

REFERENCE: R-5921

PROJECT: 48470

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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

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.

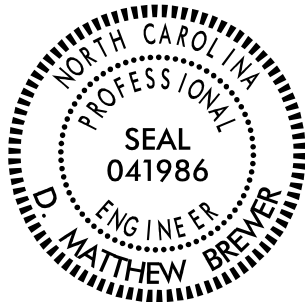
DATE OCTOBER 2023

Prepared in the Office of:



CAROLINAS
GEOTECHNICAL
GROUP

2400 CROWNPOINT EXECUTIVE DRIVE
SUITE 800
CHARLOTTE, NC 28227
(980) 339-8684



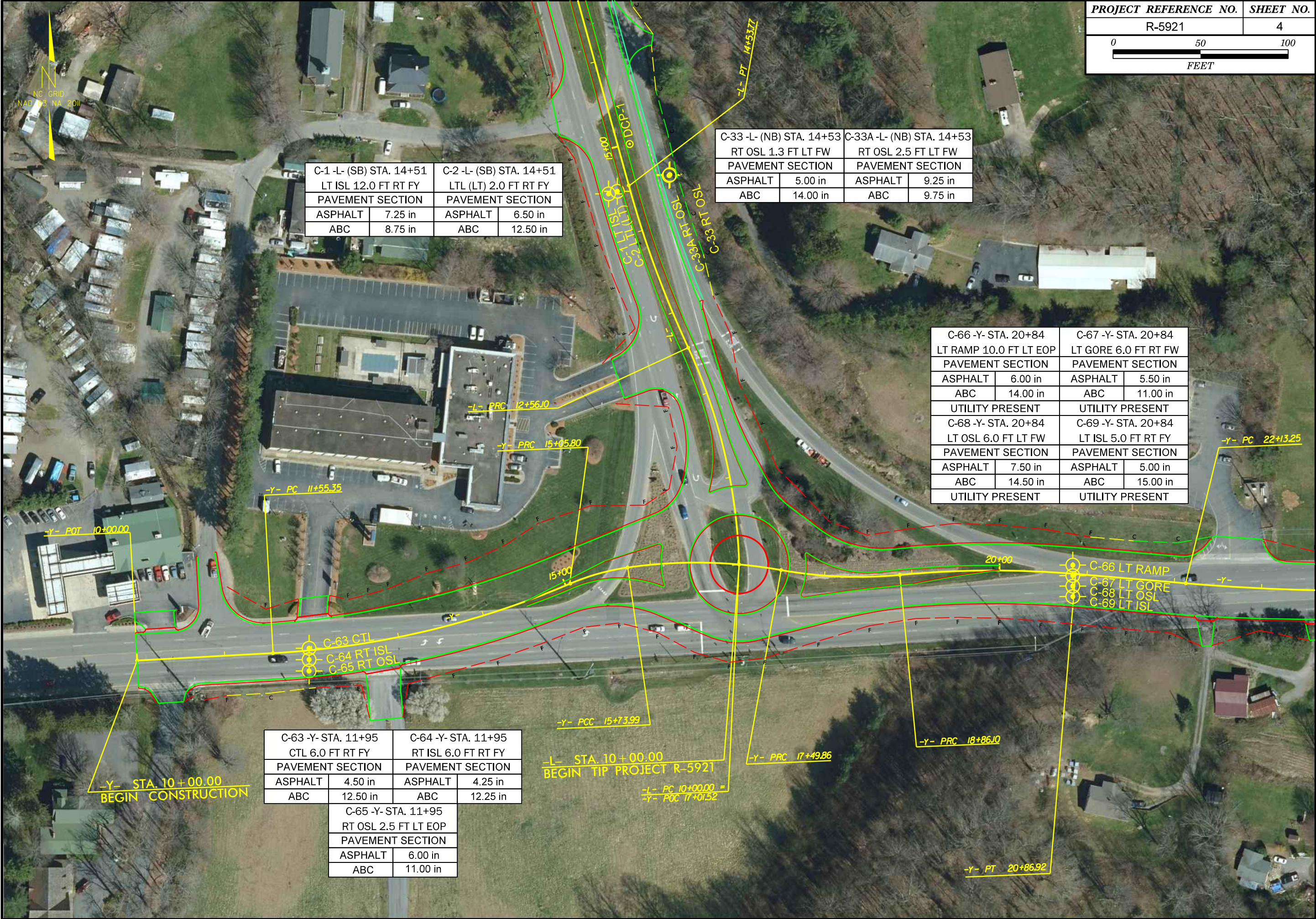
SIGNATUREDATE

DOCUMENT NOT CONSIDERED FINAL
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Tip No. R-5921 | WBS No. 48470.1.1| Haywood County

ABBREVIATIONS

RT LN = Right Lane	CR = Crown
LT LN = Left Lane	S = Super
OSL = Outside Lane	C = Cut
ISL = Inside Lane	F = Fill
OSML = Outside Mid-Lane	DCP = Dynamic Cone Penetrometer
ISML = Inside Mid-Lane	M = Moist
PS = Paved Shoulder	W = Wet
LTL = Left Turn Lane	N/A = Not Observed
RTL = Right Turn Lane	NSR = No Sample Recovered
MID = Middle Lane	S- = Soil Grab Sample
ISWP = Inside Wheel Path	Ref- = Soil Reference Sample
OSWP = Outside Wheel Path	SS- = Split Spoon Sample
PS = Paved Shoulder	RE = Roadway Embankment
FW = From White Line	F. = Fine
FY = From Yellow Line	Cse. = Coarse
RT = Right	ABC = Aggregate Base Course
LT = Left	STBC = Soil Type Base Course
(I) = Inside	CSS = Chemical Stabilized Soil
(O) = Outside	SG = Subgrade
BOC = Back of Curb	AR = Auger Refusal
C&G = Curb and Gutter	MP = Moderately Plastic
EOP = Edge of Pavement	HP = Highly Plastic

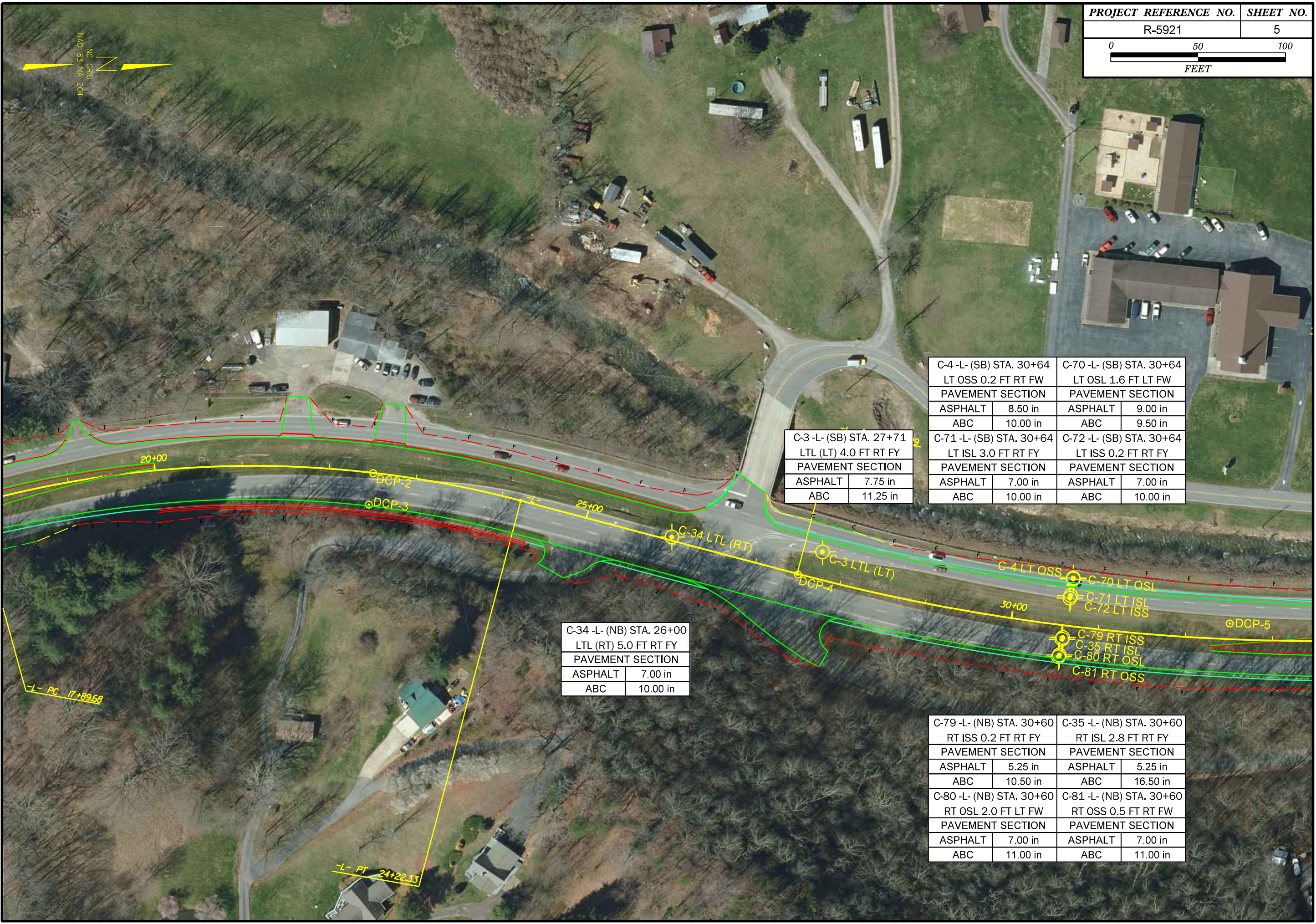


C-1 -L- (SB) STA. 14+51		C-2 -L- (SB) STA. 14+51	
LT ISL 12.0 FT RT FY		LTL (LT) 2.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.25 in	ASPHALT	6.50 in
ABC	8.75 in	ABC	12.50 in

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		PAVEMENT SECTION	
ASPHALT	6.00 in		
ABC	11.00 in		



NC CRD
NAD 83 NA 2011

PROJECT REFERENCE NO.	SHEET NO.
R-5921	5
050100 FEET	

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

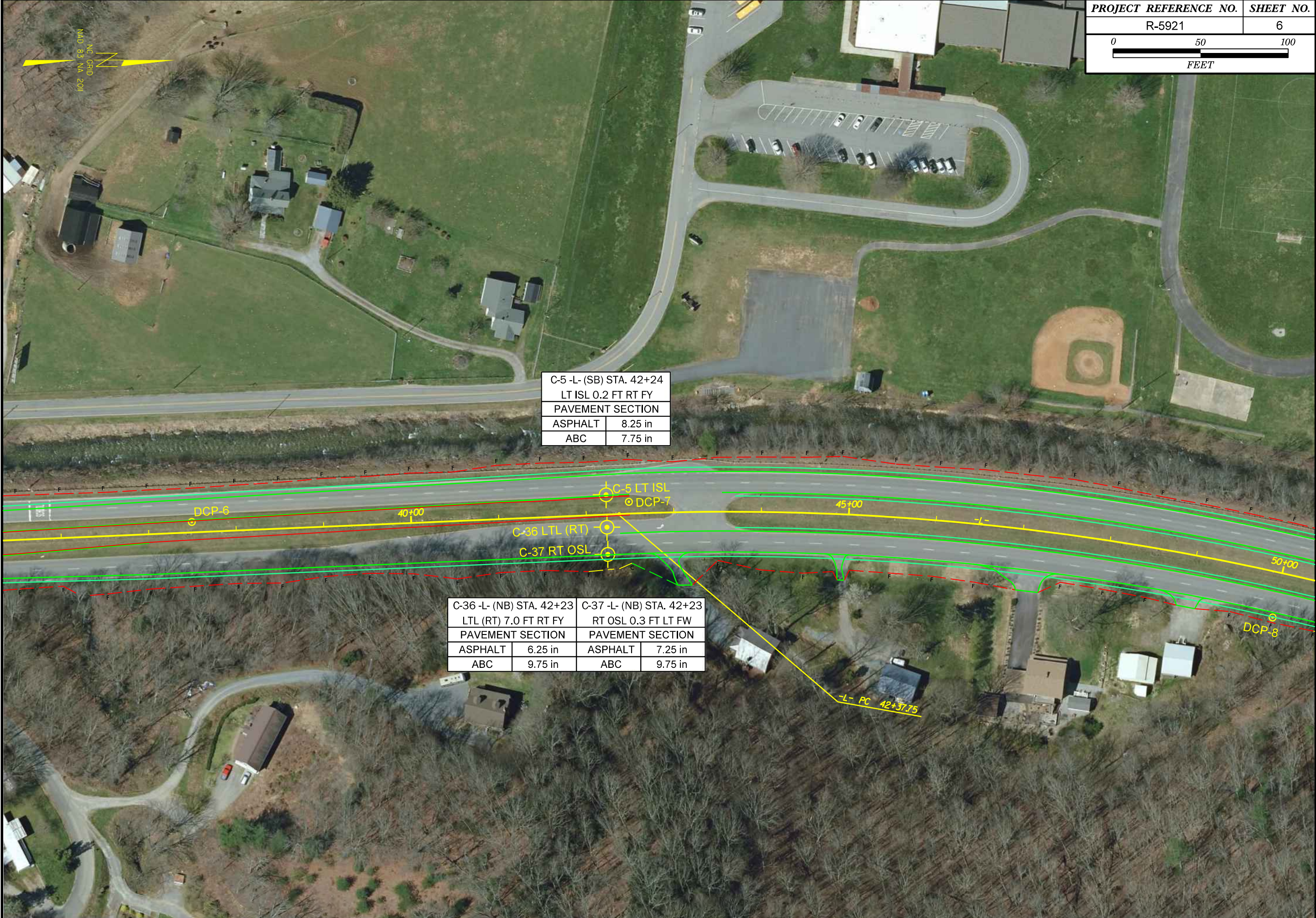
C-35 -L- (NB) STA. 30+60	
RT ISL 2.8 FT RT FY	
PAVEMENT SECTION	
ASPHALT	5.25 in
ABC	16.50 in

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

-L- PC 17+89.68

-L- PT 24+22.33



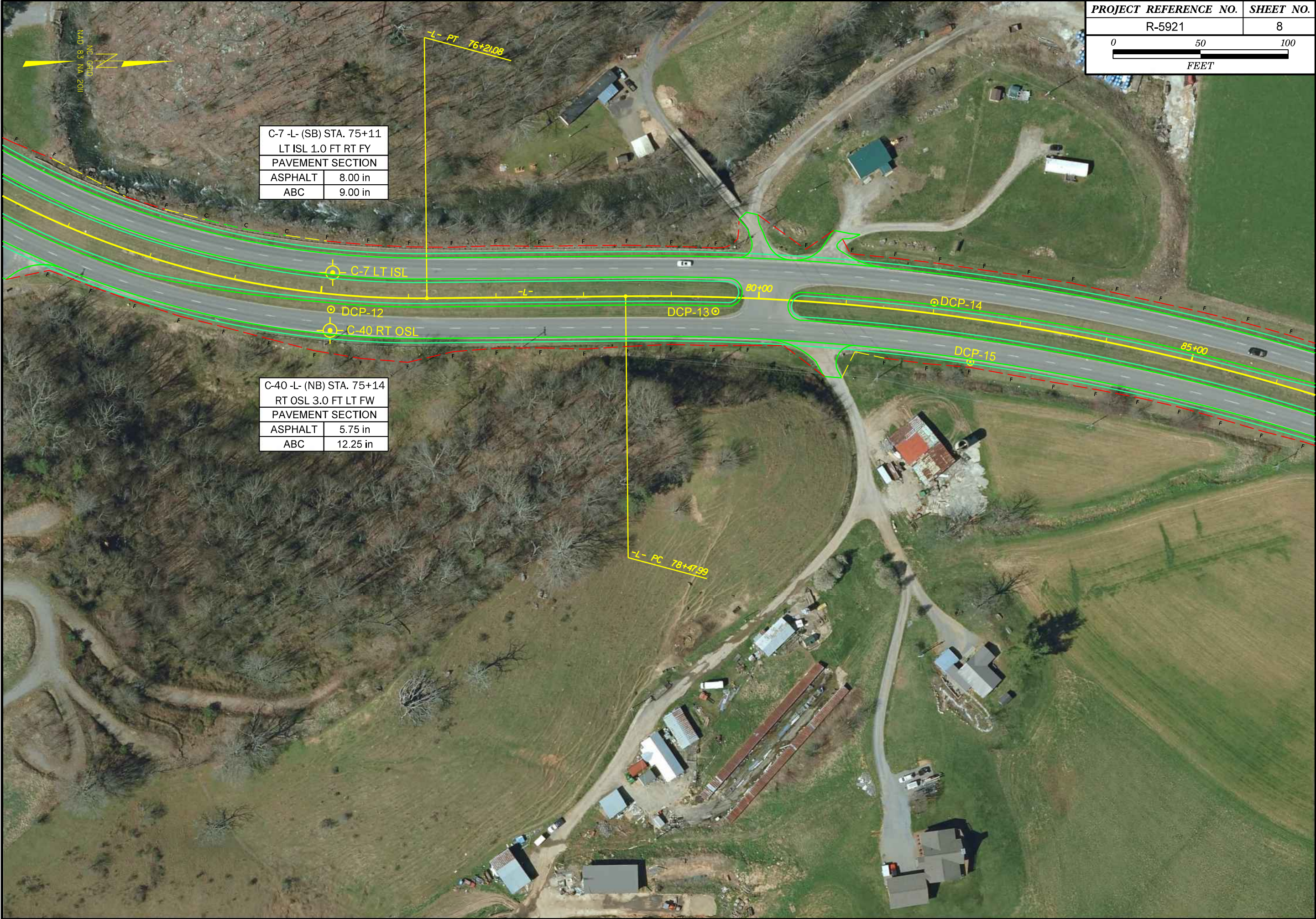
C-5 -L- (SB) STA. 42+24	
LT ISL 0.2 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.25 in
ABC	7.75 in

C-36 -L- (NB) STA. 42+23		C-37 -L- (NB) STA. 42+23	
LTL (RT) 7.0 FT RT FY		RT OS� 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



