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**CONTENTS** 

**DESCRIPTION** 

LEGEND (SOIL & ROCK)

TITLE SHEET

BRIDGE PROFILE

CROSS SECTIONS

SITE PLAN

BORE LOGS SITE PHOTOS

SHEET NO.

5-6

7-10

2010800 **DF18203**. REFERENCE

STATE OF NORTH CAROLINA

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

### **STRUCTURE** SUBSURFACE INVESTIGATION

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PRO	JECT	DE	ESCR	RIPTIO	N _ <b>B</b>	RIDG	E ON	I SR	1528	3	
(E.	MO	OR	E S	T) OI	'ER	PRIC	E CI	REEK	BE	TWEE	EN
NC	H	WY	211	AND	SR	1527	(E. L	EONA	IRD	ST.)	
SITE	DES	SCR	IPTIC	N							

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18203 2010800	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 REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT 1991 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

CENERAL 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 LABDRATORY 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 NIDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY 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 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 OPINION 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 SATISTY HIMSELF 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 ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES:

  1. 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.

  2. 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.

MAD DRILLING G. ALBRIGHT INVESTIGATED BY HDR DRAWN BY \_C. SWAFFORD



HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116



CHECKED BY \_P. ZHANG SUBMITTED BY \_\_HDR DATE OCTOBER 2024

Paul Eliang

10/15/2024

SIGNATURE

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED** 

PROJECT REFERENCE NO.

DF18203.2010800

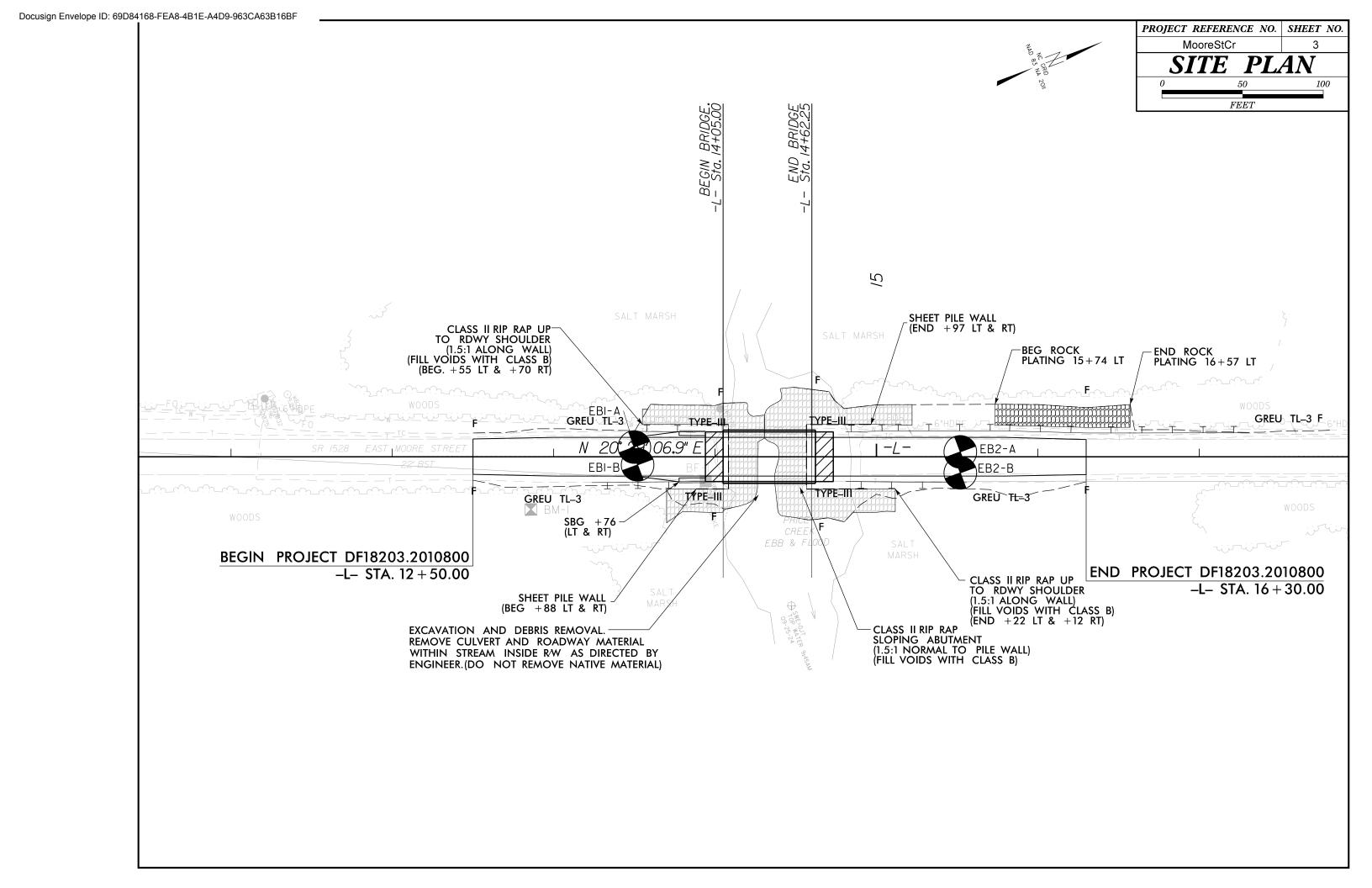
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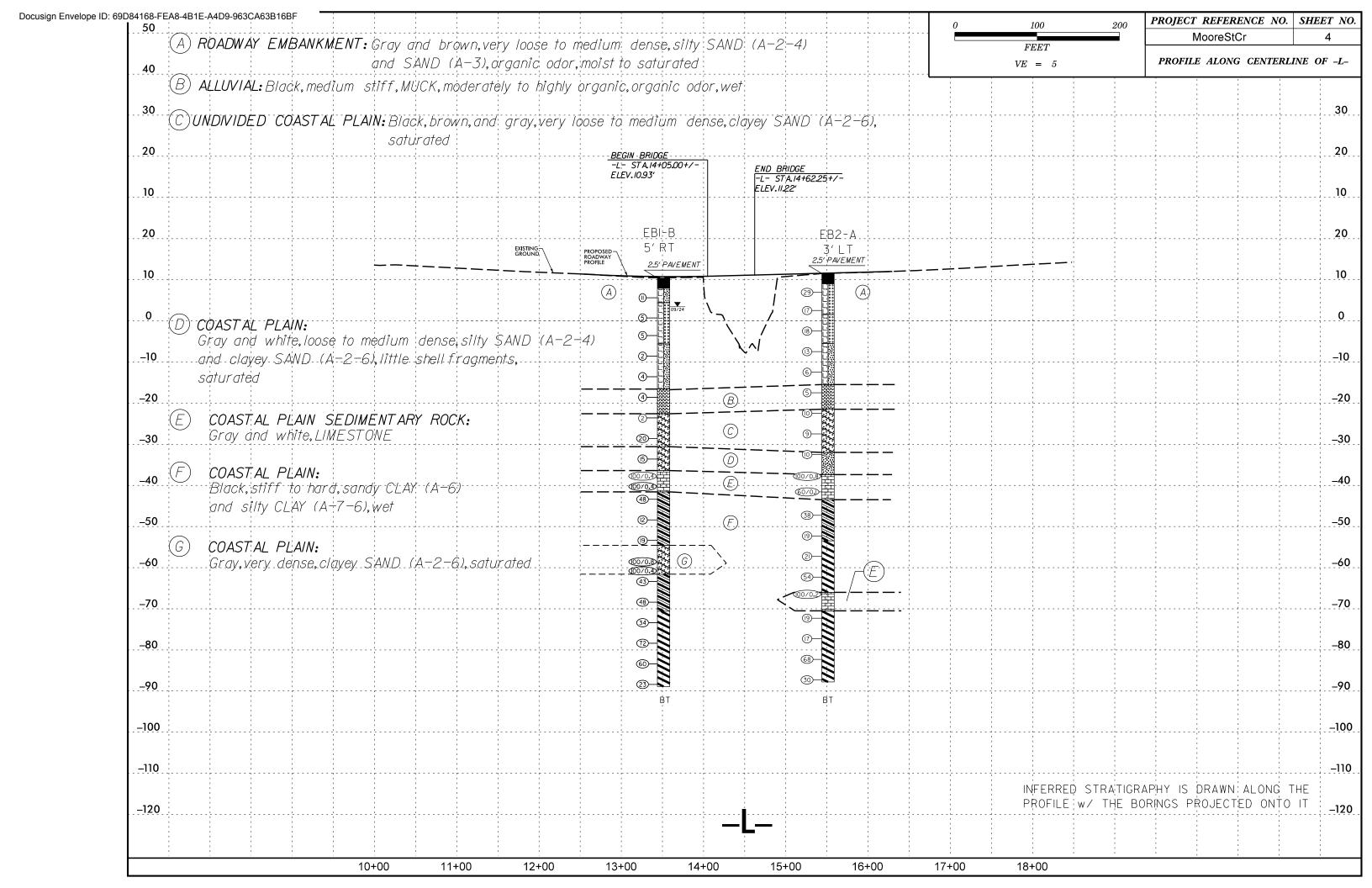
# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT

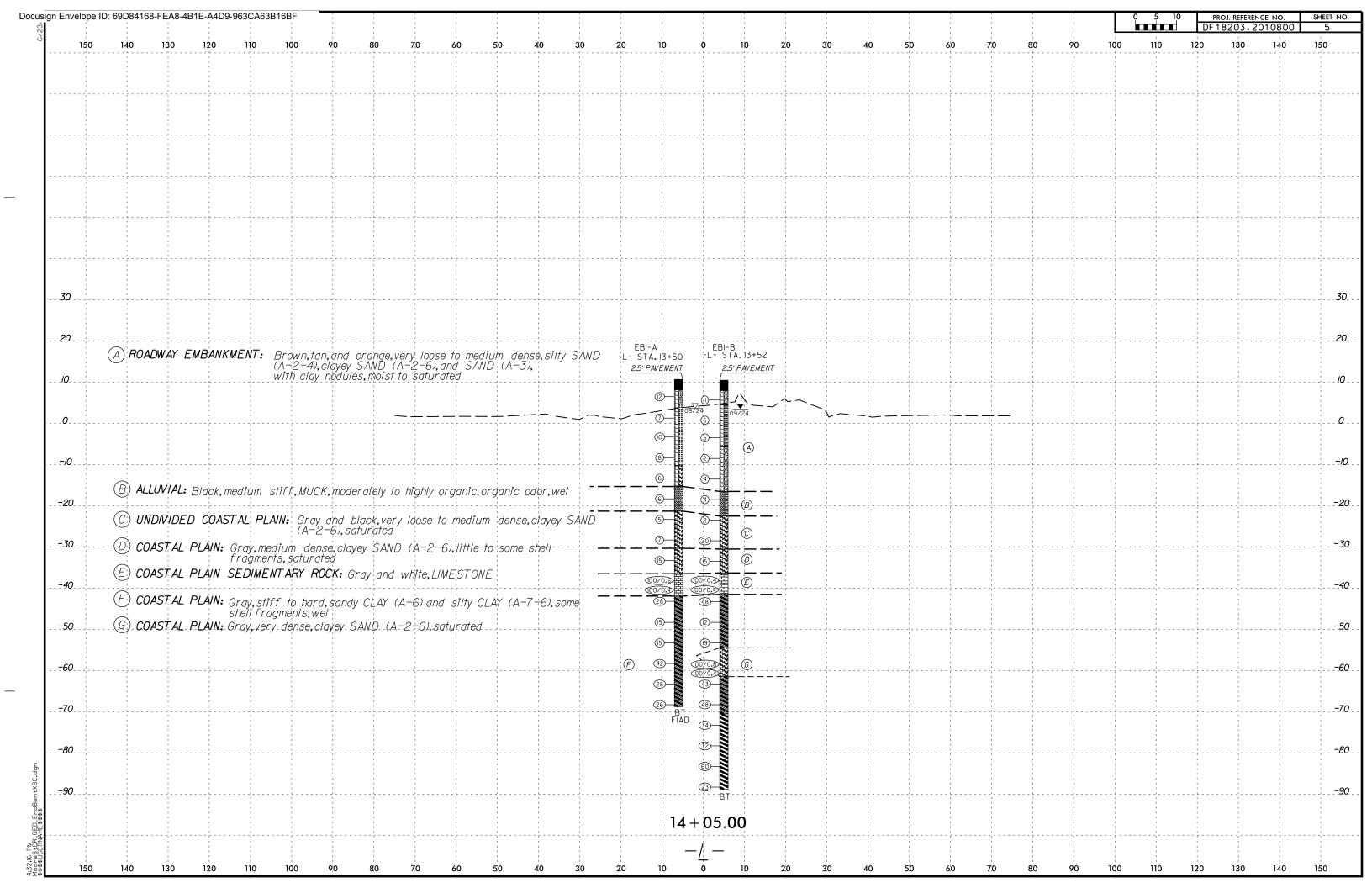
## SUBSURFACE INVESTIGATION

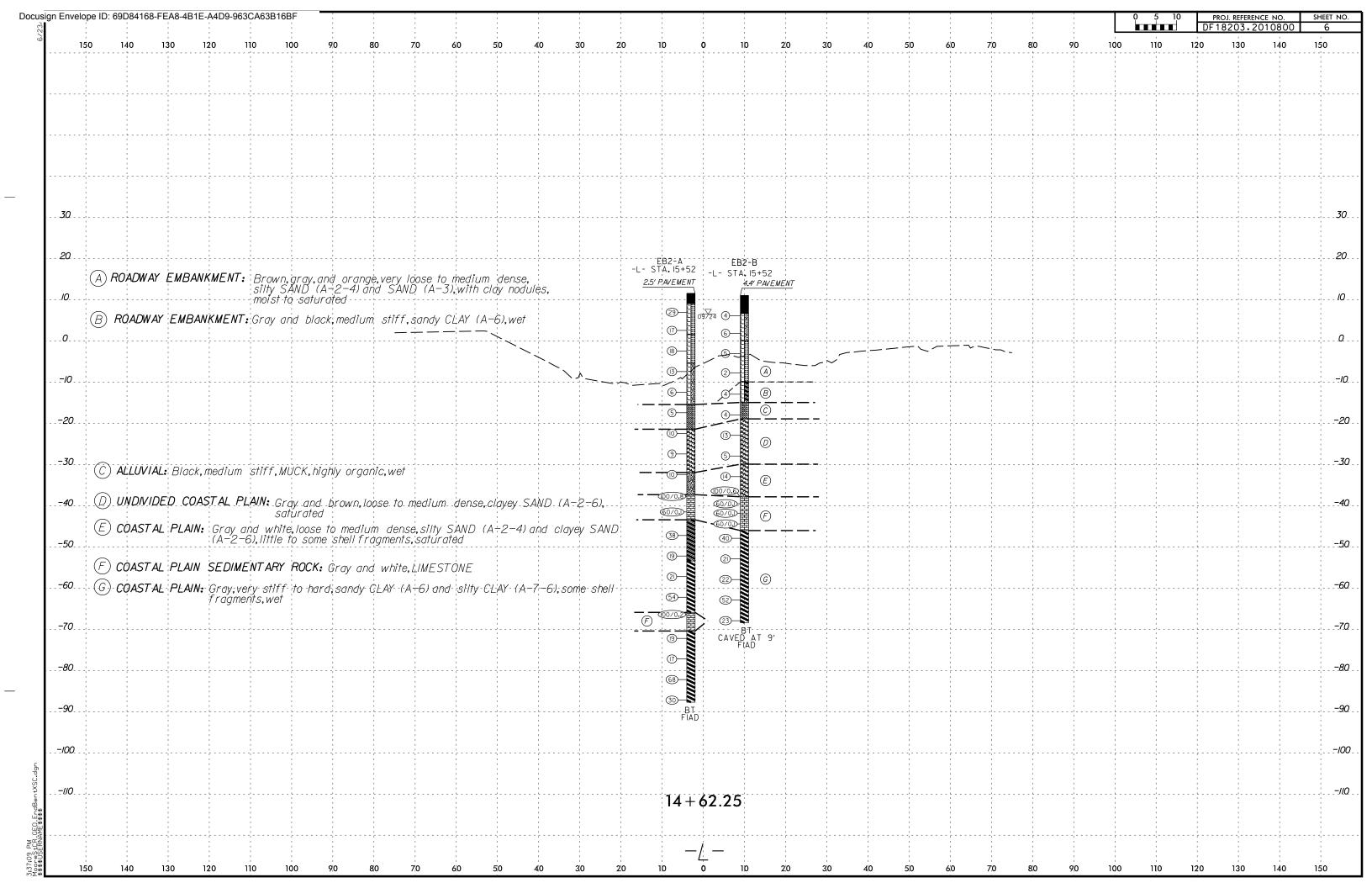
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

