

REFERENCE: U-5797

PROJECT: 44367

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

STRUCTURE  
SUBSURFACE INVESTIGATION

COUNTY ROBESON  
PROJECT DESCRIPTION FAYETTEVILLE ROAD (SR 1997)  
FROM EAST OF 22nd STREET TO FARRINGDOM  
STREET  
SITE DESCRIPTION CULVERT ON -Y2- STA. 20+80  
OVER MEADOW BRANCH

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5797	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 SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT, AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT 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 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 SATISFY 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:
- 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 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.

PERSONNEL

BRIDGER DRILLING  
WEIS, J.M.

INVESTIGATED BY WEIS, J.M.

DRAWN BY CROCKETT, S.C.

CHECKED BY HAMM, J.R.

SUBMITTED BY FALCON

DATE JUNE 2023



SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



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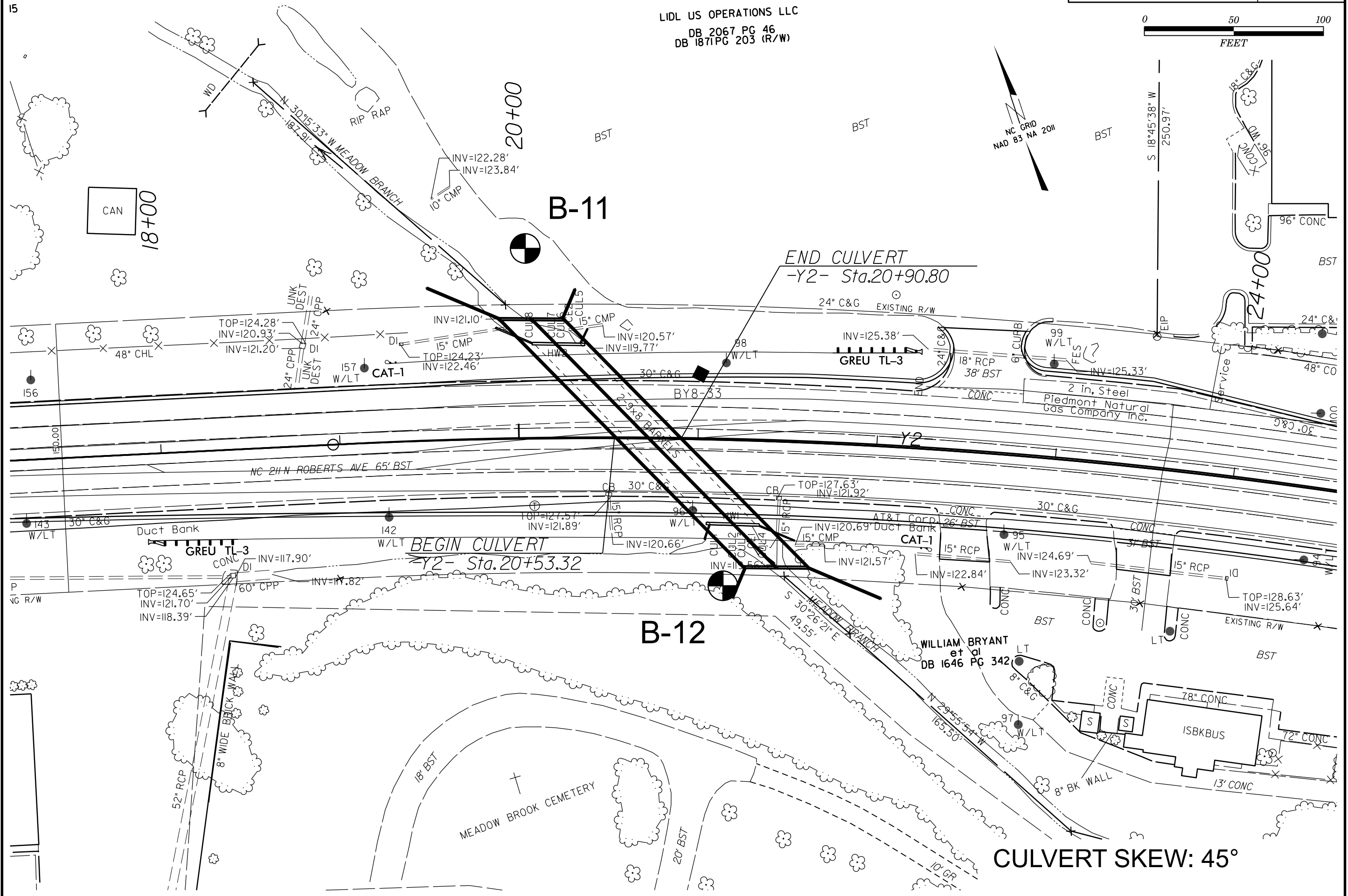
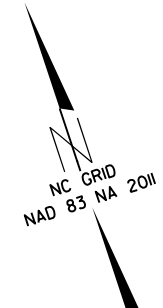
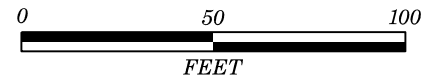
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DB 2067 PG 46  
DB 1871PG 203 (R/W)

