

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.

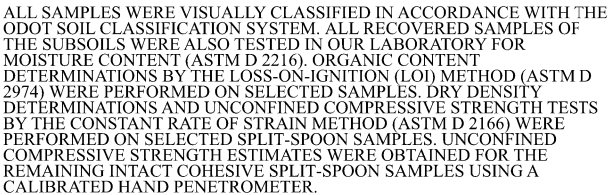
BEDROCK IN THE PROJECT AREA IS BROADLY MAPPED ON THE "GEOLOGIC MAP OF OHIO" AS DEVONIAN-AGE OLENTANGY AND OHIO SHALES. BEDROCK AT THE SITE IS MAPPED AT ELEV. 620±, CORRESPONDING TO DEPTHS ON THE ORDER OF APPROXIMATELY 100 FEET BELOW EXISTING GRADES. A LOG FOR A NEARBY WATER WELL INDICATED SHALE BEDROCK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

Remove ST. No ST samples for this project.

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 UTILIZING 3/4-INCH INSIDE DIAMETER HOLLOW-STEM AUGERS. IN BORINGS B-001 AND B-002-1, SAMPLES WERE 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 SCAUR. IN BORING B-004, SAMPLES WERE OBTAINED AT 2 1/2-FOOT INTERVALS TO A DEPTH OF 10 FEET, AND 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 550X) WAS 77.3 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.



LABORATORY TESTING WAS PERFORMED IN ACCORDANCE WITH GB-1 "PLAN SUBGRADES" CRITERIA, INCLUDING MECHANICAL SOIL CLASSIFICATION CONSISTING OF AN ATTERBERG LIMITS TEST (ASTM D 4318) AND A PARTICLE SIZE ANALYSIS (ASTM D 422) (FOR COHESIVE SOIL SAMPLES) FOR AT LEAST TWO SAMPLES FROM BORINGS B-001 AND B-002-1 WITHIN 6 FEET OF THE PROPOSED SUBGRADE. COMPLETE CLASSIFICATION TESTING WAS ALSO PERFORMED FOR SELECTED SAMPLES DEEPER IN THE SUBSOIL PROFILE.

THE BORINGS ENCOUNTERED SURFACE MATERIALS CONSISTING OF ASPHALT RANGING IN THICKNESS FROM 1 TO 7 INCHES. CONCRETE AND AGGREGATE BASE WERE ENCOUNTERED UNDERLYING THE ASPHALT IN SOME OF THE BORINGS WITH VARYING THICKNESSES. A DESCRIPTION OF THE SURFACE MATERIALS AND THEIR THICKNESSES ARE SUMMARIZED IN THE FOLLOWING TABLE.

N.E. = NOT ENCOUNTERED
NOTES:
1) BORING B-002-0 WAS TERMINATED AT A DEPTH OF APPROXIMATELY 12 INCHES FROM THE TOP OF PAVEMENT IN THE REINFORCED CONCRETE LAYER DUE TO ENCOUNTERED REBAR.
2) BORINGS X-003-0 AND X-003-1 WERE PERFORMED IN AN AREA OF DELIPIDATED ASPHALT BETWEEN THE PARKING AREA AND A GUARDRAIL AT THE TOP OF THE RETAINING WALL.

