

PROJECT: 44367

REFERENCE: U-5797

CONTENTS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND (SOIL & ROCK)
3	SITE PLAN
4	PROFILE
5	BORE LOGS

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 -L- STA. 43+26
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.

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 - 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.

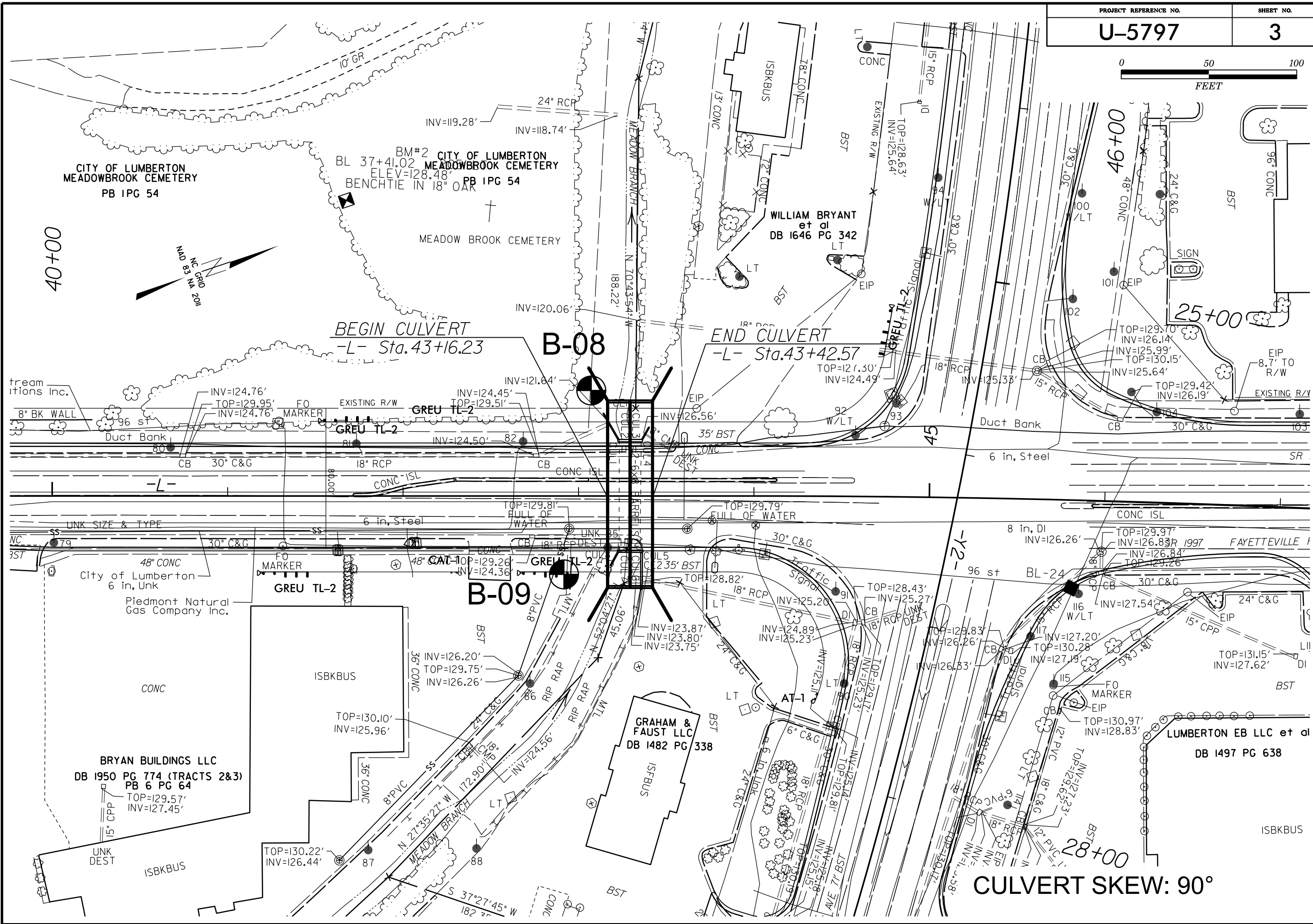
SUBMITTED BY FALCON

DATE JUNE 2023



SIGNATURE _____ DATE _____

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



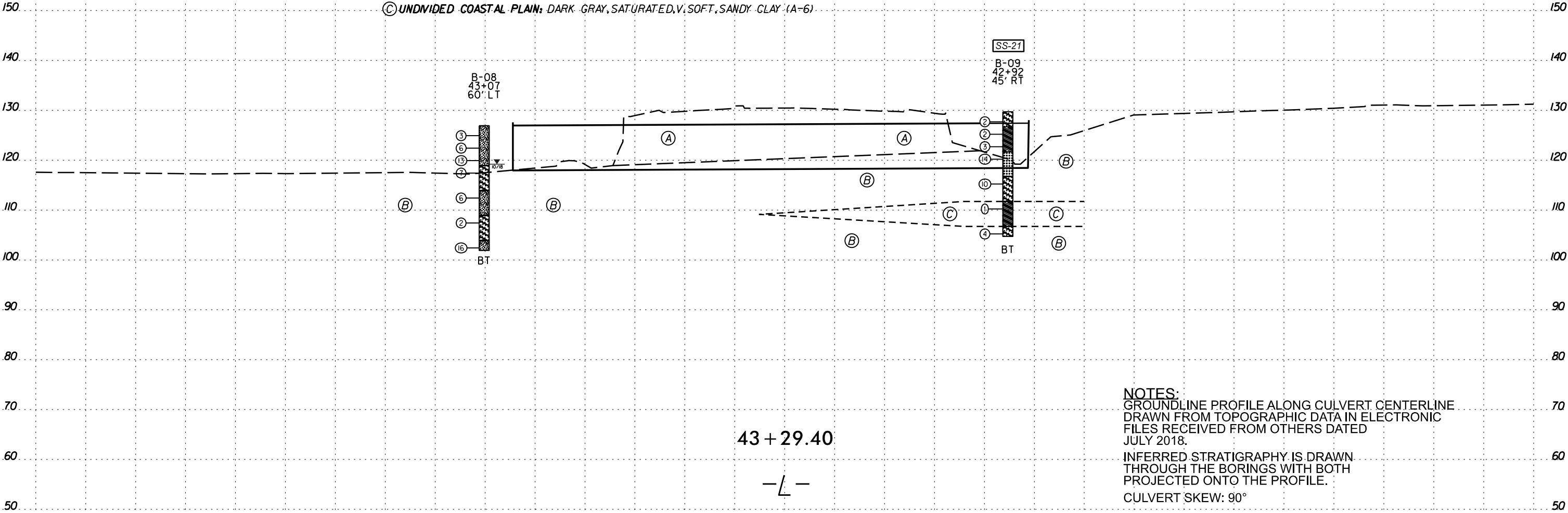
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SOIL TEST RESULTS															
SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-21	45 FT RT	42+92	3.5'-5.0'	A-6	25	12	23	36	6	35	98	85	43	30	-

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



GEOTECHNICAL BORING REPORT
BORE LOG

WBS 44367.1.1			TIP U-5797			COUNTY ROBESON			GEOLOGIST Weis, J.						
SITE DESCRIPTION CULVERT ON -L- (FAYETTEVILLE ROAD) OVER MEADOW BRANCH AT -L- STA. 43+26									GROUND WTR (ft)						
BORING NO. B-08			STATION 43+07			OFFSET 60 ft LT			ALIGNMENT -L-			0 HR.	N/A		
COLLAR ELEV. 126.9 ft			TOTAL DEPTH 25.0 ft			NORTHING 323,403			EASTING 1,999,517			24 HR.	7.7		
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	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
130															
125	125.9	1.0	2	2	1	3								126.9	0.0
	123.4	3.5	1	2	4	6									
120	120.9	6.0	5	7	6	13									
	118.4	8.5	2	4	3	7								118.9	8.0
115															
	113.4	13.5	3	3	3	6								113.9	13.0
110															
	108.4	18.5	1	1	1	2								108.9	18.0
