CONTENTS

SHEET NO.

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REFERENCE

TITLE SHEET LEGEND (SOIL & ROCK) 2 SITE PLAN 3 PROFILE 4 5-8 BORE LOGS

DESCRIPTION

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT**

STRUCTURE SUBSURFACE INVESTIGATION

COUNTY COLUMBUS

PROJECT DESCRIPTION BRIDGE NO. 5 ON -L- (US 76) OVER GAPWAY SWAMP AT STA. 18+24.5

STATE PROJECT REFERENCE NO. STATE SHEETS NO. N.C**BR-0073** 8 1

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT 1991 707-6800. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU UNPELACED TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOLI MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOLI MOISTURE CONDITIONS MAY YARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOS NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERRETATIONS MADE, OR OPNION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONSTROST TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY IMINSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

NOTES:

- TES: THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT. BY HAVING REDUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAVES ANY CLAIMS FOR INCREASED COMPENSATION OR STETNISHOR ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE. 2.

PERSONNEL

S.N. ZIMARINO

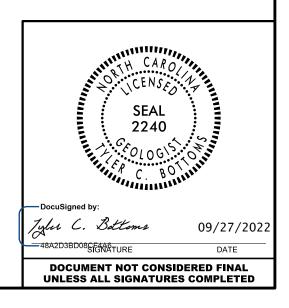
R.E. SMITH

D.G. PINTER

C.M. WALKER

T.W. MILLER

INVESTIGATED BY _____. BOTTOMS DRAWN BY _T.C. BOTTOMS CHECKED BY ______. D.N. ARGENBRIGHT SUBMITTED BY ______. ARGENBRIGHT DATE _______ 2022

