

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF REPAIRING A LANDSLIDE UTILIZING A 446 FT DRILLED SHAFT RETAINING WALL AND DUMPED ROCK FILL.

HISTORIC RECORDS

NO HISTORICAL GEOTECHNICAL RECORDS WERE FOUND FOR THIS PROJECT. HISTORICAL DOCUMENTATION FOR SR7 INDICATES THAT ACTIVE SLOPE INSTABILITY HAS BEEN PRESENT THROUGHOUT THE AREA PRIOR TO THE 1930'S.

GEOLOGY

THE PROJECT IS LOCATED WITHIN THE NON-GLACIATED MARIETTA PLATEAU PHYSIOGRAPHIC REGION WHICH IS CHARACTERIZED AS A HIGH RELIEF DISSECTED PLATEAU. THIN RESIDUAL SOILS ARE LOCATED ALONG THE RIDGE TOPS AND HILLSIDES, AND THIN TO THICK COLLUVIAL SOILS ARE LOCATED AT THE BASE OF THE HILLS. ALONG MAJOR STREAM VALLEYS LACUSTRINE DEPOSITS WITH OUTWASH SOILS ARE PRESENT. THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) INTERACTIVE GEOLOGIC MAP INDICATES THAT THE MAJORITY OF THE PROJECT AREA IS COMPRISED OF ALLUVIAL SOILS, ASSOCIATED WITH THE OHIO RIVER VALLEY, AT THE GROUND SURFACE. THE OVERBURDEN SOILS ARE UNDERLAIN BY PENNSYLVANIAN-AGED SHALE, SILTSTONE, SANDSTONE, CONGLOMERATE, AND SUBORDINATE AMOUNTS OF LIMESTONE, CLAY, FLINT, AND COAL FROM THE CONEMAUGH GROUP.

RECONNAISSANCE

INITIAL FIELD RECONNAISSANCE WAS COMPLETED BY DISTRICT PERSONNEL ON JULY 12, 2021. THE ROADWAY WAS NOTED AS BEING PATCHED AND WAVY. CRACKING WAS NOTED WITHIN THE PAVEMENT INDICATING A HEAD SCARP DUE TO SLOPE INSTABILITY BELOW THE ROADWAY. AT THE WEST END OF THE PAVEMENT PATCH AND EXTENDING FURTHER WEST DUMP ROCK PLACED FOR RIVERBANK STABILIZATION IS PRESENT. AT THE EAST END OF THE PAVEMENT PATCH, A CONCRETE CAP IS PRESENT BEING SUPPORTED BY STEEL PILES. THE BASE OF THE CAP HAS BEEN EXPOSED AT THE WESTERN END ALLOWING FOR THE PILES TO BE VISIBLE. A PAVED DRIVEWAY IS PRESENT WITHIN THE AREA OF THE PAVEMENT PATCH LEADING TO A GRASSY FIELD BELOW THE ROADWAY. THE EASTERN END OF THE PROJECT HAS A STEEP, SHORT EMBANKMENT SUPPORTING THE ROADWAY. ABOVE THE ROADWAY IS A GENTLY RISING GRASSY HILLSIDE TRANSITIONING INTO A STEEPER WOODED SLOPE. THE RIPARIAN CORRIDOR AT THE EDGE OF THE OHIO RIVER IS WOODED. GENERALLY, THE SURROUNDING LAND USE IS FALLOW, GRASSY, AGRICULTURAL LAND.

SUBSURFACE EXPLORATION

MULTIPLE PHASES WERE PERFORMED FOR THE GEOTECHNICAL EXPLORATION. INITIALLY FOUR (4) BORINGS, B-001-0-21 THROUGH B-004-0-21, WERE COMPLETED BETWEEN AUGUST 3 AND 19, 2021, UTILIZING A TRUCK MOUNTED CME 55 ROTARY DRILL, USING 3 1/4-INCH I.D. HOLLOW STEM AUGERS. AN ADDITIONAL BORING, B-003-1-22, WAS COMPLETED BETWEEN MAY 31 AND JUNE 7, 2022, UTILIZING A TRACK MOUNTED CME 850R, USING 3 1/4-INCH I.D. HOLLOW STEM AUGERS. AUGERS WERE ADVANCED THROUGH THE OVERBURDEN SOILS INTO WEATHERED BEDROCK WITH DISTURBED SAMPLES COLLECTED IN ACCORDANCE WITH THE STANDARD PENETRATION TEST (AASHTO T206) AT CONTINUOUS AND 2.5-FOOT INTERVALS. THE HAMMER SYSTEMS USED WERE CALIBRATED ON APRIL 15, 2020, WITH AN AVERAGE DRILL ROD ENERGY RATIO (ER) OF 84% FOR THE CME 55 AND ON APRIL 19, 2021, WITH THE ER CAPPED AT 90% FOR THE CME 850 AS PER SGE 404.3. THE BORINGS WERE ADVANCED INTO BEDROCK AND SAMPLED (AASHTO T225) USING AN N SERIES WIRELINE CORE BARREL, WATER METHOD.

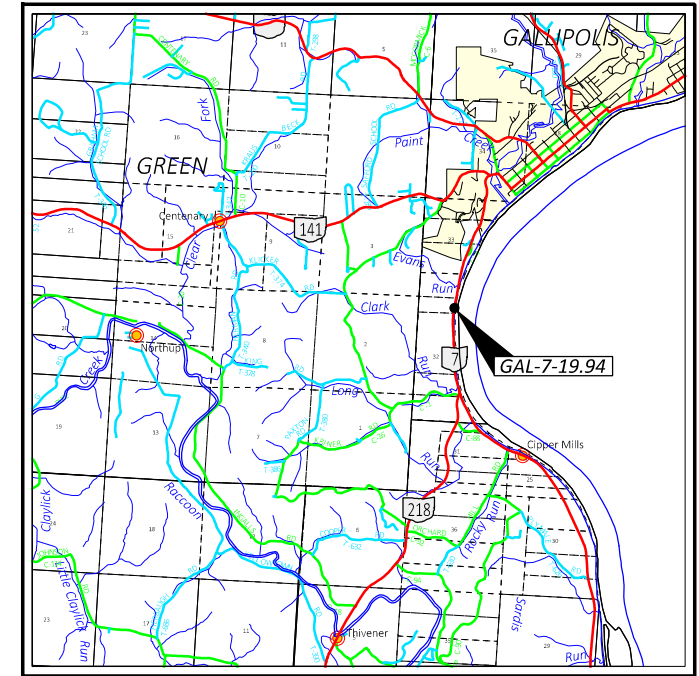
AN ELECTRICAL RESISTIVITY IMAGING (ER) SURVEY WAS COMPLETED WITHIN THE VICINITY OF THE CONCRETE CAP AS AN ATTEMPT TO DELINEATE THE EXTENT OF THE CAP. A SECOND ER SURVEY WAS CONDUCTED TO HELP DETERMINE THE LOCATION OF A CULVERT AND THE CULVERT OUTLET WITHIN THE PROJECT AREA. THE ER DATA WAS COLLECTED WITH AN ADVANCED GEOSCIENCES INC. (AGI) SUPERSTING R8 CONTROL UNIT. FOR THE FIRST ER SURVEY, 34 ELECTRODES WERE SPACED APPROXIMATELY 5 FEET APART, WHILE THE SECOND SURVEY UTILIZED 24 ELECTRODES SPACED APPROXIMATELY 5 FEET APART. THE ELECTRODES WERE USED TO MEASURE THE POTENTIAL FIELD WITH DIPOLE-DIPOLE AND STRONG GRADIENT ARRAYS. THE DATA WAS PROCESSED, AND SURFACE ELEVATION CORRECTED USING AGI'S EARTHIMAGER 2D SOFTWARE.

EXPLORATION FINDINGS

BORINGS B-001-0-21 THROUGH B-004-0-21 WERE COMPLETED WITHIN THE EXISTING ROADWAY ENCOUNTERING 12 TO 18-INCHES OF ASPHALT UNDERLAIN BY 8 TO 10-INCHES OF CONCRETE. BENEATH THE SURFACE MATERIALS THE BORINGS ENCOUNTERED PREDOMINANTLY COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a), SILT (A-4b), SILT AND CLAY (A-6a), SILTY CLAY (A-6b), AND CLAY (A-7-6) RANGING FROM VERY SOFT TO HARD IN CONSISTENCY AND DAMP TO WET IN CONDITION. MODERATELY ORGANIC SOILS WERE ENCOUNTERED IN B-001-0-21 BETWEEN ELEVATIONS (EL.) 547.8 AND 542.8 FEET (FT) AND WITHIN B-003-0-21 BETWEEN EL. 546.0 AND 544.5 FT. ADDITIONALLY, NON-COHESIVE SOILS WERE ENCOUNTERED WITHIN ISOLATED AREAS WITHIN THESE BORINGS. MEDIUM DENSE SILT (A-4b) WAS ENCOUNTERED BETWEEN EL. 529.1 AND 522.8 FT IN WET CONDITION WITHIN B-001-0-21. WITHIN B-002-0-21 VERY DENSE STONE FRAGMENTS WITH SAND AND SILT (A-2-4) AND LOOSE COARSE AND FINE SAND (A-3a) WERE ENCOUNTERED BETWEEN EL. 533.1 AND 531.3 FT AND 525.3 AND 523.8 FT, RESPECTIVELY. BEDROCK WAS ENCOUNTERED IN ALL FOUR BORINGS BETWEEN EL. 517.8 AND 529.5 FT WHICH WAS SLIGHTLY VARIABLE, BUT, GENERALLY, RAISED TO THE EAST. THE FIRST ENCOUNTERED BEDROCK CONSISTED OF SANDSTONE WHICH WAS TYPICALLY HIGHLY TO MODERATELY WEATHERED AND WEAK TO SLIGHTLY STRONG. B-003-0-21 FIRST ENCOUNTERED A MODERATELY WEATHERED, VERY WEAK SHALE INSTEAD OF SANDSTONE. B-004-0-21 ENCOUNTERED A SILTSTONE LAYER BENEATH THE SANDSTONE, WHICH WAS MODERATELY WEATHERED, SLIGHTLY STRONG, AND CONTAINED CLAY SEAMS. CLAYSTONE WAS ENCOUNTERED IN ALL FOUR BORINGS BETWEEN EL. 515.3 AND 520.4 FT WITH A SLIGHTLY VARIABLE SURFACE. THIS STRATUM WAS TYPICALLY MODERATELY WEATHERED AND VERY WEAK. UNCONFINED COMPRESSIVE STRENGTH TESTING RESULTS RANGED FROM 27 TO 33 AND FROM 88 TO 338 PSI WITH CONFINING PRESSURE ADDED. ALL BORINGS WERE TERMINATED WITHIN CLAYSTONE. B-001-0-21 AND B-004-0-21 WERE REPORTED AS BEING DRY PRIOR TO INTRODUCTION OF CORE WATER. B-002-0-21 AND B-003-0-21 ENCOUNTERED FREE WATER WHILE DRILLING AT EL. 525.3 AND 527.0 FT., RESPECTIVELY WITH B-002-0-21 HAVING A WATER LEVEL AT COMPLETION, INCLUDING CORE WATER, AT EL. 538.6 FT.

