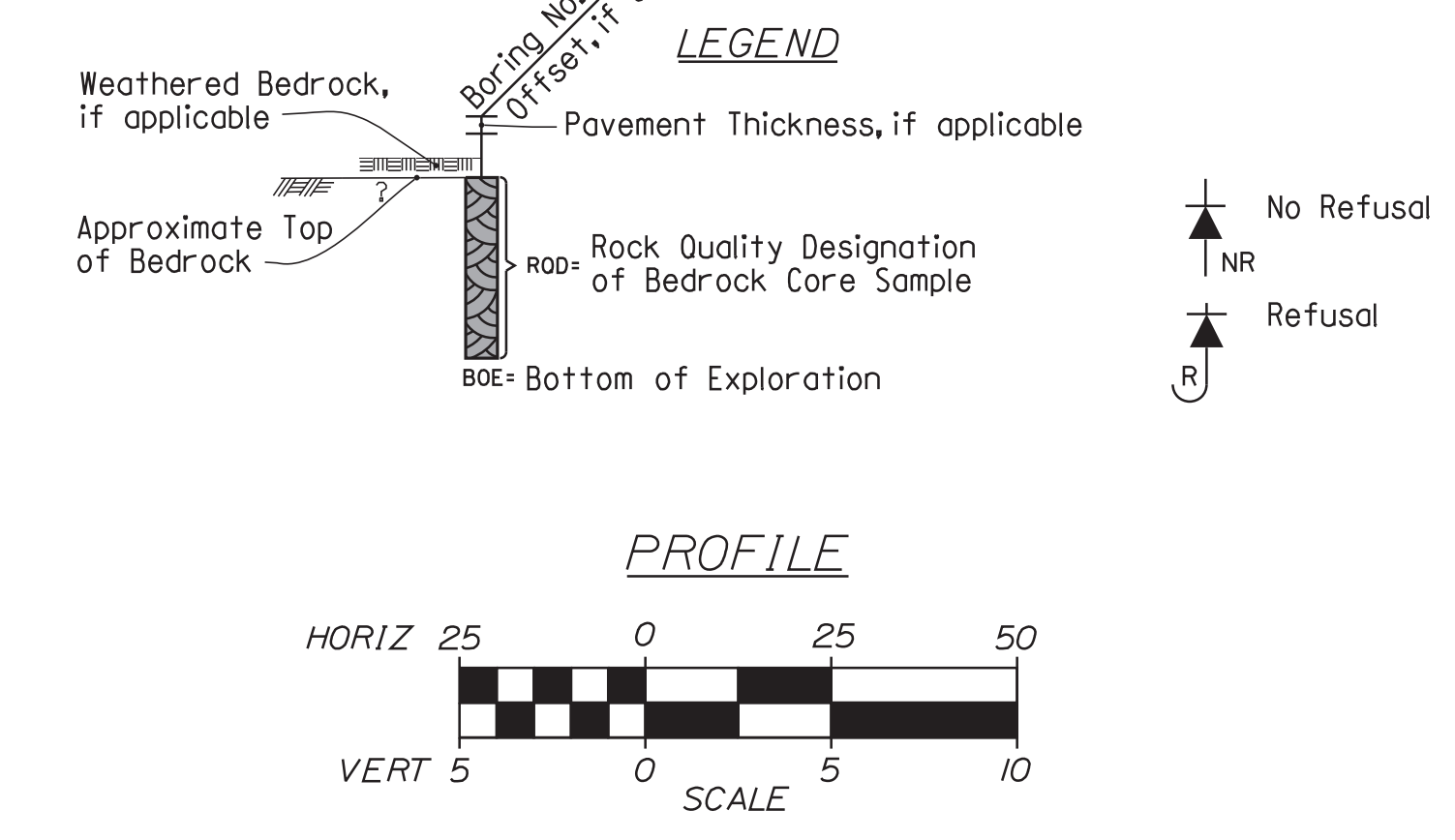
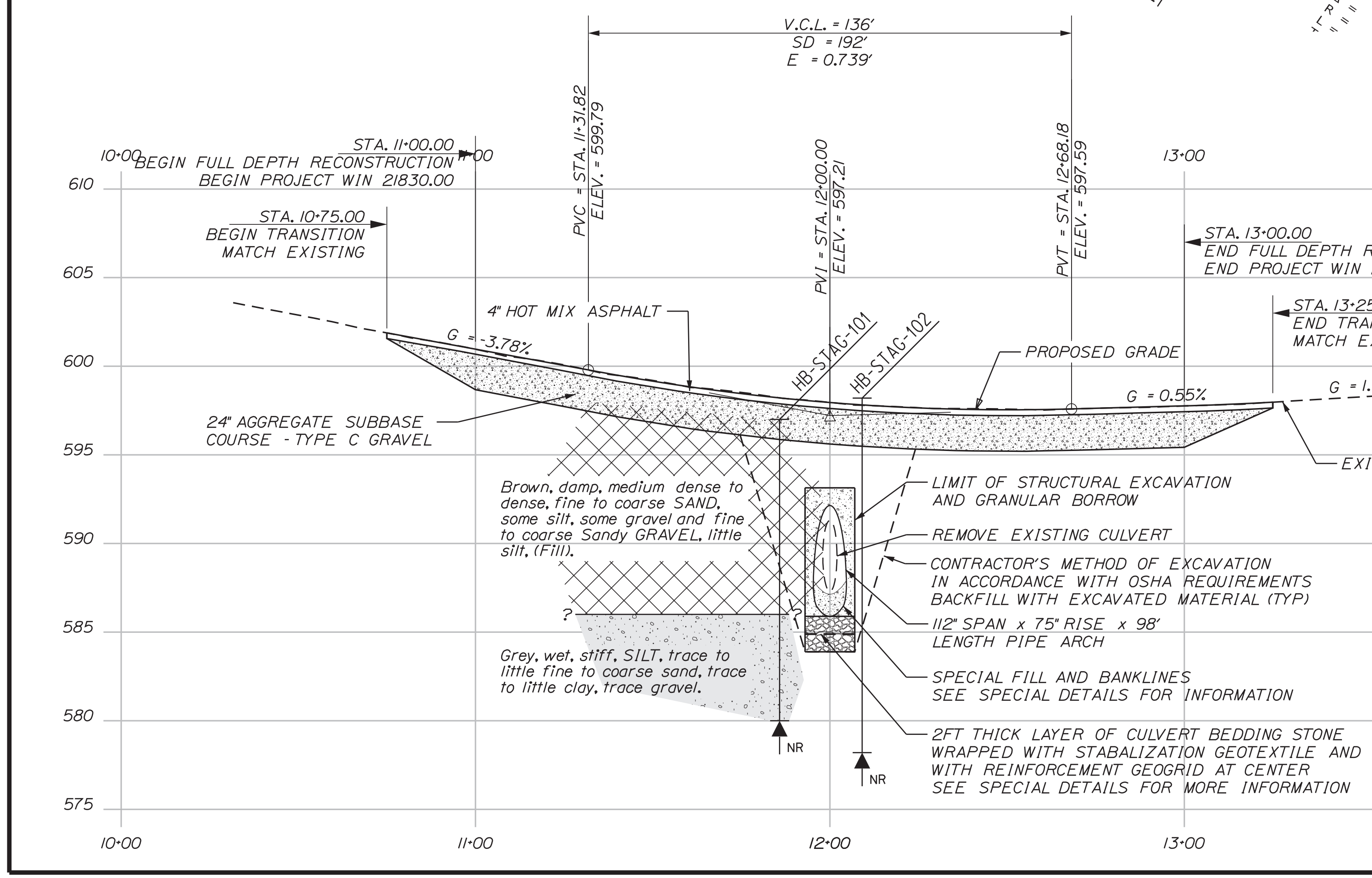
Maine Department of Transportation		Project: Large Culvert Replacement on the Cleveland Road (1309), Locations: St. Agatha, Maine		Boring No.: HB-STAG-101	
Soil/Book Exploration Log		US CUSTOMARY UNITS		WIN: 21830.00	
Driller:	Melindor	Elevation (ft.):	597.0	Auger (ft./min):	5" Dia.
Operator:	Doggett/Burpee	Date:	NAVD88	Sampler:	Standard Split Spoon
Logged By:	B. W. Iyer	Rig Type:	CME 45C	Number Wt./Falls:	140W/30"
Date Start/Finish:	9/13/2016 10:00-12:30	Drilling Method:	Solid Stem Auger	Core Barrels:	N/A
Boring Location:	11+85.8, 12.1 ft Rt.	Casing (ft./min):	N/A	Water Level:	None Observed
Number Efficiency Factor:	0.343	Sampler Type:	Automatic	Hydraulic:	Rose & Corbett

