

PROJECT DESCRIPTION

CONSTRUCTION OF SHARED USE PATH (SUP) ON THE SOUTH SIDE OF CEMETERY ROAD FROM BRITTON PARKWAY TO TRUEMAN BOULEVARD. INCLUDES A NEW PEDESTRIAN BRIDGE OVER IR-270 AND A PEDESTRIAN TUNNEL STRUCTURE EXTENDING BENEATH THE EASTBOUND (EB) CEMETERY ROAD TO SOUTHBOUND (SB) IR-270 RAMP. THE CEMETERY ROAD EB TO IR-270 SB ENTRANCE RAMP AND IR-270 NB TO CEMETERY ROAD EB EXIT RAMP WILL BE REALIGNED TO ACCOMMODATE THE NEW SUP. TRAFFIC SIGNAL UPGRADES ARE PROPOSED AT 5 INTERSECTIONS, AND OTHER MINOR MODIFICATIONS ARE PROPOSED TO IMPROVE PEDESTRIAN SAFETY.

HISTORIC RECORDS

A HISTORIC RECORD SEARCH WAS PERFORMED THROUGH ODOT'S TRANSPORTATION INFORMATION MAPPING SYSTEM (TIMS). THE FOLLOWING REPORT/PLANS WERE AVAILABLE FOR REVIEW AND EVALUATION FOR THIS REPORT:

- PROJECT BORING LOGS, AND STRUCTURAL FOUNDATION INVESTIGATION SHEETS FOR PROJECT FRA-270-4.19, DATED SEPTEMBER 30, 1964;
- PROJECT BORING LOGS, AND STRUCTURAL FOUNDATION INVESTIGATION SHEETS FOR PROJECT FRA-270-3.67, DATED NOVEMBER 12, 1964; AND,
- PROJECT BORING LOGS, AND STRUCTURAL FOUNDATION INVESTIGATION SHEETS FOR PROJECT FRA-270-3.74, DATED OCTOBER 05, 1987.

HISTORICAL SOIL BORINGS ASSOCIATED WITH THE ABOVE PLANS WERE REVIEWED, HOWEVER, THEY WERE NOT UTILIZED FOR ANALYSIS, AND THEREFORE, ARE NOT REFERENCED WITHIN THE GEOTECHNICAL PROFILE SHEETS.

GEOLOGY

THE PROJECT SITE IS LOCATED WITHIN THE COLUMBUS LOWLAND PHYSIOGRAPHIC REGION, PART OF THE TILL PLAINS. THIS IS A LOWLAND AREA SURROUNDED IN ALL DIRECTIONS BY RELATIVE UPLANDS, HAVING A BROAD REGIONAL SLOPE TOWARD THE SCIOTO VALLEY WITH MANY LARGER STREAMS AND MODERATELY LOW RELIEF. THE GEOLOGY WITHIN THIS REGION CONSISTS OF LOAMY, HIGH-LIME IN THE WEST TO MEDIUM-LIME IN THE EAST, WISCONSINAN-AGE TILL AND EXTENSIVE OUTWASH IN SCIOTO VALLEY OVER DEEP DEVONIAN- TO MISSISSIPPIAN-AGE CARBONATE ROCKS, SHALES, AND SILTSTONES.

THE GEOLOGY AT THE PROJECT SITE IS MAPPED AS AN AVERAGE OF 60 FT OF WISCONSINAN TILL ATOP DEVONIAN-AGE LIMESTONE AND SOME DOLOMITE. THE TILL IN THIS REGION IS COMPRISED OF AN UNSORTED MIX OF SILT, CLAY, SAND, GRAVEL, AND BOULDERS WITH VARIABLE CARBONATE CONTENT. THE TILL AT THE SITE MAY CONTAIN SILT, SAND, AND GRAVEL LENSES AND DEPOSITED DIRECTLY FROM SEVERAL SEPARATE ICE ADVANCES.

BASED ON THE BEDROCK GEOLOGIC UNITS MAP OF OHIO BEDROCK WITHIN THE PROJECT AREA IS PRIMARILY COLUMBUS LIMESTONE. THE COLUMBUS LIMESTONE IS COMPRISED OF FOSSILIFEROUS, GRAY LIMESTONE IN THE UPPER TWO THIRDS AND BROWN DOLOMITE IN THE LOWER THIRD, FEATURING MASSIVE BEDDING. THE BEDROCK IS DESCRIBED AS GRAY TO BROWN IN COLOR WEATHERING TO BROWN. BASED ON THE ODNr BEDROCK TOPOGRAPHY MAP OF OHIO, BEDROCK ELEVATION AT THE BRIDGE SITE CAN BE EXPECTED TO BE BETWEEN ABOUT 780 AND 800 FT ABOVE MEAN SEA LEVEL, PUTTING BEDROCK AT DEPTHS RANGING FROM 70 TO 110 FT BELOW GROUND SURFACE.

RECONNAISSANCE

A FIELD RECONNAISSANCE VISIT FOR THE PROJECT SITE WAS CONDUCTED BY NEAS ON JULY 16TH, 2024. SITE CONDITIONS, INCLUDING EXISTING LAND AND PAVEMENT CONDITIONS, WERE NOTED AND PHOTOGRAPHED DURING THE VISIT. DURING OUR FIELD RECONNAISSANCE, NO GEOHAZARDS WERE OBSERVED WITHIN THE PROJECT LIMITS. THE LAND USE OF MOST OF THE PROJECT AREA CONSISTS OF ODOT RIGHT-OF-WAY (ROW) AND COMMERCIAL PROPERTIES.

IN GENERAL, THE LAND LOCATED ALONG THE PROPOSED SUP ALIGNMENT CONSISTS OF ODOT ROW PROPERTY LOCATED SOUTH OF THE EXISTING CEMETERY RD BRIDGE OVER IR-270. CURRENTLY, THE PROPOSED BRIDGE AND SUP AREA CONSISTS OF EMBANKMENT SLOPES ASSOCIATED WITH THE EXISTING BRIDGE AS WELL AS PAVEMENT, SHOULDERS AND DRAINAGE DITCHES ASSOCIATED WITH IR-270. THE EXISTING EMBANKMENT SLOPES WERE VEGETATED WITH SMALL TO LARGE/MATURE TREES AS WELL AS HEAVY BRUSH AND BUSHES WHILE THE PROPERTY IMMEDIATELY ADJACENT TO IR-270 WAS GENERALLY MOWED. WITH RESPECT TO TOPOGRAPHY, THE EASTERN CEMETERY RD EMBANKMENT WAS OBSERVED TO SLOPE DOWNWARD FROM ROADWAY GRADES RANGING FROM ABOUT 2H:1V TO 3.5H:1V. THE WESTERN EMBANKMENT WAS OBSERVED TO SLOPE DOWNWARD AT ABOUT A 2H:1V SLOPE. NO SIGNS OF GEOTECHNICAL INSTABILITY WERE OBSERVED ALONG THE EXISTING EMBANKMENTS AT THE TIME OF OUR RECONNAISSANCE.

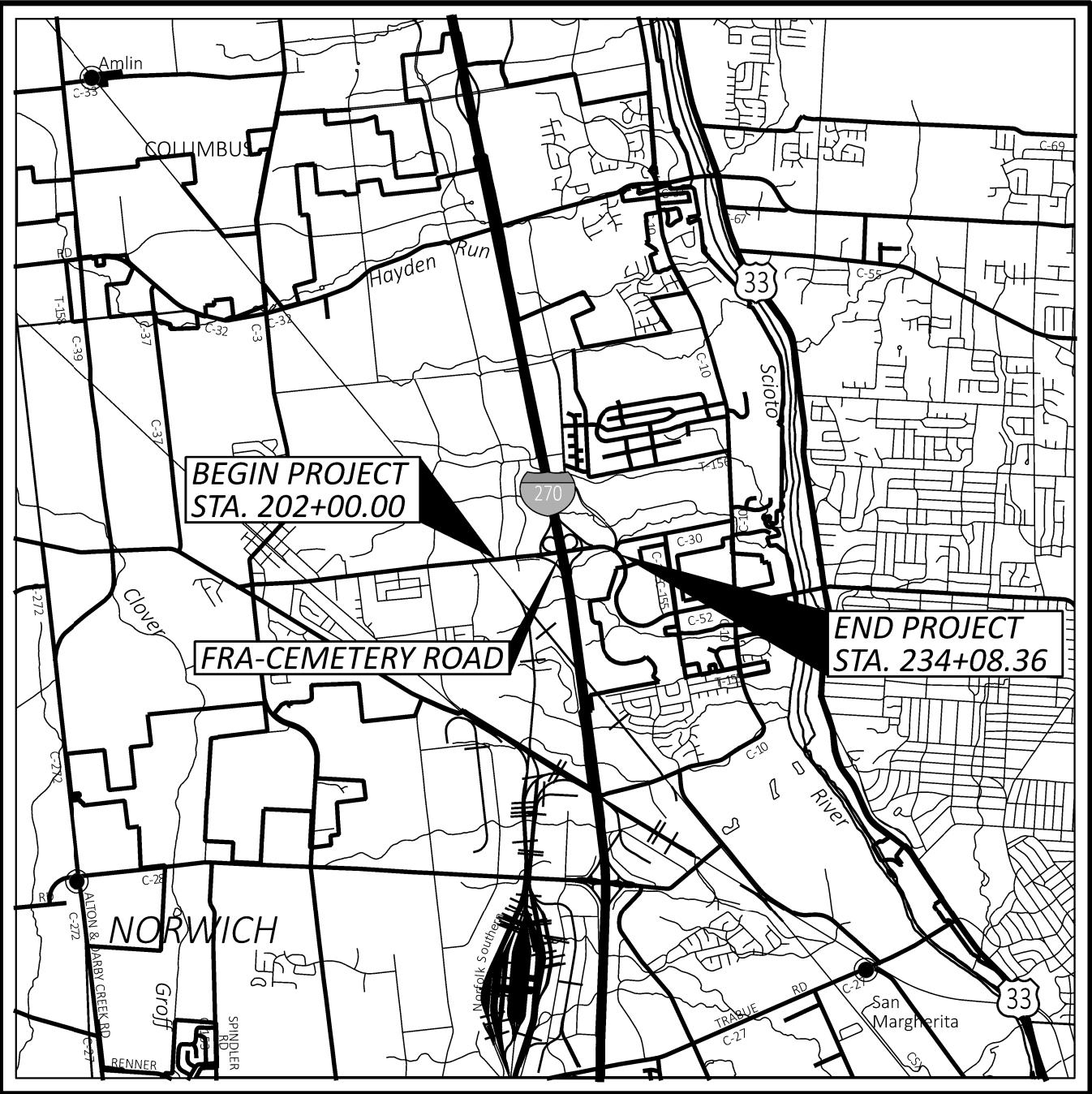
THE PAVEMENT CONDITIONS AT THE TIME OF RECONNAISSANCE FOR THE PROJECT AREA WAS OBSERVED TO BE IN GOOD CONDITION WITH SOME SIGNS OF WEATHERING AND SURFACE WEAR. CRACK SEALING ALONG CEMETERY RD WAS NOTED AS WELL AS LOW SEVERITY EDGE CRACKING AND OCCASIONAL RAVELING. OCCASIONAL LOW SEVERITY TRANSVERSE CRACKING AND RAVELING WAS OBSERVED ALONG THE EXISTING IR 270 RAMPS TO/FROM CEMETERY RD EB. EACH ROADWAY APPEARED TO BE RELATIVELY WELL DRAINED, HOWEVER, EVIDENCE OF STANDING WATER WAS NOTED SOUTH OF CEMETERY RD ON THE WEST SIDE OF THE PROJECT AREA AS WELL AS ALONG THE WEST SIDE OF THE EXISTING CEMETERY RD EB TO IR 270 SB ENTRANCE RAMP. IR-270 AND ASSOCIATED RAMPS APPEARED TO BE WELL DRAINED TO DITCHES ON EITHER SIDE OF THE ROADWAY. OVERALL, IT APPEARS THAT SURFACE WATER DRAINAGE OF THE PROJECT AREA SLOPES TO THE SOUTH AND LIKELY DRAINS TO THE TUDOR DITCH AND ASSOCIATED DETENTION PONDS WITHIN THE AREA WHICH LIKELY DRAIN INTO THE SCIOTO RIVER.

SUBSURFACE EXPLORATION

THE EXPLORATION FOR THE PROJECT WAS CONDUCTED BY NEAS BETWEEN JULY 30, 2024 AND OCTOBER 1, 2024, INCLUDING 16 BORINGS DRILLED TO DEPTHS BETWEEN 7.5 AND 86.5 FT BELOW GROUND SURFACE. THE BORINGS WERE DRILLED USING A CME 55TB TRACK-MOUNTED DRILLING RIG UTILIZING 3.25-INCH DIAMETER HOLLOW STEM AUGERS. SOIL SAMPLES WERE GENERALLY RECOVERED USING A SPLIT SPOON SAMPLER (AASHTO T-206) AT INTERVALS OF 2.5-FT TO A DEPTH OF 35 FT BGS AND AT 5-FT INTERVALS THEREAFTER UNTIL BORING TERMINATION. THE SOIL SAMPLES OBTAINED FROM THE EXPLORATION PROGRAM WERE VISUALLY OBSERVED IN THE FIELD BY THE NEAS FIELD REPRESENTATIVE AND PRESERVED FOR REVIEW BY A GEOLOGIST AND POSSIBLE LABORATORY TESTING. STANDARD PENETRATION TESTS WERE CONDUCTED USING A CME AUTO HAMMER THAT HAVE BEEN CALIBRATED TO BE 89 PERCENT EFFICIENT AS INDICATED ON THE BORING LOGS.

