STATE	STATE PROJECT	REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.8.R.63	(SF-610036)	1	8

STATE OF NORTH CAROLINA

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

STRUCTURE SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO.	17BP.8.R.63 (SF-610036)	F.A. PROJ <i>N/A</i>	
COUNTY MONTGOM	ERY		
	BRIDGE NO. 36 ON SR	1544	
	ROAD) OVER DISONS CR		

CONTENTS

SHEET **DESCRIPTION** TITLE SHEET 2 - 2A LEGEND SITE PLAN 3 BORING LOGS 4 - 7

	PERSONNEL
c	CROCKETT

S. CROCKETT							
D DOVCE							
B. BOYCE							

INVESTIGATED BY S. CROCKETT

P. ZHANG CHECKED BY

SUBMITTED BY P. ZHANG

MARCH 2014 DATE ____

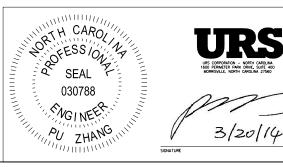
CAUTION NOTICE

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 REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C, DEPARTMENT OF TRANSPORTATION. GEOTECHNICAL ENONEERING UNIT AT 1991 970-6850. RETHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA ARE 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 (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MOLOCATED IN THE 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 DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS 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 OPHION OF THE 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 SATISFY HIMSELF AS TO CONDITIONS OF 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 ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTE THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS BEING ACCURATE NOR IT IS CONSIDERED TO BE PART OF THE PLANS, SPECIFICATIONS, OR CONTRACT FOR THE PROJECT.
- NOTE BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.



DRAWN BY: S. CROCKETT

PROJECT REFERENCE NO.	SHEET NO.
17BP.8.R.63 (SF-610036)	2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