Maine Department of Transportation		Project: Large Culvert Replacement on the Cleveland Road (1309), Locations: St. Agatha, Maine		Boring No.: HB-STAG-102	
Soil/Book Exploration Log		US CUSTOMARY UNITS		WIN: 21830.00	
Driller:	Melindor	Elevation (ft.):	598.2	Auger (ft./min):	5" Dia.
Operator:	Doggett/Burpee	Date:	NAVD88	Sampler:	N/A
Logged By:	B. W. Iyer	Rig Type:	CME 45C	Number Wt./Falls:	N/A
Date Start/Finish:	9/13/2016 10:00-12:30	Drilling Method:	Solid Stem Auger	Core Barrels:	N/A
Boring Location:	12+09.1, 12.2 ft Lt.	Casing (ft./min):	N/A	Water Level:	None Observed
Number Efficiency Factor:	0.343	Sampler Type:	Automatic	Hydraulic:	Rose & Corbett

Sample Information		Visual Description and Remarks		Laboratory Testing Results	
Depth (ft.)	Sample No.	Depth (ft.)	Visual Description	Soil Class	Notes
10	24/17	2.00	Brown, damp, dense, fine to coarse SAND, some silt, some gravel, (fill).	GW30423	A-2, CL, MC15, 1%
5	24/19	5.00	Brown, damp, medium dense, fine to coarse SANDY GRAVEL, little silt, (fill).	GW30424	A-1, CL, MC15, 1%
10	24/20	10.00	Grey, wet, stiff, SILT, little sand, little clay, trace gravel.	GW30425	A-4, CL, MC15, 5%
15	24/15	15.00	Grey, wet, stiff, SILT, trace clay, trace sand, trace gravel.	GW30426	A-4, CL, MC15, 5%
20			Bottom of Exploration at 17.0 feet below ground surface. NO REFUSAL.		

Maine Department of Transportation		Project: Large Culvert Replacement on the Cleveland Road (1309), Locations: St. Agatha, Maine		Boring No.: HB-STAG-102	
Soil/Book Exploration Log		US CUSTOMARY UNITS		WIN: 21830.00	
Driller:	Melindor	Elevation (ft.):	598.2	Auger (ft./min):	5" Dia.
Operator:	Doggett/Burpee	Date:	NAVD88	Sampler:	N/A
Logged By:	B. W. Iyer	Rig Type:	CME 45C	Number Wt./Falls:	N/A
Date Start/Finish:	9/13/2016 10:00-12:30	Drilling Method:	Solid Stem Auger	Core Barrels:	N/A
Boring Location:	12+09.1, 12.2 ft Lt.	Casing (ft./min):	N/A	Water Level:	None Observed
Number Efficiency Factor:	0.343	Sampler Type:	Automatic	Hydraulic:	Rose & Corbett

Sample Information		Visual Description and Remarks		Laboratory Testing Results	
Depth (ft.)	Sample No.	Depth (ft.)	Visual Description	Soil Class	Notes
4			No soil samples were taken in Probe. Soils observed as auger cuttings were similar to those sampled in HB-STAG-101.		
5					
10					
15					
20					
20			Bottom of Exploration at 20.0 feet below ground surface. NO REFUSAL.		



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.