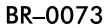


NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION	GRADATION	ROCK DESCRIPTION	TERMS AND DEFINITIONS
SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLICHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO THE STANDARD PENETRATION TEST (AGSHTOT 7206, ASTM DISB6). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM, BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MONISTURE, AGSHTOT CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH	WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE. UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES. ANGULARITY OF GRAINS	HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED. AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS IN NON-COASTAL PLAIN MATERIAL. THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK.	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. AQUIFER - A WATER BEARING FORMATION OR STRATA. ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.
AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE, VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6	THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS:	ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:	ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC.
SOIL LEGEND AND AASHTO CLASSIFICATION	ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.	WEATHERED NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.	ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT
GENERAL GRANULAR MATERIALS SILT-CLAY MATERIALS ORGANIC MATERIALS CLASS. (≤ 35% PASSING *200) (> 35% PASSING *200) (> 35% PASSING *200) ()	MINERALOGICAL COMPOSITION MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC.	CRYSTALLINE FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT	WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.
GROUP A-1 A-3 A-2 A-4 A-5 A-6 A-7 A-1, A-2 A-4, A-5	ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.		CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.
CLASS. A-1-a A-1-b A-2-4 A-2-5 A-2-6 A-2-7 A-7-5 A-3 A-6, A-7		NON-CRYSTALLINE SEDIMENTARY ROCK THAT WOULD SPT REFUSAL IF TESTED.	COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.
SYMBOL	SLIGHTLY COMPRESSIBLE LL < 31 MODERATELY COMPRESSIBLE LL = 31 - 50 HIGHLY COMPRESSIBLE LL > 50	COASTAL PLAIN COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SEDIMENTARY ROCK SPT REFUSAL, ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED	CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED
7. PASSING •10 50 MX GRANULAR SILT- OLV MUCK,	HIGHLY COMPRESSIBLE LL > 50 PERCENTAGE OF MATERIAL	(CP) SHELL BEDS, ETC.	BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE. <u>DIKE</u> - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT
40 30 MX 50 MX 51 MN 35 MX 35 MX 35 MX 35 MX 35 MX 36 MN 36 MN 36 MN 36 MN 36 MN 36 MN	GRANULAR SILT - CLAY ORGANIC MATERIAL SOILS SOILS OTHER MATERIAL	WEATHERING FRESH ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING, ROCK RINGS UNDER	ROCKS OR CUTS MASSIVE ROCK.
MATERIAL	TRACE OF ORGANIC MATTER 2 - 3% 3 - 5% TRACE 1 - 10%	HAMMER IF CRYSTALLINE.	<u>DIP</u> - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.
PASSING *40 - - 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 40 MX 41 MN 11 MN 11 MN 11 MN 10 MX 11 MN 10 MX 11 MN 10 MX 11 MN 10 MX 10	MODERATELY ORGANIC 5 10% 12 20% SOME 20 35% HIGHLY ORGANIC > 10% > 20% HIGHLY 35% AND ABOVE	VERY SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN, (V SLI.) CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.	DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.
URUUP INDEX 0 0 0 4 MX 8 MX 12 MX 16 MX NU MX AMUUNIS UF SOILS		SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO (SLI.) 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR	FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.
