

THIS PROJECT, DESIGNATED AS FUL-120-14.08, PID NO. 101140, INCLUDES REPLACEMENT OF THE SR 120 BRIDGE (SFN 2601745) OVER TENMILE CREEK IN METAMORA, FULTON COUNTY, OHIO.

REVIEW OF ODOT RECORDS FOR THE PROJECT AREA INDICATED NUMEROUS HISTORIC AUGER AND DRIVE ROD STRUCTURAL BORINGS HAD BEEN PERFORMED FOR THE SR 120 BRIDGE OVER TENMILE CREEK IN 1954 FOR FUL-120 (14.06-14.08). TEN BORINGS WERE PERFORMED NEAR THE INTERSECTIONS PERTINENT TO THIS PROJECT. SINCE THE HISTORIC BORINGS WERE AUGER BORINGS OR DRIVE ROD BORINGS THAT DID NOT INCLUDE STANDARD PENETRATION TESTS, THEY WERE NOT UTILIZED FOR EVALUATIONS FOR THIS PROJECT AND ARE NOT SHOWN ON THE PLAN AND PROFILE SHEETS. HOWEVER, THE COVER SHEET, AS WELL AS THE PERTINENT PLAN-AND-PROFILE DRAWINGS FROM THE HISTORIC SOIL PROFILE, ARE INCLUDED IN APPENDIX C OF THE ASSOCIATED GEOTECHNICAL REPORT.

PUBLISHED GEOLOGIC MAPS FROM THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) INDICATE THAT THE PROJECT SITE IS LOCATED IN THE MAUMEE LAKE PLAINS PHYSIOGRAPHIC REGION OF THE HURON-ERIE LAKE PLAINS SECTION. WITHIN THIS REGION, THE GEOLOGIC DEPOSITS CONSIST OF PLEISTOCENE-AGE SILT, CLAY, AND WAVE-PLANED CLAYEY TILL OVERLYING SILURIAN-AGE CARBONATE AND SHALE BEDROCK.

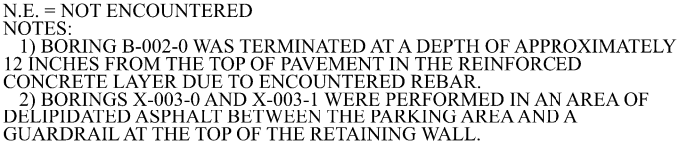
THE ALLUVIAL DEPOSITS NEAR TENMILE CREEK ARE ASSOCIATED WITH THE HISTORIC DEPOSITION ASSOCIATED WITH THIS CREEK. THE LACUSTRINE SOILS CONSIST OF HISTORIC LAKE-LAID DEPOSITS, CONSISTING OF PREDOMINANTLY SILTS AND CLAYS, AND OFTEN EXHIBIT ALTERNATING THIN LAYERS OF INTERBEDDED SILTS AND CLAYS KNOWN AS VARVES. VARVED SOILS ARE CHARACTERISTIC OF LACUSTRINE DEPOSITS, AND THE THIN LAYERING IS TYPICALLY ATTRIBUTED TO SEASONAL OR OTHER CYCLIC VARIATIONS OF SEDIMENTATION IN THE LAKE WATERS. IN ADDITION, THIN SAND SEAMS AND PARTINGS MAY BE ENCOUNTERED.

BEDROCK IN THE PROJECT AREA IS BROADLY MAPPED ON THE "GEOLOGIC MAP OF OHIO" AS DEVONIAN-AGE OLENTANGY AND OHIO SHALES. BEDROCK AT THE SITE IS MAPPED AT ELEV. 620±, CORRESPONDING TO DEPTHS ON THE ORDER OF APPROXIMATELY 100 FEET BELOW EXISTING GRADES. A LOG FOR A NEARBY WATER WELL INDICATED SHALE BEDROCK WAS ENCOUNTERED AT A DEPTH OF APPROXIMATELY 135 FEET BELOW GRADE.

SPALLING CONCRETE AND LARGE CRACKS WERE OBSERVED ALONG PORTIONS OF THE HEADWALLS, AND CONNECTED RETAINING WALL. THE BRIDGE GIRDERS GENERALLY HAD MINOR RUST. A PIPE EXTEND THROUGH THE WESTERN HEADWALL, SOUTH OF THE BRIDGE. SEVERAL PIPES ARE PRESENT DISCHARGING INTO THE CREEK TROUGH THE HEADWALLS AND RETAINING WALL. A PVC PIPE AND A CONCRETE PIPE DISCHARGING TO THE CREEK WERE PRESENT AT THE GROUND SURFACE/TOP OF EAST HEADWALL, SOUTH OF THE BRIDGE. THIS WALL INCLUDED A TURNBACK BEYOND A STEEL I-BEAM THAT HAD BEEN INSTALLED POSSIBLY FOR REINFORCEMENT LATER IN THE LIFE OF THE WALL. IN ANY CASE, THE PORTION OF THE WALL BEYOND THE TURNBACK INCLUDED TILTING AND SPALLING.