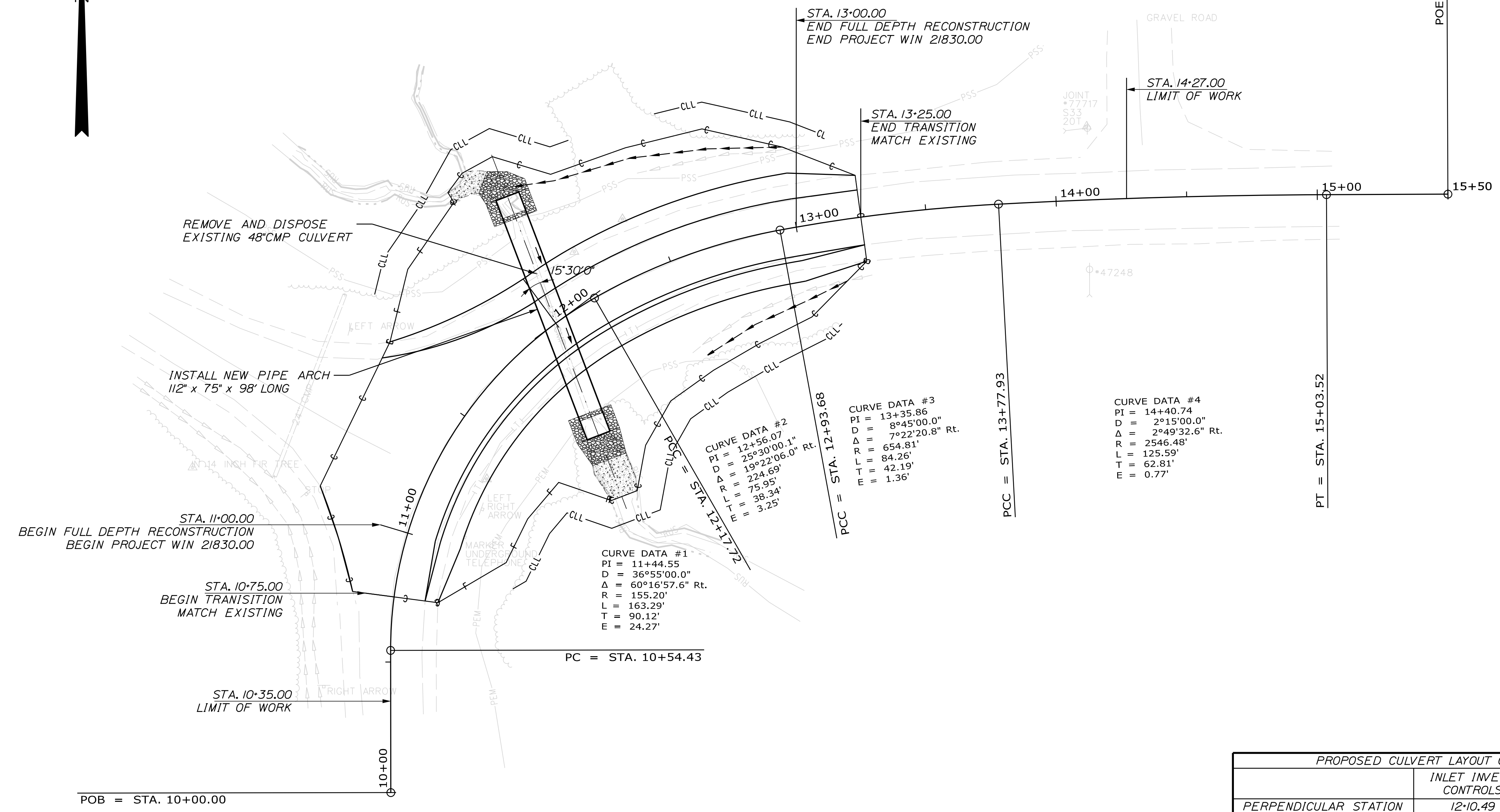
STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 21830.00
 WIN
 21830.00
 HIGHWAY PLANS

ST AGATHA
 CLEVELAND ROAD
 BORING LOCATION PLAN &
 INTERPRETIVE SUBSURFACE PROFILE
 WITH BORING LOGS

PROJ. MANAGER: ROGER SOUCY
 CHECKED-REVIEWED: T. WHITE
 DESIGNED-DRAWN: C. RUSSELL
 DESIGNS DETAILED: T. WHITE
 REVISIONS: 1, 2, 3, 4

SIGNATURE: Coby A. Russell
 DATE: APR 2021
 P.E. NUMBER: 15866
 DATE: 04/15/2021

SHEET NUMBER
 5
 OF 14



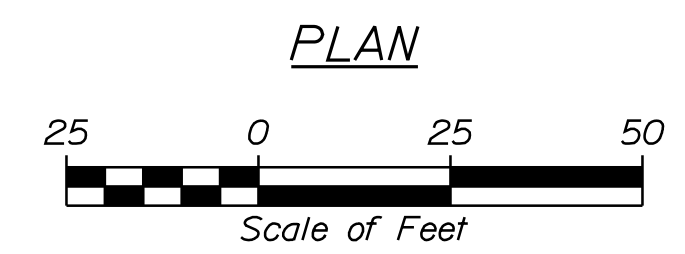
CURVE DATA #1
 PI = 11+44.55
 D = 36°55'00.0"
 Δ = 60°16'57.6" Rt.
 R = 155.20'
 L = 163.29'
 T = 90.12'
 E = 24.27'

CURVE DATA #2
 PI = 12+56.07
 D = 25°30'00.1"
 Δ = 19°22'06.0" Rt.
 R = 75.95'
 L = 38.34'
 T = 3.25'

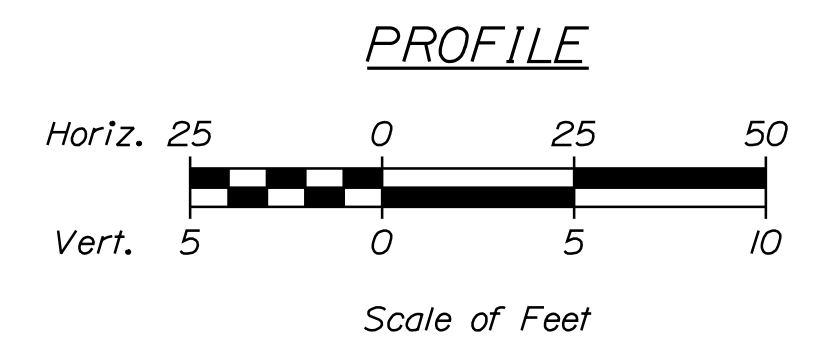
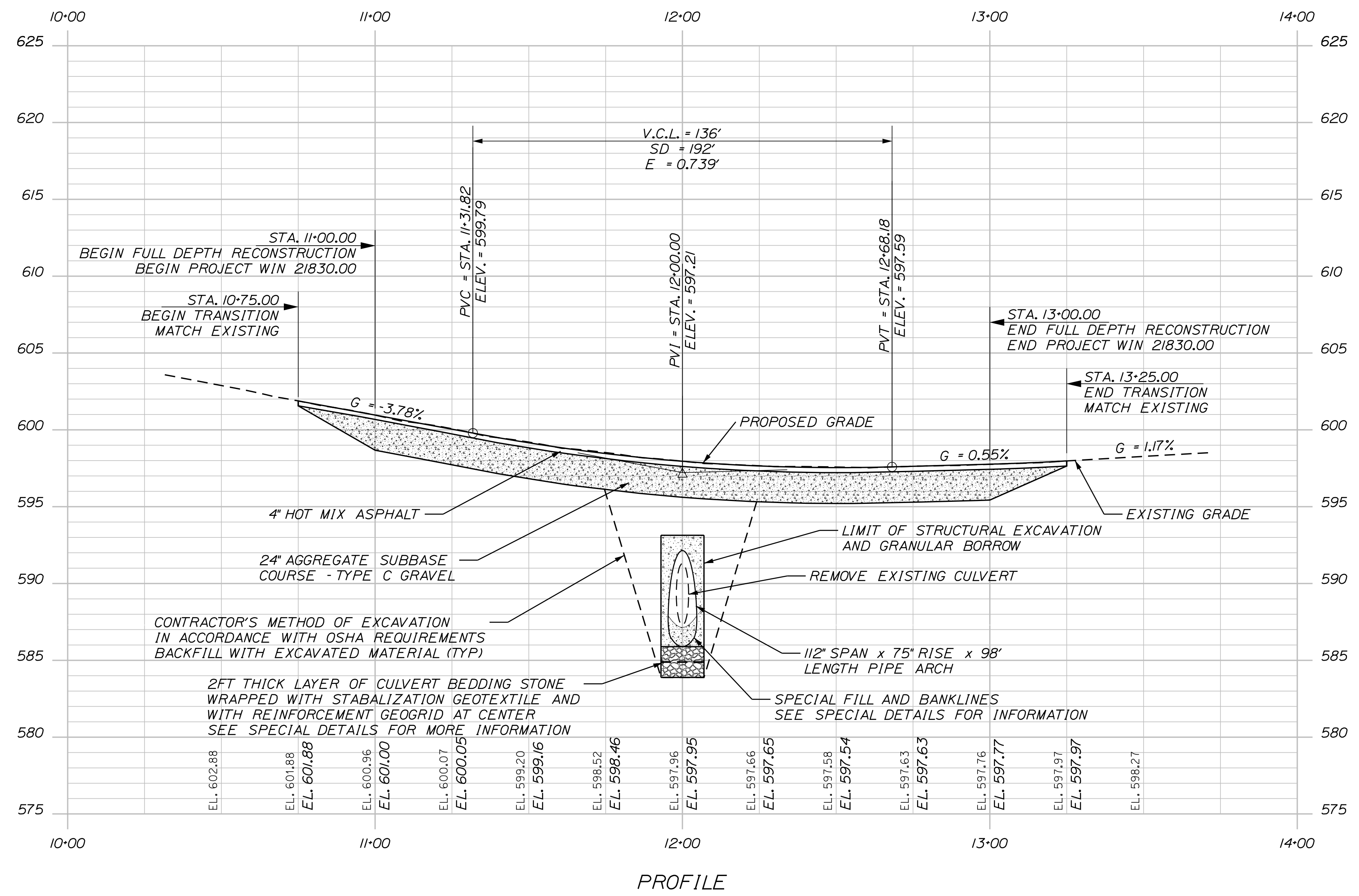
CURVE DATA #3
 PI = 13+35.86
 D = 8°45'00.0"
 Δ = 7°22'20.8" Rt.
 R = 654.81'
 L = 84.26'
 T = 42.19'
 E = 1.36'

