

REFERENCE: B-4926

PROJECT: 40163

CONTENTS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY LENOIR
 PROJECT DESCRIPTION BRIDGE NO. 20 AND BRIDGE
NO. 34 ON NC 55 OVER THE NEUSE RIVER

SITE DESCRIPTION BRIDGE NO. 20 ON NC 55 OVER
THE NEUSE RIVER AT -L- STA. 25 +45

INVENTORY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4926	1	15

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:

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

J. HOWARD

K. PLUMMER

B. POWELL

L. GONZALEZ

INVESTIGATED BY WOOD E&S, INC.

DRAWN BY R. RAHIE

CHECKED BY C. T. TANG

SUBMITTED BY M. LEAR

DATE FEBRUARY, 2022

WOOD E&S, INC.
 4021 STIRRUP CREEK DRIVE, SUITE 100
 DURHAM, NORTH CAROLINA 27703
 (919) 381-9900

NC Engineering F-1253 NC Geology C-247



4/18/2022

SIGNATURE

DATE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

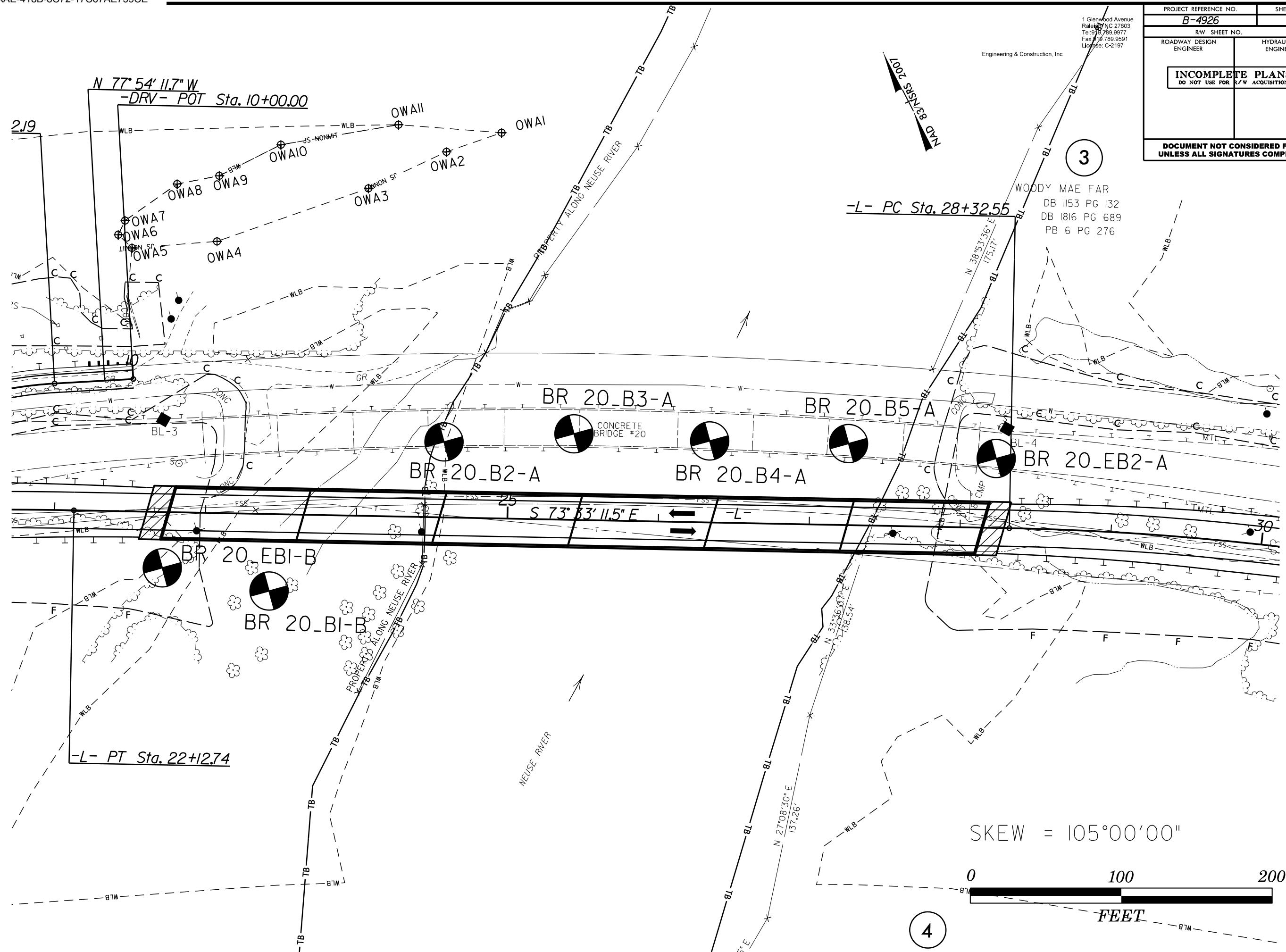
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, TERMS AND DEFINITIONS, SOIL LEGEND AND AASHTO CLASSIFICATION, CONSISTENCY OR DENSENESS, TEXTURE OR GRAIN SIZE, SOIL MOISTURE - CORRELATION OF TERMS, PLASTICITY, COLOR, MISCELLANEOUS SYMBOLS, RECOMMENDATION SYMBOLS, ABBREVIATIONS, EQUIPMENT USED ON SUBJECT PROJECT, FRACTURE SPACING, BEDDING, INDURATION.

PROJECT REFERENCE NO. B-4926	SHEET NO. 3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

1 Glenwood Avenue
Raleigh, NC 27603
Tel: 919.789.9977
Fax: 919.789.9591
License: C-2197

Engineering & Construction, Inc.