LEGEND		ODOT CLASS	CLASSIFIED MECH./VISUAL	
DESCRIPTION				
	STONE FRAGMENTS WITH SAND AND SILT	A-2-4	1	1
	COARSE AND FINE SAND	A-3a	3	3
	SANDY SILT	A-4a	8	2
	SILT	A-4b	5	6
	SILT AND CLAY	A-6a	10	15
	SILTY CLAY	A-6b	9	18
	CLAY	A-7-6	5	11
	TOTAL		41	56
	BOULDERS	VISUAL		
	CLAYSTONE	VISUAL		
	SANDSTONE	VISUAL		
	SHALE	VISUAL		
	SILTSTONE	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.			
	INDICATES WATER AT COMPLETION.			
	INDICATES FREE WATER ELEVATION.			
	INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.			
	INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.			
	INDICATES UNIT WEIGHT OF ROCK.			
LOI	INDICATES ORGANIC CONTENT BY LOSS ON IGNITION, AASHTO T267.			
QU	INDICATES UNCONFINED COMPRESSION TEST, ASTM D7012. (ROCK)			
SS	INDICATES A SPLIT SPOON SAMPLE.			
NQ	"N" SERIES ROCK CORE BARREL OF "Q" WIRELINE BIT SIZE.			
NP	INDICATES A NON-PLASTIC SAMPLE.			
TR	INDICATES TOP OF ROCK ELEVATION.			

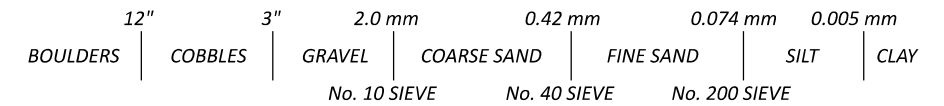
EXPLORATION FINDINGS CONTINUED, SEE SHEET 2.



LOCATION MAP
SCALE IN MILES



PARTICLE SIZE DEFINITIONS



INDEX OF SHEETS				
EXPLORATION NOTES CONT., SHEET 2.				
LOCATION FROM STA.	TO STA.	PLAN VIEW SHEET	PROFILE SHEET	CROSS SECTION SHEET
SR 7				
106+00	117+50	3	3	-
117+50	122+50	4	4	-
121+85.55		-	-	5
BORING LOGS & ROCK CORE REPORTS, SHEETS 6 - 16.				
INCLINOMETER AND ER LINES DATA, SHEET 17.				

RECON. - AM 07/12/21
 DRILLING - KAM 08/03/21 - 08/11/21
 AMJ 08/11/21 - 08/19/21
 DML 05/31/22 - 06/07/22
 DRAWN - AJC 08/23/24
 REVIEWED - SAT 08/23/24

GAL-7-19.94

MODEL: Sheet PAPER: 17x11 (in.) DATE: 9/26/2024 TIME: 12:40:08 PM USER: wiseman
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GEOTECHNICAL PROFILE - LANDSLIDE

DESIGN AGENCY

 DESIGNER
 AJC
 REVIEWER
 SAT 08/23/24
 PROJECT ID
 115533
 SUBSET TOTAL
 1 17
 SHEET TOTAL
 P.32 0

EXPLORATION FINDINGS (CONT.)

BORINGS B-001-0-21 THROUGH B-004-0-21 WERE COMPLETED WITHIN THE EXISTING ROADWAY ENCOUNTERING 12 TO 18-INCHES OF ASPHALT UNDERLAIN BY 8 TO 10-INCHES OF CONCRETE. BENEATH THE SURFACE MATERIALS THE BORINGS ENCOUNTERED PREDOMINANTLY COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a), SILT (A-4b), SILT AND CLAY (A-6a), SILTY CLAY (A-6b), AND CLAY (A-7-6) RANGING FROM VERY SOFT TO HARD IN CONSISTENCY AND DAMP TO WET IN CONDITION. MODERATELY ORGANIC SOILS WERE ENCOUNTERED IN B-001-0-21 BETWEEN ELEVATIONS (EL.) 547.8 AND 542.8 FEET (FT) AND WITHIN B-003-0-21 BETWEEN EL. 546.0 AND 544.5 FT. ADDITIONALLY, NON-COHESIVE SOILS WERE ENCOUNTERED WITHIN ISOLATED AREAS WITHIN THESE BORINGS. MEDIUM DENSE SILT (A-4b) WAS ENCOUNTERED BETWEEN EL. 529.1 AND 522.8 FT IN WET CONDITION WITHIN B-001-0-21. WITHIN B-002-0-21 VERY DENSE STONE FRAGMENTS WITH SAND AND SILT (A-2-4) AND LOOSE COARSE AND FINE SAND (A-3a) WERE ENCOUNTERED BETWEEN EL. 533.1 AND 531.3 FT AND 525.3 AND 523.8 FT, RESPECTIVELY. BEDROCK WAS ENCOUNTERED IN ALL FOUR BORINGS BETWEEN EL. 517.8 AND 529.5 FT WHICH WAS SLIGHTLY VARIABLE, BUT, GENERALLY, RAISED TO THE EAST. THE FIRST ENCOUNTERED BEDROCK CONSISTED OF SANDSTONE WHICH WAS TYPICALLY HIGHLY TO MODERATELY WEATHERED AND WEAK TO SLIGHTLY STRONG. B-003-0-21 FIRST ENCOUNTERED A MODERATELY WEATHERED, VERY WEAK SHALE INSTEAD OF SANDSTONE. B-004-0-21 ENCOUNTERED A SILTSTONE LAYER BENEATH THE SANDSTONE, WHICH WAS MODERATELY WEATHERED, SLIGHTLY STRONG, AND CONTAINED CLAY SEAMS. CLAYSTONE WAS ENCOUNTERED IN ALL FOUR BORINGS BETWEEN EL. 515.3 AND 520.4 FT WITH A SLIGHTLY VARIABLE SURFACE. THIS STRATUM WAS TYPICALLY MODERATELY WEATHERED AND VERY WEAK. UNCONFINED COMPRESSIVE STRENGTH TESTING RESULTS RANGED FROM 27 TO 33 AND FROM 88 TO 338 PSI WITH CONFINING PRESSURE ADDED. ALL BORINGS WERE TERMINATED WITHIN CLAYSTONE. B-001-0-21 AND B-004-0-21 WERE REPORTED AS BEING DRY PRIOR TO INTRODUCTION OF CORE WATER. B-002-0-21 AND B-003-0-21 ENCOUNTERED FREE WATER WHILE DRILLING AT EL. 525.3 AND 527.0 FT., RESPECTIVELY WITH B-002-0-21 HAVING A WATER LEVEL AT COMPLETION, INCLUDING CORE WATER, AT EL. 538.6 FT.

BORING B-003-1-22 WAS COMPLETED BELOW THE ROADWAY, TOWARD THE RIVER, WITHIN THE GRASSY FIELD ENCOUNTERING 12-INCHES OF TOPSOIL UNDERLAIN BY COHESIVE SOILS CONSISTING OF SANDY SILT (A-4a) AND SILTY CLAY (A-6b) IN STIFF TO VERY STIFF CONSISTENCY AND DAMP CONDITION. MEDIUM DENSE SILT (A-4b) WAS ENCOUNTERED AT EL. 529.3 FT. UNDERLAIN BY VERY LOOSE COARSE AND FINE SAND (A-3a) WHICH CONTAINED ELEVATED HYDROSTATIC HEAD CONDITIONS RESULTING IN HEAVING SANDS THAT EXTENDED TO EL. 518.3 FT. SEVERELY WEATHERED CLAYSTONE BEDROCK WHICH WAS VERY WEAK TO WEAK WAS FIRST ENCOUNTERED AT EL. 514.8 FT. AND WAS SPLIT SPOON SAMPLED TO EL. 505.8 FT WHERE IT BECAME HIGHLY TO MODERATELY WEATHERED AND WAS CORED. COMPRESSIVE STRENGTH TEST RESULTS OF 14 AND 48 PSI WERE OBTAINED FROM REPRESENTATIVE SAMPLES. SANDSTONE WAS ENCOUNTERED AT EL. 489.3 FT. IN MODERATELY WEATHERED CONDITION AND STRONG WITH AN UNCONFINED COMPRESSIVE STRENGTH TEST RESULT OF 8,255 PSI INTO WHICH THE BORING WAS TERMINATED. UPON COMPLETION OF SAMPLING ACTIVITIES AN INCLINOMETER CASING WAS INSTALLED WITHIN THE BOREHOLE. READING OF THE INCLINOMETER INDICATES A FAILURE ZONE AROUND EL. 526 FT.

THE ER SURVEYS WERE COMPLETED BELOW THE ROADWAY IN AN ATTEMPT TO LOCATE THE EXTENT OF THE PREVIOUSLY INSTALLED STRUCTURE LOCATED AT THE EAST END OF THE PROJECT AND A CULVERT OUTLET WITHIN THE PROJECT AREA. BASED ON THE RESULTS OF THE FIRST ER LINE, IT DOES NOT APPEAR THAT THE CAP AND PILES EXTEND SOUTH BEYOND WHAT IS EXPOSED AT THE SURFACE. THE RESULTS OF THE SECOND ER LINE WERE ABLE TO DELINEATE THE OUTLET OF THE EXISTING CULVERT TO BE ROUGHLY 83.09 FT EAST OF STA.1071+05 S.R. 7 AT EL 424 FT.