				SOIL D	ESCRI	PTIC	N					GRADATION											
SOIL IS CON THAT CAN E	SIDERED TO	BE TI	HE UNCONSO	LIDATED, 9	EMI-CONS	OLIDAT	ED, OR	WEATH	HERED EARTH	H MATERIAL	S	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 PROPERLY CAPACED)											
100 BLOWS	PER FOOT A	CCORDI	NG TO STA	NDARD PEN	TRATION	TEST (AASHT() T206	S, ASTM D-15	86). SOIL		POORLY GRADED) GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES.											
CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY SHALL INCLUDE: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. EXAMPLE:									ANGULARITY OF GRAINS THE ANGULARITY OF ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS ANGULAR,														
VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDOED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6										JLAR, SUBRO			IL ONHING I	2 0531	IONHIED BI	THE TE	MHS HINDOLHM,						
SOIL LEGEND AND AASHTO CLASSIFICATION												MINE	RALOGIC	AL (COMPOS	ITION							
GENERAL CLASS.			R MATERIA			CLAY N			ORGAN	VIC MATER	IALS					SPAR, MICA, T GNIFICANCE.	ALC, KA	AOLIN, ETC.	ARE USE	D IN DESCRIP	rions		
GROUP	A-1	A-3		A-2	A-4		A-6	A-7	A-1, A-2	A-4, A-5						COMPRI	ESSI	BILITY					
CLASS.	A-1-a A-1-b		A-2-4 A-2-	5 A-2-6 A-	2-7	ar . u .		A-7-5 A-7-6	A-3	A-6, A-7				COMPRESS				LIQUID I		SS THAN 31			
SYMBOL					N.	1.7.1							MODERATELY COMPRESSIBLE LIQUID LIMIT EQUAL TO 31-50 HIGHLY COMPRESSIBLE LIQUID LIMIT GREATER THAN 50										
% PASSING # 10	50.10								GRANULAR	SILT-	MUCK,				PEF GRANULAI	RCENTAG R SILT -		F MATE	RIAL				
* 40	50 MX 30 MX 50 MX	51 MN							SOILS	CLAY SOILS	PEAT		ANIC MATER		SOILS	SOIL	_S			THER MATERIAL			
	15 MX 25 MX	IM MX											F ORGANIC I ORGANIC MA		2 - 3% 3 - 5%	5 - 1	12%		TRACE LITTLE				
LIQUID LIMIT PLASTIC INDEX	6 MX	NP	40 MX 41 M 10 MX 10 M	N 40 MX 41 IX 11 MN 11					SOILS LITTLE			MODERATE HIGHLY OF	ELY ORGANI ORGANIC	С	5 - 10% >10%	12 - 2 20:			SOME HIGHL	20 - 3	5%	nve	
GROUP INDEX	Ø	Ø	ø	4 MX	8 MX	12 MX	16 MX	No MX	MODER	ATE	HIGHLY ORGANIC							WATER	THOTE	IGHLY 35% AND ABOVE			
USUAL TYPES		FINE	SILTY	OR CLAYEY	SI	LTY	CLA	YEY	AMOUN ORGAN		SOILS	∇	_	WATER LE	EVEL IN E	BORE HOLE	IMMED	JATELY AF	TER DRI	LLING			
OF MAJOR MATERIALS	GRAVEL, AND SAND	SAND		AND SAN		ILS	SOII		MATTE	R		_	_	STATIC W	ATER LE	VEL AFTER	24	HOURS					
GEN. RATING AS A	EVO	FLLEN	NT TO GOO	n		FAIR T	n pnn	IR	FAIR TO	POOR	UNSUITABLE	√PW	<u>_</u>	PERCHED	WATER, S	ATURATED Z	ZONE, C	OR WATER I	BEARING	STRATA			
SUBGRADE									POOR		ONSOTTHOLE		۱ ۸ ــ	SPRING O	IR SEEP								
PI	OF A-7-5	SUBG		≤ LL - ISTENC					OUP IS >	LL - 30		0 00	U			BCELLAN	IF OLL	S SYMB	ROLS				
			COMPACTNE		RANO	GE OF S	STANDA	RD		OF UNCONF		Ш	BUVDAV.	Y EMBANKI			SPT DPT D VST P				T	EST BORI	ING
PRIMARY	SOIL TYPE	`	CONSIST		PENETRA	N-VAL		NCE		SSIVE STR ONS/FT ²				DIL DESCR		´ •	VST P	OMT TEST	BORING	7	W	/ CORE	
