REFERENCE: U-5875

PROJECT: 44677

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5875	1	63

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

ROADWAY SUBSURFACE INVESTIGATION

COUNTY *PITT*

PROJECT DESCRIPTION *ALLEN ROAD (SR 1203)*
ALLEN ROAD FROM STANTONSBURG RD
(SR 1467) TO DICKENSON AVE EXT (US 13)

PAVEMENT AND SUBGRADE INVESTIGATION

CONTENTS

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.

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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.

FIELD PERSONNEL

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INVESTIGATED BY *CG2, PLLC.*

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DATE *SEPTEMBER 2024*

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Matt Brewer, PE 10/08/2024
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SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-5875	2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION

SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE,
VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤ 35% PASSING #200)							SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1, A-2 A-3	A-4, A-5 A-6, A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5, A-7-6			
SYMBOL														
% PASSING #10 #40 #200	50 MX 30 MX 15 MX	50 MX 25 MX	51 MN 10 MX	35 MX	35 MX	35 MX	35 MX	36 MN	36 MN	36 MN	36 MN	GRANULAR SOILS	SILT-CLAY SOILS	MUCK, PEAT
MATERIAL PASSING #40 LL PI	— 6 MX		— NP	40 MX 10 MX	41 MN 10 MX	40 MX 11 MN	41 MN 11 MN	40 MX 10 MX	41 MN 10 MX	40 MX 11 MN	41 MN 11 MN	SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS
GROUP INDEX	0		0	0		4 MX		8 MX	12 MX	16 MX	NO MX			
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL, AND SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS				
GEN. RATING AS SUBGRADE	EXCELLENT TO GOOD							FAIR TO POOR				FAIR TO POOR	POOR	UNSUITABLE

PI OF A-7-5 SUBGROUP IS ≤ LL - 30 ; PI OF A-7-6 SUBGROUP IS > LL - 30

CONSISTENCY OR DENSENESS

PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF STANDARD PENETRATION RESISTENCE (N-VALUE)	RANGE OF UNCONFINED COMPRESSIVE STRENGTH ($TONS/FT^2$)
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	< 4 4 TO 10 10 TO 30 30 TO 50 > 50	N/A
GENERALLY SILT-CLAY MATERIAL (COHESIVE)	VERY SOFT SOFT MEDIUM STIFF STIFF VERY STIFF HARD	< 2 2 TO 4 4 TO 8 8 TO 15 15 TO 30 > 30	< 0.25 0.25 TO 0.5 0.5 TO 1.0 1 TO 2 2 TO 4 > 4

TEXTURE OR GRAIN SIZE

U.S. STD. SIEVE SIZE	4	10	40	60	200	270
OPENING (MM)	4.76	2.00	0.42	0.25	0.075	0.053

BOULDER (BLDR.)	COBBLE (COB.)	GRAVEL (GR.)	COARSE SAND (CSE. SD.)	FINE SAND (F SD.)	SILT (SL.)	CLAY (CL.)

GRAIN SIZE	MM	305	75	2.0	0.25	0.05	0.005
	IN.	12	3				

SOIL MOISTURE - CORRELATION OF TERMS

SOIL MOISTURE SCALE (ATTERBERG LIMITS)	FIELD MOISTURE DESCRIPTION	GUIDE FOR FIELD MOISTURE DESCRIPTION
	- SATURATED - (SAT.)	USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE
LL — LIQUID LIMIT		
PLASTIC RANGE (PI)	- WET - (W)	SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE
PL — PLASTIC LIMIT		
OM — OPTIMUM MOISTURE SL — SHRINKAGE LIMIT	- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE
	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE

PLASTICITY

	PLASTICITY INDEX (PI)	DRY STRENGTH
NON PLASTIC	0-5	VERY LOW
SLIGHTLY PLASTIC	6-15	SLIGHT
MODERATELY PLASTIC	16-25	MEDIUM
HIGHLY PLASTIC	26 OR MORE	HIGH

COLOR

DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY). MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.

GRADATION

WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.
UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE.
GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES.

ANGULARITY OF GRAINS

THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.

MINERALOGICAL COMPOSITION

MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.

COMPRESSIBILITY

SLIGHTLY COMPRESSIBLE	LL < 31
MODERATELY COMPRESSIBLE	LL = 31 - 50
HIGHLY COMPRESSIBLE	LL > 50

PERCENTAGE OF MATERIAL

ORGANIC MATERIAL	GRANULAR SOILS	SILT - CLAY SOILS	OTHER MATERIAL	
TRACE OF ORGANIC MATTER	2 - 3%	3 - 5%	TRACE	1 - 10%
LITTLE ORGANIC MATTER	3 - 5%	5 - 12%	LITTLE	10 - 20%
MODERATELY ORGANIC	5 - 10%	12 - 20%	SOME	20 - 35%
HIGHLY ORGANIC	> 10%	> 20%	HIGHLY	35% AND ABOVE

GROUND WATER

- WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING
- STATIC WATER LEVEL AFTER 24 HOURS
- PW — PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA
- SPRING OR SEEP

MISCELLANEOUS SYMBOLS

- ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION
- SOIL SYMBOL
- ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT
- INFERRED SOIL BOUNDARY
- INFERRED ROCK LINE
- ALLUVIAL SOIL BOUNDARY
- 25/025 — DIP & DIP DIRECTION OF ROCK STRUCTURES
- SPT, DPT, DMT, VST, PMT — TEST BORING
- AUGER BORING
- CORE BORING
- MW — MONITORING WELL
- PIEZOMETER INSTALLATION
- SLOPE INDICATOR INSTALLATION
- CONE PENETROMETER TEST
- SOUNDING ROD
- TEST BORING WITH CORE
- SPT N-VALUE

RECOMMENDATION SYMBOLS

- UNDERCUT
- SHALLOW UNDERCUT
- UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE
- UNCLASSIFIED EXCAVATION - ACCEPTABLE DEGRADABLE ROCK
- UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN THE TOP 3 FEET OF EMBANKMENT OR BACKFILL

ABBREVIATIONS

AR - AUGER REFUSAL
BT - BORING TERMINATED
CL. - CLAY
CPT - CONE PENETRATION TEST
CSE. - COARSE
DMT - DILATOMETER TEST
DPT - DYNAMIC PENETRATION TEST
e - VOID RATIO
F - FINE
FOSS. - FOSSILIFEROUS
FRAC. - FRACTURED, FRACTURES
FRAGS. - FRAGMENTS
HI. - HIGHLY
MED. - MEDIUM
MICA. - MICACEOUS
MOD. - MODERATELY
NP - NON PLASTIC
ORG. - ORGANIC
PMT - PRESSUREMETER TEST
SAP. - SAPROLITIC
SD. - SAND, SANDY
SL. - SILT, SILTY
SLI. - SLIGHTLY
TCR - TRICONE REFUSAL
w - MOISTURE CONTENT
V - VERY
VST - VANE SHEAR TEST
WEA. - WEATHERED
γ - UNIT WEIGHT
γ_d - DRY UNIT WEIGHT

SAMPLE ABBREVIATIONS

S - BULK
SS - SPLIT SPOON
ST - SHELBY TUBE
RS - ROCK
RT - RECOMPACTED TRIAXIAL
CBR - CALIFORNIA BEARING RATIO

EQUIPMENT USED ON SUBJECT PROJECT

DRILL UNITS:
- [ ] CME-45C
- [ ] CME-55
- [ ] CME-550X
- [ ] VANE SHEAR TEST
- [ ] PORTABLE HOIST
- [X] MOBILE B-29
- [ ] _____

ADVANCING TOOLS:
- [ ] CLAY BITS
- [ ] 6" CONTINUOUS FLIGHT AUGER
- [X] 4" SOLID STEM AUGERS
- [ ] HARD FACED FINGER BITS
- [ ] TUNG.-CARBIDE INSERTS
- [ ] CASING [ ] W/ ADVANCER
- [ ] TRICONE _____" STEEL TEETH
- [ ] TRICONE _____" TUNG.-CARB.
- [X] CORE BIT (4-INCH DIAMETER)
- [ ] _____

HAMMER TYPE:
- [ ] AUTOMATIC [ ] MANUAL

CORE SIZE:
- [ ] -B _____ [ ] -H _____
- [ ] -N _____

HAND TOOLS:
- [ ] POST HOLE DIGGER
- [ ] HAND AUGER
- [ ] SOUNDING ROD
- [ ] VANE SHEAR TEST
- [X] DUAL MASS DCP

ROCK DESCRIPTION

HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED. AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS IN NON-COASTAL PLAIN MATERIAL, THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK.
ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:

WEATHERED ROCK (WR)	NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.
CRYSTALLINE ROCK (CR)	FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT WOULD YIELD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE, GNEISS, GABBRO, SCHIST, ETC.
NON-CRYSTALLINE ROCK (NCR)	FINE TO COARSE GRAIN METAMORPHIC AND NON-COASTAL PLAIN SEDIMENTARY ROCK THAT WOULD YEILD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES PHYLLITE, SLATE, SANDSTONE, ETC.
COASTAL PLAIN SEDIMENTARY ROCK (CP)	COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED SHELL BEDS, ETC.

WEATHERING

FRESH	ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.
VERY SLIGHT (V SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN, CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.
SLIGHT (SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.
MODERATE (MOD.)	SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED WITH FRESH ROCK.
MODERATELY SEVERE (MOD. SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES "CLUNK" SOUND WHEN STRUCK. *IF TESTED, WOULD YIELD SPT REFUSAL*
SEVERE (SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN. *IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF*
VERY SEVERE (V SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR VESTIGES OF ORIGINAL ROCK FABRIC REMAIN. *IF TESTED, WOULD YIELD SPT N VALUES < 100 BPF*
COMPLETE	ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS ALSO AN EXAMPLE.

ROCK HARDNESS

VERY HARD	CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.
HARD	CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED TO DETACH HAND SPECIMEN.
MODERATELY HARD	CAN BE SCRATCHED BY KNIFE OR PICK. GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED BY MODERATE BLOWS.
MEDIUM HARD	CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. CAN BE EXCAVATED IN SMALL CHIPS TO PEICES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK.
SOFT	CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN PIECES CAN BE BROKEN BY FINGER PRESSURE.
VERY SOFT	CAN BE CARVED WITH KNIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK. PIECES 1 INCH OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY FINGERNAIL.

FRACTURE SPACING

TERM	SPACING
VERY WIDE	MORE THAN 10 FEET
WIDE	3 TO 10 FEET
MODERATELY CLOSE	1 TO 3 FEET
CLOSE	0.16 TO 1 FOOT
VERY CLOSE	LESS THAN 0.16 FEET

BEDDING

TERM	THICKNESS
VERY THICKLY BEDDED	4 FEET
THICKLY BEDDED	1.5 - 4 FEET
THINLY BEDDED	0.16 - 1.5 FEET
VERY THINLY BEDDED	0.03 - 0.16 FEET
THICKLY LAMINATED	0.008 - 0.03 FEET
THINLY LAMINATED	< 0.008 FEET

INDURATION

FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.

FRIABLE	RUBBING WITH FINGER FREES NUMEROUS GRAINS; GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE.
MODERATELY INDURATED	GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.
INDURATED	GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; DIFFICULT TO BREAK WITH HAMMER.
EXTREMELY INDURATED	SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE; SAMPLE BREAKS ACROSS GRAINS.

TERMS AND DEFINITIONS

ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.

AQUIFER - A WATER BEARING FORMATION OR STRATA.

ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.

ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC.

ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.

CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.

COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.

CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.

DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.

DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.

DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.

FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.

FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.

FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.

FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.

FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.

JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.

LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.

LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.

MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.

PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.

RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.

ROCK QUALITY DESIGNATION (RQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.

SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.

SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.

SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.

STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.

STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.

STRATA ROCK QUALITY DESIGNATION (SRQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.

TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.

BENCH MARK: N/A

ELEVATION: FEET

NOTES:

ROADWAY DESIGN FILES PROVIDED BY NCDOT

- PAVEMENT CORE WITH DCP
- BULK SAMPLE

DATE: 8-15-14

PROJECT REFERENCE NO.	SHEET NO.
U–5875	2A

Tip No. U-5875| WBS No. 44677.3.1| Pitt County

ABBREVIATIONS

RT LN = Right Lane
LT LN = Left Lane
OSL = Outside Lane
ISL = Inside Lane
OSML = Outside Mid-Lane
ISML = Inside Mid-Lane
PS = Paved Shoulder
LTL = Left Turn Lane
RTL = Right Turn Lane
MID = Middle Lane
CTL = Center Turn Lane
ISWP = Inside Wheel Path
OSWP = Outside Wheel Path
PS = Paved Shoulder
FW = From White Line
FY = From Yellow Line
RT = Right
LT = Left
(I) = Inside
(O) = Outside
BOC = Back of Curb
C&G = Curb and Gutter
EOP = Edge of Pavement
FR = From
DB = Decorative Brick
SA = Sand Asphalt

CR = Crown
S = Super
C = Cut
F = Fill
DCP = Dynamic Cone Penetrometer
M = Moist
W = Wet
N/A = Not Observed
NSR = No Sample Recovered
S- = Soil Grab Sample
Ref- = Soil Reference Sample
SS- = Split Spoon Sample
RE = Roadway Embankment
F. = Fine
Cse. = Coarse
ABC = Aggregate Base Course
STBC = Soil Type Base Course
CSS = Cement Stabilized Subgrade
SG = Subgrade
AF= Artificial Fill
FDR = Full Depth Reclamation
HP = Highly Plastic
MP = Moderately Plastic
SAA = Same as Above
UDCP = Undivided Coastal Plain Soil
FEA = Flattened & Elongated Aggregate

DATE: 8-15-14

PROJECT REFERENCE NO.	SHEET NO.
U–5875	3

THIS SHEET LEFT INTENTIONALLY BLANK AS A PLACEHOLDER UNTIL A ROADWAY TITLESHEET BECOMES AVAILABLE

PROJECT REFERENCE NO.	SHEET NO.
U-5875	4

0 50 100
FEET

NAD 83, NA 2011 NC GRID

C-3 -L- STA. 17+52 RTL (RT) 9.0 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	8.50 in
ABC	8.50 in

C-35 -Y- STA. 21+59 RT OSL 7.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	5.75 in
ABC	13.25 in

C-1 -L- STA. 15+20 LT OSL 1.4 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	5.75 in
ABC	9.00 in

C-2 -L- STA. 15+67 RT OSL 1.7 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	5.75 in
ABC	9.00 in

C-38 -Y- STA. 25+55 RT LN 0.6 FT LT FW	
PAVEMENT SECTION	
ASPHALT	13.25 in

C-36 -Y- STA. 25+55 LT LN (O) 1.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	12.50 in

C-37 -Y- STA. 25+55 LT LN (I) 4.5 FT LT FW	
PAVEMENT SECTION	
ASPHALT	11.00 in

C-3 RTL (RT)
C-35 RT OSL
C-1 LT OSL
C-2 RT OSL
15+00 -L-
25+00 -Y-
C-36 LT LN (O)
C-37 LT LN (I)
C-38 RT LN

PROJECT REFERENCE NO.	SHEET NO.
U-5875	5

0 50 100
FEET

NC GRID
NAD 83 NA 2011

-Y- 15+00

-L- PCC Sta. 23+68.70

C-32 -Y- STA. 16+95 LT OSL 3.6 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	5.00 in

C-33 -Y- STA. 16+95 CTL 6.6 FT LT FY (FR LT LN)	
PAVEMENT SECTION	
ASPHALT	8.75 in
BRICK	3.50 in
CONCRETE	4.75 in

C-34 -Y- STA. 16+95 RT OSL/RTL 2.6 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	6.25 in
ABC	8.75 in

C-4 -L- STA. 20+52 RTL (LT) 2.2 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	5.00 in
ABC	6.00 in

C-33 CTL
C-32 LT OSL
C-34 RT OSL/RTL
C-4 RTL (LT)
BULK-1
20+00
-L-
-Y-
POC Sta. 18+91.90=
POT Sta. 19+94.30

PROJECT REFERENCE NO.	SHEET NO.
U-5875	6

0 50 100
FEET

NAD 83 NA 2011 NC GRID

C-6 -L- STA. 31+53 LT LN 0.8 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.25 in
ABC	8.25 in

C-7 -L- STA. 31+53 CTL 15.5 FT LT FW	
PAVEMENT SECTION	
ASPHALT	10.00 in

C-8 -L- STA. 31+53 RT LN 0.6 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.25 in
ABC	9.25 in

C-5 -L- STA. 26+16 RTL (LT) 0.8 FT LT FW	
PAVEMENT SECTION	
ASPHALT	10.75 in
UTILITY PRESENT	

C-6 LT LN
C-7 CTL
C-8 RT LN
C-5 RTL (LT)
25+00
30+00
-L-

PROJECT REFERENCE NO.	SHEET NO.
U-5875	7

0 50 100
FEET

NC GRID NAD 83 NA 20

-Y1- PT Sta. 12+20.03

-Y1-

13+00

C-9 -L- STA. 37+33 RTL (LT) 1.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.00 in
UTILITY PRESENT	

C-9 RTL (LT)

40+00

35+00

-L-

-L- POC Sta. 36+13.68
-Y1- POT Sta. 14+67.25

PROJECT REFERENCE NO.	SHEET NO.
U-5875	8

0 50 100
FEET

-Y2- POT Sta. 10+00.00

-L- PT Sta. 42+92.46

10+00

-Y2-

NAD 83 NA 2011 NC GRID

N

C-10 -L- STA. 43+76 LT PS 0.3 FT RT FW	
PAVEMENT SECTION	
ASPHALT	5.25 in
ABC	13.75 in

40+00

C-10 LT PS

C-11 RT PS

45+00

-L-

C-11 -L- STA. 43+76 RT PS 0.5 FT RT FW	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	11.00 in

-L- POT Sta. 45+40.32=
-Y2- POT Sta. 12+52.06

PROJECT REFERENCE NO.	SHEET NO.
U-5875	9

0 50 100
FEET

NAD 83 NC GRID ZONE

C-12 -L- STA. 56+23 LT LN 1.2 FT LT FW	
PAVEMENT SECTION	
ASPHALT	4.75 in
ABC	9.25 in
C-13 -L- STA. 56+23 CTL 16.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.25 in

C-14 -L- STA. 56+23 RT LN 1.3 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.00 in
ABC	7.00 in

-L- PC Sta. 59+49.18

55+00

60+00

C-12 LT LN
C-13 CTL
C-14 RT LN

-L-

BULK-2

PROJECT REFERENCE NO.	SHEET NO.
U-5875	10

0 50 100
FEET

NAD 83 NC GRID

C-15 -L- STA. 75+87 LT PS 2.8 FT RT FW		C-16 -L- STA. 75+87 LT LN 3.0 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	9.50 in	ASPHALT	7.75 in

C-17 -L- STA. 75+87 CTL 16.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	12.75 in

C-18 -L- STA. 75+87 RT LN 1.8 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.50 in
ABC	13.50 in

C-19 -L- STA. 75+87 RT PS 2.2 FT RT FW	
PAVEMENT SECTION	
ASPHALT	6.25 in
ABC	14.75 in

-L- PC Sta. 76+55.32

75+00

80+00

C-15 LT PS
C-16 LT LN
C-17 CTL
C-18 RT LN
C-19 RT PS

PROJECT REFERENCE NO.	SHEET NO.
U-5875	11

0 50 100
FEET

NAD 83 NC GRID

C-20 -L- STA. 84+66 RTL (RT) 1.2 FT LT FW	
PAVEMENT SECTION	
ASPHALT	4.50 in
ABC	4.50 in
UTILITY PRESENT	

PROJECT REFERENCE NO.	SHEET NO.
U-5875	12

0 50 100
FEET

NAD 83 NC GRID

-L- PC Sta. 95+24.65

95+00

BULK-3

C-21 -L- STA. 97+01 LT PS 2.3 FT RT FW	
PAVEMENT SECTION	
ASPHALT	8.25 in

C-21 LT PS

C-22 -L- STA. 97+01 RT PS 1.5 FT RT FW	
PAVEMENT SECTION	
ASPHALT	5.50 in
ABC	10.00 in

C-22 RT PS

-L- PT Sta. 100+52.79

100+00

PROJECT REFERENCE NO.	SHEET NO.
U-5875	13

0 50 100
FEET

NAD 83 NA 2001
NC GRID

-L- PT Sta. 115+38.70

C-23 -L- STA. 116+86 RTL (LT) 1.1 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.25 in
ABC	9.75 in

C-23 RTL (LT)

115+00

120+00

-L-

PROJECT REFERENCE NO.	SHEET NO.
U-5875	14

0 50 100
FEET

NAD 83 NA 2011 NC GRID

C-24 -L- STA. 121+86 LT LN 0.6 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.75 in
ABC	8.25 in

C-25 -L- STA. 121+86 CTL 16.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	9.75 in
UTILITY PRESENT	

C-26 -L- STA. 121+86 RT LN 0.6 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.75 in
ABC	6.75 in

C-27 -L- STA. 125+29 RTL (LT) 0.7 FT LT FW	
PAVEMENT SECTION	
ASPHALT	8.00 in

-L- PC Sta. 124+66.83

C-24 LT LN
C-25 CTL
C-26 RT LN

C-27 RTL (LT)

125+00

PROJECT REFERENCE NO.	SHEET NO.
U-5875	15

0 50 100
FEET

NC GRID NAD 83 NA 2011

-L- PT Sta. 128+47.64

BULK-4

130+00

-L-

135+00

PROJECT REFERENCE NO.	SHEET NO.
U-5875	16

0 50 100
FEET

C-40 -Y8- STA. 12+96 LTL (RT) 6.5 FT RT FY	
PAVEMENT SECTION	
ASPHALT	5.50 in
ABC	9.50 in

C-41 -Y8- STA. 13+10 RT ISL 16.5 FT RT FY	
PAVEMENT SECTION	
ASPHALT	5.50 in
ABC	YES
UTILITY PRESENT	

C-42 -Y8- STA. 12+96 RT OSL 14.8 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	4.75 in
ABC	10.25 in

C-43 -Y8- STA. 12+96 RTL (RT) 5.5 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	10.25 in

C-28 -L- STA. 137+61 LT LN 5.3 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	3.50 in
ABC	8.50 in

C-29 -L- STA. 137+61 LTL (I) 31.1 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	7.00 in

C-30 -L- STA. 137+61 RT LN 19.0 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	3.50 in
ABC	7.50 in

C-31 -L- STA. 137+61 RTL (RT) 1.4 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	3.00 in
ABC	8.00 in

C-44 -Y8- STA. 16+99 LT OSL 2.6 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	4.75 in
ABC	8.25 in

C-45 -Y8- STA. 16+99 LT ISL 18.0 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	5.25 in
ABC	7.75 in

C-43 RTL (RT)
C-42 RT OSL
C-41 RT ISL
C-40 LTL (RT)
C-28 LT LN
C-29 LTL (I)
C-30 RT LN
C-31 RTL (RT)
C-45 LT ISL
C-44 LT OSL
-L- 138+00
-L2- 10+00
-Y8- 15+00
-L2- PC Sta. 11+98.39
-Y8- POT Sta. 14+63.10=
-L2- POT Sta. 10+00.00
-L- POT Sta. 139+78.99=
-Y8- POT Sta. 14+82.78
NAD 83 NC GRID NA 2011
N

PROJECT REFERENCE NO.	SHEET NO.
U-5875	17

0 50 100
FEET

NC_Grid
NAD 83

-Y8- POT Sta. 10+00.00

10+00

-Y8-

C-39 LT OSL

C-39 -Y8- STA. 10+96 LT OSL 1.6 FT LT FW	
PAVEMENT SECTION	
ASPHALT	5.00 in
ABC	8.50 in

PROJECT REFERENCE NO.	SHEET NO.
U-5875	18

0 50 100
FEET

NAD 83 NC GRID NA 2011

C-46 -Y8- STA. 22+73 RT OSL 2.5 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	5.25 in
ABC	7.25 in

20+00

C-46 RT OSL

-Y8-

25+00

-Y8- PC Sta. 24+32.62

PAVEMENT INVESTIGATION DATA SHEET

Project:	44677.3.1
TIP:	U-5875

Route:	Allen Road (SR 1203) Allen Road from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
County:	Pitt

Date Performed:	8/19 thru 8/21 (2 Nights)
Field Personnel:	T. Wenner, CG2 Exploration

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade						GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting
C-1 -L- Sta. 15+20 LT OSL	4.0 Fill	14.0	3.0 Concrete Curb & Gutter	1.4 LT EOP	Cr	14.75	5.75	9.00			Asphalt ABC SG	1.2-4.0: RE - Gray-Tan, Silty Fine to Coarse SAND 4.0-5.0: UDCP - Gray-Tan, Fine Sandy SILT	S-1 Ref-6	A-2-4 A-4	M M	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking, Wash boarding (RT & LT ISL)	668,472	2,466,805
C-2 -L- Sta. 15+67 RT OSL	5.0 Fill	14.0	3.0 Concrete Curb & Gutter	1.7 LT EOP	Cr	14.75	5.75	9.00			Asphalt ABC SG	1.2-5.0: RE - Gray, Silty Fine to Coarse SAND	S-2	A-2-4	M	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking, Wash boarding (RT & LT ISL) **1.25 Inch Top Down Crack in Core**	668,543	2,466,770
C-3 -L- Sta. 17+52 RTL (RT)	At Grade	15.0	3.0 Concrete Curb & Gutter	9.0 LT EOP	Cr	17.00	8.50	8.50			Asphalt ABC SG	1.4-5.0: UDCP - Gray, Fine Sandy SILT, organic odor, saturated at 3.5 feet	S-3	A-4(0)	M-S	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking	668,593	2,466,599
C-4 -L- Sta. 20+52 RTL (LT)	3.5 Fill	10.0	3.0 PS & 3.0 Concrete Curb & Gutter	2.2 LT EOP	Cr	11.00	5.00	6.00			Asphalt ABC SG	0.9-3.5: RE - Silty Fine to Coarse SAND 3.5-5.0: UDCP - Gray-Tan, Fine Sandy SILT	S-4 Ref-6	A-2-4 A-4	M M	5.0	Moderate to High Severity Longitudinal and Transverse Cracking **2 Inch Top Down Crack in Core**	668,682	2,466,308
C-5 -L- Sta. 26+16 RTL (LT)	At Grade	13.0	3.0 Concrete Curb & Gutter	0.8 LT FW	Cr	10.75	10.75				Asphalt SG	UDCP - Gray-Tan, Fine Sandy SILT DCP not performed to full depth, no auger performed due to utility	Ref-6	A-4	M	-	No Distress Observed	669,131	2,465,950
C-6 -L- Sta. 31+53 LT LN	At Grade	10.0	1.0 PS	0.8 LT FW	Cr	14.50	6.25	8.25			Asphalt ABC SG	1.2-5.0: UDCP - Gray-Tan, Fine to Coarse Sandy CLAY	S-6	A-4(0)	M	5.0	Low to Moderate Severity Transverse Cracking **4.5 Inch Top Down Crack in Core**	669,641	2,465,760
C-7 -L- Sta. 31+53 CTL	At Grade	12.0	-	15.5 LT FW	Cr	10.00	10.00				Asphalt SG	0.8-5.0: UDCP - Gray, Fine Sandy SILT, organic odor and staining	S-7	A-4(0)	W	5.0	Low to Moderate Severity Transverse Cracking **8.0 Inch Top Down Crack in Core, Asphalt Thickness Measured from Borehole**	669,645	2,465,774
C-8 -L- Sta. 31+53 RT LN	At Grade	10.0	1.0 PS	0.6 LT FW	Cr	15.50	6.25	9.25			Asphalt ABC SG	1.3-5.0: UDCP - Tan-Gray, Fine Sandy CLAY	S-8	A-6(2)	M	5.0	No Distress Observed	669,649	2,465,789
C-9 -L- Sta. 37+33 RTL (LT)	At Grade	12.0	-	1.0 LT FW	Cr	6.00	6.00				Asphalt SG	UDCP, Gray-Tan, Fine Sandy SILT DCP not performed to full depth, no auger performed due to utility	Ref-10	A-4	M	-	No Distress Observed	670,215	2,465,641
C-10 -L- Sta. 43+76 LT PS	At Grade	10.0	1.0 PS	0.3 RT FW	Cr	19.00	5.25	13.75			Asphalt ABC SG	1.6-5.0: UDCP, Gray-Tan, Fine Sandy SILT	S-10	A-4(0)	M	5.0	No Distress Observed	670,867	2,465,671
C-11 -L- Sta. 43+76 RT PS	At Grade	10.0	1.0 PS	0.5 RT FW	Cr	18.00	7.00	11.00			Asphalt ABC SG	1.5-5.0: UDCP - Gray-Tan, Fine Sandy SILT	Ref-10	A-4	M	5.0	No Distress Observed	670,863	2,465,703
C-12 -L- Sta. 56+23 LT LN	At Grade	10.0	1.0 PS	1.2 LT FW	Cr	14.00	4.75	9.25			Asphalt ABC SG	1.2-5.0: UDCP - Gray-Tan, Fine to Coarse Sandy CLAY	Ref-14	A-6	M	5.0	Low Severity Transverse Cracking **2.75 Inch Bottom Up Crack in Core**	672,104	2,465,826
C-13 -L- Sta. 56+23 CTL	1.5 Fill	12.0	-	16.0 LT FW	Cr	6.25	6.25				Asphalt SG	0.5-1.5: RE - Tan, Silty Fine SAND 1.5-5.0: UDCP - Gray-Tan, Fine to Coarse Sandy CLAY	S-13 Ref-14	A-2-4 A-6	M M	5.0	No Distress Observed	672,102	2,465,841
C-14 -L- Sta. 56+23 RT LN	At Grade	10.0	1.0 PS	1.3 LT FW	Cr	13.00	6.00	7.00			Asphalt ABC SG	1.1-5.0: UDCP, Gray-Tan, Fine to Coarse Sandy CLAY	S-14	A-6(2)	M	5.0	No Distress Observed	672,100	2,465,855
C-15 -L- Sta. 75+87 LT PS	2.0 Fill	10.0	5.0 PS	2.8 RT FW	Cr	9.50	9.50				Asphalt SG	0.8-2.0: RE - Gray-Tan, Silty Fine SAND 2.0-5.0: UDCP - Gray-Tan, Fine to Coarse Sandy CLAY	Ref-13 Ref-14	A-2-4 A-6	M M	5.0	No Distress Observed	673,889	2,466,601

Notes:
Offset Distance: Left and Right Relative to the Direction of Travel
CTL Offset Distance Measured from RT LN White Line Unless Noted Otherwise

Prepared by: CTW
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	44677.3.1
TIP:	U-5875

Route:	Allen Road (SR 1203) Allen Road from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
County:	Pitt

Date Performed:	8/19 thru 8/21 (2 Nights)
Field Personnel:	T. Wenner, CG2 Exploration

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade						GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting
C-16 -L- Sta. 75+87 LT LN	1.9 Fill	10.0	5.0 PS	3.0 LT FW	Cr	7.75	7.75				Asphalt SG	0.7-1.9: RE - Gray-Tan, Silty Fine SAND 1.9-5.0: UDCP - Gray-Tan, Fine to Coarse Sandy CLAY	Ref-13 Ref-14	A-2-4 A-6	M M	5.0	No Distress Observed **2.5 Inch Bottom Up Crack in Core**	673,885	2,466,606
C-17 -L- Sta. 75+87 CTL	2.5 Fill	12.0	-	16.0 LT FW	Cr	12.75	12.75				Asphalt SG	1.1-2.5: RE - Gray-Tan, Silty Fine SAND 2.5-5.0: UDCP - Gray-Tan, Fine Sandy CLAY	Ref-13 Ref-18	A-2-4 A-6	M M	5.0	No Distress Observed	673,879	2,466,616
C-18 -L- Sta. 75+87 RT LN	2.0 Cut	10.0	4.0 PS	1.8 LT FW	Cr	20.00	6.50	13.50			Asphalt ABC SG	1.7-5.0: UDCP - Gray-Tan, Fine Sandy CLAY **Water in Borehole at 4.0 feet**	S-18	A-6(3)	M	5.0	Low Severity Transverse Cracking	673,871	2,466,628
C-19 -L- Sta. 75+87 RT PS	2.0 Cut	10.0	4.0 PS	2.2 RT FW	Cr	21.00	6.25	14.75			Asphalt ABC SG	1.8-5.0: UDCP - Gray-Tan, Fine Sandy CLAY	Ref-18	A-6	M	5.0	Low Severity Transverse Cracking	673,869	2,466,631
C-20 -L- Sta. 84+66 RTL (RT)	1.0 Cut	14.0	-	1.2 LT FW	Cr	9.00	4.50	4.50			Asphalt ABC SG	0.8-2.0: UDCP - Tan, Fine Sandy SILT DCP & Auger not performed to full depth due to utility	S-20	A-4(0)	M	2.0	No Distress Observed	674,615	2,467,097
C-21 -L- Sta. 97+01 LT PS	2.3 Fill	10.0	4.0 PS	2.3 RT FW	Cr	8.25	8.25				Asphalt SG	0.7-2.3: RE - Gray-Tan, Silty Fine SAND 2.3-5.0: UDCP, Gray-Tan, Fine Sandy SILT	Ref-13 Ref-22	A-2-4 A-4	M M	5.0	No Distress Observed	675,716	2,467,662
C-22 -L- Sta. 97+01 RT PS	At Grade	10.0	4.0 PS	1.5 RT FW	Cr	15.50	5.50	10.00			Asphalt ABC SG	1.3-5.0: UDCP - Gray-Tan, Fine Sandy SILT	S-22	A-4(0)	M	5.0	No Distress Observed	675,696	2,467,691
C-23 -L- Sta. 116+86 RTL (LT)	At Grade	10.0	1.0 PS	1.1 LT FW	Cr	16.00	6.25	9.75			Asphalt ABC SG	1.3-5.0: UDCP - Gray-Tan, Silty Fine to Coarse SAND	S-23	A-2-4	M	5.0	No Distress Observed	677,283	2,468,831
C-24 -L- Sta. 121+86 LT LN	1.8 Fill	10.0	1.0 PS	0.6 LT FW	Cr	15.00	6.75	8.25			Asphalt ABC SG	1.3-1.8: RE - Tan, Fine to Coarse Sandy SILT 1.8-5.0: UDCP - Gray-Tan, Fine Sandy SILT	Ref-25 Ref-22	A-4 A-4	M M	5.0	No Distress Observed **2.0 Inch Bottom Up Crack in Core**	677,745	2,469,022
C-25 -L- Sta. 121+86 CTL	1.5 Fill	11.0	-	16.0 LT FW	Cr	9.75	9.75				Asphalt SG	0.8-1.5: RE - Tan-Gray, Fine to Coarse Sandy SILT 1.5-2.0: UDCP - Gray-Tan, Fine Sandy SILT DCP & Auger not performed to full depth due to utility	S-25 Ref-22	A-4(0) A-4	M	2.0	No Distress Observed **3.5 Inch Bottom Up Crack in Core**	677,740	2,469,036
C-26 -L- Sta. 121+86 RT LN	2.0 Fill	10.0	1.0 PS	0.6 LT FW	Cr	14.50	7.75	6.75			Asphalt ABC SG	1.2-2.0: RE - Tan-Gray, Silty Fine to Coarse SAND 2.0-5.0: UDCP - Gray-Tan, Fine Sandy SILT	S-26 Ref-22	A-2-4 A-4	M M	5.0	No Distress Observed **3.5 Inch Bottom Up Crack in Core, Asphalt Thickness Measured from Borehole**	677,734	2,469,050
C-27 -L- Sta. 125+29 RTL (LT)	1.1 Fill	10.0	-	0.7 LT FW	Cr	8.00	8.00				Asphalt SG	0.7-1.1: RE - Tan-Gray, Silty Fine to Coarse SAND 1.1-5.0: UDCP - Gray-Tan, Silty Fine SAND	Ref-26 S-27	A-2-4 A-2-4	M M	5.0	No Distress Observed	678,067	2,469,133
C-28 -L- Sta. 137+61 LT LN	At Grade	13.0	3.0 Concrete Curb & Gutter	5.3 LT EOP	Cr	12.00	3.50	8.50			Asphalt ABC SG	1.0-5.0: UDCP - Gray-Tan, Fine Sandy SILT	S-28	A-4(0)	M	5.0	High Severity Fatigue Cracking, 0.5-1.0 Inch Deep Rutting (OSWP)	679,274	2,469,301
C-29 -L- Sta. 137+61 LTL (I)	1.6 Fill	12.0	-	31.1 LT EOP	Cr	7.00	7.00				Asphalt SG	0.6-1.6: RE - Tan, Fine to Coarse Sandy SILT 1.6-5.0: UDCP - Gray-Tan, Fine Sandy SILT	Ref-25 Ref-28	A-4 A-4	M M	5.0	Moderate to High Severity Fatigue Cracking (OSWP), Moderate to High Severity Transverse Cracking	679,273	2,469,312
C-30 -L- Sta. 137+61 RT LN	1.8 Fill	11.0	-	19.0 LT EOP	Cr	11.00	3.50	7.50			Asphalt ABC SG	0.9-1.8: RE - Tan, Fine to Coarse Sandy SILT 1.8-5.0: UDCP - Gray-Tan, Fine Sandy SILT	Ref-25 Ref-28	A-4 A-4	M M	5.0	High Severity Fatigue Cracking (IS/OSWP), Raveling, 0.5-1.0 Inch Deep Rutting (IS/OSWP), Potholes (~1.0 L x 1.0 W x 1.0" D)	679,272	2,469,326

