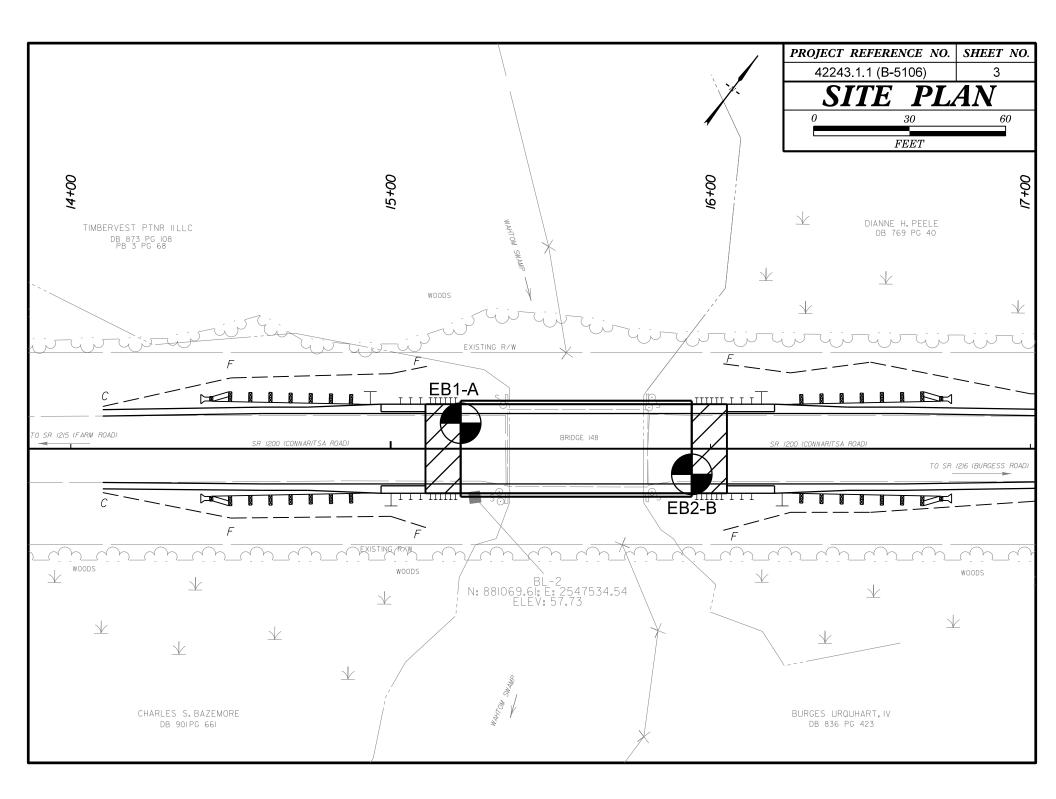


		PROJECT REFERENCE NO. SHEET NO.							
		42243.1.1 (B–5106) 2							
DIVIS	ION OF	MENT OF TRANSPORTATION F HIGHWAYS NGINEERING UNIT							
SUBSURFAC		NVESTIGATION							
	, TERMS (PAGE	S, SYMBOLS, AND ABBREVIATIONS 1 OF 2)							
SOIL DESCRIPTION		GRADATION							
SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERI/ BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BL ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM 01586). SOIL CL IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FC	OWS PER FOOT ASSIFICATION	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.							
CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT I AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EX	FACTORS SUCH	ANGULARITY OF GRAINS THE ANGULARITY OF ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS:							
VERY STIFF.GRAY. SILTY CLAY. MOIST WITH INTERBEDDED FINE SAND LAYERS. HIGHLY PLASTIC, SOIL LEGEND AND AASHTO CLASSIFICATION	. <i>м=1 -</i> b	ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.							
LLASS. (\$ 35% PASSING #200) (\$ 35% PASSING #200)	MATERIALS	MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC.							