GENER			VERY LOC	ISE		<4 4 TO	10						SOIL SY	MBOL		\oplus)	AUGER BOR	RING	\bigcirc	– SF	PT N-VAL	.UE
GRANU MATER			MEDIUM D	ENSE		10 TO	30			N/A				IAL FILL)-	CORE BORI	NG	REF-	– SI	PT REFUS	SAL
(NON-	COHESIVE)		DENSE VERY DEN	ISE		30 TO >50								DADWAY EN		MM MM ✓	`	MONITORIN	e ueu				
051.50			VERY SOF	T		<2				<0.25				D SOIL BO		C							
GENER SILT-0	CLAY		SOFT MEDIUM S	STIFF 4 TO 8 0.5 TO 1.0			INFERRED ROCK LINE △ PIEZOMETER INSTALLATION																
MATER (COHE			STIFF VERY STI	FF		8 TO 15 TO				1 TO 2 2 TO 4		イ アティイ	ALLUVIA	AL SOIL BO	OUNDARY			SLOPE IND INSTALLAT					
	HARD >30 >4				25/025		DIP DIRECT		<u> </u>	_	CONE PENE		ED TEST										
TEXTURE OR GRAIN SIZE						nock of		-	_	•	CONE I ENE	. ITTOPIE II	LIC ILSI										
U.S. STD. SI OPENING (M				4 10 76 2.0		40 60 200 270 0.42 0.25 0.075 0.053			SOUNDING ROD														
		200. 5	1		COAF			FINE										TIONS					-
BOULDE (BLDR.		OBBLE		AVEL iR.)	SAN (CSE	ND . SD.)		SANE (F SE	,	SILT (SL.)	CLAY (CL.)		UGER REFL ORING TER			MED ME MICA MI		ous		VST - VA WEA WE	ATHER	RED	s I
	1M 3Ø5		75	2.0			0.25		0.05	0.005		CL CL	LAY CONE PENE	TRATION :	TEST	MOD MOI NP - NON				γ - UNIT γ_d - DRY			
SIZE I	N. 12	0.71	3				011.					CSE 0	COARSE			ORG ORG	GANIC	EMETER TE	ст			BREVIATIO	ONE
SOL	MOISTURE		MOISTL	JKE - U FIELD M								DPT - D	DILATOMET DYNAMIC P		ON TEST	SAP SAF	PROLIT	TIC	.51	S - BULK			CNIC
	RBERG LIM			DESCRI			GUIDE	FOR	FIELD MOIS	STURE DES	SCRIPTION	e - V0	DID RATIO NE			SD SANI SL SILT				SS - SPL ST - SHE			
				- SATUR					IOUID; VERY				FOSSILIFE FRACTURE		IRES	SLI SLI TCR - TRI				RS - ROC RT - REC		TED TRI	ΔΥΙΔΙ
וו_	_ LIQUII	LIMI	т _	(SAT	.)		FRUM	BELL)W THE GRO	JUNU WAIE	K TABLE	FRAGS.	- FRAGMEN		,,,,,,	w - MOIST				CBR - CA	LIFOR		
PLASTIC RANGE <				- WET	- (W)				REQUIRES		ס	HI HI	IGHLY	FOLI	IPMEN.	v - very	ΩNI	SUB IEC	T PRI		TIO		
(PI) PL	PLAST	IC LIM	IT _				ALIA.	IN UP	TIMUM MOIS	DIUME				LGO				JODOLO		HAMMER TYPE			
ОМ	OPTIMU	м моі	STURE	- MOIS	T - (M)		SOL	ID; AT	OR NEAR	OPTIMUM N	MOISTURE	DRILL UNITS: ADVANCING TOOLS: HAMMER TYPE: X AUTOMATIC					MANU	UAL					
SL												мс	OBILE B	_		CLAY BITS							
				- DRY	- (D)				ADDITIONAL		0	│	<-51			6. CONTINOOR		GHT AUGER		CORE SIZE:			
HITHIN OF THOUS MUISTONE							8"HOLLOW A				в												
				PLASTICI	ASTICI				DRY STR	RENGTH		📙 см	4E-45C			HARD FACED				N			
NONPLASTI				Ø	-5	1/			VERY	LOW		СМІ	1E-550			TUNGCARBIC	_			H			
LOW PLAST MED. PLAST					-15 -25				SLIG! MEDI				ODTABLE ::	nici		CASING	_	ADVANCER	<u>,,,</u>	HAND TOOLS:			
HIGH PLAS				26	OR MOR				HIGH	Н			ORTABLE HO	ا و تد		TRICONE		STEEL TEE		POST H		JIGGER	
					COLOF							× CN	ME-55			TRICONE		'TUNGCARE	٥.	SOUNDI		D	
l									ELLOW-BRO		GRAY).					CORE BIT				VANE S			
MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.														-									

