CONTENTS

48,

38590.1.1

 SHEET
 DESCRIPTION

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 TITLE SHEET

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 LEGEND

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 BORE LOGS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE SUBSURFACE INVESTIGATION

ROJ. REFERENCE NO. <u>38590.1.1</u> OUNTY <u>Surry</u>	F.A. PROJ. BRZ 1190(2)				
ROJECT DESCRIPTION Bridge 338 over the You SR-1190/SR-1402	Yadkin River/Railroad				
ITE DESCRIPTION Retaining Wall at -L-					

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	38590.1.1	1-	

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNIG, AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FELD BORING LOCS, ROCK CORES, AND SOIL TEST DATA AVALABLE MAY BE REVIEWED OR INSPECTED IN RALEGIG BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL EMBRICERING UNIT AT (1919) 250-408B. NETTHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOCK, ROCK CORES, OR SOIL TEST DATA ARE PART OF THE CONTRACT.

GENERAL SOL AND BOCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARLY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATIORY SAMPLE DATA AND THE N SITU UN-PLACE TEST DATA CAN BE RELED ON ORLY 10 THE DEGREE OF RELABLITY ARREPRINT IN THE STANDARD TEST METHOD. THE OSSERVED WATER LEVELS OR SOLL MOSITUME CONDITIONS INDICATED IN THE SUBSURFACE INVESTICATIONS ARE AS RECORDED AT THE TIME OF THE NVESTICATION. THESE WATER LEVELS OR SOIL MOISTUME CONDITIONS AND VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION, AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DEFERENT, FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCLMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT, THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISTY HUMBELF AS TO CONDITIONS TO DE ENCOUNTERED ON THIS PROJECT, THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS TO DE ENCOUNTERED ON THIS PROJECT, THE

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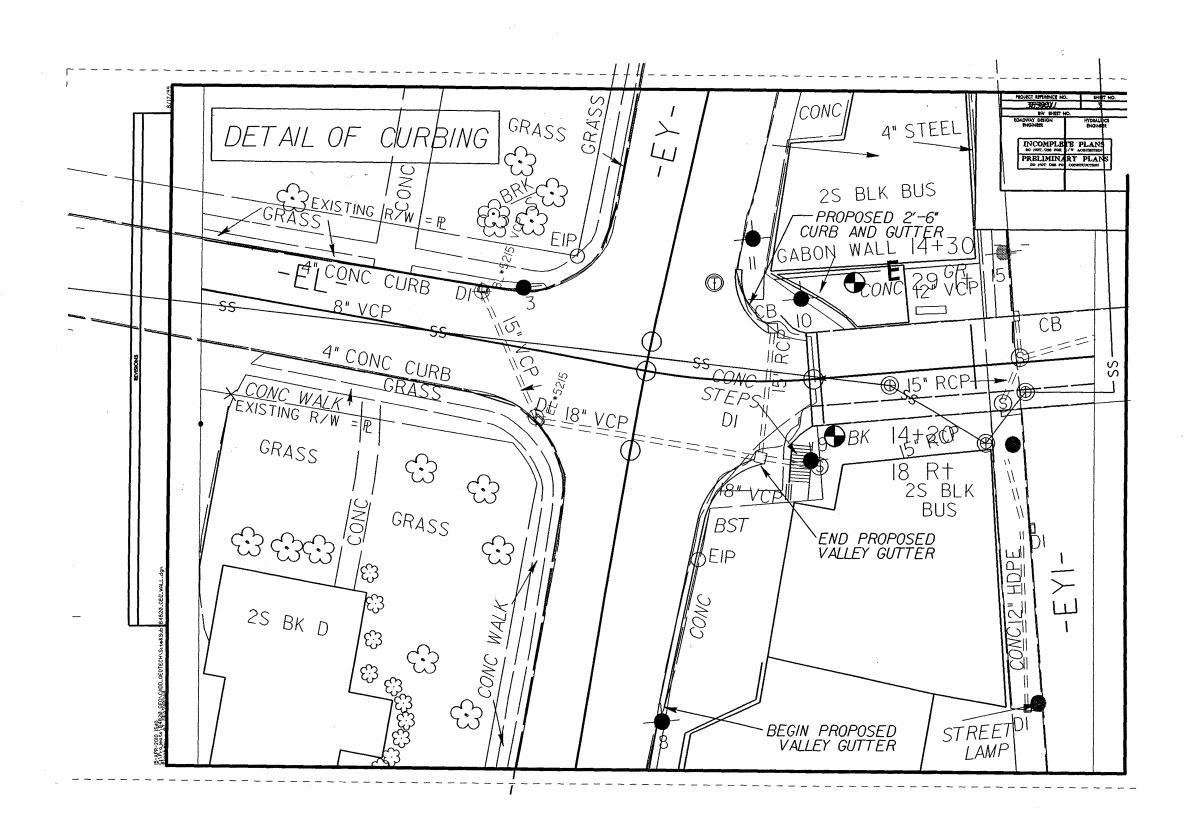
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