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

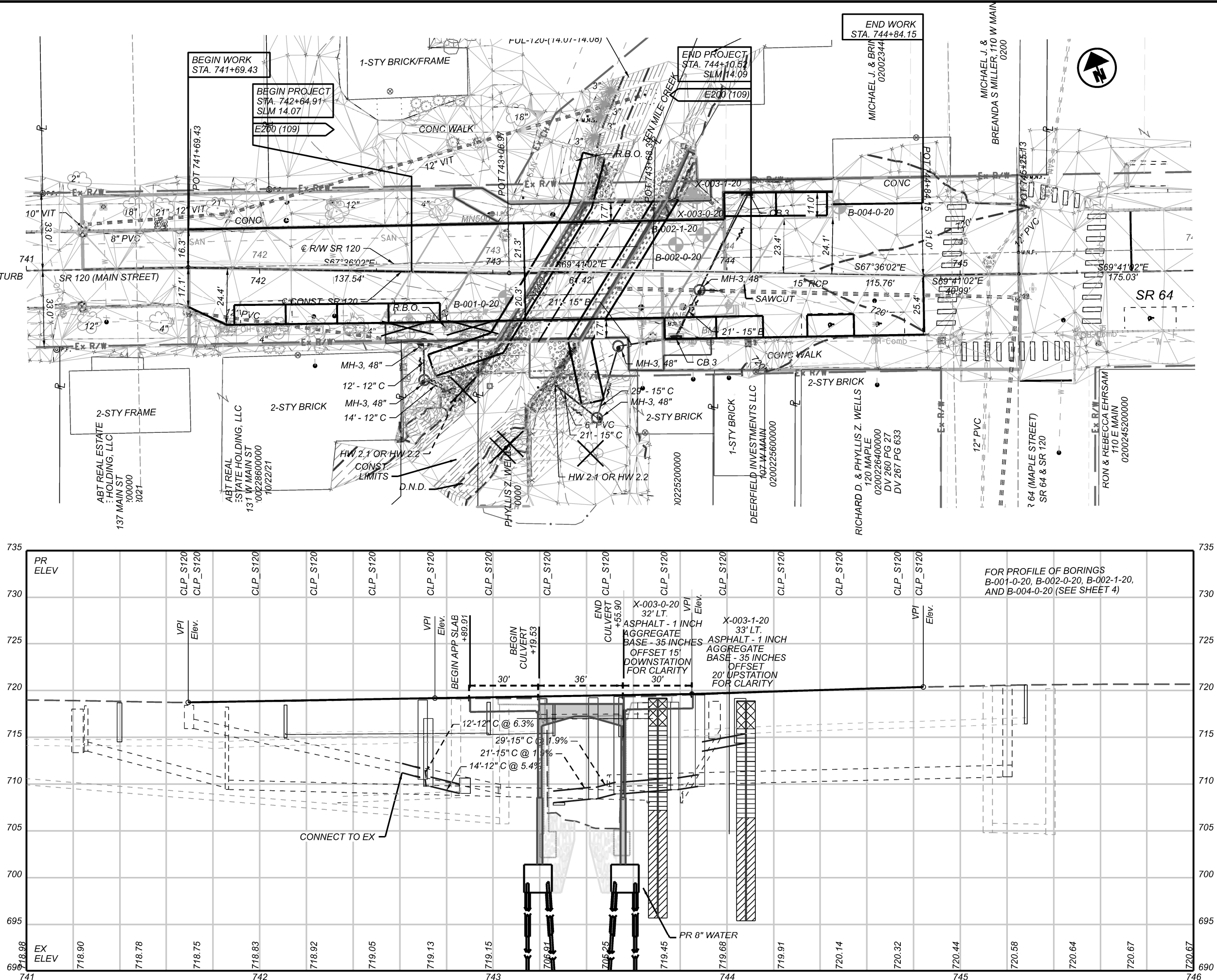


Move to bottom right of first page. They want this always on the first page.