105															
	103.4	23.5	4	8	8	16								103.9	23.0
														101.9	25.0
														Boring Terminated at Elevation 101.9 ft IN UNDIVIDED COASTAL PLAIN (A-2-4)	

WBS 44367.1.1			TIP U-5797			COUNTY ROBESON			GEOLOGIST Weis, J.					
SITE DESCRIPTION CULVERT ON -L- (FAYETTEVILLE ROAD) OVER MEADOW BRANCH AT -L- STA. 43+26									GROUND WTR (ft)					
BORING NO. B-09			STATION 42+92			OFFSET 45 ft RT			ALIGNMENT -L-			0 HR.	N/A	
COLLAR ELEV. 129.7 ft			TOTAL DEPTH 25.0 ft			NORTHING 323,355			EASTING 1,999,611			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 10/29/18			COMP. DATE 10/29/18			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	128.7	1.0	1	1	1									129.7 GROUND SURFACE 0.0
	126.2	3.5	1	1	1									126.7 UNDIVIDED COASTAL PLAIN (0.3' ASPHALT) 3.0
120	123.7	6.0	1	1	2									BROWN, CLAYEY SAND (A-2-6) GRAY, SANDY CLAY (A-6) 6.0
	121.2	8.5	3	5	9									121.7 TAN & GRAY, SAND (A-3) 8.0
115	116.2	13.5	5	6	4									116.7 DARK GRAY, CLAYEY SAND (A-2-6) 13.0
	111.2	18.5	WOH	WOH	1									111.7 DARK GRAY, SANDY CLAY (A-6) 18.0
110														106.7 DARK GRAY, CLAYEY SAND (A-2-6) 23.0
105	106.2	23.5	1	1	3									104.7 Boring Terminated at Elevation 104.7 ft IN UNDIVIDED COASTAL PLAIN (A-2-6) 25.0

NCDOT BORE DOUBLE U5797GINT.GPJ NC_DOT.GDT 6/13/23

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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 -L- STA. 68+72
OVER POLE CAT BRANCH

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5797	1	9

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PERSONNEL

BRIDGER DRILLING

ROSS, S. I.