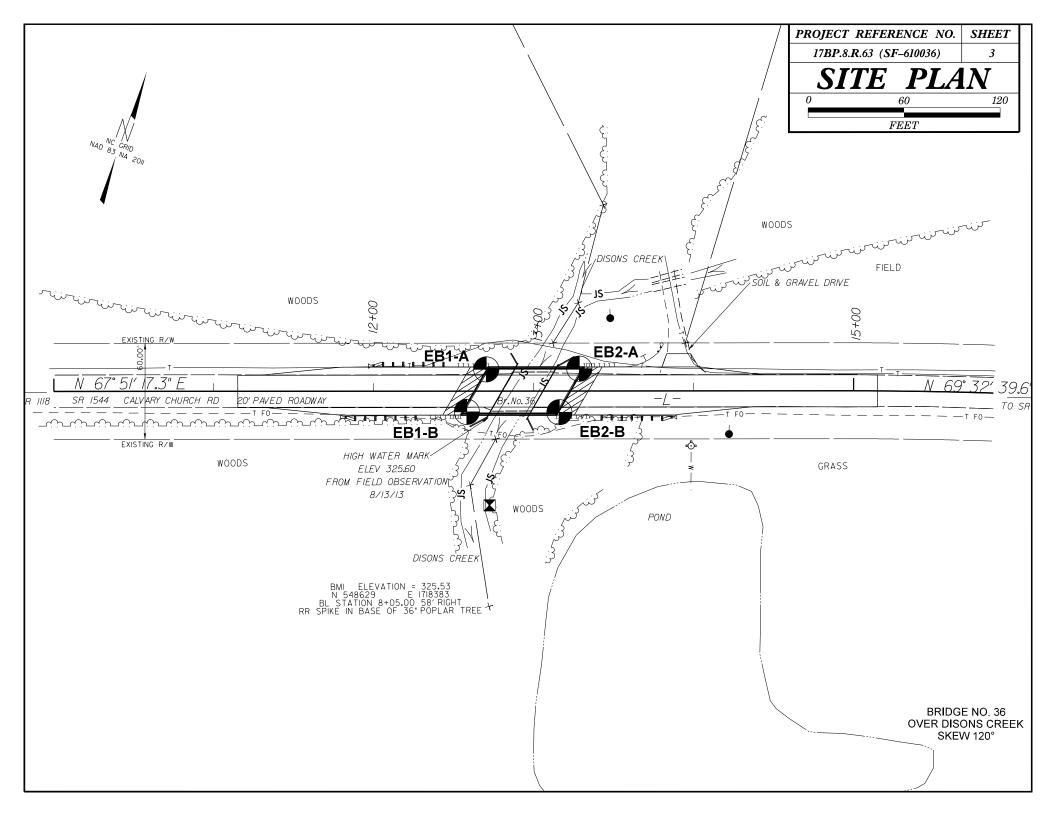
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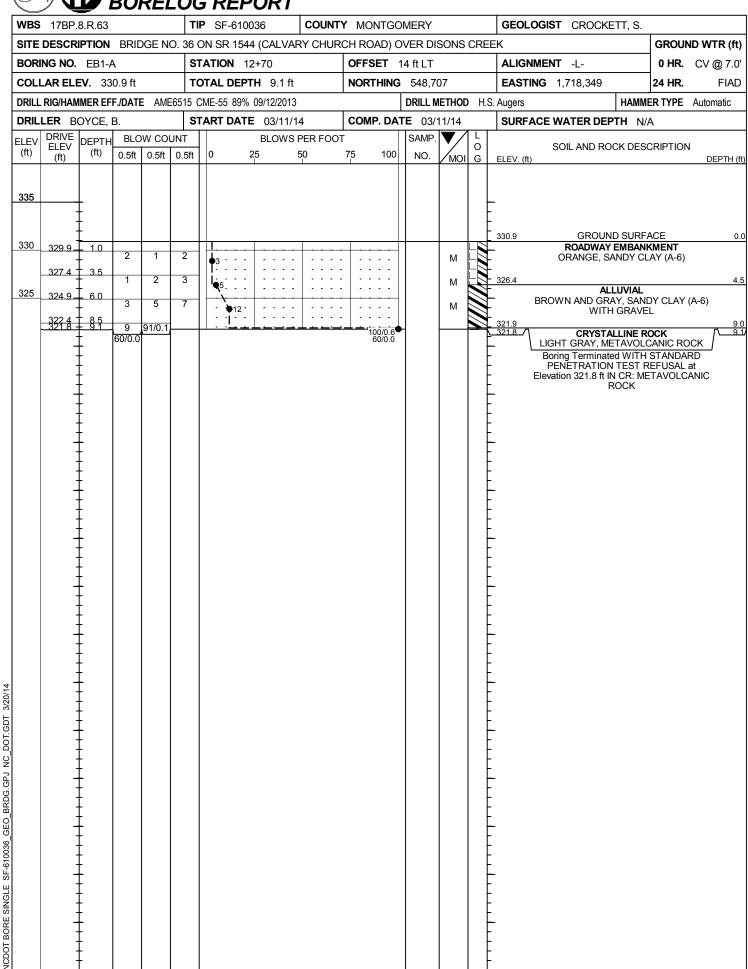
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

