

PROJECT: 17BP.2.R.71 REFERENCE: SF-150063

CONTENTS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND
3	SITE PLAN
4	PROFILE
5-6	BORELOGS

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY CARTERET
 PROJECT DESCRIPTION BRIDGE NO. 63 ON -L-
(SR 1104) OVER HADNOT CREEK

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SF-150063	1	6

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.K. CRENSHAW

R.E. SMITH

J.M. EDMONDSON

INVESTIGATED BY T.C. BOTTOMS

DRAWN BY T.C. BOTTOMS

CHECKED BY D.N. ARGENBRIGHT

SUBMITTED BY D.N. ARGENBRIGHT

DATE JANUARY 2017



DocuSigned by:

Tyler C. Bottoms

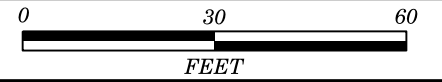
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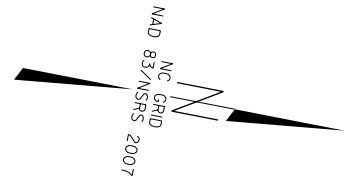
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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

SITE PLAN



SKIEW = 90°



13

14

JS

JS

15

16

HADNOT CREEK

Sf

JS

EB2-A

EB1-B

B1-B

BR.# 63

← TO NC 58

OLD CHURCH RD (SR 1104)

TO NC 58 →

WLB

CP#11

WLB

WLB

CP#12

EB1 BENT LINE

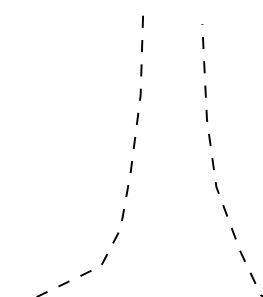
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HADNOT CREEK