INVESTIGATED BY ROSS, S.I.

DRAWN BY CROCKETT, S.C.

CHECKED BY HAMM, J.R.

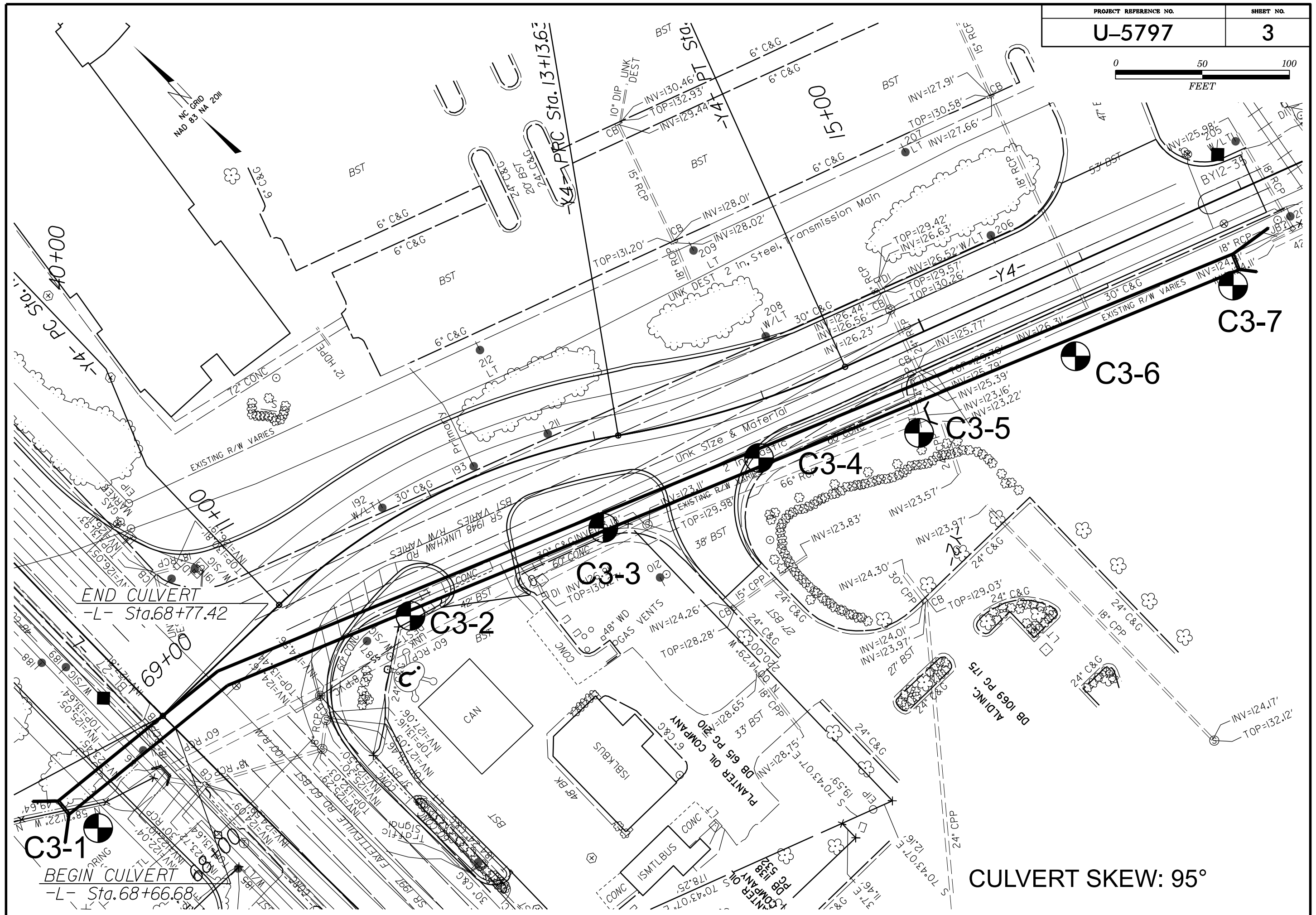
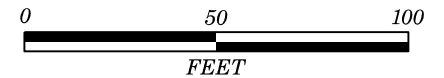
SUBMITTED BY FALCON

