

REFERENCE: R-3830

PROJECT: 38887

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

**STRUCTURE
SUBSURFACE INVESTIGATION**

COUNTY LEE
PROJECT DESCRIPTION NC 42 FROM US 421 TO SR 1579
(MAIN STREET) IN SANFORD AND ALONG SR 1579
FROM NC 42 TO SR 1538 (E. HARRINGTON AVE.) IN
BROADWAY
SITE DESCRIPTION RETAINING WALL 2 ON -L- FROM
22 + 84.00 TO 27 + 70.00, RIGHT

CONTENTS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND (SOIL & ROCK)
3	SITE PLAN & PROFILE
4-8	BORE LOGS
9	SOIL TEST RESULTS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3830	1	9

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.

KLEINFELDER PERSONNEL	F&R PERSONNEL
<u>D. KUBINSKI</u>	<u>S. WOODS</u>
<u>E. ESTEP</u>	<u>S. DAVIS</u>
	<u>J. DAVIS</u>

INVESTIGATED BY F&R, Inc.
KLEINFELDER
DRAWN BY T.T. WALKER
CHECKED BY P. ALTON
SUBMITTED BY P. ALTON
DATE JANUARY 2018

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Patrick Alton 1/30/2018
A270EF78A6SIGNATURE DATE

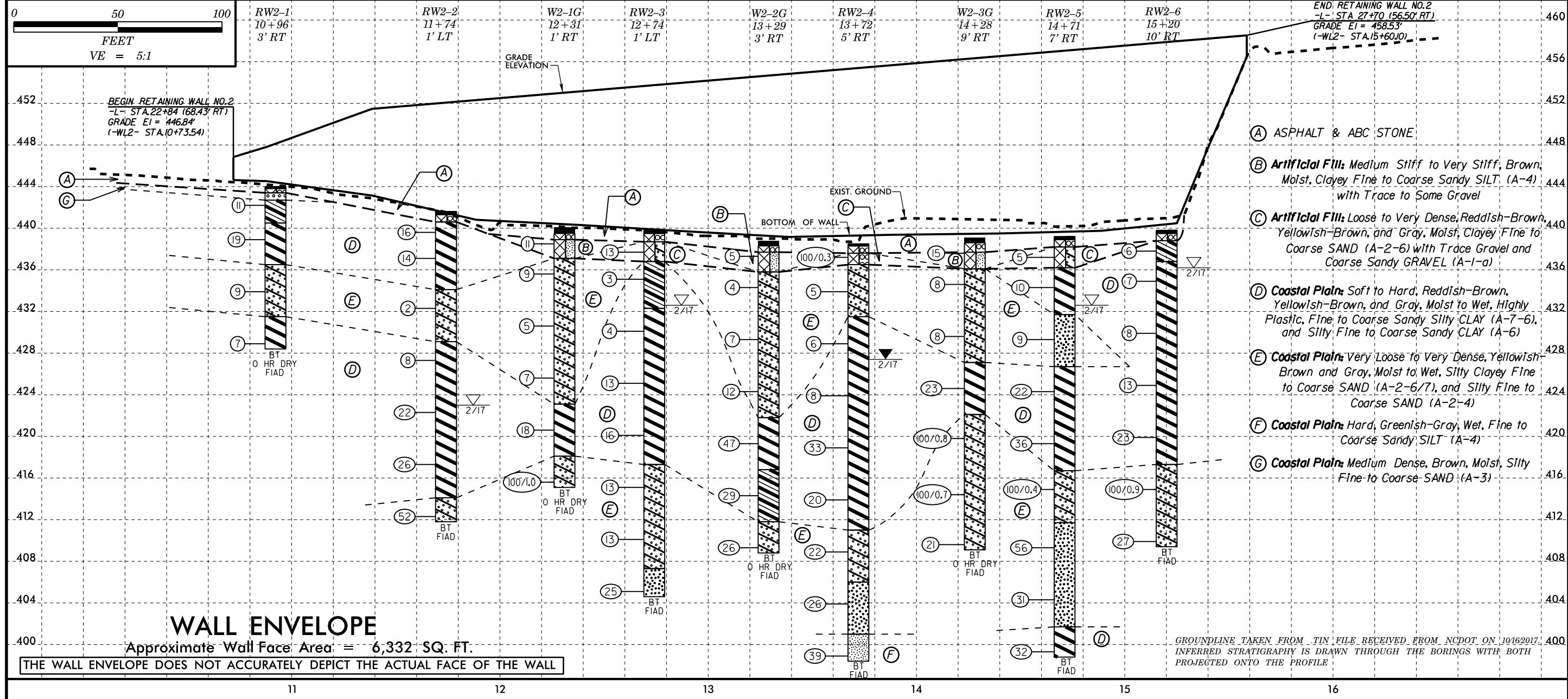
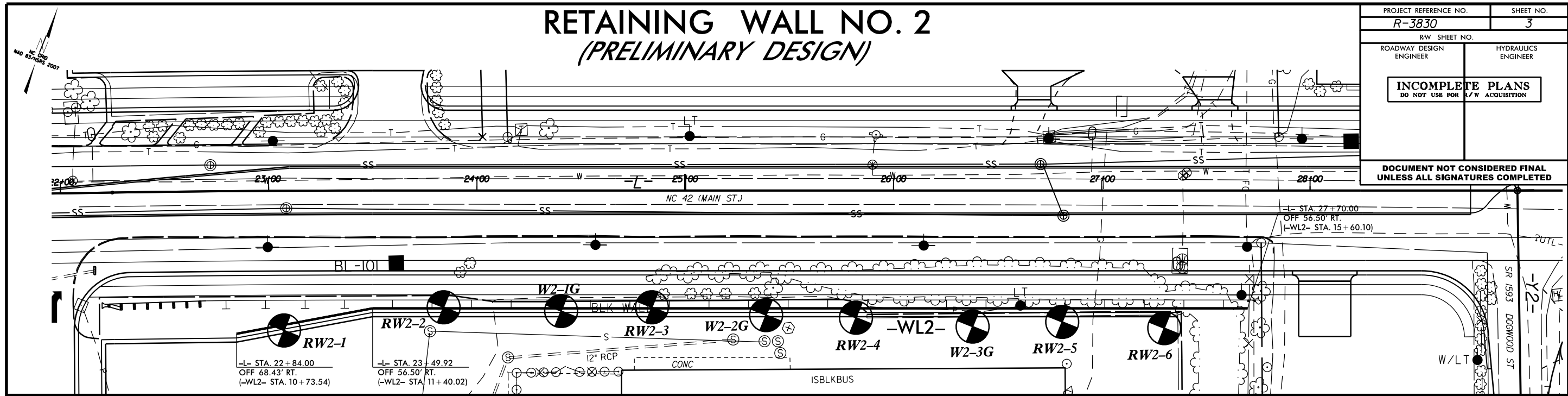
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UNLESS ALL SIGNATURES COMPLETED**