AT THE TIME OF OUR RECONNAISSANCE, THE TENMILE CREEK BOTTOM WAS APPROXIMATELY 13 FEET AND 14 FEET BELOW ROADWAY GRADES SOUTH AND NORTH OF THE BRIDGE, RESPECTIVELY (ELEV. 706± AND 705±, RESPECTIVELY). THE WATER LEVEL IN THE CREEK WAS APPROXIMATELY 2 INCHES AND 12 INCHES ABOVE CREEK BOTTOM SOUTH AND NORTH OF THE BRIDGE, RESPECTIVELY (ELEV. 706±).

THE TEST BORINGS PERFORMED DURING THIS EXPLORATION WERE DRILLED WITH AN ATV-MOUNTED DRILLING RIG FOR THE BRIDGE BORINGS AND WITH A TRUCK-MOUNTED DRILLING RIG FOR THE BUILDING AND EXISTING RETAINING WALL EXPLORATORY BORINGS. THE BORINGS WERE EXTENDED TO A DRILLING DEPTH 3/4" IN INSIDE DIAMETER. THE BORINGS WERE EXTENDED TO BORING B-001 AND B-002 WHERE OBTAINED CONTINUOUSLY OVER 18-INCH SPLIT-SPOON (SS) SAMPLE DRIVES TO A DEPTH OF 7 FEET, AT 2 1/2-FOOT INTERVALS TO A DEPTH OF 30 FEET, AND AT 5-FOOT INTERVALS THEREAFTER. ADDITIONALLY, IN BORING B-001, SAMPLES WERE OBTAINED CONTINUOUSLY OVER 18-INCH SS SAMPLE DRIVES FROM 11 TO 20 FEET TO INCLUDE SAMPLING FOR EVALUATION OF POTENTIAL SLOUR. IN BORING B-004, SAMPLES WERE OBTAINED CONTINUOUSLY OVER 18-INCH SPLIT-SPOON (SS) DRIVES AT 5-FOOT INTERVALS THEREAFTER. BORINGS X-003-0 AND X-003-1 DID NOT INCLUDE SAMPLING. SPLIT-SPOON SOIL SAMPLES WERE OBTAINED BY THE STANDARD PENETRATION TEST METHOD (ASTM D 1586). THESE SAMPLES WERE SEALED IN JARS AND TRANSPORTED TO OUR LABORATORY FOR FURTHER CLASSIFICATION AND TESTING. THE HAMMER/ROD ENERGY RATIO FOR THE ATV-MOUNTED DRILL RIG (CME 75) WAS 78 PERCENT AND WAS CALIBRATED ON FEBRUARY 20, 2019. THE HAMMER/ROD ENERGY RATIO FOR THE TRUCK-MOUNTED DRILL RIG (CME 75) WAS 70.8 PERCENT, AND WAS CALIBRATED ON THE SAME DATE.



UNDERLYING THE SURFACE MATERIALS. MEDIUM STIFF TO STIFF COHESIVE EXISTING FILL MATERIALS WERE ENCOUNTERED TO DEPTHS RANGING FROM 3.8 TO 8.8 FEET BELOW TOP OF PAVEMENT. THE FILL CONSISTED OF SANDY SILT, SILT AND CLAY, AS WELL AS SILTY CLAY. NON-SOIL MATERIALS OBSERVED IN THE FILL CONSISTED OF CRUSHED STONE, WOOD, AS WELL AS ASPHALT AND BRICK FRAGMENTS. ORGANIC CONTENTS OF APPROXIMATELY 10 TO 11 PERCENT WERE DETERMINED FOR TWO FILL SAMPLES CONTAINING WOOD [BORINGS B-001 (SS-4) AND B-004 (SS-1)].

BASED ON THE BORINGS COMPLETED FOR THIS EXPLORATION, THE SUBSURFACE PROFILE ENCOUNTERED UNDERLYING THE SURFACE AND FILL MATERIALS CAN BE GENERALLY CHARACTERIZED BY FIVE STRATA OF COHESIVE SOILS WITH VARYING STRENGTH AND MOISTURE CHARACTERISTICS.

STRATUM I CONSISTED OF PREDOMINANTLY SOFT TO MEDIUM STIFF COHESIVE SOILS ENCOUNTERED UNDERLYING THE FILL IN BORINGS B-001 AND B-002-1 TO DEPTHS OF 11 FEET AND 8½ FEET, RESPECTIVELY (ELEVS. 708± AND 710±, RESPECTIVELY). THE STRATUM I SOILS CONSISTED OF SILTY CLAY (ODOT A-6B) WITH LITTLE SAND AND TRACE GRAVEL.

STRATUM II CONSISTED OF PREDOMINANTLY STIFF TO VERY STIFF COHESIVE SOILS ENCOUNTERED UNDERLYING THE FILL IN BORING B-004 AND STRATUM I IN BORING B-002-1. STRATUM II EXTENDED TO DEPTHS OF 11 FEET (ELEV. 708±) IN BORING B-002-1 AND 6 FEET (ELEV. 713±) IN BORING B-004. THESE COHESIVE SOILS CONSISTED OF SILT AND CLAY (A-6A) AS WELL AS SILTY CLAY (A-6B) WITH VARYING AMOUNTS OF SAND AND GRAVEL.