DATE JUNE 2023



SIGNATUREDATE

DOCUMENT NOT CONSIDERED FINAL
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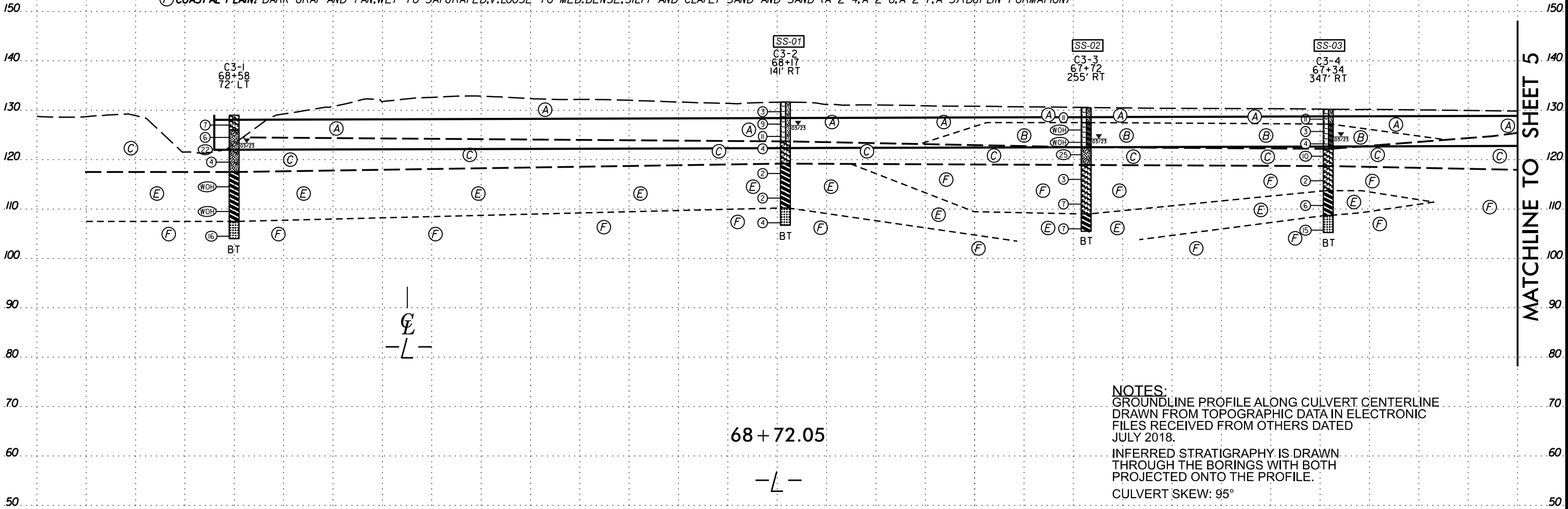


VE = 2V : 1H

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL	AASHTO CLASS.	LL.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
							C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-01	141 FT RT	68+17	18.5'-20.0'	-	-	-	-	-	-	-	-	-	-	46	-
SS-02	255 FT RT	67+72	18.5'-20.0'	-	-	-	-	-	-	-	-	-	-	38	-
SS-03	347 FT RT	67+34	13.5'-15.0'	-	-	-	-	-	-	-	-	-	-	31	-

- (A) ROADWAY EMBANKMENT: TAN AND GRAY, MOIST TO WET, V. LOOSE TO MED. DENSE, SILTY AND CLAYEY SAND (A-2-4, A-2-6)
(B) ROADWAY EMBANKMENT: TAN AND GRAY, WET, V. SOFT TO SOFT, SANDY CLAY (A-6)
(C) UNDIVIDED COASTAL PLAIN: TAN AND GRAY, WET, V. LOOSE TO MED. DENSE, SILTY AND CLAYEY SAND (A-2-4, A-2-6)
(D) UNDIVIDED COASTAL PLAIN: GRAY AND TAN, WET, SOFT, SANDY CLAY (A-6)
(E) COASTAL PLAIN: DARK GRAY, WET, V. SOFT TO MED. STIFF, SANDY SILTY CLAY (A-7) (DUPLIN FORMATION)
(F) COASTAL PLAIN: DARK GRAY AND TAN, WET TO SATURATED, V. LOOSE TO MED. DENSE, SILTY AND CLAYEY SAND AND SAND (A-2-4, A-2-6, A-2-7, A-3) (DUPLIN FORMATION)



NOTES:
GROUNDLINE PROFILE ALONG CULVERT CENTERLINE
DRAWN FROM TOPOGRAPHIC DATA IN ELECTRONIC
FILES RECEIVED FROM OTHERS DATED
JULY 2018.
INFERRED STRATIGRAPHY IS DRAWN
THROUGH THE BORINGS WITH BOTH
PROJECTED ONTO THE PROFILE.
CULVERT SKEW: 95°