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

Table with 4 main columns: SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, and TERMS AND DEFINITIONS. Includes sub-sections like SOIL LEGEND AND AASHTO CLASSIFICATION, CONSISTENCY OR DENSENESS, TEXTURE OR GRAIN SIZE, SOIL MOISTURE - CORRELATION OF TERMS, PLASTICITY, and COLOR.

RETAINING WALL NO. 2 (PRELIMINARY DESIGN)

PROJECT REFERENCE NO. R-3830	SHEET NO. 3
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



GEOTECHNICAL BORING REPORT

BORE LOG

WBS 38887.1.1		TIP R-3830		COUNTY LEE		GEOLOGIST D. Kubinski										
SITE DESCRIPTION Retaining Wall 2 on -L- from 22+84.00 to 27+70.00, Right							GROUND WTR (ft)									
BORING NO. RW2-1		STATION 10+96		OFFSET 3 ft RT		ALIGNMENT -WL2-										
COLLAR ELEV. 444.0 ft		TOTAL DEPTH 15.6 ft		NORTHING 622,381		EASTING 1,957,098										
DRILL RIG/HAMMER EFF./DATE TRI8016 MOBILE B-57 90% 02/22/2016			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic										
DRILLER E. Estep		START DATE 02/20/17		COMP. DATE 02/20/17		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						
445	443.2	0.8	7	6	5									444.8	GROUND SURFACE	0.0
														443.4	ASPHALT	0.6
														442.7	ABC STONE	1.3
440	439.9	4.1	6	8	11									440.5	COASTAL PLAIN	3.5
															Brown, silty fine to coarse SAND (A-3)	
															Yellowish-brown, silty fine to coarse sandy CLAY (A-6)	
435	434.9	9.1	3	5	4									436.5	Reddish-brown, gray, yellowish-brown, highly plastic, fine to coarse sandy silty CLAY (A-7-6)	7.5
															Yellowish-brown, gray, silty clayey fine SAND (A-2-6)	
430	429.9	14.1	2	3	4									431.5	Yellowish-brown, gray, reddish-brown, highly plastic, fine to coarse sandy silty CLAY (A-7-6)	12.5
															Boring Terminated at Elevation 428.4 ft in CLAY (COASTAL PLAIN)	15.6