LEGEND

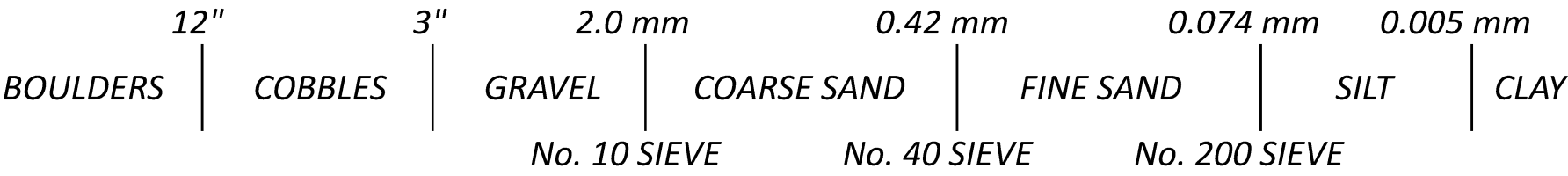
DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
GRAVEL	A-1-a	1	1
GRAVEL WITH SAND	A-1-b	4	14
GRAVEL WITH SAND AND SILT	A-2-4	5	15
GRAVEL WITH SAND, SILT AND CLAY	A-2-6	-	1
FINE SAND	A-3	-	1
COARSE AND FINE SAND	A-3a	1	8
SANDY SILT	A-4a	34	87
SILT	A-4b	1	-
SILT AND CLAY	A-6a	6	3
SILTY CLAY	A-6b	5	4
SILTY CLAY	A-7-6	9	1
	TOTAL	66	135
LIMESTONE	VISUAL		
PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL		
BORING LOCATION - PLAN VIEW.			
DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.			
WC	INDICATES WATER CONTENT IN PERCENT.		
N ₆₀	INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.		
X/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X/D"= NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL.		
X/Y/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X= NUMBER OF BLOWS FOR 6 INCHES (UNCORRECTED). Y/D"= NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL.		
X/Y/Z/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X= NUMBER OF BLOWS FOR FIRST 6 INCHES (UNCORRECTED). Y= NUMBER OF BLOWS FOR SECOND 6 INCHES (UNCORRECTED). Z/D"= NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL.		
SS	INDICATES A SPLIT SPOON SAMPLE.		
TR	INDICATES TOP OF ROCK ELEVATION.		
W	INDICATES FREE WATER ELEVATION.		



LOCATION MAP

SCALE IN MILES

PARTICLE SIZE DEFINITIONS



INDEX OF SHEETS						
EXPLORATION FINDINGS AND CONSOLIDATION TESTING REPORT FOR BORING B-008-0-23, SHEET 2.						
SUMMARY OF SOIL TEST DATA, SHEET 3.						
LOCATION FROM STA. TO STA.	PLAN	PROFILE	CROSS SECTION	STRUCTURE INCLUDED		
				BRIDGE NO.	SFN	
PROP. SHARED-USE PATH BEGIN 18+50	4	4	-	-	-	
BRIDGE NO. FRA-270-1261 BEGIN END	5	5	-	FRA-270-1261	2513085	
PROP. SHARED-USE PATH 18+50 24+50 24+50 30+50	6 7	6 8	- -	FRA-270-1262 -	2513083 -	
EXIST. CEMETERY ROAD 84+50 95+50	9	9	-	-	-	
RETAINING WALL ALONG SUP BEGIN END	10	10	-	-	-	
PROP. RAMP WS 107+50 END	11	11	-	-	-	
PROP. RAMP SE 199+00 END	12	12	-	-	-	
BORING LOGS, SHEETS 13-26.						

- RECON. - MA, 07/16/24
- DRILLING - RW, JL, NS, MA, 07/30/24 - 10/01/24
- DRAWN - RS, 07/13/26
- REVIEWED - BPA, 07/13/26

EXPLORATION FINDINGS

BRIDGE FRA-270-0392

AT THE PROPOSED BRIDGE SITE, THE MATERIALS ENCOUNTERED BELOW THE EXISTING PAVEMENT SECTION, TOPSOIL OR GROUND SURFACE WERE GENERALLY, EMBANKMENT “MAN-MADE” FILL / POTENTIAL FILL SOILS AND NATURAL GLACIAL TILL SOILS. FILL / POTENTIAL FILL SOILS WERE ENCOUNTERED IN EACH OF THE BORINGS PERFORMED AT THE BRIDGE SITE EXTENDING TO DEPTHS RANGING FROM 4.5 FT TO 7.0 FT BGS AND WERE CLASSIFIED AS COHESIVE SANDY SILT (A-4A), SILT AND CLAY (A-6A) AND SILTY CLAY (A-6B). THE EXCEPTION BEING A SAMPLE OF NON-COHESIVE, COARSE-GRAINED MATERIAL ENCOUNTERED WITHIN BORING B-008-0-23 THAT CLASSIFIED AS STONE FRAGMENTS WITH SAND AND SILT (A-2-4).

NATURALLY DEPOSITED GLACIAL TILL SOILS WERE ENCOUNTERED UNDERLYING THE FILL / POTENTIAL SOILS IN EACH OF THE BORINGS PERFORMED AT THE BRIDGE SITE AND EXTENDED TO BORING TERMINATION DEPTH. IN GENERAL, THE TILL CAN BE DIVIDED INTO AN UPPER AND LOWER STRATUM BASED ON THE CHARACTERISTICS. THE UPPER TILL STRATUM GENERALLY CONSISTED OF COHESIVE, FINE-GRAINED SOILS, THOUGH RELATIVELY THIN LAYERS (2.5-FT TO 12.5-FT THICK) OF NON-COHESIVE, COARSE- AND FINE-GRAINED MATERIAL WERE ENCOUNTERED IN THIS STRATUM. THE LOWER TILL STRATUM GENERALLY CONSISTED OF NON-COHESIVE, COARSE- AND FINE-GRAINED SOILS WITH THE EXCEPTION BEING A SAMPLE OF COHESIVE, FINE-GRAINED MATERIAL ENCOUNTERED AT A DEPTH OF 38.5 FT BGS IN BORING B-008-0-23. THE COHESIVE TILL ENCOUNTERED AT THE SITE CLASSIFIED AS SANDY SILT (A-4A) WHILE THE NON-COHESIVE TILL ENCOUNTERED AT THE SITE CLASSIFIED AS GRAVEL AND/OR STONE FRAGMENTS WITH SAND (A-1-B), GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT (A-2-4), FINE SAND (A-3), COARSE AND FINE SAND (A-3A), NON-COHESIVE SANDY SILT (A-4A) AND NON-COHESIVE SILT (A-4B).

BRIDGE FRA-TUNNEL

AT THE PROPOSED TUNNEL SITE, THE MATERIALS ENCOUNTERED BELOW THE TOPSOIL WERE GENERALLY, EMBANKMENT “MAN-MADE” FILL / POTENTIAL FILL SOILS AND NATURAL GLACIAL TILL SOILS. FILL / POTENTIAL FILL SOILS WERE ENCOUNTERED IN EACH OF THE BORINGS PERFORMED AT THE BRIDGE SITE EXTENDING TO DEPTHS RANGING FROM 5.5 FT TO 9.5 FT BGS AND WERE CLASSIFIED AS COHESIVE SANDY SILT (A-4A), SILT AND CLAY (A-6A) AND SILTY CLAY (A-6B). THE EXCEPTION BEING A SAMPLE OF COARSE-GRAINED SOILS ENCOUNTERED AT A DEPTH OF 5.0 FT BGS IN BORING B-012-0-23 THAT CLASSIFIED AS COARSE AND FINE SAND (A-3A).

NATURALLY DEPOSITED GLACIAL TILL SOILS WERE ENCOUNTERED UNDERLYING THE FILL SOILS IN BOTH BORINGS PERFORMED AT THE TUNNEL SITE AND EXTENDED TO A BORING TERMINATION DEPTH. IN GENERAL, THE TILL CAN BE DIVIDED INTO AN UPPER AND LOWER STRATUM BASED ON THE CHARACTERISTICS. THE UPPER TILL STRATUM GENERALLY CONSISTED OF COHESIVE, FINE-GRAINED SOILS EXTENDING TO DEPTHS BETWEEN 43.3 AND 46.8 FT BGS AND CLASSIFIED AS COHESIVE SANDY SILT (A-4A). THE EXCEPTIONS BEING A SAMPLE OF COARSE-GRAINED MATERIAL IN BORING B 012-0-23 THAT CLASSIFIED AS COARSE AND FINE SAND (A-3A) AS WELL AS A SAMPLE OF NON-COHESIVE, FINE-GRAINED SOIL IN BORING B-013-0-23 THAT CLASSIFIED AS NON-COHESIVE SANDY SILT (A-4A). THE LOWER STRATUM CONSISTED OF COARSE-GRAINED SOILS THAT CLASSIFIED AS GRAVEL WITH SAND AND SILT (A-2-4), OR GRAVEL WITH SAND (A-1-B).

RETAINING WALL 1

AT THE PROPOSED RETAINING WALL SITE, THE MATERIALS ENCOUNTERED BELOW THE EXISTING PAVEMENT SECTION WERE GENERALLY, “MAN-MADE” FILL / POTENTIAL FILL SOILS AND NATURAL GLACIAL TILL SOILS. FILL / POTENTIAL FILL SOILS WERE ENCOUNTERED IN EACH OF THE BORINGS PERFORMED AT THE RETAINING WALL SITE EXTENDING TO DEPTHS RANGING FROM 5.5 FT TO 8.0 FT BGS. THE FILL AT THE SITE IS COMPRISED OF BOTH COHESIVE, FINE-GRAINED MATERIAL (B-001-0-23) THAT CLASSIFIED AS SILTY CLAY (A-6B), AND COARSE-GRAINED MATERIAL (B-002-0-23) CLASSIFIED AS STONE FRAGMENTS (A-1-A).

NATURALLY DEPOSITED GLACIAL TILL SOILS WERE ENCOUNTERED UNDERLYING THE FILL SOILS IN BOTH BORINGS PERFORMED AT THE RETAINING WALL SITE AND EXTENDED TO THE BOREHOLE TERMINATION DEPTHS. THE NATURAL GLACIAL TILL ENCOUNTERED AT THE SITE IS GENERALLY COMPRISED OF COHESIVE, FINE-GRAINED MATERIAL THAT CLASSIFIED AS EITHER COHESIVE SANDY SILT (A-4A) OR SILT AND CLAY (A-6A). THE EXCEPTION BEING THE LOWER PORTION OF THE STRATUM ENCOUNTERED IN BORING B 001 0 23 IN WHICH THE MATERIAL CONSISTED OF NON-COHESIVE, FINE-AND COARSE-GRAINED SOIL THAT CLASSIFIED AS NON-COHESIVE SANDY SILT (A-4A) AND GRAVEL WITH SAND AND SILT (A-2-4).

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JANUARY 24TH, 2025.

AVAILABLE INFORMATION

THE SOIL, BEDROCK, AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE GEOTECHNICAL PRODILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.



5710 Westbourne Avenue
Columbus, OH 43213
614.892.0162

Consolidation Test

Project Name: Cemetery Rd

Source: B-008-0-23 ST-7 (16.8'-16.9')

Description: Hard, gray, SANDY SILT, some clay, trace gravel, damp.