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 JULY 2021.

AVAILABLE INFORMATION

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

BEDROCK TEST SUMMARY				
EXPLOR. ID	SAMPLE DEPTH	SAMPLE ELEVATION	LITHOLOGY	QU (psi)
B-001-0-21	41.6' - 42.0'	514.7' - 514.3'	CLAYSTONE	27
B-001-0-21	45.3' - 45.7'	511.0' - 510.6'	CLAYSTONE	185
B-001-0-21	55.0' - 55.4'	501.3' - 500.9'	CLAYSTONE	88
B-003-0-21	44.4' - 44.8'	513.6' - 513.2'	CLAYSTONE	33
B-003-0-21	45.0' - 45.4'	513.0' - 512.6'	CLAYSTONE	338
B-003-1-22	54.6' - 55.0'	497.7' - 497.3'	CLAYSTONE	48
B-003-1-22	57.4' - 57.8'	494.9' - 494.5'	CLAYSTONE	14
B-003-1-22	63.9' - 64.3'	488.4' - 488.0'	SANDSTONE	8,255

ORGANIC CONTENT BY LOSS ON IGNITION TEST				
EXPLOR. ID	SAMPLE ID	SAMPLE DEPTH	SAMPLE ELEVATION	LOI (%)
B-001-0-21	SS-4	8.50' - 10.00'	547.8' - 546.3'	4.2
B-001-0-21	SS-5	11.00' - 12.50'	545.3' - 543.8'	4.2
B-003-0-21	SS-7	12.00' - 13.50'	546.0' - 544.5'	6.2

DESIGN AGENCY



DESIGNER

AJC

REVIEWER

SAT 08/23/24

PROJECT ID

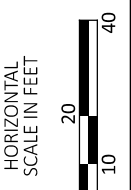
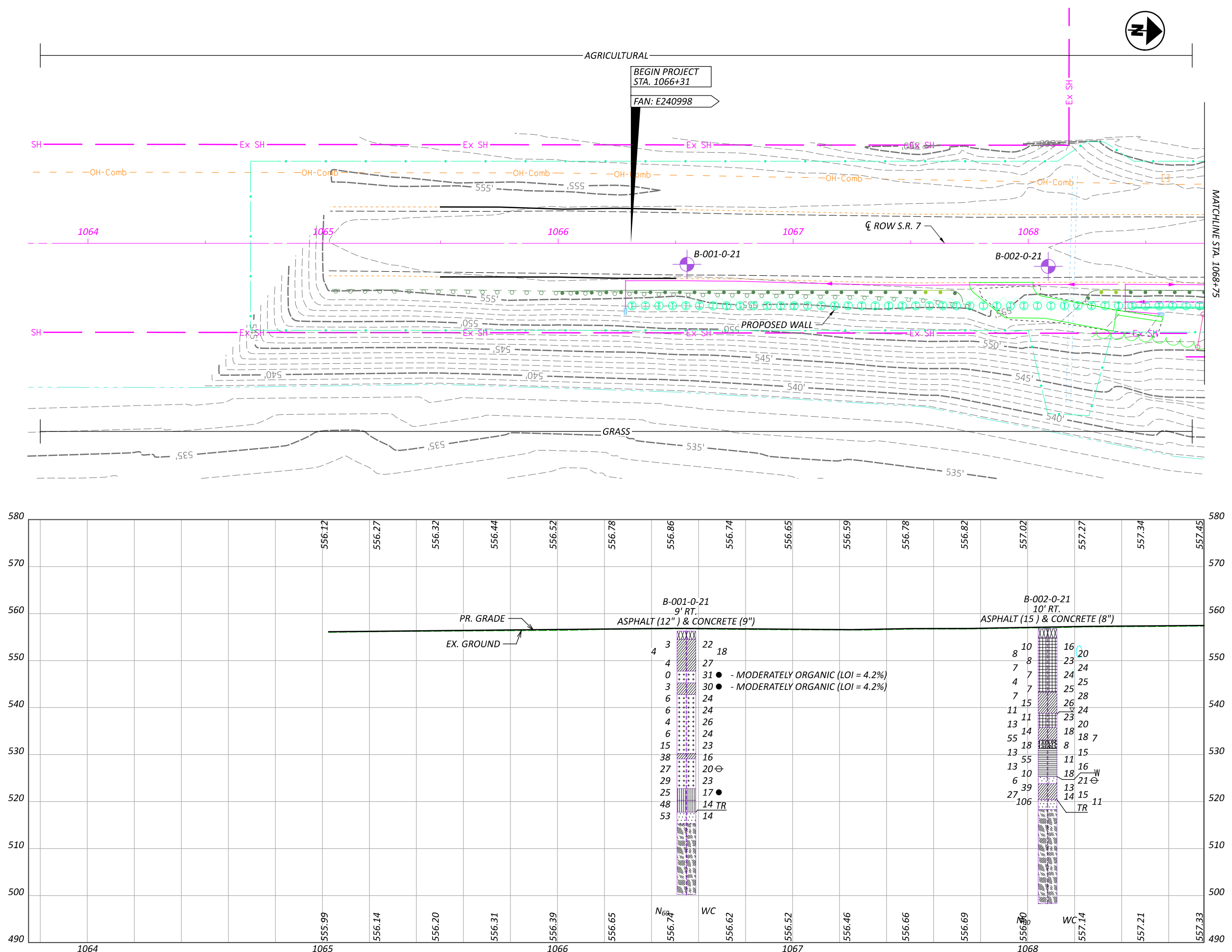
115533

SUBSET TOTAL

2 17

SHEET TOTAL

P.33 0



GEOTECHNICAL PROFILE - LANDSLIDE
 STA. 1063+75 TO STA. 1068+75 - S.R. 7

DESIGN AGENCY



DESIGNER

AJC

REVIEWER

SAT 08/23/24

PROJECT ID

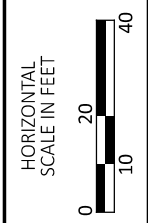
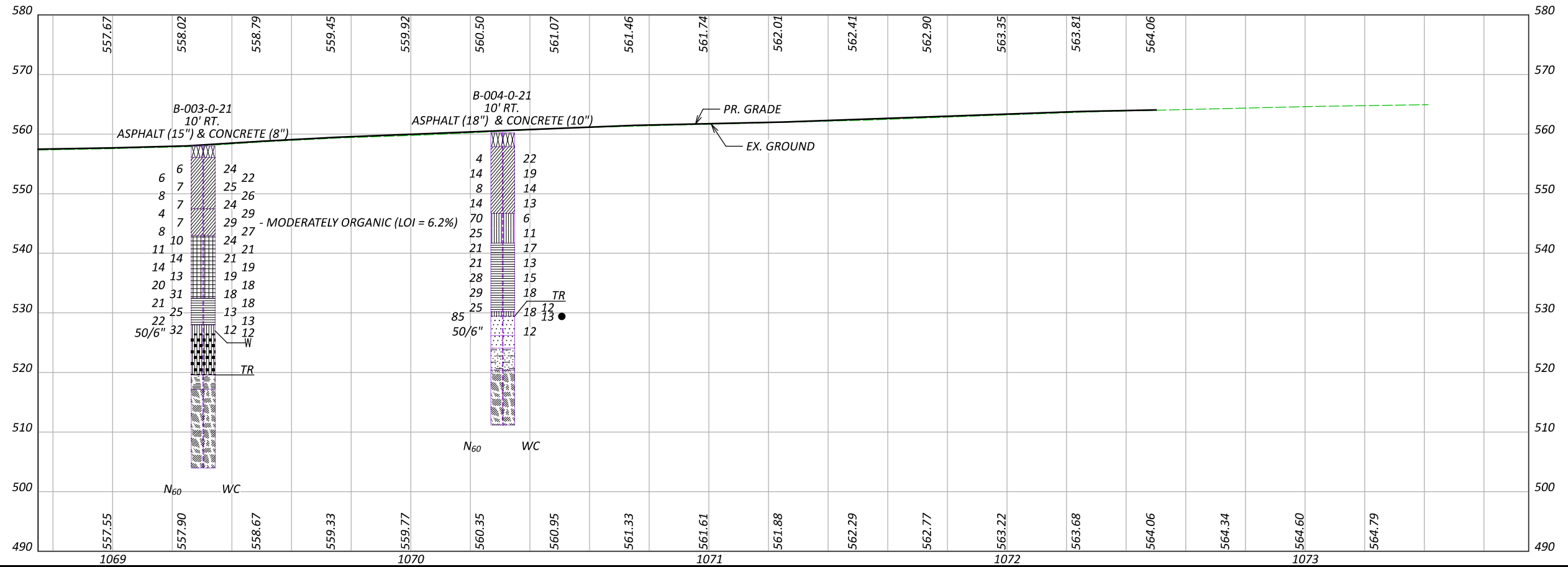
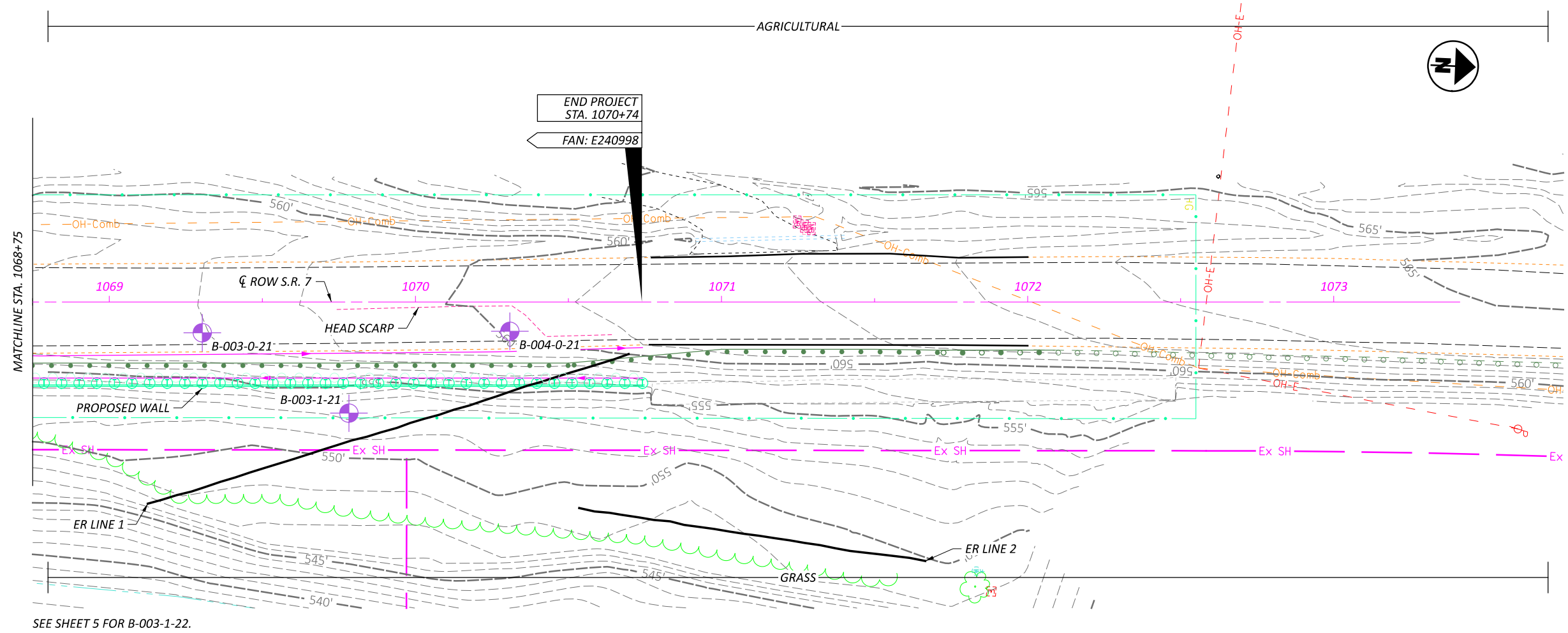
115533