\$DATE\$

8/23/99

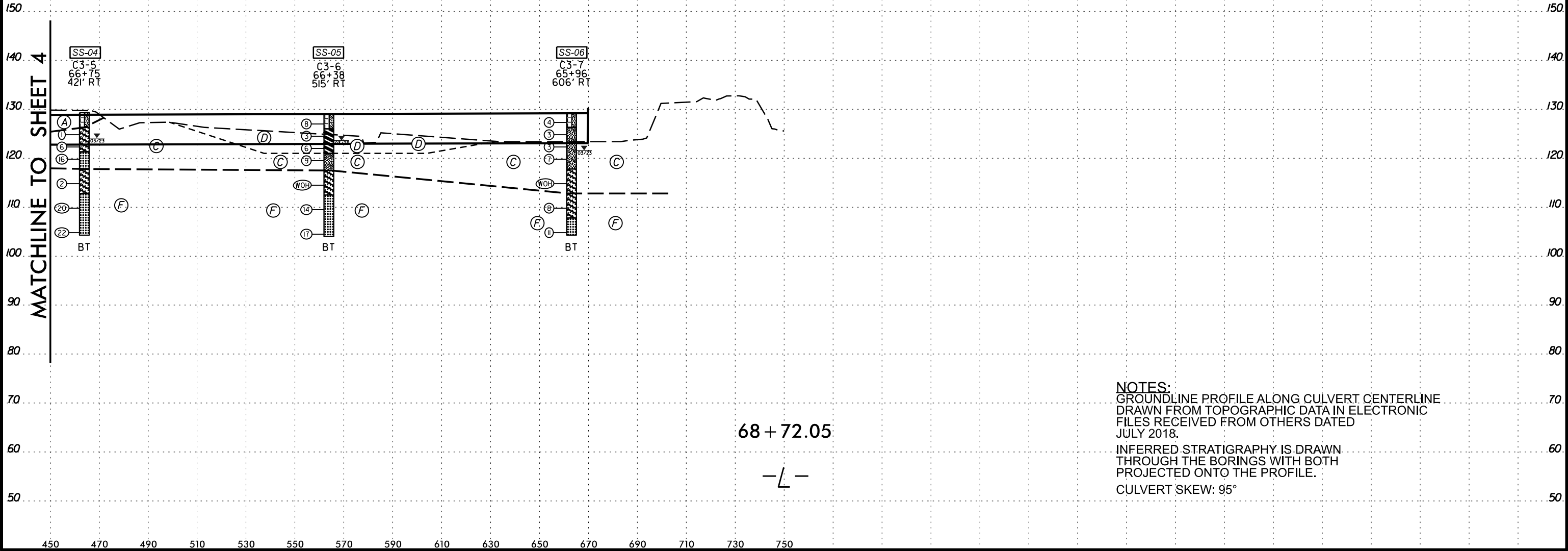


VE = 2V : 1H

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-04	421 FT RT	66+75	3.5'-5.0'	-	-	-	-	-	-	-	-	-	-	21	1.3
SS-05	515 FT RT	66+38	13.5'-15.0'	-	-	-	-	-	-	-	-	-	-	34	-
SS-06	606 FT RT	65+96	6.0'-7.5'	-	-	-	-	-	-	-	-	-	-	17	1.6

- (A) ROADWAY EMBANKMENT; TAN AND GRAY, MOIST TO WET, V. LOOSE TO MED. DENSE, SILTY AND CLAYEY SAND (A-2-4, A-2-6)
(C) UNDIVIDED COASTAL PLAIN; TAN AND GRAY, WET, V. LOOSE TO MED. DENSE, SILTY AND CLAYEY SAND (A-2-4, A-2-6)
(D) UNDIVIDED COASTAL PLAIN; GRAY AND TAN, WET, SOFT, SANDY CLAY (A-6)
(E) COASTAL PLAIN; DARK GRAY, WET, V. SOFT TO MED. STIFF, SANDY SILTY CLAY (A-7) (DUPLIN FORMATION)
(F) COASTAL PLAIN; DARK GRAY AND TAN, WET TO SATURATED, V. LOOSE TO MED. DENSE, SILTY AND CLAYEY SAND AND SAND (A-2-4, A-2-6, A-2-7, A-3) (DUPLIN FORMATION)



NOTES:
GROUNDLINE PROFILE ALONG CULVERT CENTERLINE
DRAWN FROM TOPOGRAPHIC DATA IN ELECTRONIC
FILES RECEIVED FROM OTHERS DATED
JULY 2018.
INFERRED STRATIGRAPHY IS DRAWN
THROUGH THE BORINGS WITH BOTH
PROJECTED ONTO THE PROFILE.
CULVERT SKEW: 95°

NC DOT BORE DOUBLE G22082.GPJ NC_DOT.GDT 6/13/23

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NC DOT BORE DOUBLE G22082.GPJ NC_DOT.GDT 6/13/23

WBS 44367			TIP U-5797			COUNTY ROBESON			GEOLOGIST Ross, S.					
SITE DESCRIPTION CULVERT ON -L- (FAYETTEVILLE ROAD) OVER POLE CAT BRANCH AT -L- STA. 68+72									GROUND WTR (ft)					
BORING NO. C3-6			STATION 66+38			OFFSET 515 ft RT			ALIGNMENT -L-			0 HR. N/A		
COLLAR ELEV. 129.0 ft			TOTAL DEPTH 25.0 ft			NORTHING 325,671			EASTING 2,000,492			24 HR. 5.4		
DRILL RIG/HAMMER EFF./DATE BRI5184 CME-45C 87% 03/30/2022						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic					
DRILLER Radford, J.			START DATE 03/09/23			COMP. DATE 03/09/23			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														
	128.0	1.0	4	4	4									129.0 GROUND SURFACE 0.0
125	125.5	3.5	WOH	1	2									ROADWAY EMBANKMENT 3.0
	123.0	6.0	1	3	3									UNDIVIDED COASTAL PLAIN
120	120.5	8.5	4	5	4									MOTTLED, GRAYISH-TAN AND ORANGE, FINE SANDY SILTY CLAY (A-7)
														121.0 LIGHT GRAYISH TAN, SILTY SAND 8.0
														(A-2-4)
115	115.5	13.5	WOH	WOH	WOH									117.5 COASTAL PLAIN 11.5
											SS-05	34%		DARK GRAY, FINE, SANDY CLAY (A-2-7) (DUPLIN FORMATION)
110	110.5	18.5	6	7	7									112.5 16.5
														DARK GRAY, FINE TO MEDIUM SAND (A-3) WITH TRACE SILT (DUPLIN FORMATION)
105	105.5	23.5	6	7	10									104.0 25.0
														Boring Terminated at Elevation 104.0 ft CP: SAND