Between the two lines...
FUL-120-1408 OVER TENMILE CREEK

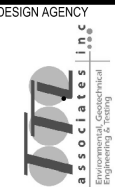


LEGEND
D.N.D. = DO NOT DISTURB
R.B.O. = RELOCATED BY OTHERS

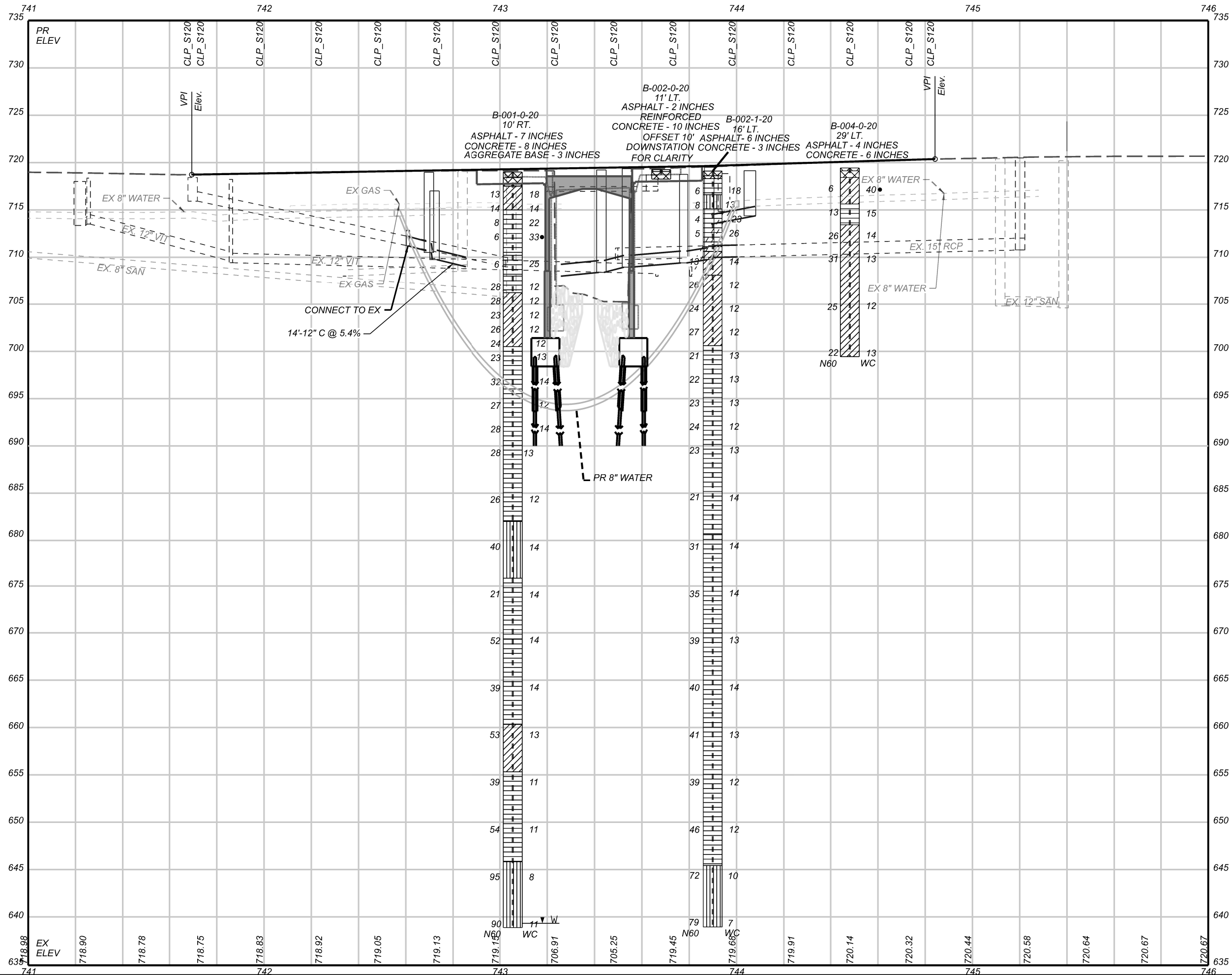


SOIL PROFILE - ROADWAY
FUL-120-1408 OVER TENMILE CREEK
PLAN AND PROFILE - AUGER BORINGS

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

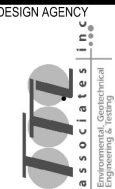


DESIGNER	TRR
REVIEWER	CPI 01/22
PROJECT ID	101140
SHEET	46
TOTAL	55



SOIL PROFILE - ROADWAY
FUL-120-1408 OVER TENMILE CREEK
PROFILE - TEST BORINGS

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



DESIGNER	TRR
REVIEWER	CPI
PROJECT ID	101140
SHEET	47
TOTAL	55

PROJECT: FUL-120-14.08				DRILLING FIRM / OPERATOR: TTL / JW				DRILL RIG: CME 550X ATV				STATION / OFFSET: 743+06, 10' RT.				EXPLORATION ID													
TYPE: BRIDGE				SAMPLING FIRM / LOGGER: TTL / KKC				HAMMER: CME AUTOMATIC				ALIGNMENT: SR 120				B-001-0-20													
PID: 101140 SFN: 2601745				DRILLING METHOD: 3.25" HSA				CALIBRATION DATE: 2/20/19				ELEVATION: 719.0 (NAVD88) EOB: 80.0 ft.				PAGE													
START: 10/7/20 END: 10/7/20				SPT				ENERGY RATIO (%): 77.3				COORD: 748267.0200 N, 1583250.6700 E				1 OF 3													
MATERIAL DESCRIPTION AND NOTES				ELEV.		DEPTHS		SPT/ RQD		REC N ₆₀		SAMPLE ID		HP (tsf)		GRADATION (%)		ATTERBERG		WC		ODOT CLASS (G)		SO4 ppm		HOLE SEALED			
ASPHALT - 7 INCHES CONCRETE - 8 INCHES CRUSHED STONE - 3 INCHES STIFF, BROWN, SILT AND CLAY, LITTLE SAND AND TRACE CRUSHED STONE, MOIST FILL @2.5": "AND" SAND, DAMP 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%)				719.0		1		2		13		SS-1		3.50		1 7 11 23 58		29 15 14		18		A-6a (10)		2400					
				718.4		2		4		6		28		SS-2		NI		8 16 20 22 34		26 14 12		14		A-6a (5)		580			
				717.7		3		6		5		14		SS-3		1.25		- - - - -		- - - - -		22		A-6b (V)		-			
				717.5		4		2		4		8		SS-4		0.75		- - - - -		- - - - -		33		A-6b (V)		-			
				715.0		5		2		2		6		SS-5		0.50		- - - - -		- - - - -		25		A-6b (V)		-			
				710.2		6		2		3		6		SS-6		4.90*		- - - - -		- - - - -		12		A-6b (V)		-			
				708.0		7		3		10		28		SS-7		4.50		- - - - -		- - - - -		12		A-6a (V)		-			