SUBSET TOTAL

3 17

SHEET TOTAL

P.34 0



GEOTECHNICAL PROFILE - LANDSLIDE
 STA. 1068+75 TO STA. 1073+75 - S.R. 7

DESIGN AGENCY

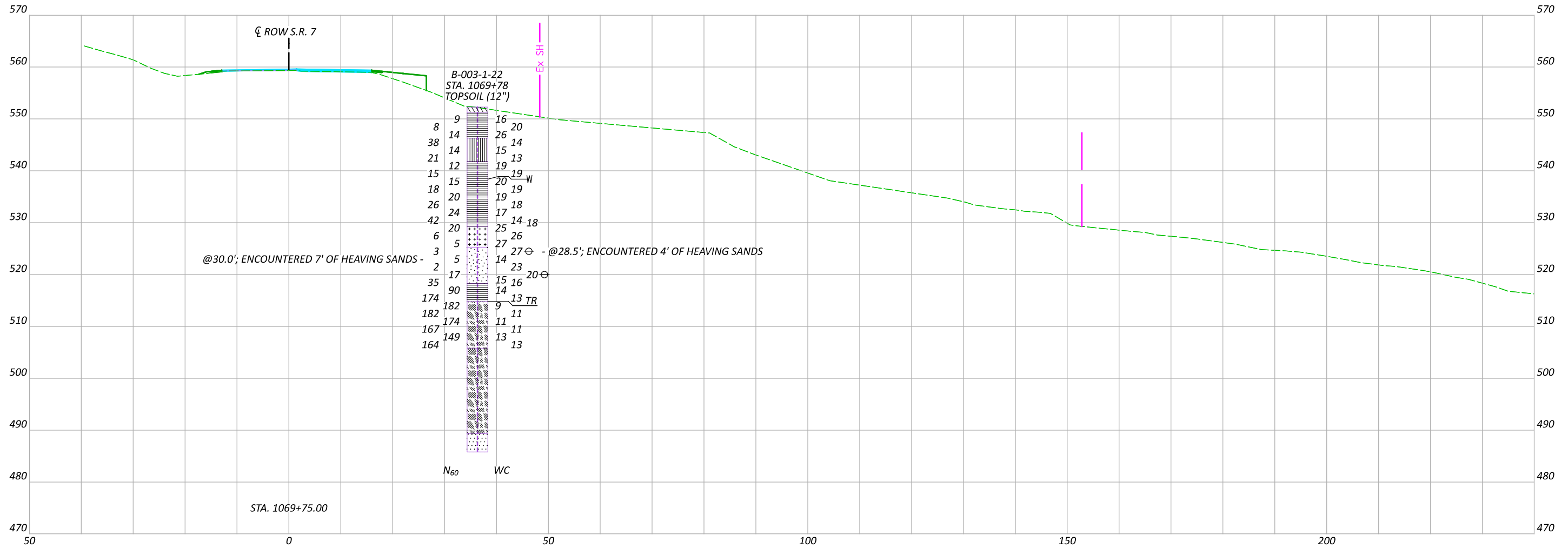
DESIGNER
 AIC

REVIEWER
 SAT 08/23/24

PROJECT ID
 115533

SUBSET	TOTAL
4	17

SHEET	TOTAL
P.35	0



GEOTECHNICAL PROFILE - LANDSLIDE
 CROSS SECTION STA. 1069+75 - S.R. 7

DESIGN AGENCY	
DESIGNER	
AJC	
REVIEWER	
SAT 08/23/24	
PROJECT ID	
115533	
SUBSET	TOTAL
5	17
SHEET	TOTAL
P.36	0


PROJECT: GAL-7-19.94	DRILLING FIRM / OPERATOR: ODOT / CAREY	DRILL RIG: CME 55 TRUCK	STATION / OFFSET: 1066+55.9' RT.	EXPLORATION ID
TYPE: LANDSLIDE	SAMPLING FIRM / LOGGER: ODOT / AJ	HAMMER: CME AUTOMATIC	ALIGNMENT: CL SR 7	B-001-0-21
PID: 115533 SFN:	DRILLING METHOD: 3.25" HSA / NQ2	CALIBRATION DATE: 4/15/20	ELEVATION: 556.3 (ft) EOB: 56.0 ft.	PAGE
START: 8/11/21 END: 8/19/21	SAMPLING METHOD: SPT / NQ2	ENERGY RATIO (%): 84	LAT / LONG: 38.781706, -82.222695	1 OF 1

MATERIAL DESCRIPTION AND NOTES

DEPTH (ft)	ELEV. (ft)	DESCRIPTION	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)							WC	BACK FILL	
								GR	CS	FS	SI	CL	LL	PL			PI
1	556.3	ASPHALT (12") & CONCRETE (9")															
2	554.5	SOFT, RED AND BROWN, SILT AND CLAY, LITTLE GRAVEL, LITTLE SAND, MOIST	0	3	44	SS-1	0.50	15	3	8	31	43	37	22	15	22	A-6a (10)
3			1														
4		@3.5'; DAMP	1	4	50	SS-2	0.50	-	-	-	-	-	-	-	-	18	A-6a (V)
5			2														
6		@6.0'; MOIST	0	4	50	SS-3	0.50	-	-	-	-	-	-	-	-	27	A-6a (V)
7			2														
8	547.8																
9		VERY SOFT, GRAY OXIDIZING TO BROWN, SILT, SOME CLAY, LITTLE SAND, MODERATELY ORGANIC (LOI = 4.2%), WET	0	0	94	SS-4	0.25	0	1	13	61	25	27	18	9	31	A-4b (8)
10			0														
11	545.3		0	3	78	SS-5	0.50	7	2	8	48	35	33	20	13	30	A-6a (9)
12		SOFT, GRAY OXIDIZING TO BROWN, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, MODERATELY ORGANIC (LOI = 4.2%), MOIST	0	2													
13			2														
14	542.8	MEDIUM STIFF, BROWN, SILT, SOME CLAY, TRACE SAND, MOIST	0	6	67	SS-6	0.50	-	-	-	-	-	-	-	-	24	A-4b (V)
15			2														
16			0	6	100	SS-7	0.50	0	0	2	70	28	29	21	8	24	A-4b (8)
17			2														
18																	
19		@18.5'; SOFT	1	4	100	SS-8	0.50	-	-	-	-	-	-	-	-	26	A-4b (V)
20			2														
21		@21.0'; VERY STIFF	1	6	100	SS-9	2.50	0	0	5	71	24	28	19	9	24	A-4b (8)
22			2														
23																	
24			2	15	100	SS-10	3.00	-	-	-	-	-	-	-	-	23	A-4b (V)
25			6														
26	530.3	HARD, RED AND GRAY, SILT AND CLAY, TRACE SAND, TRACE GRAVEL, DAMP	6	38	83	SS-11	4.50	3	0	3	38	56	37	23	14	16	A-6a (10)
27	529.1	MEDIUM DENSE, GRAY, SILT, "AND" SAND, LITTLE CLAY, WET	13														
28			14														
29			9	27	56	SS-12	-	0	10	29	50	11	NP	NP	NP	20	A-4b (5)
30			10														
31			5	29	50	SS-13	-	-	-	-	-	-	-	-	-	23	A-4b (V)
32			9														
33			12														
34	522.8	VERY STIFF, GRAY AND RED, SANDY SILT, LITTLE CLAY, TRACE GRAVEL, WET	4	25	78	SS-14	-	8	16	39	21	16	18	13	5	17	A-4a (0)
35			7														
36	520.3	VERY STIFF, BROWN AND GRAY, SANDY SILT, "AND" STONE FRAGMENTS, LITTLE CLAY, DAMP	8	48	89	SS-15	3.00	36	2	14	32	16	23	15	8	14	A-4a (3)
37			17														
38	517.8	SANDSTONE, BROWN AND GRAY, MODERATELY WEATHERED, WEAK, LAMINATED TO VERY THIN BEDDED, SLIGHTLY ARENACEOUS.	12	53	100	SS-16	4.50	-	-	-	-	-	-	-	-	14	Rock (V)
39			15														
40			23														
41	515.3	CLAYSTONE, RED WITH GRAY, MODERATELY WEATHERED, VERY WEAK, MEDIUM BEDDED, BLOCKY, GOOD, RQD 63%, REC 88%. @ 41.6' - 42.0'; $\gamma = 135$ pcf; $Q_u = 27$ psi	77		97	NQ2-1											CORE
42		@ 45.3' - 45.7'; $\gamma = 144$ pcf; $Q_u = 185$ psi, (ASTM 7012 METHOD C WITH CONFINING PRESSURE)															
43		@ 46.0'; GRAY															
44		@ 46.7'; RED WITH GRAY.															
45		@ 48.2'; HIGH ANGLE FRACTURE - SLICKENSIDED.															
46																	
47																	
48		@ 53.9'; HIGH ANGLE FRACTURE - SLICKENSIDED.															
49		@ 55.0' - 55.4'; $\gamma = 143$ pcf; $Q_u = 88$ psi, (ASTM 7012 METHOD C WITH CONFINING PRESSURE)	57		67	NQ2-2											CORE
50																	
51																	
52																	
53																	
54			55		100	NQ2-3											CORE
55																	
56	500.3	EOB															