CURVE DATA #4
 PI = 14+40.74
 D = 2°15'00.0"
 Δ = 2°49'32.6" Rt.
 R = 2546.48'
 L = 125.59'
 T = 62.81'
 E = 0.77'

PROPOSED CULVERT LAYOUT CONTROLS		
	INLET INVERT CONTROLS	OUTLET INVERT CONTROLS
PERPENDICULAR STATION	12+10.49	11+82.86'
PERPENDICULAR OFFSET	50.56' LT	43.65' RT
INVERT ELEVATION	ELEV. 586.40'	ELEV. 585.40'



ST. AGATHA CLEVELAND ROAD PLANS		STATE OF MAINE DEPARTMENT OF TRANSPORTATION 21830.00 WIN 21830.00 HIGHWAY PLANS
PROJ. MANAGER: ROGER SOUCY DESIGN-DETAILED: HELSTROM CHECKED-REVIEWED: HELSTROM DESIGN-DETAILED: - REVISIONS 1: - REVISIONS 2: - REVISIONS 3: - REVISIONS 4: - FIELD CHANGES: -	DATE: 04-2021 BY: WARDWELL SOUCY SIGNATURE: _____ P.E. NUMBER: _____ DATE: _____	
SHEET NUMBER 6		OF 14



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
	21830.00
	WIN
	21830.00
	HIGHWAY PLANS

	SIGNATURE
	P.E. NUMBER
	DATE

	DATE
	BY
	ROGER SOUCY
	HELS FROM
	HELS FROM
	DESIGNS DETAILED
	DESIGNS DETAILED
	REVISIONS 1
	REVISIONS 2
	REVISIONS 3
	REVISIONS 4
	FIELD CHANGES

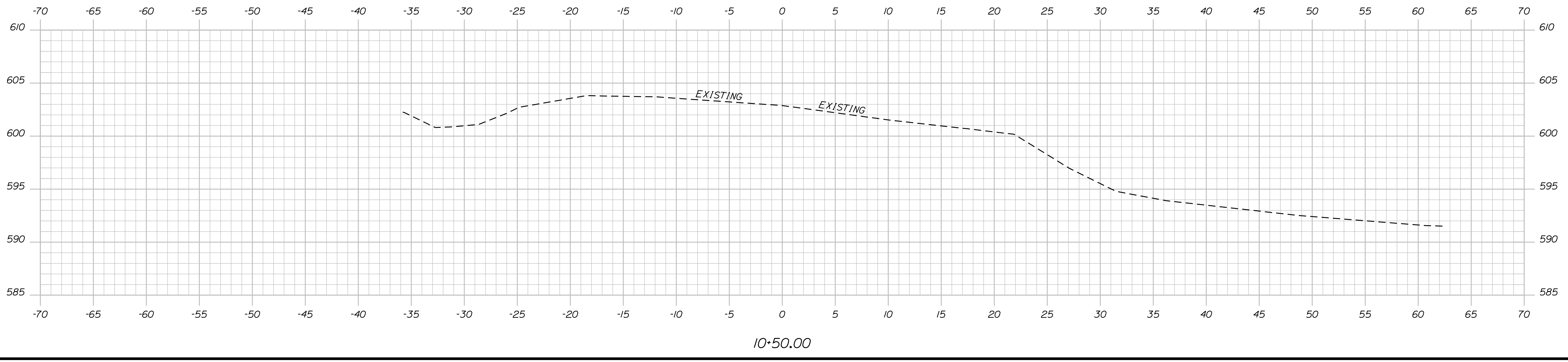
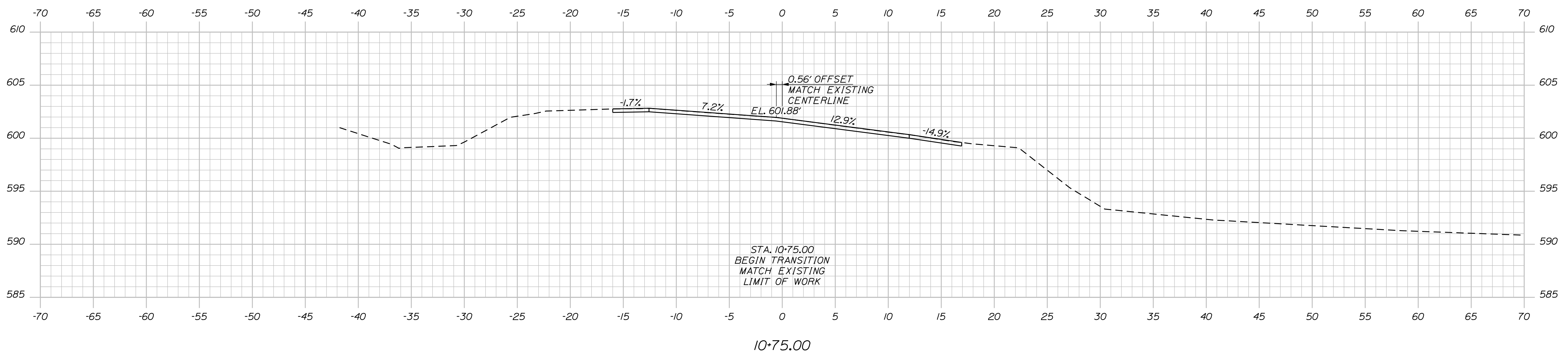
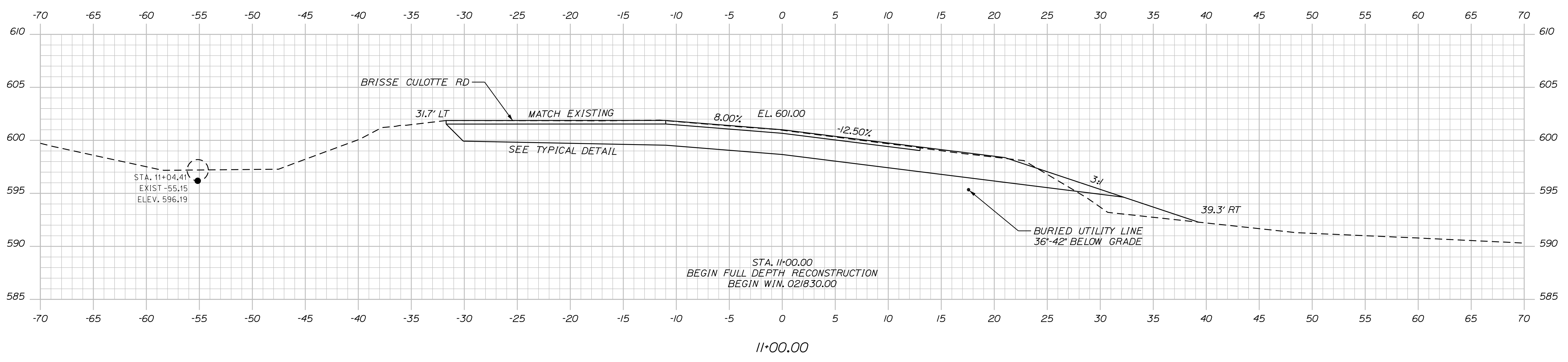
ST. AGATHA CLEVELAND ROAD	PROFILE
SHEET NUMBER	
7	
OF 14	