Prepared by: LR

Checked by: ZM

Date: 10/7/2024

Test Specification: ASTM D 2435

Initial Void Ratio: 0.330

In-situ Vertical Effective Stress(psf): 2300

Initial Bulk Unit Weight (lb/ft³): 141

Dry Unit Weight (lb/ft³): 127

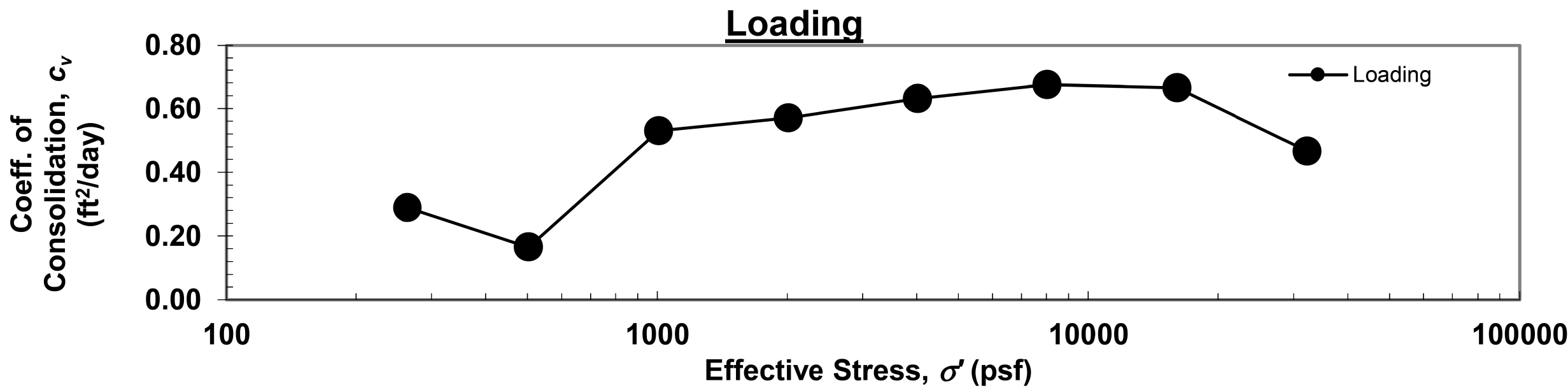
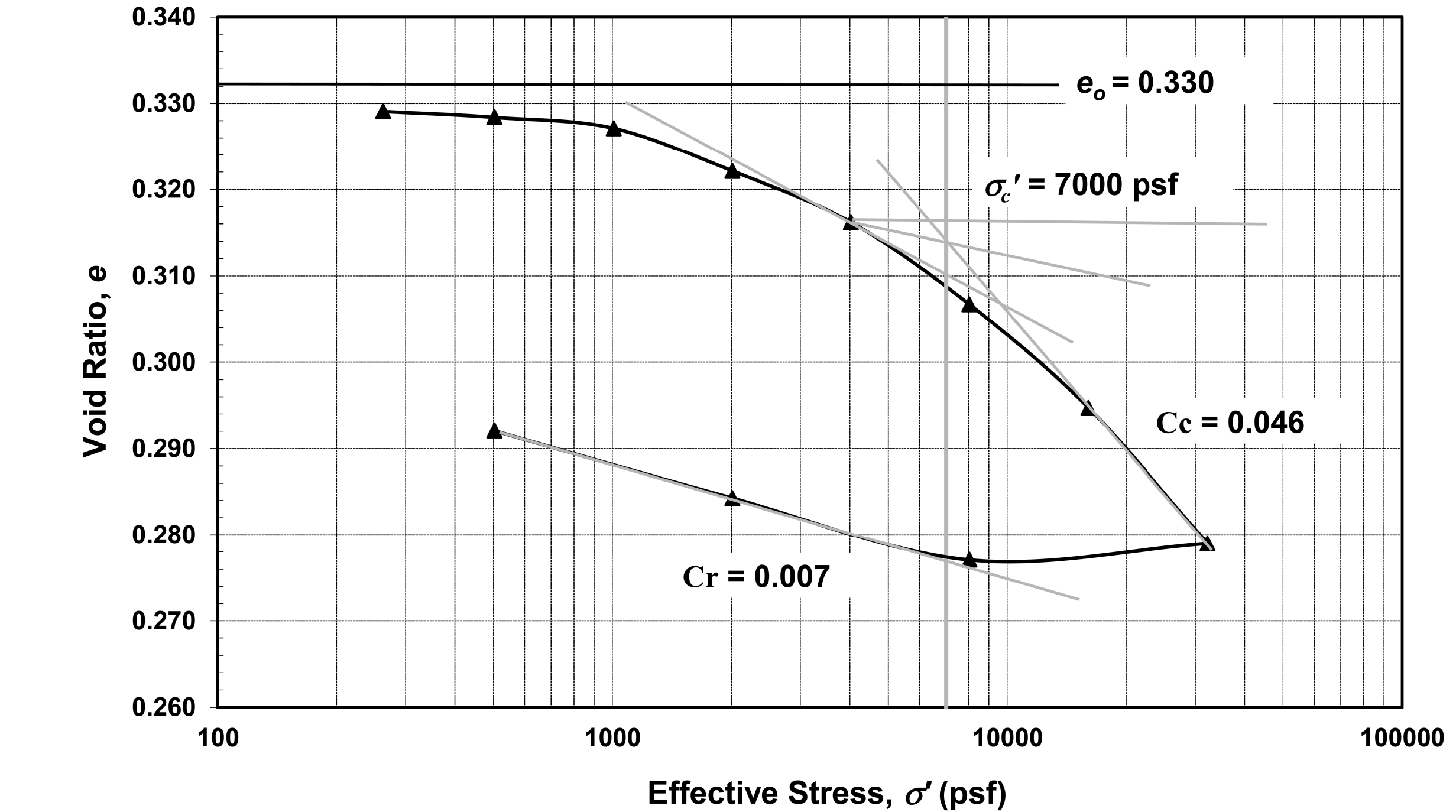
Compression Index (Cc): 0.046

Recompression Index (Cr): 0.007

Preconsolidation Pressure (σ_c ')(psf): 7000

Over-Consolidation Ratio (OCR): 3.0

Consolidation Curve



DESIGN AGENCY



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DESIGNER

RS

REVIEWER

BPA 07/13/26

PROJECT ID

120103

SUBSET

2

TOTAL

26

SHEET

P.0

TOTAL

0

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt_PAPER\$SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:21:25 PM PLTDRV: OHDOT_PDF.pltctg PENITBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PRG1865 PRODUCT: OpenRoadsDesigner.10.12.02.4

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SUMMARY OF SOIL TEST DATA

CEMETERY ROAD

FOR STRUCTURE BORINGS B-001-0-23 AND B-002-0-23, SEE BORING LOGS ON RESPECTIVE SHEETS 25 AND 26.

EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE ID	N60	% REC	HP tsf	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GII)	ppm SO4			
B-003-0-23 STA. 91+75, 51' RT. LATITUDE = 40.033440 LONGITUDE = -83.120162	01.00	-	02.50	SS-1	12	17	-	GRAY, GRAVEL WITH SAND, SILT AND CLAY										11	A-2-6 (VISUAL)	-
	03.50	-	05.00	SS-2	8	72	1	11	6	10	36	37	43	22	21	26	673			
	06.00	-	07.50	SS-3	9	22	2	4	4	9	38	45	47	21	26	24	-			
	08.50	-	10.00	SS-4	20	56	4.5	BROWN, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, TRACE IRON STAINING										9	A-4a (VISUAL)	-

SHARED-USE PATH

FOR STRUCTURE BORINGS B-012-0-23 AND B-013-0-23, SEE BORING LOGS ON RESPECTIVE SHEETS 39 AND 40.

EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE ID	N60	% REC	HP tsf	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4			
B-014-0-23 STA. 24+51, 2' RT. ATTITUDE = 40.032792 LONGITUDE = -83.124901	01.00	-	02.50	SS-1	17	39	4.5	7	5	10	40	38	51	27	24	16	A-7-6 (16)	20		
	03.50	-	05.00	SS-2	13	39	4.5	3	3	9	39	46	50	21	29	17	A-7-6 (18)	-		
	06.00	-	07.50	SS-3	17	33	4.25	29	13	13	28	17	27	17	10	12	A-4a (2)	-		
	08.50	-	10.00	SS-4	16	61	4.5	GRAY, SANDY SILT, SOME CLAY, TRACE TO LITTLE GRAVEL.										12	A-4a (VISUAL)	-
	11.00	-	12.50	SS-5	38	72	3	SAME AS SS-4										12	A-4a (VISUAL)	-
	13.50	-	15.00	SS-6	20	78	4.5	SAME AS SS-4										10	A-4a (VISUAL)	-
	16.00	-	17.50	SS-7	24	72	4.5	18	9	15	35	23	25	15	10	11	A-4a (5)	-		
	18.50	-	20.00	SS-8	18	78	3.5	SAME AS SS-7										13	A-4a (VISUAL)	-

FOR STRUCTURE BORINGS B-006-0-23, B-007-0-23, B-008-0-23, B-009-0-23, AND B-010-0-23, SEE BORING LOGS ON SHEETS 27 THROUGH 36.

B-005-0-23 STA. 31+97, 57' LT. LATITUDE = 40.033191 LONGITUDE = -83.122352	01.00	-	02.50	SS-1	12	50	2.5	20	17	21	30	12	19	14	5	10	10	10	5	10	10	A-4a (1)	20		
	03.50	-	05.00	SS-2	26	44	4.5	SAME AS SS-1															9	A-4a (VISUAL)	-
	06.00	-	07.50	SS-3	16	50	4	SAME AS SS-1															11	A-4a (VISUAL)	-
	08.50	-	10.00	SS-4	33	44	-	BROWN AND GRAY, GRAVEL WITH SAND AND SILT, TRACE CLAY.															8	A-2-4 (VISUAL)	-
	11.00	-	12.50	SS-5	24	72	4.5	14	12	15	35	24	28	17	11	14	14	13	11	14	14	A-6a (5)	-		
	13.50	-	15.00	SS-6	28	67	2	SAME AS SS-5															13	A-6a (VISUAL)	-
	16.00	-	17.50	SS-7	21	78	3.5	11	8	12	36	33	36	17	19	17	17	17	19	17	17	A-6b (10)	-		
	18.50	-	20.00	SS-8	25	61	4	BROWN, SANDY SILT, SOME CLAY, TRACE GRAVEL.															13	A-4a (VISUAL)	-

RAMP WS

EXPLORATION NO., STATION & OFFSET	FROM		TO	SAMPLE		%	REC	HP	%	GR	%	CS	%	FS	%	SILT	%	CLAY	LL	PL	PI	%	WC	ODOT	ppm
	ID	N60		ID	N60		tsf																CLASS (GI)	SO4	
B-011-0-23 STA. 108+32, 2' LT. LATITUDE = 40.031921 LONGITUDE = -83.124232	01.50	-	03.00	SS-1	32	50	4.5	10	8	13	8	36	33	33	18	15	11	11	15	15	11	A-6a (9)	200		
	03.00	-	04.50	SS-2	25	28	4.5	11	14	20	14	38	17	20	15	5	10	10	5	5	10	A-4a (4)	-		
	04.50	-	06.00	SS-3	30	33	4.5	SAME AS SS-2															10	A-4a (VISUAL)	-
	06.00	-	07.50	SS-4	17	39	-	BROWN, GRAVEL WITH SAND AND SILT, TRACE CLAY.															12	A-2-4 (VISUAL)	-

B-015-0-23 STA. 114+51, 3' LT. LATITUDE = 40.032660 LONGITUDE = -83.126179	01.50	-	03.00	SS-1	14	72	4.5	7	3	9	45	36	47	25	22	18	A-7-6 (14)	13		
	03.00	-	04.50	SS-2	13	67	2.25	1	2	9	38	50	54	22	32	26	A-7-6 (19)	-		
	04.50	-	06.00	SS-3	9	61	1.5	SAME AS SS-2										22	A-7-6 (VISUAL)	-
	06.00	-	07.50	SS-4	17	89	3	BROWN AND GRAY, SILTY CLAY, LITTLE SAND, TRACE GRAVEL, IRON STAINING.										13	A-6b (VISUAL)	-
	01.00	-	02.50	SS-1	9	72	4	5	5	10	41	39	41	22	19	21	A-7-6 (12)	20		
	03.50	-	05.00	SS-2	40	89	4.25	25	11	13	33	18	23	15	8	11	A-4a (3)	-		
	06.00	-	07.50	SS-3	4	78	4	BROWN, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, IRON STAINING.										12	A-6a (VISUAL)	-
	08.50	-	10.00	SS-4	30	61	4.5	BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL.										12	A-4a (VISUAL)	-

RAMP SE

EXPLORATION NO., STATION & OFFSET	FROM	TO	SAMPLE ID	N60	% REC	HP tsf	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GIL)	ppm SO4			
B-004-0-23 STA. 202+31, 12' RT. LATITUDE = 40.032851 LONGITUDE = -83.121771	01.50	-	03.00	SS-1	8	39	1.5	7	13	38	35	49	26	23	27	A-7-6 (15)	13			
	03.00	-	04.50	SS-2	11	56	0.5	9	8	13	36	34	42	22	20	22	A-7-6 (11)	-		
	04.50	-	06.00	SS-3	21	50	4.5	OWN BECOMING BROWN MOTTLED W/ GRAY, SANDY SILT, LITTLE CLAY, TRACE GRAV										17	A-4a (VISUAL)	-
	06.00	-	07.50	SS-4	13	39	4.5	SAME AS SS-3										13	A-4a (VISUAL)	-

