CONTENTS SHEET NO.

2

-3

4,5

DESCRIPTION

TITLE SHEET

MSE WALL ENVELOPES

SITE PLAN

LEGEND

U-2524D	
VCE:	
EREI	
REF	

34820 PROJECT

STATE OF NORTH CAROLINA

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

STRUCTURE SUBSURFACE INVESTIGATION

COUNTY _GUILFORD

PROJECT DESCRIPTION GREENSBORO - WESTERN LOOP FROM NORTH OF US 220 (BATTLEGROUND AVENUE) TO SR 2302 (LAWNDALE DRIVE) SITE DESCRIPTION MSE WALL NO. 12 & NO. 13

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U–2524D	1	5

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 SOLI TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT 1991 707-6860. THE SUBSIFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

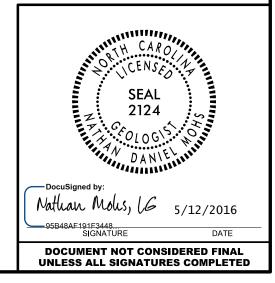
INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

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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 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.

PERSONNEL N. MOHS, LG TRIGON E. ESTEP T. PRESTON INVESTIGATED BY <u>N. MOHS, LG</u> DRAWN BY N. MOHS, LG CHECKED BY ______ D. BROWN, PE SUBMITTED BY <u>N. MOHS, LG</u>