USUAL TYPES STORE FRAGS. FINE SILTY OR CLAYEY SILTY CLAYEY MATTER OF MAJOR GRAVEL AND SAND GRAVEL AND SAND SOILS SOILS	✓ WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING ▼ STATIC WATER LEVEL AFTER 24 HOURS	CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.	FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.
	∇ PW PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA	MODERATE SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN (MOD.) GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY, ROCK HAS	<u>FLOAT</u> - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIG1NAL POSITION AND DISLODGED FROM PARENT MATERIAL.
AS SUBGRADE EXCELLENT TO GOUD FAIR TO POUR POOR POUR UNSUITABLE	E	DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED WITH FRESH ROCK.	FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.
PIOF A-7-5 SUBGROUP IS ≤ LL - 30 ;PIOF A-7-6 SUBGROUP IS > LL - 30 CONSISTENCY OR DENSENESS	MISCELLANEOUS SYMBOLS	MODERATELY ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL SEVERE AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH	FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.
COMPACTNESS OF RANGE OF STANDARD RANGE OF UNCONFINED		(MOD.SEV.) AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES 'CLUNK' SOUND WHEN STRUCK.	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.
PRIMARY SOIL TYPE CONFIGENCE COMPRESSIVE STRENGTH CONSISTENCY (N-VALUE) (TONS/FT ²)	ROADWAY EMBANKMENT (RE) 25/025 DIP & DIP DIRECTION WITH SOIL DESCRIPTION OF ROCK STRUCTURES	IF TESTED, WOULD YIELD SPT REFUSAL SEVERE ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED, ROCK FABRIC CLEAR AND EVIDENT BUT	LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.
GENERALLY VERY LOOSE < 4	SOIL SYMBOL	(SEV.) REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN.	LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.
GRANULAR MEDIUM DENSE 10 TO 30 N/A	R ¹	IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF	MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.
(NON-COHESIVE) DENSE 30 TO 50 VERY DENSE > 50	ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT	VERY ALL ROCK EXCEPT OUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE SEVERE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK	PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE
VERY SOFT < 2 < 0.25 GENERALLY SOFT 2 TO 4 0.25 TO 0.5	- INFERRED SOIL BOUNDARY - CORE BORING SOUNDING ROD	(V SEV.) REMAINING, SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR VESTIGES OF ORIGINAL ROCK FABRIC REMAIN. <u>IF TESTED, WOULD YIELD SPT N VALUES < 100 BPF</u>	OF AN INTERVENING IMPERVIOUS STRATUM.
SILT-CLAY MEDIUM STIFF 4 TO 8 0.5 TO 1.0	INFERRED ROCK LINE MONITORING WELL TEST BORING WITH CORE	COMPLETE ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND	<u>RESIDUAL (RES.)SOIL</u> - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. <u>ROCK QUALITY DESIGNATION (ROD)</u> - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF
MATERIAL STIFF 8 T0 15 1 T0 2 (COHESIVE) VERY STIFF 15 T0 30 2 T0 4	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS ALSO AN EXAMPLE.	ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
HARD 30 > 4 TEXTURE OR GRAIN SIZE	RECOMMENDATION SYMBOLS	ROCK HARDNESS	SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT
U.S. STD. SIEVE SIZE 4 10 40 60 200 270	INDEDCUT CONCLASSIFIED EXCAVATION - F UNCLASSIFIED EXCAVATION -	VERY HARD CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.	ROCK. SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND
OPENING (MM) 4.76 2.00 0.42 0.25 0.075 0.053 BOULDER COBBLE GRAVEL COARSE FINE SILT CLAY	WINDERCUT ∠ UNSUITABLE WASTE Larman ACCEPTABLE, BUT NOT TO BE SHALLOW UNCLASSIFIED EXCAVATION - USED IN THE TOP 3 FEET OF USED IN THE TOP 3 FEET OF UNDERCUT LACCEPTABLE DECRADABLE ROCK EMBANKMENT OR BACKFILL	HARD CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED TO DETACH HAND SPECIMEN.	RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS. SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT
(BLDR.) (COB.) (GR.) (CSE. SD.) (F SD.) (SL.) (CL.)	ABBREVIATIONS	MODERATELY CAN BE SCRATCHED BY KNIFE OR PICK. GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE HARD EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED	OR SLIP PLANE.
GRAIN MM 305 75 2.0 0.25 0.05 0.005 SIZE IN. 12 3 3 SOIL MOISTURE - CORRELATION OF TERMS	AR - AUGER REFUSAL MED MEDIUM VST - VANE SHEAR TEST BT - BORING TERMINATED MICA MICACEOUS WEA WEATHERED CL CLAY MOD MODERATELY ✓ UNIT WEIGHT CDT - COUP DEVENDENT LETT NON DUADTICE ✓ DOT UNIT WEIGHT	BY MODERATE BLOWS. MEDIUM CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. HARD CAN BE EXCAVATED IN SMALL CHIPS TO PEICES I INCH MAXIMUM SIZE BY HARD BLOWS OF THE DOINT OF A SERVICE OF CONSTRUCTION OF CONSTRUCTURE OF CONSTRUCTION OF CONSTRUCTURANT OF CONSTRUCTION O	STANDARD PENETRATION TEST (PENETRATION RESISTANCE)(SPI) - NUMBER OF BLOWS (N OR BPF)OF A 140 LB.HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER, SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.
SOIL MOISTURE SCALE FIELD MOISTURE CUIDE FOR FIELD MOISTURE DESCRIPTION	CPT - CONE PENETRATION TEST NP - NON PLASTIC γ_{d} - DRY UNIT WEIGHT CSE COARSE ORG ORGANIC	POINT OF A GEOLOGIST'S PICK. SOFT CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS	STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY
	DMT - DILATOMETER TEST PMT - PRESSUREMETER TEST <u>SAMPLE ABBREVIATIONS</u> DPT - DYNAMIC PENETRATION TEST SAP SAPROLITIC S - BULK	FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN PIECES CAN BE BROKEN BY FINGER PRESSURE.	TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE. STRATA ROCK QUALITY DESIGNATION (SROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL
- SATURATED - USUALLY LIQUID; VERY WET, USUALLY (SAT.) FROM BELOW THE GROUND WATER TABLE	e - VOID RATIO SD SAND, SANDY SS - SPLIT SPOON F - FINE SL SILT, SILTY ST - SHELBY TUBE	VERY CAN BE CARVED WITH KNIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK. PIECES 1 INCH	LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.
	FOSS FOSSILIFEROUS SLI SLIGHTLY RS - ROCK FRAC FRACTURED, FRACTURES TCR - TRICONE REFUSAL RT - RECOMPACTED TRIAXIAL	SOFT OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY FINGERNAIL.	TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
RANGE - WET - (W) SEMISULIU; REUUIKES DATING TO (PI) ATTAIN OPTIMUM MOISTURE	FRAGS FRAGMENTS W - MOISTURE CONTENT CBR - CALIFORNIA BEARING	FRACTURE SPACING BEDDING	BENCH MARK: BL-3
	HI HIGHLY V - VERY RATIO EQUIPMENT USED ON SUBJECT PROJECT	TERM SPACING TERM THICKNESS VERY WIDE MORE THAN 10 FEET VERY THICKLY BEDDED 4 FEET	N 191272.9037 E 1987458.6758 ELEVATION: 68.23 FEET
OM OPTIMUM MOISTURE - MOIST - (M) SOLID; AT OR NEAR OPTIMUM MOISTURE	DRILL UNITS: ADVANCING TOOLS: HAMMER TYPE:	WIDE 3 TO 10 FEET THICKLY BEDDED 1.5 - 4 FEET MODERATELY CLOSE 1 TO 3 FEET THINLY BEDDED 0.16 - 1.5 FEET	
SL SHRINKAGE LIMIT	X CME-45C CLAY BITS X AUTOMATIC MANUAL	CLOSE Ø.16 TO I FOOT VERY THINLY BEDDED Ø.03 - Ø.16 FEET VERY CLOSE LESS THAN Ø.16 FEET THICKLY LAMINATED Ø.008 - Ø.03 FEET	NOTES:
- DRY - (D) ATTAIN OPTIMUM MOISTURE	CME-55	THINLY LAMINATED < 0.008 FEET	
PLASTICITY		INDURATION FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.	
PLASTICITY INDEX (PI) DRY STRENGTH NON PLASTIC 0-5 VERY LOW		RUBBING WITH FINGER FREES NUMEROUS GRAINS;	
SLIGHTLY PLASTIC 6-15 SLIGHT MODERATELY PLASTIC 16-25 MEDIUM		GENILE BLUW BY HAMMER DISINTEGRATES SAMPLE.	
HIGHLY PLASTIC 26 OR MORE HIGH	PORTABLE HOIST X TRICONE 2 15/6* STEEL TEETH HAND AUGER	MODERATELY INDURATED GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.	
COLOR		INDURATED GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE;	
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY).		DIFFICULI TO BREAK WITH HAMMER.	
MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.		EXTREMELY INDURATED SHARP HAMMER BLOWS REGULATION OF BARK SHAPLE:	DATE: 8-15-14