3

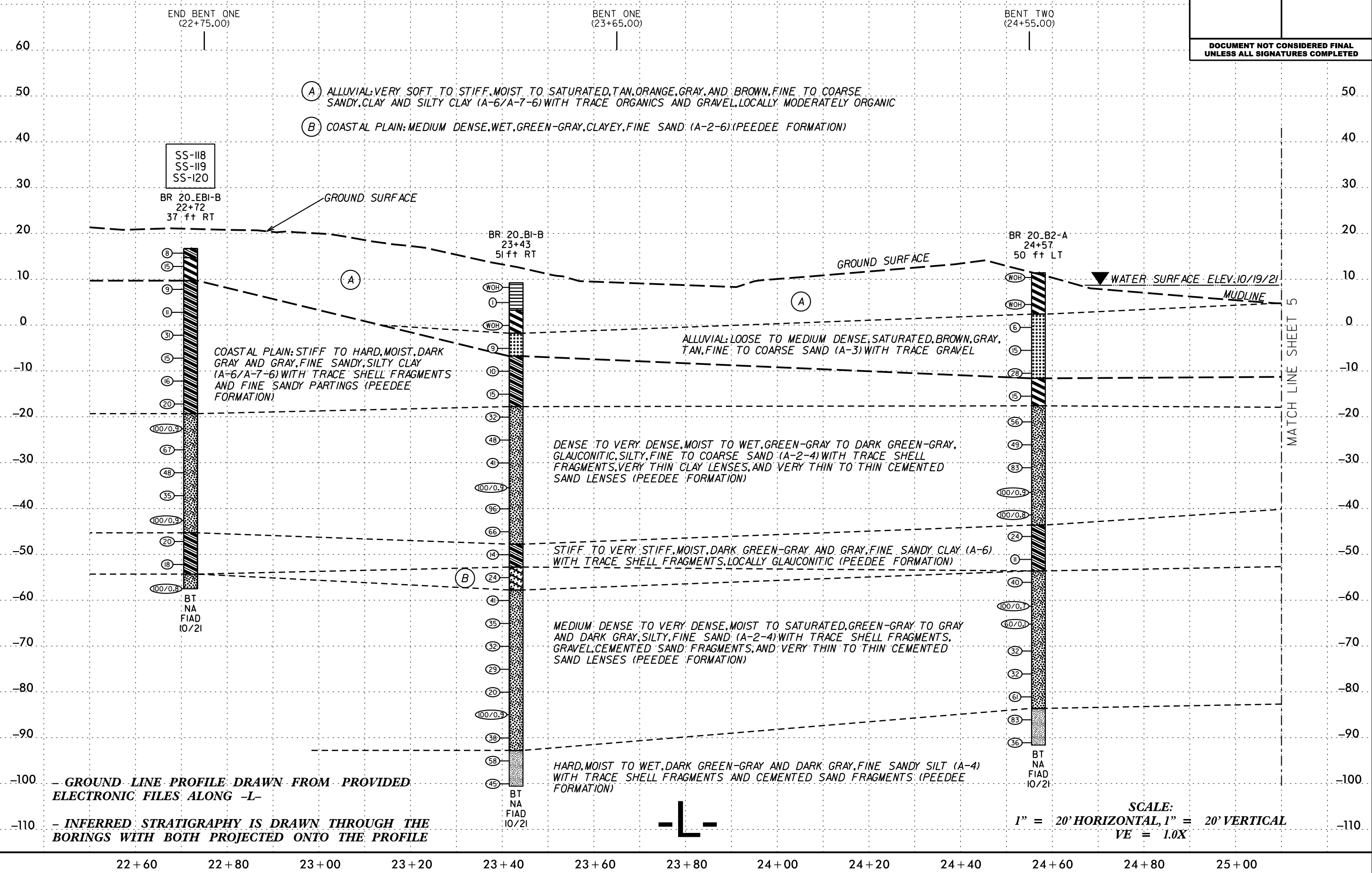
WOODY MAE FAR
DB 1153 PG 132
DB 1816 PG 689
PB 6 PG 276

4

SKEW = 105°00'00"
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 Michael

PROJECT REFERENCE NO. B-4926	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	



5/28/9c
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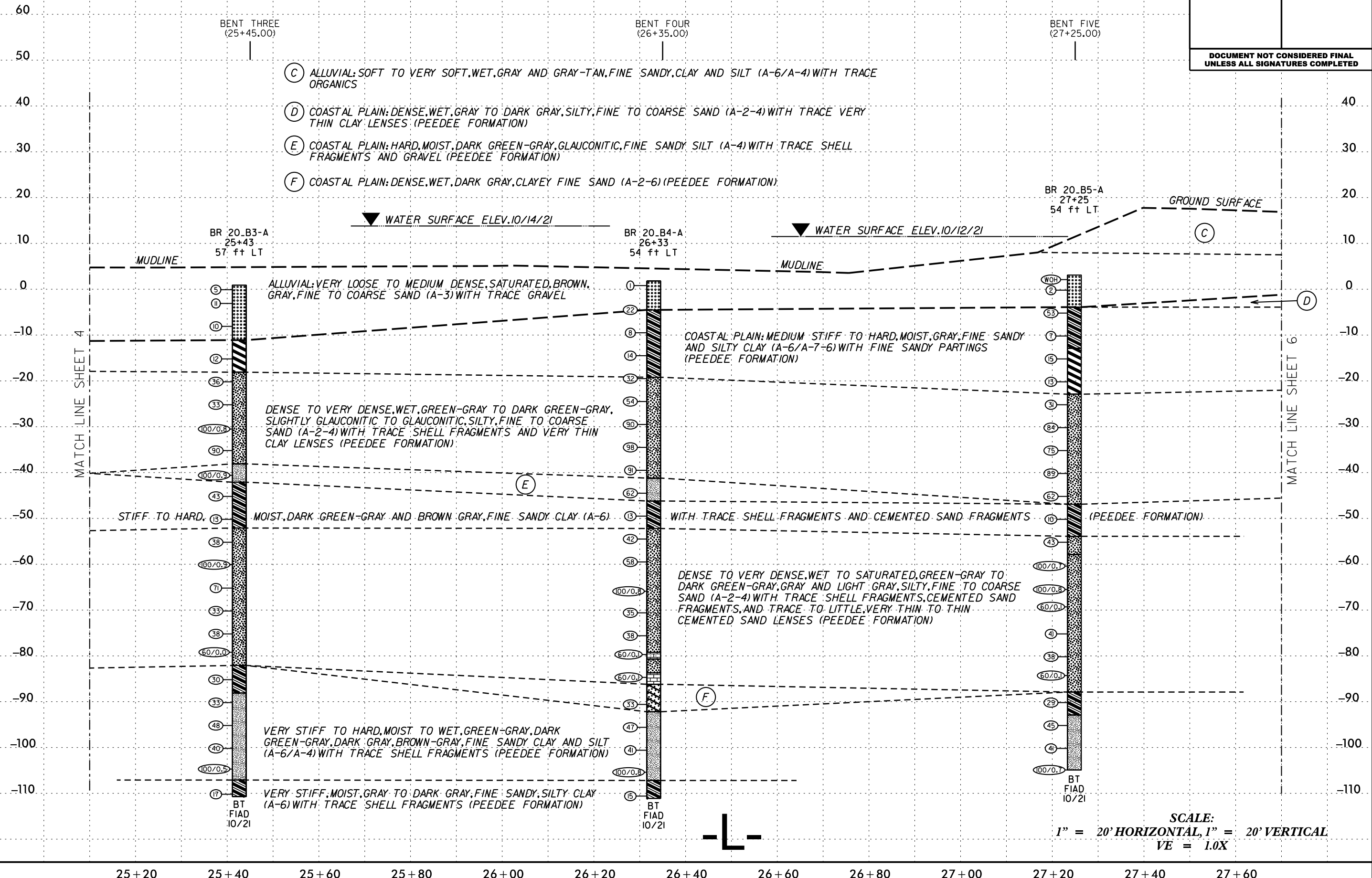
MATCH LINE SHEET 5

