

PROJECT: 45579

REFERENCE: B-5624

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY BRUNSWICK
PROJECT DESCRIPTION BRIDGE NO. 57 ON -L- (NC 211)
OVER DRIVING CREEK AT STA. 17 + 46

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5624	1	7

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.

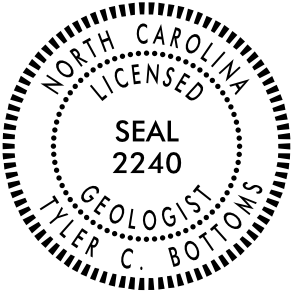
GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND 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
<u>S.N. ZIMARINO</u>
<u>R.E. SMITH</u>
<u>C.M. WALKER</u>

INVESTIGATED BY T.C. BOTTOMS
DRAWN BY S.N. ZIMARINO
CHECKED BY D.N. ARGENBRIGHT
SUBMITTED BY D.N. ARGENBRIGHT
DATE OCTOBER 2020



DocuSigned by:
Tyler Bottoms 12/11/2020
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SIGNATURE DATE

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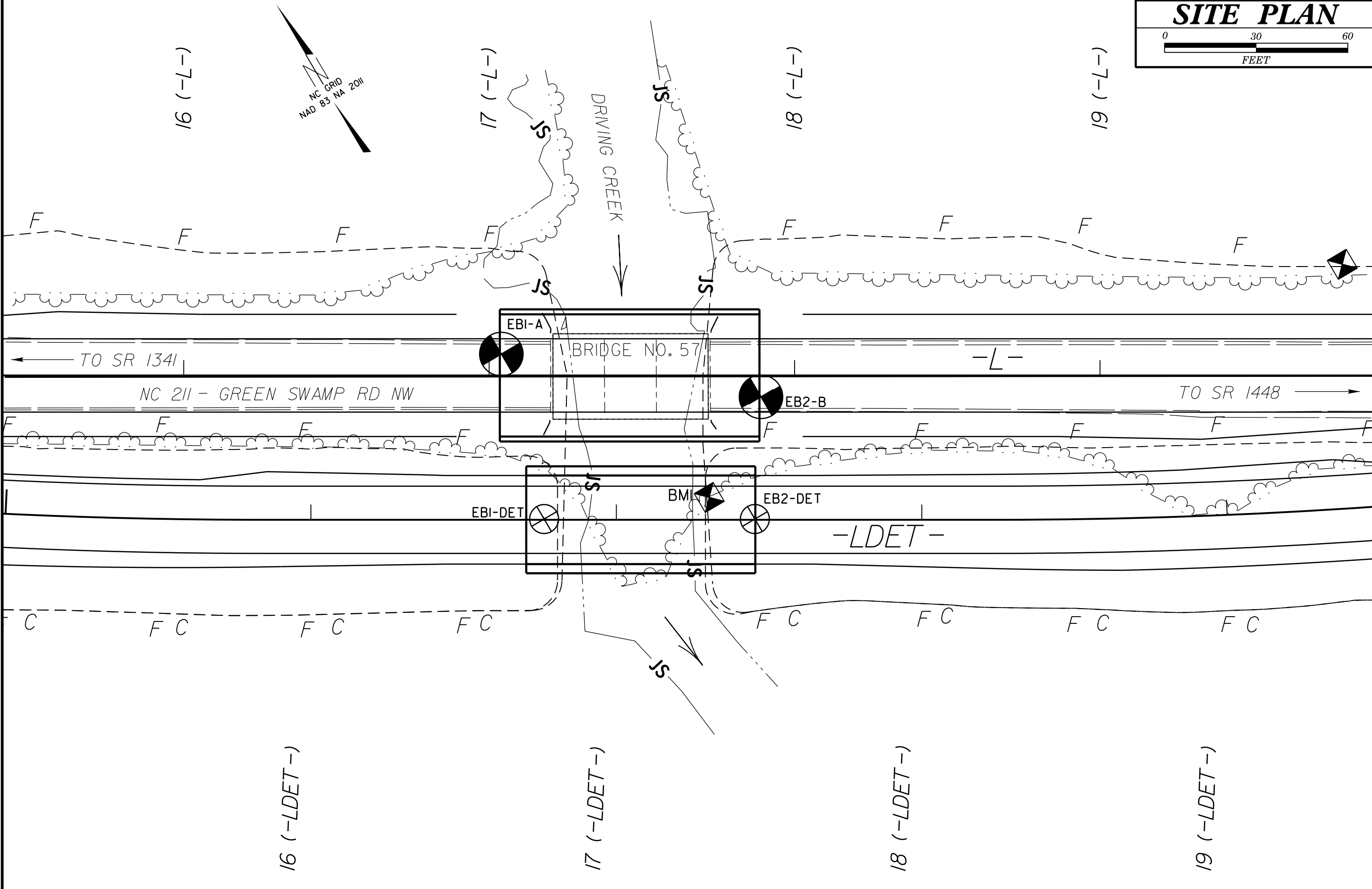
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