STRATUM III CONSISTED OF PREDOMINANTLY VERY STIFF TO HARD COHESIVE SOILS ENCOUNTERED UNDERLYING STRATUM I IN BORING B-001, AS WELL AS STRATUM II IN BORINGS B-002-1 AND B-004. STRATUM III EXTENDED TO BORING TERMINATION AT A DEPTH OF 20 FEET IN BORING B-004, AS WELL AS TO DEPTHS OF 49½ FEET (ELEV. 669±) IN BORING B-001 AND 38½ FEET (ELEV. 680±) IN BORING B-002-1. THESE COHESIVE SOILS CONSISTED OF SANDY SILT (A-4A), SILT AND CLAY (A-6A), AS WELL AS SILTY CLAY (A-6B).

STRATUM IV CONSISTED OF PREDOMINANTLY HARD COHESIVE SOILS ENCOUNTERED UNDERLYING STRATUM II IN BORINGS B-001 AND B-002-1 TO DEPTHS OF 73 FEET AND 73½ FEET, RESPECTIVELY (ELEVS. 646± AND 645±, RESPECTIVELY). THESE COHESIVE SOILS CONSISTED OF SILT AND CLAY (A-6A) AS WELL AS SILTY CLAY (A-6B).

STRATUM V CONSISTED OF PREDOMINANTLY “VERY HARD” COHESIVE SOILS ENCOUNTERED UNDERLYING STRATUM IV IN BORINGS B-001 AND B-002-1 TO TERMINATION AT A DEPTH OF 80 FEET (ELEV. 639±). THESE COHESIVE SOILS CONSISTED OF SANDY SILT (A-4A).

GROUNDWATER WAS INITIALLY ENCOUNTERED DURING DRILLING AND OBSERVED UPON COMPLETION OF DRILLING OPERATIONS IN ONLY BORING B-001 AT A DEPTH OF 79.5 FEET (ELEV. 639.5). IT SHOULD BE NOTED THAT EACH BORING WAS GENERALLY DRILLED AND BACKFILLED OR SEALED WITHIN THE SAME DAY. THEREFORE, STABILIZED AMBIENT WATER LEVELS WERE NOT OBSERVED OVER THIS LIMITED TIME PERIOD. INSTRUMENTATION WAS NOT INSTALLED FOR LONG-TERM GROUNDWATER READINGS.

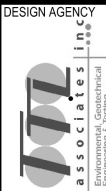
SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (SGE), DATED JULY 2020.

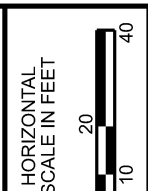
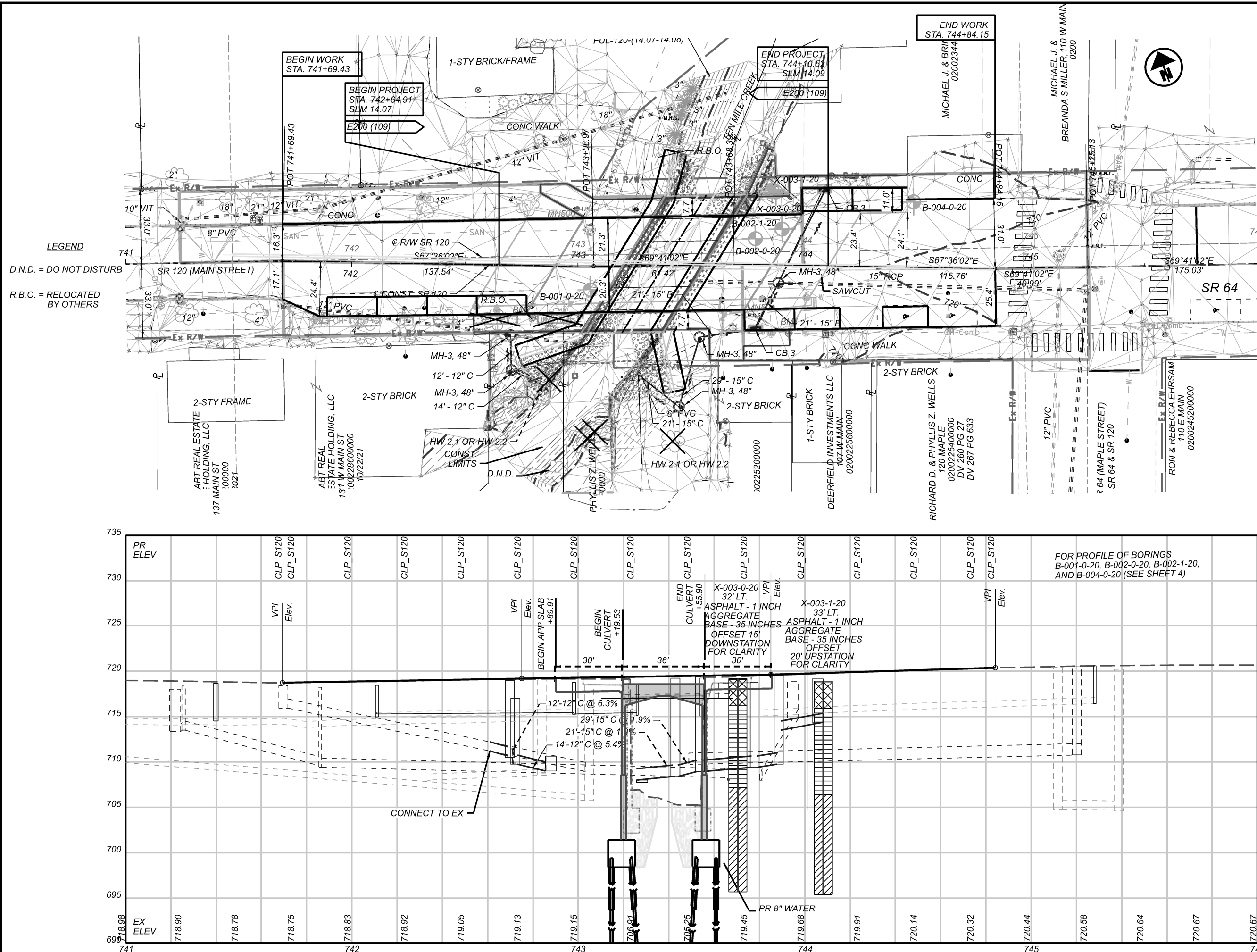
AVAILABLE INFORMATION