NOTES: LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS. HOLE DRY BEFORE CORING.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 25 LB. BENTONITE CHIPS

DESIGN AGENCY

 DESIGNER
AIC
 REVIEWER
SAT 08/23/24
 PROJECT ID
115533
 SUBSET TOTAL
6 17
 SHEET TOTAL
P.37 0

GEOTECHNICAL PROFILE - LANDSLIDE BORING LOG FOR B-001-0-21

GAL-7-19.94

MODEL SHEET PAPER SIZE: 17x11 (in.) DATE: 9/26/2024 TIME: 12:40:47 PM USER: jwiseman
 pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01.Active Projects\District 10\Gallia\115533\400-Engineering\Geotechnical\Sheets\115533_YU002.dgn

PROJECT: GAL-7-19.94
 TYPE: LANDSLIDE
 PID: 115533 SFN:
 START: 8/9/21 END: 8/11/21

DRILLING FIRM / OPERATOR: ODOT / CAREY
 SAMPLING FIRM / LOGGER: ODOT / MCLEISH
 DRILLING METHOD: 3.25" HSA / NQ2
 SAMPLING METHOD: SPT / NQ2

DRILL RIG: CME 55 TRUCK
 HAMMER: CME AUTOMATIC
 CALIBRATION DATE: 4/15/20
 ENERGY RATIO (%): 84


STATION / OFFSET: 1068+09, 10' RT.
 ALIGNMENT: CL SR 7
 ELEVATION: 556.8 (ft) EOB: 58.5 ft.
 LAT / LONG: 38.782127, -82.222714

EXPLORATION ID
 B-002-0-21
 PAGE
 1 OF 1

MATERIAL DESCRIPTION AND NOTES

DEPTH (ft)	DEPTH (ft)	ELEV.	SPT / RQD	REC (%)	SAMPLE ID	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	WC	ODOT CLASS (GI)	BACK FILL
1	1	556.8														
2	2	554.9														
3	3															
4	4															
5	5															
6	6															
7	7															
8	8															
9	9															
10	10															
11	11															
12	12															
13	13															
14	14															
15	15															
16	16															
17	17															
18	18															
19	19															
20	20															
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36	36															
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40	40															
41	41															
42	42															
43	43															
44	44															
45	45															
46	46															
47	47															
48	48															
49	49															
50	50															
51	51															
52	52															
53	53															
54	54															
55	55															
56	56															
57	57															
58	58															
		498.3														

NOTES: LAT/LONG/ELEV FROM OGE HANDHELD GPS UNIT. HOLE COLLAPSED AT 30.9 FT AFTER PULLING AUGERS
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

DESIGN AGENCY

 DESIGNER
 AIC
 REVIEWER
 SAT 08/23/24
 PROJECT ID
 115533
 SUBSET TOTAL
 7 17
 SHEET TOTAL
 P.38 0

**GEOTECHNICAL PROFILE - LANDSLIDE
 BORING LOG FOR B-002-0-21**

STANDARD ODOT BORING LOG (11 X 17) - OH DOT GDT - 8/20/24 11:34 - X:\GINT\PROJ\PROJECTS\2021\COMPLET\FT600888.GPJ

GAL-7-19.94

MODEL SHEET PAPER SIZE: 17x11 (in.) DATE: 9/26/2024 TIME: 12:40:58 PM USER: wiseman
 pw:\ohiodot-pw\entley.com\ohiodot-pw-02\Documents\01_Active Projects\District 10\Galila\115533\400-Engineering\Geotechnical\Sheets\115533_YU003.dgn

PROJECT: GAL-7-19.94	DRILLING FIRM / OPERATOR: ODOT / CAREY	STATION / OFFSET: 1069+30, 10' RT.	EXPLORATION ID: B-003-0-21
TYPE: LANDSLIDE	SAMPLING FIRM / LOGGER: ODOT / MCLEISH	ALIGNMENT: CL SR 7	
PID: 115533 SFN:	DRILLING METHOD: 3.25" HSA / NQ2	ELEVATION: 558.0 (ft) EOB: 54.0 ft.	PAGE 1 OF 1
START: 8/4/21 END: 8/9/21	SAMPLING METHOD: SPT / NQ2	LAT / LONG: 38.782462, -82.222730	

DEPTH	ELEV.	MATERIAL DESCRIPTION AND NOTES	SPT/RQD	N ₆₀	REC SAMPLE ID (%)	HP (tsf)	GRADATION (%)							WC	ODOT CLASS (GI)	BACK FILL
							GR	CS	FS	SI	CL	LL	PL			
1	558.0	ASPHALT (15") & CONCRETE (8")														
2	556.1	MEDIUM STIFF, REDDISH BROWN, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL AND STONE FRAGMENTS, MOIST	2	6	28	0.50	6	3	12	31	48	35	20	15	24	A-6a (10)
3			1	6	44	0.50	-	-	-	-	-	-	-	-	22	A-6a (V)
4			2	7	50	0.50	-	-	-	-	-	-	-	-	25	A-6a (V)
5			2	8	56	1.50	2	2	6	45	45	33	19	14	26	A-6a (10)
6		@7.5': STIFF, REDDISH BROWN AND GRAYISH BROWN, TRACE SAND	1	7	100	1.50	-	-	-	-	-	-	-	-	24	A-6a (V)
7			2	7	100	1.50	-	-	-	-	-	-	-	-	24	A-6a (V)
8	547.5	SOFT, GRAYISH BROWN, SILT AND CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST	0	4	100	0.25	-	-	-	-	-	-	-	-	29	A-6a (V)
9		@12.0' - 13.5': MODERATELY ORGANIC (LOI = 6.2%)	1	4	100	0.25	-	-	-	-	-	-	-	-	29	A-6a (V)
10			2	7	89	0.25	1	3	11	43	42	36	21	15	29	A-6a (10)
11			0	7	89	0.25	-	-	-	-	-	-	-	-	29	A-6a (V)
12			2	8	22	0.25	-	-	-	-	-	-	-	-	27	A-6a (V)
13			2	8	22	0.25	-	-	-	-	-	-	-	-	27	A-6a (V)
14	543.0	MEDIUM STIFF, RED, CLAY, SOME SILT, TRACE SAND, TRACE STONE FRAGMENTS, MOIST	2	10	89	0.50	3	1	2	21	73	58	20	38	24	A-7-6 (20)
15			3	11	100	1.50	-	-	-	-	-	-	-	-	21	A-7-6 (V)
16			4	11	100	1.50	-	-	-	-	-	-	-	-	21	A-7-6 (V)
17			3	14	89	1.00	-	-	-	-	-	-	-	-	21	A-7-6 (V)
18			4	14	89	1.00	-	-	-	-	-	-	-	-	21	A-7-6 (V)
19		@19.5': DAMP	6	14	56	1.50	1	1	3	32	63	43	21	22	19	A-7-6 (13)
20			2	14	56	1.50	-	-	-	-	-	-	-	-	19	A-7-6 (V)
21			2	13	100	1.50	-	-	-	-	-	-	-	-	18	A-7-6 (V)
22			3	20	83	2.00	-	-	-	-	-	-	-	-	18	A-7-6 (V)
23		@22.5': VERY STIFF	5	31	56	2.50	-	-	-	-	-	-	-	-	18	A-7-6 (V)
24			8	31	56	2.50	-	-	-	-	-	-	-	-	18	A-7-6 (V)
25	532.5	VERY STIFF, RED, SILTY CLAY, TRACE SAND, TRACE STONE FRAGMENTS, DAMP	14	21	78	2.00	2	1	2	33	62	37	21	16	18	A-6b (10)
26			6	21	78	2.00	-	-	-	-	-	-	-	-	13	A-6b (V)
27			9	25	94	2.00	-	-	-	-	-	-	-	-	13	A-6b (V)
28			4	25	94	2.00	-	-	-	-	-	-	-	-	13	A-6b (V)
29			8	22	100	2.50	-	-	-	-	-	-	-	-	13	A-6b (V)
30	528.0	VERY STIFF, BROWN AND GRAY, SANDY SILT, SOME STONE FRAGMENTS, SOME CLAY, DAMP	8	22	100	2.50	-	-	-	-	-	-	-	-	13	A-6b (V)
31			15	32	78	2.00	25	8	25	21	21	19	14	5	12	A-4a (1)
32		@31.5' - 38.4': ENCOUNTERED BOULDERS/COBBLLES	11	32	78	2.00	-	-	-	-	-	-	-	-	12	A-4a (V)
33			12	32	78	2.00	-	-	-	-	-	-	-	-	12	A-4a (V)
34			50	-	100	-	-	-	-	-	-	-	-	-	-	-
35																
36																
37																
38																
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40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54	504.0															

STANDARD ODOT BORING LOG (11 X 17) - OH DOT GDT - R/20/24 11-34 - X:\GINT\PROJECTS\2021\COMPLETION\888.GPJ

NOTES: LAT/LONG/ELEV FROM OGE HANDHELD GPS UNIT.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

GEOTECHNICAL PROFILE - LANDSLIDE
BORING LOG FOR B-003-0-21



DESIGN AGENCY

DESIGNER
AIC

REVIEWER
SAT 08/23/24

PROJECT ID
115533

SUBSET TOTAL
8 17


SHEET TOTAL
P.39 0

GAL-7-19.94

MODEL SHEET PAPER SIZE: 17x11 (in.) DATE: 9/26/2024 TIME: 12:41:09 PM USER: jwiseman
 p:\gint\dot-pw.bentley.com\ohiodot-pw-02\Documents\01.Active Projects\District 10\Galila\115533\400-Engineering\Geotechnical\Sheets\115533_YL004.dgn