PROJECT REFERENCE NO.

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SHEET NO.

3



CULVERT SKEW: 45°

8/23/99

0510

PROJ. REFERENCE NO.  
U-5797

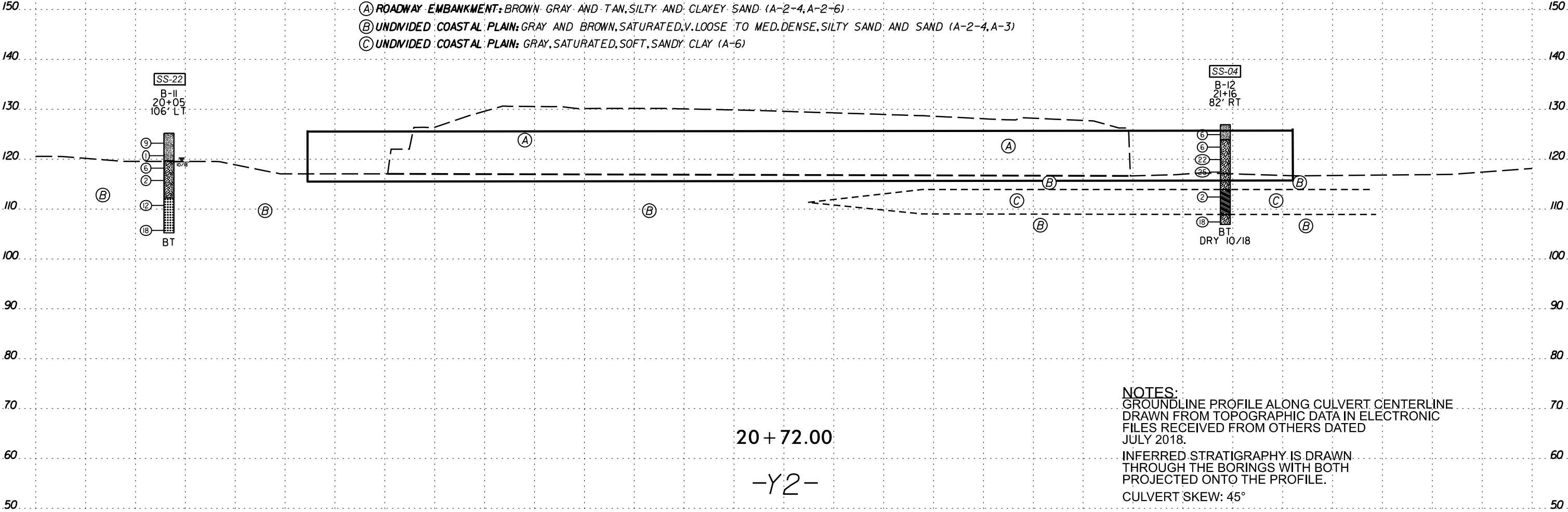
SHEET NO.  
4

02040

FEET

SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-22	106 FT LT	20+05	1.0'-2.5'	A-4	19	9	7	51	11	31	100	98	49	13	-
SS-04	82 FT RT	21+16	1.0'-2.5'	A-4	19	8	10	55	12	23	100	98	40	12	-