				706.2		8		11		12		23		SS-8		4.50		2 10 24 25 39		26 11 15		12		A-6a (8)		-			
				700.5		9		15		10		26		SS-9		4.50		5 8 19 27 41		26 12 14		12		A-6a (7)		-			
				700.5		10		12		8		24		SS-10		4.50		10 7 18 24 41		26 14 12		12		A-6b (V)		-			
@17": LITTLE GRAVEL				700.5		11		23		SS-11		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-					
				700.5		12		10		32		SS-12		4.50		- - - - -		- - - - -		- - - - -		14		A-6b (V)		-			
				700.5		13		13		27		SS-13		4.67*		- - - - -		- - - - -		- - - - -		12		A-6b (V)		-			
				700.5		14		13		28		SS-14		3.75		- - - - -		- - - - -		- - - - -		14		A-6b (V)		-			
				700.5		15		12		28		SS-15		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-			
				700.5		16		12		28		SS-15		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-			
				700.5		17		12		28		SS-15		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-			
				700.5		18		12		28		SS-15		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-			
				700.5		19		12		28		SS-15		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-			
				700.5		20		12		28		SS-15		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-			
VERY STIFF TO HARD, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP				700.5		21		32		SS-12		4.50		- - - - -		- - - - -		- - - - -		14		A-6b (V)		-					
				700.5		22		13		27		SS-13		4.67*		- - - - -		- - - - -		- - - - -		12		A-6b (V)		-			
				700.5		23		13		27		SS-13		4.67*		- - - - -		- - - - -		- - - - -		12		A-6b (V)		-			
				700.5		24		8		27		SS-13		4.67*		- - - - -		- - - - -		- - - - -		12		A-6b (V)		-			
				700.5		25		13		27		SS-13		4.67*		- - - - -		- - - - -		- - - - -		12		A-6b (V)		-			
				700.5		26		7		28		SS-14		3.75		- - - - -		- - - - -		- - - - -		14		A-6b (V)		-			
				700.5		27		10		28		SS-14		3.75		- - - - -		- - - - -		- - - - -		14		A-6b (V)		-			
				700.5		28		12		28		SS-14		3.75		- - - - -		- - - - -		- - - - -		14		A-6b (V)		-			
				700.5		29		7		28		SS-15		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-			
				700.5		30		12		28		SS-15		4.50		- - - - -		- - - - -		- - - - -		13		A-6b (V)		-			