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

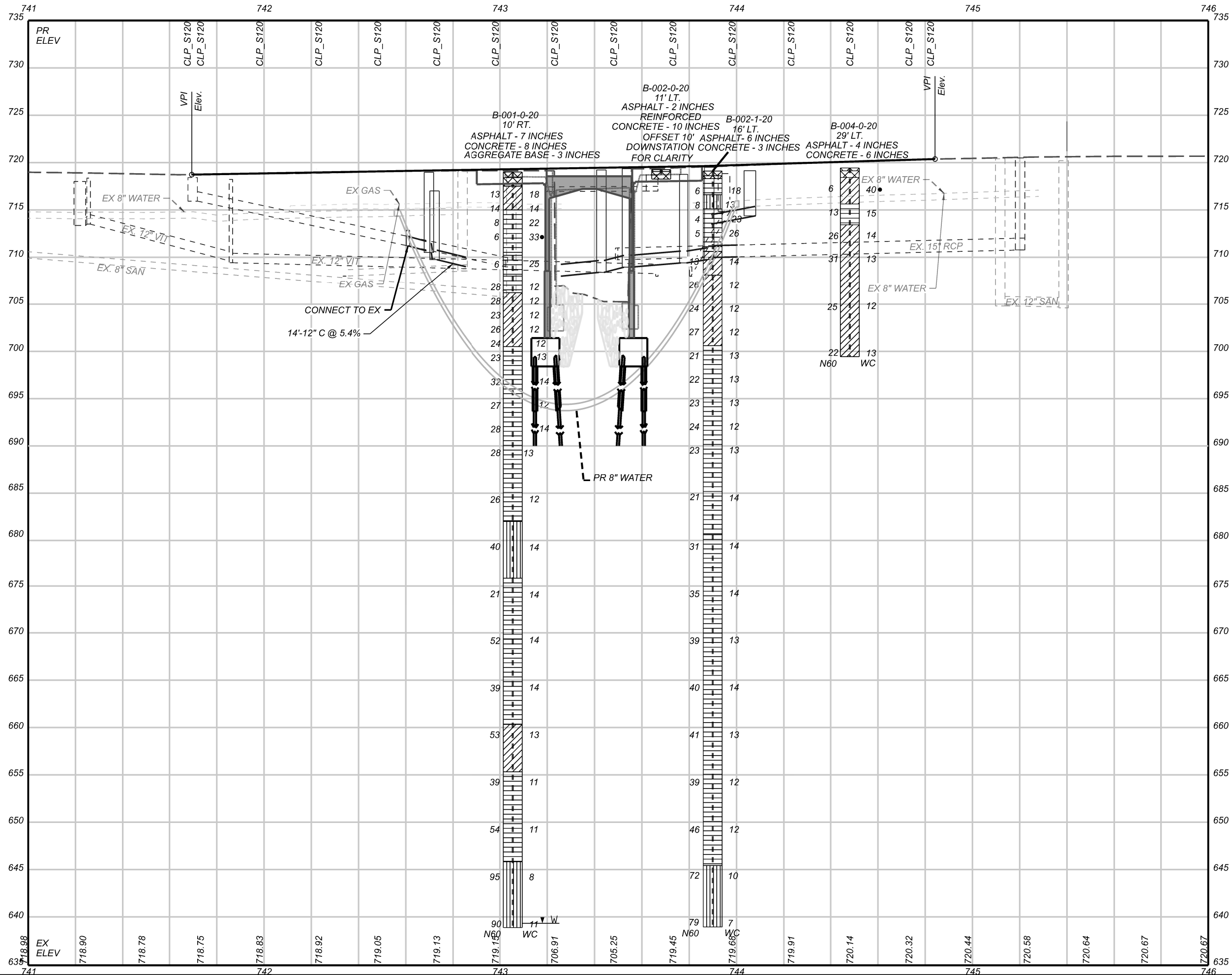
RECON CPI 10/01/20
DRILLING TB 10/07/20 THROUGH 10/09/20
DRAWN TRR 01/22
REVIEWED CPI 01/22