- GROUND LINE PROFILE DRAWN FROM PROVIDED ELECTRONIC FILES ALONG -L-

- INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH PROJECTED ONTO THE PROFILE



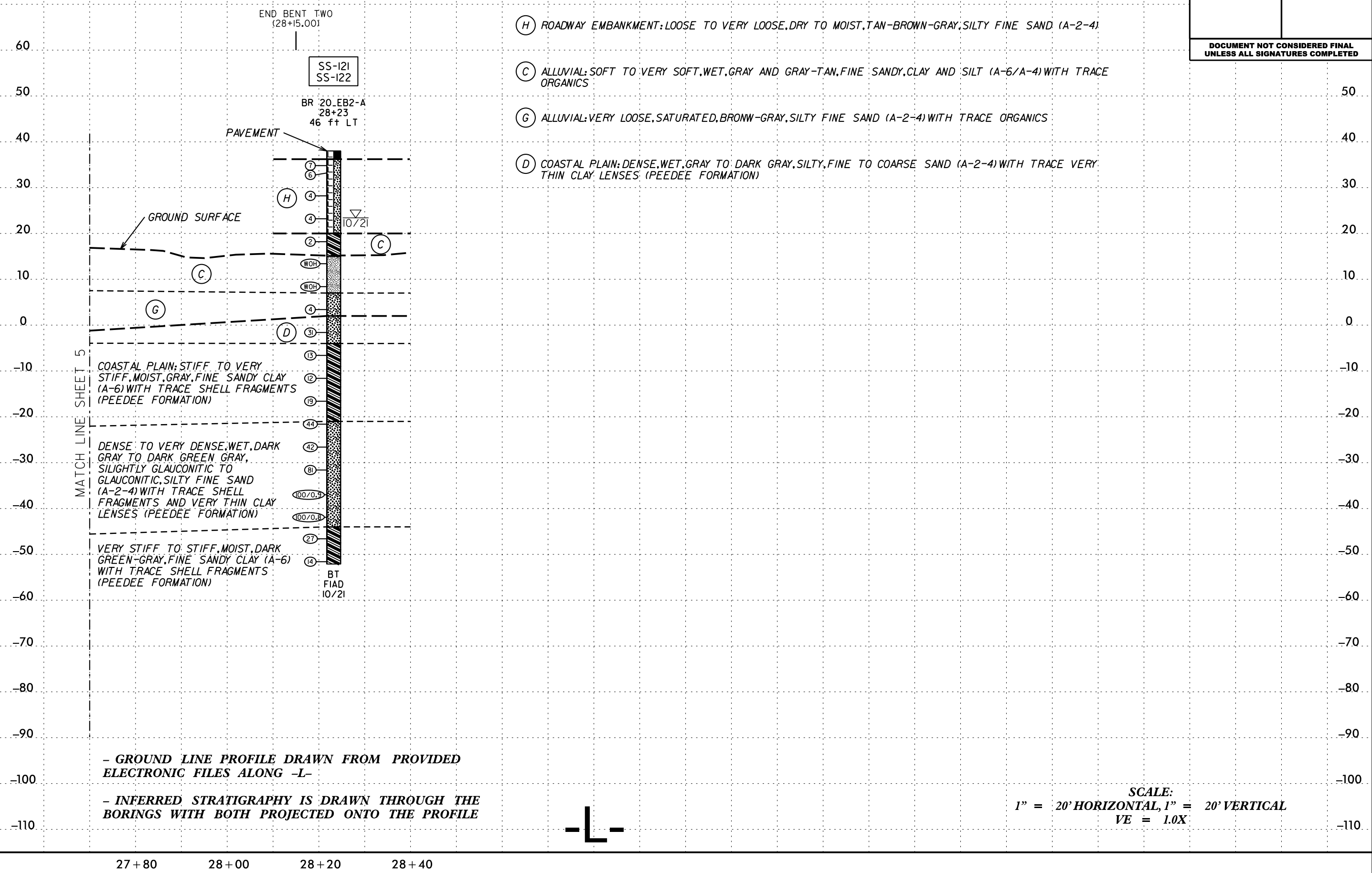
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SCALE: 1" = 20' HORIZONTAL, 1" = 20' VERTICAL VE = 1.0X

