

REFERENCE: R-5921

PROJECT: 48470

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

**ROADWAY**  
**SUBSURFACE INVESTIGATION**

COUNTY HAYWOOD  
 PROJECT DESCRIPTION US 276 (JOHNATHAN CREEK  
RD) FROM US 19 TO 0.5 MILES SOUTH OF I-40

**PAVEMENT AND SUBGRADE INVESTIGATION**

**CONTENTS**

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
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3	ROADWAY TITLE SHEET
4-21	PLAN SHEETS
22-31	PAVEMENT INVESTIGATION DATA SHEETS
32-103	DUAL MASS DCP DATA SHEETS
104-108	PAVEMENT CORE PHOTOS
109-119	LABORATORY TEST RESULTS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5921	1	119

**CAUTION NOTICE**

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES:
- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
  - BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

M. BREWER  
P. TOMASIC

INVESTIGATED BY CG2, PLLC.  
 DRAWN BY T. WENNER, P.G.  
 CHECKED BY M. BREWER, P.E.  
 SUBMITTED BY CG2, PLLC.  
 DATE OCTOBER 2023

Prepared in the Office of:  
 **CAROLINAS GEOTECHNICAL GROUP**  
 2400 CROWNPOINT EXECUTIVE DRIVE  
 SUITE 800  
 CHARLOTTE, NC 28227  
 (980) 339-8684



SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

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

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

SOIL DESCRIPTION										GRADATION										ROCK DESCRIPTION										TERMS AND DEFINITIONS																																																																									
<p>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</p>										<p>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.</p>										<p>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:</p>										<p>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 DISLOGGED 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 (ROD) - 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 (IN 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 (SROD) - 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.</p>																																																																									
SOIL LEGEND AND AASHTO CLASSIFICATION										ANGULARITY OF GRAINS										WEATHERED ROCK (WR)										NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.																																																																									
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<p>MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.</p>										<p>SLIGHTLY COMPRESSIBLE LL &lt; 31 MODERATELY COMPRESSIBLE LL = 31 - 50 HIGHLY COMPRESSIBLE LL &gt; 50</p>										<p>ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.</p>										<p>VERY SLIGHT (V SL.) - 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.</p>																																																																									
PERCENTAGE OF MATERIAL										GROUND WATER										MODERATE (MOD.)										SEVERE (SEV.)																																																																									
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>SOIL MOISTURE SCALE (ATTERBERG LIMITS)</th> <th>FIELD MOISTURE DESCRIPTION</th> <th>GUIDE FOR FIELD MOISTURE DESCRIPTION</th> </tr> <tr> <td>LL - LIQUID LIMIT</td> <td>- SATURATED - (SAT.)</td> <td>USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE</td> </tr> <tr> <td>PL - PLASTIC LIMIT</td> <td>- WET - (W)</td> <td>SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE</td> </tr> <tr> <td>OM - OPTIMUM MOISTURE SHRINKAGE LIMIT</td> <td>- MOIST - (M)</td> <td>SOLID; AT OR NEAR OPTIMUM MOISTURE</td> </tr> <tr> <td>SL - SHRINKAGE LIMIT</td> <td>- DRY - (D)</td> <td>REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE</td> </tr> </table>										SOIL MOISTURE SCALE (ATTERBERG LIMITS)	FIELD MOISTURE DESCRIPTION	GUIDE FOR FIELD MOISTURE DESCRIPTION	LL - LIQUID LIMIT	- SATURATED - (SAT.)	USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE	PL - PLASTIC LIMIT	- WET - (W)	SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE	OM - OPTIMUM MOISTURE SHRINKAGE LIMIT	- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE	SL - SHRINKAGE LIMIT	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE	<p>AR - AUGER REFUSAL BT - BORING TERMINATED CL - CLAY CPT - COARSE 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</p> <p>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</p> <p>VST - VANE SHEAR TEST WEA. - WEATHERED W - UNIT WEIGHT W<sub>d</sub> - DRY UNIT WEIGHT</p> <p>SAMPLE ABBREVIATIONS S - BULK SS - SPLIT SPOON ST - SHELBY TUBE RS - ROCK RT - RECOMPACTED TRIAXIAL CBR - CALIFORNIA BEARING RATIO</p>										<p>CAN BE GROUDED 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.</p>										<p>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 FINGER NAIL.</p>																																																										
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NON PLASTIC</th> <th colspan="2">PLASTICITY INDEX (PI)</th> <th>DRY STRENGTH</th> </tr> <tr> <td>SLIGHTLY PLASTIC</td> <td>0-5</td> <td></td> <td>VERY LOW</td> </tr> <tr> <td>MODERATELY PLASTIC</td> <td>6-15</td> <td></td> <td>SLIGHT</td> </tr> <tr> <td>HIGHLY PLASTIC</td> <td>16-25</td> <td></td> <td>MEDIUM</td> </tr> <tr> <td></td> <td>26 OR MORE</td> <td></td> <td>HIGH</td> </tr> </table>										NON PLASTIC	PLASTICITY INDEX (PI)		DRY STRENGTH	SLIGHTLY PLASTIC	0-5		VERY LOW	MODERATELY PLASTIC	6-15		SLIGHT	HIGHLY PLASTIC	16-25		MEDIUM		26 OR MORE		HIGH	<p>DRILL UNITS:</p> <p>CME-45C</p> <p>CME-55</p> <p>CME-550X</p> <p>VANE SHEAR TEST</p> <p>PORTABLE HOIST</p> <p>MOBILE B29</p> <p>ADVANCING TOOLS:</p> <p>CLAY BITS</p> <p>6" CONTINUOUS FLIGHT AUGER</p> <p>4" SOLID STEM AUGERS</p> <p>HARD FACED FINGER BITS</p> <p>TUNG-CARBIDE INSERTS</p> <p>CASING w/ ADVANCER</p> <p>TRICONE *STEEL TEETH</p> <p>TRICONE *TUNG-CARB.</p> <p>CORE BIT (4-INCH DIAMETER)</p> <p>HAMMER TYPE:</p> <p>AUTOMATIC</p> <p>MANUAL</p> <p>CORE SIZE:</p> <p>B</p> <p>H</p> <p>N</p> <p>HAND TOOLS:</p> <p>POST HOLE DIGGER</p> <p>HAND AUGER</p> <p>SOUNDING ROD</p> <p>VANE SHEAR TEST</p> <p>DUAL MASS DCP</p>										<p>VERY WIDE MORE THAN 10 FEET</p> <p>WIDE 3 TO 10 FEET</p> <p>MODERATELY CLOSE 1 TO 3 FEET</p> <p>CLOSE 0.16 TO 1 FOOT</p> <p>VERY CLOSE LESS THAN 0.16 FEET</p>										<p>VERY THICKLY BEDDED 4 FEET</p> <p>THICKLY BEDDED 1.5 - 4 FEET</p> <p>THINLY BEDDED 0.16 - 1.5 FEET</p> <p>VERY THINLY BEDDED 0.03 - 0.16 FEET</p> <p>THICKLY LAMINATED 0.008 - 0.03 FEET</p> <p>THINLY LAMINATED &lt; 0.008 FEET</p>																																																					
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COLOR										INDURATION										FRAGILE										MODERATELY INDURATED																																																																									
<p>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.</p>										<p>FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.</p>										<p>RUBBING WITH FINGER FREES NUMEROUS GRAINS; GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE.</p>										<p>GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.</p>																																																																									
BENCH MARK: N/A										ELEVATION: FEET										NOTES:										ROADWAY DESIGN FILES DATED 8/10/22 PROVIDED BY TGS																																																																									
																				<p>PAVEMENT CORE WITH DCP</p> <p>BULK SAMPLE</p> <p>DCP</p>																																																																																			

## Tip No. R-5921 | WBS No. 48470.1.1 | Haywood County

### ABBREVIATIONS

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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

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

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 = Chemical Stabilized Soil

SG = Subgrade

AR = Auger Refusal

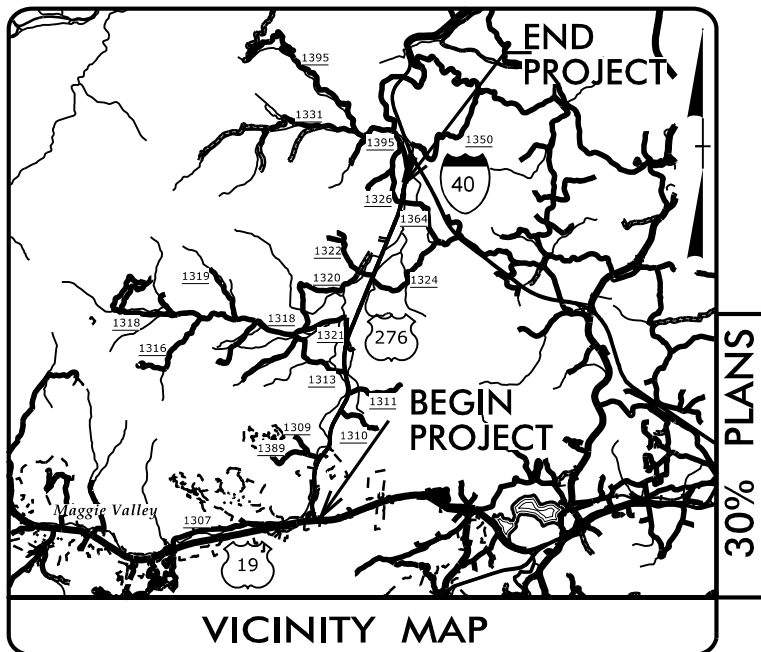
MP = Moderately Plastic

HP = Highly Plastic

25-JUL-2023 11:29 C:\Users\RobKral\OneDrive\Documents\Projects\0142 - R-5921 - US 276 from US 19 to I-40\_TGS\CADD\_GEO\TECH\PlanProf\R-5921\RDY\_tsh.dgn  
 09/08/99  
 RobKral\_AT\_TGS-COMPUTER

**TIP PROJECT: R-5921**

See Sheet 1A For Index of Sheets



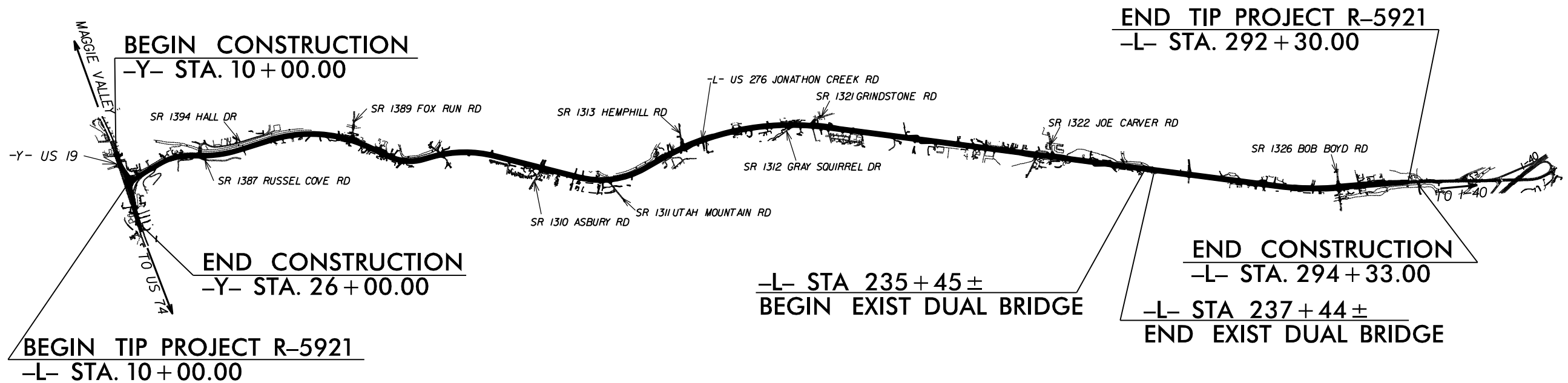
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**HAYWOOD COUNTY**

**LOCATION: US 276 (JONATHAN CREEK RD) FROM US 19 TO  
0.5 MILES SOUTH OF I-40**

**TYPE OF WORK: GRADING, PAVING, AND DRAINAGE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5921	3	119
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48470.1.1	0276019	PE	



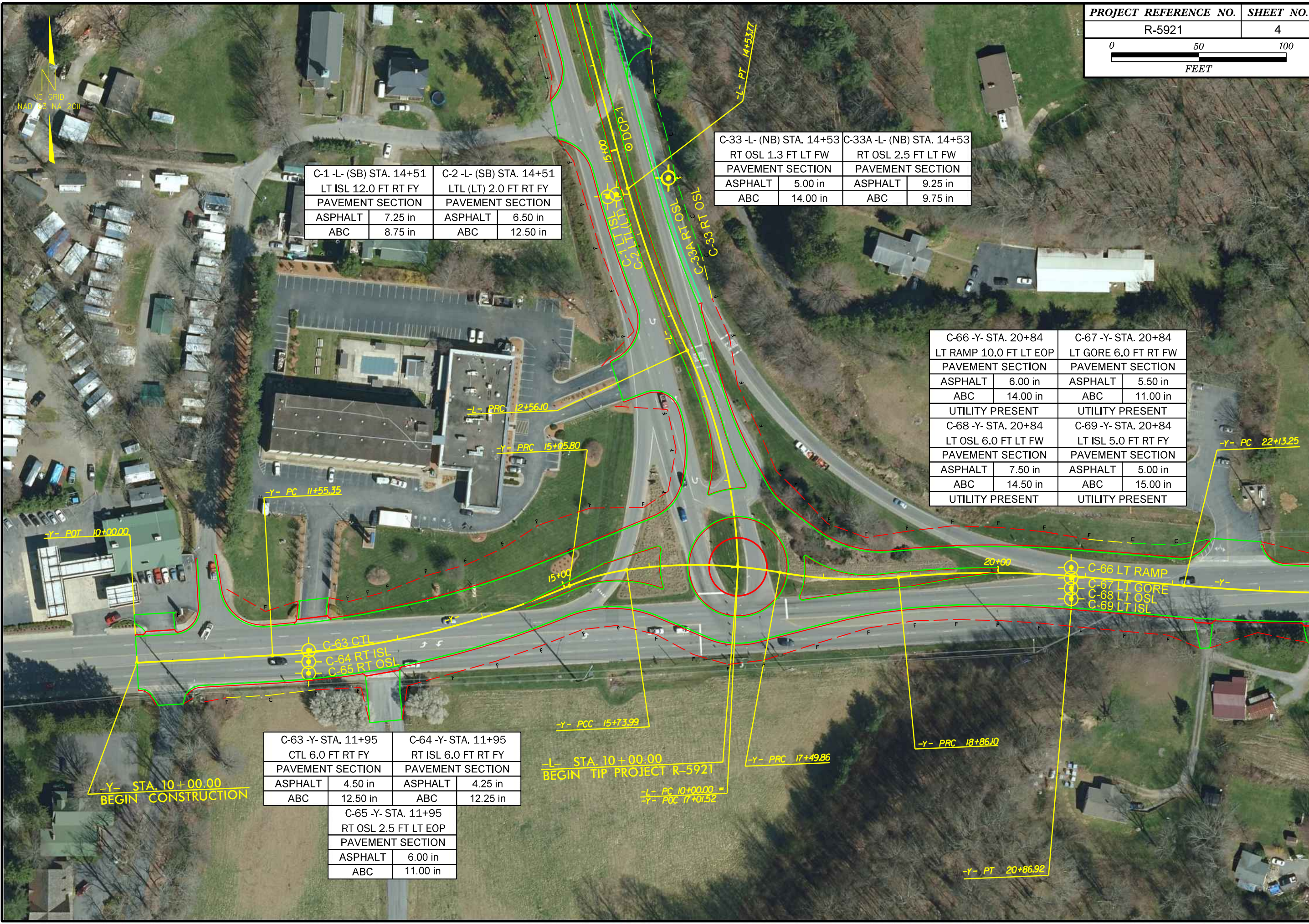
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.  
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF MAGGIE VALLEY

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION  
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT:**

<p><b>GRAPHIC SCALES</b></p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20 PROFILE (VERTICAL)</p>	<p><b>DESIGN DATA</b></p> <p>ADT 2023 = 5,400 - 13,600 ADT 2045 = 7,000 - 17,500 K = 9 % D = 55 % T = 7 % * V = 60 MPH * TTST = 3% DUAL = 4% FUNC CLASS = MINOR RURAL ARTERIAL REGIONAL TIER</p>	<p><b>PROJECT LENGTH</b></p> <p>LENGTH ROADWAY TIP PROJECT R-5921 = 5.347 MILES TOTAL LENGTH TIP PROJECT R-5921 = 5.347 MILES</p>	<p>NCDOT CONTACT: JEANETTE WHITE, PE</p>	<p>HYDRAULICS ENGINEER</p>	
			<p>PLANS PREPARED BY:</p> <p><b>TGS ENGINEERS</b> 201 W. MARION ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	<p>PLANS PREPARED FOR:</p> <p><b>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</b> DIVISION 14 252 Webster Rd Sylva, NC 28779</p>	
			<p><b>LETTING DATE:</b> SEPTEMBER 17, 2024</p>	<p><b>AUSTIN R. TURNER, PE</b> PROJECT DESIGN ENGINEER</p>	<p>SIGNATURE: _____ P.E.</p>





NC GRID  
NAD 83 NA 2011

C-1 -L- (SB) STA. 14+51		C-2 -L- (SB) STA. 14+51	
LT ISL 12.0 FT RT FY		LTL (LT) 2.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.25 in	ASPHALT	6.50 in
ABC	8.75 in	ABC	12.50 in

C-33 -L- (NB) STA. 14+53		C-33A -L- (NB) STA. 14+53	
RT OSL 1.3 FT LT FW		RT OSL 2.5 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	5.00 in	ASPHALT	9.25 in
ABC	14.00 in	ABC	9.75 in

C-66 -Y- STA. 20+84		C-67 -Y- STA. 20+84	
LT RAMP 10.0 FT LT EOP		LT GORE 6.0 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.00 in	ASPHALT	5.50 in
ABC	14.00 in	ABC	11.00 in
UTILITY PRESENT		UTILITY PRESENT	
C-68 -Y- STA. 20+84		C-69 -Y- STA. 20+84	
LT OSL 6.0 FT LT FW		LT ISL 5.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.50 in	ASPHALT	5.00 in
ABC	14.50 in	ABC	15.00 in
UTILITY PRESENT		UTILITY PRESENT	

C-63 -Y- STA. 11+95		C-64 -Y- STA. 11+95	
CTL 6.0 FT RT FY		RT ISL 6.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	4.50 in	ASPHALT	4.25 in
ABC	12.50 in	ABC	12.25 in

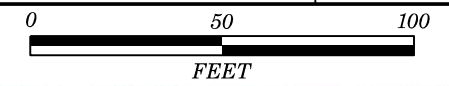
C-65 -Y- STA. 11+95	
RT OSL 2.5 FT LT EOP	
PAVEMENT SECTION	
ASPHALT	6.00 in
ABC	11.00 in

-Y- STA. 10+00.00  
BEGIN CONSTRUCTION

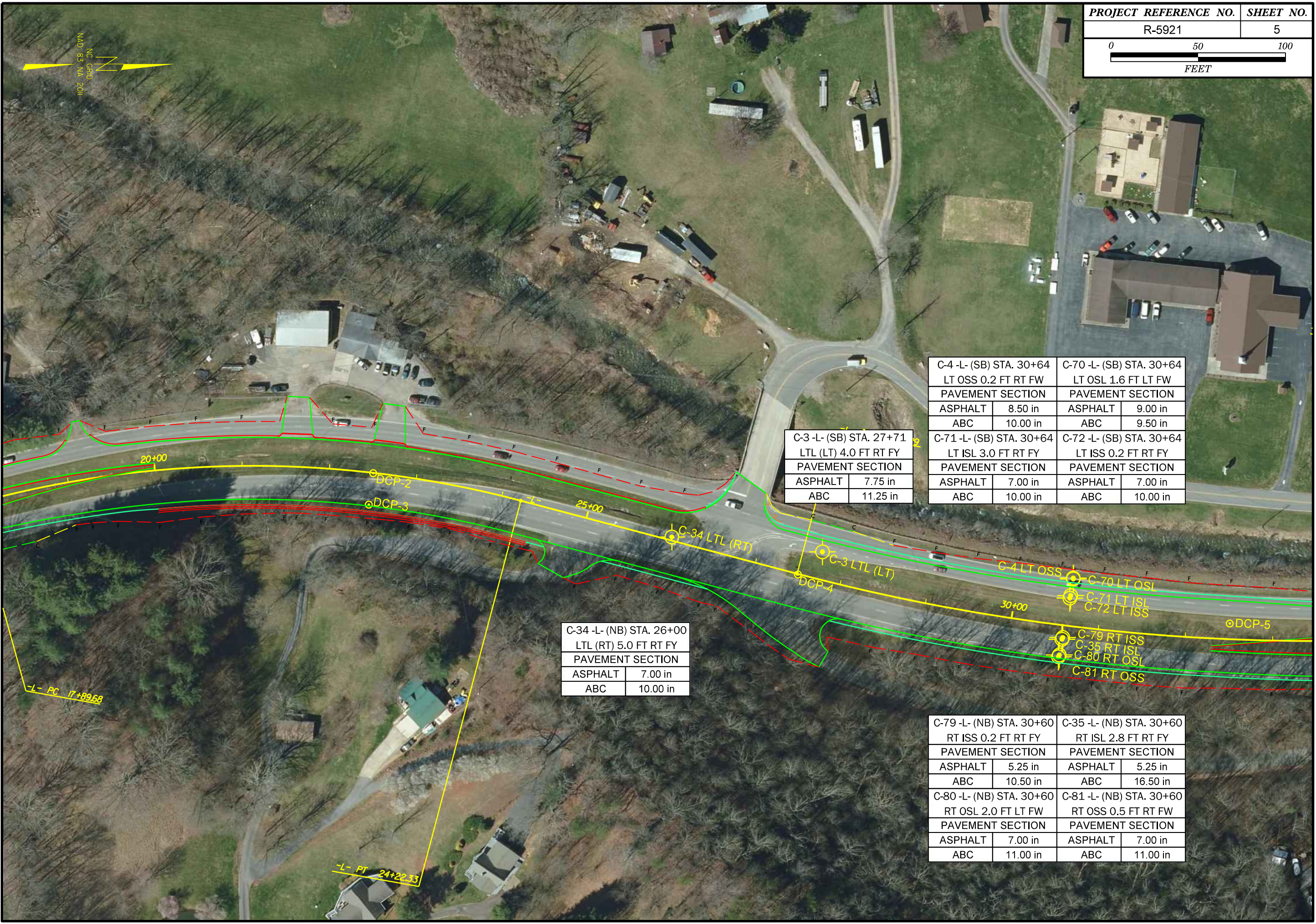
-L- STA. 10+00.00  
BEGIN TIP PROJECT R-5921

- Y- C-66 LT RAMP
- Y- C-67 LT GORE
- Y- C-68 LT OSL
- Y- C-69 LT ISL





NAD 83  
NA 2011  
NC GRID



C-3-L (SB) STA. 27+71	
LTL (LT) 4.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.75 in
ABC	11.25 in

C-4-L (SB) STA. 30+64	
LT OSS 0.2 FT RT FW	
PAVEMENT SECTION	
ASPHALT	8.50 in
ABC	10.00 in

C-70-L (SB) STA. 30+64	
LT OSL 1.6 FT LT FW	
PAVEMENT SECTION	
ASPHALT	9.00 in
ABC	9.50 in

C-71-L (SB) STA. 30+64	
LT ISL 3.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	10.00 in

C-72-L (SB) STA. 30+64	
LT ISS 0.2 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	10.00 in

C-34-L (NB) STA. 26+00	
LTL (RT) 5.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	10.00 in

C-79-L (NB) STA. 30+60	
RT ISS 0.2 FT RT FY	
PAVEMENT SECTION	
ASPHALT	5.25 in
ABC	10.50 in

C-35-L (NB) STA. 30+60	
RT ISL 2.8 FT RT FY	
PAVEMENT SECTION	
ASPHALT	5.25 in
ABC	16.50 in

C-80-L (NB) STA. 30+60	
RT OSL 2.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	11.00 in

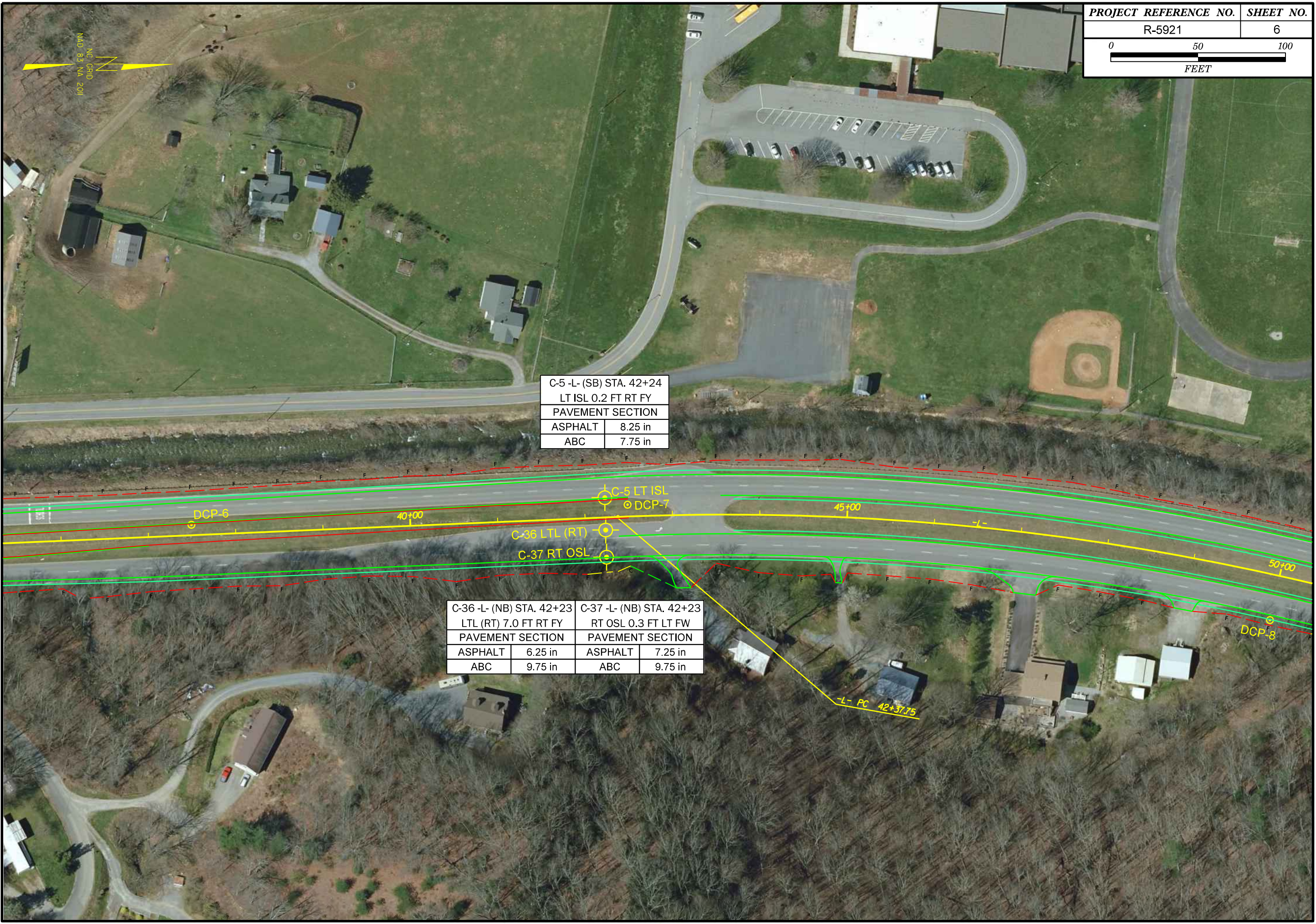
C-81-L (NB) STA. 30+60	
RT OSS 0.5 FT RT FW	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	11.00 in



NC GRID  
NAD 83 NA 2011

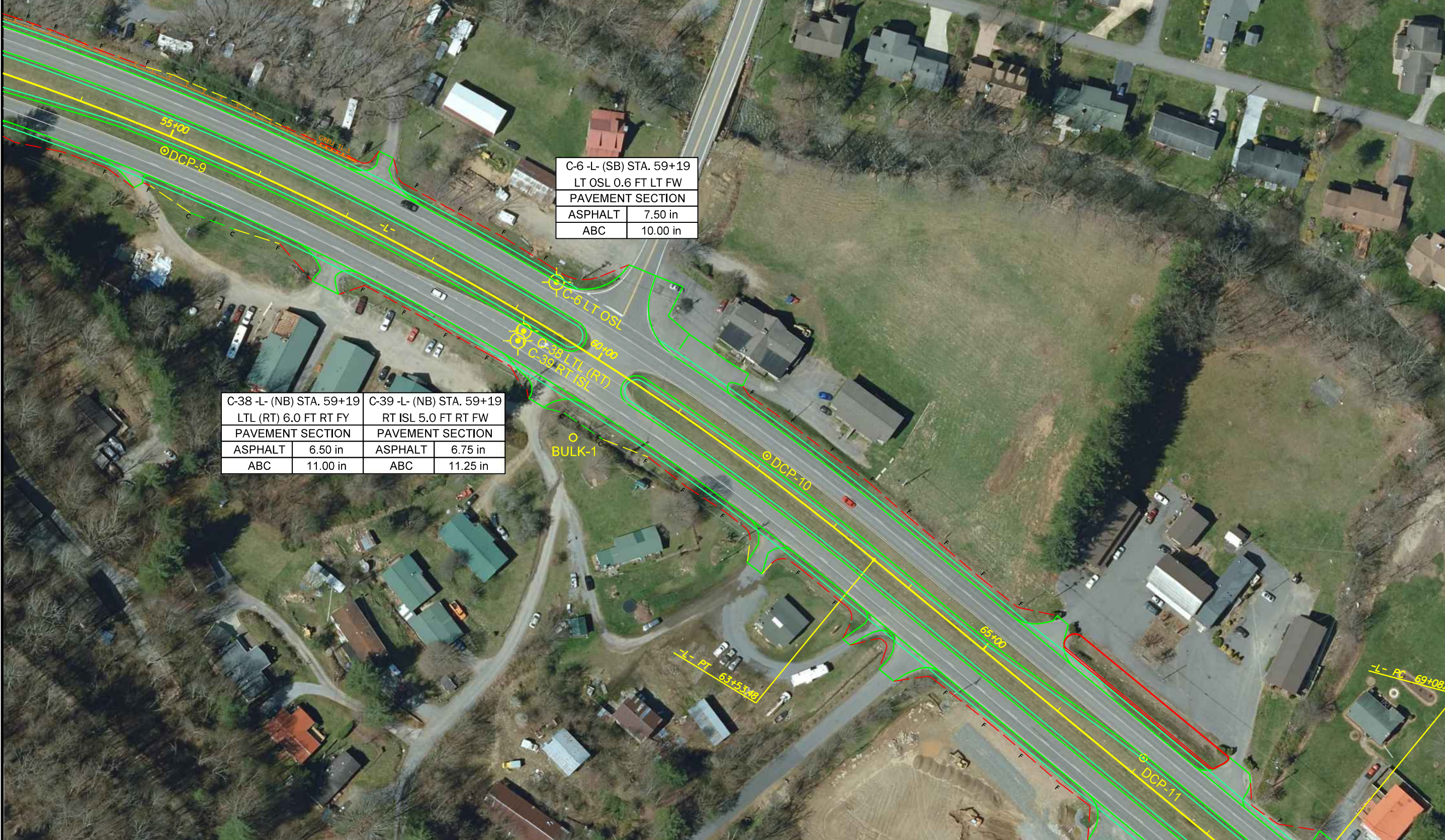
C-5 -L- (SB) STA. 42+24	
LT ISL 0.2 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.25 in
ABC	7.75 in

C-36 -L- (NB) STA. 42+23		C-37 -L- (NB) STA. 42+23	
LTL (RT) 7.0 FT RT FY		RT OSL 0.3 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.25 in	ASPHALT	7.25 in
ABC	9.75 in	ABC	9.75 in





NAD 83  
N.A. 2011  
N.C. GRID



C-6 -L- (SB) STA. 59+19	
LT OSL 0.6 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.50 in
ABC	10.00 in

C-38 -L- (NB) STA. 59+19		C-39 -L- (NB) STA. 59+19	
LTL (RT) 6.0 FT RT FY		RT ISL 5.0 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.50 in	ASPHALT	6.75 in
ABC	11.00 in	ABC	11.25 in

BULK-1

-L- PT 63+53.48

-L- PC 69+08.0

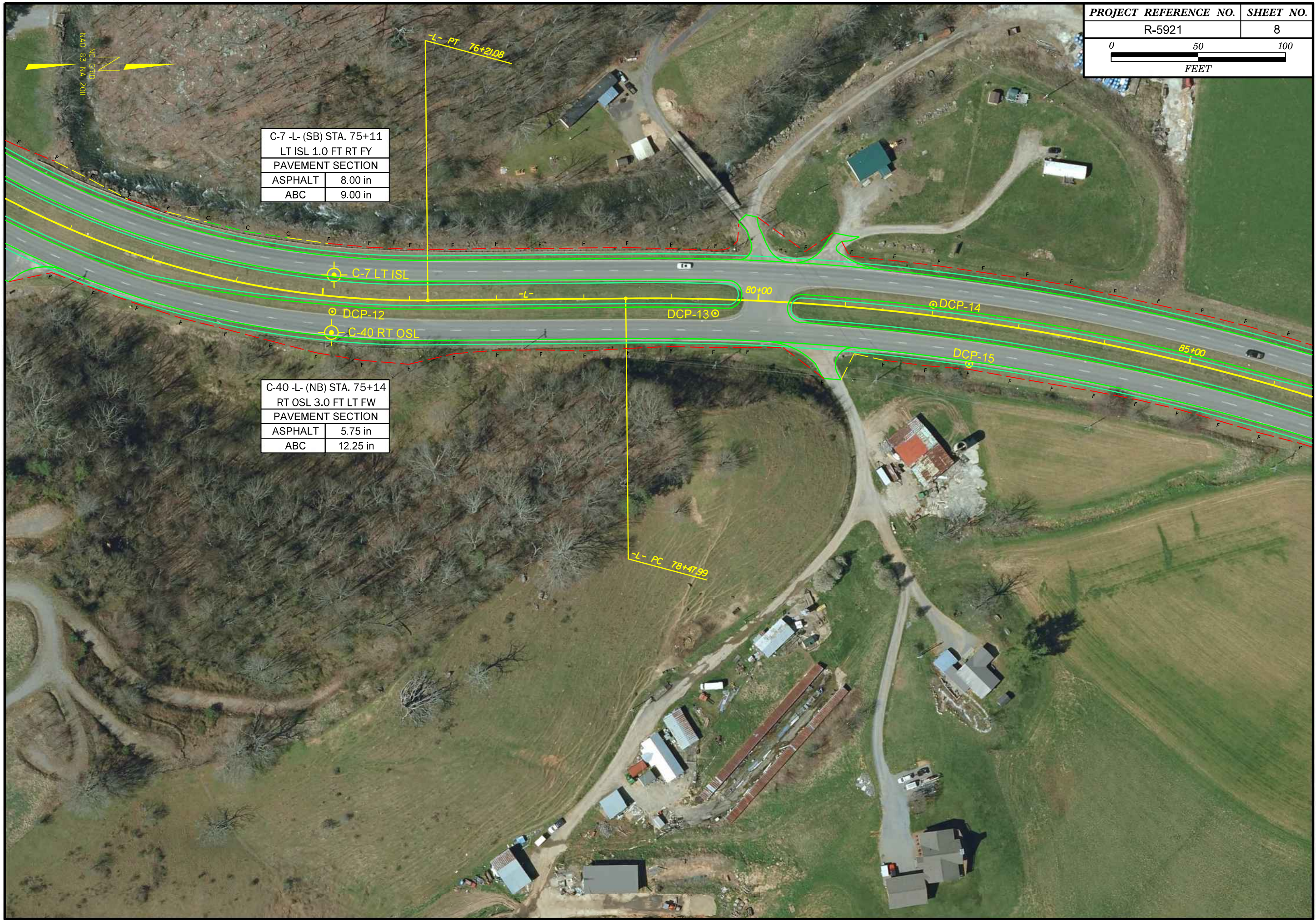




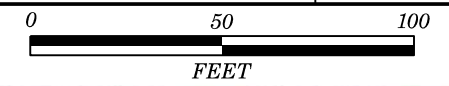
NAD 83 NA 2011

C-7 -L- (SB) STA. 75+11	
LT ISL 1.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.00 in
ABC	9.00 in

C-40 -L- (NB) STA. 75+14	
RT OSL 3.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	5.75 in
ABC	12.25 in







C-8 -L- (SB) STA. 89+64	
LT OSL 0.2 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.75 in
ABC	9.25 in

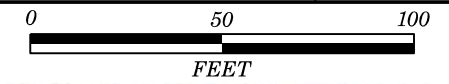
C-41 -L- (NB) STA. 89+63	
RT ISL 0.6 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.75 in
ABC	11.25 in

C-9 -L- (SB) STA. 103+04		C-10 -L- (SB) STA. 103+04	
LT ISL 15.0 FT RT FY		LTL (LT) 4.5 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.75 in	ASPHALT	9.00 in
ABC	9.25 in	ABC	9.50 in

C-42 -L- (NB) STA. 103+01	
RT OSL 2.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.50 in
ABC	12.50 in







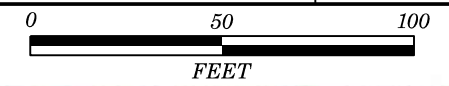
NG 0910  
MAD 83 NA 2011



C-11 -L- (SB) STA. 118+06		C-12 -L- (SB) STA. 118+06	
LT OSL 0.6 FT LT FW		LTL (LT) 5.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.75 in	ASPHALT	7.25 in
ABC	9.75 in	ABC	9.75 in

C-43 -L- (NB) STA. 118+06	
RT ISL 3.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.25 in
ABC	9.75 in

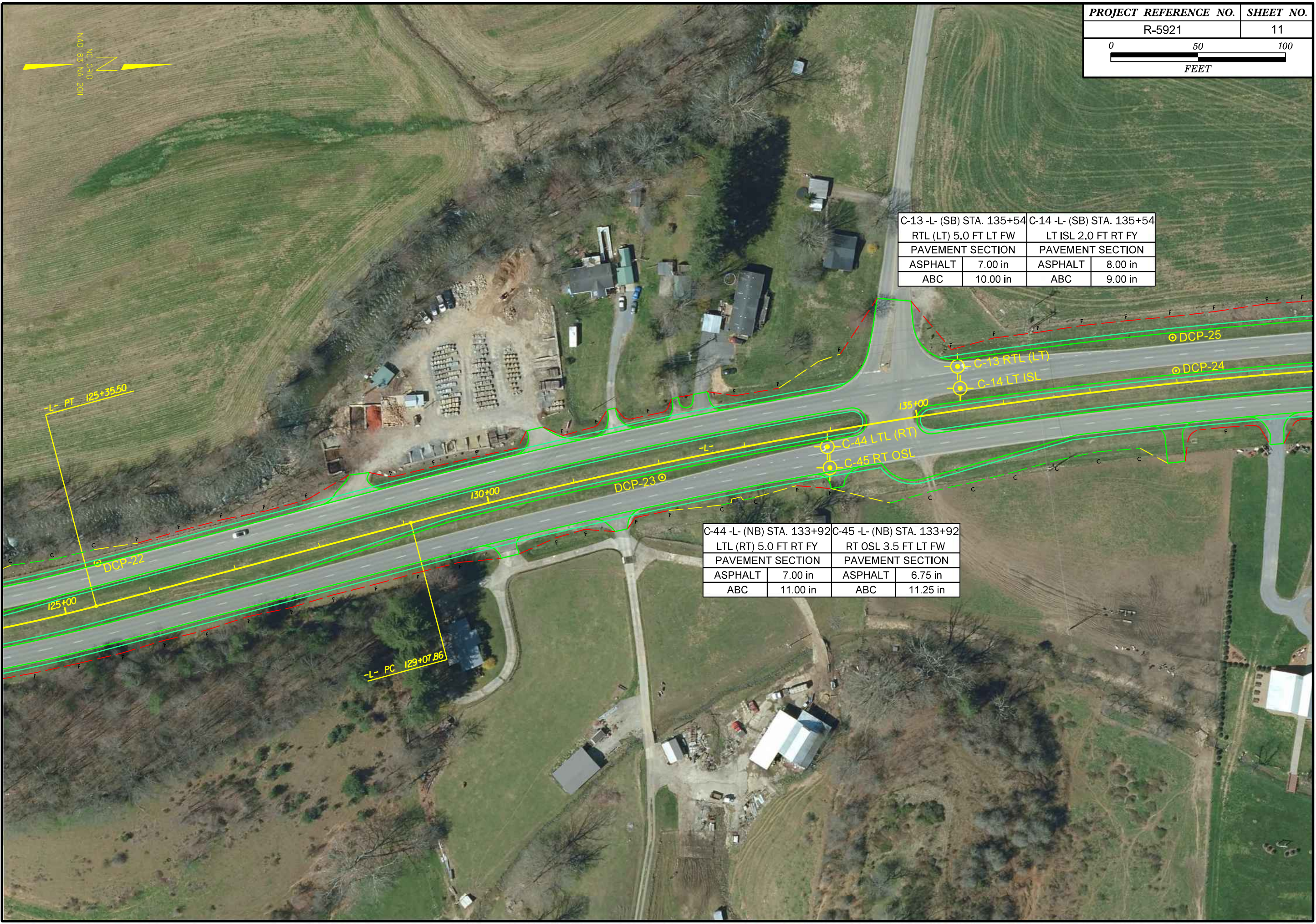




N.C. GRID  
NAD 83 NA 2011

C-13 -L- (SB) STA. 135+54		C-14 -L- (SB) STA. 135+54	
RTL (LT) 5.0 FT LT FW		LT ISL 2.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.00 in	ASPHALT	8.00 in
ABC	10.00 in	ABC	9.00 in

C-44 -L- (NB) STA. 133+92		C-45 -L- (NB) STA. 133+92	
LTL (RT) 5.0 FT RT FY		RT OS� 3.5 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.00 in	ASPHALT	6.75 in
ABC	11.00 in	ABC	11.25 in





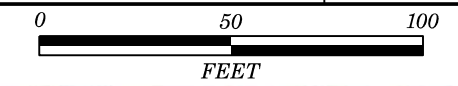


C-15 -L- (SB) STA. 150+00	
LT OSL 3.3 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.50 in
ABC	7.50 in

C-46 -L- (NB) STA. 149+97	
RT ISL 1.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	6.75 in
ABC	13.75 in







C-16 -L- (SB) STA. 159+00	
LTL (LT) 5.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	6.50 in
ABC	12.50 in

C-17 -L- (SB) STA. 163+96	
RTL (LT) 5.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.25 in
ABC	8.25 in

C-18 -L- (SB) STA. 163+96	
LT ISL 0.5 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	10.00 in

C-47 -L- (NB) STA. 157+91	
LTL (RT) 7.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	6.50 in
ABC	13.50 in

C-48 -L- (NB) STA. 162+46	
LTL (RT) 6.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.25 in
ABC	10.75 in

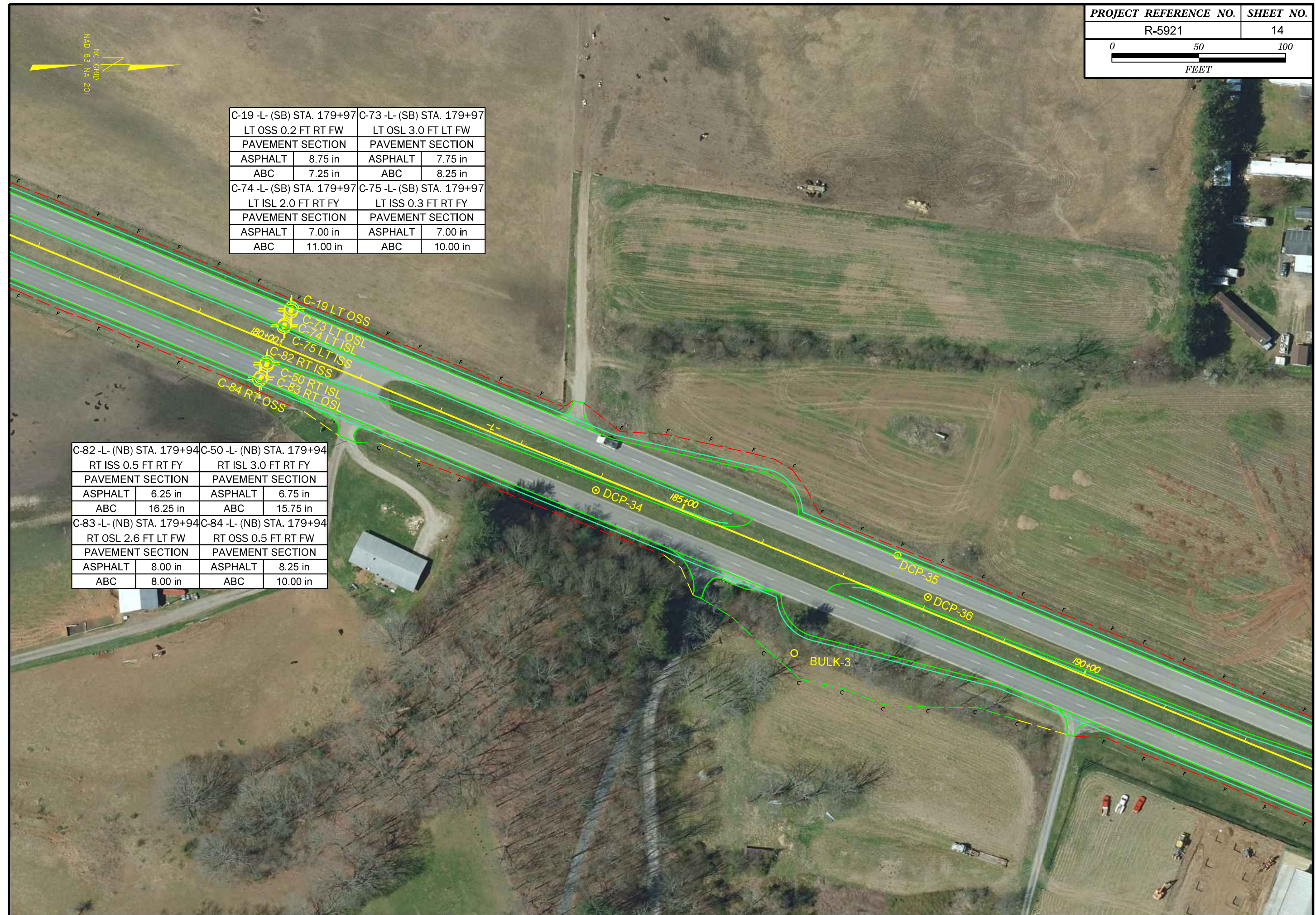
C-49 -L- (NB) STA. 162+46	
RT OSL 2.6 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.25 in
ABC	10.25 in



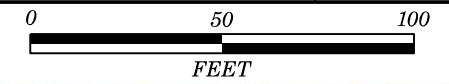


C-19 -L- (SB) STA. 179+97		C-73 -L- (SB) STA. 179+97	
LT OSS 0.2 FT RT FW		LT OSL 3.0 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	8.75 in	ASPHALT	7.75 in
ABC	7.25 in	ABC	8.25 in
C-74 -L- (SB) STA. 179+97		C-75 -L- (SB) STA. 179+97	
LT ISL 2.0 FT RT FY		LT ISS 0.3 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.00 in	ASPHALT	7.00 in
ABC	11.00 in	ABC	10.00 in

C-82 -L- (NB) STA. 179+94		C-50 -L- (NB) STA. 179+94	
RT ISS 0.5 FT RT FY		RT ISL 3.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.25 in	ASPHALT	6.75 in
ABC	16.25 in	ABC	15.75 in
C-83 -L- (NB) STA. 179+94		C-84 -L- (NB) STA. 179+94	
RT OSL 2.6 FT LT FW		RT OSS 0.5 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	8.00 in	ASPHALT	8.25 in
ABC	8.00 in	ABC	10.00 in







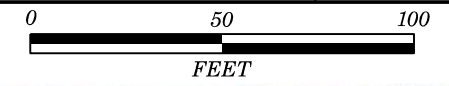
NC GRID  
NAD 83 NA 2011

C-20 -L- (SB) STA. 195+11	
LT ISL 2.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.25 in
ABC	9.75 in

C-51 -L- (NB) STA. 195+10	
RT OSL 0.3 FT RT FW	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	12.00 in







NC GRID  
NAD 83 NA 2011

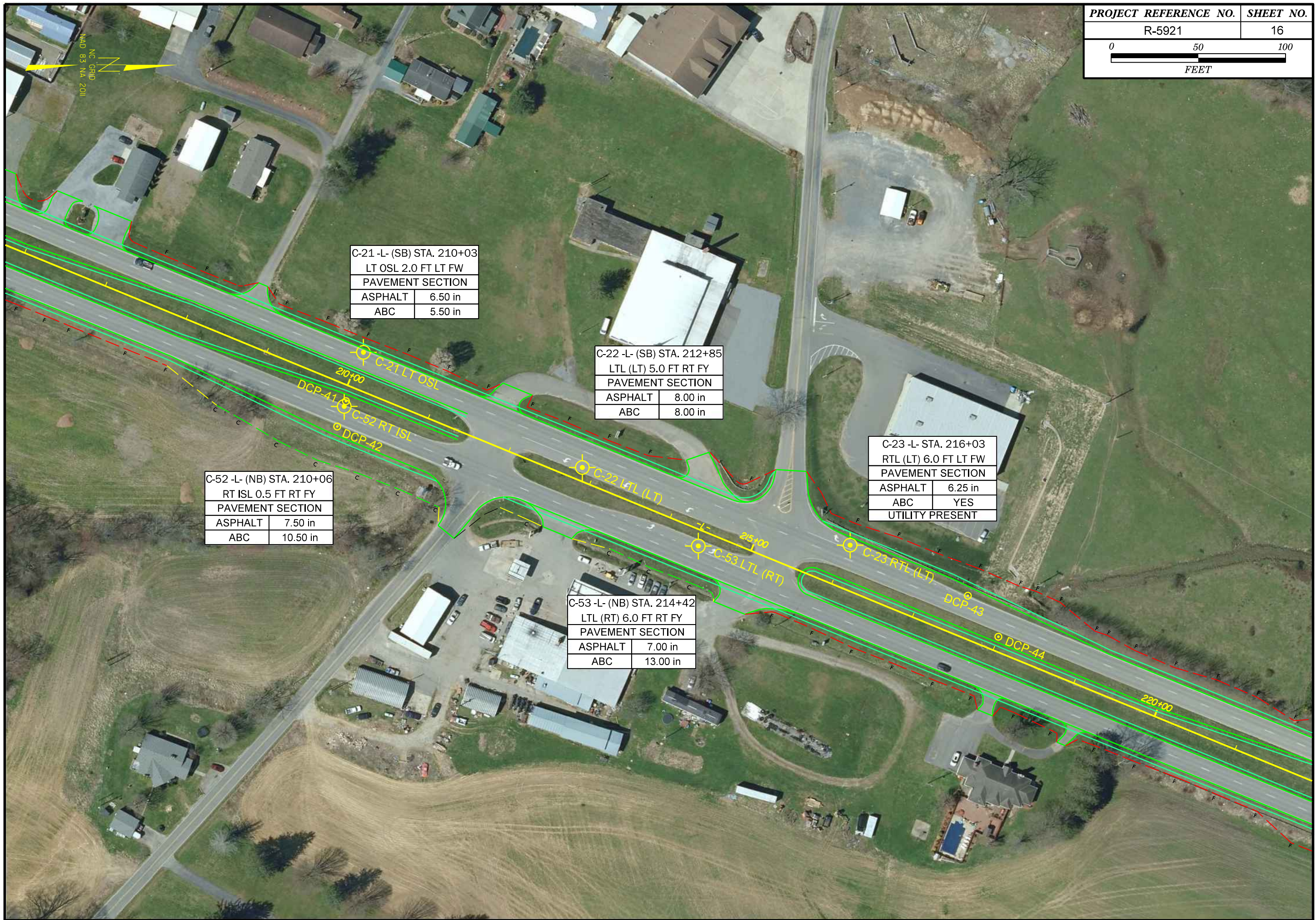
C-21 -L- (SB) STA. 210+03	
LT OSL 2.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.50 in
ABC	5.50 in

C-22 -L- (SB) STA. 212+85	
LTL (LT) 5.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.00 in
ABC	8.00 in

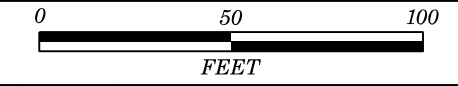
C-23 -L- STA. 216+03	
RTL (LT) 6.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.25 in
ABC	YES
UTILITY PRESENT	

C-52 -L- (NB) STA. 210+06	
RT ISL 0.5 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.50 in
ABC	10.50 in

C-53 -L- (NB) STA. 214+42	
LTL (RT) 6.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.00 in
ABC	13.00 in





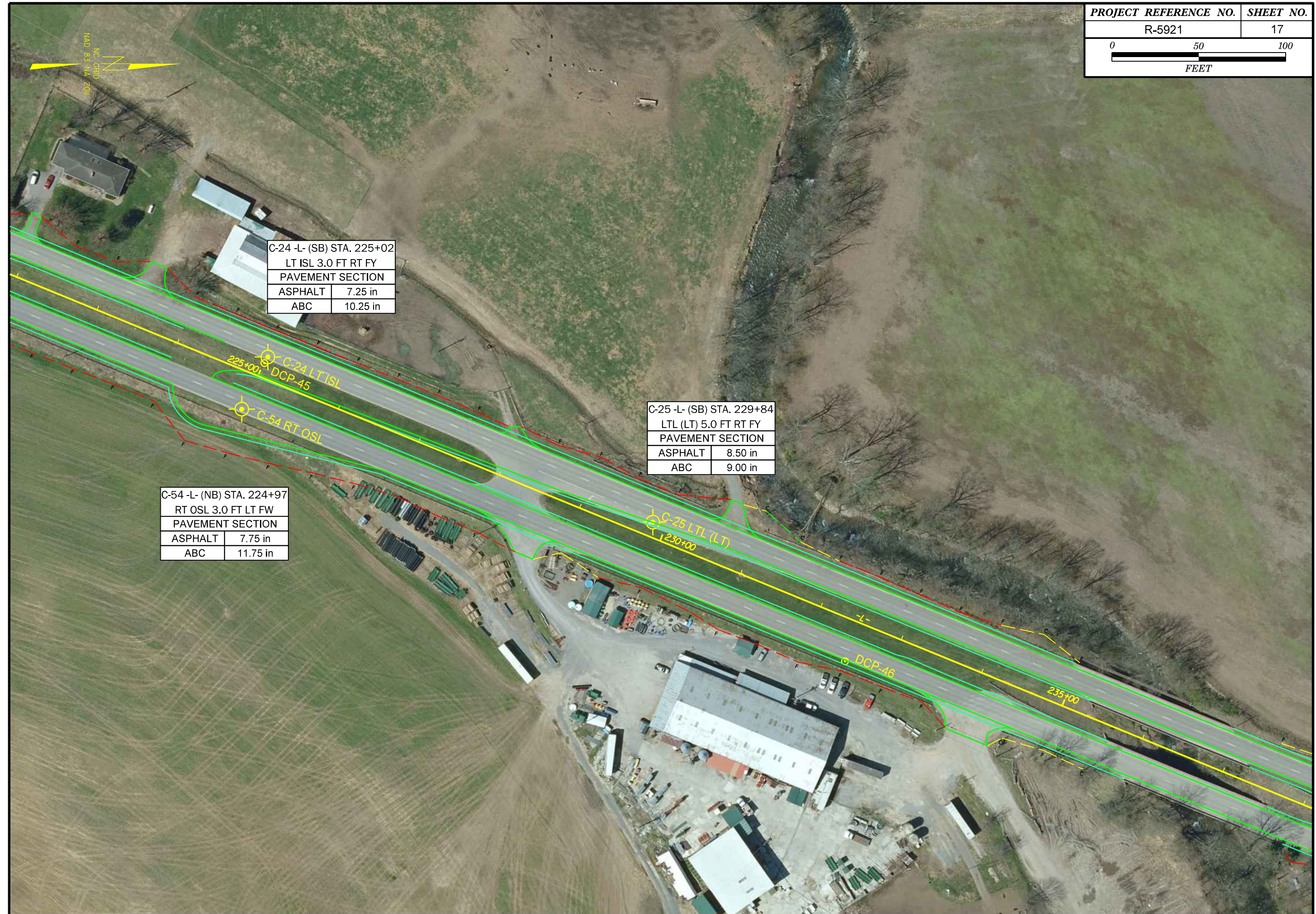


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NAD 83 N/A 2011

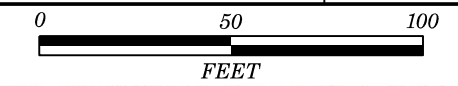
C-24 -L- (SB) STA. 225+02	
LT ISL 3.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.25 in
ABC	10.25 in

C-25 -L- (SB) STA. 229+84	
LTL (LT) 5.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.50 in
ABC	9.00 in

C-54 -L- (NB) STA. 224+97	
RT OSL 3.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.75 in
ABC	11.75 in







C-26 -L- (SB) STA. 240+20	
LT OSL 0.2 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.25 in
ABC	9.25 in

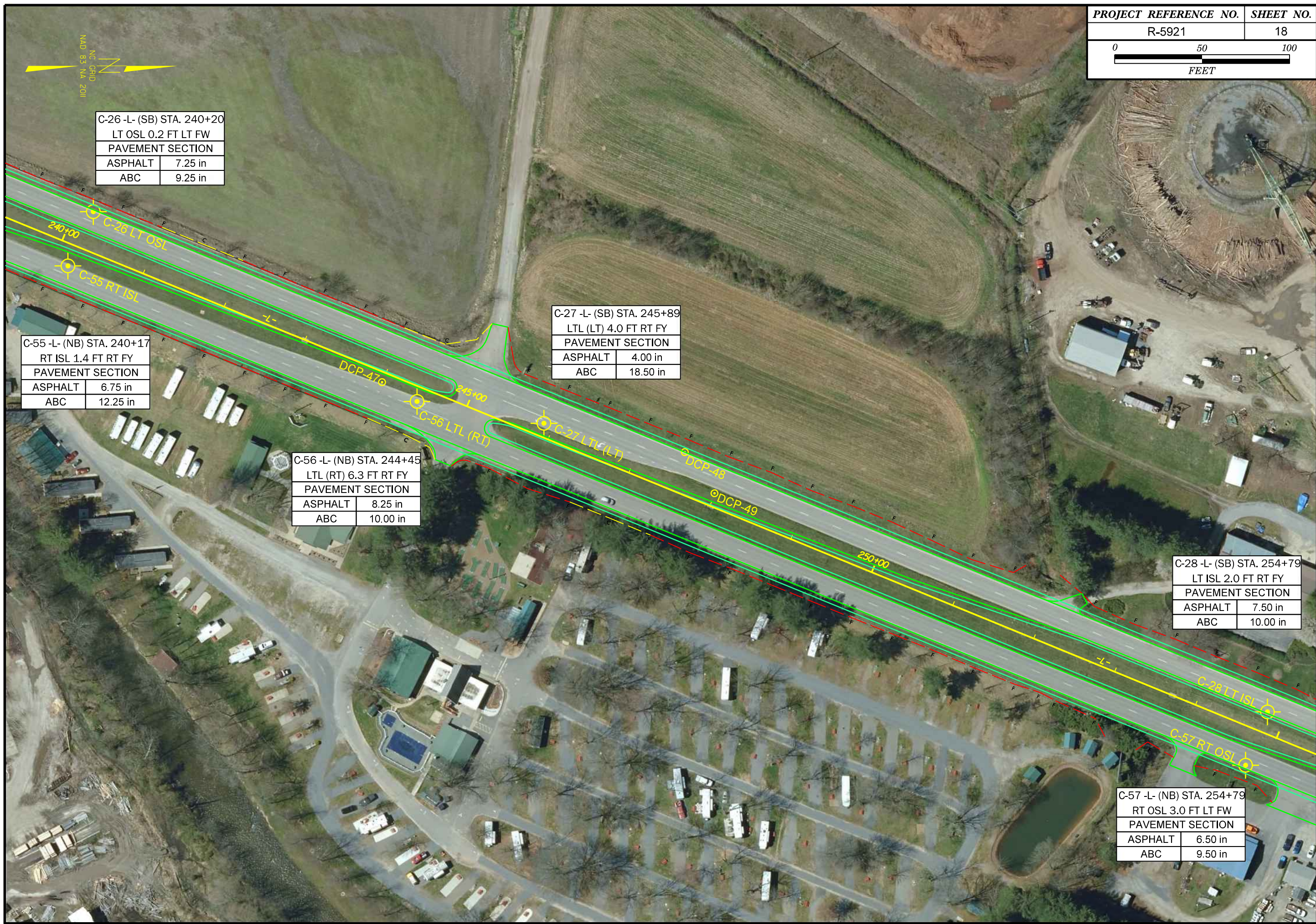
C-55 -L- (NB) STA. 240+17	
RT ISL 1.4 FT RT FY	
PAVEMENT SECTION	
ASPHALT	6.75 in
ABC	12.25 in

C-56 -L- (NB) STA. 244+45	
LTL (RT) 6.3 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.25 in
ABC	10.00 in

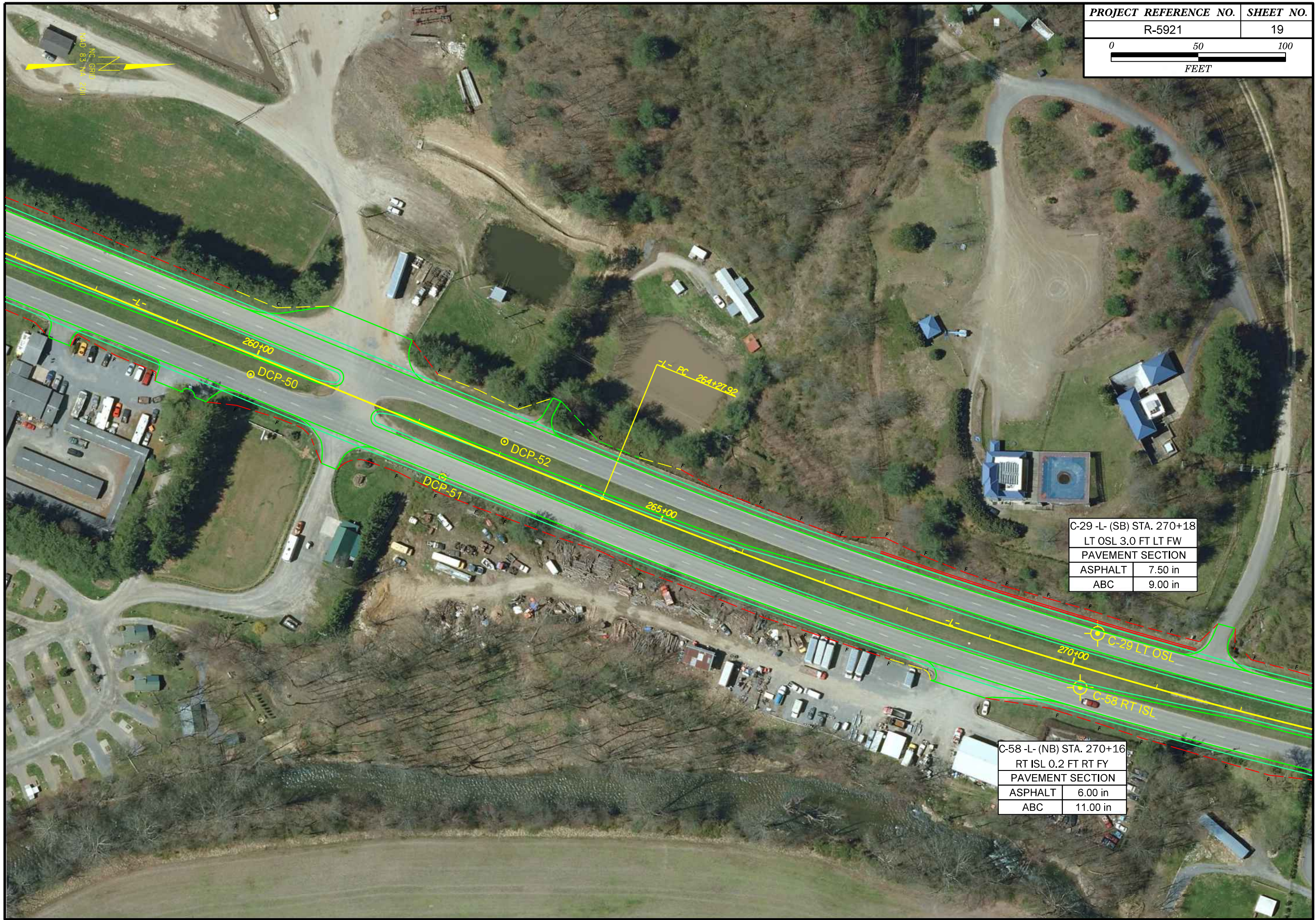
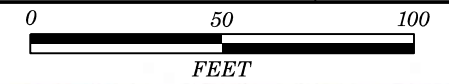
C-27 -L- (SB) STA. 245+89	
LTL (LT) 4.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	4.00 in
ABC	18.50 in

C-28 -L- (SB) STA. 254+79	
LT ISL 2.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	7.50 in
ABC	10.00 in

C-57 -L- (NB) STA. 254+79	
RT OSL 3.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.50 in
ABC	9.50 in



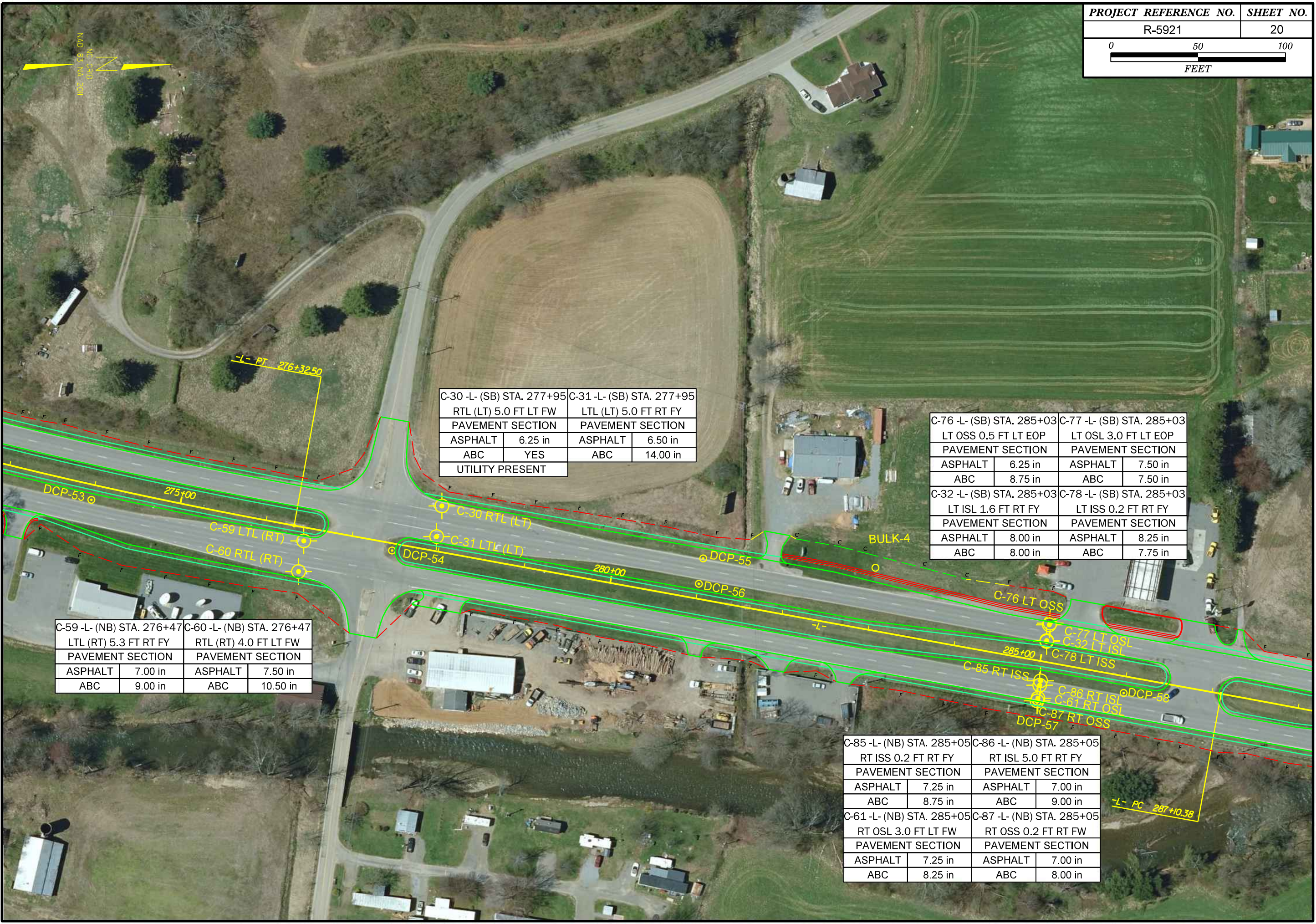




C-29 -L- (SB) STA. 270+18	
LT OS� 3.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.50 in
ABC	9.00 in

C-58 -L- (NB) STA. 270+16	
RT ISL 0.2 FT RT FY	
PAVEMENT SECTION	
ASPHALT	6.00 in
ABC	11.00 in





NAD 83 NA 2011  
NAD 83  
110.0

C-59-L-(NB) STA. 276+47		C-60-L-(NB) STA. 276+47	
LTL (RT) 5.3 FT RT FY		RTL (RT) 4.0 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.00 in	ASPHALT	7.50 in
ABC	9.00 in	ABC	10.50 in

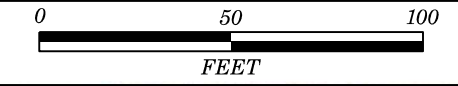
C-30-L-(SB) STA. 277+95		C-31-L-(SB) STA. 277+95	
RTL (LT) 5.0 FT LT FW		LTL (LT) 5.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.25 in	ASPHALT	6.50 in
ABC	YES	ABC	14.00 in
UTILITY PRESENT			

C-76-L-(SB) STA. 285+03		C-77-L-(SB) STA. 285+03	
LT OSS 0.5 FT LT EOP		LT OSL 3.0 FT LT EOP	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.25 in	ASPHALT	7.50 in
ABC	8.75 in	ABC	7.50 in
C-32-L-(SB) STA. 285+03		C-78-L-(SB) STA. 285+03	
LT ISL 1.6 FT RT FY		LT ISS 0.2 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	8.00 in	ASPHALT	8.25 in
ABC	8.00 in	ABC	7.75 in

C-85-L-(NB) STA. 285+05		C-86-L-(NB) STA. 285+05	
RT ISS 0.2 FT RT FY		RT ISL 5.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.25 in	ASPHALT	7.00 in
ABC	8.75 in	ABC	9.00 in
C-61-L-(NB) STA. 285+05		C-87-L-(NB) STA. 285+05	
RT OSL 3.0 FT LT FW		RT OSS 0.2 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.25 in	ASPHALT	7.00 in
ABC	8.25 in	ABC	8.00 in

-L- PC 287+10.38





NC GRID  
NAD 83 N.A. 2011

C-62 -L- (NB) STA. 291+29	
LTL (RT) 6.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	6.75 in
ABC	8.25 in





PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Subgrade					GPS Coordinates		
		Lane	Shoulder				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- (SB) Sta. 14+51 LT ISL	Fill 7.0	11.0	2.0 PS	12.0 RT FY	Cr.	16.00	7.25	8.75			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-1	A-4(0)	M	5.0	Moderate Severity Joint Crack along ISL/CTL, Low to Moderate Severity Transverse Cracking	669,670	801,604
C-2 -L- (SB) Sta. 14+51 LTL (LT)	Fill 8.0	11.0	2.0 PS	2.0 RT FY	Cr.	19.00	6.50	12.50			Asphalt ABC SG	1.6-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-1	A-4	M	5.0	Moderate Severity Joint Crack along ISL/CTL, Low to Moderate Severity Transverse Cracking	669,673	801,614
C-3 -L- (SB) Sta. 27+71 LTL (LT)	Fill 6.0	11.0	0.5 PS	4.0 RT FY	Cr.	19.00	7.75	11.25			Asphalt ABC SG	1.6-5.0: RE - Brown, Fine to Coarse Sandy, Silty CLAY	S-3	A-7-6(3)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	670,974	801,593
C-4 -L- (SB) Sta. 30+64 LT OSS	Fill 8.0	11.0	0.5 PS	0.2 RT FW	Cr.	18.50	8.50	10.00			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-71	A-4	M	5.0	Moderate to High Severity Fatigue Cracking (IS/OSWP), 1/2 inch Rutting (ISWP)	671,261	801,624
C-70 -L- (SB) Sta. 30+64 LT OSL	Fill 8.0	11.0	0.5 PS	1.6 LT FW	Cr.	18.50	9.00	9.50			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-71	A-4	M	5.0	Moderate to High Severity Fatigue Cracking (IS/OSWP), 1/2 inch Rutting (ISWP)	671,261	801,623
C-71 -L- (SB) Sta. 30+64 LT ISL	Fill 8.0	11.0		3.0 RT FY	Cr.	17.00	7.00	10.00			Asphalt ABC SG	1.4-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-71	A-4(0)	M	5.0	Low to Moderate Severity Transverse Cracking	671,258	801,643
C-72 -L- (SB) Sta. 30+64 LT ISS	Fill 8.0	11.0		0.2 RT FY	Cr.	17.00	7.00	10.00			Asphalt ABC SG	1.4-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-71	A-4	M	5.0	Low to Moderate Severity Transverse Cracking	671,257	801,646
C-5 -L- (SB) Sta. 42+24 LT ISL	Fill 5.0	11.0		0.2 RT FY	S	16.00	8.25	7.75			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-5	A-4(0)	M	5.0	Low Severity Transverse Cracking	672,411	801,637
C-6 -L- (SB) Sta. 59+19 LT OSL	Fill 6.0	11.0	0.5 PS	0.6 LT FW	S	17.50	7.50	10.00			Asphalt ABC SG	1.5-5.0: RE - Orange-Brown, Fine Sandy, Silty CLAY, with trace gravel	S-6	A-7-5(8)	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking, Sawcut Patch (ISL) (~18' L x 11' W)	674,059	802,028
C-7 -L- (SB) Sta. 75+11 LT ISL	Fill 8.0	11.0		1.0 RT FY	Cr.	17.00	8.00	9.00			Asphalt ABC SG	1.4-5.0: RE - Orange-Brown, Fine to Coarse Sandy SILT, with trace mica	S-7	A-4(0)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	675,367	802,872
C-8 -L- (SB) Sta. 89+64 LT OSL	Fill 5.0	11.0	0.5 PS	0.2 LT FW	S	17.00	7.75	9.25			Asphalt ABC SG	1.4-5.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica	S-8	A-2-4	M	5.0	Low Severity Transverse Cracking	676,804	803,083
C-9 -L- (SB) Sta. 103+04 LT ISL	Fill 5.0	11.0		15.0 RT FY	Cr.	17.00	7.75	9.25			Asphalt ABC SG	1.4-4.0: RE - Brown, Silty Fine to Coarse SAND, with trace gravel	Ref-8	A-2-4	M	4.0 AR	Low to Moderate Severity Transverse and Longitudinal Cracking	677,973	803,746
C-10 -L- (SB) Sta. 103+04 LTL (LT)	Fill 5.0	11.0		4.5 RT FY	Cr.	18.50	9.00	9.50			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy CLAY	S-10	A-6(3)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	677,967	803,755
C-11 -L- (SB) Sta. 118+06 LT OSL	Fill 7.0	11.0		0.6 LT FW	Cr.	16.50	6.75	9.75			Asphalt ABC SG	1.4-5.0: RE - Brown, Fine to Coarse Sandy, Silty CLAY, MP	Ref-12	A-7-6	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	679,333	804,320
C-12 -L- (SB) Sta. 118+06 LTL (LT)	Fill 7.0	11.0		5.0 RT FY	Cr.	17.00	7.25	9.75			Asphalt ABC SG	1.4-3.0: RE - Brown, Fine to Coarse Sandy, Silty CLAY, MP 3.0-5.0: RE - Boulder Fill	S-12	A-7-6(4)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	679,328	804,349

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		(ft)	(in)	Thickness (in)					Subgrade					GPS Coordinates			
		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
C-13 -L (SB) Sta. 135+54 RTL (LT)	Fill 5.0	11.0		5.0 LT FW	Cr.	17.00	7.00	10.00			Asphalt ABC SG	1.4-5.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica	S-13	A-2-4	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	681,036	804,038
C-14 -L (SB) Sta. 135+54 LT ISL	Fill 5.0	11.0		2.0 RT FY	Cr.	17.00	8.00	9.00			Asphalt ABC SG	1.4-5.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica	Ref-13	A-2-4	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	681,039	804,063
C-15 -L (SB) Sta. 150+00 LT OSL	Fill 5.0	11.0	0.5 PS	3.3 LT FW	Cr.	15.00	7.50	7.50			Asphalt ABC SG	1.3-4.5: RE - Brown, Silty Fine to Coarse SAND	S-15	A-2-4	M	4.5 AR	Low Severity Transverse Cracking	682,489	804,022
C-16 -L (SB) Sta. 159+00 LTL (LT)	Fill 6.0	11.0		5.0 RT FY	Cr.	19.00	6.50	12.50			Asphalt ABC SG	1.6-5.0: RE - Brown, Fine to Coarse SAND, with trace gravel	S-16	A-1-b	M	5.0	Moderate to High Severity Joint Cracking along ISL/CTL, Moderate to High Severity Transverse Cracking	683,372	804,214
C-17 -L (SB) Sta. 163+96 RTL (LT)	Fill 6.0	10.0		5.0 LT FW	Cr.	15.50	7.25	8.25			Asphalt ABC SG	1.3-5.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica and gravel	Ref-18	A-2-4	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	683,857	804,334
C-18 -L (SB) Sta. 163+96 LT ISL	Fill 5.0	11.0		0.5 RT FY	Cr.	17.00	7.00	10.00			Asphalt ABC SG	1.4-4.5: RE - Brown, Silty Fine to Coarse SAND, with trace mica and gravel	S-18	A-2-4	M	4.5 AR	Moderate Severity Joint Crack along ISL/OSL, Low to Moderate Severity Transverse Cracking	683,848	804,359
C-19 -L (SB) Sta. 179+97 LT OSS	Fill 5.0	11.0	0.5 PS	0.2 RT FW	Cr.	16.00	8.75	7.25			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-74	A-4	M	5.0	Low to Moderate Severity Fatigue Cracking (OSWP), 1/2 inch Rutting (OSWP)	685,340	804,942
C-73 -L (SB) Sta. 179+97 LT OSL	Fill 5.0	11.0	0.5 PS	3.0 LT FW	Cr.	16.00	7.75	8.25			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-74	A-4	M	5.0	Low to Moderate Severity Fatigue Cracking (OSWP), 1/2 inch Rutting (OSWP) <b>Full-Depth Crack in Core</b>	685,339	804,945
C-74 -L (SB) Sta. 179+97 LT ISL	Fill 3.0	11.0		2.0 RT FY	Cr.	18.00	7.00	11.00			Asphalt ABC SG	1.5-3.0: RE - Brown, Fine to Coarse Sandy SILT 3.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-75 S-74	A-4 A-4(0)	M M	5.0	Low to Moderate Severity Transverse Cracking	685,332	804,961
C-75 -L (SB) Sta. 179+97 LT ISS	Fill 3.0	11.0		0.3 RT FY	Cr.	17.00	7.00	10.00			Asphalt ABC SG	1.4-3.0: RE - Brown, Fine to Coarse Sandy SILT 3.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-75 Ref-74	A-4(0) A-4	M M	5.0	Low to Moderate Severity Transverse Cracking	685,331	804,963
C-20 -L (SB) Sta. 195+11 LT ISL	Fill 5.0	11.0		2.0 RT FY	Cr.	18.00	8.25	9.75			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine Sandy, Silty CLAY, MP, with trace mica	S-20	A-7-5(8)	M	5.0	Low to Moderate Severity Transverse Cracking	686,733	805,536
C-21 -L (SB) Sta. 210+03 LT OSL	Fill 5.0	11.0	0.5 PS	2.0 LT FW	Cr.	12.00	6.50	5.50			Asphalt ABC SG	1.0-5.0: RE - Black, Silty Fine to Coarse SAND, with trace organics, organic odor	S-21	A-2-4	M	5.0	Low to Moderate Severity Fatigue Cracking (OSWP), Low to Moderate Severity Transverse Cracking 3/4 inch Rutting (OSWP) <b>Core Highly Degraded</b>	688,120	806,085
C-22 -L (SB) Sta. 212+85 LTL (LT)	Fill 5.0	11.0		5.0 RT FY	Cr.	16.00	8.00	8.00			Asphalt ABC SG	1.3-5.0: RE - Gray, Fine to Coarse Sandy SILT, organic odor	S-22	A-4(0)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	688,371	806,217
C-23 -L (SB) Sta. 216+03 RTL (LT)	Fill 6.0	11.0		6.0 LT FW	Cr.		6.25	Yes			Asphalt ABC	Utility Conflict, No Auger/DCP performed					Low to Moderate Severity Transverse and Longitudinal Cracking	688,678	806,306
C-24 -L (SB) Sta. 225+02 LT ISL	Fill 6.0	11.0		3.0 RT FY	Cr.	17.50	7.25	10.25			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-24	A-4(0)	M	5.0	Low to Moderate Severity Transverse Cracking, Low to Moderate Severity Fatigue Cracking (LT OSL OSWP)	689,501	806,670

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Subgrade					GPS Coordinates		
		Lane	Shoulder				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-25 -L (SB) Sta. 229+84 LTL (LT)	Fill 7.0	11.0		5.0 RT FY	Cr.	17.50	8.50	9.00			Asphalt ABC SG	1.5-5.0: RE - Brown, Silty Fine to Coarse SAND, with trace gravel	S-25	A-2-4	M	5.0	Low to Moderate Severity Transverse Cracking	689,944	806,860
C-26 -L (SB) Sta. 240+20 LT OSL	Fill 8.0	11.0	0.5 PS	0.2 LT FW	Cr.	16.50	7.25	9.25			Asphalt ABC SG	1.4-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-26	A-4(0)	M	5.0	Low Severity Fatigue Cracking (OSWP)	690,913	807,228
C-27 -L (SB) Sta. 245+89 LTL (LT)	Fill 5.0	11.0		4.0 RT FY	Cr.	22.50	4.00	18.50			Asphalt ABC SG	1.9-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace gravel and mica	S-27	A-4(0)	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking	691,428	807,470
C-28 -L (SB) Sta. 254+79 LT ISL	Fill 5.0	11.0		2.0 RT FY	Cr.	17.50	7.50	10.00			Asphalt ABC SG	1.5-5.0: RE - Brown-Orange, Fine to Coarse Sandy SILT	S-28	A-4(0)	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking	692,255	807,800
C-29 -L (SB) Sta. 270+18 LT OSL	Fill 5.0	11.0	0.5 PS	3.0 LT FW	Cr.	16.50	7.50	9.00			Asphalt ABC SG	1.4-5.0: RE - Brown-Orange, Fine to Coarse Sandy SILT, with trace mica and gravel	S-29	A-4(0)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	693,692	808,337
C-30 -L (SB) Sta. 277+95 RTL (LT)	Fill 3.0	11.0		5.0 LT FW	Cr.		6.25	Yes			Asphalt ABC	Utility Conflict, No Auger/DCP performed					Moderate to High Severity Transverse and Longitudinal Cracking	694,447	808,497
C-31 -L (SB) Sta. 277+95 LTL (LT)	Fill 5.0	11.0		5.0 RT FY	Cr.	20.50	6.50	14.00			Asphalt ABC SG	1.7-5.0: RE - Orange-Brown, Silty CLAY, MP	S-31	A-7-6(7)	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking	694,441	808,532
C-76 -L (SB) Sta. 285+03 LT OSS	Fill 5.0	11.0	Gravel Shoulder	0.5 LT EOP	Cr.	15.00	6.25	8.75			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy CLAY, with trace mica and gravel	Ref-77	A-6(12)	M	5.0	High Severity Transverse and Longitudinal Cracking and Ravelling Large Pothole along OSS at EOP (10' L x 8' W x 0.6' D), High Distress Area	695,143	808,631
C-77 -L (SB) Sta. 285+03 LT OSL	Fill 5.0	11.0	Gravel Shoulder	3.0 LT EOP	Cr.	15.00	7.50	7.50			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy CLAY, with trace mica and gravel	S-77	A-6(12)	M	5.0	High Severity Transverse and Longitudinal Cracking and Ravelling Large Pothole along OSS at EOP (10' L x 8' W x 0.6' D), High Distress Area <b>4-inch Bottom Up Crack in Core</b>	695,142	808,633
C-32 -L (SB) Sta. 285+03 LT ISL	Fill 5.0	11.0		1.6 RT FY	Cr.	16.00	8.00	8.00			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-78	A-4	M	5.0	Low to Moderate Severity Transverse Cracking	695,139	808,651
C-78 -L (SB) Sta. 285+03 LT ISS	Fill 5.0	11.0		0.2 RT FY	Cr.	16.00	8.25	7.75			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-78	A-4(0)	M	5.0	Low to Moderate Severity Transverse Cracking	695,139	808,652
C-33A -L (NB) Sta. 14+53 RT OSL	Fill 5.0	16.0		2.5 LT FW	Cr.	19.00	9.25	9.75			Asphalt ABC SG	1.6-5.0: RE - Gray-Brown, Silty Fine to Coarse SAND, with trace gravel and organics	S-33A	A-2-4	M	5.0	Low to Moderate Fatigue Cracking (IS/OSWP), Outer 2.5' of Lane Highly Distressed	669,692	801,674
C-33 -L (NB) Sta. 14+53 RT OSL	Fill 5.0	16.0		1.3 LT FW	Cr.	19.00	5.00	14.00			Asphalt ABC SG	1.6-5.0: RE - Gray-Brown, Silty Fine to Coarse SAND, with trace gravel and organics	Ref-33A	A-2-4	M	5.0	Low to Moderate Fatigue Cracking (IS/OSWP), Outer 2.5' of Lane Highly Distressed	669,691	801,673
C-34 -L (NB) Sta. 26+00 LTL (RT)	Fill 5.0	12.0	1.0 PS	5.0 RT FY	Cr.	17.00	7.00	10.00			Asphalt ABC SG	1.4-3.0: RE - Brown, Silty CLAY 3.0-5.0: RE - Brown-Gray, Fine to Coarse Sandy SILT	S-34 Ref-37	A-7-6(12) A-4	M M	5.0	Moderate to High Severity Transverse Cracking, Potholes Nearly 1.0' L x 0.5' W x 0.3' D	670,802	801,576
C-79 -L (NB) Sta. 30+60 RT ISS	Fill 5.0	12.0		0.2 RT FY	S	15.75	5.25	10.50			Asphalt ABC SG	1.3-3.0: RE - Brown, Fine to Coarse Sandy CLAY 3.0-5.0: RE - Brown-Gray, Fine to Coarse Sandy SILT	S-79 Ref-37	A-6(2) A-4	M M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking Potholes Due to Broken Reflector Along Centerline (1' L x 0.5' W x 0.3' D)	671,249	801,691

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Pavement Layering	Subgrade					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder				Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete		Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)		Northing	Easting
C-35 -L (NB) Sta. 30+60 RT ISL	Fill 4.0	12.0		2.8 RT FY	S	21.75	5.25	16.50			Asphalt ABC SG	1.8-4.0: RE - Brown, Fine to Coarse Sandy CLAY 4.0-5.0: RE - Brown-Gray, Fine to Coarse Sandy SILT	Ref-79 Ref-37	A-6 A-4	M M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking Potholes Due to Broken Reflector Along Centerline (1' L x 0.5' W x 0.3' D)	671,248	801,693	
C-80 -L (NB) Sta. 30+60 RT OSL	Fill 5.0	11.0	1.0 PS	2.0 LT FW	S	18.00	7.00	11.00			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy CLAY	Ref-81	A-6	M	5.0	Moderate to High Severity Transverse Cracking, Moderate to High Severity Joint Crack along Centerline	671,245	801,711	
C-81 -L (NB) Sta. 30+60 RT OSS	Fill 5.0	11.0	1.0 PS	0.5 RT FW	S	18.00	7.00	11.00			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy CLAY	S-81	A-6(2)	M	5.0	Moderate to High Severity Transverse Cracking, Moderate to High Severity Joint Crack along Centerline	671,244	801,713	
C-36 -L (NB) Sta. 42+23 LTL (RT)	Fill 5.0	16.0	1.0 PS	7.0 RT FY	Cr.	16.00	6.25	9.75			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT	S-36	A-4(0)	M	5.0	Low to Moderate Severity Longitudinal Cracking	672,412	801,674	
C-37 -L (NB) Sta. 42+23 RT OSL	Fill 5.0	12.0	0.5 PS	0.3 LT FW	Cr.	17.00	7.25	9.75			Asphalt ABC SG	1.4-3.0: RE - Brown, Fine to Coarse Sandy SILT 3.0-5.0: RE - Brown-Gray, Fine to Coarse Sandy SILT	Ref-36 S-37	A-4 A-4(0)	M M	5.0	Low to Moderate Severity Longitudinal Cracking	672,413	801,705	
C-38 -L (NB) Sta. 59+19 LTL (RT)	Fill 5.0	10.0		6.0 RT FY	Cr.	17.50	6.50	11.00			Asphalt ABC SG	1.5-5.0: RE - Brown, Silty CLAY, MP, with trace mica	Ref-39	A-7-6	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking, Moderate to High Severity Ravelling RT LN (ISWP)	674,025	802,079	
C-39 -L (NB) Sta. 59+19 RT ISL	Fill 5.0	11.0		5.0 RT FW	Cr.	18.00	6.75	11.25			Asphalt ABC SG	1.5-5.0: RE - Brown, Silty CLAY, MP, with trace mica	S-39	A-7-6(9)	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking, Moderate to High Severity Ravelling RT LN (ISWP)	674,019	802,089	
C-40 -L (NB) Sta. 75+14 RT OSL	Fill 5.0	11.0		3.0 LT FW	Cr.	18.00	5.75	12.25			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine Sandy SILT, with trace mica	S-40	A-4(0)	M	5.0	Low to Moderate Severity Fatigue Cracking (OSWP), Moderate to High Severity Joint Crack along Centerline	675,364	802,938	
C-41 -L (NB) Sta. 89+63 RT ISL	Fill 5.0	11.0		0.6 RT FY	Cr.	19.00	7.75	11.25			Asphalt ABC SG	1.6-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-41	A-4(0)	M	5.0	Moderate Severity Transverse Cracking (ISL), Moderate to High Severity Block Cracking (OSL)	676,775	803,144	
C-42 -L (NB) Sta. 103+01 RT OSL	Fill 5.0	11.0		2.0 LT FW	Cr.	19.00	6.50	12.50			Asphalt ABC SG	1.6-5.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica	S-42	A-2-4	M	5.0	Low to Moderate Severity Transverse Cracking, Moderate to High Fatigue Cracking (IS/OSWP) <b>Full-Depth Crack in Core</b>	677,938	803,803	
C-43 -L (NB) Sta. 118+06 RT ISL	Fill 8.0	11.0		3.0 RT FY	Cr.	17.00	7.25	9.75			Asphalt ABC SG	1.4-5.0: RE - Red-Brown, Fine to Coarse Sandy SILT	S-43	A-4(0)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking (IS/OSWP) LT and RT Lanes	679,321	804,389	
C-44 -L (NB) Sta. 133+92 LTL (RT)	Fill 5.0	10.0		5.0 RT FY	Cr.	18.00	7.00	11.00			Asphalt ABC SG	1.5-5.0: RE - Red-Brown, Fine to Coarse Sandy SILT	S-44	A-4(0)	M	5.0	Low to Moderate Severity Transverse Cracking, Low Severity Longitudinal Cracking	680,887	804,130	
C-45 -L (NB) Sta. 133+92 RT OSL	Fill 5.0	11.0	2.0 PS	3.5 LT FW	Cr.	18.00	6.75	11.25			Asphalt ABC SG	1.5-5.0: RE - Orange-Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-44	A-4	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking, Moderate to High Severity Fatigue Cracking (IS/OSWP) <b>4' Top-Down Crack in Core</b>	680,890	804,154	
C-46 -L (NB) Sta. 149+97 RT ISL	Fill 5.0	11.0		1.0 RT FY	Cr.	20.50	6.75	13.75			Asphalt ABC SG	1.7-4.0: RE - Orange-Brown, Silty CLAY 4.0-5.0: RE - Black, Fine to Coarse Sandy SILT, organic odor	S-46 Ref-44	A-7-5(6) A-4	M M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	682,480	804,086	
C-47 -L (NB) Sta. 157+91 LTL (RT)	Fill 5.0	11.0		7.0 RT FY	Cr.	20.00	6.50	13.50			Asphalt ABC SG	1.7-5.0: RE - Orange-Brown, Silty CLAY, MP, with trace mica, organic staining at ~4-4.5'	S-47	A-7-5(6)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking, Low to Moderate Severity Fatigue Cracking (RT LN OSWP)	683,258	804,219	

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Pavement Layering	Subgrade					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder				Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete		Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)		Northing	Easting
C-48 -L (NB) Sta. 162+46 LTL (RT)	Fill 5.0	10.0	1.0 PS	6.0 RT FY	Cr.	18.00	7.25	10.75			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel, organic staining at ~1.6-3.0'	Ref-50	A-4	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking, Low to Moderate Severity Fatigue Cracking RT LN (OSWP)	683,693	804,346	
C-49 -L (NB) Sta. 162+46 RT OSL	Fill 5.0	11.0		2.6 LT FW	Cr.	17.50	7.25	10.25			Asphalt ABC SG	1.5-5.0: RE - Brown, Gravelly Fine to Coarse SAND	S-49	A-1-b	M	5.0	Low to Moderate Severity Transverse Cracking, Low to Moderate Severity Fatigue Cracking (IS/OSWP) <b>Full-Depth Top-Down Crack in Core</b>	683,685	804,370	
C-82 -L (NB) Sta. 179+94 RT ISS	Fill 5.0	11.0		0.5 RT FY	Cr.	22.50	6.25	16.25			Asphalt ABC SG	1.9-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-50	A-4	M	5.0	Low to Moderate Severity Transverse Cracking, Low to Moderate Severity Fatigue Cracking RT LN	685,312	805,004	
C-50 -L (NB) Sta. 179+94 RT ISL	Fill 5.0	11.0		3.0 RT FY	Cr.	22.50	6.75	15.75			Asphalt ABC SG	1.9-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	S-50	A-4(0)	M	5.0	Low to Moderate Severity Transverse Cracking, Low to Moderate Severity Fatigue Cracking RT LN	685,311	805,007	
C-83 -L (NB) Sta. 179+94 RT OSL	Fill 5.0	11.0	1.0 PS	2.6 LT FW	Cr.	16.00	8.00	8.00			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-50	A-4	M	5.0	Low to Moderate Severity Transverse Cracking, Low to Moderate Severity Fatigue Cracking RT LN	685,305	805,021	
C-84 -L (NB) Sta. 179+94 RT OSS	Fill 5.0	11.0	1.0 PS	0.5 RT FW	Cr.	18.25	8.25	10.00			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-50	A-4	M	5.0	Low to Moderate Severity Transverse Cracking, Low to Moderate Severity Fatigue Cracking RT LN	685,303	805,024	
C-51 -L (NB) Sta. 195+10 RT OSL	Fill 5.0	11.0	1.5 PS	0.3 RT FW	Cr.	19.00	7.00	12.00			Asphalt ABC SG	1.6-5.0: RE - Brown-Orange, Silty CLAY, MP	S-51	A-7-5(6)	M	5.0	Moderate to High Severity Joint Crack along Centerline, Low to Moderate Severity Fatigue Cracking	686,706	805,599	
C-52 -L (NB) Sta. 210+06 RT ISL	Fill 5.0	11.0		0.5 RT FY	Cr.	18.00	7.50	10.50			Asphalt ABC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	S-52	A-4(0)	M	5.0	Low to Moderate Severity Transverse Cracking, Low to Moderate Severity Fatigue Cracking LT LN	688,098	806,147	
C-53 -L (NB) Sta. 214+42 LTL (RT)	Fill 5.0	11.0		6.0 RT FY	Cr.	20.00	7.00	13.00			Asphalt ABC SG	1.7-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-54	A-4	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	688,504	806,307	
C-54 -L (NB) Sta. 224+97 RT OSL	Fill 5.0	11.0	1.0 PS	3.0 LT FW	Cr.	19.50	7.75	11.75			Asphalt ABC SG	1.6-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-54	A-4(0)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	689,471	806,730	
C-55 -L (NB) Sta. 240+17 RT ISL	Fill 5.0	11.0		1.4 RT FY	Cr.	19.00	6.75	12.25			Asphalt ABC SG	1.6-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	S-55	A-4(0)	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	690,884	807,290	
C-56 -L (NB) Sta. 244+45 LTL (RT)	Fill 7.0	10.0		6.3 RT FY	Cr.	18.25	8.25	10.00			Asphalt ABC SG	1.5-5.0: RE - Brown-Gray, Fine to Coarse Sandy SILT, with trace gravel	Ref-37	A-4	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking	691,283	807,445	
C-57 -L (NB) Sta. 254+79 RT OSL	Fill 5.0	11.0	1.0 PS	3.0 LT FW	Cr.	16.00	6.50	9.50			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-55	A-4	M	5.0	Low to Moderate Severity Fatigue Cracking (OSWP), Moderate to High Severity Transverse Cracking	692,230	807,861	
C-58 -L (NB) Sta. 270+16 RT ISL	Fill 5.0	11.0		0.2 RT FY	Cr.	17.00	6.00	11.00			Asphalt ABC SG	1.4-5.0: RE - Brown-Orange, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-29	A-4	M	5.0	Low to Moderate Severity Transverse and Longitudinal Cracking <b>Cored on Crack, Little Core Recovery</b>	693,672	808,399	
C-59 -L (NB) Sta. 276+47 LTL (RT)	Fill 5.0	11.0	1.0 PS	5.3 RT FY	Cr.	16.00	7.00	9.00			Asphalt ABC SG	1.3-5.0: RE - Dark Brown-Red, Fine to Coarse Sandy SILT, with a petroleum odor	S-59	A-4(0)	M	5.0	Moderate to High Severity Transverse Cracking (LTL/LT LN), Moderate to High Severity Transverse and Longitudinal Cracking (RT LN/RTL)	694,289	808,537	

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Subgrade					GPS Coordinates		
		Lane	Shoulder				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-60 -L (NB) Sta. 276+47 RTL (RT)	Fill 5.0	11.0		4.0 LT FW	Cr.	18.00	7.50	10.50			Asphalt ABC SG	1.5-5.0: RE - Orange, Fine to Coarse Sandy SILT	S-60	A-4(0)	M	5.0	Moderate to High Severity Transverse Cracking (LTL/LT LN), Moderate to High Severity Transverse and Longitudinal Cracking (RT LN/RTL)	694.283	808.572
C-85 -L (NB) Sta. 285+05 RT ISS	Fill 8.0	11.0		0.2 RT FY	Cr.	16.00	7.25	8.75			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-86	A-4	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking	695.132	808.697
C-86 -L (NB) Sta. 285+05 RT ISL	Fill 8.0	11.0		5.0 RT FY	Cr.	16.00	7.00	9.00			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	S-86	A-4(0)	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking	695.131	808.702
C-61 -L (NB) Sta. 285+05 RT OSL	Fill 8.0	11.0	0.5 PS	3.0 LT FW	Cr.	15.50	7.25	8.25			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel, boulders within RE	Ref-86	A-4	M	5.0	Moderate to High Severity Fatigue Cracking (IS/OSWP), Moderate to High Severity Transverse Cracking	695.129	808.717
C-87 -L (NB) Sta. 285+05 RT OSS	Fill 8.0	11.0	0.5 PS	0.2 RT FW	Cr.	15.00	7.00	8.00			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace gravel, boulders within RE	Ref-86	A-4	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking	695.128	808.720
C-62 -L (NB) Sta. 291+29 LTL (RT)	Fill 5.0	11.0	Concrete Median	6.0 RT FY	Cr.	15.00	6.75	8.25			Asphalt ABC SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-86	A-4	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking, High Severity Fatigue Cracking RT LN (IS/OSWP) <b>Full-Depth Crack in Core</b>	695.747	808.803
C-63 -Y- Sta. 11+95 CTL	Fill 3.0	11.0		6.0 RT FY	Cr.	17.00	4.50	12.50			Asphalt ABC SG	1.4-5.0: RE - Tan-Yellow, Fine to Coarse Sandy SILT, with trace mica	Ref-64	A-4	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking	669.151	801.262
C-64 -Y- Sta. 11+95 RT ISL	Fill 5.0	11.0		6.0 RT FY	Cr.	16.50	4.25	12.25			Asphalt ABC SG	1.4-5.0: RE - Tan-Yellow, Fine to Coarse Sandy SILT, with trace mica	S-64	A-4(0)	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking, Moderate to High Severity Fatigue Cracking (ISWP)	669.138	801.262
C-65 -Y- Sta. 11+95 RT OSL	Fill 5.0	11.0	2.5 Concrete Curb & Gutter	2.5 LT EOP	Cr.	17.00	6.00	11.00			Asphalt ABC SG	1.4-5.0: RE - Tan-Yellow, Fine to Coarse Sandy SILT, with trace mica	Ref-64	A-4	M	5.0	Moderate to High Severity Transverse and Longitudinal Cracking	669.125	801.262
C-66 -Y- Sta. 20+84 LT RAMP	Fill 3.0	16.0	2.5 Concrete Curb & Gutter	10.0 LT EOP	Cr.	20.00	6.00	14.00			Asphalt ABC SG	1.7-2.5: RE - Gray, Silty Fine to Coarse Sand, with an organic odor Auger not extended to full depth due utility nearby	Ref-68	A-2-4	M	2.5	Moderate to High Severity Transverse and Longitudinal Cracking, Moderate to High Severity Fatigue Cracking (ISWP)	669.246	802.134
C-67 -Y- Sta. 20+84 LT GORE	Fill 5.0	11.0		6.0 RT FW	Cr.	16.50	5.50	11.00			Asphalt ABC SG	1.4-2.5: RE - Gray, Silty Fine to Coarse SAND, with trace mica Auger not extended to full depth due utility nearby	Ref-68	A-2-4	M	2.5	Moderate to High Severity Transverse and Longitudinal Cracking	669.234	802.134
C-68 -Y- Sta. 20+84 LT OSL	Fill 5.0	11.0		6.0 LT FW	Cr.	22.00	7.50	14.50			Asphalt ABC SG	1.8-3.0: RE - Gray, Silty Fine to Coarse SAND, with an organic odor Auger not extended to full depth due utility nearby	S-68	A-2-4	M	3.0	Moderate to High Severity Transverse and Longitudinal Cracking	669.222	802.134
C-69 -Y- Sta. 20+84 LT ISL	Fill 5.0	11.0		5.0 RT FY	Cr.	20.00	5.00	15.00			Asphalt ABC SG	1.7-3.0: RE - Gray, Silty Fine to Coarse SAND, with an organic odor Auger not extended to full depth due utility nearby	Ref-68	A-2-4	M	3.0	Moderate to High Severity Transverse and Longitudinal Cracking	669.210	802.134