DESIGN AGENCY



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DESIGNER

RS

REVIEWER

BPA 07/13/26

PROJECT ID

120103

SUBSET

3

TOTAL

26

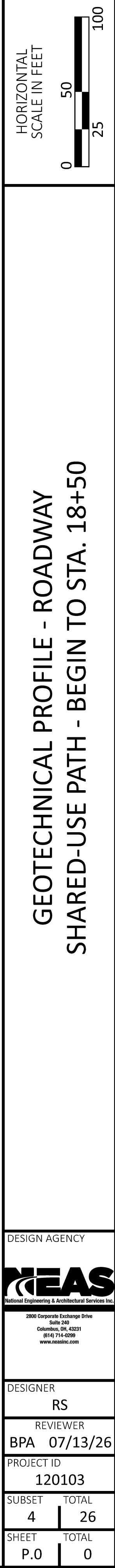
SHEET

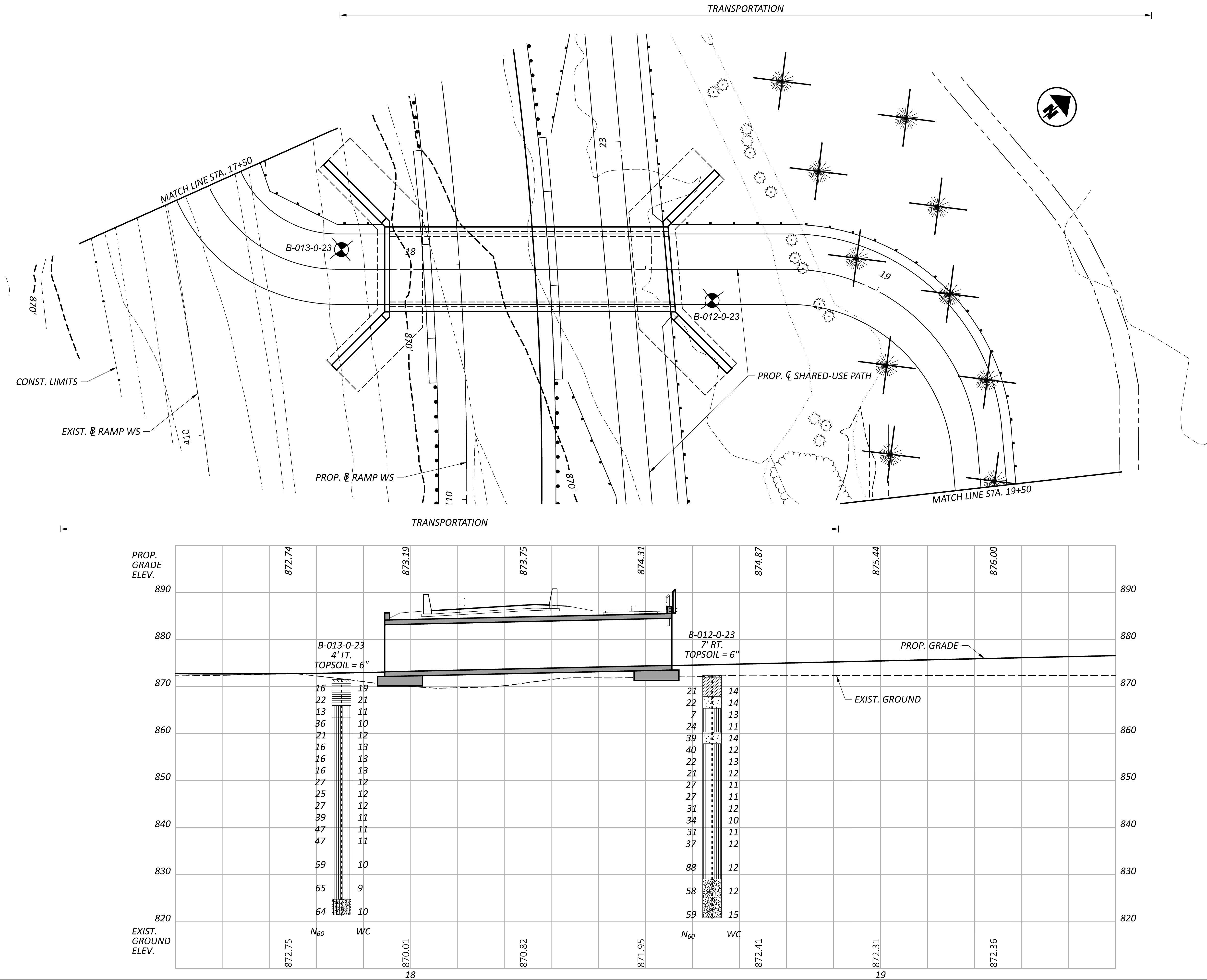
P.0

TOTAL

0

GEOTECHNICAL PROFILE - ROADWAY
SUMMARY OF SOIL TEST DATA





HORIZONTAL
SCALE IN FEET

0 5 10 20

GEOTECHNICAL PROFILE - ROADWAY
BRIDGE NO. FRA-270-1261 - BEGIN TO END

DESIGN AGENCY

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DESIGNER

RS

REVIEWER

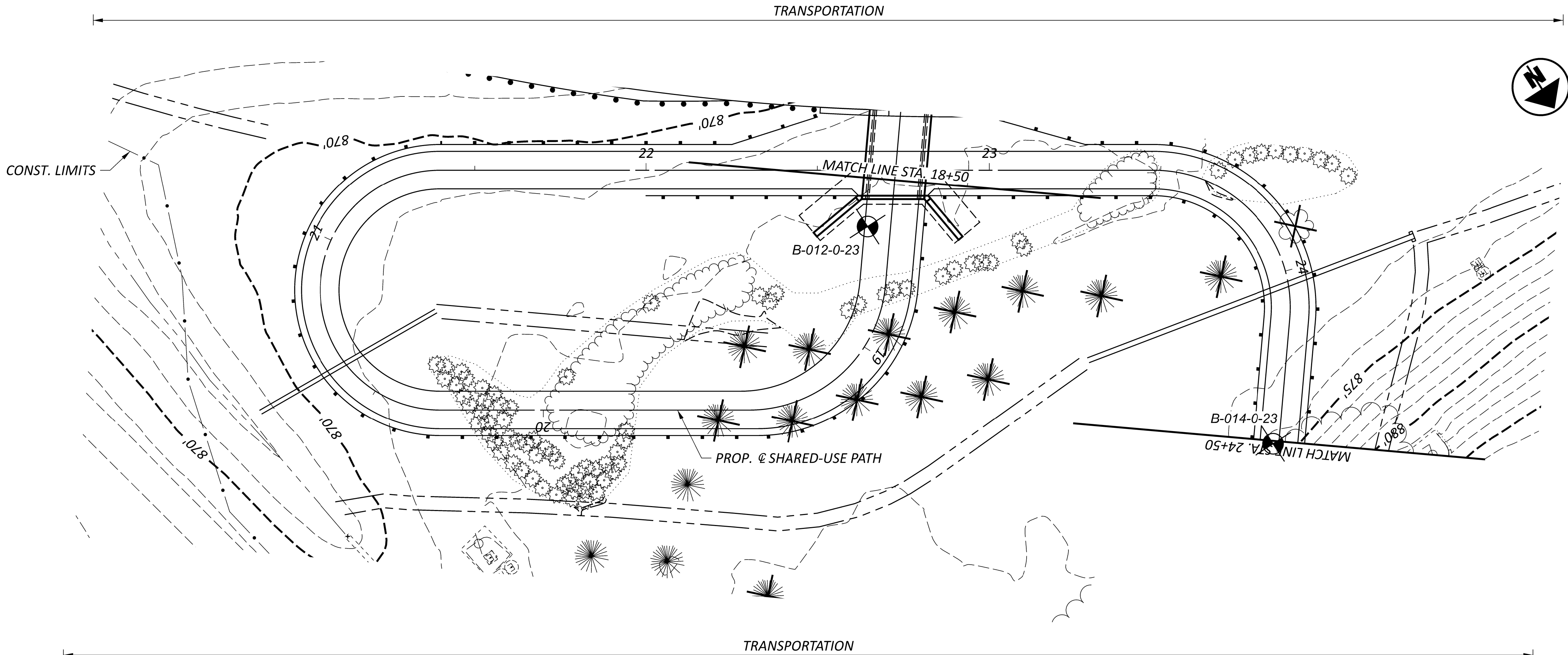
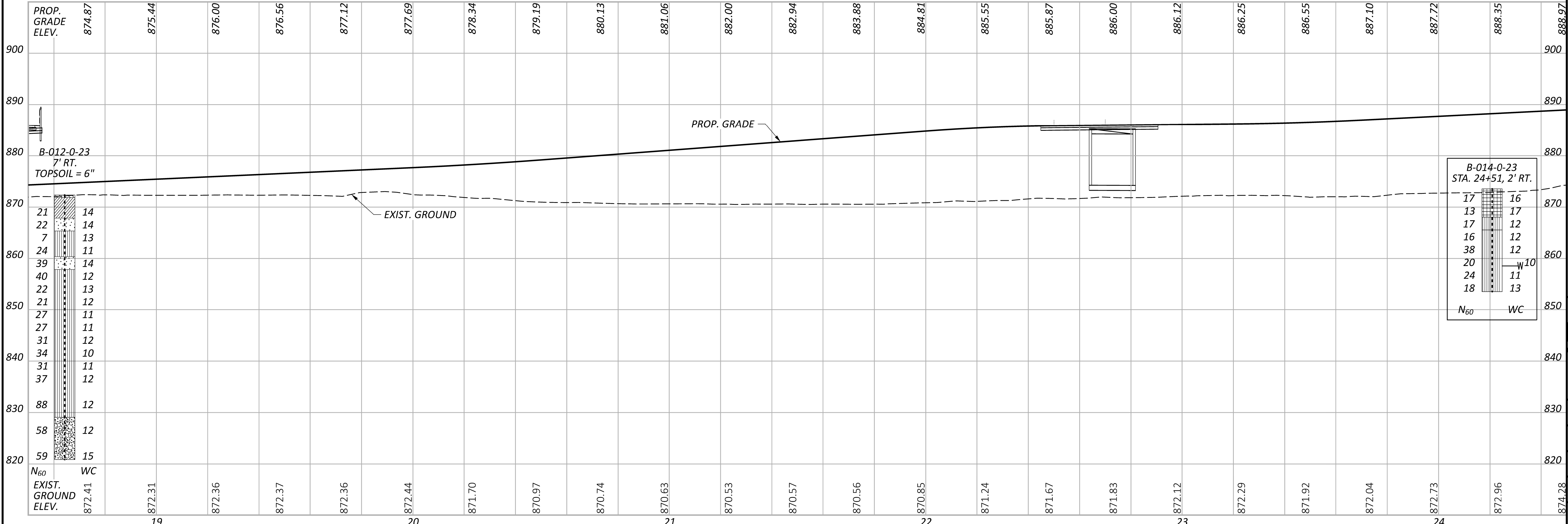
BPA 07/13/26

PROJECT ID

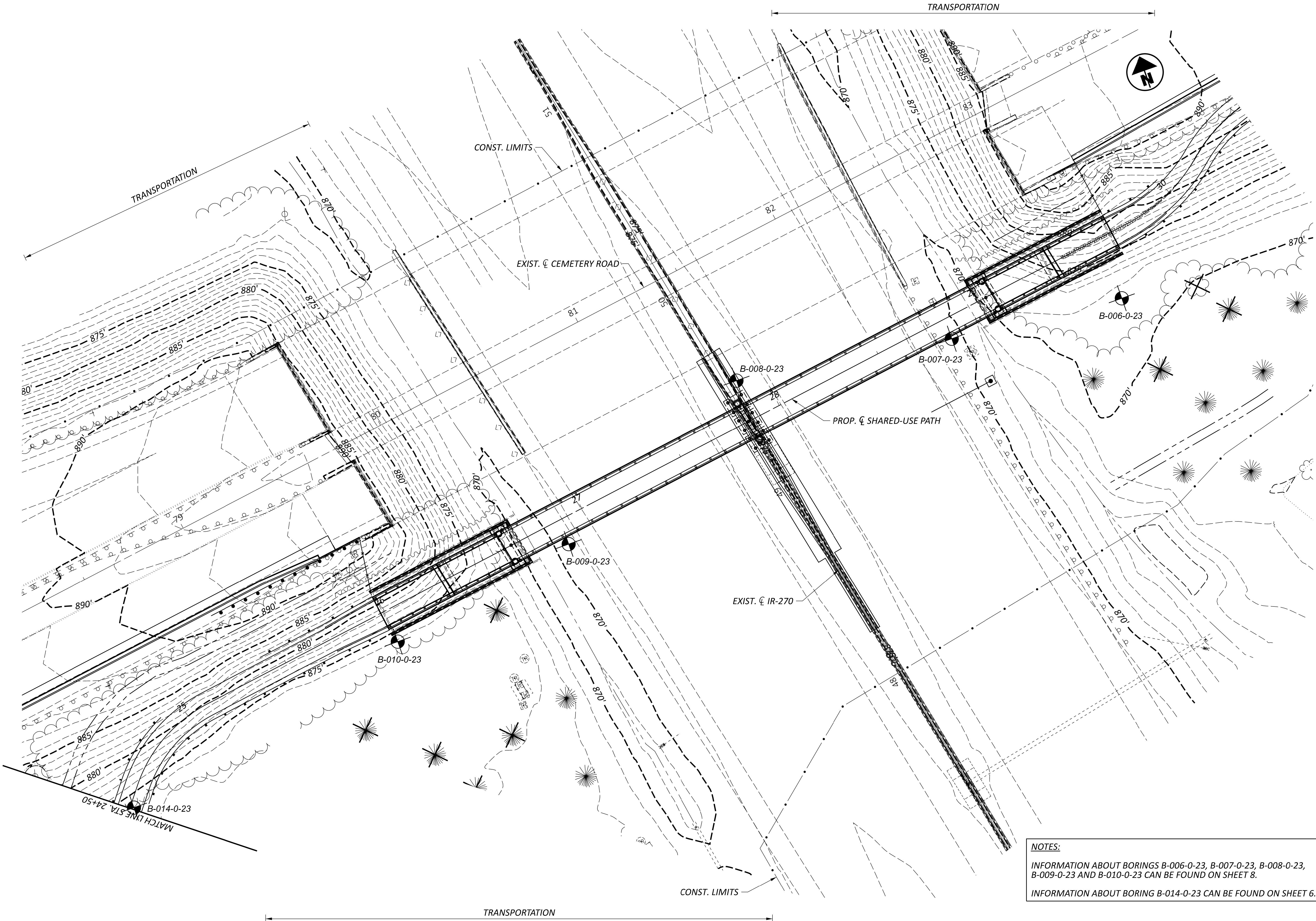
120103

SUBSET	TOTAL
5	26

SHEET	TOTAL
P.0	0



GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH - STA. 18+50 TO STA. 24+50