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



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

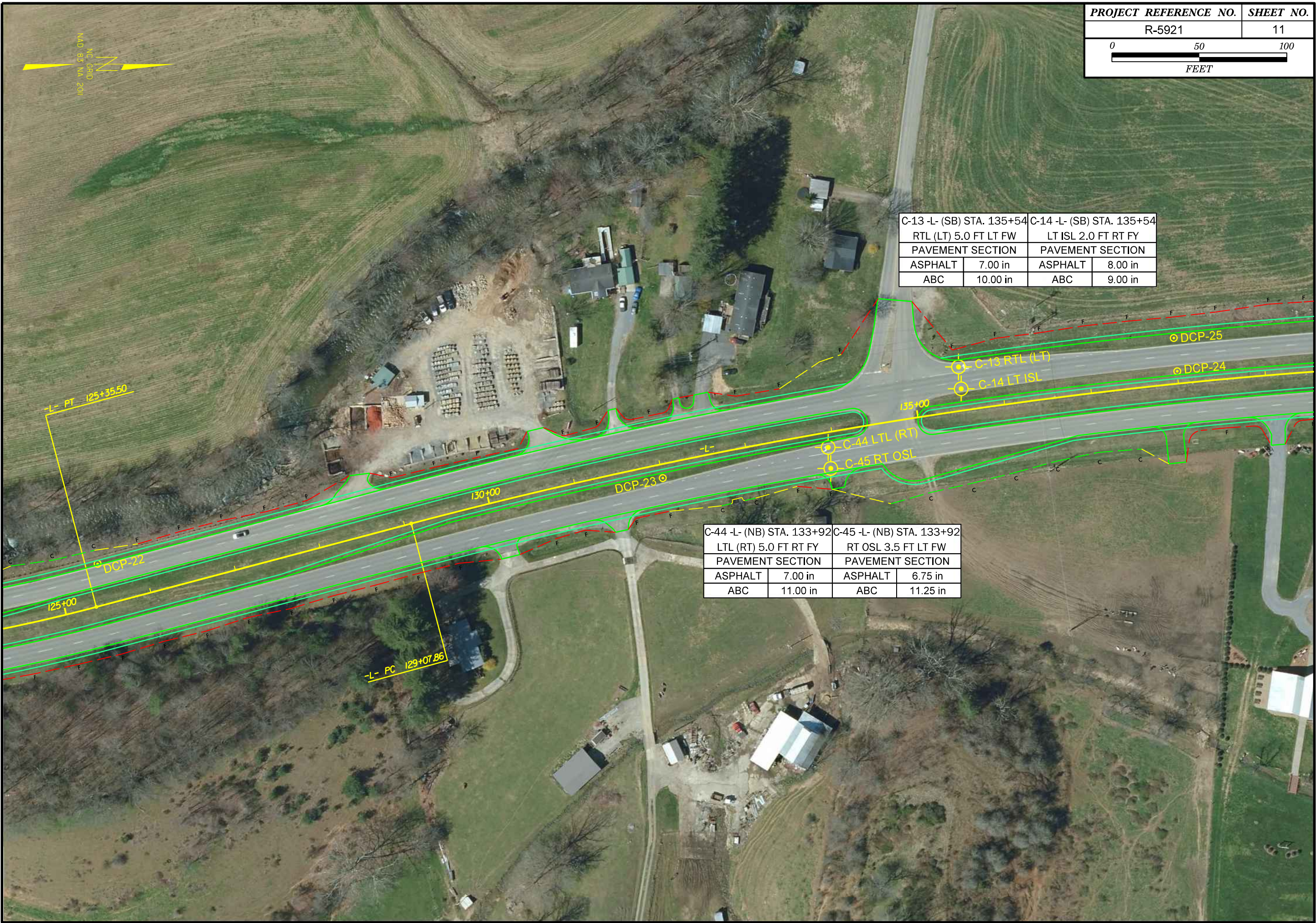
C-9 -L- (SB) STA. 103+04		C-10 -L- (SB) STA. 103+04	
LT ISL 15.0 FT RT FY		LTL (LT) 4.5 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.75 in	ASPHALT	9.00 in
ABC	9.25 in	ABC	9.50 in

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



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

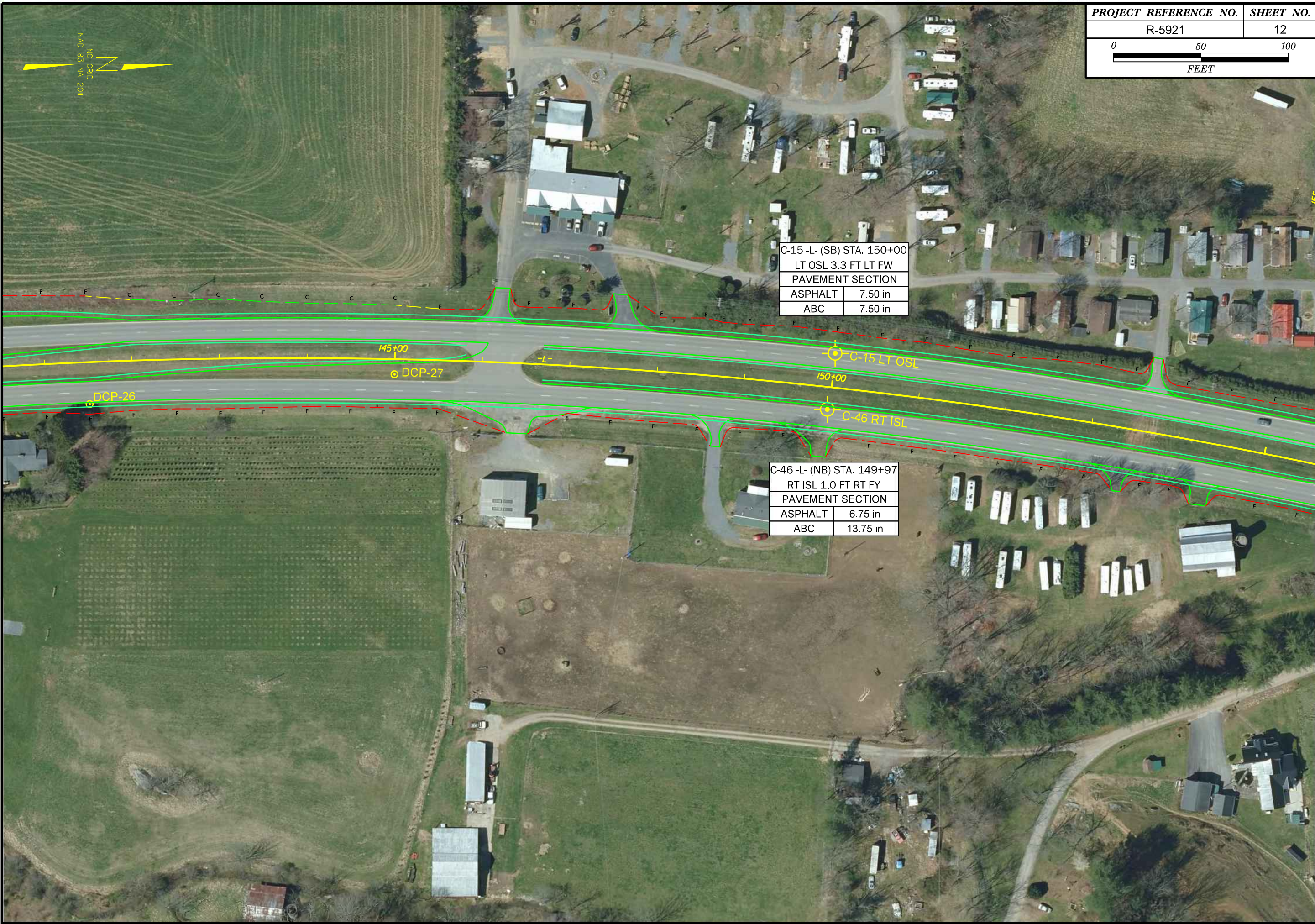


NC CRD
HAD 83 NA 2011

PROJECT REFERENCE NO.	SHEET NO.
R-5921	11
050100 FEET	

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

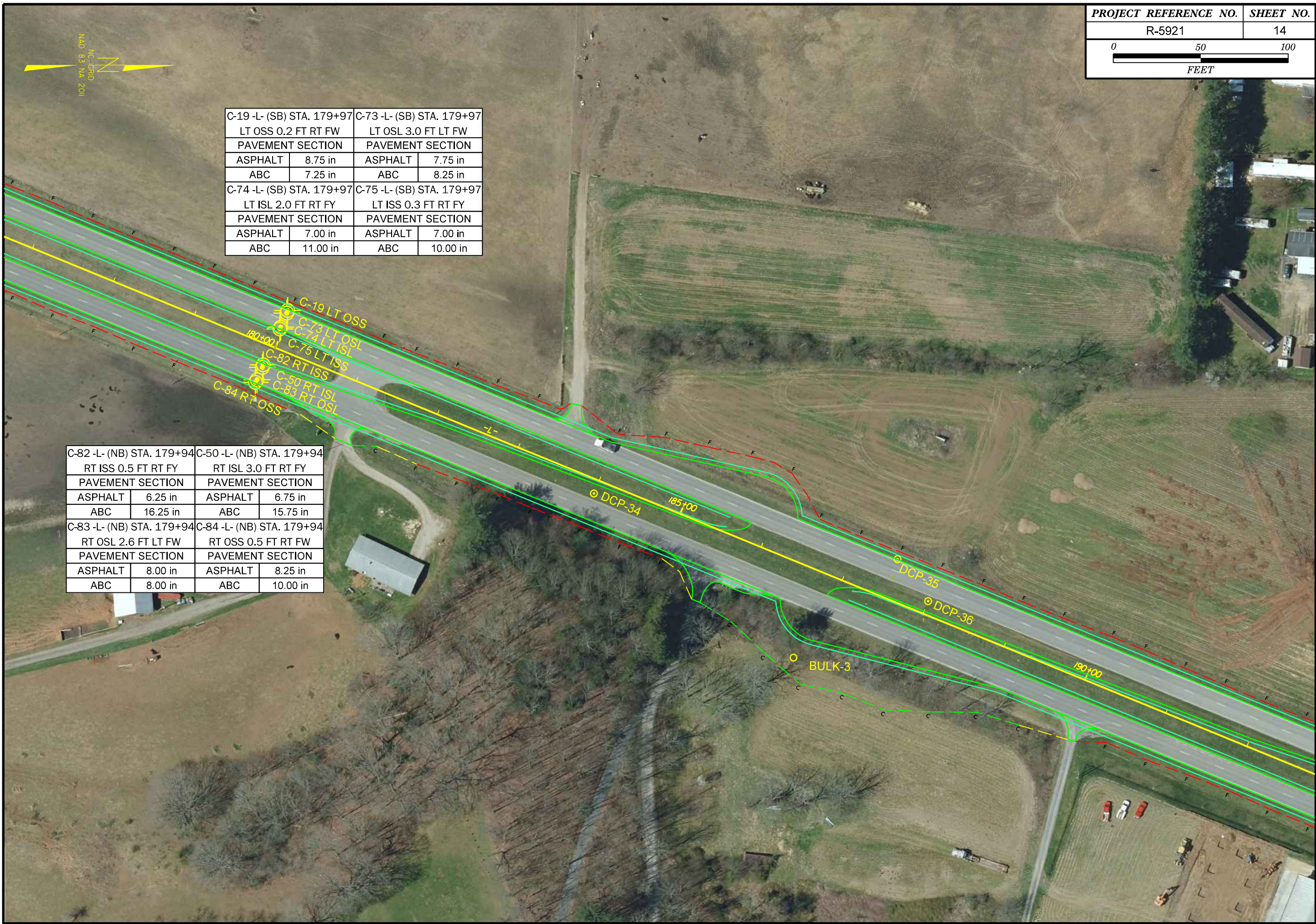
C-17 -L- (SB) STA. 163+96	
RTL (LT) 5.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	7.25 in
ABC	8.25 in

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

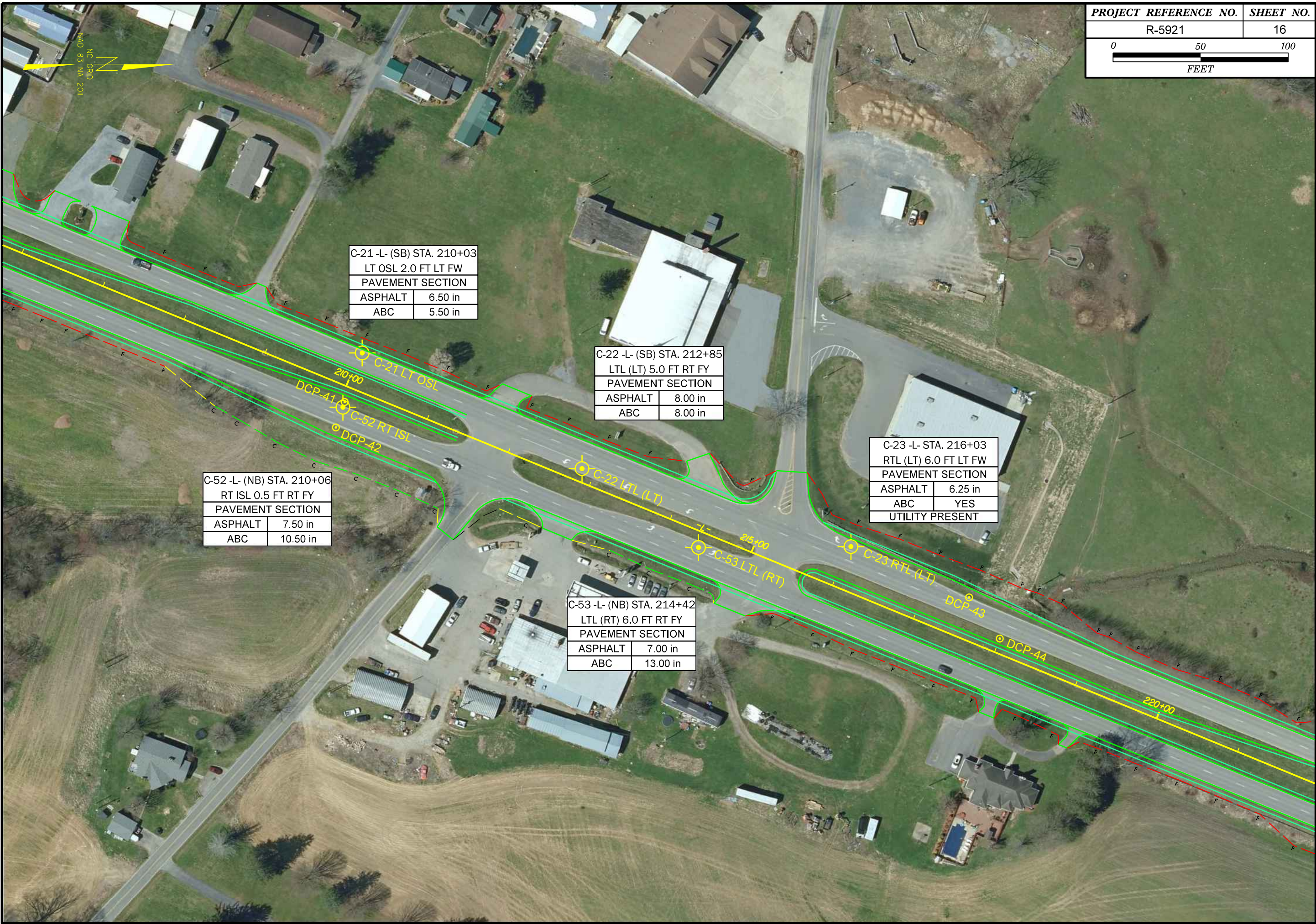


C-19 -L- (SB) STA. 179+97		C-73 -L- (SB) STA. 179+97	
LT OSS 0.2 FT RT FW		LT OSL 3.0 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	8.75 in	ASPHALT	7.75 in
ABC	7.25 in	ABC	8.25 in
C-74 -L- (SB) STA. 179+97		C-75 -L- (SB) STA. 179+97	
LT ISL 2.0 FT RT FY		LT ISS 0.3 FT RT FY	
PAVEMENT SECTION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







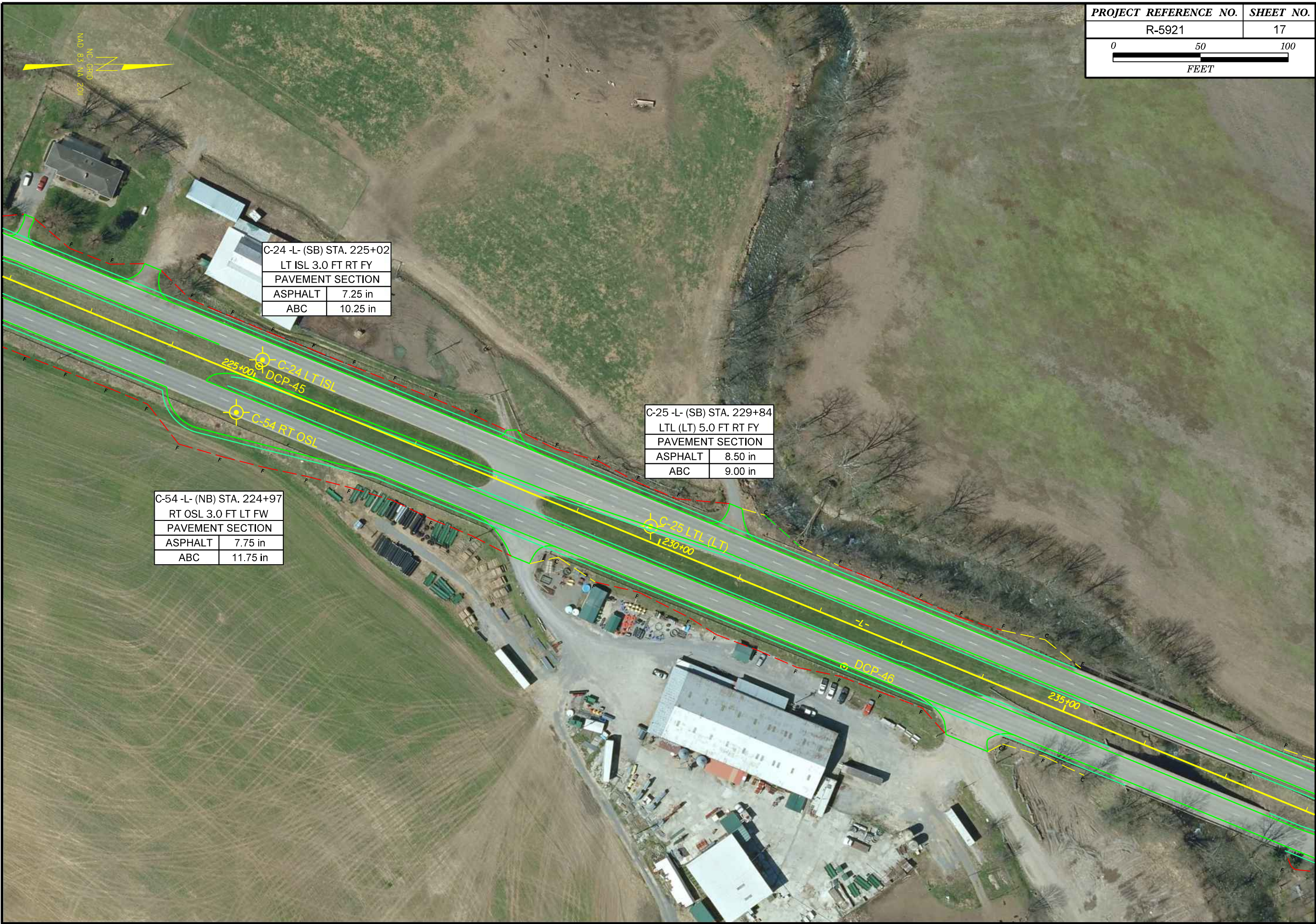
C-21-L- (SB) STA. 210+03	
LT OSL 2.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	6.50 in
ABC	5.50 in