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB



PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		(ft)	(in)	Thickness (in)					Pavement Layering	Subgrade				Asphalt Notes	GPS Coordinates					
		Lane	Shoulder			Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC		Stabilized Subgrade	Concrete	Description (Depth - ft)	Soil Sample Number		AASHTO Classification	Soil Moisture	Boring Depth (ft)	Northing	Easting	
DCP-1 -L- Sta. 14+99	Fill 7.0		RT Median			8.0	LT								0.0-3.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-1	A-4	M	3.0		669,727	801,628
DCP-2 -L- Sta. 22+50	Fill 5.0		RT Median			6.0	LT								0.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-1	A-4	M	5.0		670,460	801,503
DCP-3 -L- Sta. 22+50	Fill 5.0		RT Shoulder			6.5	RT								0.0-1.2: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-1	A-4	M	1.2		670,455	801,539
DCP-4 -L- Sta. 27+51	Fill 6.0		RT Median			5.0	LT								0.0-3.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-71	A-4	M	3.0 AR		670,946	801,619
DCP-5 -L- Sta. 32+50	Fill 8.0		LT Median			9.0	LT								0.0-2.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-71	A-4	M	2.0 AR		671,440	801,675
DCP-6 -L- Sta. 37+50	Fill 5.0		LT Median			9.0	LT								0.0-5.0: RE - Orange-Brown, Silty CLAY	S-106	A-7-6(5)	M	5.0		671,938	801,668
DCP-7 -L- Sta. 42+49	Fill 5.0		LT Median			8.0	LT								0.0-2.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-5	A-4	M	2.0 AR		672,437	801,645
DCP-8 -L- Sta. 50+00	Fill 4.0		RT Shoulder			6.0	RT								0.0-4.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-5	A-4	M	4.0		673,172	801,777
DCP-9 -L- Sta. 55+00	Fill 5.0		RT Median			5.5	LT								0.0-4.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica 4.0-5.0: RE - Brown-Gray, Fine to Coarse Sandy SILT	Ref-5 Ref-37	A-4 A-4	M M	5.0		673,653	801,892
DCP-10 -L- Sta. 62+00	Fill 5.0		LT Median			6.0	LT								0.0-3.5: RE - Brown, Fine to Coarse Sandy SILT, with trace mica 3.5-4.5: RE - Boulder Fill	Ref-5	A-4	M	4.5 AR		674,277	802,208
DCP-11 -L- Sta. 66+99	Fill 5.0		LT Median			3.0	LT								0.0-4.5: RE - Orange-Brown, Fine Sandy, Silty CLAY, with trace mica and gravel	S-111	A-7-6(14)	M	4.5 AR		674,667	802,521
DCP-12 -L- Sta. 75+13	Fill 5.0		RT Median			4.0	LT								0.0-5.0: RE - Orange-Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-7	A-4	M	5.0		675,365	802,914
DCP-13 -L- Sta. 79+51	Fill 5.0		RT Median			7.0	LT								0.0-5.0: RE - Orange-Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-7	A-4	M	5.0		675,804	802,916
DCP-14 -L- Sta. 82+00	Fill 5.0		LT Median			8.0	LT								0.0-3.0: RE - Orange-Brown, Fine to Coarse Sandy SILT, with trace mica 3.0-4.0: RE - Brown, Silty CLAY, MP	Ref-7 S-114A	A-4 A-7-5(11)	M M	4.0		676,054	802,906
DCP-15 -L- Sta. 82+50	Fill 3.0		RT Shoulder			2.0	RT								0.0-3.0: RE - Orange-Brown, Fine to Coarse Sandy SILT, with trace mica 3.0-4.0: RE - Brown-Orange, Silty CLAY, MP, with trace mica	Ref-7 S-115	A-4 A-7-5(8)	M W	4.0		676,095	802,974

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(in)	Thickness (in)					Pavement Layering	Subgrade				Asphalt Notes	GPS Coordinates		
		Lane	Shoulder			Asphalt	ABC	Stabilized Subgrade	Concrete	Description (Depth - ft)		Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)		Northing	Easting	
DCP-16 -L Sta. 97+50	Fill 5.0	LT Shoulder		1.5 RT FW								0.0-3.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica	Ref-42	A-2-4	M	3.0 AR		677,500	803,455
DCP-17 -L Sta. 100+00	Fill 5.0	RT Median		6.0 LT FY								0.0-3.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-41	A-4	M	3.0 AR		677,688	803,632
DCP-18 -L Sta. 107+00	Fill 5.0	LT Median		6.0 LT FY								0.0-4.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-41	A-4	M	4.0		678,315	803,945
DCP-19 -L Sta. 110+50	Fill 5.0	RT Shoulder		3.0 RT FW								Utility Conflict, No Auger performed						678,590	804,171
DCP-20 -L Sta. 115+00	Fill 5.0	RT Median		5.0 LT FY								0.0-2.0: RE - Brown, Silty Fine to Coarse SAND, with boulders and trace mica	Ref-42	A-2-4	M	2.0 AR		679,022	804,319
DCP-21 -L Sta. 121+00	Fill 7.0	LT Median		4.5 LT FW								0.0-2.8: RE - Red-Brown, Fine to Coarse Sandy SILT	Ref-43	A-4	M	2.8 AR		679,620	804,359
DCP-22 -L Sta. 125+50	Fill 7.0	LT Shoulder		1.5 RT FW								Utility Conflict, No Auger performed						680,052	804,263
DCP-23 -L Sta. 132+00	Fill 5.0	RT Median		5.0 LT FY								0.0-5.0: RE - Red-Brown, Fine to Coarse Sandy SILT	Ref-44	A-4	M	5.0		680,698	804,165
DCP-25 -L Sta. 138+00	Fill 5.0	LT Shoulder		8.0 RT FW								Utility Conflict, No Auger performed RE - Dark Brown, Silty Fine to Coarse SAND, with trace gravel	Ref-124	A-2-4				681,282	804,005
DCP-24 -L Sta. 138+00	Fill 5.0	LT Median		7.0 LT FY								0.0-5.0: RE - Dark Brown, Silty Fine to Coarse SAND, with trace gravel	S-124	A-2-4	M	5.0		681,286	804,043
DCP-26 -L Sta. 141+50	Fill 5.0	RT Shoulder		2.0 RT FW								0.0-4.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica	Ref-42	A-2-4	M	4.0		681,638	804,080
DCP-27 -L Sta. 145+00	Fill 5.0	RT Median		6.0 LT FY								0.0-5.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica	Ref-42	A-2-4	M	5.0		681,986	804,046
DCP-28 -L Sta. 157+50												Utility Conflict, No Auger/DCP performed, test omitted						-	-
DCP-29 -L Sta. 161+00	Fill 5.0	LT Median		3.0 LT FY								0.0-5.0: RE - Brown, Fine to Coarse SAND, with trace gravel	Ref-16	A-1-b	M	5.0		683,564	804,273
DCP-30 -L Sta. 161+00	Fill 5.0	RT Median		5.5 LT FY								0.0-5.0: RE - Brown, Fine to Coarse SAND, with trace gravel	Ref-16	A-1-b	M	5.0		683,556	804,298

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		(ft)	(in)	Thickness (in)					Pavement Layering	Subgrade					GPS Coordinates			
		Lane	Shoulder			Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC		Stabilized Subgrade	Concrete	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing
DCP-32 -L Sta. 166+00	Fill 2.0	LT Shoulder		5.0 RT FW								Utility Conflict, No Auger performed RE - Brown, Silty Fine to Coarse SAND, with trace mica and gravel	Ref-18	A-2-4					684,049	804,407
DCP-31 -L Sta. 166+00	Fill 5.0	LT Median		5.0 LT FY								0.0-4.0: RE - Brown, Silty Fine to Coarse SAND, with trace mica and gravel Auger Refusal on Boulder	Ref-18	A-2-4	M	4.0 AR			684,037	804,439
DCP-33 -L Sta. 170+00	Fill 5.0	RT Shoulder		2.0 RT FW								Utility Conflict, No Auger performed							684,383	804,649
DCP-34 -L Sta. 184+00	Fill 5.0	RT Median		7.0 LT FY								0.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-50	A-4	M	5.0			685,690	805,151
DCP-35 -L Sta. 187+49	Fill 5.0	LT Shoulder		1.5 RT FW								Utility Conflict, No Auger performed							686,037	805,226
DCP-36 -L Sta. 188+00	Fill 5.0	LT Median		5.5 LT FY								0.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-50	A-4	M	5.0			686,072	805,274
DCP-37 -L Sta. 196+00	Fill 5.0	RT Median		4.5 LT FY								0.0-1.5: RE - Brown, Fine to Coarse Sandy SILT 1.5-2.8: RE - Tan, Silty CLAY, MP	Ref-50 S-137	A-4 A-7-5(9)	M M	2.8 AR			686,799	805,609
DCP-38 -L Sta. 200+00	Fill 5.0	RT Median		4.0 LT FY								0.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-50	A-4	M	5.0			687,169	805,761
DCP-39 -L Sta. 202+50	Fill 3.0	RT Shoulder		4.0 RT FW								0.0-1.2: RE - Dark Brown, Gravelly, Fine to Coarse Sandy SILT Auger	Ref-140	A-4	M	1.2 AR			687,389	805,884
DCP-40 -L Sta. 203+00	Fill 3.0	LT Median		9.0 LT FY								0.0-5.0: RE - Dark Brown, Gravelly, Fine to Coarse Sandy SILT	S-140	A-4(0)	M	5.0			687,458	805,846
DCP-41 -L Sta. 210+06	Fill 3.0	RT Median		4.0 LT FY								0.0-5.0: RE - RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-52	A-4	M	5.0			688,100	806,141
DCP-42 -L Sta. 210+06	Fill 3.0	RT Shoulder		3.0 RT FW								0.0-4.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-52	A-4	M	4.0			688,090	806,170
DCP-43 -L Sta. 217+50	Fill 2.0	LT Shoulder		1.5 RT FW								0.0-3.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-24	A-4	M	3.0 AR			688,813	806,364
DCP-44 -L Sta. 218+00	Fill 4.0	LT Median		5.0 LT FY								0.0-3.0: RE -Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-24	A-4	M	3.0 AR			688,848	806,411
DCP-45 -L Sta. 225+01	Fill 5.0	LT Median		5.5 LT FY								0.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-24	A-4	M	5.0			689,497	806,677

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

PAVEMENT INVESTIGATION DATA SHEET

Project:	48470.1.1
TIP:	R-5921

Route:	US 276 (Johnathan Creek Rd) from US 19 to 0.5 miles south of I-40
County:	Haywood

Date Performed:	11/16, 11/17, 11/18, 11/21, 11/22
Field Personnel:	M. Brewer, P. Tomasic, T. Wenner

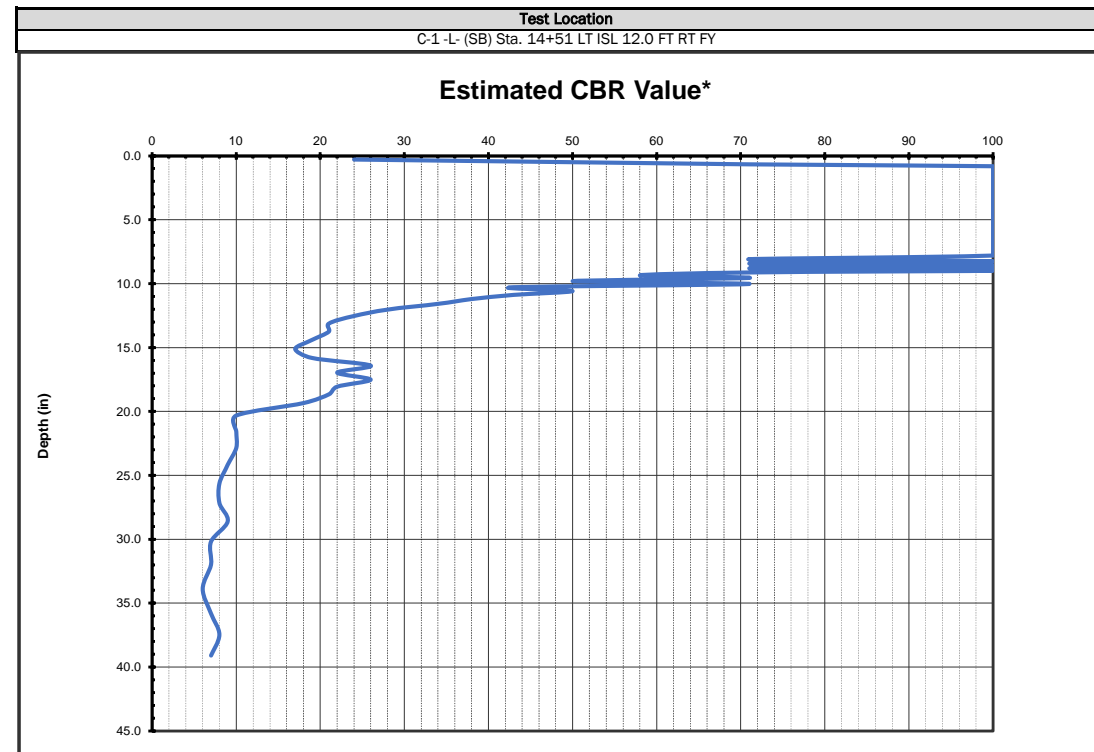
Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(in)	Thickness (in)					Pavement Layering	Subgrade					GPS Coordinates		
		Lane	Shoulder			Asphalt	ABC	Stabilized Subgrade	Concrete	Description (Depth - ft)		Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
DCP-46 -L Sta. 232+49	Fill 2.0		RT Shoulder		2.0 RT FW							0.0-3.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica	Ref-54	A-4	M	3.0 AR		690,165	807,020
DCP-47 -L Sta. 244+00	Fill 2.0		RT Median		2.0 LT FY							0.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace gravel and mica	Ref-27	A-4	M	5.0		691,243	807,423
DCP-48 -L Sta. 247+50	Fill 2.0		LT Shoulder		1.0 RT FW							Utility Conflict, No Auger performed						691,589	807,503
DCP-49 -L Sta. 248+00	Fill 5.0		LT Median		6.0 LT FY							0.0-2.0: RE - Brown, Fine to Coarse Sandy SILT, with trace gravel and mica	Ref-27	A-4	M	2.0 AR		691,623	807,550
DCP-50 -L Sta. 260+01	Fill 5.0		RT Median		1.0 LT FY							0.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace gravel and mica	Ref-27	A-4	M	5.0		692,721	808,040
DCP-51 -L Sta. 262+50	Fill 4.0		RT Shoulder		1.0 RT FW							0.0-4.0: RE - Brown, Fine to Coarse Sandy SILT, with trace gravel and mica	Ref-27	A-4	M	4.0		692,941	808,158
DCP-52 -L Sta. 263+00	Fill 5.0		LT Median		4.0 LT FY							0.0-3.0: RE - Brown, Fine to Coarse Sandy SILT, with trace gravel and mica	Ref-27	A-4	M	3.0 AR		693,012	808,117
DCP-53 -L Sta. 274+00	Fill 6.0		RT Median		4.0 LT FY							0.0-5.0: RE, Orange-Brown, Fine to Coarse Sandy CLAY, with trace gravel	S-153	A-6(1)	M	5.0		694,046	808,490
DCP-54 -L Sta. 277+48	Fill 5.0		CTL Median		15.0 LT FY							0.0-1.5: RE - Dark Brown-Red, Fine to Coarse Sandy SILT, with trace gravel	Ref-59	A-4	M	1.5 AR		694,390	808,548
DCP-55 -L Sta. 281+00	Fill 3.0		LT Shoulder		1.5 RT FW							Utility Conflict, No Auger performed						694,746	808,557
DCP-56 -L Sta. 281+00	Fill 5.0		LT Median		5.0 LT FY							Utility Conflict, No Auger performed						694,741	808,586
DCP-57 -L Sta. 285+05	Fill 4.0		RT Shoulder		2.0 RT FW							0.0-4.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-86	A-4	M	4.0		695,128	808,722
DCP-58 -L Sta. 286+00	Fill 2.0		RT Median		3.0 LT FY							0.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, with trace mica and gravel	Ref-86	A-4	M	5.0		695,227	808,711

Notes:  
Offset Distance: Left and Right Relative to the Direction of Travel

Prepared by: CTW  
Reviewed by: DMB

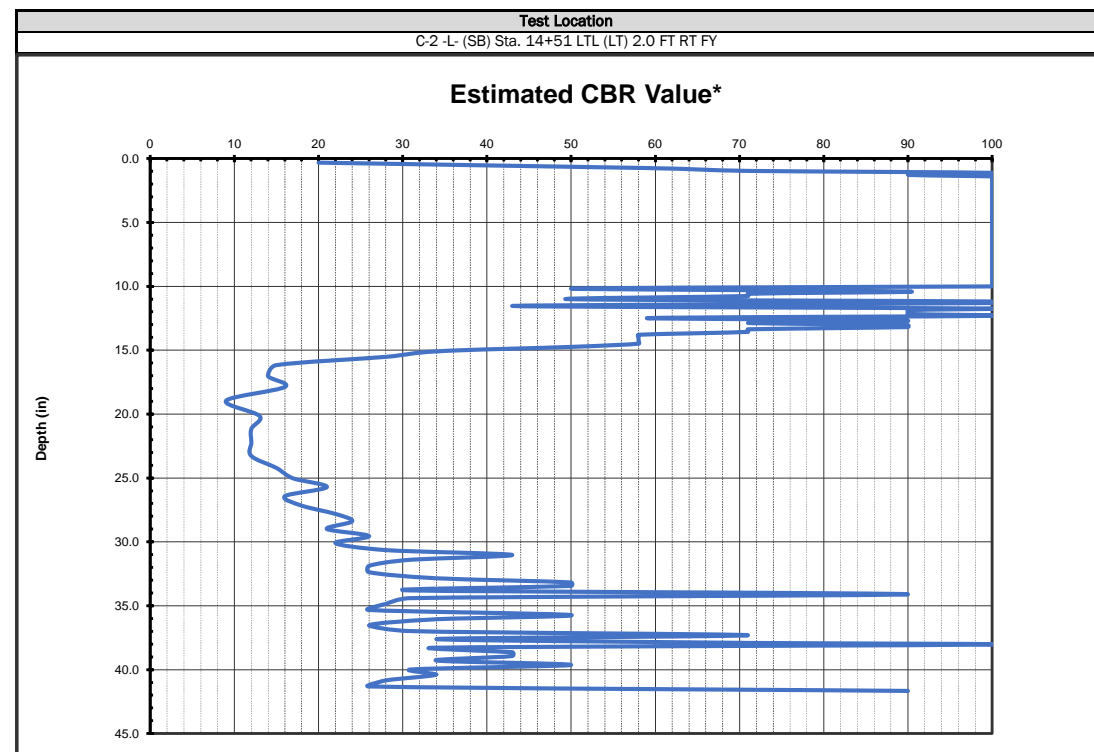


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
C-1-L-(SB) Sta. 14+51 LT ISL 12.0 FT RT FY				11/16 to 11/22/22	C-2-L-(SB) Sta. 14+51 LTL (LT) 2.0 FT RT FY				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	7.0 ft Fill	DCP	Cumulative cm per blow	ABC	8.0 ft Fill				
1.40	16.38			1.60	16.62	24.64	90.40				
1.90	16.66			2.20	16.76	24.75	91.10				
2.20	16.94			2.70	16.90	24.86	92.10				
2.50	17.22			3.00	17.04	24.97	93.40				
2.80	17.50			3.40	17.18	25.08	94.50				
2.90	17.82			3.70	17.32	25.19	95.00				
3.14	18.14			3.90	17.46	25.30	96.00				
3.38	18.46			4.00	17.60	25.50	96.50				
3.62	18.78			4.24	17.80	26.20	96.70				
3.86	19.10			4.48	18.00	26.60	97.70				
4.10	19.40			4.72	18.20	27.10	98.50				
4.34	19.70			4.96	18.40	27.60	99.30				
4.58	19.90			5.20	18.60	28.30	100.30				
4.82	20.30			5.30	18.80	28.50	101.00				
5.06	20.80			5.50	19.00	28.60	102.10				
5.30	21.10			5.70	19.20	28.90	103.10				
5.46	21.60			5.90	19.40	29.70	104.30				
5.62	21.90			6.10	19.60	29.90	105.60				
5.78	22.10			6.30	19.68	30.30	106.00				
5.94	22.60			6.54	19.76	30.70					
6.10	22.90			6.78	19.84	31.10					
6.32	23.40			7.02	19.92	31.40					
6.54	24.00			7.26	20.00	32.00					
6.76	24.50			7.50	20.08	32.40					
6.98	25.20			7.74	20.16	32.90					
7.20	25.70			7.98	20.24	33.30					
7.46	26.50			8.22	20.32	33.70					
7.72	27.20			8.46	20.40	34.20					
7.98	28.00			8.70	20.62	34.70					
8.24	28.90			8.90	20.84	35.30					
8.50	29.90			9.10	21.06	35.90					
8.72	31.10			9.30	21.28	36.50					
8.94	32.50			9.50	21.50	37.10					
9.16	34.10			9.70	21.58	37.80					
9.38	35.70			9.88	21.66	38.80					
9.60	37.40			10.06	21.74	40.00					
9.80	39.30			10.24	21.82	42.10					
10.00	41.00			10.42	21.90	44.40					
10.20	42.30			10.60	21.96	46.40					
10.40	43.80			10.80	22.02	49.90					
10.60	45.10			11.00	22.08	52.40					
10.82	46.60			11.20	22.14	55.10					
11.04	48.20			11.40	22.20	57.80					
11.26	50.00			11.60	22.32	60.40					
11.48	53.20			11.72	22.44	62.60					
11.70	56.40			11.84	22.56	64.50					
11.90	59.60			11.96	22.68	66.10					
12.10	63.20			12.08	22.80	68.10					
12.30	67.00			12.20	22.92	69.90					
12.50	70.90			12.48	23.04	71.40					
12.70	74.40			12.76	23.16	72.80					
12.92	78.90			13.04	23.28	74.40					
13.14	83.50			13.32	23.40	75.70					
13.36	88.60			13.60	23.48	77.20					
13.58	93.30			13.92	23.56	78.40					
13.80	97.00			14.24	23.64	79.20					
14.00	101.60			14.56	23.72	80.30					
14.20				14.88	23.80	81.60					
14.40				15.20	23.88	82.90					
14.60				15.40	23.96	83.90					
14.80				15.60	24.04	84.60					
15.06				15.80	24.12	85.30					
15.32				16.00	24.20	86.40					
15.58				16.20	24.31	86.80					
15.84				16.34	24.42	87.90					
16.10				16.48	24.53	89.10					



ABC	
ABC Thickness (in)	8.75
Average CBR	98
Weighted CBR Average	93
Maximum CBR Value	100
Minimum CBR Value	24

Soil Subgrade	
Average CBR	29
Weighted Average	16
Max CBR	100
Min CBR	6



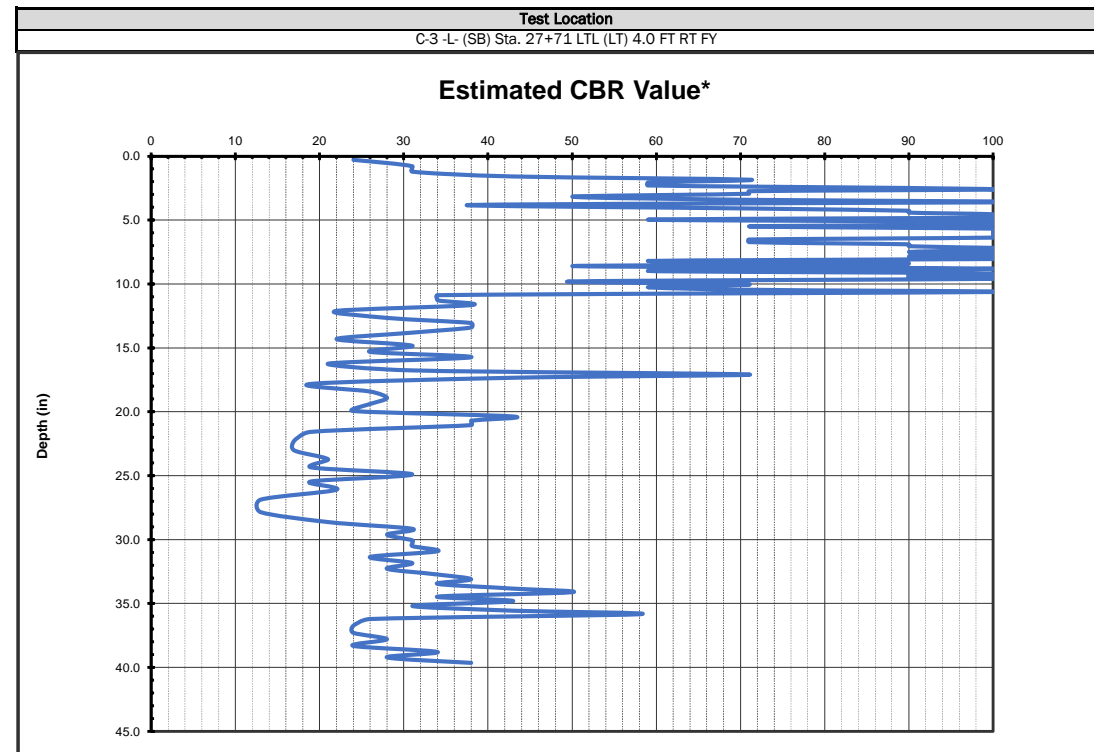
ABC	
ABC Thickness (in)	12.50
Average CBR	97
Weighted CBR Average	89
Maximum CBR Value	100
Minimum CBR Value	20

Soil Subgrade	
Average CBR	40
Weighted Average	28
Max CBR	100
Min CBR	9

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

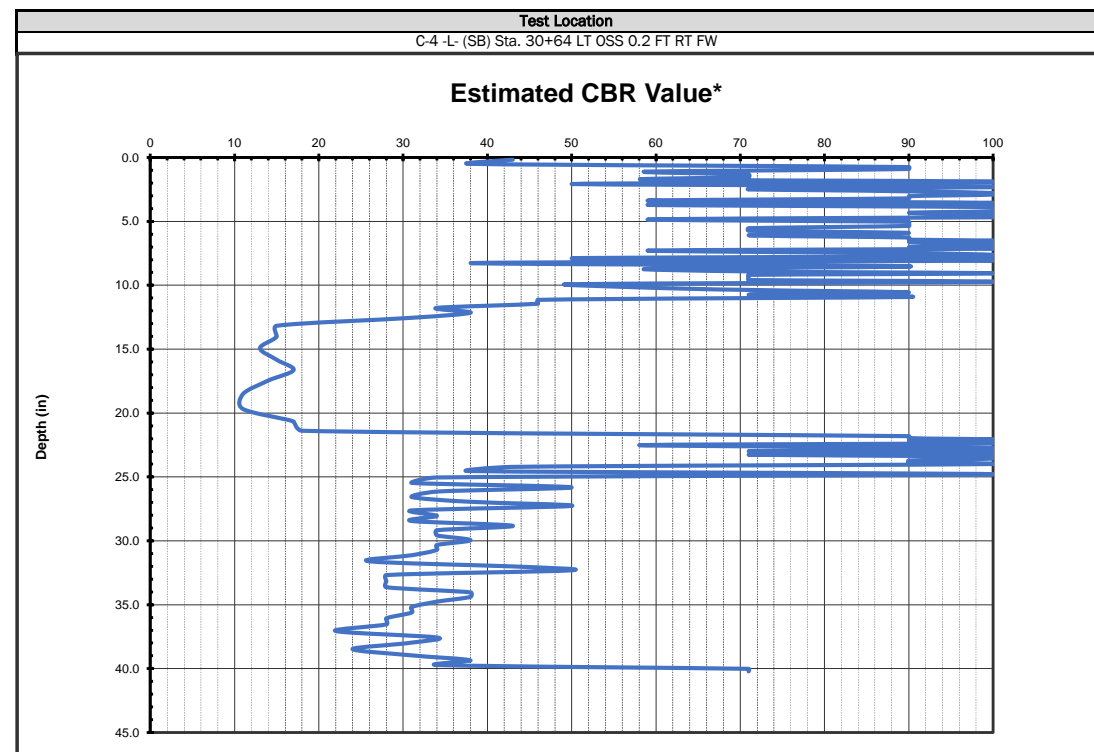


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
C-3-L- (SB) Sta. 27+71 LTL (LT) 4.0 FT RT FY				11/16 to 11/22/22	C-4-L- (SB) Sta. 30+64 LT OSS 0.2 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	6.0 ft Fill	DCP	Cumulative cm per blow	ABC	8.0 ft Fill
1.40	32.70			0.80	28.65	93.40	
2.50	33.60			1.70	29.40	94.90	
3.60	34.50			2.10	30.40	95.90	
4.40	35.60			2.50	31.30	97.00	
4.90	37.10			3.10	32.40	98.40	
5.50	38.20			3.60	34.50	99.50	
6.10	39.50			4.10	36.70	100.40	
6.50	40.40			4.70	39.10	101.40	
6.70	42.00			4.90	41.30	101.90	
7.20	43.10			5.60	43.20	102.40	
7.70	43.60			5.80	45.50		
8.40	44.40			6.00	48.50		
8.90	46.10			6.50	51.50		
9.10	47.40			6.90	53.40		
9.20	48.60			7.20	55.20		
10.10	49.90			7.50	55.60		
10.60	51.30			7.90	56.00		
11.00	52.10			8.30	56.10		
11.40	53.00			8.90	56.50		
11.60	53.90			9.10	56.70		
11.90	55.60			9.70	56.90		
12.10	57.50			10.00	57.50		
12.30	59.40			10.30	57.80		
12.90	61.00			10.60	58.00		
13.10	62.70			10.80	58.10		
13.40	63.80			11.20	58.60		
13.70	65.50			11.50	58.80		
14.20	67.00			11.70	59.30		
14.50	69.50			12.00	59.50		
14.80	71.90			12.60	59.70		
15.10	73.50			13.00	60.00		
15.40	74.60			13.40	60.40		
15.70	75.80			13.80	60.80		
16.00	76.90			14.30	61.10		
16.30	78.00			14.80	61.90		
16.80	79.00			15.20	62.80		
17.30	80.30			15.70	63.10		
17.70	81.40			16.10	64.10		
18.10	82.60			16.50	65.20		
18.30	83.60			16.60	65.90		
18.50	84.50			17.00	66.90		
18.80	85.50			17.30	68.00		
19.20	86.30			17.60	68.90		
19.40	87.00			18.00	69.60		
19.70	88.00			18.20	70.70		
20.10	88.80			18.80	71.70		
20.30	89.90			19.20	72.80		
20.50	90.70			19.40	73.60		
21.10	91.30			19.70	74.60		
21.50	92.60			20.40	75.60		
22.20	94.00			20.50	76.50		
22.50	95.40			21.40	77.50		
23.10	96.60			21.80	78.50		
23.40	98.00			22.40	79.60		
23.80	99.00			22.90	80.90		
24.20	100.20			23.10	81.70		
24.50	101.10			23.60	82.40		
25.20				24.10	83.60		
25.70				24.60	84.80		
26.30				24.80	86.00		
26.80				25.50	86.90		
27.10				26.10	87.80		
28.10				26.60	88.80		
29.10				27.00	89.90		
30.00				27.50	91.00		
31.50				27.90	92.20		



ABC	
ABC Thickness (in)	11.25
Average CBR	81
Weighted CBR Average	69
Maximum CBR Value	100
Minimum CBR Value	24

Soil Subgrade	
Average CBR	31
Weighted Average	28
Max CBR	71
Min CBR	13



ABC	
ABC Thickness (in)	10.00
Average CBR	82
Weighted CBR Average	75
Maximum CBR Value	100
Minimum CBR Value	38

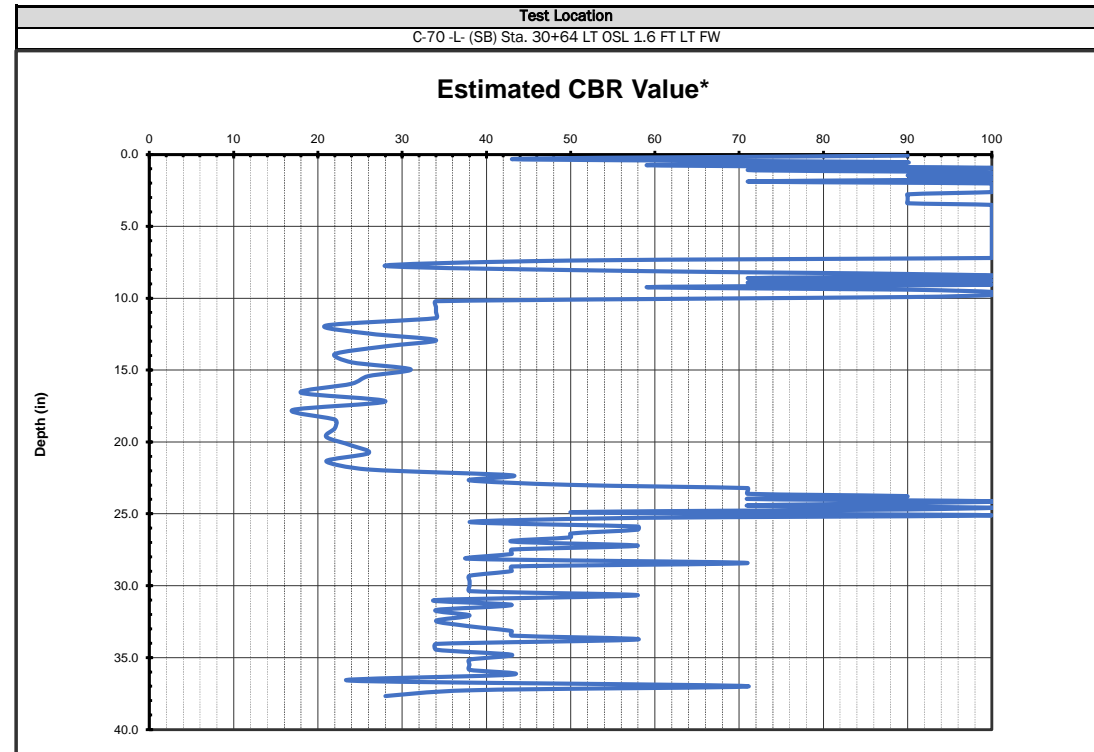
Soil Subgrade	
Average CBR	50
Weighted Average	34
Max CBR	100
Min CBR	11

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



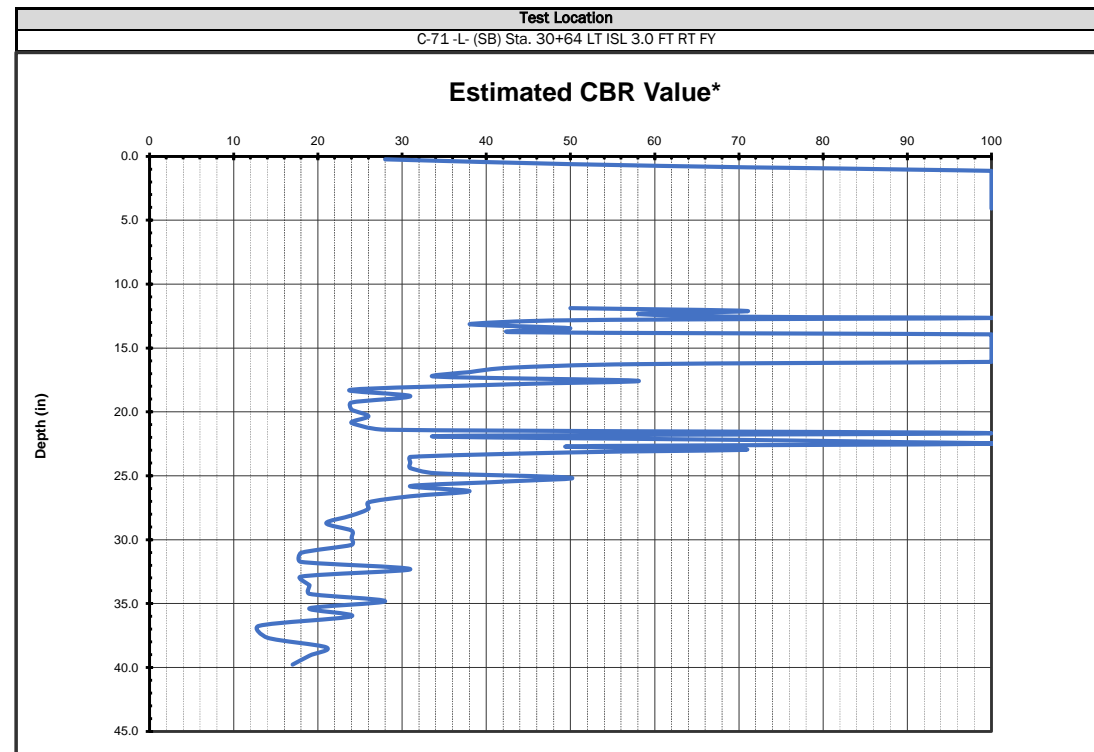


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-70 -L- (SB) Sta. 30+64 LT OSL 1.6 FT LT FW				11/16 to 11/22/22	C-71 -L- (SB) Sta. 30+64 LT ISL 3.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	8.0 ft Fill	DCP	Cumulative cm per blow	ABC	8.0 ft Fill
0.40	21.30	76.70		1.20	6.60	32.70	
1.20	21.60	77.60		1.90	6.70	33.80	
1.60	22.10	78.20		2.40	7.00	34.80	
2.20	22.40	79.20		2.80	7.20	35.50	
2.50	22.90	80.00		3.00	7.30	36.30	
3.00	23.10	81.00		3.20	7.40	37.40	
3.20	23.70	81.90		3.40	7.50	38.30	
3.50	24.10	82.90		3.60	7.60	39.40	
3.90	24.40	83.80		3.80	7.70	40.70	
4.20	24.70	84.60		3.96	7.80	42.00	
4.50	25.00	85.40		4.12	7.90	43.40	
5.00	25.40	86.00		4.28	8.00	45.00	
5.20	26.40	87.00		4.44	8.10	46.40	
5.52	27.40	88.00		4.60	8.20	47.80	
5.84	28.40	88.80		4.72	8.25	49.20	
6.16	29.40	89.70		4.84	8.30	51.00	
6.48	31.00	90.60		4.96	8.35	52.80	
6.80	32.30	91.50		5.08	8.40	53.90	
7.20	33.30	92.30		5.20	8.45	55.70	
7.60	34.50	93.70		5.40	8.50	57.40	
8.00	36.00	94.20		5.60	8.55	59.10	
8.40	37.40	95.10		5.80	8.60	60.30	
8.80	38.50	96.30		6.00	8.65	62.00	
8.94	39.80			6.20	8.70	63.40	
9.08	41.20			6.38	8.81	65.80	
9.22	43.00			6.56	8.92	68.10	
9.36	44.20			6.74	9.03	69.70	
9.50	46.10			6.92	9.14	71.40	
9.80	47.60			7.10	9.25	73.30	
10.10	49.10			7.28	9.36		
10.40	50.70			7.46	9.47		
10.70	52.10			7.64	9.58		
11.00	53.40			7.82	9.69		
11.18	55.00			8.00	9.80		
11.36	56.30			8.12	10.05		
11.54	57.10			8.24	10.30		
11.72	58.00			8.36	10.55		
11.90	58.70			8.48	10.80		
12.10	59.20			8.60	11.05		
12.30	59.70			8.76	11.30		
12.50	60.20			8.92	11.55		
12.70	60.60			9.08	11.80		
12.90	61.10			9.24	12.05		
13.14	61.40			9.40	12.30		
13.38	61.80			9.50	12.90		
13.62	62.30			9.60	13.70		
13.86	62.50			9.70	14.60		
14.10	62.90			9.80	15.60		
14.36	63.60			9.90	16.20		
14.62	63.90			10.00	17.00		
14.88	64.50			10.10	18.40		
15.14	65.40			10.20	19.50		
15.40	66.00			10.30	20.90		
15.72	66.60			10.40	22.30		
16.04	67.30			DCP REF	23.60		
16.36	68.00			AUGER 18.8	25.00		
16.68	68.80			TO 28.7 CM	26.20		
17.00	69.40			1.10	26.40		
17.28	70.20			1.80	27.40		
17.56	71.00			2.30	27.90		
17.84	71.90			2.90	28.30		
18.12	72.40			3.40	28.60		
18.40	73.20			3.50	29.30		
19.10	74.00			4.20	29.80		
20.30	74.90			5.10	30.50		
20.90	75.80			5.80	31.60		



ABC	
ABC Thickness (in)	9.50
Average CBR	93
Weighted CBR Average	86
Maximum CBR Value	100
Minimum CBR Value	28

Soil Subgrade	
Average CBR	47
Weighted Average	38
Max CBR	100
Min CBR	17



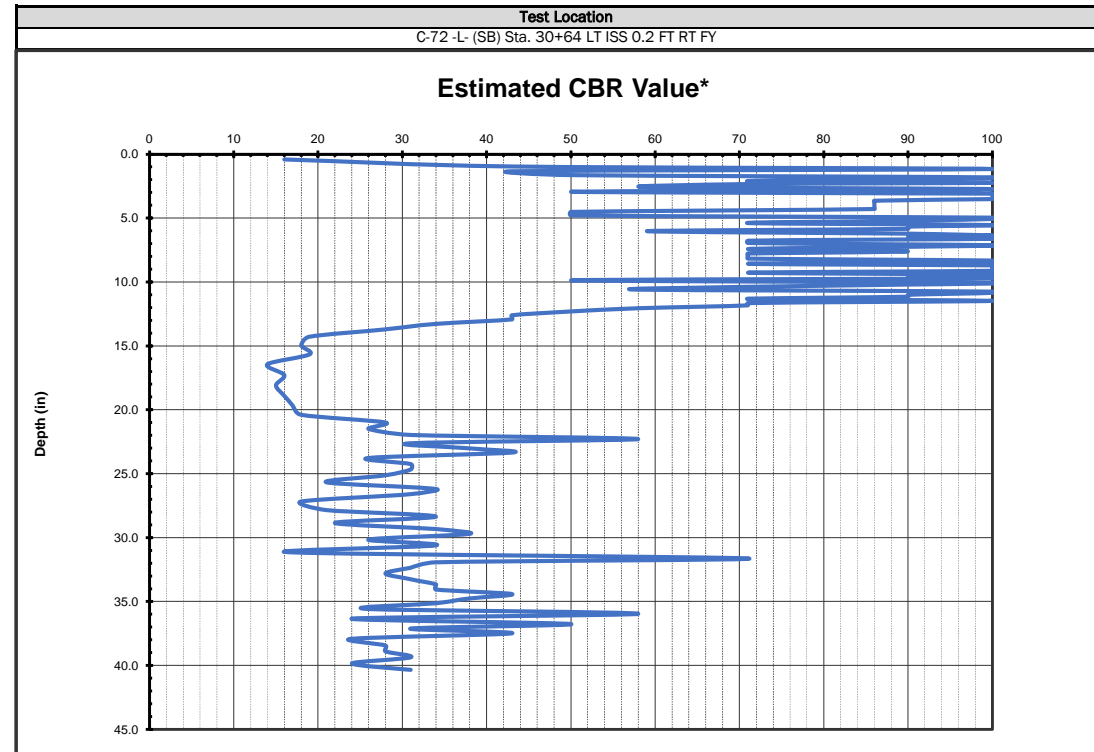
ABC	
ABC Thickness (in)	10.00
Average CBR	97
Weighted CBR Average	87
Maximum CBR Value	100
Minimum CBR Value	28

Soil Subgrade	
Average CBR	64
Weighted Average	25
Max CBR	100
Min CBR	1

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

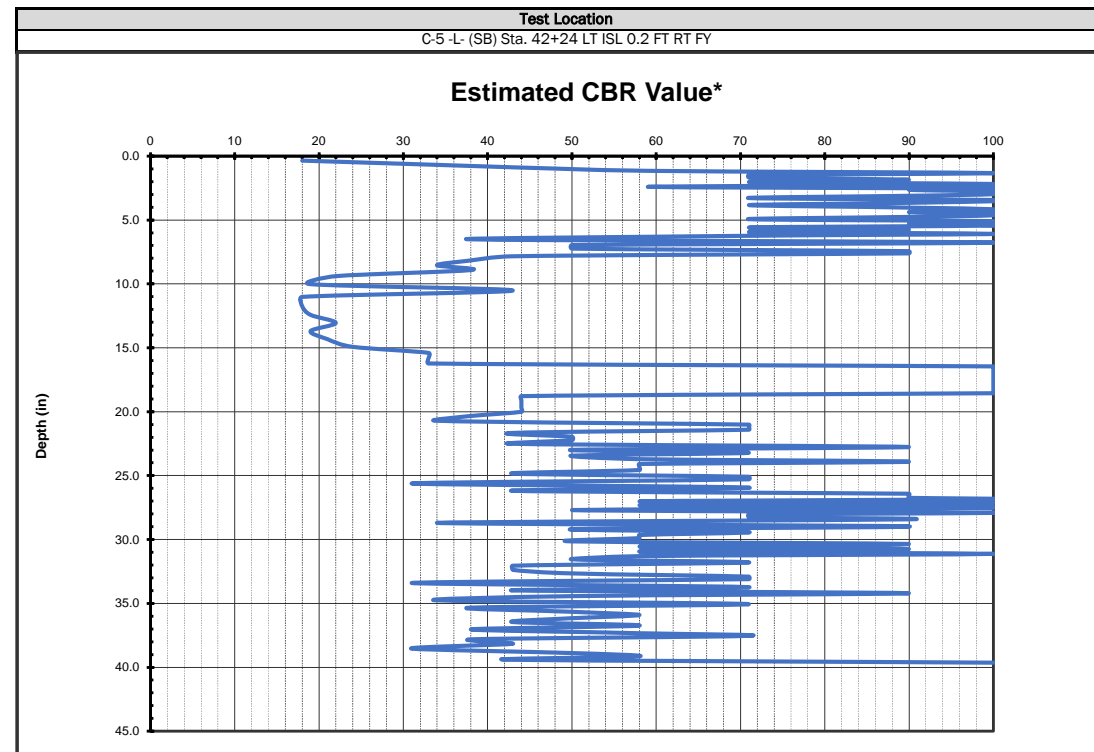


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run
C-72 -L- (SB) Sta. 30+64 LT ISS 0.2 FT RT FY				11/16 to 11/22/22	C-5 -L- (SB) Sta. 42+24 LT ISL 0.2 FT RT FY				11/16 to 11/22/22
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		ABC	8.0 ft Fill	DCP	Cumulative cm per blow		ABC	5.0 ft Fill
2.00	27.40	101.90			1.80	42.30	71.50		
2.80	27.70	103.00			2.60	42.40	72.00		
3.00	28.10				3.20	42.50	72.40		
3.80	28.50				3.50	42.60	73.40		
4.50	29.00				4.00	42.70	73.80		
4.70	29.30				4.50	42.80	74.50		
5.10	29.80				4.90	42.90	75.00		
5.60	30.30				5.40	43.01	75.60		
5.70	30.90				5.60	43.12	76.20		
6.20	31.60				5.80	43.23	76.90		
6.80	32.40				6.40	43.34	77.30		
7.10	33.20				6.50	43.45	77.90		
7.80	34.20				6.90	43.56	78.30		
7.90	35.40				7.10	43.67	78.90		
8.00	37.10				7.40	43.78	79.20		
8.20	38.90				7.70	43.89	79.80		
8.40	40.60				8.10	44.00	80.50		
8.60	42.90				8.60	44.30	81.00		
8.80	44.90				8.80	44.60	81.80		
9.00	47.00				9.10	44.90	82.60		
9.42	49.00				9.50	45.20	83.30		
9.84	50.90				10.00	45.50	83.80		
10.26	52.70				10.40	45.86	84.30		
10.68	53.90				10.70	46.22	85.40		
11.10	55.20				10.90	46.58	85.90		
11.80	56.30				11.30	46.94	86.70		
12.50	56.90				11.60	47.30	87.10		
12.70	58.00				11.90	48.08	87.80		
13.00	58.90				12.30	48.86	88.80		
13.40	59.70				12.80	49.64	89.30		
13.90	61.00				13.00	50.42	90.20		
14.20	62.10				13.30	51.20	90.90		
14.60	63.20				13.70	52.10	91.50		
15.00	64.40				13.90	53.10	92.20		
15.60	66.00				14.40	53.60	93.00		
16.00	67.00				14.80	54.10	93.60		
16.30	68.10				15.30	54.60	94.50		
16.70	69.90				15.60	55.40	95.10		
16.90	71.50				16.10	56.10	95.60		
17.40	72.50				17.00	56.80	96.50		
17.90	74.00				17.30	57.60	97.30		
18.20	75.00				18.00	58.00	98.40		
18.60	75.90				18.70	58.70	99.10		
19.10	77.20				19.10	59.20	99.70		
19.50	78.20				19.50	59.90	100.50		
20.00	80.10				20.30	60.50	100.80		
20.50	80.60				21.20	60.90			
21.00	81.60				22.20	61.50			
21.20	82.70				23.10	62.10			
21.50	83.90				24.60	62.70			
22.00	85.00				26.30	63.50			
22.20	86.00				27.10	64.00			
22.50	87.00				28.90	64.50			
22.80	87.80				30.70	65.60			
23.00	88.70				32.40	66.10			
23.30	89.70				33.90	66.90			
23.80	91.00				35.60	67.30			
24.00	91.60				37.20	67.70			
24.20	93.00				38.60	68.10			
24.60	93.70				39.63	68.30			
24.70	94.80				40.67	68.90			
25.40	95.60				41.70	69.10			
25.70	97.00				41.90	69.70			
26.10	98.20				42.00	70.00			
26.60	99.40				42.10	70.70			
27.20	100.50				42.20	71.00			



ABC	
ABC Thickness (in)	10.00
Average CBR	84
Weighted CBR Average	72
Maximum CBR Value	100
Minimum CBR Value	16

Soil Subgrade	
Average CBR	40
Weighted Average	31
Max CBR	100
Min CBR	14



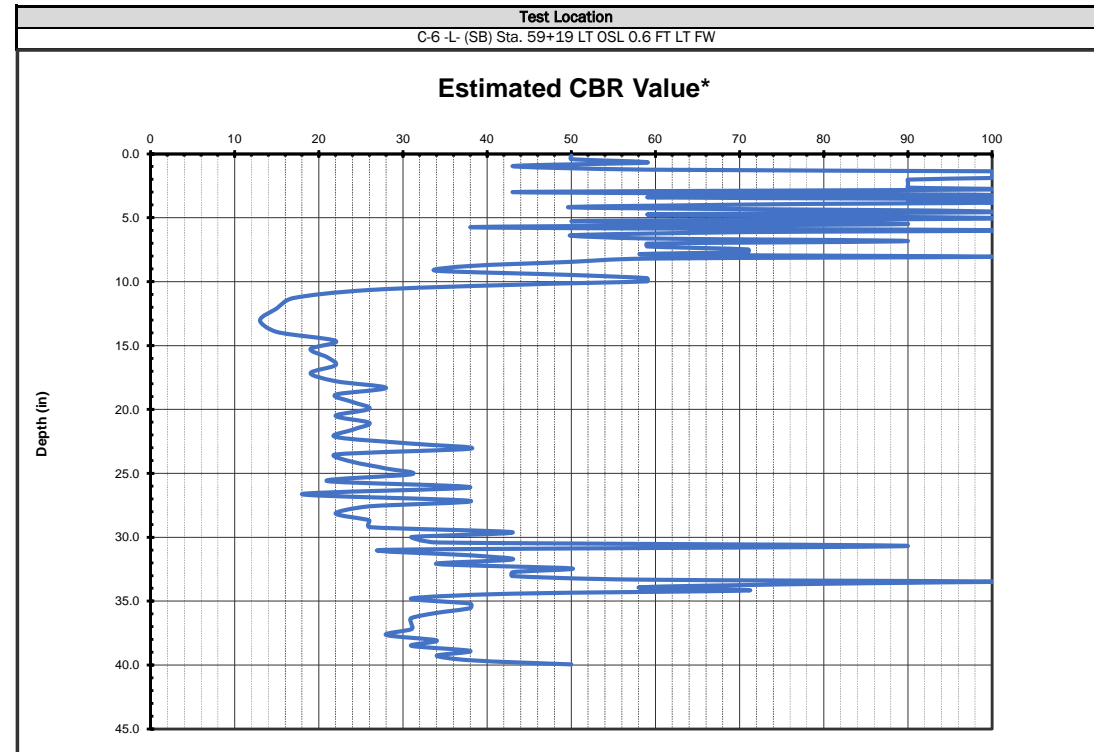
ABC	
ABC Thickness (in)	7.75
Average CBR	83
Weighted CBR Average	72
Maximum CBR Value	100
Minimum CBR Value	18

Soil Subgrade	
Average CBR	66
Weighted Average	50
Max CBR	100
Min CBR	18

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

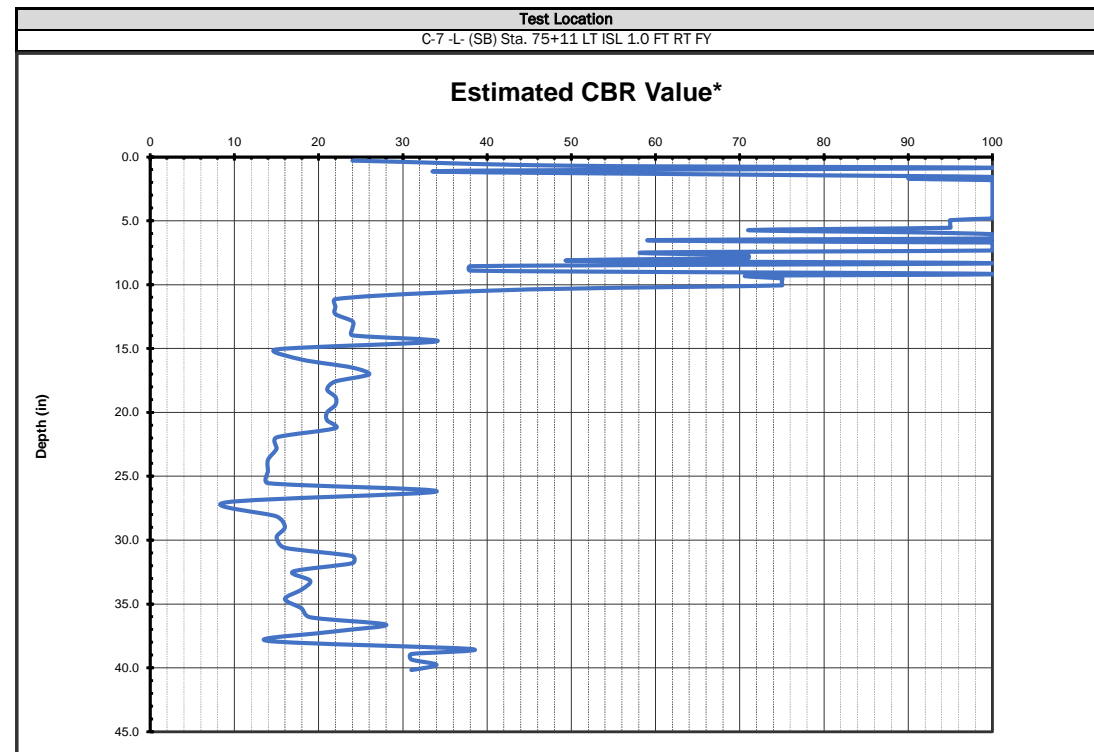


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
C-6 -L- (SB) Sta. 59+19 LT OSL 0.6 FT LT FW				11/16 to 11/22/22	C-7 -L- (SB) Sta. 75+11 LT ISL 1.0 FT RT FY		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	6.0 ft Fill	DCP	Cumulative cm per blow	ABC	8.0 ft Fill
0.70	51.30			1.40	24.85		
1.40	52.80			2.10	25.33		
2.00	54.10			2.30	25.80		
2.80	55.50			3.30	26.50		
3.40	57.00			3.80	27.50		
3.50	58.10			4.10	29.00		
3.78	59.00			4.50	30.50		
4.06	60.50			4.70	32.00		
4.34	61.90			4.90	33.40		
4.62	63.10			5.10	34.80		
4.90	64.20			5.30	36.20		
5.30	65.80			5.50	37.20		
5.70	66.70			5.74	39.40		
6.10	68.50			5.98	41.20		
6.50	69.40			6.22	42.60		
6.90	70.70			6.46	43.90		
7.20	72.20			6.70	45.40		
8.00	73.50			6.88	47.00		
8.30	74.80			7.06	48.50		
8.90	75.60			7.24	50.00		
9.10	76.70			7.42	51.60		
9.50	77.70			7.60	53.20		
9.80	78.10			7.88	54.70		
10.30	79.30			8.16	56.90		
11.00	80.20			8.44	59.10		
11.40	81.00			8.72	61.40		
11.70	82.00			9.00	63.70		
12.30	82.70			9.32	66.00		
12.70	83.50			9.64	67.00		
13.00	84.30			9.96	70.40		
13.70	84.90			10.28	72.60		
14.10	85.00			10.60	74.60		
15.00	85.40			10.96	76.70		
15.30	85.90			11.32	78.70		
15.80	86.50			11.68	80.10		
16.50	87.00			12.04	81.50		
17.10	87.80			12.40	83.40		
17.50	88.90			12.78	85.10		
18.10	89.80			13.16	86.90		
18.70	90.70			13.54	88.90		
19.20	91.70			13.92	90.70		
19.70	92.80			14.30	92.40		
20.30	93.90			14.80	93.60		
20.50	95.00			15.20	95.10		
21.10	96.20			15.50	97.40		
21.80	97.20			15.80	98.30		
22.70	98.30			16.10	99.40		
23.70	99.20			16.30	100.50		
24.40	100.20			16.90	101.50		
25.00	101.10			17.20	102.60		
25.60	101.80			17.50			
26.40				17.80			
27.70				18.00			
29.60				18.20			
31.80				18.50			
34.30				18.70			
36.40				19.30			
37.90				19.80			
39.60				20.30			
41.20				21.00			
42.70				21.30			
44.40				22.20			
45.90				23.10			
47.10				23.40			
48.60				23.90			
50.00				24.38			



ABC	
ABC Thickness (in)	10.00
Average CBR	74
Weighted CBR Average	66
Maximum CBR Value	100
Minimum CBR Value	34

Soil Subgrade	
Average CBR	35
Weighted Average	29
Max CBR	100
Min CBR	13



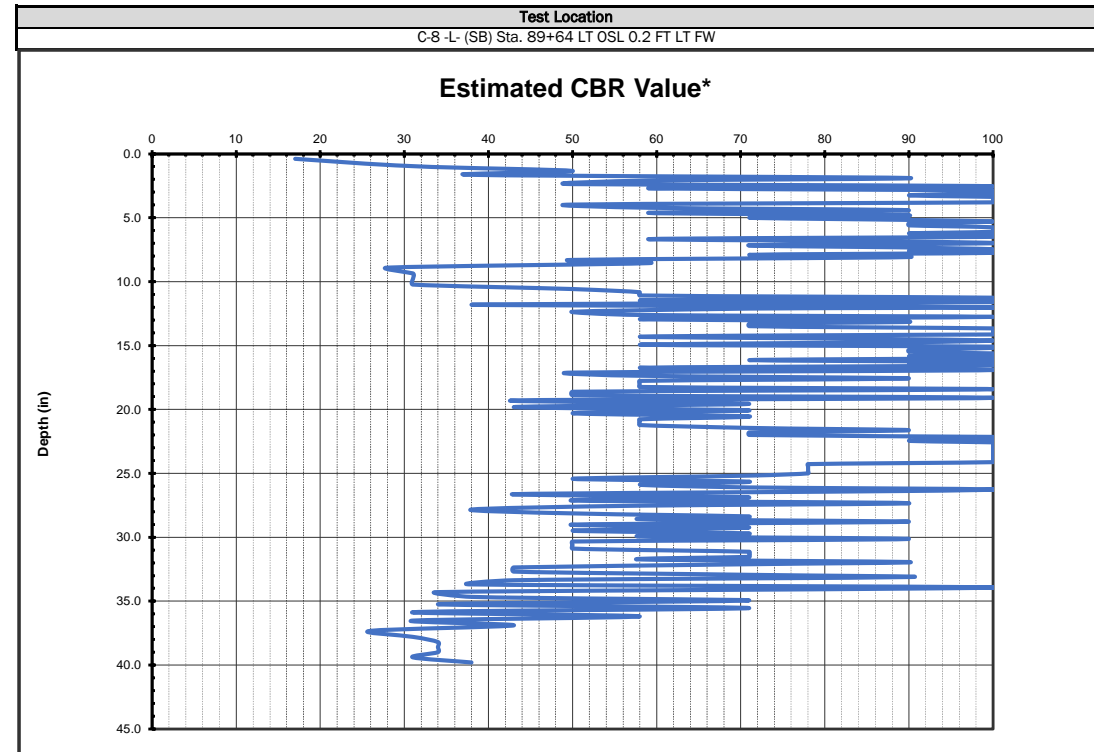
ABC	
ABC Thickness (in)	9.00
Average CBR	90
Weighted CBR Average	79
Maximum CBR Value	100
Minimum CBR Value	24

Soil Subgrade	
Average CBR	29
Weighted Average	22
Max CBR	100
Min CBR	9

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

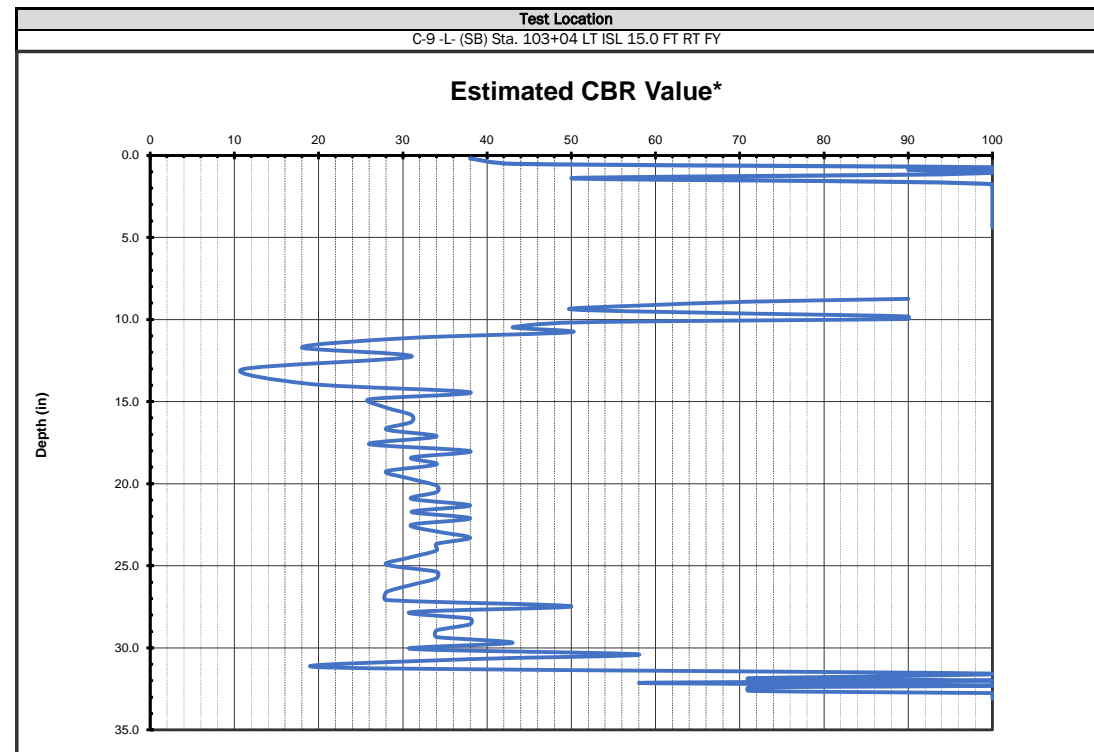


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-8 -L- (SB) Sta. 89+64 LT OSL 0.2 FT LT FW				11/16 to 11/22/22	C-9 -L- (SB) Sta. 103+04 LT ISL 15.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.90	34.00 60.80			0.90	DCP REF 61.80		
3.00	34.50 61.10			1.70	AUGER 9.10 62.30		
3.70	34.80 61.40			2.00	TO 20.30 CM 62.80		
4.60	35.10 61.86			2.40	1.70	63.00	
5.00	35.30 62.32			2.60	2.10	63.02	
5.60	35.50 62.78			2.80	2.60	63.03	
6.30	35.70 63.24			3.20	3.20	63.05	
6.50	36.00 63.70			3.90	3.90	63.06	
7.10	36.60 64.20			4.30	4.40	63.08	
7.40	37.00 64.90			4.60	4.80	63.10	
7.70	37.20 65.40			4.80	5.20	63.11	
8.00	37.60 66.00			5.10	5.90	63.13	
8.40	38.20 66.50			5.40	6.70	63.14	
8.70	38.40 66.80			5.60	7.40	63.16	
8.90	38.70 67.20			5.80	8.50	63.18	
9.20	39.10 68.00			5.90	10.30	63.19	
9.50	39.50 68.50			5.99	11.40	63.21	
9.70	39.80 69.20			6.07	14.20	63.22	
10.40	40.00 69.60			6.16	15.90	63.24	
11.00	40.40 70.20			6.24	16.80	63.26	
11.40	40.70 71.10			6.33	18.10	63.27	
12.00	41.20 71.80			6.41	19.30	63.29	
12.40	41.50 72.30			6.50	20.40	63.30	
12.90	41.90 72.90			6.58	21.50	63.32	
13.30	42.20 73.30			6.67	22.70	63.34	
13.60	42.80 74.00			6.75	23.70	63.35	
14.00	43.10 74.50			6.84	25.00	63.37	
14.40	43.80 75.20			6.92	25.90	63.38	
14.70	44.40 75.70			7.01	27.00	63.40	
15.00	44.80 76.30			7.09	28.00	63.42	
15.30	45.40 76.70			7.18	29.20	63.43	
15.60	46.00 77.40			7.26	30.30	63.45	
16.00	46.60 78.10			7.35	31.30	63.46	
16.30	46.90 78.80			7.43	32.30	63.48	
16.60	47.60 79.30			7.52	33.40	63.50	
17.20	48.30 79.80			7.60	34.30	63.51	
17.60	48.60 80.30			7.67	35.40	63.53	
17.90	49.40 80.90			7.74	36.30	63.54	
18.40	49.90 81.30			7.81	37.40	63.56	
18.80	50.70 81.80			7.88	38.40	63.58	
19.10	51.20 82.60			7.95	39.30	63.59	
19.50	51.90 83.40			8.02	40.30	63.61	
19.80	52.40 83.90			8.09	41.30	63.62	
20.30	53.00 84.30			8.16	42.40	63.64	
20.70	53.60 85.10			8.23	43.60	63.66	
21.40	54.20 86.00			8.30	44.60	63.67	
22.00	54.70 86.20			8.37	45.60	63.69	
23.20	55.10 86.60			8.44	46.70	63.70	
24.30	55.60 87.60			8.51	47.90	63.72	
25.40	56.10 88.50			8.58	49.10	63.74	
26.50	56.40 89.00			8.65	49.80	63.75	
27.20	56.60 90.00			8.72	50.90	63.77	
27.80	56.80 90.50			8.79	51.80	63.78	
28.40	57.20 91.60			8.86	52.70	63.80	
28.70	57.46 92.20			8.93	53.70	DCP REF 63.80	
28.80	57.72 93.30			9.00	54.70	SO/CLP	
29.40	57.98 94.10			9.22	55.50		
29.50	58.24 95.40			9.44	56.60		
30.40	58.50 96.50			9.66	57.20		
30.50	58.78 97.50			9.88	58.10		
31.00	59.06 98.50			10.10	59.70		
31.70	59.34 99.50			10.32	60.00		
32.30	59.62 100.60			10.54	60.40		
32.50	59.90 101.50			10.76	60.90		
33.10	60.20			10.98	61.00		
33.50	60.50			11.20	61.60		



ABC	
ABC Thickness (in)	9.25
Average CBR	80
Weighted CBR Average	67
Maximum CBR Value	100
Minimum CBR Value	17

Soil Subgrade	
Average CBR	72
Weighted Average	61
Max CBR	100
Min CBR	26



ABC	
ABC Thickness (in)	9.25
Average CBR	95
Weighted CBR Average	32
Maximum CBR Value	100
Minimum CBR Value	1

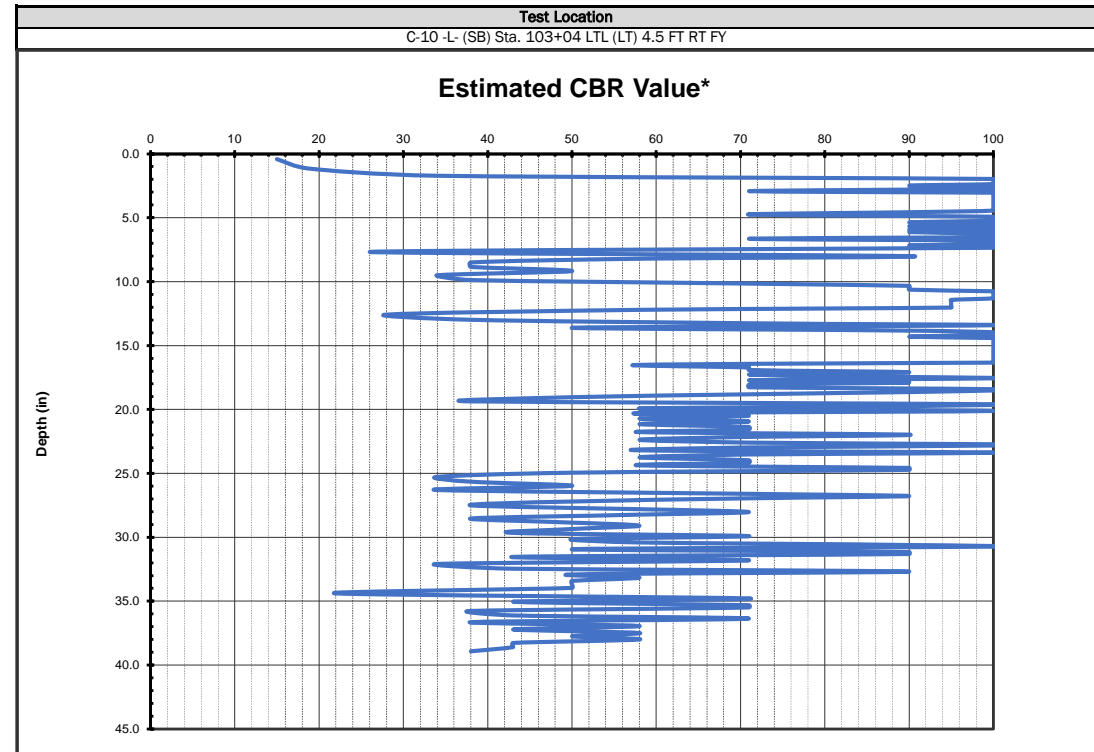
Soil Subgrade	
Average CBR	68
Weighted Average	36
Max CBR	100
Min CBR	11

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



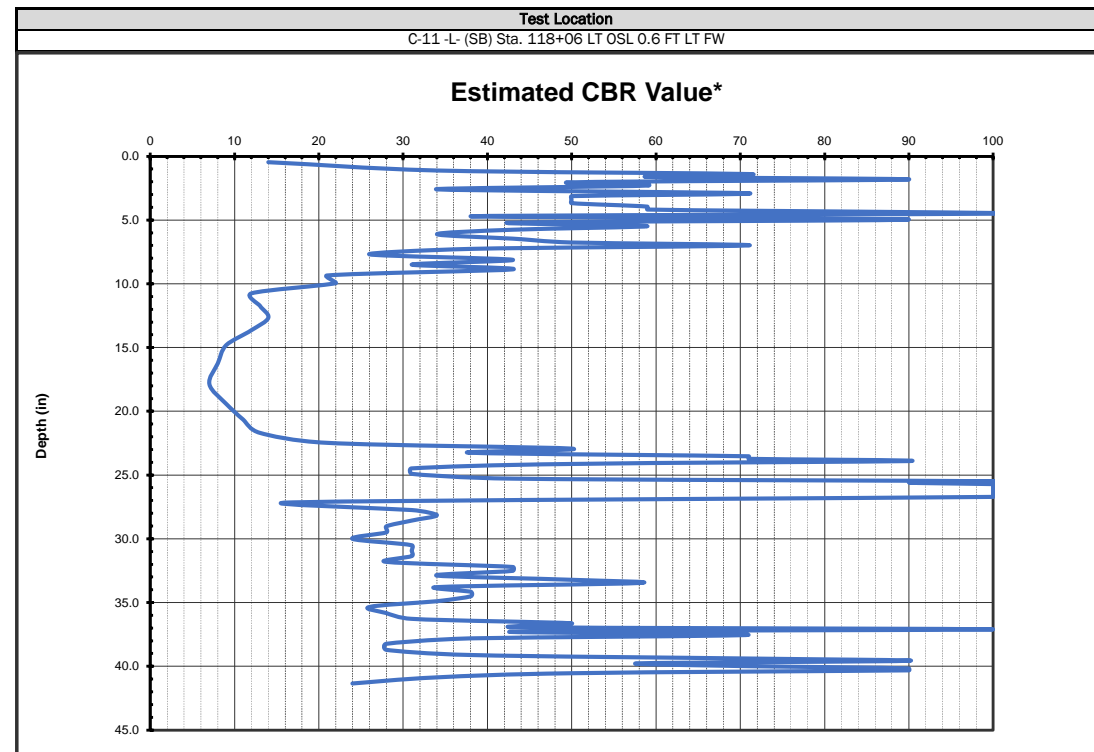


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
C-10 -L- (SB) Sta. 103+04 LTL (LT) 4.5 FT RT FY				11/16 to 11/22/22	C-11 -L- (SB) Sta. 118+06 LT OSL 0.6 FT LT FW	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	7.0 ft Fill
2.10	25.50	44.50	80.50	2.30	72.00		
3.80	26.00	44.70	81.00	3.30	73.10		
4.80	26.40	45.20	82.00	3.80	74.30		
5.10	26.80	45.60	82.80	4.40	75.50		
5.40	27.20	46.10	83.20	4.80	76.90		
5.60	27.40	46.60	83.90	5.50	78.00		
5.90	27.60	46.90	84.50	6.10	79.10		
6.10	27.80	47.10	85.20	7.10	80.20		
6.50	28.10	47.50	85.90	7.60	81.40		
6.80	28.30	48.00	86.60	8.30	82.20		
7.10	28.60	48.70	88.10	9.00	83.00		
7.60	28.80	49.60	88.60	9.70	84.00		
7.80	29.18	49.90	89.40	10.30	84.70		
8.00	29.56	50.30	89.90	10.90	85.30		
8.11	29.94	50.90	90.40	11.30	86.30		
8.22	30.32	51.20	91.30	11.50	87.20		
8.33	30.70	51.80	92.10	12.40	88.10		
8.44	31.30	52.30	92.60	12.80	89.10		
8.55	32.50	52.90	93.50	13.60	90.40		
8.66	33.40	53.40	94.10	14.20	91.60		
8.77	33.90	54.00	94.90	15.00	92.70		
8.88	34.20	54.50	95.50	16.00	93.40		
8.99	34.90	55.00	96.20	16.80	94.20		
9.10	35.30	55.60	96.80	17.50	94.30		
9.30	35.60	56.00	97.60	18.00	95.10		
9.50	35.80	56.50	98.40	18.90	95.60		
9.70	36.10	57.10	99.30	20.20	96.50		
9.90	36.50	57.60		21.00	97.70		
10.10	36.70	57.80		22.10	98.90		
10.36	36.90	58.10		22.90	99.80		
10.62	37.04	58.60		24.50	100.30		
10.88	37.17	59.20		26.00	100.70		
11.14	37.31	59.50		28.60	101.30		
11.40	37.44	60.00		31.00	101.80		
11.80	37.58	60.60		33.30	102.20		
12.30	37.71	61.10		36.00	102.60		
12.60	37.85	61.60		39.30	103.30		
12.80	37.98	62.20		43.20	104.30		
13.10	38.12	62.60		47.60	105.70		
13.40	38.25	63.00		51.00			
13.80	38.39	63.70		53.90			
14.10	38.52	64.70		56.30			
14.20	38.66	65.60		57.90			
14.60	38.79	66.30		58.60			
14.80	38.93	67.30		59.50			
15.20	39.06	67.80		60.00			
15.30	39.20	68.20		60.50			
15.70	39.33	68.70		60.90			
16.00	39.47	69.40		61.60			
16.20	39.60	70.30		62.70			
16.50	39.77	70.90		63.80			
16.60	39.94	71.40		64.60			
17.10	40.11	72.00		64.80			
17.40	40.28	72.90		65.20			
17.70	40.45	73.60		65.42			
18.00	40.62	74.20		65.64			
18.40	40.79	74.90		65.86			
18.50	40.96	75.70		66.08			
18.80	41.13	76.20		66.30			
20.10	41.30	76.90		66.64			
20.50	41.60	77.50		66.98			
21.10	42.20	77.90		67.32			
22.00	42.70	78.20		67.66			
22.90	43.20	78.90		68.00			
23.60	43.60	79.30		69.90			
24.60	44.10	79.70		71.00			



ABC	
ABC Thickness (in)	9.50
Average CBR	89
Weighted CBR Average	68
Maximum CBR Value	100
Minimum CBR Value	15

Soil Subgrade	
Average CBR	76
Weighted Average	64
Max CBR	100
Min CBR	22



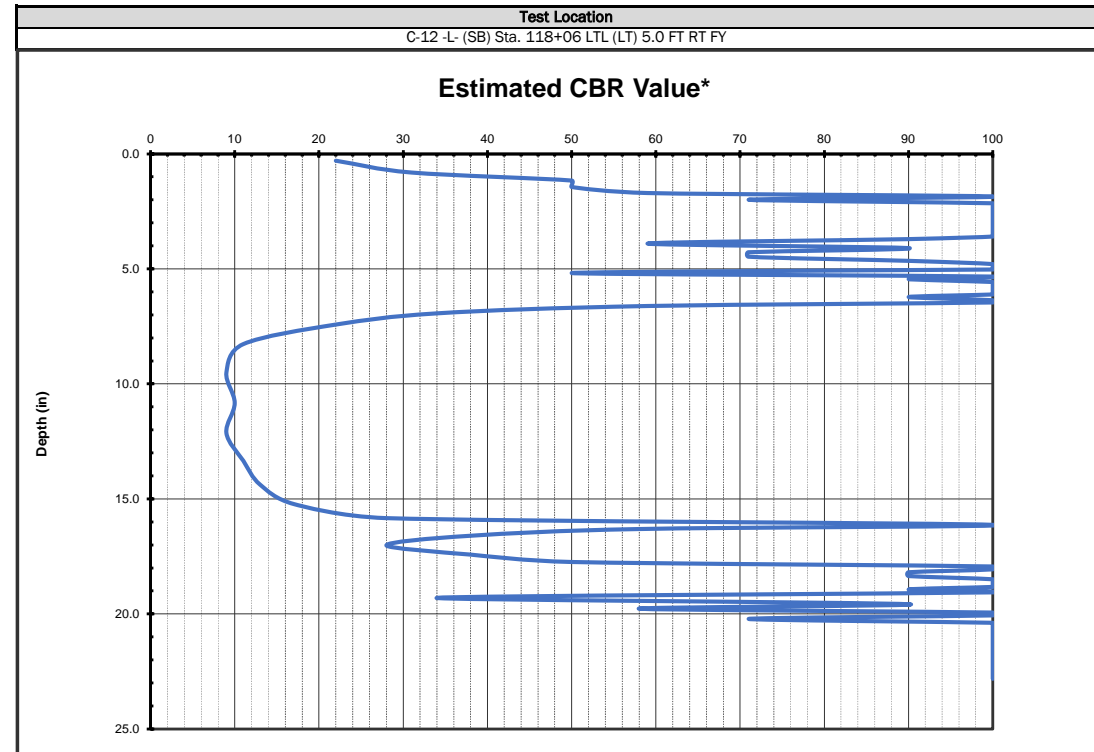
ABC	
ABC Thickness (in)	8.00
Average CBR	55
Weighted CBR Average	46
Maximum CBR Value	100
Minimum CBR Value	14

Soil Subgrade	
Average CBR	48
Weighted Average	30
Max CBR	100
Min CBR	7

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

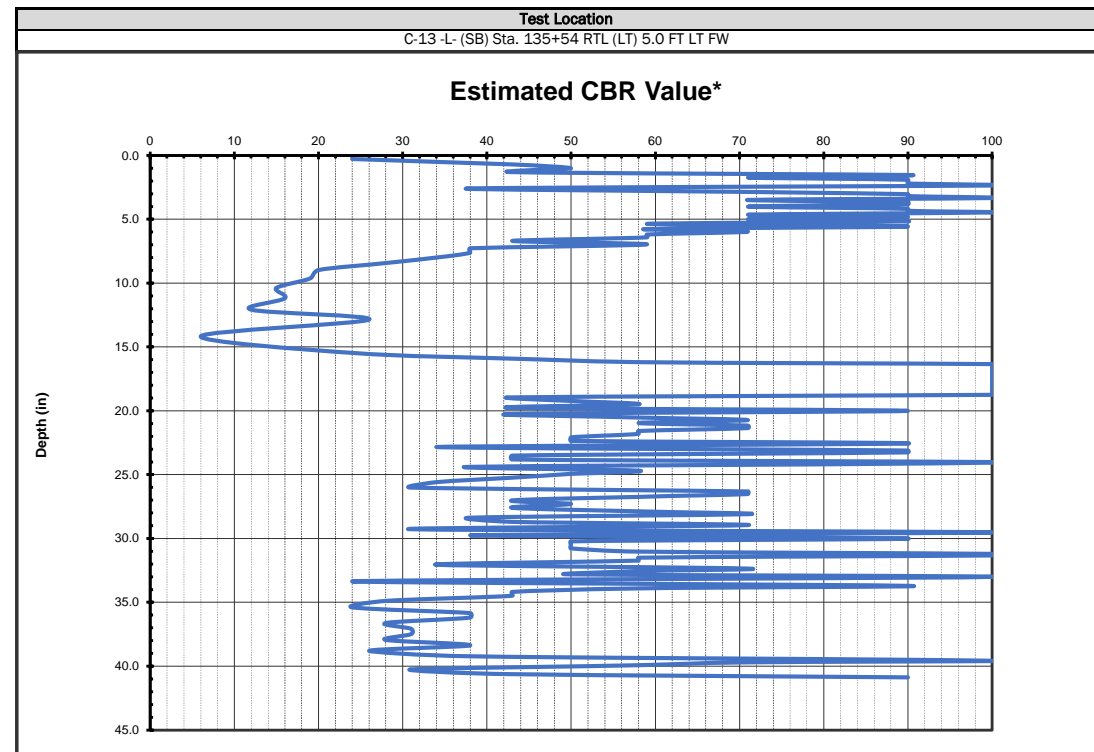


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-12 -L- (SB) Sta. 118+06 LTL (LT) 5.0 FT RT FY				11/16 to 11/22/22	C-13 -L- (SB) Sta. 135+54 RTL (LT) 5.0 FT LT FW	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	7.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.50	43.80	57.55		1.40	44.24	72.50	
2.60	44.70	57.64		2.20	44.31	73.30	
3.30	45.40	57.73		2.90	44.38	73.80	
4.00	45.70	57.82		3.70	44.45	74.90	
4.60	46.00	57.91		4.10	44.52	75.10	
4.80	46.40	58.00		4.60	44.59	76.00	
5.30	46.80	DCP REF		5.00	44.66	76.40	
5.60	47.10	60.1*		5.40	44.73	77.10	
5.90	47.40			5.80	44.80	77.80	
6.09	47.70			6.10	44.95	78.50	
6.28	47.90			7.00	45.09	79.10	
6.47	48.30			7.50	45.24	79.40	
6.66	48.50			7.90	45.38	79.70	
6.85	49.50			8.30	45.53	80.30	
7.04	49.90			8.60	45.67	80.90	
7.23	50.50			9.10	45.82	81.90	
7.42	50.80			9.50	45.96	82.40	
7.61	51.10			9.90	46.11	83.00	
7.80	51.60			10.40	46.25	83.70	
7.94	51.90			10.80	46.40	84.00	
8.08	52.10			11.20	46.54	85.40	
8.22	52.20			11.50	46.69	85.80	
8.36	52.36			12.00	46.83	86.40	
8.50	52.52			12.40	46.98	87.20	
8.64	52.68			12.90	47.12	88.00	
8.78	52.84			13.30	47.27	89.20	
8.92	53.00			13.90	47.41	90.60	
9.06	53.08			14.30	47.56	91.50	
9.20	53.16			14.90	47.70	92.40	
9.60	53.24			15.40	48.50	93.60	
10.20	53.32			16.00	49.20	94.70	
10.60	53.40			16.60	49.80	95.80	
11.10	53.56			17.40	50.60	97.00	
11.60	53.72			18.00	51.00	97.90	
12.00	53.88			18.90	51.80	99.20	
12.30	54.04			19.80	52.40	100.10	
12.50	54.20			20.80	52.90	100.50	
12.70	54.36			22.00	53.50	100.60	
12.80	54.52			23.60	54.00	101.10	
13.50	54.68			25.30	54.50	101.70	
13.60	54.84			27.40	55.10	102.80	
14.00	55.00			29.40	55.70	103.60	
14.30	55.10			32.00	56.40	104.00	
14.50	55.20			33.30	57.10		
14.80	55.30			38.60	57.50		
15.10	55.40			40.00	58.50		
15.20	55.50			40.80	58.90		
15.40	55.60			41.40	59.30		
15.60	55.70			41.60	60.10		
16.00	55.80			41.90	60.90		
16.30	55.90			42.20	61.10		
16.50	56.00			42.50	61.50		
17.10	56.11			42.80	62.40		
18.10	56.22			43.10	63.00		
19.60	56.33			43.40	63.70		
22.40	56.44			43.47	64.50		
25.90	56.55			43.54	65.50		
29.10	56.66			43.61	66.60		
32.50	56.77			43.68	67.10		
35.30	56.88			43.75	67.60		
37.70	56.99			43.82	68.20		
39.60	57.10			43.89	69.00		
40.80	57.19			43.96	69.70		
41.10	57.28			44.03	70.50		
41.70	57.37			44.10	71.10		
42.60	57.46			44.17	71.60		



ABC	
ABC Thickness (in)	9.75
Average CBR	85
Weighted CBR Average	54
Maximum CBR Value	100
Minimum CBR Value	9

Soil Subgrade	
Average CBR	88
Weighted Average	48
Max CBR	100
Min CBR	9



ABC	
ABC Thickness (in)	10.00
Average CBR	67
Weighted CBR Average	55
Maximum CBR Value	100
Minimum CBR Value	19

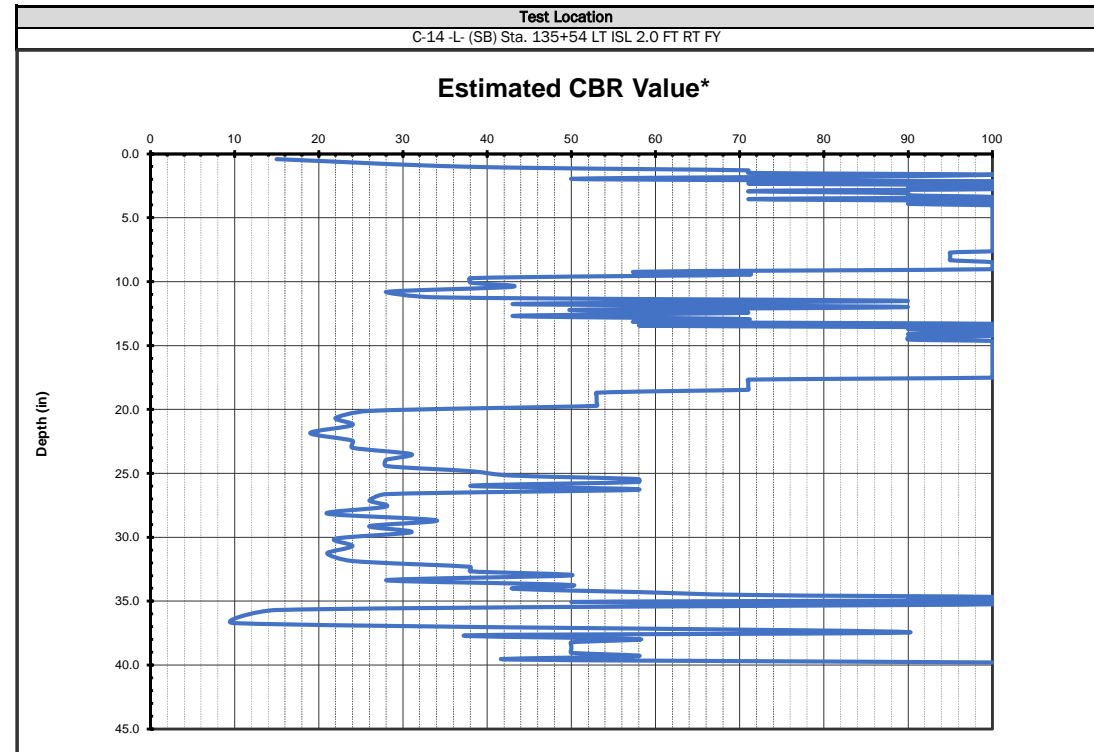
Soil Subgrade	
Average CBR	70
Weighted Average	46
Max CBR	100
Min CBR	6

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



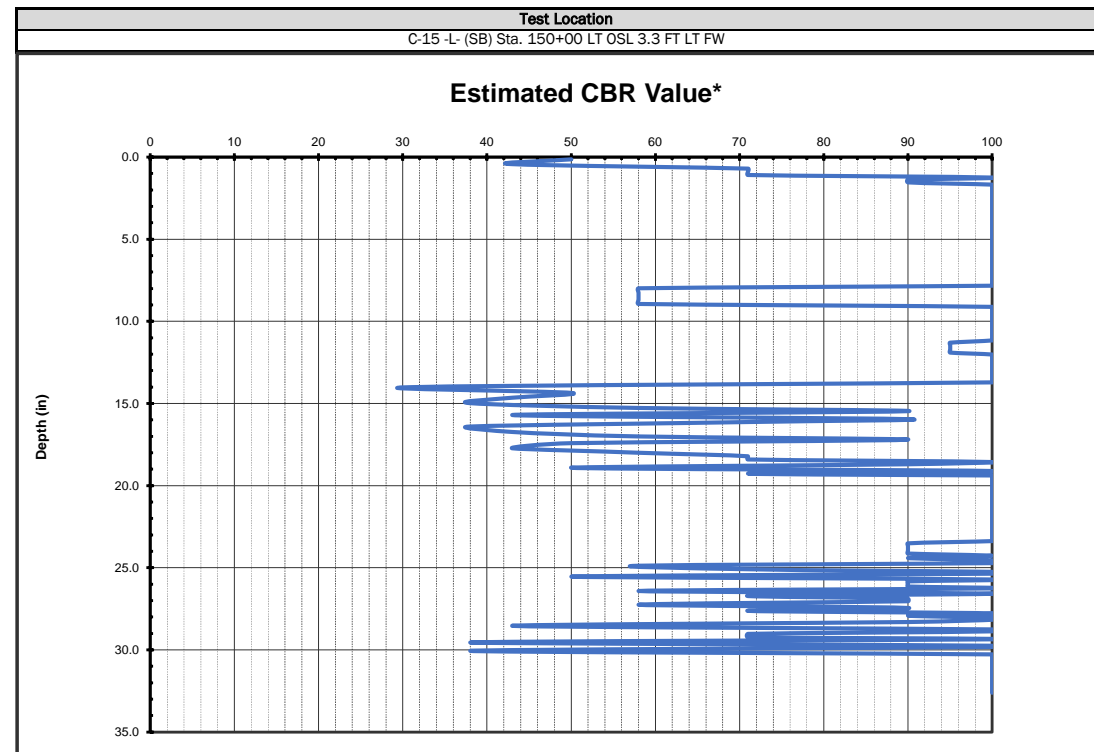


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location	Date Run			
C-14 -L- (SB) Sta. 135+54 LT ISL 2.0 FT RT FY				11/16 to 11/22/22	C-15 -L- (SB) Sta. 150+00 LT OSL 3.3 FT LT FW	11/16 to 11/22/22			
Type	Test Interval			Datum	Type	Test Interval			Datum
DCP	Cumulative cm per blow			ABC	DCP	Cumulative cm per blow			ABC
				5.0 ft Fill					5.0 ft Fill
2.10	18.50	40.96	88.70		0.70	17.12	41.20	62.20	80.96
3.00	18.68	41.12	89.40		1.50	17.36	42.10	62.50	81.02
3.50	18.86	41.28	89.60		2.00	17.60	42.90	62.70	81.09
4.00	19.04	41.44	91.70		2.50	17.82	43.50	62.90	81.15
4.20	19.22	41.60	94.80		3.00	18.04	43.90	63.50	81.22
4.60	19.40	41.76	95.20		3.30	18.26	44.60	64.00	81.28
5.30	19.78	41.92	96.10		3.70	18.48	45.40	64.30	81.35
5.60	20.16	42.08	96.70		4.10	18.70	46.00	64.50	81.41
6.10	20.54	42.24	97.40		4.40	18.96	46.50	65.20	81.48
6.30	20.92	42.40	98.10		4.60	19.22	47.00	65.40	81.54
6.50	21.30	42.62	98.80		4.80	19.48	47.30	65.80	81.61
6.90	21.66	42.84	99.50		5.00	19.74	47.70	66.20	81.67
7.10	22.02	43.06	100.10		5.20	20.00	48.40	66.60	81.74
7.60	22.38	43.28	100.90		5.40	20.60	48.70	66.80	81.80
8.00	22.74	43.50	101.20		5.62	21.20	49.20	67.40	81.91
8.40	23.10	43.72			5.84	21.80	49.30	67.60	82.02
8.60	23.70	43.94			6.06	22.40	49.40	68.10	82.13
8.70	24.20	44.16			6.28	23.00	49.50	68.50	82.24
9.20	25.10	44.38			6.50	23.28	49.60	68.90	82.35
9.50	26.00	44.60			6.74	23.56	49.70	69.50	82.46
9.70	26.80	45.10			6.98	23.84	49.80	69.90	82.57
10.10	28.00	45.60			7.22	24.12	49.90	70.40	82.68
10.25	29.00	46.10			7.46	24.40	50.00	70.70	82.79
10.40	29.40	46.60			7.70	24.62	50.10	71.10	82.90
10.55	30.20	47.10			7.90	24.84	50.20	71.40	DCP REF
10.70	30.60	47.76			8.10	25.06	50.42	71.70	50/2.0'
10.85	31.30	48.42			8.30	25.28	50.64	72.10	
11.00	31.80	49.08			8.50	25.50	50.86	72.90	
11.15	32.60	49.74			8.70	25.78	51.08	73.20	
11.30	33.10	50.40			8.88	26.06	51.30	73.50	
11.45	33.70	51.70			9.06	26.34	51.52	74.00	
11.60	33.80	53.20			9.24	26.62	51.74	74.50	
11.74	34.40	54.60			9.42	26.90	51.96	74.60	
11.88	34.60	56.30			9.60	27.22	52.18	75.50	
12.02	35.00	57.70			9.74	27.54	52.40	75.60	
12.16	35.30	59.10			9.88	27.86	52.68	75.90	
12.30	35.60	60.20			10.02	28.18	52.96	76.80	
12.44	36.00	61.40			10.16	28.50	53.24	77.00	
12.58	36.30	62.60			10.30	28.88	53.52	77.30	
12.72	36.70	63.50			10.62	29.26	53.80	77.60	
12.86	37.10	64.30			10.94	29.64	54.12	77.86	
13.00	37.22	64.90			11.26	30.02	54.44	78.12	
13.24	37.34	65.50			11.58	30.40	54.76	78.38	
13.48	37.46	66.40			11.90	30.68	55.08	78.64	
13.72	37.58	67.00			12.18	30.96	55.40	78.90	
13.96	37.70	68.20			12.46	31.24	55.68	79.10	
14.20	37.84	69.50			12.74	31.52	55.96	79.30	
14.38	37.98	70.70			13.02	31.80	56.24	79.50	
14.56	38.12	72.30			13.30	32.14	56.52	79.70	
14.74	38.26	73.30			13.48	32.48	56.80	79.90	
14.92	38.40	74.60			13.66	32.82	57.12	79.96	
15.10	38.54	75.70			13.84	33.16	57.44	80.02	
15.30	38.68	77.20			14.02	33.50	57.76	80.08	
15.50	38.82	78.60			14.20	33.80	58.08	80.14	
15.70	38.96	80.20			14.32	34.10	58.40	80.20	
15.90	39.10	81.60			14.44	34.40	58.62	80.26	
16.10	39.27	82.50			14.56	34.70	58.84	80.32	
16.38	39.44	83.40			14.68	35.00	59.06	80.38	
16.66	39.61	84.10			14.80	36.10	59.28	80.44	
16.94	39.78	85.30			15.12	36.80	59.50	80.50	
17.22	39.95	86.00			15.44	37.60	59.90	80.57	
17.50	40.12	86.80			15.76	38.50	60.30	80.63	
17.70	40.29	87.40			16.08	39.10	60.70	80.70	
17.90	40.46	87.90			16.40	39.50	61.10	80.76	
18.10	40.63	88.20			16.64	40.30	61.50	80.83	
18.30	40.80	88.60			16.88	40.70	61.80	80.89	



ABC	
ABC Thickness (in)	9.00
Average CBR	95
Weighted CBR Average	84
Maximum CBR Value	100
Minimum CBR Value	15

Soil Subgrade	
Average CBR	70
Weighted Average	47
Max CBR	100
Min CBR	10



ABC	
ABC Thickness (in)	7.50
Average CBR	97
Weighted CBR Average	93
Maximum CBR Value	100
Minimum CBR Value	43

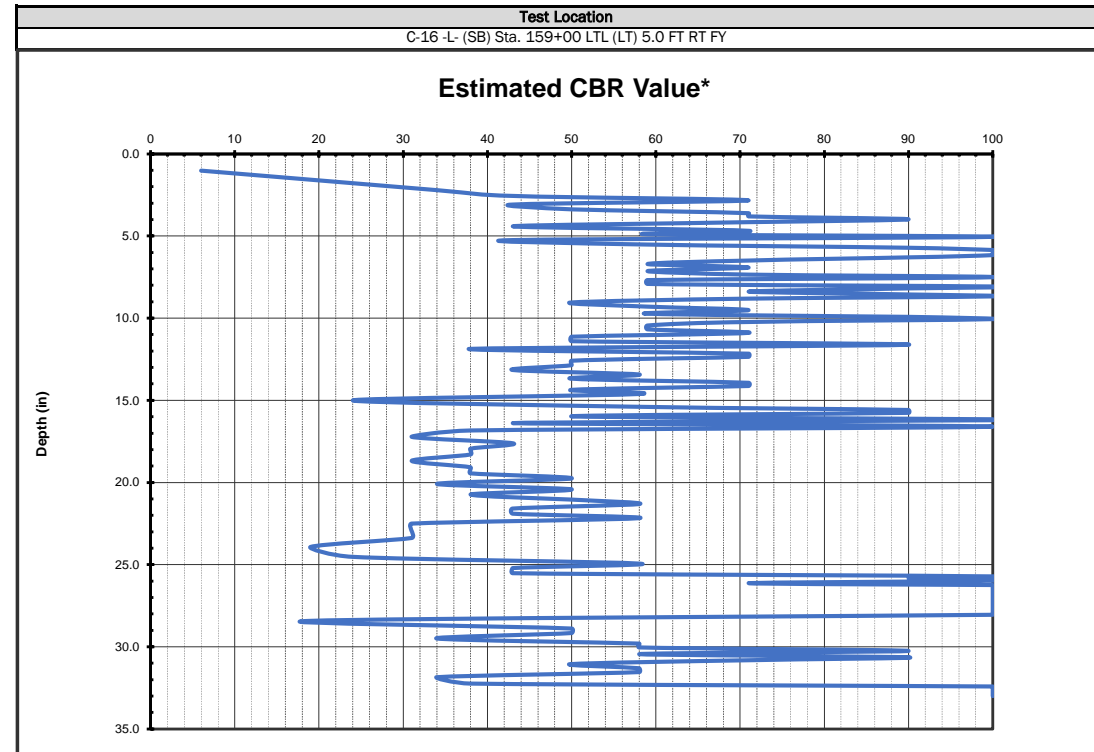
Soil Subgrade	
Average CBR	92
Weighted Average	82
Max CBR	100
Min CBR	31

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



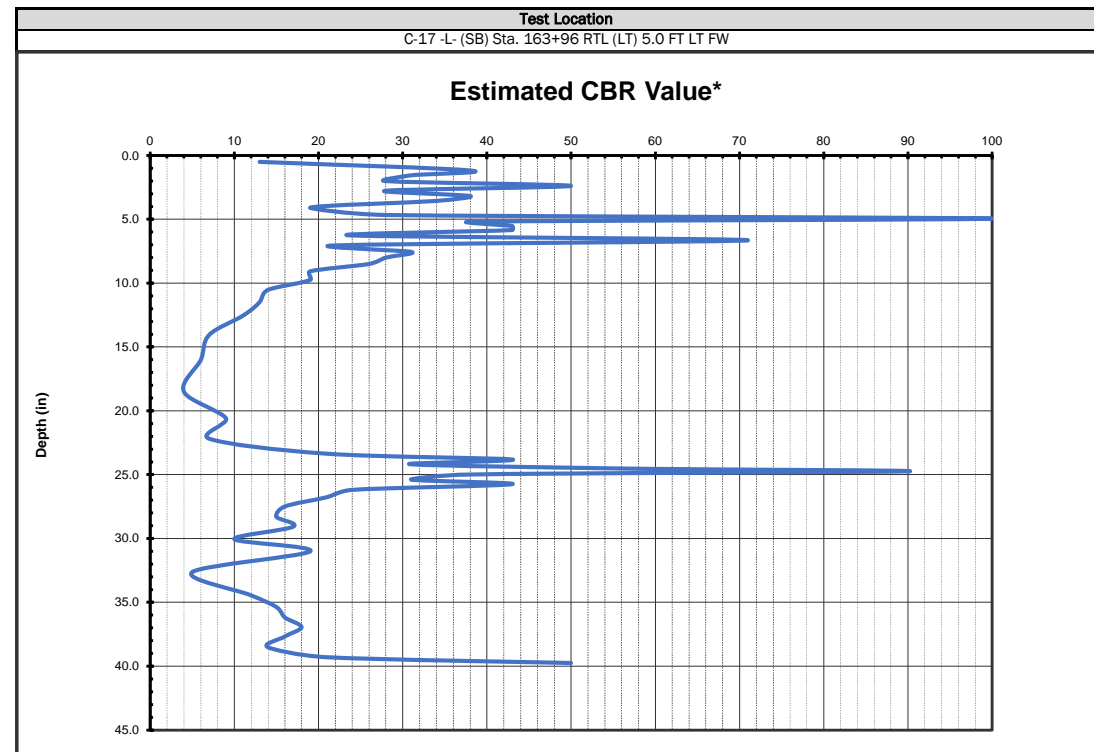


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location	Date Run			
C-16 -L- (SB) Sta. 159+00 LTL (LT) 5.0 FT RT FY				11/16 to 11/22/22	C-17 -L- (SB) Sta. 163+96 RTL (LT) 5.0 FT LT FW	11/16 to 11/22/22			
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		ABC	6.0 ft Fill	DCP	Cumulative cm per blow		ABC	6.0 ft Fill
5.10	41.10	69.43	83.32		2.50				
6.10	41.20	69.54	83.35		3.40				
6.90	42.00	69.65	83.38		4.50				
7.40	42.30	69.76	83.41		5.70				
8.20	43.20	69.87	83.44		6.40				
8.90	44.30	69.98	83.47		7.60				
9.40	45.10	70.09	83.50		8.50				
9.90	46.00	70.20	83.53		9.50				
10.30	46.90	70.31	83.56		11.20				
10.80	48.00	70.42	83.59		12.40				
11.60	48.90	70.53	83.62		12.70				
12.10	49.80	70.64	83.65		13.60				
12.70	50.50	70.75	83.68		14.40				
12.90	51.50	70.86	83.71		15.20				
13.70	52.20	70.97	83.74		16.60				
14.30	53.10	71.08	83.77		17.10				
14.70	53.80	71.19	83.80		18.60				
15.00	54.40	71.30	DCP REF		19.70				
15.30	55.20	73.00	80/0'		20.90				
15.50	56.00	73.70			22.20				
15.80	56.60	74.40			23.90				
16.20	57.70	75.40			25.60				
16.70	58.80	76.00			27.90				
17.30	59.90	76.60			30.40				
17.80	61.60	77.00			33.40				
18.40	63.00	77.60			38.00				
18.90	63.60	78.00			43.30				
19.20	64.40	78.50			50.60				
19.80	65.20	79.20			54.10				
20.40	65.40	79.80			58.50				
20.60	65.80	80.40			60.10				
21.00	66.10	81.40			60.90				
21.50	66.60	82.30			62.00				
21.90	66.70	82.33			62.60				
22.10	66.77	82.36			63.00				
22.60	66.83	82.39			63.90				
23.30	66.90	82.42			65.00				
23.90	66.96	82.45			65.80				
24.40	67.03	82.48			67.20				
25.00	67.09	82.51			68.80				
25.40	67.16	82.54			70.80				
25.70	67.22	82.57			72.90				
26.20	67.29	82.60			74.80				
26.80	67.35	82.63			77.90				
27.40	67.42	82.66			79.60				
27.90	67.48	82.69			86.20				
28.60	67.55	82.72			88.80				
29.30	67.61	82.75			90.90				
29.70	67.68	82.78			92.90				
30.60	67.74	82.81			94.70				
31.10	67.81	82.84			96.70				
31.60	67.87	82.87			99.00				
32.30	67.94	82.90			100.60				
33.00	68.00	82.93			101.30				
33.80	68.11	82.96							
34.40	68.22	82.99							
35.10	68.33	83.02							
35.60	68.44	83.05							
36.10	68.55	83.08							
36.80	68.66	83.11							
37.40	68.77	83.14							
38.80	68.88	83.17							
39.40	68.99	83.20							
39.80	69.10	83.23							
40.20	69.21	83.26							
40.90	69.32	83.29							