- (A) ROADWAY EMBANKMENT: BROWN GRAY AND TAN, SILTY AND CLAYEY SAND (A-2-4, A-2-6)
- (B) UNDIVIDED COASTAL PLAIN: GRAY AND BROWN, SATURATED, V. LOOSE TO MED. DENSE, SILTY SAND AND SAND (A-2-4, A-3)
- (C) UNDIVIDED COASTAL PLAIN: GRAY, SATURATED, SOFT, SANDY CLAY (A-6)



\$DATE\$

GEOTECHNICAL BORING REPORT  
BORE LOG

WBS 44367.1.1				TIP U-5797				COUNTY ROBESON				GEOLOGIST Weis, J.					
SITE DESCRIPTION CULVERT ON -Y2- (N. ROBERTS AVE.) OVER MEADOW BRANCH AT -Y2- STA. 20+80												GROUND WTR (ft)					
BORING NO. B-11				STATION 20+05				OFFSET 106 ft LT				ALIGNMENT -Y2-				0 HR. N/A	
COLLAR ELEV. 125.2 ft				TOTAL DEPTH 20.0 ft				NORTHING 323,931				EASTING 1,999,107				24 HR. 5.8	
DRILL RIG/HAMMER EFF./DATE BRI3895 CME-55 96% 04/19/2018								DRILL METHOD Mud Rotary				HAMMER TYPE Automatic					
DRILLER Eister, G.				START DATE 10/30/18				COMP. DATE 10/30/18				SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)		
130																	
125														125.2	GROUND SURFACE 0.0		
120	124.2	1.0									SS-22	13%		UNDIVIDED COASTAL PLAIN (0.4' TOPSOIL)			
	121.7	3.5	WOH	WOH	1									Sat.	GRAY & BROWN, SANDY SILT (A-4)		
	119.2	6.0												Sat.	GRAY, SILTY SAND (A-2-4) 5.5		
115	116.7	8.5											Sat.				
	111.7	13.5											Sat.	112.2 GRAY, SAND (A-3) 13.0			
110	106.7	18.5											Sat.	105.2 Boring Terminated at Elevation 105.2 ft IN UNDIVIDED COASTAL PLAIN (A-3) 20.0			

WBS 44367.1.1			TIP U-5797			COUNTY ROBESON			GEOLOGIST Weis, J.					
SITE DESCRIPTION CULVERT ON -Y2- (N. ROBERTS AVE.) OVER MEADOW BRANCH AT -Y2- STA. 20+80									GROUND WTR (ft)					
BORING NO. B-12			STATION 21+16			OFFSET 82 ft RT			ALIGNMENT -Y2-			0 HR.	N/A	
COLLAR ELEV. 126.9 ft			TOTAL DEPTH 20.0 ft			NORTHING 323,718			EASTING 1,999,153			24 HR.	Dry	
DRILL RIG/HAMMER EFF./DATE BRI3895 CME-55 96% 04/19/2018						DRILL METHOD Mud Rotary			HAMMER TYPE Automatic					
DRILLER Eister, G.			START DATE 10/30/18			COMP. DATE 10/30/18			SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
130														
125	125.9	1.0	2	3	3						SS-04	12%		
	123.4	3.5	1	2	4						Sat.			
120	120.9	6.0	6	10	12						Sat.			
	118.4	8.5	9	14	11						Sat.			
115														
	113.4	13.5	WOH	1	1						Sat.			
110														
	108.4	18.5	4	8	10						Sat.			

NCDOT BORE DOUBLE U5797GINT.GPJ NC\_DOT.GDT 6/13/23