PROJECT REFERENCE NO.



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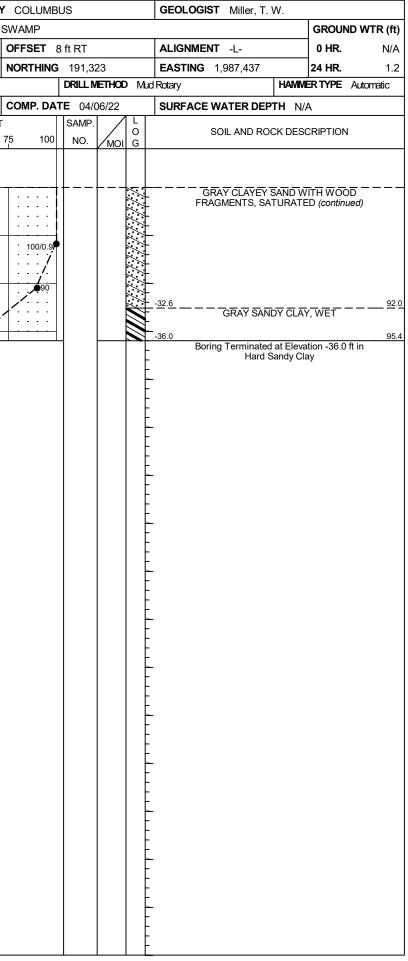
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30 20)()()()()()()()()()	
60 50 40	NSE TAN AND ORANGE SILTY URATED (ROADWAY EMBANKMEN DENSE GRAY SILTY SAND WI TO SATURATED (ALLUVIAL) STIFF TO VERY STIFF	©	C - CONTRACE WATER (B	(, wet (3)		LOOSE TD MEDIL SILTY SAND, MC RY LOOSE TO ME LTY SAND AND C FT-BROWN -SHLT PEEDEE FORMATIC
.70	 PROFILE Pavement	EBI-A 17+37 7′LT	DUGH BORING	GS PROJECT	EB2-B 19+10 6' RT	LONG Pavement