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 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 TESTED. 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.					
ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICATION	<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 FOOT PER 60 BLOWS IN NON-COASTAL PLAIN MATERIAL, THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN	AQUIFER - A WATER BEARING FORMATION OR STRATA.					
IS BASED ON THE AASHTO SYSTEM, BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH	ANGULARITY OF GRAINS	REPRESENTED BY A ZONE OF WEATHERED ROCK.	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 > ROCK (WR) 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	MINERALOGICAL COMPOSITION	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					
LLASS. (\$ 35% PASSING *200) (> 35% PASSING *200)	MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAQLIN, ETC.  ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.	ROCK (CR) WOULD YIELD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE, GNEISS, GABBRO, SCHIST, ETC.	SURFACE.					
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-1-0 A-1-b A-2-4 A-2-5 A-2-6 A-2-7 A-2-6 A-2-7 A-3-4-6 A-7 A-1, A-2 A-4, A-5 A-6, A-7	COMPRESSIBILITY	NON-CRYSTALLINE FINE TO COARSE GRAIN METAMORPHIC AND NON-COASTAL PLAIN SEDIMENTARY ROCK THAT WOULD YELLD SPT REFUSAL IF TESTED.	CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.  COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM					
SYMBOL 000000000000000000000000000000000000	SLIGHTLY COMPRESSIBLE LL < 31	ROCK TYPE INCLUDES PHYLLITE, SLATE, SANDSTONE, ETC.	OF SLOPE.					
	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 BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.					
7. PASSING SILT-GRANULAR SILT-GRANULAR CITAY MUCK,	PERCENTAGE OF MATERIAL	CP) SHELL BEDS, ETC. WEATHERING	DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT					
*40 38 MX 58 MX 51 MN PEAT SOILS PEAT SOILS SOILS PEAT	GRANULAR SILT - CLAY ORGANIC MATERIAL SOILS SOILS OTHER MATERIAL	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.	DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.					
PASSING *40	LITTLE ORGANIC MATTER 3 - 5% 5 - 12% LITTLE 10 - 20% MODERATELY ORGANIC 5 - 10% 12 - 20% SOME 20 - 35%	VERY SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN,	DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE					
PI 6 MX NP 10 MX 10 MX 11 MN 11 MN 10 MX 10 MX 11 MN 11 MN LITTLE UR HIGHLY	HIGHLY ORGANIC > 10% > 20% HIGHLY 35% AND ABOVE	(V SLI.) CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.	LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.					
GROUP INDEX 0 0 0 4 MX 8 MX 12 MX 16 MX NO MX AMOUNTS OF SOILS	GROUND WATER	SLIGHT ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO	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 STONE FRAGS. FINE SILTY OR CLAYEY SILTY CLAYEY MATTER  OF MAJOR GRAVEL, AND CAND CAND CAND CAND CAND CAND CAND		(SLI.) 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.	FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.					
MATERIALS SAND SAND GRAVEL AND SAND SOILS SOILS	▼ STATIC WATER LEVEL AFTER 24 HOURS	MODERATE SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN	FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM					
GEN. RATING EXCELLENT TO GOOD FAIR TO POOR POOR UNSUITABLE		(MOD.) GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY, ROCK HAS DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED	PARENT MATERIAL.					
AS SUBGRADE	- SPRING OR SEEP	WITH FRESH ROCK.	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					
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	FIELD.					
COMPACTNIESS OR RANGE OF STANDARD RANGE OF UNCONFINED	III 25 (025	(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 CONSISTENCY PENETRATION RESISTENCE COMPRESSIVE STRENGTH (N-VALUE) (TONS/FT <sup>2</sup> )	ROADWAY EMBANKMENT (RE)  OF ROCK STRUCTURES  ROADWAY EMBANKMENT (RE)  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.					
CENERALLY VERY LOOSE < 4	SOIL SYMBOL SPI DATE TEST BORING SLOPE INDICATOR	(SEV.) REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED	LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.					
GRANULAR LUUSE 4 10 10 M	N N N N N N N N N N N N N N N N N N N	TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN.  IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF	MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS					
MATERIAL  DENSE 30 TO 50	ARTIFICIAL FILL (AF) OTHER OUGER BORING COME PENETROMETER THAN ROADWAY EMBANKMENT AUGER BORING TEST	VERY ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE	USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.					
VERY DENSE   > 50	- INFERRED SOIL BOUNDARY - CORE BORING SOUNDING ROD	SEVERE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK (V SEV.) REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR	PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.					
GENERALLY SOFT 2 TO 4 0.25 TO 0.5	MILL DODING	VESTIGES OF ORIGINAL ROCK FABRIC REMAIN. <u>IF TESTED, WOULD YIELD SPT N VALUES &lt; 100 BPF</u>	RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.					