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

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

			SOIL D	ESCRIP	TION					GF	RADATION						ESCRIPTION		
SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT									WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.						HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTE ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD				
ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICATION							. SOIL CLASSIF	ICATION	<u>UNIFORMLY GRADED</u> - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. <u>GAP-GRADED</u> - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES.						SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 BLOWS IN NON-COASTAL PLAIN MATERIAL, THE TRANSITION BETWEEN SOIL AND ROCK I				
IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH						IRS SUCH	ANGULARITY OF GRAINS						BY A ZONE OF	F WEATHERED ROCK.					
							C. FOR EXAMPLE		THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS:						S ARE TYPICA	CALLY DIVIDED AS FOLLO			
	S	OIL LEGE	ND AND I	ASHTO) CLAS	SSIFICA			ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED. MINERALOGICAL COMPOSITION							100 BLOWS PER	AIN MATERIAL THAT WOULD YIELD SP1 FOOT IF TESTED.		
GENERAL CLASS.		GRANULAR MATER (≤ 35% PASSING ■			Lay Materi Passing •		ORGANIC MATER	RIALS	MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC.							FINE TO COARSE	GRAIN IGNEOUS AND METAMORPHIC RO T REFUSAL IF TESTED. ROCK TYPE IN		
GROUP	A-1	A-3	A-2		-5 A-6		, A-2 A-4, A-5			DESCRIPTIONS WHEN			ROCK (CR)		GNEISS, GABBRO, S	SCHIST, ETC.			
CLASS.	A-1-a A-1-b	A-2-4 A-	2-5 A-2-6 A-2-	7			-3 A-6, A-7		COMPRESSIBILITY						NON-CRYSTALLINE FINE TO COARSE GRAIN METAMORPHIC AND NON-COA ROCK (NCR) SEDIMENTARY ROCK THAT WOULD VEILD SPT REFUSA				
SYMBOL	000000000000000000000000000000000000000									HTLY COMPRESSIBLE RATELY COMPRESSIBL	F	LL < 31 LL = 31 - 5	ø	COASTAL PLAIN			UDES PHYLLITE, SLATE, SANDSTONE, ET(SEDIMENTS CEMENTED INTO ROCK, BUT		
% PASSING	0000000000	5	2010 PM 2 PM PM 2	enconcenco .						LY COMPRESSIBLE		LL > 50		SEDIMENTARY F			OCK TYPE INCLUDES LIMESTONE, SANDS		
=10 =40	50 MX	E1 MI					NULAR SILT- CLAY	MUCK, PEAT		PERCENTA	GE OF MATER	IAL		(CP)					
*200	30 MX 50 MX 15 MX 25 MX	10 MX 35 MX 35	MX 35 MX 35 M	X 36 MN 36	MN 36 MN		SOILS	FEHI	ORGANIC MATERIAL	GRANULAR <u>SOILS</u>	SILT - CLAY SOILS	OTHER N	ATERIAL	FRESH F	OCK FRESH.CP		INTS MAY SHOW SLIGHT STAINING. ROCK		
MATERIAL									TRACE OF ORGANIC M LITTLE ORGANIC MAT	ATTER 2 - 3%	3 - 5%	TRACE LITTLE	1 - 10% 10 - 20%		HAMMER IF CRY				
PASSING 40	-	- 40 MX 41	MN 40 MX 41 M	40 MX 41	MN 40 MX	(41 MN	SOILS WITH		MODERATELY ORGANIC		5 - 12% 12 - 20%	SOME	20 - 35%				D, SOME JOINTS MAY SHOW THIN CLAY C SHINE BRIGHTLY. ROCK RINGS UNDER H		
PI	6 MX		MX 11 MN 11 M				LITTLE OR MODERATE	HIGHL Y	HIGHLY ORGANIC	> 10%	> 20%	HIGHLY	35% AND ABOVE		OF A CRYSTALL		Shine Bridmen, Nock hinds onder h		
GROUP INDEX	0	0 0	4 MX	8 MX 12	MX 16 MX	NO MX	AMOUNTS OF	ORGANIC SOILS		GROU	UND WATER						D AND DISCOLORATION EXTENDS INTO RO		
USUAL TYPES OF MAJOR	STONE FRAGS.	FINE SILT	OR CLAYEY	SILTY	CLF	AYEY	ORGANIC MATTER		∇	WATER LEVEL IN F	BORE HOLE IMMEDIA	TELY AFTER D	RILLING				Y. IN GRANITOID ROCKS SOME OCCASIONA CRYSTALLINE ROCKS RING UNDER HAMMEF		
MATERIALS	GRAVEL, AND SAND	Sand Grav	el and sand	SOILS	SO	DILS			▼	STATIC WATER LE	VEL AFTER 24	IOURS		MODERATE S	GNIFICANT PC	ORTIONS OF ROCK SHOW (DISCOLORATION AND WEATHERING EFFECT		
GEN. RATING		EXCELLENT TO G	00	FAI	IR TO POOR	FA!	r to poor	UNSUITABLE	<u> </u>	PERCHED WATER, S	SATURATED ZONE, OR	WATER BEARIN	NG STRATA				DULL AND DISCOLORED, SOME SHOW CLA		
AS SUBGRADE						PI	DOR	ONSOLUDEL	- M-O	SPRING OR SEEP				DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS (WITH FRESH ROCK.					
		PI OF A-7-5 SUBC	ROUP IS ≤ LL				- 30		0 ***	MISCELLA							OR STAINED. IN GRANITOID ROCKS, ALL F		
					OF STANE		RANGE OF UN			MISCELLH	NEOUS SYMBO						/ KAOLINIZATION. ROCK SHOWS SEVERE L GIST'S PICK. ROCK GIVES "CLUNK" SOUND		
PRIMARY	SOIL TYPE	COMPACT CONSIS		PENETRAT	TION RESIS		COMPRESSIVE (TONS/F	STRENGTH	L ROADWAY EMB		DIP & DIP DIR DIP & DIP DIR OF ROCK STRU			-		<u>ULD YIELD SPT REFUSAL</u>			
		VERY	0055	u	N-VALUE)		(1005/F	1-)					SLOPE INDICATOR				OR STAINED. ROCK FABRIC CLEAR AND E . IN GRANITOID ROCKS ALL FELDSPARS A		