	SOIL AND ROCK LEGEND, TERM	IS, SYMBOLS, AND ABBREVIATIONS				
SOIL DESCRIPTION	GRADATION	ROCK DESCRIPTION	TERMS AND DEFINITIONS			
SOIL IS CONSIDERED TO BE THE UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS	WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE. UNIFORM - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. (ALSO	HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT IF TESTED, WOULD YIELD SPT REFUSAL. AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL.	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.			
THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER, AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO STANDARD PENETRATION TEST (AASHTO T206, ASTM D-1586). SOIL	POORLY GRADED) GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES.	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	AQUIFER - A WATER BEARING FORMATION OR STRATA.			
CLASSIFICATION IS BASED ON THE AASHTO SYSTEM, BASIC DESCRIPTIONS GENERALLY SHALL INCLUDE:	ANGULARITY OF GRAINS	OF WEATHERED ROCK.	ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.			
CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. EXAMPLE:	THE MIGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: ANGULAR.	ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS: WEATHERED NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100	ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, AS SHALE, SLATE, ETC.			
VERY STIFF, GRAN, SETT CLAN, MOST WITH INTERDEDUED FINE SAND LATERS, HIGHLY PLASTIC, A-7-6	SUBANCULAR, SUBROUNDED, OR ROUNDED.	WEATHERED VIELD NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 ROCK (WR) BLOWS PER FOOT IF TESTED.	ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL			
SOIL LEGEND AND AASHTO CLASSIFICATION	MINERALOGICAL COMPOSITION	CRYSTALLINE FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT	AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.			
GENERAL GRANULAR MATERIALS SILT-CLAY MATERIALS ORGANIC MATERIALS	MINERAL NAMES SUCH AS DUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHENEVER THEY ARE CONSIDERED OF SIGNIFICANCE.	CRISTALLINE ROCK (CR) WOULD YIELD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE, GNEISS, GABBRO, SCHIST, ETC.	CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.			
CLASS. (≤ 35% PASSING *200) (> 35% PASSING *200)	COMPRESSIBILITY	NON-CRYSTALLINE FINE TO COARSE GRAIN METAMORPHIC AND NON-COASTAL PLAIN SEDIMENTARY ROCK THAT WOULD YELLD SPT REFUSAL IF TESTED. ROCK TYPE	COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM			
GROUP A-1 A-3 A-2 A-4 A-5 A-6 A-7 A-1, A-2 A-4. A-5 CLASS. A-1-a A-1-b A-2-4 A-2-5 A-2-6 A-2-7 A-3 A-6. A-7		ROCK (NCR) INCLUDES PHYLLITE, SANDSTONE, ETC.				
SYMBOL DOCOGOOGO	MODERATELY COMPRESSIBLE LIQUID LIMIT EQUAL TO 31-50	COASTAL PLAIN COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SPT REFUSAL, ROCK TYPE INCLUDES LIMESTONE, SANOSTONE, CEMENTED	CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL			
7 PASSING		CF7 STELL BEDS, ETC.				
# 10 Se MX GRANULAR SILLY MUCK.	OPCOMIC MATERIAL GRANULAR SILT - CLAY		ROCKS OR CUTS MASSIVE ROCK.			
# 40 38 MX 50 MX 51 MN PEAT 200 15 MX 25 MX 35 MX 35 MX 35 MX 35 MX 36 MN 36 MN 36 MN 36 MN 36 MN	SULS SULS					
LIDER LEGT	LITTLE ORGANIC MATTER 3 - 5% 5 - 12% LITTLE 10 - 20%					
IPLASTIC INDEX 6 MX NP in any line any line and line any lin		(Y SLI.) CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF	THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.			
GROUP INDEX 0 0 8 4 MX 8 MX 12 MX 16 MX No MX MODERATE DRIGATION		TO THE PARTY OF TH				
MOUNTS OF SOILS		(SLIJ 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR				
OF MAJOR GRAVEL AND SAND SAND SAND SAND SAND SAND SAND	i	THE PROPERTY OF THE PROPERTY O				
GEN. RATING	——————————————————————————————————————	(MODL) GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLDRED, SOME SHOW CLAY, ROCK HAS	PARENT MATERIAL.			
		DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED	FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY			
PI OF A-7-5 SUBGROUP IS \leq LL - 30 : PI OF A-7-6 SUBGROUP IS $>$ LL - 30	OMM SPRING OR SEEP	MODERATELY ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL	THE STREAM.			
CONSISTENCY OR DENSENESS	MISCELLANEOUS SYMBOLS	SEVERE AND DISCOLORED AND A MAJORITY SHOW KADLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH				
PRIMARY SOIL TYPE COMPACTNESS OR PENETRATION RESISTENCE COMPRESSIVE STRENGTH	ROADWAY EMBANKMENT (RE) ST CPT OFT TEST BORING SAMPLE	IF TESTED, WOULD YIELD SPT REFUSAL	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.			