Notes:
Offset Distance: Left and Right Relative to the Direction of Travel
CTL Offset Distance Measured from RT LN White Line Unless Noted Otherwise

Prepared by: CTW
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	44677.3.1
TIP:	U-5875

Route:	Allen Road (SR 1203) Allen Road from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
County:	Pitt

Date Performed:	8/19 thru 8/21 (2 Nights)
Field Personnel:	T. Wenner, CG2 Exploration

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade						GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting
C-31 -L- Sta. 137+61 RTL (RT)	At Grade	12.0	3.0 Concrete Curb & Gutter	1.4 LT EOP	Cr	11.00	3.00	8.00			Asphalt ABC SG	0.9-5.0: UDCP - Gray-Tan, Fine Sandy SILT	Ref-28	A-4	M	5.0	High Severity Fatigue Cracking (IS/OSWP), 0.5-1.0 Inch Deep Rutting Along OSWP **Full Depth Crack in Core**	679,271	2,469,343
C-32 -Y- Sta. 16+95 LT OSL	2.0 Fill	12.0	3.0 Concrete Curb & Gutter	3.6 LT EOP	Cr	12.00	7.00	5.00			Asphalt ABC SG	1.0-2.0: RE - Tan, Silty Fine to Coarse SAND 2.0-5.0: UDCP - Gray, Clayey Fine Sandy SILT, organic odor	Ref-37 Ref-33	A-2-4 A-4	M W	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking **1.0 Inch Top Down Crack in Core**	668,517	2,466,175
C-33 -Y- Sta. 16+95 CTL	At Grade	15.0	-	6.6 LT FY (FR LT LN)	Cr	17.00	8.75			3.50 Brick 4.75 Concrete	Asphalt Brick Concrete/SG	1.4-5.0: UDCP - Gray-Tan, Fine Sandy SILT	S-33	A-4(1)	W	5.0	No Distress Observed **Middle Portion of Asphalt Core Degraded, Asphalt Thickness Measured From Borehole**	668,492	2,466,186
C-34 -Y- Sta. 16+95 RT OSL/RTL	2.3 Fill	14.0	3.0 Concrete Curb & Gutter	2.6 LT EOP	Cr	15.00	6.25	8.75			Asphalt ABC SG	1.3-2.3: RE - Tan, Silty Fine to Coarse SAND 2.3-5.0: UDCP - Gray, Fine Sandy SILT, trace organics	Ref-37 Ref-33	A-2-4 A-4	M W	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking, Moderate Severity Joint Crack Along RT OSL & ISL	668,464	2,466,199
C-35 -Y- Sta. 21+59 RT OSL	3.0 Fill	12.0	3.0 Concrete Curb & Gutter	7.0 LT FW	Cr	19.00	5.75	13.25			Asphalt ABC SG	1.6-3.0: RE - Gray, Silty Fine to Coarse SAND 3.0-5.0: UDCP - Gray, Fine Sandy SILT	Ref-37 S-35A	A-2-4 A-4(0)	M W	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking	668,707	2,466,598
C-36 -Y- Sta. 25+55 LT LN (O)	4.0 Fill	12.0	3.0 PS	1.0 LT FW	Cr	12.50	12.50				Asphalt SG	1.0-4.0: RE - Gray-Tan, Silty Fine to Coarse SAND Buried tree encountered at 1.8', Auger Refusal in wood	Ref-37	A-2-4	M	4.0 AR	Moderate to High Severity Longitudinal and Transverse Cracking	668,860	2,466,963
C-37 -Y- Sta. 25+55 LT LN (I)	2.0 Fill	12.0	3.0 PS	4.5 LT FW	Cr	11.00	11.00				Asphalt SG	0.9-2.0: RE - Gray-Tan, Silty Fine to Coarse SAND 2.0-5.0: UDCP - Gray-Tan, Fine Sandy SILT	S-37 S-37A	A-2-4 A-4(0)	M M	5.0	Moderate to High Severity Longitudinal and Transverse Cracking	668,857	2,466,964
C-38 -Y- Sta. 25+55 RT LN	At Grade	12.0	3.0 PS	0.6 LT FW	Cr	13.25	13.25				Asphalt SG	1.1-4.0: UDCP - Gray-Tan, Fine Sandy SILT 4.0-5.0: UDCP - Gray-Tan, Fine Sandy SILT	Ref-37A Ref-37A	A-4 A-4	M M	5.0	Moderate to High Severity Longitudinal and Transverse Cracking	668,839	2,466,972
C-39 -Y8- Sta. 10+96 LT OSL	5.0 Fill	12.0	3.0 Concrete Curb & Gutter	1.6 LT FW	Cr	13.50	5.00	8.50			Asphalt ABC SG	1.2-5.0: RE - Tan, Silty Fine to Coarse SAND	Ref-40	A-2-4	M	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking	679,577	2,468,955
C-40 -Y8- Sta. 12+96 LTL (RT)	5.0 Fill	12.0	-	6.5 RT FY	Cr	15.00	5.50	9.50			Asphalt ABC SG	1.3-5.0: RE - Tan, Silty Fine to Coarse SAND	S-40	A-2-4	M	5.0	Low Severity Longitudinal Cracking	679,517	2,469,148
C-41 -Y8- Sta. 13+10 RT ISL	5.0 Fill	12.0	-	16.5 RT FY	Cr	5.50	5.50	Yes			Asphalt ABC	RE - Tan, Silty Fine to Coarse SAND DCP not performed to full depth, no auger due to utility	Ref-40	A-2-4	M	-	Low Severity Longitudinal Cracking, Low Severity Joint Crack Between OSL & ISL	679,505	2,469,161
C-42 -Y8- Sta. 12+96 RT OSL	5.0 Fill	12.0	-	14.8 LT EOP	Cr	15.00	4.75	10.25			Asphalt ABC SG	1.3-5.0: RE - Tan, Silty Fine to Coarse SAND	Ref-40	A-2-4	M	5.0	Low Severity Transverse Cracking, Low Severity Joint Crack Between RTL & OSL/ISL	679,491	2,469,145
C-43 -Y8- Sta. 12+96 RTL (RT)	3.0 Fill	12.0	3.0 Concrete Curb & Gutter	5.5 LT EOP	Cr	10.25	10.25				Asphalt SG	0.9-3.0: RE - Tan, Silty Fine to Coarse SAND 3.0-5.0: UDCP - Gray-Tan, Fine Sandy SILT	S-43 Ref-28	A-2-4 A-4	M M	5.0	Low Severity Joint Crack Between RTL & OSL	679,482	2,469,143
C-44 -Y8- Sta. 16+99 LT OSL	4.0 Fill	12.0	3.0 Concrete Curb & Gutter	2.6 LT EOP	Cr	13.00	4.75	8.25			Asphalt ABC SG	1.1-4.0: RE - Tan, Silty Fine to Coarse SAND 4.0-5.0: UDCP - Gray-Tan, Fine Sandy SILT	Ref-45 Ref-28	A-2-4 A-4	M M	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking, Moderate Severity Joint Crack Between ISL/OSL **Full Depth Crack in Core**	679,486	2,469,551
C-45 -Y8- Sta. 16+99 LT ISL	5.0 Fill	12.0	-	18.0 LT EOP	Cr	13.00	5.25	7.75			Asphalt ABC SG	1.1-5.0: RE - Tan, Silty Fine to Coarse SAND	S-45	A-2-4	M	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking, Moderate Severity Joint Crack Between ISL/OSL	679,470	2,469,548

Notes:
Offset Distance: Left and Right Relative to the Direction of Travel
CTL Offset Distance Measured from RT LN White Line Unless Noted Otherwise

Prepared by: CTW
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	44677.3.1
TIP:	U-5875

Route:	Allen Road (SR 1203) Allen Road from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
County:	Pitt

Date Performed:	8/19 thru 8/21 (2 Nights)
Field Personnel:	T. Wenner, CG2 Exploration

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade						GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting
C-46 -Y8- Sta. 22+73 RT OSL	5.0 Fill	12.0	3.0 Concrete Curb & Gutter	2.5 LT EOP	Cr	12.50	5.25	7.25			Asphalt ABC SG	1.0-5.0: RE - Tan, Silty Fine to Coarse SAND	S-46	A-2-4	M	5.0	Low to Moderate Severity Longitudinal and Transverse Cracking, Moderate Severity Joint Crack Between OSL & ISL **Full Depth Crack in Core, Core Disintegrated, Asphalt Thickness Measured from Borehole**	679,344	2,470,110

Notes:
Offset Distance: Left and Right Relative to the Direction of Travel
CTL Offset Distance Measured from RT LN White Line Unless Noted Otherwise

Prepared by: CTW
Reviewed by: DMB

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run
C-1 LT OSL -L- Sta. 15+20 1.4 LT EOP	8/20/2024

Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				ABC		4.0 Fill	
1.21	17.80	46.47						
1.84	17.97	47.56						
2.43	18.15	48.42						
2.66	18.37	49.67						
3.06	18.55	51.91						
3.40	18.88	54.26						
3.68	19.16	55.45						
3.97	19.53	56.18						
4.13	19.82	57.08						
4.48	20.06	57.91						
4.68	20.28	58.69						
4.82	20.44	59.55						
4.98	20.91	60.34						
5.19	21.30	61.23						
5.47	21.49	61.96						
5.80	21.74	62.73						
6.03	22.02	63.68						
6.42	22.20	64.50						
6.75	22.33	65.36						
7.08	22.52	66.36						
7.32	22.89	67.48						
7.55	23.08	68.09						
7.77	23.31	69.09						
7.90	23.60	70.05						
8.20	24.06	71.15						
8.28	24.33	71.96						
8.53	24.88	72.85						
8.83	25.06	73.58						
9.05	25.52	74.67						
9.22	26.01	75.78						
9.57	26.37	76.86						
9.69	26.94	78.17						
9.81	27.42	79.28						
9.99	27.66	80.64						
10.37	28.15	82.26						
10.53	28.64	83.52						
10.65	28.98	85.07						
10.71	29.45	86.90						
10.98	29.97	89.28						
11.34	30.57	91.50						
11.57	31.11	95.22						
11.76	31.49	98.00						
11.99	32.05	99.36						
12.24	32.53	100.55						
12.43	33.06	101.44						
12.67	33.57	102.23						
13.06	34.18	103.12						
13.22	34.74	103.85						
13.65	35.30	104.88						
13.87	35.71	106.02						
14.00	36.28	107.65						
14.27	36.94	109.29						
14.43	37.42	112.63						
14.57	38.00	115.02						
14.77	38.71	116.95						
15.05	39.45	118.60						
15.23	40.08	119.90						
15.52	40.76	121.55						
15.75	41.30	123.03						
16.05	41.83	124.60						
16.26	42.53	126.60						
16.52	43.26	129.42						
16.91	44.00	133.01						
17.08	44.85	135.72						
17.50	45.54	138.85						

Test Location	Date Run
C-2 RT OSL -L- Sta. 15+67 1.7 LT EOP	8/20/2024

Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				ABC		5.0 Fill	
1.78	15.30	32.17	68.62					
2.41	15.57	32.64	69.75					
3.19	15.66	33.16	70.65					
3.54	15.89	33.60	72.21					
3.77	16.20	34.09	73.19					
4.15	16.38	34.52	74.05					
4.53	16.60	34.93	75.04					
4.79	16.71	35.27	76.07					
5.10	16.93	35.73	77.16					
5.28	17.03	36.29	78.73					
5.44	17.27	36.87	80.28					
5.52	17.50	37.31	82.23					
5.63	17.65	37.55	84.31					
5.76	17.84	38.01	87.38					
5.90	18.04	38.36	90.64					
6.18	18.17	38.98	95.18					
6.33	18.24	39.51	98.36					
6.45	18.47	39.92	104.89					
6.74	18.61	40.39	110.17					
6.91	18.72	40.79	114.83					
7.12	19.01	41.24	119.53					
7.23	19.29	41.64	124.09					
7.45	19.42	42.11	128.24					
7.58	19.72	42.63	132.38					
7.72	19.98	43.11	136.77					
7.96	20.36	43.69						
8.32	20.65	44.32						
8.50	21.00	44.88						
8.56	21.15	45.46						
8.67	21.46	45.91						
8.92	21.63	46.44						
9.08	21.81	47.06						
9.24	22.12	47.74						
9.41	22.21	48.22						
9.56	22.45	48.57						
9.79	22.79	49.16						
10.13	23.22	49.65						
10.18	23.41	50.13						
10.22	23.65	50.64						
10.33	23.89	51.10						
10.49	24.17	51.79						
10.78	24.40	52.48						
10.85	24.66	53.33						
11.06	24.95	53.86						
11.21	25.17	54.41						
11.45	25.41	54.95						
11.62	25.77	55.49						
11.87	25.92	56.09						
12.04	26.17	56.81						
12.30	26.41	57.46						
12.50	26.69	58.07						
12.68	27.29	58.77						
12.99	27.81	59.42						
13.19	27.96	60.18						
13.26	28.18	60.75						
13.40	28.51	61.48						
13.65	28.77	62.09						
13.97	29.09	62.66						
14.08	29.46	63.24						
14.21	29.83	63.97						
14.37	30.16	64.70						
14.59	30.52	65.53						
14.77	30.95	66.23						
14.90	31.36	66.85						
15.18	31.80	67.55						

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run
C-3 RTL (RT) -L- Sta. 17+52 9.0 LT EOP	8/20/2024

Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				ABC		At Grade	
1.24	18.04	48.29						
1.63	18.40	49.20						
2.02	18.68	50.38						
2.25	19.01	51.47						
2.41	19.39	52.41						
2.64	19.69	53.26						
2.99	20.11	54.07						
3.31	20.56	55.08						
3.57	20.76	56.29						
3.85	21.14	57.67						
4.11	21.39	59.74						
4.21	21.67	61.98						
4.73	21.98	63.96						
4.87	22.25	65.90						
4.91	22.68	68.69						
5.38	23.04	71.88						
5.49	23.48	75.29						
5.64	23.74	79.13						
5.76	24.11	83.16						
6.03	24.81	87.43						
6.34	25.20	92.28						
6.54	25.67	96.33						
6.70	25.89	100.62						
6.92	26.21	105.30						
7.29	26.46	109.76						
7.44	26.69	114.54						
7.72	27.09	119.04						
8.01	27.35	123.08						
8.34	27.84	127.11						
8.52	28.05							
8.63	28.66							
8.76	28.94							
9.03	29.44							
9.14	29.73							
9.26	30.04							
9.50	30.48							
10.06	30.79							
10.34	31.27							
10.50	31.53							
10.71	31.80							
10.93	32.25							
11.51	32.67							
11.78	32.99							
12.02	33.51							
12.39	33.85							
12.67	34.38							
12.97	34.75							
13.11	35.20							
13.35	35.73							
13.76	36.25							
14.21	36.86							
14.42	37.42							
14.78	38.08							
14.98	38.62							
15.21	39.26							
15.32	39.82							
15.51	40.29							
15.62	41.04							
15.96	41.69							
16.22	42.39							
16.61	42.92							
16.90	43.54							
17.22	44.26							
17.45	45.51							
17.94	46.92							

Test Location	Date Run
C-4 RTL (LT) -L- Sta. 20+52 2.2 LT EOP	8/20/2024

Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				ABC		3.5 Fill	
2.22	17.98	28.71	46.83					
3.49	18.03	28.88	47.02					
3.88	18.08	29.05	47.30					
4.39	18.13	29.21	47.48					
5.26	18.18	29.38	47.93					
5.64	18.23	29.52	48.12					
5.82	18.29	29.67	48.57					
6.07	18.34	29.81	48.74					
6.24	18.39	29.95	49.12					
6.58	18.49	30.10	49.62					
7.04	18.59	30.24	49.97					
7.22	18.69	30.43	50.37					
7.52	18.79	30.63	50.79					
7.66	18.89	30.82	51.11					
7.79	19.00	31.01	51.54					
8.00	19.10	31.21	51.90					
8.19	19.20	31.40	52.38					
8.34	19.30	31.82	52.70					
8.57	19.40	31.98	53.07					
8.79	19.50	32.18	53.32					
8.88	19.89	32.41	53.65					
9.05	20.17	32.85	53.98					
9.60	20.59	33.11	54.27					
9.90	20.81	33.28	54.71					
10.08	21.09	33.50	54.94					
10.21	21.30	33.61	55.34					
10.48	21.52	33.83	55.61					
10.74	21.77	34.16	55.94					
11.03	22.18	34.63	56.39					
11.24	22.43	34.93	56.80					
11.41	22.66	35.26	57.37					
11.60	23.03	35.83	57.78					
11.75	23.19	36.62	57.96					
11.97	23.42	37.25	58.55					
12.43	23.66	37.58	59.12					
12.51	23.87	38.07	59.52					
12.62	24.15	38.32	59.95					
12.74	24.37	38.71	60.47					
12.85	24.55	38.93	61.12					
12.97	24.78	39.27	61.69					
13.08	25.05	39.71	62.32					
13.20	25.19	39.98	63.01					
13.31	25.38	40.25	63.67					
13.43	25.53	40.59	65.00					
13.54	25.71	40.83	66.34					
13.66	26.05	41.03	68.94					
13.77	26.20	41.47	71.07					
14.04	26.32	41.70	72.83					
14.35	26.51	42.02	73.49					
14.56	26.68	42.26	74.05					
15.15	26.92	42.43	74.63					
15.19	27.06	42.64	75.04					
15.55	27.15	42.89	75.62					
15.83	27.25	43.14	76.06					
15.95	27.34	43.52	76.55					
16.09	27.43	43.95	76.91					
16.27	27.53	44.24	77.15					
16.58	27.62	44.60	77.73					
16.88	27.75	44.78	77.90					
17.25	27.87	45.08	78.19					
17.52	28.00	45.43	79.04					
17.74	28.13	45.79	79.57					
17.82	28.25	46.01	79.97					
17.87	28.38	46.34	80.20					
17.92	28.55	46.69	80.70					

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-5 RTL (LT) -L- Sta. 26+16 0.8 LT FW	8/20/2024	C-6 LT LN -L- Sta. 31+53 0.8 LT FW	8/20/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	At Grade	DCP	Cumulative cm per blow	ABC	At Grade
2.28				1.29	22.99		
3.89				1.77	23.56		
4.92				2.51	24.30		
6.09				3.21	24.69		
7.13				4.22	25.09		
8.16				4.67	25.44		
8.83				4.95	25.85		
9.79				5.31	26.32		
10.68				5.70	26.59		
11.56				6.09	27.02		
12.27				6.64	27.42		
13.08				7.00	28.59		
13.47				7.36	29.22		
14.47				7.72	29.71		
15.34				8.40	30.41		
16.26				8.66	31.03		
16.89				9.16	31.91		
17.55				9.46	32.77		
18.32				9.73	33.78		
19.61				10.14	34.86		
20.51				10.28	36.29		
21.74				10.56	37.37		
22.28				10.71	38.69		
23.27				10.85	40.09		
24.10				11.09	41.84		
25.18				11.40	43.53		
26.18				11.53	45.48		
27.42				11.76	47.33		
27.96				11.92	49.20		
28.98				12.06	52.74		
30.19				12.31	55.94		
31.59				12.66	60.33		
32.67				12.91	63.88		
33.95				13.17	68.01		
35.31				13.66	71.83		
37.05				13.96	75.42		
38.13				14.27	79.28		
39.61				14.47	82.65		
41.31				14.81	85.87		
42.56				15.11	89.03		
44.01				15.38	91.66		
45.23				15.55	94.27		
46.51				15.73	97.02		
47.83				16.00	99.51		
48.78				16.31	101.99		
49.83				16.63	104.52		
50.57				17.15	107.29		
Utility				17.91	109.42		
Present				18.08	111.99		
				18.36	114.65		
				18.68	117.34		
				18.93	119.78		
				19.20	121.79		
				19.49	124.18		
				19.80	126.75		
				20.18	129.00		
				20.43			
				20.78			
				21.20			
				21.49			
				21.68			
				21.87			
				22.11			
				22.48			
				22.68			

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-7 CTL -L- Sta. 31+53 15.5 LT FW	8/19/2024	C-8 RT LN -L- Sta. 31+53 0.6 LT FW	8/19/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4(0))	At Grade	DCP	Cumulative cm per blow	ABC	At Grade
1.25	124.61			6.21	86.66		
2.19				7.45	88.89		
2.77				8.85	91.13		
3.32				9.79	92.85		
4.13				10.54	94.71		
4.58				11.23	96.23		
5.05				11.39	97.93		
5.42				11.66	99.52		
5.96				11.84	101.53		
6.56				12.19	103.08		
6.81				12.48	104.83		
7.41				12.75	106.65		
7.95				13.00	108.61		
8.33				13.17	110.25		
8.67				13.44	112.16		
9.24				13.68	113.86		
9.87				14.02	115.96		
10.27				14.16	117.79		
10.85				14.36	119.57		
11.67				14.74	121.78		
12.49				14.93	123.40		
13.28				15.18	125.36		
14.23				15.40			
15.12				15.71			
16.28				15.89			
17.31				16.14			
19.05				16.31			
20.44				16.60			
21.86				16.75			
23.72				17.14			
25.46				17.28			
27.45				17.63			
29.00				18.04			
30.20				18.60			
31.56				19.28			
32.25				19.74			
33.25				20.41			
34.54				20.92			
35.18				21.57			
36.31				22.60			
38.19				24.03			
41.21				27.25			
45.97				30.07			
51.36				33.94			
56.66				37.56			
61.31				41.33			
66.29				44.98			
70.87				46.70			
74.69				48.78			
78.28				51.17			
82.26				53.99			
85.84				56.21			
88.88				58.64			
92.49				61.17			
95.79				63.40			
99.23				65.43			
102.37				67.41			
105.24				69.86			
107.96				72.39			
110.19				74.91			
114.22				76.95			
116.19				79.31			
118.19				81.59			
120.65				83.41			
122.71				85.16			

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-9 RTL (LT) -L- Sta. 37+33 1.0 LT FW	8/20/2024	C-10 LT PS -L- Sta. 43+76 0.3 RT FW	8/20/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	At Grade	DCP	Cumulative cm per blow	ABC	At Grade
1.90				1.29	23.34	96.45	
3.01				2.25	23.61	99.00	
4.00				2.87	24.10	101.48	
5.01				3.33	24.34	103.97	
5.66				3.94	24.49	105.92	
6.38				4.47	24.77	107.75	
6.99				4.89	25.13	109.90	
8.01				5.22	25.48	112.14	
9.12				5.72	25.60	114.14	
9.99				6.24	25.82	116.13	
10.58				6.68	26.18	118.12	
11.26				7.00	26.35	120.31	
12.01				7.21	26.76	122.11	
12.67				7.37	27.00	124.42	
13.76				7.76	27.19	126.33	
14.34				7.96	27.50	127.76	
15.64				8.10	27.84	129.26	
16.49				8.29	28.22	131.22	
17.34				8.51	28.42	132.87	
18.84				8.84	28.70		
19.50				9.17	29.14		
20.44				9.69	29.42		
21.31				10.18	29.88		
22.46				10.46	30.02		
23.59				10.73	30.48		
24.54				11.10	30.72		
25.47				11.60	31.26		
26.72				12.03	31.59		
27.58				12.34	31.80		
28.75				12.57	32.06		
29.85				12.95	32.20		
30.83				13.30	32.76		
32.08				13.48	33.08		
33.64				13.77	33.80		
34.44				13.95	34.30		
35.43				14.37	34.40		
36.89				14.64	34.88		
38.00				14.97	35.56		
39.05				15.23	36.23		
40.88				15.50	36.88		
42.62				15.95	37.40		
44.05				16.39	38.05		
45.66				16.96	39.02		
47.26				17.11	39.58		
Utility				17.44	40.35		
Present				17.70	41.00		
				17.91	41.50		
				18.36	43.63		
				18.58	44.83		
				18.81	45.96		
				19.14	47.89		
				19.24	50.30		
				19.58	54.54		
				19.85	57.78		
				20.22	62.49		
				20.51	66.90		
				20.67	71.10		
				20.88	74.77		
				21.30	77.59		
				21.72	80.58		
				22.06	83.17		
				22.35	85.89		
				22.51	88.26		
				22.84	91.24		
				23.11	93.56		

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-11 RT PS -L- Sta. 43+76 0.5 RT FW	8/19/2024	C-12 LT LN -L- Sta. 56+23 1.2 LT FW	8/20/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	At Grade	DCP	Cumulative cm per blow	ABC	At Grade
1.44	82.31			1.07	31.84		
2.90	84.90			1.92	33.21		
3.71	87.09			2.65	34.48		
4.21	89.22			3.03	35.60		
5.25	91.17			3.50	36.93		
6.29	93.23			3.68	38.29		
7.03	94.86			3.99	39.54		
7.98	97.09			4.21	41.03		
8.58	99.04			4.53	42.75		
9.07	100.78			4.99	46.28		
9.62	102.38			5.29	50.97		
9.86	104.30			5.53	56.46		
10.25	106.01			5.74	61.01		
10.61	107.50			5.93	65.82		
11.09	109.18			6.12	70.30		
11.53	110.77			6.42	73.79		
11.91	112.17			6.80	76.79		
12.37	113.75			6.90	79.95		
12.75	115.13			7.23	82.66		
13.33	116.52			7.46	84.94		
13.72	117.89			7.73	87.38		
14.02	119.25			7.92	89.64		
14.39	120.51			8.08	91.82		
14.69	122.03			8.33	93.78		
15.15	123.40			8.65	95.72		
15.41	124.44			8.84	97.47		
15.96	125.75			8.99	99.09		
16.22	126.95			9.18	100.52		
16.66				9.59	102.12		
16.88				9.71	103.76		
17.24				9.91	105.26		
17.75				10.13	106.82		
18.25				10.31	108.45		
18.84				10.54	110.09		
19.19				10.77	111.57		
19.44				11.20	112.92		
19.74				11.38	114.32		
20.27				11.69	115.75		
20.57				12.00	116.90		
20.98				12.14	117.72		
21.27				12.31	120.80		
21.50				12.46	123.14		
22.03				12.62	124.51		
22.44				12.87	126.07		
23.11				13.30	127.52		
23.60				13.69	128.62		
23.86				14.03	130.02		
24.66				14.76	131.35		
25.14				14.98			
26.44				15.49			
27.26				16.19			
28.69				16.62			
30.29				17.23			
35.66				17.76			
40.84				18.30			
46.38				18.84			
51.85				19.83			
56.79				20.91			
61.26				22.72			
64.84				24.46			
67.85				26.28			
71.02				27.20			
73.93				28.21			
76.66				29.62			
79.52				30.74			

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-13 CTL -L- Sta. 56+23 16.0 LT FW	8/19/2024	C-14 RT LN -L- Sta. 56+23 1.3 LT FW	8/19/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-2-4)	1.5 Fill	DCP	Cumulative cm per blow	ABC	At Grade

0.85	22.35	111.50		1.32	33.77		
1.75	22.57	112.46		2.03	38.02		
2.62	22.83	113.89		2.59	42.22		
3.13	23.15	114.79		2.95	45.21		
3.80	23.33	116.15		3.23	48.28		
4.06	23.77	117.46		3.69	50.84		
4.44	23.97	118.40		4.00	53.52		
4.89	24.33	119.38		4.30	56.07		
5.31	24.73	120.53		4.51	58.23		
5.65	24.98	121.95		4.79	60.50		
5.91	25.24	123.61		5.10	62.80		
6.37	25.44	124.66		5.32	64.61		
6.65	25.77	125.78		5.61	66.68		
6.73	26.17	126.93		5.91	68.55		
7.04	26.54	128.25		6.05	70.33		
7.36	26.88	129.31		6.46	72.26		
7.65	27.43	130.36		6.75	74.27		
7.92	27.82	131.66		6.96	75.84		
8.23	28.41	132.65		7.18	77.63		
8.57	29.06	133.75		7.38	79.02		
9.08	30.17	135.11		7.69	80.47		
9.28	31.01			8.03	81.73		
9.60	32.71			8.27	83.43		
9.85	34.45			8.54	84.70		
10.23	36.74			8.76	86.36		
10.71	39.55			9.08	87.51		
10.95	41.67			9.40	88.93		
11.40	44.64			9.65	89.78		
11.79	46.80			10.09	91.42		
12.14	49.26			10.31	92.74		
12.60	51.55			10.58	94.16		
13.05	53.54			10.76	95.44		
13.43	55.67			10.95	96.72		
13.76	58.04			11.14	98.08		
13.96	60.07			11.38	99.67		
14.20	61.63			11.65	101.39		
14.44	63.62			12.09	102.78		
14.66	65.73			12.43	104.31		
15.00	67.49			12.63	105.93		
15.17	69.12			12.85	107.20		
15.35	70.94			13.06	108.49		
15.73	72.54			13.40	109.91		
15.97	74.35			14.06	111.18		
16.27	76.18			14.52	112.53		
16.46	78.00			14.80	113.80		
16.54	80.02			15.18	115.19		
16.82	82.30			15.67	116.81		
17.09	84.01			16.11	117.94		
17.29	85.83			16.41	119.31		
17.62	87.33			16.74	120.93		
17.92	88.95			17.11	122.40		
18.20	90.62			17.37	123.53		
18.36	92.08			17.65	124.68		
18.79	93.37			18.45	125.91		
19.10	94.80			19.06	127.26		
19.42	96.39			19.44	128.26		
19.76	97.66			20.01	129.19		
20.19	98.97			20.52	130.45		
20.46	100.48			21.36	132.01		
20.80	102.07			21.66	133.19		
21.03	103.84			22.57	134.45		
21.26	105.19			23.12			
21.59	106.66			24.18			
21.97	108.28			25.84			
22.13	110.02			29.50			

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-15 LT PS -L- Sta. 75+87 2.8 RT FW	8/19/2024	C-16 LT LN -L- Sta. 75+87 3.0 LT FW	8/19/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-2-4)	2.0 Fill	DCP	Cumulative cm per blow	SG (A-2-4)	1.9 Fill

0.43	19.33	50.06		1.96	24.67		
0.90	19.40	52.55		2.85	24.76		
1.12	19.47	55.72		3.85	24.84		
1.44	19.54	58.36		4.31	24.92		
1.81	19.61	61.41		4.82	25.01		
2.14	19.68	64.72		5.19	25.09		
2.49	19.75	67.94		5.52	25.20		
2.74	19.85	70.50		5.95	25.30		
3.21	19.95	73.34		6.56	25.41		
3.41	20.06	75.89		6.84	25.52		
4.03	20.16	78.55		7.26	25.62		
4.29	20.26	81.20		7.46	25.73		
4.51	20.36	83.76		7.70	25.81		
5.00	20.46	86.15		8.09	25.90		
5.39	20.56	88.41		8.47	25.98		
5.93	20.67	90.29		8.87	26.06		
6.12	20.77	92.43		9.36	26.15		
6.43	20.87	94.46		9.72	26.23		
6.84	21.14	96.81		10.02	26.31		
7.21	21.37	98.89		10.21	26.38		
7.69	21.52	100.99		10.63	26.46		
8.06	21.65	103.47		11.22	26.53		
8.58	21.78	105.24		11.66	26.61		
9.06	22.09	106.99		12.10	26.68		
9.51	22.25	108.85		12.55	26.76		
9.94	22.36	110.60		13.16	26.83		
10.13	22.50	112.19		13.78	26.91		
10.47	22.66	114.53		14.03	26.98		
10.84	22.75	116.62		14.76	27.06		
11.24	22.93	117.93		15.29	27.13		
11.70	23.13			15.80	27.17		
11.97	23.26			16.30	27.21		
12.18	23.51			16.93	27.26		
12.47	23.65			17.39	27.30		
12.85	23.86			18.30	27.34		
13.09	24.02			19.12	27.38		
13.68	24.16			19.68	27.42		
14.16	24.49			20.16	27.46		
14.39	24.68			20.49	27.51		
14.62	25.04			21.04	27.55		
14.95	25.31			21.52	27.59		
15.19	25.51			21.76	27.63		
15.55	25.70			21.91	27.70		
15.91	25.91			22.21	27.77		
16.13	26.18			22.62	27.85		
16.39	26.55			22.87	27.92		
16.57	27.06			23.09	27.99		
16.83	27.56			23.20	28.06		
16.98	27.89			23.37	28.13		
17.07	28.28			23.45	28.21		
17.29	28.69			23.54	28.28		
17.45	29.11			23.76	28.35		
17.56	29.65			23.89	28.43		
17.76	30.13			23.95	28.50		
17.89	30.87			24.01	DCP REF		
18.13	31.51			24.07	50/1.75		
18.34	32.42			24.13			
18.51	33.00			24.19			
18.69	33.98			24.25			
18.88	35.14			24.31			
18.98	36.78			24.36			
19.05	38.89			24.42			
19.12	41.55			24.48			
19.19	44.21			24.53			
19.26	47.00			24.59			

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-17 CTL -L- Sta. 75+87 16.0 LT FW	8/20/2024	C-18 RT LN -L- Sta. 75+87 1.8 LT FW	8/19/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-2-4)	2.5 Fill	DCP	Cumulative cm per blow	ABC	2.0 Cut
1.87	44.02			1.61	18.92	31.31	116.32
3.06	46.94			2.10	19.41	31.56	116.40
3.47	50.45			2.67	19.55	31.71	116.48
3.92	54.03			2.97	19.78	31.87	116.57
4.49	57.08			3.56	20.04	32.14	116.65
5.15	60.34			3.69	20.22	32.32	119.58
5.63	64.03			3.94	20.48	32.52	123.48
6.30	68.22			4.23	20.56	32.87	126.60
6.80	71.53			4.68	20.85	33.03	130.05
7.47	74.83			5.03	20.99	33.39	133.35
8.00	78.59			5.25	21.25	33.61	
8.56	81.83			5.59	21.35	33.94	
9.10	85.35			5.76	21.63	34.41	
9.70	88.59			5.97	21.74	34.61	
10.30	91.89			6.24	21.94	34.85	
10.83	95.53			6.65	22.25	35.22	
11.41	98.69			6.88	22.47	35.56	
11.91	101.25			7.04	22.64	36.20	
12.64	103.45			7.35	22.69	36.74	
13.12	105.75			7.58	22.75	37.47	
13.51	108.21			7.73	22.80	38.18	
14.28	110.08			7.99	22.86	39.00	
14.59	112.22			8.29	22.91	40.14	
15.05	114.05			8.70	22.97	41.91	
15.51	115.71			8.91	23.02	43.99	
16.19				9.13	23.08	47.94	
16.72				9.46	23.13	51.27	
17.07				9.69	23.19	53.57	
17.42				9.94	23.24	56.17	
17.86				10.42	23.31	58.60	
18.38				10.57	23.38	61.61	
18.82				11.03	23.46	64.85	
19.21				11.19	23.53	67.72	
19.94				11.45	23.60	70.68	
20.37				11.74	23.67	73.48	
21.01				12.02	23.97	76.39	
21.70				12.25	24.30	79.70	
22.36				12.39	24.56	82.47	
23.06				12.72	24.79	85.37	
23.81				12.87	25.29	88.11	
24.60				13.22	25.57	91.40	
25.19				13.46	25.71	93.66	
25.74				13.70	26.08	96.84	
26.25				13.87	26.21	99.34	
26.50				14.18	26.41	102.12	
27.19				14.45	26.71	104.79	
27.57				14.63	26.91	107.03	
27.95				14.88	27.09	109.30	
28.28				15.12	27.34	111.15	
29.11				15.36	27.64	112.55	
29.53				15.60	27.98	113.83	
29.79				15.85	28.31	114.31	
30.26				16.15	28.49	114.84	
30.86				16.24	28.62	115.05	
31.46				16.57	28.86	115.26	
32.08				16.86	29.02	115.49	
32.71				17.07	29.12	115.57	
33.45				17.32	29.36	115.66	
34.54				17.47	29.67	115.74	
35.29				17.68	29.94	115.82	
36.37				17.90	30.11	115.90	
37.32				18.05	30.45	115.99	
38.43				18.34	30.62	116.07	
40.07				18.60	30.88	116.15	
42.04				18.75	31.07	116.24	