ABC	
ABC Thickness (in)	12.50
Average CBR	70
Weighted CBR Average	55
Maximum CBR Value	100
Minimum CBR Value	6

Soil Subgrade	
Average CBR	82
Weighted Average	52
Max CBR	100
Min CBR	19



ABC	
ABC Thickness (in)	8.25
Average CBR	37
Weighted CBR Average	31
Maximum CBR Value	100
Minimum CBR Value	13

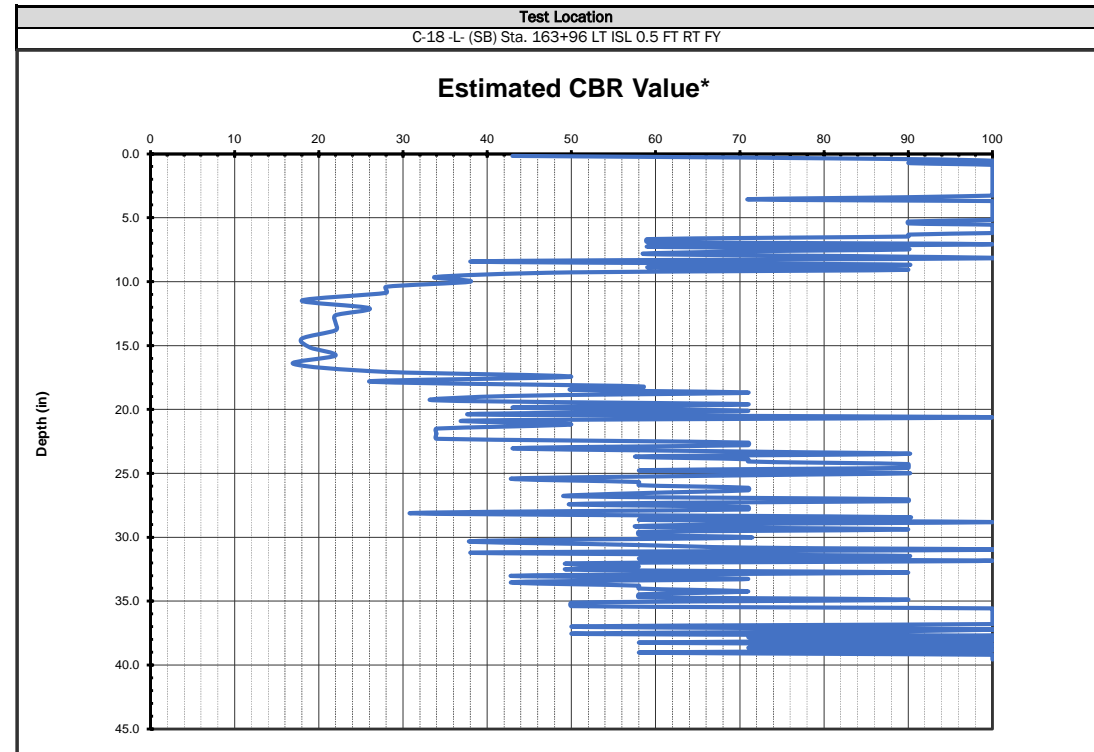
Soil Subgrade	
Average CBR	22
Weighted Average	14
Max CBR	90
Min CBR	4

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



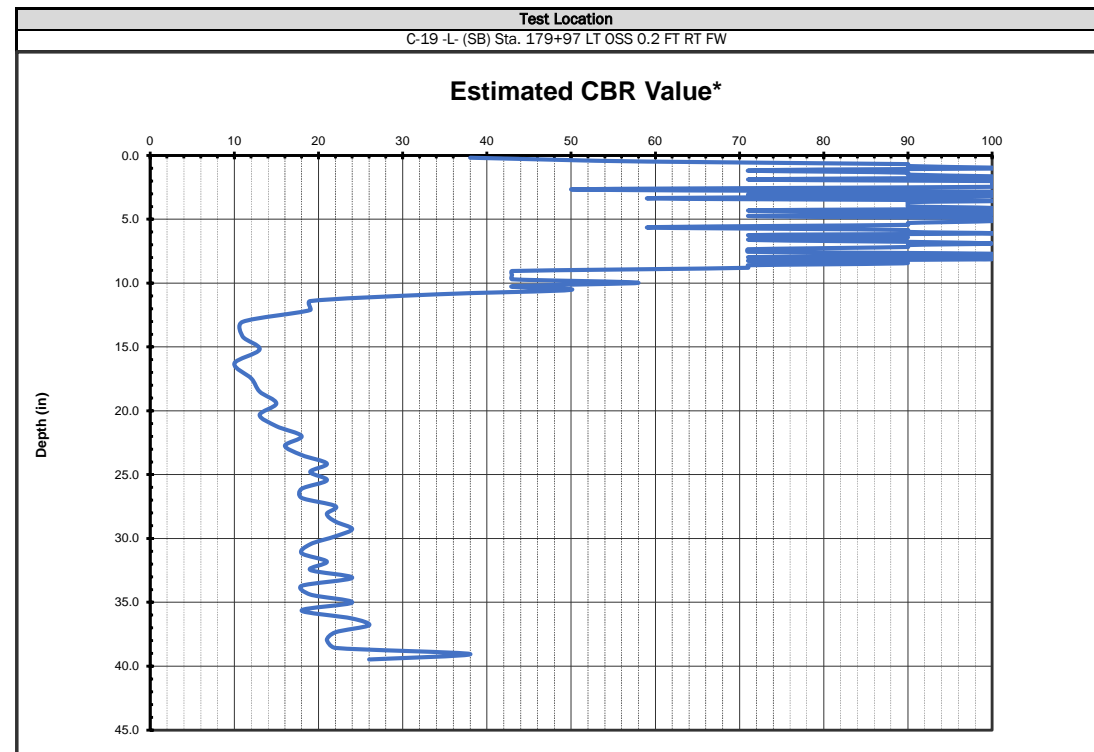


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
				Date Run	Test Location	Date Run					
C-18 -L- (SB) Sta. 163+96 LT ISL 0.5 FT RT FY				11/16 to 11/22/22	C-19 -L- (SB) Sta. 179+97 LT OSS 0.2 FT RT FW	11/16 to 11/22/22					
Type	Test Interval			Datum	Cut/Fill	Type	Test Interval			Datum	Cut/Fill
DCP	Cumulative cm per blow			ABC	5.0 ft Fill	DCP	Cumulative cm per blow			ABC	5.0 ft Fill
0.80	15.00	65.50	95.80			0.90	28.10				
1.20	15.30	66.10	96.30			1.50	29.85				
1.50	15.60	66.60	96.50			1.90	31.60				
1.60	15.80	67.10	96.80			2.30	34.60				
2.00	16.20	67.70	97.40			2.50	37.40				
2.30	16.60	68.40	97.50			2.70	39.80				
2.40	17.20	68.80	97.70			3.20	43.00				
2.55	17.80	69.20	97.90			3.60	45.70				
2.70	18.10	69.90	98.40			4.00	48.20				
2.85	18.70	70.40	98.60			4.30	50.40				
3.00	19.10	70.90	98.80			4.50	52.80				
3.15	19.60	72.00	99.40			5.00	54.90				
3.30	20.20	72.40	99.70			5.20	56.70				
3.45	20.60	73.00	99.90			5.30	58.70				
3.60	20.90	73.30	100.20			5.60	60.50				
3.75	21.80	73.80	100.40			5.90	62.10				
3.90	22.20	74.40	100.60			6.10	63.80				
4.08	22.80	74.80				6.40	65.40				
4.26	23.20	75.40				7.10	67.20				
4.44	23.90	76.00				7.30	69.00				
4.62	24.90	76.50				7.50	70.50				
4.80	25.80	77.40				8.00	72.10				
5.00	27.00	78.00				8.20	73.60				
5.20	28.20	78.50				8.80	75.00				
5.40	30.00	78.80				9.10	76.50				
5.60	31.30	79.70				9.50	78.20				
5.80	32.80	80.10				9.90	80.00				
6.10	34.30	80.70				10.30	81.60				
6.40	35.80	81.00				10.50	83.30				
6.70	37.60	81.70				10.70	84.70				
7.00	39.30	82.30				11.20	86.50				
7.30	40.80	83.00				11.50	88.20				
7.46	42.70	83.40				11.80	89.60				
7.62	43.90	84.20				12.30	91.40				
7.78	44.60	84.70				12.60	92.80				
7.94	45.90	85.50				12.90	94.10				
8.10	46.50	86.10				13.20	95.60				
8.40	47.20	86.70				13.60	97.20				
8.80	47.70	87.20				14.00	98.70				
9.30	48.50	87.80				14.60	99.60				
9.44	49.50	88.40				15.00	100.90				
9.58	50.00	88.80				15.40					
9.72	50.80	89.50				15.60					
9.86	51.30	90.20				16.10					
10.00	52.20	90.40				16.50					
10.20	52.50	90.60				17.00					
10.40	53.40	90.70				17.40					
10.60	54.10	90.82				17.60					
10.80	55.10	90.94				18.00					
11.00	56.10	91.06				18.40					
11.20	57.10	91.18				18.90					
11.40	57.60	91.30				19.40					
11.60	58.10	91.42				19.70					
11.80	58.90	91.54				20.00					
12.00	59.40	91.66				20.50					
12.20	59.80	91.78				20.70					
12.40	60.40	91.90				21.20					
12.60	60.90	92.24				21.60					
12.80	61.40	92.58				22.10					
13.00	61.80	92.92				22.60					
13.20	62.20	93.26				23.40					
13.60	62.60	93.60				24.20					
14.00	63.20	94.30				25.00					
14.10	63.60	94.60				25.60					
14.40	64.10	95.00				26.40					
14.70	64.90	95.70				27.10					



ABC	
ABC Thickness (in)	10.00
Average CBR	92
Weighted CBR Average	82
Maximum CBR Value	100
Minimum CBR Value	34

Soil Subgrade	
Average CBR	69
Weighted Average	53
Max CBR	100
Min CBR	17



ABC	
ABC Thickness (in)	7.25
Average CBR	88
Weighted CBR Average	82
Maximum CBR Value	100
Minimum CBR Value	38

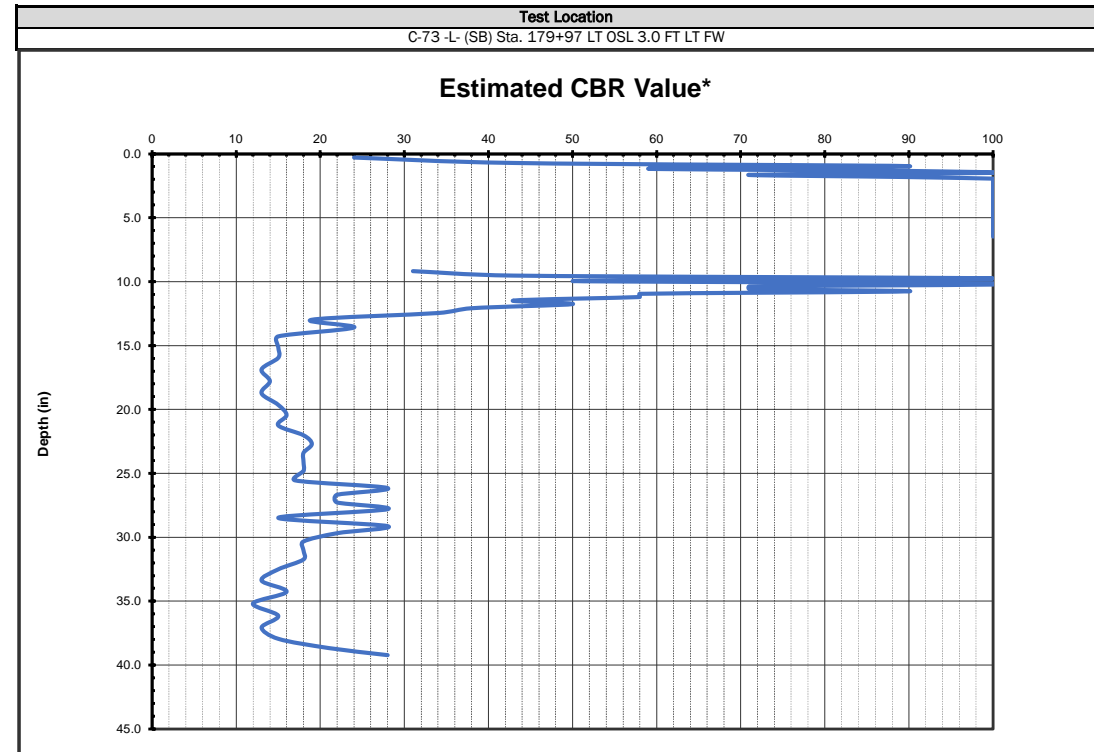
Soil Subgrade	
Average CBR	33
Weighted Average	23
Max CBR	100
Min CBR	10

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



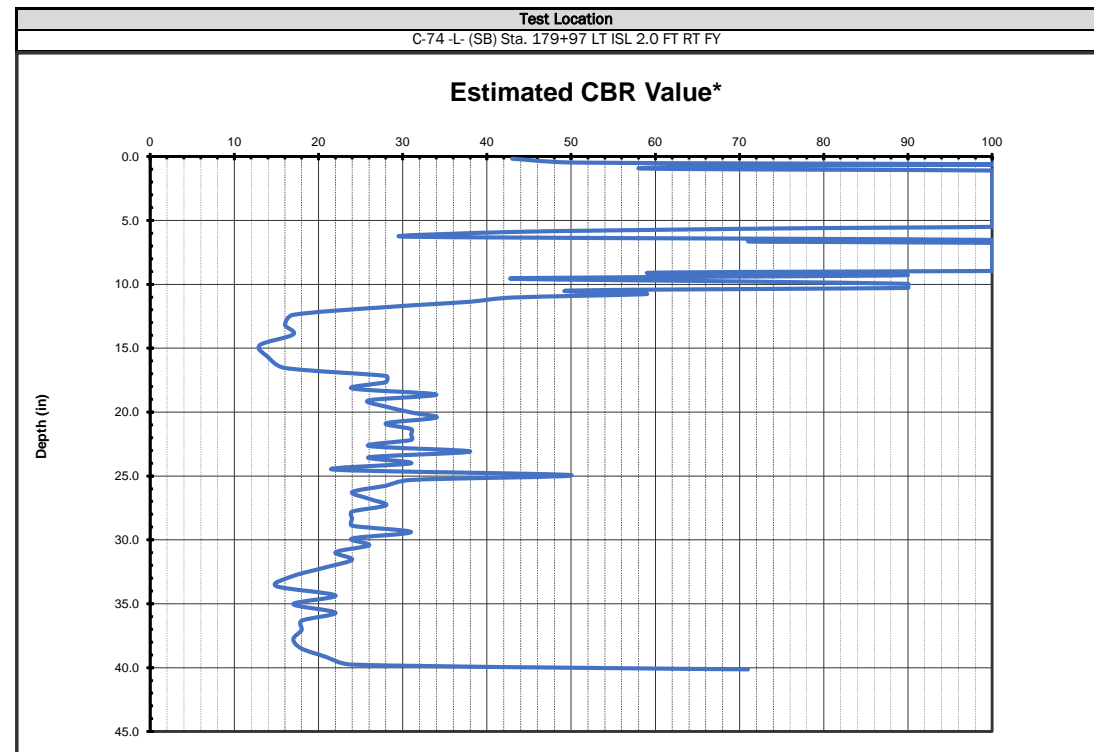


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-73 -L- (SB) Sta. 179+97 LT OSL 3.0 FT LT FW				11/16 to 11/22/22	C-74 -L- (SB) Sta. 179+97 LT ISL 2.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	3.0 ft Fill
1.40	13.84	53.70		0.80	12.12	46.80	
2.20	13.96	55.50		1.50	12.30	47.80	
2.60	14.08	57.30		1.60	12.44	49.10	
3.20	14.20	59.10		2.10	12.58	50.30	
3.60	14.31	61.20		2.70	12.72	51.40	
3.90	14.42	63.60		2.80	12.86	52.40	
4.40	14.53	65.60		3.00	13.00	53.60	
4.80	14.64	68.30		3.20	13.22	54.70	
5.00	14.75	70.50		3.40	13.44	55.80	
5.20	14.86	72.90		3.60	13.66	56.90	
5.38	14.97	75.00		3.70	13.88	58.20	
5.56	15.08	76.60		3.80	14.10	59.10	
5.74	15.19	77.80		4.00	14.60	60.40	
5.92	15.30			4.22	15.40	61.50	
6.10	15.42			4.44	16.50	63.00	
6.28	15.54			4.66	16.60	63.70	
6.46	15.66			4.88	17.10	64.80	
6.64	15.78			5.10	17.20	66.00	
6.82	15.90			5.28	17.40	67.40	
7.00	16.02			5.46	17.70	68.70	
7.22	16.14			5.64	17.90	69.90	
7.44	16.26			5.82	18.00	71.30	
7.66	16.38			6.00	18.10	72.70	
7.88	16.50			6.16	18.30	74.10	
8.10	DCP REF			6.32	18.50	75.20	
8.36	AUGER 6.9			6.48	18.60	76.60	
8.62	TO 22.4 CM			6.64	18.90	77.90	
8.88	0.30			6.80	19.20	79.40	
9.14	1.40			6.90	19.40	80.80	
9.40	2.20			7.00	19.60	82.40	
9.56	2.50			7.10	19.90	84.30	
9.72	3.20			7.20	20.00	86.50	
9.88	3.40			7.30	20.30	88.00	
10.04	3.70			7.52	20.50	89.90	
10.20	4.20			7.74	20.80	91.40	
10.32	4.70			7.96	21.10	93.20	
10.44	5.10			8.18	21.27	95.00	
10.56	5.70			8.40	21.44	96.90	
10.68	6.30			8.50	21.61	98.70	
10.80	7.10			8.60	21.78	100.30	
10.90	7.80			8.70	21.95	101.70	
11.00	8.70			8.80	22.12	102.20	
11.10	9.70			8.90	22.29		
11.20	11.40			9.06	22.46		
11.30	12.80			9.22	22.63		
11.40	14.90			9.38	22.80		
11.50	17.00			9.54	23.40		
11.60	19.20			9.70	23.80		
11.70	21.60			9.80	24.60		
11.80	23.90			9.90	25.10		
11.92	26.40			10.00	25.50		
12.04	28.50			10.10	25.90		
12.16	30.50			10.20	26.30		
12.28	32.60			10.30	27.00		
12.40	34.40			10.40	27.60		
12.52	36.10			10.50	28.40		
12.64	37.90			10.60	29.30		
12.76	39.70			10.70	30.50		
12.88	41.50			10.84	32.40		
13.00	43.40			10.98	34.40		
13.12	44.60			11.12	36.30		
13.24	46.10			11.26	38.70		
13.36	47.60			11.40	41.00		
13.48	48.80			11.58	43.00		
13.60	51.00			11.76	44.20		
13.72	52.20			11.94	45.40		



ABC	
ABC Thickness (in)	8.25
Average CBR	97
Weighted CBR Average	88
Maximum CBR Value	100
Minimum CBR Value	24

Soil Subgrade	
Average CBR	31
Weighted Average	21
Max CBR	100
Min CBR	12



ABC	
ABC Thickness (in)	11.00
Average CBR	95
Weighted CBR Average	84
Maximum CBR Value	100
Minimum CBR Value	31

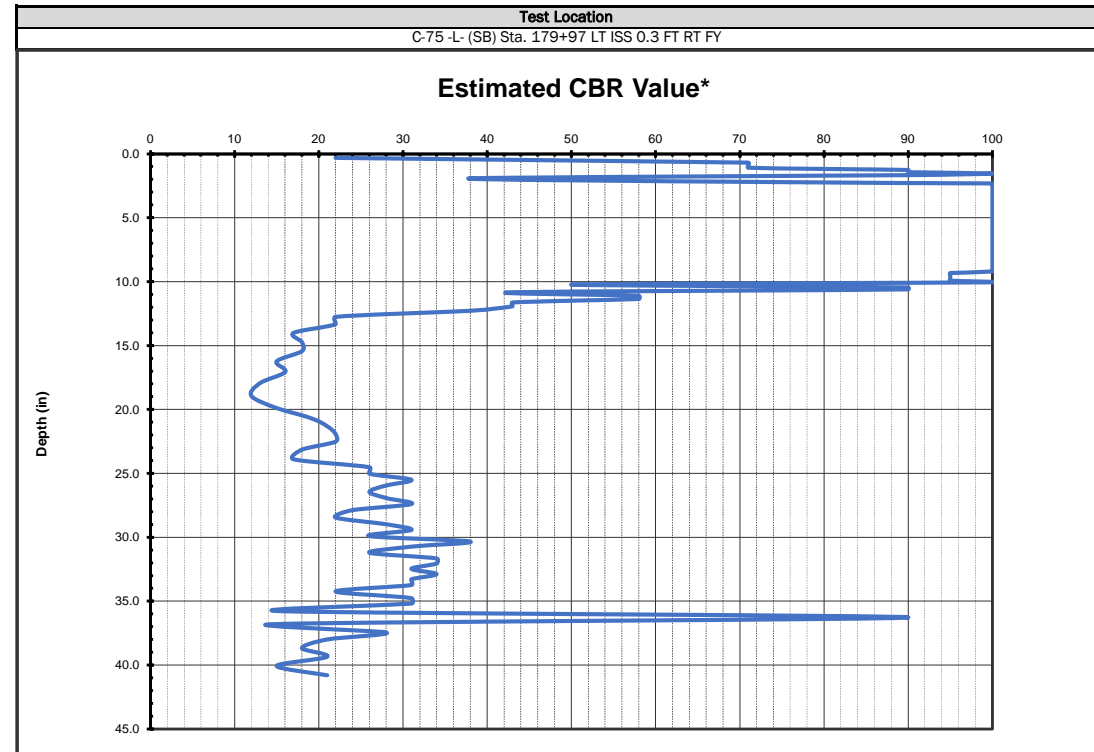
Soil Subgrade	
Average CBR	26
Weighted Average	24
Max CBR	71
Min CBR	13

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



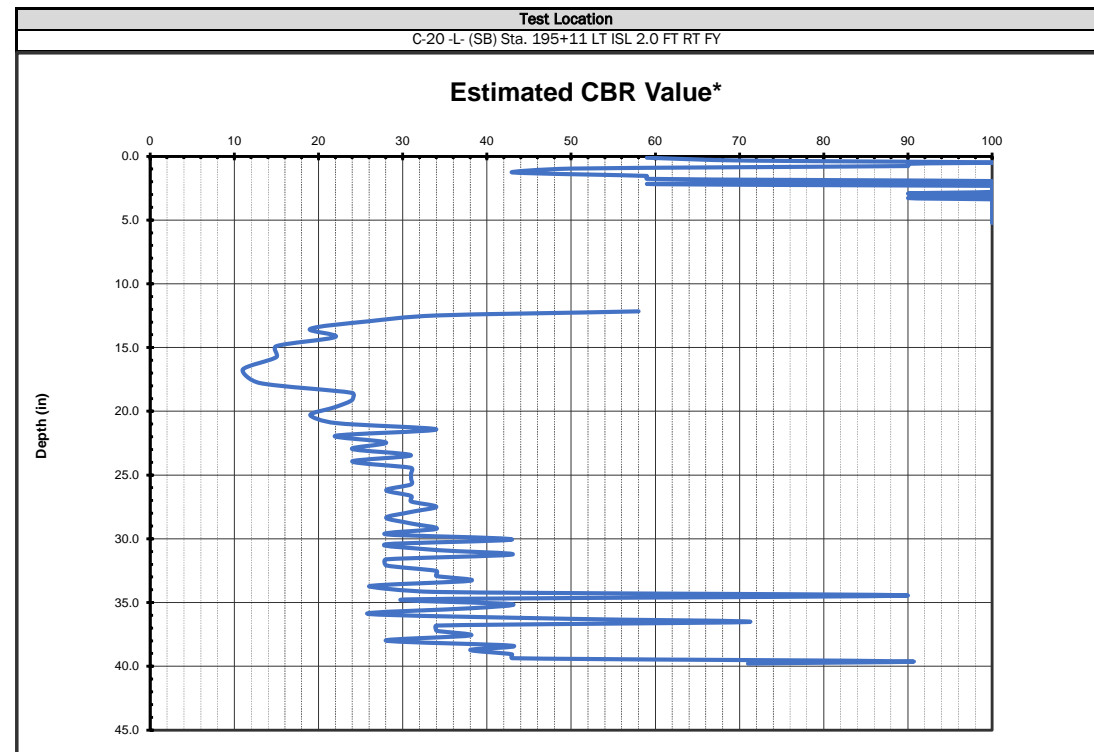


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
				11/16 to 11/22/22	C-20 -L- (SB) Sta. 195+11 LT ISL 2.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	3.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.50	16.20	62.90		0.60	12.88	68.50	
2.00	16.40	64.20		1.10	12.95	69.40	
2.50	16.60	65.30		1.30	13.02	70.20	
3.00	16.80	66.50		1.70	13.09	71.00	
3.40	17.00	67.80		2.10	13.16	71.40	
3.80	17.20	69.00		2.80	13.23	71.90	
4.00	17.40	70.10		3.60	13.30		
4.40	17.60	71.50		4.20	DCP REF		
5.30	17.80	73.00		4.80	AUGER 58.1		
5.80	18.00	74.20		5.00	TO 20.4 CM		
5.90	18.20	75.30		5.20	1.20		
6.10	18.40	76.60		5.80	1.80		
6.30	18.60	77.50		6.00	2.80		
6.60	18.80	78.60		6.30	4.10		
6.80	19.00	79.90		6.60	5.80		
7.00	19.16	80.90		6.70	7.30		
7.16	19.32	81.90		7.00	9.50		
7.32	19.48	83.00		7.20	11.70		
7.48	19.64	84.00		7.60	14.50		
7.64	19.80	85.10		7.70	17.00		
7.80	19.98	86.20		7.80	18.40		
7.94	20.16	87.70		8.10	19.80		
8.08	20.34	88.80		8.50	21.30		
8.22	20.52	89.90		8.60	23.00		
8.36	20.70	91.90		8.70	24.50		
8.50	20.96	92.30		8.80	25.50		
8.70	21.22	94.50		8.90	27.00		
8.90	21.48	95.70		9.00	28.20		
9.10	21.74	97.30		9.10	29.60		
9.30	22.00	99.10		9.20	30.70		
9.50	22.30	100.70		9.30	32.10		
9.70	22.60	102.80		9.40	33.20		
9.90	22.90	104.40		9.50	34.30		
10.10	23.20			9.64	35.40		
10.30	23.50			9.78	36.50		
10.50	23.88			9.92	37.70		
10.70	24.26			10.06	38.80		
10.90	24.64			10.20	39.90		
11.10	25.02			10.34	40.90		
11.30	25.40			10.48	42.00		
11.50	25.60			10.62	43.20		
11.64	26.30			10.76	44.30		
11.78	26.70			10.90	45.30		
11.92	27.10			10.98	46.50		
12.06	27.90			11.06	47.30		
12.20	28.50			11.14	48.50		
12.40	29.10			11.22	49.50		
12.60	29.90			11.30	50.30		
12.80	30.70			11.38	51.50		
13.00	31.60			11.46	52.70		
13.20	33.10			11.54	53.70		
13.40	34.60			11.62	54.70		
13.60	36.50			11.70	55.60		
13.80	38.30			11.79	56.90		
14.00	40.10			11.88	57.90		
14.20	42.30			11.97	58.30		
14.36	44.30			12.06	59.40		
14.52	46.80			12.15	60.20		
14.68	49.40			12.24	61.10		
14.84	51.60			12.33	62.40		
15.00	53.30			12.42	63.10		
15.20	54.90			12.51	63.60		
15.40	56.40			12.60	64.60		
15.60	57.90			12.67	65.60		
15.80	59.70			12.74	66.50		
16.00	61.60			12.81	67.70		



ABC	
ABC Thickness (in)	10.00
Average CBR	97
Weighted CBR Average	90
Maximum CBR Value	100
Minimum CBR Value	22

Soil Subgrade	
Average CBR	31
Weighted Average	25
Max CBR	100
Min CBR	12



ABC	
ABC Thickness (in)	9.75
Average CBR	94
Weighted CBR Average	26
Maximum CBR Value	100
Minimum CBR Value	1

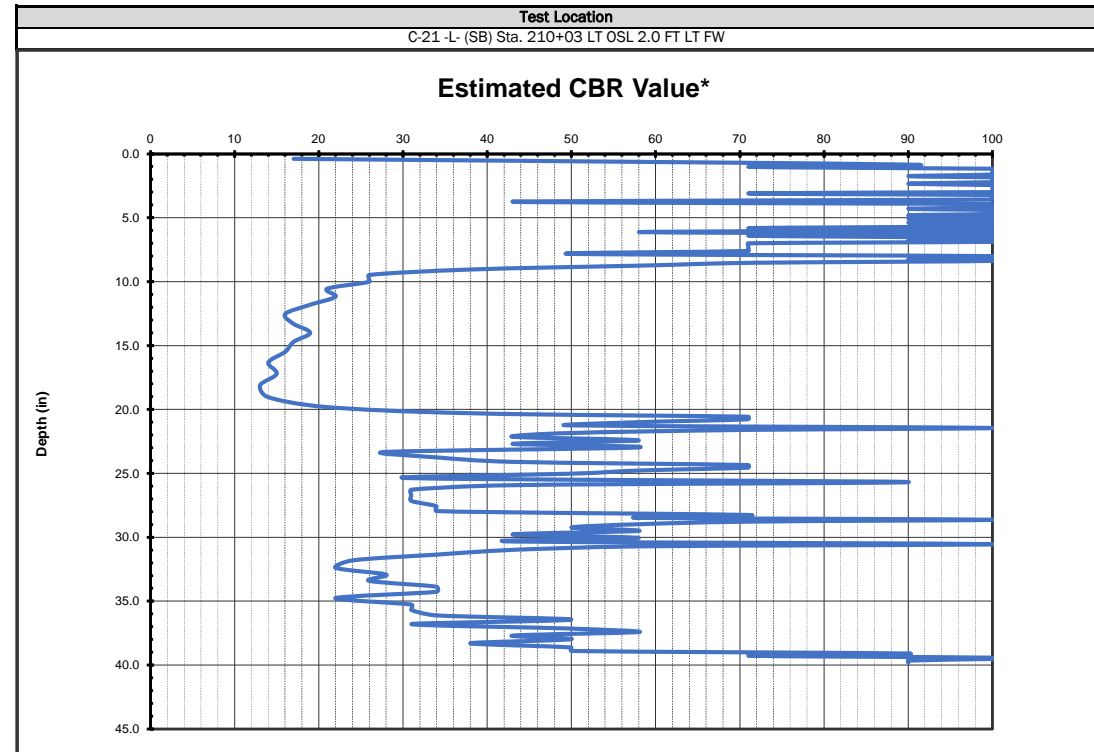
Soil Subgrade	
Average CBR	34
Weighted Average	29
Max CBR	90
Min CBR	11

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



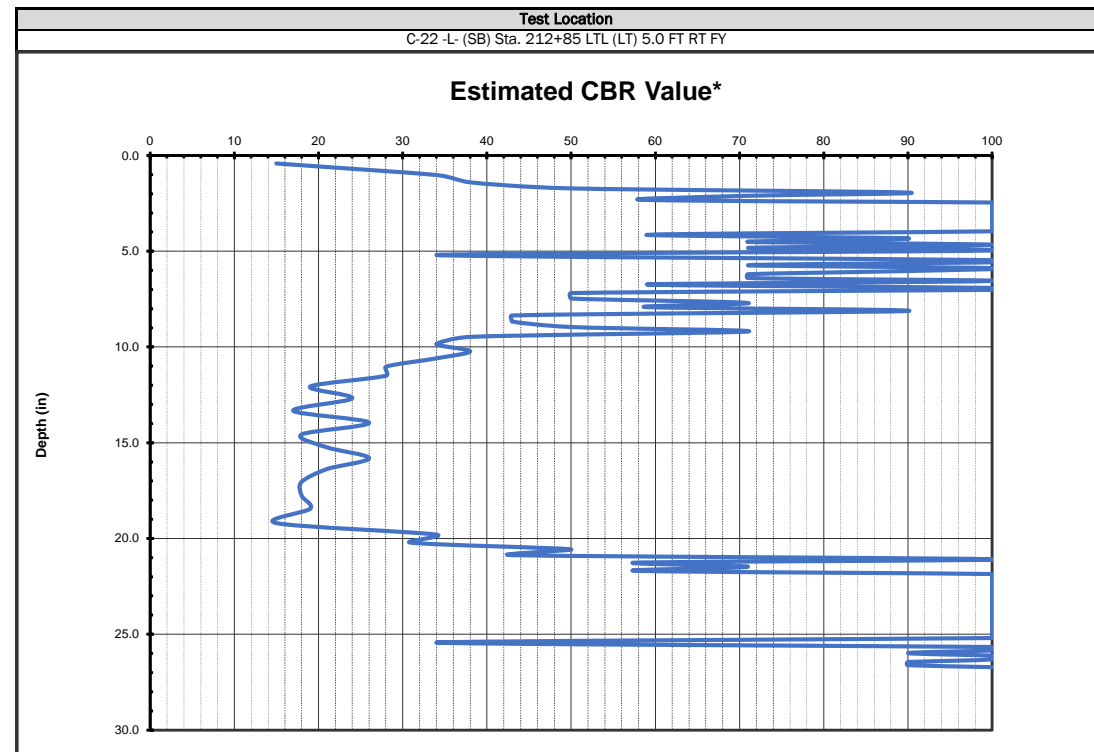


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-21 -L- (SB) Sta. 210+03 LT OSL 2.0 FT LT FW				11/16 to 11/22/22	C-22 -L- (SB) Sta. 212+85 LTL (LT) 5.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.90	20.40	85.50		2.10	46.00	65.30	
2.30	20.70	86.50		3.10	47.70	65.50	
2.80	21.10	87.50		4.00	49.80	65.80	
3.10	21.40	89.00		4.70	50.80	66.20	
3.40	21.90	90.10		5.10	51.90	66.50	
3.70	22.50	91.20		5.60	52.60	66.70	
3.80	23.40	92.20		6.20	53.40	67.00	
4.00	24.70	92.90		6.30	53.70	67.40	
4.20	26.00	94.00		6.52	54.30	67.80	
4.60	27.60	94.70		6.74	54.80	67.90	
4.70	29.10	95.30		6.96	55.40	DCP REF	
5.00	30.80	96.10		7.18	55.60	SO/LOP	
5.30	32.80	96.80		7.40	55.80		
5.50	34.70	97.70		7.62	56.00		
5.70	36.40	98.40		7.84	56.10		
6.10	38.30	99.10		8.06	56.22		
6.30	40.30	99.50		8.28	56.34		
6.60	42.60	100.00		8.50	56.46		
6.70	44.80	100.20		8.78	56.58		
6.90	47.20	100.50		9.06	56.70		
7.10	49.50	100.90		9.34	56.82		
7.20	51.10	101.30		9.62	56.94		
7.50	52.00			9.90	57.06		
7.60	52.50			10.20	57.18		
8.10	53.00			10.80	57.30		
8.20	53.60			11.20	57.42		
8.30	54.30			11.70	57.54		
8.60	54.60			12.00	57.66		
8.70	55.10			12.50	57.78		
8.90	55.80			12.70	57.90		
9.00	56.60			13.70	58.02		
9.10	57.20			14.00	58.14		
9.90	58.00			14.30	58.26		
10.00	58.60			14.80	58.38		
10.30	59.80			15.10	58.50		
10.40	60.80			15.50	58.69		
10.60	61.60			16.00	58.87		
10.70	62.10			16.50	59.06		
11.10	62.60			16.80	59.25		
11.20	63.20			17.40	59.43		
11.50	63.90			17.70	59.62		
11.80	65.00			17.90	59.81		
12.00	65.40			18.60	59.99		
12.40	66.20			19.30	60.18		
12.60	67.30			19.80	60.37		
13.00	68.40			20.40	60.55		
13.20	69.50			20.80	60.74		
13.40	70.50			21.60	60.93		
13.80	71.50			22.40	61.11		
14.00	72.00			23.10	61.30		
14.30	72.60			23.60	61.49		
14.50	72.80			24.50	61.67		
15.00	73.30			25.50	61.86		
15.20	73.90			26.40	62.05		
15.80	74.60			27.40	62.23		
16.00	75.20			28.60	62.42		
16.50	76.00			29.80	62.61		
16.80	76.60			31.50	62.79		
17.00	77.40			32.90	62.98		
17.40	77.70			34.80	63.17		
17.50	78.30			36.10	63.35		
18.00	79.10			37.90	63.54		
18.50	80.10			39.50	63.73		
19.00	81.50			40.80	63.91		
19.50	83.00			42.40	64.10		
20.20	84.20			44.20	65.10		



ABC	
ABC Thickness (in)	5.50
Average CBR	95
Weighted CBR Average	81
Maximum CBR Value	100
Minimum CBR Value	17

Soil Subgrade	
Average CBR	54
Weighted Average	39
Max CBR	100
Min CBR	13



ABC	
ABC Thickness (in)	8.00
Average CBR	82
Weighted CBR Average	67
Maximum CBR Value	100
Minimum CBR Value	15

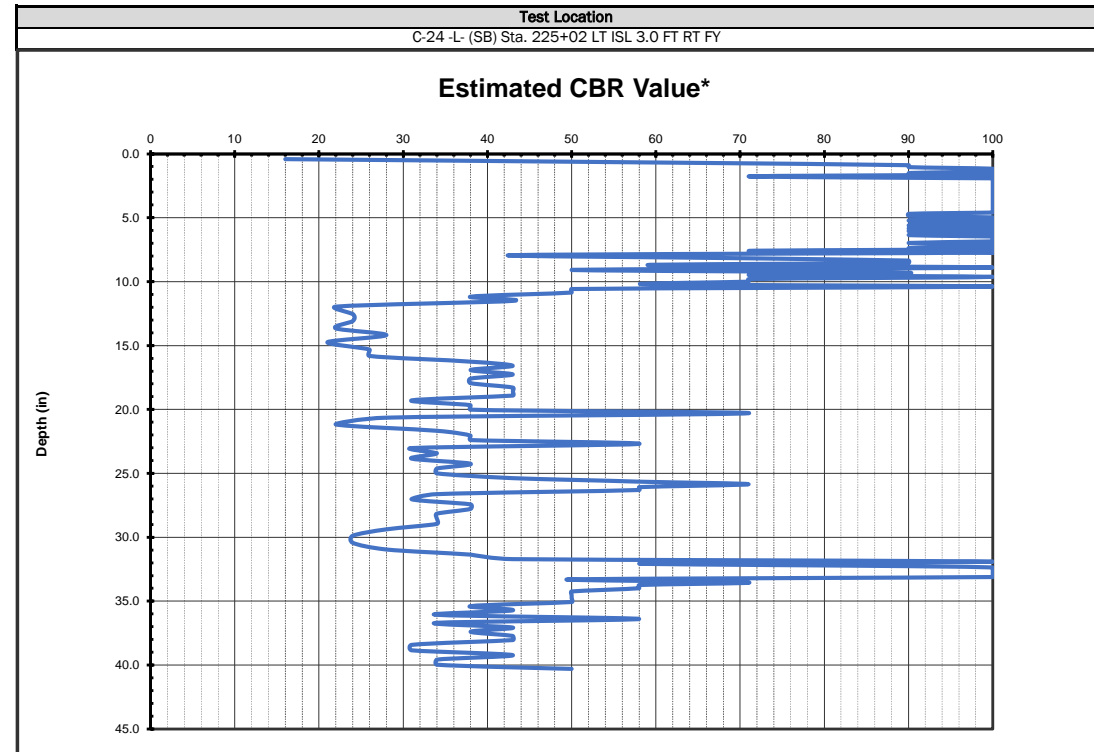
Soil Subgrade	
Average CBR	79
Weighted Average	47
Max CBR	100
Min CBR	15

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



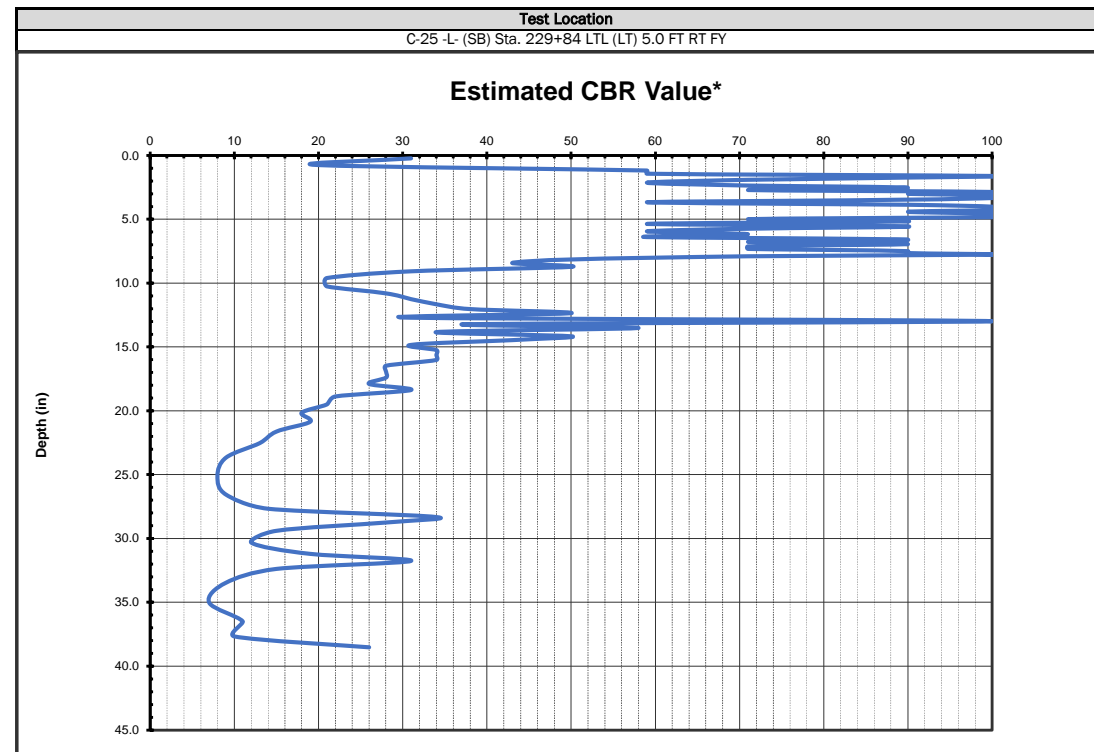


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
C-24 -L- (SB) Sta. 225+02 LT ISL 3.0 FT RT FY				11/16 to 11/22/22	C-25 -L- (SB) Sta. 229+84 LTL (LT) 5.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	6.0 ft Fill	DCP	Cumulative cm per blow	ABC	7.0 ft Fill
2.00	15.90	64.80		1.10	41.20		
2.40	16.30	65.40		2.70	42.40		
2.80	16.50	65.90		3.30	43.60		
3.00	16.70	66.50		3.90	44.80		
3.30	17.00	67.10		4.20	46.10		
3.60	17.20	68.10		4.60	47.20		
4.00	17.50	69.20		5.10	48.70		
4.20	17.90	70.10		5.70	50.30		
4.70	18.00	71.00		6.20	52.10		
5.00	18.30	72.00		6.60	53.80		
5.10	18.50	73.00		7.10	56.00		
5.40	18.90	74.00		7.40	58.40		
5.48	19.00	75.20		7.80	61.80		
5.56	19.50	76.60		8.00	65.80		
5.64	19.70	78.00		8.30	69.10		
5.72	20.50	79.20		8.60	71.40		
5.80	21.00	80.10		9.00	72.40		
5.88	21.40	80.90		9.60	73.60		
5.96	21.80	81.10		10.00	75.70		
6.04	22.40	81.70		10.30	78.40		
6.12	22.70	82.10		10.60	80.10		
6.20	23.40	82.20		10.70	81.20		
6.42	23.80	82.40		11.00	83.30		
6.64	24.30	82.58		11.40	86.60		
6.86	24.60	82.76		11.70	91.30		
7.08	25.10	82.94		11.90	94.10		
7.30	25.60	83.12		12.10	97.20		
7.50	26.20	83.30		12.40	98.50		
7.70	26.50	83.48		12.90			
7.90	27.20	83.66		13.30			
8.10	27.90	83.84		13.90			
8.30	28.80	84.02		14.30			
8.50	29.60	84.20		14.80			
8.70	31.10	84.90		15.40			
8.90	32.50	85.40		15.90			
9.10	33.90	86.00		16.50			
9.30	35.40	86.60		16.90			
9.54	36.60	87.30		17.40			
9.78	38.20	88.00		17.80			
10.02	39.50	88.70		18.30			
10.26	40.80	89.40		18.80			
10.50	41.70	90.30		19.20			
10.60	42.50	91.10		19.60			
10.70	43.40	92.10		19.80			
10.80	44.20	92.70		20.30			
10.90	45.10	93.70		21.00			
11.00	46.00	94.50		21.80			
11.14	46.80	95.40		22.50			
11.28	47.60	96.20		23.60			
11.42	48.40	97.00		25.20			
11.56	49.50	98.10		26.80			
11.70	50.40	99.20		28.00			
12.10	51.30	100.00		29.10			
12.50	51.80	101.00		30.10			
12.70	53.00	102.00		31.00			
13.00	54.50	102.70		31.70			
13.40	55.50			32.80			
13.70	56.40			33.10			
13.80	57.30			34.00			
14.00	57.90			34.60			
14.40	59.00			35.60			
14.60	60.00			36.30			
15.00	61.10			37.10			
15.10	62.00			38.20			
15.50	63.00			39.20			
15.70	64.00			40.20			



ABC	
ABC Thickness (in)	10.25
Average CBR	94
Weighted CBR Average	83
Maximum CBR Value	100
Minimum CBR Value	16

Soil Subgrade	
Average CBR	49
Weighted Average	39
Max CBR	100
Min CBR	21



ABC	
ABC Thickness (in)	9.00
Average CBR	79
Weighted CBR Average	70
Maximum CBR Value	100
Minimum CBR Value	20

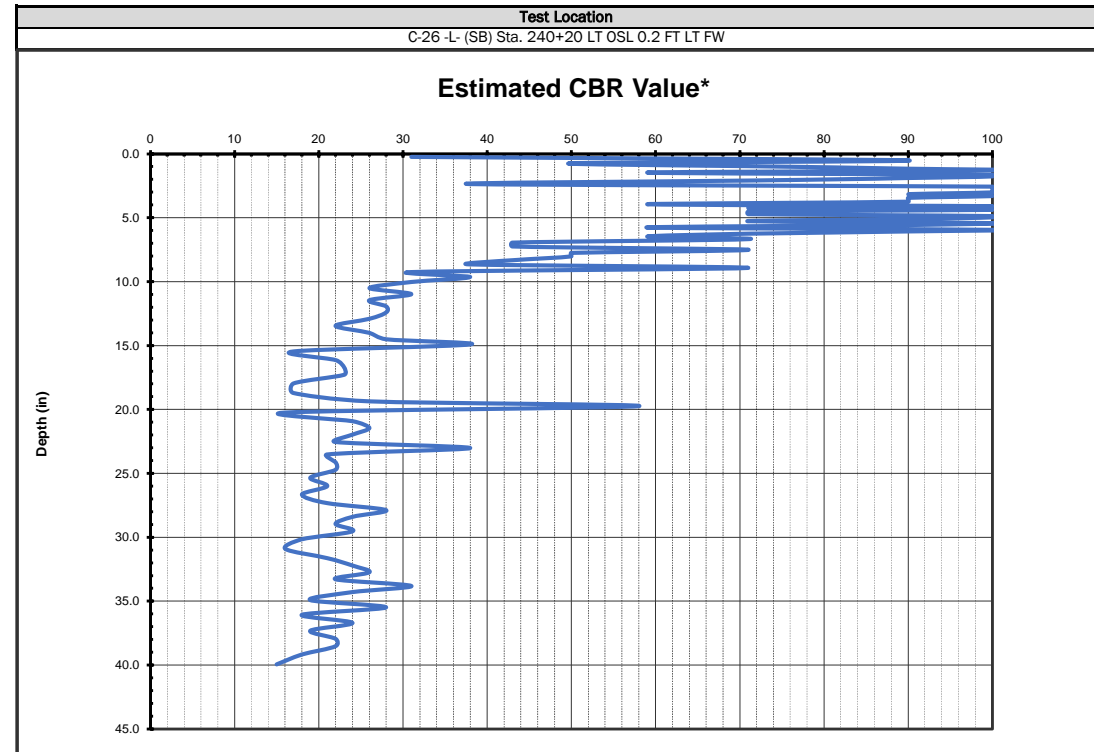
Soil Subgrade	
Average CBR	27
Weighted Average	20
Max CBR	100
Min CBR	7

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



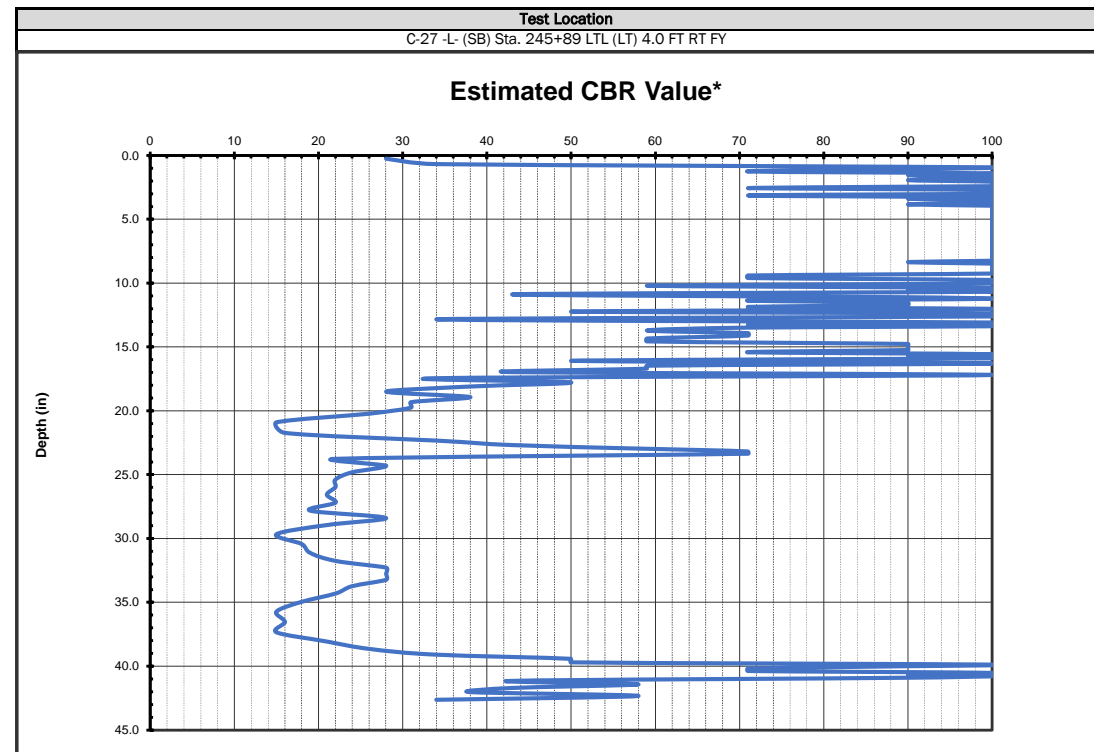


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-26 -L- (SB) Sta. 240+20 LT OSL 0.2 FT LT FW				11/16 to 11/22/22	C-27 -L- (SB) Sta. 245+89 LTL (LT) 4.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	8.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.10	48.50			1.20	15.86	34.00	101.80
1.50	49.80			2.20	16.10	34.50	102.30
2.20	50.40			2.50	16.32	35.10	102.80
2.70	52.40			2.90	16.54	35.60	103.10
3.10	53.80			3.40	16.76	36.10	103.50
3.40	55.10			3.70	16.98	36.70	103.70
4.00	56.50			4.10	17.20	37.30	104.10
4.30	58.00			4.40	17.32	37.70	104.90
4.60	58.90			4.70	17.44	38.10	105.50
5.00	60.50			5.10	17.56	38.50	106.30
5.50	62.00			5.30	17.68	38.90	107.20
6.40	63.50			5.60	17.80	39.40	107.80
6.60	65.20			5.80	18.00	39.60	108.80
6.90	66.80			6.00	18.20	40.00	
7.20	68.60			6.20	18.40	40.20	
7.50	70.20			6.70	18.60	40.50	
7.80	71.40			7.00	18.80	41.20	
8.20	72.80			7.20	19.06	41.50	
8.50	74.30			7.50	19.32	42.10	
8.90	75.70			7.70	19.58	42.70	
9.30	77.50			8.20	19.84	43.50	
9.70	79.50			8.40	20.10	43.80	
10.30	81.10			8.80	20.28	44.80	
10.50	82.50			8.90	20.46	45.50	
11.00	83.80			9.20	20.64	46.40	
11.20	85.30			9.50	20.82	47.60	
11.70	86.40			9.90	21.00	48.50	
12.20	87.80			10.10	21.40	49.60	
12.50	89.50			10.30	21.60	50.70	
12.70	90.70			10.60	21.80	52.00	
13.10	92.50			10.80	21.96	54.20	
13.60	93.90			11.00	22.12	56.20	
13.90	95.60			11.06	22.28	57.20	
14.30	97.10			11.12	22.44	58.00	
14.90	98.60			11.18	22.60	58.60	
15.20	100.40			11.24	22.80	59.10	
15.60	102.50			11.30	23.00	59.60	
16.10				11.36	23.20	61.10	
16.70				11.42	23.40	62.30	
17.20				11.48	23.60	63.70	
18.00				11.54	24.10	65.20	
18.80				11.60	24.60	66.70	
19.30				11.74	24.90	68.30	
20.00				11.88	25.20	69.80	
20.70				12.02	25.30	71.50	
21.50				12.16	25.60	72.70	
22.40				12.30	26.20	74.30	
22.90				12.38	26.50	76.40	
24.00				12.46	26.90	78.20	
24.90				12.54	27.00	79.90	
26.00				12.62	27.20	81.40	
27.30				12.70	28.00	82.60	
28.40				12.92	28.40	83.80	
29.70				13.14	28.60	85.00	
30.90				13.36	29.10	86.40	
32.10				13.58	29.50	87.90	
33.40				13.80	29.90	89.70	
34.90				13.98	30.40	91.80	
36.20				14.17	30.70	93.80	
37.40				14.35	31.40	95.90	
38.30				14.53	31.50	97.50	
40.20				14.72	31.90	98.80	
41.70				14.90	32.10	99.80	
43.15				15.14	33.10	100.50	
44.60				15.38	33.40	101.20	
46.55				15.62	33.90	101.40	



ABC	
ABC Thickness (in)	9.25
Average CBR	77
Weighted CBR Average	67
Maximum CBR Value	100
Minimum CBR Value	31

Soil Subgrade	
Average CBR	24
Weighted Average	23
Max CBR	58
Min CBR	15



ABC	
ABC Thickness (in)	18.50
Average CBR	91
Weighted CBR Average	80
Maximum CBR Value	100
Minimum CBR Value	28

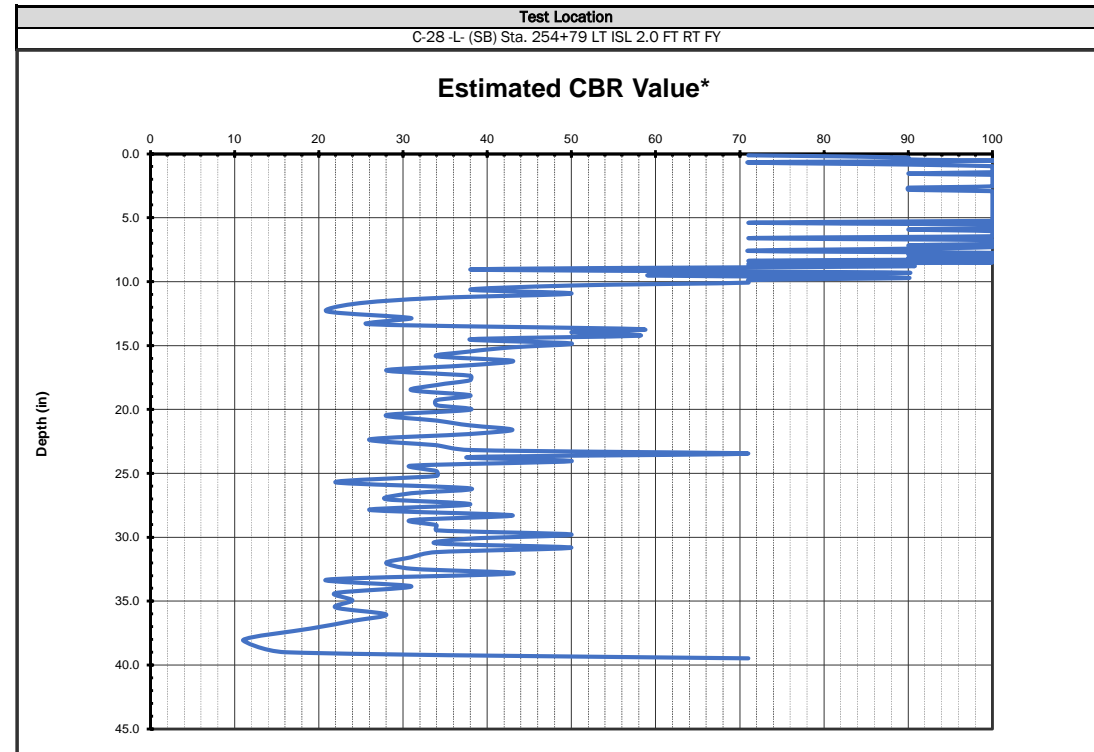
Soil Subgrade	
Average CBR	39
Weighted Average	29
Max CBR	100
Min CBR	15

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



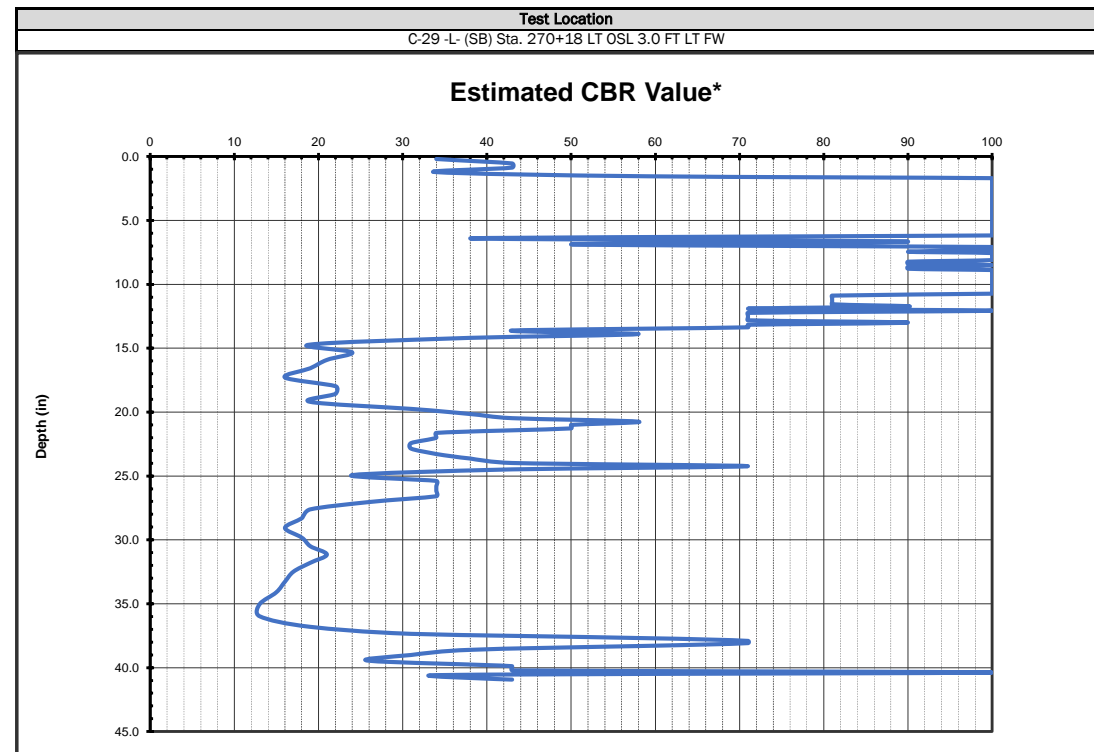


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-28 -L- (SB) Sta. 254+79 LT ISL 2.0 FT RT FY				11/16 to 11/22/22	C-29 -L- (SB) Sta. 270+18 LT OSL 3.0 FT LT FW	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
0.50	14.70	59.30		1.00	19.10	51.60	
0.90	14.80	59.80		1.80	19.20	52.40	
1.30	15.20	60.70		2.60	19.50	53.00	
1.40	15.40	61.40		3.60	19.80	53.70	
1.90	15.60	62.50		4.20	19.90	54.40	
2.30	15.90	63.50		4.37	20.20	55.40	
2.60	16.20	64.50		4.54	20.40	56.40	
2.80	16.50	66.00		4.71	20.50	57.50	
3.10	17.00	66.90		4.88	20.70	58.60	
3.40	17.20	68.00		5.05	21.10	59.60	
3.50	17.50	69.20		5.22	21.50	60.50	
3.70	17.70	70.10		5.39	21.70	61.30	
4.10	18.00	71.40		5.56	22.10	61.80	
4.20	18.40	72.20		5.73	22.50	62.60	
4.50	18.60	73.30		5.90	22.58	64.00	
4.60	19.00	74.30		6.22	22.66	65.00	
4.90	19.50	75.30		6.54	22.74	66.00	
5.10	19.80	76.00		6.86	22.82	67.00	
5.40	20.20	76.90		7.18	22.90	68.00	
5.50	20.40	77.90		7.50	22.98	69.30	
5.80	20.80	78.60		7.68	23.06	71.00	
6.00	21.00	79.60		7.86	23.14	72.80	
6.10	21.50	80.70		8.04	23.22	74.80	
6.40	21.60	81.90		8.22	23.30	76.60	
6.50	22.10	83.00		8.40	23.56	78.30	
6.90	22.50	83.80		8.54	23.82	79.90	
7.30	23.40	85.40		8.68	24.08	81.60	
7.40	23.80	86.50		8.82	24.34	83.50	
7.50	24.40	88.00		8.96	24.60	85.50	
7.80	24.80	89.40		9.10	24.82	87.70	
8.00	25.30	90.90		9.30	25.04	90.20	
8.20	25.80	92.10		9.50	25.26	92.60	
8.30	26.50	93.50		9.70	25.48	94.30	
8.48	27.40	95.20		9.90	25.70	95.40	
8.66	28.10	98.00		10.10	26.04	96.00	
8.84	29.10	100.00		10.42	26.38	96.50	
9.02	30.50	100.50		10.74	26.72	97.00	
9.20	32.10			11.06	27.06	97.60	
9.30	33.20			11.38	27.40	98.50	
9.40	34.50			11.70	27.84	99.60	
9.50	35.10			11.98	28.28	100.90	
9.60	35.80			12.26	28.72	101.70	
9.70	36.40			12.54	29.16	102.50	
9.84	37.30			12.82	29.60	102.60	
9.98	38.00			13.10	30.00	103.60	
10.12	38.80			13.20	30.50	104.40	
10.26	39.70			13.50	30.80		
10.40	40.70			13.70	31.30		
10.58	41.50			14.00	31.80		
10.76	42.40			14.14	32.30		
10.94	43.60			14.28	32.80		
11.12	44.50			14.42	33.20		
11.30	45.40			14.56	33.70		
11.48	46.40			14.70	34.20		
11.66	47.50			14.92	35.00		
11.84	48.40			15.14	35.60		
12.02	49.40			15.36	36.50		
12.20	50.40			15.58	38.20		
12.44	51.30			15.80	39.60		
12.68	52.50			16.70	41.20		
12.92	53.50			17.10	42.90		
13.16	54.40			17.80	44.90		
13.40	55.20			18.10	46.40		
13.90	56.10			18.30	47.90		
14.10	57.40			18.40	49.60		
14.40	58.40			18.70	50.70		



ABC	
ABC Thickness (in)	10.00
Average CBR	95
Weighted CBR Average	90
Maximum CBR Value	100
Minimum CBR Value	38

Soil Subgrade	
Average CBR	36
Weighted Average	33
Max CBR	71
Min CBR	11



ABC	
ABC Thickness (in)	9.00
Average CBR	95
Weighted CBR Average	84
Maximum CBR Value	100
Minimum CBR Value	34

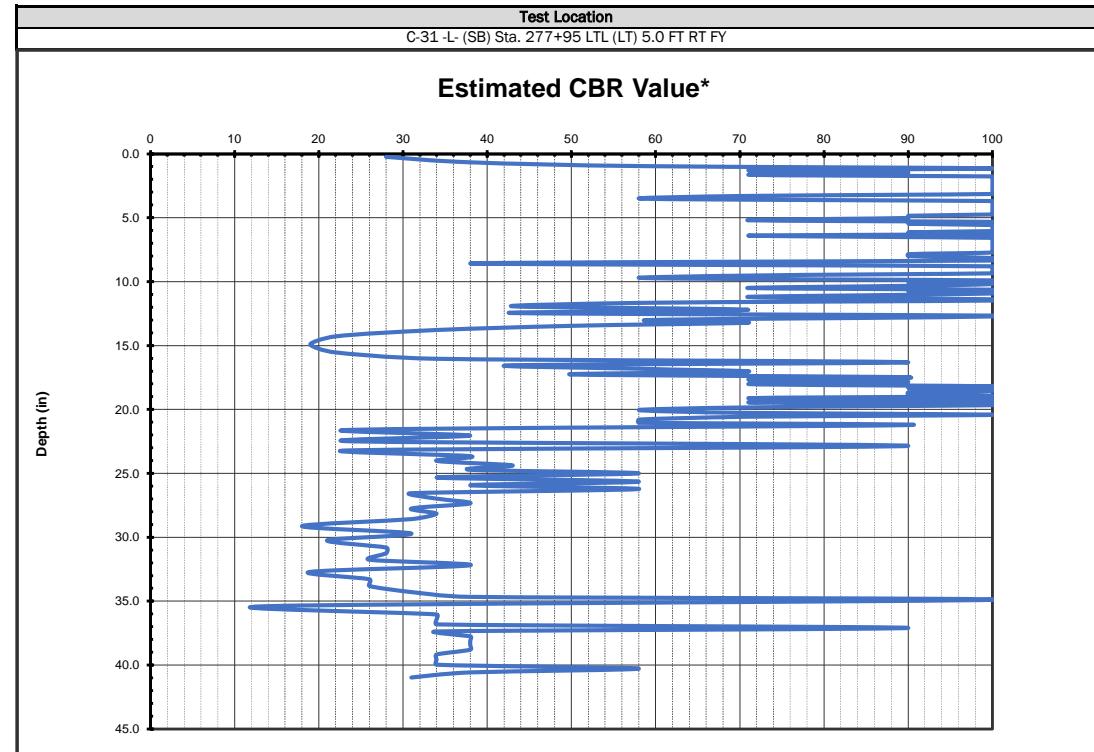
Soil Subgrade	
Average CBR	56
Weighted Average	36
Max CBR	100
Min CBR	13

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



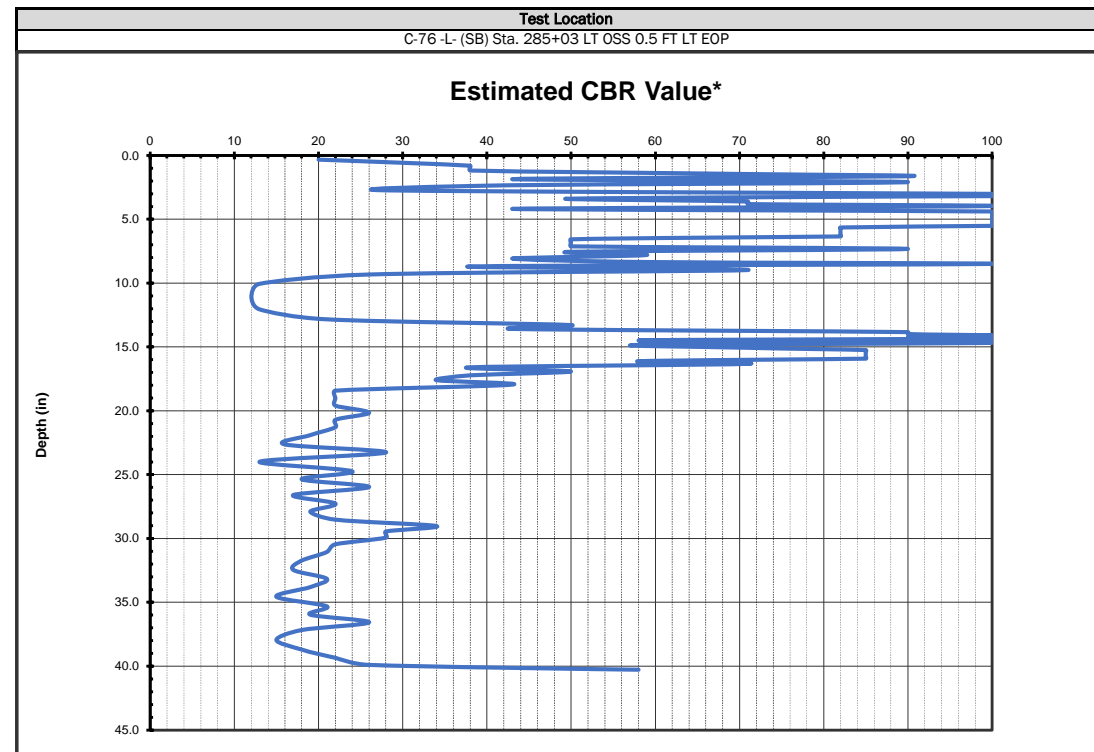


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
C-31 -L- (SB) Sta. 277+95 LTL (LT) 5.0 FT RT FY				11/16 to 11/22/22	C-76 -L- (SB) Sta. 285+03 LT OSS 0.5 FT LT EOP	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.20	16.50	47.00	104.60	1.60	40.60		
2.10	16.80	47.20		2.50	41.20		
2.70	17.10	47.60		3.40	41.70		
3.00	17.40	48.00		3.90	42.60		
3.50	17.60	48.30		4.30	43.30		
3.90	17.80	48.80		5.10	44.20		
4.40	18.10	49.10		5.50	45.20		
4.55	18.40	49.60		6.30	46.00		
4.70	18.60	49.80		7.50	47.50		
4.85	18.80	50.10		7.80	49.00		
5.00	19.10	50.60		7.90	50.50		
5.15	19.20	51.20		8.20	51.80		
5.30	19.50	51.70		8.90	53.30		
5.45	19.70	52.00		9.40	54.80		
5.60	20.10	52.50		9.90	56.50		
5.75	20.50	53.10		10.20	58.50		
5.90	20.80	53.70		11.00	59.70		
5.97	21.10	54.10		11.20	62.10		
6.04	21.30	55.50		11.50	63.50		
6.11	22.20	56.40		11.76	65.30		
6.18	22.40	57.80		12.02	66.60		
6.25	22.70	58.20		12.28	68.50		
6.32	23.00	59.60		12.54	70.00		
6.39	23.30	60.50		12.80	71.70		
6.46	23.60	61.50		13.06	73.20		
6.53	23.90	62.30		13.32	74.20		
6.60	24.40	63.20		13.58	75.40		
6.80	25.00	63.80		13.84	76.60		
7.00	25.30	64.80		14.10	78.10		
7.20	25.70	65.40		14.54	79.70		
7.40	26.00	66.30		14.98	81.50		
7.60	26.40	66.90		15.42	83.40		
7.80	26.90	68.00		15.86	85.00		
8.10	27.10	69.00		16.30	86.70		
8.60	27.50	69.90		17.00	88.90		
9.20	27.70	71.00		17.70	90.50		
9.50	27.80	72.00		18.40	92.20		
9.70	28.20	73.10		18.80	93.50		
9.84	28.70	74.90		19.50	95.30		
9.98	29.00	76.00		20.10	97.40		
10.12	29.30	77.60		20.90	99.20		
10.26	29.90	78.80		21.50	100.70		
10.40	30.70	80.00		21.60	102.00		
10.54	31.20	81.30		22.50	102.60		
10.68	32.00	82.20		23.00			
10.82	32.30	83.90		24.30			
10.96	32.70	85.20		26.70			
11.10	33.30	86.50		29.40			
11.30	33.80	87.60		31.80			
11.50	34.50	88.50		33.40			
11.70	35.50	88.70		34.10			
11.90	37.00	91.00		34.90			
12.10	38.70	92.00		35.30			
12.50	40.20	93.00		35.70			
12.90	41.20	94.00		35.80			
13.40	41.60	94.40		35.90			
13.60	42.40	95.40		36.30			
14.00	43.00	96.30		36.50			
14.30	43.50	97.20		37.10			
14.60	44.20	98.10		37.40			
14.90	44.60	99.00		38.00			
15.00	45.10	100.00		38.50			
15.20	45.50	101.00		38.92			
15.40	46.00	102.00		39.34			
15.80	46.30	102.60		39.76			
16.00	46.70	103.50		40.18			



ABC	
ABC Thickness (in)	14.00
Average CBR	91
Weighted CBR Average	80
Maximum CBR Value	100
Minimum CBR Value	28

Soil Subgrade	
Average CBR	52
Weighted Average	40
Max CBR	100
Min CBR	14



ABC	
ABC Thickness (in)	8.75
Average CBR	75
Weighted CBR Average	61
Maximum CBR Value	100
Minimum CBR Value	20

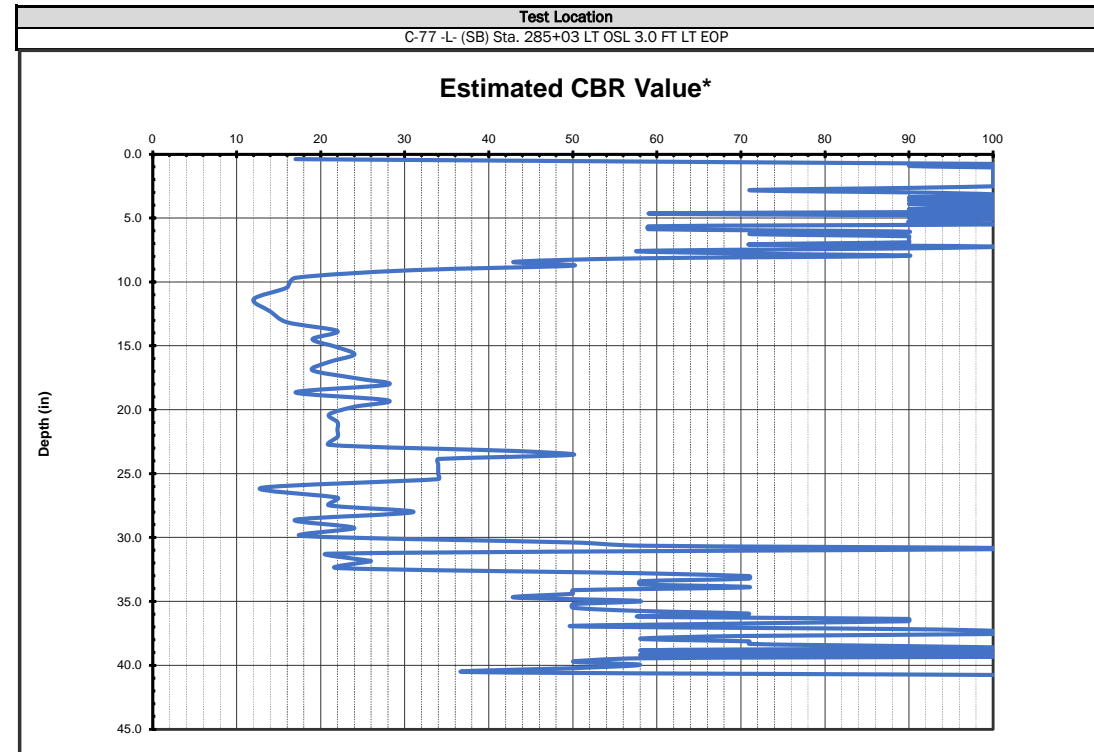
Soil Subgrade	
Average CBR	40
Weighted Average	27
Max CBR	100
Min CBR	12

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



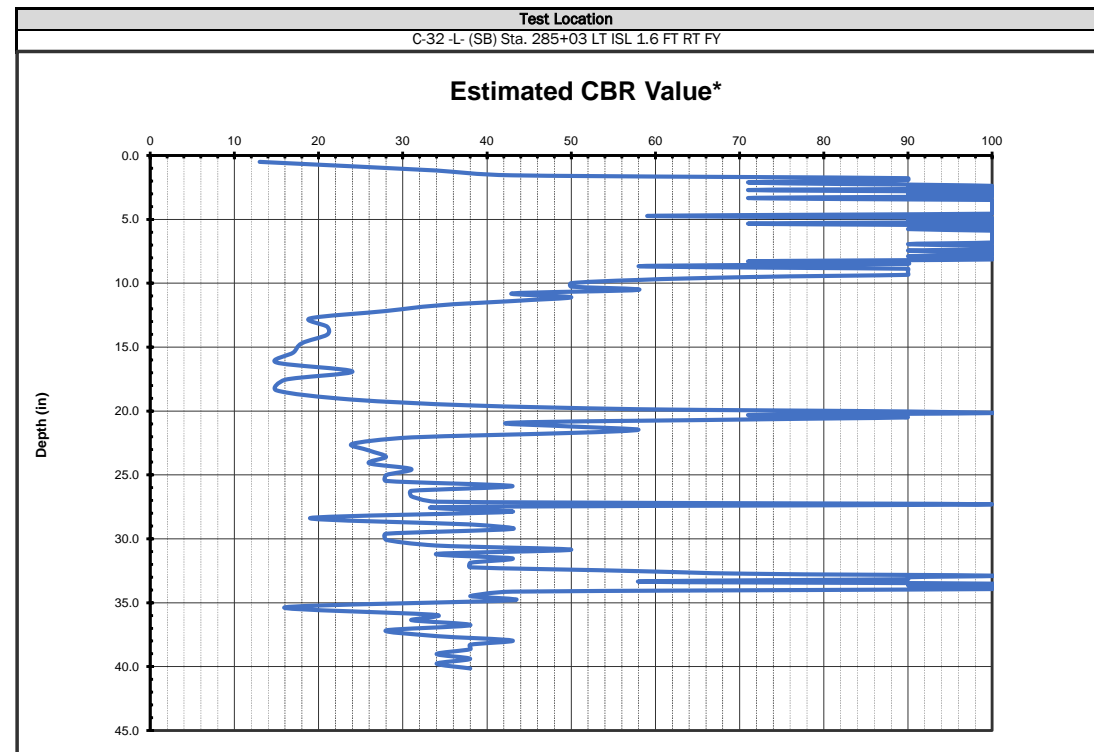


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-77 -L- (SB) Sta. 285+03 LT OSL 3.0 FT LT EOP				11/16 to 11/22/22	C-32 -L- (SB) Sta. 285+03 LT ISL 1.6 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.90	27.50	97.10		2.50	19.80	81.40	
2.00	30.10	97.60		3.50	20.20	82.30	
2.10	32.40	98.00		4.30	20.50	82.90	
2.50	34.40	98.30		4.70	20.80	83.40	
2.80	35.90	98.90		5.10	21.30	83.60	
3.00	37.60	99.20		5.60	21.70	84.00	
3.10	39.10	99.80		6.00	22.30	84.40	
3.36	40.50	99.90		6.10	22.70	85.00	
3.62	42.10	100.50		6.50	23.10	85.20	
3.88	43.80	101.20		6.60	23.50	85.60	
4.14	45.20	101.80		7.10	23.90	85.70	
4.40	46.40	102.50		7.40	24.40	86.00	
4.50	48.30	103.40		7.80	25.00	86.30	
4.60	49.50	103.60		7.90	25.70	87.10	
4.70	50.90			8.00	26.40	88.00	
4.80	52.50			8.20	27.00	88.80	
4.90	54.00			8.70	27.80	90.80	
5.22	55.50			9.00	28.50	91.80	
5.54	57.00			9.06	29.30	92.90	
5.86	58.60			9.12	30.30	93.80	
6.18	59.40			9.18	31.50	95.00	
6.50	60.10			9.24	33.20	96.00	
6.90	61.10			9.30	34.80	96.80	
7.40	62.10			9.36	36.40	97.70	
7.80	63.10			9.42	38.20	98.60	
8.10	64.10			9.48	40.10	99.60	
8.30	65.10			9.54	42.20	100.50	
8.40	67.50			9.60	43.60	101.50	
8.80	69.00			9.80	45.60	102.40	
9.00	70.60			10.00	47.80		
9.40	71.70			10.20	49.20		
9.60	73.60			10.40	50.10		
9.70	75.00			10.60	50.70		
10.10	76.80			10.82	51.10		
10.30	77.50			11.04	51.30		
10.60	78.10			11.26	51.80		
10.70	78.40			11.48	52.20		
11.10	78.60			11.70	52.70		
11.30	80.20			12.30	53.50		
11.50	81.50			12.50	54.20		
12.10	83.00			12.70	54.80		
12.40	83.60			13.10	55.50		
12.80	84.10			13.30	56.60		
13.10	84.60			13.80	58.00		
13.50	85.20			14.00	59.30		
13.90	85.80			14.30	60.50		
14.00	86.30			14.40	61.80		
14.60	87.00			14.80	62.90		
15.20	87.70			15.10	64.10		
15.60	88.50			15.40	65.30		
16.10	89.10			15.70	66.10		
16.50	89.80			16.00	67.20		
16.90	90.50			16.10	68.30		
17.30	91.10			16.40	69.30		
17.70	91.60			16.70	69.40		
18.20	92.20			16.90	70.40		
18.50	92.60			17.20	71.20		
18.90	93.00			17.40	72.90		
19.50	93.50			17.80	73.80		
20.00	94.20			18.10	74.60		
20.40	94.60			18.30	75.80		
21.00	94.90			18.50	77.00		
21.80	95.20			18.70	78.00		
22.50	95.50			19.10	78.70		
23.60	96.00			19.40	79.70		
25.50	96.60			19.60	80.50		



ABC	
ABC Thickness (in)	7.50
Average CBR	92
Weighted CBR Average	82
Maximum CBR Value	100
Minimum CBR Value	17

Soil Subgrade	
Average CBR	49
Weighted Average	35
Max CBR	100
Min CBR	12



ABC	
ABC Thickness (in)	8.00
Average CBR	93
Weighted CBR Average	78
Maximum CBR Value	100
Minimum CBR Value	13

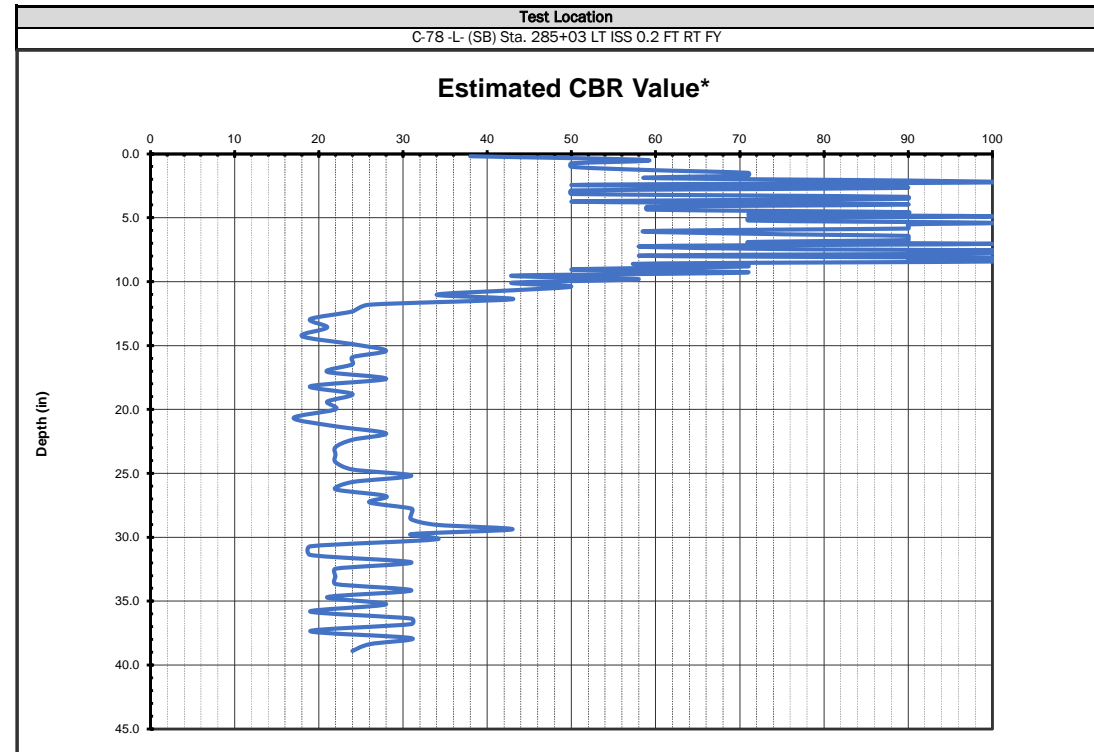
Soil Subgrade	
Average CBR	50
Weighted Average	37
Max CBR	100
Min CBR	15

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



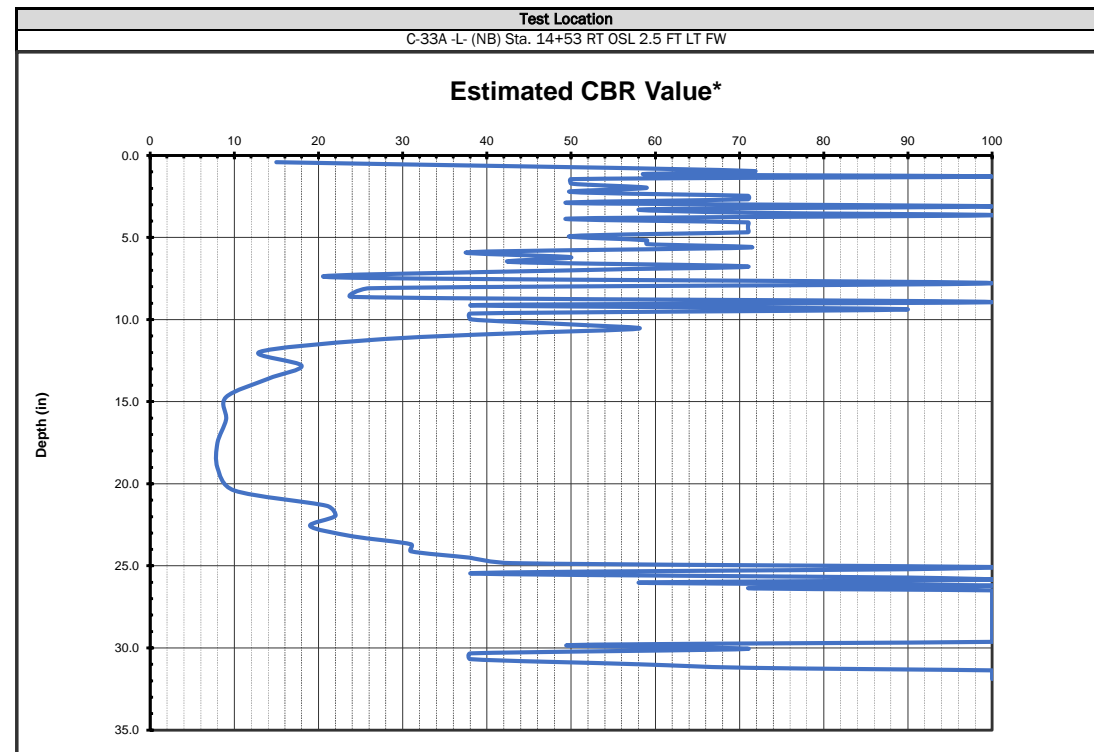


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
C-78 -L- (SB) Sta. 285+03 LT ISS 0.2 FT RT FY				11/16 to 11/22/22	C-33A -L- (NB) Sta. 14+53 RT OSL 2.5 FT LT FW				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
0.90	45.30			2.10	67.40	80.65					
1.50	47.00			2.60	67.70	80.66					
2.20	48.40			3.20	67.88	80.67					
2.90	50.00			3.30	68.06	80.68					
3.50	51.50			4.00	68.24	80.69					
4.00	53.40			4.70	68.42	80.70					
4.50	54.90			5.30	68.60	80.71					
5.10	56.10			6.00	68.78	80.72					
5.50	57.50			6.50	68.96	80.73					
5.80	59.00			7.00	69.14	80.74					
6.50	60.50			7.70	69.32	80.75					
6.90	62.00			8.00	69.50	80.76					
7.60	63.40			8.60	69.60	80.77					
8.30	64.50			9.10	69.70	80.78					
8.70	65.90			9.40	69.80	80.79					
9.10	67.40			10.10	69.90	80.80					
9.80	68.60			10.60	70.00	80.81					
10.20	69.90			11.10	70.10	80.82					
10.80	71.00			11.60	70.20	80.83					
11.40	72.10			12.10	70.30	80.84					
11.80	73.20			12.80	70.40	80.85					
12.30	74.20			13.40	70.50	80.86					
12.50	75.00			14.00	70.72	80.87					
13.00	76.10			14.50	70.94	80.88					
13.50	77.10			15.40	71.16	80.89					
13.80	78.85			16.10	71.38	80.90					
14.20	80.60			16.90	71.60	80.91					
14.60	81.70			17.40	71.82	80.92					
15.00	83.20			18.10	72.04	80.93					
15.60	84.70			19.60	72.26	80.94					
16.10	86.20			19.90	72.48	80.95					
16.50	87.30			21.20	72.70	80.96					
16.90	88.90			22.60	72.96	80.97					
17.30	90.10			22.70	73.22	80.98					
17.80	91.80			23.60	73.48	80.99					
18.00	92.90			24.00	73.74	81.00					
18.60	94.00			24.90	74.00	DCP REF					
19.10	95.70			25.80	74.28	SO/SL*					
19.20	96.80			26.50	74.56						
19.60	98.10			27.10	74.84						
19.90	99.50			27.90	75.12						
20.50				29.20	75.40						
20.80				31.60	76.10						
21.20				33.40	76.60						
21.50				35.70	77.50						
22.10				39.10	78.40						
22.60				42.60	79.00						
23.30				46.30	79.50						
23.80				50.30	79.80						
24.60				53.40	79.90						
25.20				55.00	80.20						
26.00				56.50	80.50						
26.70				58.20	80.51						
27.50				59.60	80.52						
28.50				60.70	80.53						
29.30				61.80	80.54						
30.60				62.70	80.55						
32.00				63.50	80.56						
33.70				63.80	80.57						
35.30				64.20	80.58						
37.10				65.10	80.59						
38.50				65.50	80.60						
39.70				65.80	80.61						
41.10				66.40	80.62						
42.50				66.70	80.63						
44.10				67.20	80.64						



ABC	
ABC Thickness (in)	7.75
Average CBR	75
Weighted CBR Average	69
Maximum CBR Value	100
Minimum CBR Value	38

Soil Subgrade	
Average CBR	34
Weighted Average	28
Max CBR	100
Min CBR	17



ABC	
ABC Thickness (in)	9.75
Average CBR	61
Weighted CBR Average	49
Maximum CBR Value	100
Minimum CBR Value	15

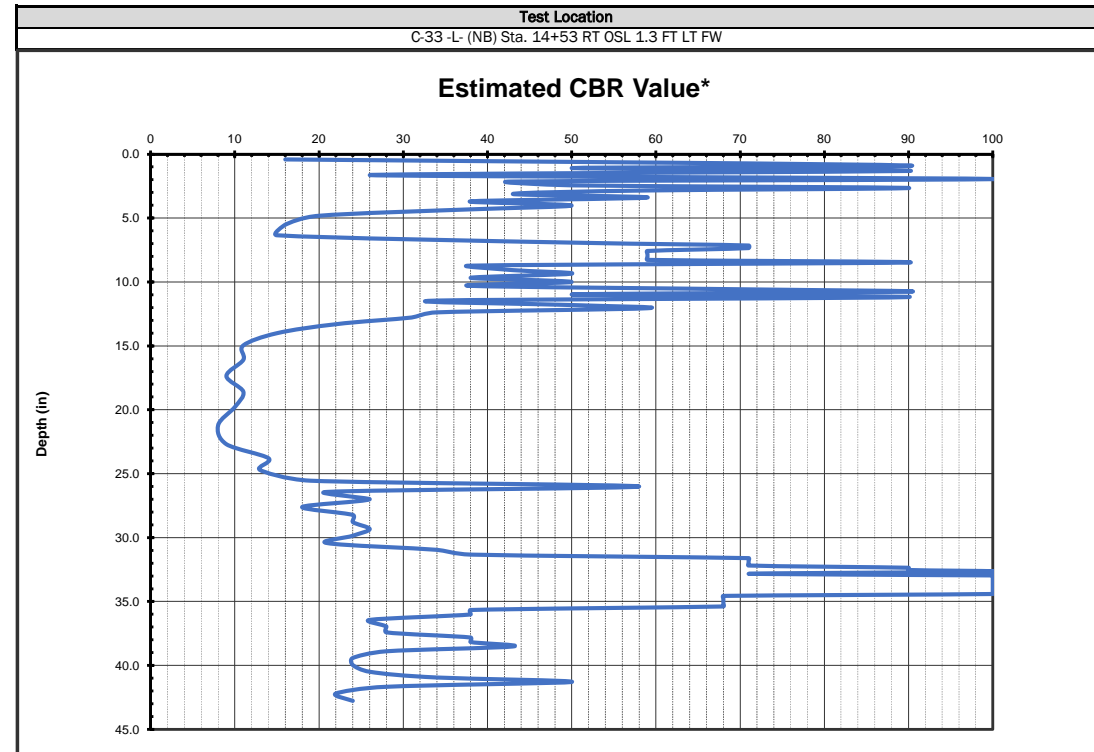
Soil Subgrade	
Average CBR	85
Weighted Average	38
Max CBR	100
Min CBR	8

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



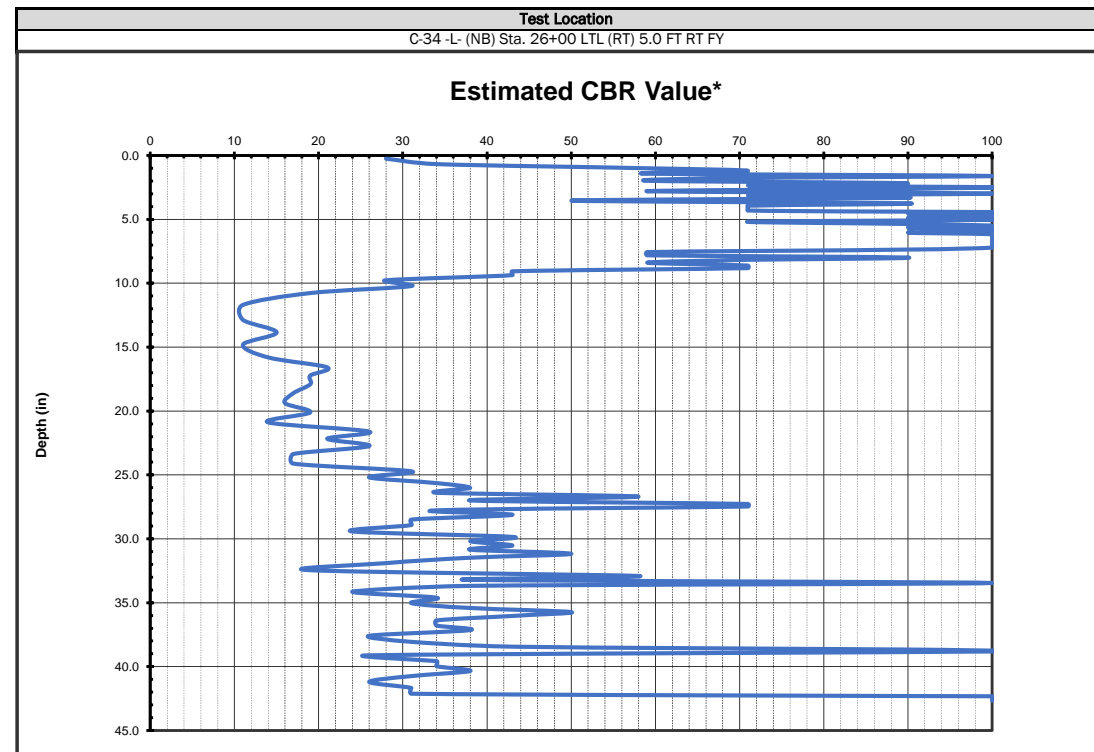


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
C-33 -L- (NB) Sta. 14+53 RT OSL 1.3 FT LT FW				11/16 to 11/22/22	C-34 -L- (NB) Sta. 26+00 LTL (RT) 5.0 FT RT FY		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
2.00	81.50			1.20	48.20	107.68	
2.40	82.00			2.20	50.20	107.70	
3.10	82.40			2.80	51.90	107.72	
3.50	82.80			3.30	54.20	107.73	
4.80	83.10			3.90	55.50	107.75	
5.00	83.60			4.20	57.10	107.77	
5.80	83.79			4.70	58.40	107.79	
6.50	83.98			5.30	60.30	107.81	
6.90	84.17			5.70	62.20	107.82	
7.50	84.36			6.20	63.30	107.84	
8.30	84.55			6.40	64.60	107.86	
8.90	84.74			6.80	65.60	107.88	
9.80	84.93			7.40	66.50	107.90	
10.50	85.12			7.70	67.50	107.91	
11.40	85.31			8.20	68.10	107.93	
13.00	85.50			8.60	69.00	107.95	
15.00	85.70			9.30	69.50	107.97	
17.20	85.90			9.70	70.00	107.99	
17.90	86.10			10.20	71.00	108.00	
18.40	86.30			10.70	71.80	108.02	
18.90	86.50			11.20	72.90	108.04	
19.50	86.70			11.30	74.00	108.06	
20.10	86.90			11.70	75.40	108.08	
20.70	87.10			11.90	76.20	108.09	
21.30	87.30			12.20	77.10	108.11	
21.70	87.50			12.60	77.90	108.13	
22.60	88.02			12.90	78.80	108.15	
23.40	88.54			13.40	79.50	108.17	
24.10	89.06			13.80	80.40	108.18	
25.00	89.58			14.10	81.60	108.20	
25.70	90.10			14.50	83.30	108.22	
26.60	91.00			14.70	83.90	108.24	
27.10	91.90			14.80	84.80	108.26	
27.50	93.20			15.10	85.10	108.27	
28.20	94.40			15.50	86.00	108.29	
28.60	95.60			15.74	87.40	108.31	
29.60	96.50			15.98	88.40	108.33	
30.30	97.40			16.22	89.50	108.35	
30.90	98.20			16.46	90.40	108.36	
31.90	99.40			16.70	91.10	108.38	
33.00	100.80			17.06	91.90	108.40	
34.50	102.20			17.42	92.90	DCP REF	
36.60	103.50			17.78	93.90	90/0.1*	
39.40	104.50			18.14	94.80		
42.30	105.20			18.50	96.10		
45.80	106.40			18.90	97.20		
48.60	107.90			19.50	98.00		
51.80	109.30			20.10	98.40		
55.90				20.50	98.70		
59.30				21.00	100.00		
61.60				21.60	101.00		
64.00				22.10	102.00		
65.70				22.60	102.90		
66.30				23.40	104.00		
67.90				24.20	105.30		
69.20				25.40	106.40		
71.00				26.50	107.50		
72.40				28.20	107.52		
73.80				31.20	107.54		
75.10				34.10	107.55		
76.50				36.20	107.57		
78.10				39.00	107.59		
79.10				41.30	107.61		
80.00				42.90	107.63		
80.50				44.60	107.64		
81.00				46.30	107.66		



ABC	
ABC Thickness (in)	14.00
Average CBR	51
Weighted CBR Average	40
Maximum CBR Value	100
Minimum CBR Value	15

Soil Subgrade	
Average CBR	56
Weighted Average	29
Max CBR	100
Min CBR	8



ABC	
ABC Thickness (in)	10.00
Average CBR	81
Weighted CBR Average	71
Maximum CBR Value	100
Minimum CBR Value	28

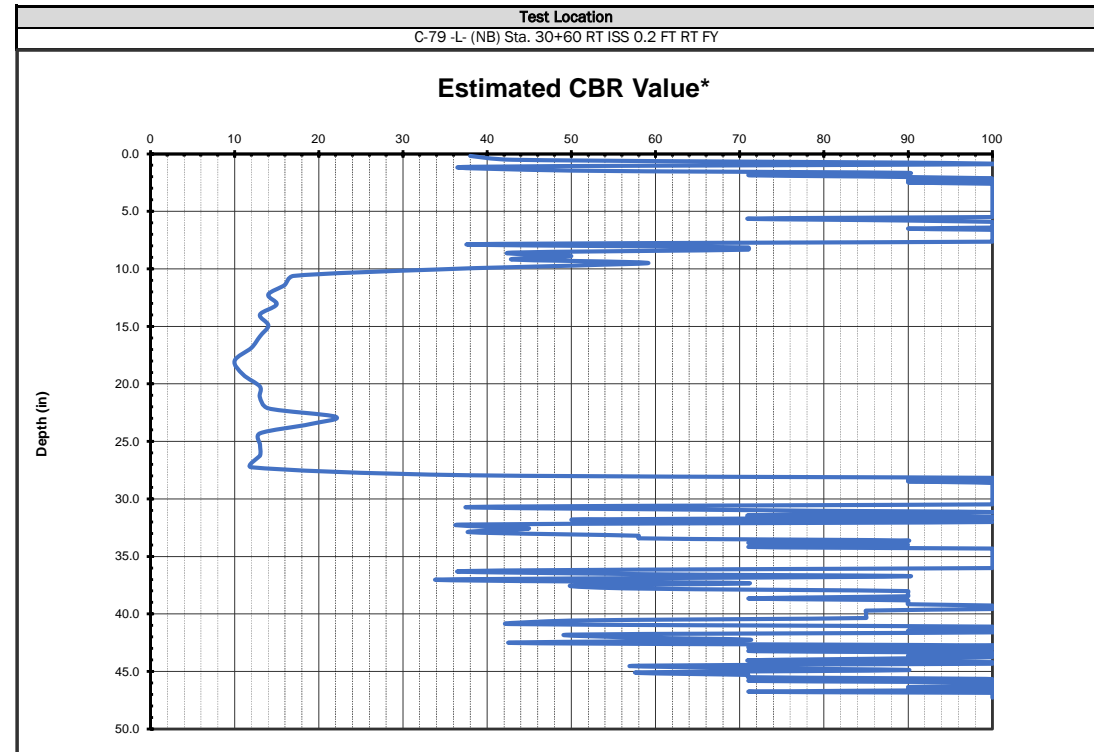
Soil Subgrade	
Average CBR	62
Weighted Average	28
Max CBR	100
Min CBR	11