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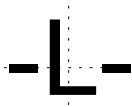
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE SHEET 5

- GROUND LINE PROFILE DRAWN FROM PROVIDED ELECTRONIC FILES ALONG -L-
- INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH PROJECTED ONTO THE PROFILE

SCALE:
1" = 20' HORIZONTAL, 1" = 20' VERTICAL
VE = 1.0X



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GEOTECHNICAL BORING REPORT BORE LOG

GEOTECHNICAL BORING REPORT BORE LOG

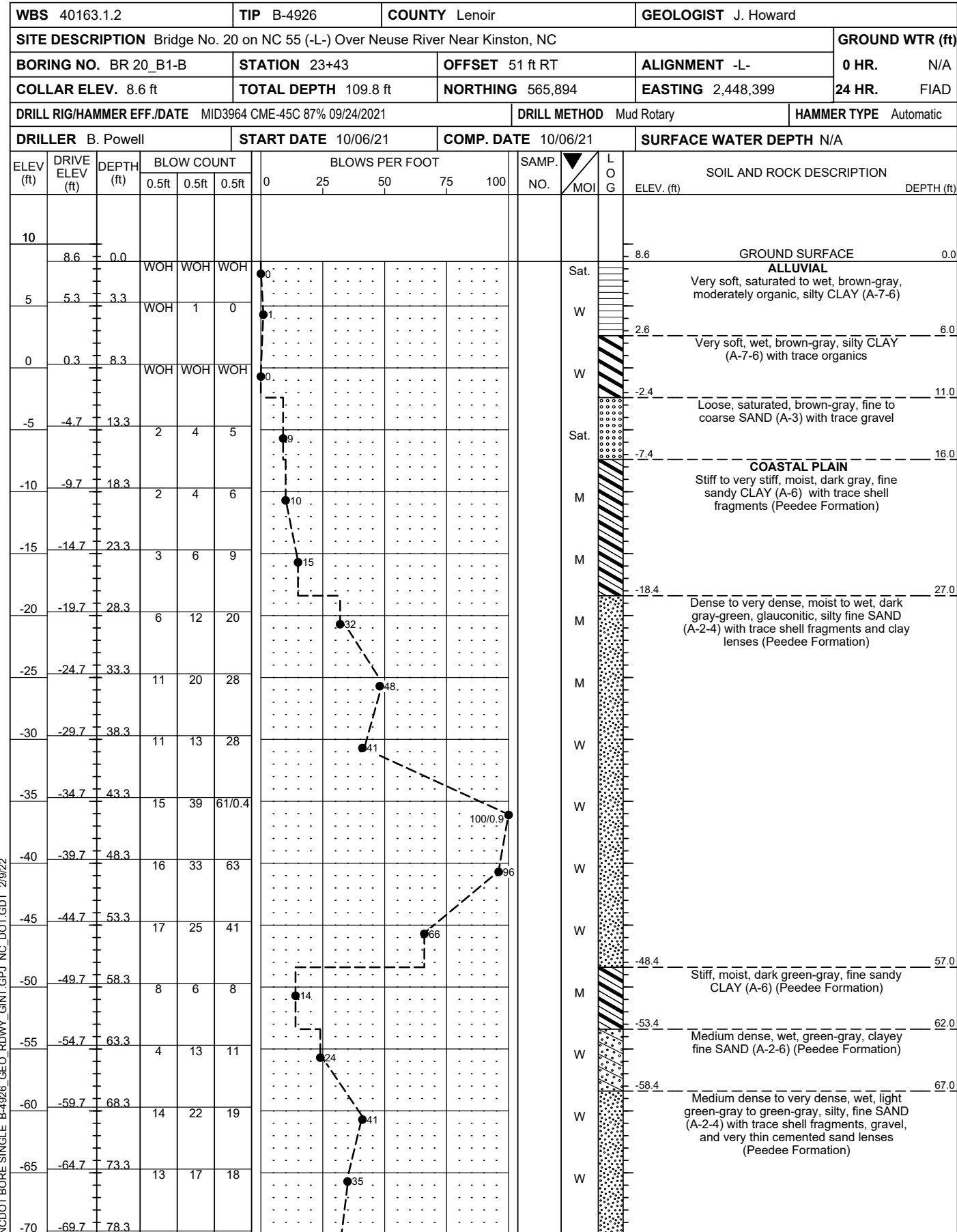
WBS 40163.1.2		TIP B-4926		COUNTY Lenoir		GEOLOGIST J. Howard														
SITE DESCRIPTION Bridge No. 20 on NC 55 (-L-) Over Neuse River Near Kinston, NC						GROUND WTR (ft)														
BORING NO. BR 20_EB1-B		STATION 22+72		OFFSET 37 ft RT		ALIGNMENT -L-		0 HR. N/A												
COLLAR ELEV. 16.7 ft		TOTAL DEPTH 74.2 ft		NORTHING 565,928		EASTING 2,448,335		24 HR. FIAD												
DRILL RIG/HAMMER EFF./DATE MID3964 CME-45C 87% 09/24/2021				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic														
DRILLER B. Powell		START DATE 10/05/21		COMP. DATE 10/05/21		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 ELEV. (ft) DEPTH (ft)						
			0.5ft	0.5ft	0.5ft	0	25	50	75	100										
20																	16.7	0.0	GROUND SURFACE	0.0
15	16.7	0.0	1	4	4	...	...	...	...	...	SS-118	13%			14.7	2.9	14.7	2.9	Medium stiff, moist, tan-orange, fine to coarse sandy CLAY (A-6) with trace organics and gravel	2.0
10	13.8	2.9	6	6	9	...	...	...	...	...	SS-119	28%			9.7	7.9	9.7	7.9	Stiff, moist, tan-gray, fine sandy CLAY (A-7-6) with trace gravel	7.0
5	8.8	7.9	2	4	5	...	...	...	...	...	SS-120	29%			3.8	12.9	3.8	12.9	COASTAL PLAIN Stiff to hard, moist, dark gray, fine sandy CLAY (A-6) with trace shell fragments and fine sandy partings (Peedee Formation)	
0	-1.2	17.9	4	5	6	...	...	...	...	...	M									
-5	-6.2	22.9	6	7	8	...	...	...	...	...	M									
-10	-11.2	27.9	3	6	10	...	...	...	...	...	M									
-15	-16.2	32.9	4	8	12	...	...	...	...	...	M									
-20	-21.2	37.9	16	40	60/0.4	...	...	...	...	...	M									
-25	-26.2	42.9	19	27	40	...	...	...	...	...	M									
-30	-31.2	47.9	9	13	35	...	...	...	...	...	W									
-35	-36.2	52.9	11	15	20	...	...	...	...	...	W									
-40	-41.2	57.9	16	34	60/0.4	...	...	...	...	...	W									
-45	-46.2	62.9	5	9	11	...	...	...	...	...	W									
-50	-51.2	67.9	4	7	11	...	...	...	...	...	M									
-55	-56.2	72.9	18	23	77/0.3	...	...	...	...	...	M									
											M									