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

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			ODOT CLASS (gi)	SO4 ppm	HOLE SEALED			
VERY STIFF TO HARD, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP (continued)					688.0	32																	
						33																	
						34	5	9	26	100	SS-16	4.50									12	A-6b (V)	-
						35	11																
						36																	
HARD, GRAY, SANDY SILT, "AND" CLAY, DAMP					682.0	37																	
						38																	
						39	17	40	100	SS-17	4.00										14	A-4a (8)	-
						40	14																
						41																	
VERY STIFF TO HARD, GRAY, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP					676.0	42																	
						43																	
						44	4	7	21	100	SS-18	4.50									14	A-6b (V)	-
						45	9																
						46																	
HARD, GRAY, SILTY CLAY, SOME SAND AND TRACE GRAVEL, DAMP					669.5	47																	
						48																	
						49	9	23	52	100	SS-19	4.25									14	A-6b (V)	-
						50	17																
						51																	
@53.5': LITTLE SAND					660.5	52																	
						53																	
						54	9	13	39	100	SS-20	4.50									14	A-6b (V)	-
						55	17																
						56																	
HARD, GRAY, SILT AND CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP					660.5	57																	
						58																	
						59	11	17	53	17	SS-21	5.44*	2	3	7	22	66	28	13	15	A-6a (10)	-	
						60	24																
						61																	
					655.5	62																	
						63																	
						64	9																

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

Between the two lines...

FUL-120-1408 OVER TENMILE CREEK



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	GR	CS	FS	SI	CL	LL	PL	PI	11	A-6b (V)	-					
						66	13																				
						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																				
						639.5	38																				
						639.0																					

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

Between the two lines...
FUL-120-1408 OVER TENMILE CREEK

PROJECT: FUL-120-14.08		DRILLING FIRM / OPERATOR:		TTL / JW		DRILL RIG: CME 550X ATV		STATION / OFFSET: 743+78, 11' LT.		EXPLORATION ID			
TYPE: BRIDGE		SAMPLING FIRM / LOGGER:		TTL / KKC		HAMMER: CME AUTOMATIC		ALIGNMENT: SR 120		B-002-0-20			
PID: 101140 SFN: 2601745		DRILLING METHOD: 3.25" HSA				CALIBRATION DATE: 2/20/19		ELEVATION: 719.3 (NAVD88) EOB: 1.0 ft.		PAGE			
START: 10/7/20 END: 10/7/20		SAMPLING METHOD: SPT				ENERGY RATIO (%): 77.3		COORD: 748261.5900 N, 1583326.6100 E		1 OF 1			
MATERIAL DESCRIPTION AND NOTES				ELEV.		REC SAMPLE HP		GRADATION (%)		ODOT			
ASPHALT - 2 INCHES REINFORCED CONCRETE - 10 INCHES				719.3		N ₆₀ (%)		GR CS FS SI CL LL PL PI		CLASS (G)			
				719.1						WC		SO4	
				718.3								DONED	
				DEPTHS		SPT/ RQD							
				1		1							
				EOB									

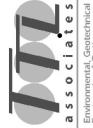
STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT.GDT - 1/14/22 14:53 - S:\PROJECTS\1987301.GPJ

NOTES: BORING TERMINATED AT 1.0' DUE TO REBAR.