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-	-4. A-5 -6. A-7	ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE. COMPRESSIBILITY							
STMBOL		SLIGHTLY COMPRESSIBLE LL < 31 MODERATELY COMPRESSIBLE LL = 31 - 50							
"IU 50 MX GRANULAR	SILT- MUCK,	HIGHLY COMPRESSIBLE LL > 50 PERCENTAGE OF MATERIAL							
	SOILS PEAT	GRANULAR SILT - CLAY <u>ORGANIC MATERIAL SOILS SOILS OTHER MATERIAL</u>							
MATERIAL PASSING *40 SOILS WIT	н	TRACE OF ORGANIC MATTER 2 - 3% 3 - 5% TRACE 1 - 10% LITTLE ORGANIC MATTER 3 - 5% 5 - 12% LITTLE 10 - 20% MODERATELY ORGANIC 5 - 10% 12 - 20% SOME 20 - 35%							
LL – – – 48 MX 41 MN LITLE OF PI 6 MX NP 18 MX 18 MX 11 MN 11 MN 18 MX 18 MX 11 MN 11 MN MODERATE	R HIGHLY	HIGHLY ORGANIC > 10% > 20% HIGHLY 35% AND ABOVE							
GROUP INDEX Ø Ø Ø 4 MX 8 MX 12 MX 16 MX ND MX AMOUNTS 0 ORGANIC USIAL TYPES STONE FRACS		GROUND WATER							
OF MAJOR GRAVEL, AND SAND GRAVEL AND SAND SOILS SOILS		STATIC WATER LEVEL IN BORE HOLE IMMEDIATELT AFTER DAILLING							
GEN. RATING AS SUBGRADE EXCELLENT TO GOOD FAIR TO POOR FOR	POOR UNSUITABLE	✓ PW PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA ○ 000 ○							
PI OF A-7-5 SUBGROUP IS ≤ LL - 30 ;PI OF A-7-6 SUBGROUP IS > LL - 30									
	F UNCONFINED								
PRIMARY SUL TTPE CONSISTENCY PENETRATION RESISTENCE COMPRESS (N-VALUE) (TO	SIVE STRENGTH DNS/FT ²)								
GENERALLY VERY LOOSE < 4 GRANULAR LOOSE 4 TO 10 MEDIUM DENSE 10 TO 30	N/A	SOIL SYMBOL							
MATERIAL MELIUM DENSE 10 00 (NON-COHESIVE) DENSE 30 10 50 VERY DENSE > 50	- 47 11	ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT L							
VERY SOFT < 2	< 0.25 5 TO 0.5	- INFERRED SOIL BOUNDARY CORE BORING SOUNDING ROD							
SILT-CLAY MEDIUM STIFF 4 TO 8 0.1 MATERIAL STIFF 8 TO 15	5 TO 1.0 1 TO 2	TITEINE INFERRED ROCK LINE MONITORING WELL TEST BORING WITH CORE							
(COHESIVE) VERY STIFF 15 TO 30 2 HARD > 30	2 TO 4 > 4	TTTTTT ALLUVIAL SOIL BOUNDARY A PIEZOMETER - SPT N-VALUE							
TEXTURE OR GRAIN SIZE		RECOMMENDATION SYMBOLS INDERCUT INCLASSIFIED EXCAVATION - The second seco							
U.S. STD. SIEVE SIZE 4 10 40 60 200 270 DPENING (MM) 4.76 2.00 0.42 0.25 0.075 0.053		EXCAVATION IN UNSUITABLE WASTE STATUS ACCEPTABLE, BUT NOT TO BE USED IN THE TOP 3 FEET OF							
BOULDER COBBLE GRAVEL COARSE FINE SILT (BLDR.) (COB.) (GR.) (SAND SAND SILT		UNDERCUT CONCLASSIFIED ECCANDABLE ROCK EMBANKMENT OR BACKFILL ABBRE VIATIONS							
GRAIN MM 305 75 2.0 0.25 0.05	0.005	AR - AUGER REFUSAL MED MEDIUM VST - VANE SHEAR TEST BT - BORING TERMINATED MICA MICACEOUS WEA WEATHERED							