DESIGNER	
TRR	
REVIEWER	
CPI	01/22
PROJECT ID	
101140	
SHEET	TOTAL
45	55



PLAN AND PROFILE - ROADWAY
STA. 741+69 TO STA. 744+10



PROFILE -  ROADWAY
STA. 741+69 TO STA. 744+10

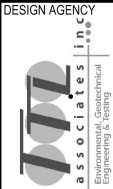
PROJECT: FUL-120-14.08			DRILLING FIRM / OPERATOR: _____			TTL / JW			DRILL RIG: CME 550X ATV			STATION / OFFSET: 743+06, 10' RT.			EXPLORATION IN B-001-0-20						
TYPE: BRIDGE			SAMPLING FIRM / LOGGER: _____			TTL / KKC			HAMMER: CME AUTOMATIC			ALIGNMENT: SR 120			ODOT CLASS (GI)						
PID: 101140 SFN: 2601745			DRILLING METHOD: 3.25" HSA			SPT			CALIBRATION DATE: 2/20/19			ELEVATION: 719.0 (NAVD88) EOB: 80.0 ft.			PAGE 1 OF 3						
START: 10/7/20 END: 10/7/20			SAMPLING METHOD: SPT			SPT / RQD			ENERGY RATIO (%): 77.3			COORD: 748267.0200 N, 1583250.6700 E			HOLE SEALED						
MATERIAL DESCRIPTION AND NOTES						ELEV.		DEPTHS		REC SAMPLE HP GR GRADATION (%) ATTERBERG		WC PI LL PL CL SI FS CS		SO4 ppm							
ASPHALT - 7 INCHES						719.0				N ₆₀ (%) ID (tsf)											
						718.4		1		78		3.50		1		7		11		23	
						717.7		2		13		SS-1		3.50		1		11		23	
						717.5		3		14		SS-2		NI		8		16		20	
						715.0		4		8		SS-3		1.25		-		-		-	
								5		2		SS-4		0.75		-		-		-	
								6		6		SS-4		0.75		-		-		-	
								7		3											
								8													
								9		2		6		100		SS-5		0.50		-	
CONCRETE - 8 INCHES						710.2															
								2		100		SS-5		0.50		-		-		-	
								3													
								4													
								5													
								6													
								7													
								8													
								9													
								10													
CRUSHED STONE - 3 INCHES						708.0															
								6		100		SS-6		4.90*		-		-		-	
								7		28		SS-7		4.50		-		-		-	
								8		28		SS-8		4.50		2		10		24	
								9		23		SS-9		4.50		5		8		19	
								10		26		SS-10		4.50		10		7		18	
								11		24		SS-11		4.50		-		-		-	
								12		23											
								13		32		SS-12		4.50		-		-		-	
								14		27		SS-13		4.67*		-		-		-	
STIFF, BROWN, SILTY AND CLAY, LITTLE SAND AND TRACE CRUSHED STONE, MOIST FILL @2.5" "AND" SAND, DAMP						706.2															
								6		100		SS-14		3.75		-		-		-	
								7		28		SS-15		4.50		-		-		-	
								8		28											
								9		28											
								10		28											
								11		28											
								12		28											
								13		28											
								14		28											
MEDIUM STIFF, BROWN, SILTY CLAY, LITTLE SAND AND TRACE CRUSHED STONE, MOIST FILL @5.5": SOME SAND, WITH WOOD, WET (MODERATELY ORGANIC, ORGANIC CONTENT = 10.3%)						700.5															
								6		100		SS-16		4.50		-		-		-	
								7		28		SS-17		4.50		-		-		-	
								8		28		SS-18		4.50		-		-		-	
								9		28		SS-19		4.50		-		-		-	
								10		28		SS-20		4.50		-		-		-	
								11		28		SS-21		4.50		-		-		-	
								12		28		SS-22		4.50		-		-		-	
								13		28		SS-23		4.50		-		-		-	
								14		28		SS-24		4.50		-		-		-	
MEDIUM STIFF, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP																					
								6		100		SS-25		4.50		-		-		-	
								7		28		SS-26		4.50		-		-		-	
								8		28		SS-27		4.50		-		-		-	
								9		28		SS-28		4.50		-		-		-	
								10		28		SS-29		4.50		-		-		-	
								11		28		SS-30		4.50		-		-		-	
								12		28		SS-31		4.50		-		-		-	
								13		28		SS-32		4.50		-		-		-	
								14		28		SS-33		4.50		-		-		-	
@17": LITTLE GRAVEL																					
								6		100		SS-34		4.50		-		-		-	
								7		28		SS-35		4.50		-		-		-	
								8		28		SS-36		4.50		-		-		-	
								9		28		SS-37		4.50		-		-		-	
								10		28		SS-38		4.50		-		-		-	
								11		28		SS-39		4.50		-		-		-	
								12		28		SS-40		4.50		-		-		-	
								13		28		SS-41		4.50		-		-		-	
								14		28		SS-42		4.50		-		-		-	
VERY STIFF TO HARD, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP																					
								6		100		SS-43		4.50		-		-		-	
								7		28		SS-44		4.50		-		-		-	
								8		28		SS-45		4.50		-		-		-	
								9		28		SS-46		4.50		-		-		-	
								10		28		SS-47		4.50		-		-		-	
								11		28		SS-48		4.50		-		-		-	
								12		28		SS-49		4.50		-		-		-	
								13		28		SS-50		4.50		-		-		-	
								14		28		SS-51		4.50		-		-		-	