NCDOT BORE SINGLE B-4926_GEO_RDWY_GINT.GPJ_NC_DOT.GDT 2/9/22

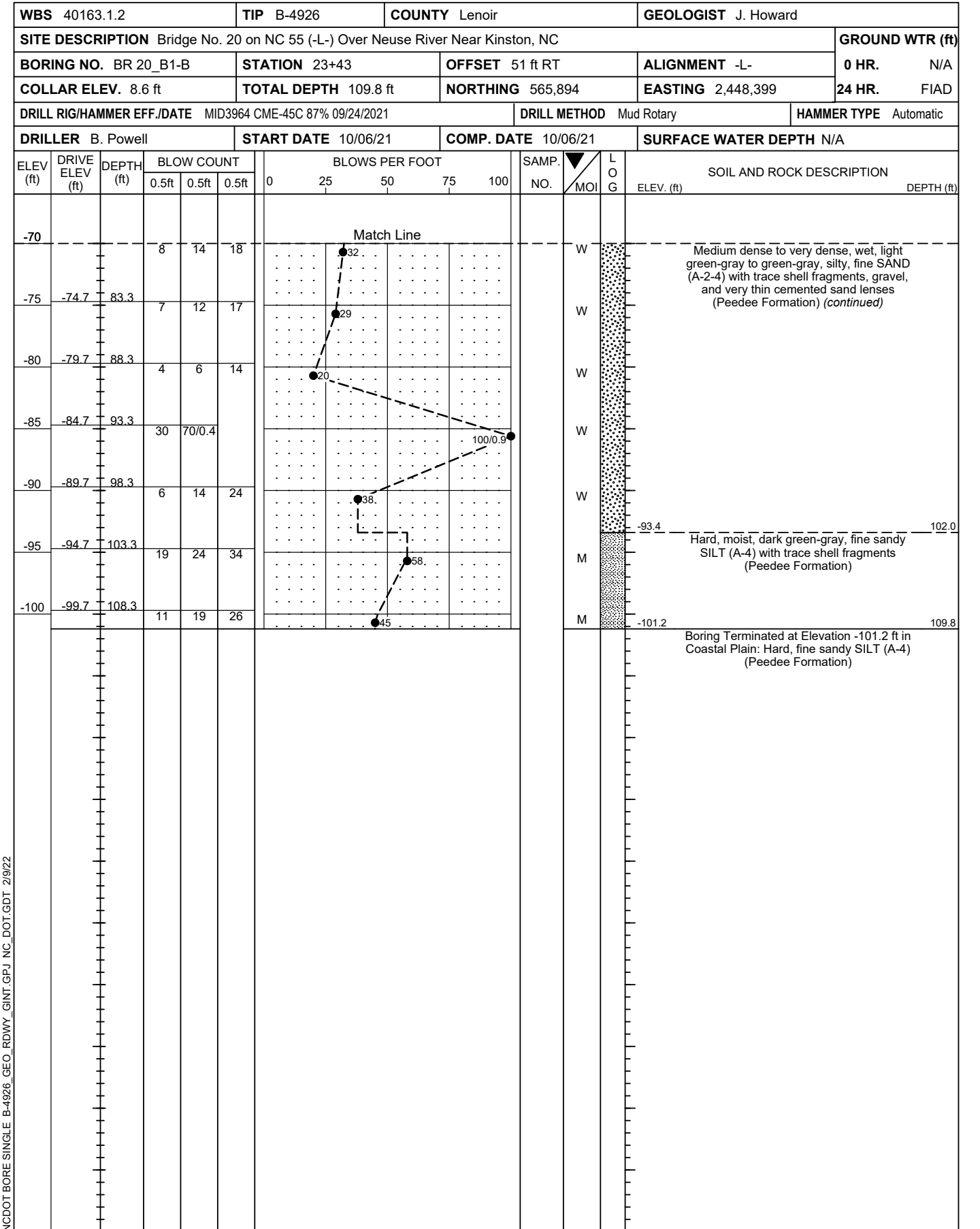
WBS 40163.1.2		TIP B-4926		COUNTY Lenoir		GEOLOGIST J. Howard																		
SITE DESCRIPTION Bridge No. 20 on NC 55 (-L-) Over Neuse River Near Kinston, NC						GROUND WTR (ft)																		
BORING NO. BR 20_EB1-B		STATION 22+72		OFFSET 37 ft RT		ALIGNMENT -L-		0 HR. N/A																
COLLAR ELEV. 16.7 ft		TOTAL DEPTH 74.2 ft		NORTHING 565,928		EASTING 2,448,335		24 HR. FIAD																
DRILL RIG/HAMMER EFF./DATE MID3964 CME-45C 87% 09/24/2021				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic																		
DRILLER B. Powell		START DATE 10/05/21		COMP. DATE 10/05/21		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 ELEV. (ft) DEPTH (ft)										
			0.5ft	0.5ft	0.5ft	0	25	50	75	100														
-60																								