SILT-CLAY	INFERRED ROCK LINE MONITORING WELL WITH CORE	COMPLETE ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS	ROCK QUALITY DESIGNATION (RQD) - 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					
(COHESIVE) VERY STIFF 15 TO 30 2 TO 4 HARD > 30 > 4	TTTTT ALLUVIAL SOIL BOUNDARY A PIEZUMETER SPT N-VALUE	ALSO AN EXAMPLE.	RUN AND EXPRESSED AS A PERCENTAGE.					
TEXTURE OR GRAIN SIZE	RECOMMENDATION SYMBOLS	ROCK HARDNESS	SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.					
U.S. STD. SIEVE SIZE 4 10 40 60 200 270	UNDERCUT UNCLASSIFIED EXCAVATION - UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE ACCEPTABLE, BUT NOT TO BE	VERY HARD CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES  SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.	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		HARD CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED	RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO					
BOULDER COBBLE GRAVEL SAND SAND SILT CLAY	SHALLOW UNDERCUT UNCLASSIFIED EXCAVATION - EMBANKMENT OR BACKFILL	TO DETACH HAND SPECIMEN.	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 0.005 0.005 SIZE IN. 12 3	AR - AUGER REFUSAL MED MEDIUM VST - VANE SHEAR TEST BT - BORING TERMINATED MICA MICACEOUS WEA WEATHERED	BY MODERATE BLOWS.	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 1 FOOT INTO SOIL					
	CL CLAY MOD MODERATELY 7 - UNIT WEIGHT	MEDIUM CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT.  CAN BE EXCAVATED IN SMALL CHIPS TO PEICES I INCH MAXIMUM SIZE BY HARD BLOWS OF THE	WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL					
SOIL MOISTURE - CORRELATION OF TERMS  SOIL MOISTURE SCALE FIELD MOISTURE CHURC FOR FIELD MOISTURE	CPT - CONE PENETRATION TEST NP - NON PLASTIC 7 <sub>d</sub> - DRY UNIT WEIGHT CSE COARSE ORG ORGANIC	POINT OF A GEOLOGIST'S PICK.	TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.  STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY					
(ATTERBERG LIMITS)  DESCRIPTION  GUIDE FOR FIELD MOISTURE DESCRIPTION	DMT - DILATOMETER TEST PMT - PRESSUREMETER TEST <u>SAMPLE ABBREVIATIONS</u>	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	TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.					
- SATURATED - USUALLY LIQUID; VERY WET, USUALLY	DPT - DYNAMIC PENETRATION TEST SAP SAPROLITIC S - BULK e - VOID RATIO SD SAND, SANDY SS - SPLIT SPOON	PIECES CAN BE BROKEN BY FINGER PRESSURE.  VERY CAN BE CARVED WITH KNIFE, CAN BE EXCAVATED READILY WITH POINT OF PICK, PIECES 1 INCH	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					
(SAT.) FROM BELOW THE GROUND WATER TABLE	F - FINE SL SILTY ST - SHELBY TUBE FOSS FOSSILIFEROUS SLI SLIGHTLY RS - ROCK	SOFT OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY	THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.					
PLASTIC   SEMISOLID; REQUIRES DRYING TO   SEMISOLID; REQUIRES	FRAC FRACTURED, FRACTURES TCR - TRICONE REFUSAL RT - RECOMPACTED TRIAXIAL	FINGERNAIL.	TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.					
(PI) PLASTIC LIMIT ATTAIN OPTIMUM MOISTURE	FRAGS FRAGMENTS	FRACTURE SPACING BEDDING  TERM SPACING TERM THICKNESS	BENCH MARK: BMI: N69467, E2301768; BL STATION 19+52 16' RIGHT					
MOICT (M) COLID AT OR NEAR ORTIMIN MOICTURE	EQUIPMENT USED ON SUBJECT PROJECT	VERY WIDE MORE THAN 10 FEET VERY THICKLY BEDDED 4 FEET	ELEVATION: 5.68 FEET					
OM OPTIMUM MOISTURE - MOIST - (M) SOLID; AT OR NEAR OPTIMUM MOISTURE  SL SHRINKAGE LIMIT	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	NOTES:					
PEOLIPES ADDITIONAL WATER TO	X CME-45C CLAY BITS X AUTOMATIC MANUAL	CLOSE 0.16 TO 1 FOOT VERY THINLY BEDDED 0.03 - 0.16 FEET VERY CLOSE LESS THAN 0.16 FEET THICKLY LAMINATED 0.008 - 0.03 FEET						
- DRY - (D) ATTAIN OPTIMUM MOISTURE	CME-55 6° CONTINUOUS FLIGHT AUGER CORE SIZE:	THINLY LAMINATED < 0.008 FEET	BORING LOCATIONS AND ELEVATIONS OBTAINED USING SURVEY-GRADE GPS UNIT.					
PLASTICITY	8* HOLLOW AUGERS	INDURATION	FIAD- FILLED IMMEDIATELY AFTER DRILLING -ASPHALT PAVEMENT					
PLASTICITY INDEX (PI) DRY STRENGTH	L CME-550 L HARD FACED FINGER BITS -N	FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.  RUBBING WITH FINGER FREES NUMEROUS GRAINS;						
NON PLASTIC 0-5 VERY LOW SLIGHTLY PLASTIC 6-15 SLIGHT	VANE SHEAR TEST TUNGCARBIDE INSERTS HAND TOOLS:	FRIABLE CENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE.						
MODERATELY PLASTIC 16-25 MEDIUM HIGHLY PLASTIC 26 OR MORE HIGH	CASING W/ ADVANCER POST HOLE DIGGER	MODERATELY INDURATED GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE;						
COLOR	PORTABLE HOIST X TRICONE 3 3/8 STEEL TEETH HAND AUGER	BREAKS EASILY WHEN HIT WITH HAMMER.						
	TRICONE TUNGCARB. SOUNDING ROD	INDURATED GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; DIFFICULT TO BREAK WITH HAMMER.						
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY).  MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.	CORE BIT VANE SHEAR TEST	EXTREMELY INDURATED SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE;						
THE SOUND CONTROL CONTROL OF THE SOLD TO DESCRIBE MY EMPRICE.		SAMPLE BREAKS ACROSS GRAINS.	DATE: 8-15-14					