PROJECT: GAL-7-19.94 TYPE: LANDSLIDE PID: 115533 SFN: START: 5/31/22 END: 6/7/22		DRILLING FIRM / OPERATOR: ODOT / MCINTOSH SAMPLING FIRM / LOGGER: ODOT / LEWIS DRILLING METHOD: 3.75" HSA / NQ2 SAMPLING METHOD: SPT / NQ2		STATION / OFFSET: 1069+78.36' RT. ALIGNMENT: CL SR 7 ELEVATION: 552.3 (ft) EOB: 66.5 ft. LAT / LONG: 38.782596, -82.222645		EXPLORATION ID B-003-1-22						
MATERIAL DESCRIPTION AND NOTES				GRADATION (%)				ODOT CLASS (GI)				
DEPTH (ft)	ELEV.	SPT/ RQD	REC SAMPLE ID (%)	GR	CS	FS	SI	CL	LL	PL	WC	INCL.
1	552.3											
2	551.3	2	56	19	4	8	32	37	35	17	18	16 A-6b (10)
3		3	78	-	-	-	-	-	-	-	-	20 A-6b (V)
4		2	56	-	-	-	-	-	-	-	-	26 A-6b (V)
5	546.3	4	67	31	1	32	22	14	24	18	6	14 A-4a (0)
6		5	44	26	1	26	27	20	24	16	8	15 A-4a (2)
7		12	33	-	-	-	-	-	-	-	-	13 A-4a (V)
8		4	39	-	-	-	-	-	-	-	-	19 A-6b (V)
9		9	72	14	2	4	24	56	40	20	20	19 A-6b (12)
10		5	39	-	-	-	-	-	-	-	-	20 A-6b (V)
11	541.8	3	61	-	-	-	-	-	-	-	-	19 A-6b (V)
12		2	39	-	-	-	-	-	-	-	-	19 A-6b (V)
13		4	72	14	2	4	24	56	40	20	20	19 A-6b (12)
14	538.4	3	50	-	-	-	-	-	-	-	-	20 A-6b (V)
15		4	83	0	0	33	63	4	NP	NP	NP	18 A-6b (V)
16		5	56	-	-	-	-	-	-	-	-	25 A-4b (6)
17		6	33	-	-	-	-	-	-	-	-	26 A-4b (V)
18		7	67	3	28	52	14	3	NP	NP	NP	27 A-4b (V)
19		8	6	-	-	-	-	-	-	-	-	14 A-3a (V)
20		9	28	-	-	-	-	-	-	-	-	23 A-3a (V)
21		0	67	0	2	80	14	4	NP	NP	NP	27 A-3a (0)
22		0	6	-	-	-	-	-	-	-	-	14 A-3a (V)
23		1	28	-	-	-	-	-	-	-	-	23 A-3a (V)
24		0	67	3	28	52	14	3	NP	NP	NP	20 A-3a (0)
25		0	83	-	-	-	-	-	-	-	-	15 A-3a (V)
26		1	56	-	-	-	-	-	-	-	-	16 A-6b (V)
27		2	33	-	-	-	-	-	-	-	-	26 A-4b (V)
28		0	67	0	2	80	14	4	NP	NP	NP	27 A-4b (V)
29		0	6	-	-	-	-	-	-	-	-	14 A-3a (V)
30		0	28	-	-	-	-	-	-	-	-	23 A-3a (V)
31		0	67	3	28	52	14	3	NP	NP	NP	20 A-3a (0)
32		3	83	-	-	-	-	-	-	-	-	15 A-3a (V)
33		5	56	-	-	-	-	-	-	-	-	16 A-6b (V)
34		6	33	-	-	-	-	-	-	-	-	26 A-4b (V)
35		10	67	2	3	4	39	52	39	18	21	14 A-6b (12)
36		15	78	2	3	4	39	52	39	18	21	14 A-6b (12)
37		26	83	2	3	4	39	52	39	18	21	14 A-6b (12)
38		34	78	2	3	4	39	52	39	18	21	14 A-6b (12)
39		43	78	2	3	4	39	52	39	18	21	14 A-6b (12)
40		73	78	2	3	4	39	52	39	18	21	14 A-6b (12)
41		41	56	-	-	-	-	-	-	-	-	9 Rock (V)
42		54	56	-	-	-	-	-	-	-	-	9 Rock (V)
43		67	56	-	-	-	-	-	-	-	-	9 Rock (V)
44		22	78	-	-	-	-	-	-	-	-	11 Rock (V)
45		44	78	-	-	-	-	-	-	-	-	11 Rock (V)
46		77	78	-	-	-	-	-	-	-	-	11 Rock (V)
47		20	61	-	-	-	-	-	-	-	-	11 Rock (V)
48		47	89	-	-	-	-	-	-	-	-	11 Rock (V)
49		69	89	-	-	-	-	-	-	-	-	11 Rock (V)
50		28	89	-	-	-	-	-	-	-	-	11 Rock (V)
51		52	89	-	-	-	-	-	-	-	-	11 Rock (V)
52		59	89	-	-	-	-	-	-	-	-	13 Rock (V)
53		21	89	-	-	-	-	-	-	-	-	13 Rock (V)
54		39	89	-	-	-	-	-	-	-	-	13 Rock (V)
55		60	89	-	-	-	-	-	-	-	-	13 Rock (V)
56		25	78	-	-	-	-	-	-	-	-	13 Rock (V)
57		41	78	-	-	-	-	-	-	-	-	13 Rock (V)
58		68	78	-	-	-	-	-	-	-	-	13 Rock (V)
59		0	100	-	-	-	-	-	-	-	-	CORE
		0	100	-	-	-	-	-	-	-	-	CORE
		0	96	-	-	-	-	-	-	-	-	CORE
		0	63	-	-	-	-	-	-	-	-	CORE
		25	100	-	-	-	-	-	-	-	-	CORE
		42	96	-	-	-	-	-	-	-	-	CORE
		75	96	-	-	-	-	-	-	-	-	CORE
		0	96	-	-	-	-	-	-	-	-	CORE

**GEOTECHNICAL PROFILE - LANDSLIDE
BORING LOG FOR B-003-1-22**

DESIGN AGENCY

 DESIGNER
AIC
 REVIEWER
 SAT 08/23/24
 PROJECT ID
 115533
 SUBSET TOTAL
 9 17
 SHEET TOTAL
 P.40 0

STANDARD ODOT BORING LOG (11 X 17) - OH DOT GDT - 8/21/24 07:49 - X:\GINT\PROJ\PROJECTS\2022\COMPL\FTF\60971.GPJ

GAL-7-19.94

MODEL SHEET PAPER SIZE: 17x11 (in.) DATE: 9/26/2024 TIME: 12:41:19 PM USER: wiseman
 pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01.Active Projects\District 10\Gallia\115533\400-Engineering\Geotechnical\Sheets\115533_YL005.dgn

PID: 115533	SFN:	PROJECT: GAL-7-19.94	STATION / OFFSET: 1069+78.36' RT.	START: 5/31/22	END: 6/7/22	PG 2 OF 2	B-003-1-22											
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS	SPT/ RQD	REC N ₆₀ (%)	REC SAMPLE ID	HP (tsf)	GRADATION (%)			ATTERBERG			WC	ODOT CLASS (GI)	INCL.		
CLAYSTONE , REDDISH BROWN, HIGHLY TO MODERATELY WEATHERED, VERY WEAK TO WEAK, THIN BEDDED; RQD 20%, REC 94%. <i>(continued)</i> @60.1' - 60.2': SLICKENSIDED HIGH ANGLE FRACTURE @61.0': BROWNISH BLACK @61.7': LIGHT GRAY, WEAK. SANDSTONE , GRAYISH BLACK, MODERATELY WEATHERED, STRONG, VERY FINE GRAINED, ARGILLACEOUS; RQD 56%, REC 100%. @ 63.9' - 64.3': $\gamma = 166$ pcf; $Q_u = 8,255$ psi		492.3	61	21	100	NQ2-8		GR	CS	FS	SI	CL	LL	PL	PI		CORE	
		489.3	62	81	100	NQ2-9												CORE
		485.8	63	17	100	NQ2-10												CORE
			64															
			65															
			66															
			EOB															

NOTES: LAT/LONG/ELEV FROM DISTRICT SURVEY GRADE INSTRUMENTS.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED 120 GAL. BENTONITE CEMENT GROUT

DESIGN AGENCY	
DESIGNER	AJC
REVIEWER	SAT 08/23/24
PROJECT ID	115533
SUBSET	TOTAL
10	17
SHEET	TOTAL
P.41	0

**GEOTECHNICAL PROFILE - LANDSLIDE
 BORING LOG FOR B-003-1-22 (CONT.)**

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT GDT - 8/21/24 07:49 - X:\GINT\PROJECTS\2022 COMPLETION\0971.GPJ


GAL-7-19.94

MODEL SHEET PAPER SIZE: 17x11 (in.) DATE: 9/26/2024 TIME: 12:41:27 PM USER: wiseman
 pw:\ohiodot-pw.bentley.com\ohiodot-pw-02\Documents\01.Active Projects\District 10\Gallia\115533\400-Engineering\Geotechnical\Sheets\115533_YU006.dgn

PROJECT: GAL-7-19.94	DRILLING FIRM / OPERATOR: ODOT / CAREY	STATION / OFFSET: 1070+31, 10' RT.	EXPLORATION ID
TYPE: LANDSLIDE	SAMPLING FIRM / LOGGER: ODOT / MCLEISH	ALIGNMENT: CL SR 7	B-004-0-21
PID: 115533 SFN:	DRILLING METHOD: 3.25" HSA / NQ2	ELEVATION: 560.2 (ft) EOB: 49.0 ft.	PAGE
START: 8/3/21 END: 8/4/21	SAMPLING METHOD: SPT / NQ2	LAT / LONG: 38.782737, -82.222746	1 OF 1