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



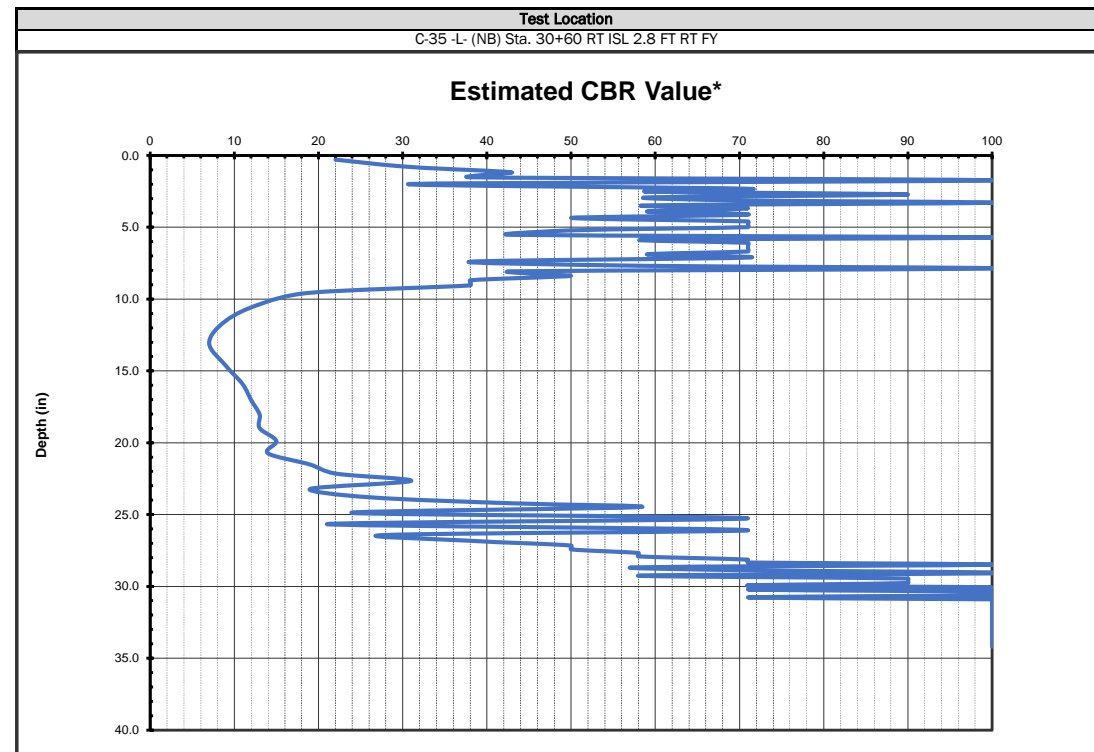


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
				11/16 to 11/22/22	C-35 -L- (NB) Sta. 30+60 RT ISL 2.8 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	4.0 ft Fill
0.90	16.80	78.40	104.50	119.64	1.50	72.20	86.50
1.70	17.10	78.90	104.80	119.66	2.60	72.50	86.57
2.10	17.40	79.20	105.10	119.68	3.40	73.10	86.63
2.40	17.70	79.60	105.50	119.70	4.30	73.60	86.70
3.30	18.00	80.10	105.80	119.73	4.50	73.80	86.77
4.00	18.30	80.40	106.50	119.75	5.60	74.00	86.83
4.40	18.54	81.10	107.10	119.77	6.10	74.60	86.90
4.90	18.78	81.40	107.60	119.79	6.70	75.00	DCP REF
5.30	19.02	82.33	108.40	119.81	7.10	75.40	90/0.4*
5.60	19.26	83.10	108.70	119.84	7.70	75.80	
6.00	19.50	84.00	109.20	119.86	8.20	76.30	
6.10	20.40	84.60	109.50	119.88	8.50	76.50	
6.50	20.90	85.20	110.00	119.90	9.10	77.00	
6.60	21.40	85.60	110.30	119.92	9.60	77.30	
6.80	22.20	86.10	110.60	119.95	10.20	77.60	
7.10	22.90	86.50	111.00	119.97	10.70	77.90	
7.20	23.70	87.00	111.20	119.99	11.40	78.40	
7.30	24.30	87.30	111.60	120.01	11.90	78.60	
7.40	25.00	87.60	112.10	120.03	12.40	78.80	
7.50	26.00	87.78	112.40	120.06	12.90	79.00	
7.60	27.90	87.96	112.70	120.08	13.60	79.20	
7.78	29.90	88.14	113.30	120.10	14.40	79.40	
7.95	32.20	88.32	113.80	DCP REF	14.60	79.60	
8.13	34.30	88.50	114.20	80/0.4*	15.20	79.86	
8.30	36.70	88.68	114.80		15.70	80.12	
8.48	39.00	88.86	115.30		16.20	80.38	
8.66	41.50	89.04	115.80		16.70	80.64	
8.84	44.10	89.22	116.10		17.20	80.90	
9.02	47.20	89.40	116.60		17.80	81.14	
9.20	50.20	89.58	116.80		18.30	81.38	
9.40	52.60	89.76	117.00		19.20	81.62	
9.60	55.00	89.94	117.30		19.80	81.86	
9.80	57.30	90.12	117.50		20.10	82.10	
10.00	58.80	90.30	117.90		20.90	82.40	
10.20	60.50	90.56	118.10		21.60	82.70	
10.40	62.90	90.82	118.20		22.50	83.00	
10.60	65.40	91.08	118.50		23.40	83.30	
10.80	67.90	91.34	119.00		25.10	83.60	
11.00	70.50	91.60	119.02		27.50	83.86	
11.20	71.40	92.50	119.04		30.90	84.12	
11.30	71.60	93.10	119.07		35.40	84.38	
11.40	72.00	93.50	119.09		39.00	84.64	
11.50	72.10	94.50	119.11		41.90	84.90	
11.60	72.50	95.00	119.13		44.60	84.97	
11.70	72.80	95.70	119.15		47.00	85.03	
11.86	73.10	96.30	119.18		49.40	85.10	
12.02	73.31	96.70	119.20		51.50	85.17	
12.18	73.52	97.10	119.22		53.80	85.23	
12.34	73.73	97.50	119.24		55.50	85.30	
12.50	73.94	97.90	119.26		57.00	85.37	
12.76	74.15	98.40	119.29		58.10	85.43	
13.02	74.36	98.80	119.31		59.80	85.50	
13.28	74.57	99.20	119.33		61.10	85.57	
13.54	74.78	99.60	119.35		61.90	85.63	
13.80	74.99	99.80	119.37		62.50	85.70	
14.00	75.20	100.00	119.40		63.90	85.77	
14.50	75.40	100.20	119.42		64.40	85.83	
14.90	75.60	100.40	119.44		66.00	85.90	
15.10	75.80	100.60	119.46		66.50	85.97	
15.40	76.00	101.02	119.48		67.70	86.03	
15.60	76.20	101.44	119.51		68.60	86.10	
15.80	76.46	101.86	119.53		69.30	86.17	
16.00	76.72	102.28	119.55		70.00	86.23	
16.20	76.98	102.70	119.57		70.60	86.30	
16.30	77.24	103.40	119.59		71.20	86.37	
16.70	77.50	104.20	119.62		71.70	86.43	



ABC	
ABC Thickness (in)	10.50
Average CBR	91
Weighted CBR Average	77
Maximum CBR Value	100
Minimum CBR Value	34

Soil Subgrade	
Average CBR	83
Weighted Average	47
Max CBR	100
Min CBR	10



ABC	
ABC Thickness (in)	16.50
Average CBR	54
Weighted CBR Average	35
Maximum CBR Value	100
Minimum CBR Value	7

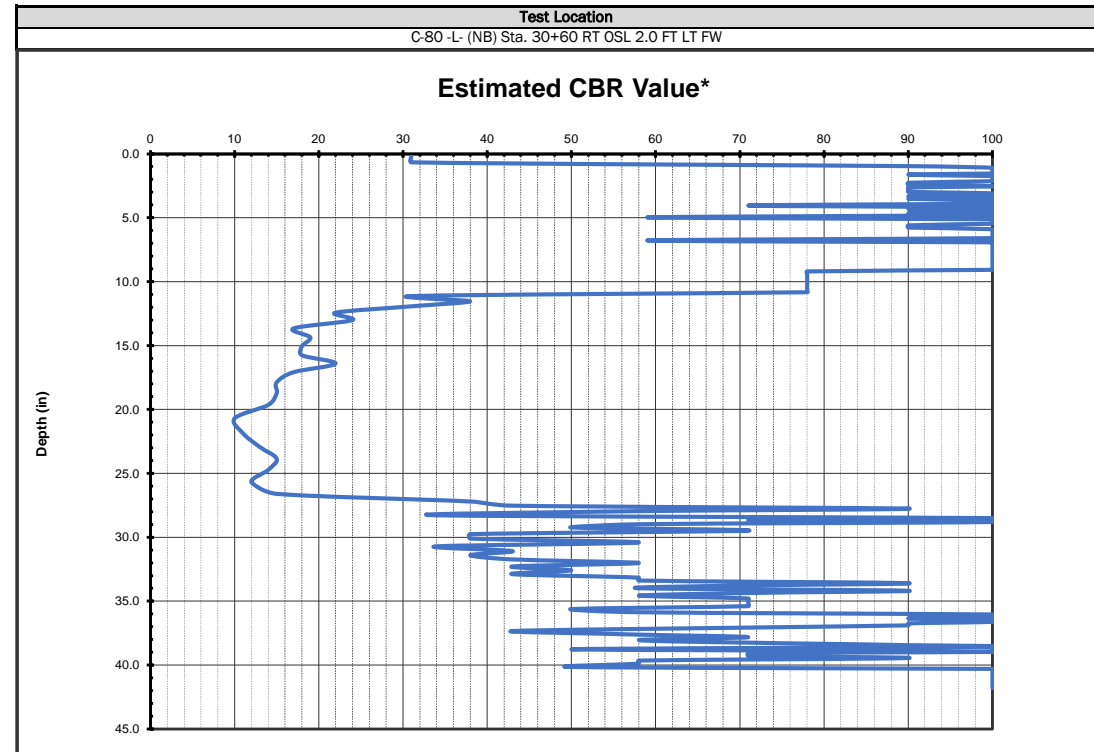
Soil Subgrade	
Average CBR	82
Weighted Average	48
Max CBR	100
Min CBR	12

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



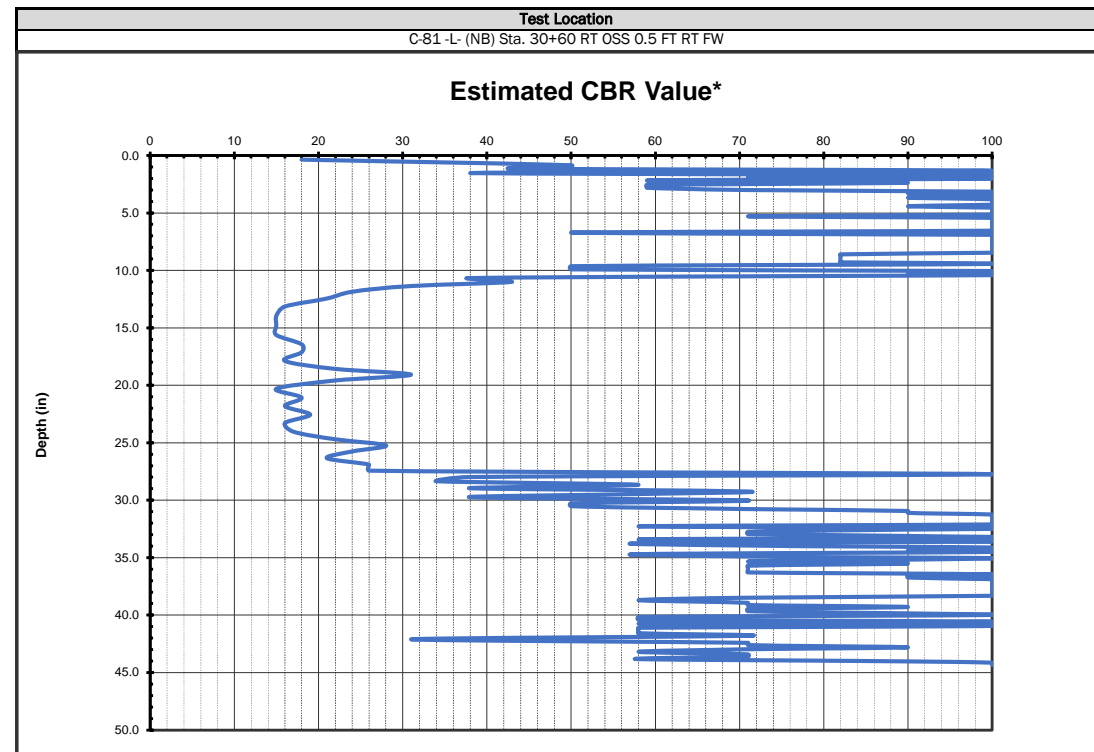


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
C-80 -L- (NB) Sta. 30+60 RT OSL 2.0 FT LT FW				11/16 to 11/22/22	C-81 -L- (NB) Sta. 30+60 RT OSS 0.5 FT RT FW	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.10	19.95 82.40 104.37			1.80	20.20 81.10 108.50		
2.20	20.16 83.10 104.44			2.50	20.48 81.40 108.90		
2.60	20.37 83.90 104.51			3.30	20.76 81.70 109.40		
2.90	20.58 84.50 104.59			3.40	21.04 82.30 110.00		
3.20	20.79 85.10 104.66			4.30	21.32 82.50 110.50		
3.50	21.00 85.50 104.73			4.40	21.60 82.90 111.00		
3.80	21.21 86.00 104.81			4.90	22.04 83.40 111.60		
3.90	21.42 86.60 104.88			5.20	22.48 83.90 112.00		
4.30	21.63 87.00 104.95			5.80	22.92 84.30 112.20		
4.50	21.84 87.50 105.03			6.20	23.36 84.60 112.50		
4.80	22.05 88.10 105.10			6.80	23.80 85.20 112.70		
5.00	22.26 88.60 105.17			7.40	24.10 85.40		
5.30	22.47 89.10 105.25			7.90	24.80 86.00		
5.50	22.68 89.60 105.32			8.10	25.50 86.50		
5.90	22.89 90.10 105.39			8.50	25.60 86.80		
6.30	23.10 90.80 105.47			8.80	25.90 87.10		
6.50	23.56 91.40 105.54			9.10	26.30 87.50		
6.90	24.02 91.60 105.61			9.50	26.60 87.80		
7.30	24.48 91.90 105.69			9.80	27.50 88.40		
7.70	24.94 92.10 105.76			10.10	28.30 88.90		
7.90	25.40 92.50 105.83			10.40	29.40 89.10		
8.20	25.86 92.70 105.91			10.70	30.80 89.50		
8.60	26.32 92.90 105.98			11.00	32.40 90.00		
8.70	26.78 93.10 106.05			11.40	34.40 90.40		
9.10	27.24 93.50 106.13			11.70	36.50 90.90		
9.40	27.70 93.90 106.20			12.00	38.60 91.40		
9.70	28.80 94.40 DCP REF			12.10	40.80 91.90		
10.00	29.70 95.20 89/2.0'			12.40	42.60 92.40		
10.50	30.80 95.80			12.60	44.40 92.70		
10.70	32.30 96.30			12.90	46.40 93.10		
11.10	33.70 96.90			13.20	47.90 93.50		
11.40	35.60 97.40			13.70	49.00 93.80		
11.60	37.30 97.80			13.80	50.50 94.10		
12.00	39.10 98.10			14.10	52.60 94.30		
12.30	40.90 98.80			14.40	54.40 94.60		
12.90	42.40 99.00			14.60	56.40 94.70		
13.10	44.30 99.50			14.70	58.10 94.94		
13.40	46.50 100.00			15.00	60.10 95.18		
13.70	48.70 100.40			15.20	62.00 95.42		
14.00	51.00 101.00			15.50	63.50 95.66		
14.40	54.10 101.60			15.80	64.70 95.90		
14.80	57.00 102.30			16.00	66.10 96.22		
15.10	59.50 102.39			16.20	67.70 96.54		
15.40	61.60 102.47			16.50	69.00 96.86		
15.70	63.90 102.56			16.70	70.30 97.18		
15.90	66.50 102.64			17.40	70.60 97.50		
16.00	68.60 102.73			17.70	71.50 98.00		
16.20	69.50 102.81			17.81	72.50 98.60		
16.50	70.30 102.90			17.92	73.10 99.10		
16.60	70.70 102.98			18.03	74.00 99.60		
16.90	71.30 103.07			18.14	74.50 100.00		
17.50	72.30 103.15			18.25	75.10 100.50		
17.64	72.50 103.24			18.36	76.00 101.00		
17.78	73.00 103.32			18.47	76.50 101.40		
17.92	73.30 103.41			18.58	77.20 101.70		
18.06	73.90 103.49			18.69	77.90 102.30		
18.20	74.60 103.58			18.80	78.40 102.90		
18.34	75.10 103.66			18.94	78.80 103.20		
18.48	76.00 103.75			19.08	79.20 103.80		
18.62	76.90 103.83			19.22	79.50 104.10		
18.76	77.50 103.92			19.36	79.80 104.70		
18.90	78.50 104.00			19.50	80.00 105.30		
19.11	79.30 104.07			19.64	80.30 105.90		
19.32	80.20 104.15			19.78	80.60 106.40		
19.53	81.00 104.22			19.92	80.70 107.50		
19.74	81.60 104.29			20.06	80.90 108.00		



ABC	
ABC Thickness (in)	11.00
Average CBR	93
Weighted CBR Average	87
Maximum CBR Value	100
Minimum CBR Value	31

Soil Subgrade	
Average CBR	72
Weighted Average	39
Max CBR	100
Min CBR	10



ABC	
ABC Thickness (in)	11.00
Average CBR	90
Weighted CBR Average	76
Maximum CBR Value	100
Minimum CBR Value	18

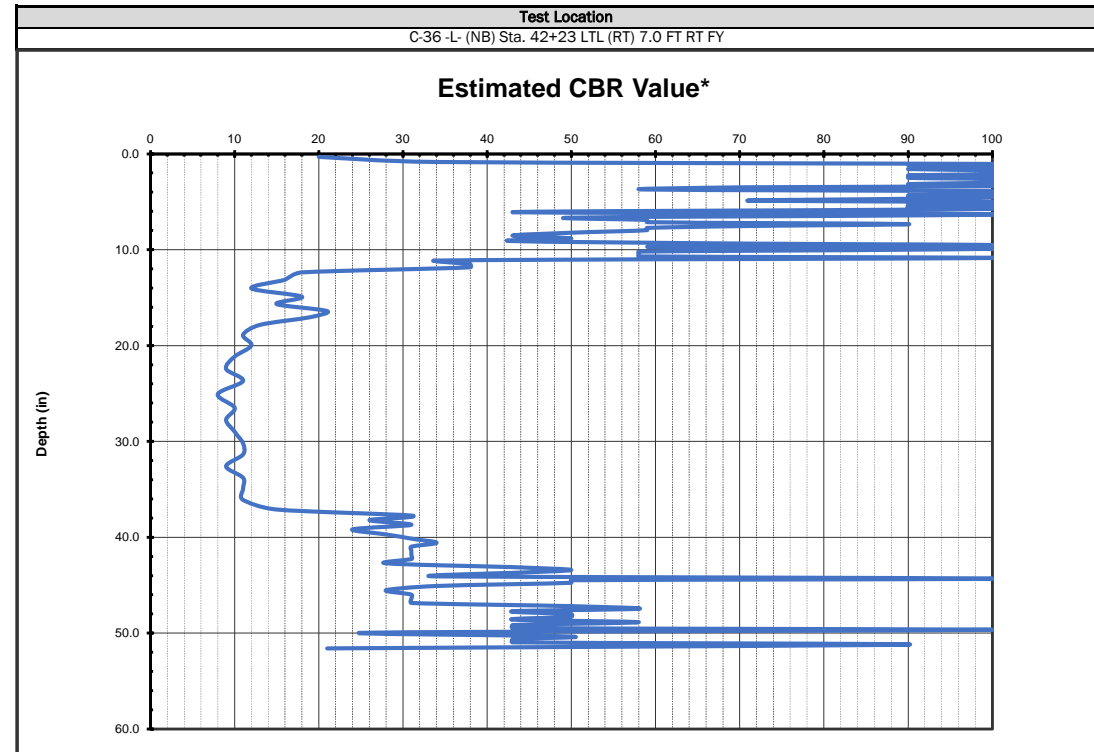
Soil Subgrade	
Average CBR	69
Weighted Average	46
Max CBR	100
Min CBR	15

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



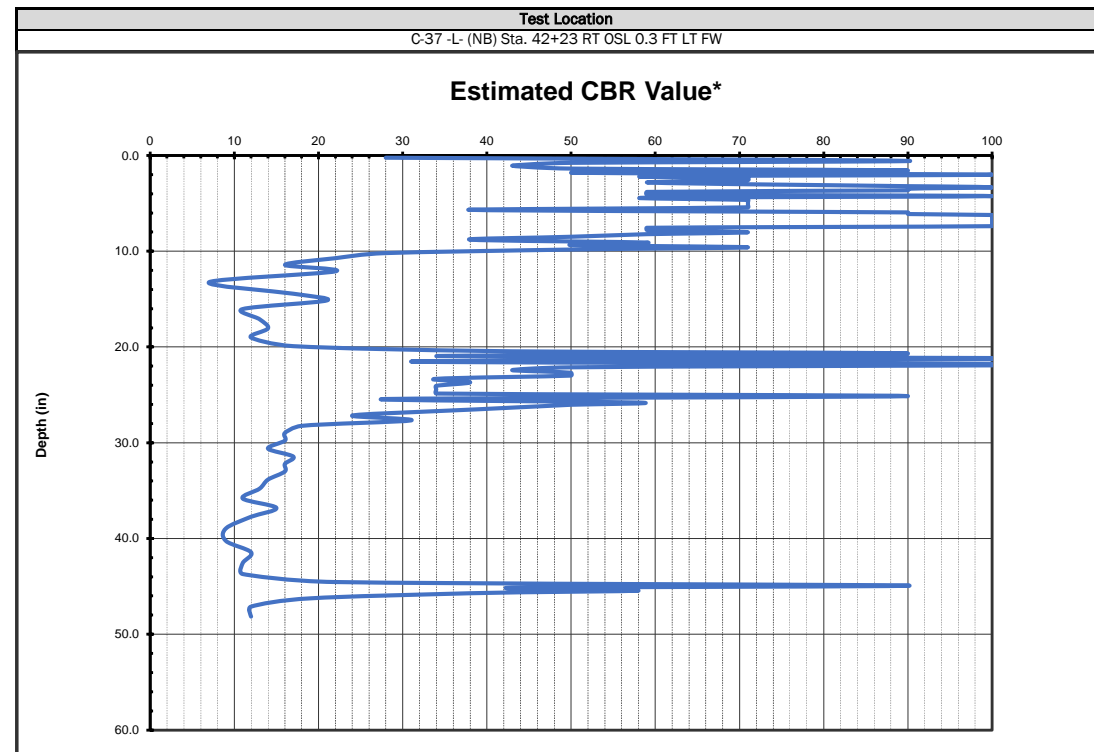


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-36 -L- (NB) Sta. 42+23 LTL (RT) 7.0 FT RT FY				11/16 to 11/22/22	C-37 -L- (NB) Sta. 42+23 RT OSL 0.3 FT LT FW	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.60	29.60			1.20	51.50		
2.60	30.50			1.60	52.30		
2.70	32.30			2.30	52.70		
3.10	34.30			3.10	53.70		
3.30	36.90			3.80	53.80		
3.50	38.70			4.20	54.00		
3.80	40.80			4.90	54.10		
4.20	42.40			5.20	55.20		
4.40	44.10			5.80	55.50		
4.70	46.50			6.30	55.80		
4.90	49.40			6.80	56.50		
5.20	52.10			7.40	57.30		
5.50	55.30			7.90	58.00		
5.90	58.60			8.30	58.70		
6.10	61.60			8.60	59.70		
6.50	65.70			9.00	60.60		
6.80	68.80			9.40	61.60		
7.10	72.10			10.00	62.60		
7.30	75.20			10.60	63.60		
7.50	78.20			10.90	64.00		
7.80	81.10			11.50	65.20		
8.20	84.40			12.00	65.80		
8.50	87.20			12.50	66.50		
8.60	90.20			13.00	67.30		
9.10	93.10			13.50	68.30		
9.70	95.30			14.00	69.70		
10.00	96.40			14.90	70.80		
10.20	97.70			15.30	72.60		
10.50	98.80			15.70	74.60		
10.80	100.20			15.90	76.60		
11.20	101.40			16.06	78.90		
11.40	102.50			16.22	80.80		
11.70	103.50			16.38	82.80		
12.10	104.60			16.54	84.80		
12.60	105.70			16.70	87.10		
12.90	106.80			16.86	89.60		
13.30	107.90			17.02	92.40		
13.60	109.10			17.18	94.50		
14.00	109.90			17.34	97.20		
14.40	110.60			17.50	100.60		
14.60	111.40			17.78	103.90		
15.00	112.40			18.06	106.60		
15.80	112.60			18.34	109.60		
16.10	113.30			18.62	112.40		
16.50	114.00			18.90	113.90		
17.20	115.00			19.50	114.30		
17.80	116.20			20.10	115.10		
18.40	117.30			20.60	115.70		
18.80	118.40			21.20	116.60		
19.30	119.50			21.90	118.30		
19.90	120.20			22.80	121.00		
20.50	120.80			23.40	123.60		
21.20	121.60			24.10			
22.00	122.30			24.60			
22.70	123.00			25.30			
23.50	123.80			26.50			
24.00	124.40			28.00			
24.30	125.20			30.00			
24.90	126.00			31.50			
25.20	126.20			35.70			
25.60	127.50			37.60			
26.20	128.20			39.20			
26.80	129.00			42.20			
27.40	129.80			44.70			
27.70	130.20			47.00			
28.70	131.80			49.60			



ABC	
ABC Thickness (in)	9.75
Average CBR	84
Weighted CBR Average	72
Maximum CBR Value	100
Minimum CBR Value	20

Soil Subgrade	
Average CBR	35
Weighted Average	23
Max CBR	100
Min CBR	8



ABC	
ABC Thickness (in)	9.75
Average CBR	77
Weighted CBR Average	67
Maximum CBR Value	100
Minimum CBR Value	28

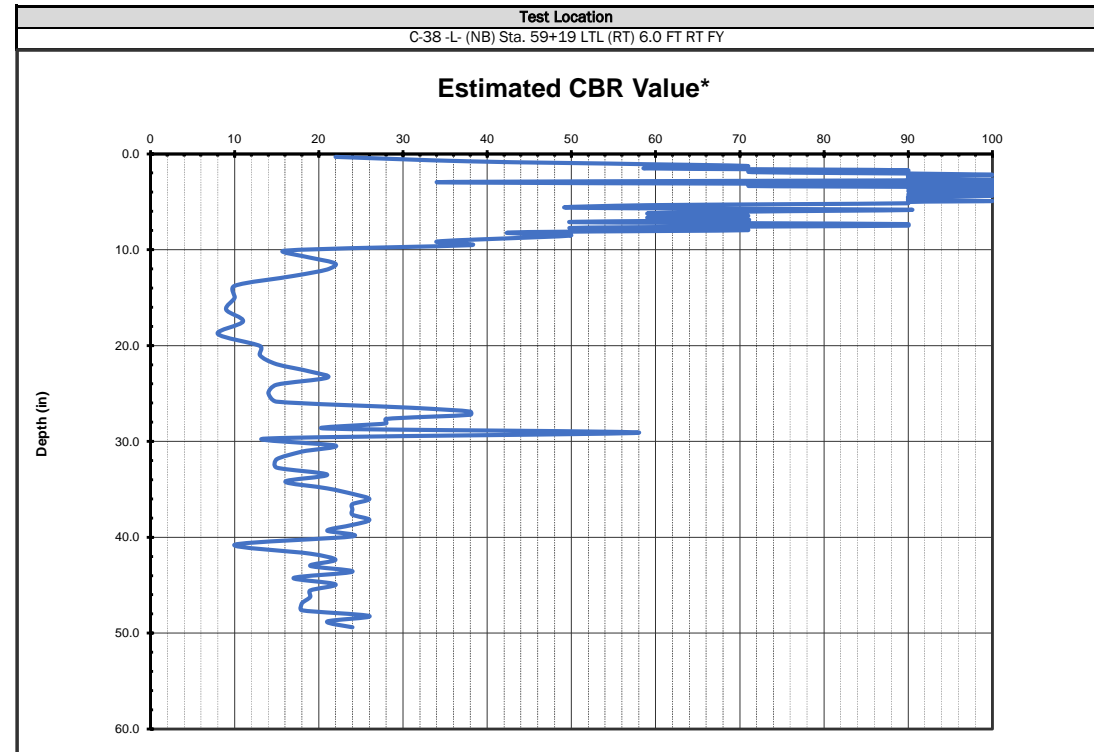
Soil Subgrade	
Average CBR	34
Weighted Average	21
Max CBR	100
Min CBR	7

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



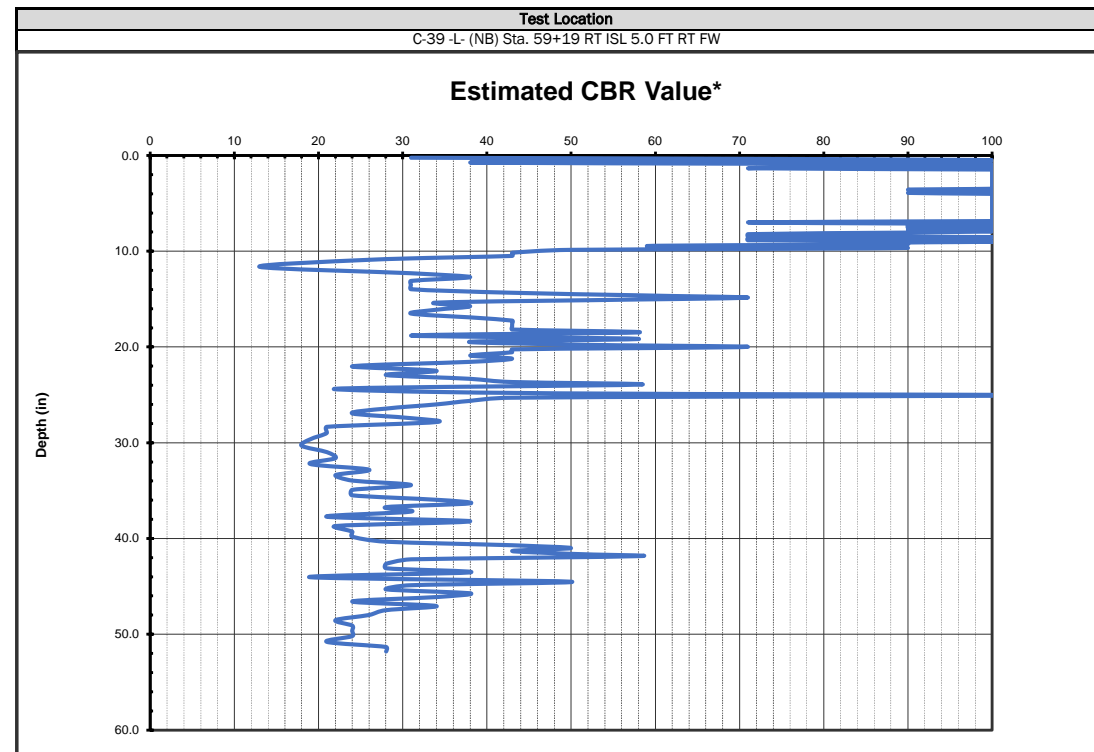


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
C-38 -L- (NB) Sta. 59+19 LTL (RT) 6.0 FT RT FY				11/16 to 11/22/22	C-39 -L- (NB) Sta. 59+19 RT ISL 5.0 FT RT FW				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.50	67.80			1.10	13.70	51.00	125.40				
2.40	68.70			1.40	13.80	51.80	126.80				
3.00	69.60			2.30	13.90	52.60	128.20				
3.50	70.80			2.40	14.00	53.50	129.80				
4.10	72.00			2.50	14.18	54.30	131.00				
4.50	73.60			2.80	14.36	55.20	132.20				
5.00	74.20			3.10	14.54	56.60					
5.40	76.50			3.60	14.72	57.60					
5.60	78.00			3.76	14.90	58.80					
6.00	79.80			3.92	15.12	59.70					
6.40	82.00			4.08	15.34	60.50					
6.80	84.20			4.24	15.56	61.10					
7.00	85.80			4.40	15.78	62.60					
8.00	87.80			4.50	16.00	63.40					
8.20	89.40			4.60	16.30	63.60					
8.70	90.80			4.70	16.60	63.80					
9.00	92.10			4.80	16.90	64.60					
9.40	93.50			4.90	17.20	65.50					
9.60	94.90			5.00	17.50	66.50					
10.00	96.30			5.10	18.00	67.70					
10.30	97.60			5.20	18.30	69.10					
10.50	99.00			5.30	18.50	70.20					
10.90	100.60			5.40	18.90	71.20					
11.20	102.00			5.50	19.30	72.80					
11.60	105.10			5.60	19.60	74.40					
12.00	106.80			5.70	20.00	76.10					
12.40	108.30			5.80	20.20	77.90					
12.50	110.00			5.90	20.60	79.50					
12.90	111.40			6.00	21.10	81.00					
13.30	113.30			6.10	21.60	82.70					
13.90	114.80			6.20	21.70	84.00					
14.60	116.50			6.30	22.20	85.50					
15.00	118.20			6.40	22.70	86.90					
15.50	120.00			6.54	22.90	88.00					
16.10	121.80			6.68	23.30	89.40					
16.60	123.10			6.82	23.70	90.80					
17.20	124.70			6.96	24.30	91.80					
17.70	126.10			7.10	24.70	92.70					
18.40				7.22	25.40	93.90					
18.80				7.34	26.20	95.00					
19.20				7.46	27.00	96.60					
19.90				7.58	28.30	97.50					
20.40				7.70	30.70	99.00					
21.20				7.94	31.80	100.40					
21.90				8.18	32.70	101.80					
22.70				8.42	33.80	103.00					
23.70				8.66	34.90	103.80					
24.60				8.90	36.00	104.50					
26.60				9.30	36.80	105.30					
28.30				9.50	37.40	106.00					
29.80				9.70	37.90	106.60					
31.40				10.10	38.50	107.70					
33.30				10.30	39.50	108.90					
36.50				10.60	40.40	110.10					
39.60				10.90	41.40	111.00					
42.90				11.10	42.50	112.70					
45.80				11.30	43.40	113.40					
49.60				11.50	44.20	114.50					
52.10				11.70	45.00	115.70					
54.60				12.00	45.80	116.60					
56.80				12.10	46.60	117.60					
58.50				12.40	47.20	119.00					
60.10				12.60	48.30	120.00					
62.20				12.80	48.90	121.20					
64.50				13.10	49.80	122.50					
66.70				13.40	50.50	124.00					



ABC	
ABC Thickness (in)	11.00
Average CBR	72
Weighted CBR Average	58
Maximum CBR Value	100
Minimum CBR Value	16

Soil Subgrade	
Average CBR	21
Weighted Average	18
Max CBR	58
Min CBR	8



ABC	
ABC Thickness (in)	11.25
Average CBR	94
Weighted CBR Average	82
Maximum CBR Value	100
Minimum CBR Value	26

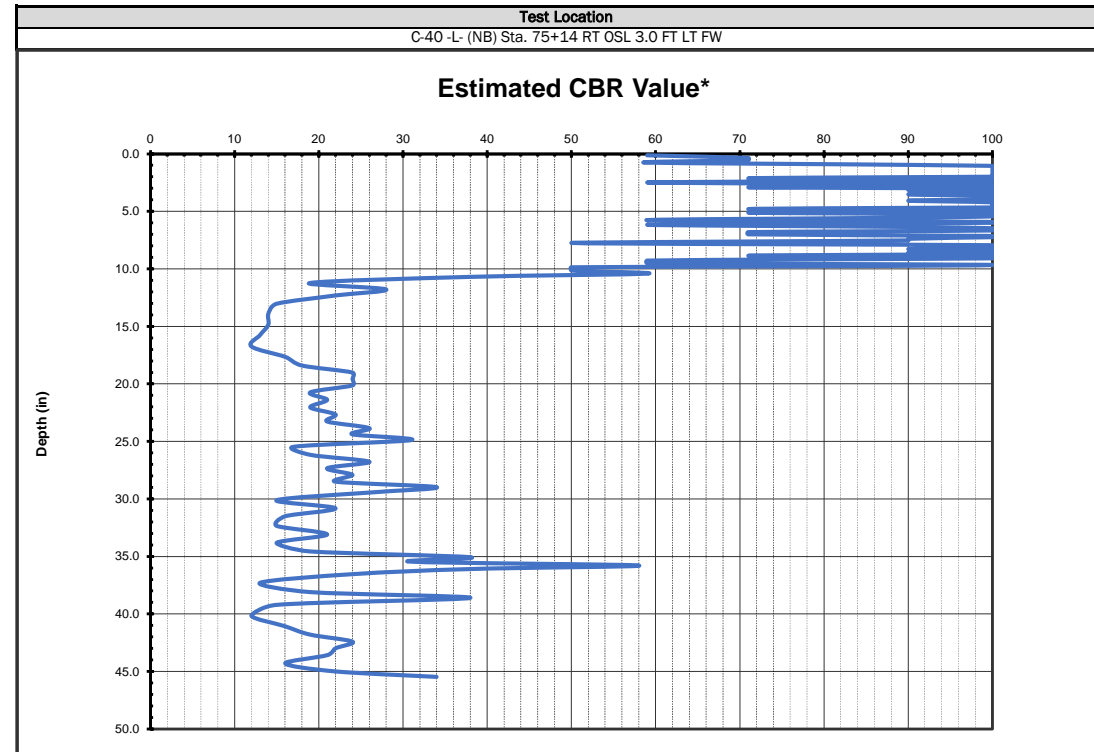
Soil Subgrade	
Average CBR	36
Weighted Average	31
Max CBR	100
Min CBR	13

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



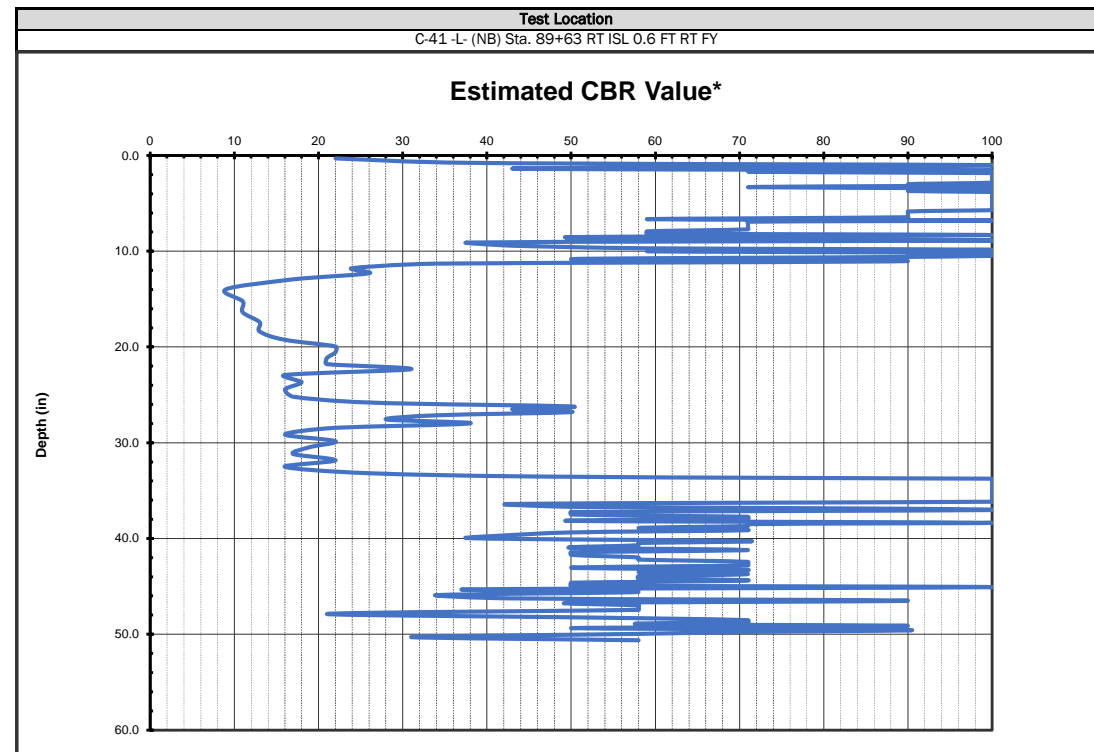


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location	Date Run			
C-40 -L- (NB) Sta. 75+14 RT OSL 3.0 FT LT FW				11/16 to 11/22/22	C-41 -L- (NB) Sta. 89+63 RT ISL 0.6 FT RT FY	11/16 to 11/22/22			
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		ABC	5.0 ft Fill	DCP	Cumulative cm per blow		ABC	5.0 ft Fill
0.60	18.20	98.50			1.50	21.00	87.65	116.10	
1.10	18.50	100.60			2.40	21.30	87.76	117.10	
1.60	18.90	103.30			2.70	22.00	87.87	117.90	
2.20	19.30	105.30			3.10	22.50	87.98	118.30	
2.60	20.00	107.00			3.90	22.60	88.09	119.00	
2.70	20.30	108.40			4.00	23.50	88.20	119.60	
2.90	20.60	109.90			4.50	24.30	88.33	120.20	
3.00	20.80	111.50			4.80	24.90	88.46	120.80	
3.20	21.20	113.50			5.00	25.10	88.59	122.40	
3.30	21.40	115.00			5.14	25.70	88.72	123.00	
3.40	21.60	116.00			5.28	26.00	88.85	123.50	
3.50	22.00				5.42	26.40	88.98	124.00	
3.60	22.20				5.56	26.70	89.11	124.60	
3.70	22.70				5.70	27.10	89.24	125.00	
3.80	22.90				6.04	27.80	89.37	125.70	
3.90	23.20				6.38	28.20	89.50	126.10	
4.00	23.80				6.72	29.20	89.68	126.60	
4.10	24.40				7.06	30.60	89.86	127.20	
4.20	24.70				7.40	31.90	90.04	128.30	
4.38	25.40				7.80	33.80	90.22	128.90	
4.56	26.10				8.10	37.20	90.40		
4.74	26.70				8.60	40.10	90.72		
4.92	27.60				8.90	43.00	91.04		
5.10	29.30				9.20	45.50	91.36		
5.60	30.50				9.60	47.90	91.68		
5.70	32.00				9.70	49.90	92.00		
6.00	34.20				10.00	51.40	92.80		
6.60	36.50				10.10	52.90	93.50		
6.90	38.80				10.26	54.50	93.90		
7.00	41.20				10.42	56.10	94.20		
7.10	43.80				10.58	57.20	94.90		
7.60	45.80				10.74	59.20	95.60		
7.70	47.60				10.90	61.00	96.10		
8.10	49.00				10.98	63.00	96.60		
8.40	50.40				11.06	64.90	97.30		
8.70	51.80				11.14	66.20	97.50		
9.10	53.50				11.22	66.90	98.00		
9.40	55.10				11.30	67.70	98.50		
9.70	56.80				11.62	68.40	99.10		
9.90	58.30				11.94	69.40	99.60		
10.10	59.90				12.26	70.60	100.30		
10.50	61.20				12.58	71.50	101.10		
10.80	62.60				12.90	73.00	102.00		
11.10	63.70				13.04	75.00	102.50		
11.40	65.60				13.18	76.50	103.10		
11.60	67.30				13.32	78.20	103.70		
11.70	68.60				13.46	80.10	104.40		
11.90	70.20				13.60	81.60	104.90		
12.40	71.60				13.80	83.60	105.60		
12.60	73.10				14.00	84.90	106.30		
12.70	74.10				14.20	85.60	106.90		
13.20	75.40				14.40	85.90	107.50		
13.50	77.50				14.60	86.02	108.00		
13.70	79.00				15.00	86.14	108.50		
13.90	81.00				15.40	86.26	109.00		
14.30	83.20				15.80	86.38	109.70		
14.90	84.80				16.20	86.50	110.20		
15.10	86.90				16.60	86.62	110.80		
15.30	88.60				17.20	86.74	111.30		
15.90	89.50				17.30	86.86	111.90		
16.30	90.60				17.80	86.98	112.50		
16.50	91.20				18.30	87.10	113.00		
16.80	92.10				18.80	87.21	113.70		
17.00	93.50				19.30	87.32	114.40		
17.50	95.90				19.80	87.43	114.60		
18.00	97.60				20.40	87.54	115.50		



ABC	
ABC Thickness (in)	12.25
Average CBR	88
Weighted CBR Average	75
Maximum CBR Value	100
Minimum CBR Value	19

Soil Subgrade	
Average CBR	22
Weighted Average	20
Max CBR	58
Min CBR	12



ABC	
ABC Thickness (in)	11.25
Average CBR	88
Weighted CBR Average	76
Maximum CBR Value	100
Minimum CBR Value	22

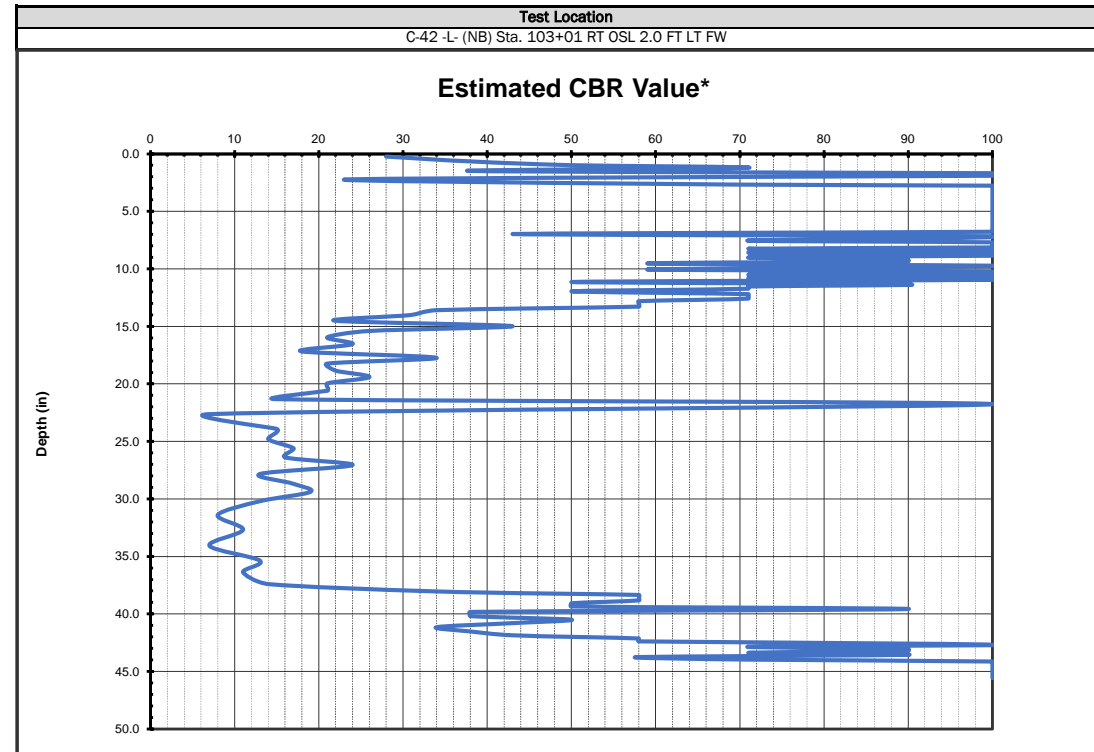
Soil Subgrade	
Average CBR	63
Weighted Average	38
Max CBR	100
Min CBR	9

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



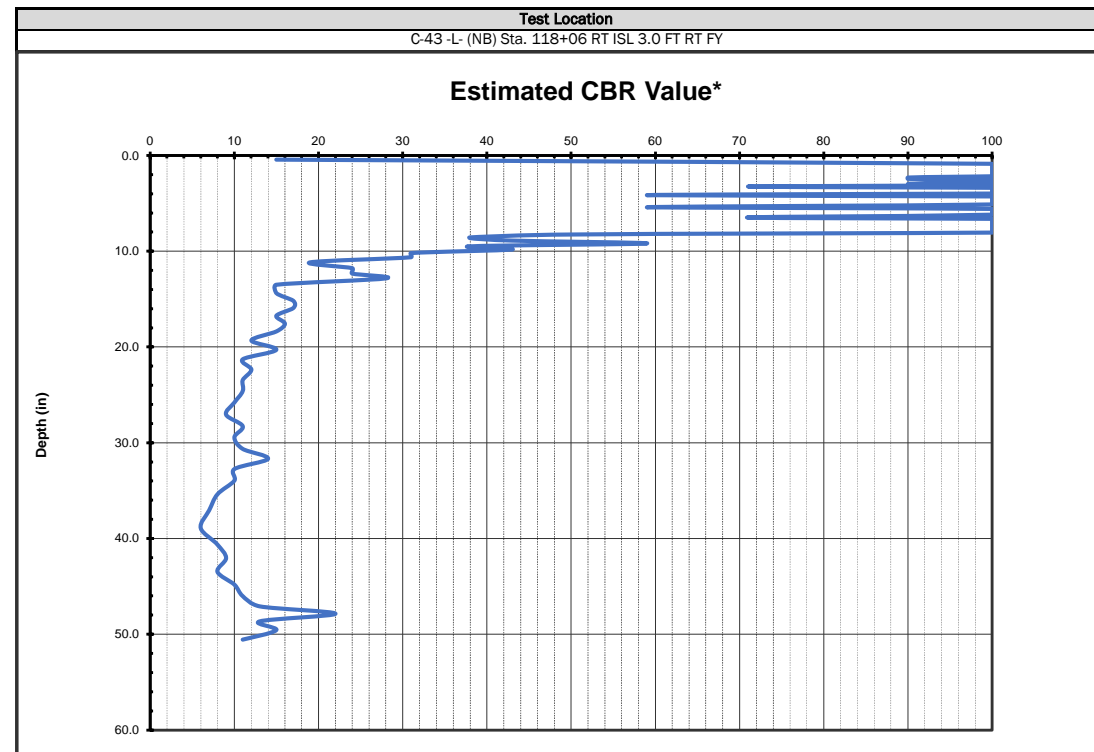


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
				Date Run	Test Location	Date Run			
C-42 -L- (NB) Sta. 103+01 RT OSL 2.0 FT LT FW				11/16 to 11/22/22	C-43 -L- (NB) Sta. 118+06 RT ISL 3.0 FT RT FY	11/16 to 11/22/22			
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		ABC	5.0 ft Fill	DCP	Cumulative cm per blow		ABC	8.0 ft Fill
1.20	15.60	45.50	112.95		2.10	13.00	112.30		
2.10	15.68	47.10	112.99		2.24	13.40	115.40		
2.80	15.76	48.60	113.04		2.38	14.00	118.30		
3.30	15.84	49.90	113.08		2.52	14.30	120.80		
4.20	15.92	51.50	113.12		2.66	14.60	122.30		
4.34	16.00	53.10	113.17		2.80	14.80	124.80		
4.48	16.08	55.20	113.21		2.98	15.10	127.00		
4.62	16.16	55.30	113.26		3.16	15.30	129.80		
4.76	16.24	59.60	113.30		3.34	15.50			
4.90	16.32	61.80	113.40		3.52	15.80			
6.30	16.40	64.10	113.50		3.70	16.20			
6.90	16.50	66.00	113.60		3.80	16.70			
7.10	16.60	68.00	113.70		3.90	16.88			
7.30	16.70	69.40	113.80		4.00	17.06			
7.50	16.80	71.90	113.90		4.10	17.24			
7.70	16.90	73.80	114.00		4.20	17.42			
7.90	17.10	75.50	114.10		4.32	17.60			
8.06	17.30	77.90	114.20		4.44	17.78			
8.22	18.10	81.60	114.30		4.56	17.96			
8.38	18.20	84.40	114.40		4.68	18.14			
8.54	18.50	88.60	114.50		4.80	18.32			
8.70	18.90	91.00	114.60		4.96	18.50			
8.86	19.40	93.80	114.70		5.12	18.86			
9.02	19.60	96.10	114.80		5.28	19.22			
9.18	19.90	97.10	114.90		5.44	19.58			
9.34	20.10	97.70	115.00		5.60	19.94			
9.50	20.40	98.30	115.10		6.00	20.30			
9.74	20.60	98.90	115.20		6.40	20.60			
9.98	20.70	99.60	115.30		6.70	21.30			
10.22	21.20	100.30	115.40		7.00	22.20			
10.46	21.50	100.70	115.50		7.10	23.00			
10.70	22.00	101.60	115.60		7.30	23.60			
10.88	22.30	102.50	115.70		7.70	24.50			
11.06	22.60	103.20	115.80		8.00	25.30			
11.24	23.10	104.00	DCP REP		8.50	26.40			
11.42	23.50	105.00	BO/S.O.		8.64	27.50			
11.60	23.90	105.90			8.78	29.20			
11.74	24.50	106.70			8.92	30.60			
11.88	24.80	107.30			9.06	32.00			
12.02	25.20	107.90			9.20	33.20			
12.16	25.80	108.30			9.34	35.40			
12.30	26.10	108.60			9.48	37.60			
12.44	26.40	109.10			9.62	39.50			
12.58	26.90	109.50			9.76	41.40			
12.72	27.10	109.90			9.90	43.60			
12.86	27.60	110.40			10.20	45.60			
13.00	27.90	110.80			10.80	47.70			
13.20	28.60	111.40			10.91	50.40			
13.40	29.00	111.90			11.02	52.60			
13.60	29.50	112.20			11.13	55.50			
13.80	30.00	112.24			11.24	58.10			
14.00	30.70	112.29			11.35	61.00			
14.14	31.20	112.33			11.46	63.90			
14.28	31.70	112.38			11.57	67.10			
14.42	32.20	112.42			11.68	70.40			
14.56	32.80	112.46			11.79	73.20			
14.70	33.40	112.51			11.90	76.30			
14.79	34.00	112.55			12.01	79.30			
14.88	35.00	112.60			12.12	81.60			
14.97	36.10	112.64			12.23	84.70			
15.06	37.60	112.68			12.34	87.80			
15.15	38.40	112.73			12.45	91.90			
15.24	39.70	112.77			12.56	96.40			
15.33	41.30	112.82			12.67	101.30			
15.42	42.70	112.86			12.78	105.10			
15.51	44.50	112.90			12.89	108.50			



ABC	
ABC Thickness (in)	12.50
Average CBR	92
Weighted CBR Average	78
Maximum CBR Value	100
Minimum CBR Value	24

Soil Subgrade	
Average CBR	68
Weighted Average	29
Max CBR	100
Min CBR	7



ABC	
ABC Thickness (in)	9.75
Average CBR	94
Weighted CBR Average	80
Maximum CBR Value	100
Minimum CBR Value	15

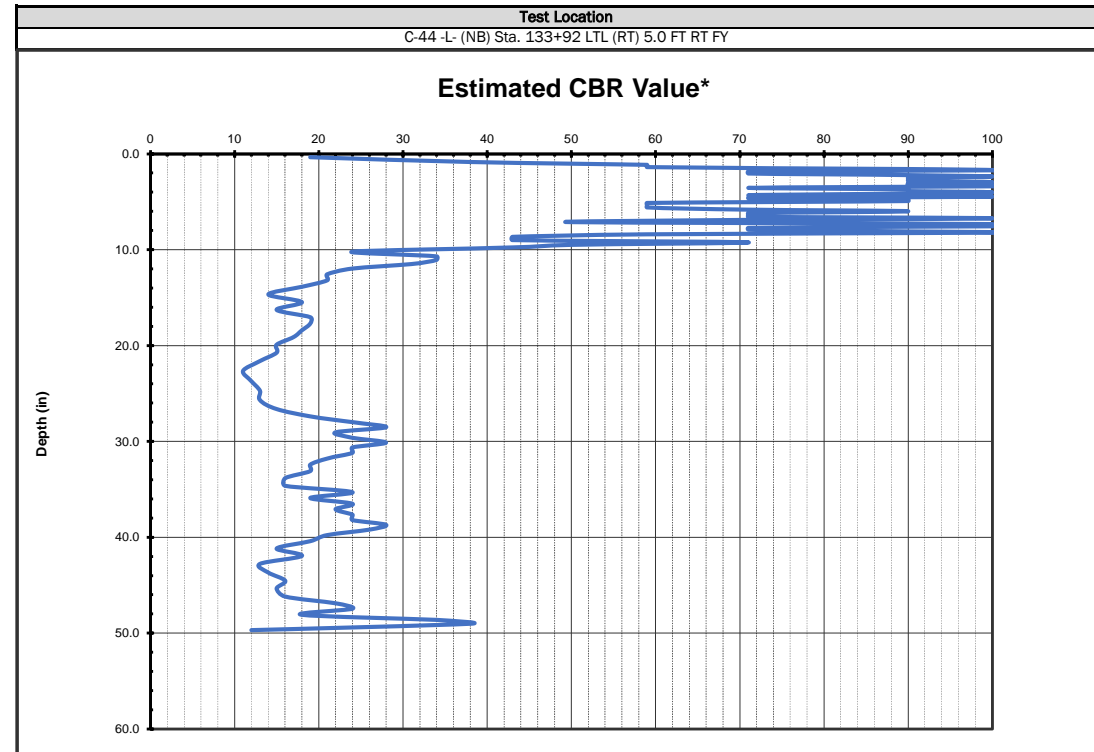
Soil Subgrade	
Average CBR	15
Weighted Average	12
Max CBR	43
Min CBR	6

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



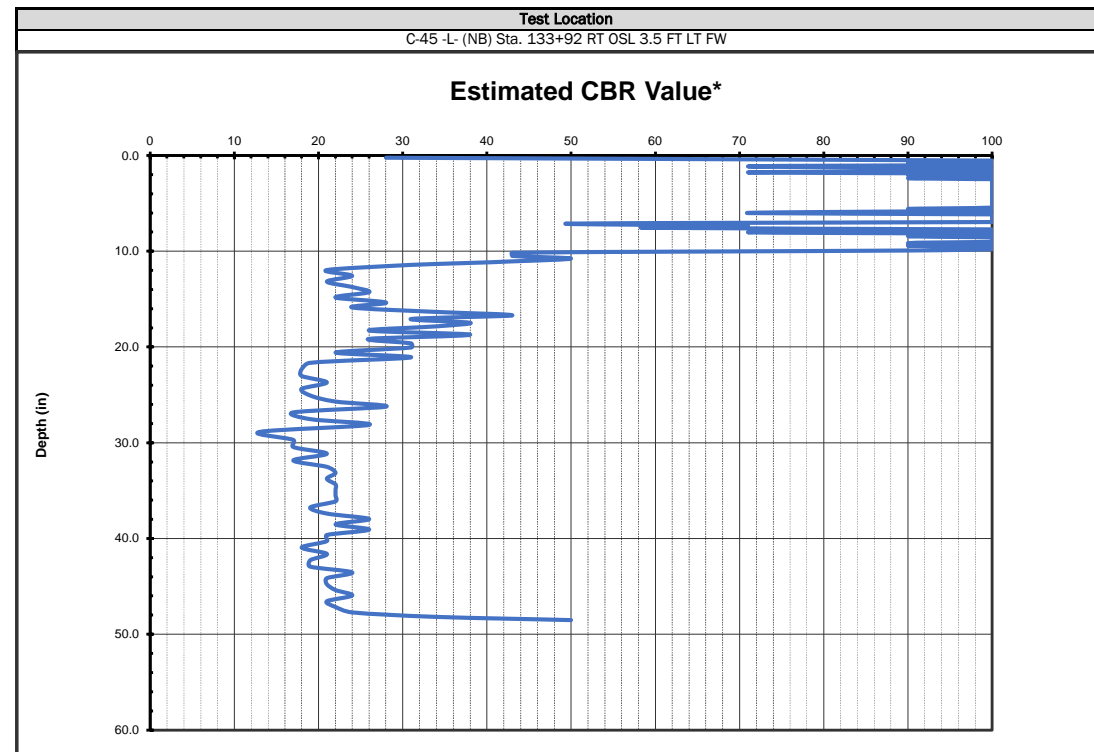


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
C-44 -L- (NB) Sta. 133+92 LTL (RT) 5.0 FT RT FY				11/16 to 11/22/22	C-45 -L- (NB) Sta. 133+92 RT OSL 3.5 FT LT FW				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.70	51.60			1.20	16.90	79.90					
2.60	53.70			1.50	17.10	81.80					
3.20	56.10			1.70	17.30	83.40					
3.80	58.90			2.10	17.50	84.90					
4.20	61.50			2.40	17.70	86.50					
4.40	64.00			2.60	18.40	88.00					
4.90	66.50			3.10	18.90	89.50					
5.40	68.70			3.50	19.50	91.00					
5.80	70.40			3.70	19.70	92.50					
6.10	71.80			4.00	19.80	94.20					
6.50	73.00			4.20	20.10	95.80					
6.90	74.50			4.70	20.60	97.10					
7.30	75.90			5.00	20.90	98.60					
7.60	77.10			5.40	21.20	99.90					
8.00	78.50			5.70	21.60	101.50					
8.40	79.90			5.80	21.90	103.10					
8.70	81.50			6.20	22.20	104.90					
9.20	83.20			6.40	22.50	106.50					
9.60	84.90			6.50	22.80	108.20					
10.00	86.90			6.70	23.00	109.90					
10.30	88.90			6.80	23.40	111.30					
10.70	90.30			6.90	23.70	112.90					
11.20	92.00			7.10	24.10	114.50					
11.40	93.40			7.30	24.40	116.00					
11.90	94.90			7.50	24.70	117.40					
12.30	96.30			7.70	25.00	119.00					
12.70	97.70			7.90	25.40	120.50					
13.30	98.90			8.10	26.20	121.90					
13.90	100.20			8.30	27.00	122.90					
14.50	101.80			8.50	27.70	123.60					
15.00	103.50			8.70	28.50						
15.40	105.60			8.90	29.60						
15.90	107.40			9.12	31.20						
16.40	109.80			9.34	32.60						
16.90	112.10			9.56	34.20						
17.20	114.10			9.78	35.60						
17.70	116.30			10.00	36.90						
18.40	118.30			10.14	38.40						
18.70	119.80			10.28	39.60						
19.00	121.20			10.42	41.00						
19.30	123.00			10.56	42.00						
19.80	124.00			10.70	42.80						
20.30	124.90			10.90	43.90						
20.70	127.50			11.10	44.80						
21.00				11.30	45.80						
21.60				11.50	47.10						
22.40				11.70	48.00						
23.20				11.86	49.30						
23.70				12.02	50.40						
24.40				12.18	51.50						
25.20				12.34	53.00						
26.60				12.50	54.10						
27.60				12.80	55.80						
28.60				13.10	57.60						
29.70				13.40	59.40						
31.10				13.70	61.00						
32.70				14.00	62.80						
34.30				14.40	64.50						
36.10				14.60	66.00						
38.40				15.00	67.20						
40.20				15.50	69.10						
42.40				15.70	70.80						
44.10				16.00	72.10						
45.80				16.20	74.50						
47.60				16.40	76.40						
49.50				16.60	78.30						



ABC	
ABC Thickness (in)	11.00
Average CBR	75
Weighted CBR Average	65
Maximum CBR Value	100
Minimum CBR Value	19

Soil Subgrade	
Average CBR	20
Weighted Average	19
Max CBR	38
Min CBR	11



ABC	
ABC Thickness (in)	11.25
Average CBR	94
Weighted CBR Average	85
Maximum CBR Value	100
Minimum CBR Value	28

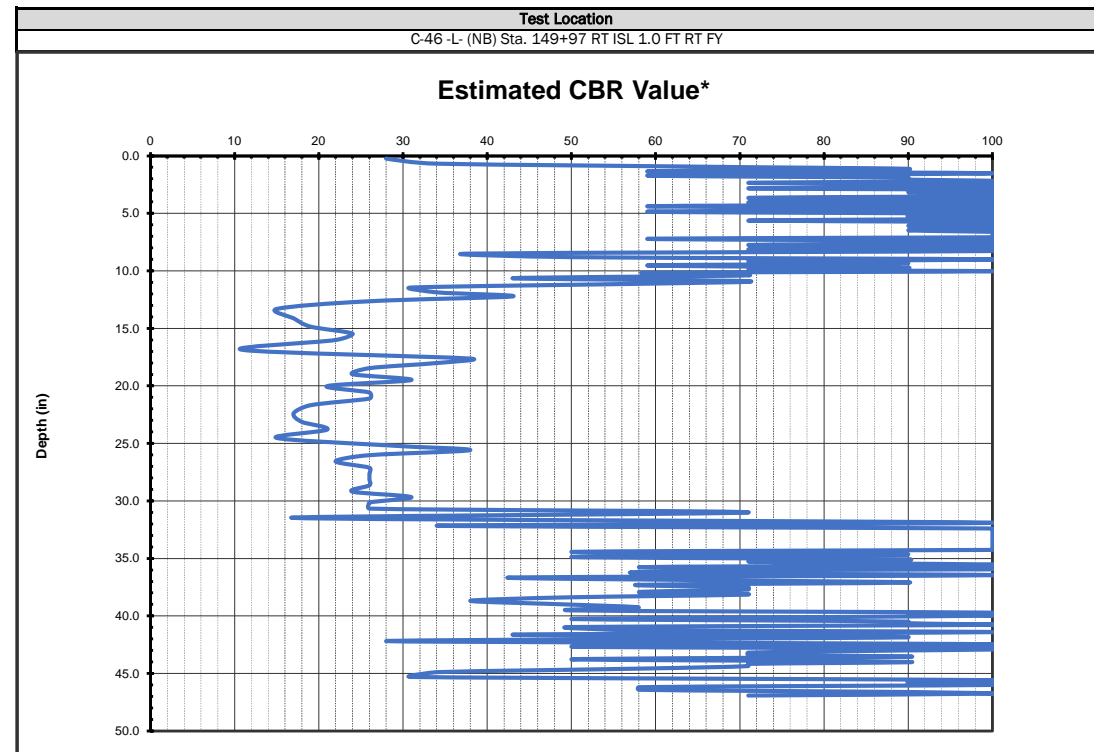
Soil Subgrade	
Average CBR	24
Weighted Average	23
Max CBR	50
Min CBR	13

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



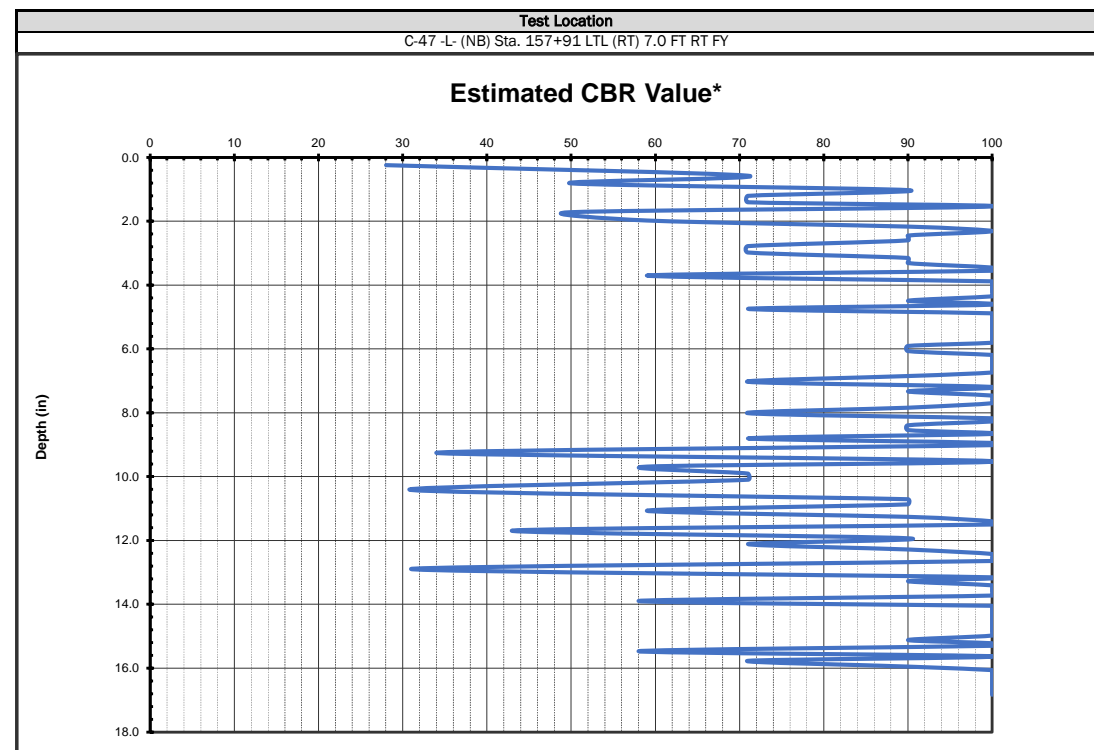


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
C-46 -L- (NB) Sta. 149+97 RT ISL 1.0 FT RT FY				11/16 to 11/22/22	C-47 -L- (NB) Sta. 157+91 LTL (RT) 7.0 FT RT FY				11/16 to 11/22/22		
Type	Test Interval			Datum	Cut/Fill	Type	Test Interval			Datum	Cut/Fill
DCP	Cumulative cm per blow			ABC	5.0 ft Fill	DCP	Cumulative cm per blow			ABC	5.0 ft Fill
1.20	23.90	83.70	111.50			1.20	24.00	41.28			
2.20	24.50	83.77	111.90			1.70	24.30	41.30			
2.70	24.90	83.85	112.40			2.40	24.90	41.34			
3.10	25.40	83.92	112.90			2.80	25.40	41.37			
3.70	25.50	84.00	113.50			3.30	25.90	41.41			
4.00	26.10	84.18	114.50			3.80	27.00	41.44			
4.60	26.60	84.36	115.60			4.00	27.40	41.48			
5.00	27.40	84.54	115.90			4.70	27.80	41.51			
5.40	27.90	84.72	116.30			5.30	28.40	41.55			
5.70	28.50	84.90	116.70			5.70	28.80	41.58			
6.20	29.60	85.08	117.00			6.00	29.10	41.62			
6.40	30.60	85.26	117.60			6.40	29.30	41.65			
6.70	31.40	85.44	118.20			6.80	30.10	41.69			
6.90	32.70	85.62	118.60			7.30	30.50	41.72			
7.40	34.90	85.80	118.90			7.80	31.00	41.76			
7.50	36.80	86.06	119.40			8.20	31.40	41.79			
7.80	38.50	86.32				8.60	31.70	41.83			
8.20	39.90	86.58				8.90	32.00	41.86			
8.50	41.40	86.84				9.10	32.20	41.90			
8.80	44.30	87.10				9.70	33.30	41.93			
9.00	45.20	87.80				10.00	33.50	41.97			
9.50	46.20	88.20				10.10	33.90	42.00			
9.80	47.50	88.90				10.30	34.20	42.08			
10.00	48.90	89.30				10.60	34.40	42.16			
10.50	50.00	89.80				10.90	34.70	42.24			
10.80	51.60	90.20				11.20	35.00	42.32			
11.40	52.90	90.50				11.60	35.60	42.40			
11.70	54.20	91.10				11.80	35.77	42.48			
12.00	55.90	91.30				12.30	35.94	42.56			
12.60	57.80	91.80				12.50	36.11	42.64			
12.90	59.60	92.40				12.80	36.28	42.72			
13.30	61.20	92.70				13.00	36.45	42.80			
13.70	63.30	93.50				13.20	36.62	42.88			
14.00	64.50	94.00				13.50	36.79	42.96			
14.50	65.40	94.40				13.70	36.96	43.04			
14.60	66.70	95.00				13.90	37.13	43.12			
14.90	68.20	95.50				14.20	37.30	43.20			
15.20	69.50	96.00				14.50	37.60	43.28			
15.60	70.80	96.60				14.70	37.90	43.36			
15.90	72.10	97.10				14.80	38.20	43.44			
16.20	73.40	97.80				15.20	38.60	43.52			
16.60	74.80	98.70				15.60	38.70	43.60			
16.90	75.90	99.40				15.80	39.00	43.68			
17.01	77.20	100.00				15.90	39.60	43.76			
17.12	78.50	100.70				16.20	39.80	43.84			
17.23	79.00	101.00				16.50	40.30	43.92			
17.34	80.90	101.40				16.80	40.70	44.00			
17.45	81.10	101.50				17.00	40.90	44.08			
17.56	82.10	101.90				17.20	40.92	44.16			
17.67	82.40	102.60				17.60	40.94	44.24			
17.78	82.48	103.00				18.10	40.96	44.32			
17.89	82.55	103.40				18.40	40.98	44.40			
18.00	82.63	103.70				18.80	41.00	44.48			
18.60	82.70	104.40				19.10	41.02	44.56			
18.90	82.78	105.00				19.40	41.04	44.64			
19.10	82.86	105.30				19.70	41.06	44.72			
19.40	82.93	106.10				20.10	41.08	44.80			
19.90	83.01	106.50				20.60	41.10	44.88			
20.10	83.09	107.70				20.90	41.12	44.96			
20.40	83.16	108.00				21.10	41.14	45.04			
20.90	83.24	108.70				21.50	41.16	45.12			
21.10	83.31	109.00				21.90	41.18	45.20			
22.00	83.39	109.40				22.10	41.20	45.28			
22.70	83.47	109.90				22.60	41.22	45.36			
23.00	83.54	110.40				22.80	41.24	45.44			
23.50	83.62	110.80				23.00	41.26	45.52			



ABC	
ABC Thickness (in)	13.75
Average CBR	82
Weighted CBR Average	66
Maximum CBR Value	100
Minimum CBR Value	15

Soil Subgrade	
Average CBR	69
Weighted Average	44
Max CBR	100
Min CBR	11



ABC	
ABC Thickness (in)	13.50
Average CBR	87
Weighted CBR Average	77
Maximum CBR Value	100
Minimum CBR Value	28

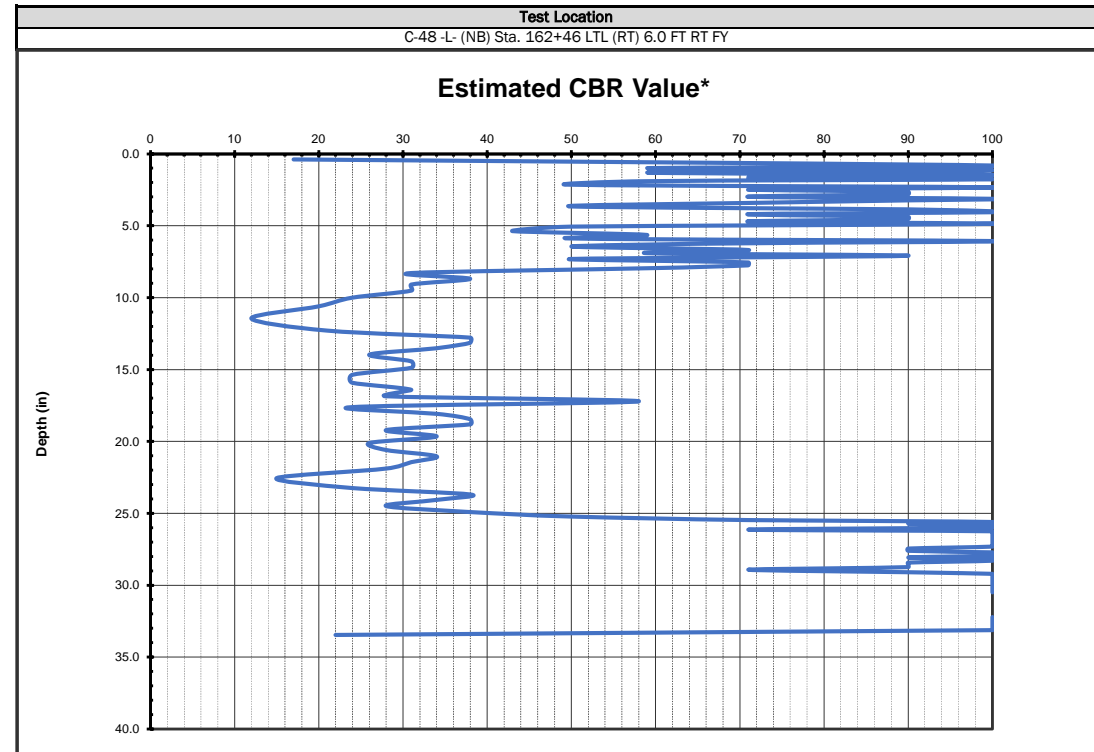
Soil Subgrade	
Average CBR	98
Weighted Average	92
Max CBR	100
Min CBR	58

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



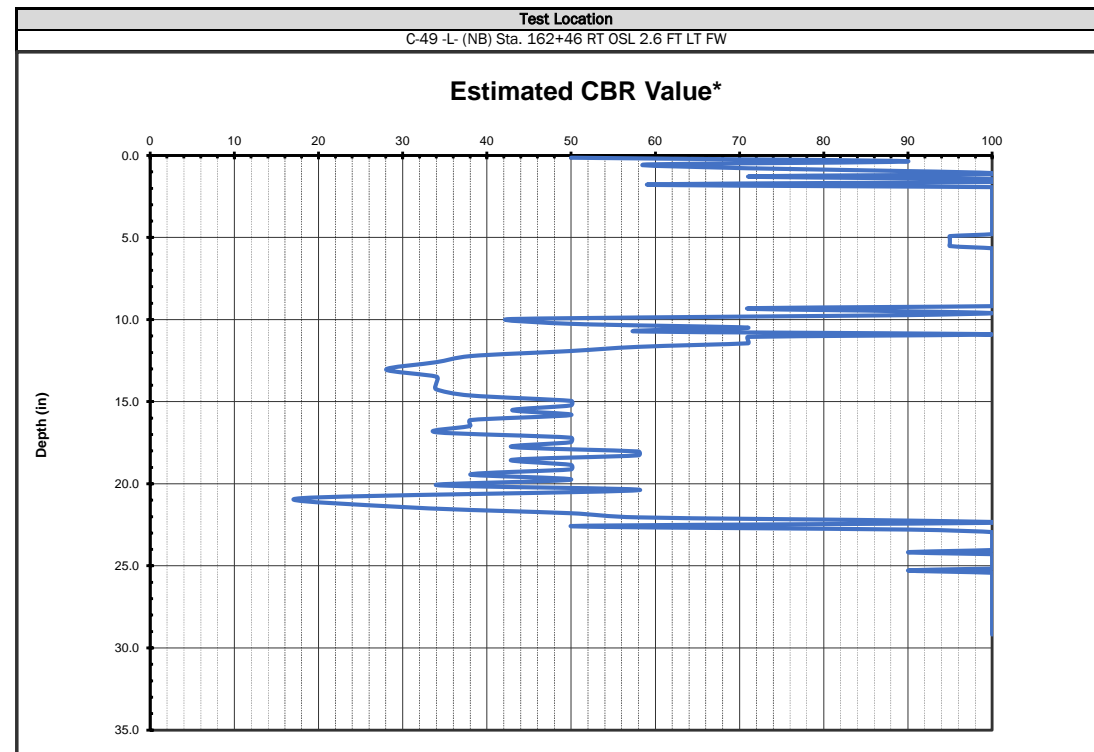


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run
C-48 -L- (NB) Sta. 162+46 LTL (RT) 6.0 FT RT FY				11/16 to 11/22/22	C-49 -L- (NB) Sta. 162+46 RT OSL 2.6 FT LT FW				11/16 to 11/22/22
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	ABC		5.0 ft Fill	DCP	Cumulative cm per blow	ABC		5.0 ft Fill
1.90	51.70	76.30			0.70	15.30	39.00	67.06	
2.20	52.90	76.36			1.10	15.50	39.80	67.29	
2.80	53.90	76.42			1.70	15.60	40.50	67.52	
3.00	55.00	76.49			2.20	15.90	41.40	67.75	
3.60	56.20	76.55			2.60	16.10	42.30	67.98	
3.90	58.30	76.61			2.80	16.30	43.30	68.21	
4.40	59.70	76.68			3.00	16.50	44.00	68.44	
4.50	60.60	76.74			3.50	16.80	44.70	68.67	
5.10	61.60	76.80			3.80	17.10	45.50	68.90	
5.80	62.80	76.87			4.00	17.40	46.10	69.14	
6.00	63.70	76.93			4.20	17.60	46.70	69.38	
6.50	64.40	76.99			4.80	17.90	47.50	69.62	
6.90	64.90	77.06			5.00	18.20	48.20	69.86	
7.30	65.10	77.12			5.30	18.30	48.90	70.10	
7.80	65.50	77.18			5.50	18.48	49.80	70.34	
8.00	65.60	77.25			5.70	18.66	50.50	70.58	
8.40	65.90	77.31			6.00	18.84	51.50	70.82	
8.90	66.10	77.37			6.30	19.02	52.10	71.06	
9.60	66.60	77.44			6.41	19.20	53.90	71.30	
10.00	66.70	77.50			6.52	19.38	55.00	71.50	
10.20	67.00	DCP REF			6.63	19.56	55.70	71.70	
10.40	67.20	AUGER 4.1			6.74	19.74	56.30	71.90	
10.90	67.50	TO 81.6 CM			6.85	19.92	56.70	72.10	
11.30	67.70	0.14			6.96	20.10	57.00	72.30	
11.70	68.00	0.27			7.07	20.22	57.70	72.42	
12.20	68.30	0.41			7.18	20.34	58.10	72.54	
12.50	68.60	0.55			7.29	20.46	58.40	72.66	
13.20	68.90	0.68			7.40	20.58	58.70	72.78	
14.00	69.20	0.82			7.51	20.70	59.00	72.90	
14.60	69.50	0.96			7.62	20.82	59.20	73.03	
15.30	69.90	1.09			7.73	20.94	59.50	73.16	
15.50	70.30	1.23			7.84	21.06	59.70	73.29	
16.00	70.50	1.37			7.95	21.18	60.00	73.42	
16.70	70.70	1.51			8.06	21.30	60.20	73.55	
17.20	70.90	1.64			8.17	21.51	60.50	73.68	
17.80	71.10	1.78			8.28	21.72	60.70	73.81	
18.20	71.50	1.92			8.39	21.93	60.90	73.94	
18.90	71.70	2.05			8.50	22.14	61.20	74.07	
19.40	72.00	2.19			8.65	22.35	61.60	74.20	
19.90	72.40	2.33			8.80	22.56	61.80	DCP REF	
20.50	72.80	2.46			8.95	22.77	61.98	60/3.0"	
21.60	73.20	2.60			9.10	22.98	62.16		
22.50	73.70	4.10			9.25	23.19	62.34		
23.60	74.10	DCP REF			9.40	23.40	62.52		
24.70	74.30	60/3.0"			9.55	23.90	62.70		
26.10	74.40				9.70	24.30	62.88		
27.70	74.60				9.85	24.50	63.06		
30.40	74.70				10.00	24.90	63.24		
32.00	74.90				10.22	25.70	63.42		
32.90	75.00				10.44	26.40	63.60		
33.80	75.10				10.66	26.90	63.80		
34.80	75.20				10.88	27.50	64.00		
36.10	75.30				11.10	27.80	64.40		
37.20	75.40				11.34	28.30	64.70		
38.30	75.50				11.58	28.80	65.00		
39.70	75.60				11.82	29.30	65.16		
41.10	75.66				12.06	29.90	65.32		
42.20	75.73				12.30	30.60	65.48		
43.40	75.79				12.68	31.50	65.64		
44.00	75.85				13.06	32.50	65.80		
45.40	75.92				13.44	33.70	65.96		
46.40	75.98				13.82	34.70	66.12		
47.30	76.04				14.20	35.70	66.28		
48.20	76.11				14.50	36.70	66.44		
49.40	76.17				14.70	37.60	66.60		
50.40	76.23				15.00	38.30	66.83		



ABC	
ABC Thickness (in)	10.75
Average CBR	69
Weighted CBR Average	55
Maximum CBR Value	100
Minimum CBR Value	17

Soil Subgrade	
Average CBR	81
Weighted Average	79
Max CBR	100
Min CBR	12



ABC	
ABC Thickness (in)	10.25
Average CBR	97
Weighted CBR Average	92
Maximum CBR Value	100
Minimum CBR Value	43

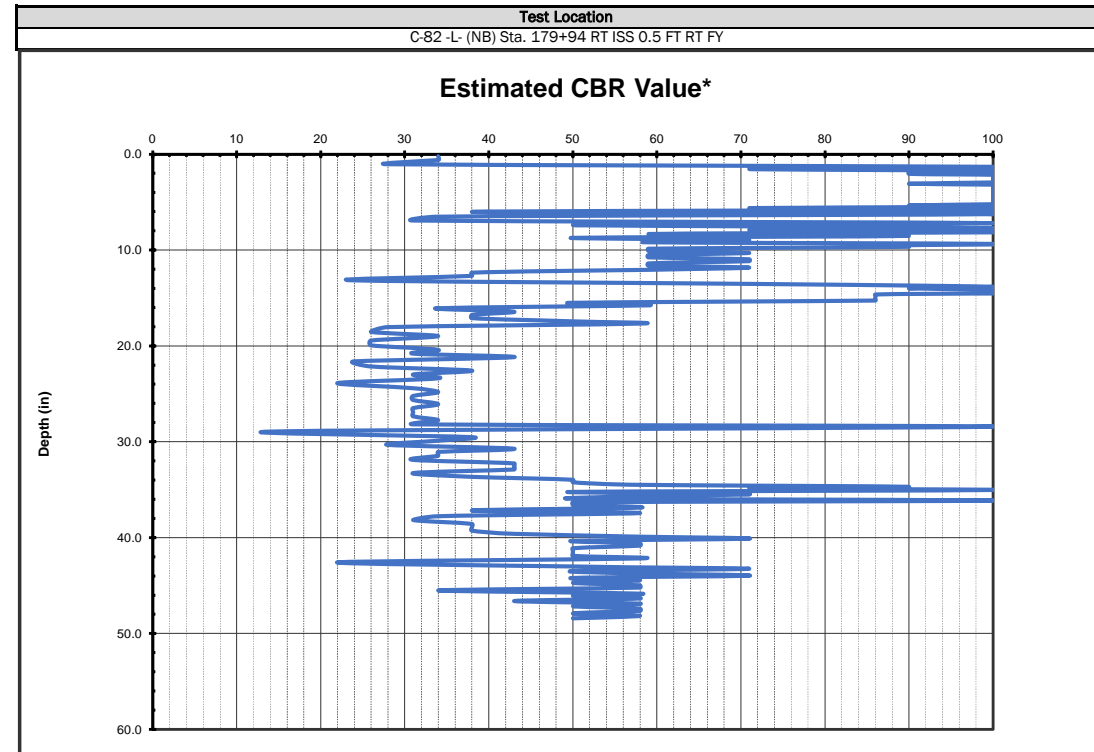
Soil Subgrade	
Average CBR	83
Weighted Average	64
Max CBR	100
Min CBR	18

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



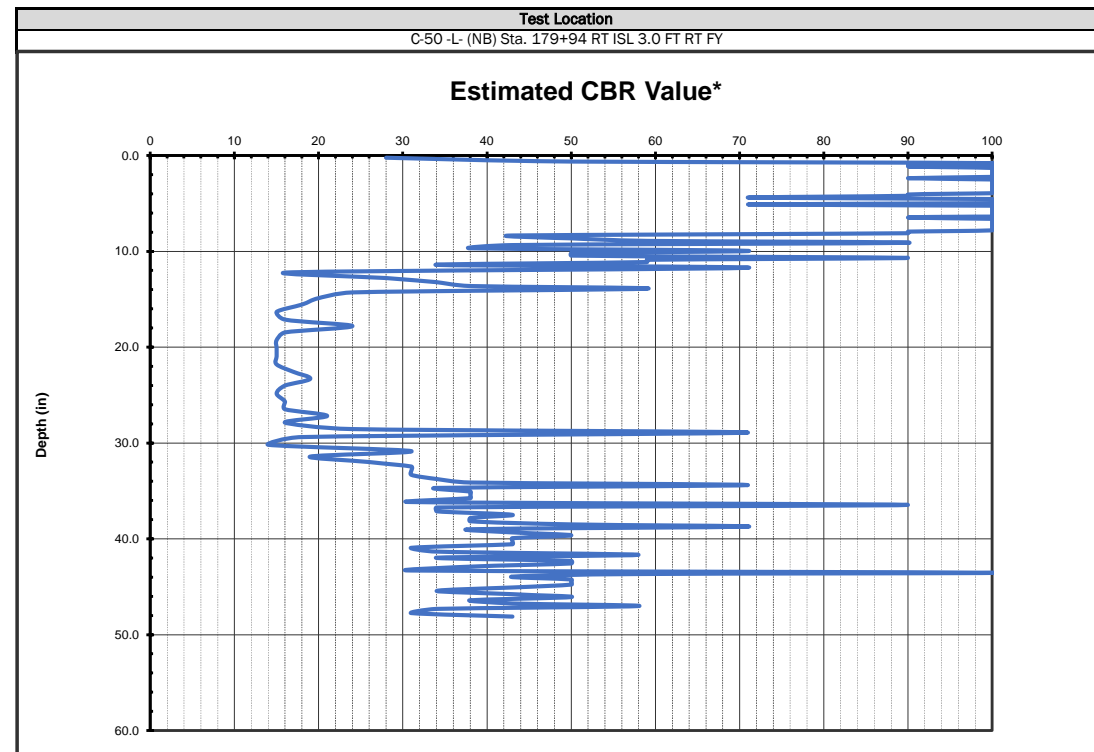


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
C-82 -L- (NB) Sta. 179+94 RT ISS 0.5 FT RT FY				11/16 to 11/22/22	C-50 -L- (NB) Sta. 179+94 RT ISL 3.0 FT RT FY				11/16 to 11/22/22		
Type	Test Interval			Datum	Cut/Fill	Type	Test Interval			Datum	Cut/Fill
DCP	Cumulative cm per blow			ABC	5.0 ft Fill	DCP	Cumulative cm per blow			ABC	5.0 ft Fill
1.00	24.30	71.00	120.70			1.20	16.60	84.10			
2.00	24.70	72.10	121.30			1.90	16.90	85.20			
3.20	25.30	72.30	122.00			2.10	17.10	86.20			
3.50	25.90	74.50	122.60			2.50	17.23	87.10			
3.70	26.40	75.40	123.30			2.70	17.36	87.60			
4.20	27.00	76.40				3.10	17.49	88.60			
4.40	27.60	77.60				3.40	17.62	89.50			
4.60	28.10	78.40				3.70	17.75	90.40			
5.00	28.60	79.40				4.00	17.88	91.30			
5.40	29.20	80.40				4.20	18.01	92.40			
5.50	29.80	81.50				4.50	18.14	92.80			
5.80	30.30	82.30				4.80	18.27	93.80			
5.90	30.90	83.10				5.00	18.40	94.80			
6.00	31.80	83.90				5.30	18.72	95.60			
6.30	32.70	85.00				5.40	19.04	96.50			
6.50	34.10	85.90				5.60	19.36	97.40			
6.70	34.60	86.60				5.80	19.68	98.10			
7.00	35.00	87.30				6.20	20.00	98.60			
7.30	35.30	87.90				6.40	20.40	99.50			
7.60	35.70	88.30				6.60	20.80	100.30			
8.00	36.00	88.80				6.80	21.60	101.00			
8.10	36.09	89.10				7.00	22.30	101.80			
8.30	36.18	89.80				7.20	22.90	102.60			
8.50	36.27	90.30				7.30	23.30	103.40			
8.60	36.36	90.90				7.40	24.10	104.50			
8.80	36.45	91.60				7.50	25.00	105.50			
9.10	36.54	91.90				7.60	25.50	106.10			
9.40	36.63	92.60				7.70	26.20	107.10			
9.70	36.72	93.30				7.80	26.90	107.80			
10.00	36.81	93.90				7.90	27.30	108.50			
10.10	36.90	94.80				8.00	27.90	109.40			
10.40	37.32	95.40				8.10	28.50	110.50			
10.70	37.74	96.40				8.20	29.50	110.60			
10.90	38.16	97.50				8.40	30.00	111.20			
11.10	38.58	98.40				8.60	31.90	112.00			
11.30	39.00	99.30				8.80	33.10	112.70			
11.60	39.70	100.20				9.00	34.10	113.40			
11.80	40.30	101.00				9.20	35.00	114.10			
12.10	41.30	101.60				9.38	35.60	114.90			
12.40	42.10	102.10				9.56	37.00	115.90			
12.70	43.00	102.80				9.74	38.60	116.70			
12.80	43.90	103.40				9.92	40.40	117.40			
13.10	44.60	104.00				10.10	42.50	118.30			
13.40	45.20	104.70				10.50	44.50	119.10			
13.80	46.40	105.40				10.90	45.90	119.70			
13.90	47.70	106.10				11.40	47.90	120.70			
14.00	48.70	106.80				11.70	50.00	121.80			
14.50	50.00	107.40				11.90	52.20	122.60			
14.80	51.30	108.90				12.20	54.30				
15.70	52.30	109.60				12.30	56.40				
16.00	53.40	110.10				12.50	58.30				
17.00	54.20	110.80				12.70	60.00				
18.10	55.60	111.40				13.20	62.00				
18.40	56.90	111.90				13.40	64.20				
19.10	57.80	112.60				13.70	66.20				
19.50	58.90	113.20				14.00	68.20				
19.80	59.90	113.90				14.20	69.80				
20.30	61.40	114.50				14.40	71.80				
20.60	62.50	115.10				14.70	73.20				
20.80	63.50	116.10				14.90	73.70				
21.40	64.60	116.70				15.10	75.50				
21.80	65.70	117.40				15.40	77.80				
22.50	66.70	118.00				15.60	78.90				
23.00	67.80	118.80				15.90	80.60				
23.60	68.90	119.40				16.10	81.90				
23.90	70.00	120.10				16.20	83.00				



ABC	
ABC Thickness (in)	16.25
Average CBR	84
Weighted CBR Average	70
Maximum CBR Value	100
Minimum CBR Value	24

Soil Subgrade	
Average CBR	46
Weighted Average	41
Max CBR	100
Min CBR	15



ABC	
ABC Thickness (in)	15.75
Average CBR	87
Weighted CBR Average	66
Maximum CBR Value	100
Minimum CBR Value	17

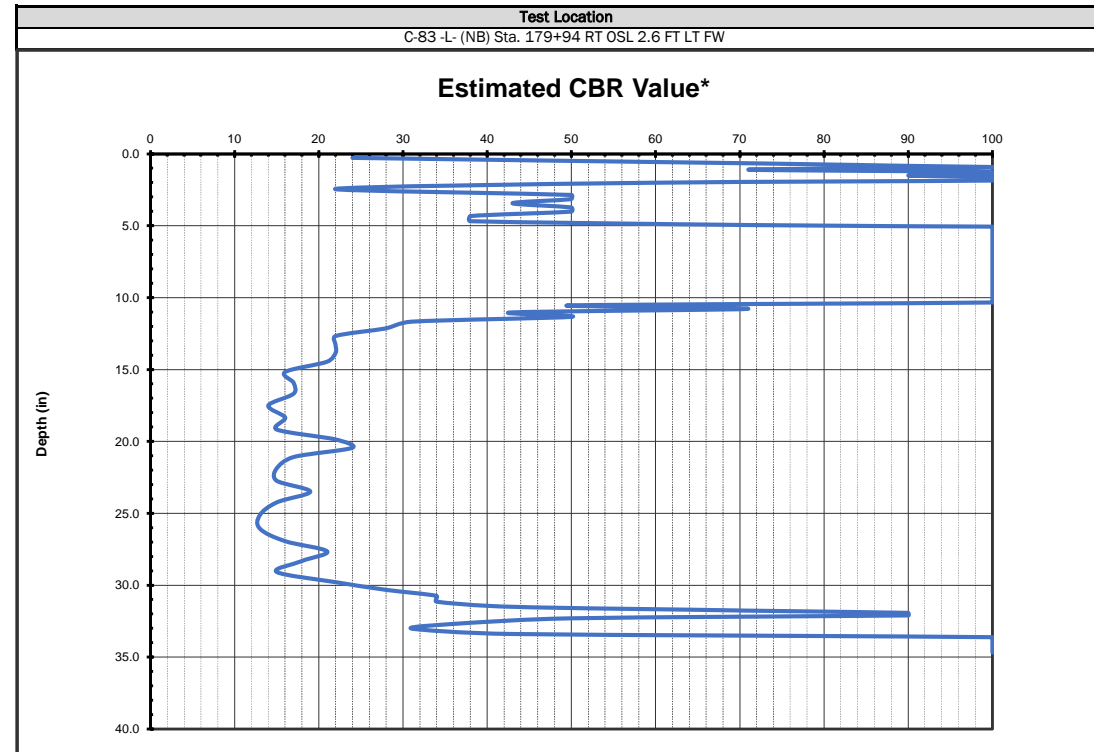
Soil Subgrade	
Average CBR	37
Weighted Average	29
Max CBR	100
Min CBR	14

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



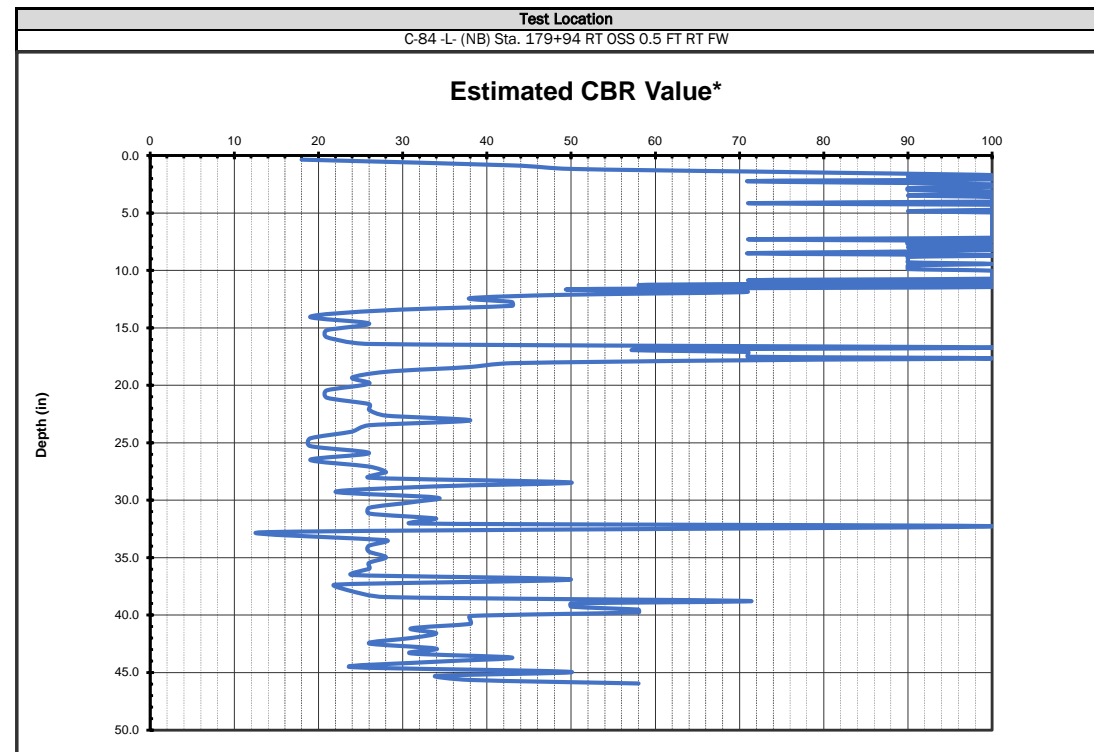


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run
C-83 -L- (NB) Sta. 179+94 RT OSL 2.6 FT LT FW				11/16 to 11/22/22	C-84 -L- (NB) Sta. 179+94 RT OSS 0.5 FT RT FW				11/16 to 11/22/22
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	ABC		5.0 ft Fill	DCP	Cumulative cm per blow	ABC		5.0 ft Fill
1.40	19.24	78.60			1.80	20.10	71.90		
1.90	19.41	79.60			2.60	20.50	72.60		
2.30	19.58	80.40			3.30	20.80	73.60		
2.50	19.75	80.90			3.80	21.00	75.10		
3.00	19.92	81.30			4.20	21.40	76.10		
3.30	20.09	81.70			4.50	21.90	77.20		
3.60	20.26	82.40			4.90	22.20	78.50		
4.00	20.43	83.30			5.20	22.60	79.80		
4.20	20.60	84.40			5.40	23.00	80.80		
4.40	20.81	85.20			5.90	23.40	81.90		
4.60	21.02	85.50			6.30	23.80	82.10		
4.80	21.23	85.80			6.40	24.10	84.40		
5.40	21.44	86.10			6.50	24.50	85.60		
6.90	21.65	86.15			6.80	24.90	86.90		
7.60	21.86	86.20			7.00	25.30	88.20		
8.30	22.07	86.25			7.40	25.60	89.40		
9.10	22.28	86.30			7.80	25.90	90.70		
9.80	22.49	86.35			8.00	26.10	92.00		
10.50	22.70	86.40			8.30	26.40	93.40		
11.40	22.87	86.45			8.40	26.60	94.10		
12.30	23.04	86.50			8.60	26.90	95.60		
12.80	23.21	86.55			9.00	27.20	97.00		
12.90	23.38	86.60			9.30	27.30	98.20		
13.10	23.55	86.65			9.50	27.80	98.70		
13.20	23.72	86.70			9.70	28.00	99.40		
13.34	23.89	86.75			10.00	28.30	100.10		
13.48	24.06	86.80			10.30	28.90	100.70		
13.62	24.23	86.85			10.80	29.20	101.30		
13.76	24.40	86.90			11.00	29.90	102.20		
13.90	24.74	86.95			11.30	30.40	103.10		
14.04	25.08	87.00			11.60	31.10	104.00		
14.18	25.42	87.05			11.90	32.00	105.10		
14.32	25.76	87.10			12.10	32.80	106.10		
14.46	26.10	87.14			12.50	33.60	107.20		
14.60	26.40	87.18			12.60	34.80	108.50		
14.80	27.10	87.22			12.90	36.50	109.50		
15.00	27.60	87.26			13.10	37.80	110.60		
15.20	28.40	87.30			13.28	39.40	111.40		
15.40	29.10	87.34			13.46	41.00	112.40		
15.60	30.20	87.38			13.64	42.30	113.80		
15.78	31.40	87.42			13.82	42.60	114.50		
15.96	32.90	87.46			14.00	43.20	115.50		
16.14	34.40	87.50			14.18	43.70	116.40		
16.32	35.90	87.54			14.36	44.20	117.00		
16.50	37.50	87.58			14.54	44.70			
16.62	39.50	87.62			14.72	45.00			
16.74	41.40	87.66			14.90	45.50			
16.86	43.30	87.70			15.10	46.30			
16.98	45.60	87.74			15.30	47.20			
17.10	47.60	87.78			15.50	48.40			
17.30	49.70	87.82			15.70	49.80			
17.50	51.20	87.86			15.90	51.10			
17.70	52.60	87.90			16.10	52.70			
17.90	54.50	87.94			16.30	54.30			
18.10	56.60	87.98			16.50	55.60			
18.18	58.80	88.02			16.70	56.90			
18.26	60.50	88.06			16.90	58.10			
18.34	62.60	88.10			17.18	59.00			
18.42	65.00	DCP REF			17.46	60.30			
18.50	67.40	50/1.8"			17.74	61.70			
18.58	69.40				18.02	63.40			
18.66	71.00				18.30	65.10			
18.74	72.80				18.80	66.40			
18.82	74.90				19.00	68.10			
18.90	76.40				19.40	69.40			
19.07	77.60				19.80	70.60			



ABC	
ABC Thickness (in)	8.00
Average CBR	91
Weighted CBR Average	71
Maximum CBR Value	100
Minimum CBR Value	22

Soil Subgrade	
Average CBR	76
Weighted Average	33
Max CBR	100
Min CBR	13



ABC	
ABC Thickness (in)	10.00
Average CBR	94
Weighted CBR Average	85
Maximum CBR Value	100
Minimum CBR Value	18