ABANDONMENT METHODS. MATERIALS. QUANTITIES: 0.5 BAG ASPHALT PATCH

01/22

50



DESIGN AGENCY

DESIGNER

TRR

REVIEWER

CPI

PROJECT ID

101140

SHEET

50

TOTAL

43

Between the two lines...
FUL-120-1408 OVER TENMILE CREEK

SOIL PROFILE - ROADWAY
BORING LOG B-002-0-20

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: 748281.2500 N, 1583339.1000 E			1 OF 3					
MATERIAL DESCRIPTION AND NOTES			ELEV.			SPT/ RQD			GRADATION (%)			ATTERBERG			HOLE SEALED		
			719.1						GR CS FS SI CL LL PL PI WC			ODOT CLASS (G) SO4 ppm					
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			718.6			1											
			718.3			2											
			716.6			3											
			715.1			4											
						5											
						6											
						7											
						8											
						9											
						10											
STIFF TO VERY STIFF, BROWN, SILT AND CLAY, SOME SAND AND LITTLE GRAVEL, MOIST			710.6			11											
						12											
						13											
						14											
						15											
						16											
						17											
						18											
						19											
						20											
VERY STIFF TO HARD, GRAY, SILTY CLAY, SOME SAND, DAMP			708.1			21											
						22											
						23											
						24											
						25											
						26											
						27											
						28											
						29											
						30											
VERY STIFF TO HARD, GRAY, SILTY CLAY, SOME SAND, DAMP			700.6			31											
						32											
						33											
						34											
						35											
						36											
						37											
						38											
						39											
						40											
@21": LITTLE SAND, TRACE GRAVEL						41											
						42											
						43											
						44											
						45											
						46											
						47											
						48											
						49											
						50											
@26.0": VERY STIFF						51											
						52											
						53											
						54											
						55											
						56											
						57											
						58											
						59											
						60											
@28.5": LITTLE GRAVEL						61											
						62											
						63											
						64											
						65											
						66											
						67											
						68											
						69											
						70											

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

Between the two lines...

FUL-120-1408 OVER TENMILE CREEK

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 (%)				WC	ODOT CLASS (GI)	SO4 ppm	HOLE SEALED					
HARD, GRAY, SILTY CLAY, SOME SAND, TRACE GRAVEL, DAMP (continued)					654.9		14	39	89	SS-20	4.50	GR	CS	FS	SI	CL	LL	PL	12	A-6b (V)	-			
							16																	
							65																	
							66																	
							67																	
							68																	
							69	11	46	94	SS-21	4.50												
							70	15	21															
@68.5': SOME SAND					645.6																			
							71																	
							72																	
							73																	
							74	22	72	83	SS-22	4.50												
							75	26	30															
							76																	
							77																	
HARD, GRAY, SANDY SILT, LITTLE CLAY AND TRACE GRAVEL, MOIST					645.6																			
							78																	
							79	24	79	78	SS-23	4.50												
							80	29	32															
							EOB																	
@78.5': LITTLE GRAVEL					639.1																			

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

Between the two lines...
FUL-120-1408 OVER TENMILE CREEK

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				CS		PI	
BROWN, SILTY CLAY, SOME SAND, LITTLE CRUSHED STONE, AND TRACE BRICK FRAGMENTS FILL				716.2		2		FS		LL	
								SI		CL	
GRAY, SILTY CLAY, SOME SAND				712.7		3		GR		WC	
								CS		PI	
BROWN, SILT AND CLAY, LITTLE SAND				707.2		4		GR		WC	
								CS		PI	
@14": GRAY						5		GR		WC	
								CS		PI	
						6		GR		WC	
								CS		PI	
						7		GR		WC	
								CS		PI	
						8		GR		WC	
								CS		PI	
						9		GR		WC	
								CS		PI	
						10		GR		WC	
								CS		PI	
						11		GR		WC	
								CS		PI	
						12		GR		WC	
								CS		PI	
						13		GR		WC	
								CS		PI	
						14		GR		WC	
								CS		PI	
						15		GR		WC	
								CS		PI	
						16		GR		WC	
								CS		PI	
						17		GR		WC	
								CS		PI	
						18		GR		WC	
								CS		PI	
						19		GR		WC	
								CS		PI	
						20		GR		WC	
								CS		PI	
						21		GR		WC	
								CS		PI	
						22		GR		WC	
								CS		PI	
						23		GR		WC	
								CS		PI	
				695.7		EOB					

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

Between the two lines...