GENERA GRANUL		LOC	SE		4 TO 10				SOIL SYMBOL	9	DPT DMT TEST BOP	NG	INSTALLATION	1	TO SOME EXTEN	NT. SOME FRAGMENTS OF	STRONG ROCK USUALLY REMAIN.		
MATERI	AL	MEDIUM			0 TO 30 0 TO 50		N/A			ILL (AF) OTHER	AUGER BORING	$\mathbf{\Delta}$	CONE PENETROMETER TEST	-		ULD YIELD SPT N VALUES	OR STAINED. ROCK FABRIC ELEMENTS AF		
(NON-CO	DHESIVE)	VERY			> 50					Y EMBANKMENT		\bigcirc	IESI	SEVERE E	BUT MASS IS E	EFFECTIVELY REDUCED TO	SOIL STATUS, WITH ONLY FRAGMENTS O		
CENEDA		VERY			< 2		< 0.2		- INFERRED SOI	L BOUNDARY -)- CORE BORING	•	SOUNDING ROD				OF ROCK WEATHERED TO A DEGREE THAT MAIN. <u>IF TESTED, WOULD YIELD SPT N V</u>		
GENERA SILT-CI		SOFT MEDIUM STIFF		2 TO 4 4 TO 8			0.25 TO 0.5 0.5 TO 1.0		INFERRED ROO	TEST BORING						K REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY			
MATERI (COHES)		STI VERY			3 TO 15 5 TO 30		1 TO 2 2 TO				PIEZOMETER	\sim	SPT N-VALUE		SCATTERED CON ALSO AN EXAMP		AY BE PRESENT AS DIKES OR STRINGERS		
100/120		HA			> 30		> 4		ALLUVIAL SOI		INSTALLATION	<u> </u>	SPT N-VHEUE	·			HARDNESS		
		T	EXTURE	OR GRA	IN SL	ZE				RECOMMEN	DATION SYMB	OLS		VERY HARD (ANNOT BE SCE		HARP PICK. BREAKING OF HAND SPECIMEN		
U.S. STD. SI			4 10	40	60		270									BLOWS OF THE GEOLOGIS			
OPENING (M	IM)		4.76 2.00				0.053								CAN BE SCRATC		ONLY WITH DIFFICULTY. HARD HAMMER B		
BOULDE (BLDR.			GR.)	COARSE SAND		F INE SAND	SILT (SL.)	CLAY (CL.)		ACCEPTABLE DEC	GRADABLE ROCK	EMBANKME	NT OR BACKFILL				GOUGES OR GROOVES TO 0.25 INCHES DE		
OLDN.	.,		04.7	(CSE. SD.)	(F SD.)	(32.7	(CL.)			REVIATIONS			HARD E	EXCAVATED BY	HARD BLOW OF A GEOLOG	GIST'S PICK. HAND SPECIMENS CAN BE D		
GRAIN MI SIZE IN		75 3	2.0		0.25	1	0.05 0.00	5	AR - AUGER REFUSAL MED MEDIUM VST - VANE SHEAR TEST BT - BORING TERMINATED MICA MICACEOUS WEA WEATHERED						Y MODERATE B		ES DEEP BY FIRM PRESSURE OF KNIFE C		
0122 1.		SOIL MOIS					DMC		_ CL CLAY MOD MODERATELY γ - UNIT WEIGHT						CAN BE EXCAVA	ATED IN SMALL CHIPS TO	PEICES 1 INCH MAXIMUM SIZE BY HARD		
SOTI	MOISTURE		FIELD MC						CPT - CONE PENETRATIO CSE COARSE		NON PLASTIC ORGANIC	∽∕d- DR	Y UNIT WEIGHT			EOLOGIST'S PICK.	KNIFE OR PICK. CAN BE EXCAVATED IN		
	TERBERG LI		DESCRI		GUIDE	; FOR FIEL	D MOISTURE DE	SCRIPTION	DMT - DILATOMETER TES		PRESSUREMETER TE		LE ABBREVIATIONS				ZE BY MODERATE BLOWS OF A PICK POIN		
			- SATURA	TED -	USUAI	LLY LIQUID	VERY WET, USU	JALLY	DPT - DYNAMIC PENETRA e - VOID RATIO		SAPROLITIC SAND, SANDY	S - BUL SS - SP	K LIT SPOON			BROKEN BY FINGER PRES			
LL -		LIMIT	(SAT.)		FROM	BELOW TH	E GROUND WAT	ER TABLE	F - FINE	SL S	SILT, SILTY	ST - S⊢	ELBY TUBE				XCAVATED READILY WITH POINT OF PICK. I BY FINGER PRESSURE. CAN BE SCRATCH		
PLASTIC		LIMIT			CEMIC		IRES DRYING T	0	 FOSS FOSSILIFEROUS FRAC FRACTURED, FRAC 		SLIGHTLY TRICONE REFUSAL	RS - RC RT - RE	ICK COMPACTED TRIAXIAL		INGERNAIL.				
RANGE <			- WET -	(W)		IN OPTIMUM		0	FRAGS FRAGMENTS	w - M	OISTURE CONTENT	CBR - C	ALIFORNIA BEARING		RACTURE		BEDDING		
PL L	PLASTI	IC LIMIT							HI HIGHLY	V - VE			ATIO	TERM VERY WIDE	,	SPACING MORE THAN 10 FEET	VERY THICKLY BEDDED		
OM	1 🖵 ОРТІМИ	JM MOISTURE	- MOIST	- (M)	SOLID); AT OR NE	AR OPTIMUM M	OISTURE	DRILL UNITS:	ADVANCING TOOLS:	J UN SUBJECT	HAMMER TY		WIDE		3 TO 10 FEET	THICKLY BEDDED 1		
SL	SHRINK	AGE LIMIT							CME-45C	CLAY BITS		X AUTOM		MODERATELY CLOSE	CLUSE	1 TO 3 FEET Ø.16 TO 1 FOOT	THINLY BEDDED 0.1 VERY THINLY BEDDED 0.0		
			- DRY -	D)		IRES ADDIT IN OPTIMUM	IONAL WATER T	0			S FLIGHT AUGER			VERY CLOSE	. L/	ESS THAN 0.16 FEET	THICKLY LAMINATED 0.00 THINLY LAMINATED <		
				CTICIT					X CME-55	X 8" HOLLOW AU		CORE SIZE:	П-н				JRATION		
				STICIT			00V 070-		СМЕ-550					FOR SEDIMENT	ARY ROCKS. IN		ENING OF MATERIAL BY CEMENTING, HE		
PLASTICITY INDEX (PI) DRY_STRENGTH NON PLASTIC 0-5 VERY LOW				X TUNGCARBID		<u>□</u> -N	<u> </u>	FRIABLE		RUBBING WITH	H FINGER FREES NUMEROUS GRAINS;								
SLIGHTLY PLASTIC 6-15 SLIGHT			VANE SHEAR TEST		W/ ADVANCER	HAND TOOLS		INIHOLE			W BY HAMMER DISINTEGRATES SAMPLE.								
	DERATELY P HLY PLASTI		20	16-25 6 OR MORE	:		MEDIUM HIGH		PORTABLE HOIST		27/8 ·STEEL TEETH		HOLE DIGGER	MODERAT	TELY INDURATE		BE SEPARATED FROM SAMPLE WITH ST LY WHEN HIT WITH HAMMER.		
				OLOR							TUNGCARB.		AUGER				DIFFICULT TO SEPARATE WITH STEEL		
									X <u>B-57</u>		1010. CHID.		ING ROD	INDURAT	ED		O BREAK WITH HAMMER.		
							LOW-BROWN, BLU						SHEAR TEST	FXTREM	ELY INDURATED		ER BLOWS REQUIRED TO BREAK SAMPLE		
•														EX TOCHL	2	SAMPLE BREF	AKS ACROSS GRAINS.		