NCDOT BORE SINGLE B-4926_GEO_RDWY_GINT.GPJ_NC_DOT.GDT 2/9/22

GEOTECHNICAL BORING REPORT BORE LOG



GEOTECHNICAL BORING REPORT BORE LOG



GEOTECHNICAL BORING REPORT BORE LOG

WBS 40163.1.2		TIP B-4926		COUNTY Lenoir		GEOLOGIST J. Howard											
SITE DESCRIPTION Bridge No. 20 on NC 55 (-L-) Over Neuse River Near Kinston, NC							GROUND WTR (ft)										
BORING NO. BR 20_B2-A		STATION 24+57		OFFSET 50 ft LT		ALIGNMENT -L-	0 HR. N/A										
COLLAR ELEV. 11.4 ft		TOTAL DEPTH 103.0 ft		NORTHING 565,959		EASTING 2,448,537	24 HR. FIAD										
DRILL RIG/HAMMER EFF./DATE SUM3123 CME-550X 91% 11/19/2020				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER L. Gonzalez Castillo		START DATE 10/21/21		COMP. DATE 10/22/21		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)		
15																	
	11.4	0.0	WOH	WOH	WOH											11.4	GROUND SURFACE
10														M			ALLUVIAL Very soft, moist, tan-gray, silty CLAY (A-7-6) with trace organics
5	5.5	5.9	WOH	WOH	WOH									M			
0	0.5	10.9				1	3	3						Sat.		2.4	Loose to medium dense, saturated, gray-tan, fine to coarse SAND (A-3)
-5	-4.5	15.9				2	7	8						Sat.			
-10	-9.5	20.9				8	9	19						Sat.			
-15	-14.5	25.9				5	5	10						M		-11.6	COASTAL PLAIN Very stiff, moist, gray, fine sandy, silty CLAY (A-7-6) with fine sandy partings (Pee Dee Formation)
-20	-20.1	31.5				10	25	31						W		-17.6	Dense to very dense, wet, light green-gray to dark green-gray, slightly glauconitic to glauconitic, silty, fine to coarse SAND (A-2-4) with trace shell fragments and very thin clay lenses (Pee Dee Formation)
-25	-25.1	36.5				6	16	33						W			
-30	-30.1	41.5				18	30	53						W			
-35	-35.1	46.5				21	40	60/0.4						W			
-40	-40.1	51.5				19	43	58/0.3						W			
-45	-45.1	56.5				26	11	13						M		-43.6	Very stiff to stiff, moist, dark gray, fine sandy CLAY (A-6) with trace shell fragments (Pee Dee Formation)
-50	-50.1	61.5				4	5	6						M			
-55	-55.1	66.5				20	17	23						W		-53.6	Dense to very dense, wet to saturated, gray, silty fine SAND (A-2-4) with trace shell fragments, cemented sand fragments, and very thin to thin cemented sand lenses (Pee Dee Formation)
-60	-60.1	71.5				7	14	86/0.2						W			
-65																	

NCDOT BORE SINGLE B-4926 GEO_RDWY_GINT.GPJ_NC_DOT.GDT 2/9/22

GEOTECHNICAL BORING REPORT BORE LOG

WBS 40163.1.2		TIP B-4926		COUNTY Lenoir		GEOLOGIST J. Howard											
SITE DESCRIPTION Bridge No. 20 on NC 55 (-L-) Over Neuse River Near Kinston, NC							GROUND WTR (ft)										
BORING NO. BR 20_B2-A		STATION 24+57		OFFSET 50 ft LT		ALIGNMENT -L-	0 HR. N/A										
COLLAR ELEV. 11.4 ft		TOTAL DEPTH 103.0 ft		NORTHING 565,959		EASTING 2,448,537	24 HR. FIAD										
DRILL RIG/HAMMER EFF./DATE SUM3123 CME-550X 91% 11/19/2020				DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER L. Gonzalez Castillo		START DATE 10/21/21		COMP. DATE 10/22/21		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)		
-65	-65.1	76.5				60/0.1											
-70	-70.1	81.5				10	14	18						W			Dense to very dense, wet to saturated, gray, silty fine SAND (A-2-4) with trace shell fragments, cemented sand fragments, and very thin to thin cemented sand lenses (Pee Dee Formation) (continued)
-75	-75.1	86.5				9	15	17						W			
-80	-80.1	91.5				15	29	32						Sat.			
-85	-85.1	96.5				14	38	45						W		-83.6	Hard, wet, dark gray, fine sandy SILT (A-4) with trace cemented sand fragments (Pee Dee Formation)
-90	-90.1	101.5				8	11	25						W		-91.6	Boring Terminated at Elevation -91.6 ft in Coastal Plain: Hard, fine sandy SILT (A-4) (Pee Dee Formation)

NCDOT BORE SINGLE B-4926 GEO_RDWY_GINT.GPJ_NC_DOT.GDT 2/9/22

GEOTECHNICAL BORING REPORT BORE LOG

WBS 40163.1.2		TIP B-4926		COUNTY Lenoir		GEOLOGIST J. Howard										
SITE DESCRIPTION Bridge No. 20 on NC 55 (-L-) Over Neuse River Near Kinston, NC						GROUND WTR (ft)										
BORING NO. BR 20_B3-A		STATION 25+43		OFFSET 57 ft LT		ALIGNMENT -L-										
COLLAR ELEV. 0.9 ft		TOTAL DEPTH 111.6 ft		NORTHING 565,941		EASTING 2,448,621										
DRILL RIG/HAMMER EFF./DATE SUM3123 CME-550X 91% 11/19/2020		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic												
DRILLER L. Gonzalez Castillo		START DATE 10/19/21		COMP. DATE 10/20/21		SURFACE WATER DEPTH 7.8ft										
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)	
15																
10																
5																
0	0.9	0.0	2	2	3										0.9	0.0
-5	-2.1	3.0	4	5	6											
-10	-7.1	8.0	4	5	5											
-15	-14.2	15.1	3	5	7											
-20	-19.2	20.1	6	17	19											
-25	-24.2	25.1	6	13	20											
-30	-29.2	30.1	22	50	50/0.3											
-35	-34.2	35.1	17	31	59											
-40	-39.2	40.1	18	34	66/0.4											
-45	-44.2	45.1	18	25	18											
-50	-49.2	50.1	4	6	7											
-55	-54.2	55.1	8	13	25											
-60	-59.2	60.1	15	85/0.4												
-65	-64.2	65.1	21	50	21											