DEPTH	ELEV.	MATERIAL DESCRIPTION AND NOTES	SPT/ RQD	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)							WC	ODOT CLASS (GI)	BACK FILL
							GR	CS	FS	SI	CL	LL	PL			
1	560.2	ASPHALT (18") & CONCRETE (10")														
2	557.9	SOFT, REDDISH BROWN, SILT AND CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST	4	28	SS-1	0.25	3	2	12	44	39	18	11	22	A-6a (8)	
3																
4			1	6	SS-2	2.00	-	-	-	-	-	-	-	19	A-6a (V)	
5			5	6	SS-3	1.00	-	-	-	-	-	-	-	14	A-6a (V)	
6			4	8	SS-4	1.50	-	-	-	-	-	-	-	13	A-6a (V)	
7			5	14	SS-5	-	0	12	21	43	24	27	18	6	A-4a (6)	
8			4	25	SS-6	-	2	17	14	39	28	30	20	11	A-4a (6)	
9			3	83	SS-7	2.00	3	5	6	30	56	40	23	17	A-6b (11)	
10			6	21	SS-8	2.50	1	0	2	31	66	35	18	13	A-6b (11)	
11			5	100	SS-9	2.50	-	-	-	-	-	-	-	15	A-6b (V)	
12			6	21	SS-10	2.50	2	0	2	30	66	39	21	18	A-6b (11)	
13			9	29	SS-11	-	-	-	-	-	-	-	-	12	A-6b (V)	
14			7	25	SS-12A	1.00	8	3	26	41	22	21	14	7	A-4a (6)	
15			11	85	SS-12B	-	-	-	-	-	-	-	-	13	Rock (V)	
16			19													
17			42													
18			50	100	SS-13	-	-	-	-	-	-	-	-	12	Rock (V)	
19																
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NOTES: LAT/LONG/ELEV FROM OGE HANDHELD GPS UNIT. HOLE DRY BEFORE CORING.
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS MIXED WITH 50 LB. BENTONITE CHIPS

DESIGN AGENCY

 DESIGNER
 AIC
 REVIEWER
 SAT 08/23/24
 PROJECT ID
 115533
 SUBSET TOTAL
 11 17
 SHEET TOTAL
 P.42 0

**GEOTECHNICAL PROFILE - LANDSLIDE
 BORING LOG FOR B-004-0-21**

STANDARD ODOT BORING LOG (11 X 17) - OH DOT GDT - 8/20/24 11-34 - X:\GINT\PROJ\PROJECTS\2021\COMPL\FTF600888.GPJ



Office of Geotechnical Engineering

B-001-0-21



Run #:	Depth	Recovery	RQD
NQ2-1	41.0'	58/60	46/60
NQ2-2	46.0'	40/60	34/60
GAL-7-19.94 PID 115533			



Office of Geotechnical Engineering

B-001-0-21



Run #:	Depth	Recovery	RQD
NQ2-3	51.0'	60/60	33/60
	56.0'	100%	55%
GAL-7-19.94 PID 115533			

DESIGN AGENCY



DESIGNER
AJC

REVIEWER
SAT 08/23/24

PROJECT ID
115533

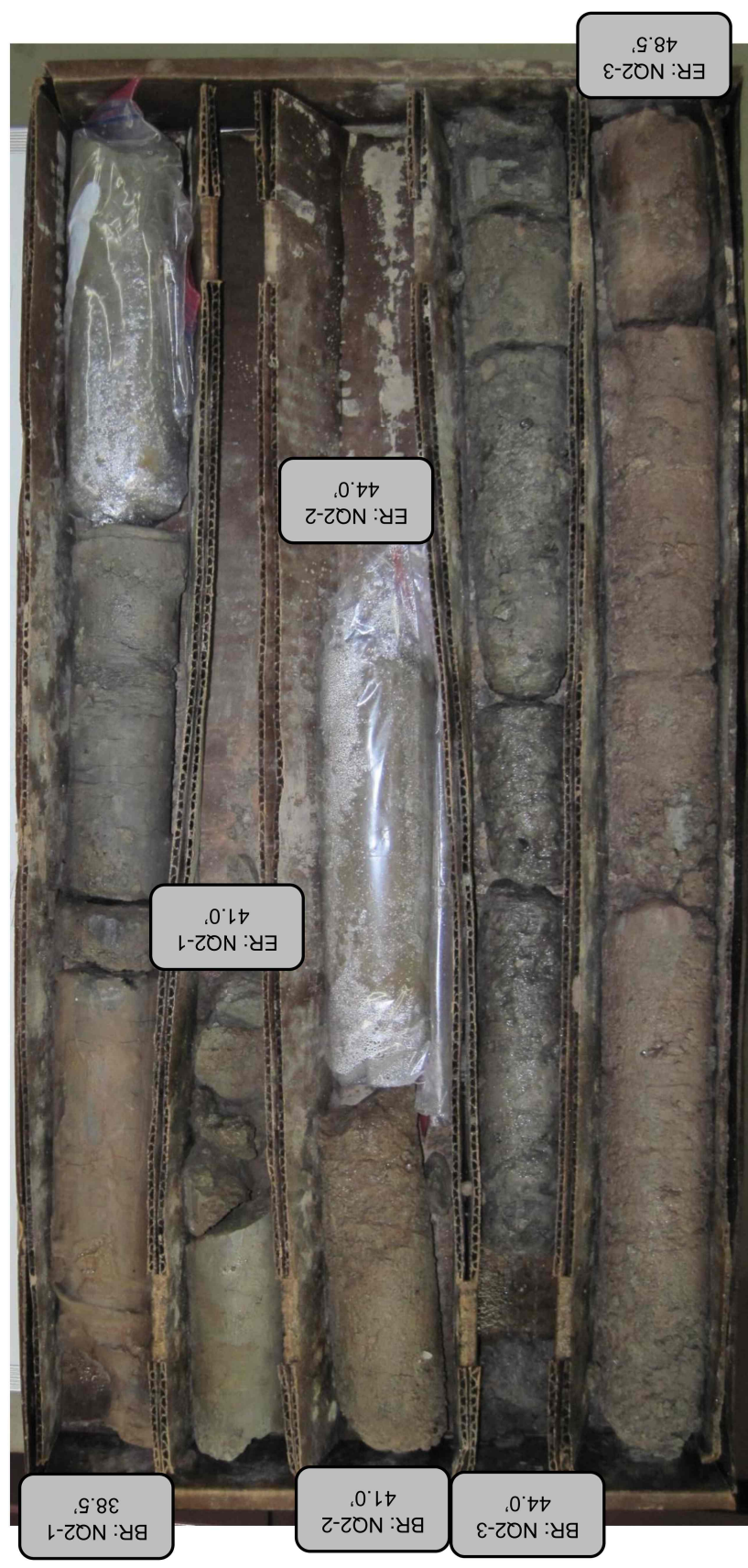
SUBSET	TOTAL
12	17

SHEET	TOTAL
P.43	0



Office of Geotechnical Engineering

B-002-0-21



Run #:	Depth	Recovery	RQD
NQ2-1	38.5'	29/30	23/30
NQ2-2	41.0'	14/36	14/36
NQ2-3	44.0'	45/54	31/54
GAL-7-19.94 PID 115533			



Office of Geotechnical Engineering

B-002-0-21



Run #:	Depth	Recovery	RQD
NQ2-4	48.5'	24/24	14/24
NQ2-5	50.5'	24/24	0/24
NQ2-6	52.5'	24/24	7/24
NQ2-7	54.5'	23/24	18/24
NQ2-8	56.5'	22/24	17/24
GAL-7-19.94 PID 115533			

DESIGN AGENCY



DESIGNER

AJC

REVIEWER

SAT 08/23/24

PROJECT ID

115533

SUBSET TOTAL

13 17

SHEET TOTAL

P.44 0



Office of Geotechnical Engineering

B-003-0-21



Run #:	Depth	Recovery	RQD
NQ2-1	34.0'	30/60	0/60
NQ2-2	39.0'	60/60	14/60
GAL-7-19.94 PID 115533			



Office of Geotechnical Engineering

B-003-0-21



Run #:	Depth	Recovery	RQD
NQ2-3	44.0'	55/60	32/60
NQ2-4	49.0'	41/60	23/60
GAL-7-19.94 PID 115533			

DESIGN AGENCY



DESIGNER

AJC

REVIEWER

SAT 08/23/24

PROJECT ID

115533

SUBSET TOTAL

14 17

SHEET TOTAL

P.45 0



Office of Geotechnical Engineering

B-003-1-22



Run #:	Depth	Recovery	RQD
NQ2-1	46.5'	24/24	0/24
NQ2-2	48.5'	24/24	0/24
NQ2-3	50.5'	23/24	0/24
NQ2-4	52.5'	15/24	64/24
NQ2-5	54.5'	24/24	10/24

GAL-7-19.94 PID 115533



Office of Geotechnical Engineering

B-003-1-22



Run #:	Depth	Recovery	RQD
NQ2-6	56.5'	23/24	18/24
NQ2-7	58.5'	23/24	0/24
NQ2-8	60.5'	24/24	5/24
NQ2-9	62.5'	24/24	19.5/24
NQ2-10	64.5'	24/24	4/24

GAL-7-19.94 PID 115533



DESIGN AGENCY
AIC

REVIEWER
SAT 08/23/24

PROJECT ID
115533

SUBSET	TOTAL
15	17

SHEET	TOTAL
P.46	0

GEOTECHNICAL PROFILE - LANDSLIDE
 ROCK CORE PHOTOS FOR B-003-1-21



Office of Geotechnical Engineering

B-004-0-21



BR: NQ2-1
34.0'

ER: NQ2-2
44.0'

Run #:	Depth	Recovery	RQD
NQ2-1	34.0'	60/60	0/60
NQ2-2	39.0'	60/60	24/60
GAL-7-19.94 PID 115533			
		100%	0%
		100%	40%