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WBS DF18203.2010800 TIP DF18203.2010800 COUNTY													GEOLOGIST G. Albright				WBS DF18203.2010800					TIP DF18203.2010800 COUNTY BRUNS								GEOLOGIST G. Albright							
SITE DESCRIPTION BRIDGE ON SR 1528 (E. MOORE ST) OVE													GRO	UND WT	R (ft)	'   <u> </u>				GE ON										GRO	UND WTR (ft)						
			OITAT	<b>N</b> 13	+50		OFFSET 6 ft LT				ALI	ALIGNMENT -L-			0 HF	0 HR.		BORIN	RING NO. EB1-A				STA	<b>ATION</b> 13+50		OFFSET 6 ft LT				ALIGN	MENT -	L-	O HF	<b>R.</b> 7.0			
COL	LAR E	LEV.	10.7 ft		Т	OTAL	DEPTH	<b>1</b> 79.5 f	t	NOR	THING	69,54	1	EAS	STING	2,301,75	54	24 HF	₹. ∣	FIAD	COLLA	AR ELI	<b>EV.</b> 10	).7 ft		тот	TAL DEPTH 79.5 ft		NORTHIN	<b>IG</b> 69,	541		EASTII	<b>NG</b> 2,30	1,754	24 HF	R. FIAD
DRIL	RIG/H	AMMER	R EFF./D	ATE	MID5464	CME-45	5C 74%	01/03/202	3	•		DRILL I	METHOD	Mud Rota	ary		HA	MMER TYP	PE Auton	natic	DRILL F	RIG/HAI	MMER E	FF./DATE	MID5	464 CI	ME-45C 74% 01/03/2023		•	DRILL	METHO	D M	ud Rotary		HA	MMER TYP	PE Automatic
DRI	LER	B. Coo	dy		S	TART	DATE	09/25/2	24	СОМ	P. DAT	<b>ΓE</b> 09/	26/24	SUF	RFACE	WATER I	DEPTH	N/A			DRILLI	<b>ER</b> B	. Cody			STA	ART DATE 09/25/24		COMP. D	ATE 0	9/26/24		SURFA	ACE WAT	ER DEPTH	N/A	
ELE\ (ft)	DRIV ELE\ (ft)	DEP (ft)	TH BL		COUNT oft 0.5ft	0	25	BLOWS	PER FOO	75	100	SAMP.	MOI	L O G ELEV.	. (ft)	SOIL AND	ROCK D	ESCRIPTIO		PTH (ft)	ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW 0.5ft 0			BLOWS PE 0 25 50		Γ 75 10	0 NO.		L O I G	•	SOIL	AND ROCK D	ESCRIPTIO	ON
15																					-65						Match	Line									
		<del> </del>												10.7		GRO	OUND SU	REACE		0.0		-67.3	78.0	14	13 1	13	:		.		w		- - - 68.8		COASTAL F y stiff to hard, s (continue	sandy CLA` ed)	79.5
10		+				<del>  -</del>								- 8.2		2.5' AS	PHALT PA	AVEMENT		2.5		-	-				<del></del>						- -	Boring Te	erminated at Ele CP: sandy CL/	evation -68 AY (A-6)	.8 ft IN
5	7.5	3.2	3	5	5 7		12			I			M	4.7		wn, tan, and SAND (A-	orange, r 2-4), with	clay nodule	nse, silty es	6.0		-	<u> </u>										- - -	HARD DRI	LLING AT 47.2 75.0'-78.0'		4'-73.0',
	2.3	8.4	4	3	3 4	. 1.     . 1.   . 1.   . 57							Sat.	000		Gray and br	own, loos	se, SAND (/	<b>4-</b> 3)			- - -											- - -				
0	-2.3	13.0	0 2	4	. 6	<del>     </del>   ·   ·   ·								- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 - 0								-	<del>-</del> -										<del>-</del> - -				
-5		‡					10 .															- - -	<u> </u>										- - - -				
-10	-7.3	18.0	0 3	3	5	.1. .•{	3			: : :			Sat.	-00-						21.0		- - -	<u> </u>										- - -				
	-12.3	23.0	0 2	2	2 4	_							Sat.		Bro	wn and gray	loose, cl	ayey SAND	(A-2-6)			- -	<del> </del>  -  -										- - -				
-15	-17.3	‡ + 28.0	0								• •			-15.3 -15.3	 Bla	ack, medium	ALLUVIA stiff, MU	CK, highly o		<u>26.0</u>		- - -	<u> </u>										- - - -				
-20		‡	2		2 4	<b>6</b>							<b>w</b>	~~~ - - -21.3			organic o			32.0		- - -	<u> </u>										- - -				
-25	-22.3	33.0	2	3	3 2	5.							Sat.			UNDIVID ay and black,	Ioose, cla	STAL PLAI ayey SAND	N				<del> </del>										- - -				
	-27.3	38.0	0 2	2	2 5								Sat.									-											- - -				
-30	-32.3	43.0	0 -				\						% % % % %	-30.3		ay, medium d	ASTAL Flense, cla	yey SAND	 (A-2-6),	41.0		- - -	<u> </u>										- - - -				
-35		‡		'	8		15						Sat.	-36.5		som	e shell fra	agments		47.2		- -	<u> </u>										- -  -				
-40	-37.3 -39.8	+ 48.0 + 50.5	6		0 30/0.	T : :					100/0.6				CC	<b>DASTAL PLA</b> Gray a		MENTARY Limestone	ROCK			-	<u> </u>										- - -				
\$7/8/0L -45	-42.2	52.9	- 1		4 14			28:	· · · · · · · · · · · · · · · · · · ·	·   · 1	100/0.4		w	-41.9	Gr	CC ray, very stiff	DASTAL F to hard, s	PLAIN sandy CLA	Y (A-6)	52.6		- - -	<del> </del>  -  -										- - -				
2	-47.3	58.0	0 6	6	5 9	<del> </del>	. / . /. •15						w									- - -	† - -										 - -				
-50	52.3	63.0	0 5		5 9		.			: : :												- - -	<u>†</u> -										- - - -				
-55 -51		<u> </u>			,   3						::		W									- -											- - - -				
-60 -60	57.3	68.0	20	1;	3 29			42					w									- -	<u> </u>										- - -				
2 -65	-62.3	73.0	0 14	13	3 15	· · ·     · · · · · · · · · · · · ·		28° · ·					w									- - -	†  -  -										- - -				