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-19 RT PS -L- Sta. 75+87 2.2 RT FW	8/19/2024	C-20 RTL (RT) -L- Sta. 84+66 1.2 LT FW	8/20/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	2.0 Cut	DCP	Cumulative cm per blow	ABC	1.0 Cut
1.89	30.88			1.86			
2.93	31.67			2.76			
3.66	32.27			3.55			
4.29	33.27			3.85			
4.72	33.90			4.38			
5.42	34.76			4.84			
5.83	35.66			5.10			
6.32	37.57			5.67			
6.78	40.97			6.23			
7.21	47.60			6.71			
7.81	53.18			7.11			
8.23	58.30			7.29			
8.71	62.75			7.75			
8.98	66.62			8.52			
9.39	69.60			8.75			
9.77	72.51			9.14			
10.33	75.16			9.74			
10.69	77.58			9.94			
10.99	79.98			10.65			
11.65	82.08			11.30			
12.04	84.38			11.80			
12.31	86.29			12.10			
12.77	88.24			13.45			
13.21	90.06			13.93			
13.64	91.73			14.32			
14.16	93.49			14.85			
14.59	95.08			15.09			
15.08	96.51			15.59			
15.55	97.98			16.32			
16.13	99.70			17.25			
16.73	101.51			17.80			
17.34	102.76			18.68			
17.53	104.33			19.50			
18.04	105.86			20.64			
19.08	107.23			21.86			
19.73	108.56			23.07			
20.12	109.59			25.30			
20.58	110.86			28.01			
20.93	112.39			30.31			
21.33	113.78			33.65			
21.61	115.02			37.07			
21.91	116.01			40.54			
22.27	116.69			43.50			
22.47	117.58			46.02			
22.68	118.95			48.75			
23.16	120.06			51.24			
23.33	121.24			53.45			
23.68	122.33			55.91			
23.99	123.84			58.19			
24.37	125.18			60.85			
24.67	126.63			63.27			
24.97	127.77			Utility			
25.25	128.71			Present			
25.79	129.90						
26.01	131.23						
26.37							
26.71							
27.18							
27.58							
28.12							
28.77							
29.16							
29.30							
29.80							
30.40							

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-21 LT PS -L- Sta. 97+01 2.3 RT FW	8/20/2024	C-22 RT PS -L- Sta. 97+01 1.5 RT FW	8/20/2024

Type	Test Interval				Datum		Cut/Fill		Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				SG (A-2-4)		2.3 Fill		DCP	Cumulative cm per blow				ABC		At Grade	
1.02	25.21	56.38							1.38	25.56							
1.50	26.44	57.05							2.74	25.89							
1.91	27.57	57.44							4.04	26.45							
2.17	28.86	57.97							4.94	26.93							
2.38	30.51	58.28							5.34	27.80							
2.73	32.34	59.14							5.84	28.33							
3.03	33.52	59.85							6.37	28.81							
3.32	34.36	61.09							6.67	29.50							
3.74	35.03	61.83							7.24	30.19							
3.93	35.79	62.72							7.48	30.41							
4.11	36.18	63.56							7.79	32.19							
4.53	36.76	64.71							8.27	32.60							
5.07	37.05	65.73							8.49	33.07							
5.23	37.37	67.08							8.62	34.44							
5.38	37.64	68.68							9.17	35.87							
5.52	37.96	70.81							9.57	37.65							
6.01	38.20	72.90							9.80	40.10							
6.16	38.47	75.75							10.11	42.46							
6.42	38.70	78.63							10.44	44.66							
6.53	38.86	81.08							10.80	48.89							
6.66	39.12	83.86							11.05	52.83							
7.01	39.43	86.67							11.24	56.62							
7.22	39.64	88.71							11.52	59.70							
7.36	39.94	91.29							11.77	63.25							
7.74	40.31	93.62							12.11	65.60							
8.29	40.54	95.86							12.34	67.81							
8.44	40.86	98.43							12.66	69.88							
8.77	41.22	100.93							12.82	70.95							
8.90	41.52	103.57							13.13	71.63							
9.19	41.82	106.05							13.40	72.70							
9.33	42.08	108.02							13.60	73.40							
9.63	42.43	110.91							13.92	74.55							
9.87	42.71	113.47							14.17	75.27							
10.09	43.15	115.95							14.34	76.43							
10.35	44.19	117.85							14.63	77.11							
10.56	44.59	120.53							14.83	78.46							
10.78	44.73	122.42							15.16	79.68							
10.95	45.09	124.41							15.51	81.01							
11.26	45.32	126.07							15.65	82.16							
11.43	45.61								15.89	83.86							
11.70	45.86								16.06	85.34							
11.83	46.20								16.32	87.27							
12.00	46.52								16.63	88.98							
12.41	46.67								16.89	92.04							
12.63	46.96								17.22	94.62							
13.13	47.28								17.50	96.64							
13.61	47.48								17.79	99.51							
13.85	47.75								18.08	102.37							
14.25	47.90								18.34	104.26							
14.71	48.56								18.83	106.22							
14.94	48.98								19.25	109.01							
15.61	49.53								19.71	111.40							
16.00	50.04								20.23	112.89							
16.56	50.42								20.66	114.51							
17.16	50.53								21.22	116.30							
17.84	50.78								21.51	118.15							
18.54	51.56								21.82	119.75							
18.92	51.85								21.98	121.43							
19.40	52.10								22.43	124.29							
19.99	52.87								22.68	126.75							
20.40	53.56								23.19	128.41							
21.35	54.32								23.64	129.61							
21.85	54.72								24.05	131.52							
23.01	55.37								24.48	133.03							
24.09	55.81								25.12								

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-23 RTL (LT) -L- Sta. 116+86 1.1 LT FW	8/20/2024	C-24 LT LN -L- Sta. 121+86 0.6 LT FW	8/20/2024

Type	Test Interval				Datum		Cut/Fill		Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				ABC		At Grade		DCP	Cumulative cm per blow				ABC		1.8 Fill	
1.03	54.49								1.11	16.61	104.89						
1.69	56.29								1.93	17.02	106.51						
2.21	58.39								2.40	17.21	108.65						
2.86	61.21								2.83	17.32	110.52						
3.20	65.67								3.17	17.50	111.91						
3.77	70.94								3.50	17.94	113.64						
4.02	76.07								3.76	18.27	115.36						
4.44	80.72								3.96	18.49	116.80						
4.85	83.03								4.13	18.66	118.74						
5.48	84.95								4.48	18.98	120.63						
5.98	87.19								4.61	19.35	122.47						
6.46	89.28								4.74	19.76	124.80						
6.78	92.24								4.90	19.89	126.84						
7.06	95.69								5.21	20.15	128.49						
7.60	98.16								5.39	20.31	130.54						
8.01	100.86								5.55	20.88							
8.34	103.52								5.84	21.08							
8.84	105.58								6.12	21.42							
9.54	107.90								6.23	21.94							
10.33	111.35								6.50	22.40							
10.73	114.88								6.83	22.72							
11.45	118.22								7.02	24.20							
12.08	120.22								7.08	24.89							
12.73	122.56								7.31	25.76							
13.46	124.51								7.45	26.53							
13.98	126.91								7.66	27.17							
14.81	128.91								7.81	28.05							
15.13									8.05	29.46							
15.99									8.16	30.57							
16.46									8.36	32.18							
17.07									8.48	33.67							
17.61									8.69	35.51							
17.95									8.94	37.43							
18.44									9.36	39.71							
18.88									9.51	42.11							
19.50									9.74	43.90							
20.13									9.98	45.84							
20.68									10.19	48.36							
21.54									10.41	50.67							
22.10									10.73	53.59							
22.85									10.83	56.18							
23.73									10.97	57.68							
24.50									11.13	59.91							
25.64									11.24	62.77							
26.47									11.41	64.65							
27.71									11.56	66.47							
29.05									12.02	67.92							
30.56									12.16	69.51							
31.52									12.45	71.14							
32.70									12.64	73.08							
34.01									12.90	75.20							
34.96									13.19	76.97							
36.23									13.73	78.92							
37.26									13.85	80.47							
38.55									14.12	82.33							
39.89									14.33	83.94							
41.31									14.50	86.37							
42.61									14.70	89.56							
43.77									14.87	92.04							
45.09									15.08	93.56							
46.65									15.43	95.51							
48.23									15.60	97.36							
49.68									15.82	99.37							
51.24									16.20	101.22							
52.80									16.43	103.01							

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-25 CTL -L- Sta. 121+86 16.0 LT FW	8/20/2024	C-26 RT LN -L- Sta. 121+86 0.6 LT FW	8/20/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4(0))	1.5 Fill	DCP	Cumulative cm per blow	ABC	2.0 Fill

C-25	C-26	C-26 (cont.)
1.41	0.89	31.71
2.00	1.85	32.38
2.92	2.36	33.40
3.79	2.72	33.63
4.59	3.03	34.66
5.26	3.45	35.62
5.97	3.72	37.03
6.33	3.96	38.31
6.88	4.36	39.88
7.19	4.65	42.58
7.79	4.88	44.98
8.05	4.95	48.38
8.48	5.05	50.63
9.34	5.40	52.89
9.93	5.66	55.33
10.55	6.10	58.02
11.78	6.38	60.97
12.11	6.75	63.73
12.87	6.92	67.11
13.80	7.25	69.96
15.18	7.46	73.06
16.81	7.69	75.83
18.77	8.06	78.83
20.97	8.25	82.74
22.88	8.53	86.07
24.96	8.75	88.51
26.22	9.10	90.61
27.63	9.22	92.20
29.68	9.59	93.47
31.03	9.90	94.59
32.80	10.08	96.14
33.79	10.32	97.88
35.32	10.53	99.45
36.76	10.84	100.65
38.17	11.23	102.22
39.52	11.42	103.97
41.45	11.74	105.38
43.76	12.04	106.85
45.57	12.23	108.49
47.56	12.42	110.29
49.24	12.58	112.26
51.30	12.63	114.08
52.76	13.05	115.90
55.12	13.25	117.66
57.04	13.59	119.28
58.84	13.77	121.11
60.90	14.23	122.83
62.68	14.53	124.58
Utility	14.99	126.81
Present	15.28	129.15
	15.78	
	16.48	
	17.16	
	17.87	
	18.62	
	19.60	
	21.56	
	22.70	
	23.45	
	24.85	
	26.26	
	27.72	
	28.72	
	30.14	
	30.90	

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-27 RTL (LT) -L- Sta. 125+29 0.7 LT FW	8/20/2024	C-28 LT LN -L- Sta. 137+61 5.3 LT EOP	8/20/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-2-4)	1.1 Fill	DCP	Cumulative cm per blow	ABC	At Grade

C-27	C-28	C-28 (cont.)
1.95	5.89	81.26
3.22	7.92	84.70
4.04	9.33	87.13
4.59	10.08	89.54
5.11	10.72	91.49
5.40	11.17	93.40
5.80	11.67	95.37
6.33	12.11	96.90
6.64	12.56	98.32
7.03	12.82	99.89
7.43	13.19	101.72
7.86	13.64	103.30
8.15	14.27	105.37
8.61	14.72	107.52
9.08	15.14	108.63
9.55	15.52	110.33
9.83	15.95	112.24
10.58	16.48	114.37
11.16	16.74	116.31
11.89	17.30	118.04
12.49	17.88	120.51
13.12	18.22	122.23
13.86	18.61	123.16
14.83	19.14	123.84
15.89	19.56	124.71
16.38	19.88	125.87
18.38	20.19	127.13
20.07	20.44	128.69
23.11	21.18	130.14
25.29	21.90	131.68
27.32	22.49	133.52
29.61	23.59	135.43
31.77	24.29	
33.85	25.69	
36.13	27.15	
38.27	28.64	
40.93	30.00	
43.49	30.84	
46.41	32.09	
49.58	33.16	
52.81	33.64	
56.77	34.33	
60.48	34.89	
64.72	35.62	
68.82	36.29	
73.78	36.89	
78.17	37.70	
82.27	38.47	
86.29	39.10	
89.99	39.88	
93.61	40.69	
96.61	41.54	
99.77	42.61	
102.31	43.85	
105.16	45.54	
107.98	47.55	
110.90	50.33	
113.87	53.10	
116.77	56.09	
119.74	59.50	
122.52	63.38	
125.22	67.14	
127.87	70.33	
130.06	73.92	
131.79	77.81	

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET

WBS NO.	PROJECT TIP I.D.	ROUTE
44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	**FIELD PROFESSIONAL**	**FIELD CREW**
Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run
C-29 LTL (I) -L- Sta. 137+61 31.1 LT EOP	8/20/2024

Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	1.6 Fill

1.70	29.42							
2.52	29.92							
3.02	30.56							
3.43	31.17							
3.94	31.81							
4.36	32.65							
4.88	33.66							
5.26	34.51							
5.46	35.60							
5.83	36.70							
6.15	37.38							
6.40	37.99							
6.61	38.86							
6.90	39.50							
7.35	40.21							
7.66	40.89							
7.88	41.50							
8.13	42.28							
8.44	43.18							
8.57	43.78							
8.74	44.43							
8.98	45.26							
9.19	46.35							
9.69	47.20							
9.97	48.37							
10.46	49.82							
10.61	51.27							
11.02	53.72							
11.51	56.09							
12.00	62.50							
12.47	68.06							
13.12	71.64							
13.60	76.35							
14.22	80.54							
14.90	84.44							
15.36	87.90							
15.98	91.45							
16.74	95.59							
17.42	98.94							
18.12	101.79							
18.82	104.96							
19.33	107.95							
20.00	110.32							
20.37	113.05							
20.95	115.26							
21.39	117.11							
21.69	118.59							
22.17	120.03							
22.67	121.73							
22.97	124.08							
23.27	126.71							
23.67	129.97							
24.06								
24.32								
24.76								
25.21								
25.62								
25.91								
26.38								
26.82								
27.08								
27.35								
28.06								
28.40								
28.84								

Test Location	Date Run
C-30 RT LN -L- Sta. 137+61 19.0 LT EOP	8/20/2024

Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	1.8 Fill

1.27	17.94	140.32						
2.15	18.27							
2.70	18.52							
3.12	18.98							
3.33	19.36							
3.51	19.89							
3.63	20.05							
3.88	20.50							
4.18	21.14							
4.37	21.66							
4.52	22.08							
4.80	22.70							
4.98	23.21							
5.10	23.98							
5.21	24.73							
5.35	25.34							
5.53	26.06							
5.75	26.73							
6.00	27.69							
6.10	28.45							
6.26	29.79							
6.51	31.37							
6.61	32.85							
6.96	34.22							
7.17	35.32							
7.44	36.34							
7.79	37.46							
8.06	38.73							
8.36	39.92							
8.54	41.36							
8.70	43.21							
8.97	46.04							
9.18	48.18							
9.39	51.11							
9.53	54.87							
9.79	60.13							
9.89	65.07							
10.11	69.54							
10.33	72.63							
10.60	75.72							
10.91	78.52							
11.14	81.48							
11.42	85.01							
11.72	88.17							
11.87	91.64							
12.20	95.22							
12.42	97.80							
12.66	101.16							
12.86	103.43							
13.04	105.93							
13.27	109.21							
13.40	111.30							
13.64	113.41							
13.74	115.90							
14.16	118.38							
14.58	120.89							
14.86	123.35							
15.11	125.77							
15.32	128.88							
15.70	130.68							
15.88	132.45							
16.13	133.91							
16.46	135.43							
16.79	137.25							
17.47	138.51							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET

WBS NO.	PROJECT TIP I.D.	ROUTE
44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	**FIELD PROFESSIONAL**	**FIELD CREW**
Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run
C-31 RTL (RT) -L- Sta. 137+61 1.4 LT EOP	8/20/2024

Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	At Grade

2.16	40.93							
4.17	45.33							
5.12	48.85							
5.72	52.00							
6.05	54.86							
6.37	57.68							
6.79	59.95							
6.94	62.44							
7.04	65.32							
7.24	67.33							
7.45	69.72							
7.64	71.61							
7.84	73.45							
7.95	75.29							
8.33	76.99							
8.69	78.86							
8.99	80.97							
9.12	82.84							
9.35	83.97							
9.62	85.87							
9.88	87.42							
10.23	88.95							
10.35	90.44							
10.67	91.87							
10.99	93.53							
11.31	95.14							
11.63	97.04							
12.06	98.87							
12.31	101.03							
12.68	103.14							
12.99	105.39							
13.25	106.96							
13.45	108.88							
13.86	110.60							
14.19	111.74							
14.43	113.46							
14.58	115.30							
14.74	116.79							
15.17	118.20							
15.92	119.84							
16.07	121.17							
16.22	122.65							
16.65	123.76							
16.82	125.56							
17.09	127.03							
17.55	128.44							
17.99	129.40							
18.52	130.51							
18.71	131.55							
18.93	132.72							
19.71	133.80							
20.37	134.72							
21.11	136.18							
21.74	137.31							
22.62								
23.24								
23.62								
24.42								
24.91								
25.65								
26.75								
27.64								
29.21								
31.95								
36.24								

Test Location	Date Run
C-32 LT OSL -Y- Sta. 16+95 3.6 LT EOP	8/20/2024

Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	2.0 Fill

2.59	9.77	36.68	94.47					
3.17	9.80	36.97	96.79					
3.53	9.84	37.20	98.65					
3.91	9.88	37.48	100.47					
4.21	9.92	37.83	102.60					
4.34	9.95	38.04	104.33					
4.50	9.99	38.37	105.68					
4.80	10.03	38.50	107.13					
4.97	DCP REF.	38.66	108.70					
5.12	50/0.75	39.00	109.97					
5.23	Auger to	39.24	111.48					
5.41	17.65	39.71	113.04					
5.54	19.13	39.84	114.56					
5.84	20.19	40.21	116.25					
5.89	21.92	40.49	117.74					
6.07	22.68	40.98	119.56					
6.15	22.97	41.54	121.05					
6.29	23.36	41.95	122.47					
6.50	23.96	42.35	123.85					
6.80	24.50	43.15	125.20					
7.00	24.85	43.71	126.50					
7.17	25.31	44.22	128.03					
7.31	25.89	44.96	129.43					
7.52	26.34	45.87	130.75					
7.68	26.82	46.98	132.48					
7.81	27.09	47.64						
7.98	27.39	49.42						
8.19	27.65	51.09						
8.33	27.89	53.26						
8.57	28.32	54.19						
8.74	29.02	54.96						
8.76	29.17	55.37						
8.79	29.36	55.96						
8.81	29.51	56.58						
8.84	29.80	57.25						
8.86	30.03	57.98						
8.88	30.31	58.52						
8.91	30.53	59.21						
8.93	30.68	60.32						
8.95	30.80	61.14						
8.98	30.96	61.86						
9.00	31.20	62.93						
9.03	31.47	64.00						
9.05	31.68	65.06						
9.07	31.93	65.89						
9.10	32.28	66.76						
9.12	32.48	67.57						
9.14	32.67	68.25						
9.17	32.93	69.16						
9.19	33.19	70.02						
9.22	33.50	71.03						
9.24	33.73	71.78						
9.28	33.98	73.67						
9.32	34.11	75.20						
9.35	34.45	77.00						
9.39	34.64	78.33						
9.43	34.83	79.92						
9.47	35.02	81.18						
9.50	35.22	82.18						
9.54	35.43	83.33						
9.58	35.64	84.59						
9.62	35.79	85.88						
9.65	35.96	87.88						
9.69	36.27	90.38						
9.73	36.44	92.48						

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET

WBS NO.	PROJECT TIP I.D.	ROUTE
44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	**FIELD PROFESSIONAL**	**FIELD CREW**
Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-33 CTL -Y- Sta. 16+95 6.6 LT FY (FR LT LN)	8/20/2024	C-34 RT OSL/RTL -Y- Sta. 16+95 2.6 LT EOP	8/20/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4(1))	At Grade	DCP	Cumulative cm per blow	ABC	2.3 Fill
1.47				0.61	9.57	23.75	118.39
2.31				1.04	9.85	24.05	120.36
3.18				1.32	10.11	24.40	122.77
4.07				1.64	10.28	25.01	125.29
5.01				1.96	10.68	25.36	127.47
5.99				2.34	10.83	25.87	129.61
7.03				2.50	11.10	26.14	131.48
8.15				2.61	11.38	26.51	
9.37				2.80	11.49	26.98	
11.05				2.90	11.65	27.33	
13.53				3.14	11.75	27.95	
16.87				3.29	11.94	28.44	
21.75				3.57	12.11	28.85	
24.59				3.76	12.26	29.43	
30.61				4.05	12.51	30.00	
36.17				4.15	12.77	30.61	
41.85				4.37	12.92	31.11	
46.88				4.41	13.02	31.73	
52.24				4.44	13.08	32.09	
57.58				4.48	13.14	32.60	
61.45				4.52	13.21	33.10	
65.42				4.55	13.27	33.69	
68.89				4.59	13.33	34.21	
71.80				4.62	13.39	35.16	
74.84				4.66	13.45	35.77	
77.49				4.70	13.51	36.14	
79.92				4.73	13.58	36.74	
82.48				4.77	13.64	37.32	
84.83				4.83	13.70	38.11	
87.08				4.88	13.82	38.71	
89.30				4.94	13.94	39.65	
91.72				4.99	14.07	40.40	
93.86				5.05	14.19	41.29	
96.26				5.10	14.31	42.23	
98.26				5.16	14.43	43.16	
100.00				5.21	14.55	44.28	
101.89				5.27	14.67	45.04	
				5.32	14.80	45.64	
				5.38	14.92	46.58	
				5.47	15.04	47.45	
				5.55	15.43	48.11	
				5.64	15.94	49.17	
				5.73	16.24	49.98	
				5.81	16.46	50.81	
				5.90	16.64	51.77	
				5.98	16.84	52.47	
				6.07	17.11	53.52	
				6.16	17.44	54.76	
				6.24	17.57	55.78	
				6.33	17.89	57.63	
				6.80	18.23	61.08	
				7.14	18.72	65.91	
				7.43	19.11	72.14	
				7.59	19.37	77.40	
				7.95	19.58	81.66	
				8.14	19.89	84.94	
				8.30	20.32	89.08	
				8.45	20.71	93.10	
				8.54	21.06	97.13	
				8.70	21.52	101.17	
				8.91	21.79	105.00	
				8.99	22.07	108.11	
				9.14	22.47	111.38	
				9.21	22.75	113.11	
				9.41	23.26	115.57	

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET

WBS NO.	PROJECT TIP I.D.	ROUTE
44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	**FIELD PROFESSIONAL**	**FIELD CREW**
Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-35 RT OSL -Y- Sta. 21+59 7.0 LT FW	8/20/2024	C-36 LT LN (O) -Y- Sta. 25+55 1.0 LT FW	8/20/2024

Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4(1))	3.0 Fill	DCP	Cumulative cm per blow	SG (A-2-4)	4.0 Fill
0.92	17.22	43.42		1.62	108.35		
1.29	17.62	44.10		2.41	111.68		
1.84	17.74	44.98		3.36	115.38		
2.20	18.11	45.75		4.06	118.17		
2.41	18.37	46.21		4.80			
2.67	18.59	46.96		5.73			
2.96	18.85	47.79		6.17			
3.28	19.20	48.63		6.88			
3.49	19.48	49.44		7.57			
3.72	19.80	49.86		8.26			
4.07	19.98	50.30		8.85			
4.32	20.16	51.16		9.75			
4.40	20.34	51.84		10.69			
4.77	20.51	52.40		11.69			
5.02	20.73	53.28		11.91			
5.28	21.24	53.93		12.82			
5.49	21.63	54.68		13.49			
5.70	21.83	55.15		14.49			
6.31	22.21	55.57		15.37			
6.50	22.42	56.50		16.20			
6.84	22.84	57.38		17.18			
7.08	23.35	58.15		18.28			
7.33	23.70	59.20		19.17			
7.49	24.00	59.94		20.55			
7.78	24.47	60.91		21.81			
7.95	24.86	61.74		23.34			
8.24	25.31	62.80		25.38			
8.52	25.67	63.78		28.80			
8.68	26.02	64.52		30.39			
8.83	26.37	65.54		31.09			
9.12	26.77	66.29		31.53			
9.36	27.33	67.12		31.85			
9.62	27.69	67.99		32.09			
9.88	28.25	69.09		32.38			
10.05	28.63	70.03		32.66			
10.25	28.96	71.26		33.15			
10.38	29.15	72.43		33.76			
10.71	29.45	74.44		34.48			
10.87	29.73	76.51		34.94			
11.04	30.36	78.84		35.74			
11.27	30.72	80.76		36.56			
11.57	31.17	82.15		37.31			
11.78	31.72	84.02		38.58			
12.01	32.15	86.12		39.30			
12.28	32.61	88.85		41.02			
12.52	33.01	92.76		43.94			
12.82	33.50	98.09		44.69			
13.09	33.88	102.07		46.61			
13.32	34.42	105.33		49.30			
13.47	34.86	108.79		51.92			
13.64	35.29	111.81		54.87			
14.00	35.87	115.66		58.19			
14.21	36.18	119.78		61.99			
14.35	36.69	123.70		65.79			
14.56	37.11	127.21		69.84			
14.71	37.52	131.30		73.96			
15.07	37.94			78.34			
15.33	38.52			82.50			
15.64	39.11			85.88			
16.04	39.73			89.47			
16.25	40.36			91.94			
16.35	40.99			95.10			
16.50	41.52			98.48			
16.79	42.10			101.80			
16.98	42.81			105.02			

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run
C-37 LT LN (I) -Y- Sta. 25+55 4.5 LT FW	8/20/2024

Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-2-4)	2.0 Fill

1.94								
3.05								
4.23								
5.49								
6.89								
8.90								
10.63								
14.10								
18.32								
20.81								
22.98								
24.05								
25.90								
27.12								
28.39								
29.51								
30.82								
32.14								
34.05								
36.16								
39.33								
43.87								
47.73								
50.27								
52.52								
54.73								
56.56								
58.25								
59.52								
60.82								
62.29								
64.05								
66.39								
69.17								
72.45								
75.23								
78.43								
81.27								
84.25								
87.49								
90.71								
93.82								
96.62								
99.36								
102.67								
105.28								
108.15								
110.81								
113.51								
116.21								
118.78								

Test Location	Date Run
C-38 RT LN -Y- Sta. 25+55 0.6 LT FW	8/20/2024

Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	At Grade

1.46	76.74							
2.92	81.03							
3.52	85.20							
4.16	89.21							
4.76	92.50							
5.25	95.03							
5.82	97.28							
6.34	99.00							
6.97	100.71							
7.45	102.45							
8.00	103.77							
8.33	105.12							
8.61	106.35							
9.30	107.60							
9.91	109.02							
10.62	110.23							
11.38	111.46							
12.07	112.50							
12.56	114.11							
13.25	115.42							
13.81								
14.76								
15.86								
16.89								
18.53								
20.53								
22.79								
25.72								
28.90								
30.59								
32.60								
33.46								
34.29								
35.25								
35.79								
36.40								
36.98								
37.62								
38.27								
38.75								
39.28								
39.70								
40.19								
40.59								
41.20								
41.59								
41.99								
42.61								
43.12								
43.55								
44.25								
44.76								
45.48								
46.32								
46.93								
47.66								
48.56								
49.43								
50.78								
52.23								
54.03								
56.67								
60.24								
65.20								
71.30								

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run
C-39 LT OSL -Y8- Sta. 10+96 1.6 LT FW	8/21/2024

Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 Fill

3.95	11.00	44.17	60.06					
4.73	11.06	44.41	60.15					
5.47	DCP REF.	44.77	60.25					
5.74	50/1.25	45.12	60.78					
6.16	Auger to	45.27	60.94					
6.53	23.75	45.63	61.12					
6.70	24.97	46.00	61.17					
6.88	25.75	46.38	61.30					
7.04	26.44	46.85	61.39					
7.19	26.90	47.19	61.48					
7.41	27.33	47.35	61.58					
7.50	27.93	47.83	61.67					
7.54	28.47	48.23	61.76					
7.57	28.81	48.73	61.85					
7.61	29.09	48.96	62.08					
7.64	29.51	49.61	62.31					
7.68	29.76	49.92	62.54					
7.71	30.02	50.26	62.77					
7.75	30.51	50.48	63.00					
7.78	30.90	50.68	63.23					
7.82	31.03	51.05	63.42					
7.85	31.14	51.27	63.61					
7.89	31.29	51.73	63.80					
7.94	31.65	51.97	63.98					
7.99	31.88	52.25	64.17					
8.03	32.26	52.51	64.36					
8.08	32.42	52.85	64.53					
8.13	32.62	53.12	64.69					
8.18	32.92	53.43	64.86					
8.23	33.26	53.60	65.03					
8.28	33.62	53.84	65.19					
8.32	33.92	54.01	65.36					
8.37	34.20	54.31	65.56					
8.42	34.46	54.49	65.75					
8.52	34.57	54.69	65.95					
8.62	34.93	55.02	66.15					
8.72	35.20	55.20	66.34					
8.82	35.45	55.44	66.54					
8.92	35.65	55.58	66.65					
9.01	36.03	55.87	66.76					
9.11	36.22	56.20	66.88					
9.21	36.57	56.44	66.99					
9.31	36.80	56.65	67.10					
9.41	37.24	56.89	67.21					
9.51	37.45	57.24	67.37					
9.59	37.90	57.71	67.53					
9.68	38.09	57.84	67.70					
9.76	38.34	57.98	67.86					
9.84	38.78	58.11	68.02					
9.93	39.03	58.25	68.18					
10.01	39.22	58.38	68.30					
10.10	39.52	58.52	68.42					
10.18	39.74	58.65	68.54					
10.26	40.09	58.79	68.65					
10.35	40.33	58.92	68.77					
10.43	40.54	59.06	68.89					
10.49	40.84	59.19	DCP REF					
10.54	41.18	59.29	50/4.0"					
10.60	41.53	59.38						
10.66	42.16	59.48						
10.72	42.31	59.58						
10.77	42.76	59.67						
10.83	43.00	59.77						
10.89	43.31	59.86						
10.95	43.71	59.96						

Test Location	Date Run
C-40 LTL (RT) -Y8- Sta. 12+96 6.5 RT FY	8/21/2024

Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 Fill

1.88	13.36	27.84	63.05	87.97	101.65	128.33		
3.02	13.45	28.19	64.34	88.11	101.75	128.88		
3.76	13.55	28.35	65.60	88.25	102.00	129.64		
4.47	13.64	28.54	66.52	88.40	102.27	130.10		
4.65	13.74	28.89	67.62	88.54	102.48	130.87		
4.86	13.83	29.44	68.52	88.69	102.78			
5.27	13.93	29.81	69.12	88.83	103.05			
5.48	13.99	30.12	69.46	88.97	103.79			
5.80	14.06	30.40	70.21	89.12	104.14			
6.06	14.12	30.59	70.54	89.26	104.84			
6.27	14.18	30.82	70.94	89.42	105.41			
6.42	14.25	31.19	71.72	89.57	105.59			
6.60	14.31	31.54	72.03	89.73	105.91			
6.79	14.38	31.93	72.44	89.89	106.30			
6.97	14.44	32.44	72.78	90.04	106.53			
7.14	14.50	33.21	73.11	90.20	106.78			
7.29	14.57	33.66	73.44	90.35	107.25			
7.65	14.63	33.99	73.77	90.51	107.56			
7.79	15.36	34.45	74.16	90.67	107.80			
7.91	15.43	34.89	74.64	90.82	108.16			
8.12	15.51	35.24	75.02	90.98	108.47			
8.65	15.58	35.53	75.32	91.15	108.90			
9.05	15.65	35.74	75.73	91.32	109.29			
9.29	15.72	36.04	76.03	91.49	109.91			
9.51	15.80	36.40	76.46	91.66	110.13			
9.67	15.87	36.79	76.72	91.83	110.49			
9.83	15.94	37.23	76.98	92.00	110.89			
10.01	16.01	37.59	77.20	92.17	111.22			
10.28	16.09	38.02	77.52	92.34	111.39			
10.33	16.16	38.47	77.71	92.51	111.89			
10.38	18.03	38.83	78.08	92.68	112.36			
10.43	18.31	39.36	78.70	92.85	112.77			
10.48	18.75	39.84	79.04	93.11	113.13			
10.53	19.06	40.48	79.33	93.38	113.50			
10.57	19.33	40.77	79.65	93.64	114.01			
10.62	19.81	41.24	79.80	93.90	114.59			
10.67	20.32	41.60	80.23	94.17	115.08			
10.72	20.50	42.23	80.51	94.43	115.51			
10.77	20.63	42.56	80.79	94.69	115.78			
10.85	20.94	42.95	81.01	94.95	116.47			
10.92	21.10	43.38	81.32	95.22	116.77			
11.00	21.35	43.83	81.55	95.48	117.49			
11.07	21.65	44.19	81.87	95.67	117.89			
11.15	21.88	44.61	81.98	95.86	118.24			
11.22	22.19	45.17	82.33	96.05	118.85			
11.30	22.44	46.11	82.74	96.24	119.46			
11.37	22.63	46.34	82.88	96.44	119.89			
11.45	22.86	46.92	83.27	96.63	120.41			
11.52	22.98	47.45	83.55	96.82	120.92			
11.60	23.16	47.96	83.80	97.01	121.16			
11.72	23.31	48.55	84.08	97.20	121.50			
11.83	23.48	48.94	84.41	97.39	121.88			
11.95	23.66	49.72	84.63	98.01	122.39			
12.07	23.75	50.23	84.91	98.42	122.91			
12.18	24.04	50.82	85.28	98.72	123.35			
12.30	24.24	51.56	85.59	99.00	123.74			
12.41	24.56	52.64	85.90	99.33	124.07			
12.53	24.83	53.41	86.08	99.50	124.70			
12.65	25.21	54.29	86.32	99.72	125.34			
12.76	25.64	55.31	86.56	100.03	125.61			
12.88	26.04	56.29	86.74	100.34	125.93			
12.98	26.43	57.46	86.95	100.62	126.44			
13.07	26.69	58.89	87.20	100.71	126.79			
13.17	27.08	60.34	87.68	101.01	127.43			
13.26	27.34	61.62	87.82	101.33	127.96			

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run
C-41 RT ISL -Y8- Sta. 13+10 16.5 RT FY	8/21/2024

Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				ABC		5.0 Fill	
1.10	8.05							
1.56	8.21							
1.89	8.37							
2.23	8.53							
2.53	8.61							
2.77	8.68							
2.88	8.76							
3.06	8.84							
3.15	8.91							
3.45	8.99							
3.62	DCP REF							
4.08	50/1.0"							
4.31	Utility							
4.60	Present							
4.98								
5.23								
5.37								
5.56								
5.80								
5.95								
6.22								
6.42								
6.45								
6.48								
6.50								
6.53								
6.56								
6.59								
6.62								
6.64								
6.67								
6.70								
6.73								
6.76								
6.78								
6.81								
6.84								
6.87								
6.90								
6.92								
6.95								
6.98								
7.01								
7.04								
7.07								
7.09								
7.12								
7.15								
7.18								
7.21								
7.23								
7.26								
7.29								
7.32								
7.35								
7.37								
7.40								
7.43								
7.46								
7.49								
7.51								
7.54								
7.57								
7.73								
7.89								

Test Location	Date Run
C-42 RT OSL -Y8- Sta. 12+96 14.8 LT EOP	8/21/2024

Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				ABC		5.0 Fill	
1.11	11.61	30.52	48.48		72.32	91.01	118.05	
1.93	11.63	30.69	48.93		72.48	91.30	118.77	
2.21	11.64	30.85	49.39		72.75	91.58	119.37	
2.46	11.66	31.07	49.89		73.45	91.87	119.83	
2.69	11.68	31.22	50.35		74.17	92.13	120.45	
2.99	11.70	31.42	50.85		74.66	92.39	121.19	
3.23	11.72	31.57	51.13		74.88	92.65	121.78	
3.34	11.73	31.70	51.36		75.14	92.91	122.36	
3.52	11.75	31.92	51.83		75.40	93.17	123.20	
3.71	11.77	32.20	52.34		75.76	93.43	124.24	
3.95	11.79	32.38	52.68		76.31	93.69	125.18	
4.12	11.81	32.59	53.03		76.57	93.95	125.60	
4.49	11.83	32.87	53.31		76.92	94.21	126.36	
4.59	11.84	33.35	53.64		77.85	94.47	127.20	
4.70	11.86	33.65	54.07		78.09	94.73	127.95	
4.85	11.88	33.86	54.31		78.48	95.48	128.64	
4.98	11.90	34.11	54.68		78.83	95.89	129.40	
5.28	11.92	34.25	54.97		79.11	96.32		
5.42	11.93	34.41	55.39		79.24	96.86		
5.63	11.95	34.54	55.72		79.54	97.42		
5.80	11.97	34.80	55.94		79.95	97.80		
6.07	12.65	35.02	56.16		80.07	98.24		
6.17	12.96	35.23	56.57		80.27	98.65		
6.38	13.33	35.41	56.88		80.47	98.94		
6.55	13.54	35.58	57.17		80.67	99.20		
7.02	13.79	35.74	57.46		80.87	99.49		
7.19	13.99	35.99	57.80		81.07	100.03		
7.29	14.14	36.14	58.16		81.27	100.25		
7.44	14.38	36.40	58.53		81.47	100.58		
7.54	14.55	36.63	58.84		81.67	100.95		
7.73	14.62	36.88	59.19		81.87	101.43		
8.00	14.77	37.10	59.78		82.07	101.69		
8.17	14.99	37.27	60.20		82.27	102.02		
8.48	15.07	37.49	60.64		82.78	102.27		
8.66	15.20	37.83	61.04		83.63	102.75		
8.84	15.35	38.02	61.44		84.17	103.29		
9.06	15.54	38.22	61.78		84.37	103.56		
9.43	15.64	38.49	62.06		84.57	104.19		
9.71	15.82	38.74	62.40		84.78	104.56		
10.04	15.95	39.15	62.86		84.98	105.22		
10.30	16.20	39.54	63.56		85.18	105.85		
10.51	DCP REF	39.78	63.97		85.38	106.12		
10.74	50/0.0"	40.08	64.37		85.58	106.37		
11.01	Auger to	40.20	64.71		85.78	106.73		
11.04	23.13	40.68	64.98		85.99	107.39		
11.07	24.70	40.95	65.57		86.19	107.75		
11.09	25.12	41.30	65.74		86.39	108.23		
11.12	25.63	41.67	66.01		86.60	108.64		
11.15	26.05	41.92	66.22		86.82	108.89		
11.18	26.50	42.29	66.46		87.03	109.22		
11.20	26.88	42.54	67.09		87.24	109.92		
11.23	27.16	42.98	67.50		87.45	110.68		
11.26	27.37	43.29	68.06		87.67	111.11		
11.29	27.59	43.49	68.52		87.88	111.51		
11.31	28.01	43.93	68.82		88.09	112.03		
11.34	28.25	44.26	69.05		88.30	112.68		
11.37	28.40	44.48	69.32		88.52	113.06		
11.40	28.51	44.85	69.63		88.73	113.67		
11.42	28.69	45.39	69.96		89.02	114.17		
11.45	28.98	45.99	70.31		89.30	114.63		
11.48	29.18	46.44	70.62		89.59	115.38		
11.51	29.37	46.83	70.97		89.87	115.94		
11.53	29.51	47.30	71.35		90.16	116.50		
11.56	29.71	47.68	71.67		90.44	117.05		
11.59	30.15	48.00	72.08		90.73	117.56		