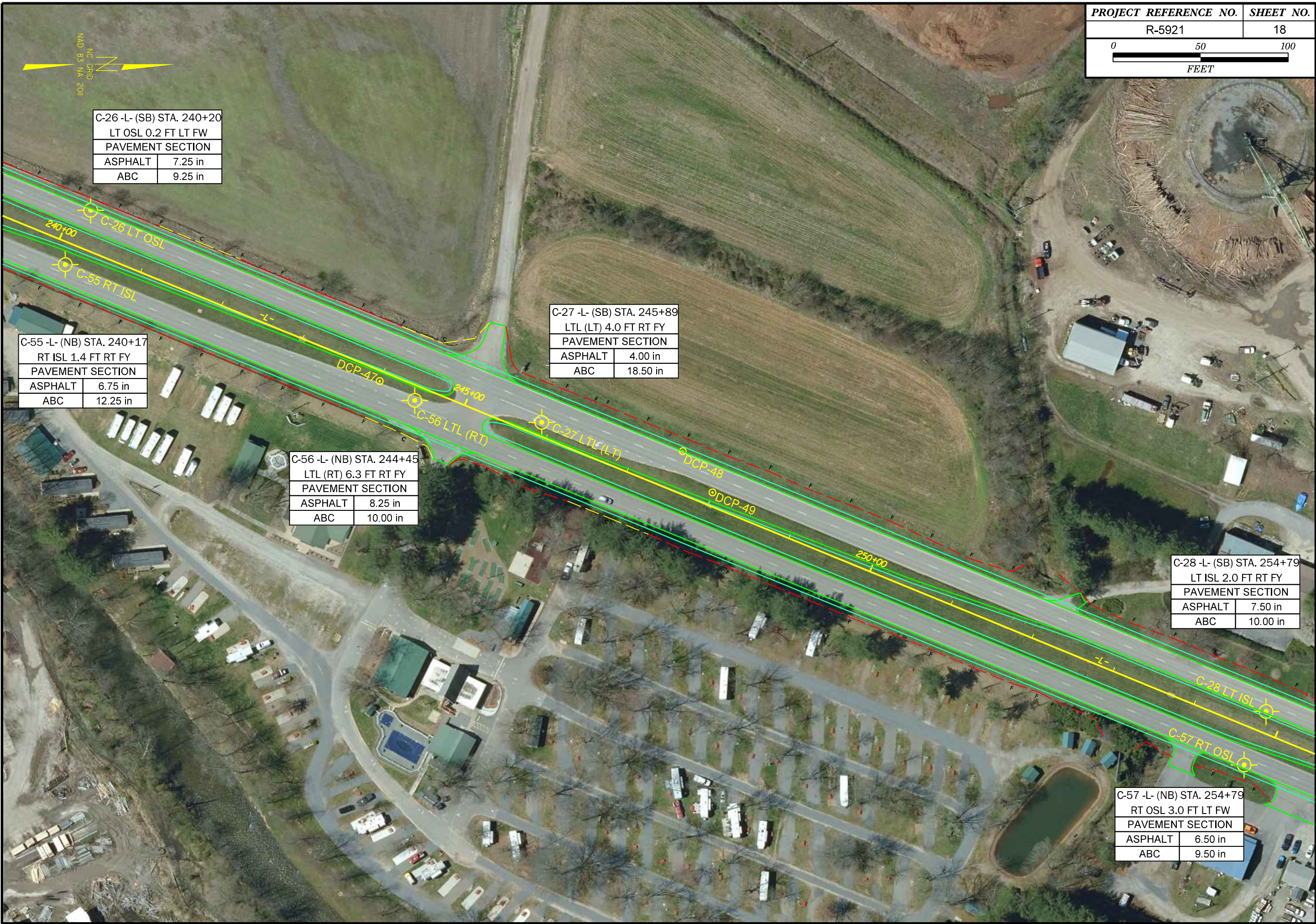
C-22-L- (SB) STA. 212+85	
LTL (LT) 5.0 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.00 in
ABC	8.00 in

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





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

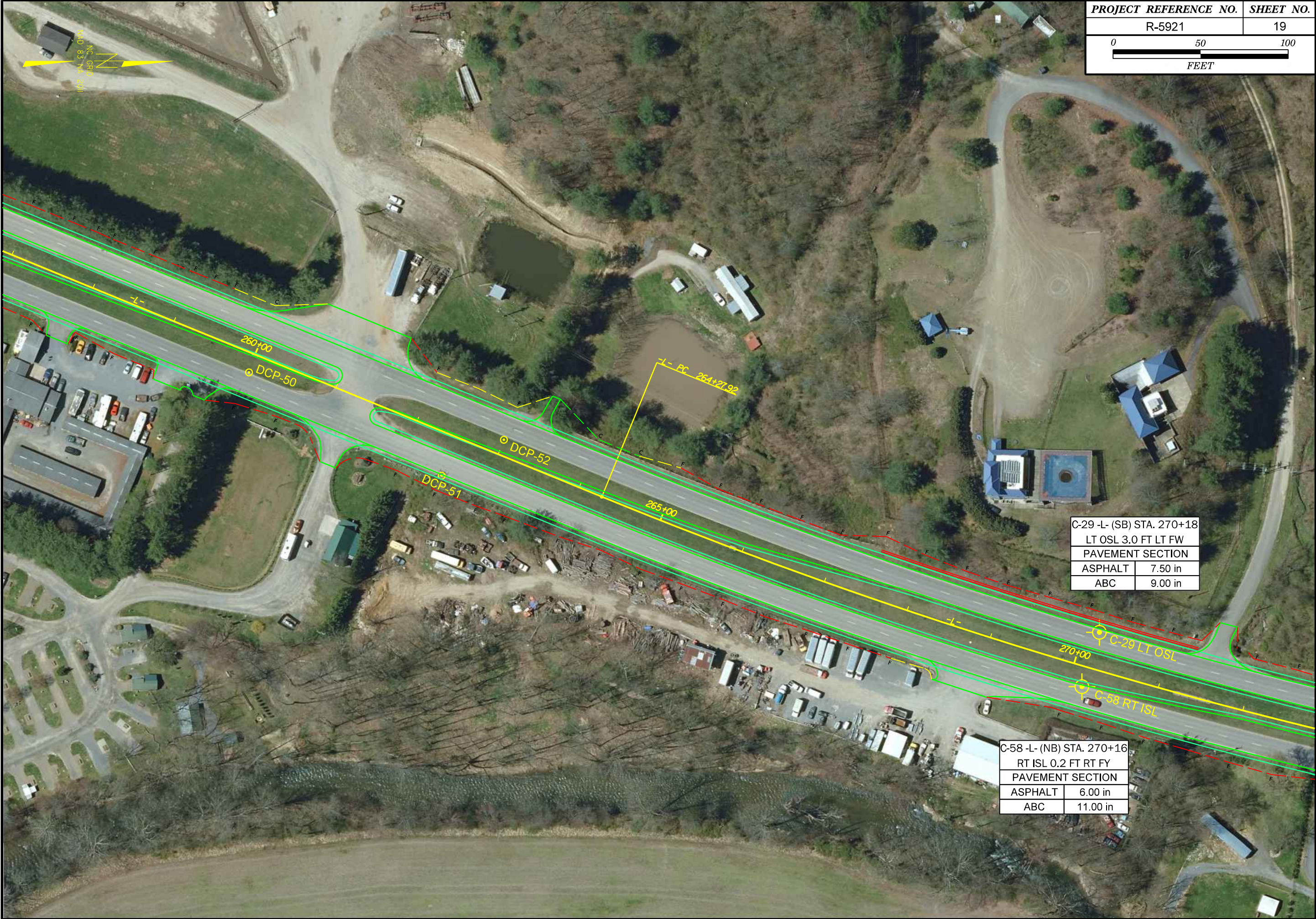
C-55 -L- (NB) STA. 240+17	
RT ISL 1.4 FT RT FY	
PAVEMENT SECTION	
ASPHALT	6.75 in
ABC	12.25 in

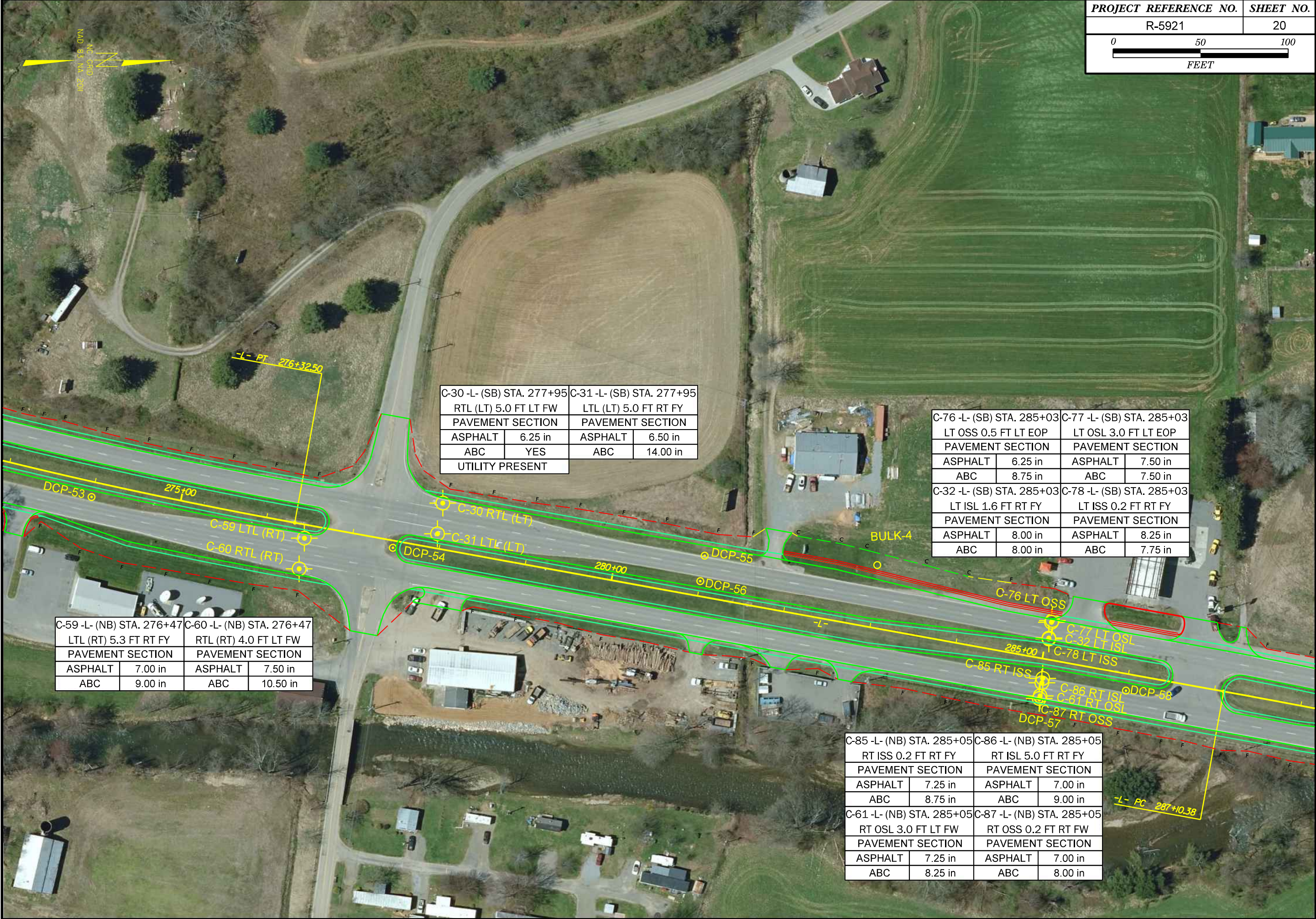
C-56 -L- (NB) STA. 244+45	
LTL (RT) 6.3 FT RT FY	
PAVEMENT SECTION	
ASPHALT	8.25 in
ABC	10.00 in

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



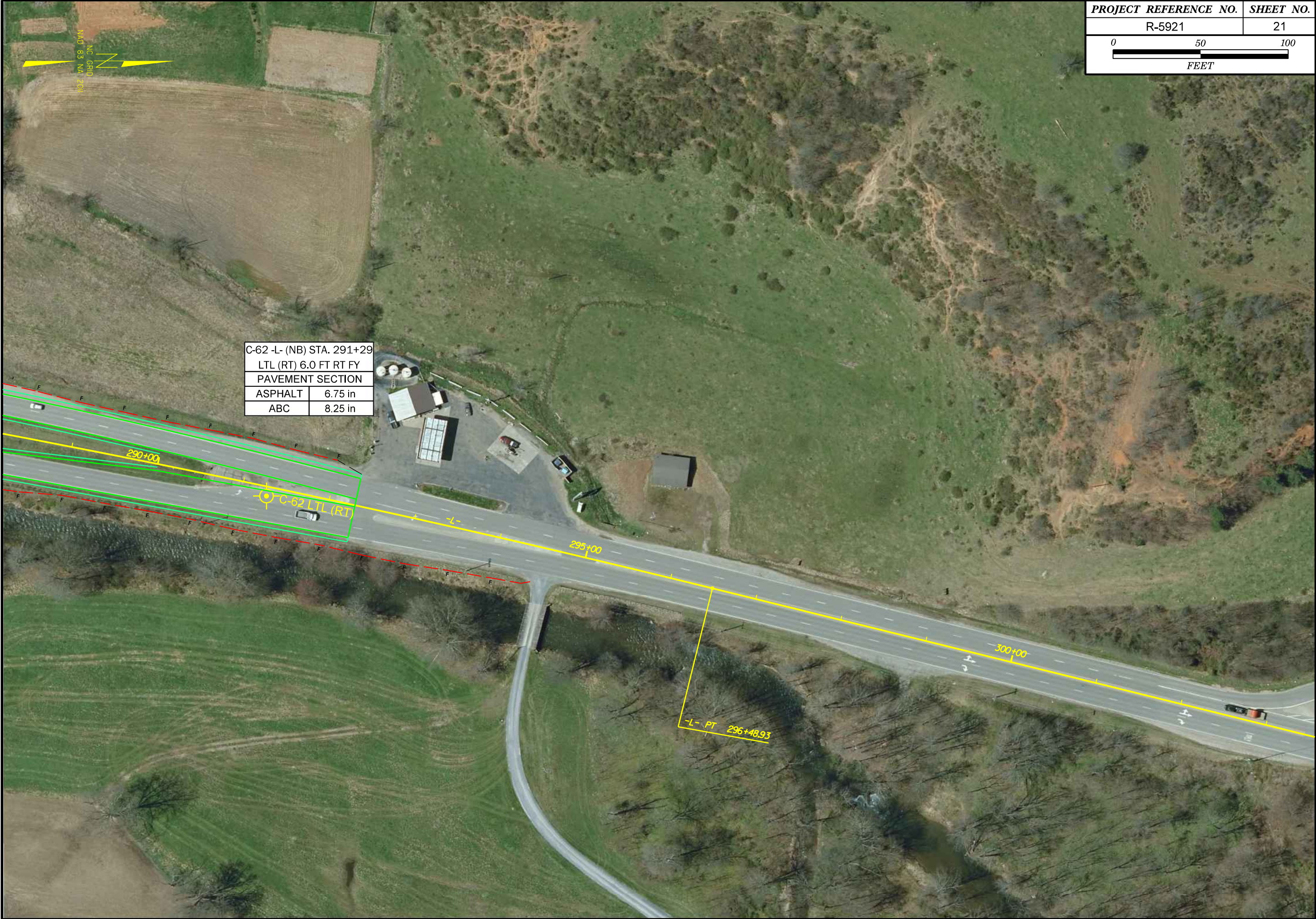


C-30 -L- (SB) STA. 277+95		C-31 -L- (SB) STA. 277+95	
RTL (LT) 5.0 FT LT FW		LTL (LT) 5.0 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.25 in	ASPHALT	6.50 in
ABC	YES	ABC	14.00 in
UTILITY PRESENT			

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-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-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



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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
C-1 -L- (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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
C-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) Full-Depth Crack in Core	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) Core Highly Degraded	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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
C-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 4-inch Bottom Up Crack in Core	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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
C-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) Full-Depth Crack in Core	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) 4" Top-Down Crack In Core	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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
C-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) Full-Depth Top-Down Crack in Core	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 Cored on Crack, Little Core Recovery	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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
C-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) Full-Depth Crack in Core	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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
DCP-1 -L- Sta. 14+99	Fill 7.0	RT Median		8.0 LT FY								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 FY								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 FW								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 FY								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 FY								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 FY								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 FY								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 FW								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 FY								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 FY								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 FY								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 FY								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 FY								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 FY								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 FW								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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
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

		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
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

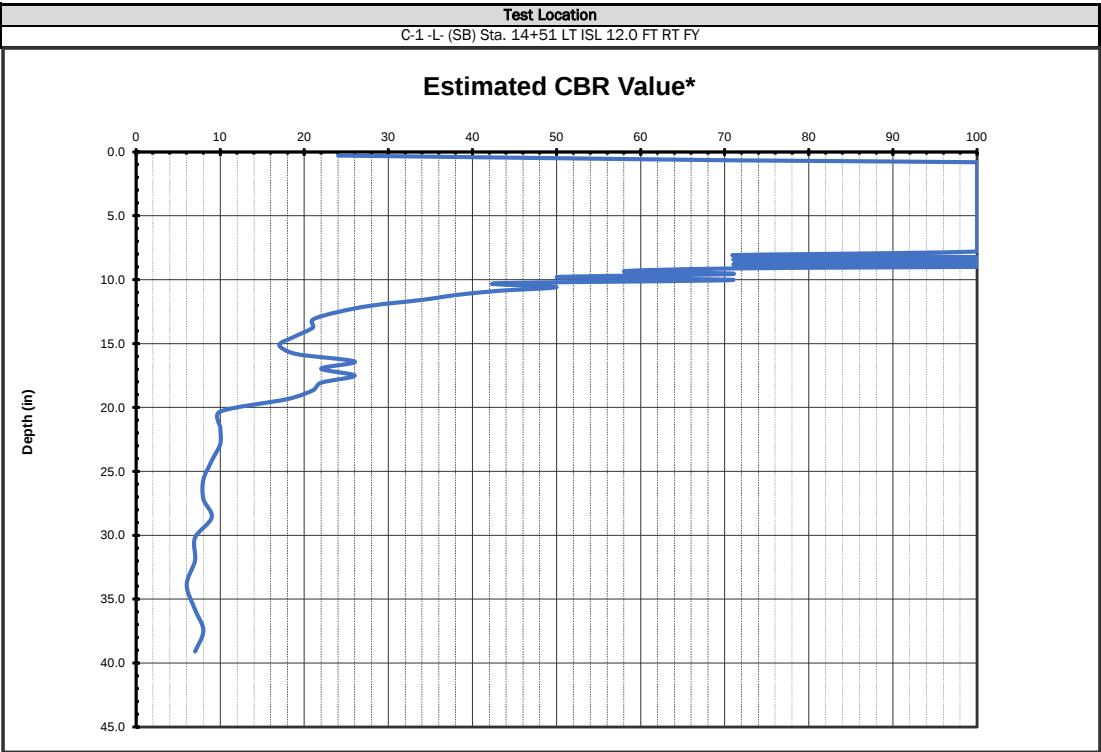
		Width (ft)		(ft)	(in)	Thickness (in)						Subgrade							GPS Coordinates	
Test Location	Cut/Fill (Est. of Amount) (ft)	Lane	Shoulder	Offset Distance (See Notes)	Crown "Cr" or Super "S"	Gross to Top of Soil	Asphalt	ABC	Stabilized Subgrade	Concrete	Pavement Layering	Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)	Asphalt Notes	Northing	Easting	
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