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 44367			TIP U-5797			COUNTY ROBESON			GEOLOGIST Ross, S.						
SITE DESCRIPTION CULVERT ON -L- (FAYETTEVILLE ROAD) OVER POLE CAT BRANCH AT -L- STA. 68+72											GROUND WTR (ft)				
BORING NO. C3-7			STATION 65+96			OFFSET 606 ft RT			ALIGNMENT -L-		0 HR.	N/A			
COLLAR ELEV. 129.3 ft			TOTAL DEPTH 25.0 ft			NORTHING 325,638			EASTING 2,000,585		24 HR.	7.7			
DRILL RIG/HAMMER EFF./DATE BRI5184 CME-45C 87% 03/30/2022							DRILL METHOD H.S. Augers				HAMMER TYPE Automatic				
DRILLER Radford, J.			START DATE 03/08/23			COMP. DATE 03/08/23			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	L O G	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)
130															
125	128.3	1.0	2	2	2							M		129.3	0.0
	125.8	3.5	2	1	2							W		126.3	3.0
120	123.3	6.0	1	1	2						SS-06	17%		ROADWAY EMBANKMENT	
	120.8	8.5	2	3	4							W		GRAYISH-TAN SILTY SAND (A-2-4) WITH TRACE ORGANICS	
115														UNDIVIDED COASTAL PLAIN	
	115.8	13.5	WOH	WOH	WOH							Sat.		GRAYISH TAN AND BROWN, SILTY FINE SAND (A-2-4)	
110														LIGHT TAN, CLAYEY SAND (A-2-6)	
	110.8	18.5	2	3	5							Sat.		117.8	11.5
105														COASTAL PLAIN	
	105.8	23.5	2	4	7							Sat.		DARK GRAY, CLAYEY FINE SAND (A-2-7) (DUPLIN FORMATION)	
												W		112.8	16.5
														DARK GRAY, FINE TO MEDIUM SAND (A-3) (DUPLIN FORMATION)	
														107.8	21.5
														104.3	25.0
														Boring Terminated at Elevation 104.3 ft CP: SAND	

NCDOT BORE DOUBLE G22082.GPJ NC_DOT.GDT 6/13/23

PROJECT: 44367

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SHEET NO.	DESCRIPTION
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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



SIGNATUREDATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**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 ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE, <i>VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6</i>										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.										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. 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 REPRESENTED BY A ZONE OF WEATHERED ROCK. ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:										ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER. AQUIFER - A WATER BEARING FORMATION OR STRATA. 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 A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC. 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 GROUND SURFACE. CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE. COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE. 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. DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL. DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH. FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE. FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES. 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 FIELD. JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED. 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. MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN 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. RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK. ROCK QUALITY DESIGNATION (RQDD) - 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 EXPRESSED AS A PERCENTAGE. SAPROLITE (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 RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS. SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE. STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS IN OR BPF) OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS 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. 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.									
SOIL LEGEND AND AASHTO CLASSIFICATION										ANGULARITY OF GRAINS										ROCK DESCRIPTION										TERMS AND DEFINITIONS									
GENERAL CLASS.										THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.										NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.										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.									
GROUP CLASS.										MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.										CRYSTALLINE ROCK (CR)										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 GROUND SURFACE.									
SYMBOL										COMPRESSIBILITY										NON-CRYSTALLINE ROCK (NCR)										CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.									
% PASSING										PERCENTAGE OF MATERIAL										COASTAL PLAIN SEDIMENTARY ROCK (CP)										COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.									
*10										ORGANIC MATERIAL										WEATHERING										DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.									
*40										TRACE OF ORGANIC MATTER										FRESH										DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.									
*200										LITTLE ORGANIC MATTER										VERY SLIGHT (V SL.)										DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.									
MATERIAL PASSING #40 LL										MODERATELY ORGANIC										SLIGHT (SL.)										FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.									
GROUP INDEX										HIGHLY ORGANIC										MODERATE (MOD.)										FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.									
USUAL TYPES OF MAJOR MATERIALS										SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER										SEVERE (SEV.)										FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.									
GEN. RATING AS SUBGRADE										EXCELLENT TO GOOD										COMPLETE										FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.									
PI OF A-7-5 SUBGROUP IS ≤ LL - 30 ; PI OF A-7-6 SUBGROUP IS ≥ LL - 30										FAIR TO POOR										VERY SEVERE (V SEV.)										FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.									
POOR										UNSATURATED										SEVERE (SEV.)										JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										ROCK QUALITY DESIGNATION (RQDD) - 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 EXPRESSED AS A PERCENTAGE.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										SILL - 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.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS IN OR BPF) OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.									
UNSATURATED										UNSATURATED										SEVERE (SEV.)										STRATA ROCK QUALITY DESIGNATION (SR									