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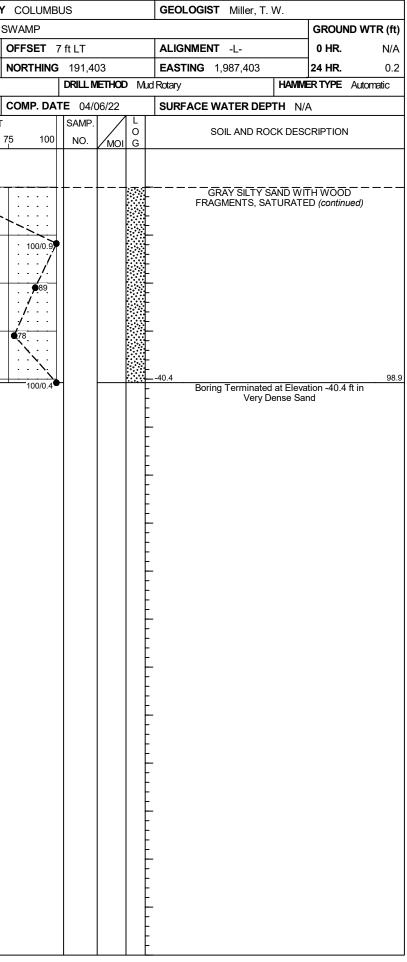
	e=					B F F F F F F F F F F						1] [
	67073					IP BR-0073				BUS		GE	OLOGIST Miller, T. W.		-						• BR-0073	COUNTY
				JGE N		DN -L- (US 76	-	SAPWAY											JGE N			R GAPWAY S
	NG NO.					TATION 17			OFFSET				GNMENT -L-	_							ATION 17+37	C
	LAR EL					OTAL DEPT			NORTHING				STING 1,987,432								DTAL DEPTH 83	
DRILL	. RIG/HAI	MMER EF	F./DAT	E GFC	0075 (CME-45C 87%	11/23/2021				VIETHOD N	lud Rota	y HAMI V	ERTYPE Automatic		L RIG/HAM	MEREF	-F./DATI	E GFO			
DRIL	LER V					TART DATE			COMP. DA			SU	RFACE WATER DEPTH N	GROUND WTR (ft) SITE DESCRIPTION BRIDGE NO. 5 ON 0 HR. N/A BORING NO. EB1-A STA 32 24 HR. 5.6 COLLAR ELEV. 68.1 ft TO HAMMER TYPE Automatic DRILL RIGHAMMER EFF./DATE GF00075 GV DEPTH N/A DRILLER Walker, C. M. STA 0 NCK DESCRIPTION DEPTH (ft) DEPTH (ft) BLOW COUNT 0.5ft 0.5ft 0.5ft 0.5ft 0.5ft 0.5ft 1.2 -10 - - -20 30 10/0.1 0.0UND SURFACE 0.0 - <					ART DATE 04/0			
ELEV	DRIVE	DEPTH	BLC	W CO			BLOWS F			SAMP.	0 11		SOIL AND ROCK DES	CRIPTION		ELEV		BLO	-			VS PER FOOT
(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0 2	25 5	50	75 100	NO.	MOI G	ELEV	. (ft)	DEPTH (fi) (ii)	(ft)	(II)	0.5ft	0.5ft	0.5ft	0 25	50 75
i.																						
70		ł										F			-10	┼ ─── ┤			- -	10/01		Natch Line
1	00.0	† 				<u> </u>						68.1 66.9				‡		20				· · · · · ·
65	66.9	+ 1.2 +	4	5	7							00.9	ROADWAY EMBAN	KMENT		-14.5	82.6					· · · · · · · · · · · ·
00	64.1	4.0	3	3	4							<u>}_</u>	TAN AND ORANGE SILTY TO SATURAT	ED	-10	<u> </u> ‡	-	40	100/0.5		· · · · · ·	•••
		‡			-	● 7 · · ·	· · · ·					1				‡						
60	60.5	<u>+ 7.6</u>	2	2	3							ţ.				_						
		ŧ				● [●]										1						
	55.5	+ 12.6										<u>57.1</u>										
55			3	4	3	1						ł	GRAY SILTY SAND, SA	ATURATED			-					
		Ŧ										52.1		16.0		+						
50	50.5	17.6	4	5	7							Ł	GRAY SANDY AND SILT	Y CLAY WITH								
		Ŧ			'							}	SHELL FRAGMENTS, W FORMATION	1)		+						
		Ŧ										47.1		21.0		7						
45	45.5	<u>+ 22.6</u> +	6	8	12		0					-				-	-					
		ŧ										42.1		26.0		7						
40	40.5	+ 27.6									000			EY SAND AND	1	‡	•					
	-	ŧ	11	24	32			•56			000					+	-					
		‡					· · · · ·				000	37.1		31.0		‡						
35	35.5	<u>+ 32.6</u>	58	100/0.3								ţ				_	-					
		‡							100/0.3					26.0		‡						
	30.5	+ + 37.6										32.1		30.0	1	1						
30		1	15	36	22	1		58				\$ \$				+	-					
		ŧ					· · · · /					27.1		41.0								
25	25.5	42.6	8	12	18		/					Ł	GRAY SANDY CLA	Y, WEI								
		Ŧ		12	10		9 ³⁰					ł										
	00.5	Ŧ.,				,						-				7						
20	20.5	<u>+ 47.6</u> +	7	7	11	1						F				-	-					
1		Ŧ										F				‡						
15	15.5	52.6		40	45	::::\						Ŧ				‡						
15	-	Ŧ	9	12	15		Q 27			11		F					•					
1		‡										<u>12.1</u>			4	‡						
10	10.5	+ 57.6 +	23	23	21			· · · ·				¦∔	WOOD FRAGMENTS, S	SATURATED			-					
5		‡					· · · · ·					} }				‡						
5	5.5	+ 62.6						`∷ :				* *				‡						
5		+	18	23	42	1		65				,} }-				+	-					
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0	0.5	67.6	100/0.3						100/0.3	 		* *					-					
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	4.5	- - 72.6										\$ •										
-5	-4.5	± ′2.6	100/0.3						100/0.3	•		\$ •				-	-					
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-10	-9.5	77.6										Į.				7						
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COLUMBL	JS			GEOLOGIST Miller, T. V	٧.		
SWAMP						GROUN	ID WTR (ft)
OFFSET 7	ft LT			ALIGNMENT -L-		0 HR.	N/A
NORTHING	191,27	74		EASTING 1,987,432		24 HR.	5.6
	DRILL M) Mu				Automatic
COMP. DAT	E 04/0)4/22		SURFACE WATER DEPT	TH N/A	۹	
	SAMP.		L				
75 100	NO.	моі	O G	SOIL AND ROC	K DESC	RIPTION	