WBS 38887.1.1		TIP R-3830		COUNTY LEE		GEOLOGIST D. Kubinski											
SITE DESCRIPTION Retaining Wall 2 on -L- from 22+84.00 to 27+70.00, Right							GROUND WTR (ft)										
BORING NO. RW2-2		STATION 11+74		OFFSET 1 ft LT		ALIGNMENT -WL2-											
COLLAR ELEV. 441.6 ft		TOTAL DEPTH 29.8 ft		NORTHING 622,420		EASTING 1,957,165											
DRILL RIG/HAMMER EFF./DATE TRI8016 MOBILE B-57 90% 02/22/2016			DRILL METHOD Wash Boring			HAMMER TYPE Automatic											
DRILLER E. Estep		START DATE 02/20/17		COMP. DATE 02/21/17		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							
445															441.6	GROUND SURFACE	0.0
															440.6	ASPHALT	1.0
440	440.6	1.0	4	7	9										440.6	ABC STONE	1.0
																COASTAL PLAIN	
																Reddish-brown, gray, yellowish-brown, highly plastic, fine to coarse sandy silty CLAY (A-7-6)	
435	438.1	3.5	4	6	8										434.1	Gray & yellowish-brown, silty clayey fine SAND (A-2-6)	7.5
																Gray & yellowish-brown, highly plastic, fine to coarse sandy silty CLAY (A-7-6)	
430	433.3	8.3	1	1	1										429.1	Gray & yellowish-brown, highly plastic, fine to coarse sandy silty CLAY (A-7-6)	12.5
425	428.3	13.3	2	3	5										428.3	Gray & yellowish-brown, highly plastic, fine to coarse sandy silty CLAY (A-7-6)	13.3
420	423.3	18.3	5	8	14										423.3		18.3
415	418.3	23.3	7	11	15										418.3		23.3
	413.3	28.3	11	23	29										414.1	Gray, silty clayey fine to coarse SAND (A-2-6)	27.5
															411.8	Boring Terminated at Elevation 411.8 ft in SAND (COASTAL PLAIN)	29.8

NCDOT BORE DOUBLE R3830_GEO_BH_WALLS.GPJ NC_DOT.GDT 1/1/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 38887.1.1		TIP R-3830		COUNTY LEE		GEOLOGIST S. Woods											
SITE DESCRIPTION Retaining Wall 2 on -L- from 22+84.00 to 27+70.00, Right							GROUND WTR (ft)										
BORING NO. W2-1G		STATION 12+31		OFFSET 1 ft RT		ALIGNMENT -WL2-											
COLLAR ELEV. 440.1 ft		TOTAL DEPTH 25.0 ft		NORTHING 622,439		EASTING 1,957,218											
DRILL RIG/HAMMER EFF./DATE F&R2175 CME-55 88% 02/11/2017			DRILL METHOD H.S. Augers			HAMMER TYPE Automatic											
DRILLER S. Davis		START DATE 12/04/17		COMP. DATE 12/04/17		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)		
445																	
440	439.5	0.6	8	5	6											GROUND SURFACE 440.1 0.0	
435	436.6	3.5	3	4	5						SS-5	12%				ASPHALT 439.5 0.5	
430	431.6	8.5	3	2	3						SS-6	19%				ABC STONE 438.0 1.2	
425	426.6	13.5	3	4	3											ARTIFICIAL FILL 437.1 3.0	
420	421.6	18.5	5	7	11											Brown, clayey fine to coarse sandy SILT (A-4), with some gravel	
	416.6	23.5	23	43	57											COASTAL PLAIN 423.1 17.0	
																	White-gray, clayey fine to coarse SAND (A-2-7)
																	Boring Terminated at Elevation 415.1 ft in SAND (COASTAL PLAIN)
																	NOTES:
																	1) Boring Filled Immediately After Drilling (FIAD) due to location in parking lot