SIZE IN. 12 3 SOIL MOISTURE - CORRELATION OF TERMS		BI - BURING TERMINATED MILA MILALEUUS WEAL WEATHERED CL CLAY MODERATELY γ - UNIT WEIGHT CPT - CONE PENETRATION TEST NP - NON PLASTIC $\gamma_{\rm T}$ - DRY UNIT WEIGHT							
SOIL MOISTURE SCALE FIELD MOISTURE (ATTERBERG LIMITS) DESCRIPTION GUIDE FOR FIELD MOISTUR	RE DESCRIPTION	CSE COARSE DMT - DILATOMETER TEST DMT - DILATOMETER TEST PMT - PRESSUREMETER TEST SAMPLE ABBREVIATIONS							
- SATURATED - USUALLY LIQUID; VERY WE		DPT - DYNAMIC PENETRATION TEST SAP SAPROLITIC S - BULK e - VOID RATIO SD SAND, SANDY SS - SPLIT SPOON							
LL LIQUID LIMIT (SAT.) FROM BELOW THE GROUND		F - FINE SL SILT, SILTY ST - SHELBY TUBE F0SS F0SSILIFEROUS SLI SLIGHTLY RS - ROCK FRAC FRACTURED, FRACTURES TCR - TRICONE REFUSAL RT - RECOMPACTED TRIAXIAL							
(PI) PL PLASTIC LIMIT	E	FRAGS FRAGMENTS w - MOISTURE CONTENT CBR - CALIFORNIA BEARING HI HIGHLY V - VERY RATIO							
OM OPTIMUM MOISTURE MOIST - (M) SOLID; AT OR NEAR OPTIM SL SHRINKAGE LIMIT		DRILL UNITS: ADVANCING TOOLS: HAMMER TYPE: CME-45C CLAY BITS X AUTOMATIC MANUAL							
- DRY - (D) REQUIRES ADDITIONAL WAT ATTAIN OPTIMUM MOISTUR		CME-55							
PLASTICITY									
NON PLASTIC Ø-5 VER	STRENGTH RY LOW								
MODERATELY PLASTIC 16-25 ME	LIGHT EDIUM HIGH	VANE SHEAR TEST X CASING W/ ADVANCER HAND TOOLS:							
COLOR		PORTABLE HOIST X TRICONE'STEEL TEETH HAND AUGER HAND AUGER TRICONE'TUNG-CARB SOUNDING ROD							
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROW) MODIFIEDS SUCH AS LIGHT DARY STREAMED FTC ARE USED TO DESCRIBE AREA		X <u>CME-75 (TER6847)</u> CORE BIT SOUNDING NOD							
MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPER	HRANLE.								

						PROJECT REFERENCE NO.	SHEET NO.
						42243.1.1 (B-5106)	<u>2A</u>
		NORTH		EPARTME ON OF 1		F TRANSPORTATION WAYS	
		GEO1				EERING UNIT	
	SL	JBS	URFAC	E IN	IVI	ESTIGATION	r
	SOIL	AND R	-	TERMS, S PAGE 2 (OLS, AND ABBREVIATION	IS
	IC NON-COASTAL PLAIN		CRIPTION DULD YIELD SPT REFUSAL IF TEST			TERMS AND DEFINITIONS	
ROCK LINE I	INDICATES THE LEVEL A	AT WHICH NON-COAS	TAL PLAIN MATERIAL WOULD YIELD IPLER EQUAL TO OR LESS THAN 0.) SPT REFUSAL.		ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. A WATER BEARING FORMATION OR STRATA.	
REPRESENTE	ION-COASTAL PLAIN MA D BY A ZONE OF WEATH MALS ARE TYPICALLY DI	HERED ROCK.	SITION BETWEEN SOIL AND ROCK	IS OFTEN		S - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND	
WEATHERED		NON-COASTAL PLAIM	MATERIAL THAT WOULD YIELD SP	T N VALUES >	A NOTABLE	DUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF (PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE	, SLATE, ETC.