Date: 4/15/2021

Username: David.Wardwell

Division: HIGHWAY

Filename: ... \MSTAN008_XSECT_10+50_001.dgn



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 21830.00
 WIN
 21830.00
 HIGHWAY PLANS

SIGNATURE
 P.E. NUMBER
 DATE

PROJ. MANAGER	ROGER SOUCY	BY	WARDWELL	DATE	04-2021
DESIGN DETAILED	HELSTROM	CHECKED-REVIEWED	HELSTROM	DATE	04-2021
DESIGN DETAILED	-	DESIGN DETAILED	-	DATE	-
REVISIONS 1	-	REVISIONS 2	-	DATE	-
REVISIONS 3	-	REVISIONS 4	-	DATE	-
FIELD CHANGES	-				

ST. AGATHA
 CLEVELAND ROAD
 CROSS SECTIONS

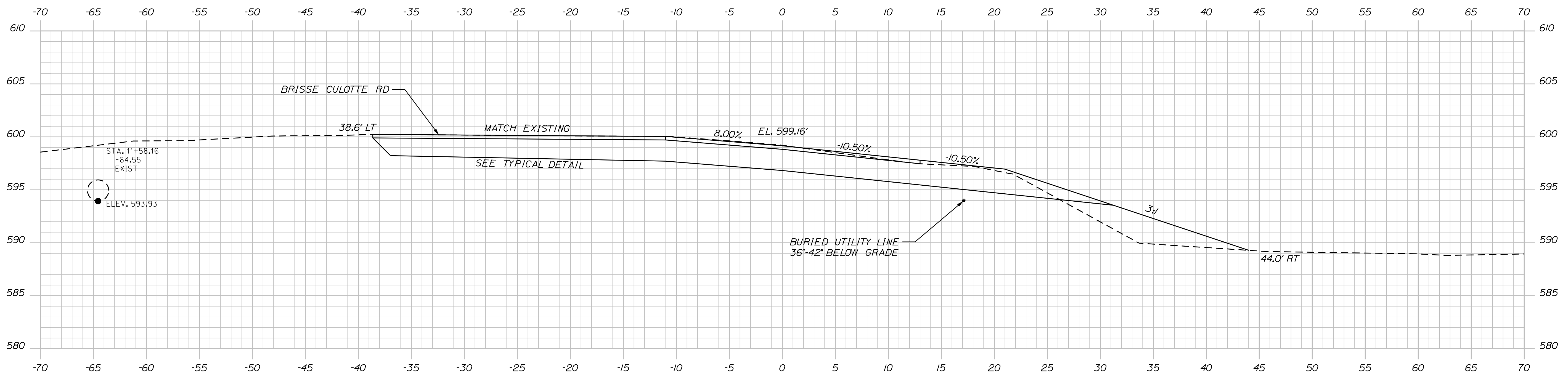
SHEET NUMBER
 8
 OF 14

Date: 4/15/2021

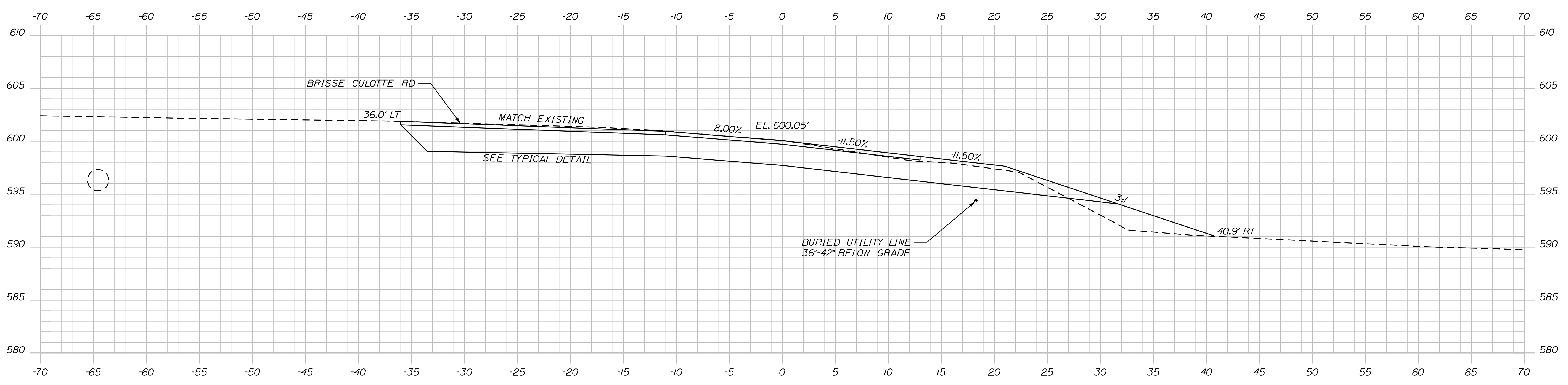
Username: David.Wardwell

Division: HIGHWAY

Filename: ... \MSTAD09_XSECT_11+25_002.dgn



11+50.00



11+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
21830.00
WIN
21830.00
HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	ROGER SOUCY	BY	DATE
DESIGN DETAILED	HELSFROM	WARDWELL	04-2021
CHECKED-REVIEWED	HELSFROM	SOUCY	04-2021
DESIGNS DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

