

PROJECT: 39026

REFERENCE: U-3609B

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

**STRUCTURE
SUBSURFACE INVESTIGATION**

COUNTY WAYNE

PROJECT DESCRIPTION US 13 (BERKELEY BLVD) FROM
SR 1003 (NEW HOPE RD) TO NORTH OF SR 1705
(HOOD SWAMP RD)

SITE DESCRIPTION CULVERT NO. E2060 ON -L- (US-13)
OVER MILLS CREEK AT STA. 55+17

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3609B	1	8

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 PERFORM INDEPENDENT SUBSURFACE INVESTIGATIONS AND MAKE INTERPRETATIONS AS NECESSARY TO CONFIRM CONDITIONS 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.

PERSONNEL

D.N. ARGENBRIGHT

S.N. ZIMARINO

T.W. MILLER

C.M. WALKER

J.M. EDMONDSON

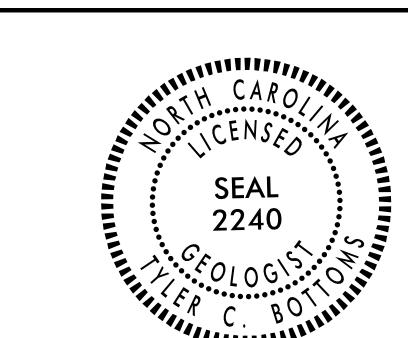
INVESTIGATED BY T.C. BOTTOMS

DRAWN BY T.W. MILLER

CHECKED BY D.N. ARGENBRIGHT

SUBMITTED BY D.N. ARGENBRIGHT

DATE NOVEMBER 2023



DocuSigned by:

Tyler Bottoms

12/07/2023

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SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

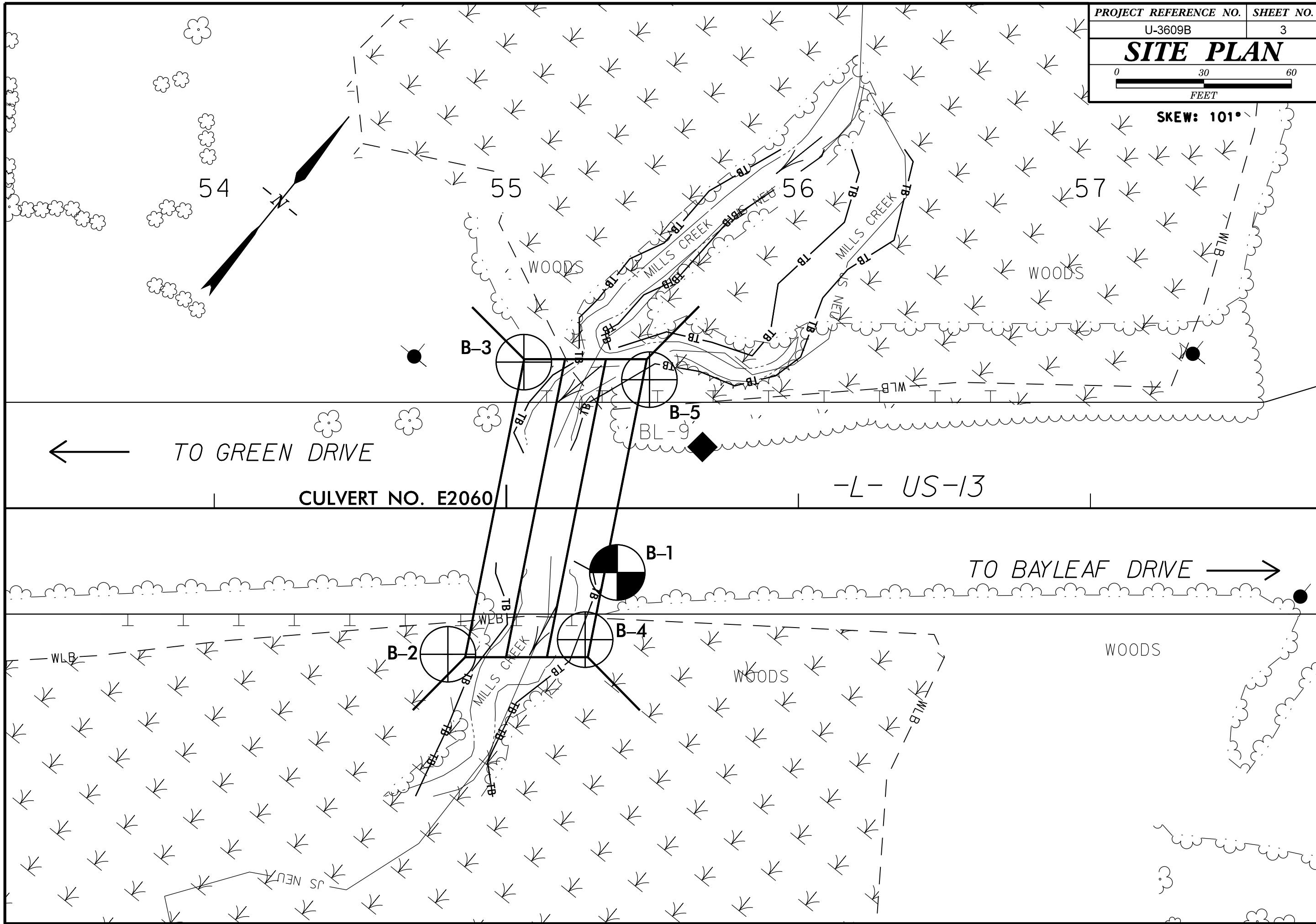
**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT**