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TION DEPT)
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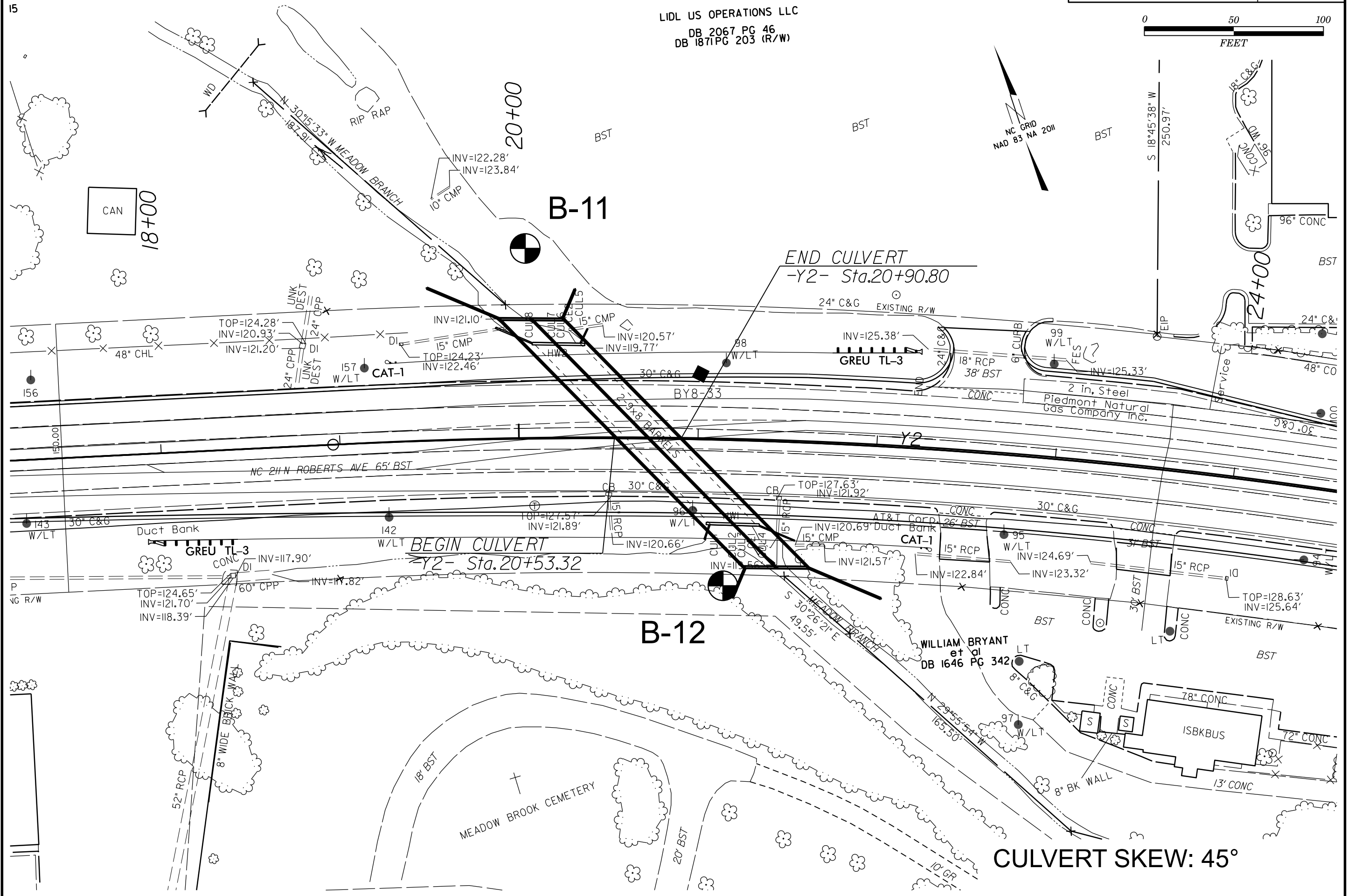
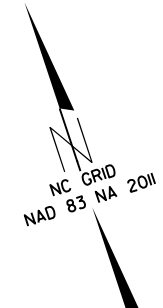
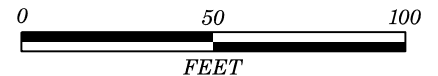
LIDL US OPERATIONS LLC
DB 2067 PG 46
DB 1871 PG 203 (R/W)

PROJECT REFERENCE NO.

U-5797

SHEET NO.