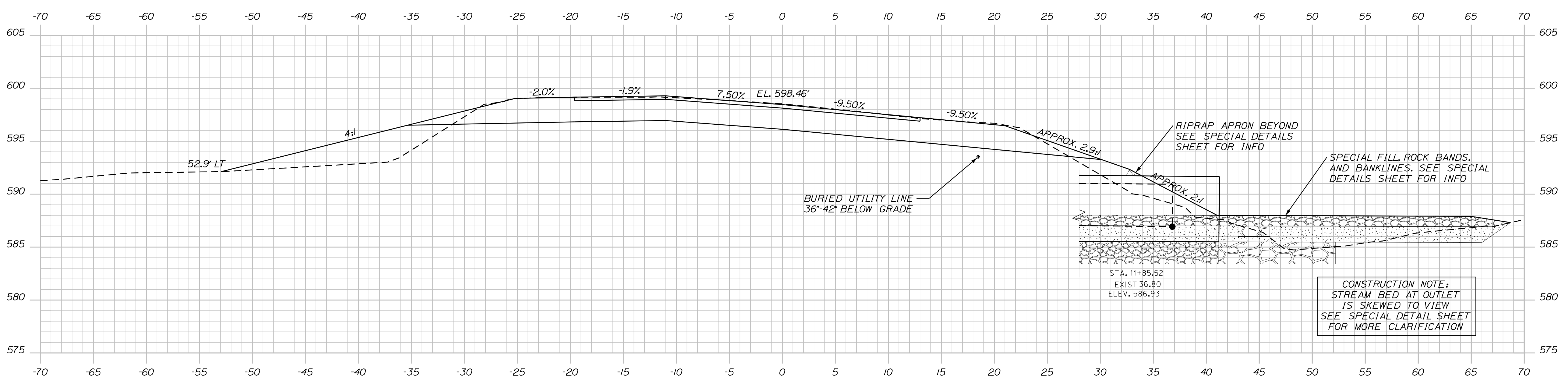
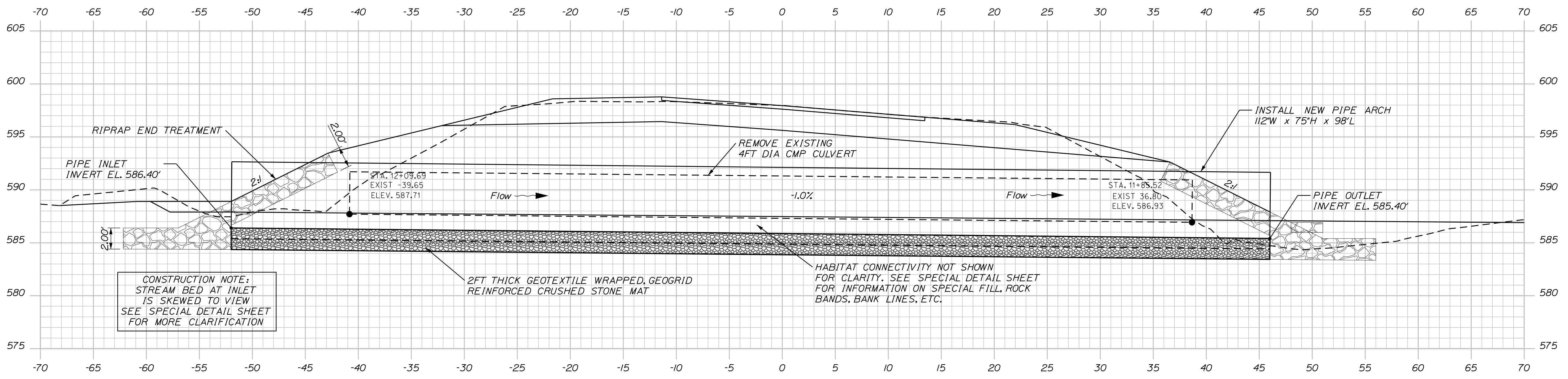
ST. AGATHA
CLEVELAND ROAD
CROSS SECTIONS

SHEET NUMBER
9
OF 14

Username: David.Wardwell Date: 4/15/2021

Division: HIGHWAY

Filename: ... \MSTAN010_XSECT_11+75_003.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
21830.00
WIN
21830.00
HIGHWAY PLANS

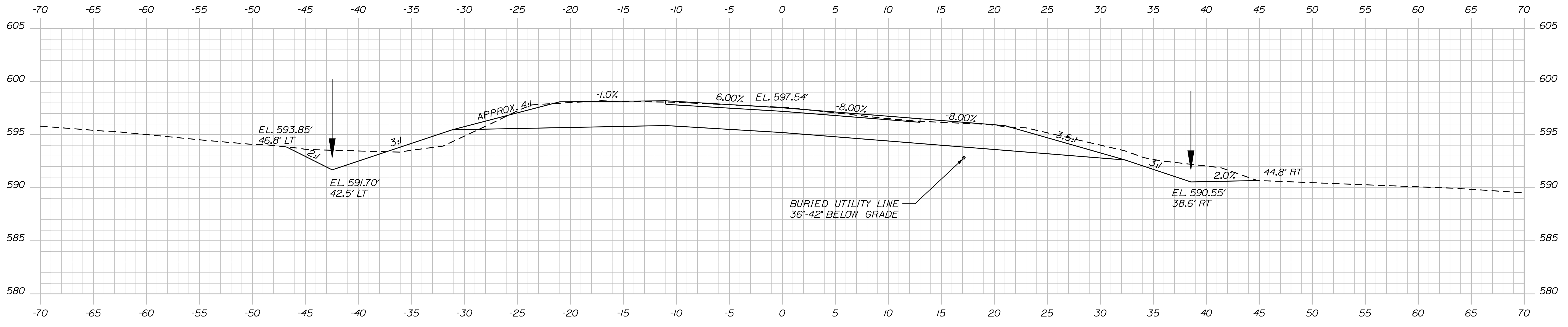
DATE: 04-2021
SIGNATURE:
P.E. NUMBER:
DATE:

PROJ. MANAGER	ROGER SOUCY	BY	WARDWELL	DATE	04-2021
DESIGN-DETAILED	HELSFROM	CHECKED-REVIEWED	HELSFROM	DESIGN-DETAILED	
DESIGN-DETAILED		DESIGN-DETAILED		REVISIONS 1	
		REVISIONS 2		REVISIONS 3	
		REVISIONS 4		FIELD CHANGES	