HADD BOOK TO VO	L COACTAL DI ATT		ESCRIPTION	ELICAL AN INCEPEE	TERMS AND DEFINITIONS
ROCK LINE INDICA	TES THE LEVEL AT	T WHICH NON-CO	IF TESTED, WOULD YIELD SPT RE DASTAL PLAIN MATERIAL WOULD YI	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.	
IN NON-COASTAL F	LAIN MATERIAL.		SAMPLER EQUAL TO OR LESS THAN N BETWEEN SOIL AND ROCK IS OFT		AGUIFER - A WATER BEARING FORMATION OR STRATA.
OF WEATHERED RO	CK.				ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND. ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS.
WEATHERED NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD			SPT N VALUES > 100	OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, AS SHALE, SLATE, ETC.	
ROCK (WR)	Bl	LOWS PER FOOT	IF TESTED.		ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE
CRYSTALLINE ROCK (CR)		INE TO COARSE OULD YIELD SP'	GRAIN IGNEOUS AND METAMORPHIC REFUSAL IF TESTED. ROCK TYPE	ROCK THAT INCLUDES GRANITE,	GROUND SURFACE.
	JC JC GN	NEISS, GABBRO, S			CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.
NON-CRYSTALLINE ROCK (NCR)	SE	EDIMENTARY ROO	K THAT WOULD YEILD SPT REFUS		COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.
COASTAL PLAIN	co	DASTAL PLAIN S	TE, SLATE, SANDSTONE, ETC. EDIMENTS CEMENTED INTO ROCK, E	BUT MAY NOT YIELD	CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL
SEDIMENTARY ROCK (CP)	SP SH	PT REFUSAL. RO HELL BEDS.ETC.	CK TYPE INCLUDES LIMESTONE, SA	NDSTONE, CEMENTED	LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
		WEA	THERING		DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.
	FRESH,CRYSTALS E R IF CRYSTALLINE		NTS MAY SHOW SLIGHT STAINING.	ROCK RINGS UNDER	DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.
(V SLI.) CRYST		SPECIMEN FACE	D,SOME JOINTS MAY SHOW THIN (SHINE BRIGHTLY. ROCK RINGS U		<u>DIP DIRECTION (DIP AZIMUTH)</u> - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.
SLIGHT ROCK (GENERALLY FRESH,	JOINTS STAINE	D AND DISCOLORATION EXTENDS IN . IN GRANITOID ROCKS SOME OCC		FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.
CRYST			CRYSTALLINE ROCKS RING UNDER		FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.
(MOD.) GRANIT	OID ROCKS, MOST	FELDSPARS ARE	DISCOLORATION AND WEATHERING E DULL AND DISCOLORED, SOME SHO	OW CLAY. ROCK HAS	FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.
WITH F	RESH ROCK.		SHOWS SIGNIFICANT LOSS OF STU OR STAINED. IN GRANITOID ROCKS		FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.
SEVERE AND DI (MOD. SEV.) AND CA	SCOLORED AND A AN BE EXCAVATED	MAJORITY SHOW WITH A GEOLOG	KAOLINIZATION. ROCK SHOWS SE	VERE LOSS OF STRENGTH	FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.
	<i>TED, WOULD YIELD</i> DCK EXCEPT QUART		OR STAINED. ROCK FABRIC CLEAR	AND EVIDENT BUT REDUCED	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.
(SEV.) IN STR	T. SOME FRAGMENT	TS OF STRONG I	IITOID ROCKS ALL FELDSPARS ARE ROCK USUALLY REMAIN.	KAOLINIZED TO SOME	LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT. LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.