SUBSURFACE INVESTIGATION

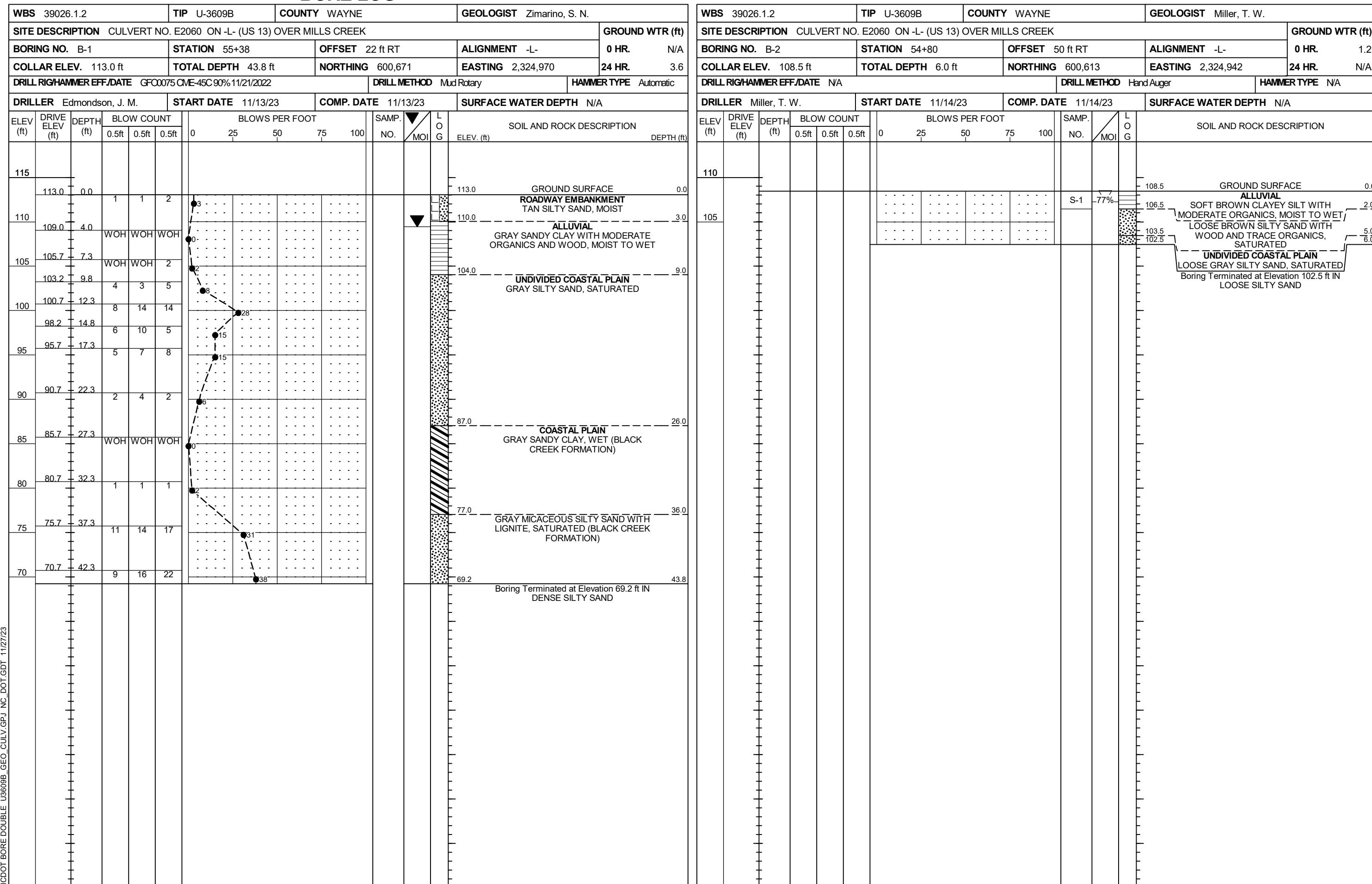
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