FUL-120-1408 OVER TENMILE CREEK

[illegible]

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 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

Between the two lines...
FUL-120-1408 OVER TENMILE CREEK

PROJECT: FUL-120-14.08		DRILLING FIRM / OPERATOR:		TTL / TB		DRILL RIG: CME 75 TRUCK 111		STATION / OFFSET: 744+48, 29' LT.		EXPLORATION ID	
TYPE: BUILDING		SAMPLING FIRM / LOGGER:		TTL / KKC		HAMMER: CME AUTOMATIC		ALIGNMENT: SR 120		B-004-0-20	
PID: 101140 SFN: 2601745		DRILLING METHOD: 3.25" HSA				CALIBRATION DATE: 2/20/19		ELEVATION: 719.4 (NAVD88) EOB: 20.0 ft.		PAGE	
START: 10/9/20 END: 10/9/20		SAMPLING METHOD: SPT				ENERGY RATIO (%): 70.8		COORD: 748251.2300 N, 1583397.6600 E		1 OF 1	
MATERIAL DESCRIPTION AND NOTES				ELEV.		SPT/ RQD		GRADATION (%)		ODOT CLASS (gl)	
				719.4		DEPTHS		GR CS FS SI CL PL PI		W/C	
ASPHALT - 4 INCHES				719.1		1					
CONCRETE - 8 INCHES				718.4		2					
MEDIUM STIFF, DARK BROWN, SILT AND CLAY, WITH WOOD, LITTLE SAND, AND TRACE CRUSHED STONE, WET FILL.						3				40 A-6a (V)	
(HIGHLY ORGANIC, ORGANIC CONTENT = 11.7%)				715.6		4					
STIFF TO VERY STIFF, BROWN, SILTY CLAY, LITTLE SAND AND TRACE GRAVEL, DAMP						5				15 A-6b (V)	
				713.4		6					
VERY STIFF TO HARD, BROWN, SILT AND CLAY, SOME SAND AND TRACE GRAVEL, DAMP						7				14 A-6a (V)	
@8.5': HARD						8					
						9					
						10				13 A-6a (V)	
						11					
						12					
						13					
						14					
						15					
						16					
						17					
						18					
						19					
						20					
				699.4		3				13 A-6a (V)	
						8					
						11					
						14					
						15					
						16					
						17					
						18					
						19					
						20					
						21					
						22					
						23					
						24					
						25					
						26					
						27					
						28					
						29					
						30					
						31					
						32					
						33					
						34					
						35					
						36					
						37					
						38					
						39					
						40					
						41					
						42					
						43					
						44					
						45					
						46					
						47					
						48					
						49					
						50					
						51					
						52					
						53					
						54					
						55					
						56					
						57					
						58					
						59					
						60					
						61					
						62					
						63					
						64					
						65					
						66					
						67					
						68					
						69					
						70					
						71					
						72					
						73					
						74					
						75					
						76					
						77					
						78					
						79					
						80					
						81					
						82					
						83					
						84					
						85					
						86					
						87					
						88					
						89					
						90					
						91					
						92					
						93					
						94					
						95					
						96					
						97					
						98					
						99					
						100					
						101					
						102					
						103					
						104					
						105					
						106					
						107					
						108					
						109					
						110					
						111					
						112					
						113					
						114					
						115					
						116					
						117					
						118					
						119					
						120					
						121					
						122					
						123					
						124					
						125					
						126					
						127					
						128					
						129					
						130					
						131					
						132					
						133					
						134					
						135					
						136					
						137					
						138					
						139					
						140					
						141					
						142					
						143					
						144					
						145					
						146					
						147					
						148					
						149					
						150					
						151					
						152					
						153					
						154					
						155					
						156					
						157					
						158					
						159					
						160					
						161					
						162					
						163					
						164					
						165					
						166					
						167					
						168					
						169					
						170					
						171					
						172					
						173					
						174					
						175					
						176					
						177					
						178					
						179					
						180					
						181					
						182					
						183					
						184					
						185					
						186					
						187					
						188					
						189					
						190					
						191					
						192					
						193					
						194					
						195					
						196					
						197					
						198					
						199					
						200					
						201					
						202					
						203					
						204					
						205					
						206					
						207					
						208					
						209					
						210					
						211					
						212					
						213					
						214					
						215					
						216					
						217					
						218					
						219					
						220					
						221					
						222					
						223					
						224					
						225					
						226					
						227					
						228					
						229					
						230					
						231					
						232					
						233					
						234					
						235					
						236					
						237					
						238					
						239					
						240					
						241					
						242					
						243					
						244					
						245					
						246					
						247					
						248					
						249					
						250					
						251					
						252					
						253					
						254					
						255					
						256					
						257					
						258					
						259					
						260					
						261					