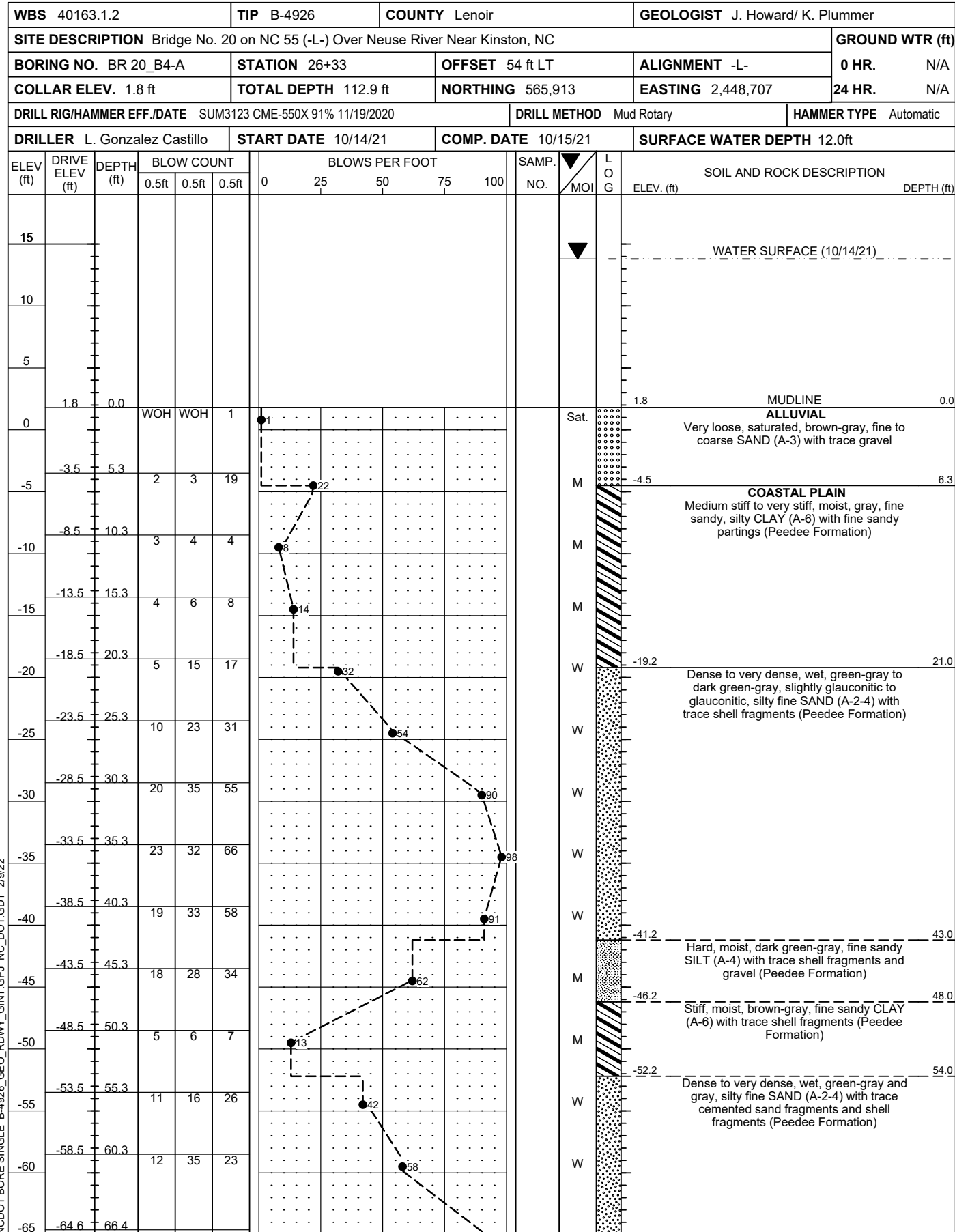
NCDOT BORE SINGLE B-4926 GEO_RDWY_GINT.GPJ_NC_DOT.GDT 2/9/22

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COLLAR ELEV. 0.9 ft		TOTAL DEPTH 111.6 ft		NORTHING 565,941		EASTING 2,448,621										
DRILL RIG/HAMMER EFF./DATE SUM3123 CME-550X 91% 11/19/2020		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic												
DRILLER L. Gonzalez Castillo		START DATE 10/19/21		COMP. DATE 10/20/21		SURFACE WATER DEPTH 7.8ft										
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)	
-65																
-70	-69.2	70.1	8	14	19											
-75	-74.2	75.1	14	17	21											
-80	-79.2	80.1	60/0.0													
-85	-84.2	85.1	15	17	13											
-90	-89.2	90.1	9	15	18											
-95	-94.2	95.1	17	21	27											
-100	-99.2	100.1	11	17	23											
-105	-104.2	105.1	100/0.5													
-110	-109.2	110.1	6	7	10											