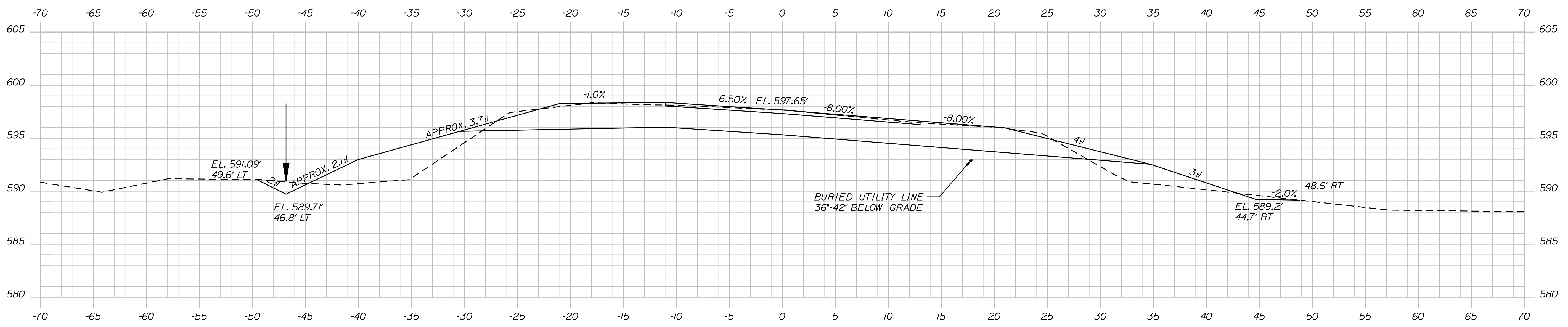
ST. AGATHA
CLEVELAND ROAD
CROSS SECTIONS

SHEET NUMBER
10
OF 14

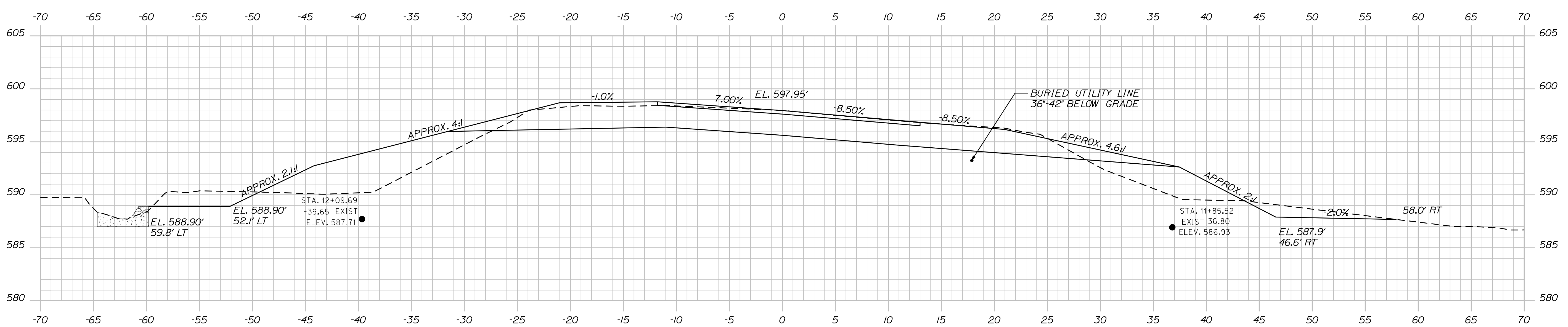
Filename: ... \MSTAO11_XSECT_12+00_004.dgn Division: HIGHWAY Username: David.Wardwell Date: 4/15/2021



12+50.00



12+25.00



12+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
21830.00
WIN
21830.00
HIGHWAY PLANS

PROJ. MANAGER	ROGER SOUCY	BY	WARDWELL	DATE	04-2021
DESIGN-DETAILED	HELSFROM	CHECKED-REVIEWED	HELSFROM	SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

PROJ. MANAGER	ROGER SOUCY	BY	WARDWELL	DATE	04-2021
DESIGN-DETAILED	HELSFROM	CHECKED-REVIEWED	HELSFROM	SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