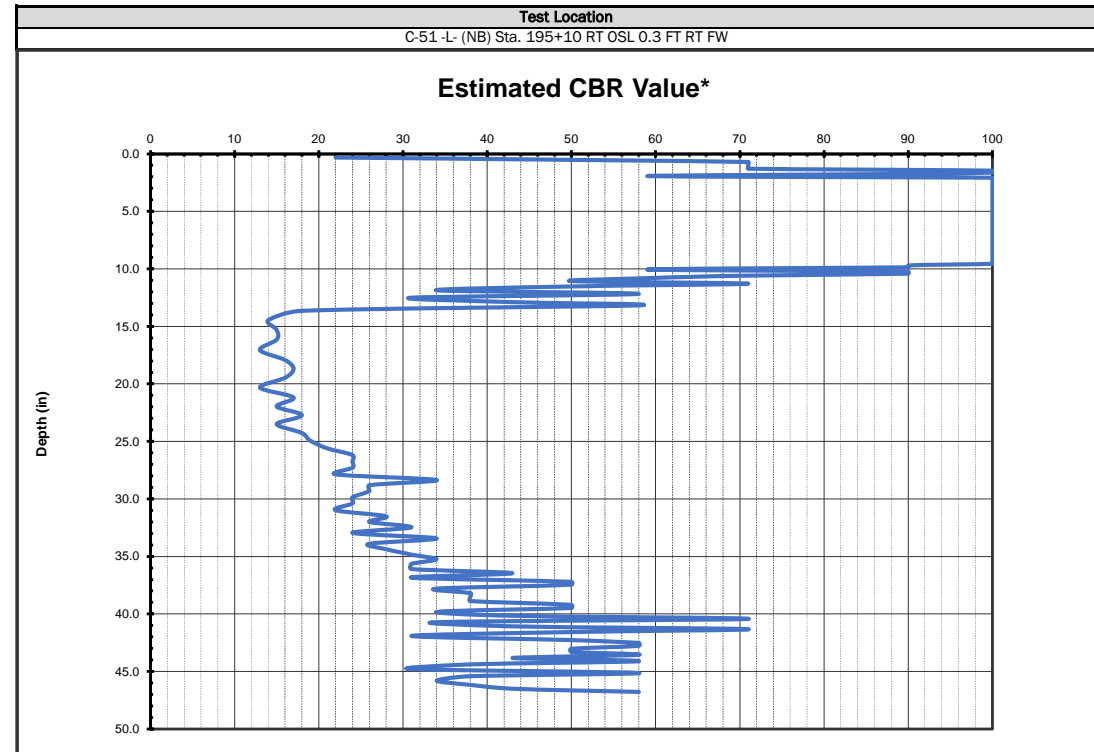
Soil Subgrade	
Average CBR	45
Weighted Average	34
Max CBR	100
Min CBR	14

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



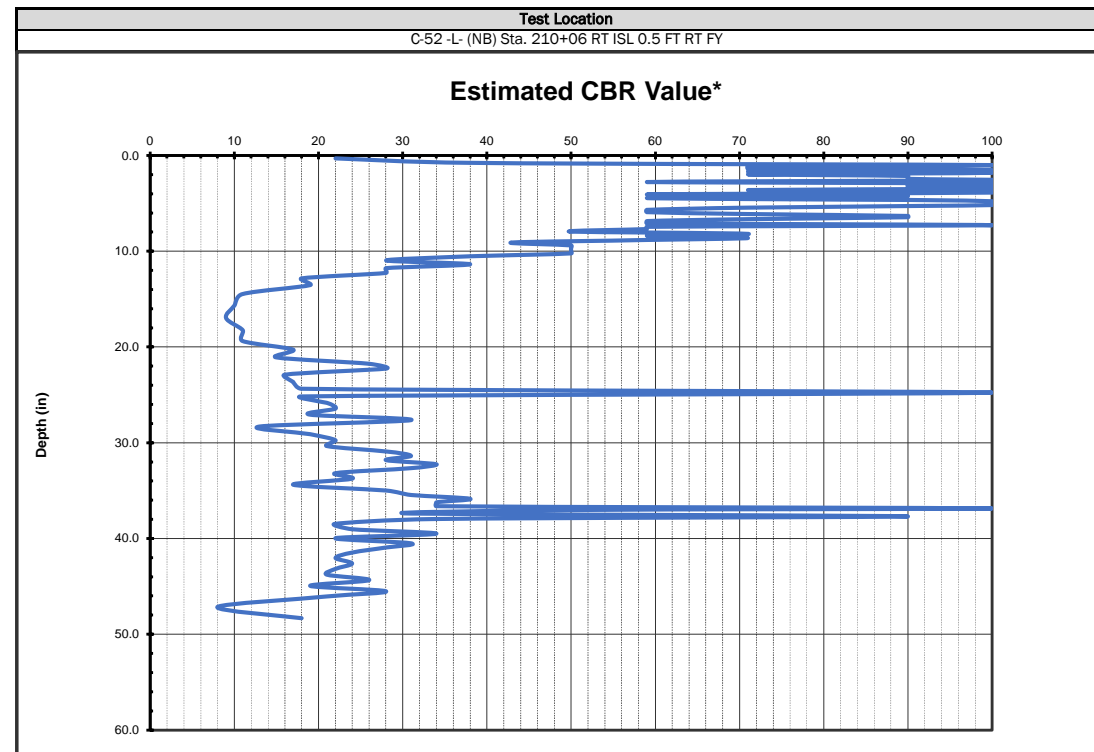


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
				11/16 to 11/22/22	C-52-L-(NB) Sta. 210+06 RT ISL 0.5 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.50	16.28 32.30 113.20			1.50	52.50		
2.00	16.44 33.10 114.30			2.40	54.60		
2.50	16.60 33.70 114.90			2.70	55.90		
3.00	16.78 35.50 115.80			3.20	57.10		
3.50	16.96 37.80 116.80			3.70	59.10		
3.80	17.14 39.90 117.70			4.00	61.00		
4.00	17.32 42.10 118.50			4.50	62.80		
4.20	17.50 44.50 119.10			4.70	63.00		
4.60	17.72 46.50			5.20	64.80		
5.20	17.94 48.40			5.60	66.40		
5.30	18.16 50.40			6.00	67.90		
5.60	18.38 52.80			6.40	69.60		
5.90	18.60 54.70			6.70	70.70		
6.00	18.80 56.80			7.30	73.10		
6.12	18.90 58.60			7.60	74.80		
6.24	19.10 60.70			8.00	76.30		
6.36	19.20 62.50			8.40	77.90		
6.48	19.40 64.20			8.70	79.10		
6.60	19.60 65.80			8.90	80.20		
6.80	19.67 67.20			9.40	81.40		
7.00	19.74 68.60			9.70	82.40		
7.20	19.81 70.00			10.00	83.50		
7.40	19.88 71.50			10.60	85.00		
7.60	19.95 72.50			11.00	86.40		
7.80	20.02 73.80			11.60	88.30		
8.00	20.09 75.10			12.00	89.50		
8.20	20.16 76.50			12.20	90.60		
8.40	20.23 77.90			12.50	91.50		
8.60	20.30 79.40			12.70	92.50		
8.78	20.46 80.60			13.00	93.50		
8.96	20.62 81.90			13.20	93.70		
9.14	20.78 83.00			13.60	94.40		
9.32	20.94 84.40			14.10	95.50		
9.50	21.10 85.40			14.70	95.90		
9.70	21.26 86.70			15.30	96.90		
9.90	21.42 87.90			15.80	98.40		
10.10	21.58 89.00			16.20	99.80		
10.30	21.74 90.00			16.60	100.80		
10.50	21.90 91.10			17.10	102.30		
10.66	22.01 92.20			17.70	103.40		
10.82	22.12 93.00			18.30	104.60		
10.98	22.23 94.10			18.60	106.00		
11.14	22.34 94.80			19.20	107.50		
11.30	22.45 95.50			19.80	108.90		
11.54	22.56 96.50			20.50	110.40		
11.78	22.67 97.40			21.00	112.00		
12.02	22.78 98.30			21.60	113.30		
12.26	22.89 99.20			22.10	115.00		
12.50	23.00 99.90			22.70	116.20		
12.76	23.28 100.60			23.50	117.80		
13.02	23.56 101.60			24.20	121.80		
13.28	23.84 102.40			24.90	123.60		
13.54	24.12 102.90			25.60			
13.80	24.40 103.90			26.30			
14.02	24.80 104.70			27.20			
14.24	25.20 105.20			28.40			
14.46	25.80 105.90			29.30			
14.68	26.20 107.00			30.50			
14.90	26.60 107.70			31.70			
15.08	27.10 108.30			33.50			
15.26	27.70 108.90			35.20			
15.44	28.40 109.60			38.20			
15.62	28.90 110.30			41.40			
15.80	29.60 110.90			44.80			
15.96	30.60 111.70			47.80			
16.12	31.20 112.30			50.60			



ABC	
ABC Thickness (in)	12.00
Average CBR	95
Weighted CBR Average	86
Maximum CBR Value	100
Minimum CBR Value	22

Soil Subgrade	
Average CBR	34
Weighted Average	29
Max CBR	71
Min CBR	13



ABC	
ABC Thickness (in)	10.50
Average CBR	76
Weighted CBR Average	68
Maximum CBR Value	100
Minimum CBR Value	22

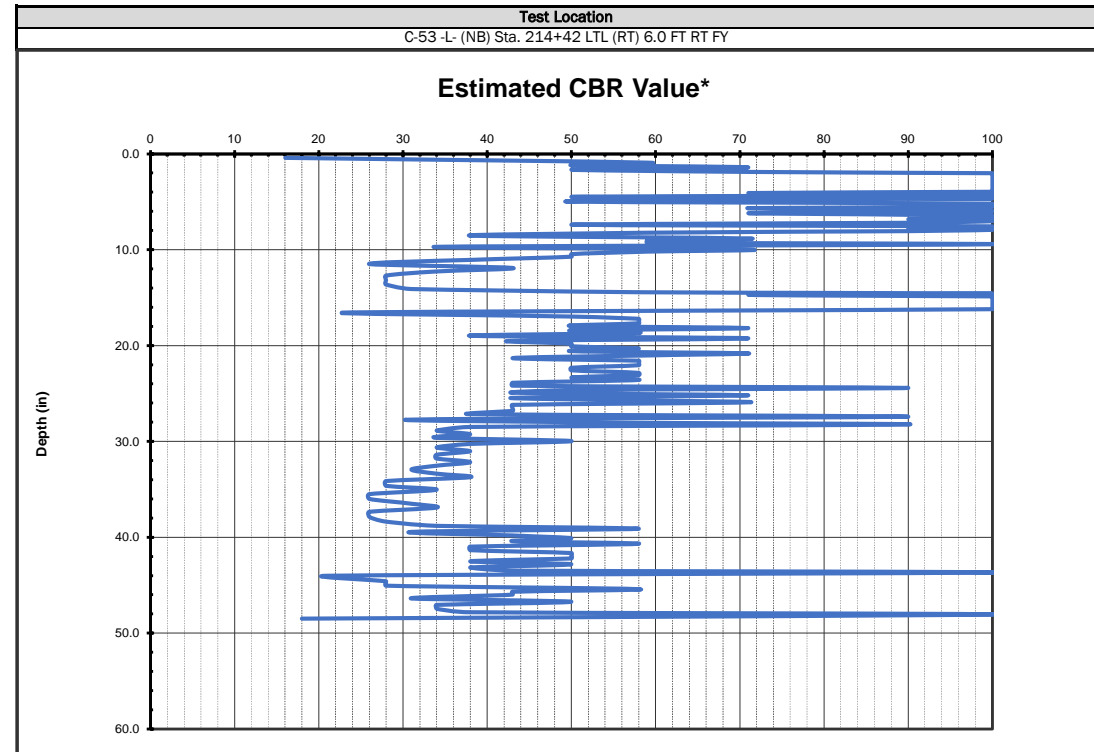
Soil Subgrade	
Average CBR	27
Weighted Average	22
Max CBR	100
Min CBR	8

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



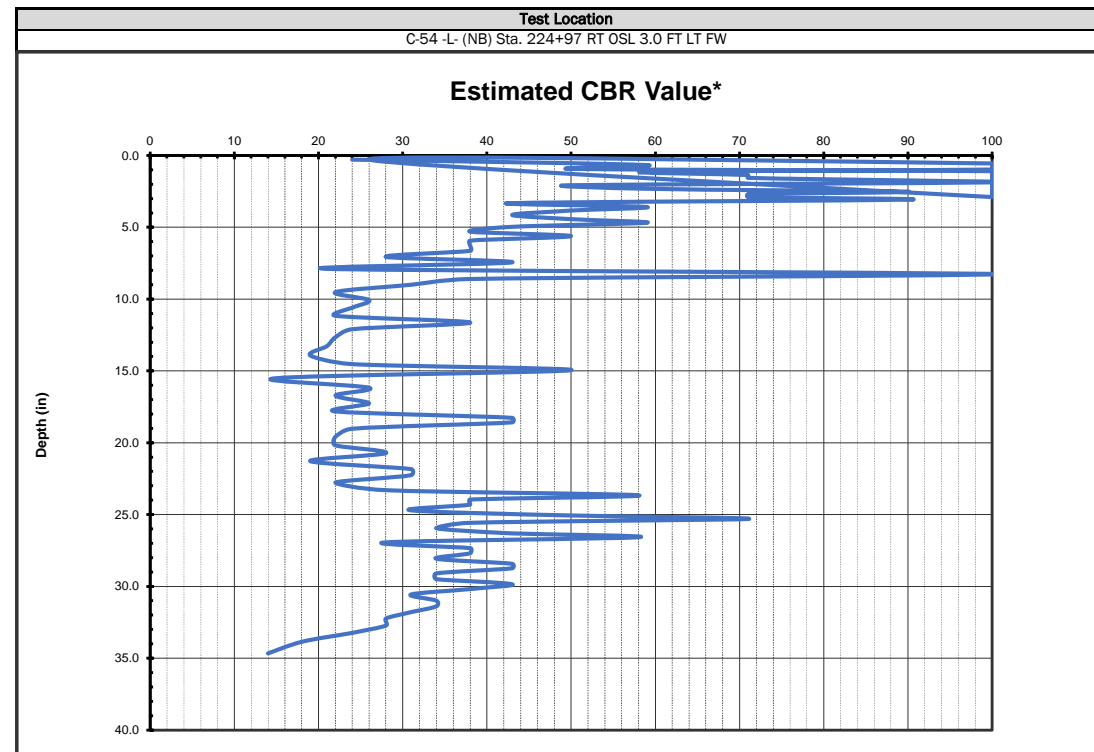


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
C-53 -L- (NB) Sta. 214+42 LTL (RT) 6.0 FT RT FY				11/16 to 11/22/22	C-54 -L- (NB) Sta. 224+97 RT OSL 3.0 FT LT FW	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
2.00	23.80	65.60		1.40	2.34	66.40	
2.60	24.10	66.10		2.00	2.60	67.20	
3.30	25.10	66.90		2.70	3.20	67.80	
3.80	25.60	67.70		2.80	3.70	69.00	
4.50	26.20	68.50		2.91	4.20	69.90	
5.00	26.90	69.40		3.02	4.60	70.80	
5.20	27.60	69.80		3.13	4.90	71.80	
5.30	28.50	70.90		3.24	5.60	72.60	
5.60	29.80	71.50		3.35	6.20	73.40	
5.76	30.60	71.90		3.46	6.60	74.40	
5.92	31.60	72.80		3.57	7.10	75.40	
6.08	32.80	73.80		3.68	7.60	76.20	
6.24	34.00	74.70		3.79	8.00	77.10	
6.40	35.20	75.70		3.90	8.80	78.20	
6.62	36.30	76.40		3.98	9.40	79.20	
6.84	36.90	77.30		4.06	10.10	80.20	
7.06	37.10	78.30		4.14	10.90	81.30	
7.28	37.60	79.20		4.22	11.60	82.50	
7.50	37.90	80.20		4.30	12.20	83.70	
7.70	38.20	81.20		4.38	13.00	85.10	
7.90	38.50	82.10		4.46	13.90	86.90	
8.10	38.78	83.10		4.54	14.60	89.20	
8.30	39.06	84.20		4.62	15.50		
8.50	39.34	85.20		4.70	16.40		
8.70	39.62	86.10		4.90	17.30		
9.00	39.90	87.30		5.10	18.50		
9.20	40.18	88.50		5.30	19.30		
9.40	40.46	89.50		5.50	20.80		
9.70	40.74	90.80		5.70	21.00		
9.90	41.02	92.10		5.76	21.40		
10.10	41.30	93.20		5.82	22.30		
10.60	42.70	94.20		5.88	23.40		
10.90	43.40	95.50		5.94	24.90		
11.00	44.00	96.80		6.00	26.20		
11.70	44.60	98.00		6.06	27.60		
11.80	45.20	99.00		6.12	29.10		
12.30	45.90	99.60		6.18	30.00		
13.00	46.40	100.70		6.24	31.40		
13.30	47.10	101.50		6.30	32.90		
13.60	47.70	102.20		6.35	34.50		
13.90	48.60	103.00		6.40	36.20		
14.10	49.10	103.60		6.45	37.60		
14.60	49.90	104.50		6.50	38.30		
15.00	50.60	105.40		6.55	40.40		
15.20	51.30	106.10		6.60	41.70		
15.40	51.90	106.80		6.65	43.20		
15.90	52.60	107.50		6.70	44.50		
16.30	53.10	108.40		6.75	46.00		
16.50	53.70	109.10		6.80	46.80		
16.60	54.50	110.00		6.86	47.60		
16.80	55.10	110.80		6.92	49.00		
17.10	55.70	111.00		6.98	50.50		
17.50	56.30	112.60		7.04	52.00		
17.70	57.00	113.80		7.10	53.20		
18.00	57.70	115.00		7.16	54.90		
18.40	58.30	115.60		7.22	56.00		
19.10	58.90	116.40		7.28	57.10		
19.30	59.60	117.20		7.34	58.60		
19.60	60.20	118.30		7.40	59.80		
20.00	61.00	119.00		DCP REF	60.40		
20.20	61.80	120.00		AUGER 18.8	61.30		
20.60	62.20	121.00		TO 27.00	62.20		
21.20	62.90	121.90		1.30	63.30		
22.10	63.70	122.20		1.56	64.00		
22.60	64.20	124.00		1.82	64.50		
23.20	65.00			2.08	65.40		



ABC	
ABC Thickness (in)	13.00
Average CBR	82
Weighted CBR Average	65
Maximum CBR Value	100
Minimum CBR Value	16

Soil Subgrade	
Average CBR	52
Weighted Average	44
Max CBR	100
Min CBR	18



ABC	
ABC Thickness (in)	11.75
Average CBR	81
Weighted CBR Average	52
Maximum CBR Value	100
Minimum CBR Value	22

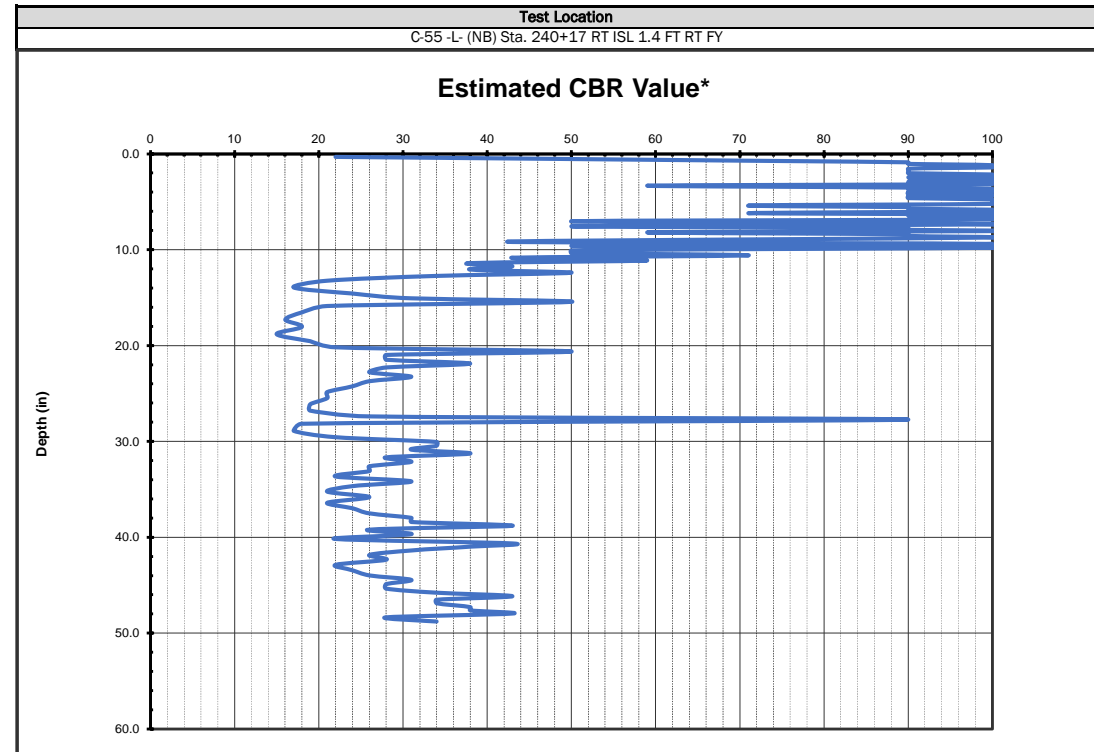
Soil Subgrade	
Average CBR	33
Weighted Average	29
Max CBR	71
Min CBR	14

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



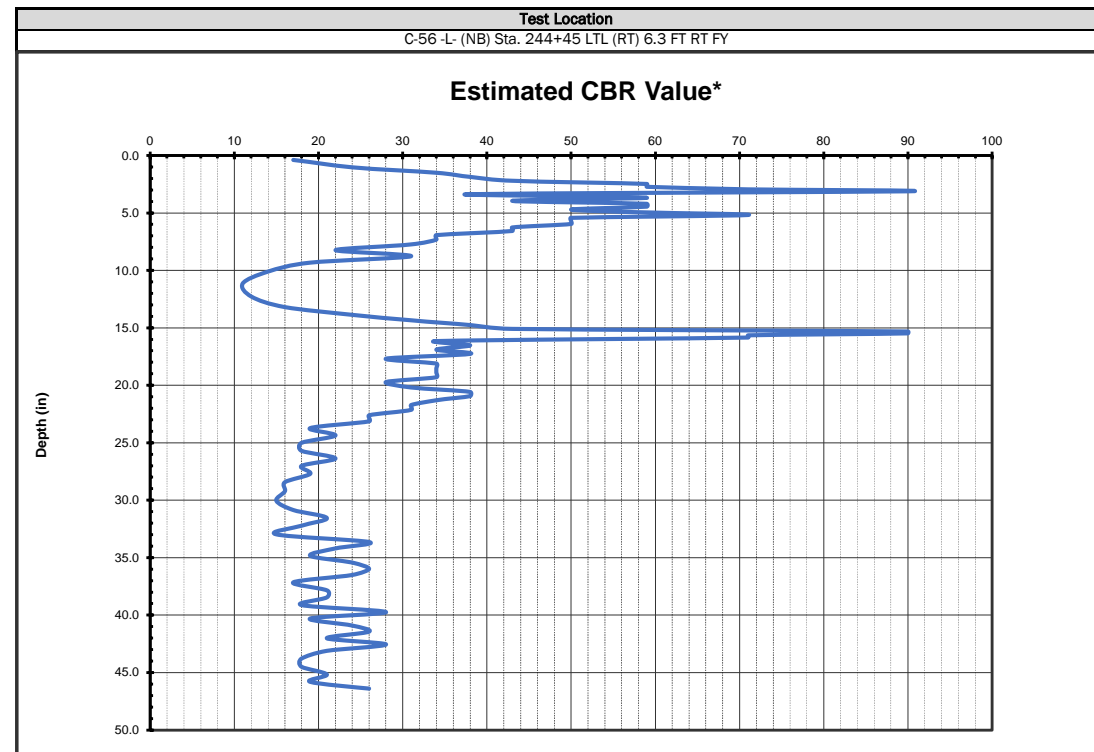


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-55 -L- (NB) Sta. 240+17 RT ISL 1.4 FT RT FY				11/16 to 11/22/22	C-56 -L- (NB) Sta. 244+45 LTL (RT) 6.3 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	7.0 ft Fill
1.50	25.20	106.90		1.90	75.20		
2.00	25.90	108.10		3.30	77.40		
2.40	26.60	109.60		4.30	79.30		
2.80	27.10	111.00		5.20	80.90		
3.10	27.90	112.30		6.00	82.70		
3.40	28.50	113.40		6.60	84.80		
3.70	29.40	114.60		7.20	86.10		
4.10	30.20	115.80		7.70	87.60		
4.50	31.10	116.80		8.10	89.30		
4.90	31.80	117.60		9.00	90.70		
5.30	32.80	118.60		9.60	92.00		
5.50	34.40	119.60		10.40	93.40		
5.80	36.30	120.50		11.00	95.30		
6.00	37.70	121.40		11.60	96.90		
6.40	38.80	122.20		12.30	98.50		
6.70	39.50	123.40		12.90	100.30		
7.00	41.10	124.40		13.40	101.50		
7.20	42.90			14.10	103.20		
7.60	44.90			14.80	104.60		
7.90	46.70			15.50	105.90		
8.10	48.80			16.30	107.50		
8.70	50.50			17.10	108.70		
9.10	52.00			18.10	110.30		
9.40	52.70			19.10	112.10		
9.80	53.90			20.20	113.90		
10.00	55.10			21.70	115.50		
10.40	56.00			22.80	117.20		
10.80	57.20			24.50	118.50		
10.90	58.50			26.80			
11.10	59.60			29.80			
11.50	60.90			32.50			
11.90	62.30			34.50			
12.20	63.90			35.90			
12.40	65.50			37.00			
12.60	67.20			37.90			
12.80	68.90			38.70			
13.10	70.20			39.10			
13.40	70.60			39.50			
13.90	72.40			40.00			
14.30	74.30			40.50			
14.70	75.80			41.50			
14.80	76.80			42.40			
15.10	77.80			43.40			
15.40	78.90			44.30			
15.90	79.80			45.50			
16.20	81.00			46.50			
16.60	82.10			47.50			
16.90	83.40			48.50			
17.20	84.70			49.50			
17.50	86.20			50.70			
18.20	87.30			51.80			
18.60	88.70			52.70			
18.80	90.30			53.60			
19.50	91.60			54.60			
19.90	93.20			55.70			
20.30	94.60			56.80			
20.50	95.90			58.10			
21.10	97.00			59.40			
21.50	98.10			61.10			
21.90	98.90			62.60			
22.40	100.20			64.40			
22.90	101.30			66.20			
23.70	102.80			67.70			
24.00	103.60			69.50			
24.70	104.50			71.20			
24.80	105.60			73.20			



ABC	
ABC Thickness (in)	12.25
Average CBR	85
Weighted CBR Average	74
Maximum CBR Value	100
Minimum CBR Value	22

Soil Subgrade	
Average CBR	29
Weighted Average	27
Max CBR	90
Min CBR	15



ABC	
ABC Thickness (in)	10.00
Average CBR	46
Weighted CBR Average	39
Maximum CBR Value	90
Minimum CBR Value	17

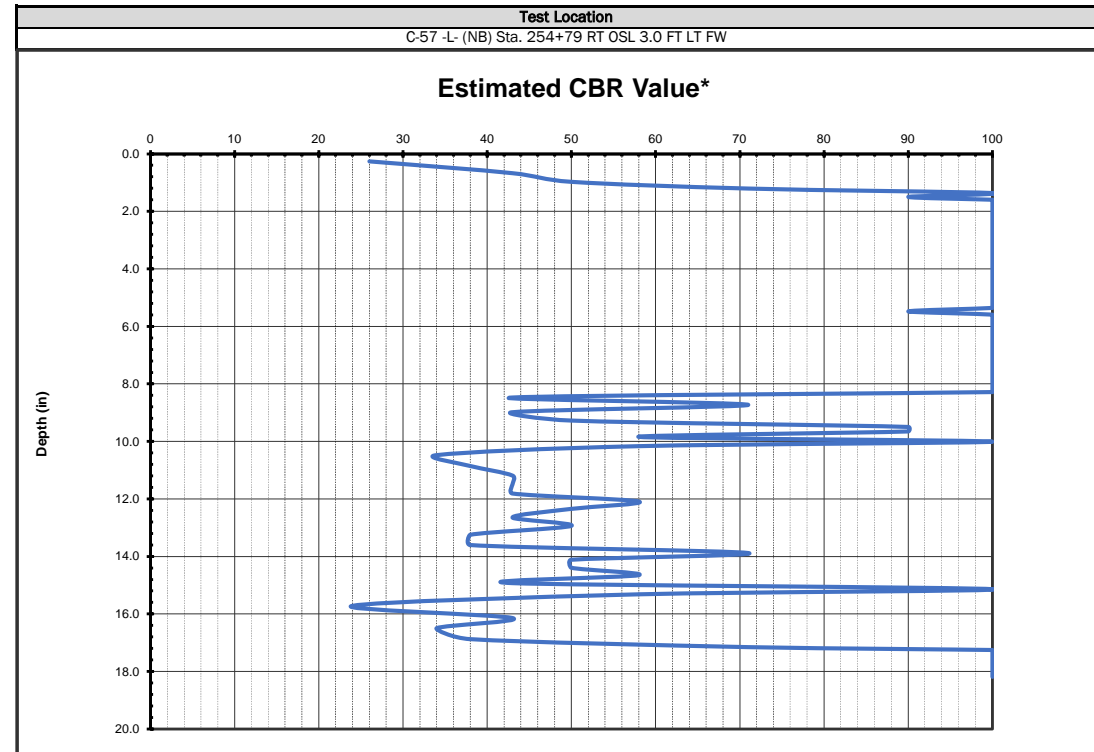
Soil Subgrade	
Average CBR	28
Weighted Average	23
Max CBR	90
Min CBR	11

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



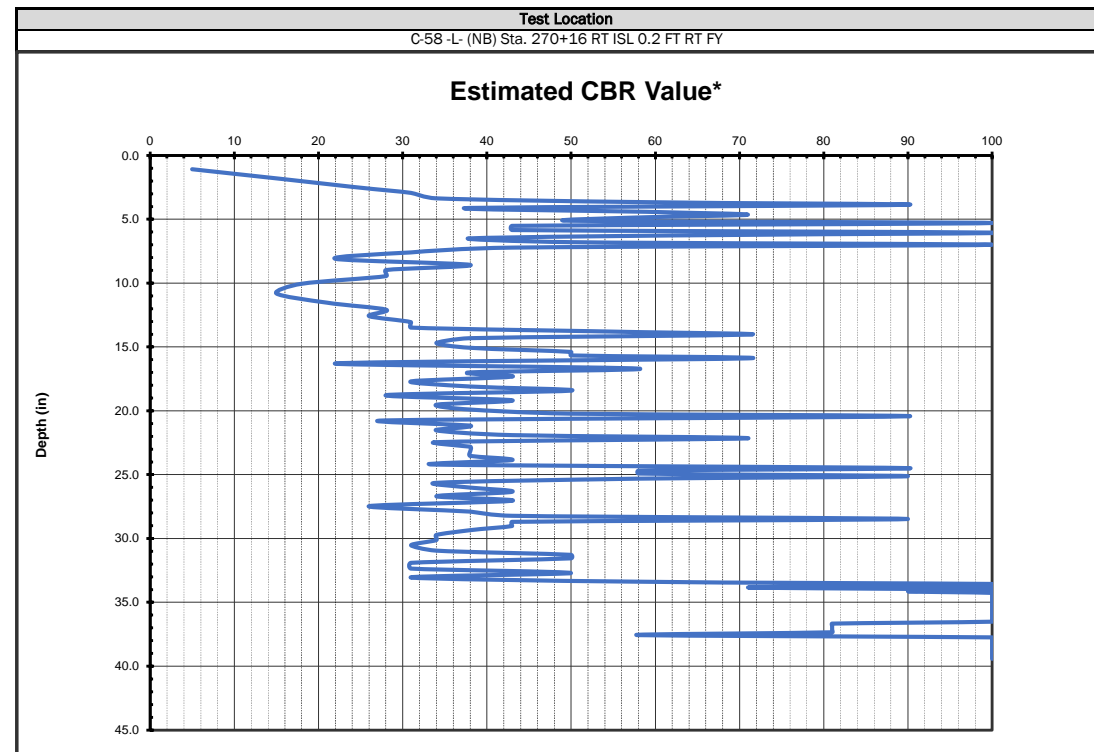


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run
C-57 -L- (NB) Sta. 254+79 RT OSL 3.0 FT LT FW				11/16 to 11/22/22	C-58 -L- (NB) Sta. 270+16 RT ISL 0.2 FT RT FY				11/16 to 11/22/22
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		ABC	5.0 ft Fill	DCP	Cumulative cm per blow		ABC	5.0 ft Fill
1.30	15.18	39.20			5.50	63.60	95.10		
2.10	15.26	40.60			6.90	64.00	95.70		
2.80	15.34	41.40			8.00	64.60	96.00		
3.30	15.42	42.40			9.00	65.60	96.30		
3.60	15.50	43.30			9.60	66.50	96.60		
4.00	15.63	43.80			10.00	67.30	96.90		
4.10	15.76	43.85			10.90	68.30	97.10		
4.40	15.89	43.90			11.50	69.10	97.20		
4.60	16.02	43.94			12.00	70.40	97.50		
4.83	16.15	43.99			12.60	71.30	97.54		
5.06	16.28	44.04			13.30	72.10	97.59		
5.29	16.41	44.09			13.60	72.50	97.63		
5.52	16.54	44.14			14.40	73.30	97.67		
5.75	16.67	44.18			15.20	74.10	97.72		
5.98	16.80	44.23			15.50	75.00	97.76		
6.21	16.90	44.28			16.00	76.00	97.80		
6.44	17.00	44.33			16.90	77.00	97.85		
6.67	17.10	44.38			17.60	78.10	97.89		
6.90	17.20	44.42			17.90	79.10	97.93		
7.08	17.30	44.47			18.70	79.80	97.98		
7.26	17.40	44.52			19.80	80.50	98.02		
7.44	17.50	44.57			21.30	81.60	98.06		
7.62	17.60	44.62			22.20	82.70	98.11		
7.80	17.70	44.66			23.40	83.40	98.15		
7.98	17.80	44.71			24.60	84.50	98.19		
8.16	18.10	44.76			26.40	85.10	98.24		
8.34	18.40	44.81			28.50	85.40	98.28		
8.52	18.70	44.86			30.10	85.70	98.32		
8.70	19.00	44.90			31.30	86.20	98.37		
8.98	19.30	44.95			32.60	86.50	98.41		
9.26	19.54	45.00			33.70	86.90	98.45		
9.54	19.78	45.05			34.80	87.10	98.50		
9.82	20.02	45.10			35.40	87.25	98.54		
10.10	20.26	45.14			35.90	87.39	98.58		
10.24	20.50	45.19			36.80	87.54	98.63		
10.38	20.62	45.24			37.80	87.68	98.67		
10.52	20.74	45.29			38.70	87.83	98.71		
10.66	20.86	45.34			39.40	87.97	98.76		
10.80	20.98	45.38			40.10	88.12	98.80		
10.95	21.10	45.43			40.60	88.26	98.87		
11.10	21.90	45.48			42.10	88.41	98.94		
11.25	22.40	45.53			42.70	88.55	99.01		
11.40	23.20	45.58			43.60	88.70	99.08		
11.55	23.90	45.62			44.40	88.84	99.15		
11.70	24.30	45.67			45.50	88.99	99.22		
11.85	24.70	45.72			46.40	89.13	99.29		
12.00	25.30	45.77			47.10	89.28	99.36		
12.15	25.50	45.82			48.30	89.42	99.43		
12.30	26.10	45.86			49.10	89.57	99.50		
12.40	27.10	45.91			50.10	89.71	99.57		
12.60	28.00	45.96			51.00	89.86	99.64		
12.80	28.80	46.01			51.70	90.00	99.71		
13.00	29.60	46.06			52.10	90.29	99.78		
13.20	30.40	46.10			53.30	90.58	99.85		
13.30	31.00	46.15			54.20	90.87	99.92		
13.50	31.70	46.20			55.20	91.16	99.99		
13.70	32.50	DCP REF			56.00	91.45	100.06		
14.10	33.20	90/LD*			56.50	91.74	100.13		
14.30	34.10				57.50	92.03	100.20		
14.50	35.00				58.40	92.32	DCP REF		
14.70	35.50				59.30	92.61	90/LD*		
14.78	36.20				60.20	92.90			
14.86	36.90				61.00	93.34			
14.94	37.50				62.00	93.78			
15.02	38.30				62.40	94.22			
15.10	38.60				63.00	94.66			



ABC	
ABC Thickness (in)	9.5
Average CBR	96
Weighted CBR Average	86
Maximum CBR Value	100
Minimum CBR Value	26

Soil Subgrade	
Average CBR	83
Weighted Average	53
Max CBR	100
Min CBR	24



ABC	
ABC Thickness (in)	11.0
Average CBR	48
Weighted CBR Average	32
Maximum CBR Value	100
Minimum CBR Value	5

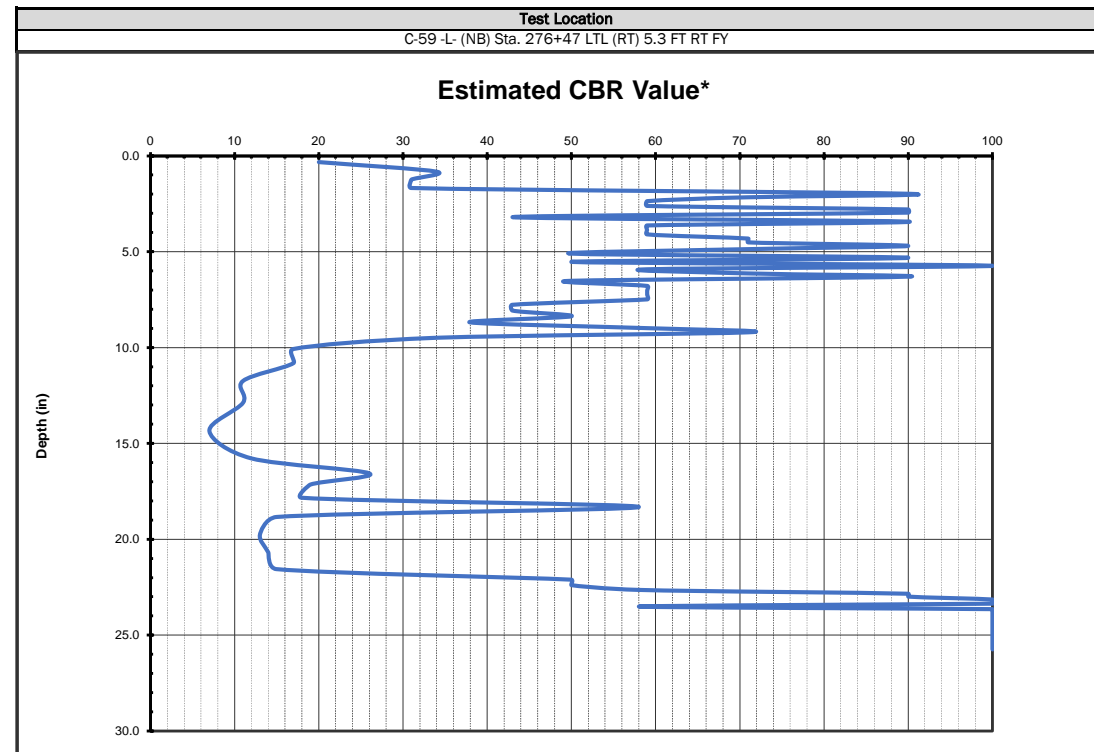
Soil Subgrade	
Average CBR	77
Weighted Average	51
Max CBR	100
Min CBR	21

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



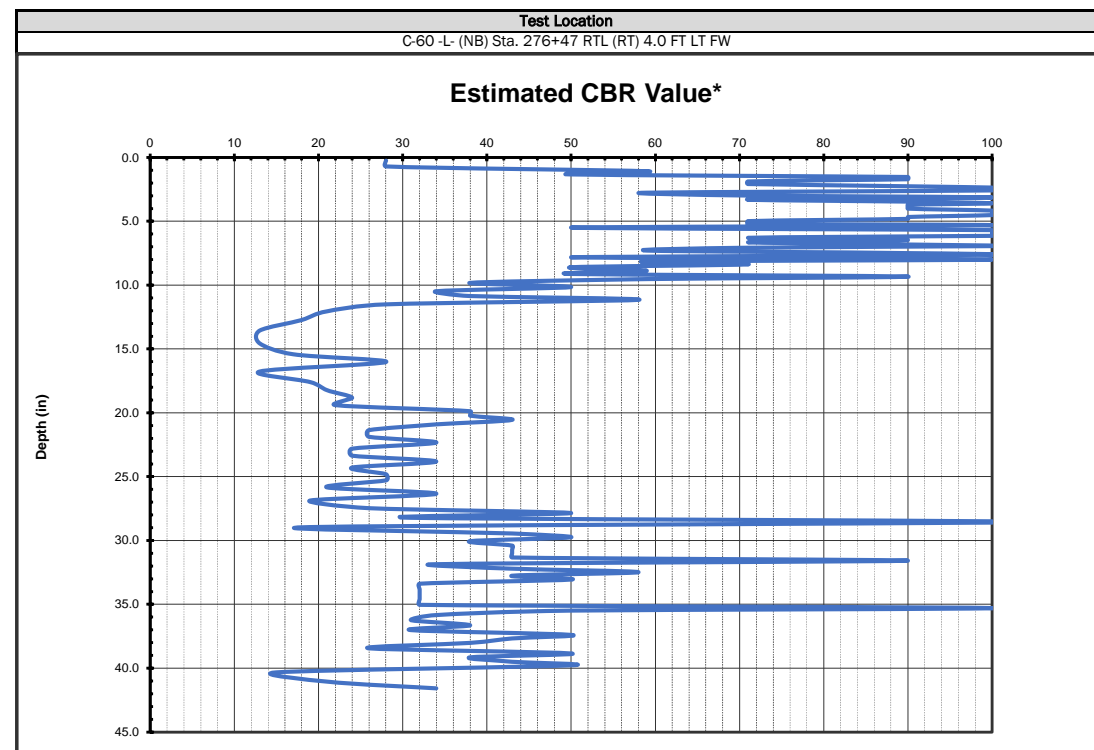


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-59 -L- (NB) Sta. 276+47 LTL (RT) 5.3 FT RT FY				11/16 to 11/22/22	C-60 -L- (NB) Sta. 276+47 RTL (RT) 4.0 FT LT FW	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.60	60.48			1.20	43.80		
2.60	60.56			2.40	45.50		
3.70	60.64			3.00	47.10		
4.80	60.72			3.70	48.50		
5.20	60.80			4.10	50.00		
5.70	60.92			4.50	50.90		
6.30	61.04			5.00	51.80		
6.90	61.16			5.50	52.60		
7.30	61.28			5.90	53.60		
7.70	61.40			6.10	54.90		
8.50	61.52			6.40	56.20		
8.90	61.64			6.70	57.20		
9.50	61.76			7.30	58.60		
10.10	61.88			7.80	60.00		
10.70	62.00			8.10	61.00		
11.20	62.16			8.60	62.40		
11.70	62.32			9.00	63.60		
12.10	62.48			9.20	64.80		
12.60	62.64			9.60	66.40		
13.30	62.80			10.00	67.40		
13.70	62.96			10.40	69.10		
14.40	63.12			10.70	70.40		
14.70	63.28			11.00	71.10		
15.30	63.44			11.30	72.20		
15.80	63.60			11.60	72.50		
16.20	63.71			12.00	72.70		
16.90	63.82			12.40	74.40		
17.50	63.93			12.90	75.20		
18.10	64.04			13.40	75.90		
18.70	64.15			13.60	76.80		
19.30	64.26			14.30	77.60		
20.10	64.37			14.58	78.40		
20.90	64.48			14.86	79.20		
21.60	64.59			15.14	80.00		
22.50	64.70			15.42	80.40		
23.10	64.77			15.70	81.40		
23.60	64.84			16.20	82.20		
24.60	64.91			16.60	82.80		
26.50	64.98			17.10	83.60		
28.40	65.05			17.50	84.30		
31.20	65.12			17.70	85.34		
34.20	65.19			18.20	86.38		
38.70	65.26			18.80	87.42		
41.40	65.33			19.20	88.46		
42.70	65.40			19.50	89.50		
44.40	DCP REF			20.20	89.80		
46.20	60/2.2*			20.40	90.50		
46.80				21.00	91.50		
48.90				21.50	92.60		
51.40				22.20	93.50		
53.70				22.80	94.60		
55.80				23.50	95.30		
56.50				23.90	96.10		
57.20				24.50	97.00		
57.80				25.40	98.30		
58.20				26.10	99.00		
58.60				27.10	99.90		
58.90				28.00	100.70		
59.20				28.60	101.40		
59.40				29.80	103.50		
60.00				31.40	105.10		
60.08				33.20	106.10		
60.16				35.70			
60.24				38.20			
60.32				40.10			
60.40				41.30			



ABC	
ABC Thickness (in)	9.00
Average CBR	62
Weighted CBR Average	55
Maximum CBR Value	100
Minimum CBR Value	20

Soil Subgrade	
Average CBR	81
Weighted Average	32
Max CBR	100
Min CBR	7



ABC	
ABC Thickness (in)	10.50
Average CBR	78
Weighted CBR Average	69
Maximum CBR Value	100
Minimum CBR Value	28

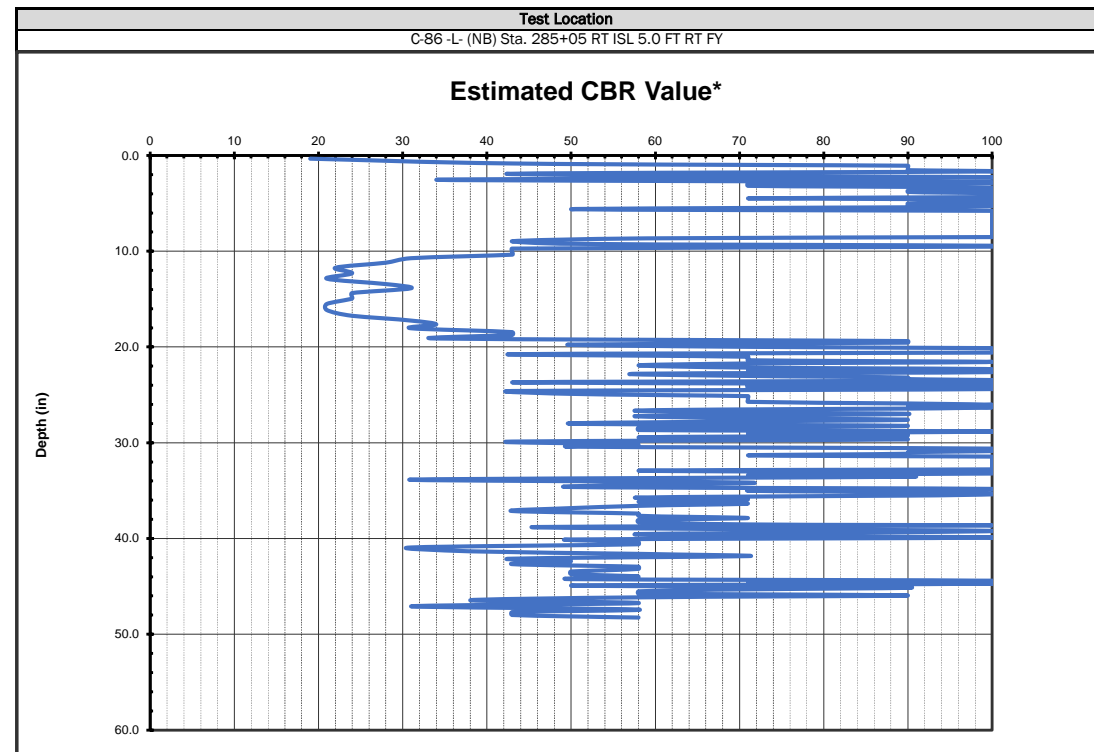
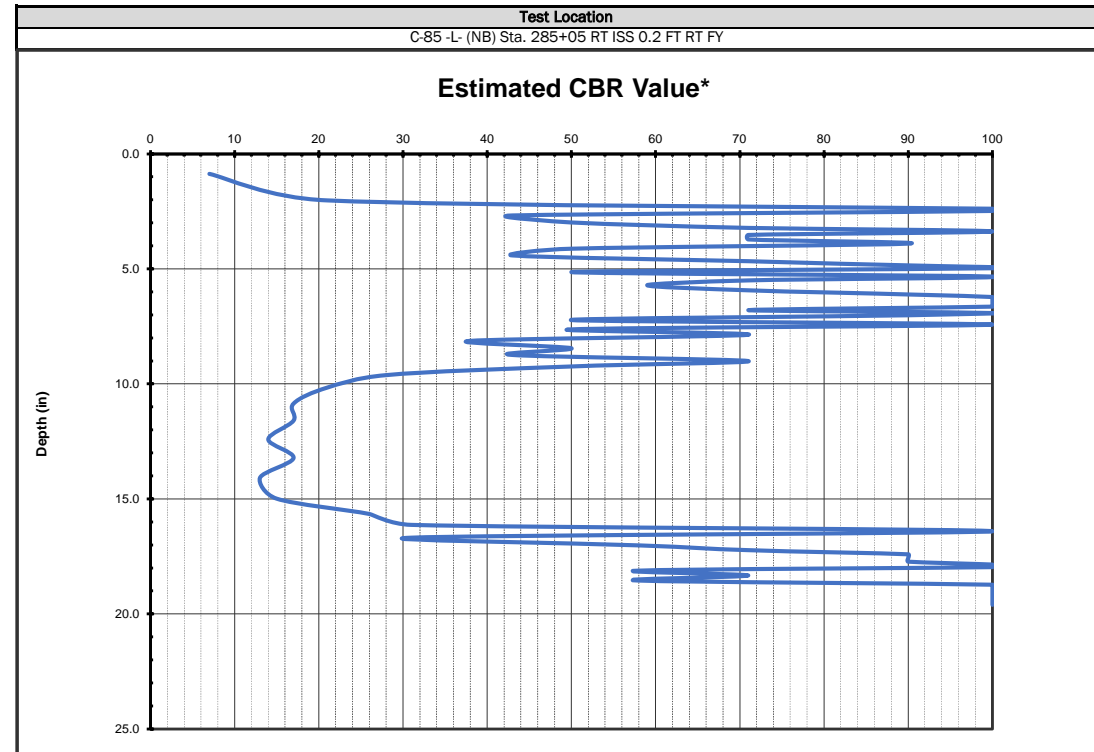
Soil Subgrade	
Average CBR	37
Weighted Average	30
Max CBR	100
Min CBR	13

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)





DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
C-85 -L- (NB) Sta. 285+05 RT ISS 0.2 FT RT FY				11/16 to 11/22/22	C-86 -L- (NB) Sta. 285+05 RT ISL 5.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	8.0 ft Fill	DCP	Cumulative cm per blow	ABC	8.0 ft Fill
4.36	48.06			1.70	19.50	59.80	84.50
5.90	48.10			2.50	19.72	60.60	85.00
6.20	48.14			2.90	19.94	60.80	85.40
6.40	48.18			3.30	20.16	61.30	86.50
7.20	48.22			3.70	20.38	61.80	87.00
7.90	48.26			4.10	20.60	62.10	87.60
8.40	48.30			4.40	20.82	62.90	88.30
8.70	48.34			5.20	21.04	63.60	88.60
9.20	48.38			5.70	21.26	64.10	89.10
9.70	48.42			5.90	21.48	64.60	89.50
10.10	48.46			6.90	21.70	65.10	89.70
10.80	48.50			7.20	22.30	65.60	90.00
11.60	48.54			7.30	23.10	66.00	90.40
12.10	48.58			7.80	23.80	66.30	91.00
12.50	48.62			8.30	24.00	66.70	91.50
12.70	48.66			8.60	24.30	66.90	92.10
13.40	48.70			8.90	25.10	67.30	92.60
13.70	48.74			9.10	25.90	67.90	93.20
14.20	48.77			9.50	26.70	68.40	93.90
14.80	48.81			9.90	27.80	68.80	94.70
15.30	48.85			10.10	29.00	69.40	95.30
15.70	48.88			10.40	30.50	69.90	95.90
15.90	48.92			10.70	31.90	70.30	96.40
16.20	48.96			10.90	33.50	70.80	97.00
16.40	48.99			11.10	34.70	71.50	97.60
16.70	49.03			11.60	35.80	71.90	98.10
17.00	49.07			11.70	37.20	72.50	98.15
17.50	49.10			12.00	38.60	73.10	98.90
17.60	49.14			12.20	40.20	73.20	99.40
18.00	49.18			12.50	41.80	73.60	99.70
18.70	49.21			12.90	43.20	74.10	100.10
19.00	49.25			13.30	44.30	74.50	100.70
19.70	49.29			13.50	45.30	75.10	101.20
20.20	49.32			13.90	46.40	75.50	101.50
21.10	49.36			14.60	47.20	76.30	102.20
21.80	49.40			14.80	48.00	76.90	102.80
22.60	49.43			15.00	49.00	77.60	103.40
23.10	49.47			15.12	49.40	77.80	104.50
23.80	49.51			15.24	49.80	78.10	105.40
25.00	49.54			15.36	50.50	78.30	106.00
26.60	49.58			15.48	51.00	78.50	106.50
28.50	49.62			15.60	51.13	78.90	107.30
30.40	49.65			15.72	51.26	79.30	108.00
32.64	49.69			15.84	51.39	79.80	108.80
34.50	49.73			15.96	51.52	79.98	109.40
37.00	49.76			16.08	51.65	80.16	110.00
39.10	49.80			16.20	51.78	80.34	110.70
40.40	DCP REF			16.32	51.91	80.52	111.40
41.50	90/1*			16.44	52.04	80.70	112.00
41.80				16.56	52.17	80.88	112.70
42.90				16.68	52.30	81.06	112.90
43.50				16.80	53.10	81.24	113.40
44.00				16.92	53.60	81.42	113.70
44.40				17.04	54.10	81.60	114.40
44.80				17.16	54.60	81.77	114.80
45.20				17.28	54.90	81.94	115.30
45.50				17.40	55.40	82.11	115.90
45.70				17.61	56.00	82.28	116.50
46.30				17.82	56.50	82.45	116.90
46.80				18.03	56.80	82.62	117.50
47.40				18.24	57.30	82.79	118.40
47.70				18.45	57.60	82.96	119.00
47.90				18.66	58.20	83.13	120.10
47.94				18.87	58.70	83.30	120.70
47.98				19.08	59.10	83.90	121.50
48.02				19.29	59.50	84.20	122.30

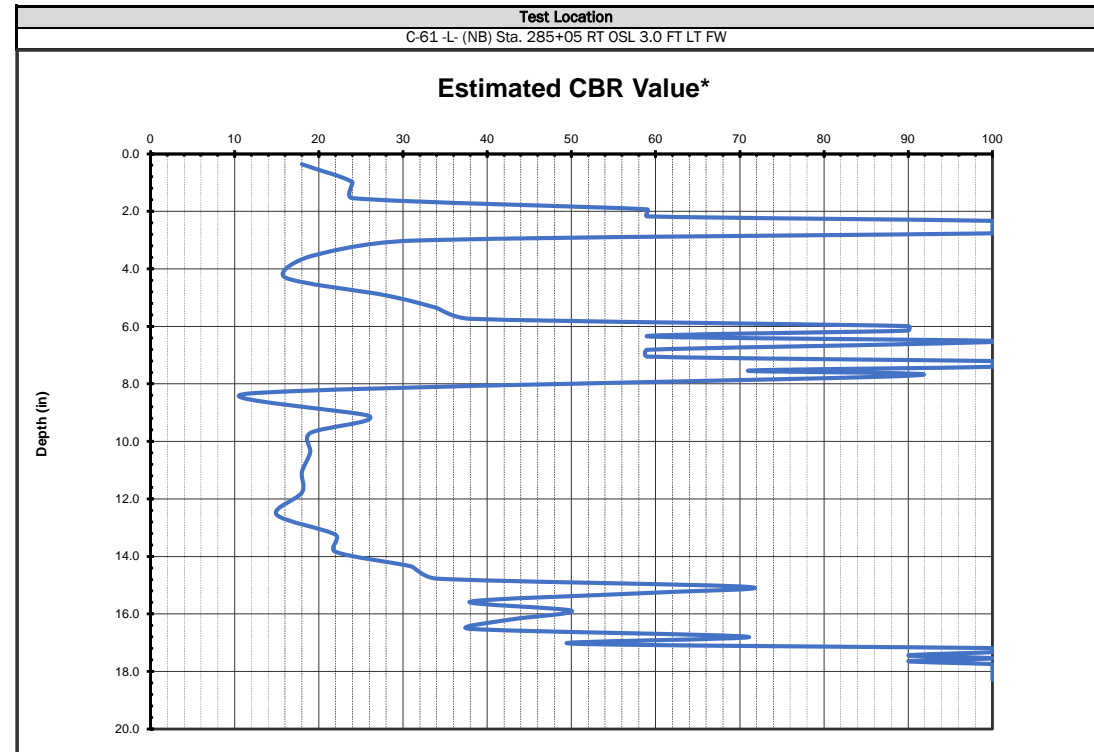


\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



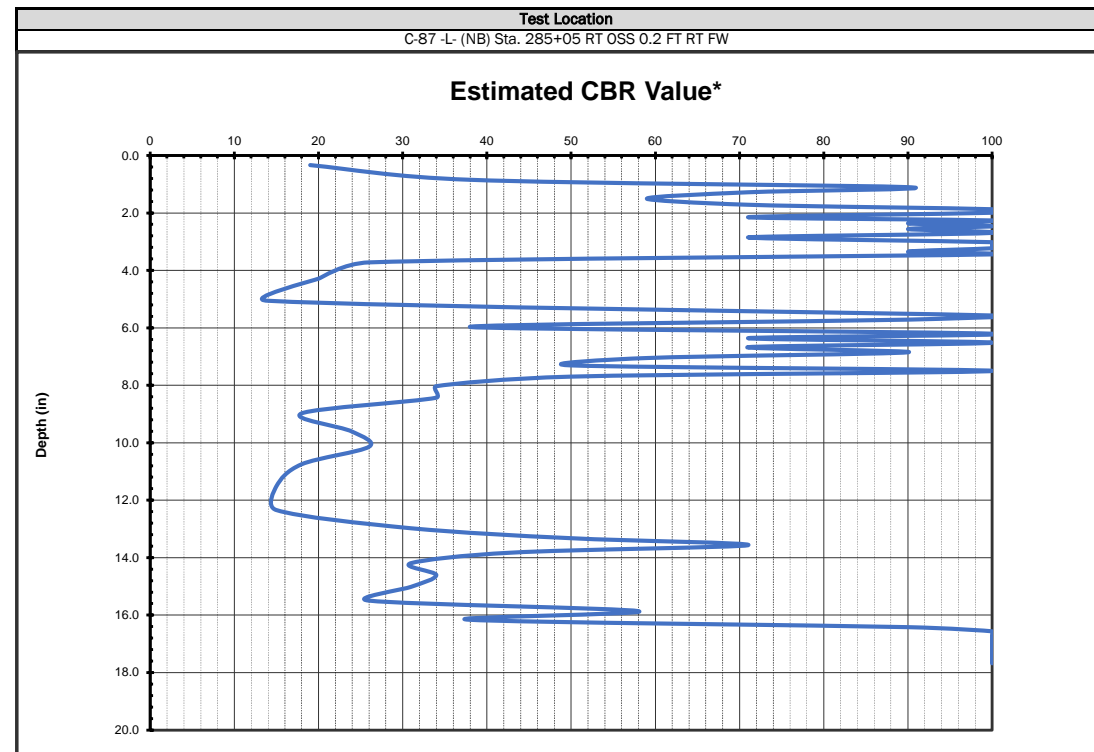


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
C-61 -L- (NB) Sta. 285+05 RT OSL 3.0 FT LT FW				11/16 to 11/22/22	C-87 -L- (NB) Sta. 285+05 RT OSS 0.2 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	8.0 ft Fill	DCP	Cumulative cm per blow	ABC	8.0 ft Fill
1.80	45.52			1.70	44.09		
3.20	45.56			2.60	44.16		
4.60	45.59			3.00	44.23		
5.20	45.63			3.50	44.30		
5.80	45.66			4.10	44.32		
6.00	45.70			4.60	44.33		
6.30	45.73			4.90	44.35		
6.50	45.77			5.20	44.37		
6.70	45.80			5.70	44.39		
6.90	45.84			5.80	44.40		
7.10	45.87			6.20	44.42		
8.20	45.91			6.30	44.44		
9.90	45.94			6.70	44.45		
11.90	45.98			7.00	44.47		
13.10	46.01			7.50	44.49		
14.10	46.05			7.80	44.51		
15.00	46.08			8.00	44.52		
15.40	46.12			8.10	44.54		
15.80	46.15			8.30	44.56		
16.40	46.19			8.70	44.57		
16.60	46.22			8.80	44.59		
17.00	46.26			10.10	44.61		
17.60	46.29			11.70	44.63		
18.20	46.33			14.00	44.64		
18.40	46.36			14.30	44.66		
18.70	46.40			14.70	44.68		
18.90	46.43			15.60	44.69		
19.40	46.47			15.90	44.71		
19.80	46.50			16.40	44.73		
22.50	DCP REF			16.70	44.75		
23.80	60/LP*			17.20	44.76		
25.50				17.60	44.78		
27.20				18.20	44.80		
29.00				18.90	44.81		
30.80				19.20	44.83		
32.90				19.90	44.85		
34.40				20.90	44.87		
35.90				21.90	44.88		
37.00				23.70	44.90		
38.00				25.10	DCP REF		
38.50				26.40	60/LP*		
39.10				28.20			
40.00				30.30			
40.70				32.40			
41.50				33.50			
42.40				34.20			
42.90				34.70			
43.60				35.50			
43.70				36.60			
43.90				37.60			
44.10				38.70			
44.50				40.00			
44.60				40.60			
45.00				41.50			
45.10				41.90			
45.14				42.24			
45.17				42.58			
45.21				42.92			
45.24				43.26			
45.28				43.60			
45.31				43.67			
45.35				43.74			
45.38				43.81			
45.42				43.88			
45.45				43.95			
45.49				44.02			



ABC	
ABC Thickness (in)	8.25
Average CBR	68
Weighted CBR Average	44
Maximum CBR Value	100
Minimum CBR Value	16

Soil Subgrade	
Average CBR	81
Weighted Average	35
Max CBR	100
Min CBR	12



ABC	
ABC Thickness (in)	8.00
Average CBR	76
Weighted CBR Average	55
Maximum CBR Value	100
Minimum CBR Value	14

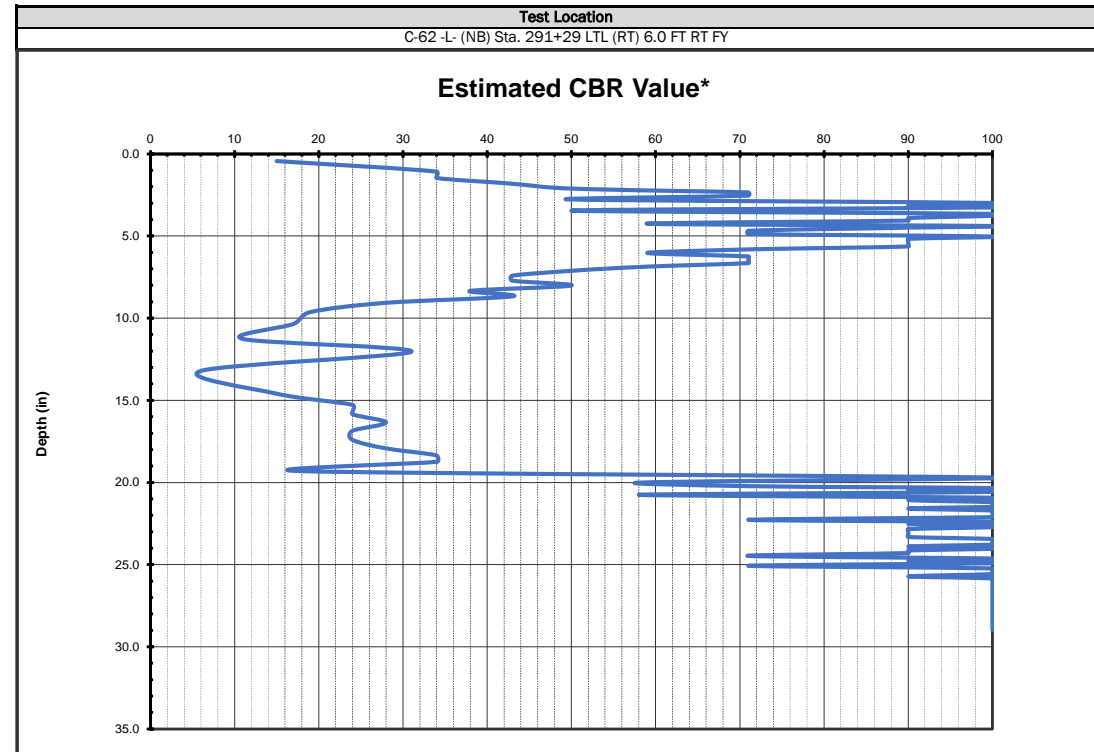
Soil Subgrade	
Average CBR	82
Weighted Average	38
Max CBR	100
Min CBR	15

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



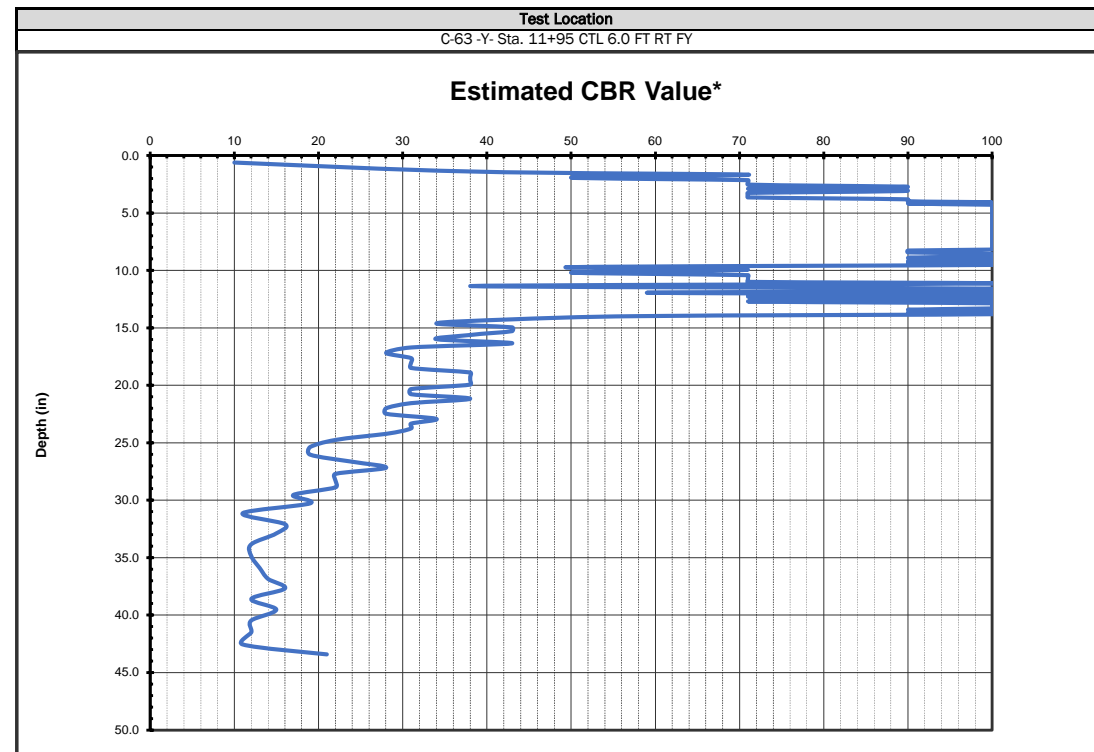


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
				11/16 to 11/22/22	C-63 -Y- Sta. 11+95 CTL 6.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	3.0 ft Fill
2.20	54.30	70.44		3.10	21.60	65.30	
3.20	54.50	70.65		4.00	21.90	67.00	
4.20	54.60	70.86		4.50	22.10	68.40	
5.00	55.00	71.07		5.20	22.40	69.60	
5.70	55.20	71.28		5.70	22.80	71.10	
6.20	55.40	71.49		6.20	23.00	72.60	
6.70	55.60	71.70		6.70	23.10	74.10	
7.40	55.90	71.78		7.10	23.50	76.00	
7.70	56.00	71.86		7.60	23.60	77.70	
8.10	56.30	71.94		8.00	24.00	80.50	
8.40	56.80	72.02		8.50	24.30	82.50	
9.10	56.90	72.10		9.00	25.00	84.60	
9.40	57.00	72.18		9.50	25.50	87.20	
9.70	57.40	72.26		9.90	26.20	89.90	
10.10	57.60	72.34		10.30	26.70	92.40	
10.50	57.80	72.42		10.40	27.20	94.70	
11.10	58.20	72.50		10.80	27.70	96.70	
11.20	58.60	72.61		11.00	28.20	99.30	
11.60	59.00	72.72		11.20	28.40	101.50	
12.10	59.40	72.83		11.40	29.30	104.10	
12.60	59.60	72.94		11.60	29.50	106.70	
12.90	59.90	73.05		11.80	29.90	109.50	
13.30	60.20	73.16		12.00	30.00	111.10	
13.70	60.30	73.27		12.28	30.60		
14.10	60.50	73.38		12.56	30.90		
14.50	60.90	73.49		12.84	31.40		
15.00	61.10	73.60		13.12	31.70		
15.60	61.50	DCP REF		13.40	32.00		
16.10	61.90	50/3.0*		13.52	32.50		
16.60	62.40			13.64	32.80		
17.10	62.70			13.76	33.10		
17.70	63.10			13.88	33.40		
18.40	63.40			14.00	33.70		
19.20	63.90			14.16	33.90		
20.00	64.20			14.32	34.30		
20.70	64.50			14.48	34.50		
21.60	64.80			14.64	34.90		
22.40	65.10			14.80	35.20		
23.60	65.50			15.00	35.80		
25.30	65.70			15.20	36.60		
27.20	66.00			15.40	37.60		
30.00	66.30			15.60	38.40		
31.10	66.40			15.80	39.20		
36.00	66.58			16.00	40.10		
38.10	66.76			16.20	41.10		
39.50	66.94			16.40	41.90		
40.90	67.12			16.60	43.00		
42.10	67.30			16.80	44.20		
43.50	67.48			17.06	45.30		
44.90	67.66			17.32	46.40		
46.10	67.84			17.58	47.50		
47.10	68.02			17.84	48.40		
48.10	68.20			18.10	49.30		
49.90	68.34			18.30	50.20		
50.10	68.48			18.50	51.10		
50.50	68.62			18.70	52.20		
51.10	68.76			18.90	53.30		
51.60	68.90			19.10	54.20		
51.70	69.04			19.36	55.30		
52.10	69.18			19.62	56.50		
52.40	69.32			19.88	57.70		
53.00	69.46			20.14	58.70		
53.30	69.60			20.40	59.80		
53.70	69.81			20.70	60.90		
53.90	70.02			20.80	62.10		
54.10	70.23			21.20	63.60		



ABC	
ABC Thickness (in)	8.25
Average CBR	70
Weighted CBR Average	59
Maximum CBR Value	100
Minimum CBR Value	15

Soil Subgrade	
Average CBR	86
Weighted Average	53
Max CBR	100
Min CBR	6



ABC	
ABC Thickness (in)	12.50
Average CBR	90
Weighted CBR Average	76
Maximum CBR Value	100
Minimum CBR Value	10

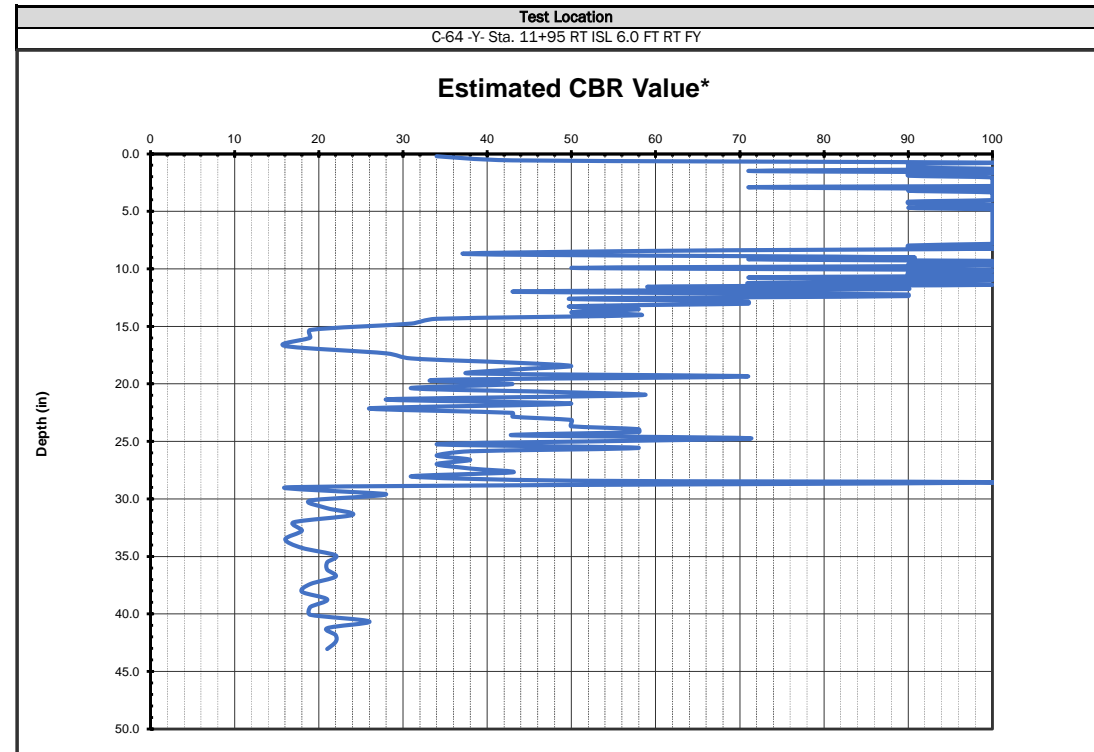
Soil Subgrade	
Average CBR	39
Weighted Average	25
Max CBR	100
Min CBR	11

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



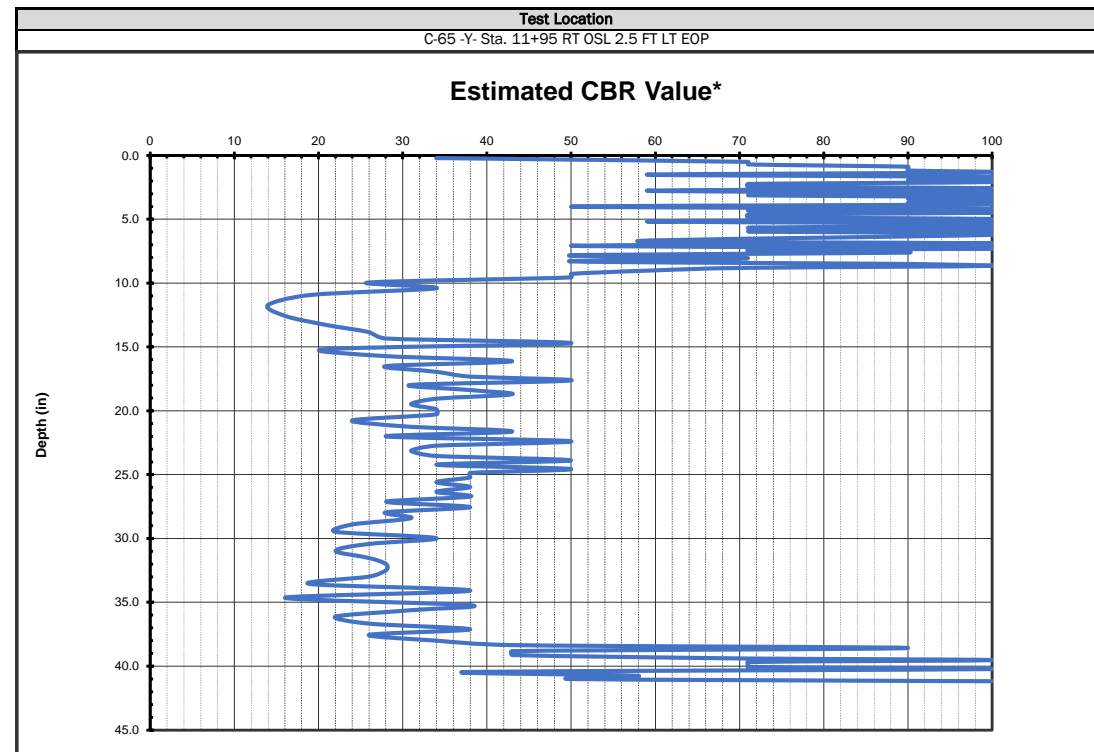


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
				11/16 to 11/22/22	C-65 -Y- Sta. 11+95 RT OSL 2.5 FT LT EOP	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
1.00	20.00	63.60		1.00	39.30	104.50	
1.80	20.40	64.60		1.50	40.50	104.70	
2.00	20.80	65.20		2.00	41.30		
2.40	21.10	66.10		2.40	42.50		
2.80	21.70	67.10		2.80	43.50		
3.20	22.60	68.00		3.20	44.40		
3.50	23.00	69.00		3.50	45.10		
4.00	23.50	69.90		4.10	46.20		
4.20	23.70	70.70		4.40	47.10		
4.60	24.00	71.80		4.70	47.90		
5.00	24.10	72.50		5.10	48.90		
5.30	24.50	72.60		5.40	50.00		
5.50	24.80	74.50		5.90	51.00		
5.70	25.50	75.70		6.40	52.00		
6.00	25.80	77.40		6.70	53.40		
6.30	26.00	79.00		7.30	54.50		
6.60	26.40	80.40		7.60	55.30		
6.80	26.80	82.30		8.10	56.50		
7.00	27.00	84.10		8.40	57.20		
7.10	27.50	86.10		8.80	58.20		
7.60	27.80	87.90		8.90	59.30		
7.90	27.90	89.40		9.20	60.30		
8.30	28.30	91.00		9.60	61.00		
8.60	28.80	92.60		9.80	62.00		
8.90	29.00	94.10		10.50	62.70		
9.20	29.60	95.80		10.70	63.60		
9.40	30.00	97.60		11.20	64.50		
9.60	30.80	99.20		11.50	65.50		
9.80	31.20	100.90		12.00	66.40		
10.10	31.60	102.60		12.50	67.40		
10.30	32.30	103.90		12.80	68.30		
10.70	32.80	105.50		13.40	69.50		
11.10	33.30	107.00		13.60	70.40		
11.30	34.00	108.50		13.90	71.60		
11.50	34.60	110.10		14.10	72.70		
11.70	35.30			14.60	74.10		
12.10	35.90			14.80	75.60		
12.38	36.90			15.30	76.60		
12.66	38.00			15.60	77.90		
12.94	39.70			15.90	79.40		
13.22	41.40			16.30	80.70		
13.50	43.40			16.80	81.90		
13.72	44.60			17.40	83.10		
13.94	45.70			17.60	84.40		
14.16	46.50			18.30	86.10		
14.38	47.20			18.60	87.00		
14.60	48.00			19.10	89.00		
14.86	48.90			19.50	89.90		
15.12	49.40			20.20	91.00		
15.38	50.40			20.70	92.50		
15.64	51.20			21.40	93.80		
15.90	52.30			21.80	94.70		
16.22	53.00			22.10	96.00		
16.54	53.60			22.60	97.00		
16.86	54.80			23.20	97.80		
17.18	55.50			23.90	98.20		
17.50	56.80			24.60	99.00		
17.70	57.60			25.90	99.80		
17.90	58.40			26.90	100.30		
18.10	59.10			28.60	100.50		
18.30	59.80			30.90	101.00		
18.50	60.50			32.90	101.50		
18.80	61.10			34.50	102.00		
19.10	61.70			35.80	102.30		
19.40	62.50			37.00	103.20		
19.70	63.00			37.70	103.80		



ABC	
ABC Thickness (in)	12.25
Average CBR	93
Weighted CBR Average	86
Maximum CBR Value	100
Minimum CBR Value	34

Soil Subgrade	
Average CBR	38
Weighted Average	31
Max CBR	100
Min CBR	16



ABC	
ABC Thickness (in)	11.00
Average CBR	79
Weighted CBR Average	67
Maximum CBR Value	100
Minimum CBR Value	19

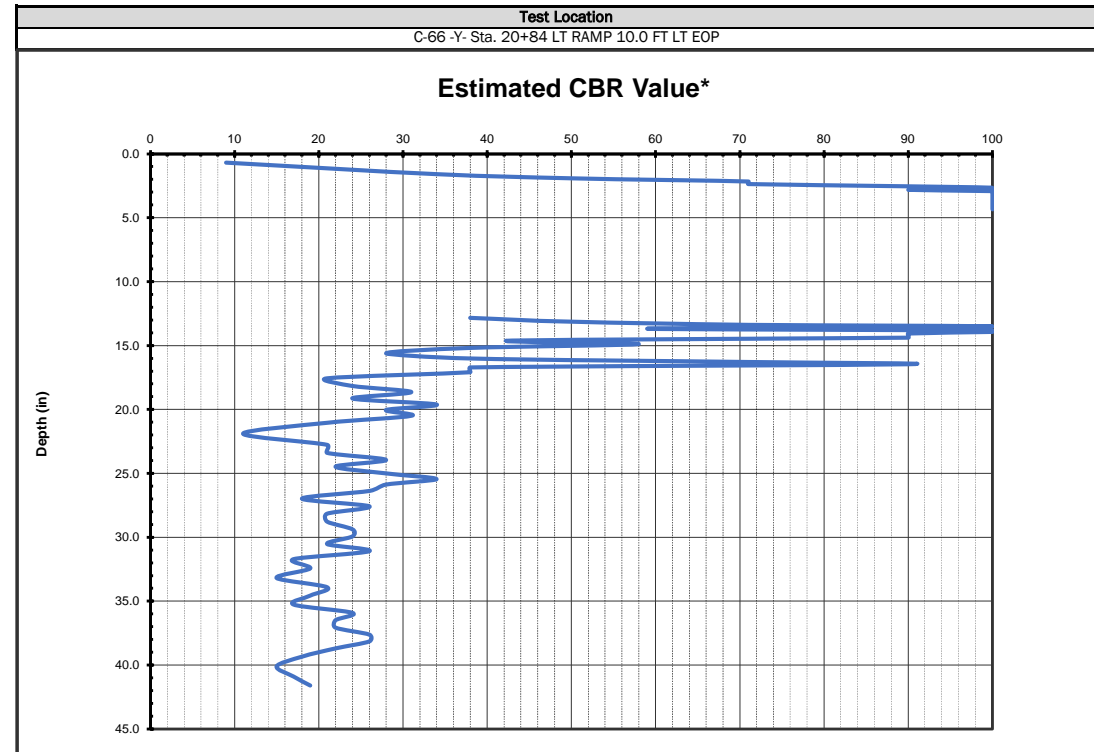
Soil Subgrade	
Average CBR	39
Weighted Average	33
Max CBR	100
Min CBR	14

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



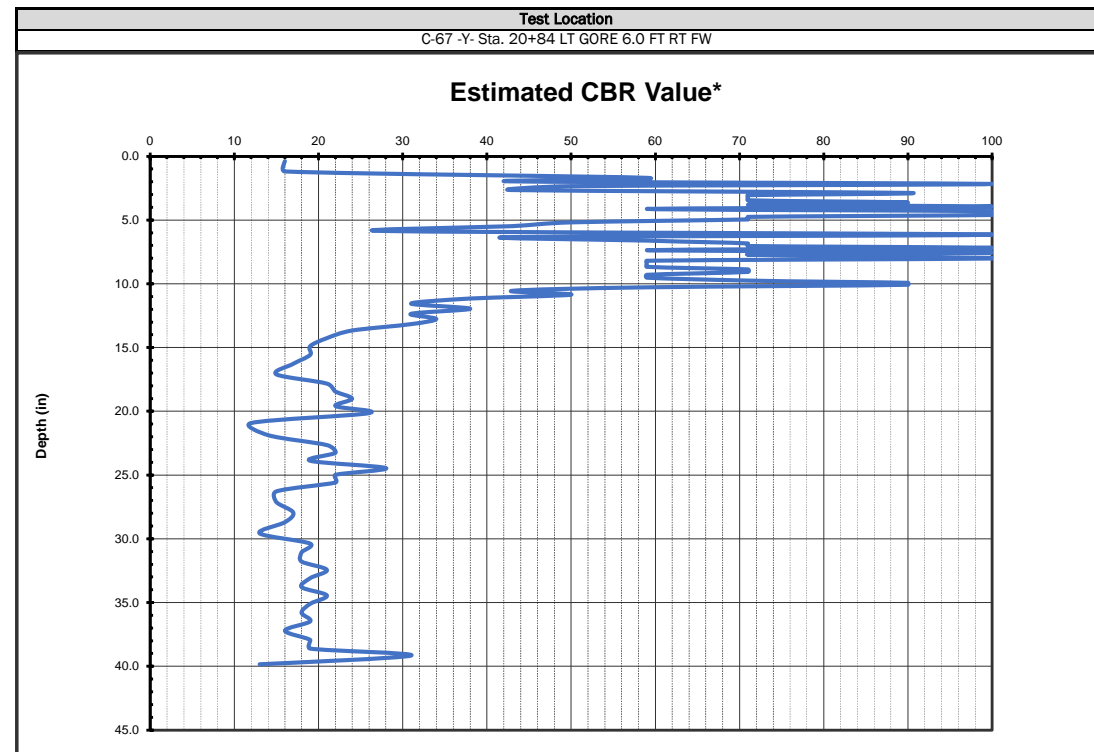


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
C-66 -Y- Sta. 20+84 LT RAMP 10.0 FT LT EOP				11/16 to 11/22/22	C-67 -Y- Sta. 20+84 LT GORE 6.0 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	3.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
3.50	4.00			2.00	54.40		
4.50	4.20			4.00	56.70		
5.20	4.50			4.60	58.30		
5.70	4.90			5.40	59.80		
6.20	5.30			5.60	61.50		
6.60	5.70			6.30	62.70		
6.90	6.50			7.10	64.20		
7.30	7.10			7.50	65.70		
7.42	8.00			8.00	67.80		
7.54	9.20			8.50	70.00		
7.66	10.10			9.00	71.90		
7.78	10.60			9.40	73.90		
7.90	11.00			9.90	76.30		
8.02	11.90			10.20	78.00		
8.14	12.80			10.80	79.80		
8.26	14.40			11.00	81.60		
8.38	15.80			11.20	83.20		
8.50	16.90			11.40	84.90		
8.66	18.30			11.60	86.70		
8.82	19.30			11.80	88.30		
8.98	20.50			12.30	90.00		
9.14	21.60			12.80	91.80		
9.30	23.20			13.50	93.50		
9.46	26.00			14.30	95.50		
9.62	27.60			15.50	97.20		
9.78	29.20			15.70	98.90		
9.94	30.40			16.50	100.00		
10.10	31.90			17.10	102.40		
10.13	33.10			17.60			
10.16	34.10			18.10			
10.19	35.30			18.40			
10.22	36.60			19.00			
10.25	38.40			19.30			
10.28	39.70			19.80			
10.31	41.30			20.20			
10.34	42.90			20.50			
10.37	44.30			21.10			
10.40	45.70			21.70			
10.43	47.30			22.30			
10.46	48.60			22.80			
10.49	50.50			23.30			
10.52	52.20			23.90			
10.55	54.30			24.50			
10.58	55.90			25.00			
10.61	57.60			25.40			
10.64	59.50			25.80			
10.67	60.90			26.40			
10.70	62.40			27.20			
10.73	63.90			27.90			
10.76	65.20			28.80			
10.79	66.50			29.90			
10.82	68.00			30.80			
10.85	69.80			31.90			
10.88	71.90			32.90			
10.91	73.80			34.00			
10.94	75.50			35.40			
10.97				37.00			
11.00				38.70			
DCP REF.				40.40			
AUGER 20.0				42.30			
TO SLO CM				44.50			
1.10				46.10			
2.00				47.60			
2.70				49.00			
3.20				50.50			
3.40				51.80			



ABC	
ABC Thickness (in)	14.00
Average CBR	92
Weighted CBR Average	57
Maximum CBR Value	100
Minimum CBR Value	9

Soil Subgrade	
Average CBR	31
Weighted Average	25
Max CBR	90
Min CBR	11



ABC	
ABC Thickness (in)	11.00
Average CBR	70
Weighted CBR Average	57
Maximum CBR Value	100
Minimum CBR Value	16

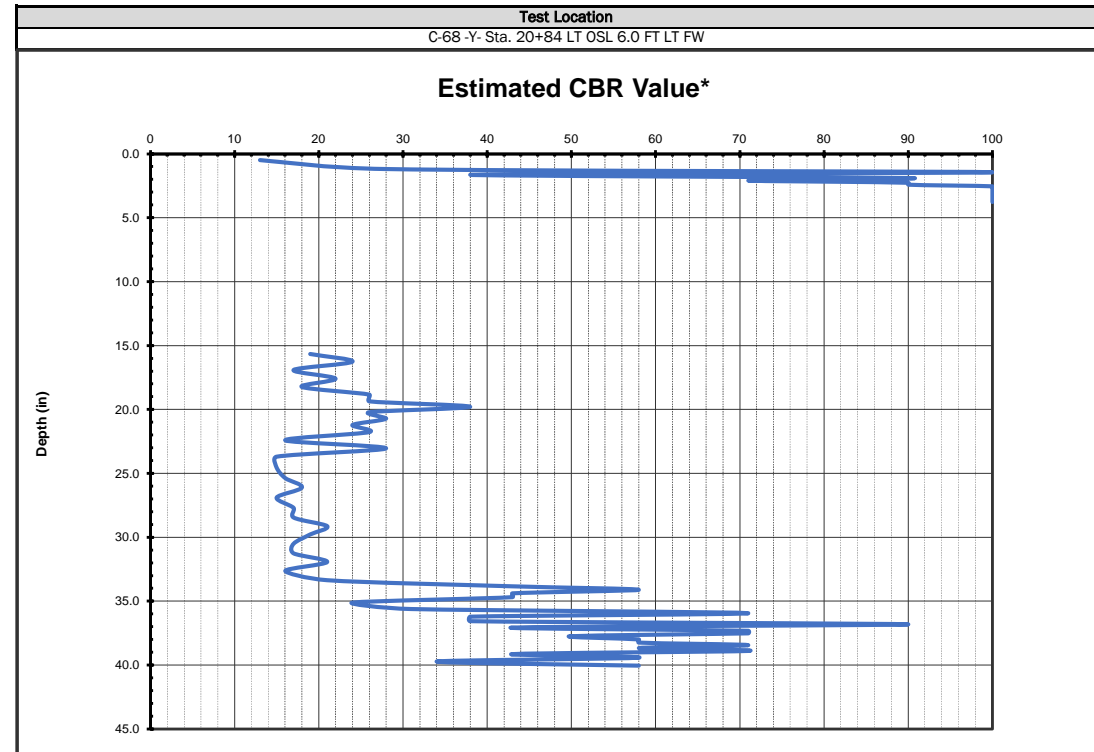
Soil Subgrade	
Average CBR	21
Weighted Average	20
Max CBR	38
Min CBR	12

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



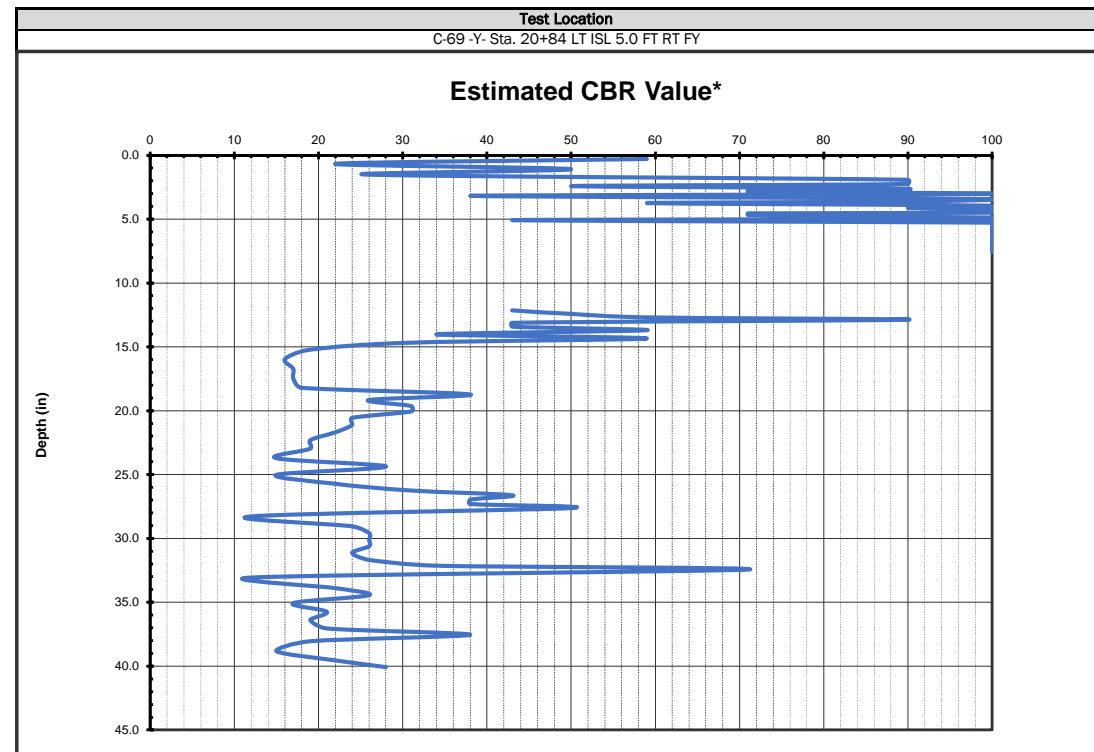


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
				11/16 to 11/22/22	C-69 -Y- Sta. 20+84 LT ISL 5.0 FT RT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	ABC	5.0 ft Fill	DCP	Cumulative cm per blow	ABC	5.0 ft Fill
2.40	4.90			1.40	18.52	74.00	
3.60	6.80			2.00	18.63		
3.70	8.30			3.50	18.74		
4.60	10.10			4.20	18.85		
5.00	11.40			5.50	18.96		
5.50	12.70			5.90	19.07		
5.90	13.60			6.30	19.18		
6.30	14.90			7.00	19.29		
6.50	16.10			7.40	19.40		
6.70	17.50			7.90	19.40		
6.80	18.80			8.20	19.40		
7.00	20.80			9.10	19.40		
7.03	22.00			9.30	2.00		
7.07	24.10			9.70	2.80		
7.10	26.30			10.30	3.50		
7.13	28.30			10.60	4.10		
7.17	30.10			11.00	4.50		
7.20	32.30			11.30	5.30		
7.23	34.20			11.50	6.10		
7.27	36.10			11.60	6.70		
7.30	37.70			12.10	7.70		
7.33	39.40			12.60	8.30		
7.37	41.30			12.70	9.40		
7.40	43.20			13.00	11.10		
7.43	44.80			13.80	13.10		
7.47	46.80			13.88	15.00		
7.50	48.40			13.96	16.90		
7.53	49.20			14.04	18.70		
7.57	49.80			14.12	19.60		
7.60	50.60			14.20	20.90		
7.63	51.40			14.28	22.00		
7.67	52.80			14.36	23.10		
7.70	53.90			14.44	24.50		
7.73	54.40			14.52	25.90		
7.77	55.30			14.60	27.40		
7.80	56.20			14.78	29.10		
7.83	56.60			14.96	30.80		
7.87	57.40			15.14	32.90		
7.90	57.90			15.32	34.10		
7.93	58.40			15.50	36.20		
7.97	59.10			15.59	37.70		
8.00	59.70			15.67	38.80		
8.08	60.30			15.76	39.60		
8.16	60.80			15.85	40.50		
8.24	61.40			15.93	41.40		
8.32	61.90			16.02	42.10		
8.40	62.70			16.11	44.70		
8.48	63.30			16.19	46.10		
8.56	64.30			16.28	47.40		
8.64	64.90			16.37	48.70		
8.72				16.45	50.00		
8.80				16.54	51.40		
8.89				16.63	52.70		
8.98				16.71	53.70		
9.07				16.80	54.20		
9.16				16.95	56.90		
9.24				17.10	58.40		
9.33				17.25	59.70		
9.42				17.40	61.60		
9.51				17.55	63.20		
9.60				17.70	64.90		
DCP REF				17.85	66.50		
Auger 27.5				18.00	67.40		
TO 37.1 CM				18.15	69.10		
1.80				18.30	71.30		
3.50				18.41	72.80		



ABC	
ABC Thickness (in)	14.5
Average CBR	94
Weighted CBR Average	13
Maximum CBR Value	100
Minimum CBR Value	1

Soil Subgrade	
Average CBR	35
Weighted Average	27
Max CBR	90
Min CBR	15



ABC	
ABC Thickness (in)	15.0
Average CBR	85
Weighted CBR Average	30
Maximum CBR Value	100
Minimum CBR Value	1

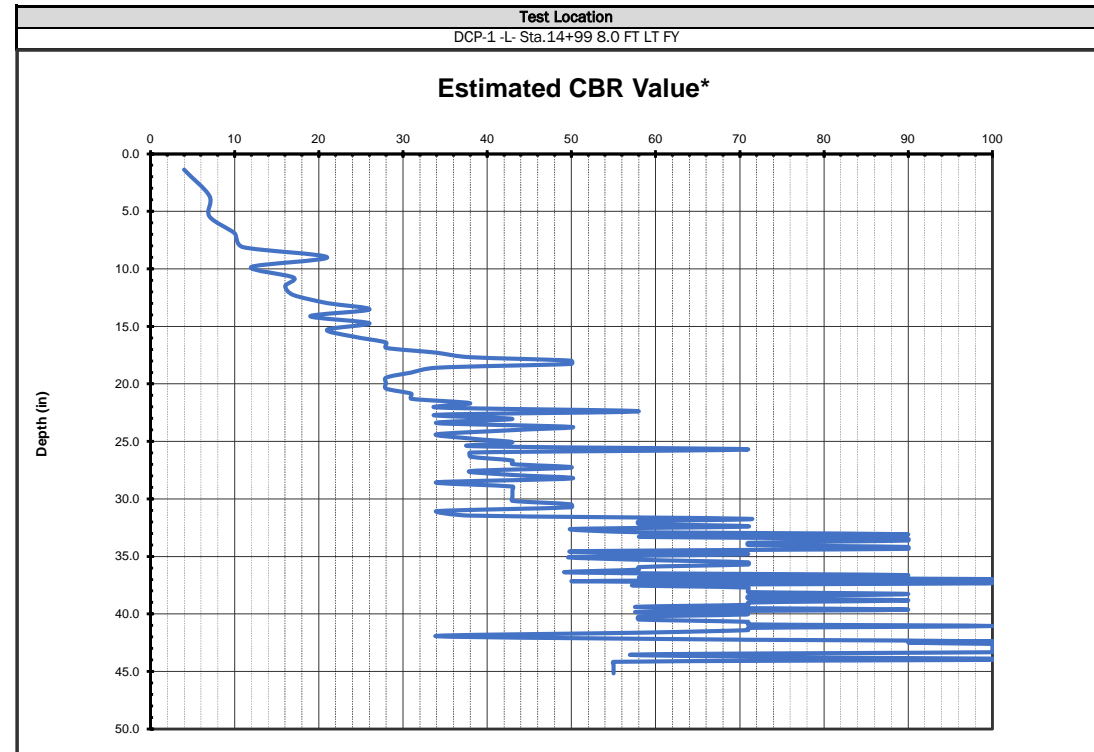
Soil Subgrade	
Average CBR	26
Weighted Average	23
Max CBR	71
Min CBR	12

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



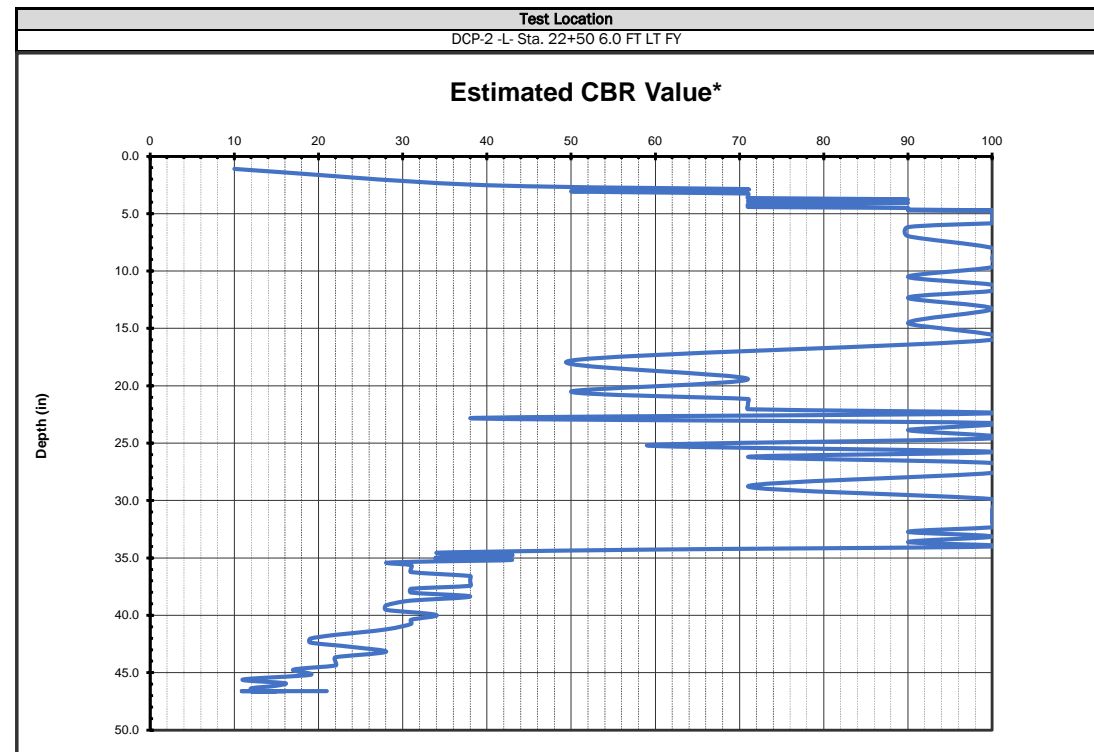


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
DCP-1 -L- Sta.14+99 8.0 FT LT FY				11/16 to 11/22/22	DCP-2 -L- Sta. 22+50 6.0 FT LT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	7.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill
7.00	84.20			5.50	18.90	107.20	
11.50	84.80			7.00	21.60	108.10	
16.00	85.20			7.60	23.50	109.10	
19.10	85.60			7.90	25.60	110.30	
22.00	86.10			8.60	27.70	111.50	
23.60	86.60			9.00	29.10	112.20	
26.30	87.00			9.40	30.50	113.20	
28.20	87.40			9.70	32.10	114.10	
30.20	88.10			10.10	35.40	115.40	
32.10	88.60			10.50	38.40	116.20	
33.70	89.30			10.80	42.80	117.00	
35.00	89.90			11.10	47.60	117.40	
36.70	90.40			11.30	51.00	118.10	
38.00	90.90			11.60	53.20	118.60	
39.60	91.50			11.90	54.20		
41.00	92.10			11.93	54.80		
42.20	92.80			11.96	55.50		
43.40	93.20			12.00	56.40		
44.40	93.80			12.03	57.40		
45.30	94.00			12.06	58.50		
46.00	94.70			12.09	59.50		
46.70	94.90			12.12	61.60		
47.70	95.50			12.16	63.20		
48.80	96.00			12.19	64.80		
50.00	96.50			12.22	66.00		
51.20	97.00			12.25	67.10		
52.40	97.40			12.28	68.70		
53.50	97.90			12.32	71.50		
54.60	98.40			12.35	74.60		
55.50	98.80			12.38	77.10		
56.50	99.30			12.41	79.20		
57.10	99.80			12.44	80.60		
58.10	100.40			12.48	81.60		
58.90	100.80			12.51	82.60		
59.90	101.40			12.54	83.60		
60.60	101.90			12.57	84.70		
61.40	102.50			12.60	86.00		
62.40	103.10			12.64	86.70		
63.30	103.60			12.67	87.40		
64.10	104.10			12.70	87.50		
65.00	104.40			12.76	88.10		
65.50	104.90			12.82	88.30		
66.40	105.40			12.88	88.50		
67.30	106.00			12.94	88.70		
68.10	107.00			13.00	89.10		
68.90	107.50			13.06	89.60		
69.60	107.70			13.12	89.90		
70.50	108.10			13.18	90.10		
71.30	108.30			13.24	90.90		
72.00	108.50			13.30	91.60		
73.00	108.84			13.36	92.50		
73.80	109.18			13.42	93.30		
74.60	109.52			13.48	93.80		
75.40	109.86			13.54	94.70		
76.20	110.20			13.60	95.40		
77.00	110.80			13.66	96.10		
77.70	111.30			13.72	97.10		
78.40	111.60			13.78	97.80		
79.40	111.80			13.84	98.90		
80.30	112.44			13.90	99.90		
80.80	113.08			14.10	100.90		
81.40	113.72			14.30	102.10		
82.00	114.36			14.50	103.10		
82.50	115.00			14.70	103.90		
83.20				14.90	105.50		
83.80				16.40	106.40		