ROCK (WR)	- 7. 7. F		AIN IGNEOUS AND METAMORPHIC R			- GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RIS S ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO P	
ROCK (CR)		GNEISS, GABBRO, SCH	REFUSAL IF TESTED. ROCK TYPE IN HIST.ETC. RAIN METAMORPHIC AND NON-COAST			S (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CA	LCIUM CARBONATE.
NON-CRYSTAL ROCK (NCR)		SEDIMENTARY ROCK ROCK TYPE INCLUD	THAT WOULD YEILD SPT REFUSAL S PHYLLITE, SLATE, SANDSTONE, ET	IF TESTED. C.	COLLUVIUM OF SLOPE.	- ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY	ON SLOPE OR AT BOTTOM
COASTAL PLO SEDIMENTARY (CP)	Y ROCK	COASTAL PLAIN SEU SPT REFUSAL. ROCH SHELL BEDS.ETC.	DIMENTS CEMENTED INTO ROCK, BUT TYPE INCLUDES LIMESTONE, SAND	MAY NOT YIELD STONE, CEMENTED		VERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.	THE CORE BARREL DIVIDED
		WEATH				ABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCUTS MASSIVE ROCK.	ICTURE OF ADJACENT
FRESH	HAMMER IF CRYSTALLIN	NE.	5 MAY SHOW SLIGHT STAINING. ROCK		<u>dip</u> - The Horizontai	ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INC	LINED FROM THE
(V SLI.)		N SPECIMEN FACE S	SOME JOINTS MAY SHOW THIN CLAY (HINE BRIGHTLY. ROCK RINGS UNDER H			ION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORI. P. MEASURED CLOCKWISE FROM NORTH.	ONTAL TRACE OF THE
SLIGHT (SLI.)			ND DISCOLORATION EXTENDS INTO RO N GRANITOID ROCKS SOME OCCASIONA			FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN ATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.	DISPLACEMENT OF THE
MODERATE			STALLINE ROCKS RING UNDER HAMME COLORATION AND WEATHERING EFFECT			A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL DCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION (
(MOD.)			ULL AND DISCOLORED, SOME SHOW CLA NOWS SIGNIFICANT LOSS OF STRENGT		PARENT MA		
MODERATELY SEVERE	ALL ROCK EXCEPT QUA		STAINED. IN GRANITOID ROCKS.ALL AOLINIZATION. ROCK SHOWS SEVERE L		FORMATION FIELD.	(FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED	AND TRACED IN THE
(MOD. SEV.)		D WITH A GEOLOGIS	'S PICK. ROCK GIVES "CLUNK" SOUND			ACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HA SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNES	
SEVERE (SEV.)	REDUCED IN STRENGTH	TO STRONG SOIL. IN E FRAGMENTS OF ST	STAINED. ROCK FABRIC CLEAR AND N N GRANITOID ROCKS ALL FELDSPARS RONG ROCK USUALLY REMAIN. <u>100 BPF</u>		ITS LATERA LENS - A E MOTTLED (P		ECTIONS.
VERY SEVERE (V SEV.)	BUT MASS IS EFFECTIV REMAINING. SAPROLITE	ELY REDUCED TO SI IS AN EXAMPLE OF	STAINED. ROCK FABRIC ELEMENTS A DIL STATUS, WITH ONLY FRAGMENTS C ROCK WEATHERED TO A DEGREE THA IN. <u>IF TESTED, WOULD YIELD SPT N</u>	DF STRONG ROCK T ONLY MINOR	PERCHED W	NOLENES FOUR HEAN TON HIND LACK OF GOOD DANINAGE. A <u>TER</u> - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER REVENING IMPERVIOUS STRATUM. RESJ SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF I	
COMPLETE		TIONS. QUARTZ MAY	DISCERNIBLE, OR DISCERNIBLE ONLY BE PRESENT AS DIKES OR STRINGER		ROCK SEGM RUN AND E	ITY <u>DESIGNATION (ROD</u>) - A MEASURE OF ROCK QUALITY DESCRI ENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE XPRESSED AS A PERCENTAGE.	TOTAL LENGTH OF CORE
VERY HARD			P PICK. BREAKING OF HAND SPECIMEN	NS REQUIRES	ROCK.	(SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE	
HARD		KNIFE OR PICK ONL	: PICK. Y WITH DIFFICULTY. HARD HAMMER E	BLOWS REQUIRED	RELATIVEL	INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFOR (THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN NG OR SCHISTOSITY OF THE INTRUDED ROCKS.	