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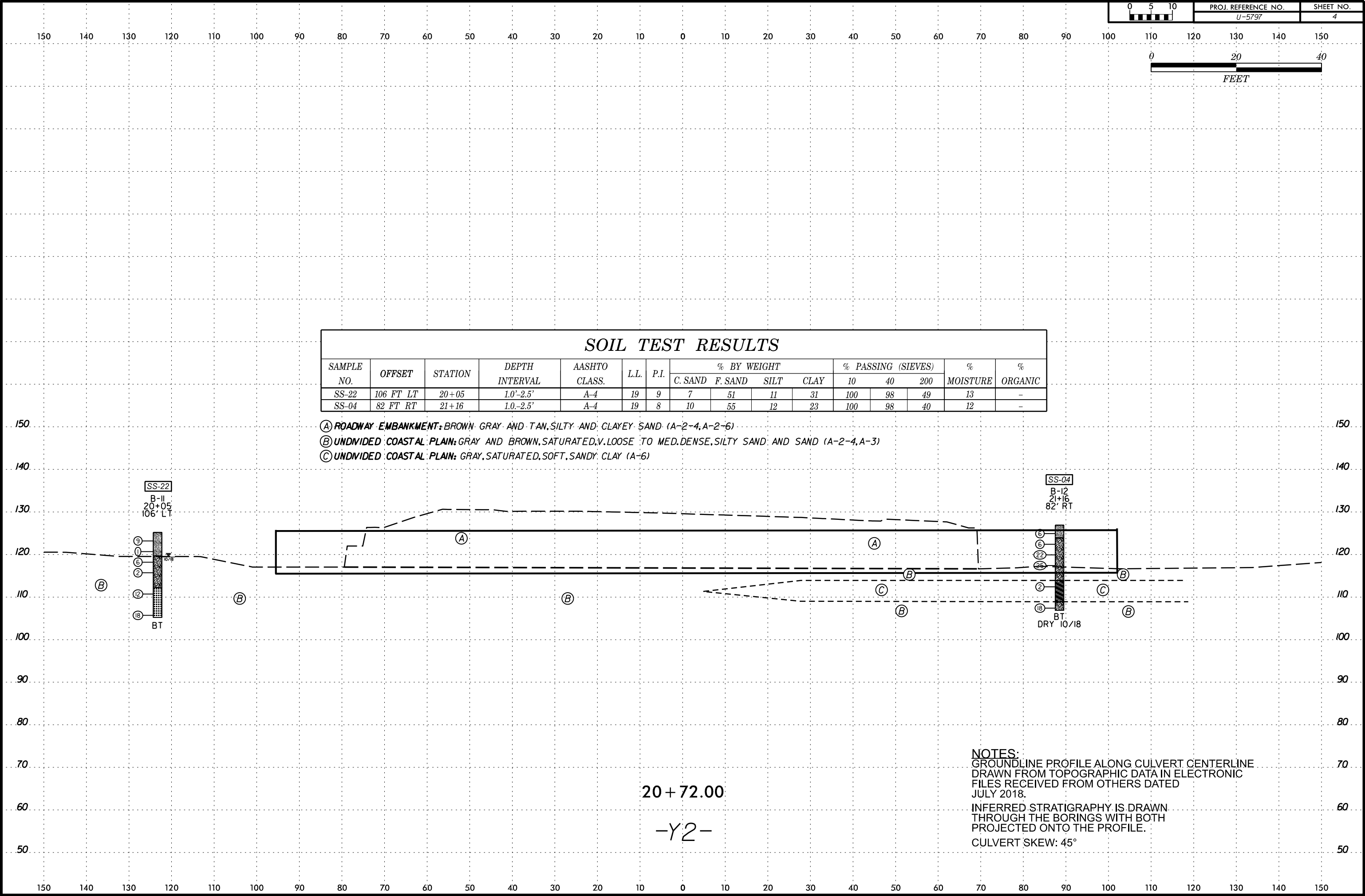
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DATE: \$

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																	
120	124.2	1.0									SS-22	13%		GROUND SURFACE 0.0			
	121.7	3.5	WOH	WOH	1									UNDIVIDED COASTAL PLAIN (0.4' TOPSOIL)			
	119.2	6.0												GRAY & BROWN, SANDY SILT (A-4)			
115	119.2	6.0												5.5			
	116.7	8.5															
110																	
	111.7	13.5												13.0			
	106.7	18.5												20.0			
														Boring Terminated at Elevation 105.2 ft IN UNDIVIDED COASTAL PLAIN (A-3)			

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												126.9 GROUND SURFACE 0.0			
														UNDIVIDED COASTAL PLAIN (0.3' TOPSOIL)			
120	123.4	3.5									SS-04	12%		123.9 3.0			
												Sat.		BROWN, SANDY SILT (A-4)			
	120.9	6.0										Sat.		BROWN, SILTY SAND (A-2-4)			
115	118.4	8.5										Sat.					
												Sat.					
	113.4	13.5										Sat.		113.9 13.0			
110												Sat.		GRAY, SANDY CLAY (A-6)			
	108.4	18.5										Sat.		108.9 18.0			
												Sat.		106.9 20.0			
														Boring Terminated at Elevation 106.9 ft IN UNDIVIDED COASTAL PLAIN (A-2-4)			