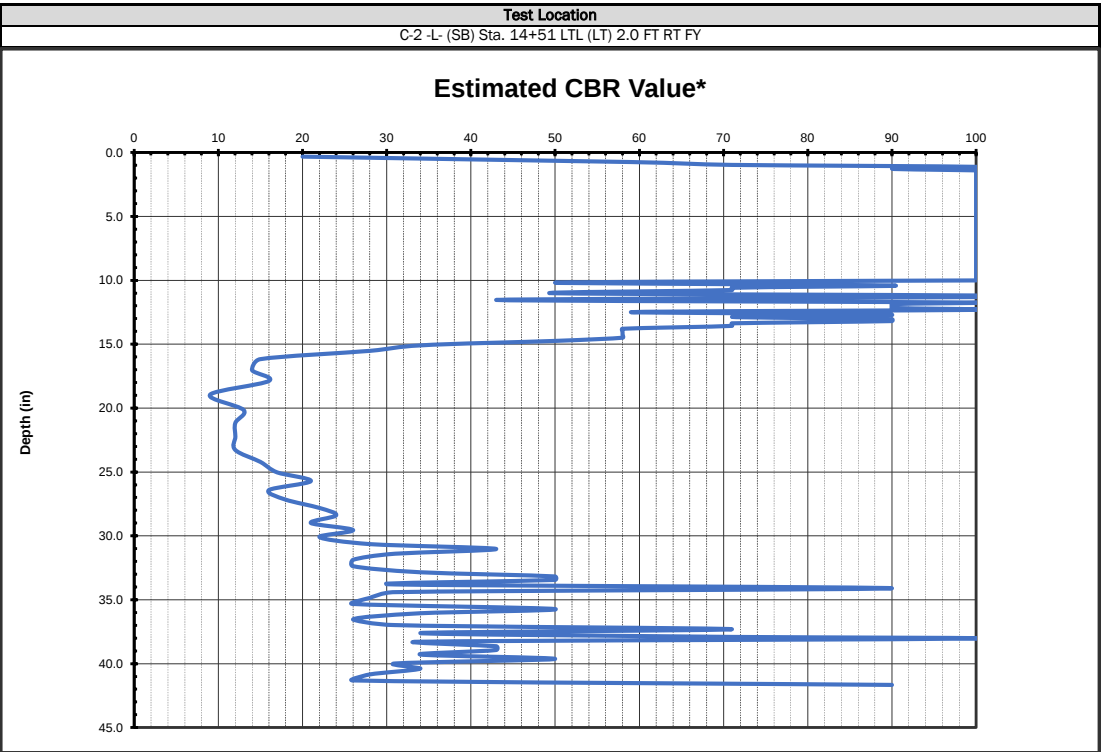


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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			
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



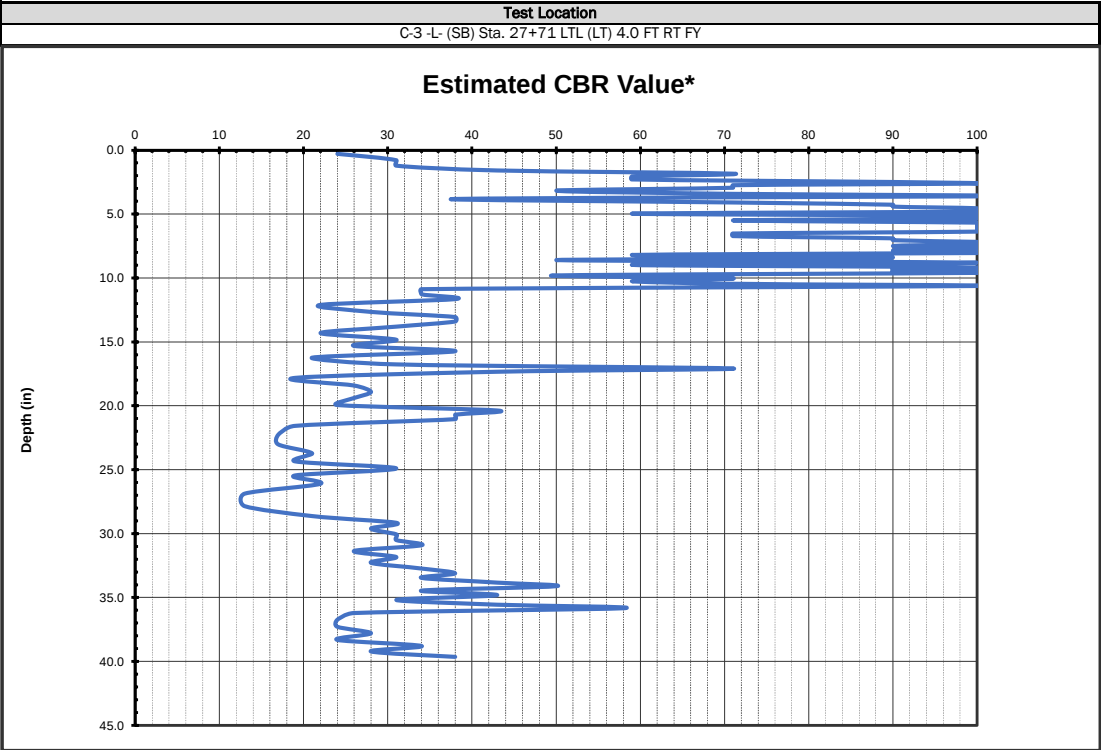
ABC	
ABC Thickness (in)	12.50
Average CBR	97
Weighted CBR Average	89
Maximum CBR Value	100
Minimum CBR Value	20

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)

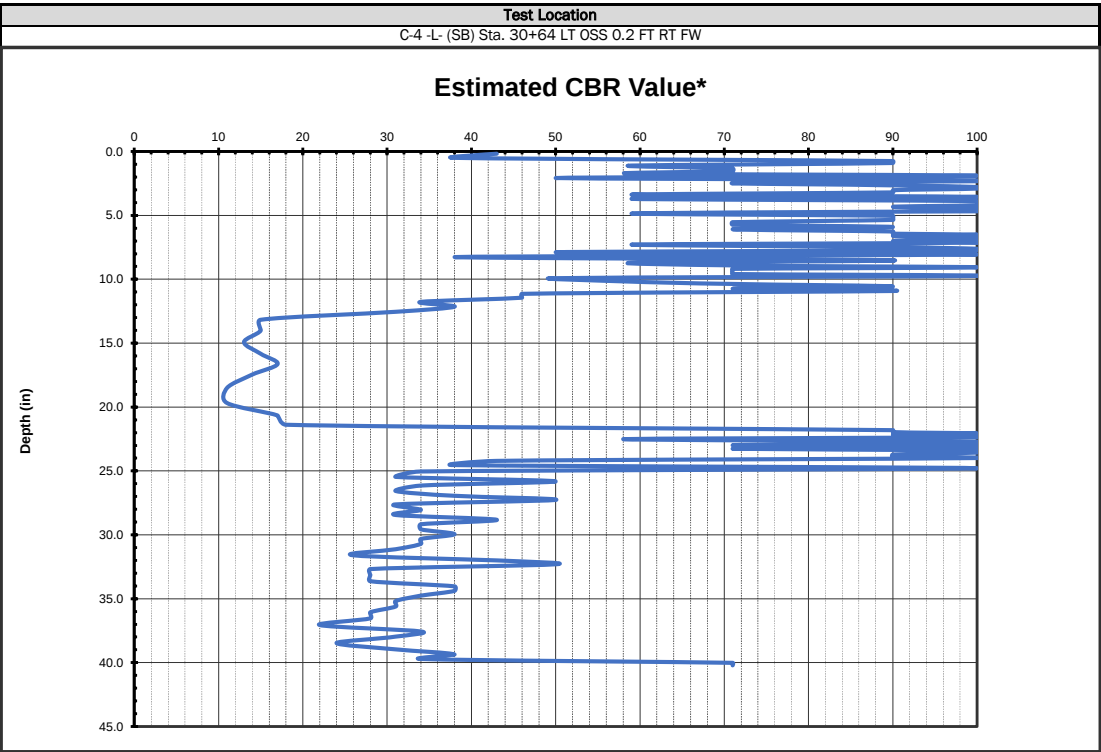


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



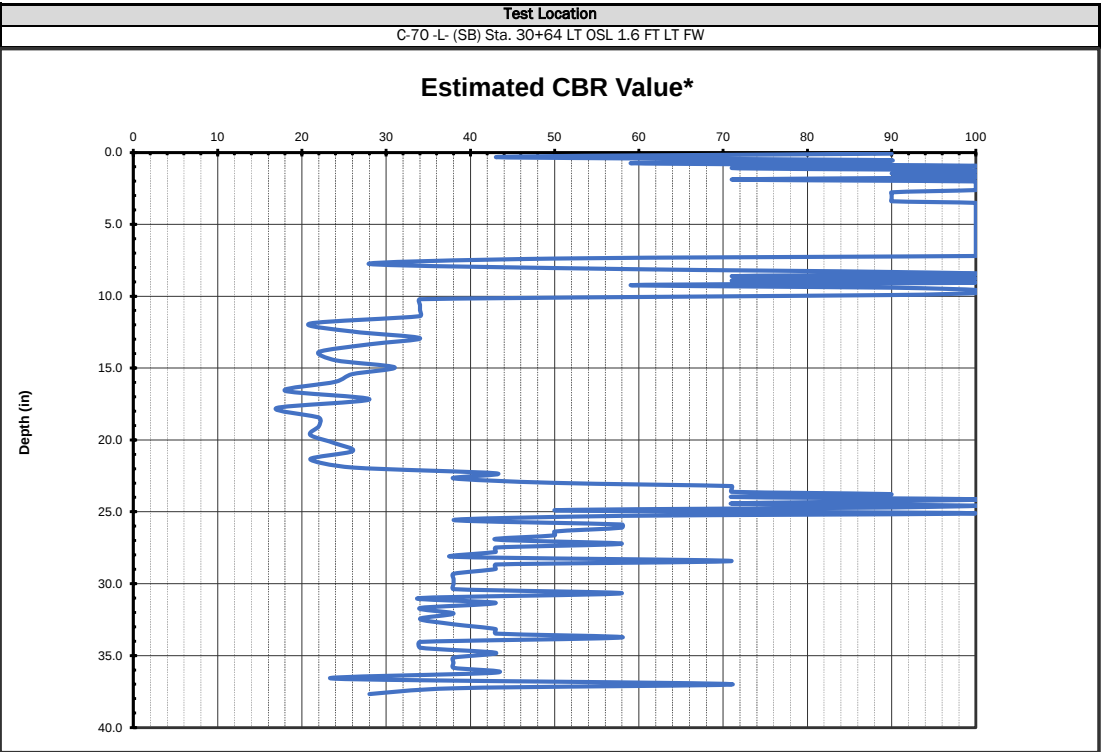
ABC	
ABC Thickness (in)	10.00
Average CBR	82
Weighted CBR Average	75
Maximum CBR Value	100
Minimum CBR Value	38

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)

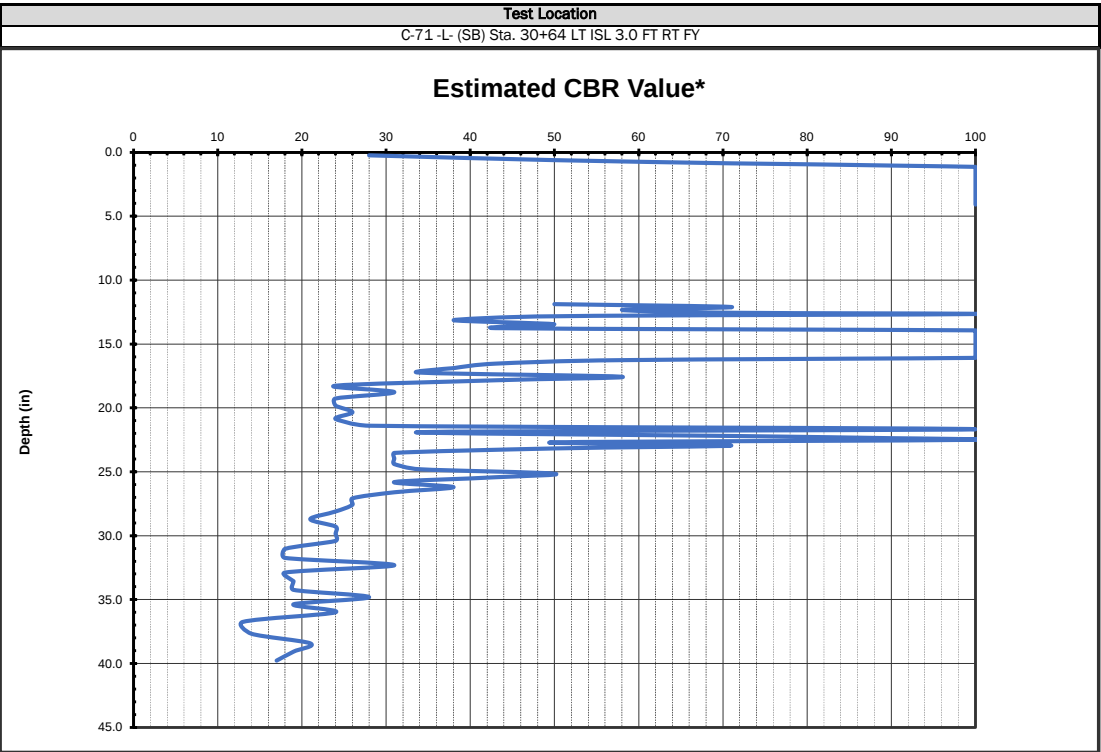


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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 18.9	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



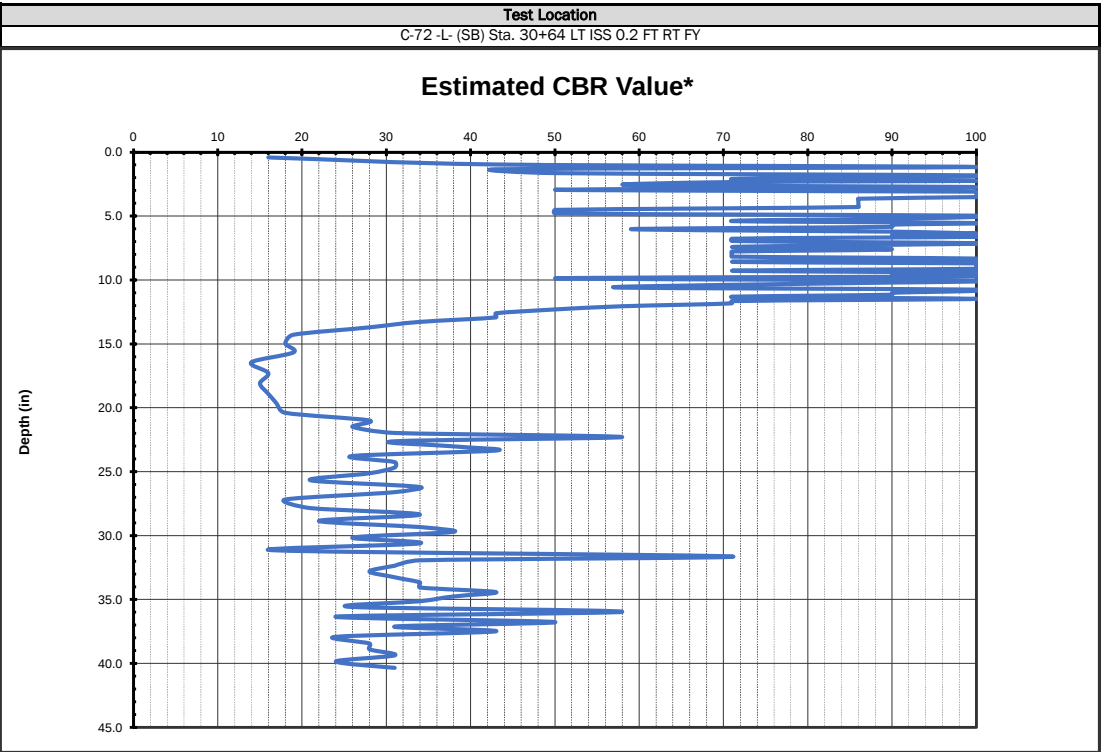
ABC	
ABC Thickness (in)	10.00
Average CBR	97
Weighted CBR Average	87
Maximum CBR Value	100
Minimum CBR Value	28

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)

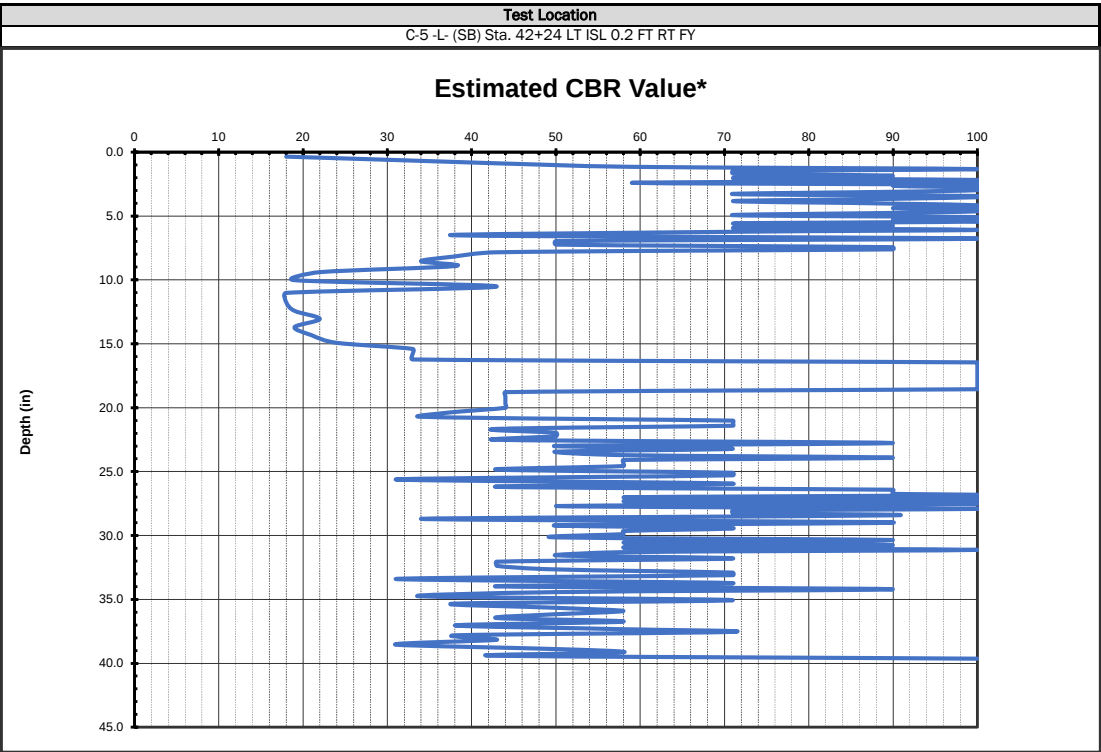


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



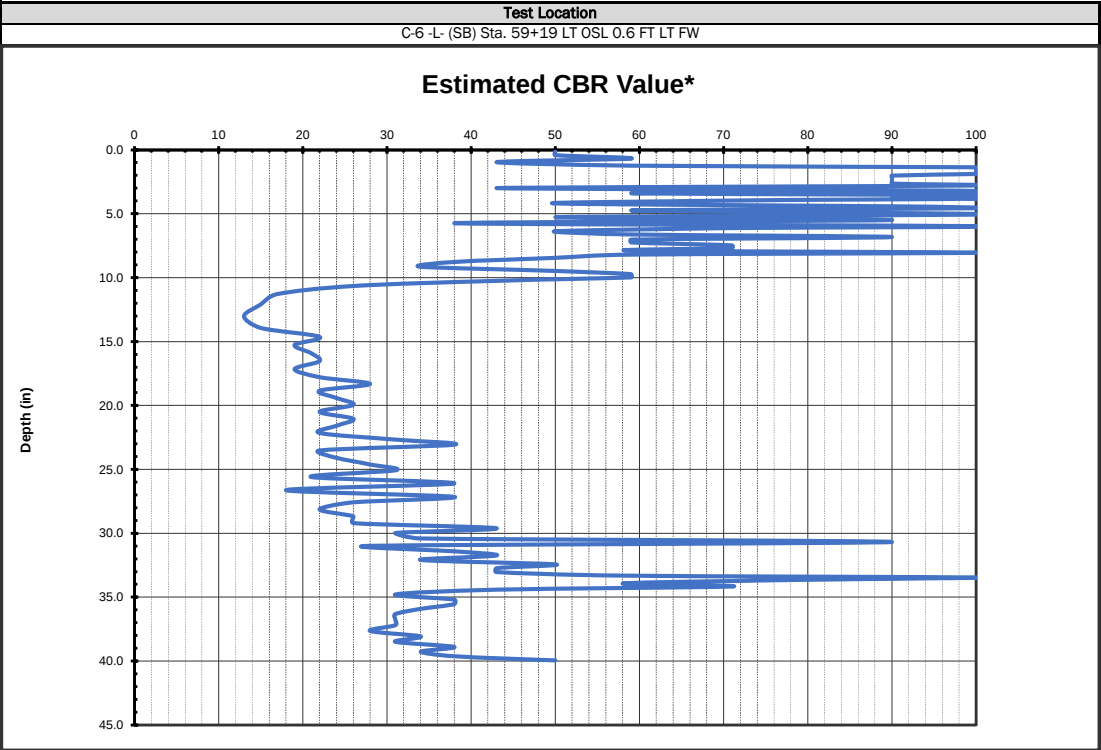
ABC	
ABC Thickness (in)	7.75
Average CBR	83
Weighted CBR Average	72
Maximum CBR Value	100
Minimum CBR Value	18