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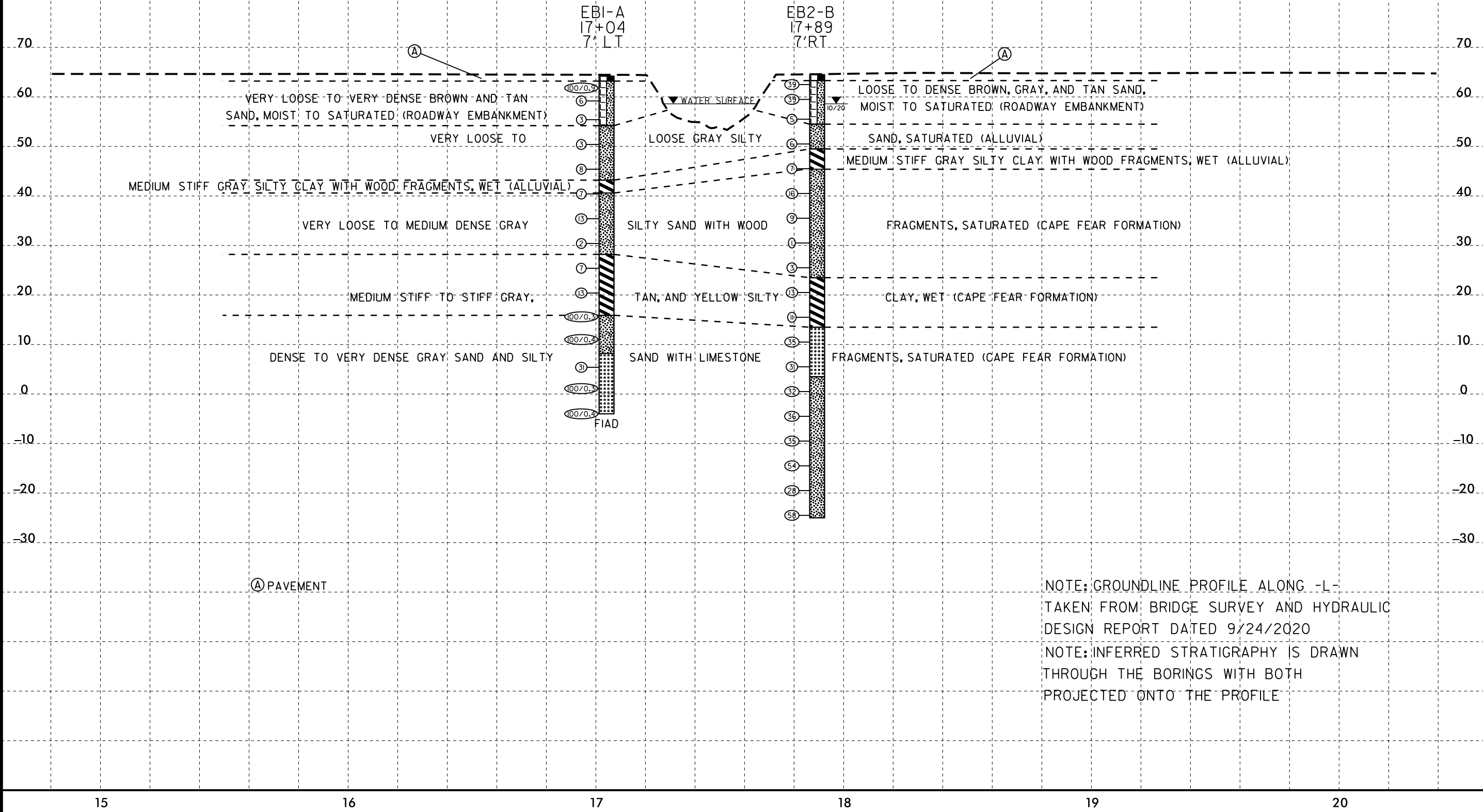