PROJECT REFERENCE NO.	SHEET NO.
U-3609B	3
SITE PLAN	
0	30
FEET	60

SKEW: 101°



GEOTECHNICAL BORING REPORT
BORE LOG



GEOTECHNICAL BORING REPORT

BORE LOG

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 39026.1.2	TIP U-3609B	COUNTY WAYNE	GEOLOGIST Miller, T. W.					
SITE DESCRIPTION CULVERT NO. E2060 ON -L- (US 13) OVER MILLS CREEK			GROUND WTR (ft)					
BORING NO. B-5	STATION 55+49	OFFSET 44 ft LT	ALIGNMENT -L- 0 HR. 2.3					
COLLAR ELEV. 107.9 ft	TOTAL DEPTH 6.0 ft	NORTHING 600,729	EASTING 2,324,936 24 HR. N/A					
DRILL RIG/HAMMER EFF/DATE N/A		DRILL METHOD Hand Auger	HAMMER TYPE N/A					
DRILLER Argenbright, D. N.	START DATE 11/14/23	COMP. DATE 11/14/23	SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft 0.5ft 0.5ft	0 25 50 75 100	SAMP. NO.	▼ MOI	L O G ELEV. (ft)	SOIL AND ROCK DESCRIPTION DEPTH (ft)
110								
105				.....			107.9	GROUND SURFACE 0.0
				.....			106.9	ALLUVIAL ~ 1.0
				.....			103.4	SOFT BROWN AND GRAY SANDY CLAY / AND CLAYEY SILT WITH WOOD, MOIST /
				.....			101.9	SOFT BROWN SILTY MUCK WITH WOOD, MOIST TO WET / 4.5
				.....				UNDIVIDED COASTAL PLAIN 6.0
								LOOSE GRAY SILTY SAND, SATURATED
								Boring Terminated at Elevation 101.9 ft IN
								LOOSE SILTY SAND

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY
MATERIALS & TESTS UNIT
SOILS LABORATORY

T. I. P. No. **U-3609B**

REPORT ON SAMPLES OF SOILS FOR QUALITY & ORGANIC

Project	39026.1.2	County	WAYNE	Owner	
Date: Sampled	11/1/23	Received	11/20/23	Reported	11/22/23
Sampled from	ROADWAY	By	T C BOTTOMS		
Submitted by	J L PILIPCHUK		2012 Standard Specifications		

818864 TO 818865

11/22/23

TEST RESULTS

Proj. Sample No.	S-1	S-2				
Lab. Sample No.	818864	818865				
Retained #4 Sieve %	-	1				
Passing #10 Sieve %	100	98				
Passing #40 Sieve %	88	85				
Passing #200 Sieve %	50	62				

MINUS NO. 10 FRACTION

SOIL MORTAR - 100%						
Coarse Sand Ret - #60 %	28.9	24.6				
Fine Sand Ret - #270 %	22.2	13.1				
Silt 0.05 - 0.005 mm %	32.8	58.2				
Clay < 0.005 mm %	16.1	4.0				
Passing #40 Sieve %	-	-				
Passing #200 Sieve %	-	-				

L. L.	46					
P. I.	9	NP				
AASHTO Classification	A-5(3)	A-4(0)				
Station	54+80	55+06				
Offset	50' RT	50' LT				
Alignment	L	L				
Location						
Depth (Ft)	0.00	0.00				
to	2.00	4.00				
% Moisture	77.3	212.7				
% Organic	12.4	29.1				

cc: T C BOTTOMS