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)

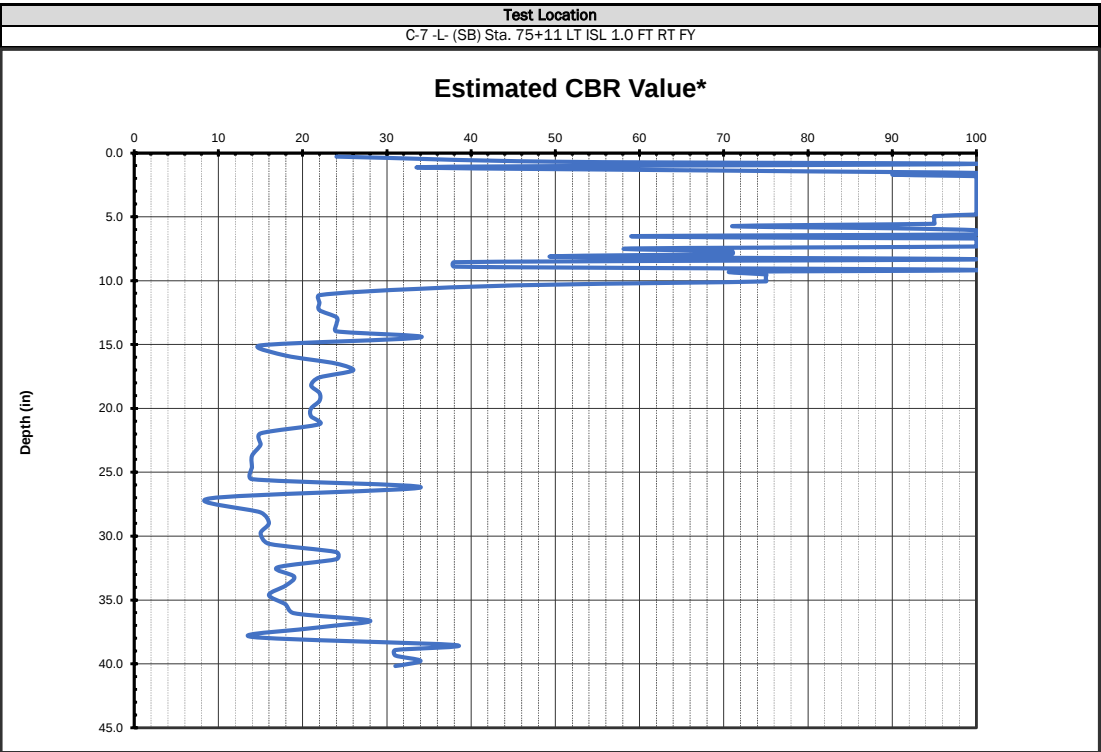


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



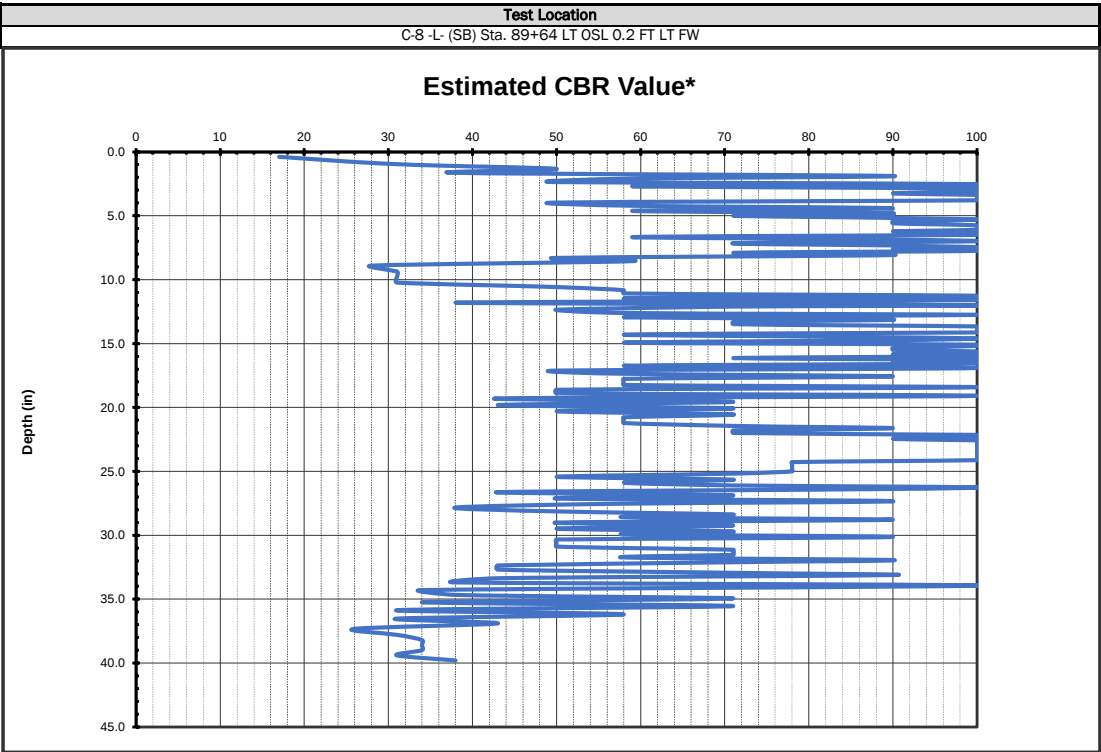
ABC	
ABC Thickness (in)	9.00
Average CBR	90
Weighted CBR Average	79
Maximum CBR Value	100
Minimum CBR Value	24

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)

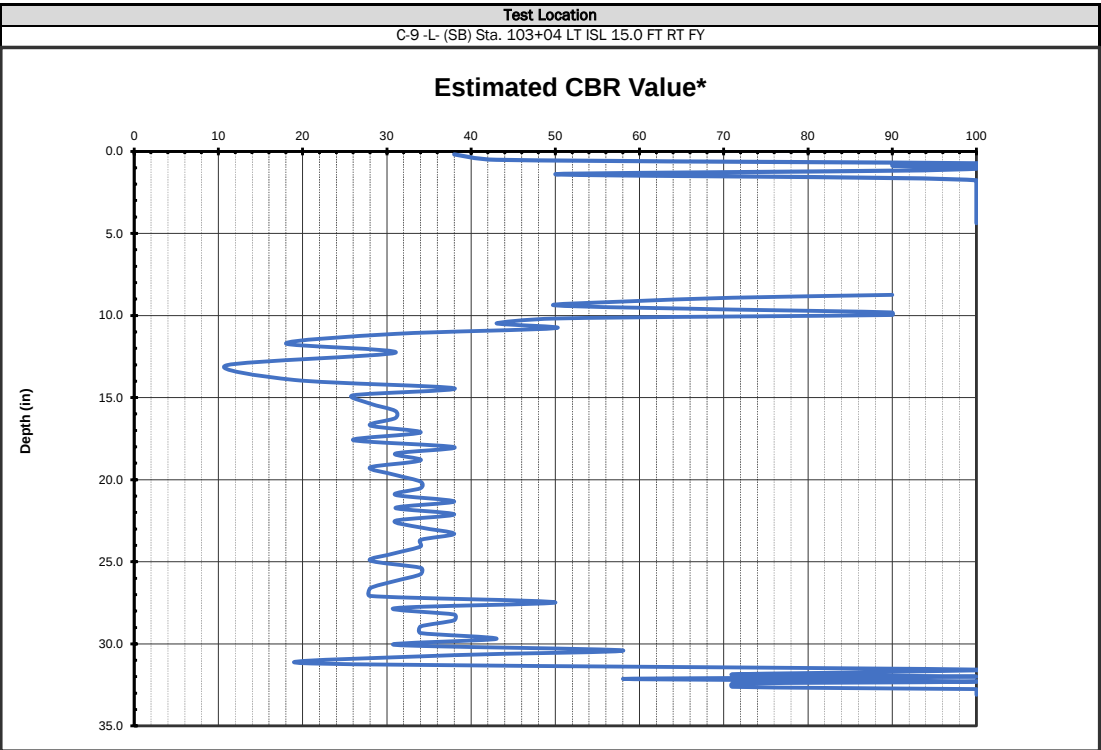


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.			ROUTE			
				48470.1.1	R-5921			US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL			DRILLER/HELPER			
				Haywood	T. Wenner, P.G.			M. Brewer, P. Tomasic			
Test Location				Date 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 9.50	62.30				
3.70	34.80	61.40			2.00	TO 20.80 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				
28.80	57.72	93.30			9.00	54.70	50/0.5"				
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



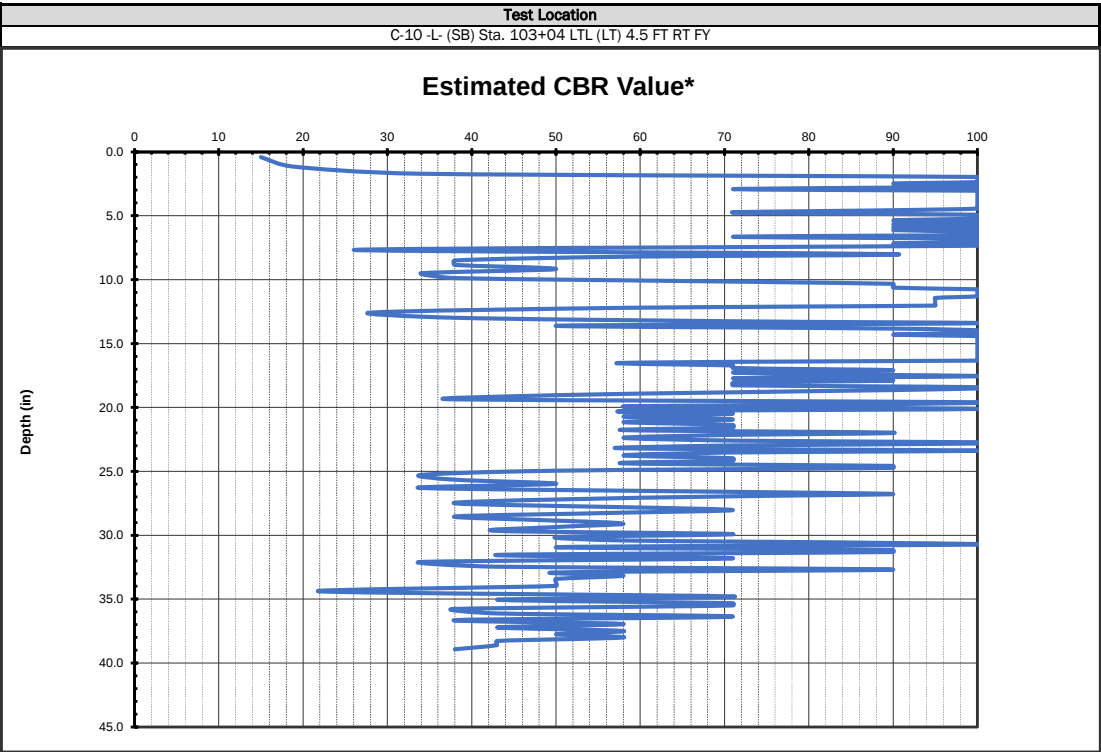
ABC	
ABC Thickness (in)	9.25
Average CBR	95
Weighted CBR Average	32
Maximum CBR Value	100
Minimum CBR Value	1

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)

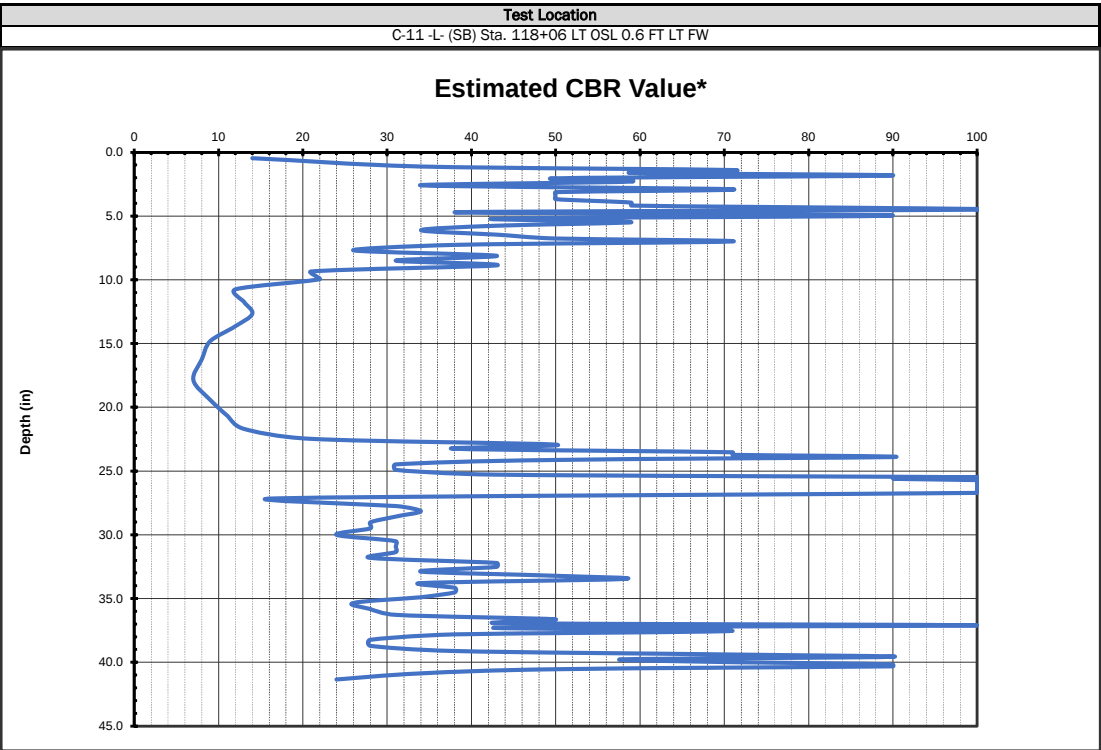


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



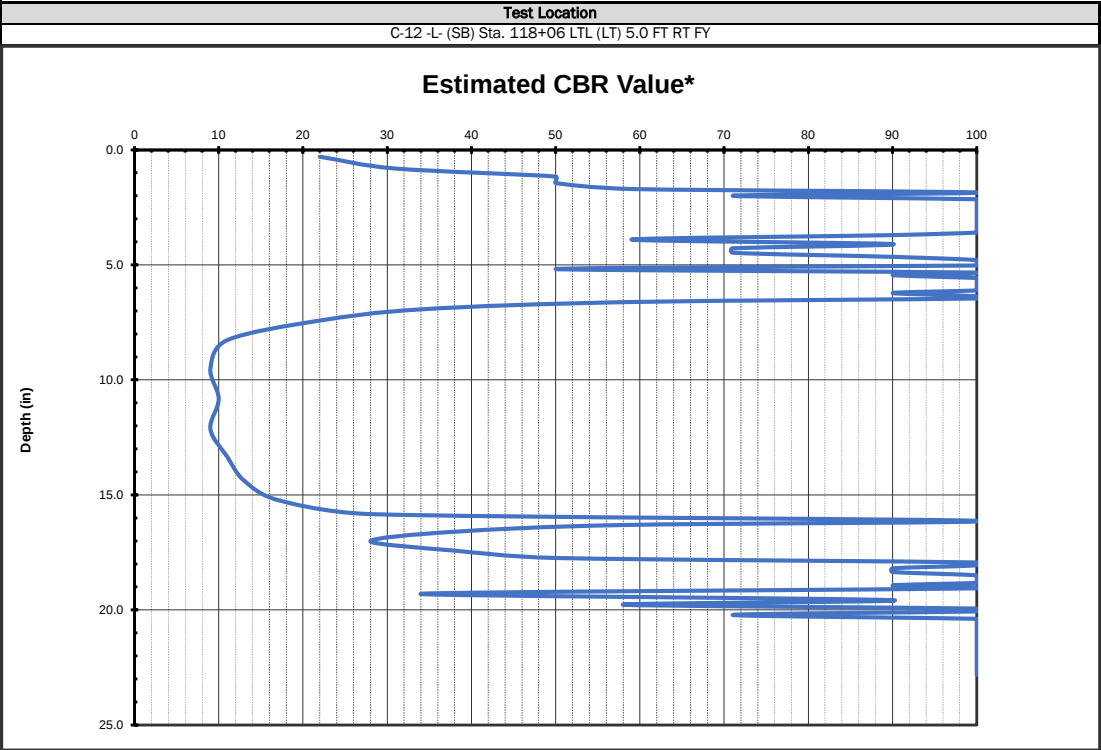
ABC	
ABC Thickness (in)	8.00
Average CBR	55
Weighted CBR Average	46
Maximum CBR Value	100
Minimum CBR Value	14

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)

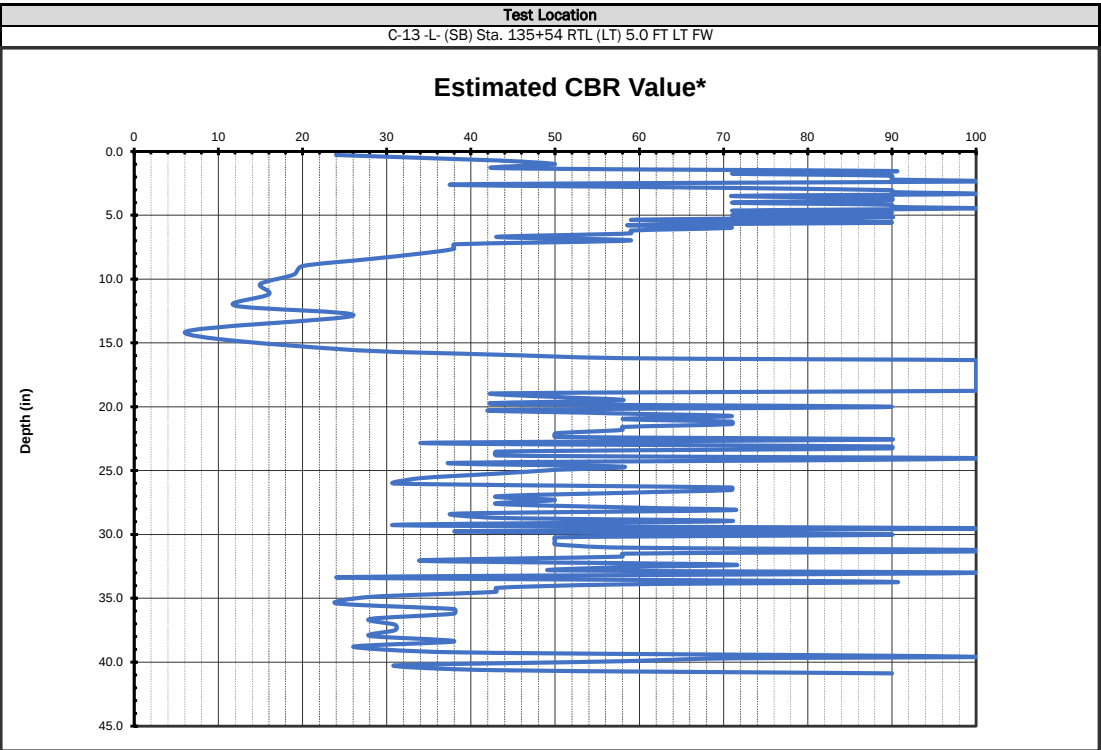


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	69/1"				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