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PROJECT REFERENCE NO. B-5624		SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PROFILE THROUGH BORINGS PROJECTED ALONG -L-

V.E. = 2



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GEOTECHNICAL BORING REPORT
BORE LOG

WBS 45579.1.1			TIP B-5624			COUNTY BRUNSWICK			GEOLOGIST Zimarino, S. N.						
SITE DESCRIPTION BRIDGE NO. 57 ON -L- (NC 211) OVER DRIVING CREEK									GROUND WTR (ft)						
BORING NO. EB1-A			STATION 17+04			OFFSET 7 ft LT			ALIGNMENT -L-			0 HR. N/A			
COLLAR ELEV. 64.2 ft			TOTAL DEPTH 68.2 ft			NORTHING 128,891			EASTING 2,209,913			24 HR. FIAD			
DRILL RIG/HAMMER EFF./DATE GFC0075 CME-45C 92% 08/13/2020						DRILL METHOD Mud Rotary			HAMMER TYPE Automatic						
DRILLER Smith, R. E.			START DATE 10/01/20			COMP. DATE 10/01/20			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					MOI
65															
	63.2	1.0	38	55	45/0.4									64.2 GROUND SURFACE 0.0	
60	60.2	4.0	3	3	3									63.2 PAVEMENT 1.0	
														ROADWAY EMBANKMENT	
														TAN AND BROWN SILTY SAND, MOIST TO SATURATED	
55	56.4	7.8	1	1	2										
50	51.4	12.8	1	1	2									54.2 ALLUVIAL 10.0	
														GRAY SILTY SAND, SATURATED	
45	46.4	17.8	3	5	3										
40	41.4	22.8	WOH	2	5									43.2 GRAY SILTY CLAY WITH WOOD 21.0	
														40.6 FRAGMENTS, WET 23.6	
														COASTAL PLAIN	
														GRAY SILTY SAND WITH WOOD FRAGMENTS, SATURATED (CAPE FEAR FORMATION)	
35	36.4	27.8	5	6	7										
30	31.4	32.8	1	1	1										
25	26.4	37.8	1	3	4									28.2 GRAY AND YELLOW SILTY CLAY, WET 36.0	
20	21.4	42.8	3	6	7										
15	16.4	47.8	68	100/0.3										15.9 GRAY SAND AND SILTY SAND WITH 48.3	
														LIMESTONE FRAGMENTS, SATURATED	
10	11.4	52.8	100/0.4												
5	6.4	57.8	36	15	16									8.2 56.0	
0	1.4	62.8	100/0.3												
	-3.6	67.8	100/0.4											-4.0 68.2	
														Boring Terminated at Elevation -4.0 ft in Very Dense Sand	

NCDOT BORE DOUBLE B5624_GEO BRDG.GPJ NC_DOT.GDT 10/9/20

NC DOT BORE DOUBLE B5624_GEO_BRDG.GPJ NC DOT.GDT 10/9/20

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NCDOT BORE DOUBLE B5624 GEO BRDG.GPJ NC DOT GDT 10/9/20

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