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	55
Weighted Average	38
Max CBR	100
Min CBR	4



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

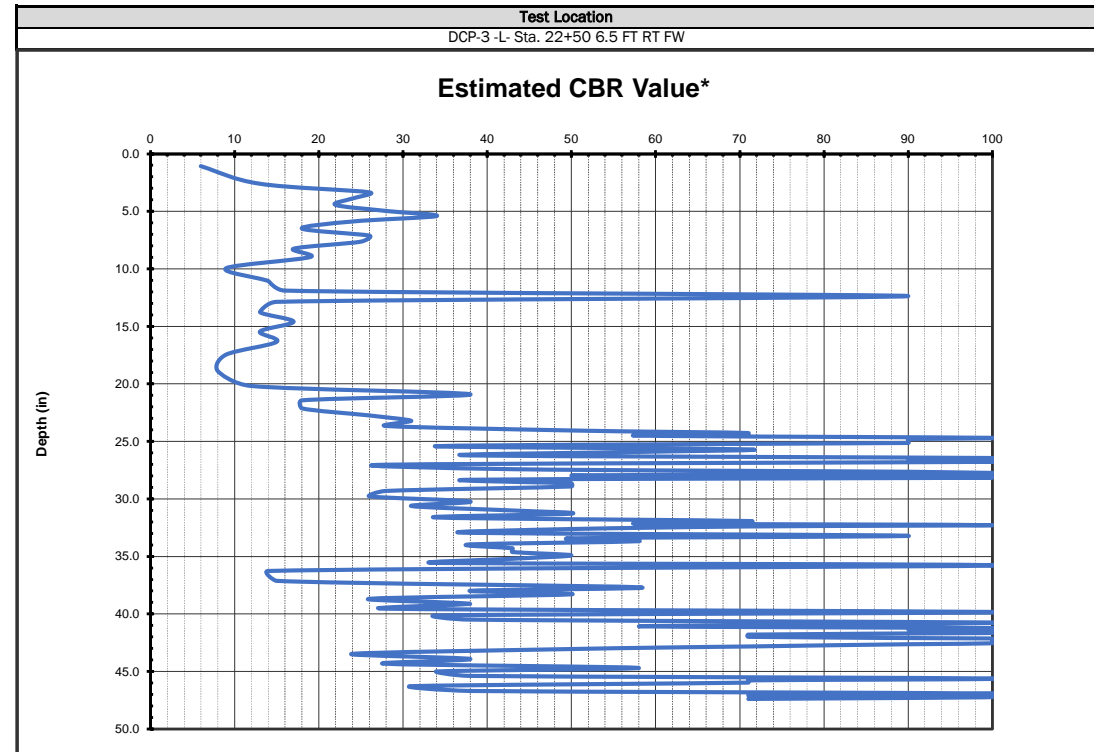
Soil Subgrade	
Average CBR	64
Weighted Average	29
Max CBR	100
Min CBR	6

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



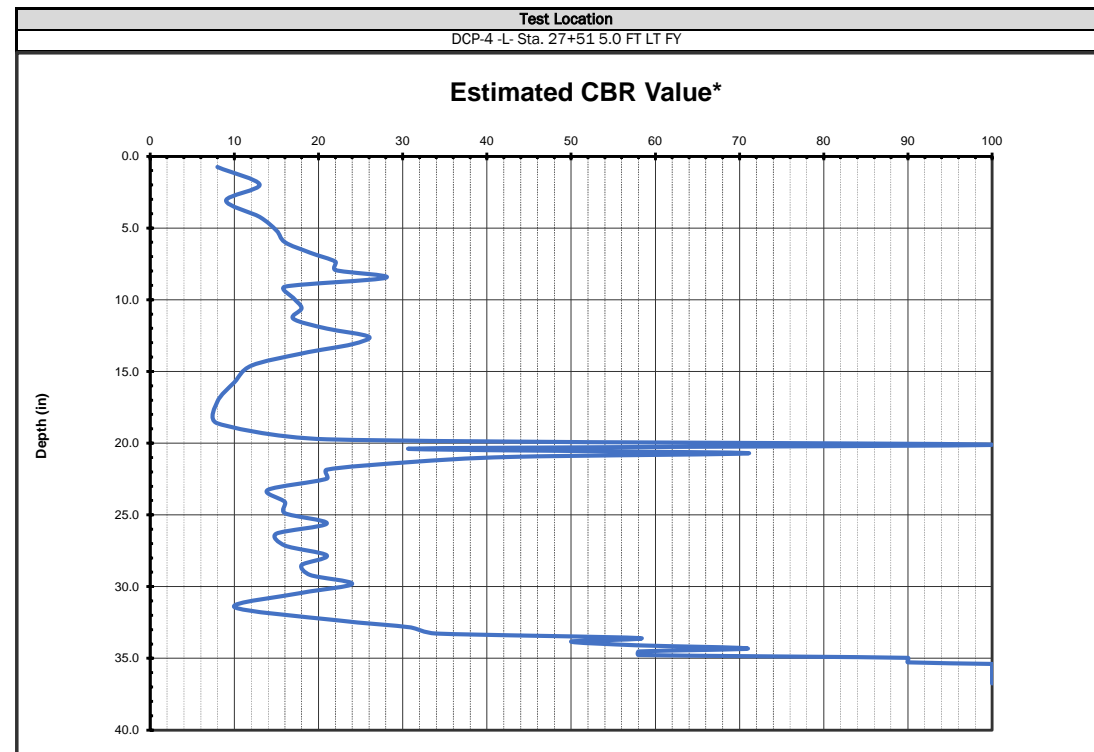


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
DCP-3 -L- Sta. 22+50 6.5 FT RT FW				11/16 to 11/22/22	DCP-4 -L- Sta. 27+51 5.0 FT LT FY				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	6.0 ft Fill				
5.40	83.20			3.80	91.79						
7.80	84.10			6.20	91.86						
9.10	84.50			9.50	91.93						
10.50	85.20			12.00	92.00						
12.00	85.80			14.20	92.07						
13.20	86.70			16.20	92.14						
14.20	87.50			17.90	92.21						
15.60	88.30			19.40	92.28						
17.40	89.00			20.90	92.35						
18.70	89.80			22.10	92.42						
20.01	90.80			24.10	92.49						
21.90	90.90			26.00	92.56						
23.60	93.20			27.80	92.63						
26.90	95.40			29.70	92.70						
29.20	96.00			31.30	92.77						
31.20	96.90			32.60	92.84						
31.60	97.60			34.00	92.91						
33.70	98.90			35.80	92.98						
36.10	99.80			38.40	93.05						
38.00	101.00			41.60	93.12						
40.40	101.20			45.30	93.19						
42.60	101.40			49.30	93.26						
46.00	102.40			50.90	93.33						
49.90	103.30			51.20	93.40						
52.60	103.60			52.30							
53.50	104.00			52.80							
55.30	104.60			53.60							
57.10	104.80			54.70							
58.40	105.20			56.30							
59.50	105.50			57.90							
60.70	105.70			60.20							
61.40	105.90			62.20							
61.90	106.40			64.20							
62.50	106.90			65.80							
62.80	107.10			67.90							
63.20	107.40			69.90							
63.60	107.50			71.50							
64.00	107.80			73.30							
65.00	108.00			75.00							
65.50	108.10			76.40							
66.10	108.50			78.20							
67.00	109.00			81.40							
67.30	109.70			82.90							
67.50	111.10			84.00							
67.90	112.00			85.00							
68.00	113.20			85.60							
69.20	113.80			86.30							
70.00	114.80			86.90							
70.40	115.70			87.40							
70.70	116.00			88.00							
71.40	116.50			88.60							
71.50	117.00			89.00							
72.40	118.10			89.40							
73.10	119.00			89.80							
73.80	119.30			90.00							
75.00	119.80			90.30							
76.30	120.10			90.60							
77.20	120.60			90.90							
78.30				91.10							
79.10				91.30							
79.80				91.37							
80.80				91.44							
81.30				91.51							
81.90				91.58							
82.00				91.65							
82.50				91.72							



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	54
Weighted Average	33
Max CBR	100
Min CBR	6



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

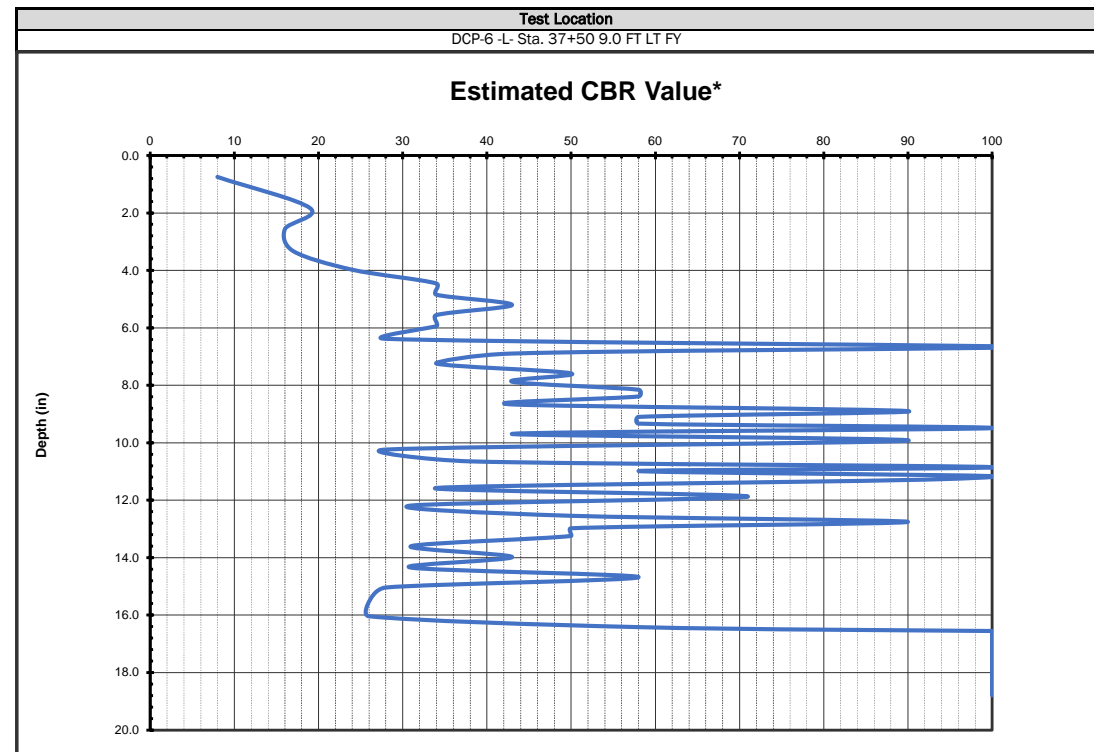
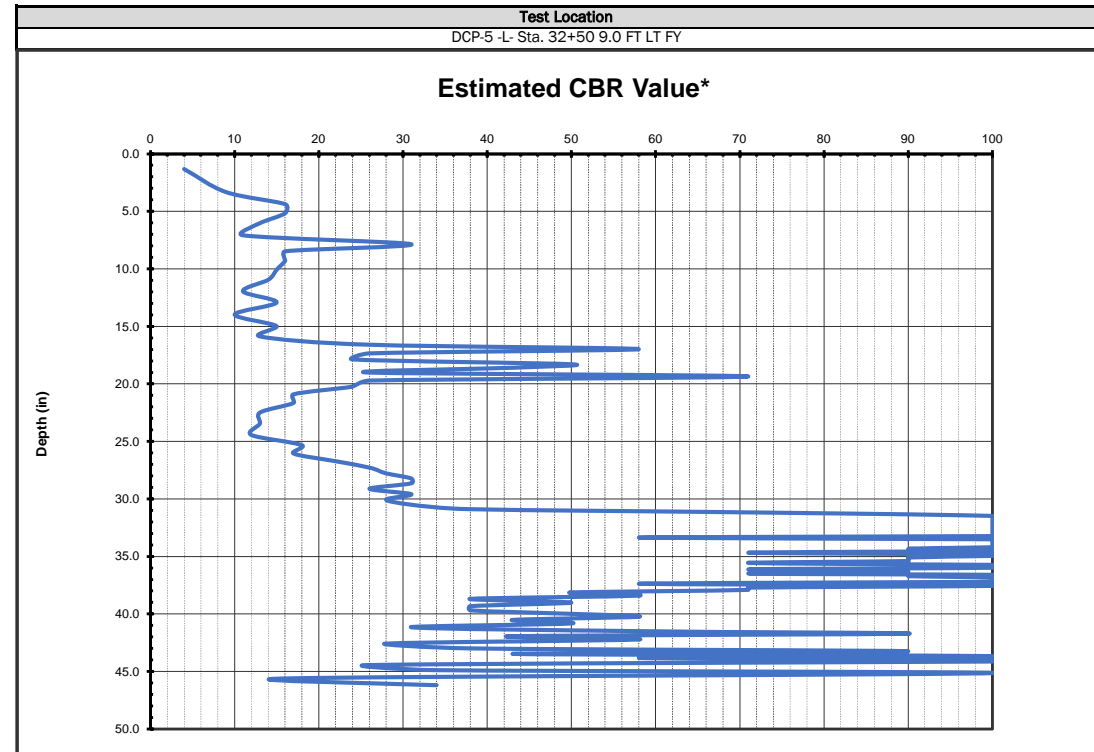
Soil Subgrade	
Average CBR	58
Weighted Average	23
Max CBR	100
Min CBR	8

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)





DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location	Date Run			
DCP-5 -L- Sta. 32+50 9.0 FT LT FY				11/16 to 11/22/22	DCP-6 -L- Sta. 37+50 9.0 FT LT FY	11/16 to 11/22/22			
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		SG (A-4)	8.0 ft Fill	DCP	Cumulative cm per blow		SG (A-7-6)	5.0 ft Fill
6.70	82.10	99.40			3.80	43.83			
10.10	82.16	100.30			5.50	43.90			
12.10	82.22	101.20			7.50	44.03			
14.10	82.28	101.90			9.40	44.16			
16.50	82.34	102.50			10.80	44.29			
19.40	82.40	103.30			11.80	44.42			
20.50	82.50	104.00			12.80	44.55			
22.50	82.60	105.10			13.60	44.68			
24.50	82.70	105.70			14.60	44.81			
26.60	82.80	106.10			15.60	44.94			
28.90	82.90	106.90			16.80	45.07			
31.70	83.00	107.50			16.90	45.20			
33.90	83.10	108.70			17.10	45.34			
37.00	83.20	109.60			17.90	45.48			
39.10	83.30	110.00			18.90	45.62			
41.50	83.40	110.80			19.60	45.76			
42.80	83.50	111.00			20.40	45.90			
43.40	83.60	111.60			21.00	46.04			
44.70	83.70	111.90			21.60	46.18			
46.10	83.80	112.20			22.40	46.32			
46.80	83.90	113.50			22.80	46.46			
47.60	84.00	114.50			23.40	46.60			
48.90	84.10	114.80			24.00	46.72			
49.40	84.20	116.80			24.20	46.84			
50.70	84.30	117.80			25.00	46.96			
52.10	84.40				25.40	47.08			
54.00	85.00				26.60	47.20			
55.90	85.20				27.50	47.32			
58.30	85.40				27.60	47.44			
60.70	85.60				28.20	47.56			
63.40	85.80				28.50	47.68			
65.20	86.10				28.90	47.80			
67.10	86.20				29.90	DCP REF			
68.60	86.50				30.40	50/2.0"			
69.90	86.70				31.50				
71.10	87.00				32.20				
72.20	87.40				32.60				
73.30	87.60				33.30				
74.60	87.80				34.00				
75.70	88.30				35.10				
76.90	88.60				35.90				
78.00	88.90				37.00				
78.90	89.30				37.60				
79.40	89.70				38.80				
79.80	90.10				40.10				
80.10	90.60				41.40				
80.40	90.90				42.00				
80.51	91.00				42.10				
80.62	91.30				42.21				
80.73	91.50				42.32				
80.84	92.00				42.43				
80.95	92.40				42.54				
81.06	92.90				42.65				
81.17	93.00				42.76				
81.28	93.40				42.87				
81.39	93.70				42.98				
81.50	94.00				43.09				
81.56	94.30				43.20				
81.62	94.60				43.27				
81.68	95.20				43.34				
81.74	95.50				43.41				
81.80	96.00				43.48				
81.86	96.50				43.55				
81.92	97.20				43.62				
81.98	97.80				43.69				
82.04	98.70				43.76				

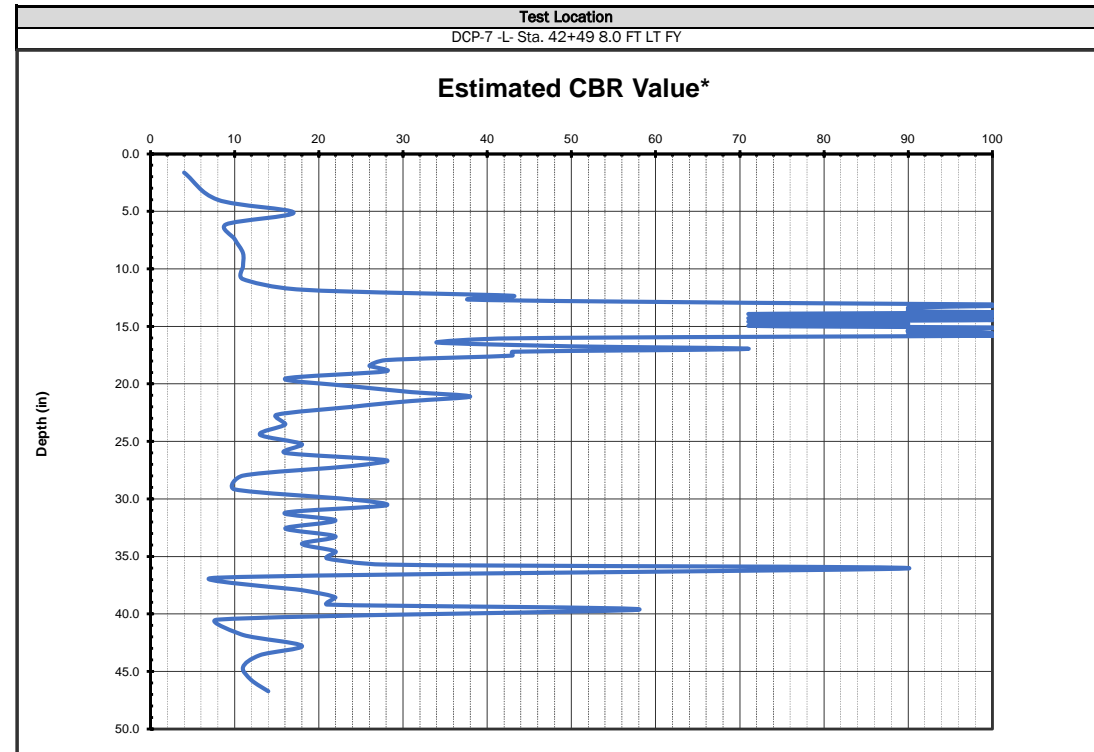


\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



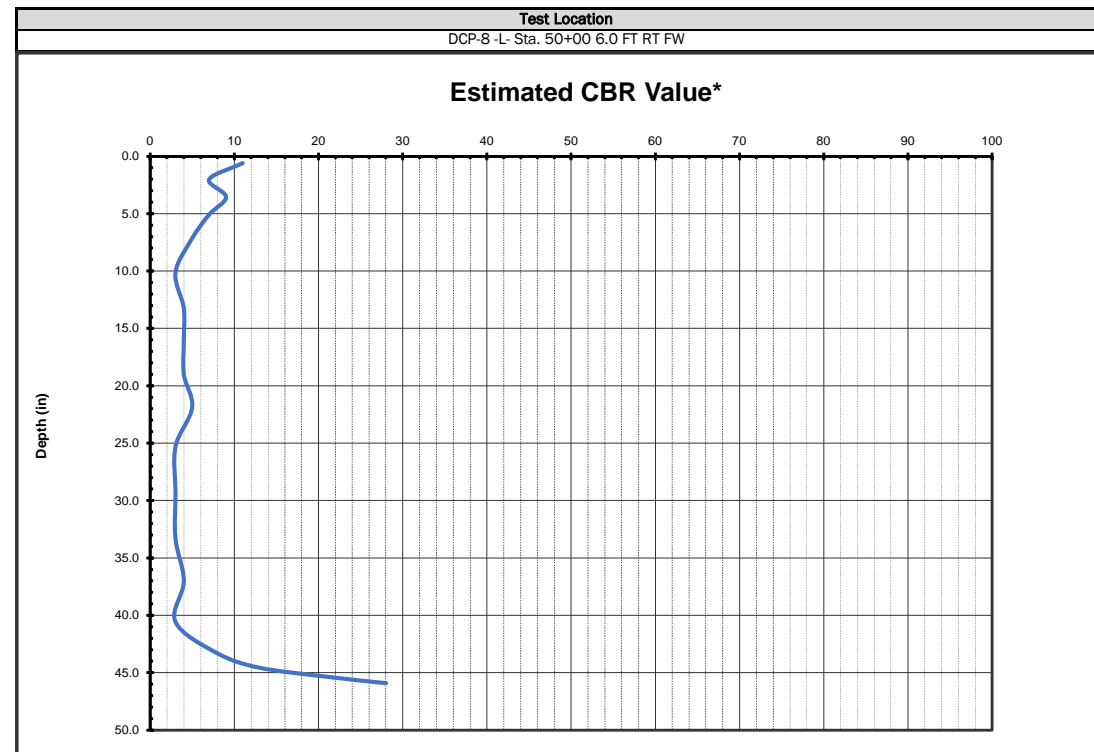


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-7 -L- Sta. 42+49 8.0 FT LT FY				11/16 to 11/22/22	DCP-8 -L- Sta. 50+00 6.0 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	4.0 ft Fill
8.20	91.30			3.00			
12.00	91.70			7.20			
13.90	95.40			10.80			
17.20	97.20			15.00			
20.40	98.70			21.30			
23.40	100.30			30.10			
26.20	100.90			37.20			
29.10	104.70			44.20			
30.90	107.70			52.30			
31.70	109.50			58.90			
32.60	111.90			69.70			
33.10	114.80			79.30			
33.40	117.50			89.90			
33.70	119.80			98.20			
34.10				108.00			
34.50				112.00			
34.90				114.40			
35.10				116.00			
35.60				117.20			
35.70							
36.00							
36.50							
36.80							
37.30							
37.70							
38.20							
38.40							
38.70							
39.10							
39.50							
39.60							
40.00							
40.30							
41.10							
42.10							
42.80							
43.30							
44.10							
44.90							
46.10							
47.40							
48.60							
50.60							
52.00							
53.10							
54.00							
55.10							
56.50							
58.70							
60.70							
63.20							
65.00							
67.00							
68.20							
69.60							
72.50							
75.60							
77.00							
78.20							
80.20							
81.70							
83.70							
85.20							
87.00							
88.50							
90.10							



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	42
Weighted Average	22
Max CBR	100
Min CBR	4



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

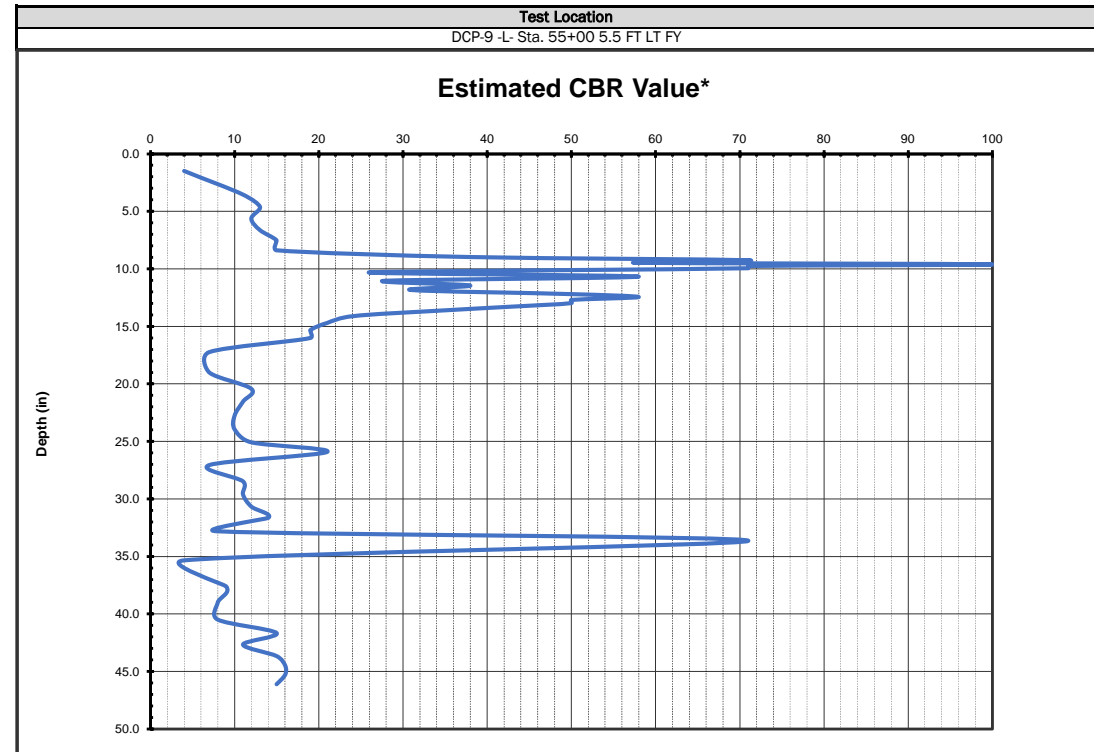
Soil Subgrade	
Average CBR	8
Weighted Average	5
Max CBR	28
Min CBR	3

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



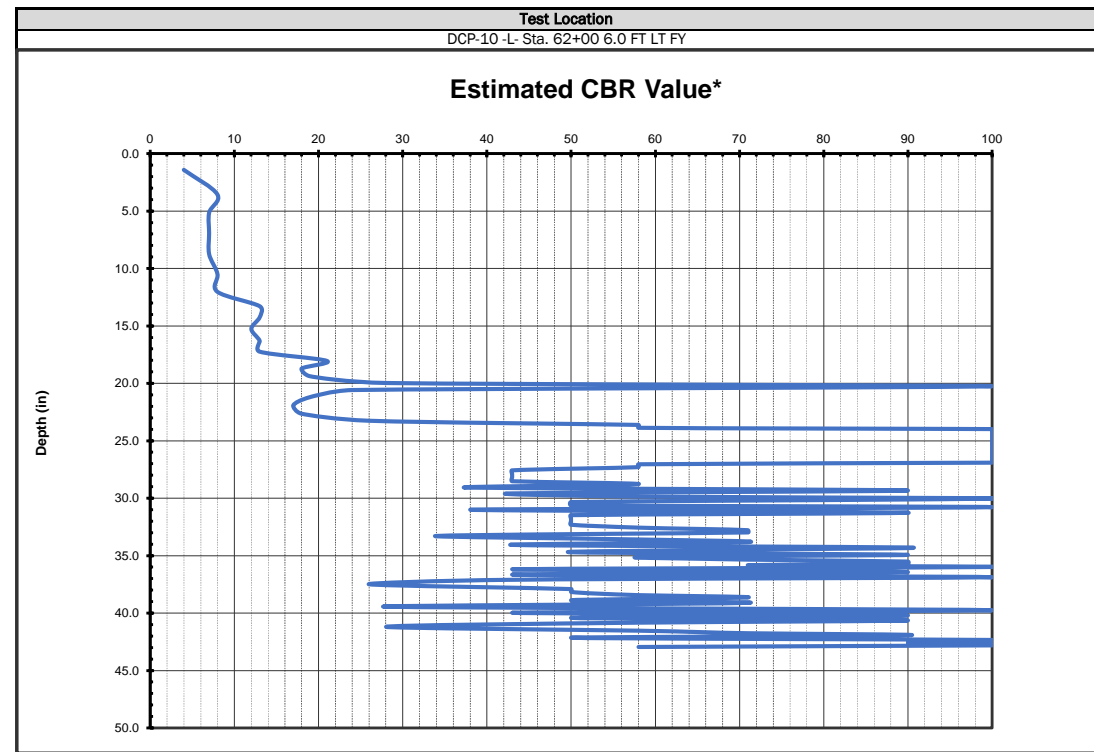


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
DCP-9 -L- Sta. 55+00 5.5 FT LT FY				11/16 to 11/22/22	DCP-10 -L- Sta. 62+00 6.0 FT LT FY				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill
7.50				7.10	65.54	101.90					
10.40				10.90	65.82	102.30					
12.90				15.30	66.10	103.00					
15.60				19.90	66.44	103.40					
18.00				24.50	66.78	104.00					
20.20				28.60	67.12	105.20					
22.30				32.50	67.46	105.80					
23.20				35.00	67.80	106.30					
23.70				37.40	67.92	106.70					
24.30				40.10	68.04	107.40					
24.50				42.60	68.16	107.70					
25.00				45.00	68.28	108.00					
25.50				46.60	68.40	108.40					
26.80				48.40	69.00	108.60					
27.40				50.10	69.60	108.80					
28.60				51.30	70.40	109.40					
29.50				51.60	71.20						
30.60				53.00	72.00						
31.30				54.70	72.80						
31.90				56.60	73.40						
32.60				58.40	74.30						
33.30				59.70	74.70						
34.10				60.30	75.50						
35.10				60.90	76.10						
36.50				60.95	76.30						
38.10				60.99	76.70						
39.80				61.04	77.40						
41.50				61.08	78.10						
46.00				61.13	78.30						
50.50				61.17	79.20						
53.20				61.22	79.60						
56.20				61.26	80.30						
59.30				61.31	81.00						
62.40				61.35	81.70						
65.00				61.40	82.40						
66.60				61.44	83.00						
70.80				61.49	83.50						
73.80				61.53	84.00						
76.60				61.58	85.00						
79.20				61.62	85.60						
81.50				61.67	86.10						
85.20				61.71	86.90						
85.70				61.76	87.30						
93.80				61.80	87.80						
97.20				61.95	88.50						
101.00				62.09	88.90						
104.70				62.24	89.50						
106.90				62.38	90.00						
109.80				62.53	90.40						
112.00				62.67	90.80						
114.00				62.82	91.30						
116.00				62.96	91.50						
118.20				63.11	92.30						
				63.25	92.70						
				63.40	93.50						
				63.54	93.80						
				63.69	94.60						
				63.83	95.90						
				63.98	96.60						
				64.12	97.30						
				64.27	97.90						
				64.41	98.40						
				64.56	99.10						
				64.70	99.60						
				64.98	100.80						
				65.26	101.10						



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	26
Weighted Average	15
Max CBR	100
Min CBR	4



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

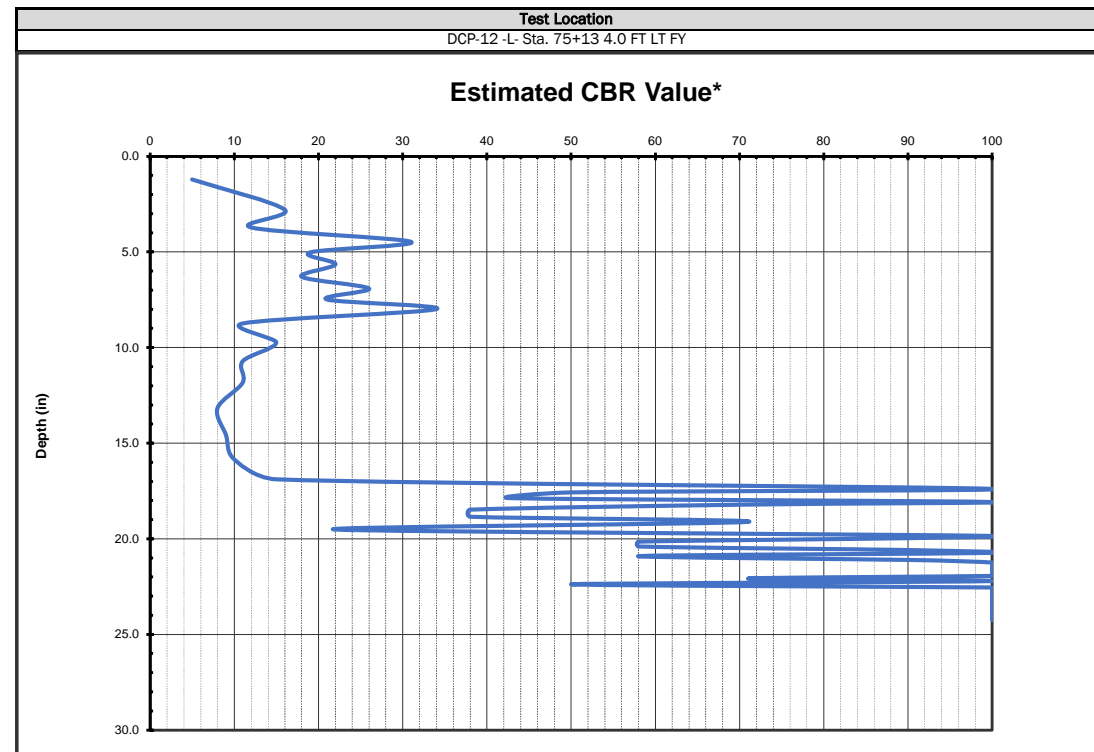
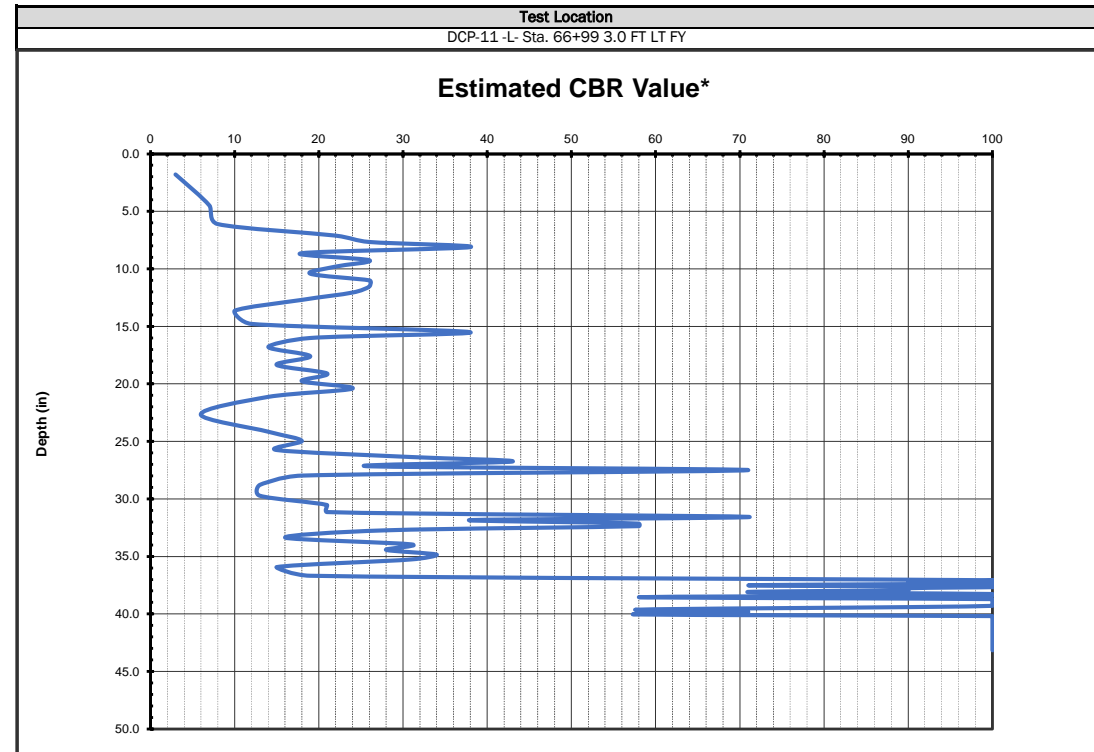
Soil Subgrade	
Average CBR	71
Weighted Average	35
Max CBR	100
Min CBR	4

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)





DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run
DCP-11 -L- Sta. 66+99 3.0 FT LT FY				11/16 to 11/22/22	DCP-12 -L- Sta. 75+13 4.0 FT LT FY				11/16 to 11/22/22
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	SG (A-7-6)		5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)		5.0 ft Fill
9.10	99.22	109.20			6.10	58.55			
13.60	99.39	109.24			8.10	58.60			
17.30	99.56	109.28			10.80	58.64			
18.80	99.73	109.32			11.90	58.69			
20.10	99.90	109.36			13.60	58.73			
21.00	100.30	109.40			15.10	58.78			
22.80	100.90	109.44			16.90	58.82			
24.10	101.40	109.48			18.20	58.87			
25.60	102.00	109.52			19.80	58.91			
27.30	102.07	109.56			20.80	58.96			
28.60	102.14	109.60			23.60	59.00			
29.90	102.21	DCP REF			25.80	59.10			
31.30	102.28	50/2.0'			28.60	59.19			
33.10	102.35				31.50	59.29			
36.20	102.42				35.40	59.38			
38.90	102.49				38.70	59.48			
39.80	102.56				41.80	59.57			
41.50	102.63				44.00	59.67			
43.80	102.70				44.30	59.76			
45.50	103.00				45.00	59.86			
47.70	103.17				45.80	59.95			
49.30	103.34				46.00	60.05			
51.10	103.51				46.50	60.14			
52.50	103.68				47.40	60.24			
54.80	103.85				48.30	60.33			
60.20	104.02				48.80	60.43			
62.50	104.19				50.30	60.52			
64.30	104.36				50.50	60.62			
66.40	104.53				50.90	60.71			
67.50	104.70				51.50	60.81			
68.30	104.90				52.10	60.90			
69.60	105.10				52.50	60.94			
70.10	105.30				52.80	60.97			
71.90	105.50				53.40	61.01			
74.30	105.70				53.80	61.04			
76.70	105.96				54.10	61.08			
78.30	106.22				54.30	61.11			
79.90	106.48				54.60	61.15			
80.40	106.74				54.90	61.18			
81.30	107.00				55.20	61.22			
81.90	107.30				55.50	61.25			
82.50	107.40				55.60	61.29			
83.70	107.50				55.70	61.32			
85.70	107.60				55.80	61.36			
86.80	107.70				56.30	61.39			
88.00	107.80				56.50	61.43			
89.00	107.90				57.20	61.46			
90.10	108.04				57.29	61.50			
92.30	108.18				57.38	61.53			
94.00	108.32				57.47	61.57			
94.30	108.46				57.56	61.60			
94.70	108.60				57.65	DCP REF			
95.00	108.64				57.74	50/1.5'			
95.50	108.68				57.83				
95.70	108.72				57.92				
96.10	108.76				58.01				
96.50	108.80				58.10				
97.00	108.84				58.15				
97.30	108.88				58.19				
97.60	108.92				58.24				
98.20	108.96				58.28				
98.37	109.00				58.33				
98.54	109.04				58.37				
98.71	109.08				58.42				
98.88	109.12				58.46				
99.05	109.16				58.51				

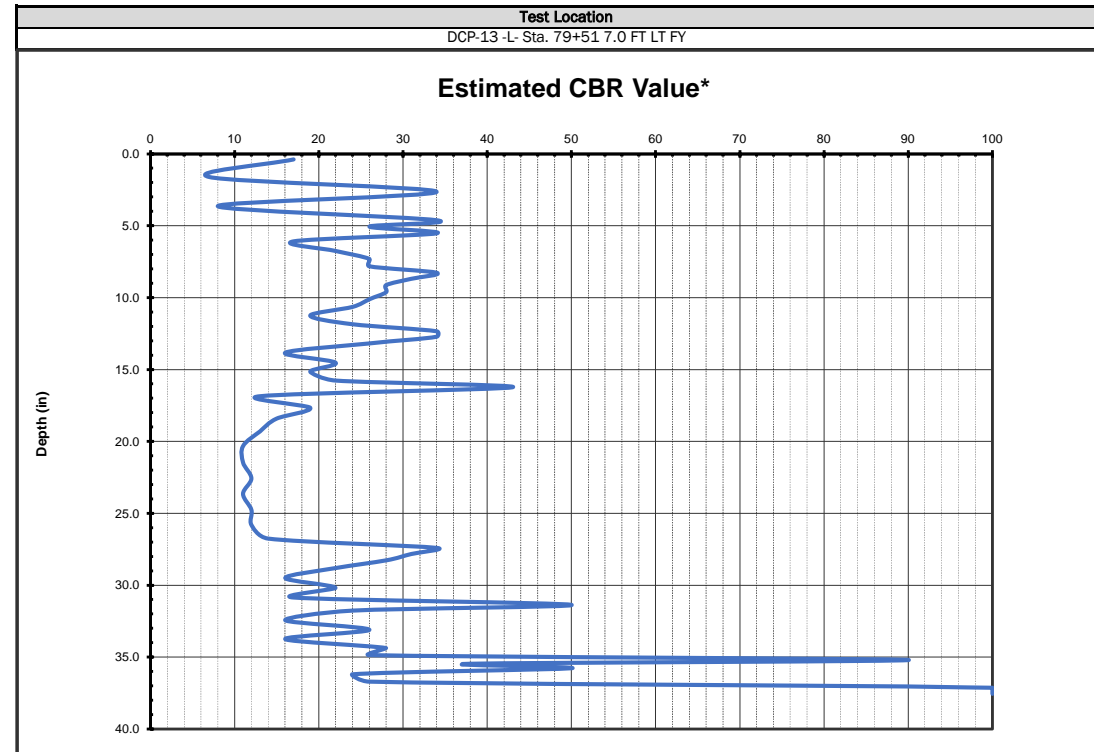


\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



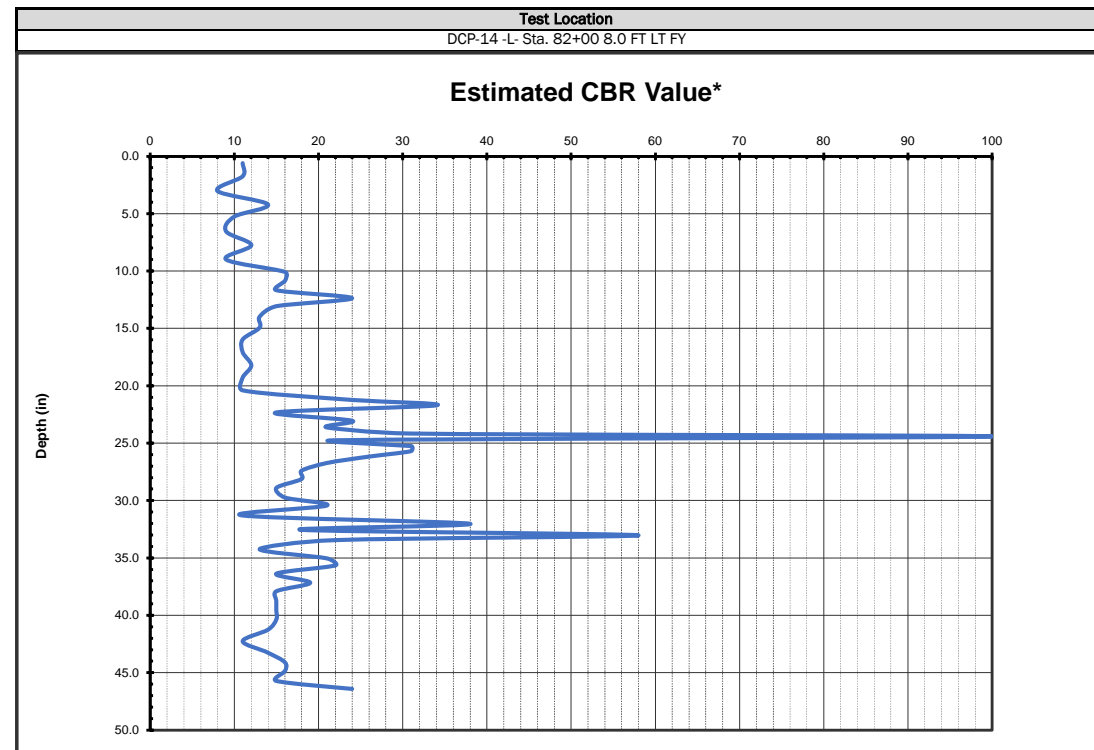


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-13 -L- Sta. 79+51 7.0 FT LT FY				11/16 to 11/22/22	DCP-14 -L- Sta. 82+00 8.0 FT LT FY		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill
1.90	94.77			3.00			
6.20	94.82			5.80			
7.20	94.88			9.50			
11.20	94.93			11.80			
12.20	94.98			14.90			
13.50	95.03			18.30			
14.50	95.09			21.00			
16.40	95.14			24.60			
17.90	95.19			26.60			
19.20	95.24			28.60			
20.50	95.30			30.70			
21.50	95.35			32.10			
22.60	95.40			34.30			
23.80	DCP REF			36.70			
25.00	BO/LP			39.10			
26.30				41.90			
27.70				44.90			
29.40				47.60			
30.80				50.40			
31.80				53.20			
32.80				54.60			
34.10				55.60			
36.10				57.80			
37.60				59.20			
39.30				60.80			
40.80				61.90			
41.60				62.10			
44.00				63.60			
45.70				64.70			
47.80				65.80			
50.20				67.10			
53.00				68.70			
56.00				70.50			
58.60				72.30			
61.50				74.50			
64.20				76.50			
66.80				78.10			
69.10				80.90			
70.10				81.80			
71.20				83.60			
72.40				84.20			
73.90				85.70			
75.90				88.20			
77.40				89.80			
79.30				91.30			
80.00				93.50			
81.40				95.20			
83.40				97.30			
84.70				99.40			
86.70				101.50			
87.90				103.60			
89.20				105.90			
89.60				108.70			
90.50				111.00			
91.20				113.00			
92.60				115.00			
93.90				117.20			
94.30				118.60			
94.35							
94.40							
94.46							
94.51							
94.56							
94.61							
94.67							
94.72							



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	46
Weighted Average	21
Max CBR	100
Min CBR	7



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

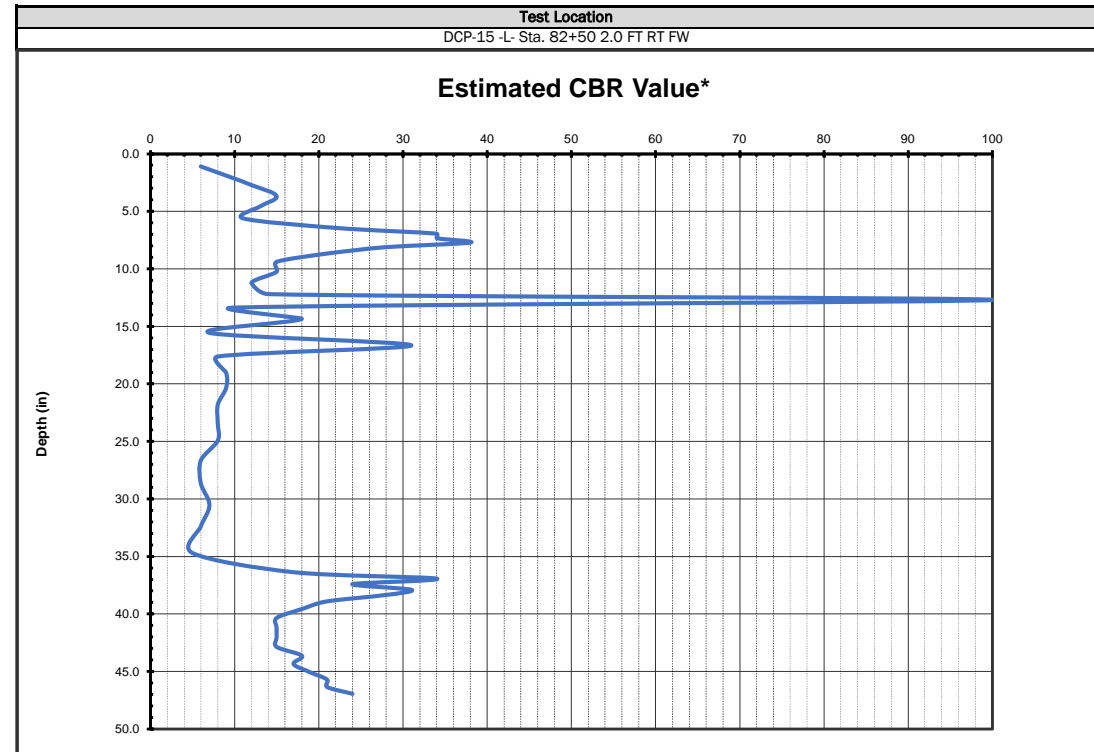
Soil Subgrade	
Average CBR	19
Weighted Average	16
Max CBR	100
Min CBR	8

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



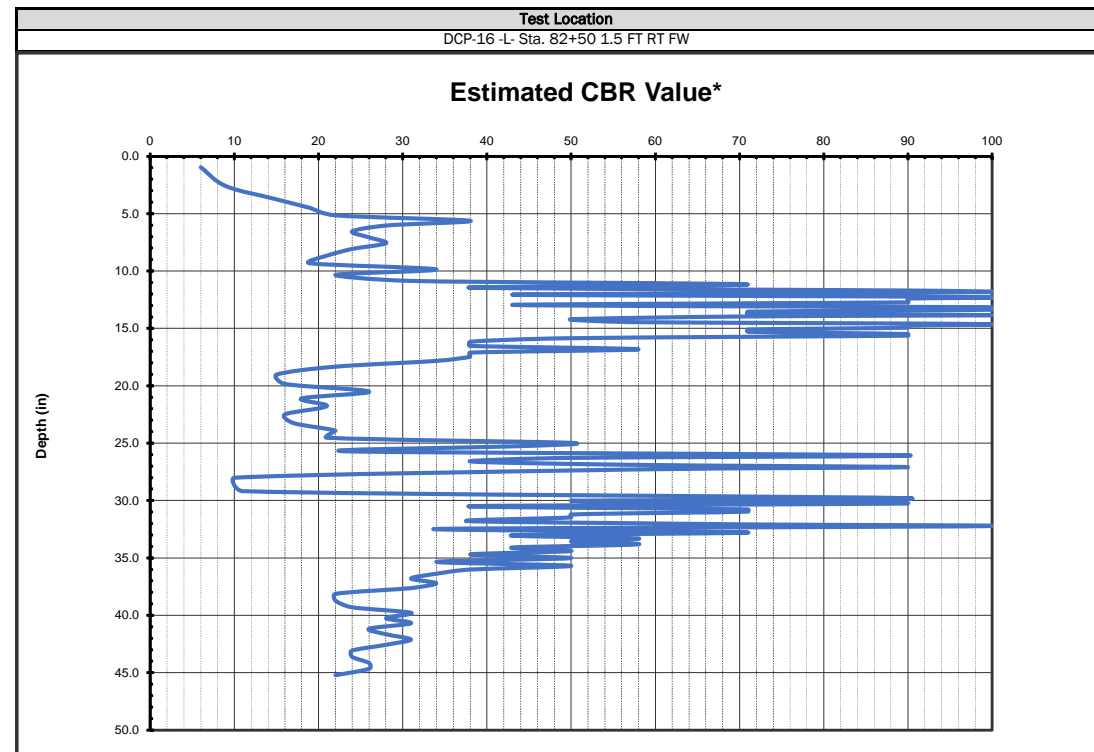


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-15 -L- Sta. 82+50 2.0 FT RT FW				11/16 to 11/22/22	DCP-16 -L- Sta. 82+50 1.5 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	3.0 ft Fill	DCP	Cumulative cm per blow	SG (A-2-4)	5.0 ft Fill
5.50				4.80	69.00		
8.20				8.40	69.60		
10.40				10.60	72.70		
12.80				12.30	75.50		
15.60				13.80	75.90		
17.10				14.70	76.60		
18.10				15.90	77.00		
19.10				17.30	77.90		
20.00				18.60	78.40		
21.20				19.80	78.90		
22.80				21.20	79.60		
24.90				22.80	80.30		
27.10				24.50	81.20		
29.80				25.50	81.70		
32.10				27.00	82.00		
32.30				28.10	83.00		
35.50				28.60	83.50		
37.30				29.50	84.30		
41.70				29.90	84.90		
42.80				30.20	85.60		
46.60				31.00	86.20		
49.90				31.30	87.00		
53.40				31.70	87.70		
57.40				32.10	88.60		
61.40				32.50	89.30		
65.20				33.30	90.30		
70.20				33.50	91.00		
75.30				33.80	91.90		
79.70				34.10	92.90		
84.80				34.60	94.00		
91.40				35.10	95.00		
93.30				35.20	96.10		
94.30				35.70	97.60		
95.70				36.40	99.10		
96.80				37.00	100.50		
98.00				37.30	101.60		
99.60				37.70	102.80		
101.40				38.10	103.90		
103.50				38.60	105.20		
105.70				39.10	106.40		
107.80				39.50	107.50		
109.90				39.90	108.70		
111.70				40.60	110.10		
113.60				41.50	111.50		
115.30				42.40	112.80		
116.90				43.00	114.10		
118.50				43.90	115.60		
119.90				44.80			
				45.80			
				47.30			
				49.40			
				51.40			
				52.70			
				54.50			
				56.10			
				58.10			
				60.00			
				61.50			
				63.10			
				63.80			
				64.60			
				66.00			
				66.40			
				67.10			
				68.00			
				68.60			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	19
Weighted Average	13
Max CBR	100
Min CBR	5



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

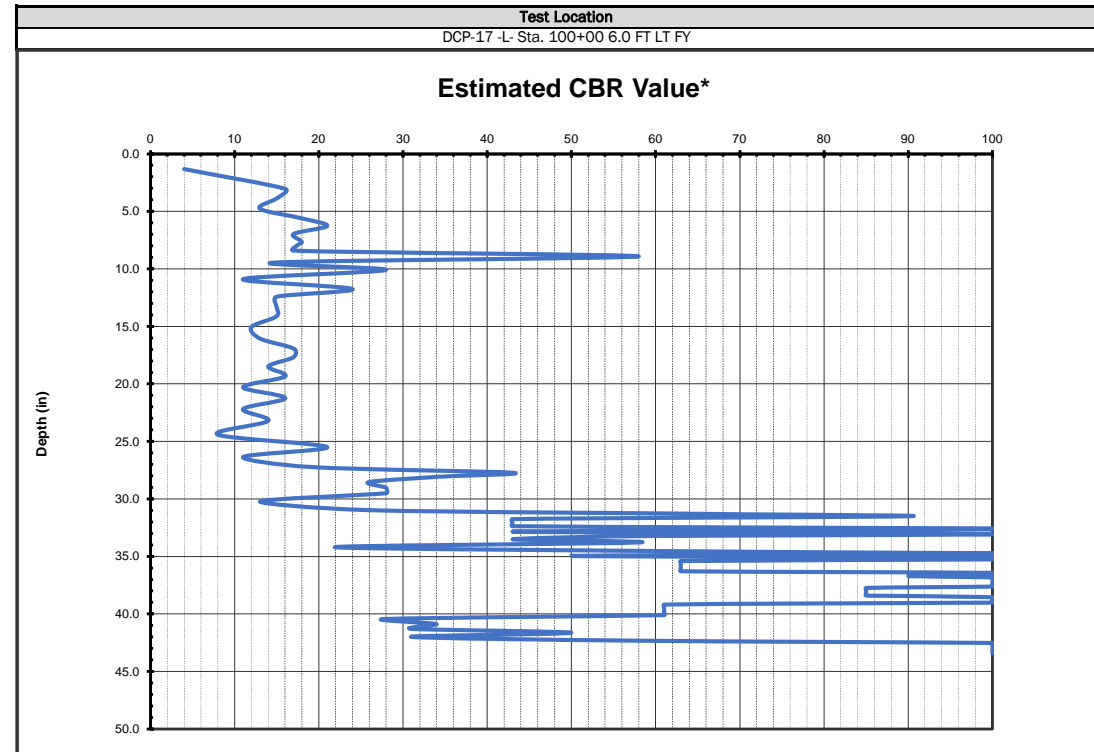
Soil Subgrade	
Average CBR	47
Weighted Average	33
Max CBR	100
Min CBR	6

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



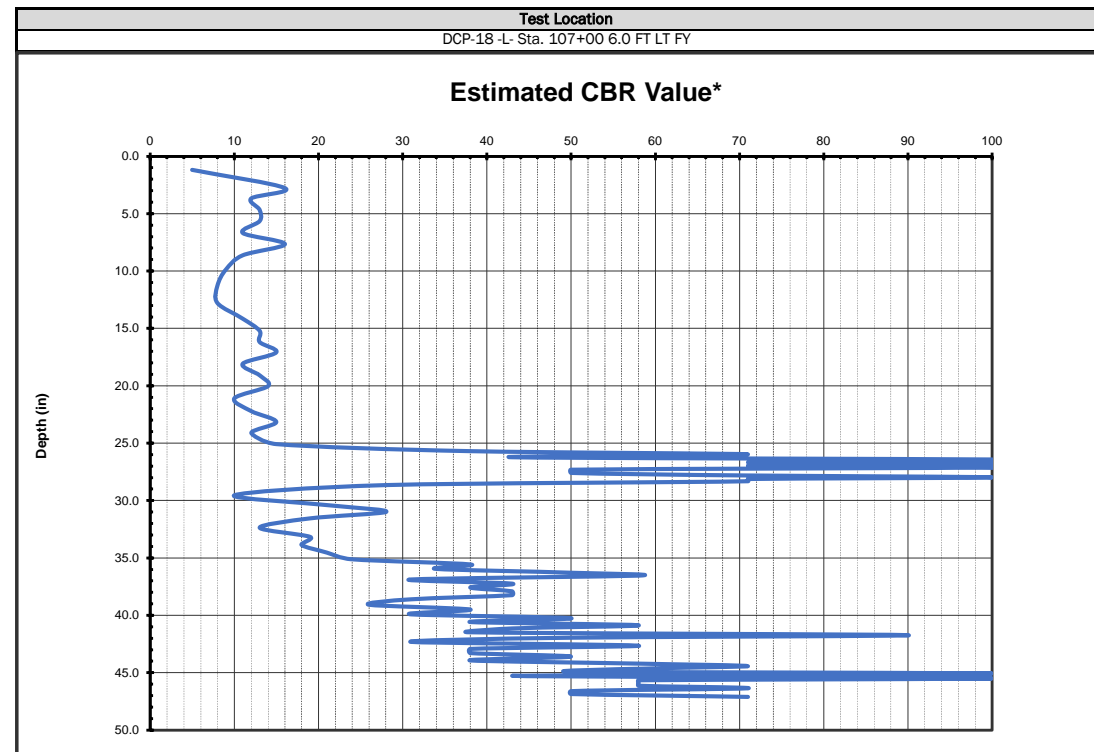


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
DCP-17 -L- Sta. 100+00 6.0 FT LT FY				11/16 to 11/22/22	DCP-18 -L- Sta. 107+00 6.0 FT LT FY				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill
6.70	93.00			6.00	106.20						
8.70	93.40			8.00	106.90						
10.90	93.60			10.60	108.00						
13.30	93.80			13.10	108.60						
15.10	94.00			15.50	109.50						
16.70	94.20			18.40	110.40						
18.60	94.40			20.40	111.10						
20.40	94.52			23.40	112.00						
22.30	94.64			26.70	112.60						
22.90	94.76			30.50	113.10						
25.00	94.88			34.40	113.70						
26.20	95.00			37.40	114.40						
29.10	95.12			39.90	114.60						
30.50	95.24			42.30	115.40						
32.60	95.36			44.50	115.70						
34.80	95.48			47.30	116.30						
36.90	95.60			49.70	116.90						
39.50	96.02			52.00	117.50						
42.00	96.44			55.10	118.00						
43.90	96.86			57.70	118.70						
45.80	97.28			59.90	119.40						
48.10	97.70			62.60	119.90						
50.10	98.00			64.80							
52.90	98.30			65.70							
54.90	98.60			66.20							
57.80	98.90			67.00							
60.10	99.20			67.20							
63.90	99.78			67.50							
65.50	100.36			68.00							
68.30	100.94			68.20							
70.00	101.52			68.70							
70.80	102.10			69.00							
71.80	103.30			69.70							
73.10	104.30			70.40							
74.30	105.40			70.90							
75.50	106.10			71.20							
78.00	107.20			71.70							
79.30	107.80			72.20							
79.80	108.10			73.40							
80.20	108.20			76.60							
81.00	108.30			78.10							
81.80	108.40			79.30							
82.60	108.50			81.00							
82.80	108.60			83.40							
83.00	108.76			85.10							
83.80	108.92			86.90							
84.10	109.08			88.50							
84.70	109.24			89.90							
85.50	109.40			90.80							
86.10	109.60			91.80							
87.60	109.80			92.50							
88.10	110.00			93.10							
88.40	110.20			94.20							
89.10	110.40			95.00							
89.20				95.90							
89.30				96.70							
89.40				97.50							
89.50				98.60							
89.60				99.90							
90.16				100.80							
90.72				101.90							
91.28				102.60							
91.84				103.50							
92.40				104.10							
92.60				104.90							
92.90				105.80							



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	63
Weighted Average	30
Max CBR	100
Min CBR	4



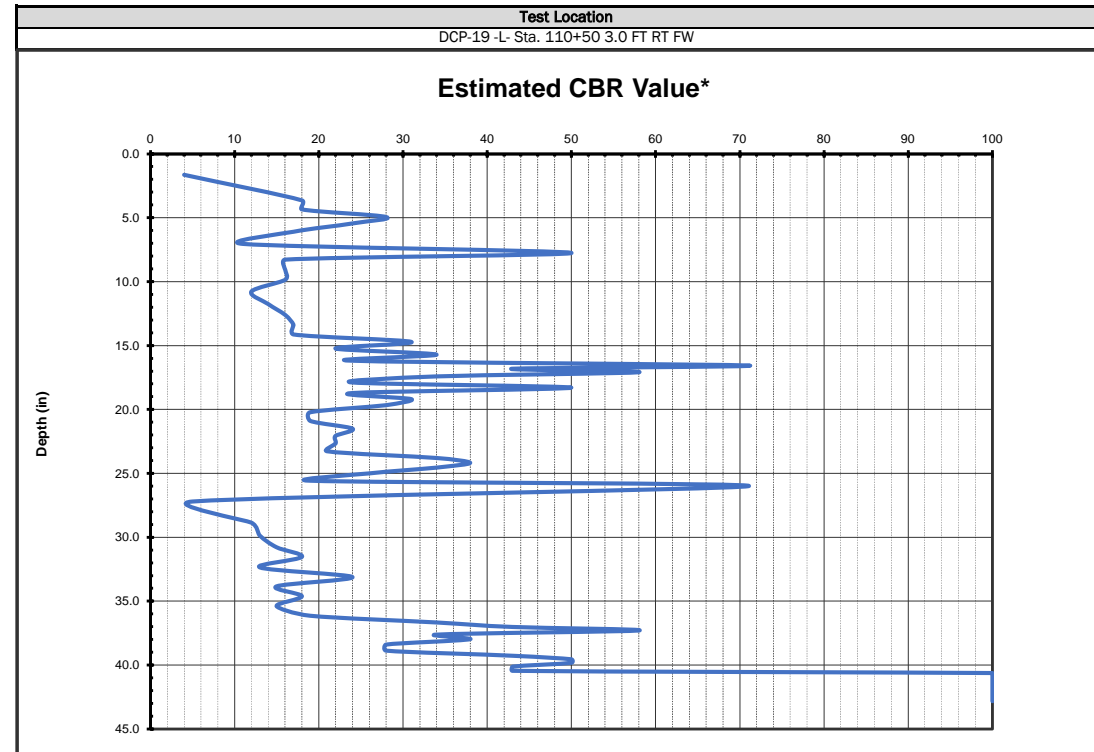
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	41
Weighted Average	24
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

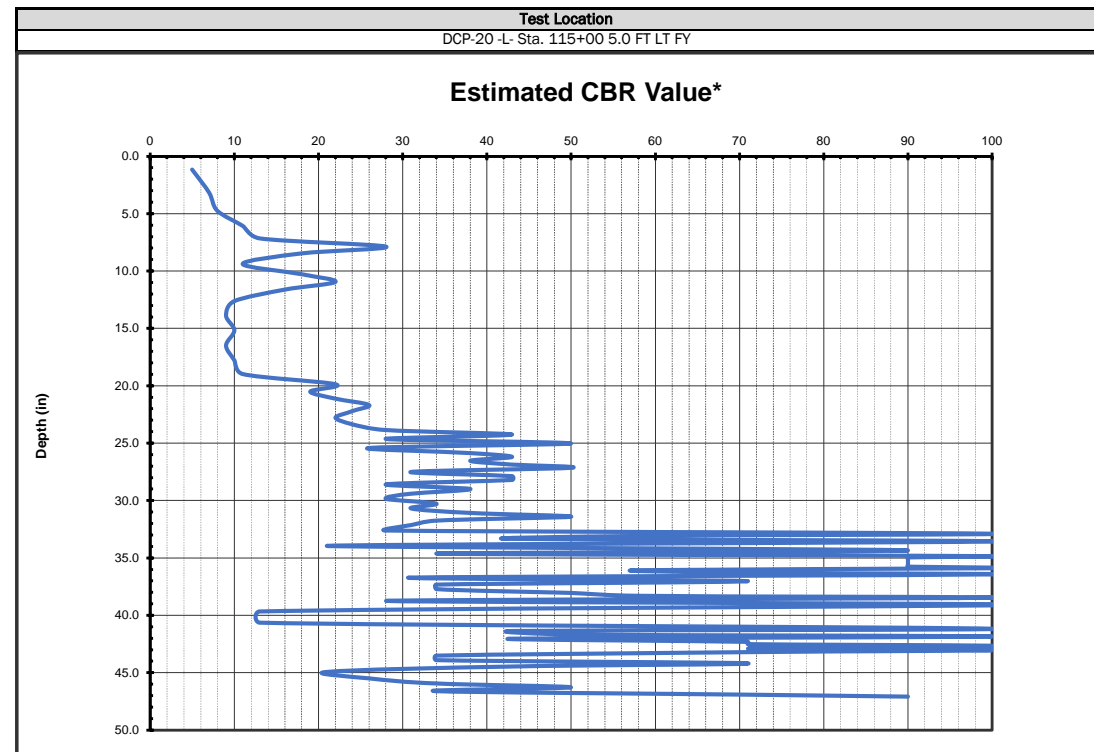


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
DCP-19 -L- Sta. 110+50 3.0 FT RT FW				11/16 to 11/22/22	DCP-20 -L- Sta. 115+00 5.0 FT LT FY				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-2-4)	5.0 ft Fill				
8.30	103.68			5.90	93.80						
10.10	103.92			10.20	94.30						
11.90	104.16			13.90	95.30						
13.10	104.40			16.90	96.30						
14.50	104.54			19.40	97.00						
16.40	104.68			20.60	97.60						
19.30	104.82			22.40	97.80						
20.00	104.96			25.20	99.00						
22.00	105.10			27.00	99.30						
24.00	105.32			28.50	99.50						
26.00	105.54			30.50	102.00						
28.70	105.76			33.60	104.40						
31.00	105.98			36.90	104.70						
33.00	106.20			40.10	105.50						
34.90	106.30			43.60	106.20						
36.80	106.40			46.70	106.40						
37.90	106.50			49.70	107.20						
39.40	106.60			51.20	107.70						
40.40	106.70			52.90	108.20						
41.80	106.83			54.40	108.40						
42.30	106.96			55.70	108.70						
43.10	107.09			57.10	109.20						
43.70	107.22			58.60	109.50						
44.70	107.35			60.00	110.00						
46.10	107.48			61.20	111.00						
46.80	107.61			62.00	112.00						
48.20	107.74			63.20	112.50						
49.30	107.87			63.90	113.30						
50.50	108.00			65.20	114.90						
52.20	108.08			66.10	116.20						
53.90	108.16			66.90	117.20						
55.30	108.24			67.80	117.90						
56.80	108.32			68.60	118.90						
58.30	108.40			69.30	119.40						
59.90	108.48			70.40	119.80						
60.90	108.56			71.20							
61.80	108.64			72.00							
62.80	108.72			73.20							
64.10	108.80			74.10							
65.80				75.20							
66.30				76.40							
71.90				77.40							
74.60				78.50							
77.10				79.40							
79.20				80.10							
81.00				81.10							
83.40				82.20							
84.80				83.40							
87.00				83.70							
88.80				84.30							
90.90				85.10							
92.60				85.40							
93.60				87.00							
94.40				87.40							
95.00				88.40							
96.00				88.60							
96.90				89.00							
98.10				89.40							
99.30				89.80							
100.10				90.20							
100.80				90.60							
101.50				91.00							
102.30				91.30							
103.10				91.90							
103.20				92.40							
103.44				92.70							



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	56
Weighted Average	25
Max CBR	100
Min CBR	4



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

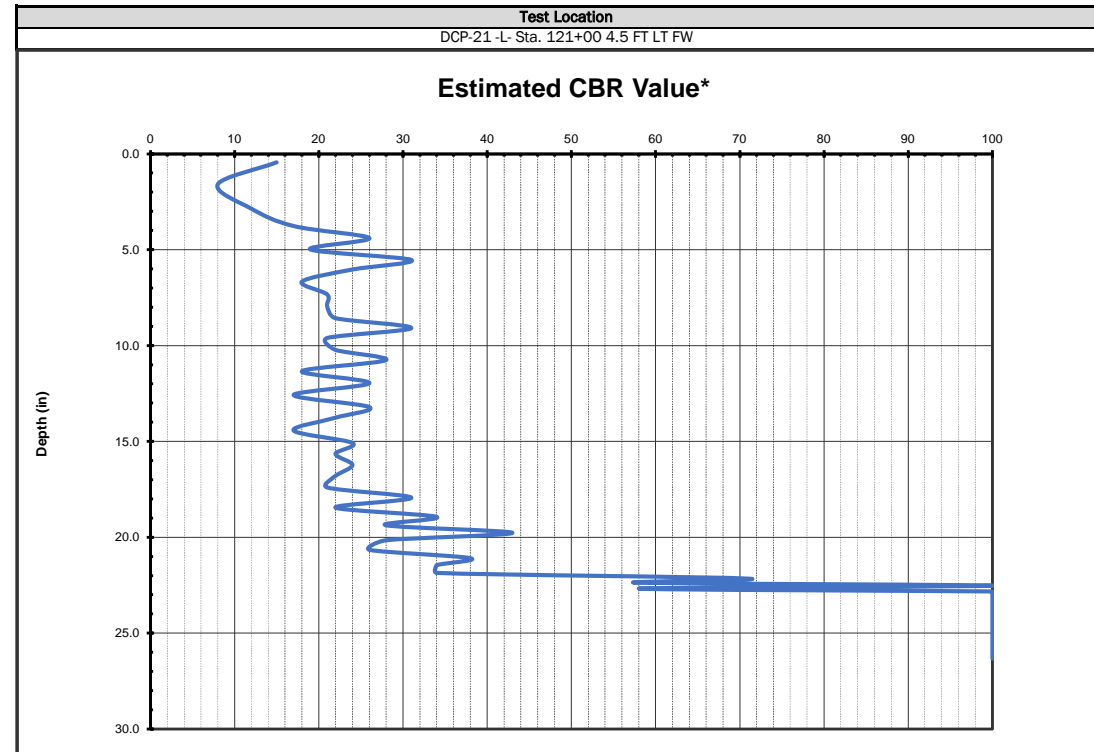
Soil Subgrade	
Average CBR	47
Weighted Average	28
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



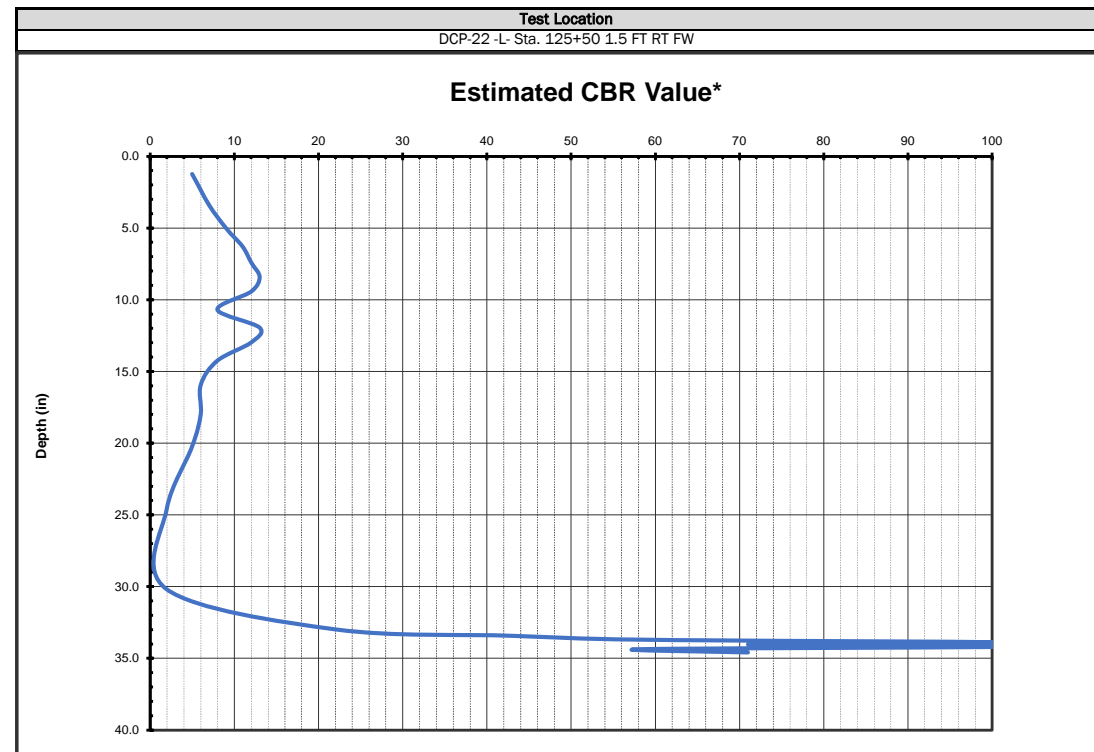


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-21 -L- Sta. 121+00 4.5 FT LT FW				11/16 to 11/22/22	DCP-22 -L- Sta. 125+50 1.5 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	7.0 ft Fill	DCP	Cumulative cm per blow	SG	7.0 ft Fill
2.20	60.67			6.30			
5.90	60.76			10.90			
8.60	60.84			14.50			
10.50	60.93			17.50			
11.80	61.01			20.10			
13.50	61.10			22.60			
14.60	61.18			25.20			
16.00	61.25			29.10			
17.80	61.33			31.60			
19.40	61.40			34.30			
21.00	61.48			38.00			
22.50	61.55			42.90			
23.60	61.63			48.40			
25.20	61.70			54.30			
26.70	61.78			70.40			
27.90	61.85			83.00			
29.70	61.93			84.50			
31.00	62.00			85.30			
32.90	62.08			85.90			
34.20	62.15			86.20			
35.70	62.23			86.70			
37.60	62.30			86.80			
39.00	62.38			87.00			
40.50	62.45			87.60			
41.90	62.53			88.10			
43.40	62.60			Terminated			
45.00	62.75			Due to			
46.10	62.90			Utility			
47.60	63.05						
48.60	63.20						
49.80	63.35						
50.60	63.50						
51.80	63.65						
53.10	63.80						
54.00	63.95						
55.00	64.10						
56.00	64.28						
56.50	64.46						
57.10	64.64						
57.30	64.82						
57.90	65.00						
58.06	65.18						
58.22	65.36						
58.38	65.54						
58.54	65.72						
58.70	65.90						
58.82	66.00						
58.94	66.10						
59.06	66.20						
59.18	66.30						
59.30	66.40						
59.39	66.50						
59.47	66.60						
59.56	66.70						
59.64	66.80						
59.73	66.90						
59.81	DCP REF						
59.90	60/2.0'						
59.99							
60.07							
60.16							
60.24							
60.33							
60.41							
60.50							
60.59							



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	76
Weighted Average	34
Max CBR	100
Min CBR	8



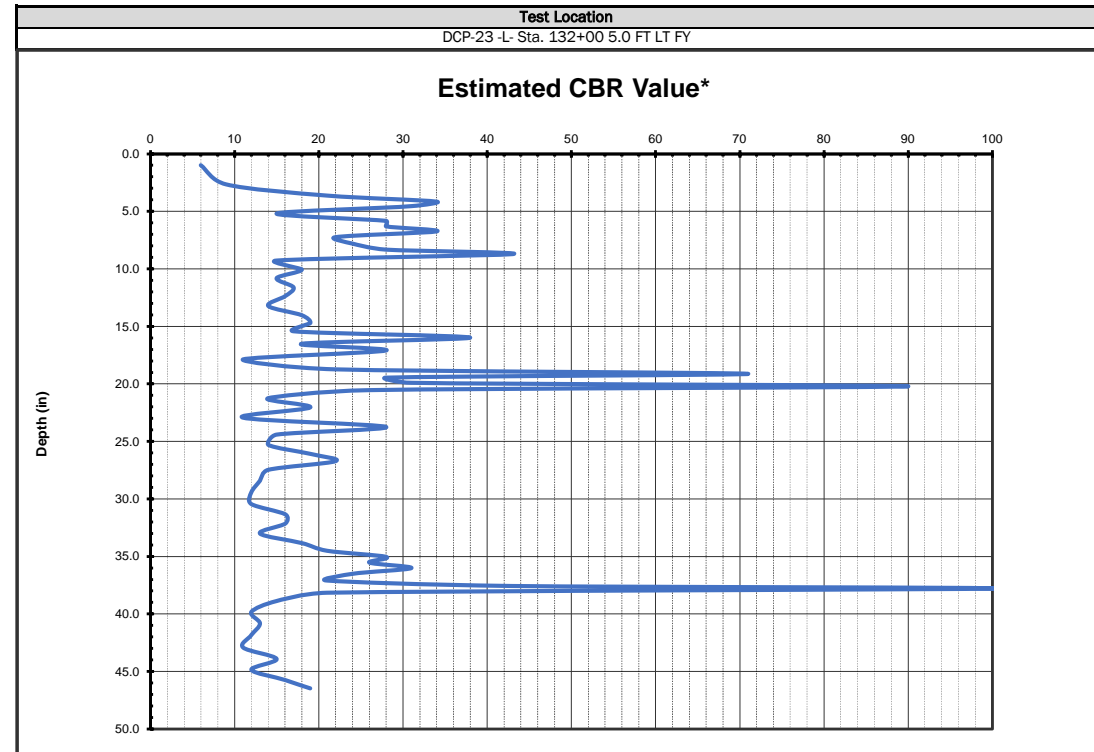
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	30
Weighted Average	9
Max CBR	100
Min CBR	2

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

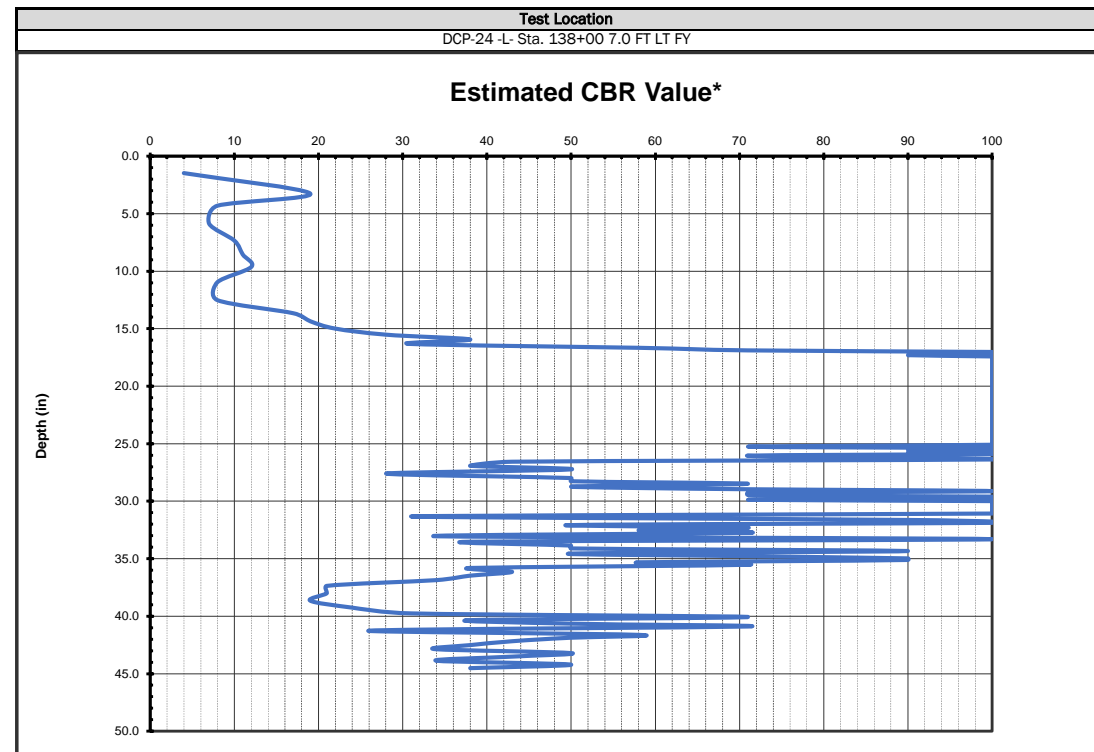


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
DCP-23 -L- Sta. 132+00 5.0 FT LT FY				11/16 to 11/22/22	DCP-24 -L- Sta. 138+00 7.0 FT LT FY				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-2-4)	5.0 ft Fill				
5.00				7.40	56.06	79.00					
8.40				9.10	56.34	80.10					
10.00				12.80	56.62	80.50					
11.00				17.00	56.90	80.80					
12.10				20.20	57.10	81.10					
14.20				23.10	57.30	81.80					
15.40				25.80	57.50	82.30					
16.60				29.80	57.70	82.90					
17.60				33.70	57.90	83.40					
19.10				35.60	58.20	84.40					
20.50				37.30	58.50	84.70					
21.70				38.80	58.80	85.60					
22.50				40.00	59.10	86.30					
24.60				40.90	59.40	87.00					
26.40				42.00	59.62	87.40					
28.50				42.60	59.84	88.10					
30.40				43.10	60.06	88.60					
32.40				43.40	60.28	89.00					
34.70				43.70	60.50	89.40					
36.50				44.10	60.82	90.00					
38.20				44.34	61.14	90.50					
40.10				44.58	61.46	91.40					
41.00				44.82	61.78	92.20					
42.80				45.06	62.10	93.10					
44.00				45.30	62.46	94.10					
46.80				45.58	62.82	95.70					
48.30				45.86	63.18	97.30					
48.80				46.14	63.54	99.00					
50.00				46.42	63.90	100.40					
51.10				46.70	64.40	101.50					
51.50				46.96	64.60	102.00					
52.80				47.22	65.00	102.90					
55.10				47.48	65.20	103.60					
56.80				47.74	65.60	104.10					
59.70				48.00	65.90	105.40					
60.90				48.26	66.40	106.00					
63.10				48.52	66.80	106.70					
65.40				48.78	67.10	107.50					
67.10				49.04	67.90	108.40					
68.60				49.30	68.80	109.40					
70.90				49.54	69.50	110.10					
73.40				49.78	70.70	110.90					
76.00				50.02	71.40	111.90					
78.60				50.26	72.10	112.60					
80.60				50.50	72.60	113.50					
82.60				50.68	73.30						
85.00				50.86	73.80						
86.80				51.04	74.10						
88.40				51.22	74.60						
89.60				51.40	75.10						
90.90				51.66	75.30						
92.00				51.92	75.60						
93.40				52.18	76.10						
95.00				52.44	76.20						
95.80				52.70	76.30						
96.10				52.92	76.40						
97.70				53.14	76.50						
99.80				53.36	76.60						
102.50				53.58	76.90						
104.90				53.80	77.20						
107.60				54.14	77.50						
110.40				54.48	77.80						
112.60				54.82	78.10						
115.20				55.16	78.40						
117.20				55.50	78.60						
118.90				55.78	78.80						



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	23
Weighted Average	18
Max CBR	100
Min CBR	6



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

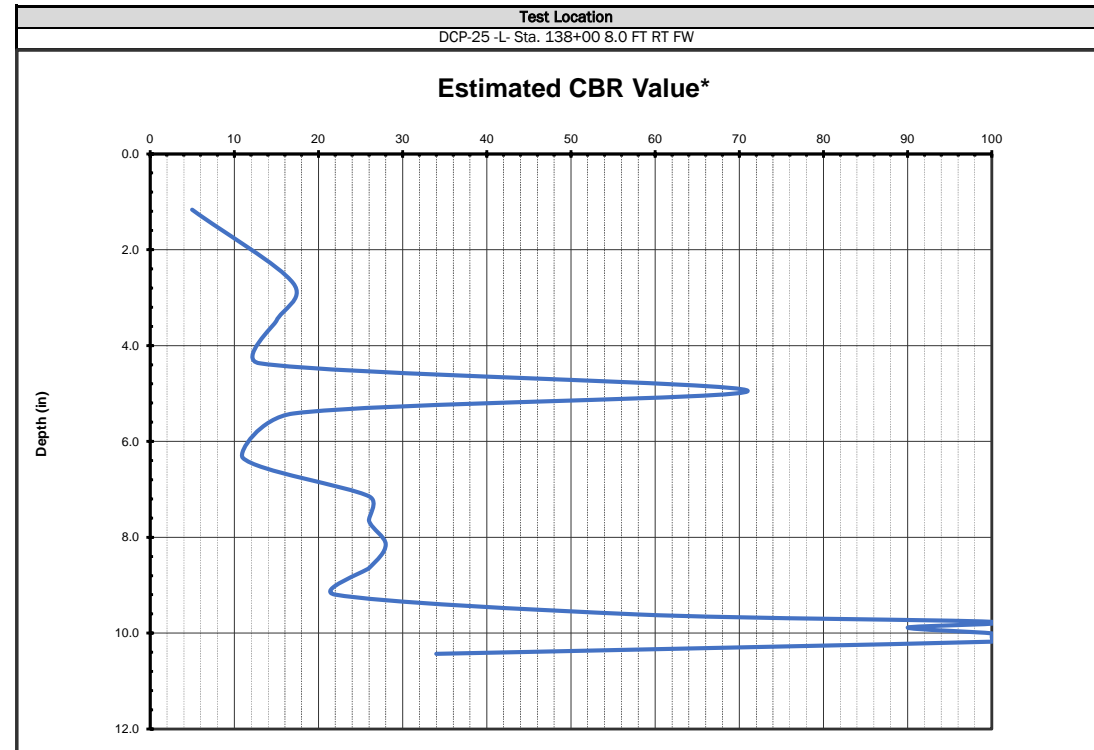
Soil Subgrade	
Average CBR	77
Weighted Average	46
Max CBR	100
Min CBR	4

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



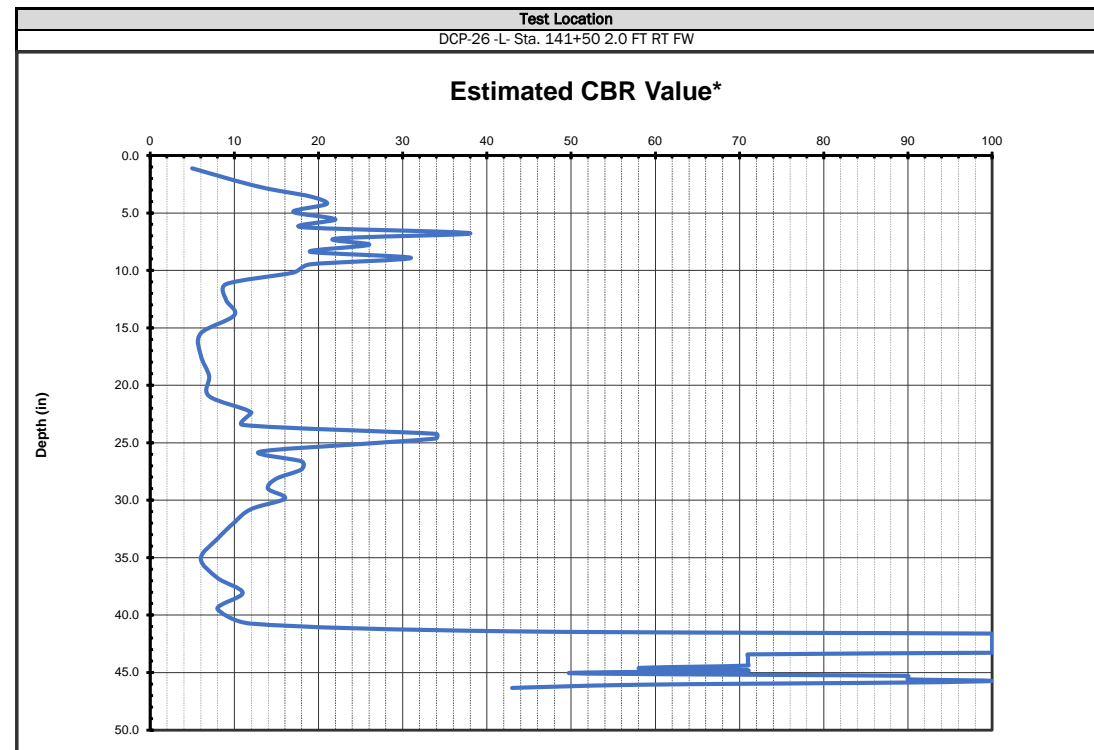


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
DCP-25 -L- Sta. 138+00 8.0 FT RT FW				11/16 to 11/22/22	DCP-26 -L- Sta. 141+50 2.0 FT RT FW	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-2-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-2-4)	5.0 ft Fill
5.90				5.70	109.01		
7.80				8.20	109.12		
9.90				9.90	109.23		
12.30				11.50	109.34		
12.80				13.40	109.45		
14.70				14.90	109.56		
17.50				16.70	109.67		
18.80				17.60	109.78		
20.10				19.10	109.89		
21.30				20.40	110.00		
22.60				22.10	110.50		
24.10				23.20	111.00		
24.70				24.90	111.50		
24.90				26.80	112.00		
25.30				30.10	112.50		
25.50				33.70	113.00		
25.60				36.90	113.60		
25.70				41.70	114.10		
26.00				46.60	114.80		
27.00				50.90	115.20		
Terminated				55.50	115.60		
Due to				58.10	116.00		
Utility				61.00	116.30		
				62.00	116.70		
				63.00	117.30		
				64.30	118.10		
				66.70			
				68.50			
				70.30			
				72.50			
				74.80			
				76.80			
				79.50			
				82.70			
				86.70			
				91.50			
				95.20			
				98.20			
				102.20			
				104.80			
				105.60			
				105.67			
				105.75			
				105.82			
				105.89			
				105.97			
				106.04			
				106.11			
				106.19			
				106.26			
				106.33			
				106.41			
				106.48			
				106.55			
				106.63			
				106.70			
				106.92			
				107.14			
				107.36			
				107.58			
				107.80			
				108.02			
				108.24			
				108.46			
				108.68			
				108.90			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	48
Weighted Average	22
Max CBR	100
Min CBR	5



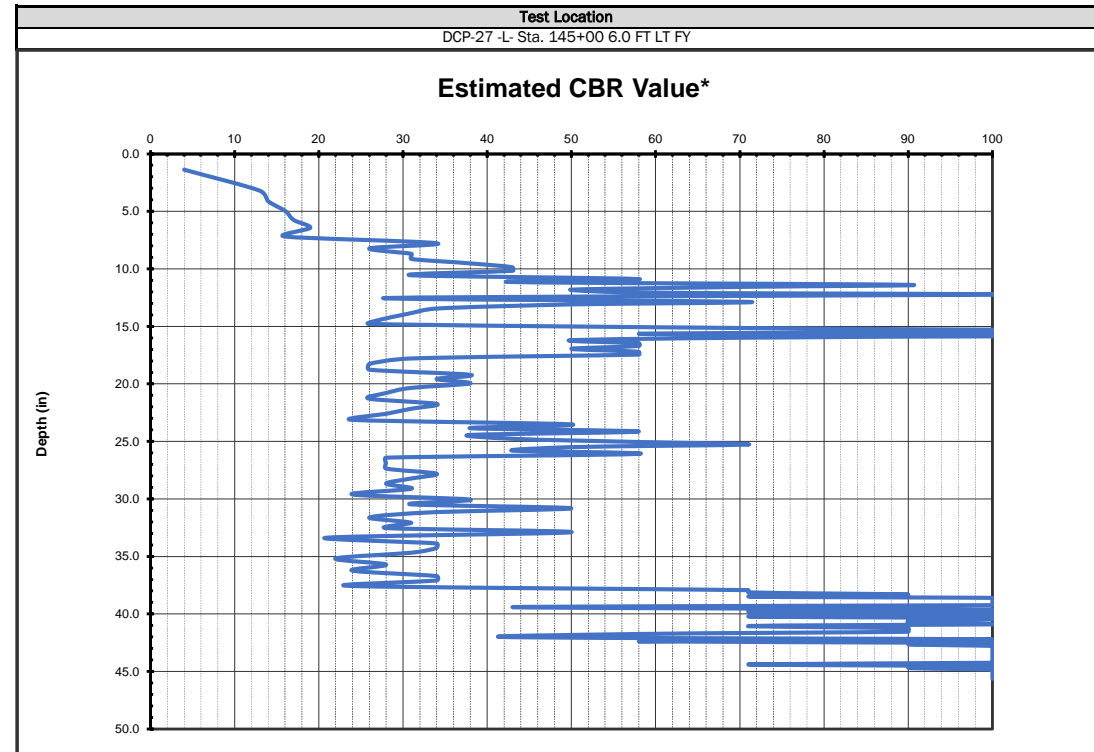
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	58
Weighted Average	20
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

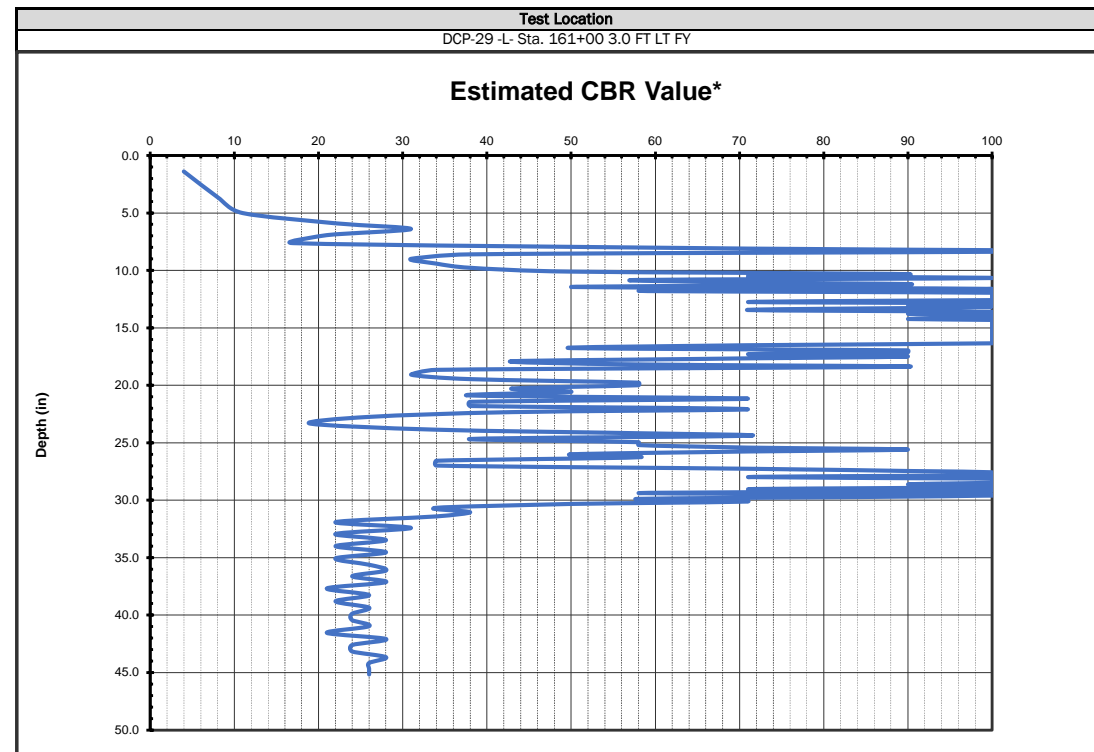


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run
DCP-27 -L- Sta. 145+00 6.0 FT LT FY				11/16 to 11/22/22	DCP-29 -L- Sta. 161+00 3.0 FT LT FY				11/16 to 11/22/22
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		SG (A-2-4)	5.0 ft Fill	DCP	Cumulative cm per blow		SG (A-1-b)	5.0 ft Fill
6.90	66.50	109.70			7.10	41.70	85.60		
9.30	67.70	109.92			11.20	42.20	87.10		
11.60	68.90	110.14			14.20	42.90	88.30		
13.60	70.10	110.36			15.70	43.30	89.80		
15.50	71.10	110.58			16.80	43.70	91.10		
17.20	72.20	110.80			18.40	44.20	92.30		
19.20	73.40	111.14			20.30	44.60	93.70		
20.20	74.50	111.48			20.80	45.10	94.90		
21.50	75.90	111.82			21.10	45.90	96.50		
22.60	76.80	112.16			21.40	46.50	97.80		
23.70	77.90	112.50			22.30	46.90	99.30		
24.60	78.60	113.00			23.40	47.90	100.60		
25.40	79.60	113.30			24.40	49.00	102.00		
26.20	80.90	113.70			25.30	49.90	103.40		
27.30	82.00	114.00			26.00	50.50	104.70		
27.90	83.20	114.14			26.40	51.10	106.30		
28.70	83.90	114.28			26.90	51.90	107.50		
29.10	85.50	114.42			27.20	52.60	108.90		
29.60	86.50	114.56			27.80	53.50	110.30		
30.30	87.50	114.70			28.30	54.00	111.50		
30.90	88.60	114.96			28.70	54.90	112.80		
31.20	90.10	115.22			29.40	55.80	114.10		
32.40	91.30	115.48			29.60	56.30	115.40		
32.90	92.70	115.74			30.20	57.10			
33.60	93.70	116.00			30.40	58.40			
34.60	94.70				30.60	60.10			
35.70	96.10				30.90	61.10			
36.90	96.60				31.10	61.70			
38.20	97.10				31.20	62.20			
38.70	97.50				31.40	63.10			
38.90	98.00				31.60	63.70			
39.10	98.10				31.80	64.30			
39.40	98.40				32.10	64.80			
40.00	98.60				32.60	65.20			
40.10	98.80				32.80	65.70			
40.20	98.98				33.20	66.40			
40.30	99.16				33.50	67.00			
40.80	99.34				33.90	68.00			
41.50	99.52				34.40	69.00			
42.10	99.70				34.60	69.50			
42.70	100.50				34.80	69.90			
43.40	100.80				35.20	70.20			
44.00	101.30				35.40	70.50			
44.60	101.60				35.70	70.80			
45.70	101.80				35.90	71.30			
47.00	101.90				36.30	71.60			
48.30	102.40				36.40	71.90			
49.20	102.60				36.60	72.20			
50.20	102.90				36.80	72.50			
51.10	103.30				37.00	72.90			
52.20	103.70				37.20	73.20			
53.40	104.00				37.40	73.50			
54.70	104.50				37.60	74.00			
55.70	104.90				37.80	74.30			
56.80	105.30				38.00	74.90			
58.00	105.70				38.20	75.20			
59.40	106.30				38.40	75.60			
60.10	107.10				38.73	76.20			
61.00	107.30				39.06	76.70			
61.60	107.90				39.39	77.40			
62.50	108.10				39.72	78.40			
63.30	108.50				40.05	79.30			
63.90	108.74				40.38	80.30			
64.40	108.98				40.71	81.80			
65.10	109.22				41.04	82.90			
65.90	109.46				41.37	84.40			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	63
Weighted Average	41
Max CBR	100
Min CBR	4



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

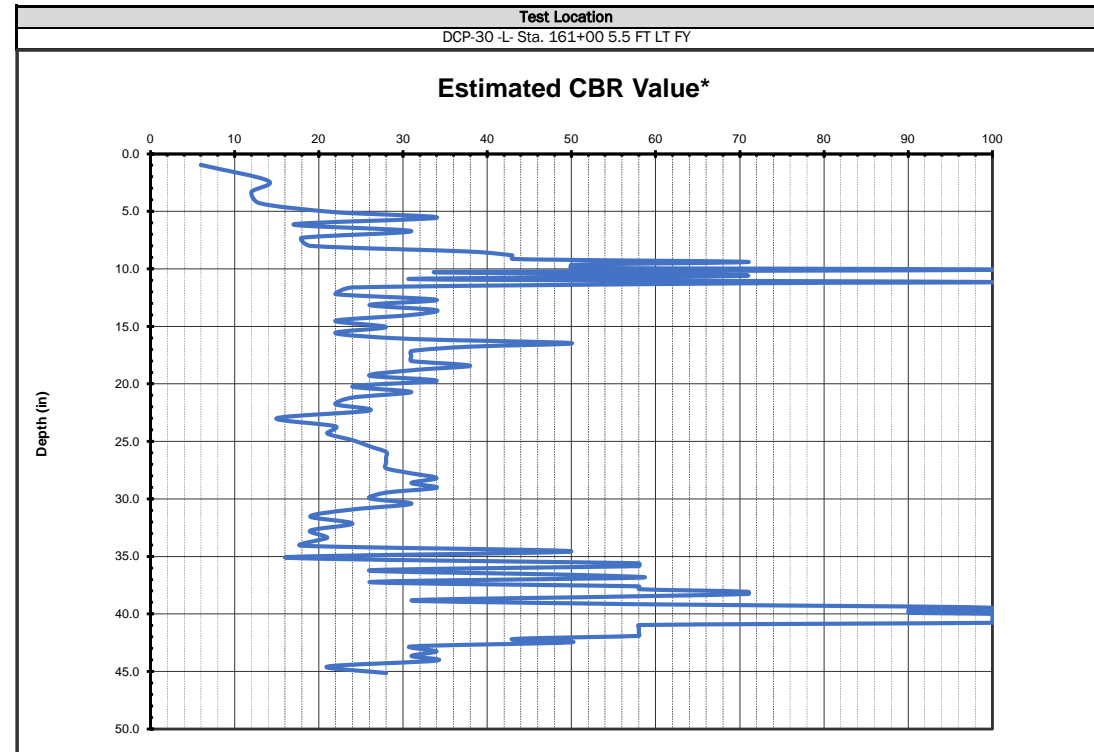
Soil Subgrade	
Average CBR	65
Weighted Average	42
Max CBR	100
Min CBR	4