MODERATELY		KNIFE OR PICK. GO	JGES OR GROOVES TO 0.25 INCHES D			E - POLISHED AND STRIATED SURFACE THAT RESULTS FROM F	RICTION ALONG A FAULT
HARD MEDIUM	BY MODERATE BLOWS.		T'S PICK. HAND SPECIMENS CAN BE D		STANDARD	PENETRATION TEST (PENETRATION RESISTANCE)(SPT) - NUMBER HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRA	
HARD		SMALL CHIPS TO PE	ICES I INCH MAXIMUM SIZE BY HARD		WITH A 2	NCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL S THAN 0.1 FOOT PER 60 BLOWS.	
SOFT	FROM CHIPS TO SEVERA PIECES CAN BE BROKEN	AL INCHES IN SIZE N BY FINGER PRESSU		NT. SMALL, THIN	TOTAL LEN STRATA RO	RE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL R GTH OF STRATUM AND EXPRESSED AS A PERCENTAGE. CK <u>QUALITY DESIGNATION (SROD)</u> - A MEASURE OF ROCK QUALIT ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GRAFTE T	Y DESCRIBED BY TOTAL
VERY SOFT			VATED READILY WITH POINT OF PICK FINGER PRESSURE. CAN BE SCRATC		THE TOTAL	LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE. S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.	THN 4 INCHES DIVIDED BI
	FRACTURE SPAC		BEDDING			MARK: BL-2 (N: 881069.61; E: 2547534.54)	
<u>TERM</u> VERY WID WIDE	DE MORE TH	<u>PACING</u> HAN 10 FEET) 10 FEET	TERM VERY THICKLY BEDDED THICKLY BEDDED	<u>THICKNESS</u> 4 FEET 1.5 - 4 FEET		ELEVAT	ION: 57.73 FEET
	ELY CLOSE 1 TO 0.16	0 3 FEET TO 1 FOOT AN 0.16 FEET	THINLY BEDDED 0. VERY THINLY BEDDED 0.0 THICKLY LAMINATED 0.0	.16 - 1.5 FEET 03 - 0.16 FEET 08 - 0.03 FEET < 0.008 FEET	<u>notes:</u> Fiad - F	FILLED IN AFTER DRILLING	
		INDUR	ATION				
FOR SEDIMEN		RUBBING WITH F	NG OF MATERIAL BY CEMENTING, H INGER FREES NUMEROUS GRAINS; Y HAMMER DISINTEGRATES SAMPLE				
MODEF	RATELY INDURATED		SEPARATED FROM SAMPLE WITH S' WHEN HIT WITH HAMMER.	TEEL PROBE:			
INDUR	ATED	GRAINS ARE DIF	FICULT TO SEPARATE WITH STEEL REAK WITH HAMMER.	PROBE:			
EXTRE	EMELY INDURATED	SHARP HAMMER	BLOWS REQUIRED TO BREAK SAMPL ACROSS GRAINS.	E;			DATE: 8-15-14
L		SHUFLE BREAKS	HCHUSS UNHINS.				UHIE: 8-10-14



GEOTECHNICAL BORING REPORT BORE LOG

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WBS	42243	3.1.1			Т	IP B-51	06		COUNT	ΥB	ERTIE			GEOLOGI	ST Alexande	r, M. J.	