CONSISTENCY (N-VALUE) (TONS/FT2)		SEVERE ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED, ROCK FABRIC CLEAR AND EVIDENT BUT REDUCED	LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO			
GENERALLY VERY LOOSE 4 TO 18	L SOIL SYMBOL (L) AUGER BORING	(SEV.) IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELUSPARS ARE KAULINIZED ID SUME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN.	ITS LATERAL EXTENT.			
MATERIAL MEDIUM DENSE 10 TO 30 N/A	ARTIFICIAL FILL (AF) OTHER COOK PORTUGE SAMPLE	IF TESTED, YIELDS SPT N VALUES > 100 BPF				
(NON-COHESIVE) DENSE 30 TO 50	ST - SHELBY TUBE		SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.			
	MONITORING WELL	REMAINING SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE SUCH THAT ONLY MINOR	PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN			
GENERALLY SOFT 2 TO 4 0.25 TO 0.50	INFERRED ROCK LINE PIEZOMETER					
MATERIAL STIFF 8 TO 15 1 TO 2	INSTALLATION RT - RECOMPACTED TRIAXIAL SOLUTION SAMPLE	SCATTERED CONCENTRATIONS, QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS, SAPROLITE IS	BOCK QUALITY DESIGNATION (ROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF			
(COHESIVE) VERY STIFF 15 TO 30 2 TO 4 HARD >30 >4	SLOPE INDICATOR 25/925 DIP & DIP DIRECTION OF SINSTALLATION: CBR - CALIFORNIA BEARING					
TEXTURE OR GRAIN SIZE	ROCK STRUCTURES RATIO SAMPLE		3			
			PARENT ROCK.			
OPENING (MM) 4.76 2.00 0.42 0.25 0.075 0.053		THE PROPERTY OF THE PROPERTY O	SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFURM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL			
BOULDER COBBLE GRAVEL COARSE FINE SILT CLAY		TO DETACH HAND SPECIMEN.	TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.			
SANU SANU (SI)	BT - BORING TERMINATED MED MEDIUM V - VERY	MODERATELY CAN BE SCRATCHED BY KNIFE OR PICK, GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE				
GRAIN MM 305 75 2.0 0.25 0.05 0.005		BY MODERATE BLOWS.	CTANDARD DENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF			
SIZE IN. 12 3	CSE COARSE NP - NON PLASTIC 7 - UNIT WEIGHT		A 148 I.B. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH			
SOIL MOISTURE - CORRELATION OF TERMS	DMT - DILATOMETER TEST ORG ORGANIC 7d - DRY UNIT WEIGHT DPT - DYNAMIC PENETRATION TEST PMT - PRESSUREMETER TEST	POINT OF A GEOLOGIST'S PICK.	THAN 0.1 FOOT PER 60 BLOWS.			
SOIL MOISTURE SCALE FIELD MOISTURE GUIDE FOR FIELD MOISTURE DESCRIPTION GATTERBERG LIMITS) DESCRIPTION	e - VOID RATIO SAP SAPROLITIC	SOFT CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN	STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH			
	FOSS FOSSILIFEROUS SL SILT, SILTY	PIECES CAN BE BROKEN BY FINGER PRESSURE.	STRATA ROCK DUALITY DESIGNATION (SROD) - A MEASURE OF ROCK DUALITY DESCRIBED BY			
(SAT.) FROM BELOW THE GROUND WATER TABLE	FRAC FRACTURED, FRACTURES SLI SLIGHTLY FRACS - FRACMENTS TOR - TRICONE REFUSAL	VERY CAN BE CARVED WITH KNIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK. PIECES 1 INCH	TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EDUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE			
PLASTIC COURSE IN TO		FINGERNAIL.	1			
RANGE - WET - (W) SEMI-SULING FOR THIS IN OPTIMISM MOISTURE	EQUIPMENT USED ON SUBJECT PROJECT	FRACTURE SPACING BEDDING				
(PI) PLASTIC LIMIT	DRILL UNITS: ADVANCING TOOLS: HAMMER TYPE:	TERM SEHOIND VERY THICKLY PERDED A FEET				
OM OPTIMUM MOISTURE - MOIST - (M) SOLID; AT OR NEAR OPTIMUM MOISTURE	AUTONATIC MANUAL	VERY WIDE MORE THAN 10 FEET THICKLY BEDDED 1.5 - 4 FEET WIDE 3 TO 10 FEET THICKLY BEDDED 1.5 - 15 FEET	Assumed Elevation ELEVATION: 923.5 FT.			
SL SHRINKAGE LIMIT	- L MOBILE B-	MODERATELY CLOSE 1 TO 3 FEET VERY THINLY BEDOED 0.03 - 0.16 FEET	NOTEC.			
REQUIRES ADDITIONAL WATER TO - DRY - (D) ATTAIN OPTIMIN MODETURE		VERY CLOSE LESS THAN & IS SEET HICKLY LAMINATED 0.000 - 0.00 FEET	MOTES:			
HITHIN OF THOS POLICE		INDURATION]			
PLASTICITY	1	FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF THE MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.				
	TUNGCARBIDE INSERTS	FRIARIE RUBBING WITH FINGER FREES NUMEROUS GRAINS:				
LOW PLASTICITY 6-15 SLIGHT	CASING W/ ADVANCER HAND TOOLS:	GENTLE BLUW BY HAMMER DISTRIBUTATES SAMELE.				
MED. PLASTICITY 16-25 MEDIUM HIGH PLASTICITY 26 OR MORE HIGH	PORTABLE HOIST TRICONESTEEL TEETH POST HOLE DIGGER	MODERATELY INDURATED GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.				
COLOR						
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY).	Authority Company Co					
MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.	VANE SHEAR TEST					
1		SAPPLE BREAKS ACRUSS GRAINS.	1			