· 100/0.6			\sim	GRAY AND GREEN WOOD FRAGME	CLAYE	Y SAND V	VITH — — — D
			\mathbb{N}	(con	tinued)		_
100/0.5				15.5		45.5	83.6
100/0.0			F	Boring Terminated Very Dense	at Elevai Clayey	Sand	πin
			F				
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	67073					TIP BR-0073			COLUME	BUS		GEOL	OGIST Miller, T. W.	1			67073.					P BR-0073		COUNTY
SITE	DESCR	DESCRIPTION BRIDGE NO. 5 ON -L- (US 76) OVER 0 NG NO. B1-B STATION 17+83 AR ELEV. 59.4 ft TOTAL DEPTH 95.4 ft							SWAMP						TR (ft)				BRID	GE N	0.50	N -L- (US 7	6) OVER (GAPWAY SV
BOR	ing no.	B1-B			s	STATION 17+8	83		OFFSET	8 ft RT		ALIGN	IMENT -L-	0 HR.	N/A	BORI	NG NO.	B1-B			ST	TATION 17	7+83	C
									NORTHING				NG 1,987,437	24 HR.	1.2		AR ELE					DTAL DEPT		N
DRILL	RIG/HAN	VIMER EF	F./DAT	E GFC	0075	CME-45C 87%11/	/23/2021			DRILLN	/IETHOD M	ud Rotary	HAMIN	MERTYPE Auto	matic	DRILL	RIG/HAM	MER EF	F./DATE	GFC	20075 CI	ME-45C 87%	11/23/2021	
DRIL	LER W	Valker, C	C. M.		S	START DATE	04/06/22		COMP. DA	TE 04/0	06/22	SURF	ACE WATER DEPTH N	/A		DRIL	LER W	alker, C	C. M.		ST	ART DATE	0 4/06/2	2 C
ELEV	DRIVE	DEPTH	BLC	ow cor	JNT	E	BLOWS PE	R FOOT		SAMP.			SOIL AND ROCK DES	SCRIPTION		ELEV	DRIVE ELEV	DEPTH	BLO	w co	UNT		BLOWS I	PER FOOT
(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	t 0 25	50		75 100	NO.	MOI G	ELEV. (ft			EPTH (ft)	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0 2	25 :	50 75
60	59.4	1										- 59.4	GROUND SURF	ACE	0.0	-20			10070 4				Matc	h Line
		1	2	5	2							- 57.4	ALLUVIAL GRAY SAND AND SILTY		2.0		1	-	10070.1					· · · ·
		ŧ						· · · ·				-	GRAVEL, MOIST TO S	ATURATED		05	-24.5	- - 83 0						
55	54.2	5.2	7	8	7	- · · · · · · · · · · · · · · · · · ·						-				-25		-	39	46	54/0.4	· · · · ·		
		ŧ	'	Ŭ	'	(15		· · · ·				<u>52.4</u>		<u></u>	7.0		+	-						
50	50.5	8.9	5	6	8							- 	GRAY SANDY AND SILT SHELL FRAGMENTS, W	Y CLAY WITH		-30	-29.5	88.9	34	35	55			
		ŧ		Ŭ	Ũ			· · · ·				- 47.4	FORMATION		12.0		+	-					· · · ·	
	45.5	+ 12.0						· · · ·				-			12.0		-34.5	- 02 0						
45	45.5	+ 13.9 T	7	9	12				· · · · ·			-				-35	-34.5	90.9	40	35	24			6 59
		ŧ					· · · · ·					42.4	GRAY SILTY SAND, S		<u> </u>		1							
40	40.5	18.9	21	39	51							-	GRAT SILTT SAND, S	ATURATED			1	-						
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	05.5	I															-	_						
35	35.5	<u>+ 23.9</u> T	98	100/0.4					100/0.4			-					-	-						
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30	30.5	28.9	10	20	40							F					Ŧ	-						
		Ŧ	40	38	46				•84			-					-	-						
		ŧ						· · · · ·				<u> 27.4 </u>		Y, WET	<u>32.0</u>		+	-						
25	25.5	+ 33.9 +	7	10	11							-					4	-						
		ŧ						· · · · ·	· · · · ·			-					1	-						
20	20.5	+ 38.9										- -					1	-						
20		ŧ	9	12	15		27										-	-						
		ŧ										-					1	-						
15	15.5	+ 43.9 +	11	13	20	$ \cdot \cdot \cdot \cdot $	33					-					+	-						
		ŧ						· · · · ·	· · · · ·			<u>12.4</u> _			47.0		+	-						
10	10.5	+ + 48.9		_]	X. I				F	GRAY CLAYEY SAND V FRAGMENTS, SAT				+	-						
		ŧ	19	50	23		••••		P ⁷³			F	,				+	-						
		ŧ						· · · · ·				F					+	-						
5	5.5	+ 53.9 +	24	43	29				72			F F-					+	-						
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0	0.5	+ + 58.9					::::	· · · · ·				F					+	-						
		‡	100/0.4	4					100/0.4	?		F					+	-						
-5		‡					::::	· · · · ·				F					+	-						
-5	-4.5	+ 63.9 +	60/0.0	5					60/0.0			F					4	-						
		‡					::::	· · · · ·				F					+	-						
-10	-9.5	+ + 68.9					::::	· · · · ·				F					+	-						
		+	100/0.2	2					100/0.2	?		 -					4	-						
-15		‡					::::	· · · · ·				F					+	-						
-15	-14.5	73.9	100/0.2						100/0.2			-					1	-						
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-20	-19.5	78.9		- 1					100/0.1]							