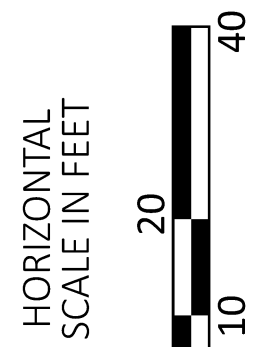
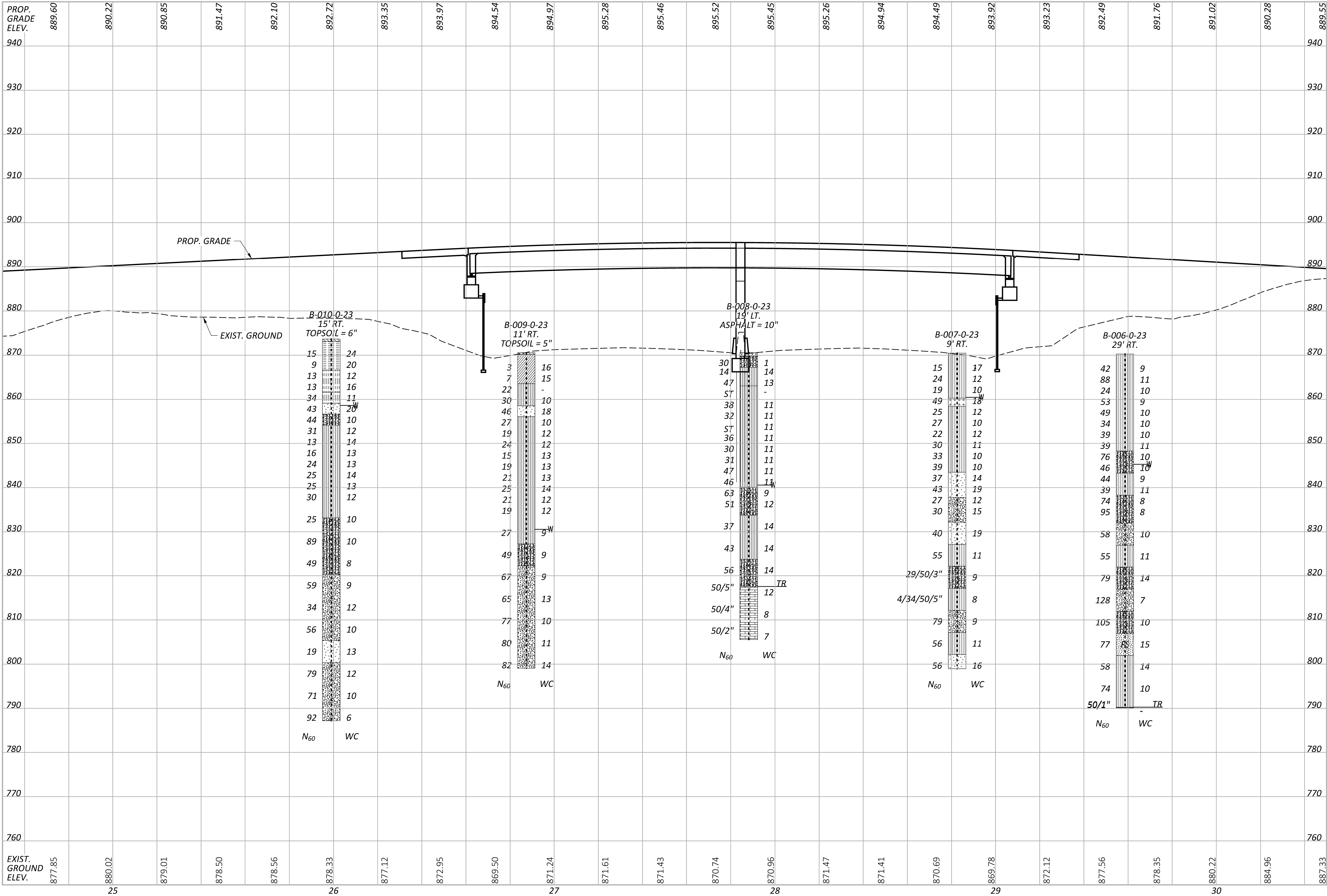


NOTES:
INFORMATION ABOUT BORINGS B-006-0-23, B-007-0-23, B-008-0-23, B-009-0-23 AND B-010-0-23 CAN BE FOUND ON SHEET 8.
INFORMATION ABOUT BORING B-014-0-23 CAN BE FOUND ON SHEET 6.

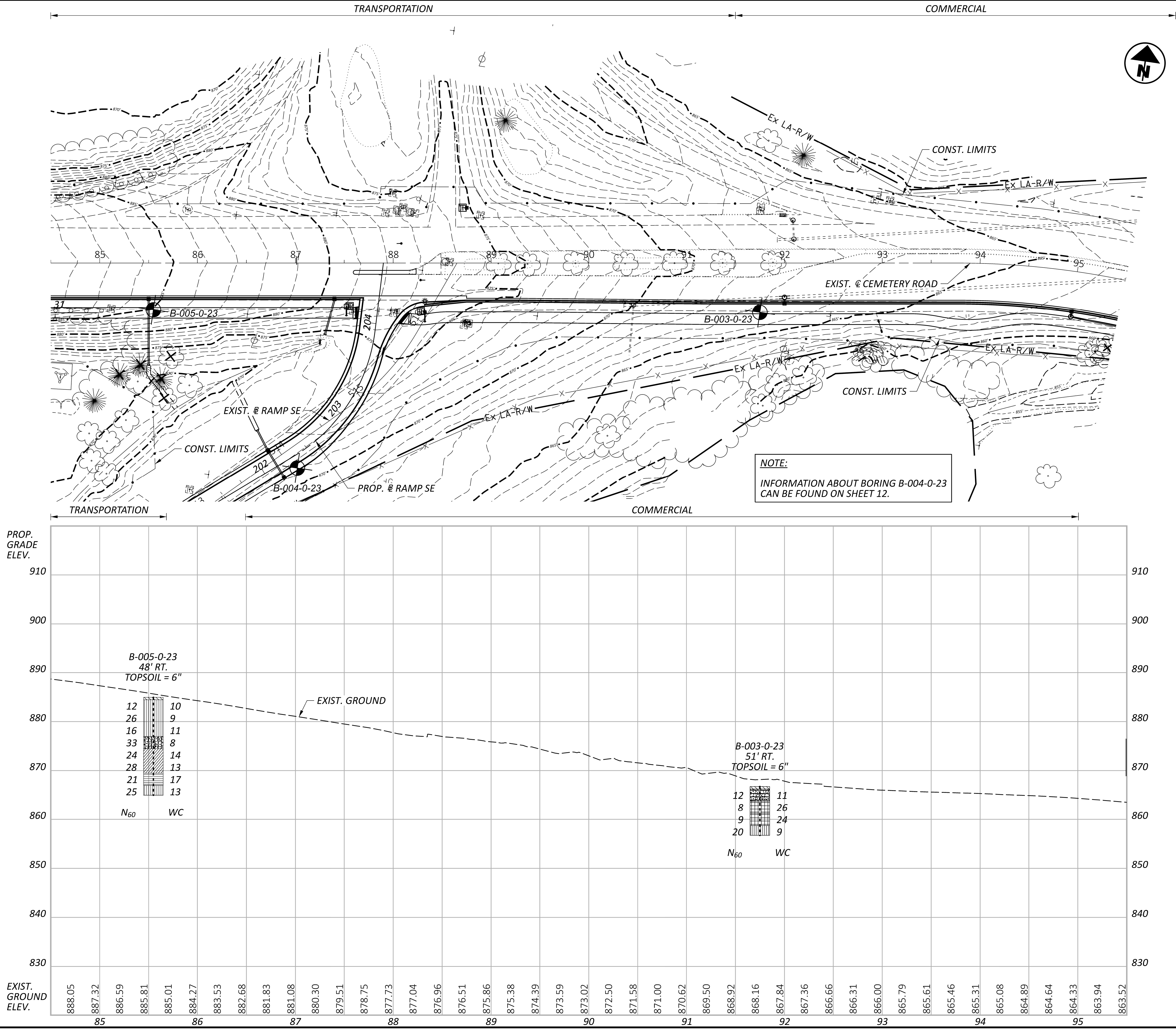
GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH - STA. 24+50 TO STA. 30+50

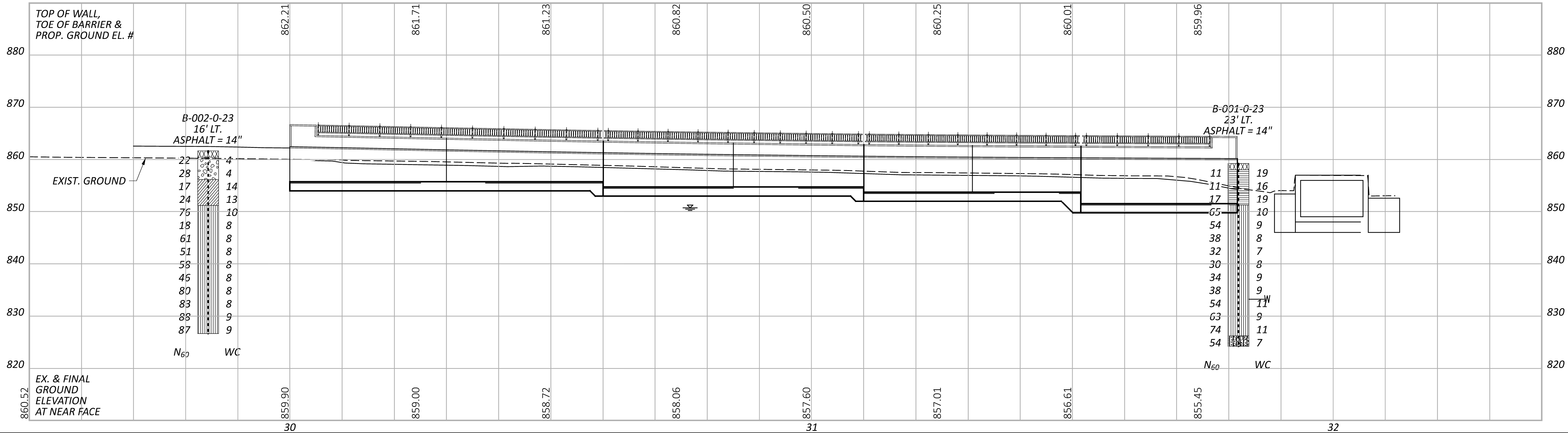
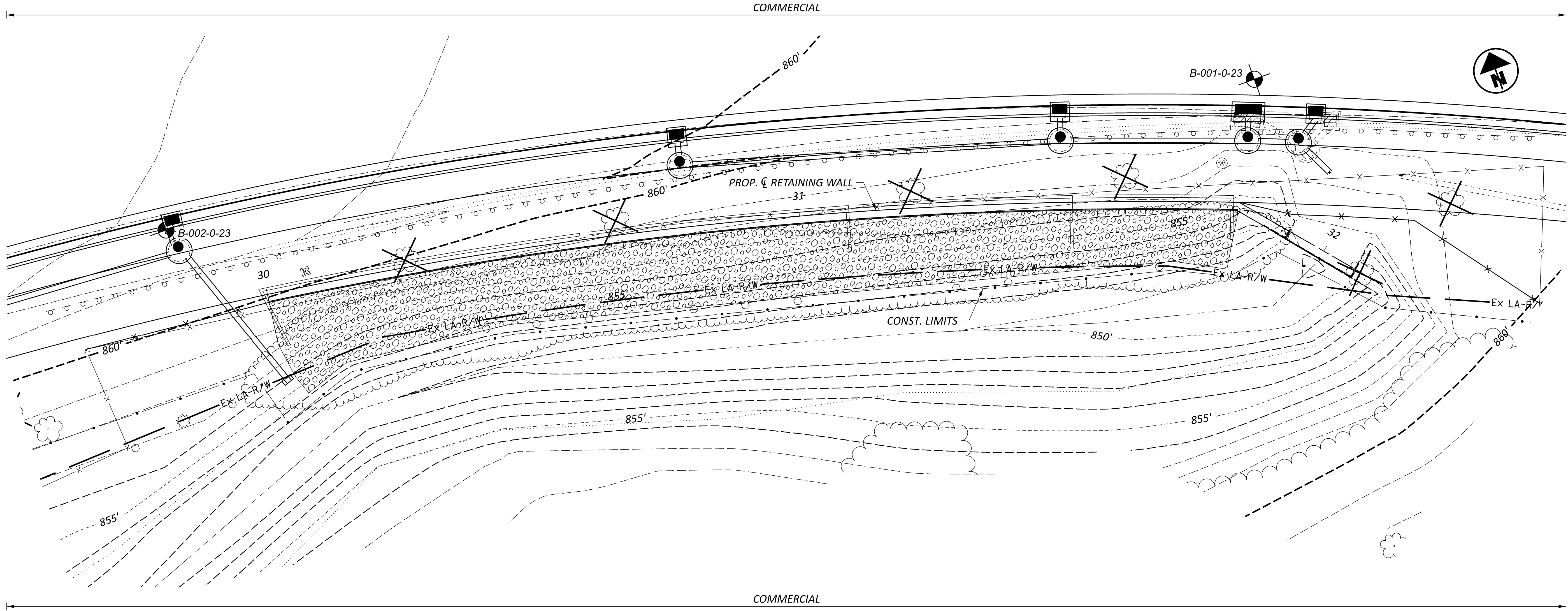
DESIGN AGENCY
NEAS
National Engineering & Architectural Services Inc.
2800 Corporate Exchange Drive
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Columbia, SC 29211
(816) 714-0200
www.neasinc.com