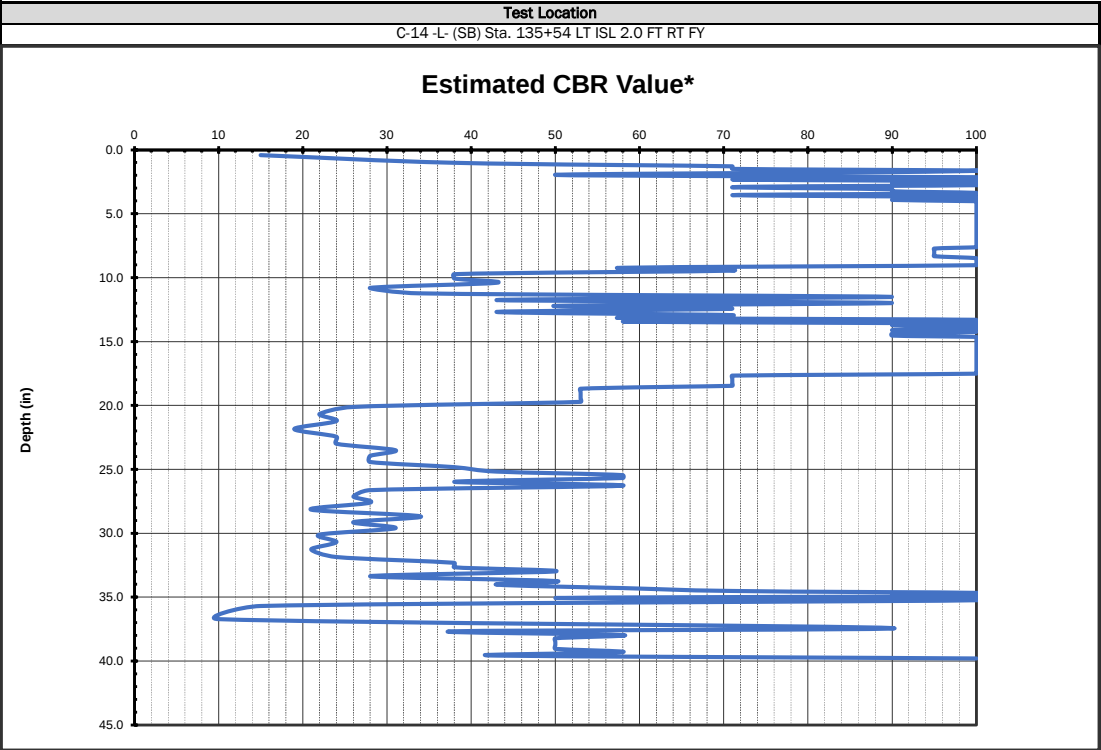
ABC	
ABC Thickness (in)	10.00
Average CBR	67
Weighted CBR Average	55
Maximum CBR Value	100
Minimum CBR Value	19

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)

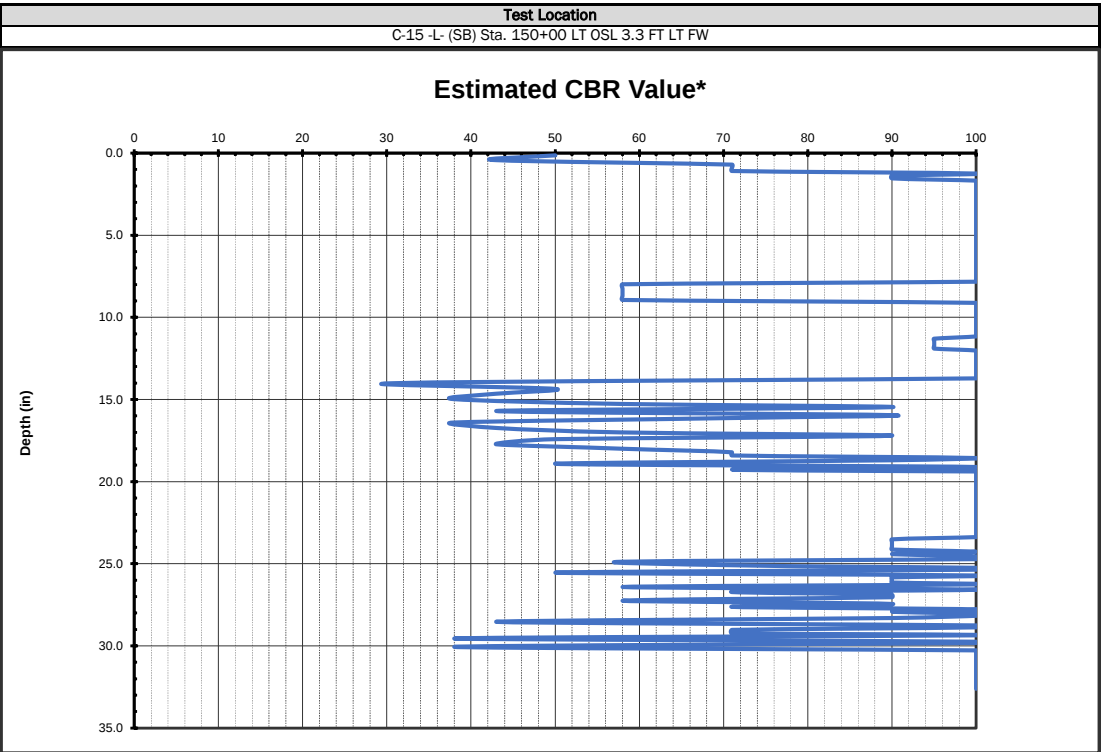


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	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	
2.10	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



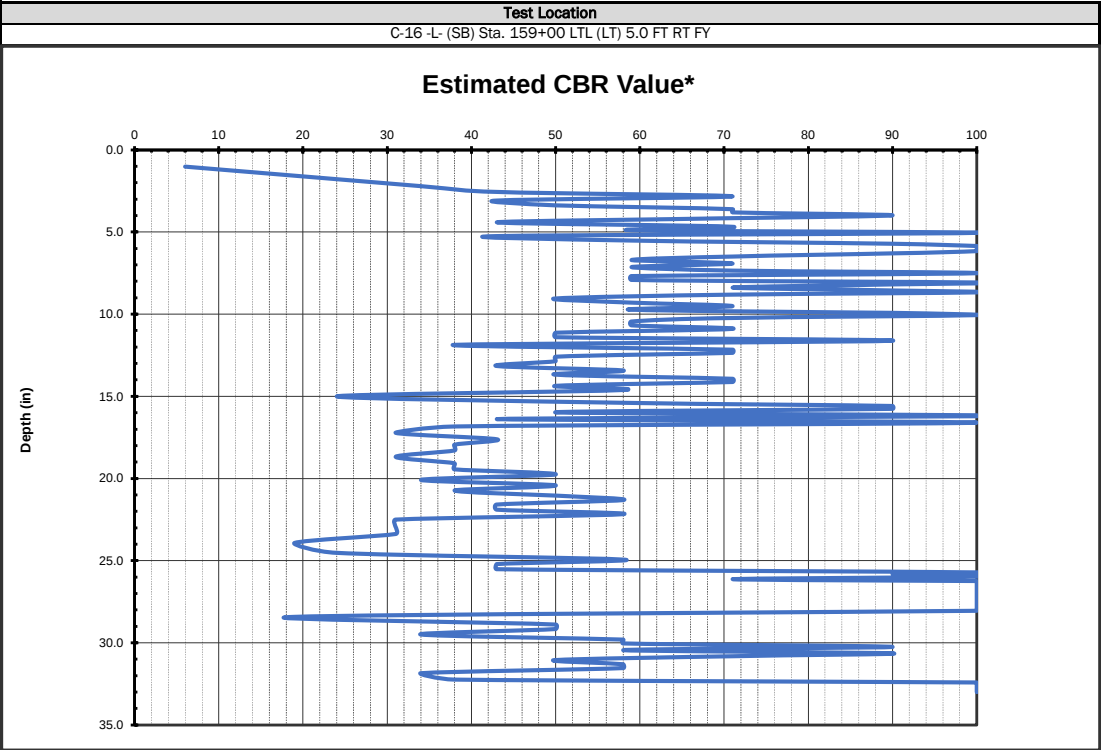
ABC	
ABC Thickness (in)	7.50
Average CBR	97
Weighted CBR Average	93
Maximum CBR Value	100
Minimum CBR Value	43

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)

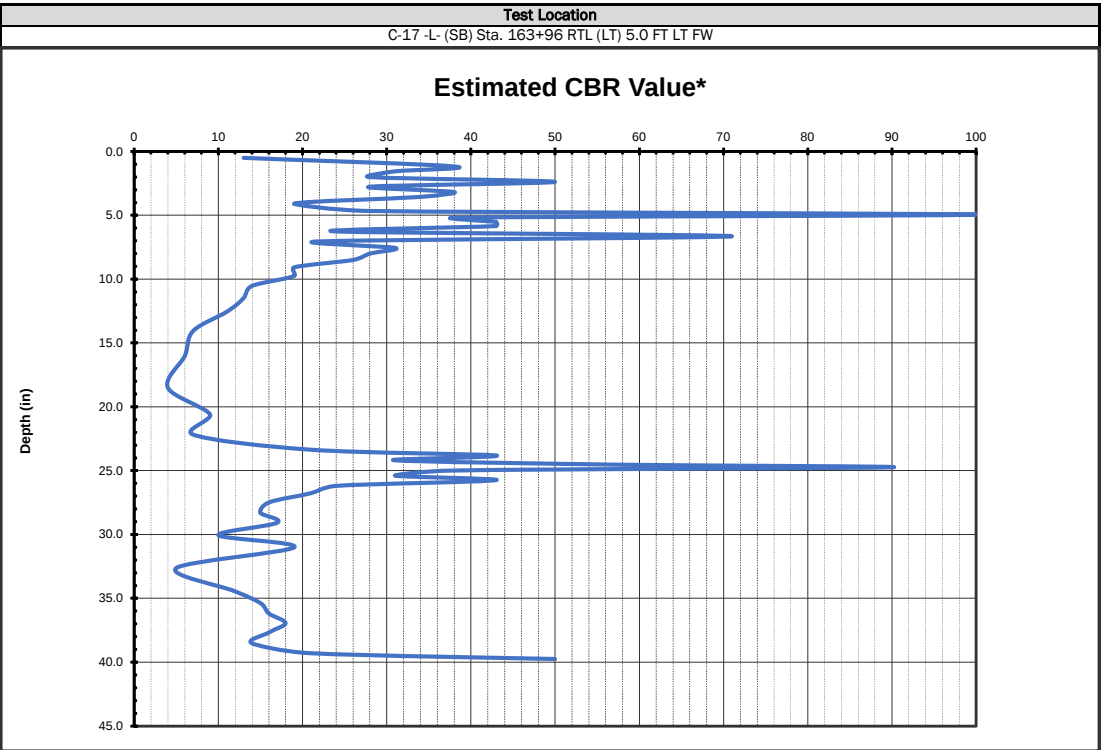


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.		ROUTE	
				48470.1.1	R-5921		US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL		DRILLER/HELPER	
				Haywood	T. Wenner, P.G.		M. Brewer, P. Tomasic	
Test Location				Date Run	Test 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		Cut/Fill
DCP	Cumulative cm per blow		ABC	6.0 ft Fill	DCP	Cumulative cm per blow		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	50/0"		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



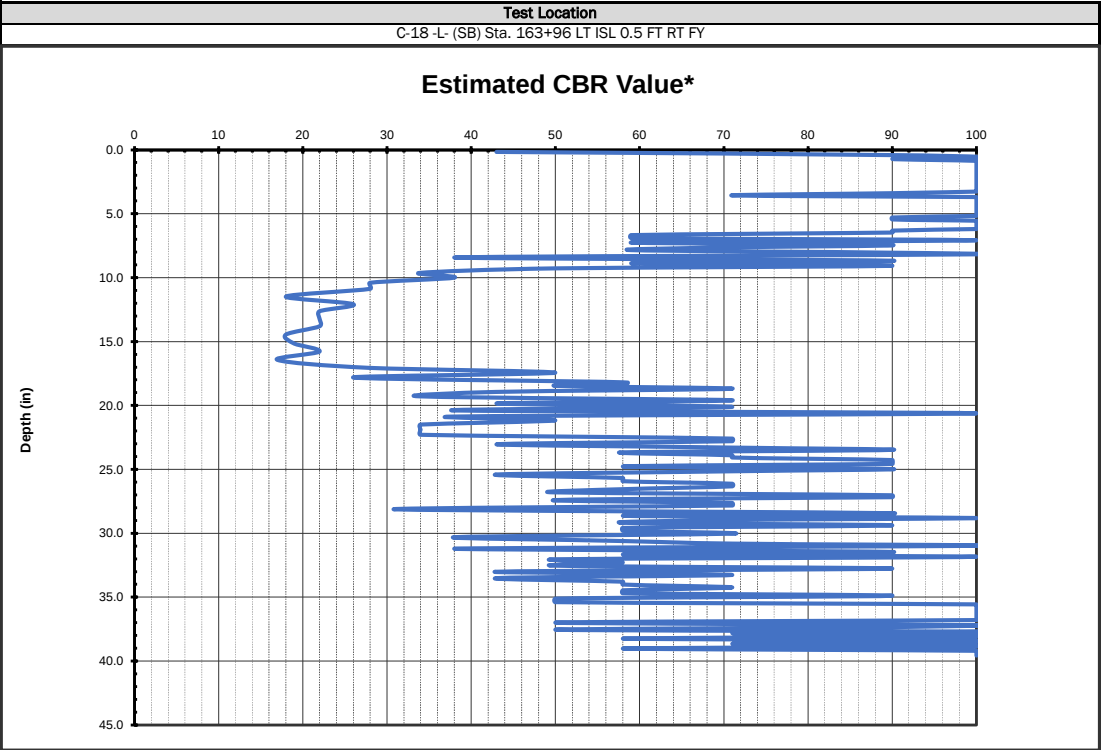
ABC	
ABC Thickness (in)	8.25
Average CBR	37
Weighted CBR Average	31
Maximum CBR Value	100
Minimum CBR Value	13

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)

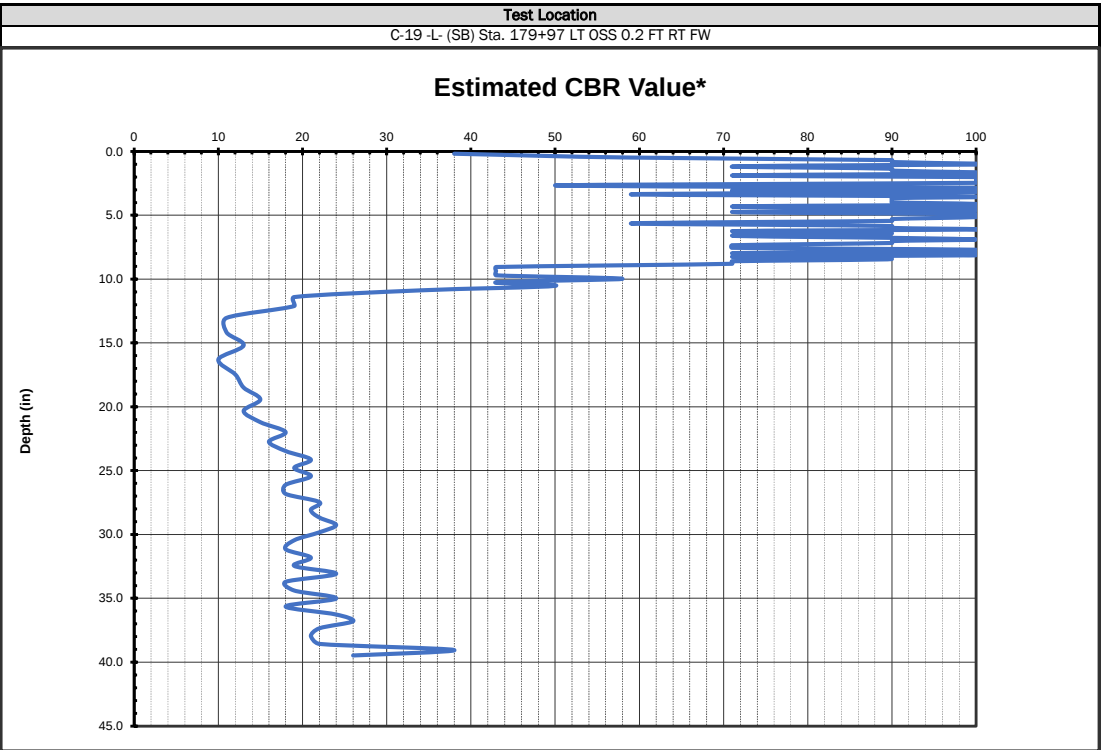


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



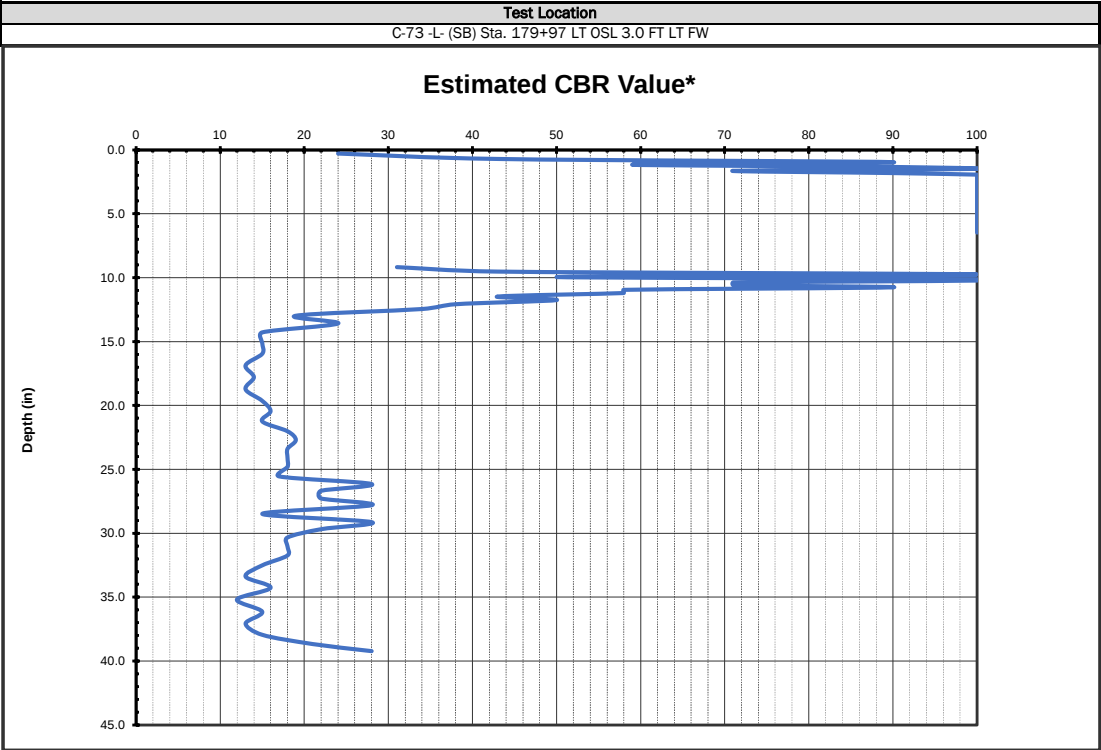
ABC	
ABC Thickness (in)	7.25
Average CBR	88
Weighted CBR Average	82
Maximum CBR Value	100
Minimum CBR Value	38