<b>WBS</b> DF18203.2010800	TIP DF18203.2010800 COUN	TY BRUNSWICK	GEOLOGIST G. Albright	WBS DF18203.2010800 TIP DF18203.2010800 COUNTY	BRUNSWICK GEOLOGIST G. Albright
SITE DESCRIPTION BRIDGE O			GROUND WTR (ft)	SITE DESCRIPTION BRIDGE ON SR 1528 (E. MOORE ST) OVER PR	
BORING NO. EB1-B	<b>STATION</b> 13+52	OFFSET 5 ft RT	ALIGNMENT -L- 0 HR. 6.2		OFFSET 5 ft RT ALIGNMENT -L- 0 HR. 6.2
COLLAR ELEV. 10.5 ft	TOTAL DEPTH 99.3 ft	<b>NORTHING</b> 69,539	<b>EASTING</b> 2,301,765 <b>24 HR</b> . 7.0		NORTHING 69,539
DRILL RIG/HAMMER EFF./DATE MID		DRILL METHOD		DRILL RIG/HAMMER EFF./DATE MID5464 CME-45C 74% 01/03/2023	DRILL METHOD Mud Rotary HAMMER TYPE Automatic
DRILLER B. Cody	<b>START DATE</b> 09/25/24	COMP. DATE 09/25/24	SURFACE WATER DEPTH N/A		COMP. DATE 09/25/24 SURFACE WATER DEPTH N/A
ELEV DRIVE DEDTU BLOW COLL	<u> </u>	ot SAMP.	L	ELEV DRIVE DEPTH BLOW COUNT BLOWS PER FOOT	SAMP     L
(ft) ELEV (ft) 0.5ft 0.5ft	I	75 100 NO. MOI	O SOIL AND ROCK DESCRIPTION G ELEV. (ft) DEPTH (ft)	(ft) ELEV (ft) (ft) 0.5ft 0.5ft 0.5ft 0 25 50 75	I I I Z I O I SOIL AND ROCK DESCRIPTION
15				-65 Match Line	
T			F	67.3 + 77.8	Black, hard, sandy CLAY (A-6) (continued)
			- 10.5 GROUND SURFACE 0.0	20 21 27	: : : :
10	<u> </u>		2.5' ASPHALT PAVEMENT	-70	-70.5 Black, hard to very stiff, silty CLAY (A-7-6)
6.7 + 3.8			8.0 2.5  ROADWAY EMBANKMENT	-72.3 + 82.8	W
	5 . •11	""	Gray and brown, medium dense, silty SAND  4.5 (A-2-4), with clay nodules 6.0	-75	
			Gray, loose, SAND (A-3)	77.3 + 87.8	::::     <b>\S</b> t
1.8 + 8.7   3   2	3	·   · · · ·         [		12   31   41	72 · · · ·
	1	<del>-    </del>     [		-80	<del>  </del>
-2.5 + 13.0 2 2	$\frac{}{3}$		- 0 0	82.3 + 92.8	::::       w 😂
-5	<b>9</b> 5	·           Sai.		_85	
-7.5 + 18.0			Brown and gray, very loose to loose, silty SAND (A-2-4)	87.3 + 97.8	::::       <b>\S</b> t
1   2	0 2	Sat.	-		99.i
-10		<del>-    </del>             [			Boring Terminated at Elevation -88.8 ft IN CP: silty CLAY (A-7-6)
-12.5 + 23.0	2	-			HARD DRILLING AT 46.8'-52.0' BGS
-15	-   ••• · · · · · · · · · · · · · · · · ·	·   · · · ·			
-17.5 + 28.0			-16.5 27.0		
+   1   2	2 4	1 1 1 VV P	Black, medium stiff, MUCK, moderately organic, organic odor		
-20			0.5 gains, o. gains coo.		
-22.5 + 33.0	1		-22.5 UNDIVIDED COASTAL PLAIN 33.0		
-25	• • • • • • • • • • • • • • • • • • • •	·   · · · ·	Black and gray, very loose to medium dense, clayey SAND (A-2-6)		
-27.5 + 38.0					
-30	9	I I I Sat. te			
+			*-30.5 41.0   COASTAL PLAIN		
-32.5 + 43.0   5   8	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Gray, medium dense, clayey SAND (A-2-6), little shell fragments		
-35	15			‡	
-37.5 + 48.0	::'-++-	, , , , , , , , , , , , , , , , , , ,	COASTAL PLAIN SEDIMENTARY ROCK	‡	
-40 <u>-39.8</u> 50.3		400/0 4	Gray and white, Limestone	‡	
T 100/0.4		100/0.4	-41.5	‡	
-42.3 + 52.8 - 16 22	26	:   : : : :     w	Gray, stiff to hard, sandy CLAY (A-6), with	‡	
		<del></del>	some shell fragments	‡	
-47.3 + 57.8 6 5	7				
	1 12 · · · · · · · · · · · · · · · · · ·		¥		
-42.3 52.8 16 22 -45 16 22 -47.3 57.8 6 5 -50 -50 -52.3 62.8 5 7					
80 -32.3 + 02.8 5 7	12	·   · · · · ·     w	-54.5	±	
<u> </u>			Gray, very dense, clayey SAND (A-2-6)	‡	
-57.3 67.8 17 50 E	50/0.3	`;\;\;\;\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		‡	
				±	<u> </u>
		100/0.4	-61.5 Black, hard, sandy CLAY (A-6) 72.0	‡	
	18	·   · · · ·	Sidon, ridid, suring SEAT (APO)	‡	
S -65 T					