SITE	DESCR		BRI	DGE	NO. 0	70148 O	N SF	R 1200 (CONNAR	ITSA	ROAD) OVER	WAHTON	I SWAMP		GROUND	WTR (f
BORI	NG NO	. EB1-	A		S	TATION	15-	+22		OFF	SET	8 ft LT		ALIGNME	NT -L-	0 HR.	6.
COLL	AR EL	EV. 58	3.7 ft				EPTH	1 114.9) ft			3 881,0)85	EASTING	2,547,517	24 HR.	FIA
				TE TE		7 CME-75							IETHOD		,- ,-	HAMMER TYPE Au	utomatic
		urnage										TE 07/			WATER DEP		
1	DRIVE	1	1	W CO					PER FOO			SAMP.	— / ·		WATER DEP		
ELEV (ft)	ELEV (ft)	DEPTH (ft)	0.5ft	0.5ft	-	0	25		50	75	100	NO.	MOI G	ELEV. (ft)	SOIL AND ROO	CK DESCRIPTION	DEPTH
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		<u></u>				1								_ 58.7 10		SURFACE AGGREGATE BASE	(
	55 0	±					:	· · · ·		: :				_ 56.9	CO	URSE EMBANKMENT	
55	55.3	<u> </u>	WOH	1	1		_						l w L	- OF	RANGE-BROWN	AND GRAY, SANDY	
		f					.			. :			$ \bigtriangledown F$	\mathbf{F}	SILT	Y CLAY	
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VBS 4224						ry bertie				GEOLOGIST Alexander, M. J.	1
ITE DESC	RIPTION	BRI	DGE I	NO. 07	0148 ON SR 1200 (CONNAF	RITSA ROAD) OVER	WAH	том s	SWAMP	GROUND WTR (ft
BORING NO). EB1	-A		S	TATION 15+22	OFFSET 8	8 ft LT			ALIGNMENT -L-	0 HR. 6.9
OLLAR EL	. EV . 58	3.7 ft		т	DTAL DEPTH 114.9 ft	NORTHING	3 881,0	85		EASTING 2,547,517	24 HR. FIAD
RILL RIG/HA	MMER E	FF./DA	TE TE		CME-75 91% 06/04/2013		DRILL N	NETHO	D Mu	d Rotary HAMM	ER TYPE Automatic
RILLER	Furnage	, J. R.		S	CART DATE 07/02/15	COMP. DA	TE 07/	02/15		SURFACE WATER DEPTH N/	A
	DEPTH	BLC	W CO	UNT	BLOWS PER FOC	т	SAMP.	V /			
(ft) ELEV (ft)	(ft)	0.5ft	0.5ft	0.5ft	0 25 50	75 100	NO.	мо	O G	SOIL AND ROCK DESC	DEPTH (f
21			\lfloor		Match Line		L		I		
	ŧ					· · · · · ·		Sat.		GRAY, FOSSILIFEROUS	AYERS
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00 7	1					· · · · · ·			S	LIGHT GRAY, FINE SAND CLAY WITH THIN CLAYEN	Y TO SILTY
30 -29.7	<u>+ 88.4</u>	10	12	13	25			м		LAYERS (YORKTOWN FORM	
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45 -44.7	+ 103.4	3	5	8	· · · / · · · · · · · · · · · · · · · ·	· · · · ·		М			
	‡				$\begin{vmatrix} \cdot & \cdot \bullet 13. \\ \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot &$	· · · · · ·					
50 -49.7	+ + 108.4				$\begin{vmatrix} \cdot \cdot \cdot \cdot \mathbf{A} \\ \cdot \cdot \cdot \mathbf{A} \end{vmatrix} \cdot \cdot \cdot \cdot \cdot \begin{vmatrix} \cdot \cdot \cdot \cdot \\ \cdot \cdot \cdot \mathbf{A} \end{vmatrix}$	· · · · · ·					
	+ 100.4	8	11	13	24			м			
	‡				$\begin{vmatrix} \cdots & i \\ \cdots & i \end{vmatrix}$ $\begin{vmatrix} \cdots & \cdots & \cdots & \cdots & \cdots & \cdots \\ \cdots & \cdots & i \end{vmatrix}$	· · · · · · · ·					