PROJECT REFERENCE NO.

U-2524D

	TERMS AND DEFINITIONS
D. AN INFERRED	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.
SPT REFUSAL. FOOT PER 60	AUUIFER - A WATER BEARING FORMATION OR STRATA.
IS OFTEN	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, OR HAVING
N VALUES >	A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC. <u>ARTESIAN</u> - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT <u>MURLELIN</u> - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE CROWN
CK THAT CLUDES GRANITE,	WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.
IF TESTED.	<u>CALCAREOUS (CALC.)</u> - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE. <u>COLLUVIUM</u> - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.
MAY NOT YIELD TONE, CEMENTED	CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
	DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.
RINGS UNDER	$\underline{\text{DIP}}$ - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.
DATINGS IF OPEN, AMMER BLOWS IF	<u>DIP DIRECTION (DIP AZIMUTH)</u> - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.
CK UP TO L FELDSPAR	FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.
BLOWS.	FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.
S. IN Y. ROCK HAS AS COMPARED	FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.
	FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM. FORMATION (FM,) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE
ELDSPARS DULL OSS OF STRENGTH WHEN STRUCK.	FUCTION TO A CONTRACT OF THE PROPERTY OF THE CONTRACT OF THE CONTRACT OF THE PROPERTY OF THE P
WHEN STRUCK.	LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO
VIDENT BUT	ITS LATERAL EXTENT.
RE KAOLINIZED	LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.
	MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.
E DISCERNIBLE F STRONG ROCK	PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE
ONLY MINOR ALUES < 100 BPF	OF AN INTERVENING IMPERVIOUS STRATUM.
IN SMALL AND	<u>RESIDUAL (RES.)SOIL</u> - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. ROCK QUALITY DESIGNATION (ROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF
. SAPROLITE IS	ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
5 REQUIRES	$\underline{SAPROLITE}(\underline{SAP.})$ - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.
LOWS REQUIRED	<u>SILL</u> - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.
EP CAN BE ETACHED	$\underline{\text{SLICKENSIDE}}$ - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.
R PICK POINT. BLOWS OF THE	STANDARD PENETRATION TEST (PENETRATION RESISTANCE)(SPT)- NUMBER OF BLOWS (N OR BPF)OF A 140 LB.HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF I FOOT INTO SOLL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.
FRAGMENTS T. SMALL, THIN	<u>STRATA CORE RECOVERY (SREC.)</u> - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.
PIECES 1 INCH ED READILY BY	STRATA ROCK QUALITY DESIGNATION (SRQD) - 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 TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.
	TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
	BENCH MARK: BL-42; N: 870184.5 E: 1749152.8
THICKNESS 4 FEET	
.5 - 4 FEET	ELEVATION: 858.04 FEET
6 - 1.5 FEET 3 - 0.16 FEET	NOTES:
0.008 FEET 0.008 FEET	
AT, PRESSURE, ETC.	
EEL PROBE:	
PROBE:	
:	DATE: 8-15-14