WBS	S DF	18203.20	10800	Т	<b>IP</b> DF182	03.201080		Y BRUNS			GEOLOG	G. Albrigh	nt		WBS DF18	3203.2010	0800	TIF	<b>P</b> DF18203.	2010800 <b>COU</b>	NTY BRUNS	WICK		GEOLO	GIST G. Albrig	ht	
SITE DESCRIPTION BRIDGE ON SR 1528 (E. MOORE ST) OVER F								1	GROUND WTR (ft)				SITE DESCRIPTION BRIDGE ON SR 1528 (E. MOORE ST) OVER									GRO					
	BORING NO. EB2-B STATION 15+52			<del></del>					ALIGNMENT -L- 0 HR. Caved			BORING NO. EB2-B				STATION 15+52			10 ft RT		ALIGN	MENT -L-		HR. Caved			
COL	COLLAR ELEV. 11.1 ft TOTAL DEPTH 79.5 ft		ft	<b>NORTHING</b> 69,725			<b>EASTING</b> 2,301,839 <b>24 HR.</b> FIAD			COLLAR ELEV. 11.1 ft TOTAL DEPTH 79.5 ft						NORTHIN	<b>IG</b> 69,72	25	EASTIN	<b>EASTING</b> 2,301,839 <b>24</b> HF							
DRIL	L RIG/	/HAMMER E	FF./DATE	MID5464	CME-45C 74	% 01/03/202	23		DRILL M	ETHOD M				DRILL RIG/HAMMER EFF./DATE MID5464 CME-45C 74% 01/03/2023						DRILL	METHOD	Mud Rotary		HAMMER	TYPE Automatic		
DRII		B. Cody		s	TART DAT	<b>E</b> 09/26/2	24	COMP. DATE 09/26/24			SURFACE WATER DEPTH N/A			DRILLER B. Cody START DATE 09/26/24					COMP. D	ATE 09	/26/24	SURFACE WATER DEPTH N/A					
ELEV (ft)	DRI' ELE (ft	VE EV DEPTH (ft)	0.5ft 0.5		0		PER FOO	T 75 100	SAMP.	/ 0	ELEV. (ft)	SOIL AND ROC	K DESCRIPTION	I DEPTH (ft)	ELEV DRIVE ELEV (ft)	1∟	BLOW Co 0.5ft 0.5f		0 25	BLOWS PER FO	OOT 75 10	SAMP.	MOI		SOIL AND RO	CK DESCR	PTION
15											_				-65	<del> </del>				Match Line		++		<del></del> -		TAL PLAIN	
		‡									- 11.1	GROUND	SURFACE	0.0	-66.9	78.0	4 9	14	<b>.</b>			Ц	w	-68.4	,	ntinued)	79.5
10		+				1	+		- 1		-		VEMENT (4.4')			‡								Ė	Boring Terminated CP: silty (	at Elevation CLAY (A-7-6	
	7.3	2 + 3.9			] ;::::						- - - 6.7			4.4		‡								-	HARD DRILLING	S AT 49.0'-5	7.1' BGS
5		Ŧ	10 3	1	4					М	- 0.7 - D		MBANKMENT	·AND		‡								F			
	2.9	9 1 8.2									BI	rown, gray and orai (A-2-4), with	nge, loose, slity S n clay nodules	יבווט		Ŧ								E			
		-	3 3	3	]   ∳6 : :					M L						<u> </u>								E			
0		+				1	+		$  \cdot  $		<u> </u>	Brown and tan, loose	e to very loose, S	AND 11.0		†								-			
	-2.	.0 13.1	2 2	3						Sat.	-	(A	<b>4-3</b> )			‡								-			
-5		‡			T°				<u> </u>	Sat.	- <del>-</del>					‡								-			
	-6.	.7 ‡ 17.8	1 1 1	1	-   ;:::::						<u>-</u>					‡								-			
-10		‡	'   '	'	2					Sat.				21.0		‡								-			
-10		1.9 23.0				1	1		<del> </del>		<del>_</del> - <u>9.</u> 9	Gray and black, med	dium stiff, sandy C	CLAY 21.0		‡								-			
	-11	<del>.9   23.0</del>	1 2	2	1					w	<del>-</del>	(2	4-0)			‡								-			
-15		‡					<u> </u>		<b>↓</b>	W	-14.9	<u>-</u>	UVIAL — — —	26.0		‡								<u> </u>			
	-16	5.9 ‡ 28.0	1 2	2	<u> </u>					w \$5555	В	Black, medium stiff,		ganic		‡								-			
-20		‡			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					*****	- <u>-18.9</u>	UNDIVIDED C	OASTAL PLAIN	30.0		‡								-			
		.9 <sup>+</sup> 33.0			- \	1			1	<i>///</i> //	Gr	ray, medium dense	to loose, clayey 5 -2-6)	SAND		‡								-			
		+ 00.0	7 5	8	13.					Sat.	<del>-</del>	(,,	20)			‡								F			
-25		Ŧ			<del>                                    </del>	1			-	<b>*</b> //	<u>-</u>					‡								F			
	-26	5.9 <del> </del> 38.0	2 2	3						Sat.	_					Ŧ								E			
-30		Ξ			3		1	<b>I</b>	]	<i>*</i> ///	<u>-29.9</u>			41.0		Ξl								E			
	-31	.9 43.0			. \						_ Gr	rav. medium dense.	AL PLAIN , clayey SAND (A	-2-6),		<u>†</u>								ţ			
		‡	2 5	9	· · •14					Sat.	_	with some sh	hell fragments			‡								ţ			
-35							+		$\parallel \parallel \parallel$	<i>////</i>	<u>-</u> -					‡								<b> </b>			
	36	5.9 48.0	3 12	2 88/0.1	┥╽┊╬	· · · ·	:	100/0.6			-37.8	OASTAL PLAIN S	EDIMENTARY	48.9		‡								ţ			
-40	-39	0.4 + 50.5	60/0.1					60/0.1	<b> </b>		_ `		ite, Limestone	OUN		‡								<u> </u>			
10/8/24	-41	7 52.8	60/0.1						$  \downarrow  $	臣	<del>-</del> -					‡								ţ			
	-44	+ +.3 + 55.4							$\Pi = \Pi$		<del>-</del>					‡								ţ			
9		58.0 5.9 58.0	60/0.1			· ·		60/0.1	.Ť		-46.0	COAST	AL PLAIN	57.1		‡								F			
DOT	-40	,	14 18	3 22						w		Gray, very stiff to ha	ard, silty CLAY (A	-7-6)		‡								ļ.			
2 -50	4	‡				· / · ·	+ · · ·		$  \cdot  $		<del>-</del>					‡								F			
DF18203.GPJ	-51	.9 ‡ 63.0	7 9	12		<b>/</b>				w	-					‡								F			
-55- 182(		Ŧ									-					‡								F			
		5.9 ± 68.0			]			: : : : :	]							Ŧ								E			
DOUBLE		Ŧ	5 8	14		22				w						<u> </u>								E			
-60		$\pm$				+	+ : : :		$\parallel \parallel \parallel$							<del>[</del>								F			
OT BC	-61	.9 <del> </del> 73.0	35 28	3 24	$\{  \cdot  \cdot  \cdot  $		52			w						<u> </u>								E			
OON -65		Ŧ				,					_					Ŧ								F			

 PROJECT REFERENCE NO.
 SHEET NO.

 DF18203.2010800
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# SITE PHOTOGRAPHS





**DOWNSTATION -L-**







DOWNSTATION -L-