WBS 38887.1.1		TIP R-3830		COUNTY LEE		GEOLOGIST D. Kubinski											
SITE DESCRIPTION Retaining Wall 2 on -L- from 22+84.00 to 27+70.00, Right							GROUND WTR (ft)										
BORING NO. RW2-3		STATION 12+74		OFFSET 1 ft LT		ALIGNMENT -WL2-											
COLLAR ELEV. 439.8 ft		TOTAL DEPTH 35.2 ft		NORTHING 622,457		EASTING 1,957,257											
DRILL RIG/HAMMER EFF./DATE TRI8016 MOBILE B-57 90% 02/22/2016			DRILL METHOD Wash Boring			HAMMER TYPE Automatic											
DRILLER E. Estep		START DATE 02/21/17		COMP. DATE 02/21/17		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)		
440	438.7	1.1	6	7	6											GROUND SURFACE 439.8 0.0	
435	436.1	3.7	2	2	1											ASPHALT 439.5 0.3	
430	431.1	8.7	1	2	2											ABC STONE 438.7 1.1	
425	426.1	13.7	2	4	9											ARTIFICIAL FILL 436.8 3.0	
420	421.1	18.7	3	7	9											Reddish-brown, yellowish-brown, clayey fine to coarse SAND (A-2-6), with trace gravel	
415	416.1	23.7	3	5	8											COASTAL PLAIN 432.3 7.5	
410	411.1	28.7	5	5	8											Gray, yellowish-brown, fine to coarse sandy CLAY (A-6)	
405	406.1	33.7	6	11	14											Gray, yellowish-brown, reddish-brown, highly plastic, coarse to fine sandy silty CLAY (A-7-6)	
																	Boring Terminated at Elevation 404.6 ft in SAND (COASTAL PLAIN)

NCDOT BORE DOUBLE R3830_GEO_BH_WALLS.GPJ NC_DOT.GDT 1/1/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 38887.1.1		TIP R-3830		COUNTY LEE		GEOLOGIST S. Woods										
SITE DESCRIPTION Retaining Wall 2 on -L- from 22+84.00 to 27+70.00, Right							GROUND WTR (ft)									
BORING NO. W2-2G		STATION 13+29		OFFSET 3 ft RT		ALIGNMENT -WL2-										
COLLAR ELEV. 438.8 ft		TOTAL DEPTH 30.0 ft		NORTHING 622,474		EASTING 1,957,310										
DRILL RIG/HAMMER EFF./DATE F&R2175 CME-55 88% 02/11/2017				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER S. Davis		START DATE 12/04/17		COMP. DATE 12/04/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
440	438.3	0.5	7	2	3											
435	435.3	3.5	2	2	2											
430	430.3	8.5	2	3	4											
425	425.3	13.5	3	5	7											
420	420.3	18.5	5	14	33											
415	415.3	23.5	8	11	18											
410	410.3	28.5	8	11	15											
GROUND SURFACE 438.8 ASPHALT 438.3 ABC STONE 437.7 ARTIFICIAL FILL 435.8 Brown, clayey fine to coarse sandy SILT (A-4), with trace gravel COASTAL PLAIN White-gray, clayey fine to coarse SAND (A-2-7) 421.8 Brown-red, silty CLAY (A-7-6), with trace fine sand 416.8 Gray, fine to coarse sandy CLAY (A-6) 411.8 Gray, clayey fine to coarse SAND (A-2-6) 408.8 Boring Terminated at Elevation 408.8 ft in SAND (COASTAL PLAIN)																
NOTES: 1) Boring Filled Immediately After Drilling (FIAD) due to location in parking lot																

WBS 38887.1.1		TIP R-3830		COUNTY LEE		GEOLOGIST D. Kubinski										
SITE DESCRIPTION Retaining Wall 2 on -L- from 22+84.00 to 27+70.00, Right							GROUND WTR (ft)									
BORING NO. RW2-4		STATION 13+72		OFFSET 5 ft RT		ALIGNMENT -WL2-										
COLLAR ELEV. 438.5 ft		TOTAL DEPTH 40.1 ft		NORTHING 622,489		EASTING 1,957,351										
DRILL RIG/HAMMER EFF./DATE TRI8016 MOBILE B-57 90% 02/22/2016				DRILL METHOD Wash Boring		HAMMER TYPE Automatic										
DRILLER E. Estep		START DATE 02/21/17		COMP. DATE 02/21/17		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
440	437.5	1.0	100	0	3											
435	434.9	3.6	2	2	3											
430	429.9	8.6	2	3	3											
425	424.9	13.6	3	3	5											
420	419.9	18.6	6	12	21											
415	414.9	23.6	8	9	11											
410	409.9	28.6	6	11	11											
405	404.9	33.6	8	11	15											
400	399.9	38.6	8	17	22											
GROUND SURFACE 438.5 ASPHALT 437.6 ABC STONE 436.5 ARTIFICIAL FILL 431.5 Gray, coarse sandy GRAVEL (A-1-a) COASTAL PLAIN Yellowish-brown, silty clayey fine to coarse SAND (A-2-6) Yellowish-brown, gray, highly plastic, coarse to fine sandy silty CLAY (A-7-6) 411.0 Gray, silty clayey fine to coarse SAND (A-2-6) 406.0 Gray, silty fine to coarse SAND (A-2-4) 401.0 Greenish-gray, fine to coarse sandy SILT (A-4) Boring Terminated at Elevation 398.4 ft in SILT (COASTAL PLAIN)																