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run
C-43 RTL (RT) -Y8- Sta. 12+96 5.5 LT EOP	8/21/2024

Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				SG (A-2-4)		3.0 Fill	
1.69	48.56							
2.67	48.94							
3.50	49.43							
3.86	49.79							
4.76	50.07							
5.80	50.51							
6.35	51.08							
7.02	51.47							
7.36	52.21							
7.85	52.61							
8.86	53.19							
9.10	53.66							
9.80	53.99							
10.57	54.49							
10.86	55.32							
11.54	55.63							
12.07	56.12							
12.68	56.40							
13.36	56.71							
13.80	57.08							
14.77	57.62							
15.17	57.90							
15.60	58.69							
16.05	59.41							
16.65	59.98							
17.00	60.33							
17.57	60.71							
18.32	61.12							
18.81	61.50							
19.42	62.10							
20.02	62.52							
20.53	62.96							
21.49	63.74							
22.00	64.28							
23.00	64.86							
23.85	65.44							
24.59	66.13							
25.50	66.66							
26.19	67.11							
27.07	67.62							
28.17	68.15							
29.25	69.10							
29.99	69.85							
30.91	70.47							
31.96	71.24							
32.92	72.63							
33.85	73.51							
35.14	75.01							
36.10	76.88							
37.23	80.30							
38.26	81.95							
39.33	84.27							
40.10	86.27							
40.88	88.23							
41.83	91.22							
42.43	95.77							
43.21	101.21							
43.91	107.20							
44.55	111.90							
45.26								
45.78								
46.36								
46.86								
47.51								
48.10								

Test Location	Date Run
C-44 LT OSL -Y8- Sta. 16+99 2.6 LT EOP	8/21/2024

Type	Test Interval				Datum		Cut/Fill	
DCP	Cumulative cm per blow				ABC		4.0 Fill	
1.18	16.96	36.77	61.32		85.36			
1.97	17.11	37.25	61.60		86.01			
2.54	17.31	37.65	62.10		86.32			
2.93	17.57	38.03	62.31		86.94			
3.26	17.83	38.50	62.47		87.41			
3.60	18.17	39.01	62.63		87.97			
3.87	18.46	39.52	62.98		88.28			
4.11	18.67	39.95	63.14		88.86			
4.42	18.99	40.35	63.50		89.47			
4.79	19.22	40.89	63.67		89.88			
5.18	19.41	41.53	64.02		90.48			
5.63	19.71	41.75	64.26		90.98			
5.90	20.15	42.09	64.49		91.68			
6.17	20.30	42.71	64.92		92.25			
6.43	20.66	43.45	65.31		92.92			
6.76	20.92	43.86	65.66		93.51			
7.10	21.16	44.43	66.04		94.04			
7.25	21.59	44.98	66.33		94.86			
7.46	21.78	45.42	66.67		95.40			
7.70	21.93	45.95	66.85		95.85			
8.20	22.21	46.22	67.16		96.83			
8.35	22.50	46.74	67.57		97.19			
8.53	22.84	47.38	67.88		97.84			
8.61	22.94	47.92	68.15		98.61			
8.68	23.10	48.33	68.66		99.38			
8.76	23.32	48.81	68.92		99.89			
8.83	23.54	49.27	69.31		100.40			
8.91	23.89	49.77	69.69		100.99			
8.98	24.17	50.12	70.20		101.99			
9.06	24.46	50.55	70.53		102.61			
9.13	24.57	50.89	70.71		103.39			
9.21	24.83	51.27	70.97		104.15			
9.28	25.15	51.65	71.40		104.83			
9.36	25.36	52.15	71.80		105.81			
9.64	25.76	52.51	72.13		106.62			
9.99	25.88	52.93	72.53		107.53			
10.08	26.10	53.09	73.11		108.88			
10.16	26.51	53.55	73.40		109.60			
10.25	26.68	53.78	73.92		110.49			
10.34	27.04	54.05	74.34		111.40			
10.42	27.37	54.29	74.75		112.20			
10.51	27.60	54.49	74.94		113.13			
10.59	27.94	54.86	75.33		114.13			
10.68	28.28	55.29	75.86		115.29			
10.77	28.68	55.55	76.18		116.80			
10.85	29.05	55.90	76.59		118.26			
10.94	29.53	56.10	76.92		119.82			
11.12	29.80	56.32	77.59					
11.56	30.22	56.72	77.73					
11.84	30.44	56.97	78.19					
12.26	30.76	57.30	78.59					
12.41	31.18	57.49	79.19					
12.66	31.59	57.75	79.57					
12.99	31.95	58.00	80.10					
13.28	32.22	58.33	80.41					
13.66	32.64	58.51	80.90					
13.97	33.15	58.71	81.35					
14.12	33.34	59.00	81.80					
14.61	33.69	59.31	82.13					
14.78	34.08	59.54	82.64					
14.95	34.44	59.74	83.06					
15.36	34.98	59.99	83.38					
15.76	35.37	60.28	83.90					
16.17	35.87	60.74	84.52					
16.37	36.41	61.06	84.79					

CAROLINAS GEOTECHNICAL GROUP

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET	WBS NO.	PROJECT TIP I.D.	ROUTE
	44677.3.1	U-5875	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
	COUNTY	FIELD PROFESSIONAL	FIELD CREW
	Pitt	T. Wenner	CG2 Exploration

Test Location	Date Run	Test Location	Date Run
C-45 LT ISL -Y8- Sta. 16+99 18.0 LT EOP	8/21/2024	C-46 RT OSL -Y8- Sta. 22+73 2.5 LT EOP	8/21/2024

Type	Test Interval			Datum		Cut/Fill		Type	Test Interval			Datum		Cut/Fill	
DCP	Cumulative cm per blow			ABC		5.0 Fill		DCP	Cumulative cm per blow			ABC		5.0 Fill	
1.10	18.57	50.84	66.59	84.57				2.09	17.62	45.42					
1.72	18.86	51.34	66.83	85.00				3.56	17.76	46.06					
2.26	19.33	51.69	67.15	85.28				4.28	17.90	46.81					
2.55	19.63	51.94	67.34	85.90				4.57	18.04	47.60					
2.67	19.86	52.27	67.45	86.15				4.76	18.17	48.24					
2.93	20.26	52.46	67.73	86.40				4.94	18.31	49.03					
3.09	20.64	52.68	68.04	86.72				5.27	18.60	49.93					
3.27	20.91	52.98	68.21	87.02				5.52	19.07	50.98					
3.58	21.31	53.18	68.41	87.22				5.79	19.64	52.08					
3.79	21.85	53.58	68.57	87.45				6.26	19.88	52.90					
4.12	22.02	53.82	68.98	87.78				6.66	20.33	54.75					
4.45	22.15	54.08	69.37	87.99				6.90	20.48	56.95					
4.60	22.37	54.32	69.74	88.30				7.23	20.80	58.45					
4.88	22.75	54.58	70.05	88.72				7.64	21.06	59.72					
5.03	23.05	54.67	70.32	89.01				7.88	21.29	61.44					
5.24	23.40	54.93	70.54	89.40				8.10	21.59	62.95					
5.43	23.72	55.12	70.80	89.73				8.29	21.91	65.06					
5.55	23.86	55.23	71.08	90.04				8.51	22.05	66.08					
5.73	24.29	55.38	71.40	90.63				8.74	22.30	67.92					
5.95	24.67	55.72	71.70	91.03				8.96	22.66	69.66					
6.13	24.85	55.98	72.01	91.29				9.08	22.88	70.80					
6.32	25.03	56.38	72.23	91.93				9.33	23.17	72.19					
6.62	25.37	56.67	72.41	94.58				9.54	23.43	73.35					
6.89	25.64	56.92	72.59	99.18				9.79	24.03	75.01					
7.13	26.01	57.08	72.94	102.91				10.06	24.39	76.48					
7.46	26.16	57.28	73.16	103.87				10.16	24.64	78.00					
7.70	26.47	57.48	73.47	104.34				10.28	25.57	79.26					
7.95	26.78	57.71	73.95	105.26				10.46	26.13	80.63					
8.22	27.30	57.98	74.17	105.85				10.58	26.68	82.29					
8.39	27.58	58.12	74.51	106.64				10.71	27.31	84.01					
8.60	28.02	58.30	74.78	106.95				10.92	27.69	85.47					
9.04	28.30	58.54	75.07	107.36				11.25	28.37	87.57					
9.24	28.67	58.64	75.36	107.97				11.42	28.85	89.71					
9.61	29.24	58.77	75.68	108.36				11.80	29.63	91.26					
10.05	29.44	59.03	75.77	108.88				12.02	30.18	92.83					
10.58	29.74	59.21	75.94	109.45				12.29	30.76	94.40					
11.35	30.25	59.44	76.25	110.20				12.63	31.18	96.05					
11.63	30.48	59.65	76.50	110.77				12.99	31.74	97.68					
12.00	31.23	59.79	76.68	111.44				13.41	32.12	98.85					
12.41	31.70	60.03	77.02	111.95				13.65	32.57	100.45					
12.66	32.03	60.32	77.52	112.40				13.90	33.00	101.40					
13.07	32.47	60.50	77.92	113.32				14.05	33.54	102.74					
13.25	32.72	60.86	78.17	113.96				14.28	34.10	104.18					
13.56	33.36	61.12	78.66	114.57				14.47	34.67	106.01					
13.77	33.94	61.49	78.95	115.01				14.72	35.21	107.21					
13.92	34.57	61.81	79.34	115.67				14.97	35.68	108.61					
14.19	35.26	62.15	79.66	116.11				15.19	36.21	109.91					
14.50	35.95	62.46	80.09	116.69				15.41	37.26	111.57					
14.66	36.67	62.75	80.34	117.12				15.72	37.63	113.27					
14.84	37.61	62.98	80.44	117.80				15.82	38.19	115.60					
15.07	38.79	63.28	80.74	118.43				15.92	38.65	117.19					
15.47	39.32	63.56	81.06	119.10				16.01	39.00	119.01					
15.70	40.29	63.82	81.36	119.56				16.11	39.50	121.07					
15.93	41.13	64.02	81.49	120.19				16.21	39.85	122.30					
16.03	42.09	64.27	81.68	120.79				16.31	40.40	123.48					
16.18	43.17	64.44	81.84	121.49				16.41	40.86	124.92					
16.30	44.22	64.65	82.00	122.05				16.51	41.12	125.91					
16.52	44.68	64.77	82.32	123.08				16.60	41.60	127.22					
16.67	45.98	64.86	82.65					16.70	42.00	128.45					
16.71	46.92	64.98	83.01					16.80	42.49	129.52					
17.02	48.25	65.26	83.32					16.94	43.04	131.12					
17.55	49.03	65.49	83.63					17.07	43.65	132.27					
17.70	49.58	65.66	83.90					17.21	44.04	133.35					
17.95	50.01	65.99	84.14					17.35	44.60						
18.36	50.38	66.28	84.36					17.49	44.91						

CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

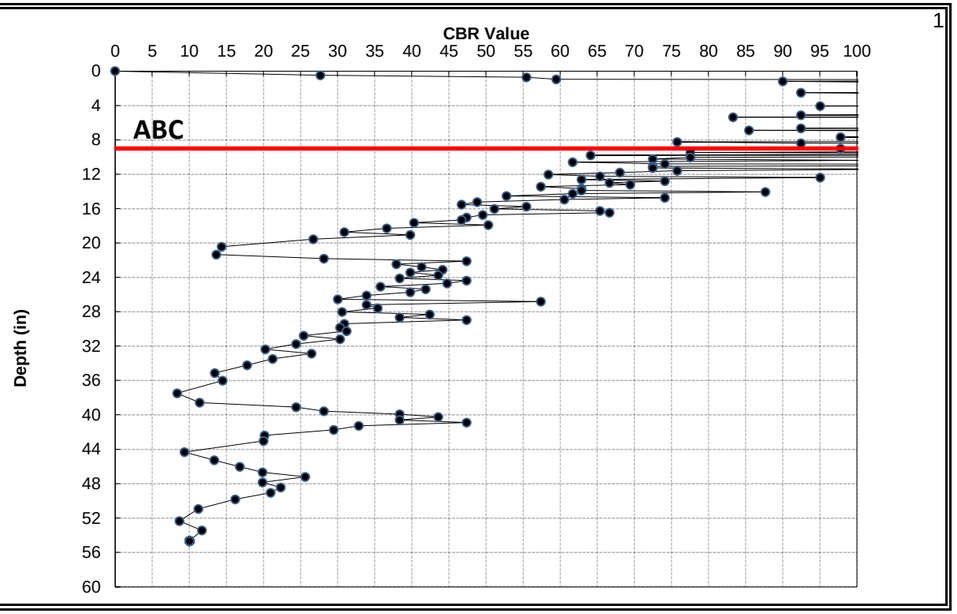
GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-1 LT OSL
-L- Sta. 15+20 1.4 LT EOP
Datum = ABC
DCP
4.0 Fill
08/20/24

Interval 0.0 to 9.0	
# of Values	86
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	27.7

Interval 9.0 to 54.7	
# of Values	109
Avg CBR	49.3
Wghtd Avg.	31.7
Max CBR	100+
Min CBR	8.4

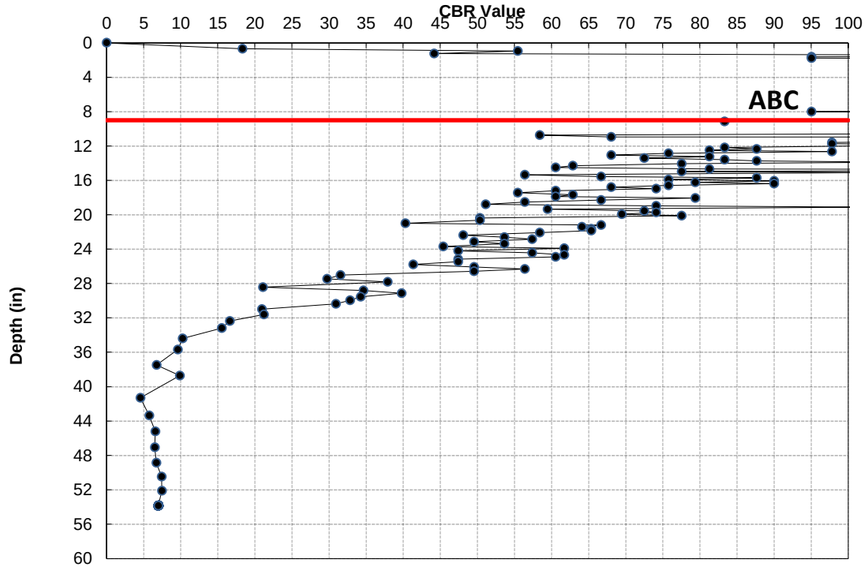


1

C-2 RT OSL
-L- Sta. 15+67 1.7 LT EOP
Datum = ABC
DCP
5.0 Fill
08/20/24

Interval 0.0 to 9.0	
# of Values	101
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	18.3

Interval 9.0 to 53.8	
# of Values	119
Avg CBR	73.4
Wghtd Avg.	35.5
Max CBR	100+
Min CBR	4.6



2

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

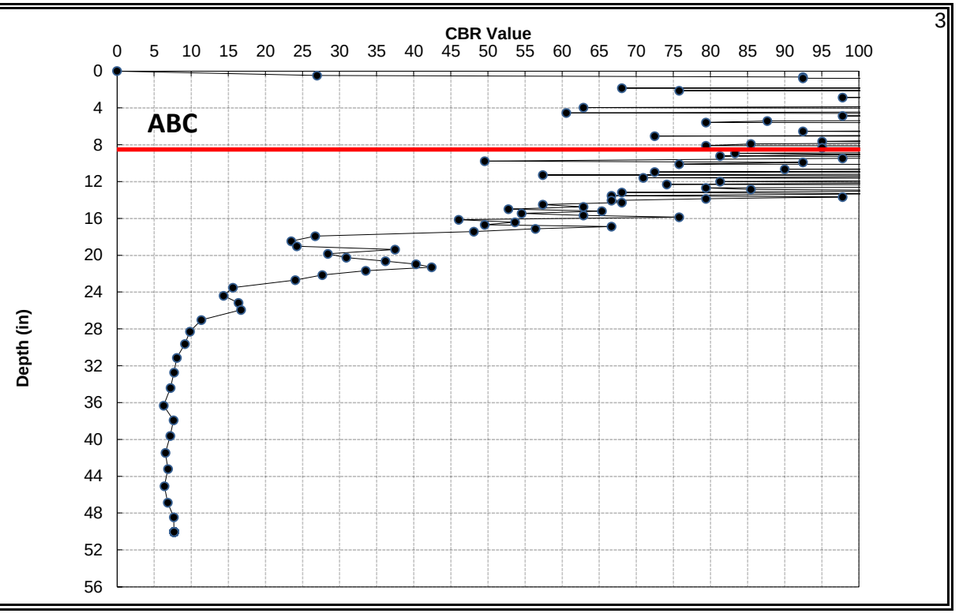
GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-3 RTL (RT)
-L- Sta. 17+52 9.0 LT EOP
Datum = ABC
DCP
At Grade
08/20/24

Interval 0.0 to 8.5	
# of Values	77
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	26.9

Interval 8.5 to 50.0	
# of Values	82
Avg CBR	64.1
Wghtd Avg.	25.9
Max CBR	100+
Min CBR	6.3

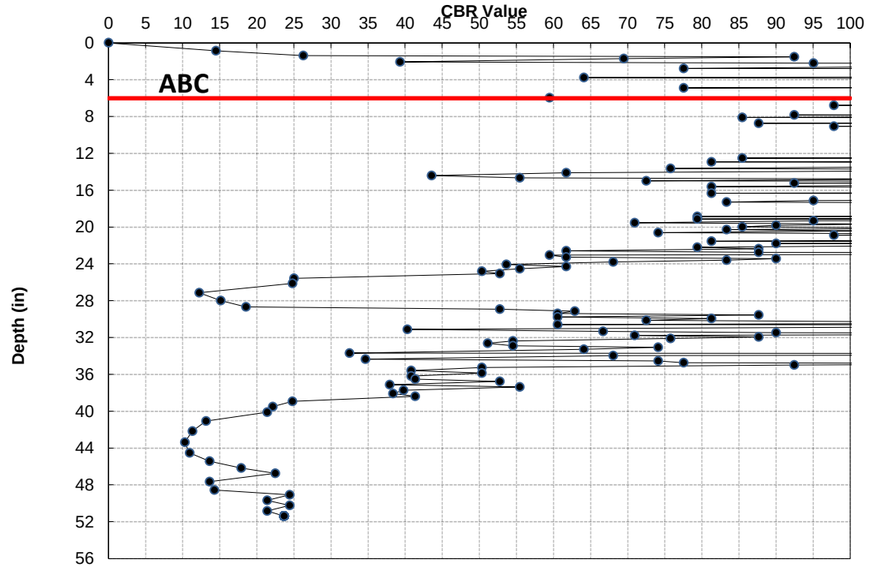


3

C-4 RTL (LT)
-L- Sta. 20+52 2.2 LT EOP
Datum = ABC
DCP
3.5 Fill
08/20/24

Interval 0.0 to 6.0	
# of Values	52
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	14.5

Interval 6.0 to 51.4	
# of Values	251
Avg CBR	100+
Wghtd Avg.	77.6
Max CBR	100+
Min CBR	10.3



4

CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

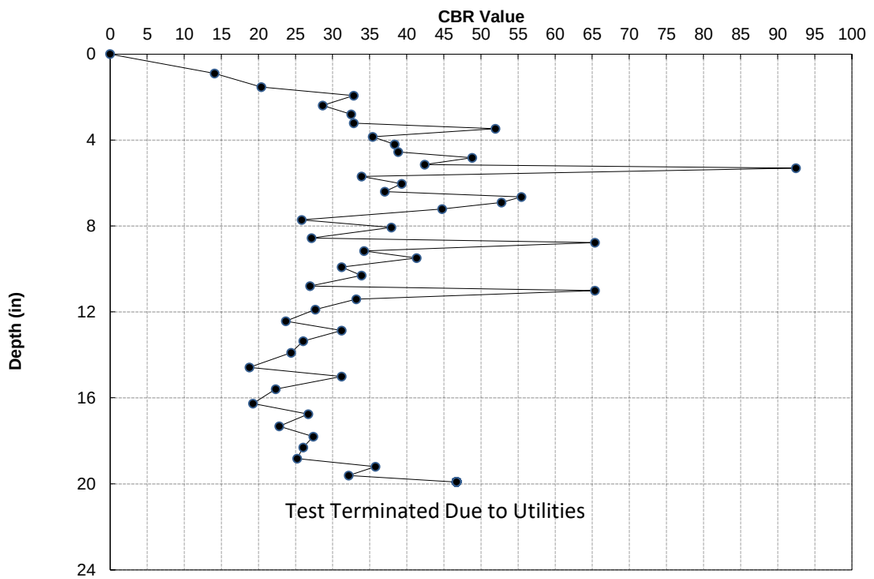
FILE	DCP Graphs C-1- to C-20

C-5 RTL (LT) — 5

-L- Sta. 26+16 0.8 LT FW
Datum = SG (A-4)
DCP
At Grade
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 19.9	
# of Values	47
Avg CBR	35.4
Wghtd Avg.	31.3
Max CBR	92.5
Min CBR	14.1

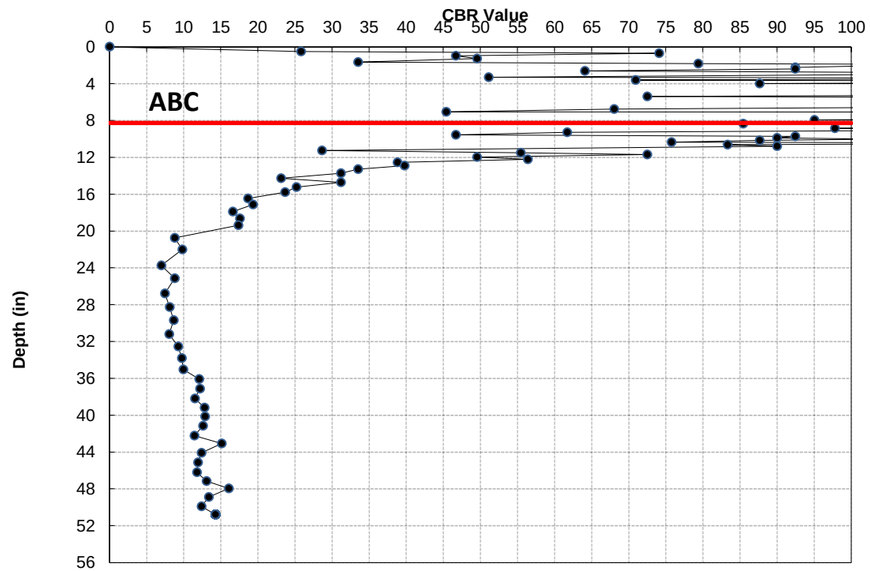


C-6 LT LN — 6

-L- Sta. 31+53 0.8 LT FW
Datum = ABC
DCP
At Grade
08/20/24

Interval 0.0 to 8.3	
# of Values	59
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	25.8

Interval 8.3 to 50.8	
# of Values	62
Avg CBR	46.0
Wghtd Avg.	18.8
Max CBR	100+
Min CBR	7.0



CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

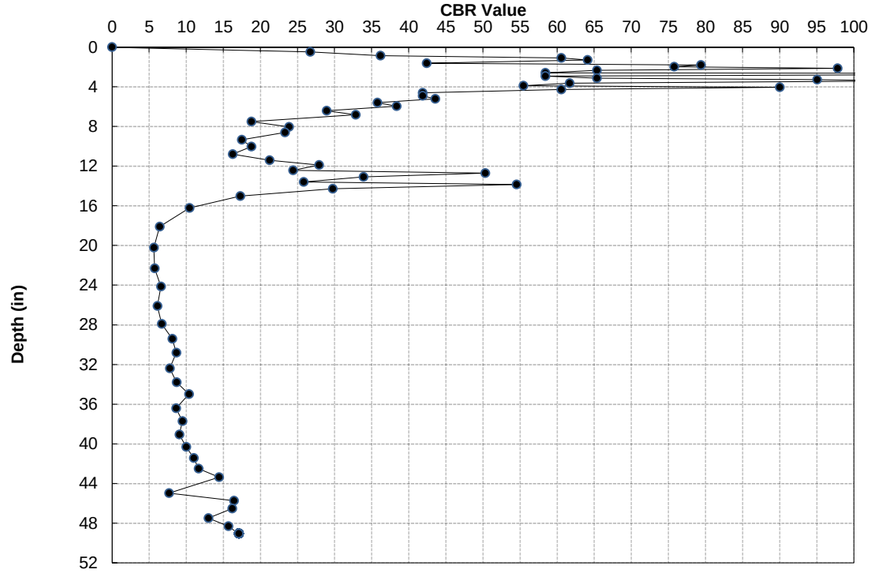
FILE	DCP Graphs C-1- to C-20

C-7 CTL — 7

-L- Sta. 31+53 15.5 LT FW
Datum = SG (A-4(0))
DCP
At Grade
08/19/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 49.1	
# of Values	66
Avg CBR	34.4
Wghtd Avg.	17.2
Max CBR	100+
Min CBR	5.6

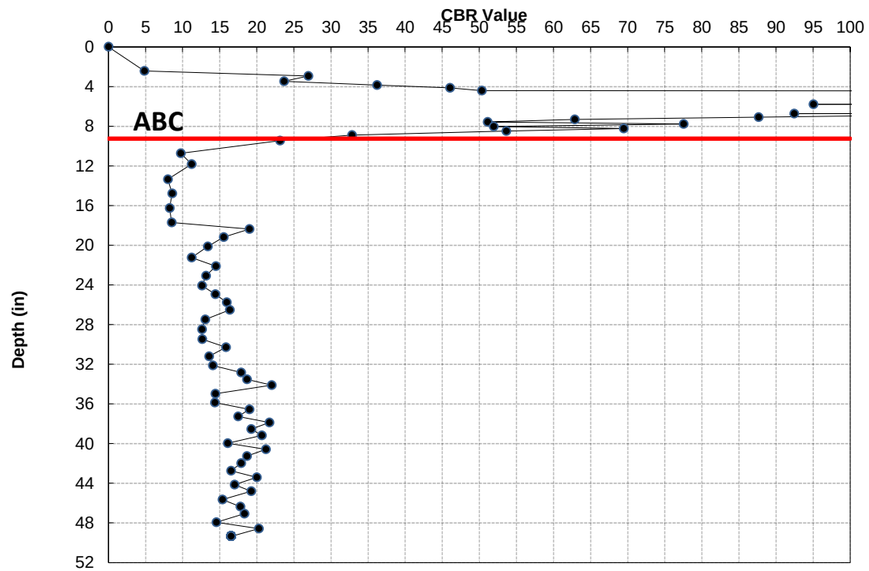


C-8 RT LN — 8

-L- Sta. 31+53 0.6 LT FW
Datum = ABC
DCP
At Grade
08/19/24

Interval 0.0 to 9.5	
# of Values	41
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 9.5 to 49.4	
# of Values	46
Avg CBR	15.6
Wghtd Avg.	14.6
Max CBR	22.0
Min CBR	8.0



CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

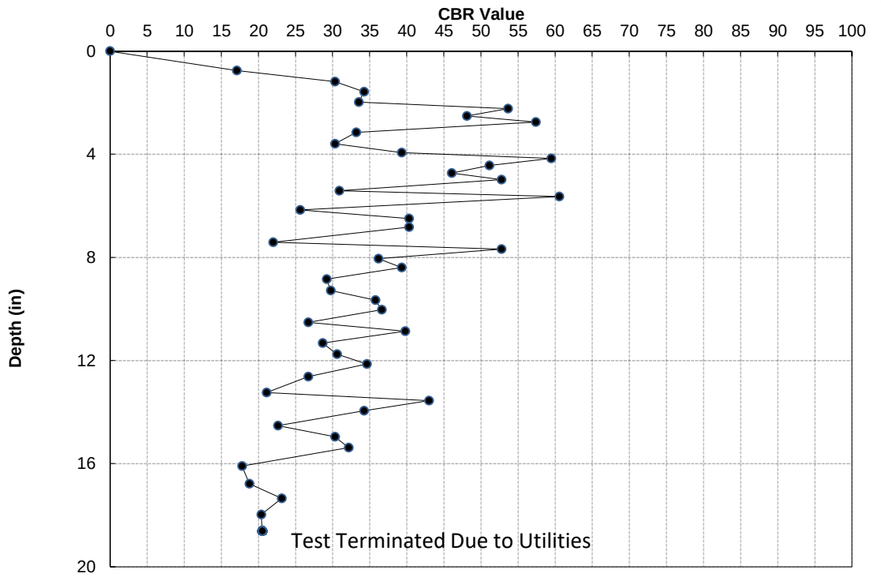
FILE	DCP Graphs C-1- to C-20

C-9 RTL (LT) — 9

-L- Sta. 37+33 1.0 LT FW
Datum = SG (A-4)
DCP
At Grade
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 18.6	
# of Values	44
Avg CBR	34.9
Wghtd Avg.	31.4
Max CBR	60.6
Min CBR	17.1

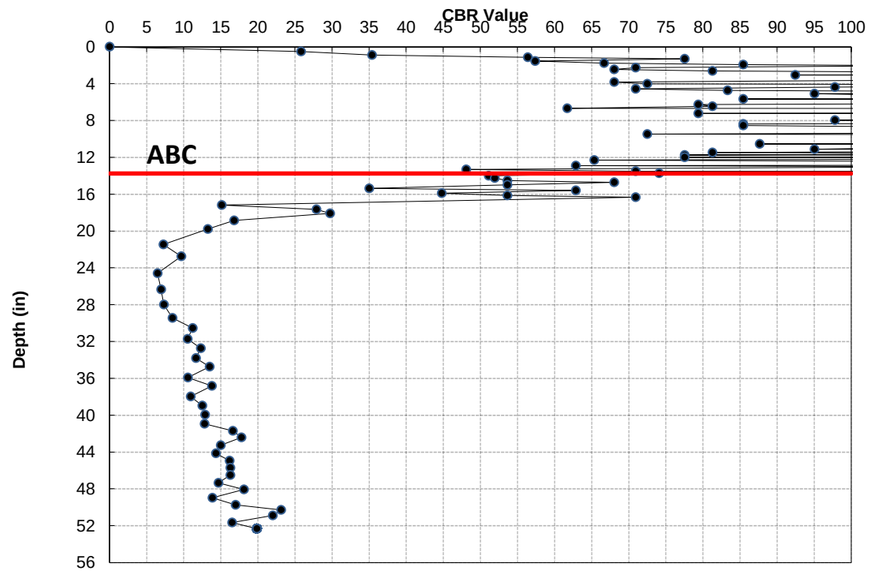


C-10 LT PS — 10

-L- Sta. 43+76 0.3 RT FW
Datum = ABC
DCP
At Grade
8/20/2024

Interval 0.0 to 13.3	
# of Values	99
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	25.8

Interval 13.3 to 52.3	
# of Values	50
Avg CBR	32.5
Wghtd Avg.	16.3
Max CBR	100+
Min CBR	6.5



CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

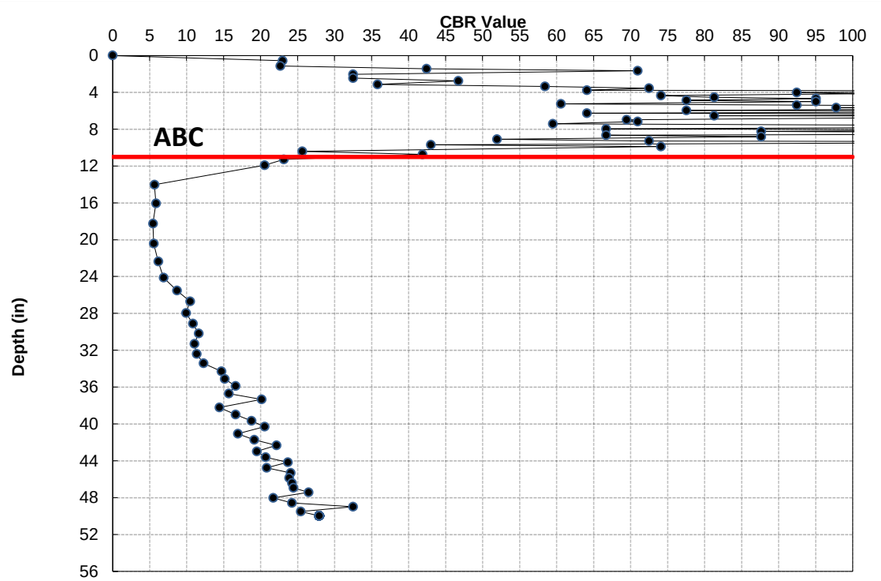
FILE	DCP Graphs C-1- to C-20

C-11 RT PS — 11

-L- Sta. 43+76 0.5 RT FW
Datum = ABC
DCP
At Grade
08/19/24

Interval 0.0 to 11.3	
# of Values	52
Avg CBR	83.0
Wghtd Avg.	63.9
Max CBR	100+
Min CBR	22.6

Interval 11.3 to 50.0	
# of Values	41
Avg CBR	16.9
Wghtd Avg.	13.3
Max CBR	32.5
Min CBR	5.5

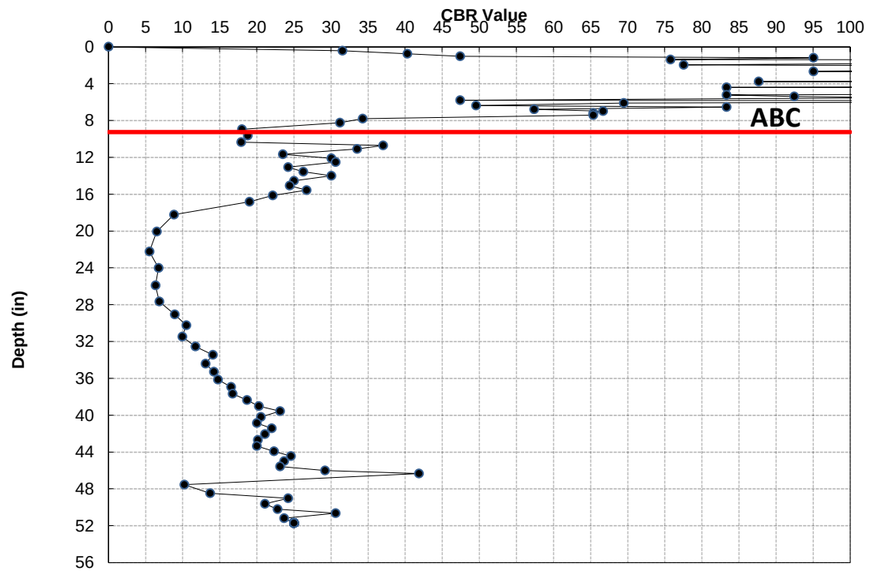


C-12 LT LN — 12

-L- Sta. 56+23 1.2 LT FW
Datum = ABC
DCP
At Grade
08/20/24

Interval 0.0 to 9.6	
# of Values	60
Avg CBR	100+
Wghtd Avg.	88.2
Max CBR	100+
Min CBR	18.0

Interval 9.6 to 51.7	
# of Values	53
Avg CBR	20.1
Wghtd Avg.	16.0
Max CBR	41.9
Min CBR	5.5



CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

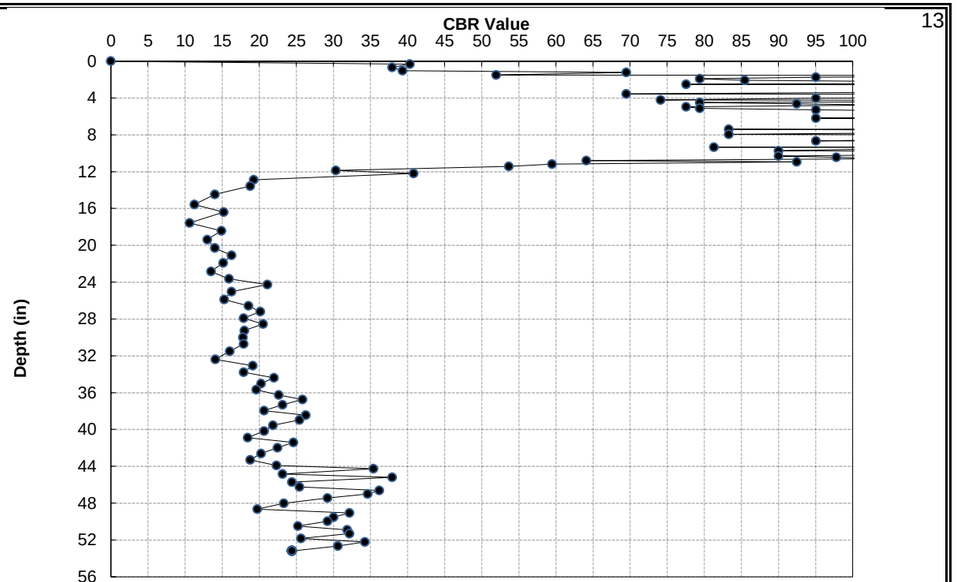
GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-13 CTL
-L- Sta. 56+23 16.0 LT FW
Datum = SG (A-2-4)
DCP
1.5 Fill
08/19/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 53.2	
# of Values	151
Avg CBR	83.2
Wghtd Avg.	38.1
Max CBR	100+
Min CBR	10.6

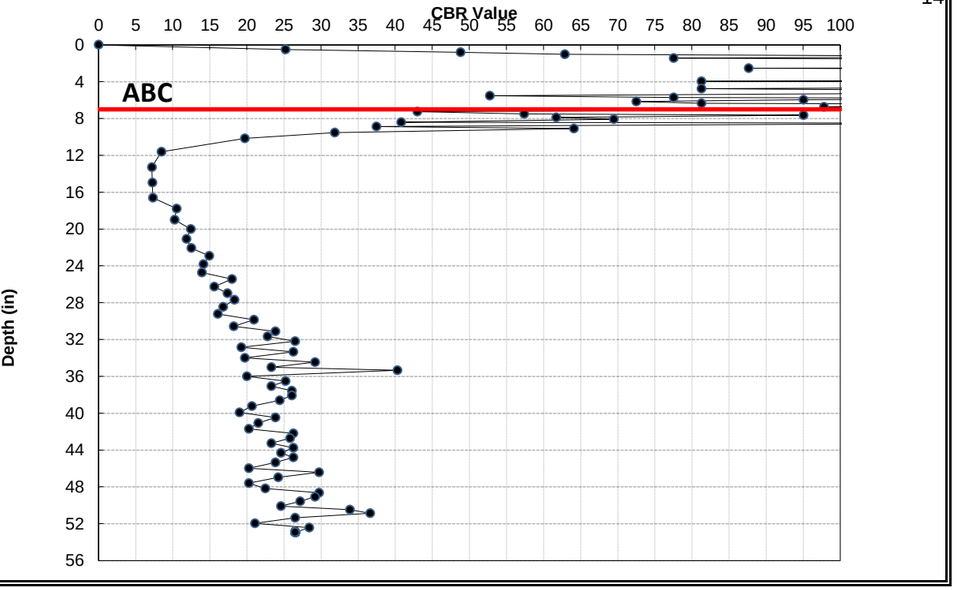


13

C-14 RT LN
-L- Sta. 56+23 1.3 LT FW
Datum = ABC
DCP
At Grade
08/19/24

Interval 0.0 to 6.9	
# of Values	53
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	25.2

Interval 6.9 to 52.9	
# of Values	73
Avg CBR	27.0
Wghtd Avg.	20.5
Max CBR	100+
Min CBR	7.2



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CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

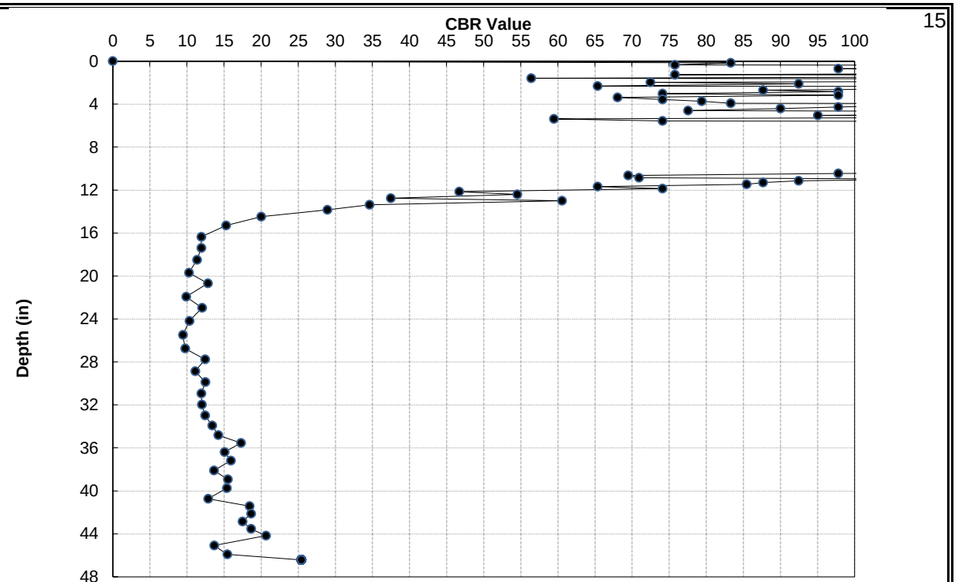
GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-15 LT PS
-L- Sta. 75+87 2.8 RT FW
Datum = SG (A-2-4)
DCP
2.0 Fill
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 46.4	
# of Values	160
Avg CBR	100+
Wghtd Avg.	47.3
Max CBR	100+
Min CBR	9.5

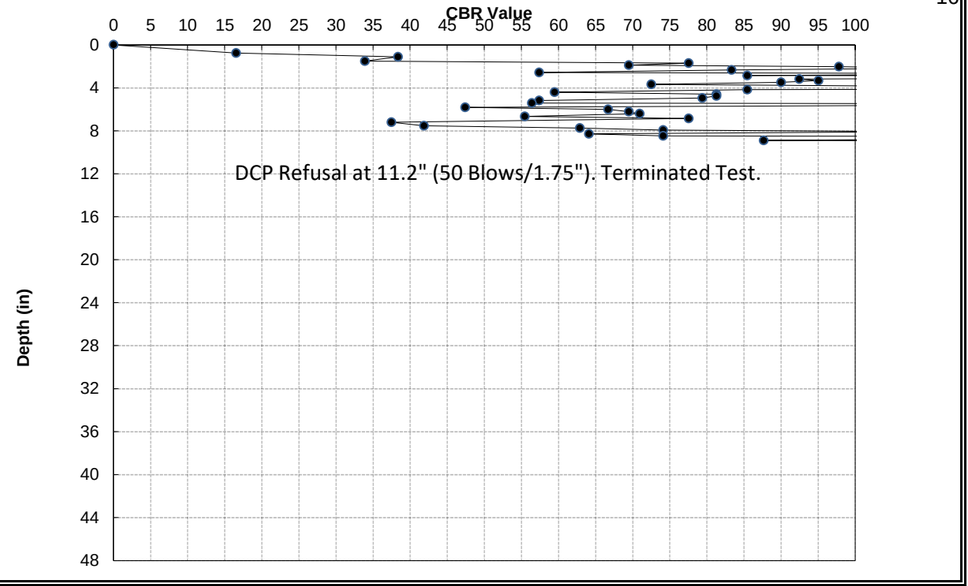


15

C-16 LT LN
-L- Sta. 75+87 3.0 LT FW
Datum = SG (A-2-4)
DCP
1.9 Fill
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 11.2	
# of Values	119
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	16.5



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CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

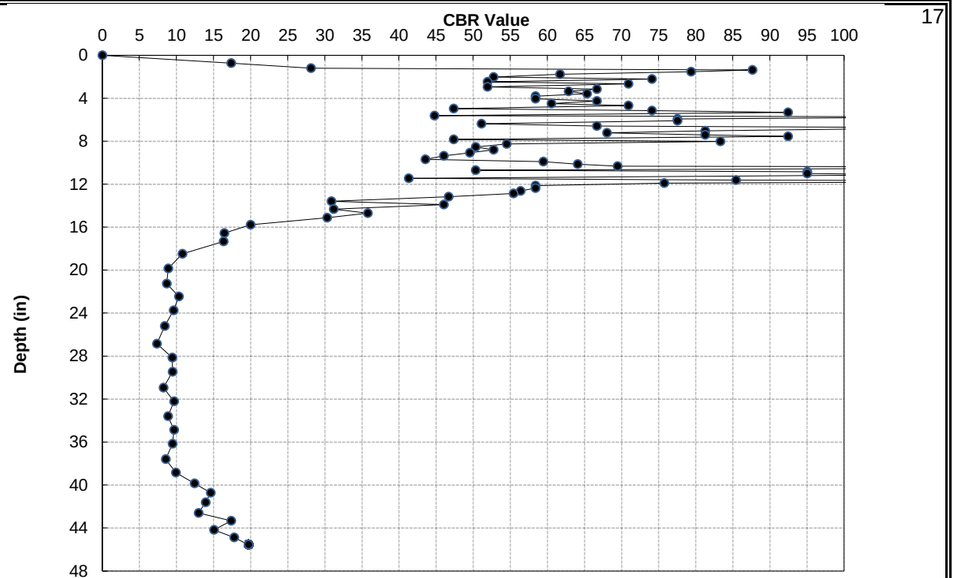
GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-17 CTL
-L- Sta. 75+87 16.0 LT FW
Datum = SG (A-2-4)
DCP
2.5 Fill
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 45.6	
# of Values	90
Avg CBR	50.1
Wghtd Avg.	25.9
Max CBR	100+
Min CBR	7.4

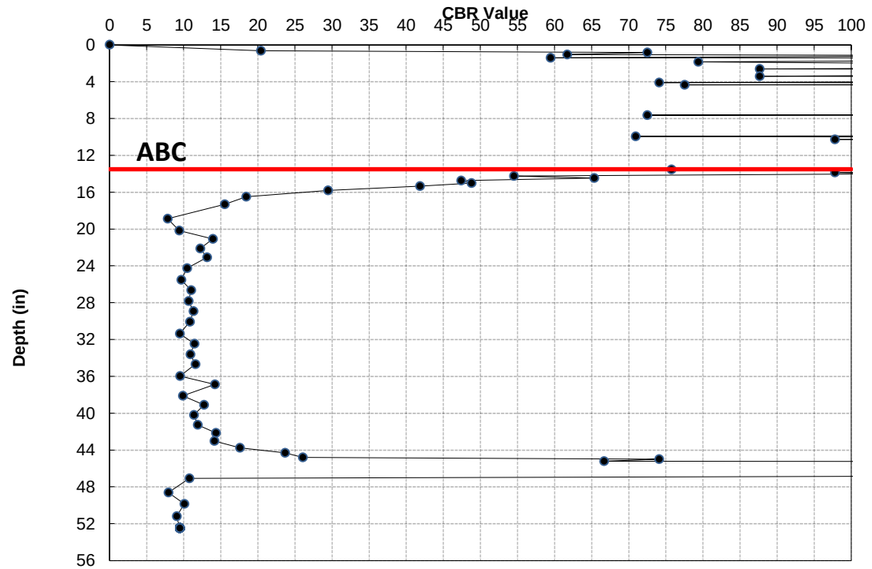


17

C-18 RT LN
-L- Sta. 75+87 1.8 LT FW
Datum = ABC
DCP
2.0 Cut
08/19/24

Interval 0.0 to 13.5	
# of Values	143
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	20.4

Interval 13.5 to 52.5	
# of Values	62
Avg CBR	100+
Wghtd Avg.	20.6
Max CBR	100+
Min CBR	7.8



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CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

Sheet 39

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

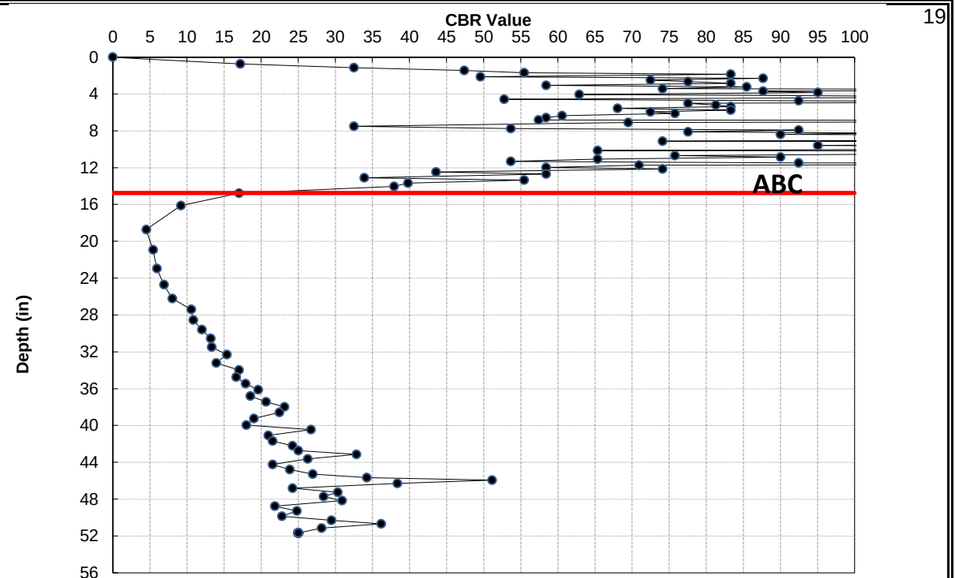
GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-19 RT PS
-L- Sta. 75+87 2.2 RT FW
Datum = ABC
DCP
2.0 Cut
08/19/24

Interval 0.0 to 14.8	
# of Values	73
Avg CBR	88.3
Wghtd Avg.	68.8
Max CBR	100+
Min CBR	17.0

Interval 14.8 to 51.7	
# of Values	47
Avg CBR	21.2
Wghtd Avg.	16.2
Max CBR	51.1
Min CBR	4.5

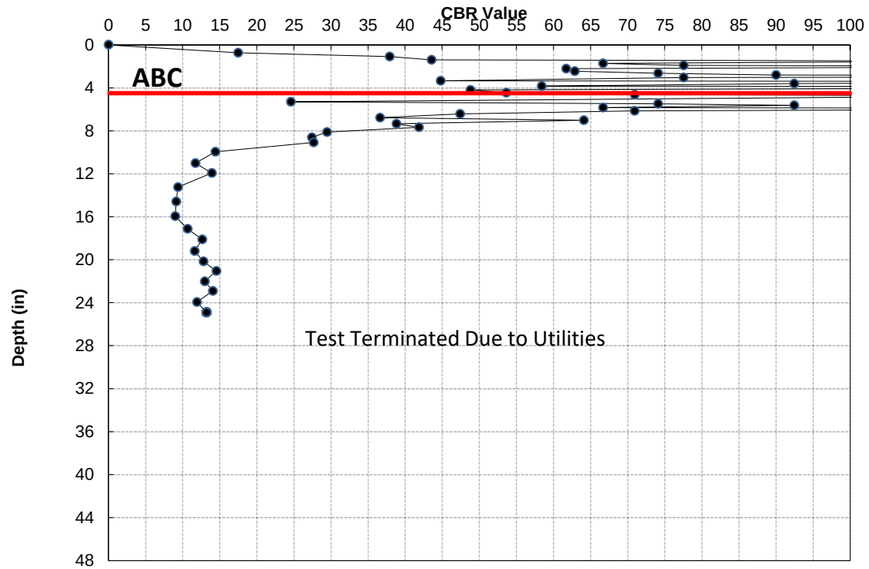


19

C-20 RTL (RT)
-L- Sta. 84+66 1.2 LT FW
Datum = ABC
DCP
1.0 Cut
08/20/24

Interval 0.0 to 4.6	
# of Values	21
Avg CBR	85.9
Wghtd Avg.	62.6
Max CBR	100+
Min CBR	17.5

Interval 4.6 to 24.9	
# of Values	30
Avg CBR	36.7
Wghtd Avg.	19.1
Max CBR	100+
Min CBR	9.0



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CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-21 LT PS — 21

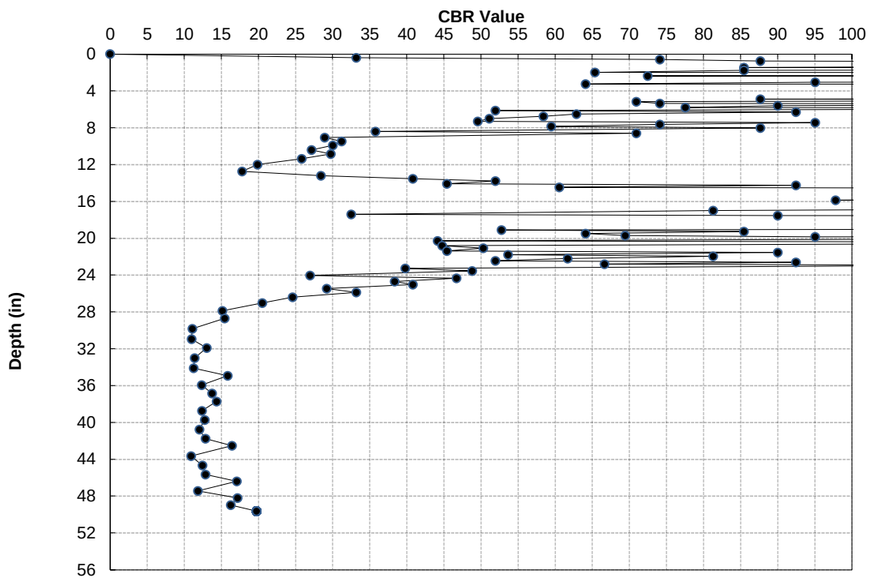
-L- Sta. 97+01 2.3 RT FW

Datum = SG (A-2-4)

DCP

2.3 Fill

08/20/24



Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 49.6	
# of Values	169
Avg CBR	100+
Wghtd Avg.	46.3
Max CBR	100+
Min CBR	10.9

C-22 RT PS — 22

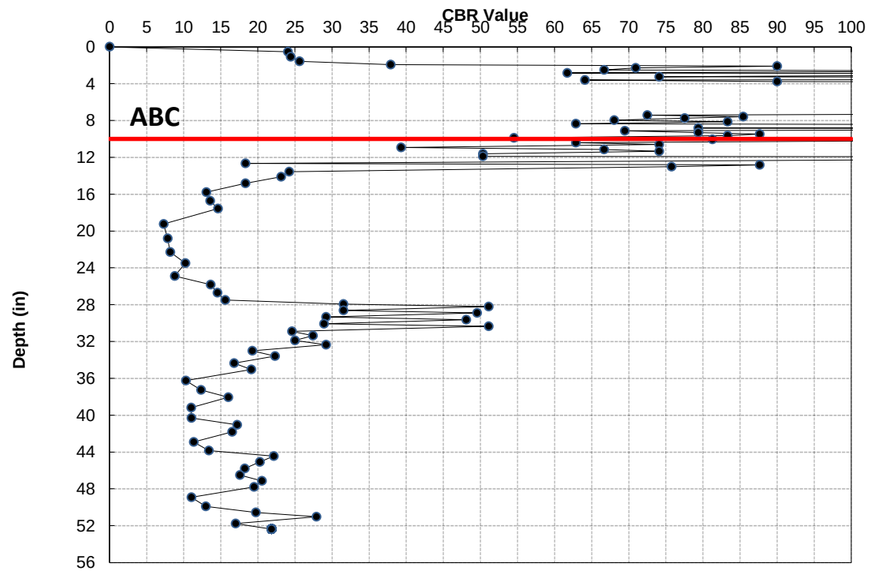
-L- Sta. 97+01 1.5 RT FW

Datum = ABC

DCP

At Grade

08/20/24



Interval 0.0 to 10.2	
# of Values	67
Avg CBR	100+
Wghtd Avg.	93.4
Max CBR	100+
Min CBR	24.0

Interval 10.2 to 52.4	
# of Values	62
Avg CBR	29.3
Wghtd Avg.	18.9
Max CBR	100+
Min CBR	7.3

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-23 RTL (LT) — 23

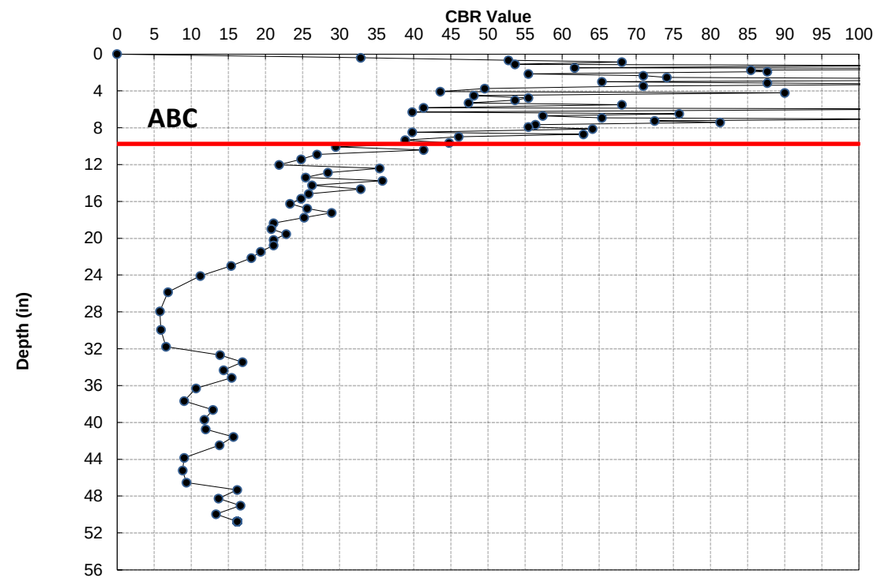
-L- Sta. 116+86 1.1 LT FW

Datum = ABC

DCP

At Grade

08/20/24



Interval 0.0 to 10.1	
# of Values	44
Avg CBR	68.8
Wghtd Avg.	60.3
Max CBR	100+
Min CBR	29.5

Interval 10.1 to 50.8	
# of Values	48
Avg CBR	18.7
Wghtd Avg.	15.0
Max CBR	41.3
Min CBR	5.8

C-24 LT LN — 24

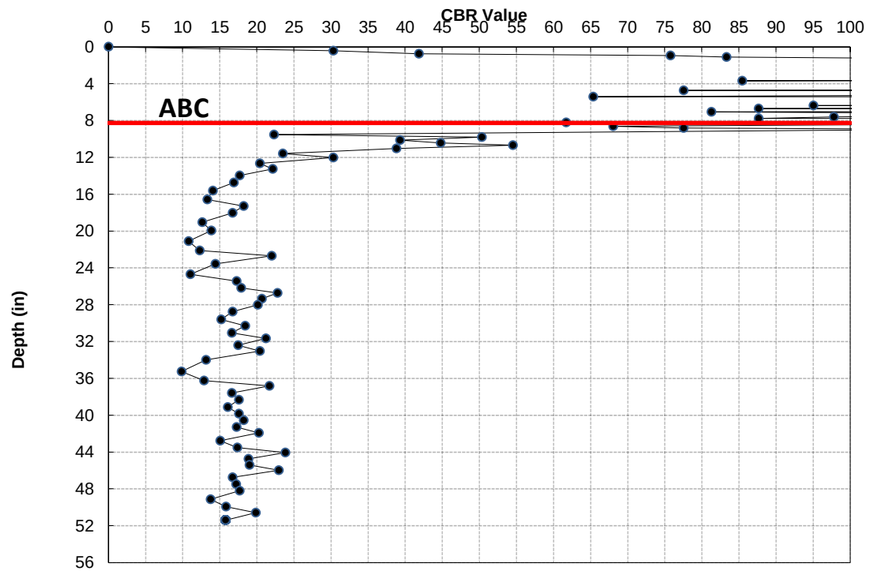
-L- Sta. 121+86 0.6 LT FW

Datum = ABC

DCP

1.8 Fill

08/20/24



Interval 0.0 to 8.3	
# of Values	82
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	30.3

Interval 8.3 to 51.4	
# of Values	63
Avg CBR	24.6
Wghtd Avg.	18.8
Max CBR	100+
Min CBR	9.8

CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

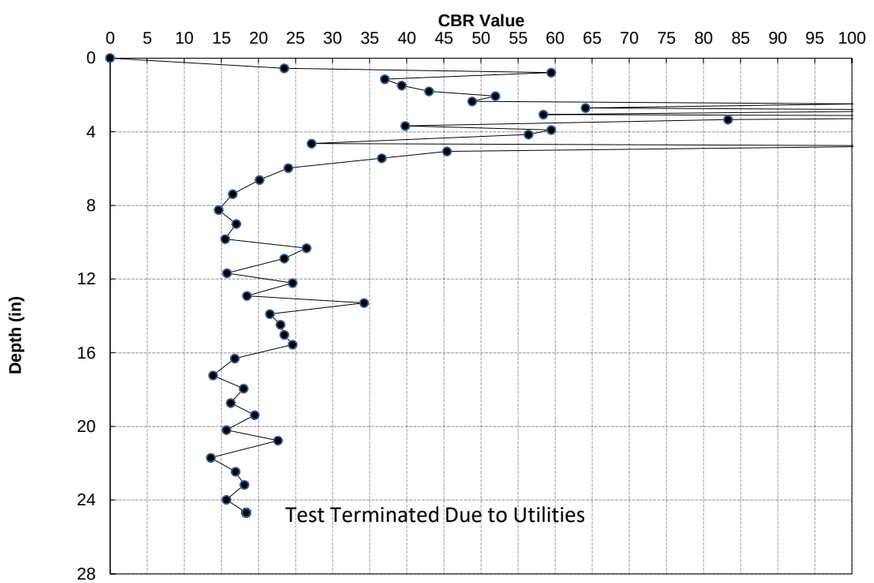
FILE	DCP Graphs C-1- to C-20

C-25 CTL — 25

-L- Sta. 121+86 16.0 LT FW
Datum = SG (A-4(0))
DCP
1.5 Fill
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 24.7	
# of Values	48
Avg CBR	37.4
Wghtd Avg.	25.5
Max CBR	100+
Min CBR	13.6

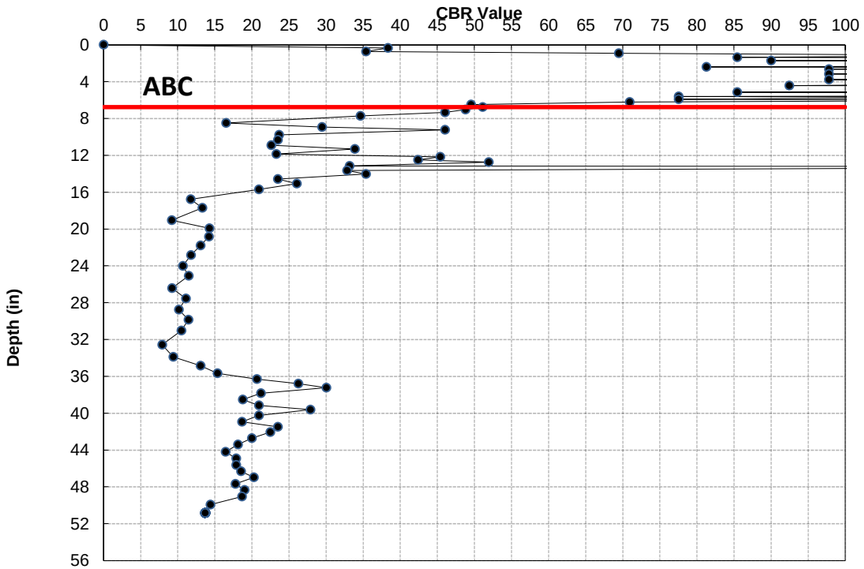


C-26 RT LN — 26

-L- Sta. 121+86 0.6 LT FW
Datum = ABC
DCP
2.0 Fill
08/20/24

Interval 0.0 to 6.8	
# of Values	53
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	35.4

Interval 6.8 to 50.8	
# of Values	62
Avg CBR	24.1
Wghtd Avg.	18.0
Max CBR	100+
Min CBR	7.9



CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

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PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

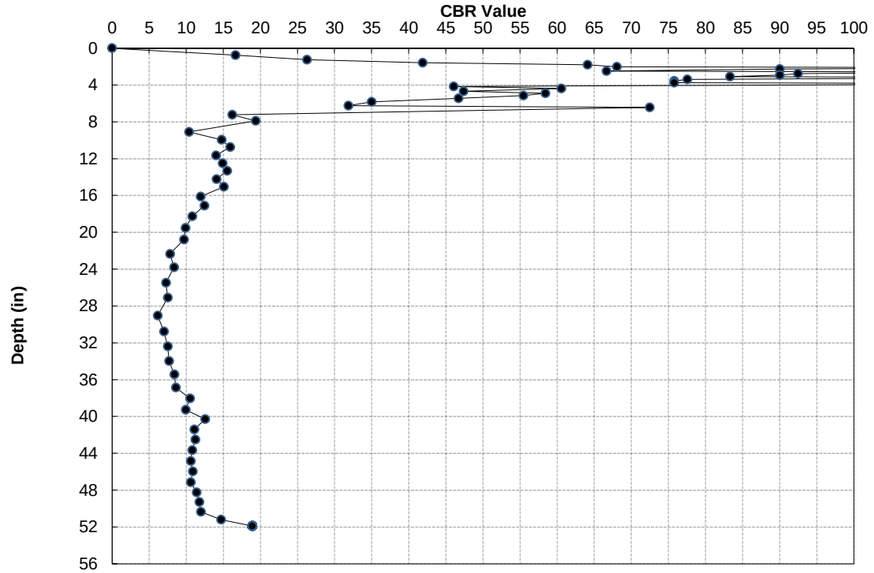
FILE	DCP Graphs C-1- to C-20

C-27 RTL (LT) — 27

-L- Sta. 125+29 0.7 LT FW
Datum = SG (A-2-4)
DCP
1.1 Fill
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 51.9	
# of Values	65
Avg CBR	35.0
Wghtd Avg.	16.0
Max CBR	100+
Min CBR	6.1

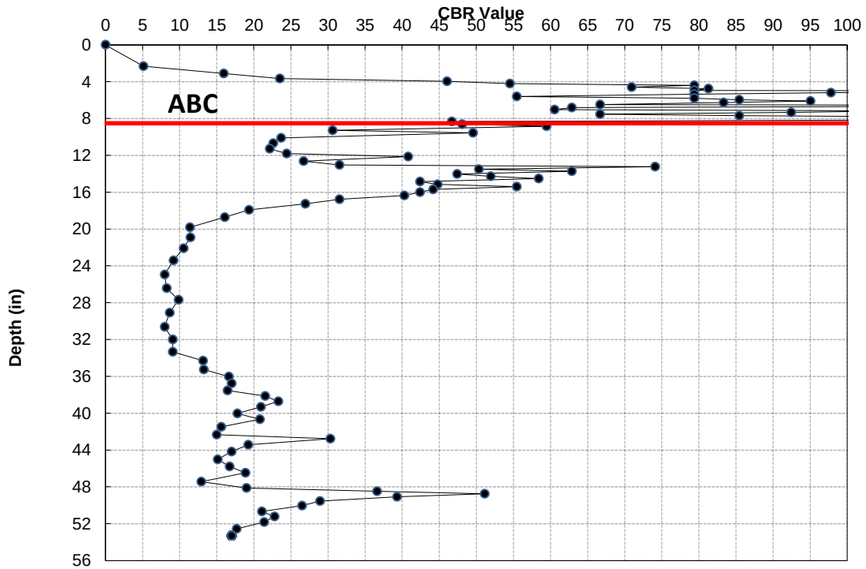


C-28 LT LN — 28

-L- Sta. 137+61 5.3 LT EOP
Datum = ABC
DCP
At Grade
08/20/24

Interval 0.0 to 8.6	
# of Values	30
Avg CBR	77.8
Wghtd Avg.	47.4
Max CBR	0.0
Min CBR	0.0

Interval 8.6 to 53.3	
# of Values	67
Avg CBR	26.7
Wghtd Avg.	19.3
Max CBR	74.1
Min CBR	8.0



CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-29 LTL (I) — 29

-L- Sta. 137+61 31.1 LT EOP

Datum = SG (A-4)

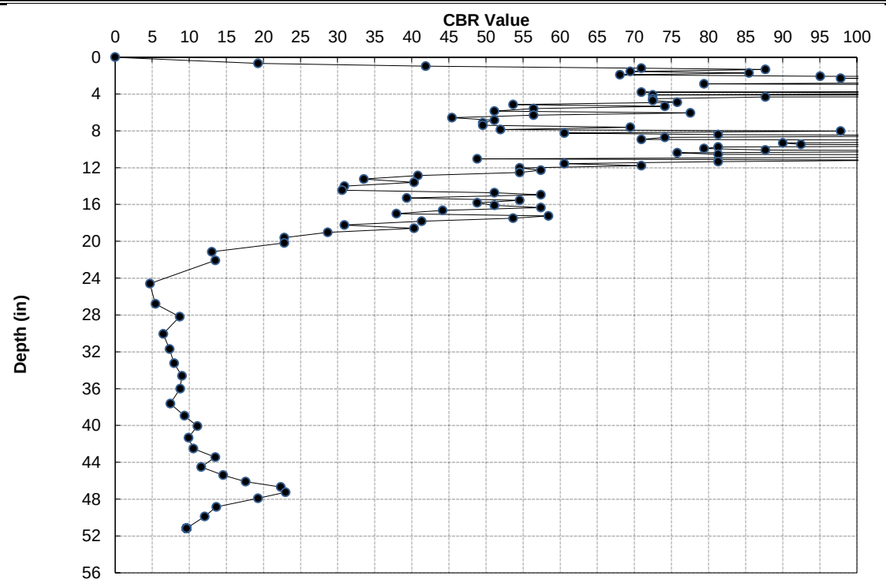
DCP

1.6 Fill

08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 51.2	
# of Values	117
Avg CBR	68.7
Wghtd Avg.	30.3
Max CBR	100+
Min CBR	4.7



C-30 RT LN — 30

-L- Sta. 137+61 19.0 LT EOP

Datum = ABC

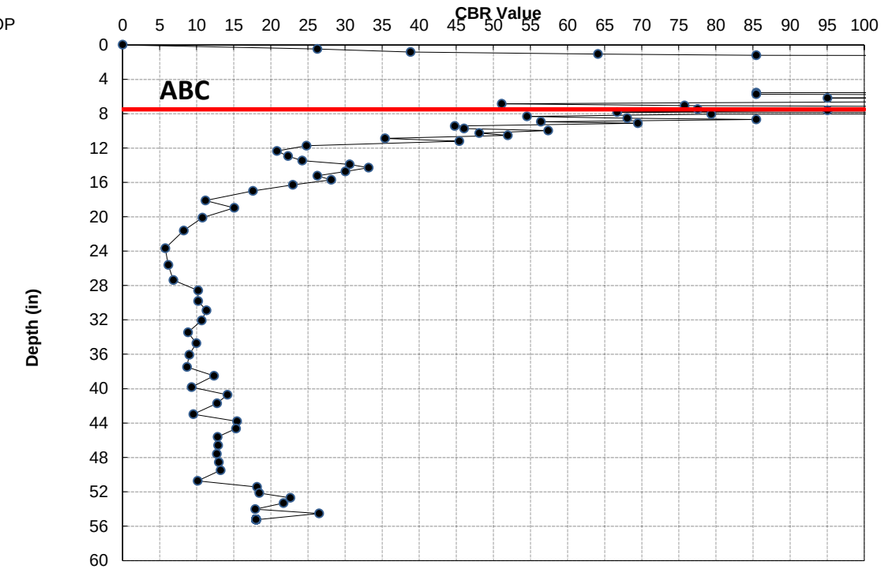
DCP

1.8 Fill

8/20/2024

Interval 0.0 to 7.5	
# of Values	69
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	26.3

Interval 7.5 to 55.2	
# of Values	62
Avg CBR	30.2
Wghtd Avg.	16.6
Max CBR	100+
Min CBR	5.8



CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

Sheet 42

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-31 RTL (RT) — 31

-L- Sta. 137+61 1.4 LT EOP

Datum = ABC

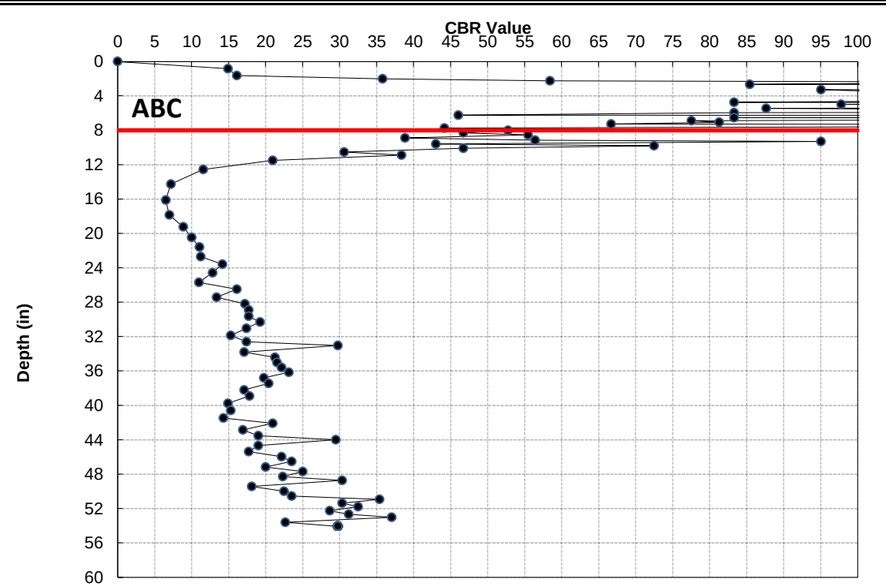
DCP

At Grade

08/20/24

Interval 0.0 to 8.0	
# of Values	52
Avg CBR	100+
Wghtd Avg.	92.0
Max CBR	100+
Min CBR	14.9

Interval 8.0 to 54.1	
# of Values	67
Avg CBR	24.5
Wghtd Avg.	18.7
Max CBR	95.0
Min CBR	6.5



C-32 LT OSL — 32

-Y- Sta. 16+95 3.6 LT EOP

Datum = ABC

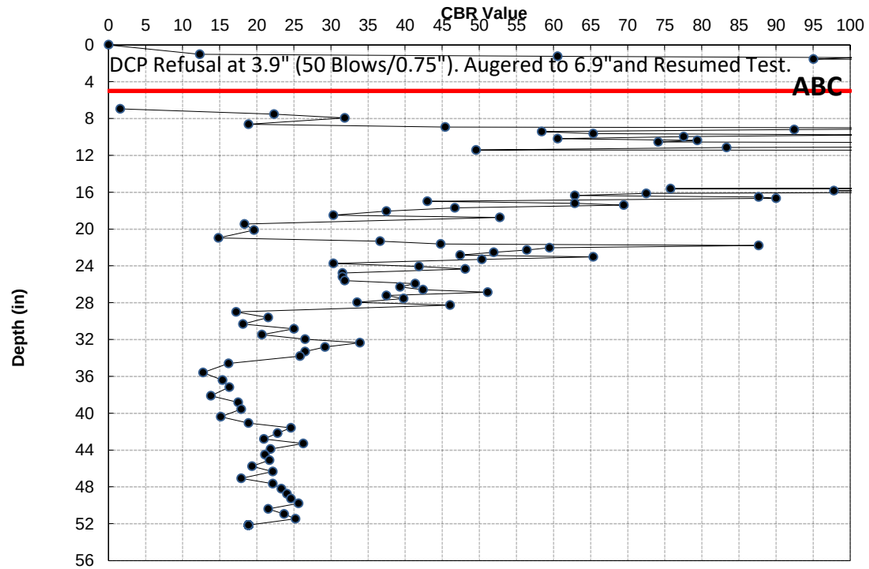
DCP

2.0 Fill

08/20/24

Interval 0.0 to 6.9	
# of Values	74
Avg CBR	100+
Wghtd Avg.	96.7
Max CBR	100+
Min CBR	1.6

Interval 6.9 to 52.2	
# of Values	143
Avg CBR	89.5
Wghtd Avg.	42.8
Max CBR	100+
Min CBR	12.8



CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-33 CTL

-Y- Sta. 16+95 6.6 LT FY (FR LT LN)

Datum = SG (A-4(1))

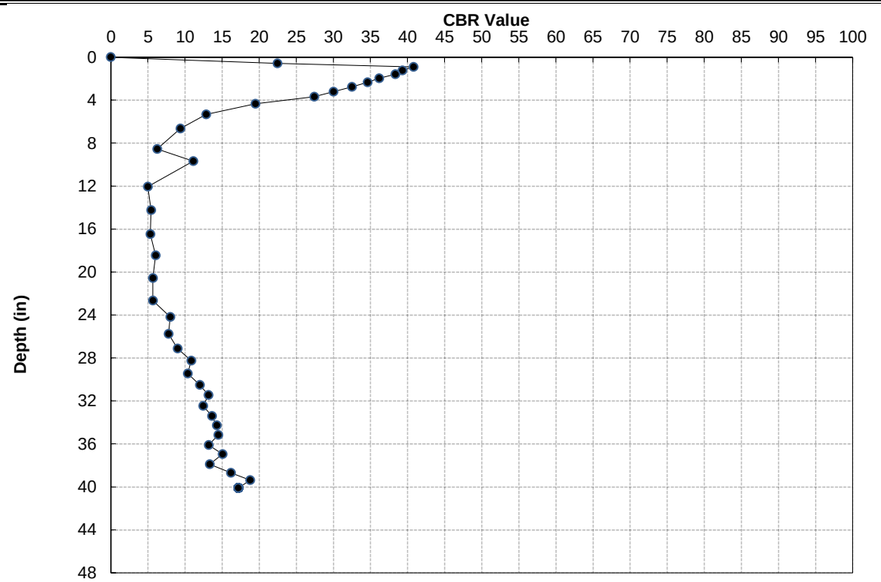
DCP

At Grade

08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 40.1	
# of Values	37
Avg CBR	16.6
Wghtd Avg.	11.5
Max CBR	40.8
Min CBR	5.0



33

C-34 RT OSL/RTL

-Y- Sta. 16+95 2.6 LT EOP

Datum = ABC

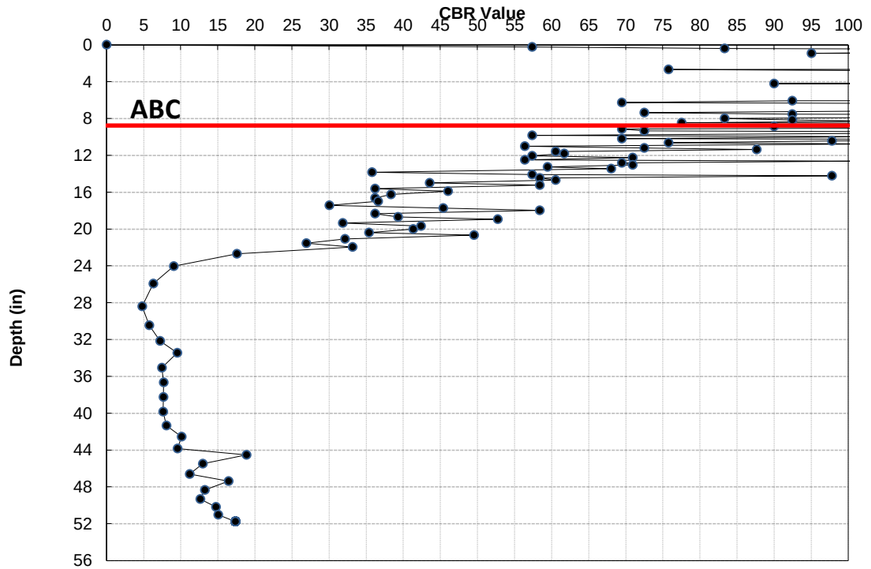
DCP

2.3 Fill

08/20/24

Interval 0.0 to 8.8	
# of Values	128
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	57.4

Interval 8.8 to 51.8	
# of Values	74
Avg CBR	46.6
Wghtd Avg.	22.4
Max CBR	100+
Min CBR	4.8



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CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-35 RT OSL

-Y- Sta. 21+59 7.0 LT FW

Datum = ABC

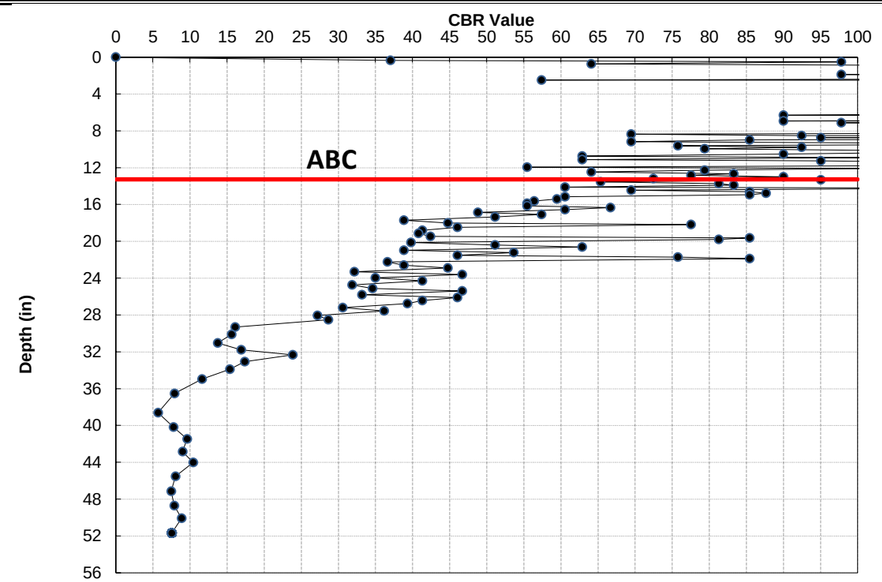
DCP

3.0 Fill

08/20/24

Interval 0.0 to 13.3	
# of Values	113
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	37.0

Interval 13.3 to 51.7	
# of Values	73
Avg CBR	43.2
Wghtd Avg.	24.9
Max CBR	100+
Min CBR	5.7



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C-36 LT LN (O)

-Y- Sta. 25+55 1.0 LT FW

Datum = SG (A-2-4)

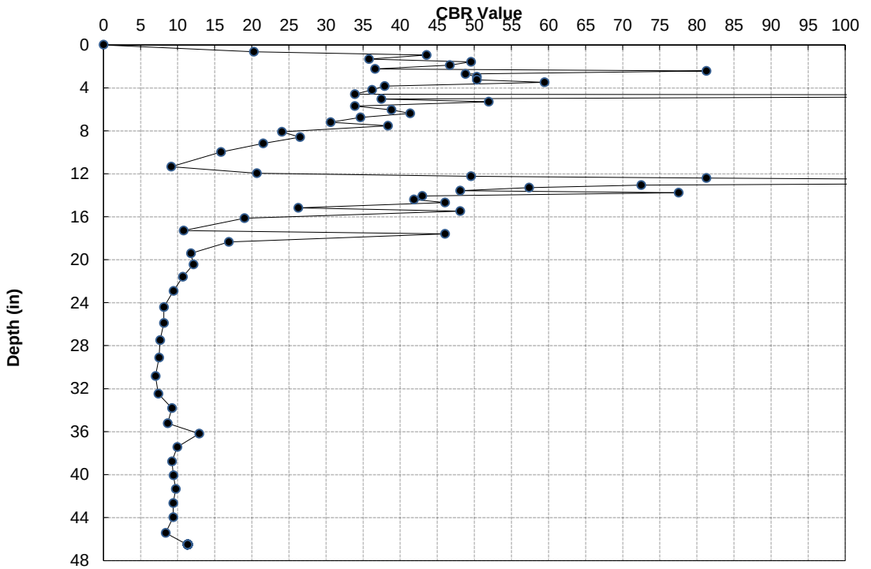
DCP

4.0 Fill

08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 46.5	
# of Values	69
Avg CBR	38.2
Wghtd Avg.	19.1
Max CBR	100+
Min CBR	7.0



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CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

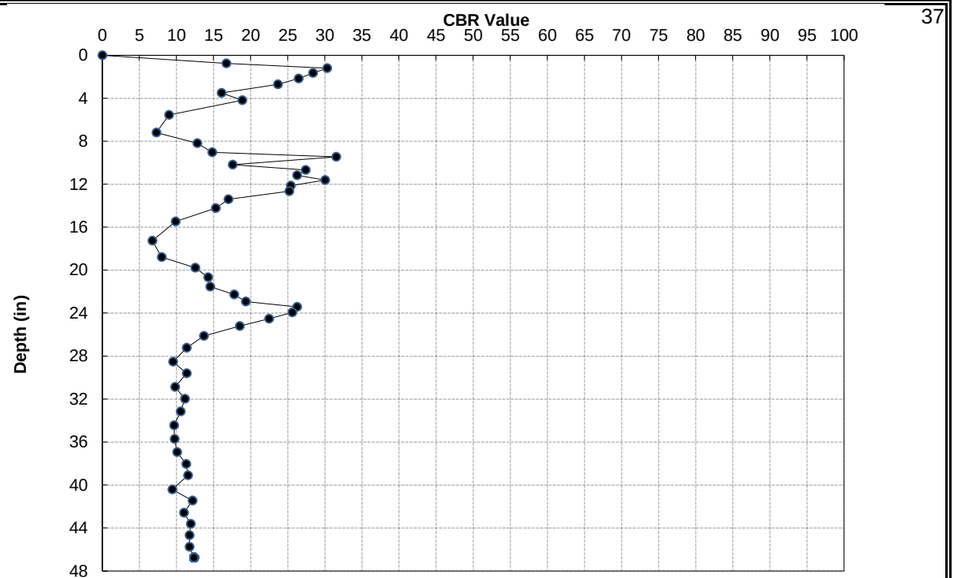
FILE	DCP Graphs C-1- to C-20

C-37 LT LN (I) — 37

-Y- Sta. 25+55 4.5 LT FW
Datum = SG (A-2-4)
DCP
2.0 Fill
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 46.8	
# of Values	51
Avg CBR	16.2
Wghtd Avg.	13.8
Max CBR	31.5
Min CBR	6.8

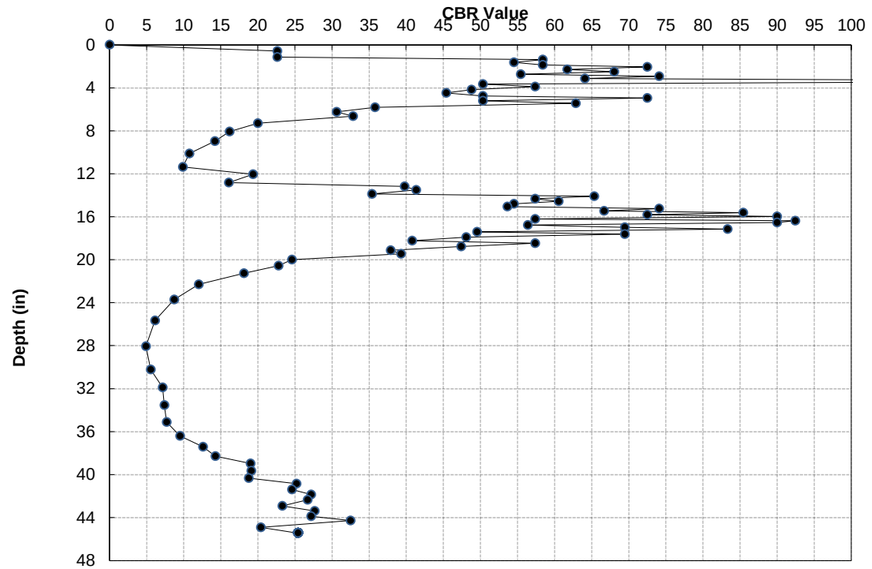


C-38 RT LN — 38

-Y- Sta. 25+55 0.6 LT FW
Datum = SG (A-4)
DCP
At Grade
08/20/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 45.4	
# of Values	85
Avg CBR	42.5
Wghtd Avg.	24.5
Max CBR	100+
Min CBR	4.9



CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

Sheet 44

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

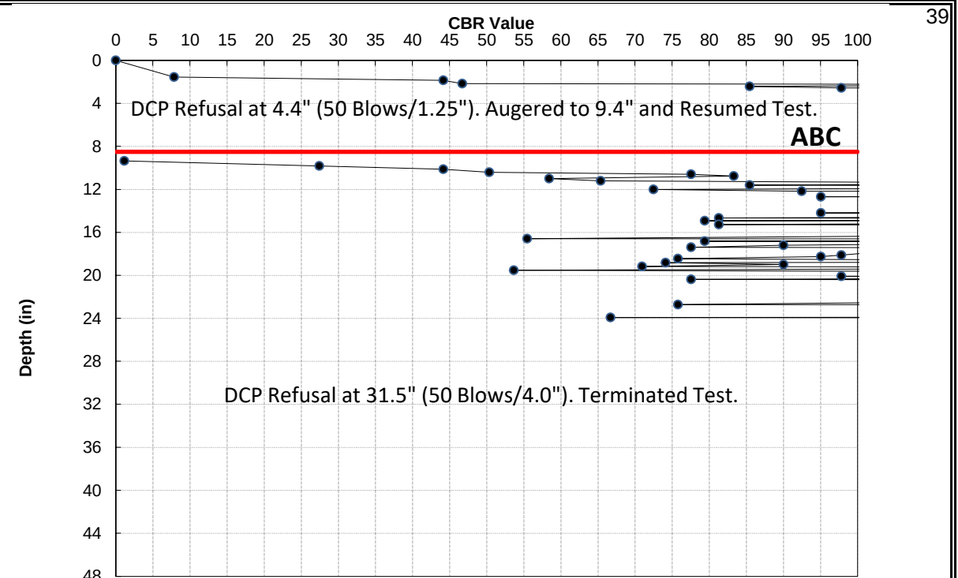
FILE	DCP Graphs C-1- to C-20

C-39 LT OSL — 39

-Y8- Sta. 10+96 1.6 LT FW
Datum = ABC
DCP
5.0 Fill
08/21/24

Interval 0.0 to 9.4	
# of Values	68
Avg CBR	100+
Wghtd Avg.	69.2
Max CBR	100+
Min CBR	1.2

Interval 9.4 to 27.1	
# of Values	180
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	27.4

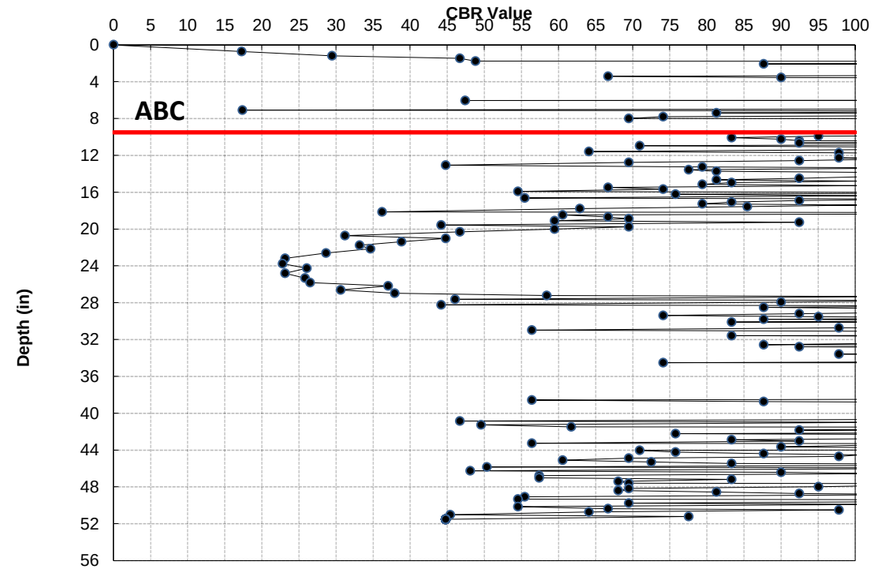


C-40 LTL (RT) — 40

-Y8- Sta. 12+96 6.5 RT FY
Datum = ABC
DCP
5.0 Fill
08/21/24

Interval 0.0 to 9.5	
# of Values	120
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	17.3

Interval 9.5 to 51.5	
# of Values	275
Avg CBR	100+
Wghtd Avg.	92.8
Max CBR	100+
Min CBR	22.8



CAROLINAS GEOTECHNICAL GROUP

CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-41 RT ISL — 41

-Y8- Sta. 13+10 16.5 RT FY

Datum = ABC

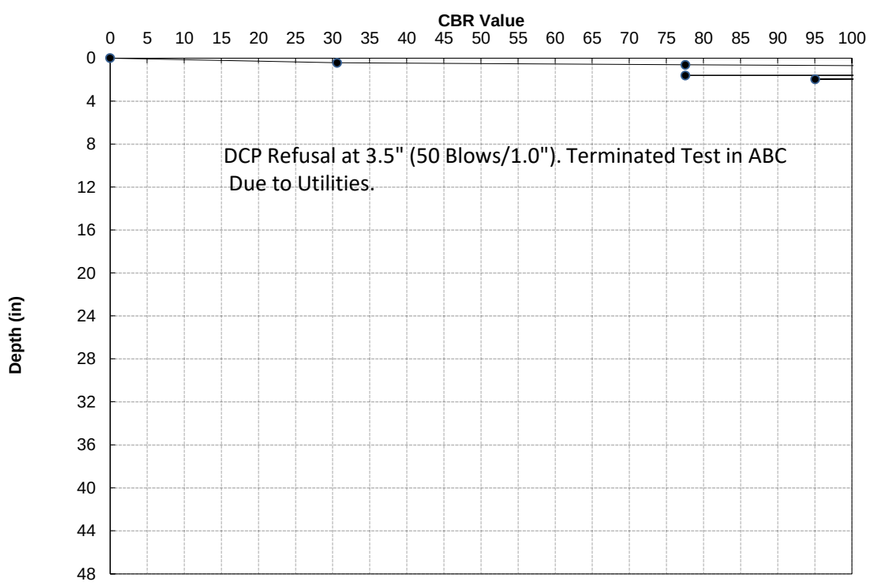
DCP

5.0 Fill

08/21/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 3.5	
# of Values	75
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	30.6



C-42 RT OSL — 42

-Y8- Sta. 12+96 14.8 LT EOP

Datum = ABC

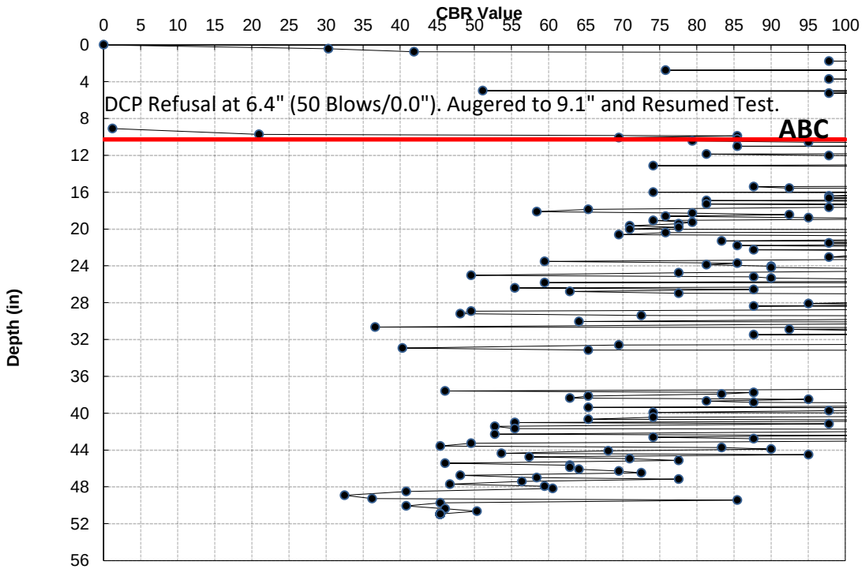
DCP

5.0 Fill

08/21/24

Interval 0.0 to 10.3	
# of Values	114
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	0.0

Interval 10.3 to 50.9	
# of Values	293
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	32.5



CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

Sheet 45

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-43 RTL (RT) — 43

-Y8- Sta. 12+96 5.5 LT EOP

Datum = SG (A-2-4)

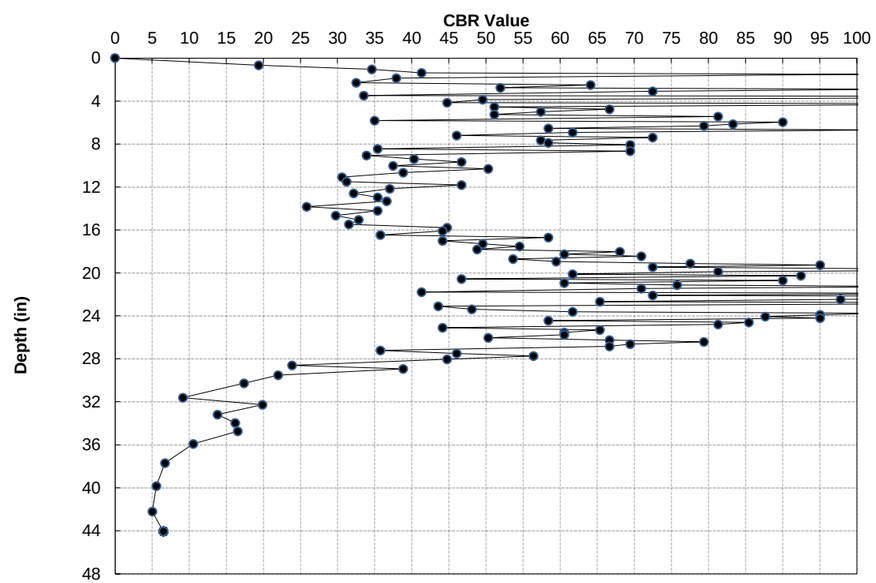
DCP

3.0 Fill

08/21/24

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 44.1	
# of Values	124
Avg CBR	58.1
Wghtd Avg.	37.8
Max CBR	100+
Min CBR	5.0



C-44 LT OSL — 44

-Y8- Sta. 16+99 2.6 LT EOP

Datum = ABC

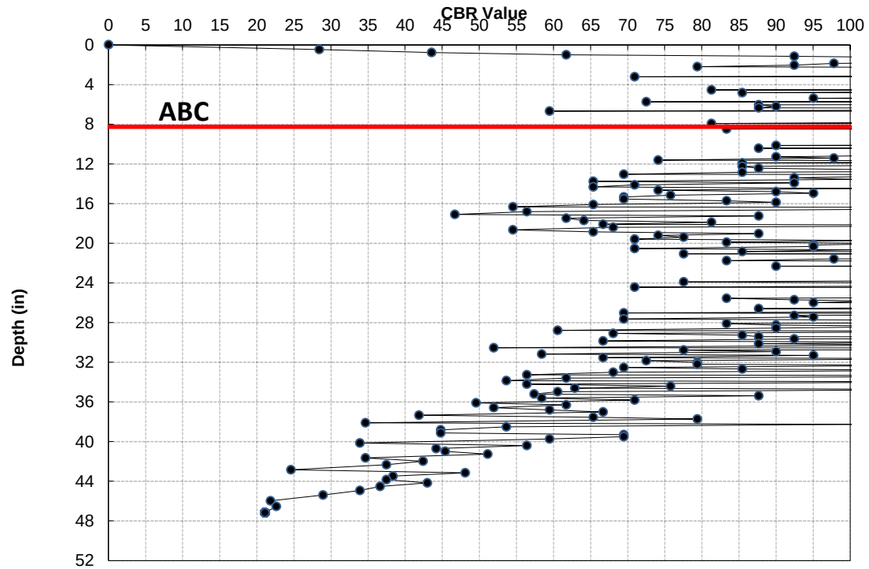
DCP

4.0 Fill

08/21/24

Interval 0.0 to 8.3	
# of Values	82
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	28.4

Interval 8.3 to 47.2	
# of Values	225
Avg CBR	100+
Wghtd Avg.	81.6
Max CBR	100+
Min CBR	21.1



CAROLINAS GEOTECHNICAL GROUP

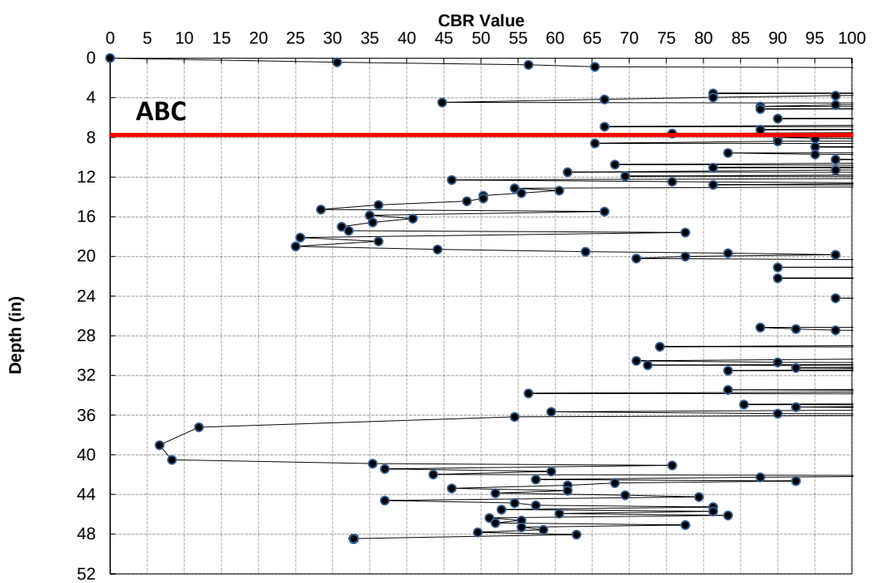
CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

C-45 LT ISL
-Y8- Sta. 16+99 18.0 LT EOP
Datum = ABC
DCP
5.0 Fill
08/21/24

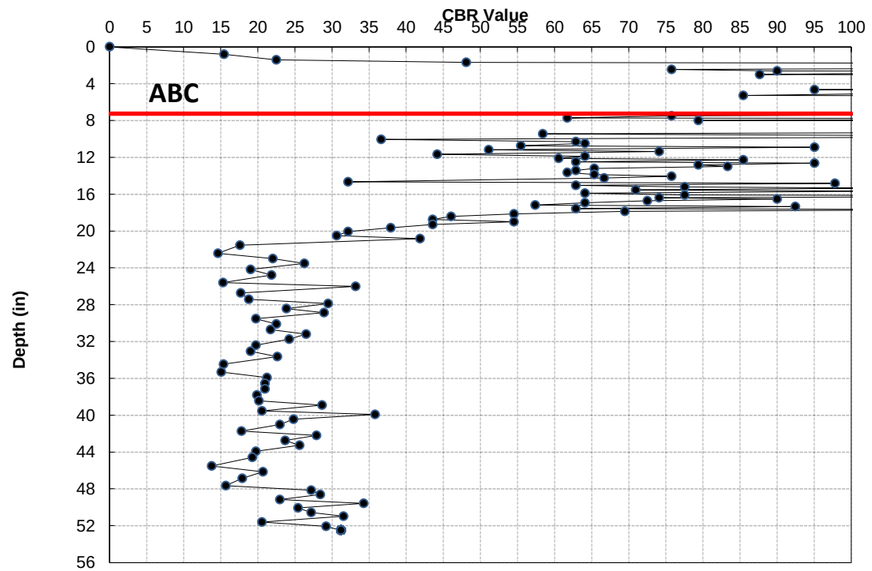


Interval 0.0 to 7.8	
# of Values	70
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	30.6

Interval 7.8 to 48.5	
# of Values	248
Avg CBR	100+
Wghtd Avg.	86.3
Max CBR	100+
Min CBR	6.7

45

C-46 RT OSL
-Y8- Sta. 22+73 2.5 LT EOP
Datum = ABC
DCP
5.0 Fill
08/21/24



Interval 0.0 to 7.8	
# of Values	75
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	15.4

Interval 7.8 to 52.5	
# of Values	118
Avg CBR	57.7
Wghtd Avg.	35.3
Max CBR	100+
Min CBR	13.8

46

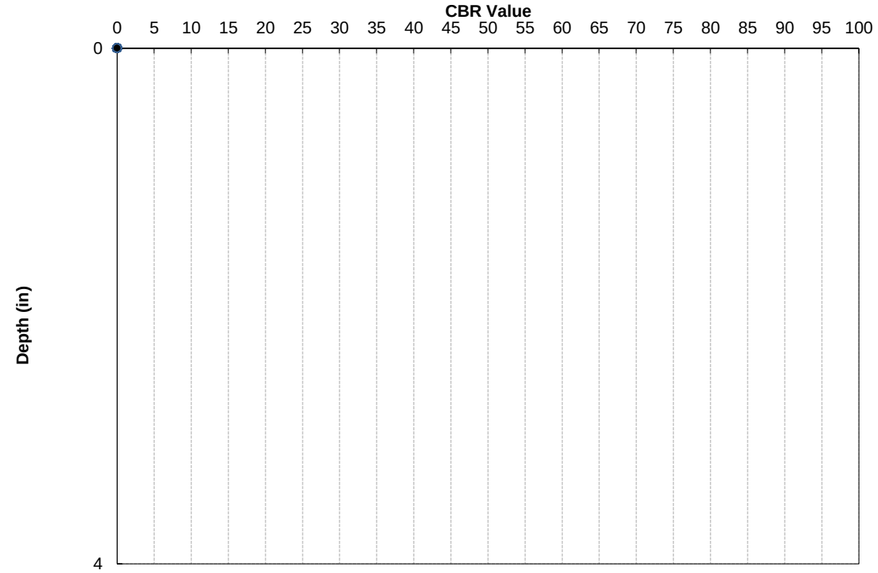
CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT

PROJECT NO.	44677.3.1
PROJECT ID	U-5875
ROUTE	Allen Rd (SR 1203) from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)
COUNTY	Pitt

GEOLOGIST	T. Wenner
FIELD CREW	CG2 Exploration

FILE	DCP Graphs C-1- to C-20

0
0
Datum = 0
0
0
01/00/00

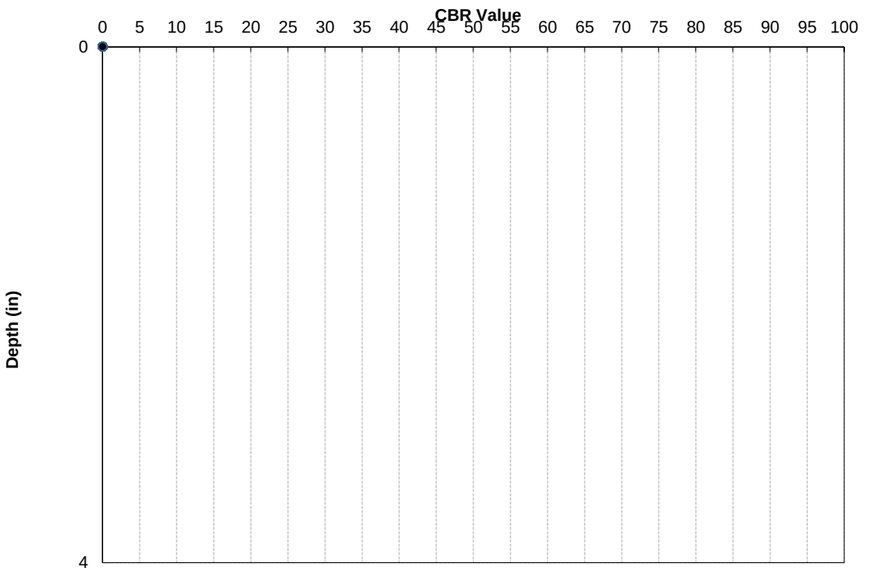


Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

47

0
0
Datum = 0
0
0
01/00/00



Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

Interval 0.0 to 0.0	
# of Values	0
Avg CBR	#DIV/0!
Wghtd Avg.	#DIV/0!
Max CBR	0.0
Min CBR	0.0

48

U-5875: Allen Road (SR 1203) Allen Road from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)