PID: 101140		SFN: 2601745	PROJECT:	FUL-120-14.08		STATION / OFFSET: 743+06, 10' RT.				START: 10/7/20				END: 10/7/20				PG 2 OF 3		B-001-0-20		
MATERIAL DESCRIPTION AND NOTES				ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC SAMPLE ID	HP (tsf)	GRADATION (%)				ATTERBERG				WC	ODOT CLASS (G1)	SO4 ppm	HOLE SEALED	
VERY STIFF TO HARD, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP (continued)				688.0																		
HARD, GRAY, SANDY SILT, "AND" CLAY, DAMP				682.0																		
VERY STIFF TO HARD, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP				676.0																		
HARD, GRAY, SILTY CLAY, SOME SAND AND TRACE GRAVEL, DAMP				669.5																		
@53.5': LITTLE SAND				660.5																		
HARD, GRAY, SILT AND CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP				655.5																		

PID: 101140		SFN: 2601745	PROJECT: FUL-120-14.08		STATION / OFFSET: 743+06, 10' RT.		START: 10/7/20			END: 10/7/20			PG 3 OF 3		B-001-0-20										
MATERIAL DESCRIPTION AND NOTES					ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)			ATTERBERG		WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED					
HARD, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP (continued)					654.8	65	12	39	100	SS-22	4.50	-	-	-	-	-	-	-	11	A-6b (V)	-				
						66	18																		
						67																			
						68																			
						69	15	54	100	SS-23	4.50	-	-	-	-	-	-	-	-	-	-		11	A-6b (V)	-
						70	20																		
						71	22																		
						72																			
						73																			
						74	20	95	89	SS-24	4.50	-	-	-	-	-	-	-	-	-	-		8	A-4a (V)	-
HARD, GRAY, SANDY SILT, LITTLE CLAY AND TRACE GRAVEL, DAMP					646.0	75	29																		
						76	45																		
						77																			
						78																			
						79	30	90	100	SS-25	4.50	-	-	-	-	-	-	-	-	-		11	A-4a (V)	-	
						EOB	32																		
						639.0	38																		

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 1/14/22 14:47 - S:\PROJECTS\1987301.GPJ

NOTES: "NI" - UNCONFINED STRENGTH DETERMINED BY ASTM D 2166. "NI" - NOT INTACT
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.25 BAG ASPHALT PATCH; PUMPED 23 CF BENTONITE GROUT



PROJECT: FUL-120-14.08		DRILLING FIRM / OPERATOR: TTL / JW		DRILL RIG: CME 550X ATV		STATION / OFFSET: 743+78, 11' L.T.		EXPLORATION ID: B-002-0-20									
TYPE: BRIDGE		SAMPLING FIRM / LOGGER: TTL / KKC		HAMMER: CME AUTOMATIC		ALIGNMENT: SR 120											
PID: 101140 SFN: 2601745		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 2/20/19		ELEVATION: 719.3 (NAV/D88) EOB: 1.0 ft.		PAGE: 1 OF 1									
START: 10/7/20 END: 10/7/20		SAMPLING METHOD: SPT		ENERGY RATIO (%): 77.3		COORD: 748261.5900 N. 1583326.6100 E											
MATERIAL DESCRIPTION AND NOTES		ELEV.	DEPTHS	SPT/ RQD	REC SAMPLE ID	N ₆₀	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ABAN-DOINED
		719.3															
ASPHALT - 2 INCHES		719.1	-	-													
REINFORCED CONCRETE - 10 INCHES		718.3	-	-													

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 1/14/22 14:53 - S:\PROJECTS\1987301.GPJ

NOTES: BORING TERMINATED AT 1.0' DUE TO REBAR.