ST. AGATHA
CLEVELAND ROAD
CROSS SECTIONS

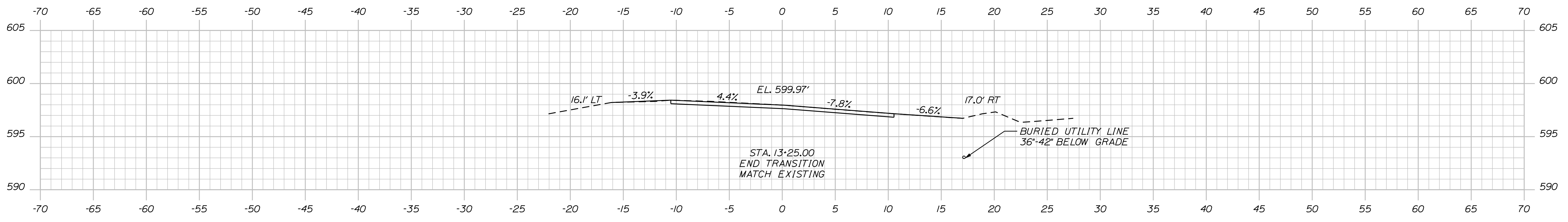
SHEET NUMBER
11
OF 14

Date: 4/15/2021

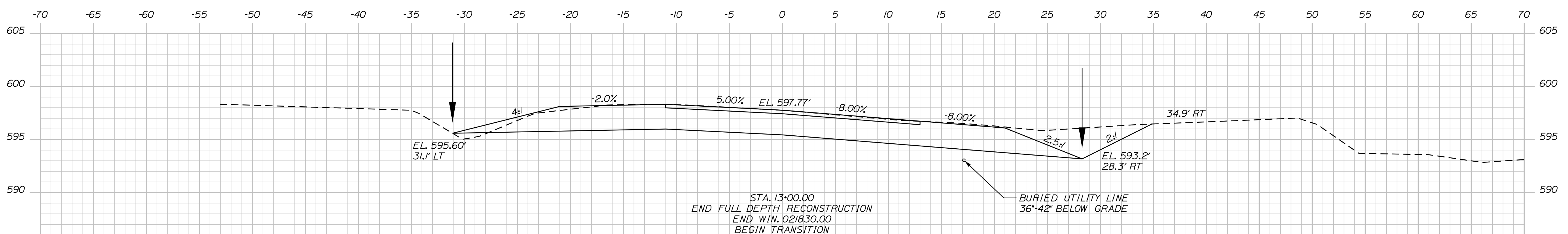
Username: David.Wardwell

Division: HIGHWAY

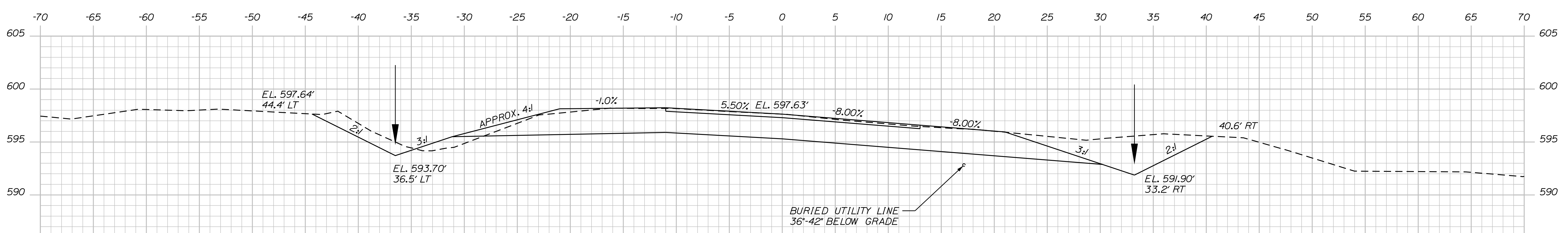
Filename: ... \MSTAD012_XSECT_12+75_005.dgn



13+25.00



13+00.00



12+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
21830.00
WIN
21830.00
HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	ROGER SOUCY	BY	DATE
DESIGN DETAILED	HELSFROM	WARDWELL	04-2021
CHECKED/REVIEWED	HELSFROM	SOUCY	04-2021
DESIGN DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

ST. AGATHA
CLEVELAND ROAD
CROSS SECTIONS

SHEET NUMBER
12
OF 14

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

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

PLAN LEGEND

Existing Proposed

Sanitary Sewer _____
 Telephone Line _____
 Electric Line _____
 Water Line _____
 Underdrain Line _____
 Gas Line _____
 Guardrail _____
 Culvert _____

Traveled Way _____
 Ditch _____
 Catch Basin _____
 Manhole _____
 Sewer Manhole _____
 Utility Pole _____
 Fire Hydrant _____
 Curbing _____

Cut Line _____
 Stonewall _____
 Baseline _____
 Monument _____
 Iron Rod Found _____
 Replacement Pin Set _____

Fill Line _____
 Retaining Wall _____
 Traverse Point _____
 Pipe Found _____

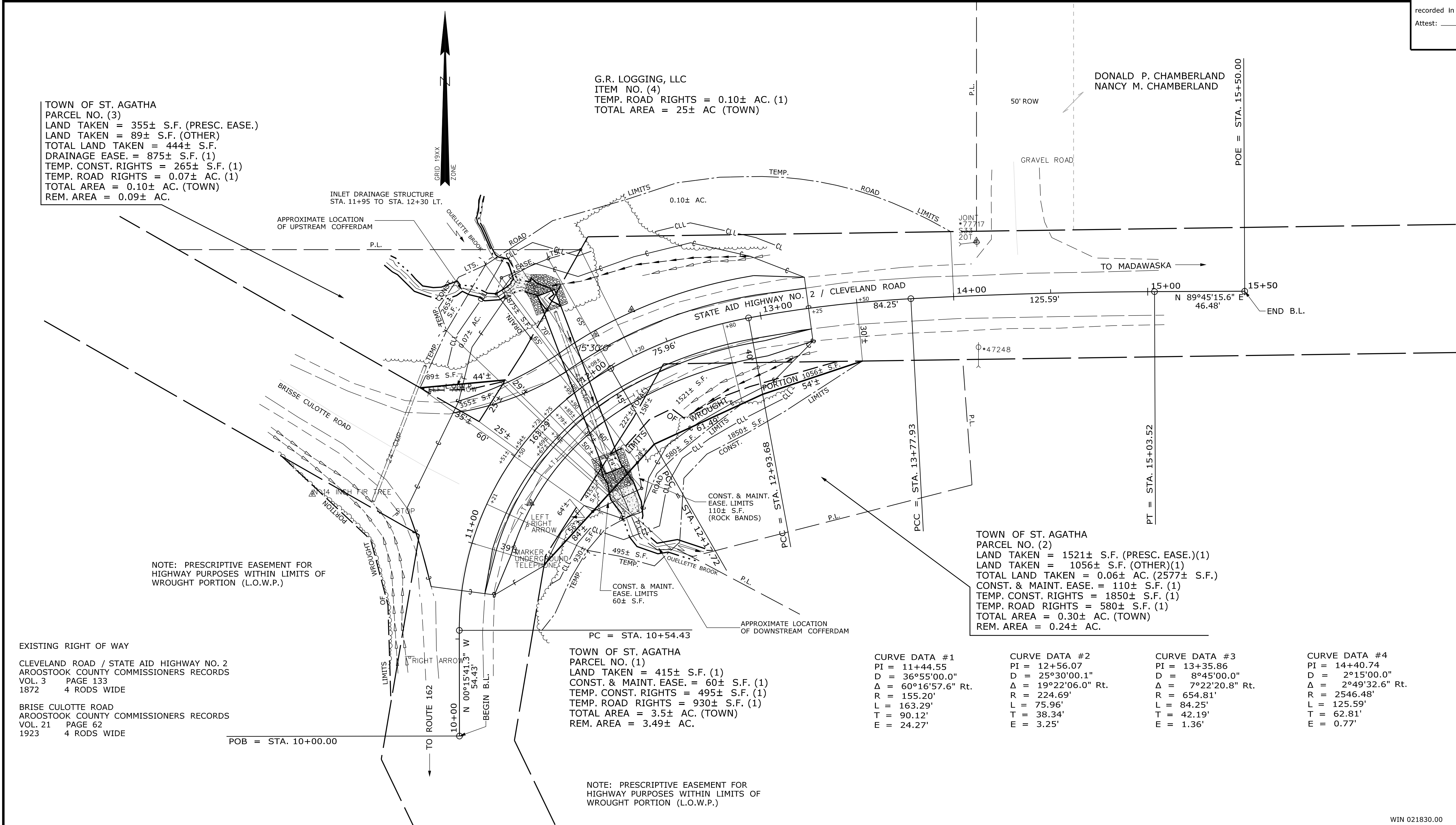
THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJACENT PROPERTY OWNERS.

Scale of Feet

25 0 25 50 75 100

STATE OF MAINE
 REGISTRY OF DEEDS

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



Filename: ... \00\ROW\MSTA001_RWP\PLANT.dgn
 Division: ROW
 Username: TerriLBlair
 Date: 4/15/2021

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

BRUCE A. VAN NOTE
 COMMISSIONER
 JOYCE NOEL TAYLOR
 CHIEF ENGINEER

DATE _____

STATE AID HIGHWAY NO. 2
 CLEVELAND ROAD
 ST. AGATHA AROOSTOOK COUNTY
 STATE PROJECT NO. 21830.00

JANUARY 2021
 SCALE 1" = 25'

RIGHT-OF-WAY MAP
 SHEET 1 OF 1

D.O.T. FILE NO. 2-622

SHEET NUMBER
14
 OF 14

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

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

WIN 021830.00