	S <i>TED, YIELDS SPT</i> OCK EXCEPT DUART		<i>O DET</i> OR STAINED, ROCK FABRIC ELEME	MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN	
(V SEV.) THE MA	ASS IS EFFECTIVE NING. SAPROLITE IS	LY REDUCED TO S AN EXAMPLE	SOIL STATUS, WITH ONLY FRAGME OF ROCK WEATHERED TO A DEGREI C REMAIN. <i>IF TESTED, YIELDS S</i>	ENTS OF STRONG ROCK E SUCH THAT ONLY MINOR	SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE. PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.
COMPLETE ROCK F	REDUCED TO SOIL.	ROCK FABRIC N	OT DISCERNIBLE, OR DISCERNIBLE	ONLY IN SMALL AND	RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.
	RED CONCENTRATI	ONS. QUARTZ M	AY BE PRESENT AS DIKES OR STR	INGERS. SAPROLITE IS	ROCK QUALITY DESIGNATION (ROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND
		ROCK	HARDNESS		EXPRESSED AS A PERCENTAGE.
SEVER	RAL HARD BLOWS (OF THE GEOLOG			SAPPOLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK. SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND
TO DE	ETACH HAND SPECI	MEN.	ONLY WITH DIFFICULTY, HARD HA		TREATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.
HARD EXCAN			. GOUGES OR GROOVES TO 0.25 IN DGIST'S PICK. HAND SPECIMENS CA		<u>SLICKENSIDE</u> - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.
HARD CAN E		SMALL CHIPS T	HES DEEP BY FIRM PRESSURE OF O PEICES 1 INCH MAXIMUM SIZE B		STANDARD PENETRATION TEST (PENETRATION RESISTANCE):GPT) - NUMBER OF BLOWS (N OR BBF) OF A 140 LB, HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH DUTSIDE DIAMETER SPLIT SPOON SAMPLER, SPT REFUSAL IS PENETRATION EQUAL TO OR LESS
SOFT CAN E	BE GROVED OR GOU CHIPS TO SEVERA	UGED READILY E AL INCHES IN S	Y KNIFE OR PICK. CAN BE EXCAVI IZE BY MODERATE BLOWS OF A PI		THAN 0.1 FOOT PER 60 BLOWS. STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.
VERY CAN E		NIFE. CAN BE E	XCAVATED READILY WITH POINT O		STRATA ROCK QUALITY DESIGNATION (SROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE
FINGE	RNAIL.		N BY FINGER PRESSURE. CAN BE		TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE. TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
	JRE SPACINO		BEDDII TERM	NG THICKNESS	
TERM VERY WIDE	SPAC: MORE THAN		VERY THICKLY BEDDED	> 4 FEET	BENCH MARK: BM*I-BL- STA.8+05.00 58'RT RR SPIKE IN BASE OF 36" POPLAR TREE N548.629 EI.718.383
WIDE	3 TO 10 FE	EET	THICKLY BEDDED THINLY BEDDED	1.5 - 4 FEET 0.16 - 1.5 FEET	ELEVATION: 325.53 FT.
MODERATELY CLO CLOSE	Ø.16 TO 1 F	EET	VERY THINLY BEDDED THICKLY LAMINATED	0.03 - 0.16 FEET 0.008 - 0.03 FEET	NOTES:
VERY CLOSE	LESS THAN		THINLY LAMINATED	< 0.008 FEET	ADDITIONAL ABBREVIATIONS:
			IRATION		
FOR SEDIMENTARY RO	CKS, INDURATION IS		IG OF THE MATERIAL BY CEMENTI	FIAD - BORING FILLED IN AFTER DRILLING	
FRIABLE			WITH FINGER FREES NUMEROUS GR LOW BY HAMMER DISINTEGRATES S	CV - CAVED	
MODERATEL	Y INDURATED		AN BE SEPARATED FROM SAMPLE N ASILY WHEN HIT WITH HAMMER.	WITH STEEL PROBE;	
INDURATED			RE DIFFICULT TO SEPARATE WITH T TO BREAK WITH HAMMER.	STEEL PROBE;	
EXTREMELY	INDURATED		MMER BLOWS REQUIRED TO BREAK REAKS ACROSS GRAINS.	SAMPLE:	





ACDOT BORE SINGLE SF-610036 GEO BRDG.GPJ NC DOT.GDT 3/20/14