Pavement Core Photographs

C-1 -L- Sta. 15+20 LT OSL
1.4 LT EOP

C-2 -L- Sta. 15+67 RT OSL
1.7 LT EOP

C-3 -L- Sta. 17+52 RTL (RT)
9.0 LT EOP

C-4 -L- Sta. 20+52 RTL (LT)
2.2 LT EOP

C-5 -L- Sta. 26+16 RTL (LT)
0.8 LT FW

0 1 2
FEET

C-6 -L- Sta. 31+53 LT LN
0.8 LT FW

C-7 -L- Sta. 31+53 CTL
15.5 LT FW

C-8 -L- Sta. 31+53 RT LN
0.6 LT FW

C-9 -L- Sta. 37+33 RTL (LT)
1.0 LT FW

C-10 -L- Sta. 43+76 LT PS
0.3 RT FW

0 1 2
FEET

C-11 -L- Sta. 43+76 RT PS
0.5 RT FW

C-12 -L- Sta. 56+23 LT LN
1.2 LT FW

C-13 -L- Sta. 56+23 CTL
16.0 LT FW

C-14 -L- Sta. 56+23 RT LN
1.3 LT FW

C-15 -L- Sta. 75+87 LT PS
2.8 RT FW

0 1 2
FEET

C-16 -L- Sta. 75+87 LT LN
3.0 LT FW

C-17 -L- Sta. 75+87 CTL
16.0 LT FW

C-18 -L- Sta. 75+87 RT LN
1.8 LT FW

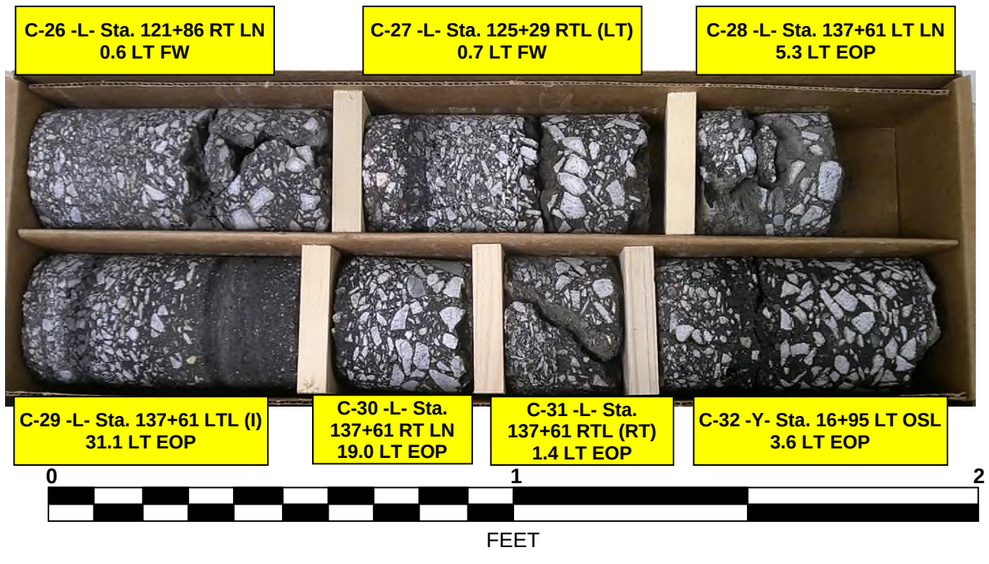
C-19 -L- Sta. 75+87 RT PS
2.2 RT FW

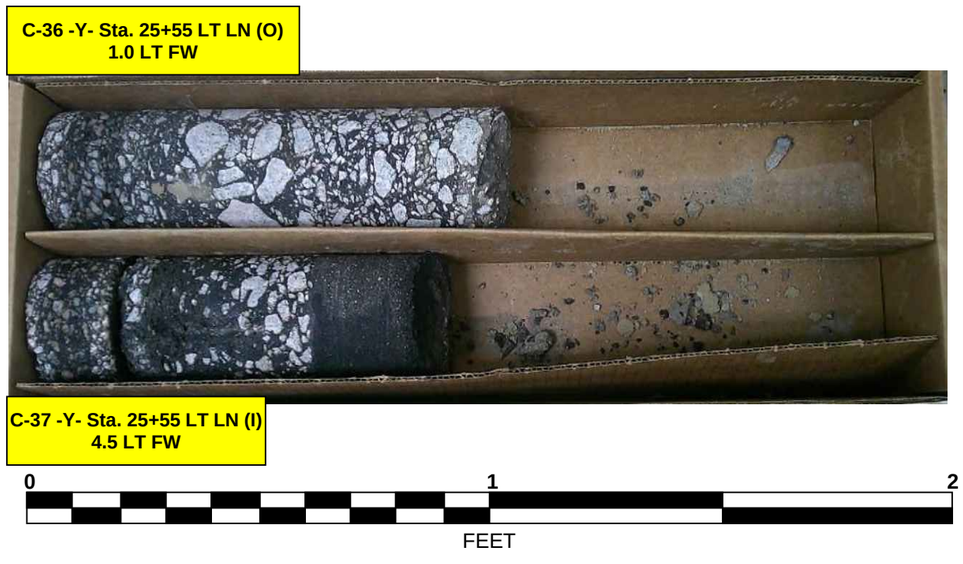
C-20 -L- Sta. 84+66 RTL (RT)
1.2 LT FW

0 1 2
FEET

U-5875: Allen Road (SR 1203) Allen Road from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)

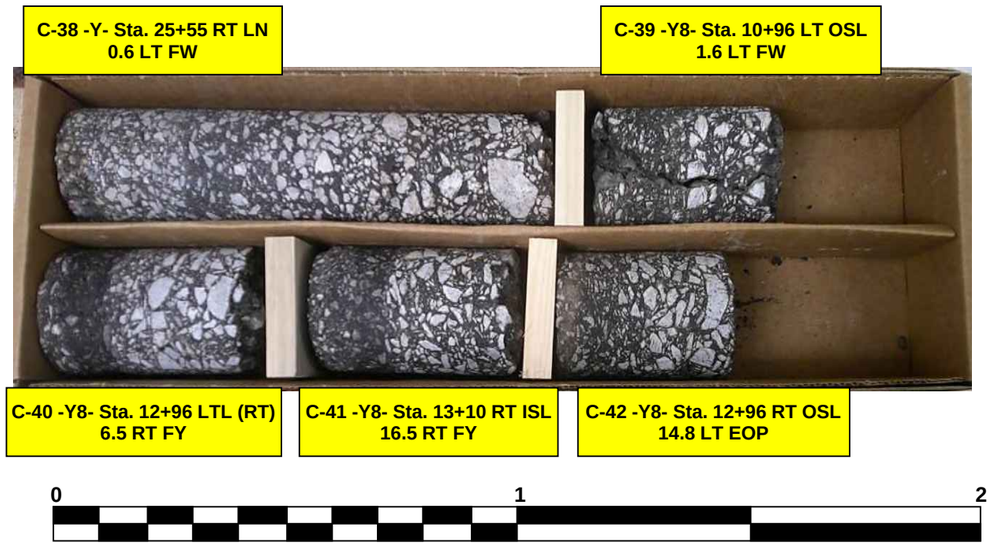
Pavement Core Photographs

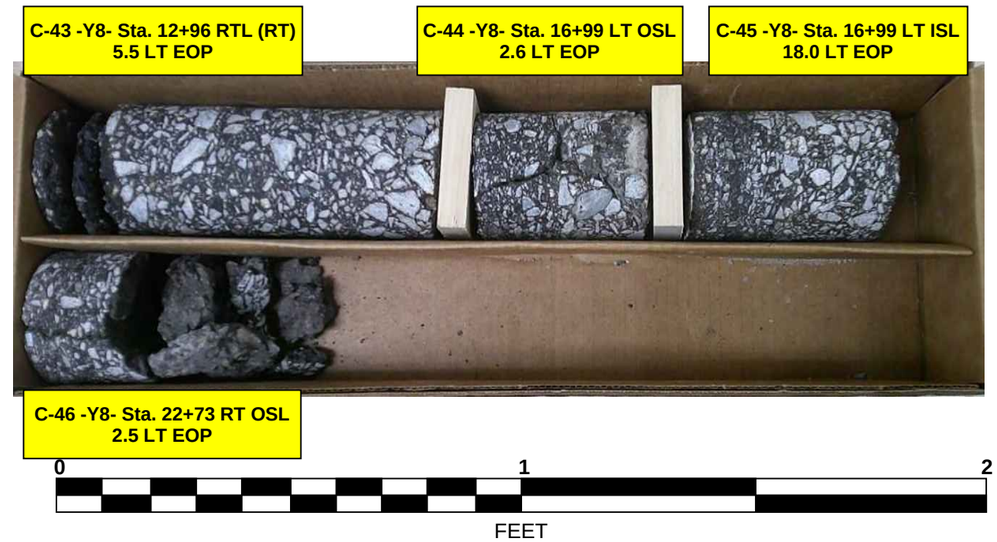




U-5875: Allen Road (SR 1203) Allen Road from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13)

Pavement Core Photographs





ALIGNMENT	STATION	ABC (in)	LAYER THICKNESS (in)	LAYER	LIFT(S)	REMARKS
-L-	C-1 Sta. 15+20 LT OSL 1.4 LT EOP	9.00	2.50	S	2	Low to Moderate Severity Oxidation and Stripping, with some very small to small voids, FEA
	5.75" Asphalt		3.25	B	1	Low Severity Oxidation and Stripping, with some small to large voids
-L-	C-2 Sta. 15+67 RT OSL 1.7 LT EOP	9.00	2.75	S	2	Moderate to High Severity Oxidation and Stripping, with some small voids, 2.75" Top-down crack
	5.75" Asphalt		3.00	B	1	Low Severity Oxidation, Moderate Severity Stripping, with some small to medium voids,FEA
-L-	C-3 Sta.17+52 RTL (RT) 9.0 LT EOP	8.50	2.00	S	2	Low to Moderate Severity Oxidation and Stripping, with some very small to small voids
			2.50	I	1	Low Severity Oxidation and Stripping, with few small voids
	8.50" Asphalt		4.00	B	1	Low Severity Oxidation and Stripping, with few small voids
-L-	C-4 Sta.20+52 RTL (LT) 2.2 LT EOP	6.00	2.00	S	2	Low to Moderate Severity Oxidation and Stripping, with some very small to small voids, FEA
	5.00" Asphalt		3.00	I	1	Mechanical Break between S/I, Moderate to High Severity Oxidation and Stripping, with some small to medium voids
-L-	C-5 Sta.26+16 RTL (LT) 0.8 LT FW	-	2.00	S	2	Low Severity Oxidation and Stripping, with few very small voids, FEA
			3.50	I	1	Low to Moderate Severity Oxidation and Stripping, with some very small to small voids, FEA
	10.75" Asphalt		1.25	S	1	Moderate Oxidation and Stripping, with some very small voids, FEA
			4.00	B	1	Moderate Oxidation and Stripping, with some very small voids, FEA
-L-	C-6 Sta.31+53 LT LN 0.8 LT FW	8.25	3.00	S	3	Mechanical Break in lift 1, 4.5" crack in core, Low to Moderate Oxidation and Stripping, with some small voids, FEA
	6.25" Asphalt		3.25	I	1	Low Severity Oxidation, Moderate Severity Stripping, with some very small to medium voids, FEA
-L-	C-7 Sta.31+53 CTL 15.5 LT FW	-	7.00	S	Indistinct	Top-down crack in core, Mechanical Break/delamination between lifts 2 - 3, 3 - 4, 4 - 5, and 5 - 6, Moderate to High Oxidation and Stripping, with numerous small to medium voids
	10.00" Asphalt		3.00	SA	2	Moderate to High Oxidation and Stripping, with numerous small to medium voids, Mechanical Break between lifts
-L-	C-8 Sta.31+53 RT LN 0.6 LT FW	9.25	3.75	S	3	Low Severity Oxidation and Stripping, with few very small voids, FEA
	6.25" Asphalt		2.50	I	1	Low Severity Oxidation and Stripping, with few very small voids, FEA
-L-	C-9 Sta.37+33 RTL (LT) 1.0 LT FW	-	2.25	S	2	Low Severity Oxidation and Stripping, with few very small voids, FEA
	6.00" Asphalt		3.75	I	2	Low Severity Oxidation and Stripping, with few very small voids, FEA
-L-	C-10 Sta.43+76 LT PS 0.3 RT FW	13.75	2.75	S	2	Moderate to High Severity Oxidation and Stripping, with numerous very small to medium voids, FEA
	5.25" Asphalt		2.50	I	1	Moderate to High Oxidation and Stripping, with numerous very small to small voids, FEA
-L-	C-11 Sta.43+76 RT PS 0.5 RT FW	11.00	3.50	S	2	Low Severity Oxidation and Stripping, with few very small to small voids, FEA
	7.00" Asphalt		3.50	I	1	Delamination between S/I, Low Severity Oxidation and Stripping, with few very small to small voids, FEA
-L-	C-12 Sta.56+23 LT LN 1.2 LT FW	9.25	2.00	S	2	Low to Moderate Severity Oxidation and Stripping, with few very small to small voids, FEA
	4.75" Asphalt		2.75	I	1	Mechanical Break between S/I, Top-down crack, Low to Moderate Oxidation and Stripping, with some small voids, FEA
-L-	C-13 Sta.56+23 CTL 16.0 LT FW	-	3.50	S	3	Low Severity Oxidation and Stripping, with numerous very small voids, FEA
	6.25" Asphalt		2.75	SA	2	Moderate to High Severity Oxidation and Stripping, with numerous very small to small voids

S = Surface Course Asphalt
I = Intermediate Course Asphalt
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SA = Sand Asphalt
DB = Decorative Brick
C = Concrete

ALIGNMENT	STATION	ABC (in)	LAYER THICKNESS (in)	LAYER	LIFT(S)	REMARKS
-L-	C-14 Sta.56+23 RT LN 1.3 LT FW	7.00	1.50	S	1	Low Severity Oxidation and Stripping, with few very small voids, FEA
	6.00" Asphalt		4.50	I	2	Mechanical break between S/I, Low to Moderate Severity Oxidation and Stripping, with some very small to small voids, FEA
-L-	C-15 Sta. 75+87 LT PS 2.8 RT FW	-	2.50	S	2	Low Severity Oxidation and Stripping, with few very small voids, FEA
			4.25	I	2	Low Severity Oxidation, Low to Moderate Severity Stripping, with some very small to medium voids, FEA
	9.50" Asphalt		2.75	SA	2	Delamination between I/SA, Delamination between lifts, Moderate to High Severity Oxidation and Stripping, with numerous very small voids
-L-	C-16 Sta. 75+87 LT LN 3.0 LT FW	-	5.50	S	4	Low Severity Oxidation, Low to Moderate Severity Stripping, with some very small to medium voids, FEA
	7.75" Asphalt		2.25	SA	2	Start of delamination between lifts, Top-down crack, High Severity Oxidation and Stripping, with numerous very small to medium voids
-L-	C-17 Sta. 75+87 CTL 16.0 LT FW	-	3.25	S	3	Low Severity Oxidation and Stripping, with few very small voids, FEA
			2.50	I	1	Low Severity Oxidation, Low to Moderate Severity Stripping, with some small to medium voids
	12.75" Asphalt		7.00	S	6	Low to Moderate Severity Oxidation and Stripping, with some very small to small voids, FEA
-L-	C-18 Sta. 75+87 RT LN 1.8 LT FW	13.50	2.25	S	2	Low Severity Oxidation and Stripping, with some very small to small voids, FEA
	6.50" Asphalt		4.25	I	2	Low Severity Oxidation and Stripping, with some very small to small voids, FEA
-L-	C-19 Sta. 75+87 RT PS 2.2 RT FW	14.75	2.75	S	2	Low Severity Oxidation and Stripping, with few very small voids, FEA
	6.25" Asphalt		3.50	I	1	Low Severity Oxidation and Stripping, with few very small voids, FEA
-L-	C-20 Sta. 84+66 RTL (RT) 1.2 LT FW	4.50	2.00	S	2	Low Severity Oxidation and Stripping, with some very small to small voids, FEA
	4.50" Asphalt		2.50	I	1	Low Severity Oxidation and Stripping, with few very small voids, FEA
-L-	C-21 Sta. 97+01 LT PS 2.3 RT FW	-	6.50	S	4	Delamination between lifts 2 and 3, Low Severity Oxidation and Stripping, with few very small to small voids, FEA
	8.25" Asphalt		1.75	SA	1	Moderate to High Severity Oxidation and Stripping, with numerous very small voids
-L-	C-22 Sta. 97+01 RT PS 1.5 RT FW	10.00	2.25	S	2	Low Severity Oxidation and Stripping, with few very small voids, FEA
	5.50" Asphalt		3.25	I	1	Low Severity Oxidation and Stripping, with few very small voids, FEA
-L-	C-23 Sta. 116+86 RTL (LT) 1.1 LT FW	9.75	2.75	S	2	Low Severity Oxidation and Stripping, with few very small to small voids, FEA
	6.25" Asphalt		3.50	I	2	Low Severity Oxidation and Stripping, with few very small to small voids, FEA
-L-	C-24 Sta. 121+86 LT LN 0.6 LT FW	8.25	2.50	S	2	Low Severity Oxidation, Low Severity Stripping, with some very small to small voids, FEA
	6.75" Asphalt		4.25	I	2	Delamination between lifts 1 and 2, Top-down crack in lift 2, Low Severity Oxidation and Stripping, with some very small to medium voids, FEA
-L-	C-25 Sta. 121+86 CTL 16.0 LT FW	-	6.00	S	6	Low Severity Oxidation, Low to Moderate Severity Stripping, with some very small to small voids, FEA
	9.75" Asphalt		3.75	SA	2	3 2.5-3.0" Bottom-up cracks, Moderate to High Severity Oxidation and Stripping, with numerous very small voids
-L-	C-26 Sta. 121+86 RT LN 0.6 LT FW	6.75	2.25	S	2	Low Severity Oxidation and Stripping, with few very small voids, FEA
	7.75" Asphalt		2.50	I	1	Low Severity Oxidation, Moderate Severity Stripping, with some small to medium voids, FEA
			3.00	B	1	Mechanical Break in lift, Low Severity Oxidation, Moderate Severity Stripping, with some medium to large voids, FEA

S = Surface Course Asphalt
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C = Concrete

ALIGNMENT	STATION	ABC (in)	LAYER THICKNESS (in)	LAYER	LIFT(S)	REMARKS
-L-	C-27 Sta. 125+29 RTL (LT) 0.7 LT FW	-	1.50	S	1	Low Severity Oxidation, Low to Moderate Severity Stripping, with some very small to small voids, FEA
	8.00" Asphalt		6.50	I	2	Mechanical Break between lifts, Low Severity Oxidation, Low to Moderate Severity Stripping, with some very small to large voids, FEA
-L-	C-28 Sta. 137+61 LT LN 5.3 LT EOP	8.50	1.25	S	1	1.25" Top-down crack, Mechanical break in lift, Low to Moderate Oxidation and Stripping, with some very small to small voids, FEA
	3.50" Asphalt		2.25	I	1	Low to Moderate Severity Oxidation and Stripping, with some medium to large voids
-L-	C-29 Sta. 137+61 LTL (I) 31.1 LT EOP	-	4.50	S	4	Low Severity Oxidation, Low to Moderate Severity Stripping, With some very small to small voids, FEA
	7.00" Asphalt		2.50	SA	2	Low to Moderate Severity Oxidation and Stripping, with some very small voids
-L-	C-30 Sta. 137+61 RT LN 19.0 LT EOP	7.50	1.50	S	1	Low Severity Oxidation and Stripping, with few very small voids, FEA
	3.50" Asphalt		2.00	I	1	Low Severity Oxidation, Low to Moderate Severity Stripping, with some small to medium voids, FEA
-L-	C-31 Sta. 137+61 RTL (RT) 1.4 LT EOP	8.00	1.25	S	1	Top-down crack in core, Low Severity Oxidation, Low to Moderate Severity Stripping, with some very small to small voids, FEA
	3.00" Asphalt		1.75	I	1	Low Severity Oxidation, Low to Moderate Severity Stripping, with some small to medium voids
-Y-	C-32 Sta. 16+95 LT OSL 3.6 LT EOP	5.00	2.00	S	2	Low Severity Oxidation and Stripping, with few very small voids, FEA
	7.00" Asphalt		5.00	I	2	Moderate to High Severity Oxidation and Stripping, Mechanical Break in lift, with numerous very small to small voids, Bleeding,FEA
-Y-	C-33 Sta. 16+95 CTL 6.6 LT FY (FR LT LN)	-	3.00	S	Indistinct	High Severity Oxidation and Stripping, Disintegrated
			3.00	SA	1	High Severity Oxidation and Stripping, with numerous very small voids
			2.75	I	1	Low Severity Oxidation, Moderate Severity Stripping, with some very small to small voids
	8.75" Asphalt, 3.50" Decorative Brick, 4.75" Concrete		3.50	DB	1	Low Severity Oxidation and Stripping, with some small voids
			4.75	C	1	Low Severity Oxidation and Stripping, with some small to medium voids
-Y-	C-34 Sta. 16+95 RT OSL/RTL 2.6 LT EOP	8.75	2.75	S	2	Low Severity Oxidation, Moderate Severity Stripping, with some very small to small voids
	6.25" Asphalt		3.50	B	1	Low to Moderate Severity Oxidation and Stripping, with some small to medium voids
-Y-	C-35 Sta. 21+59 RT OSL 7.0 LT FW	13.25	3.50	S	3	Delamination between lifts 2-3, Moderate to High Severity Oxidation and Stripping, with numerous very small to small voids
	5.75" Asphalt		2.25	I	1	Low to Moderate Oxidation and Stripping, with some small to medium voids
-Y-	C-36 Sta. 25+55 LT LN (O) 1.0 LT FW	-	4.00	S	4	Low to Moderate Severity Stripping, with some very small to small voids, FEA
			3.00	B	1	Low Severity Oxidation and Stripping, with few small voids
	12.50" Asphalt		3.50	I	2	Low Severity Oxidation and Stripping, with few small voids
			2.00	B	1	Low Severity Oxidation and Stripping, with few small voids
-Y-	C-37 Sta. 25+55 LT LN (I) 4.5 LT FW	-	5.00	S	5	Delamination between lifts 2-3, Moderate to High Severity Oxidation and Stripping, with numerous very small to small voids
			3.00	I	2	Moderate Severity Oxidation and Stripping, with some very small voids, FEA
	11.00" Asphalt		3.00	SA	1	High Severity Oxidation and Stripping, with numerous very small voids

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ALIGNMENT	STATION	ABC (in)	LAYER THICKNESS (in)	LAYER	LIFT(S)	REMARKS
-Y-	C-38 Sta. 25+55 RT LN 0.6 LT FW	-	2.50	S	2	Low Severity Oxidation, Moderate Severity Stripping, with some small to medium voids, FEA
			3.25	I	2	Low Severity Oxidation and Stripping, with few small voids
	13.25" Asphalt		7.50	B	2	Low Severity Oxidation and Stripping, with few small voids
-Y8-	C-39 Sta. 10+96 LT OSL 1.6 LT FW	8.50	2.00	S	2	Top-down crack in core, Moderate to High Severity Oxidation and Stripping, with numerous very small to large voids
	5.00" Asphalt		3.00	I	1	Low to Moderate Severity Oxidation and Stripping, with some very small to medium voids
-Y8-	C-40 Sta. 12+96 LTL (RT) 6.5 RT FY	9.50	3.00	S	3	Low Severity Oxidation, Moderate Severity Stripping, with some very small to small voids, FEA
	5.50" Asphalt		2.50	I	1	Low Severity Oxidation and Stripping, with few small voids
-Y8-	C-41 Sta. 13+10 RT ISL 16.5 RT FY	Yes	2.50	S	2	Low to Moderate Severity Oxidation and Stripping, with some very small to small voids, FEA
	5.50" Asphalt		3.00	I	1	Low Severity Oxidation and Stripping, with some small voids
-Y8-	C-42 Sta. 12+96 RT OSL 14.8 LT EOP	10.25	2.00	S	2	Low to Moderate Severity Oxidation and Stripping, with some small voids, FEA
	4.75" Asphalt		2.75	I	1	Low Severity Oxidation and Stripping, with few small voids
-Y8-	C-43 Sta. 12+96 RTL (LT) 5.5 LT EOP	-	2.25	S	2	Mechanical Break in lift 1 and between lifts 1-2, High Severity Oxidation and Stripping
	10.25" Asphalt		8.00	I	3	Low Severity Oxidation and Stripping, with few very small voids, FEA
-Y8-	C-44 Sta. 16+99 LT OSL 2.6 LT EOP	8.25	2.25	S	2	2.25" Top-down crack in core, Low Severity Oxidation and Stripping, with some small voids
	4.75" Asphalt		2.50	I	1	Low Severity Oxidation, Moderate Severity Stripping, with some small to large voids
-Y8-	C-45 Sta. 16+99 LT ISL 18.0 LT EOP	7.75	2.25	S	2	Moderate Severity Oxidation and Stripping, with some small voids, FEA
	5.25" Asphalt		3.00	I	1	Low Severity Oxidation, Moderate Severity Stripping, with some small voids
-Y8-	C-46 Sta. 22+73 RT OSL 2.5 LT EOP	7.25	2.00	S	2	Low Severity Oxidation, Moderate Severity Stripping, Top-down crack in core
	5.25" Asphalt		3.25	I	Indistinct	Disintegrated, High Severity Oxidation and Stripping

S = Surface Course Asphalt
I = Intermediate Course Asphalt
B= Base Course Asphalt
SA = Sand Asphalt
DB = Decorative Brick
C = Concrete

PROJECT REFERENCE NO.	SHEET NO.
U–5875	54

F&ME CONSULTANTS, INC.
211 BUSINESS PARK BOULEVARD, COLUMBIA SC 29203
(CERT No.: 130-0212)

Project Allen Road (SR 1203) Allen Road from Stantonsburg Rd (SR 1467) to Dickenson Ave Ext (US 13) **T.I.P. No.** U-5875 **County** Pitt **F&ME Job No.** C8806.001 - Task 00031

Date Received 8/22/2024 **Date Reported** 9/20/2024 **Tested By** F&ME **CERT No.:** 130-0212

SOIL TEST RESULTS

SAMPLE NO.	ALIGNMENT	STATION	LANE	OFFSET (ft.)	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
									C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-1	-L-	15+20	LT OSL	1.4 LT EOP	1.2 - 4.0	A-2-4	18	5	14.7%	54.8%	12.4%	18.1%	97.2%	90.5%	33.0%	10.1%	ND
S-2	-L-	15+67	RT OSL	1.7 LT EOP	1.2 - 5.0	A-2-4	NP	NP	25.0%	43.9%	17.0%	14.1%	92.4%	79.5%	32.3%	8.6%	ND
S-3	-L-	17+52	RTL (RT)	9.0 LT EOP	1.4 - 5.0	A-4(0)	NP	NP	5.4%	56.0%	20.5%	18.1%	99.4%	97.6%	43.0%	14.2%	ND
S-4	-L-	20+52	RTL (LT)	2.2 LT EOP	0.9 - 3.5	A-2-4	NP	NP	41.0%	36.2%	14.8%	8.0%	97.6%	78.2%	25.4%	9.1%	ND
S-6	-L-	31+53	LT LN	0.8 LT FW	1.2 - 5.0	A-4(0)	NP	NP	6.8%	57.7%	23.4%	12.1%	94.3%	90.1%	37.0%	8.5%	ND
S-7	-L-	31+53	CTL	15.5 LT FW	0.8 - 5.0	A-4(0)	NP	NP	4.6%	59.5%	19.8%	16.1%	99.2%	97.1%	39.3%	25.8%	ND
S-8	-L-	31+53	RT LN	0.6 LT FW	1.3 - 5.0	A-6(2)	24	12	3.3%	51.8%	20.6%	24.3%	96.9%	95.7%	46.2%	19.2%	ND
S-10	-L-	43+76	LT PS	0.3 RT FW	1.6 - 5.0	A-4(0)	19	7	6.1%	53.2%	18.5%	22.2%	93.1%	89.7%	40.8%	14.0%	ND
S-13	-L-	56+23	CTL	16.0 LT FW	0.5 - 1.5	A-2-4	17	3	7.5%	61.9%	14.5%	16.1%	99.5%	96.0%	34.8%	8.9%	ND
S-14	-L-	56+23	RT LN	1.3 LT FW	1.1 - 5.0	A-6(2)	38	11	31.3%	24.8%	23.6%	20.3%	94.8%	73.2%	45.9%	17.7%	ND
S-18	-L-	75+87	RT LN	1.8 LT FW	1.7 - 5.0	A-6(3)	25	15	6.7%	46.2%	16.8%	30.3%	93.8%	89.8%	47.6%	12.2%	ND
S-20	-L-	84+66	RTL (RT)	1.2 LT FW	0.8 - 2.0	A-4(0)	19	8	7.6%	54.3%	15.9%	22.2%	98.4%	96.7%	40.9%	12.6%	ND
S-22	-L-	97+01	RT PS	1.5 RT FW	1.3 - 5.0	A-4(0)	16	5	6.7%	53.6%	19.6%	20.1%	89.4%	86.2%	39.5%	16.7%	ND
S-23	-L-	116+86	RTL (LT)	1.1 LR FW	1.3 - 5.0	A-2-4	NP	NP	38.0%	52.2%	7.8%	2.0%	88.1%	72.7%	10.7%	11.7%	ND
S-25	-L-	121+86	CTL	16.0 LT FW	0.8 - 1.5	A-4(0)	NP	NP	19.1%	48.2%	20.6%	12.1%	97.5%	86.4%	35.8%	9.2%	ND
S-26	-L-	121+86	RT LN	0.6 LT FW	1.2 - 2.0	A-2-4	NP	NP	21.4%	52.6%	16.0%	10.0%	97.1%	85.3%	29.4%	11.2%	ND
S-27	-L-	125+29	RTL (LT)	0.7 LT FW	1.1 - 5.0	A-2-4	NP	NP	11.1%	57.7%	15.1%	16.1%	87.5%	82.7%	30.8%	8.1%	ND
S-28	-L-	137+61	LT LN	5.3 LT EOP	1.0 - 5.0	A-4(0)	15	5	5.4%	57.2%	19.3%	18.1%	98.8%	96.5%	41.3%	12.1%	ND
S-33	-Y-	16+95	CTL	6.6 LT FY (FR LT LN)	1.4 - 5.0	A-4(1)	22	8	4.0%	53.8%	18.0%	24.2%	99.8%	98.4%	45.7%	14.9%	ND
S-35A	-Y-	21+59	RT OSL	7.0 LT FW	3.0 - 5.0	A-4(0)	NP	NP	7.4%	60.4%	18.1%	14.1%	99.3%	96.4%	36.5%	19.3%	ND
S-37	-Y-	25+55	LT LN (I)	4.5 LT FW	0.9 - 2.0	A-2-4	NP	NP	27.3%	42.2%	14.4%	16.1%	85.4%	70.9%	28.6%	7.8%	ND
S-37A	-Y-	25+55	LT LN (I)	4.5 LT FW	2.0 - 5.0	A-4(0)	16	2	5.1%	58.3%	20.5%	16.1%	100.0%	98.3%	40.5%	16.5%	ND
S-40	-Y8-	12+96	LTL (RT)	6.5 RT FY	1.3 - 5.0	A-2-4	NP	NP	52.3%	29.7%	12.0%	6.0%	96.1%	65.9%	20.6%	5.3%	ND
S-45	-Y8-	16+99	LT ISL	18.0 LT EOP	1.1 - 5.0	A-2-4	NP	NP	57.6%	22.9%	15.5%	4.0%	95.9%	64.6%	21.0%	5.8%	ND
S-46	-Y8-	22+73	RT OSL	2.5 LT EOP	1.0 - 5.0	A-2-4	NP	NP	18.7%	48.0%	21.3%	12.0%	79.6%	69.9%	30.3%	7.5%	ND

Alex M Abernathy
Authorzed Signature

130-04-0212
NCDOT Cert. No.
09/20/24
Date

Prepared in the Office of:
F&ME CONSULTANTS, INC.
COLUMBIA, SOUTH CAROLINA
NCDOT LAB CERT. NO. 130–0212

F&ME CONSULTANTS, INC.
211 BUSINESS PARK BOULEVARD, COLUMBIA SC 29203
(CERT No.: 130-0212)

Project SR 1203 (Allen Road) from SR 1467 (Stantonsburg Road) to US 13 (Dickinson Avenue Extension) **T.I.P. No.** U-5875 **County** Pitt **F&ME Job No.** C8806.001 - Task 00031

Date Received 8/16/2024 **Date Reported** 9/6/2024 **Tested By** F&ME **CERT No.:** 130-0212

SOIL TEST RESULTS

SAMPLE NO.	*OFFSET (ft.)*	*STATION*	*DEPTH INTERVAL (ft.)*	*AASHTO CLASS*	*L.L.*	*P.I.*	*% BY WEIGHT*				*% PASSING (SIEVES)*			*%*	*%*
							C. SAND	*F. SAND*	*SILT*	*CLAY*	*10*	*40*	*200*	*MOISTURE*	*ORGANIC*
Bulk-1	44 RT	-L- 20+61	0.0 - 3.0	A-4(1)	21	7	4.0%	47.0%	20.7%	28.3%	99.7%	98.3%	52.5%	14.0%	ND
Bulk-2	92 RT	-L- 56+95	0.0 - 3.0	A-6(5)	29	14	1.9%	43.8%	15.7%	38.6%	100.0%	99.6%	57.6%	24.4%	ND
Bulk-3	66 RT	-L- 95+00	1.0 - 3.0	A-4(0)	17	1	3.0%	61.6%	17.3%	18.1%	99.9%	99.6%	39.8%	13.6%	ND
Bulk-4	86 LT	-L- 129+83	1.0 - 3.0	A-4(0)	16	3	4.1%	55.6%	18.2%	22.1%	100.0%	99.0%	44.1%	17.6%	ND

Alex M Abernathy
Authorzed Signature

130-04-0212
NCDOT Cert. No.

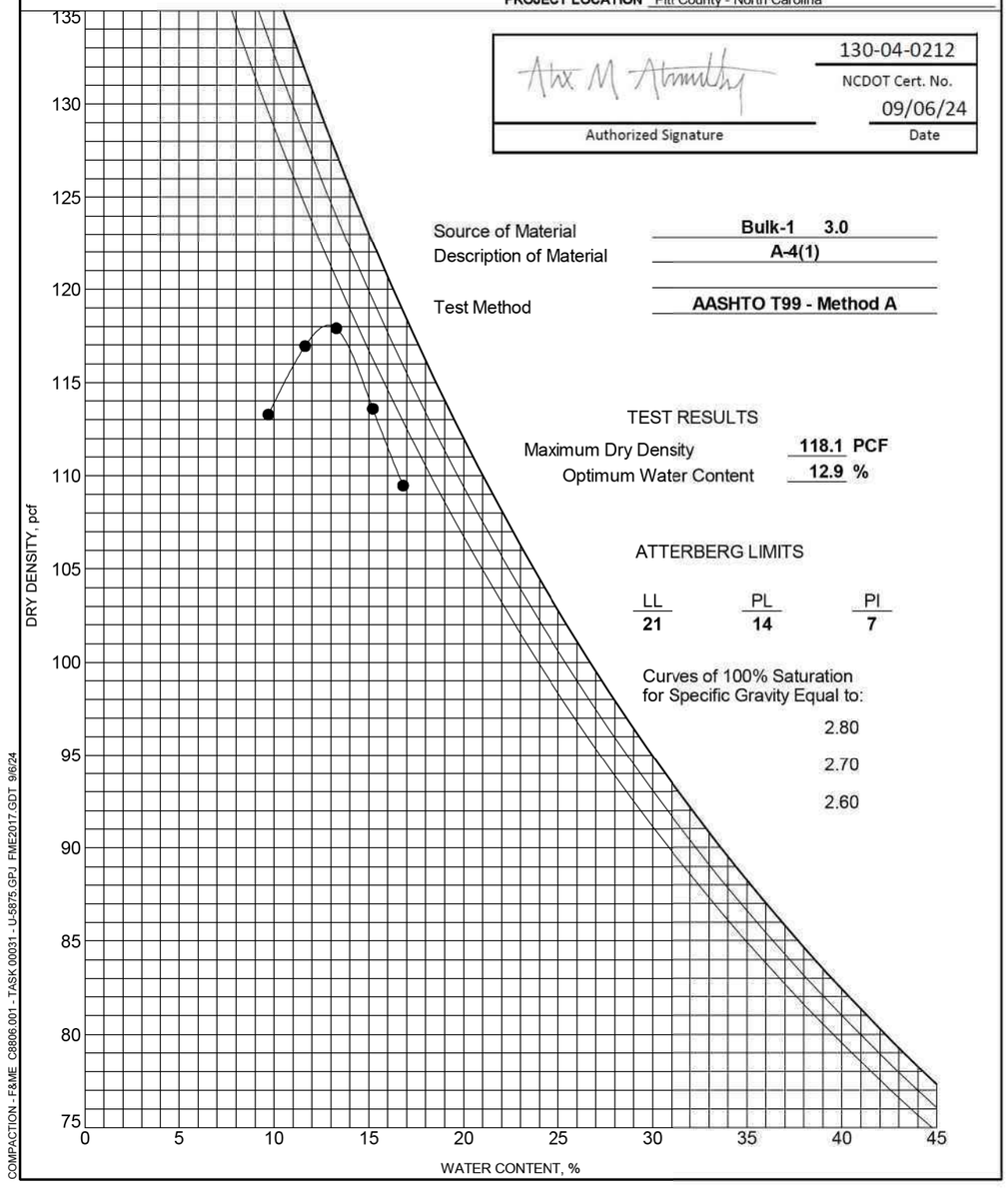
09/06/24
Date

MOISTURE-DENSITY RELATIONSHIP

F&ME CONSULTANTS

PROJECT ID C8806.001 - Task 00031 (NCDOT TIP No. U-5875) **PROJECT NAME** SR 1203 from SR 1467 to US 13

PROJECT LOCATION Pitt County - North Carolina



Alex M Abernethy — Authorized Signature

130-04-0212 — NCDOT Cert. No.