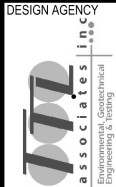
ABANDONMENT METHODS, MATERIALS, QUANTITIES: 0.5 BAG ASPHALT PATCH

PROJECT: FUL-120-14.08			DRILLING FIRM / OPERATOR: TTL / JW			DRILL RIG: CME 550X ATV			STATION / OFFSET: 743+90, 16' LT.			EXPLORATION ID														
TYPE: BRIDGE			SAMPLING FIRM / LOGGER: TTL / KKC			HAMMER: CME AUTOMATIC			ALIGNMENT: SR 120			B-002-1-20														
PID: 101140 SFN: 2601745			DRILLING METHOD: 3.25" HSA			CALIBRATION DATE: 2/20/19			ELEVATION: 719.1 (NAVD88) EOB: 80.0 ft.			PAGE														
START: 10/7/20 END: 10/8/20			SAMPLING METHOD: SPT			ENERGY RATIO (%): 77.3			COORD: 748261.2500 N, 1583339.1000 E			1 OF 3														
MATERIAL DESCRIPTION AND NOTES						ELEV.	DEPTHS	SPT/ RQD	REC N ₆₀	REC SAMPLE ID	HP (tsf)	GRADATION (%)			ATTERBERG			ODOT CLASS (gl)	WC	SO ₄ ppm	HOLE SEALED					
ASPHALT - 6 INCHES CONCRETE - 3 INCHES MEDIUM STIFF, GRAY, SILTY CLAY, SOME SAND AND TRACE CRUSHED STONE, MOIST FILL MEDIUM STIFF, GRAY, SANDY SILT, SOME CRUSHED STONE, LITTLE CLAY, TRACE ASPHALT AND BRICK FRAGMENTS, MOIST FILL SOFT TO MEDIUM STIFF, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, MOIST @6.5': MEDIUM STIFF						719.1																				
						718.6	1	2	6	100	SS-1	3.00														
						718.3	2	3	3																	
						716.6	3	4	8	100	SS-2	0.50	22	20	10	36	12	21	13	8	13	A-4a (3)	-			
						715.1	4	3	4																	
							5	0	4	100	SS-3	1.00	2	6	11	21	60	33	17	16	23	A-6b (10)	-			
							6	1	2																	
							7	0	5	100	SS-4	1.00	-	-	-	-	-	-	-	-	26	A-6b (V)	-			
							8	0	4																	
							9	4	13	100	SS-5	4.50	-	-	-	-	-	-	-	-	14	A-6a (V)	-			
STIFF TO VERY STIFF, BROWN, SILT AND CLAY, SOME SAND AND LITTLE GRAVEL, MOIST VERY STIFF TO HARD, GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL, IRON OXIDE STAIN STEAM, DAMP						708.1	10	5																		
							11	8	26	100	SS-6	4.50	-	-	-	-	-	-	-	12	A-6a (V)	-				
							12	12																		
							13	5																		
							14	8	24	100	SS-7	4.50	3	9	19	25	44	27	13	14	12	A-6a (8)	-			
							15	11																		
							16	10	27	100	SS-8	4.50	8	6	14	26	46	26	11	15	12	A-6a (9)	-			
							17	13																		
							18	3																		
							19	6	21	100	SS-9	4.50	0	9	20	27	44	26	8	18	13	A-6b (10)	-			
@21': LITTLE SAND, TRACE GRAVEL							20	10																		
							21	5	22	100	SS-10	4.50	-	-	-	-	-	-	-	13	A-6b (V)	-				
							22	7																		
							23	10																		
							24	5	23	100	SS-11	4.50	-	-	-	-	-	-	-	13	A-6b (V)	-				
							25	6																		
							26	12																		
							27	8	24	100	SS-12	2.43*	-	-	-	-	-	-	-	12	A-6b (V)	-				
							28	11																		
							29	7	23	100	SS-13	3.00	-	-	-	-	-	-	-	13	A-6b (V)	-				
@26.0': VERY STIFF																										
@28.5': LITTLE GRAVEL																										

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT.GDT - 1/14/22 15:01 - S:\PROJECTS\1987301.GPJ

PID: 101140	SFN: 2601745	PROJECT: FUL-120-14.08	STATION / OFFSET: 743+90, 16' LT.	START: 10/7/20	END: 10/8/20	PG 2 OF 3	B-002-1-20												
MATERIAL DESCRIPTION AND NOTES			ELEV. 688.1	DEPTHS	SPT/ RQD	REC N ₆₀	REC SAMPLE ID	HP (tsf)	GRADATION (%)				ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED
VERY STIFF TO HARD, GRAY, SILTY CLAY, SOME SAND, DAMP (continued)	@33.5': VERY STIFF TO HARD																		
HARD, GRAY, SILTY CLAY, SOME SAND, TRACE GRAVEL, DAMP																			
@53.5': LITTLE SAND AND GRAVEL																			

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT.GDT - 1/14/22 15:01 - S:\PROJECTS\1987301.GPJ