B1 BENT LINE

Sf

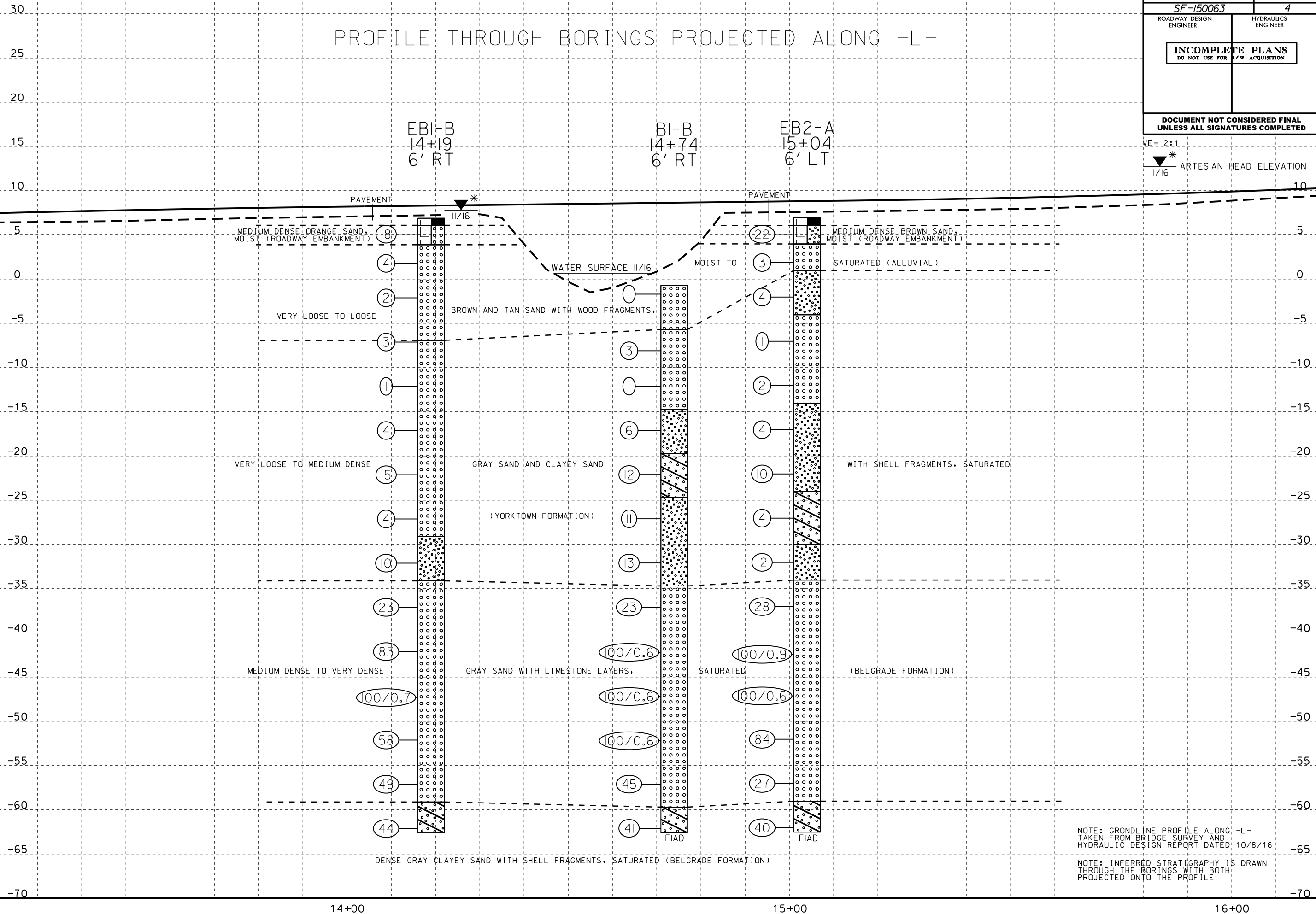
EB2 BENT LINE



5/14/99

PROJECT REFERENCE NO. SF-150063	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-



VE = 2:1
 * 11/16 ARTESIAN HEAD ELEVATION

NOTE: GRONDLINE PROFILE ALONG -L- TAKEN FROM BRIDGE SURVEY AND HYDRAULIC DESIGN REPORT DATED 10/8/16
 NOTE: INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH PROJECTED ONTO THE PROFILE

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GEOTECHNICAL BORING REPORT

BORE LOG

WBS 17BP.2.R.71		TIP SF-150063		COUNTY CARTERET		GEOLOGIST Crenshaw, J. K.										
SITE DESCRIPTION BRIDGE NO. 63 ON -L- (SR 1104) OVER HADNOT CREEK							GROUND WTR (ft)									
BORING NO. EB1-B		STATION 14+19		OFFSET 6 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 6.9 ft		TOTAL DEPTH 69.5 ft		NORTHING 377,630		EASTING 2,576,069										
DRILL RIG/HAMMER EFF./DATE GFO0075 CME-45C 83% 04/11/2016			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER Edmondson, J. M.		START DATE 01/03/17		COMP. DATE 01/04/17		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						
10																
	6.1	0.8														
5			7	8	10											
	2.8	4.1														
0			1	2	2											
	-1.1	8.0														
-5			3	1	1											
	-6.1	13.0														
-10			1	1	2											
	-11.1	18.0														
-15			WOH	WOH	1											
	-16.1	23.0														
-20			3	3	1											
	-21.1	28.0														
-25			4	3	12											
	-26.1	33.0														
-30			3	2	2											
	-31.1	38.0														
-35			4	3	12											
	-36.1	43.0														
-40			2	7	16											
	-41.1	48.0														
-45			15	30	53											
	-46.1	53.0														
-50			22	64	36/0.2											
	-51.1	58.0														
-55			18	28	30											
	-56.1	63.0														
-60			20	26	23											
	-61.1	68.0														
			13	22	22											

WBS 17BP.2.R.71		TIP SF-150063		COUNTY CARTERET		GEOLOGIST Crenshaw, J. K.										
SITE DESCRIPTION BRIDGE NO. 63 ON -L- (SR 1104) OVER HADNOT CREEK							GROUND WTR (ft)									
BORING NO. B1-B		STATION 14+74		OFFSET 6 ft RT		ALIGNMENT -L-										
COLLAR ELEV. -0.7 ft		TOTAL DEPTH 61.9 ft		NORTHING 377,684		EASTING 2,576,058										
DRILL RIG/HAMMER EFF./DATE GFO0075 CME-45C 83% 04/11/2016			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER Edmondson, J. M.		START DATE 01/04/16		COMP. DATE 01/04/16		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						
0	-0.7	0.0														
			WOH	WOH	1											
-5																
	-7.1	6.4														
-10			WOH	1	2											
	-11.1	10.4														
-15			WOH	WOH	1											
	-16.1	15.4														
-20			4	3	3											
	-21.1	20.4														
-25			4	5	7											
	-26.1	25.4														
-30			2	5	6											
	-31.1	30.4														
-35			4	6	7											
	-36.1	35.4														
-40			5	7	16											
	-41.1	40.4														
-45			28	61	39/0.1											
	-46.1	45.4														
-50			23	82	18/0.1											
	-51.1	50.4														
-55			24	70	30/0.1											
	-56.1	55.4														
-60			25	19	26											
	-61.1	60.4														
			15	19	22											

NCDOT BORE DOUBLE BORINGS.GPJ NC_DOT.GDT 1/19/17