SHEET

PRC														1			i
PROJECT NO. 38590.1.1						ID.	B-4820			COUNTY Surry				GEOLOGIS	F Elliott, D. C.	Topolinio ia	TD (61)
SITE	E DE	ESCRI	PTION	N/A										T		GROUND W	
BORING NO. 1			ST	TATION 1	4+30		OFFSET 2				ALIGNMEN'		0 HR.	N/A			
COLLAR ELEV. 904.1 ft					TH 44.1 ft		NORTHING	913,1	46		EASTING		24 HR.	N/A			
DRILL MACHINE CME-550X				DF	RILL METI	IOD NW Casi						_	HAMMER TYPE	Automatic			
DRI	LLE	R Co	offey, J	r., C.		ST	TART DAT	E 03/30/10		COMP. DAT	E 03/	30/10		SURFACE V	WATER DEPTH N	I/A	
ELE\	/ D	RIVE	DEPTH	BLO	w cou	JNT		BLOWS PER	FOOT		SAMP.	lacksquare	O L	:	SOIL AND ROCK DES	SCRIPTION	
(ft)		(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25 50	7	5 100	NO.	MOI		ELEV. (ft)			DEPTH (ft)
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905		l													CDOLIND SUID	-	0.0
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		1	- -											MOT	TLED RED, YELLOW BOTTOM	AND WHITE AT	Ī
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NCDOT GEOTECHNICAL ENGINEERING UNIT BORELOG REPORT

GEOLOGIST Elliott, D. C. PROJECT NO. 38590.1.1 ID. B-4820 COUNTY Surry **GROUND WTR (ft)** SITE DESCRIPTION N/A ALIGNMENT L 0 HR. BORING NO. 2 **STATION** 14+20 OFFSET 18 ft RT 24 HR. **EASTING** 1,454,782 N/A **NORTHING** 913,135 COLLAR ELEV. 913.5 ft TOTAL DEPTH 45.0 ft HAMMER TYPE Automatic DRILL METHOD NW Casing w/ SPT DRILL MACHINE CME-550X COMP. DATE 03/29/10 SURFACE WATER DEPTH N/A DRILLER Coffey, Jr., C. **START DATE** 03/29/10 ELEV DRIVE DEPTH SAMP. BLOW COUNT BLOWS PER FOOT SOIL AND ROCK DESCRIPTION (ft) 0.5ft 0.5ft 0.5ft NO. MOI G 75 DEPTH (ft) 915 **GROUND SURFACE** RESIDUAL: RED CLAY 910 4 905 903.5 + 10.0 2 4 900 898.5 2 SAPROLITE: TAN FINE SANDY SILT 895 SAPROLITE: BROWN SILTY SAND 893.5 + 20.0 6 18 22 890 888.5 28 59 885 883.5 + 30.0 42 41 59/.1 WEATHERED ROCK WITH THIN LAYERS - - 100/.6 OF DENSE TO VERY DENSE SILTY SAND 880 878.5 + 35.0 SAPROLITE: BROWN SILTY SAND 18 42 38.0 875 WEATHERED ROCK 873.5 + 40.0 62 38/:3 100/.8 CRYSTALLINE ROCK 870 Boring Terminated at Elevation 868.5 ft in <u>5</u> 860 855 850 845 840

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