NCDOT BORE DOUBLE R3830_GEO_BH_WALLS.GPJ NC_DOT.GDT 1/23/18

GEOTECHNICAL BORING REPORT BORE LOG

WBS 38887.1.1	TIP R-3830	COUNTY LEE	GEOLOGIST D. Kubinski
SITE DESCRIPTION Retaining Wall 2 on -L- from 22+84.00 to 27+70.00, Right			GROUND WTR (ft)
BORING NO. RW2-6	STATION 15+20	OFFSET 10 ft RT	ALIGNMENT -WL2-
COLLAR ELEV. 439.8 ft	TOTAL DEPTH 30.4 ft	NORTHING 622,540	EASTING 1,957,490
DRILL RIG/HAMMER EFF/DATE TR18016 MOBILE B-57 90% 02/22/2016		DRILL METHOD Wash Boring	HAMMER TYPE Automatic
DRILLER E. Estep	START DATE 02/22/17	COMP. DATE 02/23/17	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							
440														439.8	0.0	GROUND SURFACE	
	438.8	1.0	5	3	3								M	439.5	0.3	ASPHALT	
	438.8													438.8	1.0	ABC STONE	
435	435.9	3.9	2	3	4								W	436.8	3.0	COASTAL PLAIN Gray, yellowish-brown, silty fine to coarse sandy CLAY (A-6)	
																Gray, yellowish-brown, highly plastic, coarse to fine sandy silty CLAY (A-7-6)	
430	430.9	8.9	5	4	4								W				
425	425.9	13.9	4	5	8								W				
420	420.9	18.9	8	10	13								W				
415	415.9	23.9	17	45	55/0.4								W	417.3	22.5	Gray, yellowish-brown, silty clayey SAND (A-2-6)	
410	410.9	28.9	9	11	16								W				
																	Boring Terminated at Elevation 409.4 ft in SAND (COASTAL PLAIN)

NCDOT BORE DOUBLE R3830_GEO_BH_WALLS.GPJ NC_DOT.GDT 1/11/18

**North Carolina Department of Transportation
Division of Highways
Materials and Test Unit
Soils Laboratory**

T.I.P. ID NO.: R-3830
DESCRIPTION: Retaining Wall 2 on -L- from 22+84.00 to 27+70.00, Right

REPORT ON SAMPLES OF: SOIL FOR QUALITY

WBS No.: 38887.1.1
DATE SAMPLED: 12/17
SAMPLED FROM: -WL2-
SUBMITTED BY: D. Racey

COUNTY: Lee
RECEIVED: 12/17
REPORTED: 12/17
BY: S. Alkhafaji
Certification No. 101-01-0603

PROJ. SAMPLE NO.	SS-5	SS-6	SS-7	SS-9										
BORING NO.	W2-1G	W2-1G	W2-1G	W2-2G										
Retained #4 Sieve %	29.0	0.0	0.0	0.0										
Passing #10 Sieve %	65.3	99.6	100.0	100.0										
Passing #40 Sieve %	52.4	70.5	99.8	93.2										
Passing #200 Sieve %	38.4	33.7	97.5	40.5										

SOIL MORTAR - 100%														
Coarse Sand Ret - #60 %	28.8	52.9	0.4	19.2										
Fine Sand Ret - #270 %	16.1	13.9	5.4	43.8										
Silt 0.053 - 0.010 mm %	19.9	0.0	27.3	7.0										
Clay < 0.010 mm %	35.2	33.4	66.9	30.0										
L.L.	34	48	58	37										
P.L.	NP	22	23	19										
P.I.	NP	26	35	18										
AASHTO Classification	A-4(0)	A-2-7(3)	A-7-6(38)	A-6(3)										
Station	12+31	12+31	12+31	13+29										
Offset	1' RT.	1' RT.	1' RT.	3' RT.										
Depth (ft)	1.2	3.5	18.5	23.5										
to	2.1	5.0	20.0	25.0										
Alignment	-WL2-	-WL2-	-WL2-	-WL2-										
Moisture Content (%)	11.6	18.7	22.3	17.6										
Organic Content (%)	NT	NT	NT	NT										

NP = Not plastic
NT = Not tested
ND = Not Determined
CL = Centerline

W.P. Alton, P.E.
Soils Engineer