55 -54.7	+ 113.4	5	7	8				м	N-	·	
	‡		-	-	<u> ∳15</u>		_			-56.2 Boring Terminated at Elevat COASTAL PLAIN (SILT	114. ion -56.2 ft IN

GEOTECHNICAL BORING REPORT BORE LOG

										_				UG			1	
	42243						3-5106						RTIE				GEOLOGIST Alexander, M.	J
SITE	DESCR		BRI	DGE N	10.0	7014	8 ON 8	SR 12	200 (CON	VARI	TSA I	ROAD) OVER	WAH	ГОМ	SWAMP	
BORII	NG NO	. EB2-	В		s	TAT	I ON 1	5+94	ł			OFF	SET 8	8 ft RT			ALIGNMENT -L-	0 HR. 7
COLL	AR ELI	EV. 58	8.5 ft		Т	ота	L DEP	тн	114.9	9 ft		NOR	THING	3 881,1	16		EASTING 2,547,584	24 HR. FIA
DRILL	RIG/HA	MMER E	FF./DA	TE TE	R6847	7 CME	E-75 91	% 06/	/04/20	13				DRILL N	NETHO	D Mu	ud Rotary HAMI	 MER TYPE Automatio
DRILL	ER T	urnage	J. R.		s	TAR	T DATI	E 0	7/01/	15		CON	IP. DA	TE 07/				I/A
ELEV	DRIVE	DEPTH		W COL		Π				PER F		-		SAMP.	▼/	L		
(ft)	ELEV (ft)	(ft)	0.5ft	<u> </u>	0.5ft	0		25		50		75	100	NO.	моі	O G	SOIL AND ROCK DES ELEV. (ft)	CRIPTION DEPTH
60		l L															GROUND SURF	ACE
	-					††:		•	•••	-		-				-	10" ASPHALT, 12" AGGF	
55	55.1	3.4] -		-		-							ROADWAY EMBAI	
		F	2	2	1	•	3	-				-			w		ORANGE-BROWN AND (SILTY CLA)	
		ŧ							· · ·		· · ·					LN		
50	50.1	8.4	WOH	1	1	┤╠		·		<u> </u>		· ·						
	•	t			I	• 2	· · ·	1:	· · ·						Sat.		BLACK, SILTY FIN	
		t				į·			 	·		-						
45	45.1	13.4	1	1	3	┨┠		+-		+-		+			Sat.		-	
	-	Ŧ				•	••••	-		.					- Sul.		42.5	
40	40.1	18.4						1:	· · ·	.							COASTAL PL	
40	40.1	- 10.4	2	2	2	┨┟╅	4	1.		1.		1.			Sat.		COARSE SAND WITH	LITTLE SILT
		t					· · ·	1:	· · ·									WATION)
35	35.1	23.4				i		.		.								
		F	2	3	3		6 • •								Sat.		-	
	•	ŧ				:	1: : :	1	· · ·		· · ·							
30	30.1	28.4		_		1Ŀ	1	· ·		<u> </u>	 	· · ·					-	
		ł	2	5	5		•10 ·						•••		Sat.			
		Ŧ				:	į. : :	:		:								
25	25.1	33.4	2	3	4		· · ·	<u> </u> :	· · ·	<u> </u>	· · ·				0		, _	
		t		Ŭ	7		P 7 · · ·	1	· · · · · ·		· · · · · ·		· · ·		Sat.		22.5	3
		t				:	1	:	· · ·							0 0 0 0 0 0 0 0 0 0 0 0	DARK GRAY, FINE SAND	WITH TRACE
20	20.1	38.4	2	5	5	$ \vdash $	10	+		<u> </u>		+			Sat.	0 0 0 0 0 0 0 0 0 0 0 0	· SILT - (YORKTOWN FOR	MATION)
		Ŧ				:	•10 ·	.								÷	· ·	
15	15.1	- 				:	1::		· · · · · ·	:	· · ·							Y SAND
15		43.4	2	5	6	11	 ●11 ·	1:		+:					Sat.		- (YORKTOWN FOR	MATION)
		t				:	1 : :	:	· · ·		· · ·						DARK GRAY, FINE SAND	
10	10.1	48.4				.	¦· · ·	.		.						0 0 0 0 0 0 0 0 0 0 0 0	SILT	
		Ŧ	3	2	5		7			↓					Sat.		- (YORKTOWN FOR	VIATION)
	•	Ŧ				:	$\mathbf{\hat{\lambda}}$		· · · · · ·		· · · · · ·							
5	5.1	53.4	3	8	7	- _:	·/··	:_	· · ·	·	••••	· · ·					-	
		t			'	:	• • 15	.	· · ·		 				Sat.			
