

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	42324.1.1 B-5167	1	4

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

STRUCTURE
SUBSURFACE INVESTIGATION

CONTENTS

<u>SHEET</u>	<u>DESCRIPTION</u>
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PROJ. REFERENCE NO. 42324.1.1 B-5167 F.A. PROJ. BRSTP-2806(1)
COUNTY BUNCOMBE
PROJECT DESCRIPTION BRIDGE NO. 108 ON SR 2806
OVER UPPER FLAT CREEK

SITE DESCRIPTION _____

CAUTION NOTICE

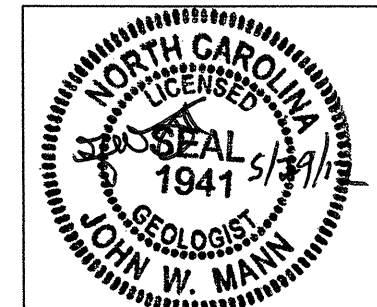
THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING, AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES, AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 250-4088. NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA ARE 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 THIS 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.

PERSONNEL
M.M. HAGER
G.K. ROSE
R.D. CHILDERS

INVESTIGATED BY J.W. MANN
CHECKED BY W.D. FRYE
SUBMITTED BY W.D. FRYE
DATE MAY 2012



PROJECT: 42324.1.1 ID: B-5167

DRAWN BY: J.W. MANN

NOTE - THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS BEING ACCURATE NOR IT IS CONSIDERED TO BE PART OF THE PLANS, SPECIFICATIONS, OR CONTRACT FOR THE PROJECT.

NOTE - 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.



NCDOT GEOTECHNICAL ENGINEERING UNIT

BORELOG REPORT

WBS 42324.1.1	TIP B-5167	COUNTY BUNCOMBE	GEOLOGIST Hager, M. M.
SITE DESCRIPTION Bridge No. 108 on SR 2806 over Upper Flat Creek			GROUND WTR (ft)
BOHRING NO. B-1	STATION 16+23	OFFSET 14 ft LT	ALIGNMENT -L-
COLLAR ELEV. 2,503.4 ft	TOTAL DEPTH 30.2 ft	NORTHING 664,253	EASTING 1,015,204
DRILL RIG/HAMMER EFF./DATE AFO0070 CME-550X 81% 09/03/2009		DRILL METHOD H.S. Augers	HAMMER TYPE Automatic
DRILLER Childers, R.	START DATE 04/05/10	COMP. DATE 04/05/10	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				
2505													GROUND SURFACE	0.0
													ROADWAY EMBANKMENT ABC & Pavement	1.5
													ROADWAY EMBANKMENT Silty SAND	3.0
2495	2,498.4	5.0	0	1	1								ALLUVIAL Brown SAND with silt	
2490	2,493.4	10.0	18	25	38								SAPROLITE Gray-brown silty SAND	9.8
2485	2,488.4	15.0	12	23	21									
2480	2,483.4	20.0	100/0.4										WEATHERED ROCK (gneiss)	20.0
2475	2,478.4	25.0	100/0.2											
	2,473.4	30.0	100/0.2										Boring Terminated at Elevation 2,473.2 ft In Weathered Rock (gneiss)	30.2

WBS 42324.1.1	TIP B-5167	COUNTY BUNCOMBE	GEOLOGIST Hager, M. M.
SITE DESCRIPTION Bridge No. 108 on SR 2806 over Upper Flat Creek			GROUND WTR (ft)
BOHRING NO. B-2	STATION 15+88	OFFSET 13 ft LT	ALIGNMENT -L-
COLLAR ELEV. 2,504.0 ft	TOTAL DEPTH 25.4 ft	NORTHING 664,246	EASTING 1,015,168
DRILL RIG/HAMMER EFF./DATE AFO0070 CME-550X 81% 09/03/2009		DRILL METHOD H.S. Augers	HAMMER TYPE Automatic
DRILLER Childers, R.	START DATE 04/05/10	COMP. DATE 04/05/10	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				
2505													GROUND SURFACE	0.0
													ROADWAY EMBANKMENT ABC & Pavement	0.8
													ROADWAY EMBANKMENT Silty SAND	3.5
2495	2,498.8	5.2	5	9	9								ALLUVIAL Brown-gray silt, sand & GRAVEL	
2490	2,493.8	10.2	7	13	17								SAPROLITE Gray-brown silty SAND	9.5
2485	2,488.8	15.2	16	43	57/0.4									
2480	2,483.8	20.2	100/0.4										WEATHERED ROCK (gneiss)	15.7
	2,478.8	25.2	100/0.2										Boring Terminated at Elevation 2,478.6 ft In Weathered Rock (gneiss)	25.4

NCDOT BORE DOUBLE B5167_GEO_BH_BUNCOMBE.GPJ NC_DOT_GDT 5/29/12