09/06/24 — Date

Source of Material: Bulk-1 3.0

Description of Material: A-4(1)

Test Method: AASHTO T99 - Method A

TEST RESULTS

Maximum Dry Density: 118.1 PCF

Optimum Water Content: 12.9 %

ATTERBERG LIMITS

LL	PL	PI
21	14	7

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

COMPACTION - F&ME C8806.001 - TASK 00031 - U-5875.GPJ FME2017.GDT 9/6/24

REV 03/2024

SPECIFIC GRAVITY OF SOILS
(ASTM D854 / AASHTO T100)

Project Name:	SR 1203 (Allen Road) from SR 1467 (Stantonsburg Road) to US 13 (Dickinson Ave. Extension)	**Project No.:**	C8806.001 - Task 00031
FME Lab ID	24-2732	**Depth (ft.):**	0.0 - 3.0
Description of Soil:	A-4(1)	**Date Received:**	8/16/2024
Method:	A X B		
Tested By:	Alex Abernethy	**Date Tested:**	8/22/2024

Boring No.	Bulk-1			
Sample Depth (ft.)	0.0 - 3.0			
Volume of Flask at 20° C	500 mL			
Method of Air Removal	Boiling			
Mass Flask + Water + Soil (Wb)	748.87			
Test Temperature ° C (Tx)	24.0			
Mass Flask + Water (Wa)	686.58			
Container No.	E			
Mass of Container + Oven Dry Soil	289.10			
Mass of Container	189.10			
Mass of Oven Dry Soil (Wo)	100.00			
Specific Gravity @ Test Temperature Wo/[Wo+(Wa-Wb)]	2.652			
Specific Gravity (SG) K x Specific Gravity @ Test Temperature	2.649			

Remarks:

Alex M Abernethy — Authorized Signature

130-04-0212 — NCDOT Cert. No

9/6/2024 — Date

REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

SAMPLE INFORMATION

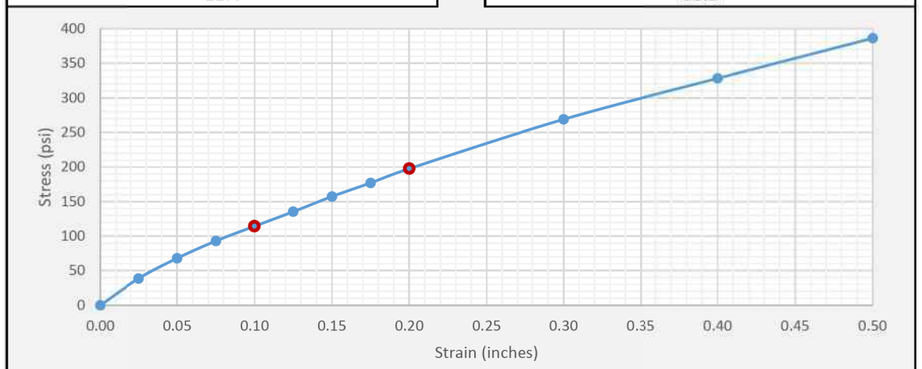
Project Name	SR 1203 from SR 1467 to US 13			NCDOT STIP NO.	U-5875
Sample Location	Bulk-1 (Specimen A)			FME Lab ID	24-2732
Soil Description	A-4(1)			Depth/Elev.	0.0 - 3.0
Date Sampled	--	Sampled By:	CG2	Date Received	8/16/2024
Date Test Began	8/23/2024	Date Completed	8/27/2024	Tested By	AA/DH

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft^3)	118.1	Optimum Moisture Content (%)	12.9
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS

CBR at 0.10-inch penetration	CBR at 0.20-inch penetration
11.4	**13.2**



Before Soaking	
Dry Density (lb/ft^3)	117.5
Moisture Content	13.4%
Percent Compaction	99.5%
Percent Shrink/Swell	--

After Soaking	
Dry Density (lb/ft^3)	117.6
Moisture Content (Top 1")	15.4%
Percent Compaction	99.5%
Percent Shrink/Swell	0.4%

ADDITIONAL COMMENTS

Target %Compaction = 100%

F&ME CONSULTANTS

F&ME Consultants, Inc.
211 Business Park Blvd., Columbia, South Carolina 29203

Authorized Signature

130-04-0212
NCDOT Cert. No.

09/06/24
Date

REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

SAMPLE INFORMATION

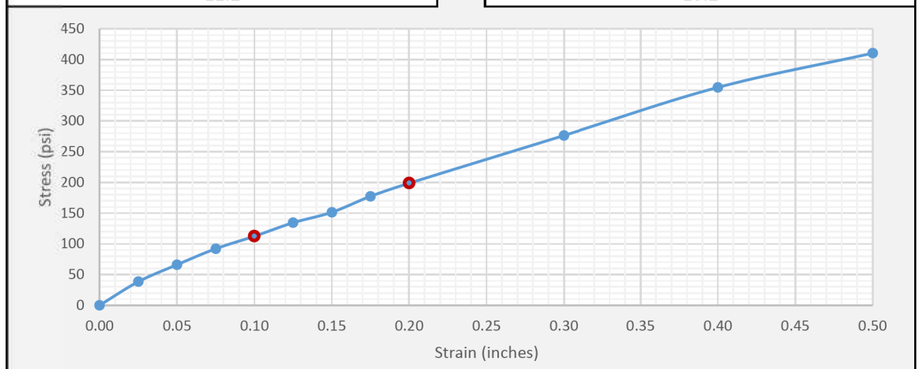
Project Name	SR 1203 from SR 1467 to US 13			NCDOT STIP NO.	U-5875
Sample Location	Bulk-1 (Specimen B)			FME Lab ID	24-2732
Soil Description	A-4(1)			Depth/Elev.	0.0 - 3.0
Date Sampled	--	Sampled By:	CG2	Date Received	8/16/2024
Date Test Began	8/23/2024	Date Completed	8/27/2024	Tested By	AA/DH

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft^3)	118.1	Optimum Moisture Content (%)	12.9
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS

CBR at 0.10-inch penetration	CBR at 0.20-inch penetration
11.2	**13.2**



Before Soaking	
Dry Density (lb/ft^3)	118.3
Moisture Content	12.5%
Percent Compaction	100.2%
Percent Shrink/Swell	--

After Soaking	
Dry Density (lb/ft^3)	118.8
Moisture Content (Top 1")	14.1%
Percent Compaction	100.6%
Percent Shrink/Swell	0.3%

ADDITIONAL COMMENTS

Target %Compaction = 100%

F&ME CONSULTANTS

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211 Business Park Blvd., Columbia, South Carolina 29203

Authorized Signature

130-04-0212
NCDOT Cert. No.

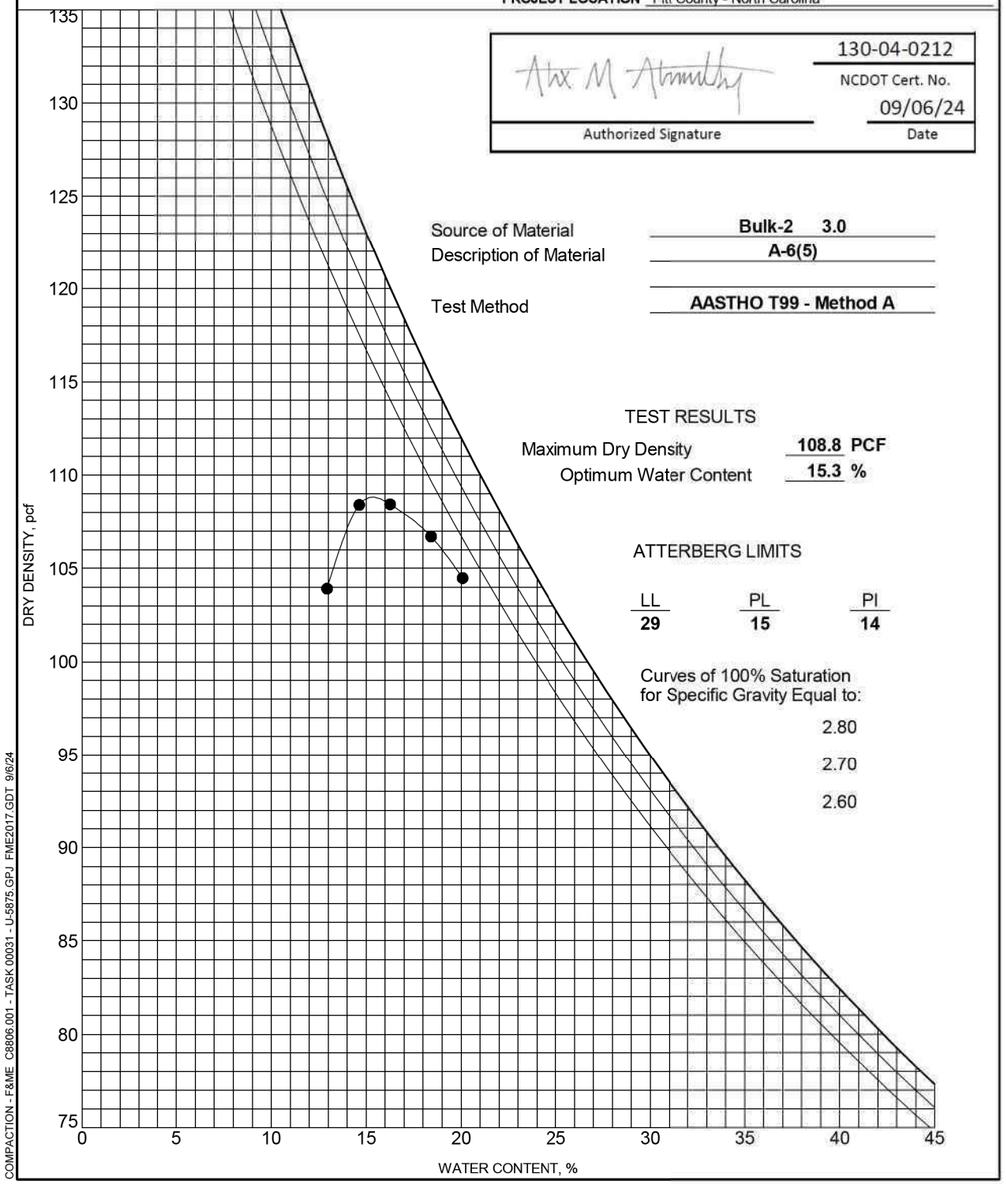
09/06/24
Date

MOISTURE-DENSITY RELATIONSHIP

F&ME CONSULTANTS

PROJECT ID C8806.001 - Task 00031 (NCDOT TIP No. U-5875) **PROJECT NAME** SR 1203 from SR 1467 to US 13

PROJECT LOCATION Pitt County - North Carolina



Alex M Abernethy — Authorized Signature

130-04-0212 — NCDOT Cert. No.

09/06/24 — Date

Source of Material: Bulk-2 3.0

Description of Material: A-6(5)

Test Method: AASTHO T99 - Method A

TEST RESULTS

Maximum Dry Density: 108.8 PCF

Optimum Water Content: 15.3 %

ATTERBERG LIMITS

LL	PL	PI
29	15	14

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

COMPACTION - F&ME C8806.001 - TASK 00031 - U-5875.GPJ FME2017.GDT 9/6/24

REV 03/2024

SPECIFIC GRAVITY OF SOILS
(ASTM D854 / AASHTO T100)

Project Name:	SR 1203 (Allen Road) from SR 1467 (Stantonsburg Road) to US 13 (Dickinson Ave. Extension)	**Project No.:**	C8806.001 - Task 00031
FME Lab ID	24-2733	**Depth (ft.):**	0.0 - 3.0
Description of Soil:	A-6(5)	**Date Received:**	8/16/2024
Method:	A X B		
Tested By:	Alex Abernethy	**Date Tested:**	8/22/2024

Boring No.	Bulk-2			
Sample Depth (ft.)	0.0 - 3.0			
Volume of Flask at 20° C	500 mL			
Method of Air Removal	Boiling			
Mass Flask + Water + Soil (Wb)	755.07			
Test Temperature ° C (Tx)	24.0			
Mass Flask + Water (Wa)	692.62			
Container No.	D			
Mass of Container + Oven Dry Soil	294.99			
Mass of Container	194.99			
Mass of Oven Dry Soil (Wo)	100.00			
Specific Gravity @ Test Temperature Wo/[Wo+(Wa-Wb)]	2.663			
Specific Gravity (SG) K x Specific Gravity @ Test Temperature	2.661			

Remarks:

Alex M Abernethy — Authorized Signature

130-04-0212 — NCDOT Cert. No

9/6/2024 — Date

REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

SAMPLE INFORMATION

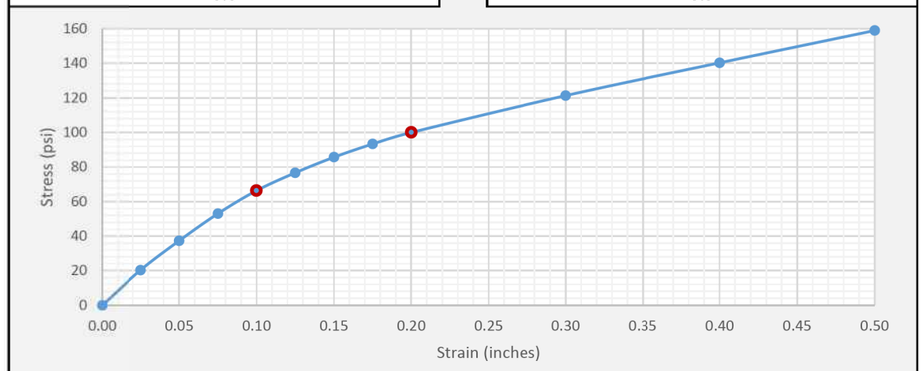
Project Name	SR 1203 from SR 1467 to US 13			NCDOT STIP NO.	U-5875
Sample Location	Bulk-2 (Speicmen A)			FME Lab ID	24-2733
Soil Description	A-6(5)			Depth/Elev.	0.0 - 3.0
Date Sampled	--	Sampled By:	CG2	Date Received	8/16/2024
Date Test Began	8/23/2024	Date Completed	8/27/2024	Tested By	AA/DH

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft^3)	108.8	Optimum Moisture Content (%)	15.3
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS

CBR at 0.10-inch penetration	CBR at 0.20-inch penetration
6.6	**6.7**



Before Soaking	
Dry Density (lb/ft^3)	109.9
Moisture Content	14.1%
Percent Compaction	101.0%
Percent Shrink/Swell	--

After Soaking	
Dry Density (lb/ft^3)	106.9
Moisture Content (Top 1")	22.1%
Percent Compaction	98.3%
Percent Shrink/Swell	1.6%

ADDITIONAL COMMENTS

Target %Compaction = 100%

F&ME CONSULTANTS

F&ME Consultants, Inc.
211 Business Park Blvd., Columbia, South Carolina 29203

Authorized Signature

130-04-0212
NCDOT Cert. No.

09/06/24
Date

REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

SAMPLE INFORMATION

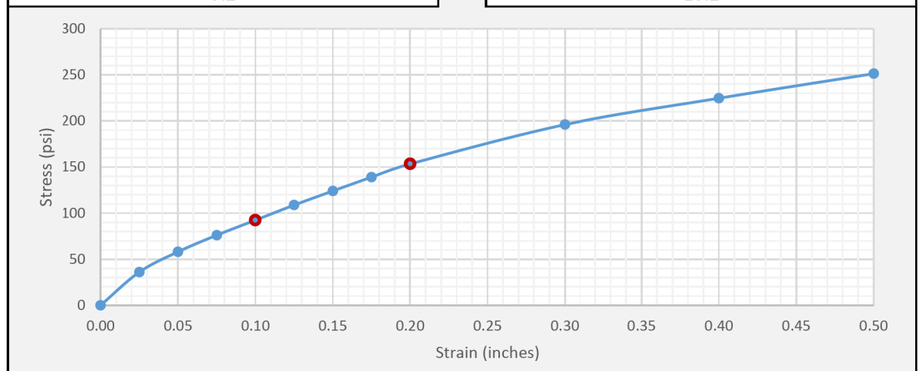
Project Name	SR 1203 from SR 1467 to US 13			NCDOT STIP NO.	U-5875
Sample Location	Bulk-2 (Specimen B)			FME Lab ID	24-2733
Soil Description	A-6(5)			Depth/Elev.	0.0 - 3.0
Date Sampled	--	Sampled By:	CG2	Date Received	8/16/2024
Date Test Began	8/23/2024	Date Completed	8/27/2024	Tested By	AA/DH

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft^3)	108.8	Optimum Moisture Content (%)	15.3
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS

CBR at 0.10-inch penetration	CBR at 0.20-inch penetration
9.2	**10.2**



Before Soaking	
Dry Density (lb/ft^3)	109.5
Moisture Content	14.5%
Percent Compaction	100.7%
Percent Shrink/Swell	--

After Soaking	
Dry Density (lb/ft^3)	106.1
Moisture Content (Top 1")	22.1%
Percent Compaction	97.6%
Percent Shrink/Swell	1.1%

ADDITIONAL COMMENTS

Target %Compaction = 100%

F&ME CONSULTANTS

F&ME Consultants, Inc.
211 Business Park Blvd., Columbia, South Carolina 29203

Authorized Signature

130-04-0212
NCDOT Cert. No.

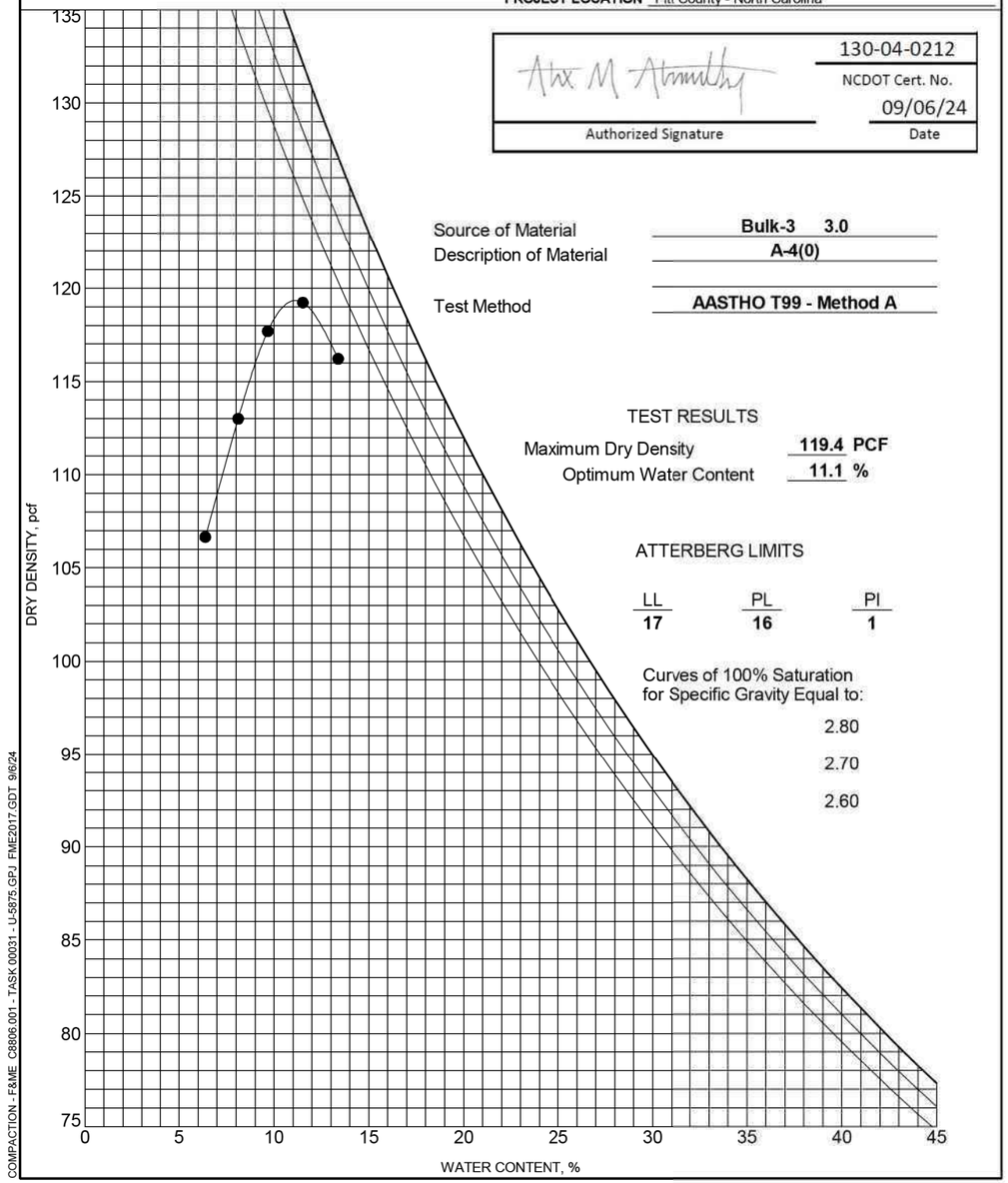
09/06/24
Date

MOISTURE-DENSITY RELATIONSHIP

F&ME CONSULTANTS

PROJECT ID C8806.001 - Task 00031 (NCDOT TIP No. U-5875) **PROJECT NAME** SR 1203 from SR 1467 to US 13

PROJECT LOCATION Pitt County - North Carolina



Alex M Abernethy — Authorized Signature

130-04-0212 — NCDOT Cert. No.

09/06/24 — Date

Source of Material: Bulk-3 3.0

Description of Material: A-4(0)

Test Method: AASTHO T99 - Method A

TEST RESULTS

Maximum Dry Density: 119.4 PCF

Optimum Water Content: 11.1 %

ATTERBERG LIMITS

LL	PL	PI
17	16	1

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

COMPACTION - F&ME C8806.001 - TASK 00031 - U-5875.GPJ FME2017.GDT 9/6/24

REV 03/2024

SPECIFIC GRAVITY OF SOILS
(ASTM D854 / AASHTO T100)

Project Name:	SR 1203 (Allen Road) from SR 1467 (Stantonsburg Road) to US 13 (Dickinson Ave. Extension)	**Project No.:**	C8806.001 - Task 00031
FME Lab ID	24-2734	**Depth (ft.):**	1.0 - 3.0
Description of Soil:	A-4(0)	**Date Received:**	8/16/2024
Method:	A X B		
Tested By:	Alex Abernethy	**Date Tested:**	8/22/2024

Boring No.	Bulk-3			
Sample Depth (ft.)	1.0 - 3.0			
Volume of Flask at 20° C	500 mL			
Method of Air Removal	Boiling			
Mass Flask + Water + Soil (Wb)	767.32			
Test Temperature ° C (Tx)	24.0			
Mass Flask + Water (Wa)	704.71			
Container No.	A			
Mass of Container + Oven Dry Soil	306.73			
Mass of Container	206.73			
Mass of Oven Dry Soil (Wo)	100.00			
Specific Gravity @ Test Temperature Wo/[Wo+(Wa-Wb)]	2.675			
Specific Gravity (SG) K x Specific Gravity @ Test Temperature	2.672			

Remarks:

Alex M Abernethy — Authorized Signature

130-04-0212 — NCDOT Cert. No

9/6/2024 — Date

REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

SAMPLE INFORMATION

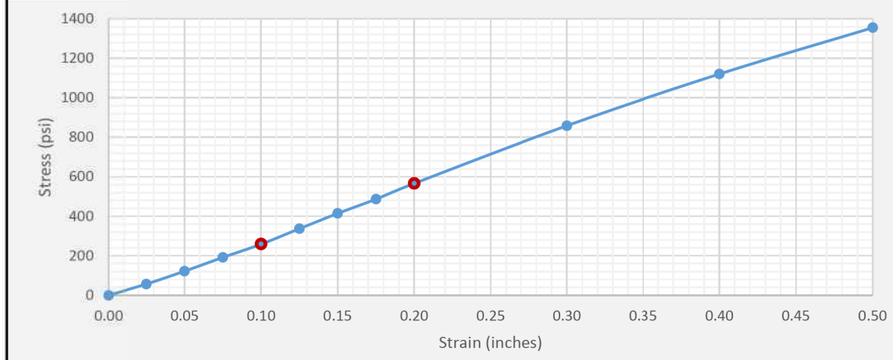
Project Name	SR 1203 from SR 1467 to US 13			NCDOT STIP NO.	U-5875
Sample Location	Bulk-3 (Specimen A)			FME Lab ID	24-2734
Soil Description	A-4(0)			Depth/Elev.	1.0 - 3.0
Date Sampled	--	Sampled By:	CG2	Date Received	8/16/2024
Date Test Began	8/23/2024	Date Completed	8/27/2024	Tested By	AA/DH

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft^3)	119.4	Optimum Moisture Content (%)	11.1
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS

CBR at 0.10-inch penetration	CBR at 0.20-inch penetration
25.9	**37.8**



Before Soaking	
Dry Density (lb/ft^3)	120.8
Moisture Content	10.9%
Percent Compaction	101.1%
Percent Shrink/Swell	--

After Soaking	
Dry Density (lb/ft^3)	121.4
Moisture Content (Top 1")	12.5%
Percent Compaction	101.7%
Percent Shrink/Swell	0.0%

ADDITIONAL COMMENTS

Target %Compaction = 100%

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09/06/24
Date

REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

SAMPLE INFORMATION

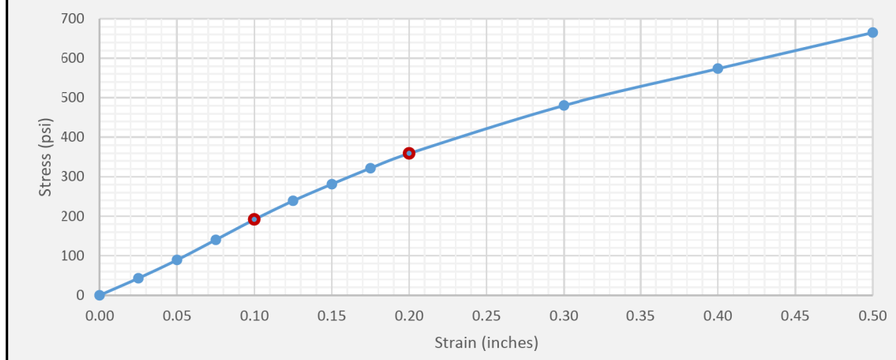
Project Name	SR 1203 from SR 1467 to US 13			NCDOT STIP NO.	U-5875
Sample Location	Bulk-3 (Specimen B)			FME Lab ID	24-2734
Soil Description	A-4(0)			Depth/Elev.	1.0 - 3.0
Date Sampled	--	Sampled By:	CG2	Date Received	8/16/2024
Date Test Began	8/23/2024	Date Completed	8/27/2024	Tested By	AA/DH

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft^3)	119.4	Optimum Moisture Content (%)	11.1
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS

CBR at 0.10-inch penetration	CBR at 0.20-inch penetration
19.2	**23.9**



Before Soaking	
Dry Density (lb/ft^3)	119.7
Moisture Content	10.7%
Percent Compaction	100.2%
Percent Shrink/Swell	--

After Soaking	
Dry Density (lb/ft^3)	121.5
Moisture Content (Top 1")	11.4%
Percent Compaction	101.7%
Percent Shrink/Swell	0.0%

ADDITIONAL COMMENTS

Target %Compaction = 100%

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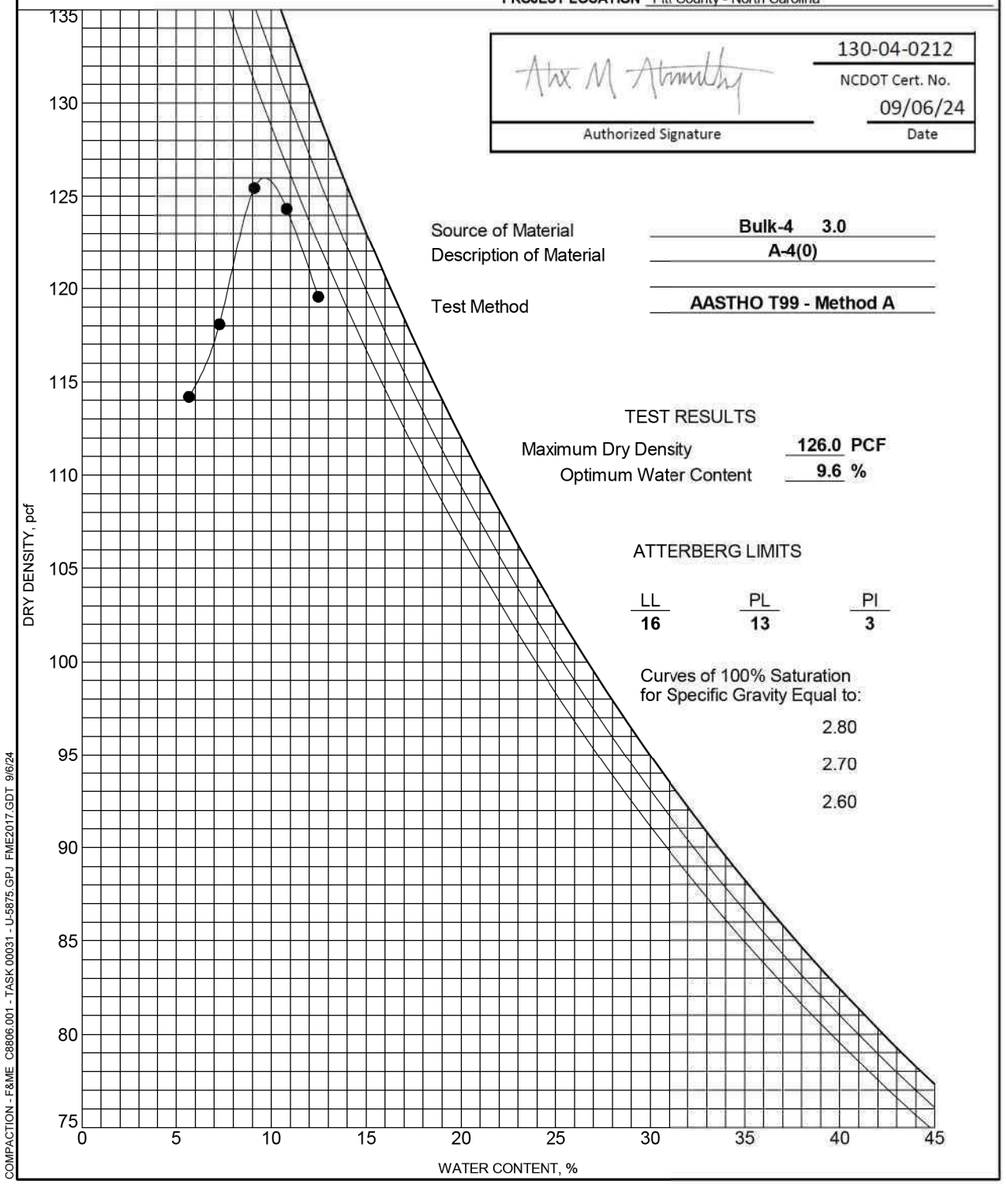
MOISTURE-DENSITY RELATIONSHIP

F&ME CONSULTANTS

PROJECT ID C8806.001 - Task 00031 (NCDOT TIP No. U-5875) **PROJECT NAME** SR 1203 from SR 1467 to US 13

PROJECT LOCATION Pitt County - North Carolina



Alex M Abernethy — Authorized Signature

130-04-0212 — NCDOT Cert. No.

09/06/24 — Date

Source of Material: Bulk-4 3.0

Description of Material: A-4(0)

Test Method: AASTHO T99 - Method A

TEST RESULTS

Maximum Dry Density: 126.0 PCF

Optimum Water Content: 9.6 %

ATTERBERG LIMITS

LL	PL	PI
16	13	3

Curves of 100% Saturation for Specific Gravity Equal to:

2.80

2.70

2.60

COMPACTION - F&ME C8806.001 - TASK 00031 - U-5875.GPJ FME2017.GDT 9/6/24

SPECIFIC GRAVITY OF SOILS
(ASTM D854 / AASHTO T100)

Project Name:	SR 1203 (Allen Road) from SR 1467 (Stantonsburg Road) to US 13 (Dickinson Ave. Extension)	**Project No.:**	C8806.001 - Task 00031
FME Lab ID	24-2735	**Depth (ft.):**	1.0 - 3.0
Description of Soil:	A-4(0)	**Date Received:**	8/16/2024
Method:	A X B		
Tested By:	Alex Abernethy	**Date Tested:**	8/22/2024

Boring No.	Bulk-4			
Sample Depth (ft.)	1.0 - 3.0			
Volume of Flask at 20° C	500 mL			
Method of Air Removal	Boiling			
Mass Flask + Water + Soil (Wb)	759.92			
Test Temperature ° C (Tx)	24.0			
Mass Flask + Water (Wa)	697.26			
Container No.	J			
Mass of Container + Oven Dry Soil	299.29			
Mass of Container	199.29			
Mass of Oven Dry Soil (Wo)	100.00			
Specific Gravity @ Test Temperature Wo/[Wo+(Wa-Wb)]	2.678			
Specific Gravity (SG) K x Specific Gravity @ Test Temperature	2.676			

Remarks:

Alex M Abernethy — Authorized Signature

130-04-0212 — NCDOT Cert. No

9/6/2024 — Date

REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

SAMPLE INFORMATION

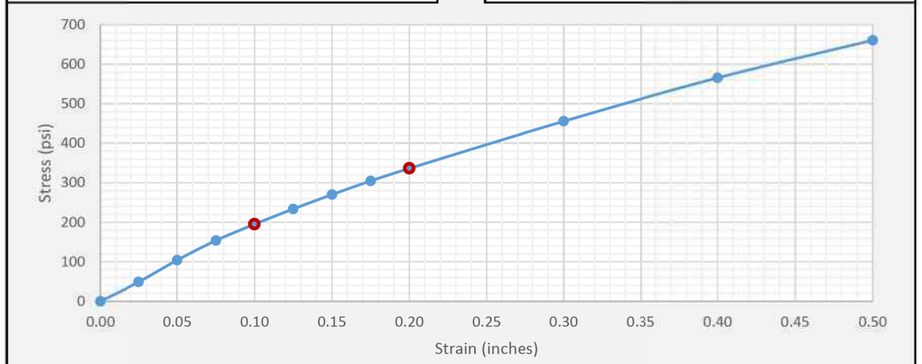
Project Name	SR 1203 from SR 1467 to US 13			NCDOT STIP NO.	U-5875
Sample Location	Bulk-4 (Specimen A)			FME Lab ID	24-2735
Soil Description	A-4(0)			Depth/Elev.	1.0 - 3.0
Date Sampled	--	Sampled By:	CG2	Date Received	8/16/2024
Date Test Began	8/23/2024	Date Completed	8/27/2024	Tested By	AA/DH

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft^3)	126.0	Optimum Moisture Content (%)	9.6
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS

CBR at 0.10-inch penetration	CBR at 0.20-inch penetration
19.5	**22.4**



Before Soaking	
Dry Density (lb/ft^3)	126.4
Moisture Content	9.4%
Percent Compaction	100.3%
Percent Shrink/Swell	--

After Soaking	
Dry Density (lb/ft^3)	125.1
Moisture Content (Top 1")	12.5%
Percent Compaction	99.3%
Percent Shrink/Swell	0.2%

ADDITIONAL COMMENTS

Target %Compaction = 100%

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09/06/24
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REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

SAMPLE INFORMATION

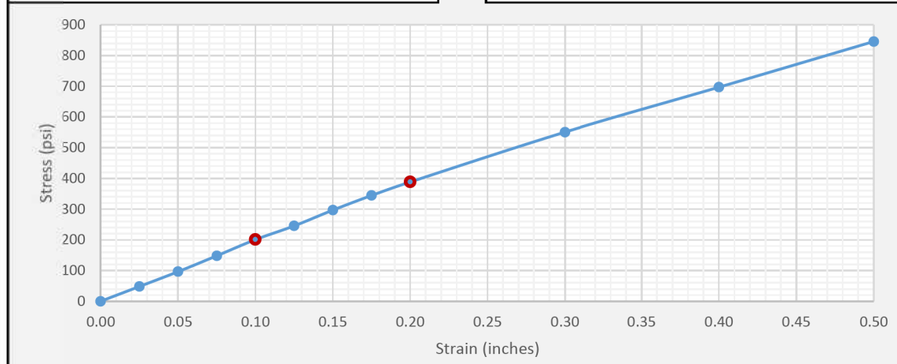
Project Name	SR 1203 from SR 1467 to US 13			NCDOT STIP NO.	U-5875
Sample Location	Bulk-4 (Specimen B)			FME Lab ID	24-2735
Soil Description	A-4(0)			Depth/Elev.	1.0 - 3.0
Date Sampled	--	Sampled By:	CG2	Date Received	8/16/2024
Date Test Began	8/23/2024	Date Completed	8/27/2024	Tested By	AA/DH

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft^3)	126.0	Optimum Moisture Content (%)	9.6
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS

CBR at 0.10-inch penetration	CBR at 0.20-inch penetration
20.1	**25.9**



Before Soaking	
Dry Density (lb/ft^3)	126.1
Moisture Content	9.5%
Percent Compaction	100.1%
Percent Shrink/Swell	--

After Soaking	
Dry Density (lb/ft^3)	126.2
Moisture Content (Top 1")	11.5%
Percent Compaction	100.2%
Percent Shrink/Swell	0.1%

ADDITIONAL COMMENTS

Target %Compaction = 100%

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