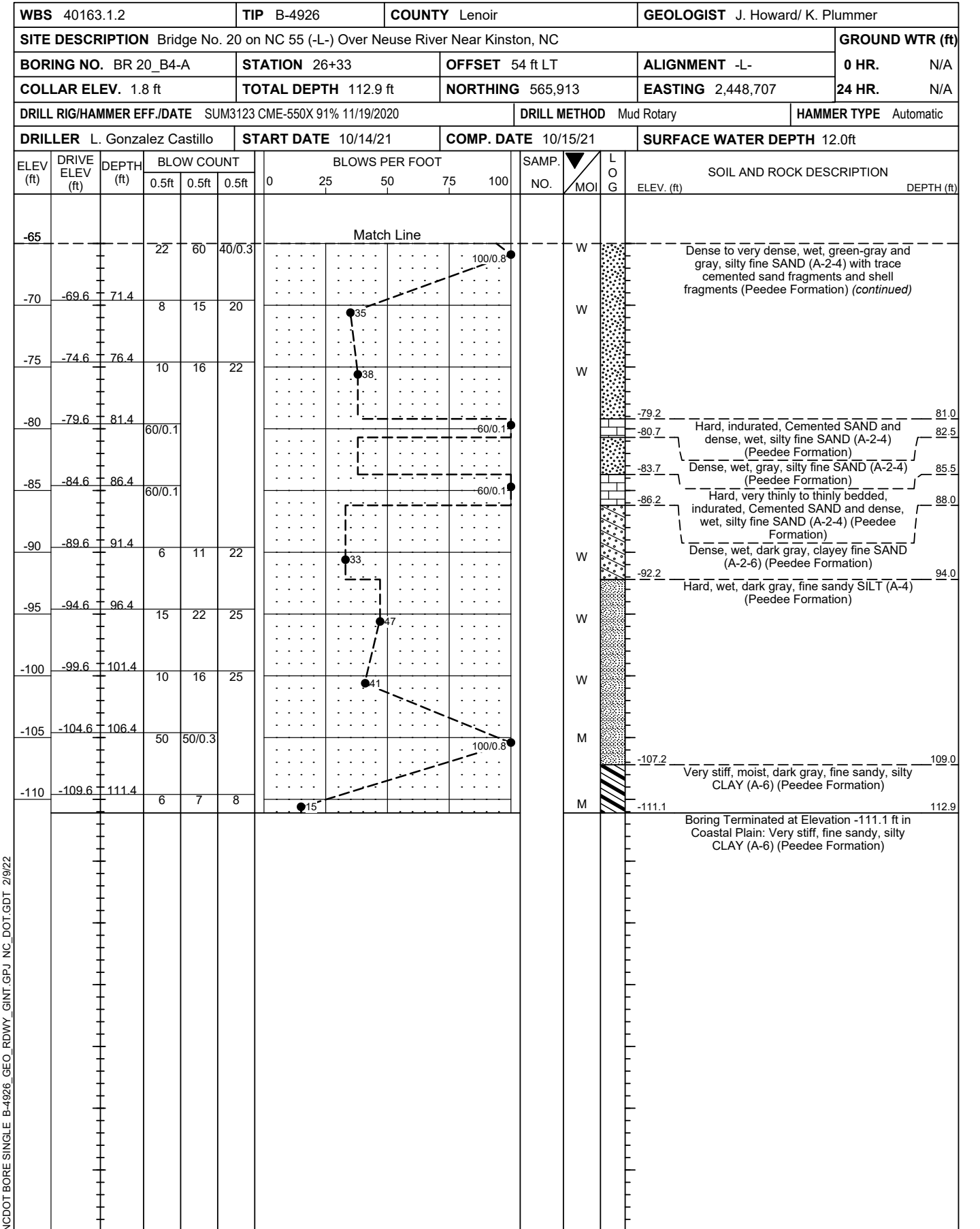
NCDOT BORE SINGLE B-4926 GEO_RDWY_GINT.GPJ_NC_DOT.GDT 2/9/22

GEOTECHNICAL BORING REPORT BORE LOG



NCDOT BORE SINGLE B-4926 GEO_RDWY_GINT.GPJ NC_DOT.GDT 2/9/22

GEOTECHNICAL BORING REPORT BORE LOG



NCDOT BORE SINGLE B-4926 GEO_RDWY_GINT.GPJ NC_DOT.GDT 2/9/22

Wood E&IS Project No.: 6468-19-9027

Bridge No. 20 on NC 55 (-L-) Over the Neuse River at -L- Sta. 25+45

Date Reported: 10/29/2021

SHEET 14

NCDOT WBS No.: 40163.1.2

Tip No.: B-4926

County: LENOIR

Date Tested: October 2021

SOIL TEST RESULTS

SAMPLE NO.	BORING	STATION	OFFSET	LINE	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVES			% MOISTURE	% ORGANIC
									C. SAND	F. SAND	SILT	CLAY	10	40	200		
SS-118	BR 20 EBI-B	22+72	37' RT	-L-	0.0-1.5'	A-6(1)	27	11	17.0	41.5	7.6	32.4	98.5	92.3	43.1	12.7	-
SS-119	BR 20 EBI-B	22+72	37' RT	-L-	2.9-4.4'	A-7-6(12)	56	38	1.6	55.4	17.9	23.1	98.0	97.1	45.5	27.6	-
SS-120	BR 20 EBI-B	22+72	37' RT	-L-	7.9-9.4'	A-6(2)	32	14	1.7	62.9	12.2	23.2	100.0	99.1	41.9	28.9	-
SS-121	BR 20 EB2-A	28+23	46' LT	-L-	18.8-20.3'	A-6(5)	30	13	2.4	47.3	14.7	35.6	100.0	99.5	58.8	27.3	-
SS-122	BR 20 EB2-A	28+23	46' LT	-L-	23.6-25.1'	A-4(2)	24	10	5.6	47.8	15.9	30.7	100.0	99.7	51.7	26.8	-

ND = NOT DETERMINED

NV = NO VALUE

NP = NON-PLASTIC



Signature

115-01-0504

Certification #

Albert Romero

Print Name

SITE PHOTOGRAPH