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)

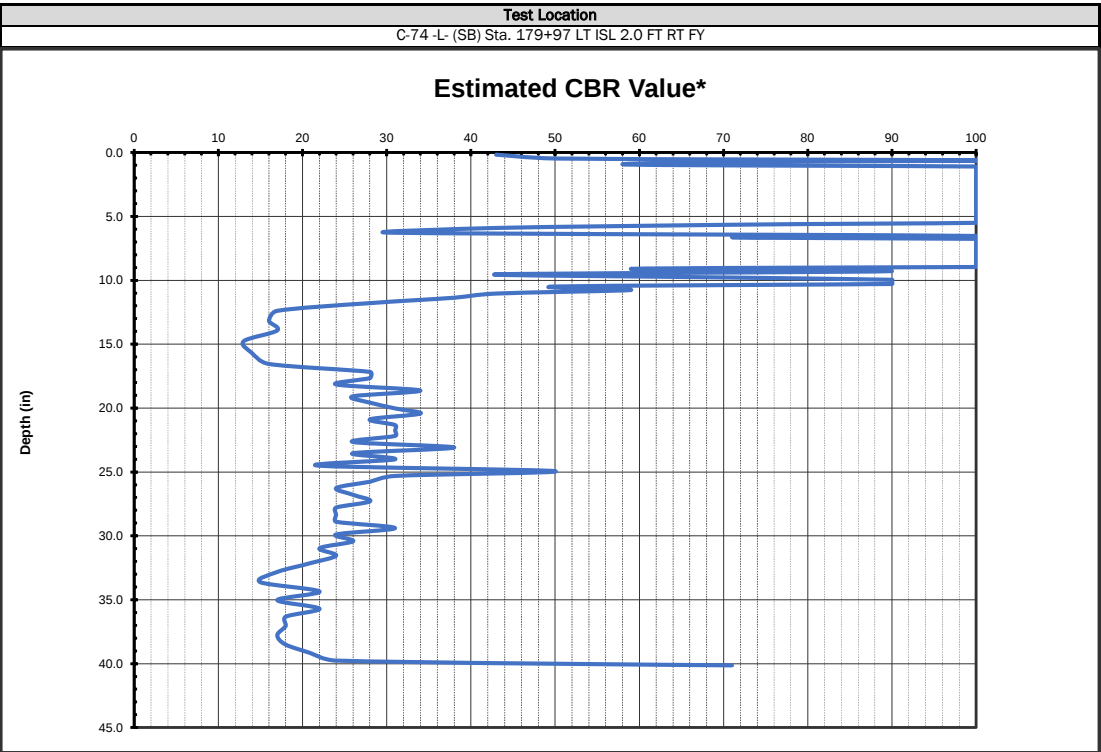


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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 5.9					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



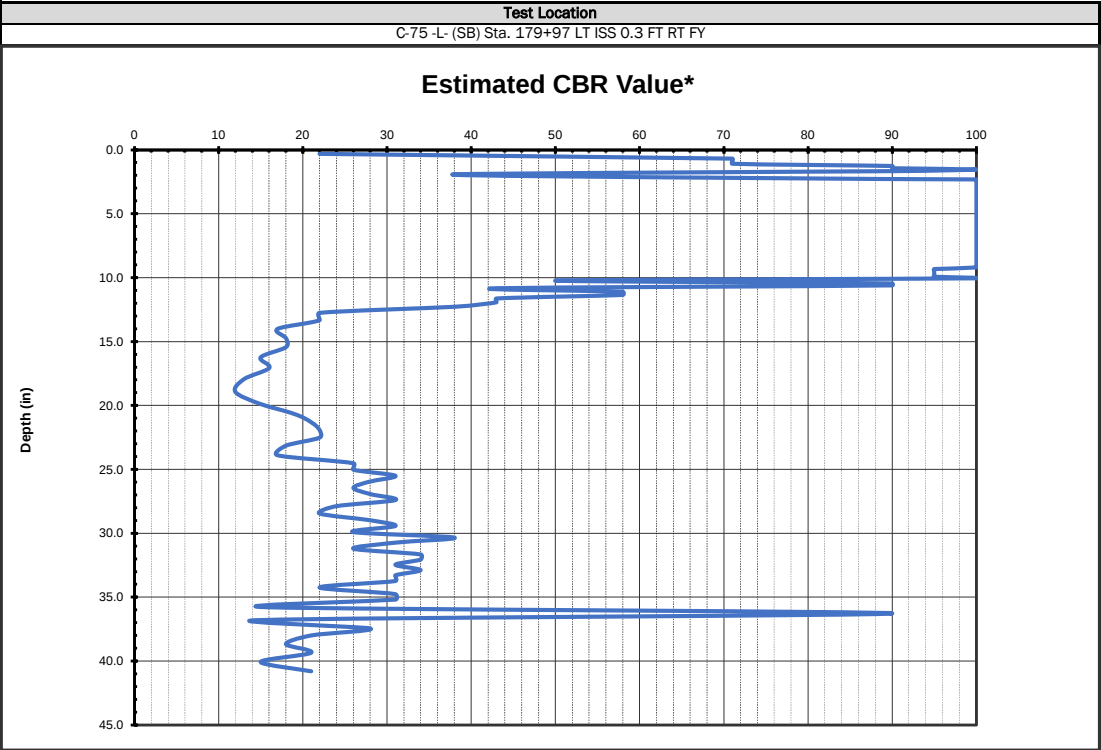
ABC	
ABC Thickness (in)	11.00
Average CBR	95
Weighted CBR Average	84
Maximum CBR Value	100
Minimum CBR Value	31

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)

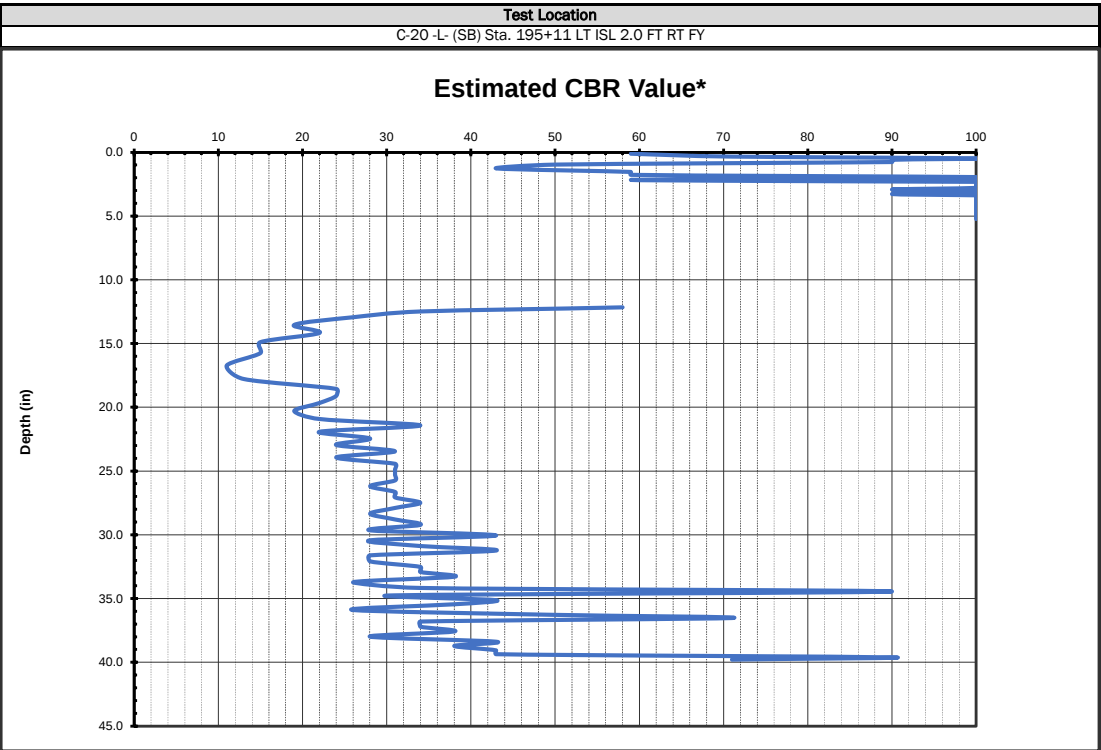


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run			
C-75 -L- (SB) Sta. 179+97 LT ISS 0.3 FT RT FY				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 16.1					
5.80	18.00	74.20				5.00	TO 28.4 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



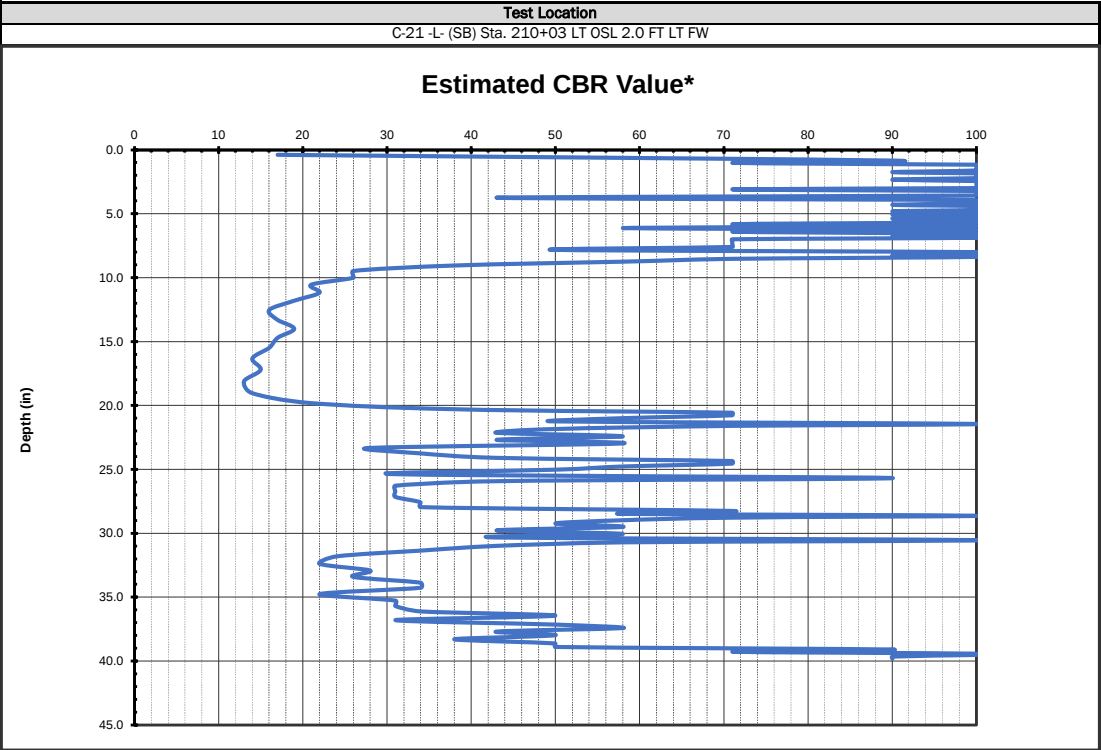
ABC	
ABC Thickness (in)	9.75
Average CBR	94
Weighted CBR Average	26
Maximum CBR Value	100
Minimum CBR Value	1

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)

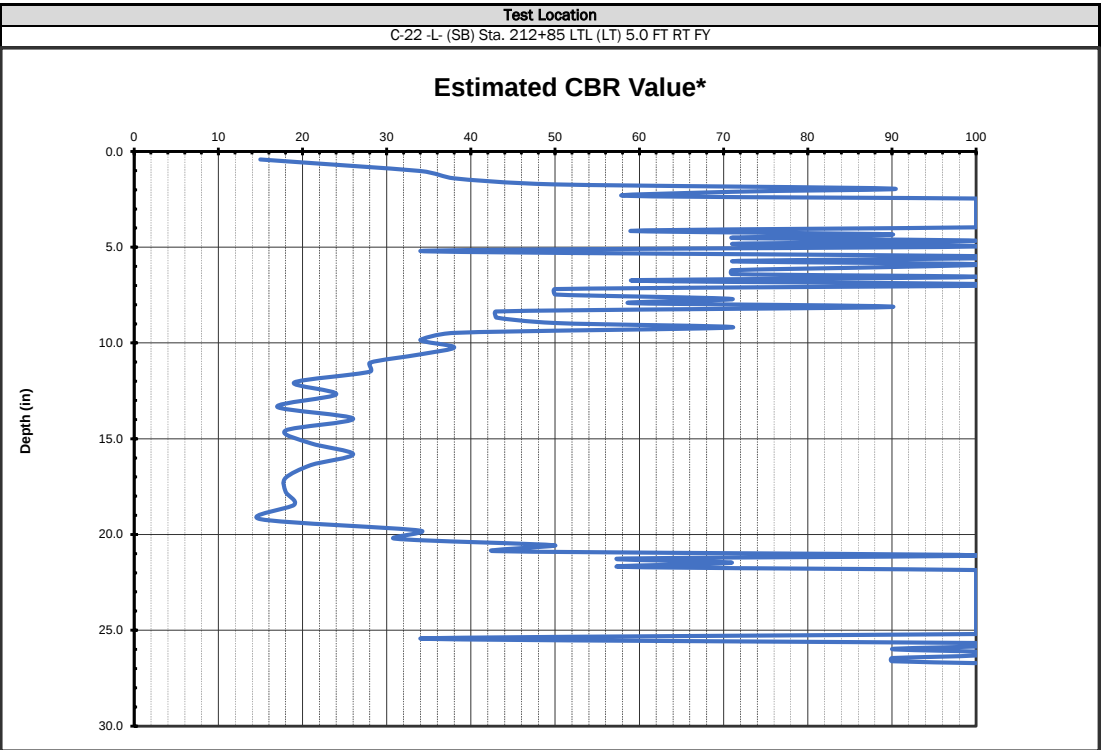


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	50/4.0"				
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



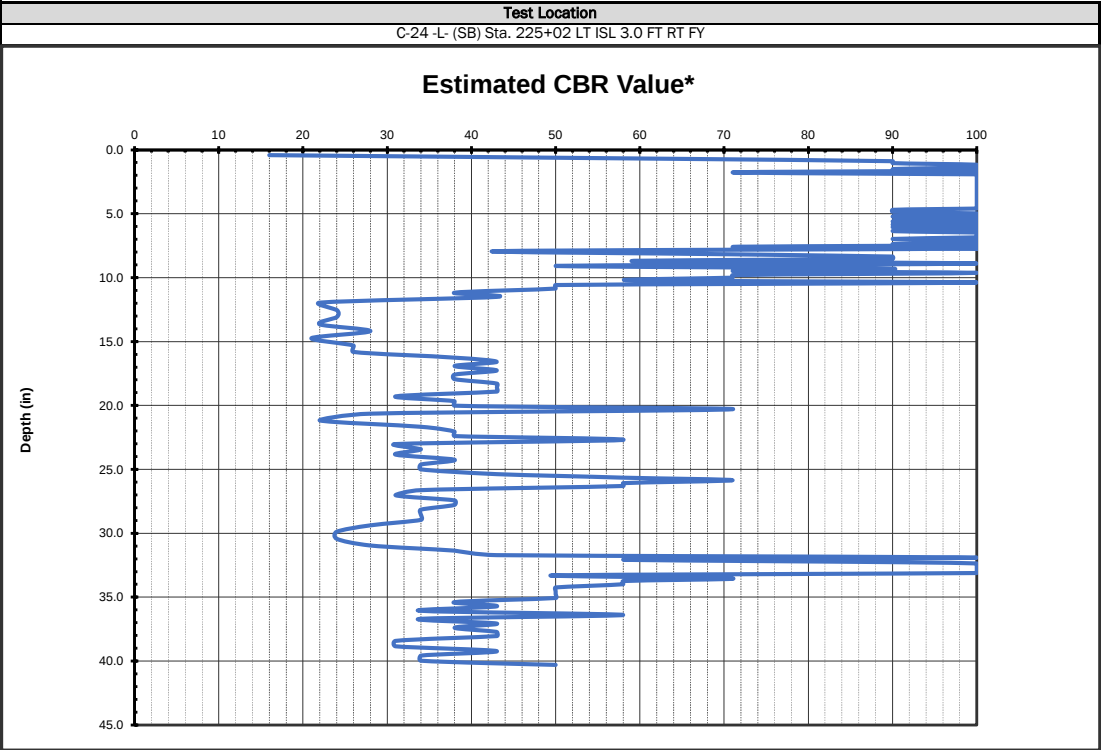
ABC	
ABC Thickness (in)	8.00
Average CBR	82
Weighted CBR Average	67
Maximum CBR Value	100
Minimum CBR Value	15

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)