DESIGNER	RS
REVIEWER	BPA
PROJECT ID	120103
SUBSET	TOTAL
7	26
SHEET	TOTAL
P.O	0

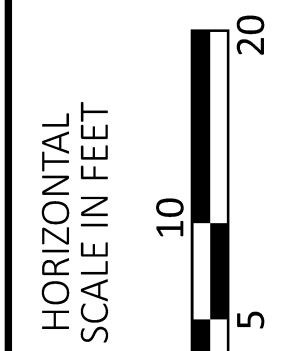


GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH - STA. 24+50 TO STA. 30+50



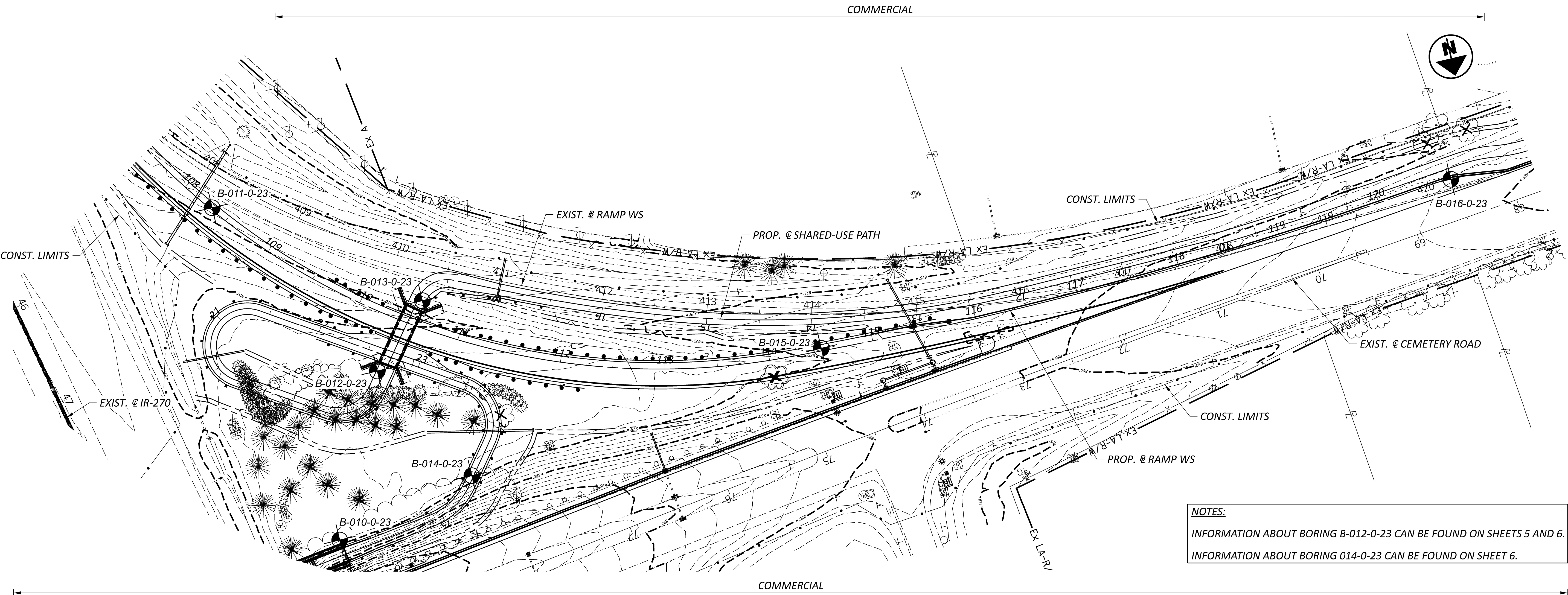


GEOTECHNICAL PROFILE - ROADWAY
RETAINING WALL - BEGIN TO END

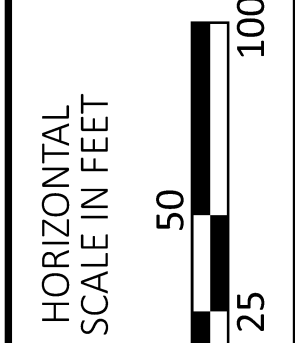
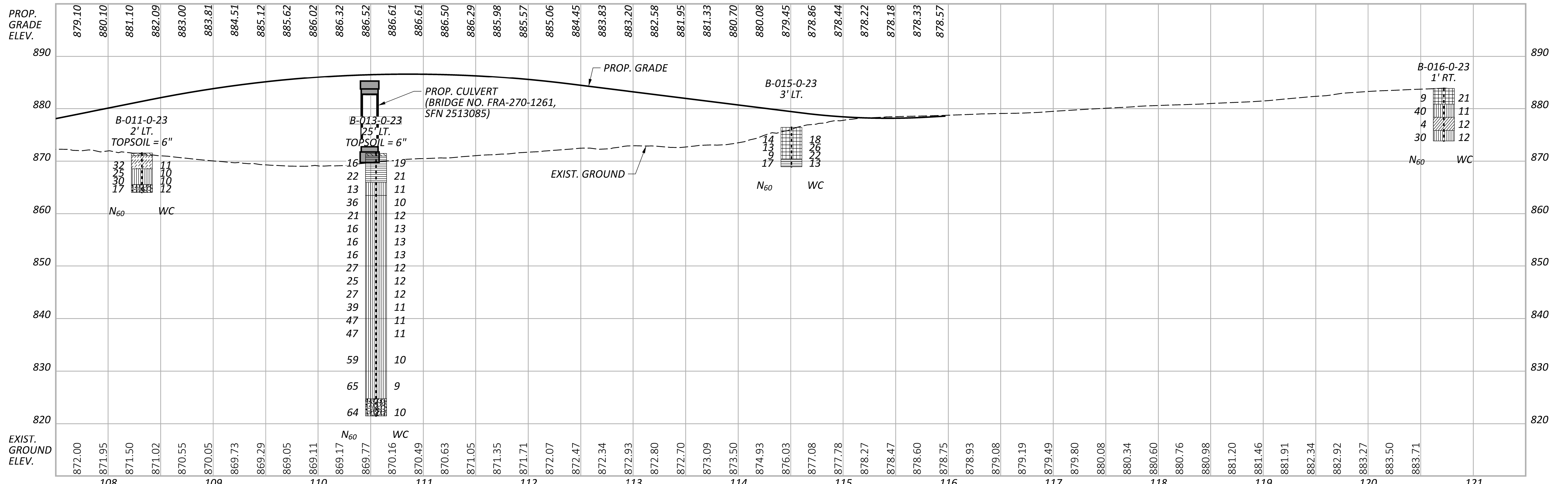


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DESIGNER
RS
REVIEWER
BPA 07/13/26
PROJECT ID
120103
SUBSET TOTAL
10 26
SHEET TOTAL
P.O 0



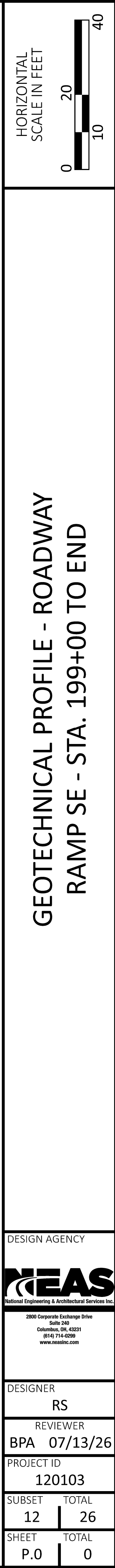
NOTES:
INFORMATION ABOUT BORING B-012-0-23 CAN BE FOUND ON SHEETS 5 AND 6.
INFORMATION ABOUT BORING 014-0-23 CAN BE FOUND ON SHEET 6.



GEOTECHNICAL PROFILE - ROADWAY
RAMP WS - STA. 107+50 TO END

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DESIGNER
RS
REVIEWER
BPA 07/13/26
PROJECT ID
120103
SUBSET TOTAL
11 26
SHEET TOTAL
P.O 0



FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:31:07 PM PLTDRV: OHDOT_PDF.plt USER: WORKSPACE: OHDOT Pen.tbl PENTBL: OHDOT_Pen.tbl WORKSET: PR61865 PRODUCT: OpenRoads Designer 10.12.02.4
pw:\\bn-pw.bentley.com\\bn-pw-01\\Documents\\PR61865\\400-Engineering\\Geotechnical\\Sheets\\120103_Z1001.dgn

[illegible]

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:40 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\GINT FILES\CEMETERY RD 81224.GPJ

NOTES: GROUNDWATER ENCOUNTERED AT 26.0' DURING DRILLING. HOLE CAVED-IN AT 32.0'. BORING OFFSET INTO ROADWAY.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 1 BAG HOLE PLUG; SHOVELED SOIL CUTTINGS

DESIGN AGENCY

National Engineering & Architectural Services Inc.
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DESIGNER	
RS	
REVIEWER	
BPA 07/13/26	
PROJECT ID	
120103	
SUBSET	TOTAL
13	26
SHEET	TOTAL
P.0	0

GEOTECHNICAL PROFILE - ROADWAY
RETAINING WALL
B-001-0-23

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:31:38 PM PLTDRV: OHDOT_PDF.plt USER: WORKSPACE: OHDOT Pen.tbl PENTBL: OHDOT_Pen.tbl WORKSET: PR61865 PRODUCT: OpenRoads Designer 10.12.02.4
pw:\\bn-pw.bentley.com:bn-pw-01\\Documents\\PR61865\\400-Engineering\\Geotechnical\\Sheets\\120103_ZL002.dgn

[illegible]

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:40 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\GINT FILES\CEMETERY RD 81224.GPJ

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE CAVED-IN AT 31.0'. BORING OFFSET INTO ROADWAY.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; POURED 1 BAG HOLE PLUG; SHOVELED SOIL CUTTINGS

DESIGN AGENCY  National Engineering & Architectural Services Inc.	
2800 CORPORATE EXCHANGE DR, SUITE 240 COLUMBUS, OH, 43231 TEL: 614. 714. 0299 WWW.NEASINC.COM	
DESIGNER RS	
REVIEWER BPA 07/13/26	
PROJECT ID 120103	
SUBSET 14	TOTAL 26
SHEET P.O	TOTAL 0

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER: 34x22 (in.) DATE: 7/10/2026 TIME: 5:32:09 PM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PRG1865 PRODUCT: OpenRoadsDesigner.10.12.02.4