		t				.	.	•	 	·		.				0000 0000		
0	0.1	58.4	3	5	6	┨┝╴		+-		<u> </u>		+			Sat.		-	
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-5	40	‡				:	Ξ Ϊ ΞΞ		· · · · · ·		· · ·							
-5	-4.9	63.4	6	7	8	11	· •	+ :-		+:					Sat.		-	
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-10	-9.9	T 68.4] :	1::	-										
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-15	-14.9	73.4				ļĿ	• \ •	Ŀ		ŀ	· · ·					****	-	
		ŧ	6	10	8	•	· .••1	8 -		·					Sat.			
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-20	-19.9	78.4	6		11	ΙĽ	· · [·	1:	· · ·	1:	· · ·						<u>19.5</u>	7

GEOTECHNICAL BORING REPORT BORE LOG

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	42243						B-5106			1			RTIE					IST Alexa	nder,	, M. J.			
SITE	DESCR	RIPTION	BRI	DGE	NO. 07	'014	8 ON 8	SR 12	200 (C	CONN	IARI	rsa f	ROAD) OVER	WAH	ГОМ	SWAMP				GROUN	D WTR	(ft)
BORI	NG NO	. EB2-	В		SI	ΓΑΤΙ	ION 1	15+94	ļ			OFF	SET	8 ft RT			ALIGNME	NT -L-			0 HR.		7.5
COLL	AR EL	EV. 58	8.5 ft		т	ота	L DEP	тн	114.9	ft		NOR	THING	G 881,1	16		EASTING	2,547,58	4		24 HR.	FI	AD
DRILL	RIG/HA	MMER E	FF./DA	TE TE	R6847	CME	E-75 91	% 06/	04/201	3				DRILL	NETHO	D Mu	id Rotary			НАММ	ER TYPE	Automat	tic
DRIL	LER T	urnage,	, J. R.		ST	TAR	T DAT	E 07	7/01/1	5		COM	P. DA	TE 07/	01/15		SURFACE	WATER I	DEPT	H N/	A		
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLC 0.5ft	OW COI 0.5ft		0		BL 25	OWS I	PER F 50		75	100	SAMP. NO.	моі	L O G	ELEV. (ft)	SOIL AND	ROC	K DESC	CRIPTION	DEPT	⁻ H (ft)
21	-24.9	- - -	6	10	8		• • • • • • • • • • • • • • • • • • •	8 - - - 8 - - - - - - - - - - - - - - -	Matc	h Ling	e				Sat.		- <u>-28.5 </u>	- LIGHT ORKTOWN IGHT GRAY LAY WITH T		SANE LAYEN	N) (continue DY TO SILT Y FINE SAM	Y	<u>87.0</u>
-35 -40	-34.9	Ŧ	12	19	19			22	• • • • • • • • • • • • • • • • • • •						м		-	(YORKT	OWN	FORM	ATION)		
-45		103.4	8	10	15	- - - - - - -		•25	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·			м		-						
-55		113.4	7	11	17				· · · ·	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		M		- - <u>-56.4</u>	oring Termina	ated at	Eleva	ion -56.4 fl		114.9
		+ + + + + + + + + + + + + + + + + + + +															-	ČOASTAL	, PLAI	N (SILT	Υ CLAY)		