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



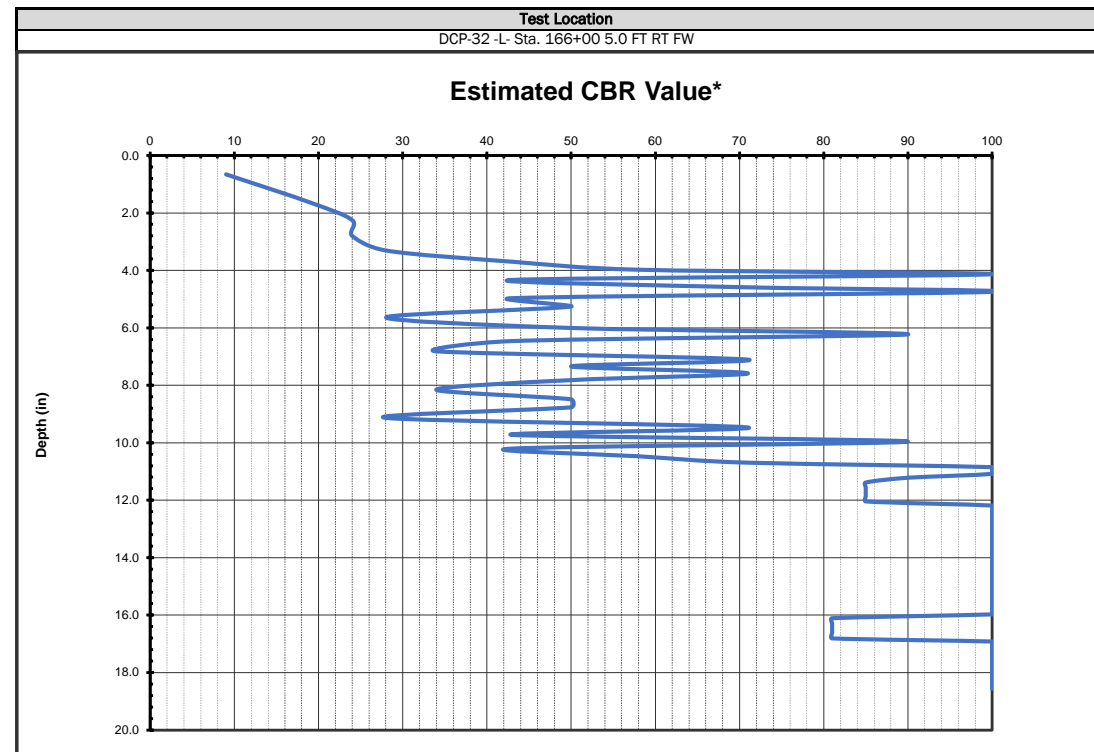


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-30 -L- Sta. 161+00 5.5 FT LT FY				11/16 to 11/22/22	DCP-32 -L- Sta. 166+00 5.0 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-1-b)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-2-4)	2.0 ft Fill
4.80	85.60			3.30	37.70		
7.10	87.40			5.00	37.86		
9.70	88.10			6.40	38.02		
12.10	90.10			7.80	38.18		
13.60	90.70			9.00	38.34		
14.60	91.30			9.80	38.50		
16.50	92.60			10.40	38.66		
17.60	93.30			10.60	38.82		
19.40	93.90			11.40	38.98		
21.10	95.20			11.90	39.14		
22.00	95.80			12.20	39.30		
22.80	96.40			13.00	39.58		
23.60	96.90			13.70	39.86		
24.10	97.40			14.90	40.14		
24.80	98.00			15.60	40.42		
25.50	99.10			16.00	40.70		
25.60	99.70			16.80	41.14		
26.60	100.10			17.80	41.58		
27.10	100.30			18.30	42.02		
28.20	100.60			19.00	42.46		
28.30	101.00			19.50	42.90		
28.80	101.10			20.20	43.04		
30.20	101.50			21.20	43.18		
31.70	101.60			21.90	43.32		
32.70	101.70			22.60	43.46		
34.00	101.90			23.80	43.60		
35.00	102.00			24.30	43.74		
36.10	102.20			25.10	43.88		
37.60	102.50			25.50	44.02		
38.80	102.80			26.30	44.16		
40.30	103.10			26.90	44.30		
41.40	103.40			27.40	44.46		
42.10	103.70			27.70	44.62		
43.00	104.30			27.80	44.78		
44.10	104.90			28.00	44.94		
45.20	105.50			28.30	45.10		
46.30	106.10			28.70	45.26		
47.20	106.70			29.12	45.42		
48.30	107.50			29.54	45.58		
49.60	108.20			29.96	45.74		
50.60	109.30			30.38	45.90		
52.00	110.30			30.80	46.03		
53.10	111.40			31.12	46.16		
54.50	112.40			31.44	46.29		
56.00	114.00			31.76	46.42		
57.30	115.20			32.08	46.55		
59.40				32.40	46.68		
60.90				32.74	46.81		
62.50				33.08	46.94		
63.90				33.42	47.07		
65.20				33.76	47.20		
66.40				34.10	DCP REF		
67.60				34.32	80/4.0'		
68.80				34.54			
70.00				34.76			
71.10				34.98			
72.10				35.20			
73.20				35.46			
74.20				35.72			
75.40				35.98			
76.70				36.24			
77.80				36.50			
79.20				36.74			
80.90				36.98			
82.30				37.22			
84.00				37.46			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	45
Weighted Average	31
Max CBR	100
Min CBR	6



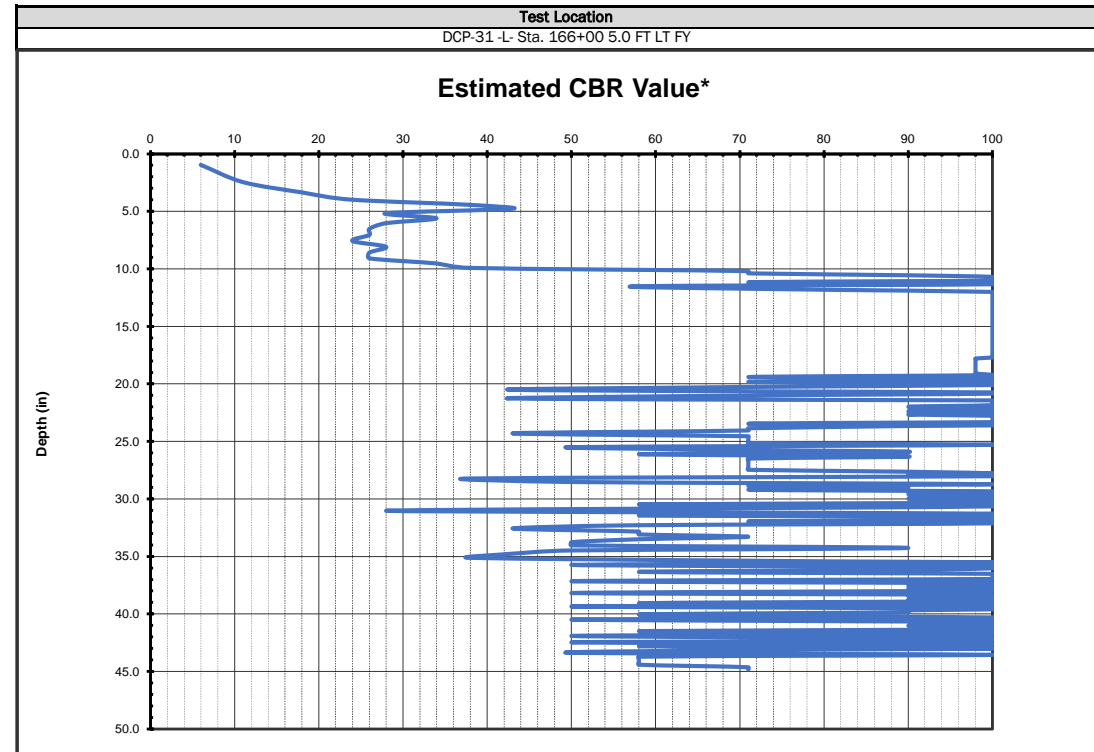
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	85
Weighted Average	63
Max CBR	100
Min CBR	9

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

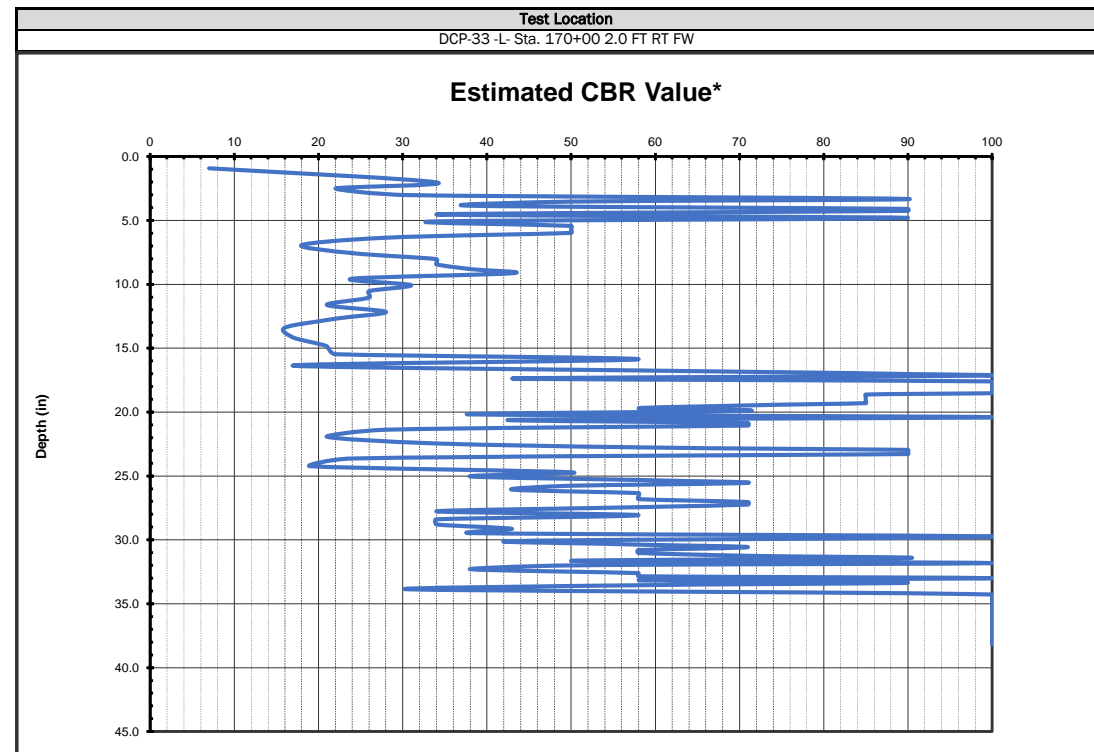


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
				Date Run	Test Location	Date Run			
				11/16 to 11/22/22	DCP-33 -L- Sta. 170+00 2.0 FT RT FW	11/16 to 11/22/22			
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		SG (A-2-4)	5.0 ft Fill	DCP	Cumulative cm per blow		SG	5.0 ft Fill
4.80	35.72	43.29	62.60	92.60	4.60	58.50	91.98		
7.60	35.84	43.39	63.10	92.80	5.60	58.90	92.24		
9.40	35.96	43.48	63.60	93.10	7.10	59.30	92.50		
10.80	36.08	43.58	64.10	93.40	8.20	60.70	92.66		
11.70	36.20	43.67	64.40	93.70	8.60	62.40	92.82		
12.50	36.33	43.77	65.10	94.00	9.30	63.10	92.98		
13.70	36.46	43.86	65.60	94.70	10.20	64.00	93.14		
14.70	36.59	43.96	66.00	94.90	10.60	64.60	93.30		
15.90	36.72	44.05	66.60	95.20	11.00	65.10	93.56		
17.20	36.85	44.15	67.00	95.60	12.00	65.80	93.82		
18.50	36.98	44.24	67.50	95.80	12.40	66.60	94.08		
19.90	37.11	44.34	68.00	96.20	13.40	67.20	94.34		
21.10	37.24	44.43	68.50	96.30	14.10	67.80	94.60		
22.40	37.37	44.53	69.00	96.60	14.80	68.40	94.94		
23.70	37.50	44.62	69.50	97.30	15.50	68.90	95.28		
24.70	37.63	44.72	70.00	97.50	16.70	69.40	95.62		
25.60	37.76	44.81	70.40	97.90	18.50	70.00	95.96		
26.10	37.89	44.91	70.70	98.20	19.90	71.00	96.30		
26.60	38.02	45.00	71.10	98.60	20.90	71.60	96.37		
27.00	38.15	45.37	71.20	98.90	21.90	72.60	96.44		
27.22	38.28	45.74	72.10	99.50	22.80	73.60	96.51		
27.44	38.41	46.11	72.80	99.60	23.60	74.40	96.58		
27.66	38.54	46.48	73.00	100.30	25.00	75.30	96.65		
27.88	38.67	46.85	73.50	100.60	26.10	75.60	96.72		
28.10	38.80	47.22	73.90	101.00	27.40	76.00	96.79		
28.60	38.93	47.59	74.40	101.40	28.70	76.80	96.86		
28.90	39.05	47.96	74.60	102.00	30.30	77.40	96.93		
29.50	39.18	48.33	74.90	102.40	31.50	77.90	97.00		
30.00	39.30	48.70	75.30	102.50	33.00	78.50	DCP REF		
30.40	39.43	49.00	75.40	103.20	35.00	79.10	90/4.0*		
30.51	39.55	49.50	75.70	103.50	36.90	79.60			
30.62	39.68	49.80	75.90	103.70	38.50	80.00			
30.73	39.80	50.10	76.30	104.00	40.00	80.70			
30.84	39.93	50.60	76.60	104.40	40.60	80.90			
30.95	40.05	50.90	76.90	104.70	42.50	81.60			
31.06	40.18	51.20	77.00	104.90	43.00	82.50			
31.17	40.30	51.70	77.10	105.10	43.40	83.10			
31.28	40.43	52.50	77.70	105.70	43.70	83.70			
31.39	40.55	52.80	77.80	105.90	44.50	83.90			
31.50	40.68	53.10	78.20	106.10	44.84	84.50			
31.71	40.80	53.60	79.40	106.80	45.18	84.90			
31.92	40.93	54.40	79.50	107.10	45.52	85.50			
32.13	41.05	54.50	80.10	107.40	45.86	86.60			
32.34	41.18	54.80	80.30	107.50	46.20	87.00			
32.55	41.30	55.10	80.70	108.20	46.38	87.12			
32.75	41.39	55.40	80.90	108.40	46.56	87.24			
32.96	41.48	55.60	81.40	109.00	46.74	87.36			
33.17	41.57	56.00	81.70	109.30	46.92	87.48			
33.38	41.66	56.30	82.30	109.80	47.10	87.60			
33.59	41.75	56.50	83.10	110.50	47.52	87.79			
33.80	41.84	56.60	83.70	110.70	47.94	87.98			
33.92	41.93	57.00	84.30	111.30	48.36	88.17			
34.04	42.02	57.30	84.80	111.90	48.78	88.36			
34.16	42.11	57.70	85.40	112.50	49.20	88.55			
34.28	42.20	57.90	86.10	113.10	49.70	88.74			
34.40	42.29	58.20	86.80	113.60	50.30	88.93			
34.52	42.38	58.50	87.20	114.10	50.80	89.12			
34.64	42.47	58.80	87.90		51.70	89.31			
34.76	42.56	59.10	88.70		51.90	89.50			
34.88	42.65	59.30	89.60		52.70	89.84			
35.00	42.74	59.80	90.10		53.20	90.18			
35.12	42.83	59.90	90.40		53.70	90.52			
35.24	42.92	60.30	91.10		54.90	90.86			
35.36	43.01	60.80	91.40		56.50	91.20			
35.48	43.10	61.30	91.60		57.50	91.46			
35.60	43.20	62.10	92.00		58.10	91.72			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	87
Weighted Average	66
Max CBR	100
Min CBR	6



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

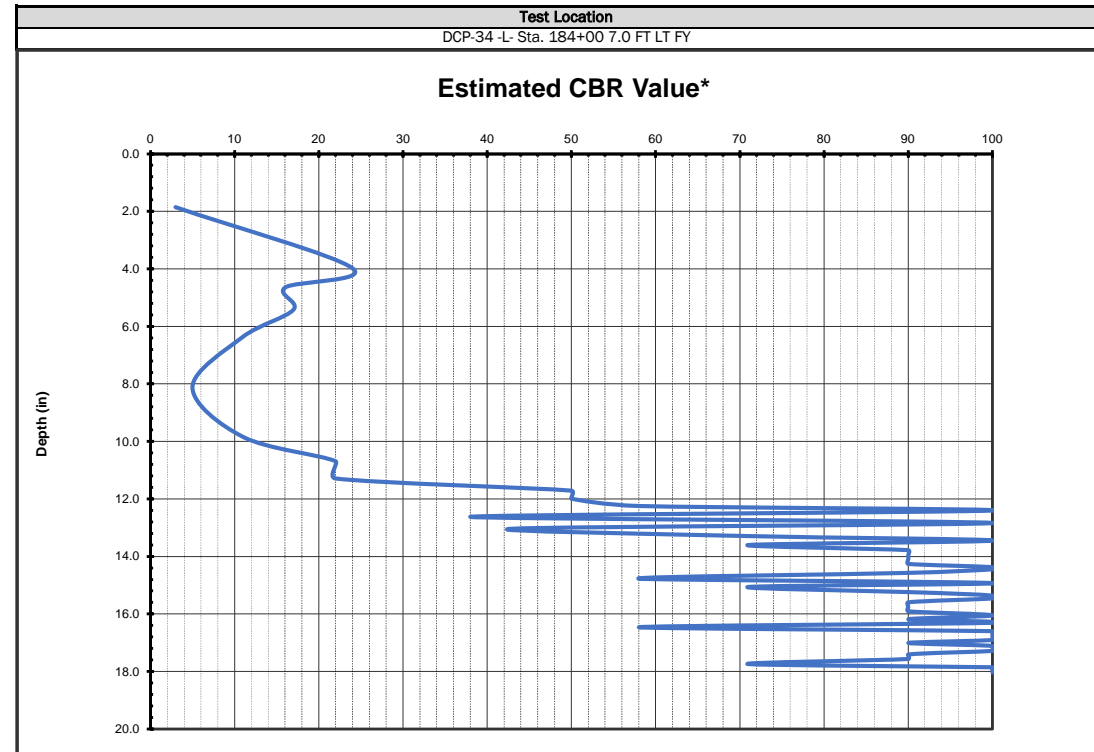
Soil Subgrade	
Average CBR	71
Weighted Average	48
Max CBR	100
Min CBR	7

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



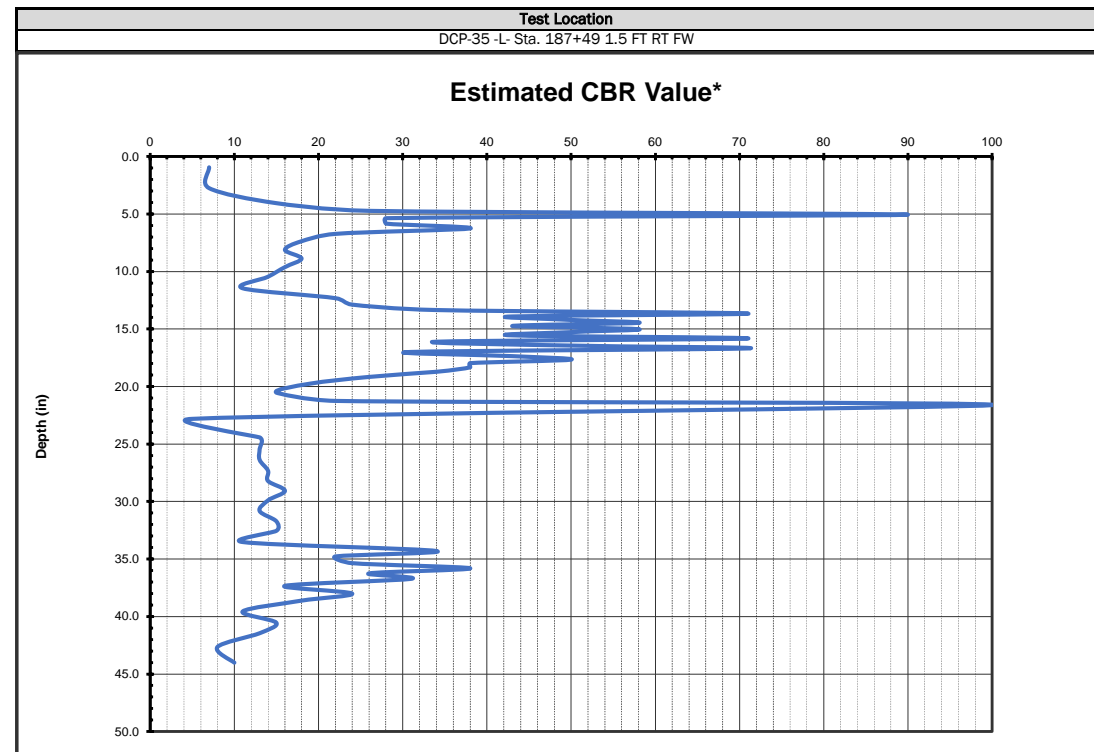


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-34 -L- Sta. 184+00 7.0 FT LT FY				11/16 to 11/22/22	DCP-35 -L- Sta. 187+49 1.5 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG	5.0 ft Fill
9.40	45.52			4.70	113.30		
10.80	45.53			9.20			
12.80	45.53			11.30			
14.70	45.54			12.60			
17.60	45.55			13.00			
23.60	45.56			14.20			
26.40	45.56			15.40			
27.90	45.57			16.30			
29.40	45.58			17.80			
30.10	45.59			19.60			
30.80	45.60			21.60			
31.40	45.60			23.40			
31.60	45.61			25.40			
32.50	45.62			27.70			
32.70	45.63			30.50			
33.50	45.64			32.00			
34.00	45.64			33.40			
34.30	45.65			34.40			
34.80	45.66			34.90			
35.20	45.67			35.70			
35.60	45.67			36.40			
36.00	45.68			37.00			
36.40	45.69			37.80			
36.60	45.70			38.40			
36.80	45.71			39.10			
37.20	45.71			39.90			
37.80	45.72			40.40			
38.00	45.73			41.40			
38.50	45.74			42.10			
38.90	45.75			42.60			
39.10	45.75			43.70			
39.40	45.76			44.50			
39.80	45.77			45.20			
40.20	45.78			46.10			
40.60	45.78			47.00			
40.90	45.79			48.00			
41.30	45.80			49.30			
41.50	DCP REP			51.00			
42.10	90/0.8*			53.20			
42.20				54.70			
42.40				55.00			
42.70				60.80			
42.90				63.30			
43.00				65.80			
43.40				68.20			
43.50				70.50			
43.80				72.80			
44.00				74.80			
44.40				77.10			
44.80				79.50			
45.30				81.60			
45.40				83.70			
45.41				86.60			
45.42				87.60			
45.42				89.10			
45.43				90.50			
45.44				91.40			
45.45				92.70			
45.45				93.80			
45.46				95.80			
45.47				97.20			
45.48				99.00			
45.49				101.90			
45.49				104.00			
45.50				106.50			
45.51				110.20			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	87
Weighted Average	34
Max CBR	100
Min CBR	3



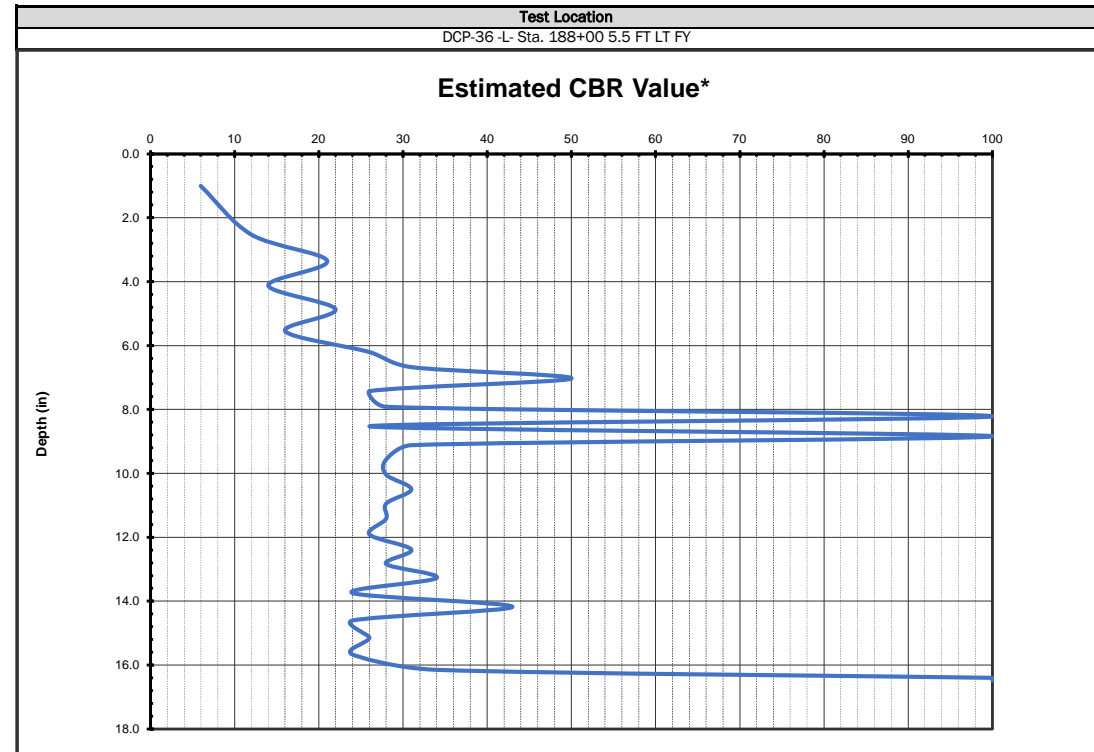
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	29
Weighted Average	20
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

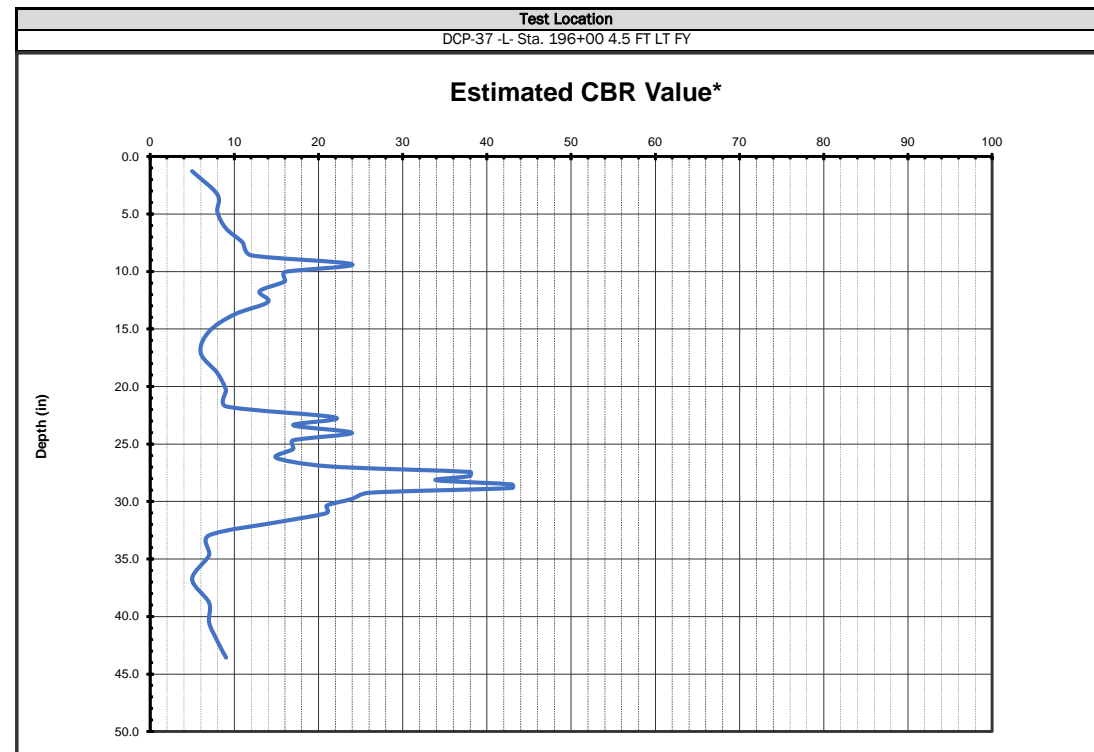


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
				11/16 to 11/22/22	DCP-37 -L- Sta. 196+00 4.5 FT LT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill
5.10				6.50			
7.70				10.30			
9.30				14.20			
11.60				17.50			
13.10				20.50			
15.10				23.10			
16.40				24.50			
17.50				26.50			
18.20				28.50			
19.50				31.00			
20.70				33.30			
21.00				36.40			
22.30				40.90			
22.60				45.80			
23.70				49.90			
24.90				53.40			
26.10				56.90			
27.20				58.40			
28.40				60.30			
29.60				61.70			
30.90				63.60			
32.00				65.50			
33.20				67.60			
34.20				69.20			
35.60				70.10			
36.40				71.00			
37.80				72.00			
39.10				72.80			
40.50				73.60			
41.50				74.90			
41.80				76.30			
41.90				77.90			
DCP REF				79.50			
80/90.0*				81.50			
				85.80			
				90.20			
				96.40			
				100.70			
				105.10			
				109.00			
				112.30			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	36
Weighted Average	25
Max CBR	100
Min CBR	6



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

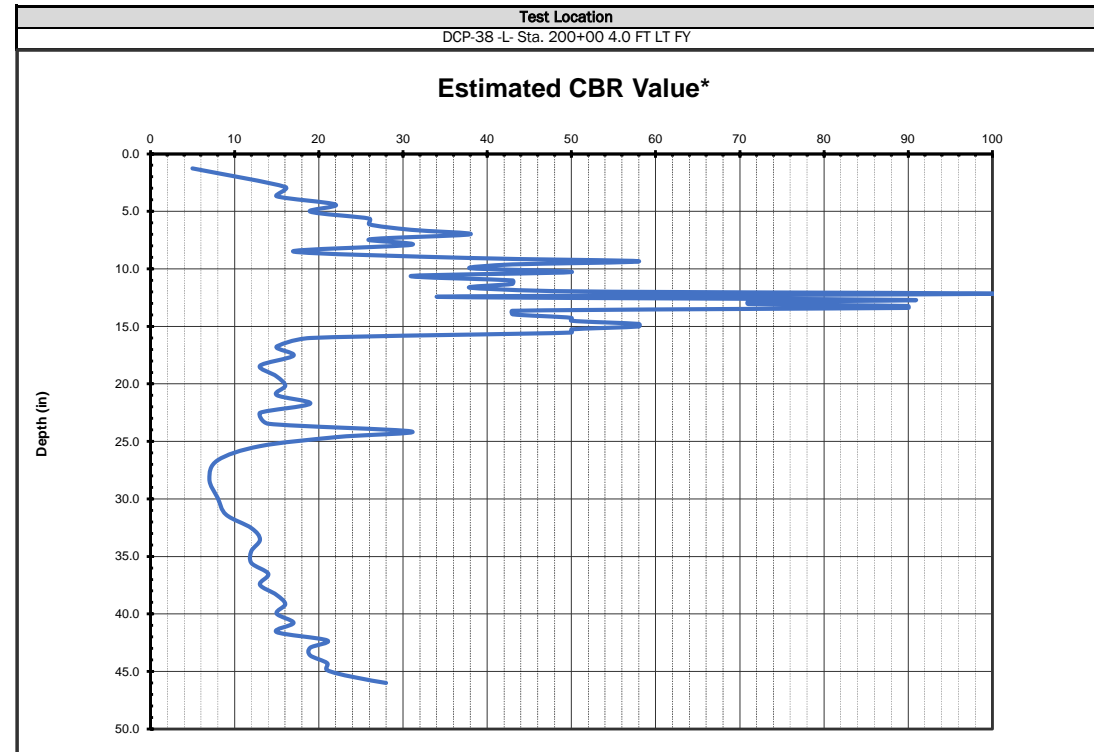
Soil Subgrade	
Average CBR	16
Weighted Average	12
Max CBR	43
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



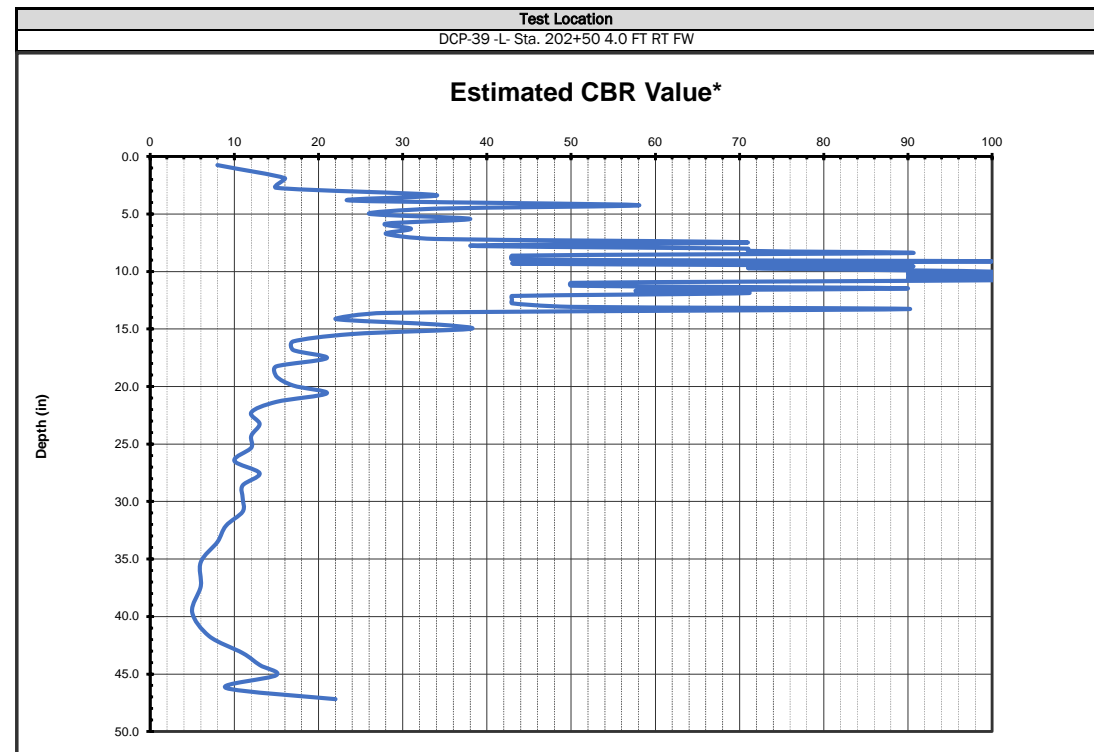


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-38 -L- Sta. 200+00 4.0 FT LT FY				11/16 to 11/22/22	DCP-39 -L- Sta. 202+50 4.0 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	3.0 ft Fill
6.30	109.90			3.80	87.00		
8.30	111.60			5.80	92.20		
10.40	113.20			8.00	97.60		
11.90	114.80			9.00	103.60		
13.60	116.20			10.40	108.20		
14.90	117.40			11.00	111.10		
16.20				12.00	113.50		
17.30				13.30	115.60		
18.20				14.20	119.10		
19.50				15.40	120.60		
20.60				16.50			
22.50				17.70			
23.40				18.70			
24.00				19.20			
24.80				20.10			
25.70				20.60			
26.40				21.10			
27.50				21.50			
28.30				22.30			
29.10				23.10			
30.00				23.20			
30.70				24.00			
31.00				24.40			
32.00				24.90			
32.40				25.30			
32.90				25.50			
33.40				25.60			
33.80				26.00			
34.20				26.20			
35.00				26.60			
35.80				26.80			
36.50				27.20			
37.20				27.50			
37.80				28.20			
38.40				28.90			
39.10				29.30			
39.80				29.90			
41.50				30.40			
43.60				31.20			
45.50				32.00			
48.00				32.80			
50.20				33.50			
52.20				33.90			
54.30				35.10			
56.00				36.60			
58.40				37.60			
60.70				38.50			
61.80				39.90			
63.30				41.80			
65.70				43.70			
69.60				45.30			
74.00				47.40			
78.00				49.60			
81.30				51.50			
83.90				53.10			
86.40				55.20			
89.00				57.80			
91.60				60.30			
93.90				63.00			
96.30				65.60			
98.40				68.70			
100.40				71.20			
102.60				74.00			
104.50				76.90			
106.60				79.90			
108.20				83.20			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	31
Weighted Average	20
Max CBR	100
Min CBR	5



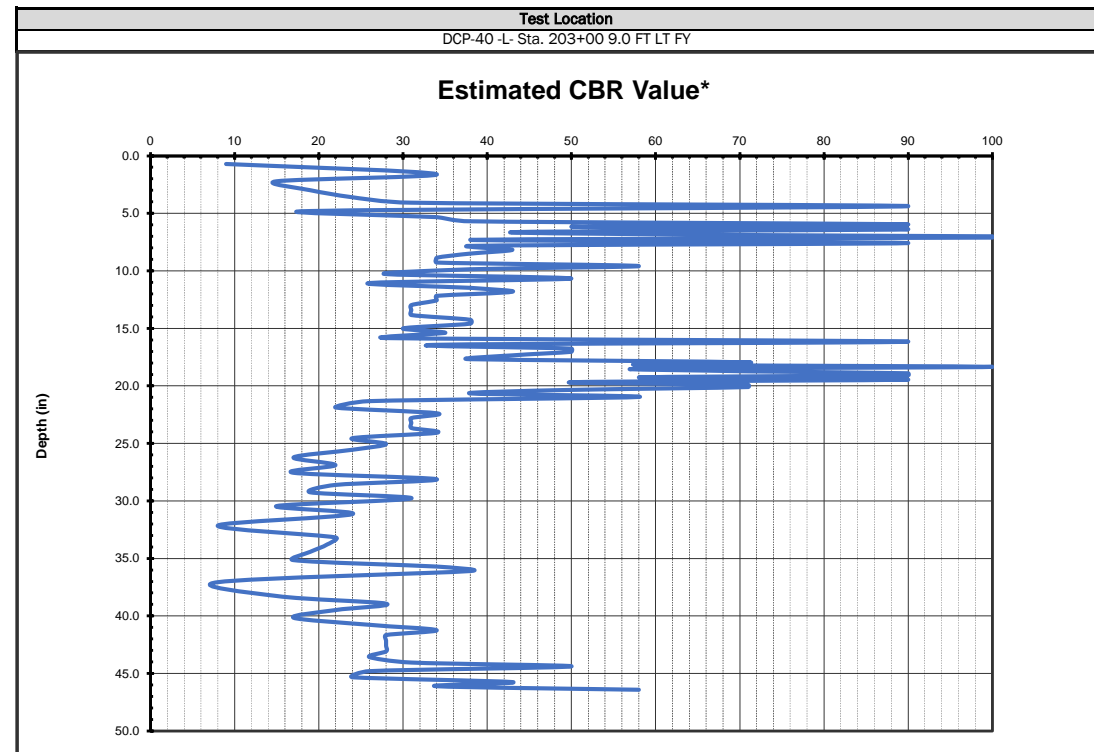
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	40
Weighted Average	20
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

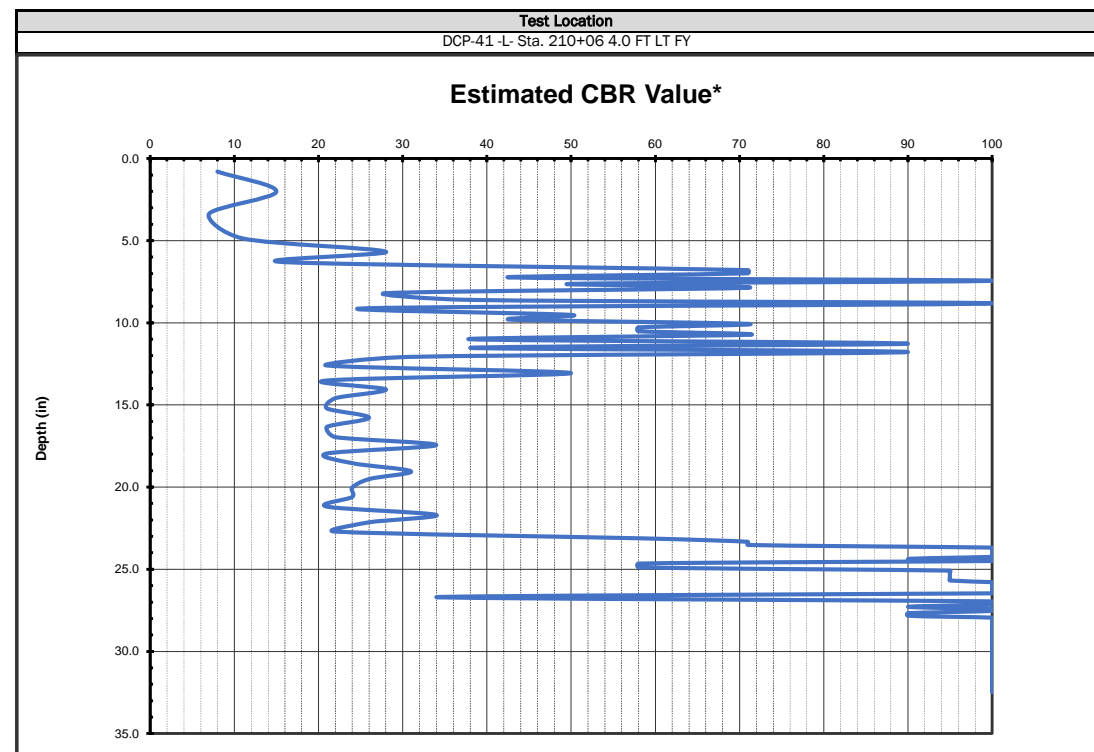


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location	Date Run	
DCP-40 -L- Sta. 203+00 9.0 FT LT FY				11/16 to 11/22/22	DCP-41 -L- Sta. 210+06 4.0 FT LT FY	11/16 to 11/22/22	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	3.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	3.0 ft Fill
3.50	58.40			4.00	65.78	81.22	
4.50	59.50			6.20	65.97	81.38	
6.70	60.60			10.90	66.16	81.54	
8.40	61.60			13.80	66.35	81.70	
9.80	63.00			15.00	66.54	81.88	
10.90	64.20			17.00	66.73	82.06	
11.30	65.60			17.50	66.92	82.24	
13.00	67.50			18.00	67.11	82.42	
14.00	69.00			18.80	67.30	82.60	
14.90	70.90			19.00	68.30	DCP REF	
15.30	71.90			19.70	68.60	90/4.0*	
16.00	73.40			20.20	68.80		
16.40	75.10			21.40	69.10		
17.20	76.20			22.30	69.50		
17.70	78.40			22.50	69.80		
17.80	79.80			23.80	70.10		
17.90	83.50			24.50	70.50		
18.10	85.00			25.30	70.90		
19.00	86.60			25.80	71.00		
19.40	88.30			26.40	71.10		
20.30	90.20			27.00	71.30		
21.10	91.20			27.50	71.60		
22.00	92.10			28.40	71.70		
23.00	96.10			28.80	72.00		
24.00	98.30			29.70	72.20		
24.60	99.50			30.10	72.48		
25.50	101.00			31.20	72.76		
26.70	102.90			32.80	73.04		
27.40	104.20			33.50	73.32		
28.70	105.20			35.10	73.60		
29.60	106.40			36.30	73.82		
30.40	107.60			37.80	74.04		
31.40	108.80			39.40	74.26		
32.40	110.00			40.70	74.48		
33.50	111.30			42.30	74.70		
34.60	112.40			43.80	74.82		
35.70	113.10			44.80	74.94		
36.60	114.40			46.40	75.06		
37.50	115.80			47.80	75.18		
38.63	116.60			48.90	75.30		
39.60	117.60			50.20	75.52		
40.80	118.20			51.60	75.74		
41.20				53.00	75.96		
42.20				54.60	76.18		
42.90				55.60	76.40		
43.60				56.90	76.60		
44.40				58.40	76.80		
45.30				59.00	77.00		
45.80				59.50	77.20		
46.40				60.00	77.40		
46.70				60.28	77.62		
47.30				60.56	77.84		
47.80				60.84	78.06		
48.20				61.12	78.28		
48.60				61.40	78.50		
49.20				61.70	78.70		
49.60				62.10	78.90		
50.30				62.30	79.10		
50.80				62.90	79.30		
51.30				63.50	79.50		
52.00				63.88	79.78		
52.90				64.26	80.06		
53.50				64.64	80.34		
54.80				65.02	80.62		
56.30				65.40	80.90		
57.30				65.59	81.06		



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	41
Weighted Average	31
Max CBR	100
Min CBR	8



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

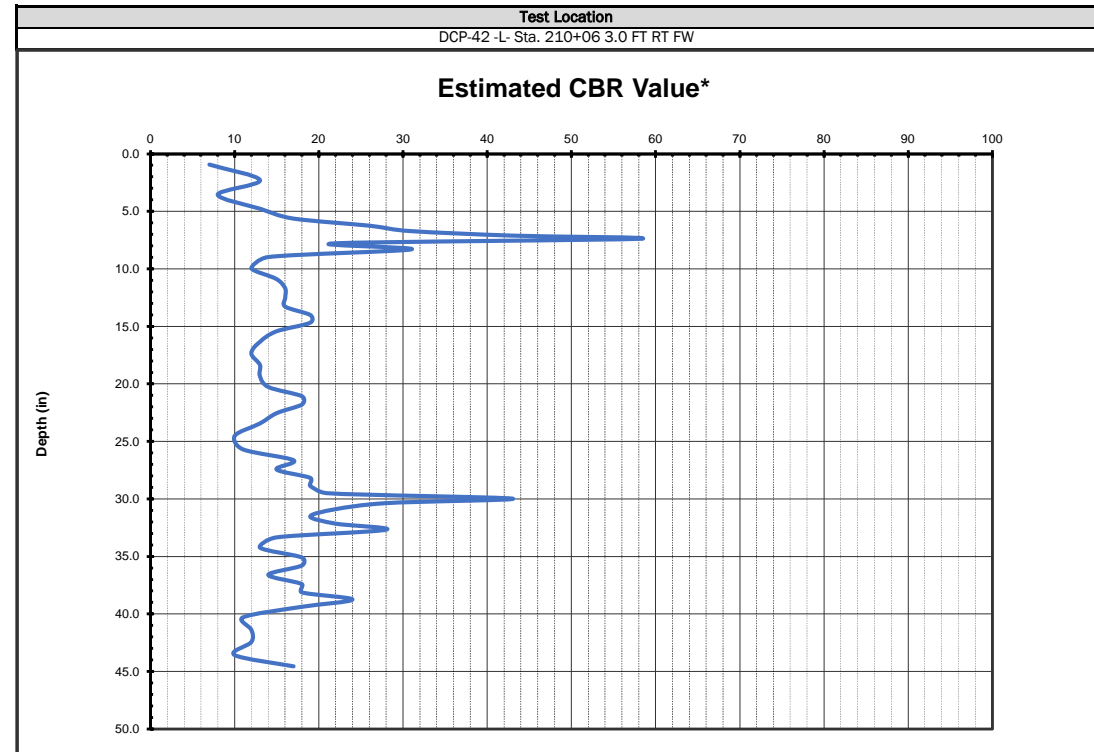
Soil Subgrade	
Average CBR	77
Weighted Average	46
Max CBR	100
Min CBR	7

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



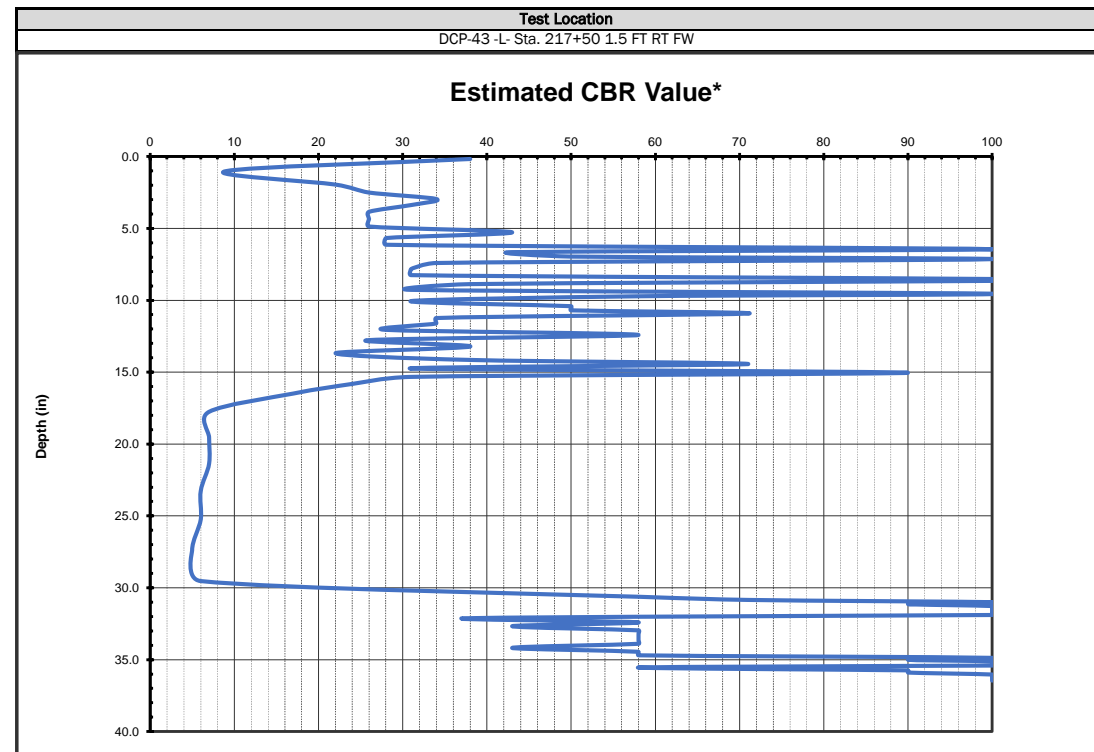


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
DCP-42 -L- Sta. 210+06 3.0 FT RT FW				11/16 to 11/22/22	DCP-43 -L- Sta. 217+50 1.5 FT RT FW				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	3.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	2.0 ft Fill				
4.60				0.90	83.40	92.54					
7.00				4.20	84.00	92.56					
10.90				5.70	84.60	92.58					
13.30				7.00	85.20	92.60					
15.20				8.00	85.80	DCP REF					
16.50				9.10	86.40	90/0.8*					
17.60				10.40	87.20						
18.40				11.70	87.80						
19.00				13.00	88.40						
20.50				13.80	88.70						
21.60				15.00	89.10						
23.90				16.20	89.28						
26.50				16.50	89.46						
28.70				17.30	89.64						
30.70				18.00	89.82						
32.70				18.30	90.00						
34.70				19.30	90.60						
36.40				20.40	91.00						
38.10				21.50	91.40						
40.20				21.80	91.60						
42.70				22.10	91.62						
45.30				23.00	91.64						
47.80				24.10	91.66						
50.30				24.40	91.68						
52.60				25.00	91.70						
54.40				26.10	91.72						
56.20				26.80	91.74						
58.30				27.50	91.76						
60.70				28.00	91.78						
63.80				29.00	91.80						
66.70				30.00	91.82						
68.60				31.20	91.84						
70.70				31.80	91.86						
72.40				33.10	91.88						
74.10				34.00	91.90						
75.70				35.50	91.92						
76.50				36.40	91.94						
77.70				36.90	91.96						
79.20				38.00	91.98						
80.90				38.40	92.00						
82.40				39.50	92.02						
83.60				40.90	92.04						
85.70				42.80	92.06						
88.20				47.40	92.08						
90.00				51.90	92.10						
91.80				56.60	92.12						
94.10				61.50	92.14						
95.90				66.70	92.16						
97.70				72.50	92.18						
99.10				77.50	92.20						
100.90				78.10	92.22						
103.70				78.60	92.24						
106.40				78.90	92.26						
109.10				79.30	92.28						
112.20				79.48	92.30						
114.10				79.66	92.32						
				79.84	92.34						
				80.02	92.36						
				80.20	92.38						
				80.38	92.40						
				80.56	92.42						
				80.74	92.44						
				80.92	92.46						
				81.10	92.48						
				82.00	92.50						
				82.60	92.52						



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	18
Weighted Average	16
Max CBR	58
Min CBR	7



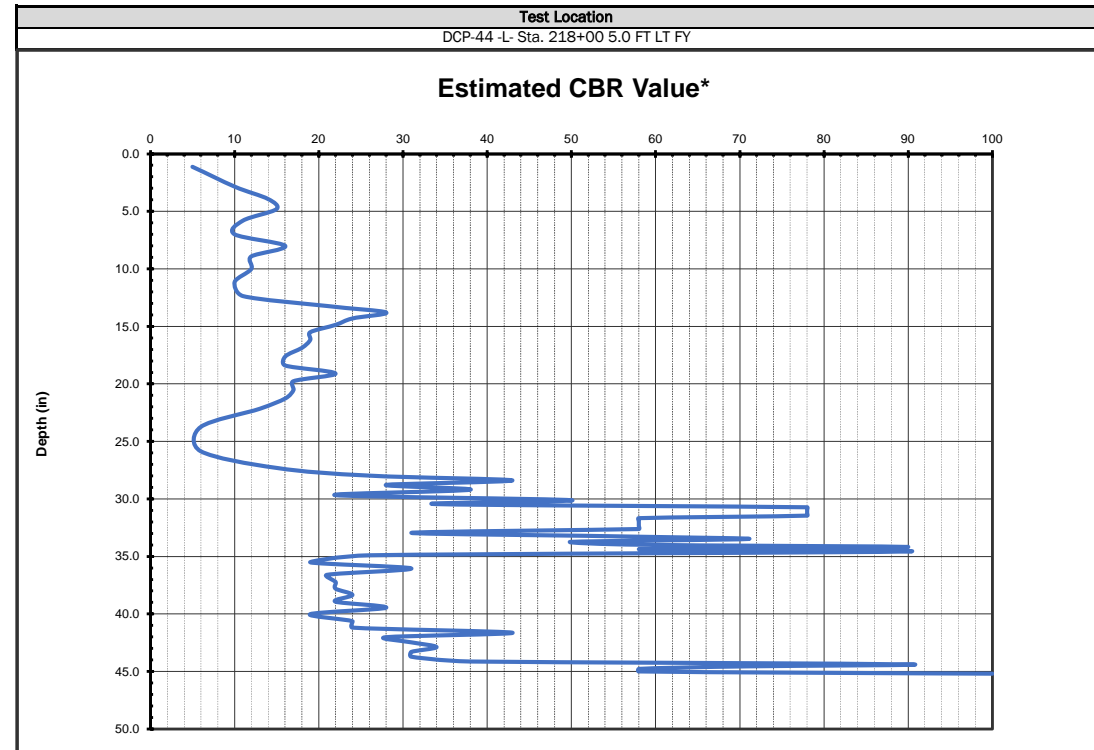
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	73
Weighted Average	30
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

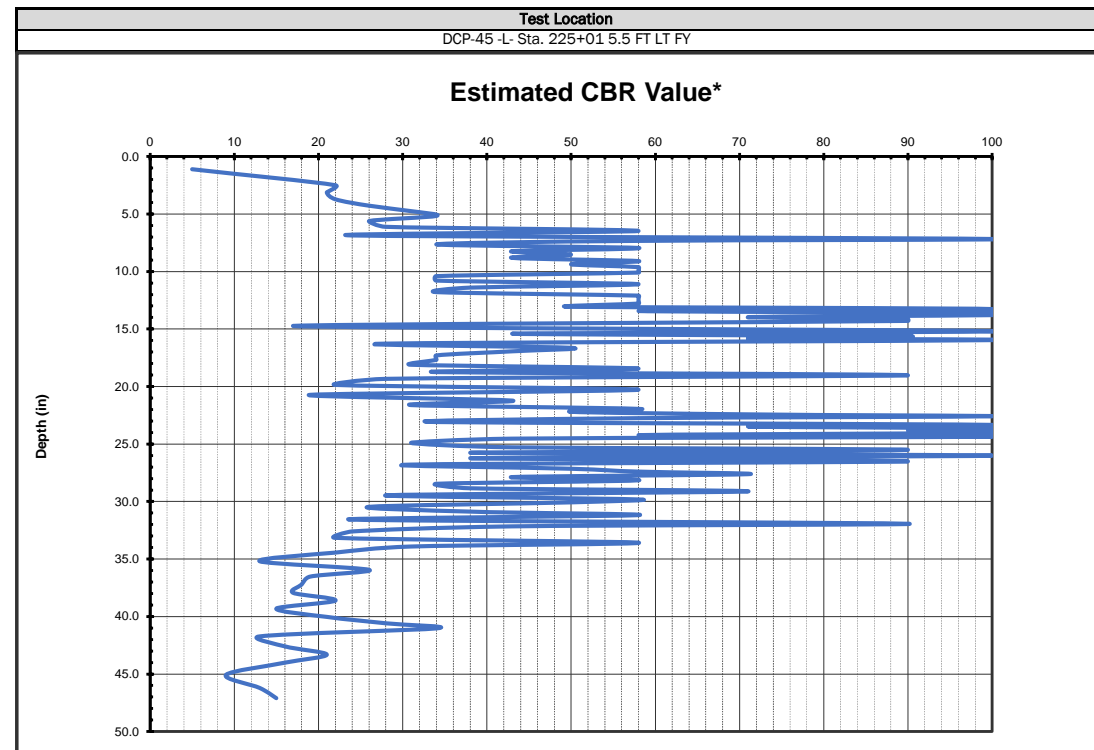


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-44 -L- Sta. 218+00 5.0 FT LT FY				11/16 to 11/22/22	DCP-45 -L- Sta. 225+01 5.5 FT LT FY		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	4.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill
5.60	107.30			5.60	58.10		
8.80	108.40			7.10	59.10		
11.10	109.40			8.70	59.40		
13.20	110.50			10.20	59.90		
16.20	111.60			11.50	60.20		
19.30	112.50			12.60	60.60		
21.30	112.90			13.60	60.90		
24.00	113.40			14.90	61.20		
26.70	114.00			16.10	61.80		
29.90	114.60			16.70	61.90		
32.80	114.90			18.10	62.70		
34.40				18.30	63.80		
35.60				18.90	64.60		
37.00				19.90	65.00		
38.50				20.50	65.90		
40.20				21.30	66.20		
41.90				22.00	67.10		
43.70				22.80	67.50		
45.70				23.40	68.60		
47.70				24.10	69.30		
49.20				24.70	69.90		
51.10				25.30	70.40		
53.00				25.90	71.20		
55.00				26.90	71.80		
57.50				27.90	72.80		
63.00				28.50	73.70		
68.30				29.40	74.20		
70.40				30.40	75.40		
71.70				31.00	76.00		
72.50				31.60	76.70		
73.70				32.20	78.00		
74.60				32.80	78.90		
76.10				33.50	79.50		
76.80				33.80	80.90		
77.80				34.40	81.30		
78.26				34.70	82.10		
78.72				34.90	83.50		
79.18				35.20	85.00		
79.64				35.70	85.60		
80.10				36.10	86.70		
80.70				36.50	88.20		
81.30				38.40	90.60		
81.90				38.70	91.90		
82.50				39.50	93.60		
83.10				39.90	95.40		
84.20				40.40	97.30		
84.80				40.70	98.80		
85.30				41.90	100.90		
86.00				42.60	102.50		
86.60				43.40	103.70		
87.00				44.40	104.70		
87.60				45.40	107.20		
88.00				46.50	109.20		
89.30				47.10	110.80		
91.00				48.10	112.80		
92.10				48.50	116.10		
93.70				49.70	118.60		
95.20				51.20	120.70		
96.70				51.80			
98.10				53.50			
99.60				54.30			
100.80				55.40			
102.50				56.00			
103.90				56.70			
105.30				57.20			
106.10				57.50			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	36
Weighted Average	22
Max CBR	100
Min CBR	5



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

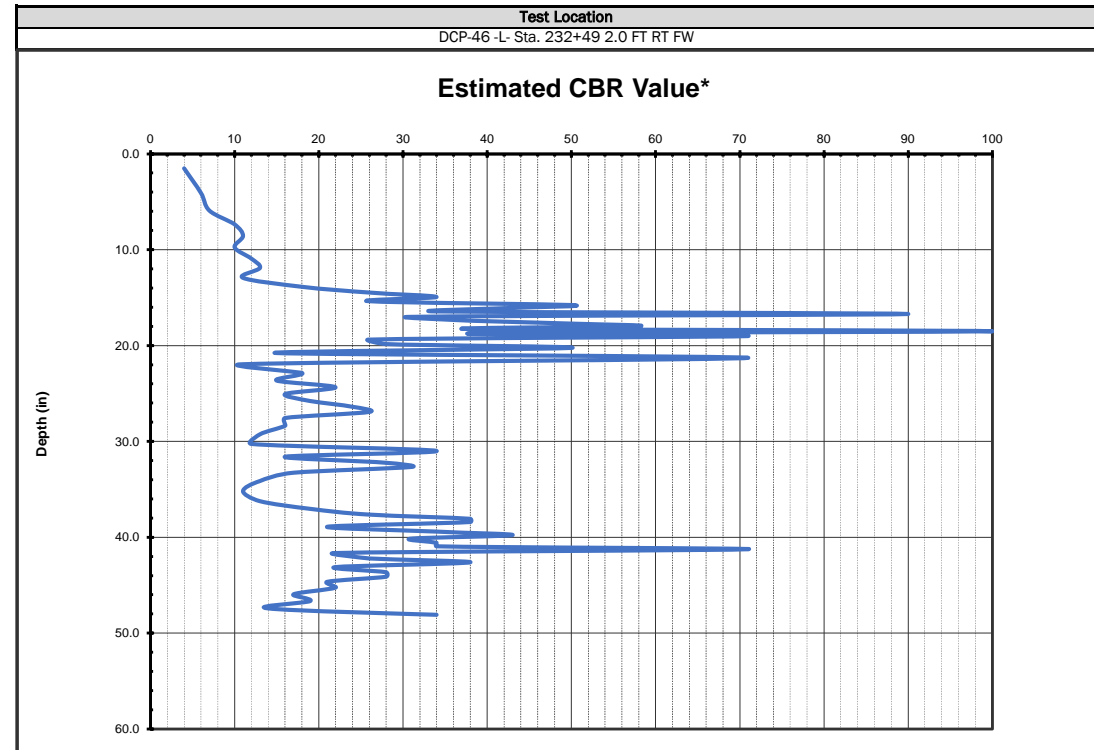
Soil Subgrade	
Average CBR	49
Weighted Average	34
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



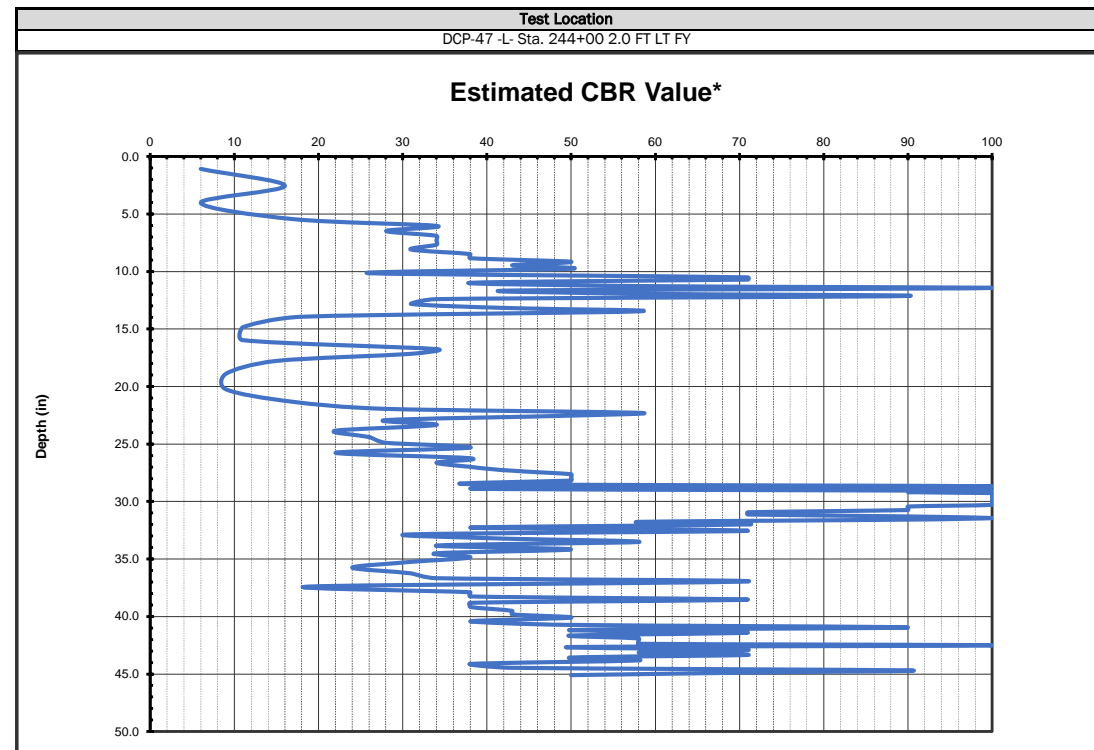


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-46 -L- Sta. 232+49 2.0 FT RT FW				11/16 to 11/22/22	DCP-47 -L- Sta. 244+00 2.0 FT LT FY		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	2.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	2.0 ft Fill
7.60	112.60			5.50	75.70		
12.90	114.20			7.50	75.88		
17.10	115.70			12.90	76.06		
20.30	117.60			14.80	76.24		
23.20	119.30			15.80	76.42		
26.40	121.60			17.00	76.60		
29.00	122.60			18.00	76.80		
31.40				19.00	77.10		
34.30				20.00	77.50		
36.10				21.10	77.90		
37.40				22.00	78.30		
38.40				22.90	78.80		
39.70				23.60	79.30		
40.40				24.40	79.70		
41.20				25.10	80.00		
42.20				26.40	80.40		
42.60				26.90	81.00		
43.70				27.40	81.50		
44.60				28.30	82.40		
45.30				28.90	82.90		
45.90				29.20	84.00		
46.80				30.00	84.80		
47.10				30.60	85.40		
48.00				31.00	86.40		
48.50				32.00	87.10		
49.80				33.10	88.10		
51.00				33.90	89.00		
51.70				34.50	90.10		
53.80				36.30	91.50		
54.30				39.10	92.60		
57.10				42.00	93.60		
58.90				43.00	94.10		
61.10				44.10	95.80		
62.60				46.20	96.70		
64.60				49.70	97.60		
66.30				53.20	98.10		
67.70				55.10	99.00		
69.00				56.30	99.90		
71.00				56.90	100.70		
73.00				57.60	101.50		
75.50				58.80	102.20		
78.20				59.80	103.10		
79.20				61.30	103.80		
81.20				62.60	104.20		
82.40				63.80	104.90		
83.50				64.70	105.40		
85.40				66.20	106.10		
87.90				67.10	106.70		
90.80				68.10	107.30		
93.20				69.00	107.90		
94.90				69.80	108.00		
96.20				70.50	108.70		
97.10				71.20	109.20		
98.00				71.90	109.80		
99.60				72.80	110.30		
100.60				72.90	111.00		
101.40				73.80	111.60		
102.50				73.90	112.50		
103.50				74.30	113.30		
104.50				74.40	113.70		
105.00				74.70	114.20		
106.50				74.80	114.90		
107.80				74.98			
108.70				75.16			
110.20				75.34			
111.40				75.52			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	28
Weighted Average	20
Max CBR	100
Min CBR	4



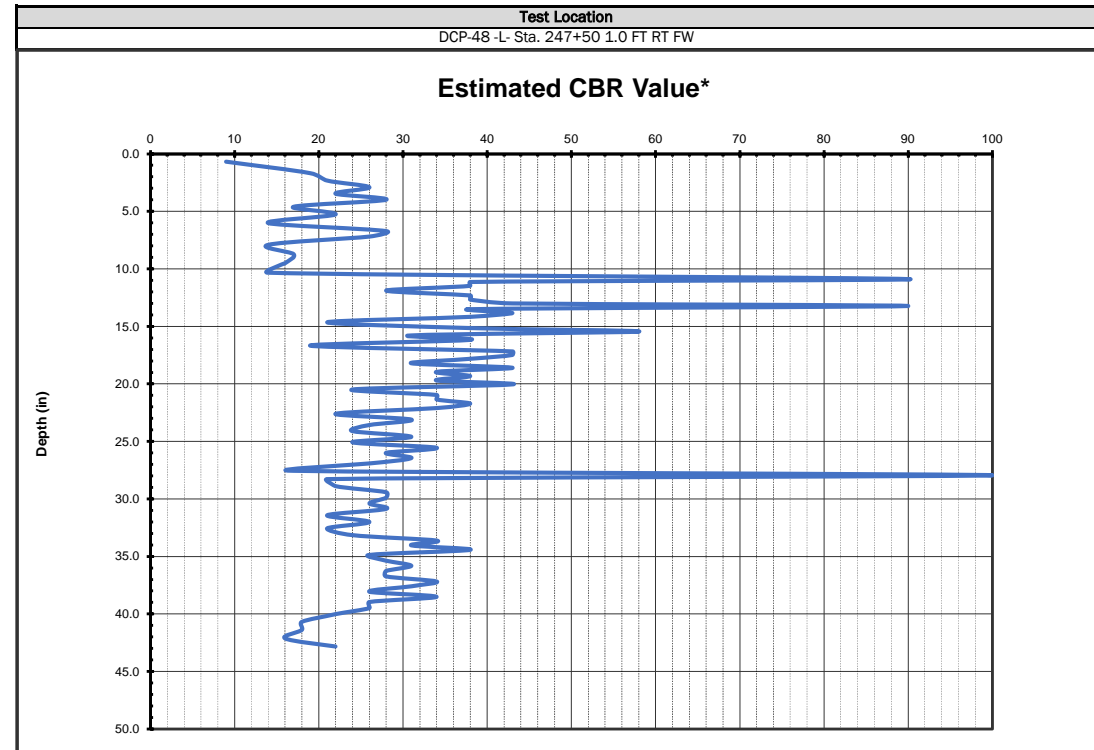
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	54
Weighted Average	36
Max CBR	100
Min CBR	6

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

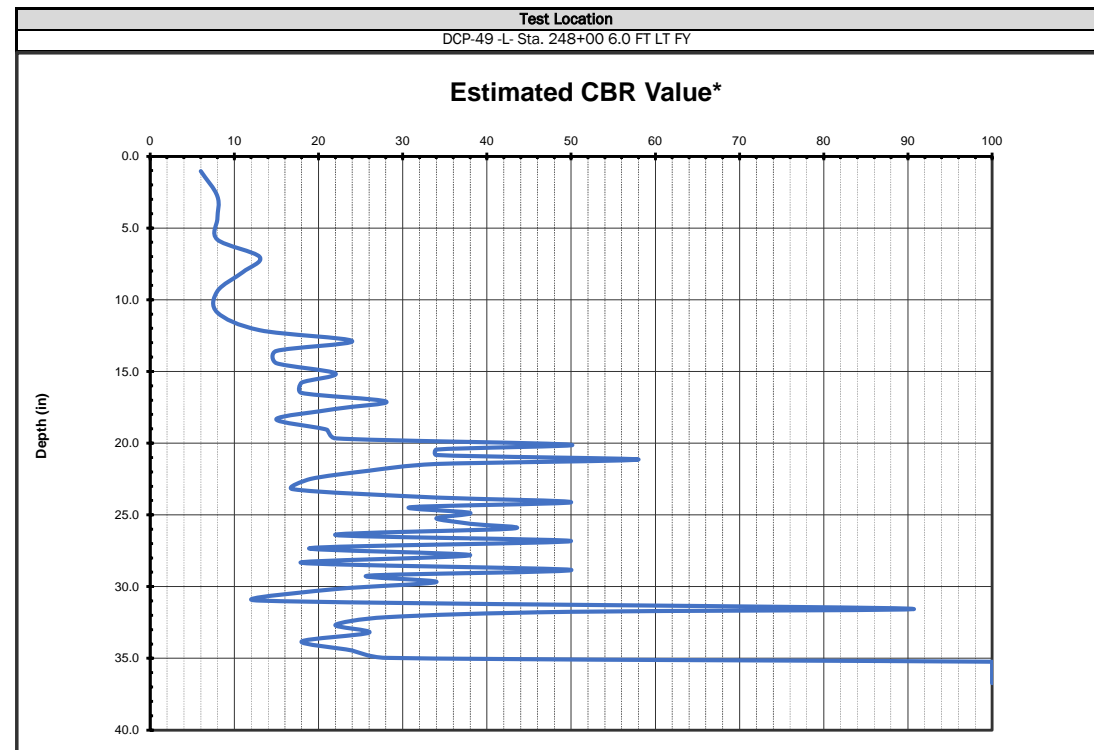


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-48 -L- Sta. 247+50 1.0 FT RT FW				11/16 to 11/22/22	DCP-49 -L- Sta. 248+00 6.0 FT LT FY		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG	2.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill
3.40	83.50			5.20	91.27		
5.10	84.90			9.00	91.40		
6.70	85.90			12.90	91.53		
8.00	87.00			16.60	91.67		
9.50	87.90			19.00	91.80		
10.70	89.20			22.00	91.93		
12.60	90.40			25.70	92.07		
14.10	91.50			29.60	92.20		
16.40	92.70			32.00	92.27		
17.60	93.90			33.40	92.35		
18.90	94.90			35.50	92.42		
21.20	96.00			37.70	92.49		
23.10	97.30			39.20	92.57		
25.10	98.30			41.00	92.64		
27.40	99.60			42.80	92.71		
27.80	100.90			44.00	92.79		
28.70	102.40			45.50	92.86		
29.60	104.20			47.60	92.93		
30.80	106.00			49.20	93.01		
31.70	108.00			50.70	93.08		
32.60	109.50			51.40	93.15		
33.40				52.40	93.23		
33.80				53.40	93.30		
34.70				54.00	DCP REF		
35.50				55.00	80/9.0'		
36.40				56.30			
38.00				58.00			
38.90				59.90			
39.50				60.90			
40.60				61.60			
41.50				62.70			
43.20				63.60			
44.00				64.60			
44.80				65.50			
45.70				66.30			
46.80				67.80			
47.60				68.50			
48.60				70.20			
49.50				71.10			
50.50				72.90			
51.30				73.60			
52.70				74.90			
53.70				75.90			
54.70				77.40			
55.60				79.90			
56.60				80.30			
58.10				81.00			
59.20				82.20			
60.50				83.70			
61.90				85.00			
63.00				86.80			
64.40				88.20			
65.40				89.40			
66.60				89.53			
67.70				89.67			
69.00				89.80			
70.90				89.93			
71.00				90.07			
72.60				90.20			
74.10				90.33			
75.30				90.47			
76.50				90.60			
77.80				90.73			
79.00				90.87			
80.60				91.00			
81.90				91.13			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	31
Weighted Average	27
Max CBR	100
Min CBR	9



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

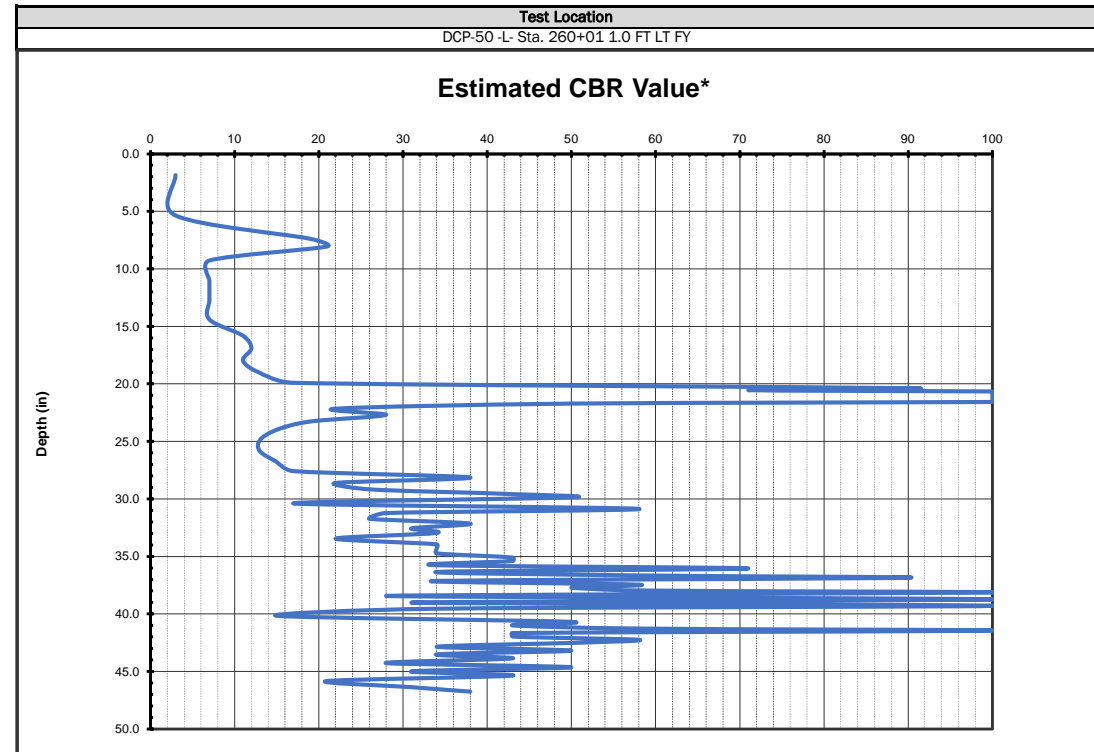
Soil Subgrade	
Average CBR	56
Weighted Average	23
Max CBR	100
Min CBR	6

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



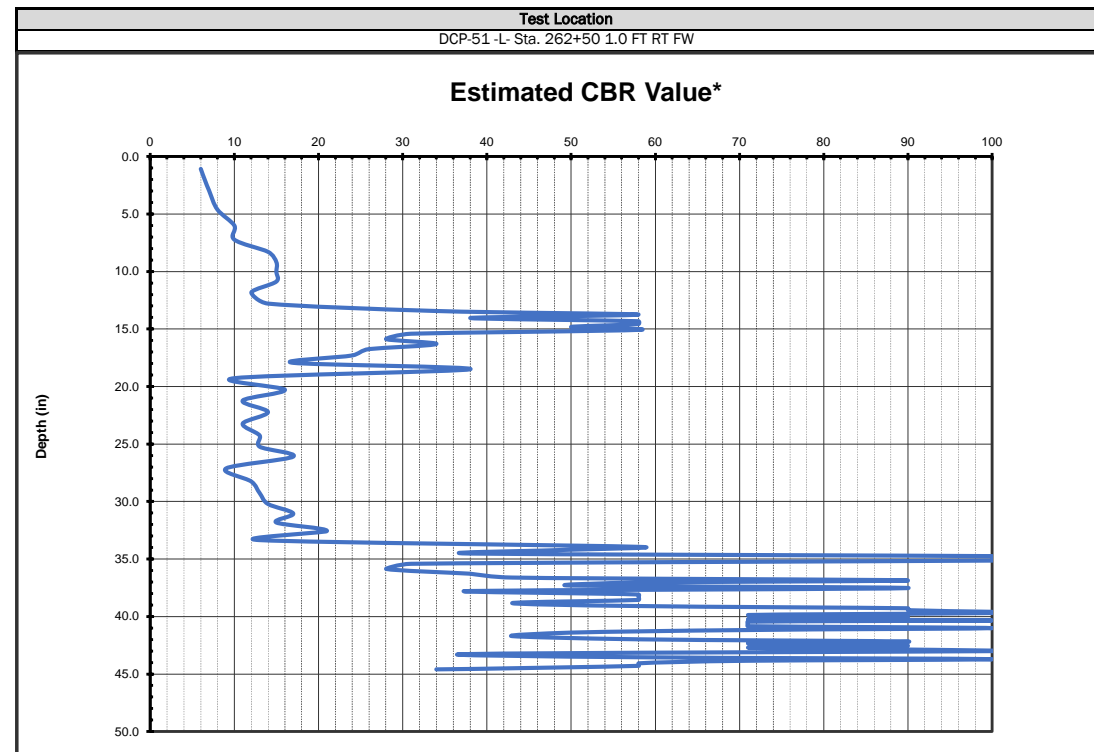


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location				Date Run	Test Location				Date Run		
DCP-50 -L- Sta. 260+01 1.0 FT LT FY				11/16 to 11/22/22	DCP-51 -L- Sta. 262+50 1.0 FT RT FW				11/16 to 11/22/22		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	4.0 ft Fill				
9.30	93.80			5.40	101.50						
17.90	94.80			9.70	101.90						
19.60	95.40			13.70	102.40						
21.20	96.10			16.80	102.50						
25.90	96.70			19.90	103.00						
30.10	97.00			22.20	103.50						
34.40	98.20			24.40	104.00						
38.70	98.50			26.50	104.30						
41.60	99.60			28.70	104.80						
44.20	99.90			31.30	105.50						
47.10	100.90			33.60	106.30						
49.60	103.00			34.60	106.90						
51.50	103.70			35.20	107.30						
51.90	104.50			36.10	107.80						
52.40	105.10			36.70	108.20						
52.51	105.40			37.30	108.70						
52.62	106.20			38.00	109.10						
52.73	107.00			38.60	109.40						
52.84	107.60			39.70	110.30						
52.95	108.30			40.90	110.90						
53.06	109.30			41.90	111.10						
53.17	110.00			43.20	111.60						
53.28	111.00			44.60	112.20						
53.39	111.80			46.50	112.80						
53.50	113.00			47.40	113.80						
53.63	113.70			50.50							
53.76	114.80			52.50							
53.89	115.60			55.30							
54.02	117.20			57.60							
54.15	118.30			60.40							
54.28	119.20			62.80							
54.41				65.30							
54.54				67.20							
54.67				70.50							
54.80				73.10							
55.50				75.60							
57.00				77.90							
58.20				79.80							
59.90				81.90							
62.00				83.50							
64.40				85.90							
66.90				86.50							
69.10				87.20							
71.00				88.10							
71.90				88.43							
73.40				88.75							
74.70				89.08							
75.50				89.40							
76.20				90.50							
78.10				91.70							
78.70				92.60							
79.90				93.40							
81.20				93.80							
82.10				94.40							
83.20				95.10							
84.20				95.50							
85.70				96.40							
86.70				97.00							
87.70				97.60							
88.70				98.20							
89.50				99.00							
90.30				99.60							
91.30				100.00							
91.80				100.40							
92.80				100.70							
93.40				101.00							



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	50
Weighted Average	24
Max CBR	100
Min CBR	3



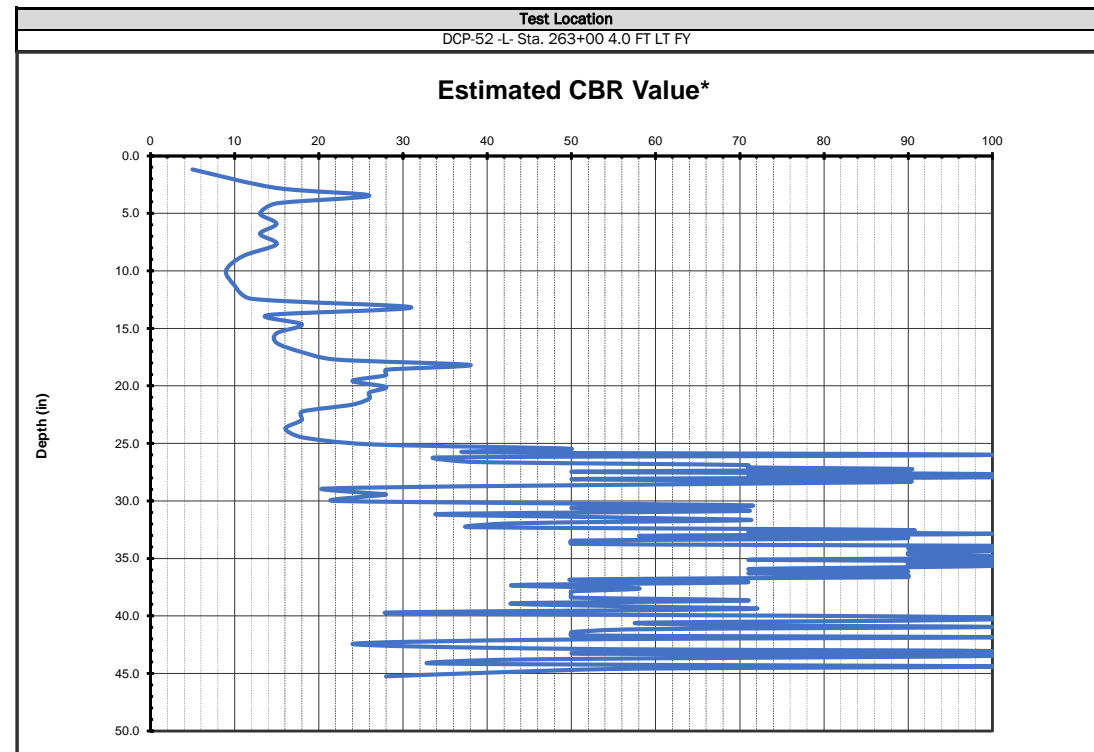
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	48
Weighted Average	27
Max CBR	100
Min CBR	6

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

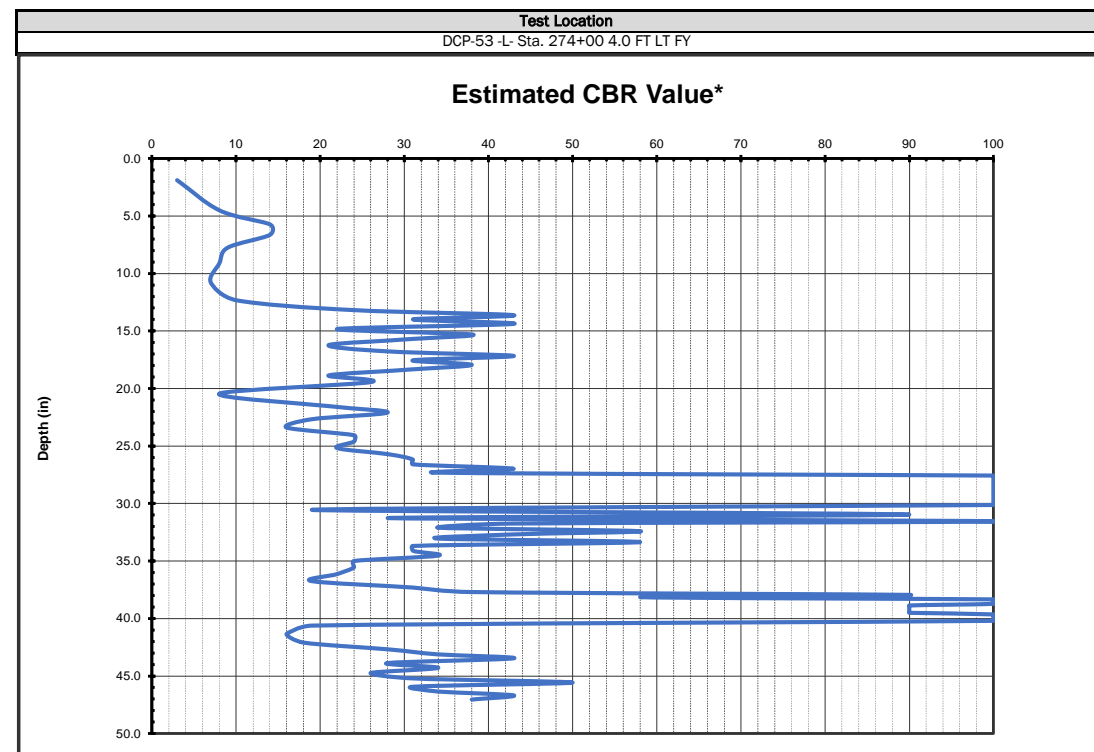


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-52 -L- Sta. 263+00 4.0 FT LT FY				11/16 to 11/22/22	DCP-53 -L- Sta. 274+00 4.0 FT LT FY		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-6)	6.0 ft Fill
6.00	86.50			9.50	78.40		
8.10	86.90			13.40	78.80		
9.40	87.10			15.70	80.00		
11.50	87.40			18.00	80.20		
13.90	87.80			21.30	81.00		
16.00	88.20			25.00	82.00		
18.40	88.50			29.70	82.60		
20.60	88.70			32.80	83.40		
23.60	88.90			34.20	84.40		
27.00	89.40			35.00	85.00		
30.20	89.60			36.10	86.10		
32.90	90.00			36.90	87.20		
34.00	90.40			38.40	88.20		
36.30	90.60			39.30	89.60		
38.10	91.00			40.40	91.00		
40.20	91.50			42.00	92.50		
42.40	91.90			43.20	94.20		
44.20	92.40			44.00	95.30		
45.70	92.80			45.10	96.20		
46.60	93.20			46.00	96.60		
47.80	93.90			47.10	97.20		
49.00	94.40			48.70	97.46		
50.40	95.20			50.00	97.72		
51.60	95.80			53.90	97.98		
52.90	96.50			55.50	98.24		
54.20	97.20			56.70	98.50		
55.60	97.90			58.40	98.90		
57.40	98.40			60.40	99.30		
59.20	99.20			61.80	99.70		
61.20	99.80			63.20	100.10		
63.00	100.30			64.70	100.50		
64.30	101.50			65.90	100.86		
65.00	101.90			67.00	101.22		
65.90	102.20			68.10	101.58		
66.10	102.40			68.90	101.94		
67.10	102.80			69.90	102.30		
68.00	103.40			70.10	104.00		
68.50	103.90			70.30	106.00		
69.00	104.20			70.50	107.80		
69.40	104.80			70.70	109.00		
70.10	105.50			70.90	110.00		
70.40	106.20			71.12	110.80		
70.90	106.40			71.34	112.00		
71.00	107.10			71.56	113.00		
71.70	108.50			71.78	114.30		
72.10	109.20			72.00	115.40		
72.60	109.50			72.22	116.10		
74.20	110.20			72.44	117.20		
75.40	110.40			72.66	118.20		
76.90	110.80			72.88	119.00		
77.40	111.60			73.10	119.90		
78.10	112.60			73.28			
78.60	112.90			73.46			
79.60	113.50			73.64			
80.20	114.30			73.82			
80.70	115.50			74.00			
81.50				74.18			
82.40				74.36			
82.80				74.54			
83.30				74.72			
83.60				74.90			
84.20				75.26			
84.60				75.62			
85.30				75.98			
86.00				76.34			
86.20				76.70			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	56
Weighted Average	34
Max CBR	100
Min CBR	5



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

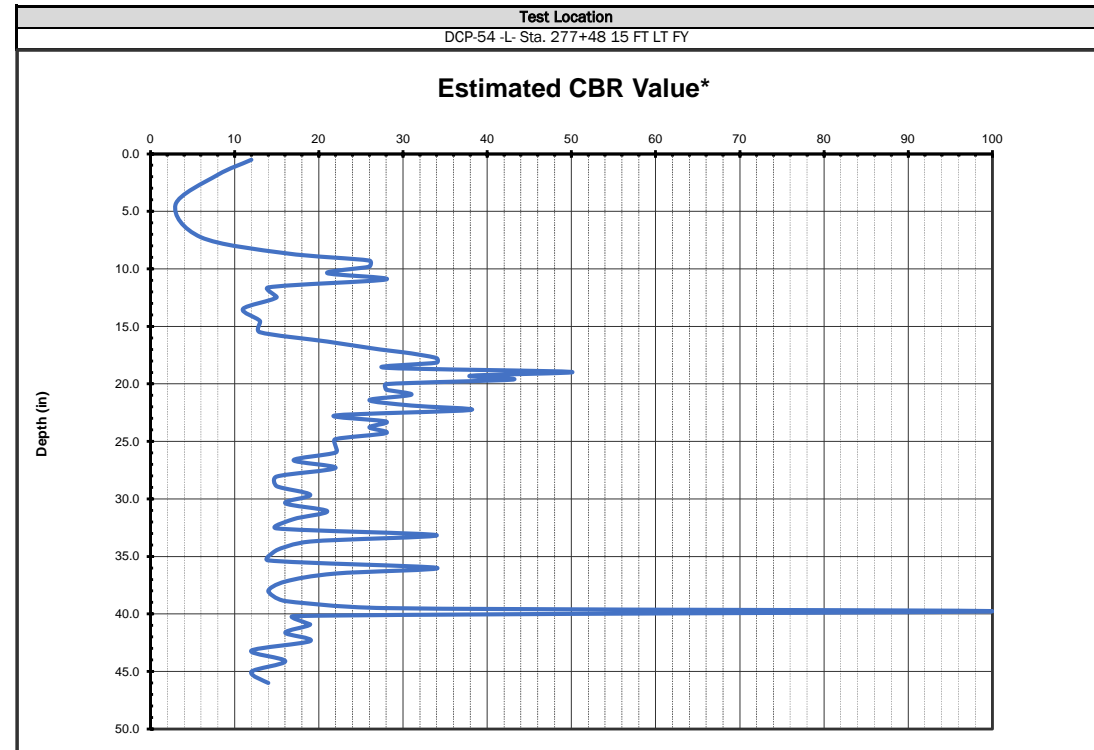
Soil Subgrade	
Average CBR	57
Weighted Average	30
Max CBR	100
Min CBR	3

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)



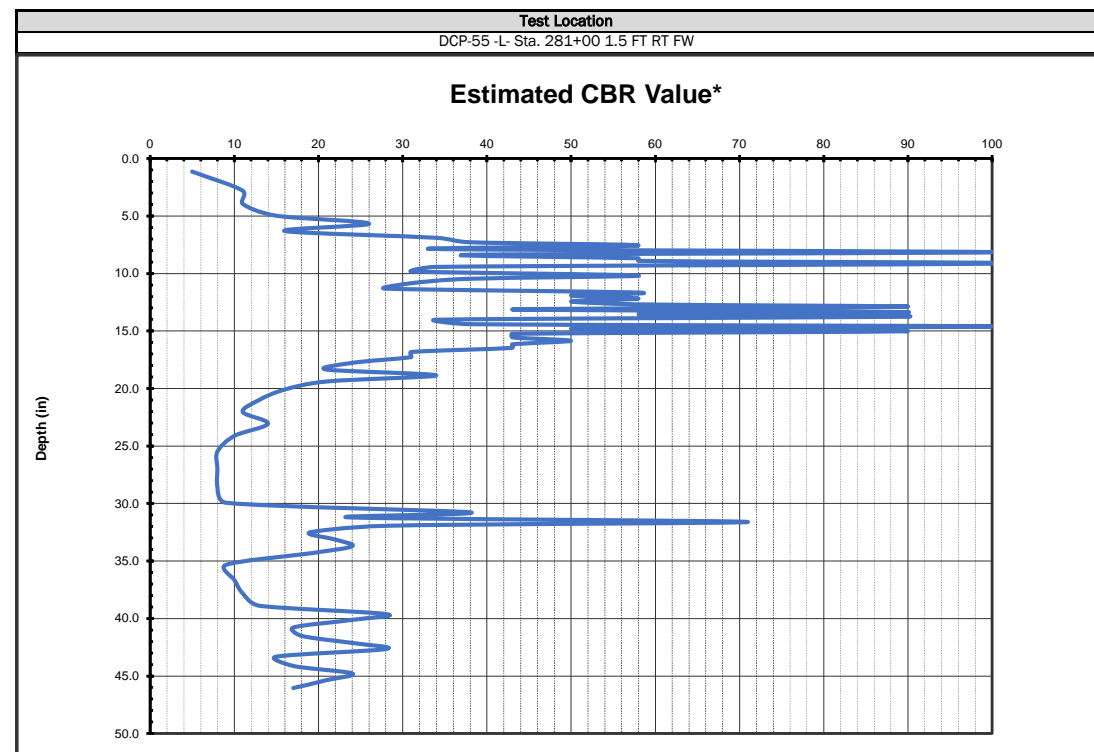


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-54 -L- Sta. 277+48 15 FT LT FY				11/16 to 11/22/22	DCP-55 -L- Sta. 281+00 1.5 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow	SG	3.0 ft Fill
2.60				5.70	94.60		
6.60				8.50	97.50		
15.80				11.50	100.00		
20.90				13.70	101.20		
22.90				15.00	102.60		
24.20				17.00	104.50		
25.50				18.00	106.30		
27.10				18.90	107.70		
28.30				19.50	108.90		
30.60				20.50	111.10		
32.70				20.80	113.00		
35.70				21.70	114.40		
38.10				22.30	116.00		
40.60				22.90	117.90		
42.20				23.10			
43.50				23.40			
44.60				24.40			
45.60				25.50			
46.60				26.10			
47.80				27.00			
48.50				28.10			
49.40				29.30			
50.20				29.90			
51.40				30.60			
52.60				31.20			
53.70				31.90			
55.00				32.50			
56.10				32.90			
57.00				33.70			
58.50				34.10			
59.70				34.70			
61.00				35.10			
62.20				36.10			
63.70				37.00			
65.20				37.20			
66.70				37.90			
68.60				38.30			
70.10				39.10			
72.30				39.90			
74.40				40.60			
76.10				41.40			
78.10				42.20			
79.70				43.30			
81.60				44.40			
83.70				45.80			
84.70				47.40			
86.40				48.40			
88.60				50.00			
90.90				52.00			
91.90				54.50			
93.40				57.40			
95.40				59.70			
97.70				62.80			
99.70				66.60			
100.90				70.50			
101.10				74.40			
103.00				77.70			
104.70				78.60			
106.70				80.00			
108.40				80.50			
111.00				81.70			
113.00				83.40			
115.70				84.90			
118.00				86.30			
				88.00			
				91.50			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	23
Weighted Average	18
Max CBR	100
Min CBR	3



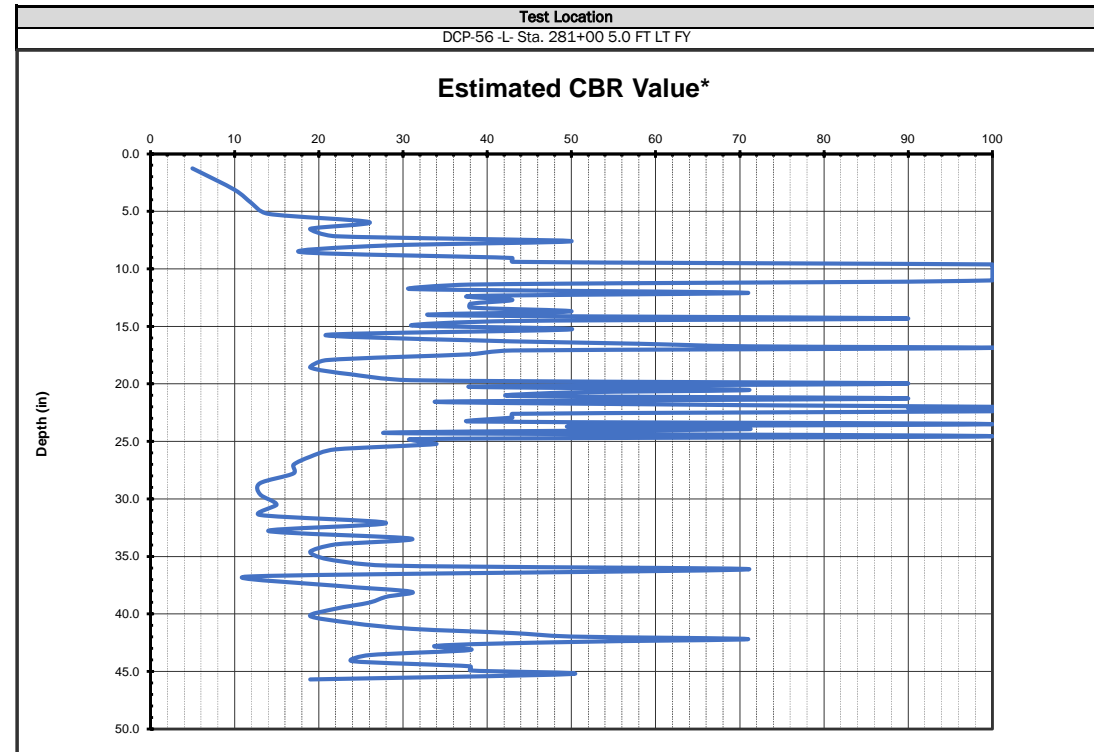
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	36
Weighted Average	22
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

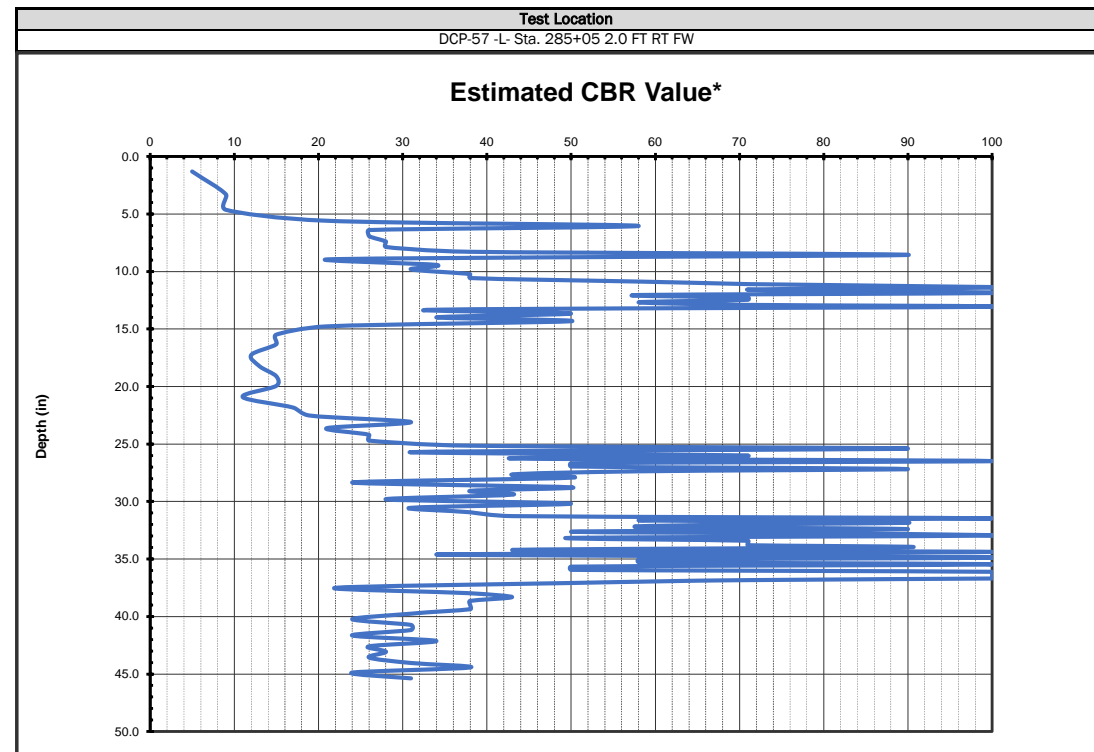


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
Test Location				Date Run	Test Location		Date Run
DCP-56 -L- Sta. 281+00 5.0 FT LT FY				11/16 to 11/22/22	DCP-57 -L- Sta. 285+05 2.0 FT RT FW		11/16 to 11/22/22
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG	5.0 ft Fill	DCP	Cumulative cm per blow	SG (A-4)	4.0 ft Fill
6.30	53.00			6.60	79.00		
9.50	53.80			10.10	79.80		
12.10	54.20			13.40	80.00		
14.40	55.20			15.00	80.60		
15.70	55.70			15.60	81.00		
17.40	56.00			16.90	81.50		
18.90	56.40			18.20	82.10		
19.60	56.70			19.40	82.50		
20.80	57.00			20.60	83.20		
22.60	57.80			21.50	83.60		
23.40	58.60			21.90	83.90		
24.20	59.50			23.40	84.60		
24.50	59.80			24.40	85.10		
24.59	60.50			25.50	85.60		
24.67	61.00			26.40	86.10		
24.76	62.20			27.30	86.50		
24.85	62.40			27.90	87.30		
24.93	63.50			28.40	87.40		
25.02	64.50			28.80	88.40		
25.11	66.00			29.10	88.70		
25.19	67.70			29.60	89.30		
25.28	69.60			30.00	89.90		
25.37	71.50			30.30	90.20		
25.45	73.90			30.90	90.90		
25.54	76.40			31.40	91.60		
25.63	78.50			31.90	91.80		
25.71	80.90			32.50	92.10		
25.80	82.10			33.00	92.40		
26.02	84.40			33.30	92.70		
26.24	85.50			34.30	93.00		
26.46	87.00			35.00	93.10		
26.68	88.70			36.00	93.30		
26.90	90.30			36.70	93.80		
27.12	91.50			38.30	94.50		
27.34	92.00			40.40	96.00		
27.56	94.60			42.50	96.90		
27.78	96.10			45.10	97.70		
28.00	97.20			47.50	98.60		
28.40	98.40			49.60	99.50		
29.30	99.70			51.70	100.40		
30.40	101.20			54.50	101.50		
30.90	102.90			56.40	102.90		
31.80	104.30			58.10	104.00		
32.60	105.40			59.20	105.10		
33.50	106.20			60.80	106.50		
34.40	106.90			62.10	107.50		
35.10	107.40			63.40	108.80		
36.10	108.10			64.30	110.00		
36.50	109.10			64.70	111.30		
37.30	110.00			65.80	112.40		
38.40	111.30			66.30	113.30		
39.10	112.70			67.10	114.70		
40.70	113.60			67.40	115.80		
41.60	114.50			68.10			
42.20	115.20			68.80			
42.70	116.90			69.20			
43.00				69.80			
43.80				70.60			
44.70				71.30			
46.30				72.70			
48.00				73.40			
49.40				74.30			
50.50				75.10			
50.90				76.30			
51.80				77.00			
52.30				78.10			



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	53
Weighted Average	31
Max CBR	100
Min CBR	5



ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

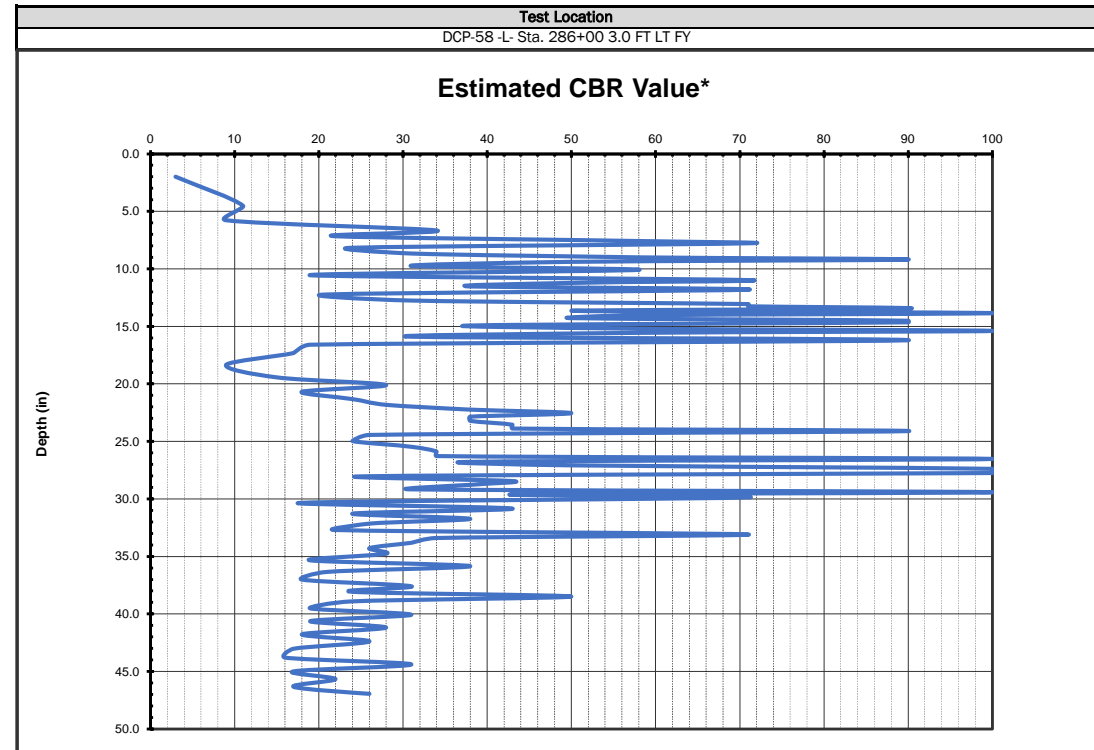
Soil Subgrade	
Average CBR	51
Weighted Average	34
Max CBR	100
Min CBR	5

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)





DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER	
				Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic	
				Date Run	Test Location	Date Run	
DCP-58 -L- Sta. 286+00 3.0 FT LT FY				11/16 to 11/22/22			
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	SG (A-4)	2.0 ft Fill	DCP	Cumulative cm per blow		
10.00	70.20						
12.90	70.30						
16.40	70.40						
17.40	70.50						
18.90	71.80						
19.50	72.60						
20.00	73.50						
21.40	74.60						
22.50	74.80						
23.10	75.60						
23.50	76.10						
24.20	77.90						
25.30	78.70						
25.90	80.10						
27.60	81.00						
28.10	82.30						
28.80	83.80						
29.70	84.30						
30.20	85.30						
31.80	86.40						
32.90	87.70						
33.40	88.90						
33.90	90.60						
34.30	91.50						
35.00	93.10						
35.30	94.90						
35.90	96.00						
36.60	97.40						
37.00	98.10						
37.40	99.50						
38.30	101.20						
38.90	102.30						
39.20	104.00						
39.80	105.20						
40.90	107.00						
41.30	108.30						
43.00	110.20						
44.90	112.20						
48.30	113.30						
50.40	115.20						
51.60	116.70						
53.40	118.60						
54.80	119.90						
56.00							
56.90							
57.60							
58.50							
59.40							
60.20							
61.00							
61.40							
62.70							
64.10							
65.20							
66.20							
67.20							
67.50							
68.40							
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69.60							
69.70							
69.80							
69.90							
70.00							
70.10							



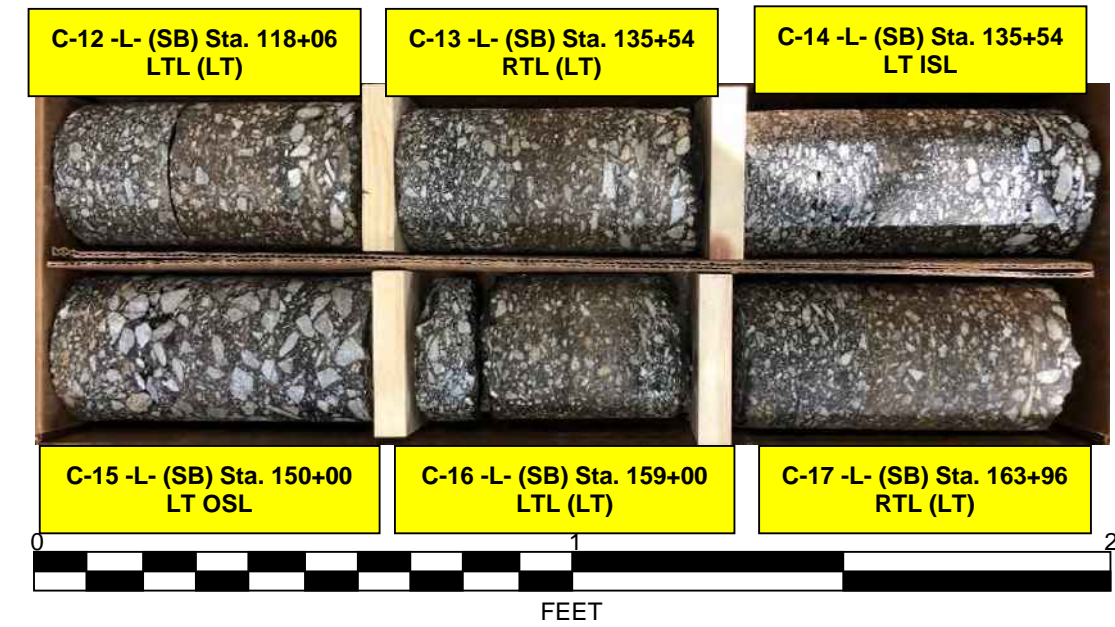
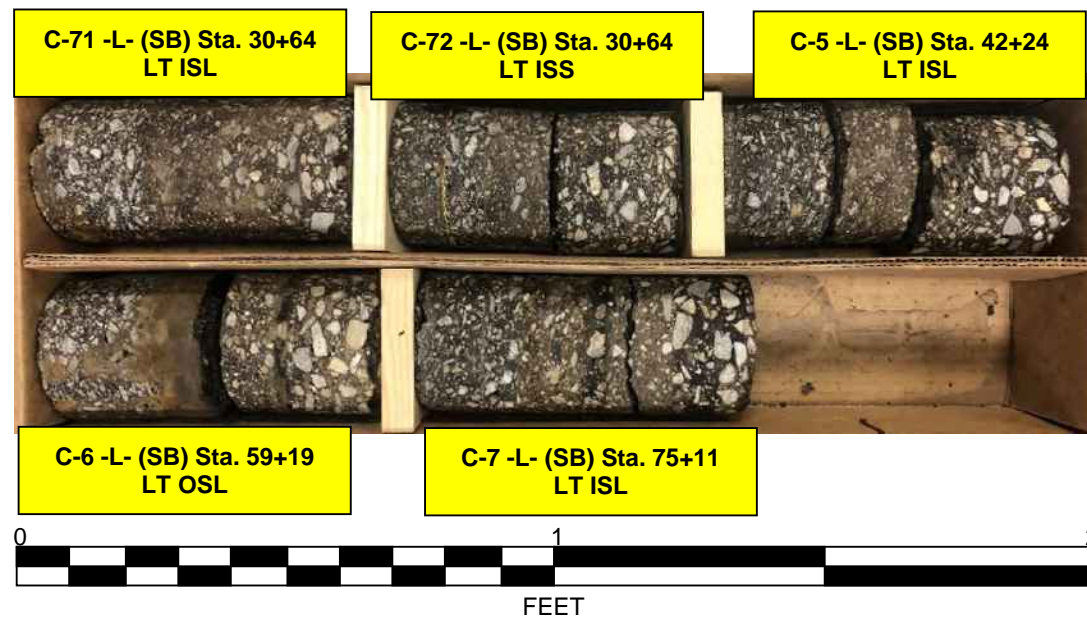
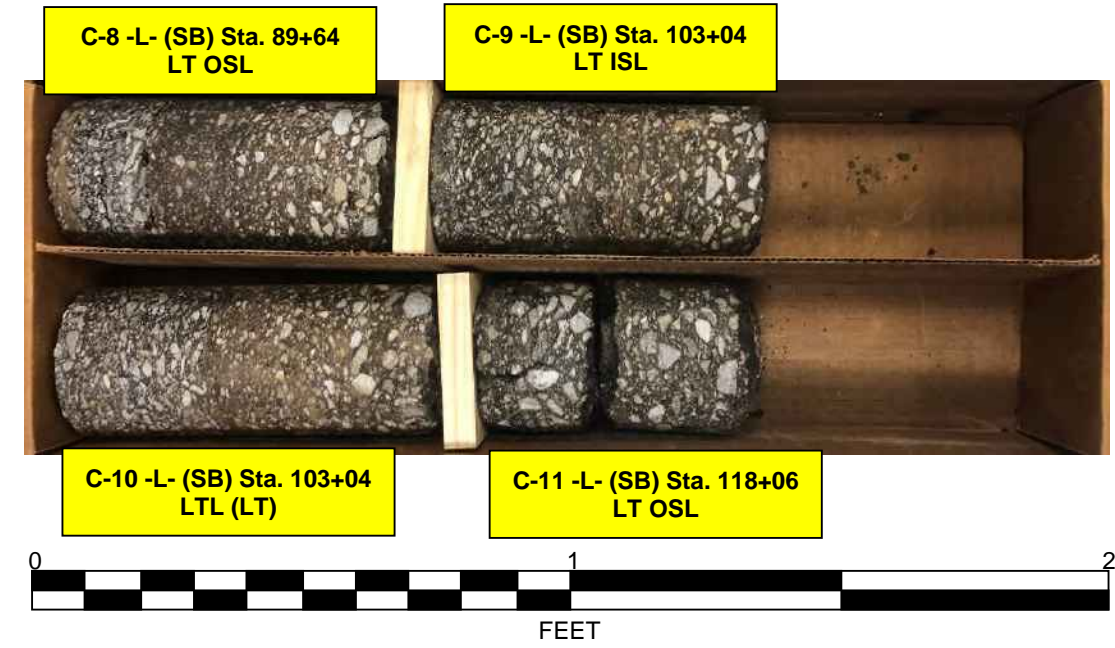
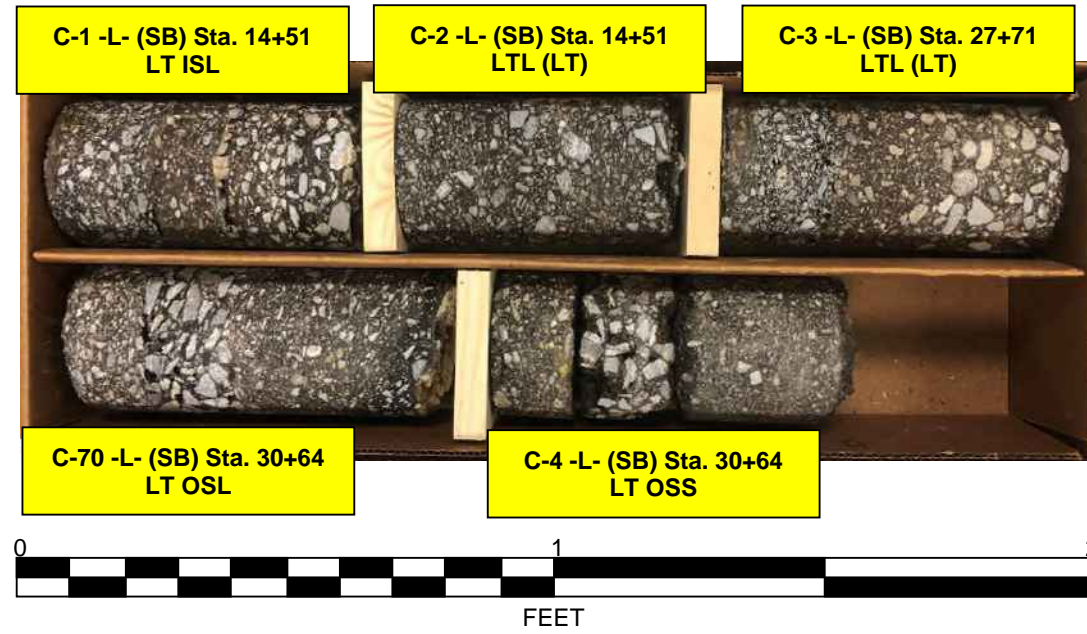
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	46
Weighted Average	29
Max CBR	100
Min CBR	3

\*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

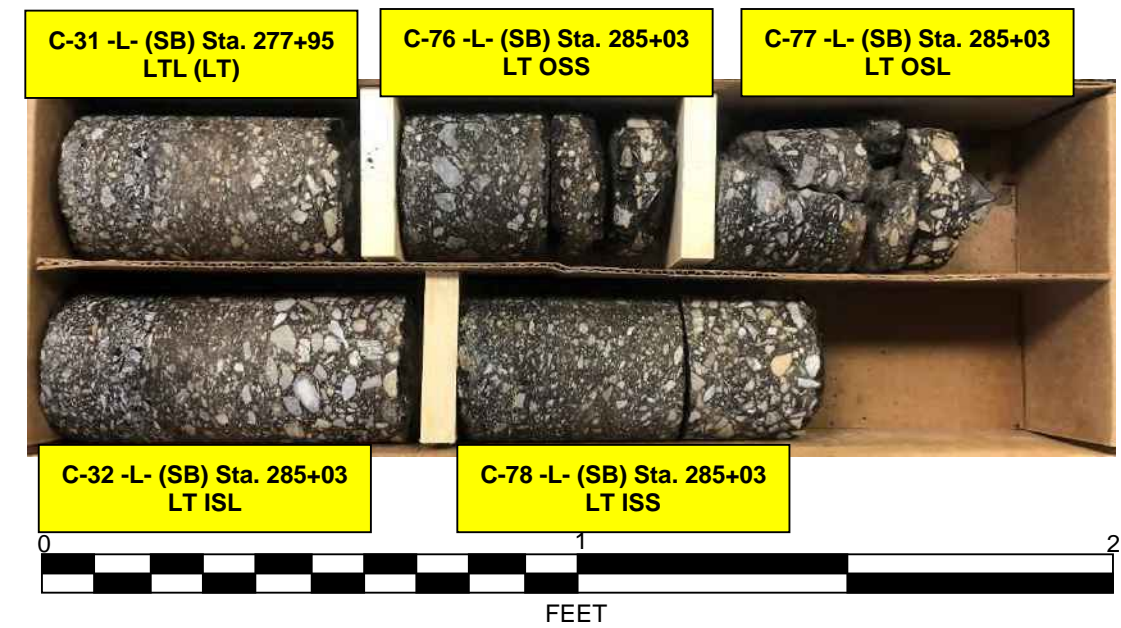
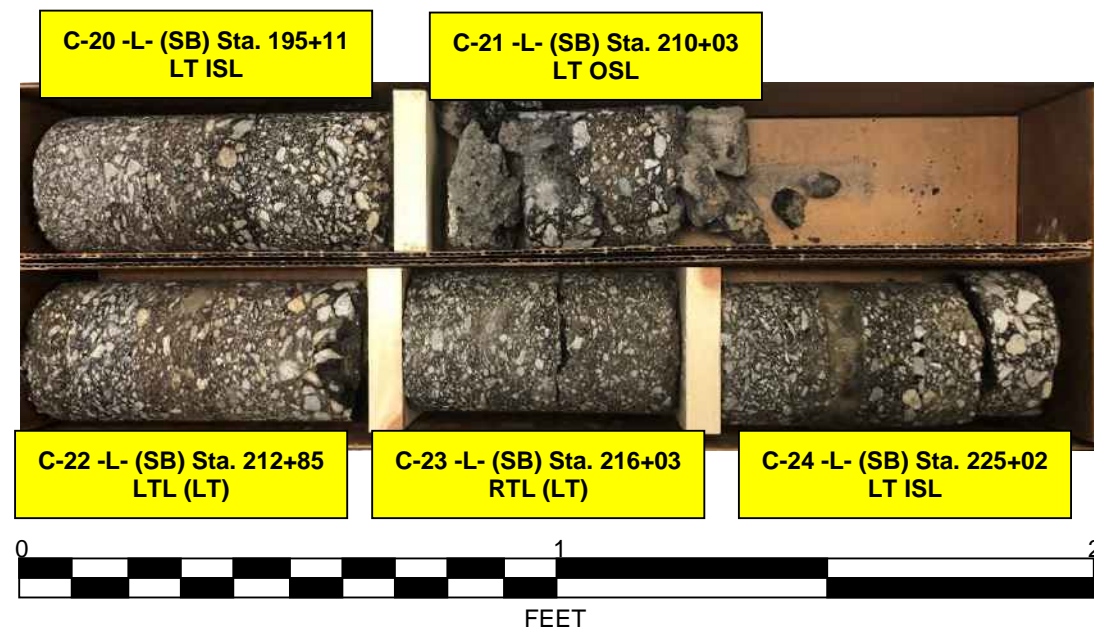
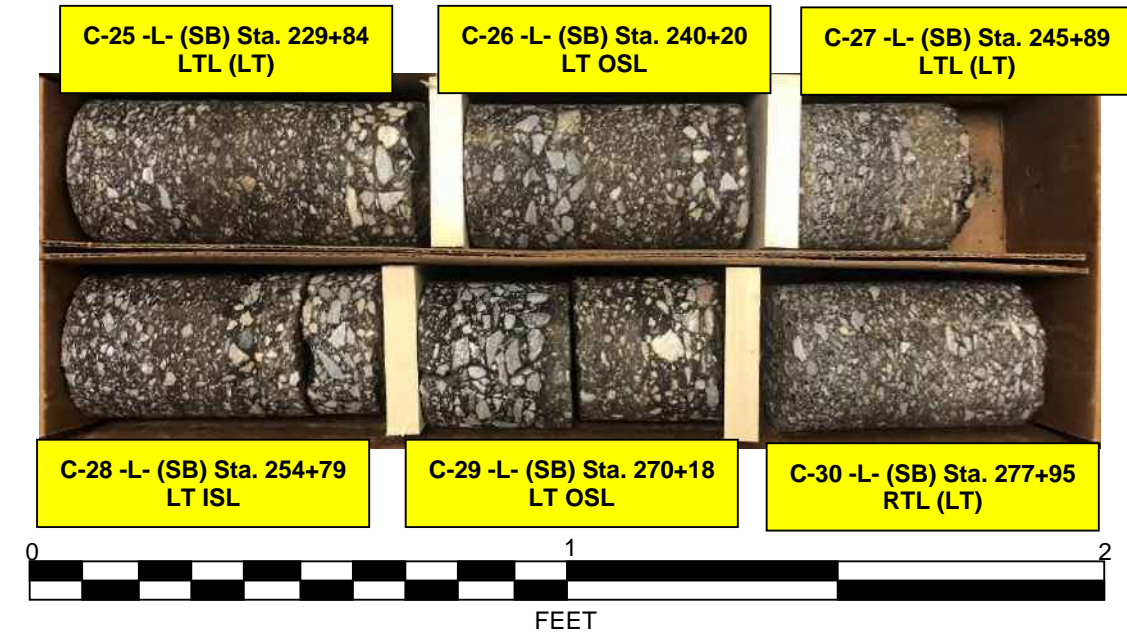
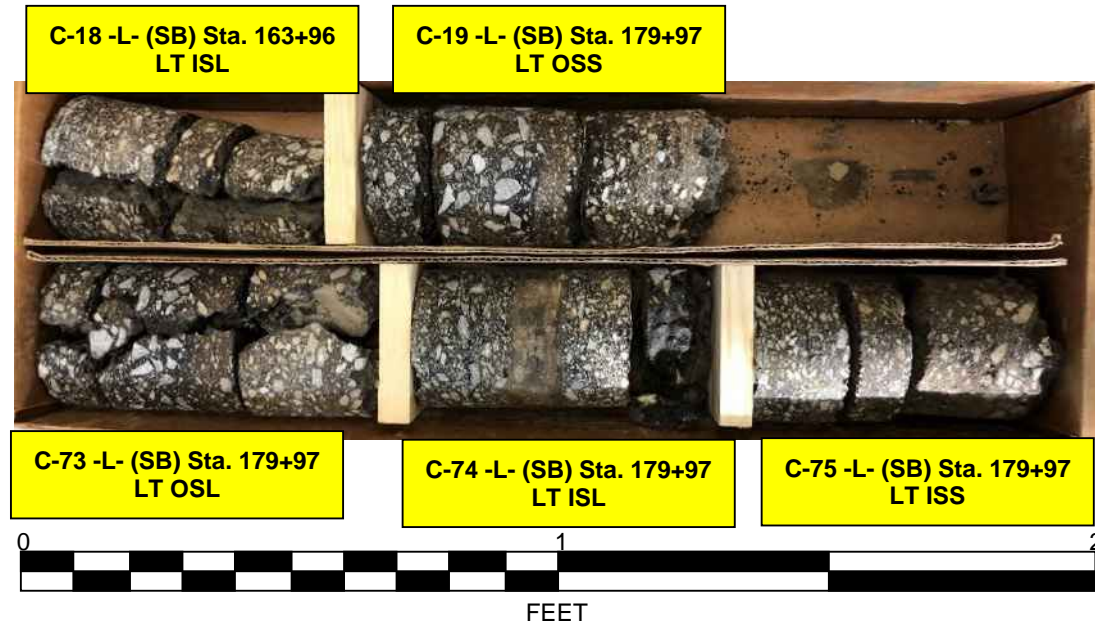
**R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40**

**Pavement Core Photographs**





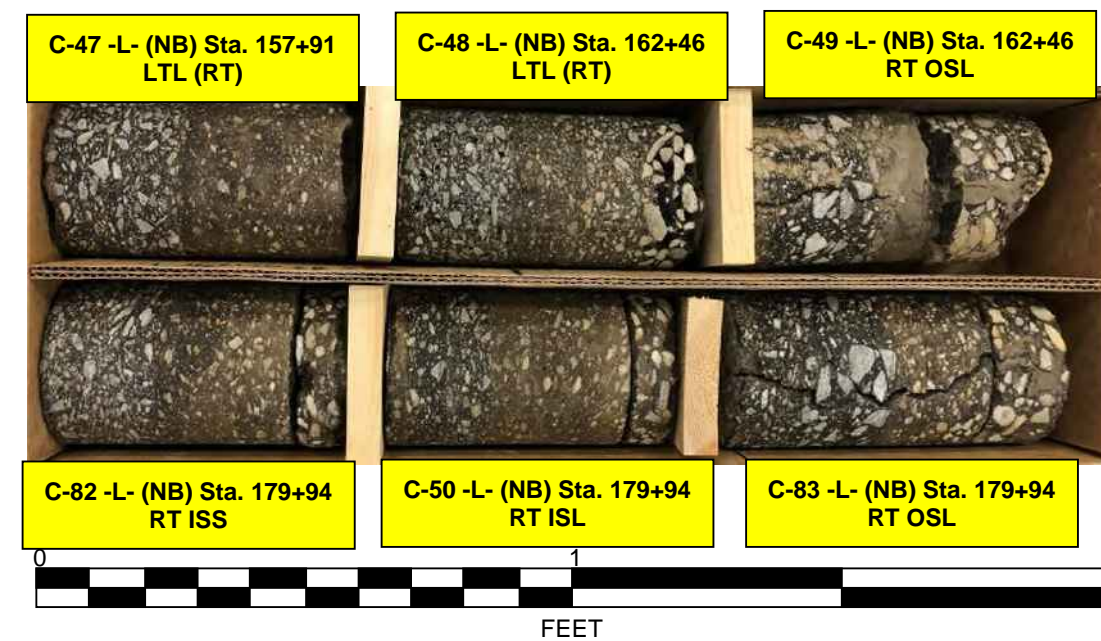
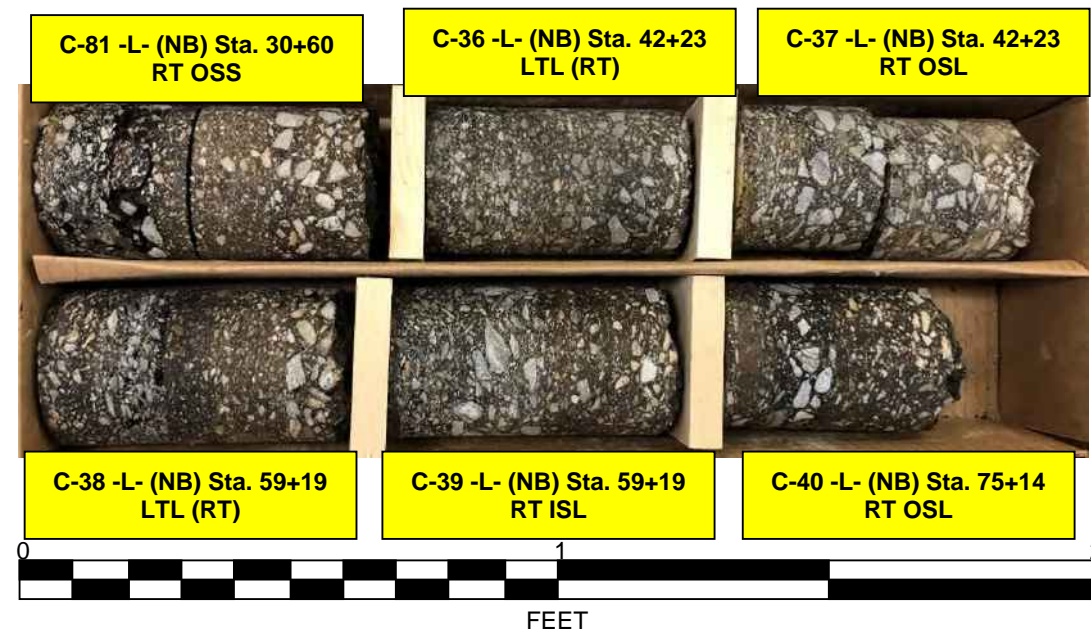
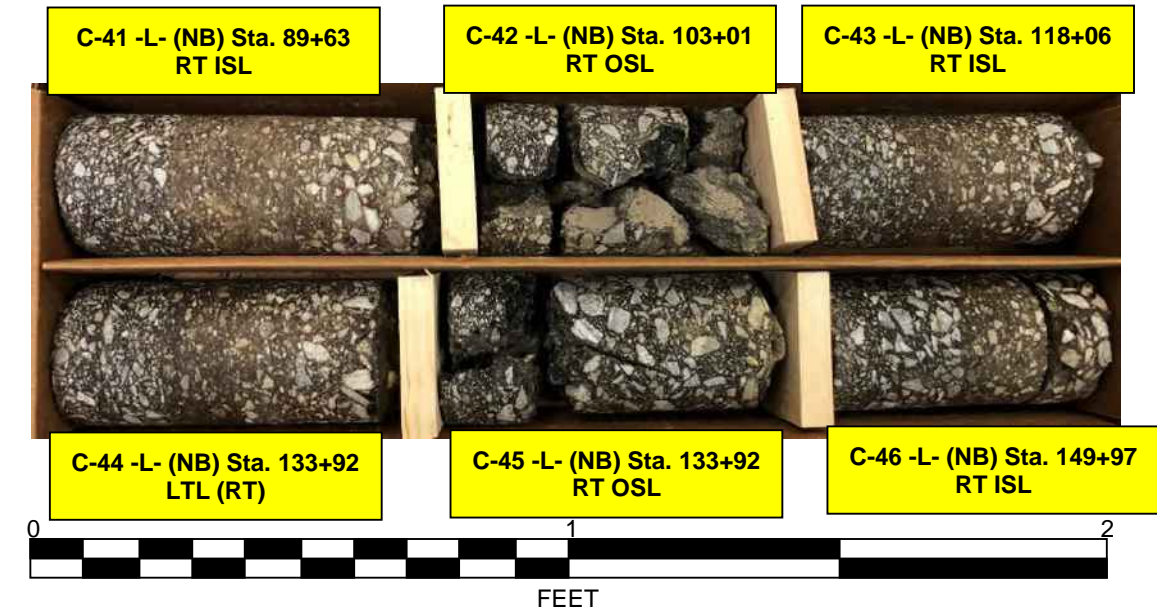
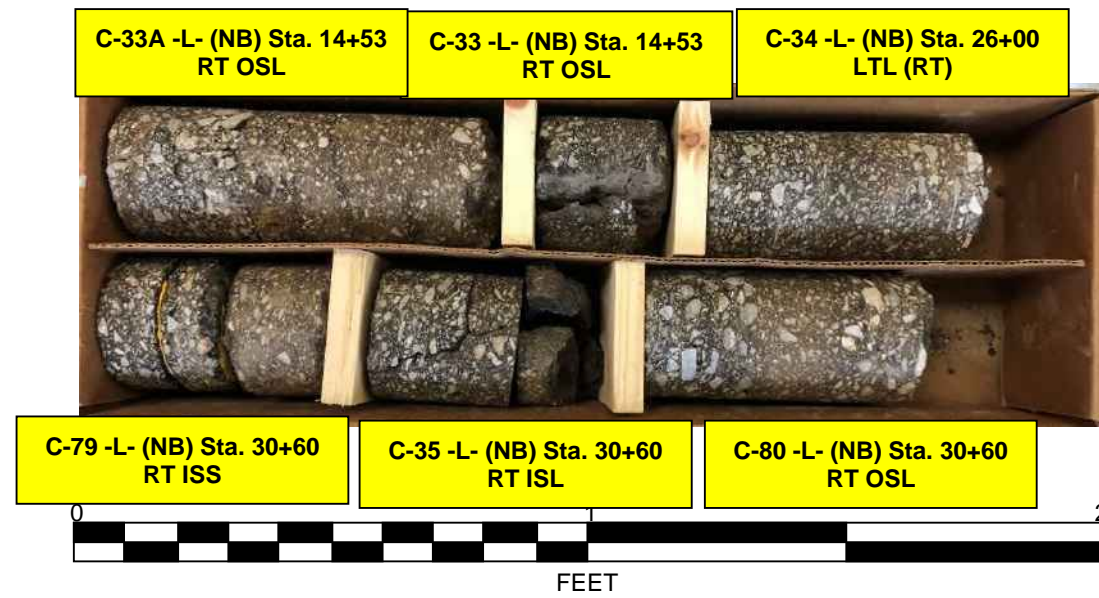
**R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40**  
**Pavement Core Photographs**





**R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40**

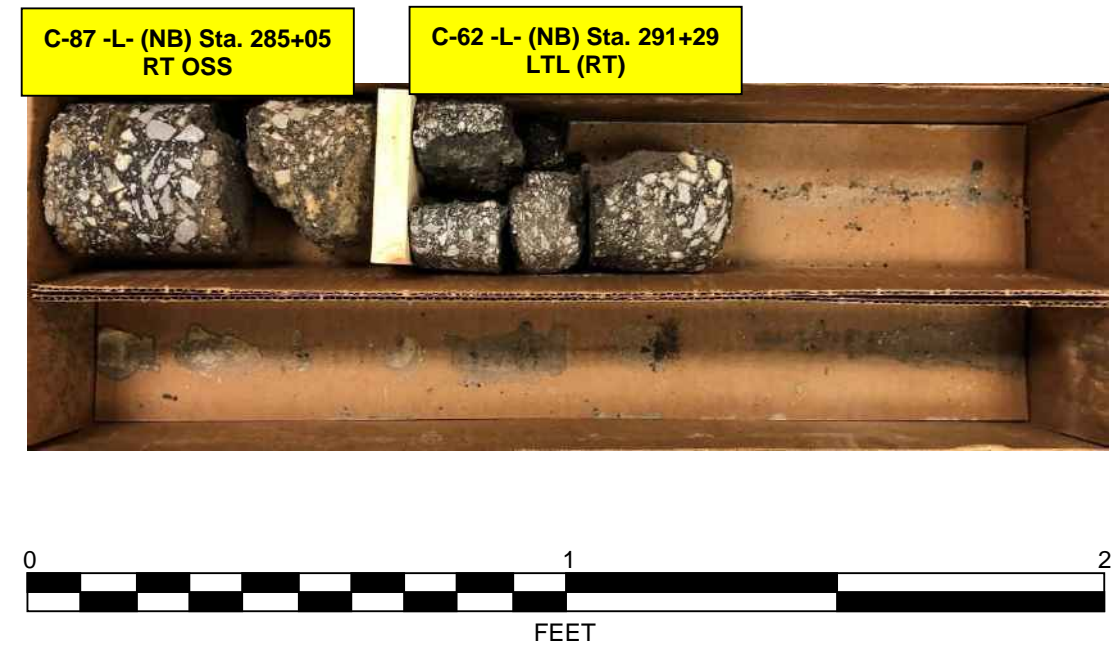
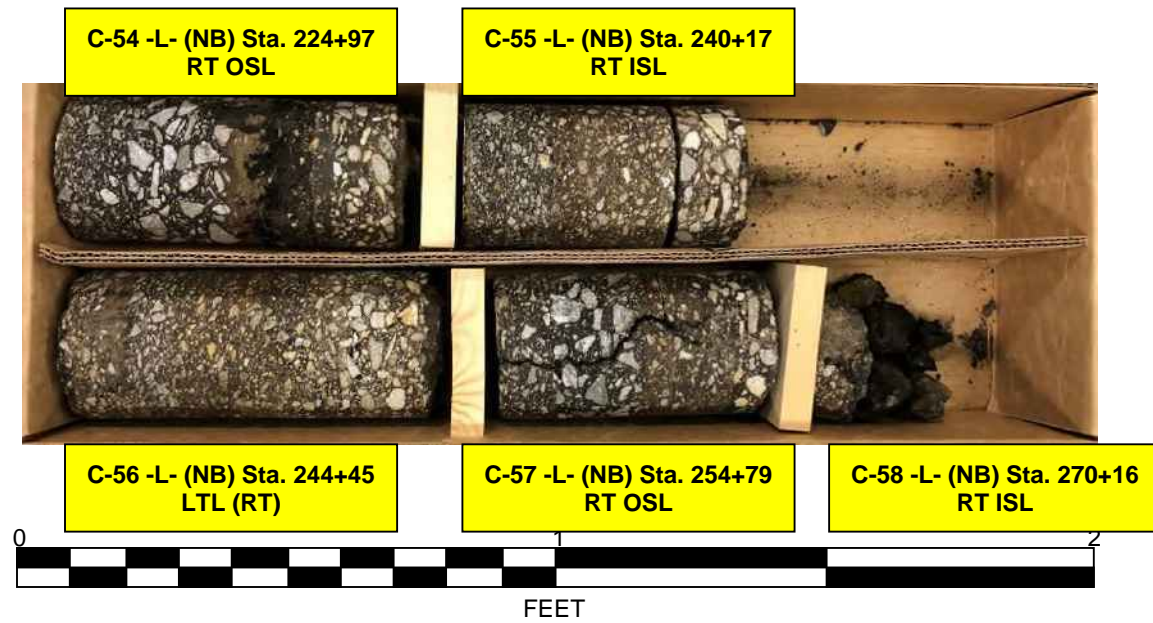
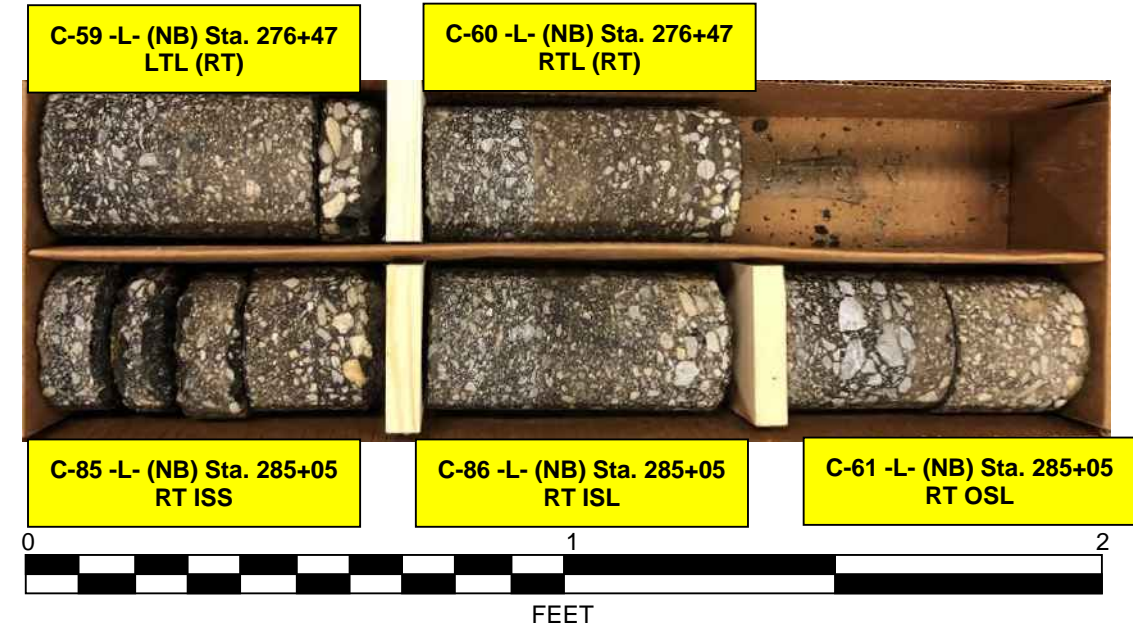
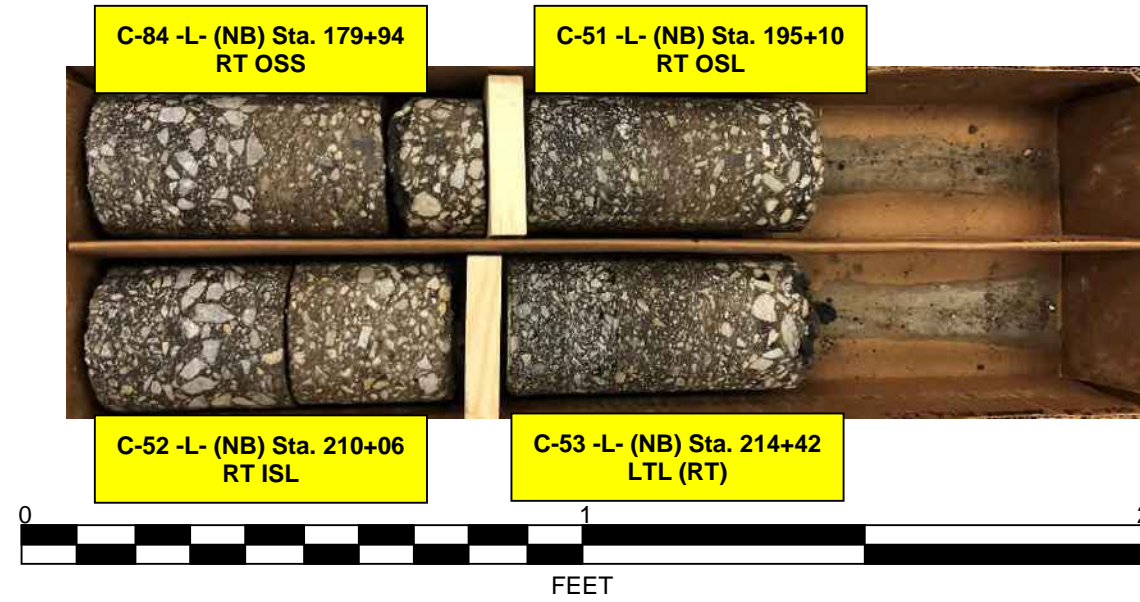
**Pavement Core Photographs**





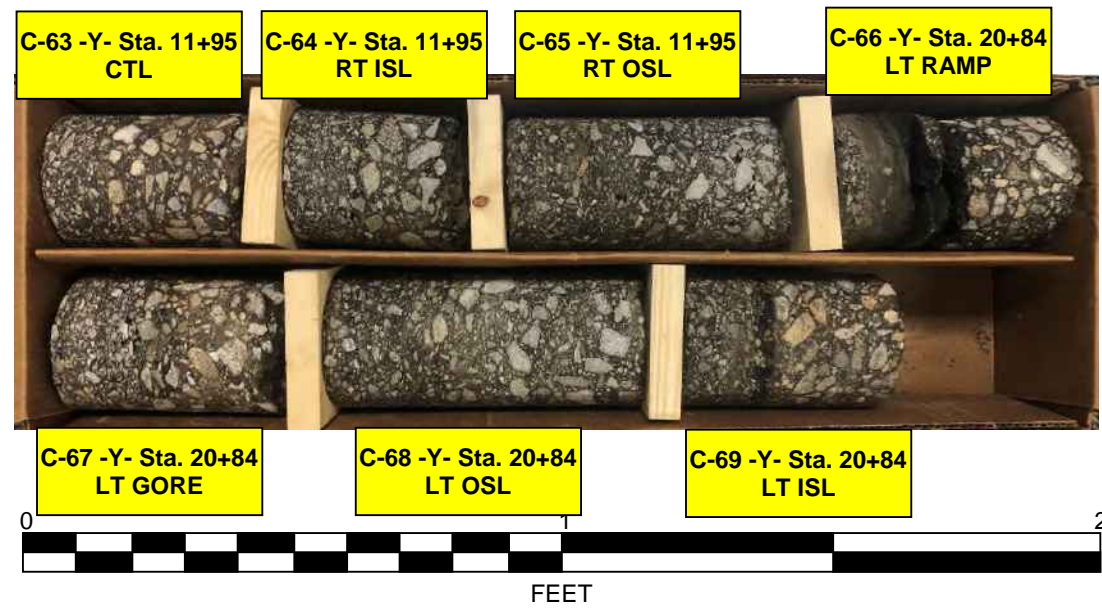
**R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40**

**Pavement Core Photographs**



**R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40**

**Pavement Core Photographs**





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

Project US 276 (Jonathan Creek Rd) from  
US 19 to 0.5-miles South of I-40 T.I.P. No. R-5921 County Haywood F&ME Job No. C8806 - Task 00023  
Date Received 12/30/2022 Date Reported 1/17/2023 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)			% MOISTURE	% ORGANIC
									C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-1	-L- (SB)	14+51	LT ISL	12.0 RT FY	1.3 - 5.0	A-4(0)	NP	NP	28.8%	24.4%	32.6%	14.2%	85.0%	69.1%	43.5%	20.1%	ND
S-3	-L- (SB)	27+71	LTL (LT)	4.0 RT FY	1.6 - 5.0	A-7-6(3)	43	14	25.1%	22.8%	29.7%	22.2%	74.2%	61.9%	42.1%	21.1%	ND
S-5	-L- (SB)	42+24	LT ISL	0.2 RT FY	1.3 - 5.0	A-4(0)	38	7	24.6%	25.7%	27.3%	22.4%	75.8%	64.4%	41.7%	22.3%	ND
S-6	-L- (SB)	59+19	LT OSL	0.6 LT FW	1.5 - 5.0	A-7-5(8)	49	14	19.0%	22.8%	27.4%	30.8%	93.0%	82.6%	58.7%	26.5%	ND
S-7	-L- (SB)	75+11	LT ISL	1.0 RT FY	1.4 - 5.0	A-4(0)	NP	NP	26.5%	30.0%	29.1%	14.4%	86.6%	73.7%	42.5%	23.6%	ND
S-8	-L- (SB)	89+64	LT OSL	0.2 LT FW	1.4 - 5.0	A-2-4	NP	NP	30.2%	40.2%	23.6%	6.0%	86.8%	70.7%	32.0%	10.8%	ND
S-10	-L- (SB)	103+04	LTL (LT)	4.5 RT FY	1.5 - 5.0	A-6(3)	38	11	22.0%	29.5%	30.4%	18.1%	88.7%	76.8%	48.2%	14.7%	ND
S-12	-L- (SB)	118+06	LTL (LT)	5.0 RT FY	1.4 - 3.0	A-7-6(4)	44	17	29.8%	27.8%	20.2%	22.2%	89.4%	71.2%	42.7%	22.8%	ND
S-13	-L- (SB)	135+54	RTL (LT)	5.0 LT FW	1.4 - 5.0	A-2-4	NP	NP	33.6%	33.7%	26.7%	6.0%	87.0%	67.9%	33.7%	11.9%	ND
S-15	-L- (SB)	150+00	LT OSL	3.3 LT FW	1.3 - 4.5	A-2-4	NP	NP	31.5%	42.8%	19.7%	6.0%	80.9%	67.3%	26.1%	4.5%	ND
S-16	-L- (SB)	159+00	LTL (LT)	5.0 RT FY	1.6 - 5.0	A-1-b	NP	NP	40.6%	29.3%	22.0%	8.1%	57.9%	41.9%	20.1%	9.0%	ND
S-18	-L- (SB)	163+96	LT ISL	0.5 RT FY	1.4 - 4.5	A-2-4	NP	NP	34.9%	31.8%	25.3%	8.0%	76.1%	59.4%	29.1%	13.4%	ND
S-20	-L- (SB)	195+11	LT ISL	2.0 RT FY	1.5 - 5.0	A-7-5(8)	51	21	24.2%	21.5%	23.9%	30.4%	87.1%	74.7%	50.7%	23.7%	ND
S-21	-L- (SB)	210+03	LT OSL	2.0 LT FW	1.0 - 5.0	A-2-4	39	5	34.5%	21.9%	23.1%	20.5%	73.3%	55.6%	34.5%	31.1%	ND
S-22	-L- (SB)	212+85	LTL (LT)	5.0 RT FY	1.3 - 5.0	A-4(0)	36	10	35.0%	26.0%	18.5%	20.5%	85.1%	66.0%	36.8%	23.3%	ND
S-24	-L- (SB)	225+02	LT ISL	3.0 RT FY	1.5 - 5.0	A-4(0)	NP	NP	32.1%	34.5%	21.3%	12.1%	93.5%	75.7%	37.1%	16.4%	ND
S-25	-L- (SB)	229+84	LTL (LT)	5.0 RT FY	1.5 - 5.0	A-2-4	NP	NP	30.4%	30.8%	24.6%	14.2%	67.6%	54.8%	30.2%	14.8%	ND
S-26	-L- (SB)	240+20	LT OSL	0.2 LT FW	1.4 - 5.0	A-4(0)	NP	NP	24.7%	34.7%	28.4%	12.2%	88.7%	77.2%	41.5%	19.0%	ND
S-27	-L- (SB)	245+89	LTL (LT)	4.0 RT FY	1.9 - 5.0	A-4(0)	NP	NP	21.7%	29.9%	26.2%	22.2%	96.2%	83.8%	52.0%	17.4%	ND
S-28	-L- (SB)	254+79	LT ISL	2.0 RT FY	1.5 - 5.0	A-4(0)	29	6	13.8%	35.7%	36.3%	14.2%	71.9%	66.4%	43.1%	18.7%	ND
S-29	-L- (SB)	270+18	LT OSL	3.0 LT FW	1.4 - 5.0	A-4(0)	NP	NP	26.7%	27.3%	25.7%	20.3%	85.7%	71.6%	44.2%	18.9%	ND
S-31	-L- (SB)	277+95	LTL (LT)	5.0 RT FY	1.7 - 5.0	A-7-6(7)	41	16	21.9%	22.6%	24.5%	31.0%	97.3%	84.0%	58.4%	22.0%	ND
S-33A	-L- (NB)	14+53	RT OSL	2.5 LT FW	1.6 - 5.0	A-2-4	32	8	28.8%	26.4%	22.6%	22.2%	63.8%	52.1%	31.7%	17.5%	ND
S-34	-L- (NB)	26+00	LTL (RT)	5.0 RT FY	1.4 - 3.0	A-7-6(12)	43	12	24.3%	26.3%	22.8%	26.6%	80.7%	68.9%	44.0%	20.8%	ND
S-36	-L- (NB)	42+23	LTL (RT)	7.0 RT FY	1.3 - 5.0	A-4(0)	NP	NP	26.0%	31.9%	27.9%	14.2%	92.8%	77.8%	45.9%	25.6%	ND
S-37	-L- (NB)	42+23	RT OSL	0.3 LT FW	3.0 - 5.0	A-4(0)	NP	NP	25.8%	30.6%	27.3%	16.3%	87.3%	73.2%	43.1%	20.3%	ND
S-39	-L- (NB)	59+19	RT ISL	5.0 RT FW	1.5 - 5.0	A-7-6(9)	46	18	18.5%	26.0%	27.0%	28.5%	95.5%	79.8%	57.6%	15.0%	ND
S-40	-L- (NB)	75+14	RT OSL	3.0 LT FW	1.5 - 5.0	A-4(0)	NP	NP	26.2%	30.1%	25.2%	18.5%	97.1%	81.7%	48.3%	20.5%	ND
S-41	-L- (NB)	89+63	RT ISL	0.6 RT FY	1.6 - 5.0	A-4(0)	NP	NP	25.7%	29.9%	26.2%	18.2%	73.0%	61.7%	36.7%	18.0%	ND
S-42	-L- (NB)	103+01	RT OSL	2.0 LT FW	1.6 - 5.0	A-2-4	NP	NP	26.9%	35.8%	25.2%	12.1%	76.2%	63.3%	33.1%	18.1%	ND
S-43	-L- (NB)	118+06	RT ISL	3.0 RT FY	1.4 - 5.0	A-4(0)	NP	NP	18.5%	29.0%	32.2%	20.3%	99.0%	88.4%	57.8%	26.9%	ND
S-44	-L- (NB)	133+92	LTL (RT)	5.0 RT FY	1.5 - 5.0	A-4(0)	NP	NP	17.3%	22.7%	43.8%	16.2%	88.2%	78.7%	57.1%	22.6%	ND
S-46	-L- (NB)	149+97	RT ISL	1.0 RT FY	1.6 - 4.0	A-7-5(6)	45	14	20.9%	29.5%	27.4%	22.2%	96.1%	84.2%	52.9%	17.9%	ND
S-47	-L- (NB)	157+91	LTL (RT)	7.0 RT FY	1.6 - 5.0	A-7-5(6)	56	24	24.4%	33.9%	25.3%	16.4%	87.8%	75.2%	42.2%	16.7%	ND
S-49	-L- (NB)	162+46	RT OSL	2.6 LT FW	1.5 - 5.0	A-1-b	NP	NP	40.7%	26.2%	25.1%	8.0%	64.5%	44.2%	24.9%	6.9%	ND
S-50	-L- (NB)	179+94	RT ISL	3.0 RT FW	1.9 - 5.0	A-4(0)	NP	NP	28.1%	28.5%	25.3%	18.1%	78.3%	63.5%	38.5%	20.0%	ND
S-51	-L- (NB)	195+10	RT OSL	0.3 RT FW	1.6 - 5.0	A-7-5(6)	53	21	21.2%	21.6%	24.9%	32.3%	71.7%	62.9%	44.1%	24.0%	ND
S-52	-L- (NB)	210+06	RT ISL	0.5 RT FY	1.5 - 5.0	A-4(0)	NP	NP	28.8%	32.1%	22.9%	16.2%	90.0%	74.7%	41.2%	20.9%	ND
S-54	-L- (NB)	224+97	RT OSL	3.0 LT FW	1.6 - 5.0	A-4(0)	NP	NP	24.5%	34.7%	22.7%	18.1%	93.3%	81.3%	44.3%	14.3%	ND
S-55	-L- (NB)	240+17	RT ISL	1.4 RT FY	1.6 - 5.0	A-4(0)	NP	NP	21.0%	30.8%	27.7%	20.5%	79.2%	70.2%	42.9%	17.8%	ND
S-59	-L- (NB)	276+47	LTL (RT)	5.3 RT FY	1.3 - 5.0	A-4(0)	31	8	27.6%	29.0%	25.3%	18.1%	75.9%	62.6%	37.2%	10.2%	ND

Prepared in the Office of:

**F&ME CONSULTANTS, INC.**  
**COLUMBIA, SOUTH CAROLINA**  
**NCDOT LAB CERT. NO. 130-0212**

R-5921

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

Project US 276 (Jonathan Creek Rd) from  
US 19 to 0.5-miles South of I-40 T.I.P. No. R-5921 County Haywood F&ME Job No. C8806 - Task 00023  
Date Received 12/30/2022 Date Reported 1/17/2023 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)			% MOISTURE	% ORGANIC
									C. SAND	F. SAND	SILT	CLAY	10	40	200		
S-60	-L- (NB)	276+47	RTL (RT)	4.0 LT FW	1.5 - 5.0	A-4(0)	NP	NP	23.8%	27.0%	24.9%	24.3%	98.8%	84.4%	54.8%	22.2%	ND
S-64	-Y-	11+95	RT ISL	6.0 RT FY	1.4 - 5.0	A-4(0)	NP	NP	21.9%	30.0%	25.4%	22.7%	99.1%	88.5%	53.1%	27.8%	ND
S-68	-Y-	20+84	LT OSL	6.0 LT FW	1.8 - 3.0	A-2-4	32	9	24.2%	28.9%	24.6%	22.3%	62.0%	53.2%	32.7%	19.0%	ND
S-71	-L- (SB)	30+64	LT ISL	3.0 RT FY	1.4 - 5.0	A-4(0)	NP	NP	26.3%	30.2%	31.2%	12.3%	95.5%	79.2%	48.1%	19.5%	ND
S-74	-L- (SB)	179+97	LT ISL	0.3 RT FY	3.0 - 5.0	A-4(0)	NP	NP	22.9%	31.6%	27.4%	8.1%	97.0%	77.2%	39.5%	19.9%	ND
S-75	-L- (SB)	179+97	LT ISS	0.3 RT FY	1.4 - 3.0	A-4(0)	NP	NP	34.2%	31.2%	24.5%	10.1%	95.1%	74.5%	38.4%	20.7%	ND
S-77	-L- (SB)	285+03	LT OSL	3.0 LT EOP	1.3 - 5.0	A-6(12)	38	8	21.2%	31.2%	31.4%	16.2%	90.9%	78.5%	48.6%	23.0%	ND
S-78	-L- (SB)	285+03	LT ISS	0.5 RT FW	1.3 - 5.0	A-4(0)	NP	NP	22.4%	31.4%	27.8%	18.4%	95.0%	83.7%	49.8%	25.0%	ND
S-79	-L- (NB)	30+60	RT ISS	0.2 RT FY	1.3 - 3.0	A-6(2)	33	11	31.3%	24.9%	23.5%	20.3%	94.8%	73.4%	46.3%	15.5%	ND
S-81	-L- (NB)	30+60	RT OSS	0.5 RT FW	1.5 - 5.0	A-6(2)	40	15	29.9%	22.8%	21.0%	26.3%	77.2%	61.4%	40.3%	17.5%	ND
S-86	-L- (NB)	285+05	RT ISL	5.0 RT FY	1.3 - 5.0	A-4(0)	NP	NP	26.6%	29.7%	29.6%	14.1%	82.8%	69.0%	41.5%	8.2%	ND
S-106	-L-	37+50	LT Median	9.0 LT FY	0.0 - 5.0	A-7-6(5)	42	14	24.4%	22.7%	26.2%	26.7%	87.6%	73.5%	50.5%	21.4%	ND
S-111	-L-	66+99	LT Median	3.0 LT FY	0.0 - 4.5	A-7-6(14)	46	11	23.4%	26.4%	21.0%	29.2%	85.5%	73.0%	47.2%	29.7%	ND
S-114A	-L-	82+00	LT Median	8.0 LT FY	0.0 - 3.0	A-7-5(11)	47	17	10.4%	16.8%	25.9%	46.9%	88.3%	83.3%	67.5%	24.6%	ND
S-115	-L-	82+50	RT Shoulder	2.0 RT FW	3.0 - 4.0	A-7-5(8)	53	19	17.2%	23.8%	20.1%	38.9%	81.5%	73.2%	51.8%	30.8%	ND
S-124	-L-	138+00	LT Median	7.0 LT FY	0.0 - 5.0	A-2-4	NP	NP	31.1%	36.2%	20.3%	12.4%	74.6%	60.8%	28.4%	27.1%	ND
S-137	-L-	196+00	RT Median	4.5 LT FY	1.5 - 2.8	A-7-5(9)	48	18	22.7%	22.0%	22.8%	32.5%	97.8%	84.4%	58.3%	23.4%	ND
S-140	-L-	203+00	LT Median	9.0 LT FY	0.0 - 5.0	A-4(0)	33	7	26.6%	26.4%	18.7%	28.3%	68.1%	57.7%	35.0%	27.1%	ND
S-153	-L-	274+00	RT Median	4.0 LT FY	0.0 - 5.0	A-6(1)	38	11	25.8%	28.9%	23.0%	22.3%	78.2%	66.0%	39.9%	17.5%	ND



R-5921

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

US 276 (Jonathan Creek Rd) from  
**Project** US 19 to 0.5-miles South of I-40      **T.I.P. No.** R-5921      **County** Haywood      **F&ME Job No.** C8806 - Task 00023  
**Date Received** 3/17/2023      **Date Reported** 4/24/2023      **Tested By** F&ME      **CERT No.:** 130-0212

**SOIL TEST RESULTS**

SAMPLE NO.	ALIGNMENT	STATION	OFFSET (ft.)	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
								C. SAND	F. SAND	SILT	CLAY	10	40	200		
Bulk-1	-L-	60+22	82 RT	0.0 - 5.0	A-4(0)	31	6	26.2%	33.8%	25.9%	14.1%	76.5%	64.4%	35.9%	9.7%	ND
Bulk-2	-L-	112+62	61 LT	1.0 - 3.0	A-2-4	35	7	27.9%	28.7%	21.2%	22.2%	67.8%	55.6%	32.9%	9.9%	ND
Bulk-3	-L-	186+72	80 RT	1.0 - 8.0	A-7-5(5)	44	11	23.3%	23.9%	20.5%	32.3%	98.7%	85.1%	56.0%	25.9%	ND
Bulk-4	-L-	282+95	71 LT	1.0 - 3.0	A-6(3)	39	12	23.5%	22.7%	21.5%	32.3%	84.0%	71.3%	48.7%	17.9%	ND

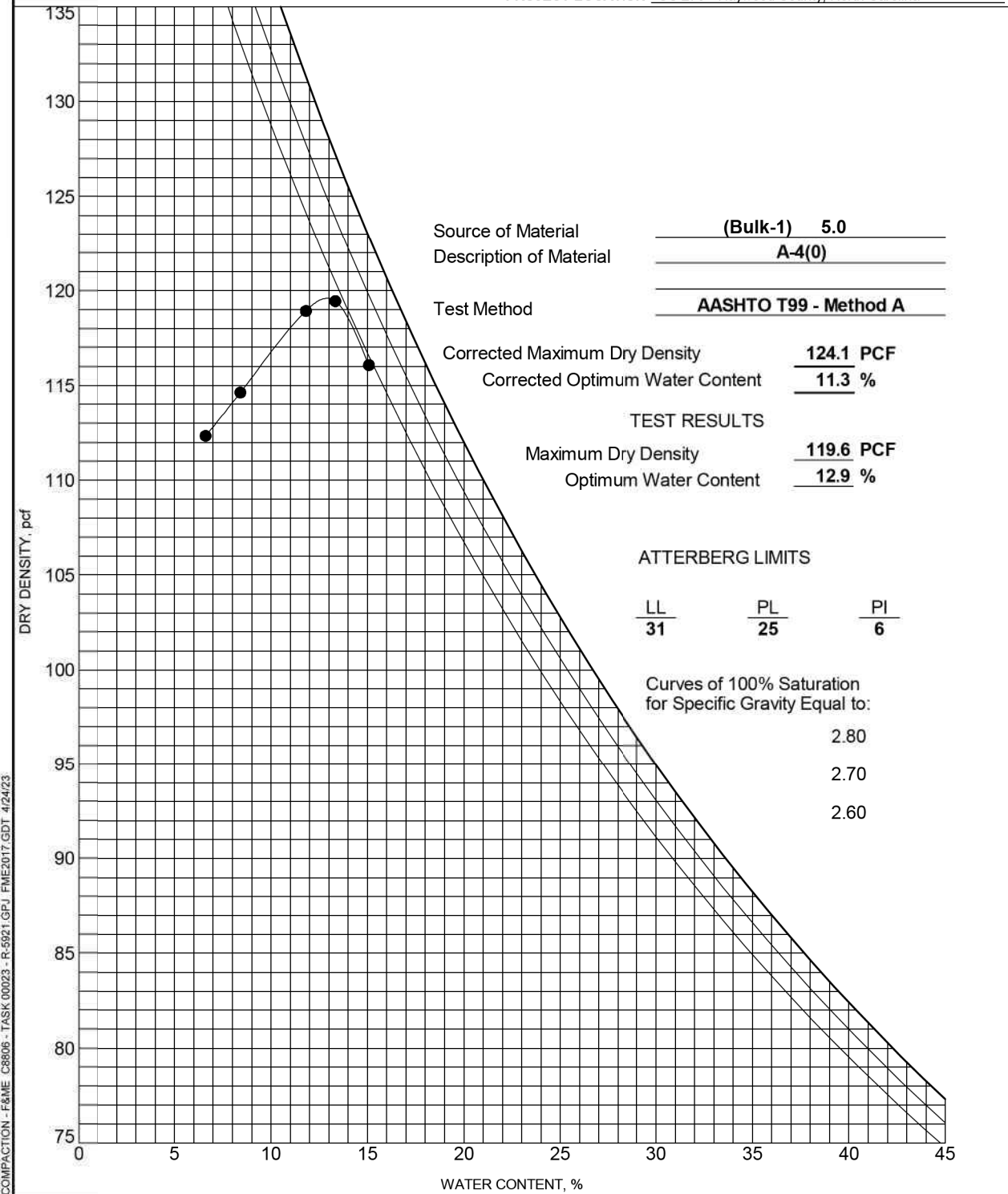


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID R-5921 (FME Project No.: C8806 - Task 00023)

PROJECT NAME US 276 from US 19 to 0.5 mi South of I-40

PROJECT LOCATION US 276 - Haywood County, North Carolina



Source of Material (Bulk-1) 5.0

Description of Material A-4(0)

Test Method AASHTO T99 - Method A

Corrected Maximum Dry Density 124.1 PCF

Corrected Optimum Water Content 11.3 %

TEST RESULTS

Maximum Dry Density 119.6 PCF

Optimum Water Content 12.9 %

ATTERBERG LIMITS

LL	PL	PI
31	25	6

Curves of 100% Saturation for Specific Gravity Equal to:

2.80  
2.70  
2.60

COMPACTION - F&ME - TASK 00023 - R-5921.CPJ FME2017.GDT 4/24/23



REV 01/2023

**CALIFORNIA BEARING RATIO (CBR)  
AASHTO T193**

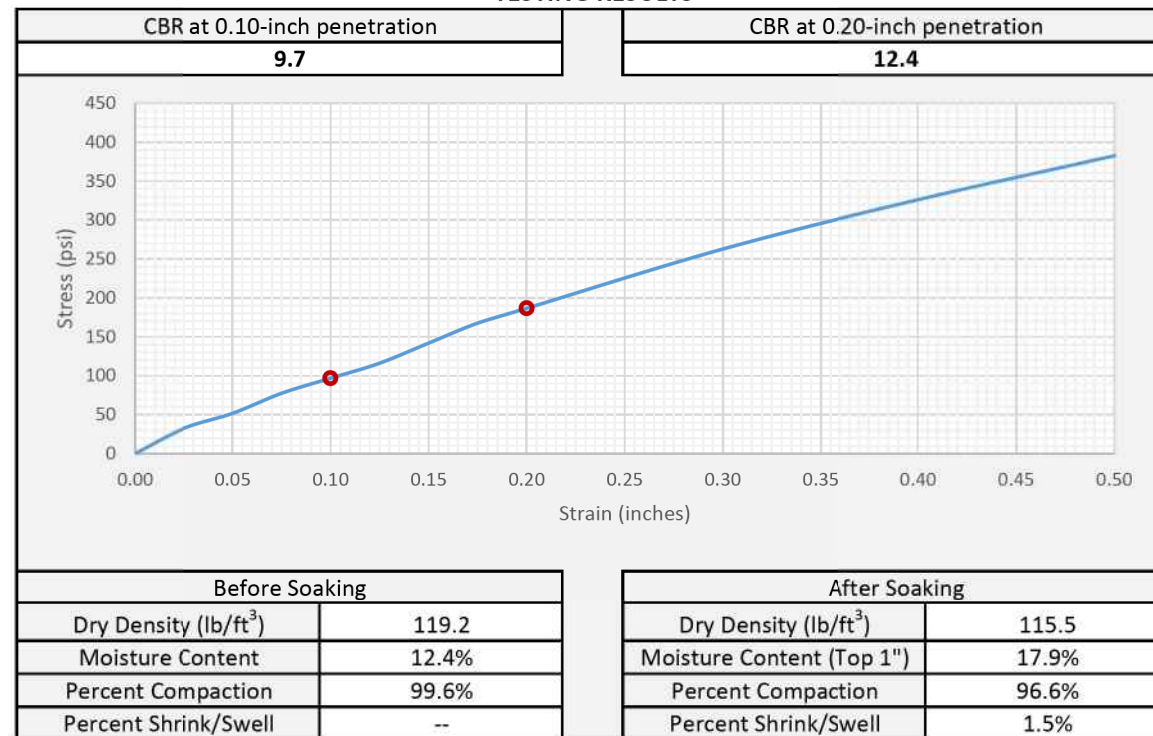
**SAMPLE INFORMATION**

Project Name	R-5921 (US 276)		Project No.	C8806	
Sample Location	Bulk-1 (Specimen A)		FME Lab ID	23-0775	
Soil Description	A-4(0)		Depth/Elev.	0.0 - 5.0	
Date Sampled	--	Sampled By:	FME	Date Received	3/17/23
Date Test Began	3/23/23	Date Completed	3/27/23	Tested By	DH & CM

**MOLDING CHARACTERISTICS**

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft <sup>3</sup> )	119.6	Optimum Moisture Content (%)	12.9
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

**TESTING RESULTS**



**ADDITIONAL COMMENTS**

Desired Percent Compaction = 100%

**F&ME Consultants, Inc.**  
211 Business Park Blvd., Columbia, SC 29203

*Jerry P. Davis*  
Reviewed By \_\_\_\_\_ Date 4/25/23

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REV 01/2023

**CALIFORNIA BEARING RATIO (CBR)  
AASHTO T193**

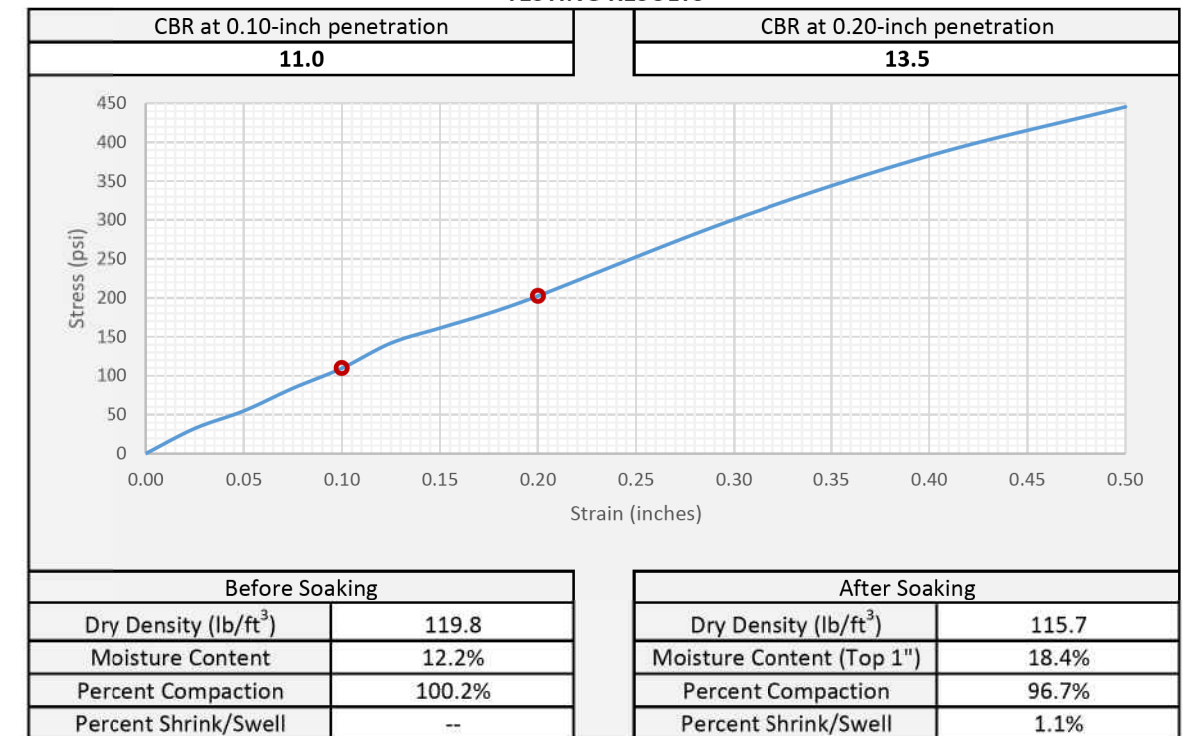
**SAMPLE INFORMATION**

Project Name	R-5921 (US 276)		Project No.	C8806	
Sample Location	Bulk-1 (Specimen B)		FME Lab ID	23-0775	
Soil Description	A-4(0)		Depth/Elev.	0.0 - 5.0	
Date Sampled	--	Sampled By:	FME	Date Received	3/17/23
Date Test Began	3/23/23	Date Completed	3/27/23	Tested By	DH & CM

**MOLDING CHARACTERISTICS**

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft <sup>3</sup> )	119.6	Optimum Moisture Content (%)	12.9
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

**TESTING RESULTS**



**ADDITIONAL COMMENTS**

Desired Percent Compaction = 100%

**F&ME Consultants, Inc.**  
211 Business Park Blvd., Columbia, SC 29203

*Jerry P. Davis*  
Reviewed By \_\_\_\_\_ Date 4/25/23

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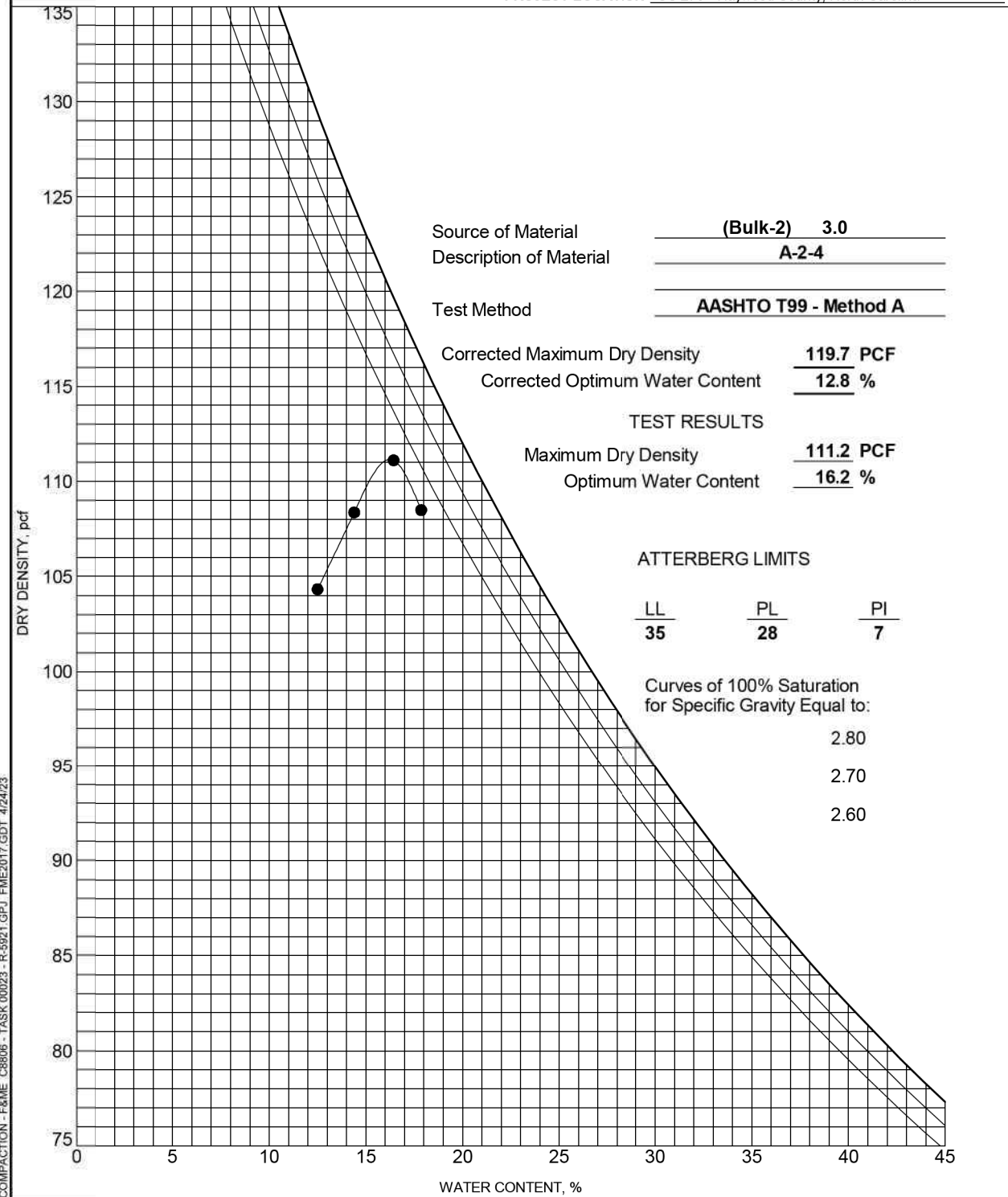


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID R-5921 (FME Project No.: C8806 - Task 00023)

PROJECT NAME US 276 from US 19 to 0.5 mi South of I-40

PROJECT LOCATION US 276 - Haywood County, North Carolina



COMPACTION - F&ME C8806 - TASK 00023 - R-5921.CPJ FME2017.GDT 4/24/23



REV 01/2023

**CALIFORNIA BEARING RATIO (CBR)  
AASHTO T193**

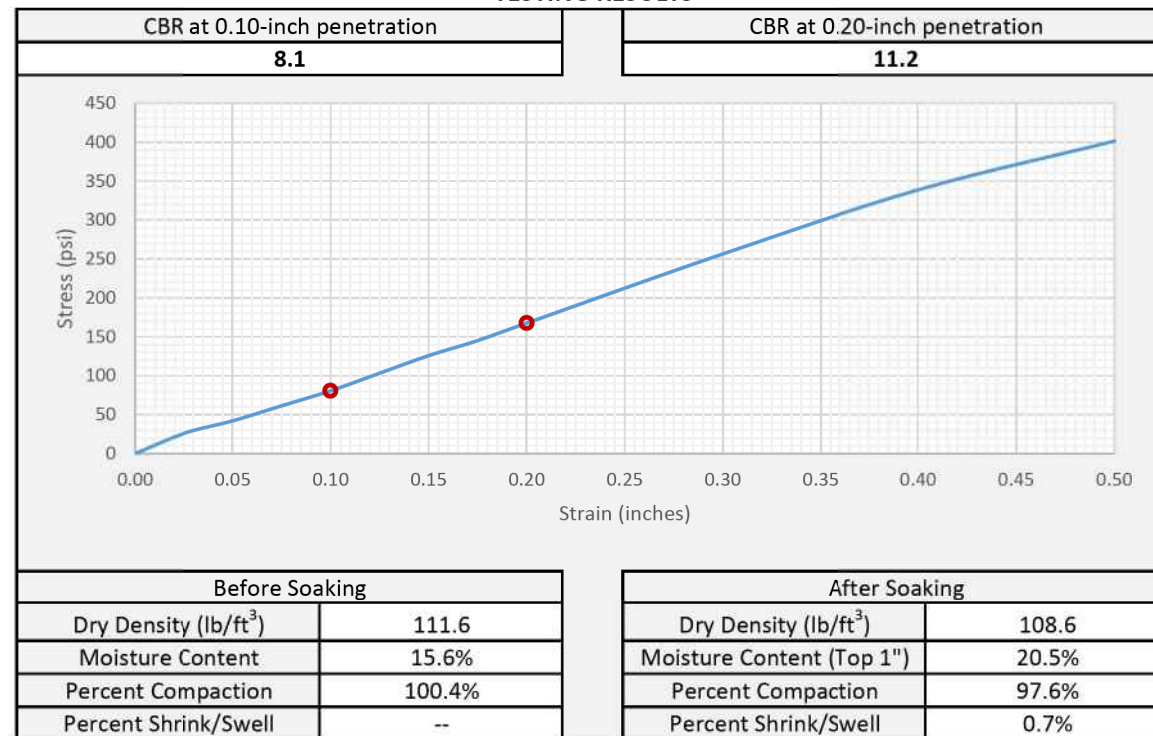
**SAMPLE INFORMATION**

Project Name	R-5921 (US 276)		Project No.	C8806	
Sample Location	Bulk-2 (Specimen A)		FME Lab ID	23-0776	
Soil Description	A-2-4		Depth/Elev.	1.0 - 3.0	
Date Sampled	--	Sampled By:	FME	Date Received	3/17/23
Date Test Began	3/23/23	Date Completed	3/27/23	Tested By	DH & CM

**MOLDING CHARACTERISTICS**

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft <sup>3</sup> )	111.2	Optimum Moisture Content (%)	16.2
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

**TESTING RESULTS**



**ADDITIONAL COMMENTS**

Desired Percent Compaction = 100%

**F&ME Consultants, Inc.**  
211 Business Park Blvd., Columbia, SC 29203

*Jerry P. Davis*  
Reviewed By \_\_\_\_\_ Date 4/25/23

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REV 01/2023

**CALIFORNIA BEARING RATIO (CBR)  
AASHTO T193**

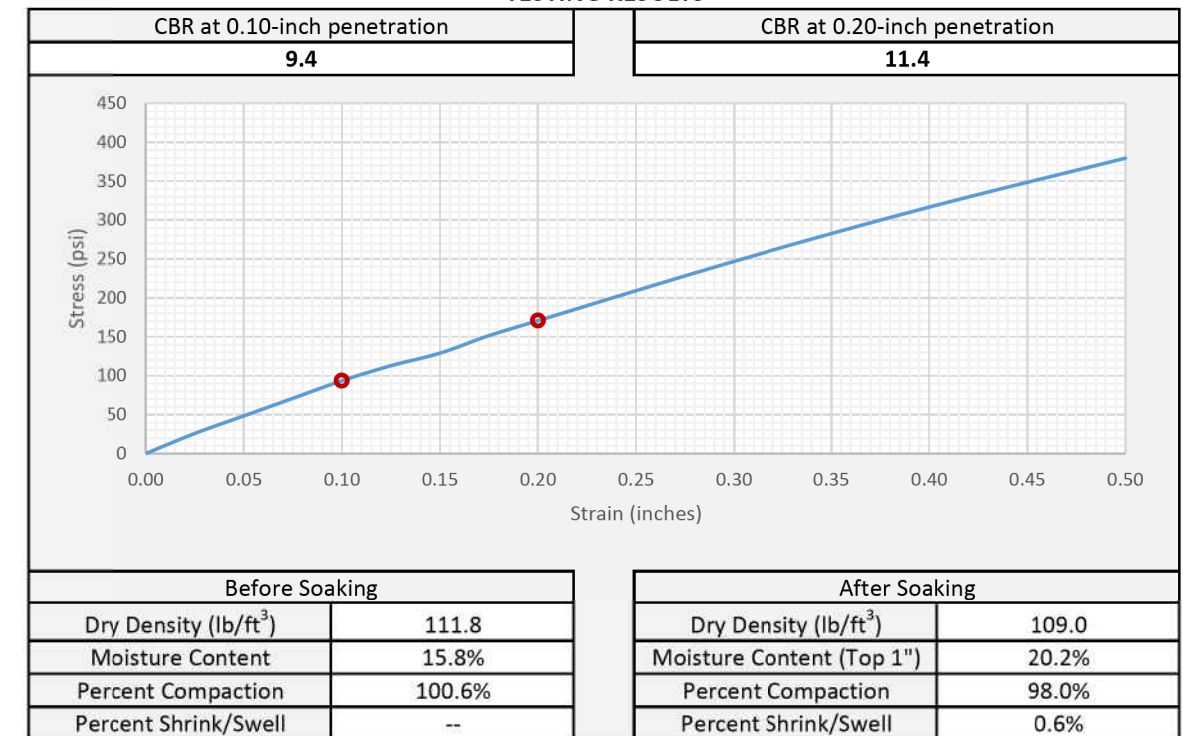
**SAMPLE INFORMATION**

Project Name	R-5921 (US 276)		Project No.	C8806	
Sample Location	Bulk-2 (Specimen B)		FME Lab ID	23-0776	
Soil Description	A-2-4		Depth/Elev.	1.0 - 3.0	
Date Sampled	--	Sampled By:	FME	Date Received	3/17/23
Date Test Began	3/23/23	Date Completed	3/27/23	Tested By	DH & CM

**MOLDING CHARACTERISTICS**

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft <sup>3</sup> )	111.2	Optimum Moisture Content (%)	16.2
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

**TESTING RESULTS**



**ADDITIONAL COMMENTS**

Desired Percent Compaction = 100%

**F&ME Consultants, Inc.**  
211 Business Park Blvd., Columbia, SC 29203

*Jerry P. Davis*  
Reviewed By \_\_\_\_\_ Date 4/25/23

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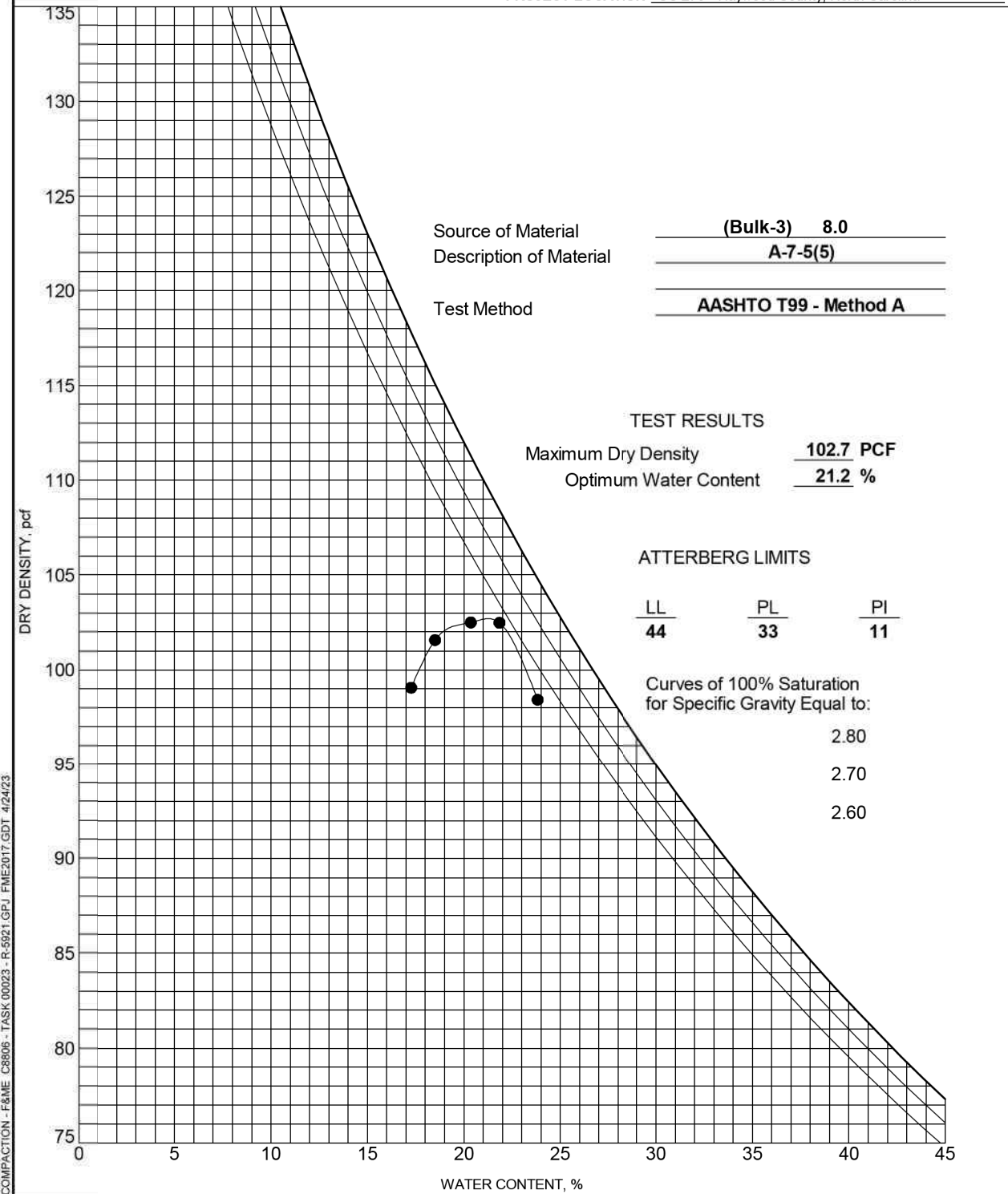


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID R-5921 (FME Project No.: C8806 - Task 00023)

PROJECT NAME US 276 from US 19 to 0.5 mi South of I-40

PROJECT LOCATION US 276 - Haywood County, North Carolina



COMPACTION - F&ME\_C8806 - TASK 00023 - R-5921.CPJ\_FME2017.GDT\_4/24/23



REV 01/2023

**CALIFORNIA BEARING RATIO (CBR)  
AASHTO T193**

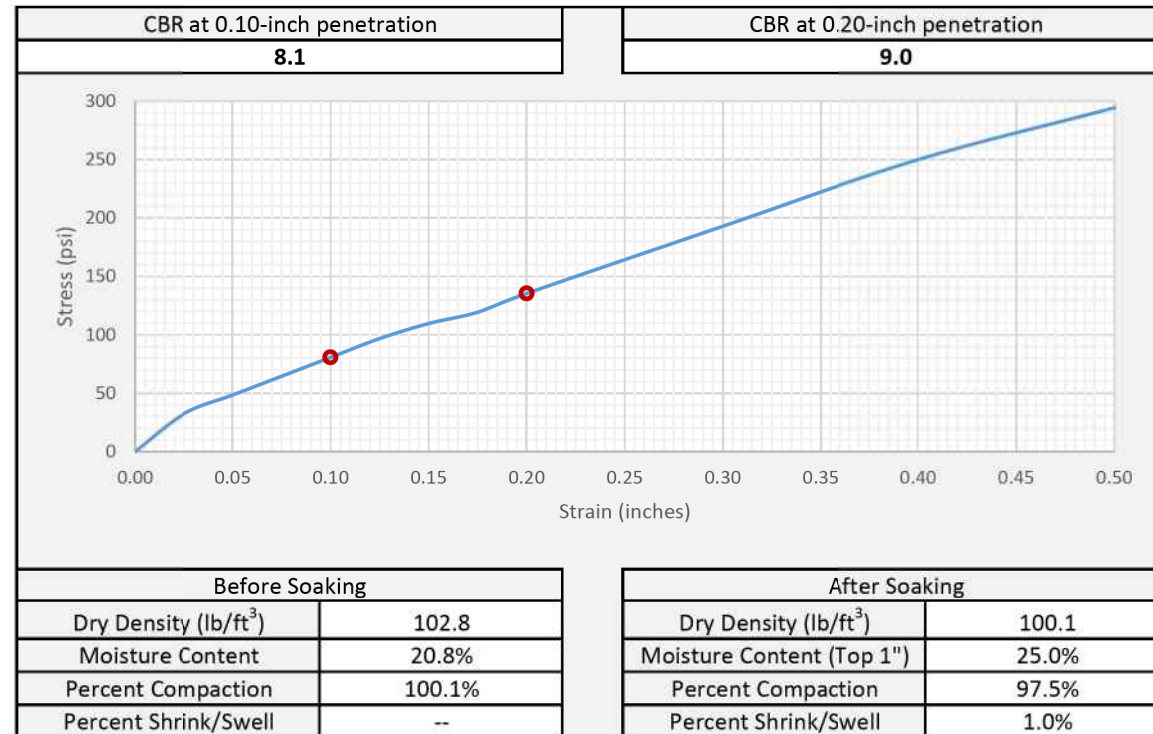
**SAMPLE INFORMATION**

Project Name	R-5921 (US 276)		Project No.	C8806 - Task 00023	
Sample Location	Bulk-3 (Specimen A)		FME Lab ID	23-0776	
Soil Description	A-7-5(5)		Depth/Elev.	1.0 - 8.0	
Date Sampled	--	Sampled By:	FME	Date Received	3/17/23
Date Test Began	3/23/23	Date Completed	3/27/23	Tested By	DH & CM

**MOLDING CHARACTERISTICS**

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft <sup>3</sup> )	102.7	Optimum Moisture Content (%)	21.2
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

**TESTING RESULTS**



**ADDITIONAL COMMENTS**

Desired Percent Compaction = 100%

 <p><b>F&amp;ME Consultants, Inc.</b> 211 Business Park Blvd., Columbia, SC 29203</p>	 Reviewed By _____	4/25/23 Date
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REV 01/2023

**CALIFORNIA BEARING RATIO (CBR)  
AASHTO T193**

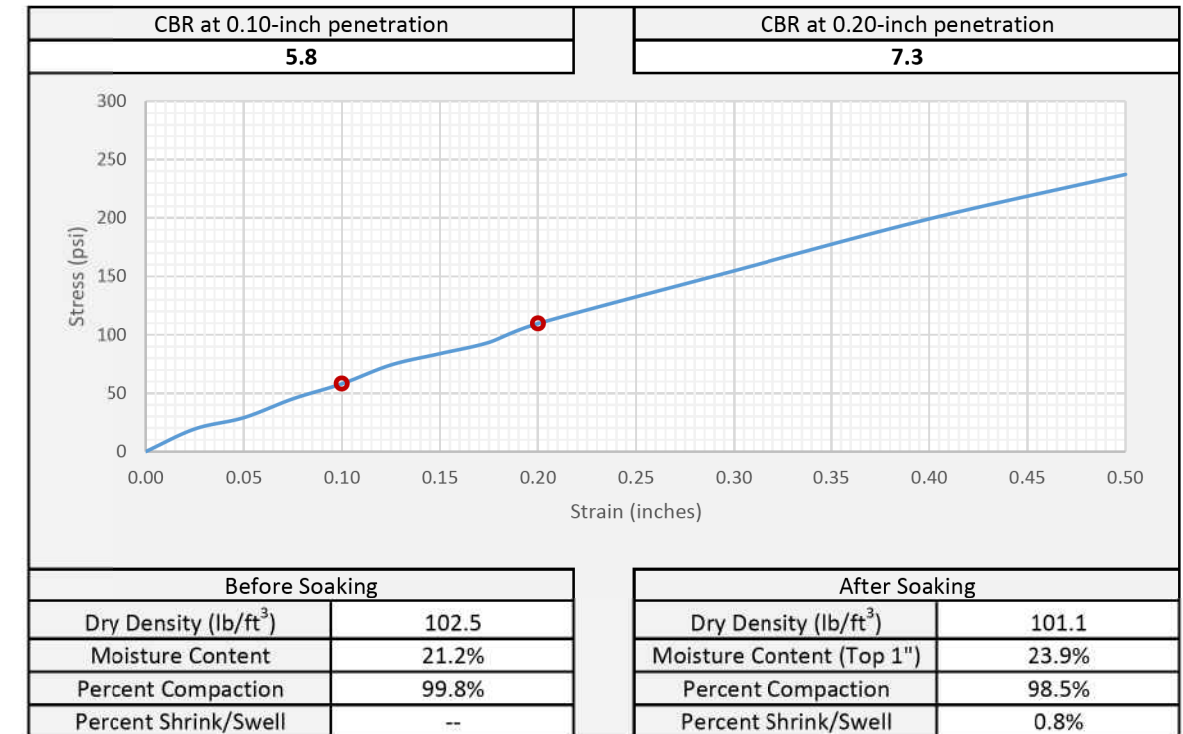
**SAMPLE INFORMATION**

Project Name	R-5921 (US 276)		Project No.	C8806 - Task 00023	
Sample Location	Bulk-3 (Specimen B)		FME Lab ID	23-0776	
Soil Description	A-7-5(5)		Depth/Elev.	1.0 - 8.0	
Date Sampled	--	Sampled By:	FME	Date Received	3/17/23
Date Test Began	4/14/23	Date Completed	4/18/23	Tested By	JJ

**MOLDING CHARACTERISTICS**


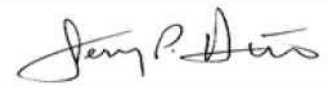
Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft <sup>3</sup> )	102.7	Optimum Moisture Content (%)	21.2
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

**TESTING RESULTS**



**ADDITIONAL COMMENTS**

Desired Percent Compaction = 100%

 <p><b>F&amp;ME Consultants, Inc.</b> 211 Business Park Blvd., Columbia, SC 29203</p>	 Reviewed By _____	4/25/23 Date
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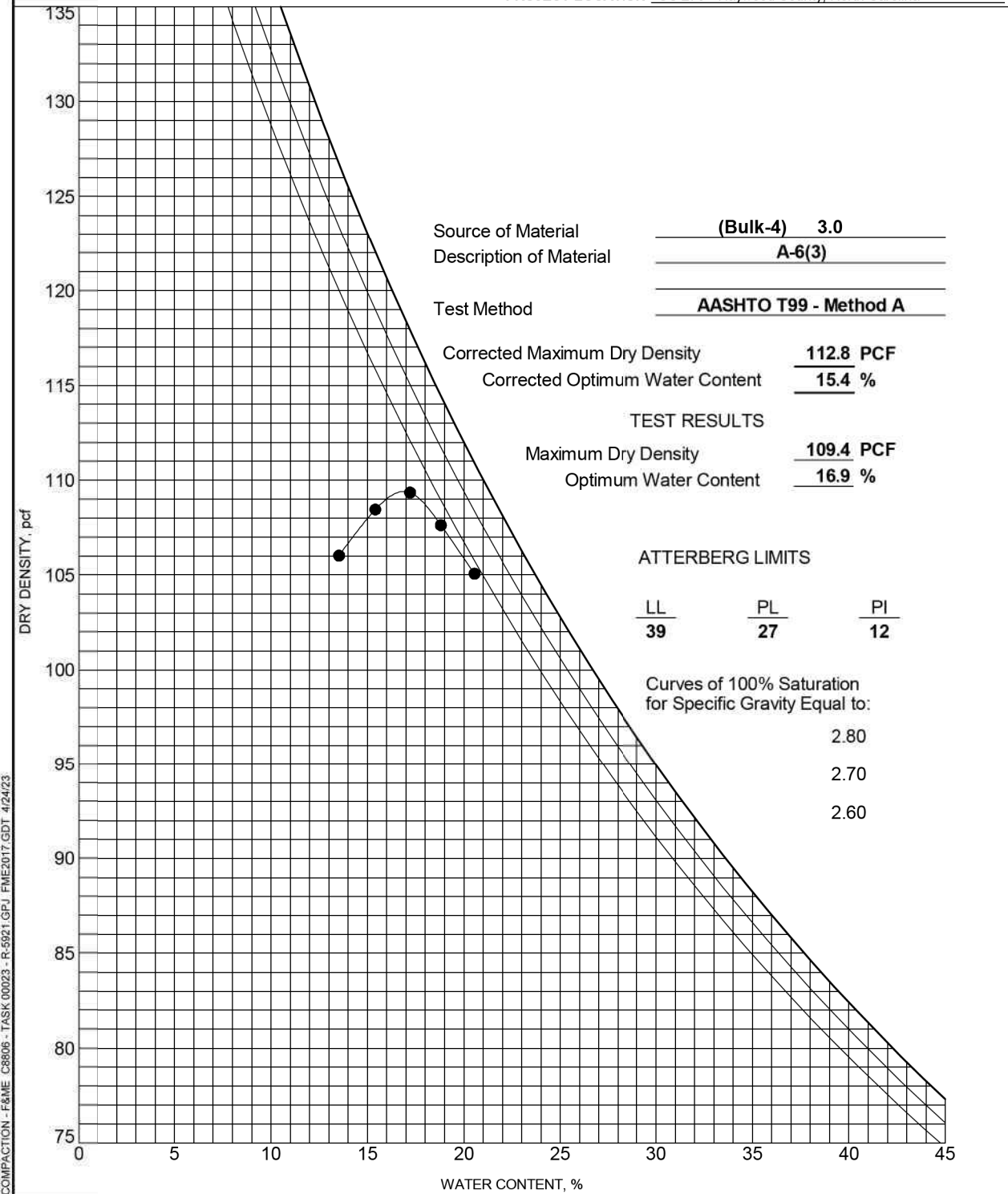


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID R-5921 (FME Project No.: C8806 - Task 00023)

PROJECT NAME US 276 from US 19 to 0.5 mi South of I-40

PROJECT LOCATION US 276 - Haywood County, North Carolina



COMPACTION - F&ME C8806 - TASK 00023 - R-5921.CPJ FME2017.GDT 4/24/23



REV 01/2023

**CALIFORNIA BEARING RATIO (CBR)  
AASHTO T193**

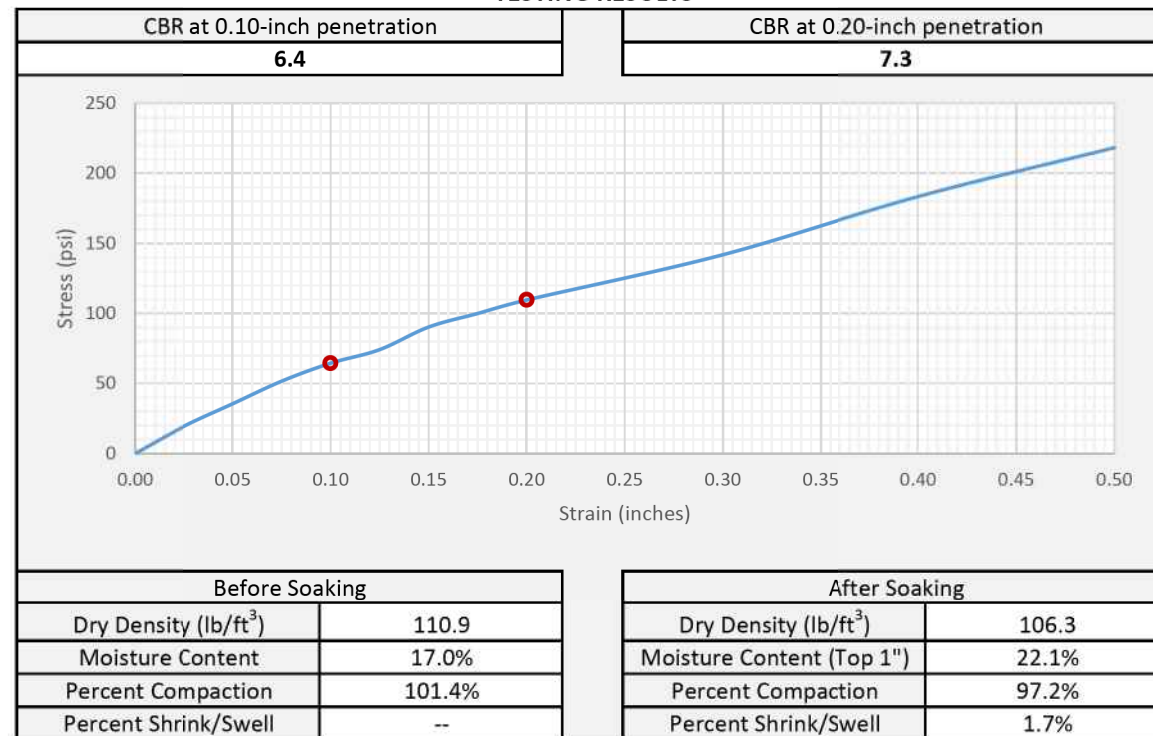
**SAMPLE INFORMATION**

Project Name	R-5921 (US 276)		Project No.	C8806 - Task 00023	
Sample Location	Bulk-4 (Specimen A)		FME Lab ID	23-0778	
Soil Description	A-6(3)		Depth/Elev.	1.0 - 3.0	
Date Sampled	--	Sampled By:	FME	Date Received	3/17/23
Date Test Began	3/30/23	Date Completed	4/3/23	Tested By	DH & CM

**MOLDING CHARACTERISTICS**

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft <sup>3</sup> )	109.4	Optimum Moisture Content (%)	16.9
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

**TESTING RESULTS**



**ADDITIONAL COMMENTS**

Desired Percent Compaction = 100%

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Reviewed By \_\_\_\_\_ Date 4/24/23

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**CALIFORNIA BEARING RATIO (CBR)  
AASHTO T193**

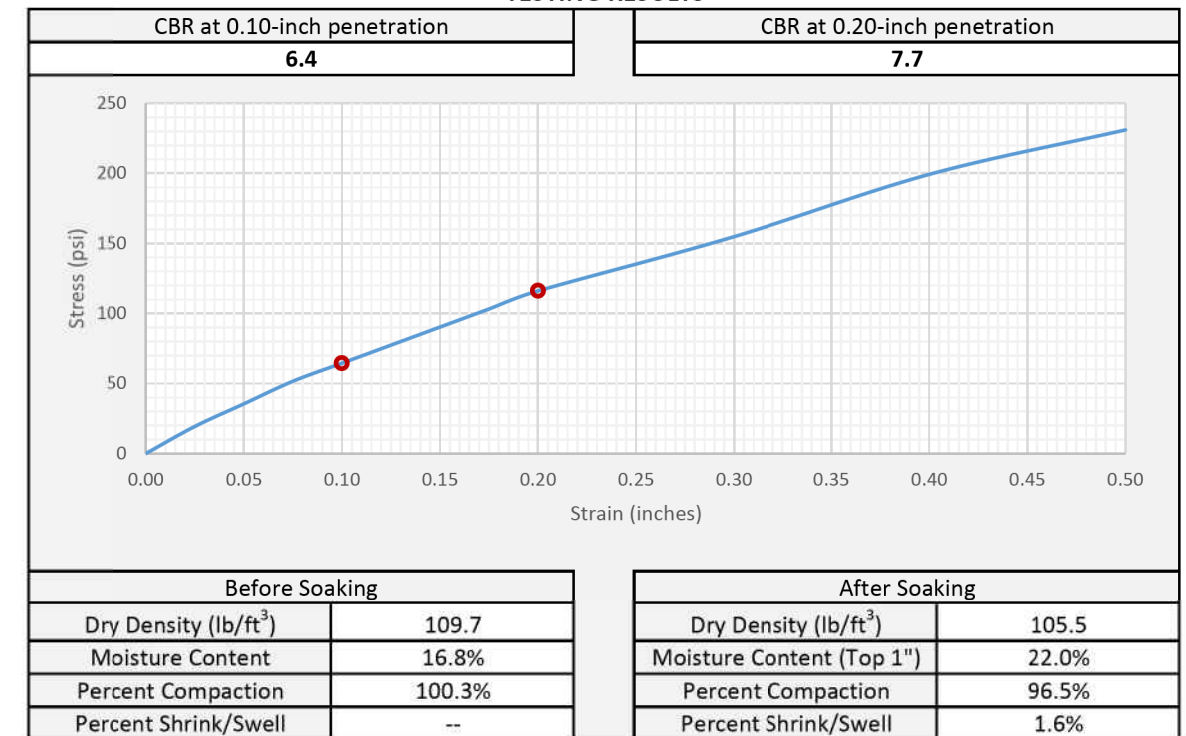
**SAMPLE INFORMATION**

Project Name	R-5921 (US 276)		Project No.	C8806 - Task 00023	
Sample Location	Bulk-4 (Specimen B)		FME Lab ID	23-0778	
Soil Description	A-6(3)		Depth/Elev.	1.0 - 3.0	
Date Sampled	--	Sampled By:	FME	Date Received	3/17/23
Date Test Began	3/30/23	Date Completed	4/3/23	Tested By	DH & CM

**MOLDING CHARACTERISTICS**

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft <sup>3</sup> )	109.4	Optimum Moisture Content (%)	16.9
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

**TESTING RESULTS**



**ADDITIONAL COMMENTS**

Desired Percent Compaction = 100%

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