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	67073.					P BR-				ry colu	MBUS	S			GEOL	OGIST Miller, T	W.		-	6 707							COUNT					
SITE	DESCRI	STATION BRIDGE NO. 5 ON -L- (US 76) OVER G D. B2-A STATION 18+69 LEV. 58.5 ft TOTAL DEPTH 98.9 ft MMER EFF/DATE GF00075 QME-45C 87%11/23/2021								SWAMP								GROUND WTR (ft)	SITE	DESC	RIPTIO	BRI	DGE N	10.50	N -L- (US	76) OVER	GAPWA	Y SV				
BOR	NG NO.	B2-A			S	TATION	18+	-69		OFFSET	• 7 f	t LT			ALIG	IMENT -L-		0 HR. N/A	BOR	Ring NC). В2-А	4		SI	5 ON -L- (US 76) OVER GAPWAY S STATION 18+69 TOTAL DEPTH 98.9 ft 75 CME-45C 87% 11/23/2021 START DATE 04/06/22 0 2 0.4 0.4 0.4 0.4 0.4							
COLI	LAR ELE	V. 58	.5 ft		т	OTAL D	EPTH	98.9	ft	NORTH	NG	191,40)3		EAST	NG 1,987,403		24 HR. 0.2	COL	LAR E	L EV. 5	8.5 ft		т)TAL DE	PTH 98.9	ft	N				
DRILL	. RIG/HAM	MER EF	F./DATE	E GFC	0075 C	ME-45C	87%1 [′]	1/23/2021		•	0	ORILL M	iethod	Mu	d Rotary		HAMME	RTYPE Automatic	DRILL	L RIG/H/	AMMER E	FF./DA1	E GFO	00075 C	ME-45C 87	7%11/23/202	.1					
DRIL	LER W	alker, C	C. M.		S	TART D	ATE	04/06/2	22	COMP.	DATE	04/0	06/22		SURF	ACE WATER DE	PTH N/A	٨	DRIL	LER	Walker,	C. M.		ST	ART DA	TE 04/06/	/22	C				
ELEV	DRIVE ELEV	DEPTH	BLO	w cou	JNT			BLOWS	PER FOC	T T		SAMP.		L		SOIL AND RO			ELEV	DRIVE	, DEPT	H BLO	ow co			BLOWS	S PER FOC	л				
(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25		50	75 1	00	NO.	моі		ELEV. (ft		JCK DESC	DEPTH (ft	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	50	75				
60																			-20							Ma	tch Line					
	58.5	- 0.0		1	1								V	F	58.5		ID SURFA	ACE 0.0		T	+	20	722	22			144	$\overline{\cdot}$				
]	-	4	1	I	4 2					-					BROWN AND GF					Ŧ						: : ? *	-				
55	54.2	43							+ • • •						<u>55.5</u> 53.7	GRAVEL, MOI			-25	-24.5	+ 83.0	10	22	78/0.4								
			WOH	2	5			· · · · ·		· · · · ·	.						WET		1		‡					· · · · ·						
50	+	-				. .									<u>51.5</u>	TAN SILTY S			-30	-29.5	+ 88.0					· · · · ·						
50	49.2	9.3	3	5	6				· · · ·		-			1		(PEEDEE	FORMAT	ION)	-30		‡	37	43	46								
		-		Ĵ	0	. •1 \	1.							Y	• 46.5			12.0			t					· · · · ·						
45	45.5	- 13.0	4	6	8	1					-			Š	-				-35	-34.5	93.0	32	- 38	40				•				
	+	_		Ů	Ũ		14							Ì	• 42.5			16.0			ł											
		-									-				42.0	GRAY SILTY					Ŧ							-				
40	40.5	- 18.0	10	17	26				13					F	-	FRAGMEN	IS, SATU	RATED	-40	-39.5	+ 98.0	52	100/0.4	4			<u> </u>					
	1	-						· · · ·			:			F							Ŧ											
35	35.5	- 23.0									:			ļ							‡											
- 55		-	47	59	41/0.2					100/0	0.7			-	-						‡											
		-						· · · · ·	· · ·												‡											
30	30.5	- 28.0	56	49	51/0.4						-			L	_						±											
		-								:					· 27.5			31.0			ŧ											
		-									-			S		GRAY SAN		, wet <u>51.</u>			Ŧ											
25	25.5	- <u>33.0</u> -	8	10	12		•22								_						Ŧ											
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20	20.5	- 38.0			- 04			Ĭ. I. I.		: : : :				Ì							ŧ											
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15	15.5	- 43.0	9	16	40				N EP	-											‡		1									
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	10.5	- 48 0						· · · · ·	· · ·		:					GRAY SILTY	SAND, SA		1		<u>†</u>											
10		-	52	74	26/0.1					100/0	0.6				_						+		1									
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0	0.5	- 58.0	15	17	21			6 38	1						-						‡		1									
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	-4.5	- - 63.0						· · · · ·		·/···	:					GRAY SILTY SILTY		H WOOD			‡		1									
-5 -5		-	36	100/0.5						100/0	0.5				-		,				‡		1									
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-10	-9.5	- 68.0	95	100/0.3					· · ·		·]]										Ŧ											
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BITE DESCRIPTION BITOCOLON UTITAD Concurrence Concurence Concurrence Concurrence </th <th></th> <th>67070</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>172</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>050</th> <th></th> <th>,</th> <th></th> <th>MDO</th> <th>67070</th> <th>1 4</th> <th></th> <th></th> <th></th> <th><u>, </u></th> <th></th> <th>_</th>		67070						172							050		,		MDO	67070	1 4				<u>, </u>		_							
DECREMENDATION EXAMPLE IF ADD OPTRET 6 AR AUXAMENT -L. OPTRET 401 STATOM 19:00 STATUM 19:00 STATUM 19:00 STATUM 19:00 STATUM 19:00		E DESCRIPTION BRIDGE NO. 5 ON -L- (US 76) OVER GA										505			GEO	LUGIST Miller, I.W											WAY SV							
COLLARE LIV. 63.17 COTAL DEPTH: 91.71 MORTING 199.766 24.78 11 TOTAL DEPTH: 9.01 PULLOWMENT CODING CONSTANCE/CON FIAIL CONV. FIA					JGE N			,		APVVAY		0 # DT											JGE N		,									
Display Display <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>140</td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="8">Ine</td></t<>													140					•									Ine							
Test Left Walker C. M. TEAT DATE 0405022 COMPACING MATE 040502 SUBFACE WATER DEPTH NA. TEST DEPTH NA. 100 100 100 0.000 591/000 100 0.000 591/000 100											NORTHING																							
No. Mode															· ·												_							
10 10 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u></u></td><td>SUR</td><td>ACE WATER DEPTH</td><td>- N/A</td><td>A</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td></th<>														<u></u>	SUR	ACE WATER DEPTH	- N/A	A				-												
0 0	ELEV (ft)		DEPTH	BLC			0						1.7				DESC	CRIPTION	ELEV (ft)	ELEV														
0 00 00 0 0 00 00 00 0 0 00 00 0<	(14)	(ft)		0.51	0.511	0.5π	0	25	50	0	15 100	NO.	<u>/мо</u>	I G	ELEV. (ft)		DEPTH (ft)	(19	(ft)	(14)	0.51	0.51	0.5π		<u> </u>	10							
0 00 00 0 0 00 00 00 0 0 00 00 0<																																		
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