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PROJECT: _____ CEMETERY RD			DRILLING FIRM / OPERATOR: _____ NEAS INC. / JL			DRILL RIG: _____ CME 55TB (NEW)			STATION / OFFSET: 29+59.29' RT.										EXPLORATION ID				
TYPE: _____ BRIDGE			SAMPLING FIRM / LOGGER: _____ NEAS INC. / MA			HAMMER: _____ CME AUTOMATIC			ALIGNMENT: _____ SHARED-USE PATH										B-006-0-23				
PID: _____ SFN: _____			DRILLING METHOD: 3.25" HSA			CALIBRATION DATE: 7/30/24			ELEVATION: 873.2 (MSL) EOB: 80.2 ft.										PAGE				
START: 8/8/24 END: 8/9/24			SAMPLING METHOD: SPT			ENERGY RATIO (%): 89			LAT / LONG: 40.033004, -83.123175										1 OF 2				
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL			
VERY STIFF TO HARD, BROWN BECOMING GRAY, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, IRON STAINING, DAMP			873.2	1																			
				2																			
				3	12	42	50	SS-1	4.50	-	-	-	-	-	-	-	-	-	-	9	A-4a (V)	-	
				4																			
				5																			
				6	12	20	88	33	SS-2	2.50	-	-	-	-	-	-	-	-	-	11	A-4a (V)	-	
				7																			
				8	5	9	24	78	SS-3	4.00	19	10	13	38	20	21	15	6	10	A-4a (5)	-		
				9																			
				10	9	16	53	100	SS-4	4.50	-	-	-	-	-	-	-	-	-	9	A-4a (V)	-	
				11																			
				12																			
				13	12	19	49	100	SS-5	4.50	-	-	-	-	-	-	-	-	-	10	A-4a (V)	-	
				14																			
				15	7	11	34	94	SS-6	4.50	-	-	-	-	-	-	-	-	-	10	A-4a (V)	-	
				16																			
				17																			
				18	8	13	39	36	SS-7	4.50	-	-	-	-	-	-	-	-	-	10	A-4a (V)	-	
				19																			
				20																			
				21	7	12	39	44	SS-8	4.50	-	-	-	-	-	-	-	-	-	11	A-4a (V)	-	
22																							
23	8	22	76	39	SS-9	-	-	-	-	-	-	-	-	-	-	10	A-2-4 (V)	-					
24																							
25	12	14	46	75	SS-10	-	28	21	17	21	13	20	14	6	10	A-2-4 (0)	-						
26																							
27																							
28	10	13	45	100	SS-11	4.00	-	-	-	-	-	-	-	-	-	9	A-4a (V)	-					
29																							
30	9	10	39	94	SS-12	3.50	-	-	-	-	-	-	-	-	-	11	A-4a (V)	-					
31																							
32																							
33	11	22	74	67	SS-13	-	-	-	-	-	-	-	-	-	-	8	A-2-4 (V)	-					
34																							
35	29	34	95	100	SS-14	-	-	-	-	-	-	-	-	-	-	8	A-2-4 (V)	-					
36																							
37																							
38																							
39																							
40	11	21	58	33	SS-15	-	-	-	-	-	-	-	-	-	-	10	A-1-b (V)	-					
41																							
42																							
43																							
44																							
45	10	15	55	100	SS-16	-	19	16	25	27	13	17	13	4	11	A-4a (1)	-						
46																							
47																							
48																							
49																							
50	16	21	79	44	SS-17	-	-	-	-	-	-	-	-	-	-	14	A-2-4 (V)	-					
51																							
52																							
53																							
54																							
55	28	38	128	61	SS-18	-	-	-	-	-	-	-	-	-	-	7	A-1-b (V)	-					
56																							
57																							
58																							
59																							

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:45 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\GINT FILES\CEMETERY RD_81224.GPJ



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DESIGNER
RS

REVIEWER
BPA

PROJECT ID
120103

SUBSET	TOTAL
15	26
SHEET	TOTAL
P.0	0

GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH
B-006-0-23

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER: 34x22 (in.) DATE: 7/10/2026 TIME: 5:32:44 PM PLTDRV: OHDOT_PDF-plctg PENITBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PRG1865 PRODUCT: OpenRoadsDesigner.10.12.02.4

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PID:	SFN:	PROJECT:	CEMETERY RD	STATION / OFFSET: 29+59.29' RT.				START: 8/8/24				END: 8/9/24				PG 2 OF 2	B-006-0-23						
MATERIAL DESCRIPTION AND NOTES			ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)				ATTERBERG				WC	ODOT CLASS (g)	SO4 ppm	BACK FILL		
VERY DENSE, GRAY, GRAVEL WITH SAND AND SILT, TRACE CLAY, DAMP (continued)			813.2		61	20 31 40	105	67	SS-19	-	27	20	21	22	10	18	14	4	10	A-2-4 (0)	-		
					62																		
					63																		
					64																		
					65																		
					66																		
					67																		
VERY DENSE, GRAY, FINE SAND, LITTLE SILT, LITTLE COARSE SAND, TRACE CLAY, TRACE GRAVEL, WET			809.9		68																		
					69																		
					70																		
					71																		
					72																		
					73																		
					74																		
VERY DENSE, GRAY, SANDY SILT, SOME GRAVEL, TRACE TO LITTLE CLAY, DAMP			804.9		75	15 18 21	58	72	SS-21	-	-	-	-	-	-	-	-	-	14	A-4a (V)	-		
					76																		
					77																		
					78																		
					79																		
					80																		
					81																		
LIMESTONE LIGHT TAN AND BROWN, SLIGHTLY WEATHERED, STRONG			793.2		82	50/1" 80/1"	-	100/100	SS-23 SS-24	-	-	-	-	-	-	-	-	-	-	Rock (V) Rock (V)	-		
					83																		
					84																		
					85																		
					86																		
					87																		
					88																		

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:33:15 PM PLTDRV: OHDOT_PDF.plt USER: WORKSPACE: OHDOT Pen.tbl PENTBL: OHDOT_Pen.tbl WORKSET: PR61865 PRODUCT: OpenRoads Designer 10.12.02.4
pw:\\bn-pw.bentley.com\\bn-pw-01\\Documents\\PR61865\\400-Engineering\\Geotechnical\\Sheets\\120103_ZL007.dgn

pw: \\bn-pw.bentley.com:bn-pw-01\Documents\PR61865\400-Engineering\Geotechnical\Sheets\120103 ZL007.dgn

[illegible]

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:45 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\GINT FILES\CEMETERY RD 81224.GPJ

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER: 34x22 (in.) DATE: 7/10/2026 TIME: 5:33:50 PM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PRG1865 PRODUCT: OpenRoadsDesigner 10.12.02.4

pw:\bn-pw.bentley.com\bn-pw-01\Documents\PRG1865\400-Engineering\Geotechnical\Sheets\120103_ZL008.dgn

PID:	SFN:	PROJECT:	CEMETERY RD	STATION / OFFSET:		28+83, 9' RT.		START: 8/7/24			END: 8/7/24			PG 2 OF 2		B-007-0-23			
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	GRADATION (%)			ATTERBERG		WC	ODOT CLASS (g)	SO4 ppm	BACK FILL	
VERY DENSE, GRAY, GRAVEL WITH SAND TRACE SILT, TRACE CLAY. MOIST (continued) @60.0'; ADDED WATER AS CIRCULATING FLUID @61.5'; ENCOUNTERED 6" SAND HEAVE				810.5		15	79	100	SS-19	-	-	-	-	-	9	A-1-b (V)	-	-	
					- 61	25	28												
					- 62														
					- 63														
					- 64														
HARD, GRAY, SANDY SILT, SOME GRAVEL, LITTLE CLAY, DAMP @65.0'; ADDED WATER AS CIRCULATING FLUID				807.2	- 65	11	56	100	SS-20	4.50	-	-	-	-	11	A-4a (V)	-	-	
					- 66	18	20												
					- 67														
					- 68														
					- 69														
VERY DENSE, GRAY, COARSE AND FINE SAND LITTLE SILT, TRACE GRAVEL, TRACE CLAY, WET @70.0'; ADDED WATER AS CIRCULATING FLUID				802.2	- 70	6	56	100	SS-21	-	-	-	-	-	16	A-3a (V)	-	-	
					- 71	18	20												
					- EOB														
					- 72														
					- 73														

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:45 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\GINT FILES\CEMETERY RD_81224.GPJ

NOTES: GROUNDWATER ENCOUNTERED AT 10.0' DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 7.0' EAST.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 5 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

DESIGN AGENCY


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DESIGNER

RS

REVIEWER

BPA 07/13/26

PROJECT ID

120103

SUBSET

18

TOTAL

26

SHEET

P.0

TOTAL

0

GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH
B-007-0-23 (CONTINUED)

FRA-CEMETERY ROAD

MODEL: Sheet_Survfit PAPER SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:34:19 PM PLTDRV: OHDOT_PDF.pltctg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PRG1865 PRODUCT: OpenRoads Designer 10.12.02.4
 pw:\\bn-pw.bentley.com:bn-pw-01\\Documents\\PRG1865\\400-Engineering\\Geotechnical\\Sheets\\120103_ZL009.dgn

PROJECT: _____ CEMETERY RD				DRILLING FIRM / OPERATOR: _____ NEAS INC. / RW				STATION / OFFSET: 27+88.19' LT.				EXPLORATION IN B-008-0-23																															
TYPE: _____ BRIDGE				SAMPLING FIRM / LOGGER: _____ NEAS INC. / RW				HAMMER: _____ CME AUTOMATIC				ALIGNMENT: _____ SHARED-USE PATH																															
PID: _____ SFN: _____				DRILLING METHOD: 3.25" HSA				CALIBRATION DATE: 5/15/24				ELEVATION: 870.6 (MSL) EOB: 65.0 ft.																															
START: 9/19/24 END: 10/1/24				SPT / ST				ENERGY RATIO (%): 71				LAT / LONG: 40.033020, -83.123780																															
MATERIAL DESCRIPTION AND NOTES								ELEV.		DEPTHS		SPT/ RQD		REC SAMPLE		HP		GRADATION (%)		ATTERBERG		ODOT CLASS (G)		BACK FILL																			
								870.6						N ₆₀		ID		(tsf)		GR CS FS SI CL LL PL PI WC																							
10.0" ASPHALT (DRILLERS DESCRIPTION)								869.8		1		40		17		SS-1		-		-		-		1		A-2-4 (V)																	
										2		11		30		-		-		-		-		-		-		-															
MEDIUM DENSE, GRAY, STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, DAMP								867.3		3																																	
										4		2		14		44		SS-2		4.25		13		14		15		36		22		25		16		9		14		A-4a (5)			
HARD, BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL, DAMP										5																																	
										6		5		15		47		6		SS-3		4.25		-		-		-		-		-		-		-		13		A-4a (V)			
HARD, BROWN BECOMING GRAY, SANDY SILT, SOME CLAY, TRACE TO LITTLE GRAVEL AND STONE FRAGMENTS, GLACIAL TILL, DAMP ST-4 NO RECOVERY								863.1		7																																	
										8						0		ST-4		-		-		-		-		-		-		-		-		-							
										9																																	
										10																																	
										11		38		67		SS-5		4.50		4		9		16		40		31		25		16		9		11		A-4a (7)					
										12		15		17																													
										13																																	
										14		10		11		32		39		SS-6		4.50		-		-		-		-		-		-		-		-		11		A-4a (V)	
										15																																	
										16																																	
										17																																	
										18						71		ST-7		4.50		7		9		15		40		29		24		15		9		11		A-4a (7)			
										19		5		36		56		SS-8		4.50		-		-		-		-		-		-		-		11		A-4a (V)					
										20		14		16																													
										21																																	
										22		7		11		30		33		SS-9		4.50		-		-		-		-		-		-		-		-		11		A-4a (V)	
										23																																	
										24		5		12		31		50		SS-10		4.50		-		-		-		-		-		-		-		-		11		A-4a (V)	
										25		12		14																													
										26		17		19		47		39		SS-11		4.50		-		-		-		-		-		-		-		-		11		A-4a (V)	
										27		21																															
										28																																	
										29		15		19		46		44		SS-12		4.50		4		10		18		40		28		22		14		8		11		A-4a (7)	
										30																																	
VERY DENSE, GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, DAMP TO MOIST @31.0'; ENCOUNTERED 4.0' SAND HEAVE								840.1		31																																	
										32		35		24		63		33		SS-13		-		-		-		-		-		-		-		-		-		9		A-2-4 (V)	
										33																																	
										34		33		21		51		28		SS-14		-		-		-		-		-		-		-		-		-		12		A-2-4 (V)	
										35																																	
										36																																	
										37																																	
										38																																	
HARD, GRAY, SANDY SILT, LITTLE CLAY, TRACE GRAVEL, CONTAINS INTERBEDDED A-3A SEAMS, MOIST TO DAMP										39		1		15		37		39		SS-15		4.25		3		18		24		35		20		21		13		8		14		A-4a (4)	
										40		1		16																													
										41																																	
										42																																	
										43																																	
										44		3		17		43		44		SS-16		4.00		5		28		25		27		15		20		14		6		14		A-4a (1)	
VERY DENSE, GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, LITTLE CLAY, MOIST								823.8		45																																	
										46																																	
										47																																	
										48																																	
LIMESTONE, LIGHT TAN AND BROWN, SLIGHTLY WEATHERED, STRONG.								817.6		49		22		19		56		50		SS-17		-		-		-		-		-		-		-		14		A-2-4 (V)					
										50		19		28																													
										51																																	
										52																																	
										53																																	
										54		50/5"		-		60		SS-18		-		-		-		-		-		-		-		-		-		-		12		Rock (V)	
										55																																	
										56																																	
										57																																	
										58		50/4"		-		50		SS-19		-		-		-		-		-		-		-		-		-		-		8		Rock (V)	
										59																																	