Office of Geotechnical Engineering

B-004-0-21



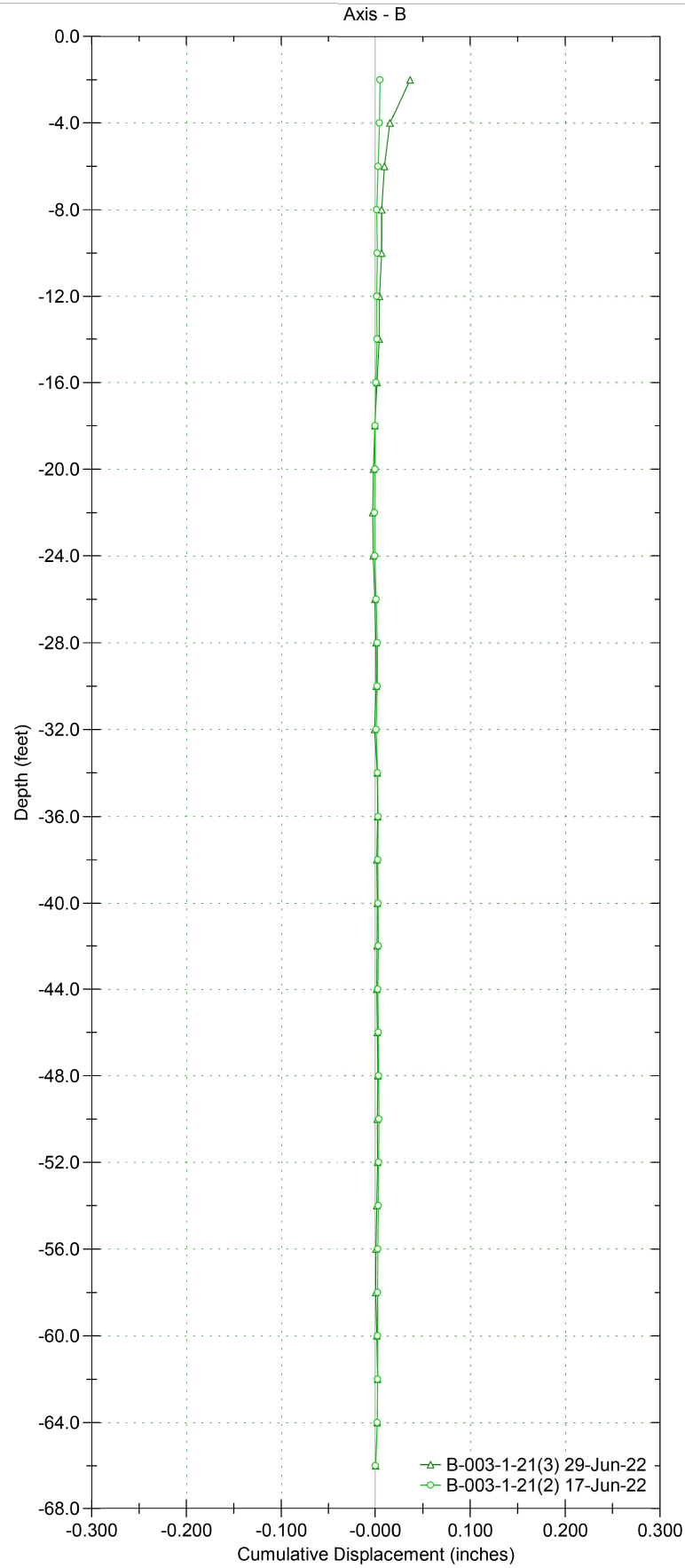
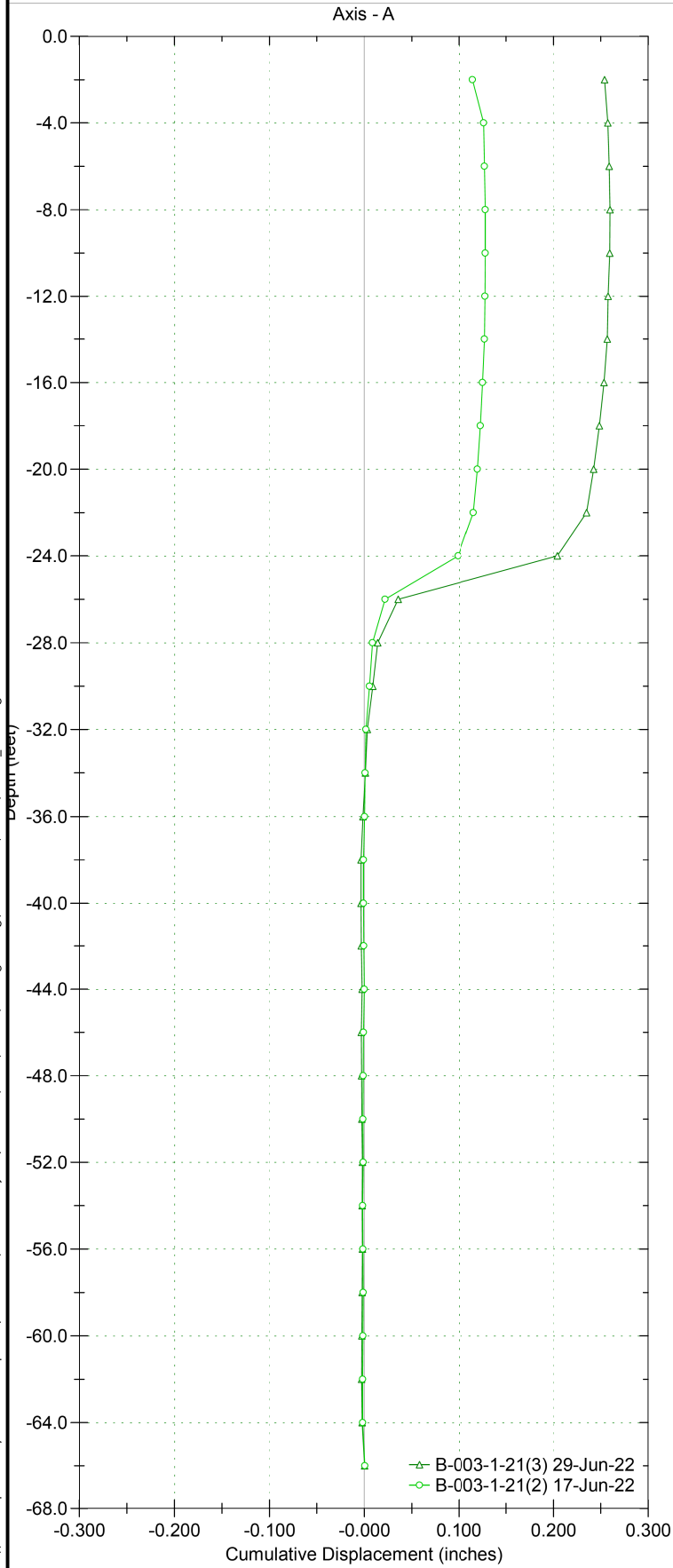
BR: NQ2-3
44.0'

ER: NQ2-3
49.0'

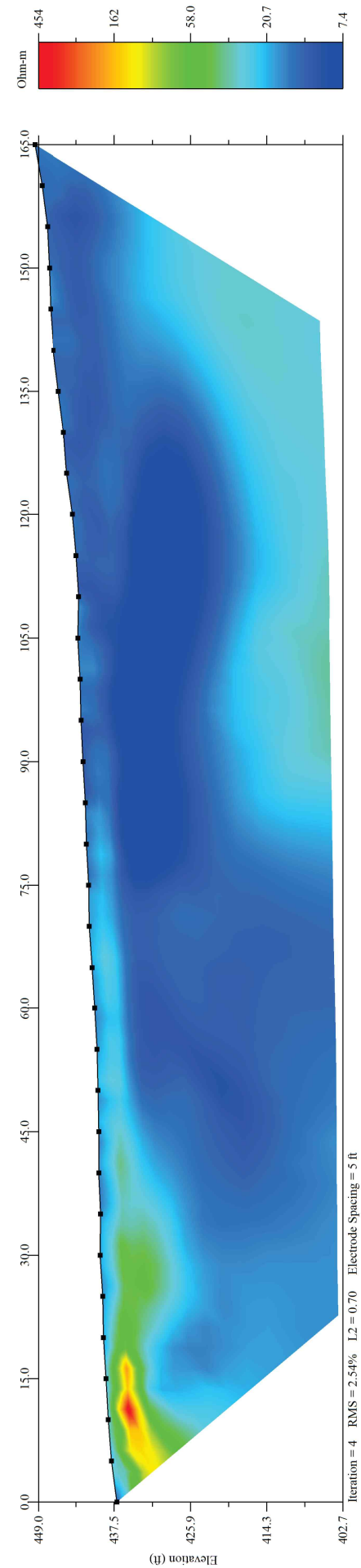
Run #:	Depth	Recovery	RQD
NQ2-3	44.0'	60/60	19/60
GAL-7-19.94 PID 115533			
		100%	32%

Borehole : B-003-1-22
 Project : Inclinator
 Location : GAL-7-19.94
 Northing :
 Easting :
 Collar :

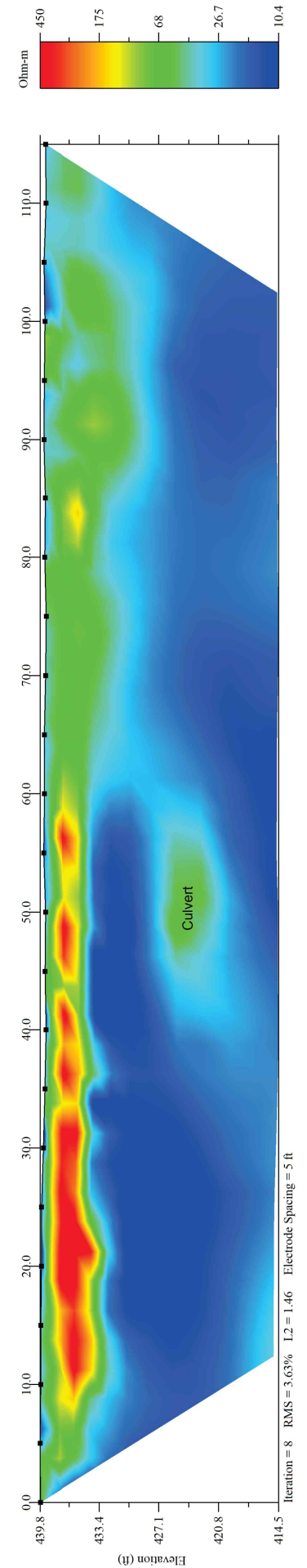
Spiral Correction : N/A
 Collar Elevation : 0.0 feet
 Borehole Total Depth : 66.0 feet
 A+ Groove Azimuth :
 Base Reading : 2022 Jun 10 06:13
 Applied Azimuth : -5.0 degrees



GAL-7-19.94 ER Survey Line 1 Inverted Resistivity Section



GAL-7-19.94 ER Survey Line 2 Inverted Resistivity Section



DESIGN AGENCY	
DESIGNER	
AJC	
REVIEWER	
SAT 08/23/24	
PROJECT ID	
115533	
SUBSET	TOTAL
17	17
SHEET	TOTAL
P.48	0