DESIGNER

TRR

REVIEWER

CPI 01/22

PROJECT ID

101140

SHEET

51

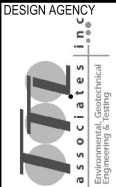
TOTAL

55

PID:	101140	SFN:	2601745	PROJECT:	FUL-120-14.08	STATION / OFFSET:		743+90.16' LT.	START:			10/7/20	END:			10/8/20	PG 3 OF 3	B-002-1-20						
MATERIAL DESCRIPTION AND NOTES					ELEV.	DEPTHS	SPT/ RQD	REC N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)			ATTERBERG			WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED			
HARD, GRAY, SILTY CLAY, SOME SAND, TRACE GRAVEL, DAMP (continued)					654.9	- 65	14	39	89	SS-20	4.50	-	-	-	-	-	-	12	A-6b (V)	-				
						- 66																		
						- 67																		
						- 68																		
						- 69	11	46	94	SS-21	4.50	-	-	-	-	-	-	-	-	-	12	A-6b (V)	-	
						- 70	15	21																
						- 71																		
						- 72																		
						- 73																		
						- 74	22	72	83	SS-22	4.50	-	-	-	-	-	-	-	-	-	10	A-4a (V)	-	
HARD, GRAY, SANDY SILT, LITTLE CLAY AND TRACE GRAVEL, MOIST					645.6	- 75	26	30																
						- 76																		
						- 77																		
						- 78																		
						- 79	24	79	78	SS-23	4.50	-	-	-	-	-	-	-	-	-	7	A-4a (V)	-	
@78.5': LITTLE GRAVEL					639.1	- 80	29	32																
						EOB																		

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 1/14/22 15:01 - S:\PROJECTS\1987301.GPJ

NOTES: ¹net - UNCONFINED STRENGTH DETERMINED BY ASTM D 2166.
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.5 BAG ASPHALT PATCH; PUMPED 23 CF BENTONITE GROUT



PROJECT: FUL-120-14.08		DRILLING FIRM / OPERATOR:		TTL / TB		DRILL RIG: CME 75 TRUCK 111		STATION / OFFSET: 743+87, 32' LT.		EXPLORATION ID	
TYPE: RETAINING WALL		SAMPLING FIRM / LOGGER:		TTL / KKC		HAMMER: CME AUTOMATIC		ALIGNMENT: SR 120		X-003-0-20	
PID: 101140 SFN: 2601745		DRILLING METHOD: 3.25" HSA		SPT		CALIBRATION DATE: 2/20/19		ELEVATION: 719.2 (NAVD88) EOB: 23.5 ft.		PAGE	
START: 10/9/20 END: 10/9/20		SAMPLING METHOD:		SPT		ENERGY RATIO (%): 70.8		COORD: 748277.4800 N, 1583342.4600 E		1 OF 1	
MATERIAL DESCRIPTION AND NOTES				ELEV.		SPT/ RQD		GRADATION (%)		ODOT CLASS (gl)	
ASPHALT - 1 INCH CRUSHED STONE - 35 INCHES				719.2		1		GR		WC	
				719.1		2		CS		PI	
BROWN, SILTY CLAY, SOME SAND, LITTLE CRUSHED STONE, AND TRACE BRICK FRAGMENTS FILL				716.2		3		FS		LL	
						4		SI		CL	
GRAY, SILTY CLAY, SOME SAND				712.7		5					
						6					
BROWN, SILT AND CLAY, LITTLE SAND						7					
						8					
@14": GRAY						9					
						10					
						11					
						12					
				707.2		13					
						14					
						15					
						16					
						17					
						18					
						19					
						20					
						21					
						22					
						23					
						EOB					
				695.7							

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT.GDT - 1/14/22 15:02 - S:\PROJECTS\1987301.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.25 BAG ASPHALT PATCH; PUMPED 7 CF BENTONITE GROUT

PROJECT: FUL-120-14.08		DRILLING FIRM / OPERATOR: TTL / TB		DRILL RIG: CME 75 TRUCK 111		STATION / OFFSET: 743+85, 33' LT.		EXPLORATION ID	
TYPE: RETAINING WALL		SAMPLING FIRM / LOGGER: TTL / KKC		HAMMER: CME AUTOMATIC		ALIGNMENT: SR 120		X-003-1-20	
PID: 101140 SFN: 2601745		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 2/20/19		ELEVATION: 718.9 (NAV D88) EOB: 23.5 ft.		PAGE	
START: 10/9/20 END: 10/9/20		SAMPLING METHOD: SPT		ENERGY RATIO (%): 70.8		COORD: 748278.8900 N, 1583341.2000 E		1 OF 1	
MATERIAL DESCRIPTION AND NOTES		ELEV.		SPT/ RQD		GRADATION (%)		ODOT CLASS (GI)	
ASPHALT - 1 INCH CRUSHED STONE - 35 INCHES (WITH CONCRETE FRAGMENTS)		718.9		1		GR		WC	
		715.9		2		CS		PI	
BROWN, SILTY CLAY, SOME SAND, LITTLE CRUSHED STONE FILL		712.4		3		FS		LL	
				4		SI		PL	
GRAY, SILTY CLAY, SOME SAND AND LITTLE GRAVEL				5					
				6					
GRAY, SILT AND CLAY, LITTLE SAND				7					
				8					
@16: TRACE GRAVEL				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					
				23					
		695.4		EOB					

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - 1/14/22 15:03 - S:\PROJECTS\1987301.GPJ

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.25 BAG ASPHALT PATCH; PUMPED 7 CF BENTONITE GROUT

[illegible]

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 1/14/22 15:04 - S:\PROJECTS\1987301.GPJ

NOTES: ¹¹x11 - UNCONFINED STRENGTH DETERMINED BY ASTM D 2166.

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 0.25 BAG ASPHALT PATCH; PLACED 1 BAG BENTONITE CHIPS