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 1/21/26 08:15 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2024 ARCHIVE\CEMETER Y ROAD\GINT FILES\CEMETER Y RD 81224.GPJ

DESIGN AGENCY
NEAS
National Engineering & Architectural Services Inc.
2800 CORPORATE
EXCHANGE DR,
SUITE 240
COLUMBUS, OH,
43231
TEL:614.714.0299
WWW.NEASINC.COM

DESIGNER
PREVIEWER
BDA 07/12/26

PROJECT ID
120103

SUBSET	TOTAL
19	26

SHEET	TOTAL
P.0	0

GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH
B-008-0-23

FRA-CEMETERY ROAD

MODEL: Sheet_Survfit PAPER SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:34:55 PM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PR61865 PRODUCT: OpenRoads Designer 10.12.02.4
 pw:\\bn-pw.bentley.com:bn-pw-01\Documents\PR61865\400-Engineering\Geotechnical\Sheets\120103_2L010.dgn

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 1/21/26 08:15 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\ARCHIVE BY YEAR\2024 ARCHIVE\CEMETERY ROAD\GINT FILES\CEMETERY RD 81224.GPJ

PID: _____		SFN: _____		PROJECT: _____		CEMETERY RD		STATION / OFFSET: 27+88.19' LT.		START: 9/19/24				END: 10/1/24				PG 2 OF 2		B-008-0-23																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
MATERIAL DESCRIPTION AND NOTES				ELEV.		DEPTHS		SPT/ RQD		REC SAMPLE N ₆₀ (%)		HP (tsf)		GRADATION (%)				ATTERBERG		WC		ODOT CLASS (G)		BACK FILL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
LIMESTONE, LIGHT TAN AND BROWN, SLIGHTLY WEATHERED, STRONG. (continued)				810.6		-		-		-		-		GR				FS				SI				CL				LL				PL				PI				WC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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DESIGN AGENCY  National Engineering & Architectural Services Inc.	
2800 CORPORATE EXCHANGE DR, SUITE 240 COLUMBUS, OH, 43231 TEL: 614.714.0299 WWW.NEASINC.COM	
DESIGNER	
RS	
REVIEWER	
BPA 07/13/26	
PROJECT ID	
120103	
SUBSET	TOTAL
20	26
SHEET	TOTAL
P.O	0

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:35:23 PM PLTDRV: OHDOT_PDF.plt USER: WORKSPACE: OHDOT Pen.tbl PENTBL: OHDOT_PDF.plt PLOTSET: PR61865 PRODUCT: OpenRoads Designer 10.12.02.4
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[illegible]

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:45 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CHEMTERRY ROAD\GINT FILES\CHEMTERRY RD 81224.GPJ

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER: 34x22 (in.) DATE: 7/10/2026 TIME: 5:35:59 PM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PRG1865 PRODUCT: OpenRoadsDesigner 10.12.02.4

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PID:	SFN:	PROJECT:	CEMETERY RD	STATION / OFFSET: 26+87, 11' RT.		START: 8/6/24				END: 8/6/24				PG 2 OF 2	B-009-0-23											
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)				ATTERBERG				WC	ODOT CLASS (g)	SO4 ppm	BACK FILL				
											GR	CS	FS	SI	CL	LL	PL	PI								
VERY DENSE, GRAY, GRAVEL WITH SAND LITTLE SILT, TRACE CLAY, MOIST TO WET (continued)				810.3	— 61 — — 62 — — 63 — — 64 — — 65 — — 66 — — 67 — — 68 — — 69 — — 70 — — 71 — EOB	16	24	77	61	SS-19	-	-	-	-	-	-	-	-	-	-	-	-	-			
						28																				
												</														

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:45 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\IGNIT FILES\CEMETERY RD_81224.GPJ

NOTES: GROUNDWATER ENCOUNTERED AT 40.0' DURING DRILLING. HOLE DID NOT CAVE. BORING OFFSET 10.0" WEST.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 5 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

DESIGN AGENCY


NEAS
Neas Engineering & Environmental Services, Inc.

2800 CORPORATE EXCHANGE DR,
SUITE 240
COLUMBUS, OH,
43231
TEL: 614.714.0299
WWW.NEASINC.COM

DESIGNER

RS

REVIEWER

BPA 07/13/26

PROJECT ID

120103

SUBSET

22

TOTAL

26

SHEET

P.0

TOTAL

0

GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH
B-009-0-23 (CONTINUED)

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:36:36 PM PLTDRV: OHDOT_PDF.plt PLOT: OHDOT Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PR61865 PRODUCT: OpenRoads Designer 10.12.02.4
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[illegible]

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:45 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\GINT FILES\CEMETERY RD 81224.GPJ

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER: 34x22 (in.) DATE: 7/10/2026 TIME: 5:37:14 PM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PRG1865 PRODUCT: OpenRoadsDesigner 10.12.02.4

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PID:	SFN:	PROJECT:	CEMETERY RD	STATION / OFFSET: 25+99, 15' RT.				START: 7/30/24				END: 7/31/24				PG 2 OF 2	B-010-0-23						
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)				ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL		
DENSE TO VERY DENSE, GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND LITTLE SILT, TRACE CLAY, MOIST (continued) @60.0': RIG CHATTER, POSSIBLE ENCOUNTER WITH BOULDER/COBBLE, @61.5': ENCOUNTERED 14" SAND HEAVE		814.3		61	3	10	34	78	SS-19	-	-	-	-	-	-	-	-	-	12	A-1-b (V)	-		
				62		13																	
				63																			
				64																			
				65																			
				66																			
				67																			
				68																			
				69																			
				70																			
				71																			
MEDIUM DENSE, GRAY, COARSE AND FINE SAND LITTLE SILT, TRACE CLAY, TRACE GRAVEL, MOIST		806.0		72																			
				73																			
				74																			
				75																			
				76																			
				77																			
				78																			
				79																			
				80																			
				81																			
				82																			
VERY DENSE, GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND LITTLE SILT, TRACE CLAY, WET TO MOIST		801.0		83																			
				84																			
				85																			
				86																			
				87																			
				88																			
				89																			
				90																			
				91																			
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EOB																							

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:45 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\GINT FILES\CEMETERY RD_81224.GPJ

NOTES: GROUNDWATER ENCOUNTERED AT 15.0' DURING DRILLING. HOLE DID NOT CAVE.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 5 BAGS HOLE PLUG; SHOVELED SOIL CUTTINGS

DESIGN AGENCY


NEAS
Neas Engineering & Environmental Services, Inc.

2800 CORPORATE
EXCHANGE DR,
SUITE 240
COLUMBUS, OH,
43231
TEL: 614.714.0299
WWW.NEASINC.COM

DESIGNER
RS

REVIEWER
BPA 07/13/26

PROJECT ID
120103

SUBSET TOTAL
24 26

SHEET TOTAL
P.0 0

GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH
B-010-0-23 (CONTINUED)

FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt PAPER SIZE: 34x22 (in.) DATE: 7/10/2026 TIME: 5:37:47 PM PLTDRV: OHDOT_PDF.pltGPG PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PR61865 PRODUCT: OpenRoads Designer 10.12.02.4
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PROJECT: CEMETERY RD		DRILLING FIRM / OPERATOR: NEAS INC. / RW		DRILL RIG: CME 55TB (NEW)		STATION / OFFSET: 18+64.7' RT.		EXPLORATION ID	
TYPE: CULVERT		SAMPLING FIRM / LOGGER: NEAS INC. / NS		HAMMER: CME AUTOMATIC		ALIGNMENT: SHARED-USE PATH		B-012-0-23	
PID: SFN:		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 7/30/24		ELEVATION: 872.0 (MSL) EOB: 51.5 ft.		PAGE	
START: 8/6/24 END: 8/6/24		SPT		ENERGY RATIO (%): 89		LAT / LONG: 40.032449, -83.124700		1 OF 1	
MATERIAL DESCRIPTION AND NOTES		ELEV.		SPT/ RQD		GRADATION (%)		ATTERBERG	
6" TOPSOIL (DRILLERS DESCRIPTION) HARD, BROWN AND ORANGISH BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, IRON STAINING, DAMP		872.0		N ₆₀		GR CS FS SI CL LL PL PI WC		ODOT CLASS (G) EOB	
		871.5							
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, LITTLE SILT, TRACE GRAVEL, TRACE CLAY, MOIST		867.5		3 6 8		4.50 3 7 14 46 30 34 20 14		A-6a (10) -	
				3 6 9		- - - - - - - - - -		A-3a (V) 20	
VERY STIFF, BROWN BECOMING GRAY, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, SS-3 CONTAINS TRACE IRON STAINING, DAMP		865.0		2 2 3		3.00 15 15 18 37 15 21 16 5		A-4a (3) -	
				5 6 10		- - - - - - - - - -		A-4a (V) -	
DENSE, GRAY, COARSE AND FINE SAND, LITTLE SILT, TRACE GRAVEL, TRACE CLAY, MOIST		860.0		7 10 16		- - - - - - - - - -		A-3a (V) -	
				9 12 15		1.75 12 9 17 37 25 24 15 9		A-4a (5) -	
STIFF TO HARD, GRAY, SANDY SILT, SOME CLAY, TRACE TO LITTLE GRAVEL, DAMP		857.5		3 6 9		3.75 - - - - - - - - - -		A-4a (V) -	
				2 6 8		4.50 - - - - - - - - - -		A-4a (V) -	
				6 8 10		4.50 10 8 16 39 27 25 15 10		A-4a (6) -	
				5 8 10		- - - - - - - - - -		A-4a (V) -	
				7 9 12		4.50 - - - - - - - - - -		A-4a (V) -	
				6 10 13		4.50 - - - - - - - - - -		A-4a (V) -	
				6 9 12		4.50 - - - - - - - - - -		A-4a (V) -	
				6 10 15		2.50 - - - - - - - - - -		A-4a (V) -	
		828.7		17 28 31		4.00 - - - - - - - - - -		A-4a (V) -	
VERY DENSE, GRAY, GRAVEL WITH SAND TRACE SILT, TRACE CLAY, MOIST TO WTE				3 9 30		- 40 29 20 8 3 NP NP		A-1-b (0) -	
		820.5		5 10 30		- - - - - - - - - -		A-1-b (V) -	

STANDARD ODOT LOG W/ SULFATES (11 X 17) - OH DOT.GDT - 10/6/24 08:45 - X:\ACTIVE PROJECTS\ACTIVE SOIL PROJECTS\CEMETERY ROAD\GINT FILES\CEMETERY RD 81224.GPJ

NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE CAVED-IN AT 48.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 1 BAG HOLE PLUG; SHOVELED SOIL CUTTINGS

DESIGN AGENCY
NEAS
National Engineering & Architectural Services Inc.
2800 CORPORATE
EXCHANGE DR,
SUITE 240
COLUMBUS, OH,
43231
TEL:614.714.0299
WWW.NEASINC.COM

DESIGNER

RS

REVIEWER

BPA 07/13/26

PROJECT ID

120103

SUBSET	TOTAL
--------	-------

25 | 2

25	2
26	2

SHEET TOTAL

P.O	
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FRA-CEMETERY ROAD

MODEL: Sheet_SurvFt_PAPERSize: 34x22 (in.) DATE: 7/10/2026 TIME: 5:38:22 PM PLTDRV: OHDOT_PDF.pltctg PENITBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: PRG1865 PRODUCT: OpenRoadsDesigner.10.12.02.4
pw:\bn-pw.bentley.com:bn-pw-01\Documents\PRG1865\400-Engineering\Geotechnical\Sheets\120103_ZL016.dgn

PROJECT: CEMETERY RD			DRILLING FIRM / OPERATOR: NEAS INC. / RW			DRILL RIG: CME 55TB (NEW)			STATION / OFFSET: 17+85.4' LT.			EXPLORATION ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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PID: SFN:			DRILLING METHOD: 3.25" HSA			CALIBRATION DATE: 7/30/24			ELEVATION: 871.8 (MSL) EOB: 50.0 ft.			PAGE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
START: 8/4/24 END: 8/4/24			SAMPLING METHOD: SPT			ENERGY RATIO (%): 89			LAT / LONG: 40.032289, -83.124902			1 OF 1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
MATERIAL DESCRIPTION AND NOTES			ELEV.			SPT/ RQD			N ₆₀			REC SAMPLE ID			HP (tsf)			GR			CS			FS			SI			CL			LL			PI			WC			ODOT CLASS (gi)			SO4 ppm			BACK FILL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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NOTES: GROUNDWATER NOT ENCOUNTERED DURING DRILLING. HOLE CAVED-IN AT 44.0'.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: POURED 1 BAG HOLE PLUG; SHOVELED SOIL CUTTINGS

DESIGN AGENCY


2800 CORPORATE
EXCHANGE DR,
SUITE 240
COLUMBUS, OH,
43231
TEL: 614.714.0299
WWW.NEASINC.COM

DESIGNER

RS

REVIEWER

BPA 07/13/26

PROJECT ID

120103

SUBSET

26

TOTAL

26

SHEET

P.0

TOTAL

0

GEOTECHNICAL PROFILE - ROADWAY
SHARED-USE PATH
B-013-0-23