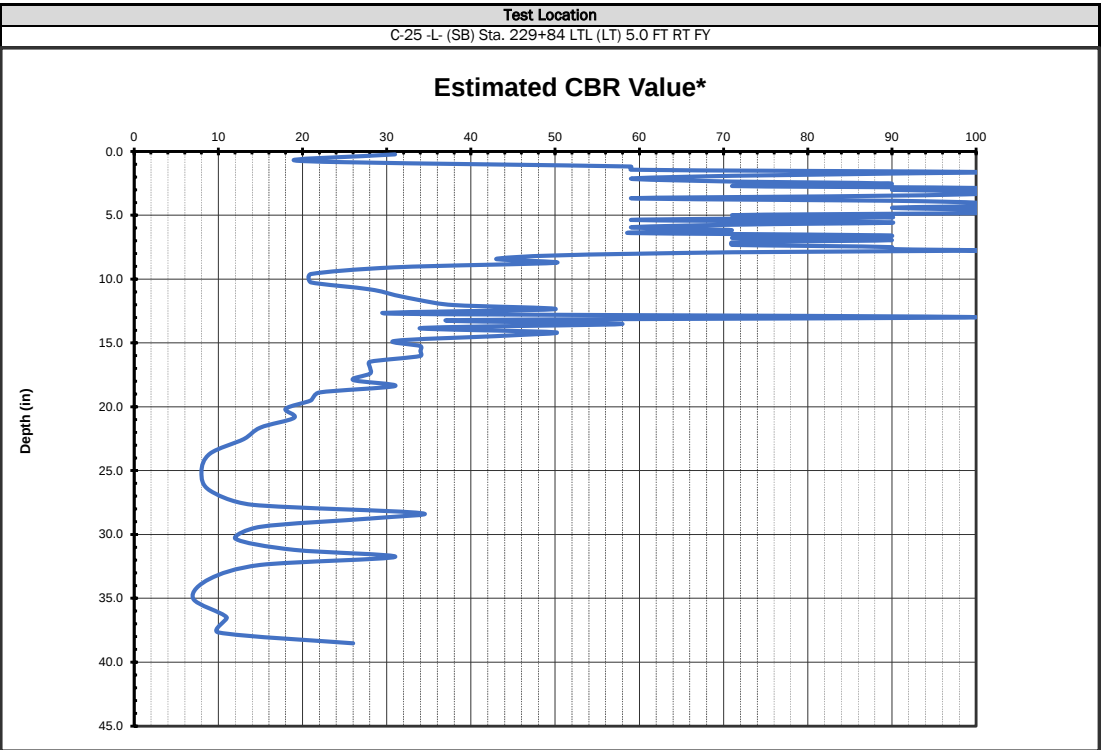


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



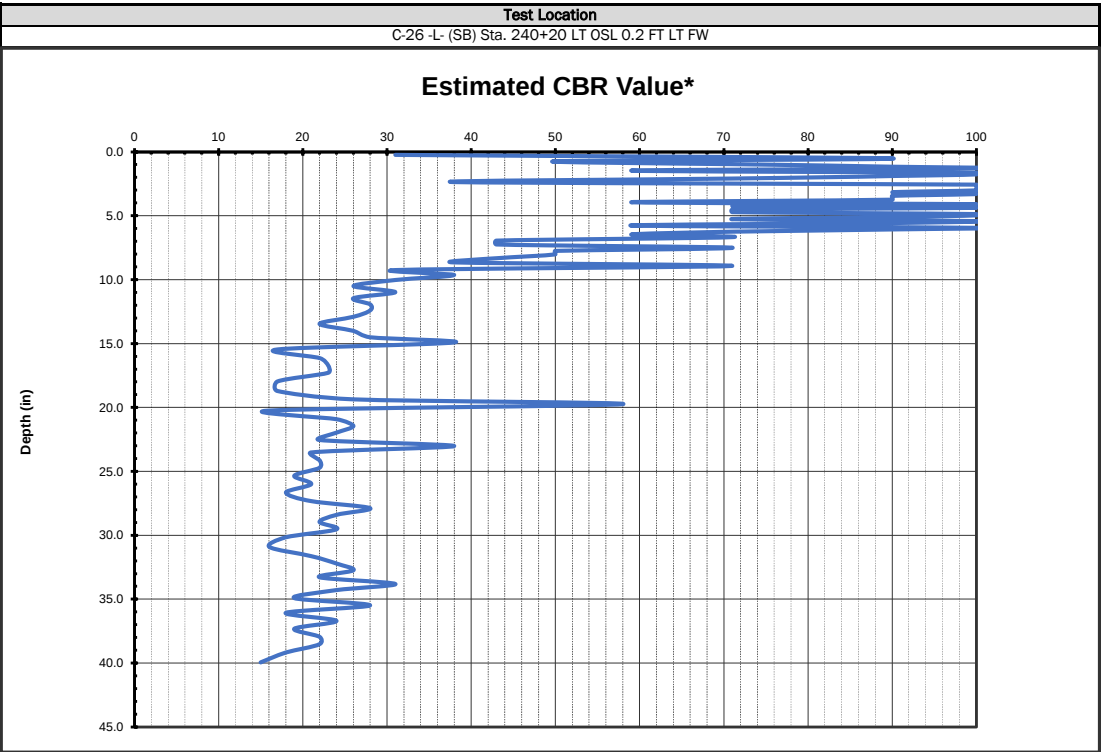
ABC	
ABC Thickness (in)	9.00
Average CBR	79
Weighted CBR Average	70
Maximum CBR Value	100
Minimum CBR Value	20

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)

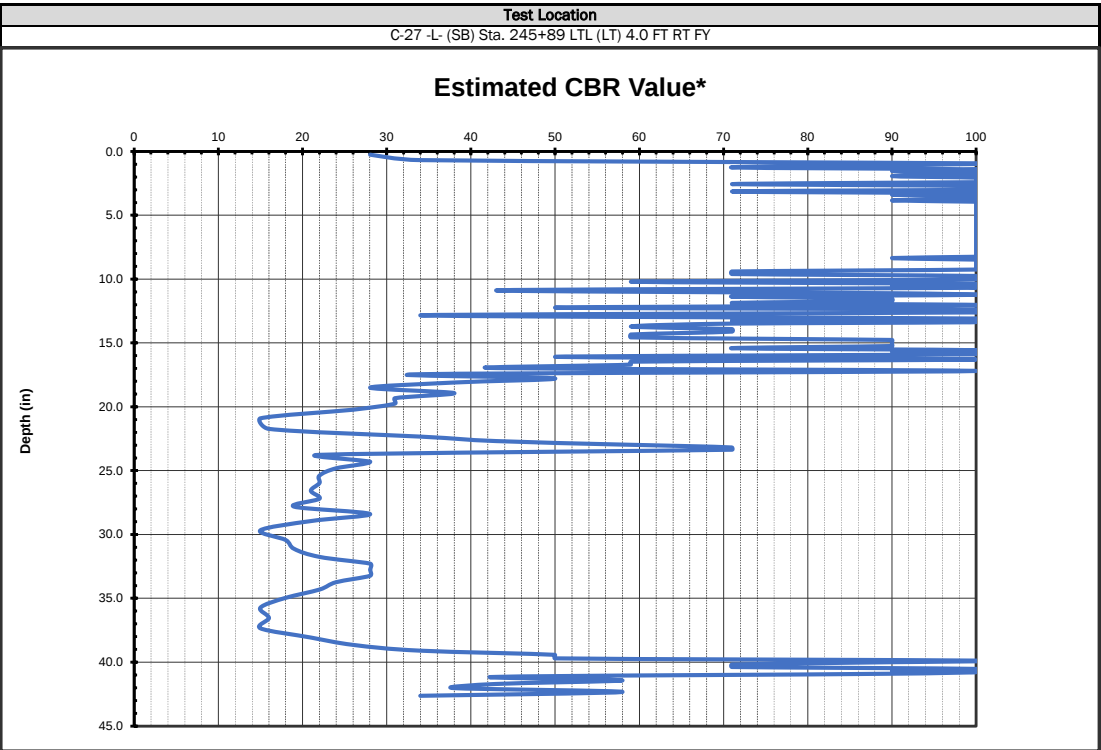


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



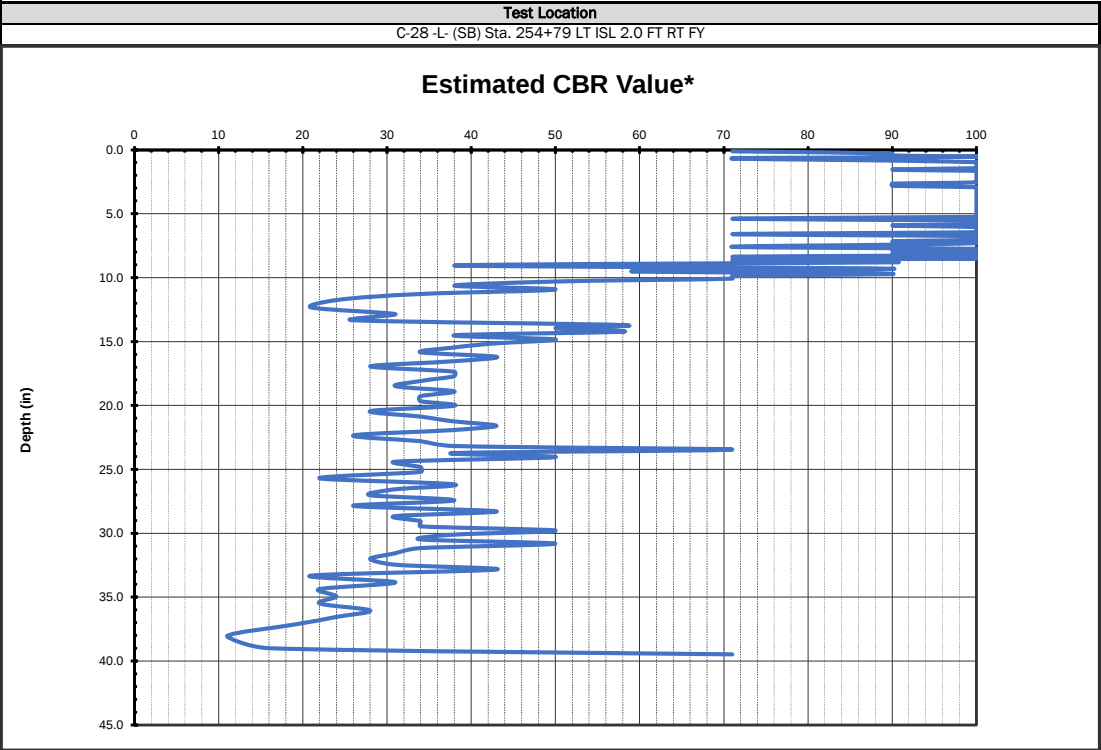
ABC	
ABC Thickness (in)	18.50
Average CBR	91
Weighted CBR Average	80
Maximum CBR Value	100
Minimum CBR Value	28

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)

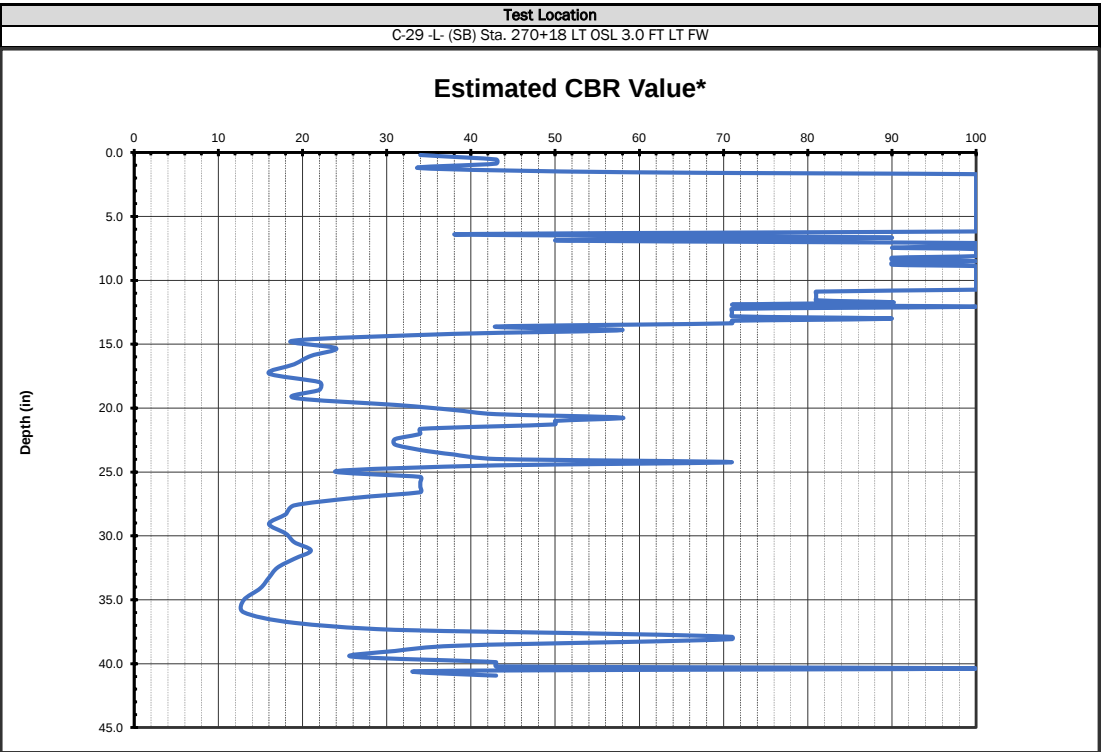


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



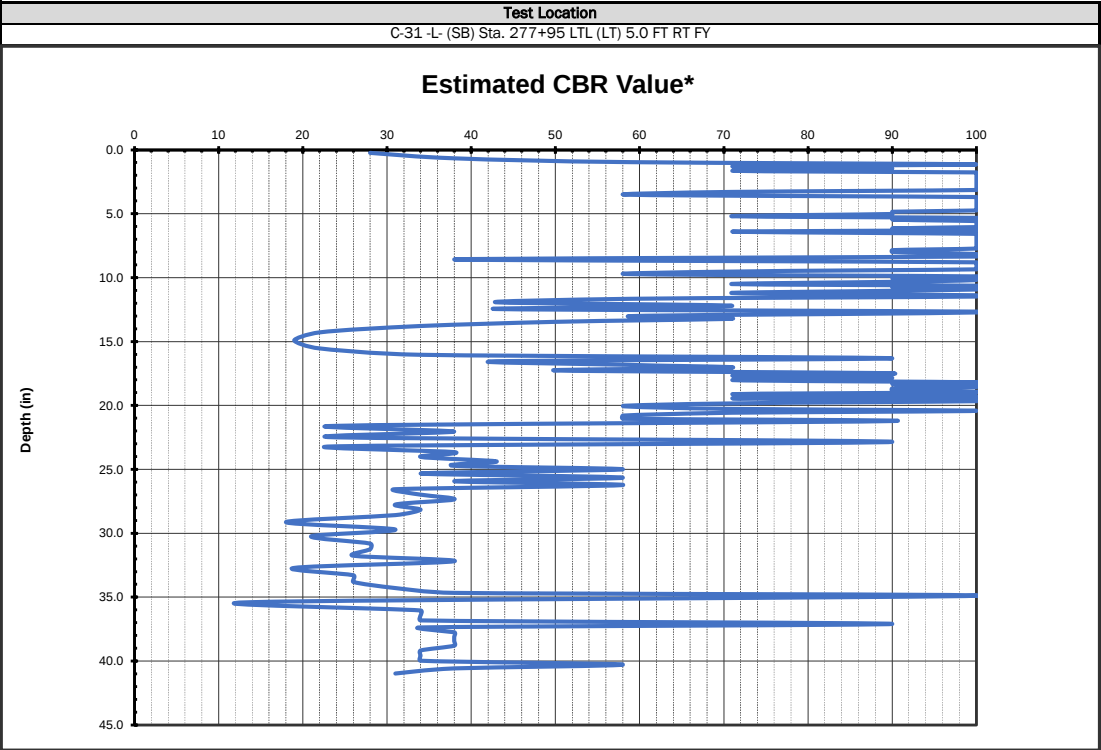
ABC	
ABC Thickness (in)	9.00
Average CBR	95
Weighted CBR Average	84
Maximum CBR Value	100
Minimum CBR Value	34

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)

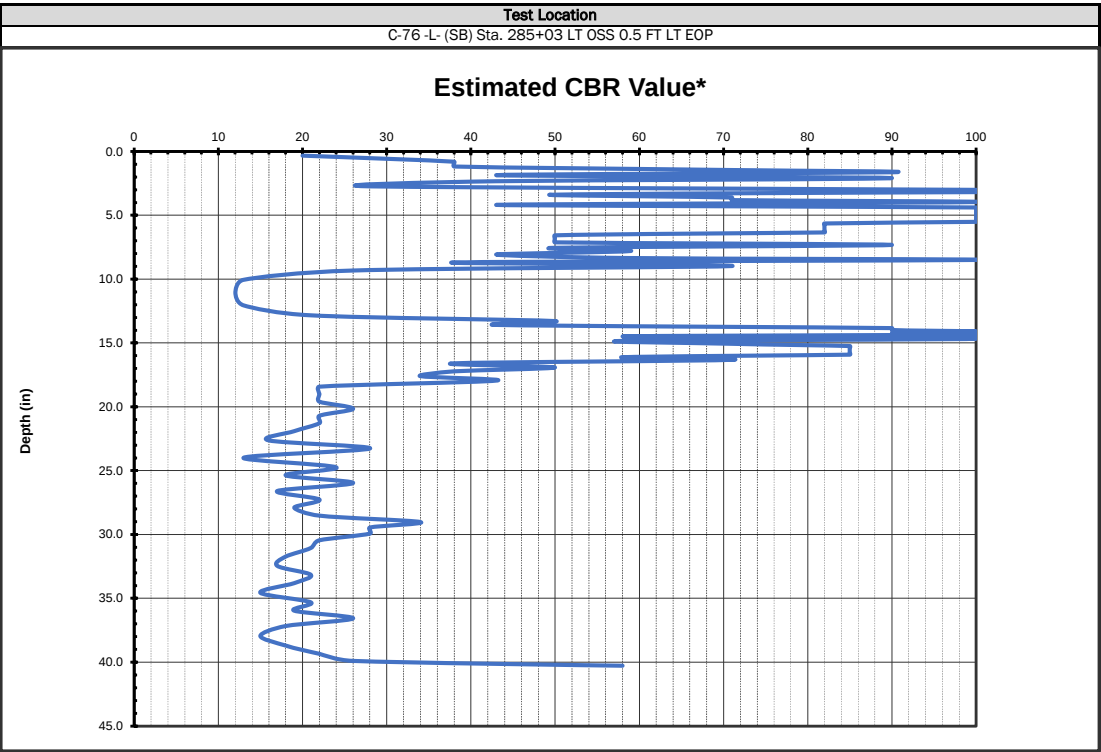


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



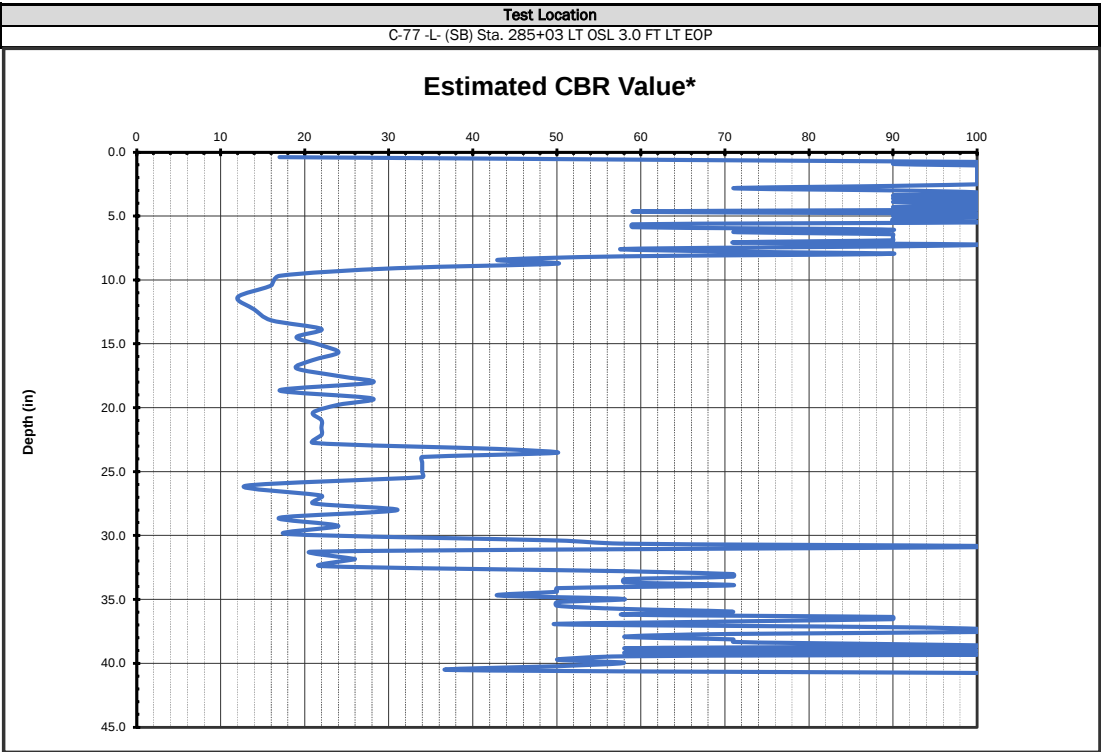
ABC	
ABC Thickness (in)	8.75
Average CBR	75
Weighted CBR Average	61
Maximum CBR Value	100
Minimum CBR Value	20

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)

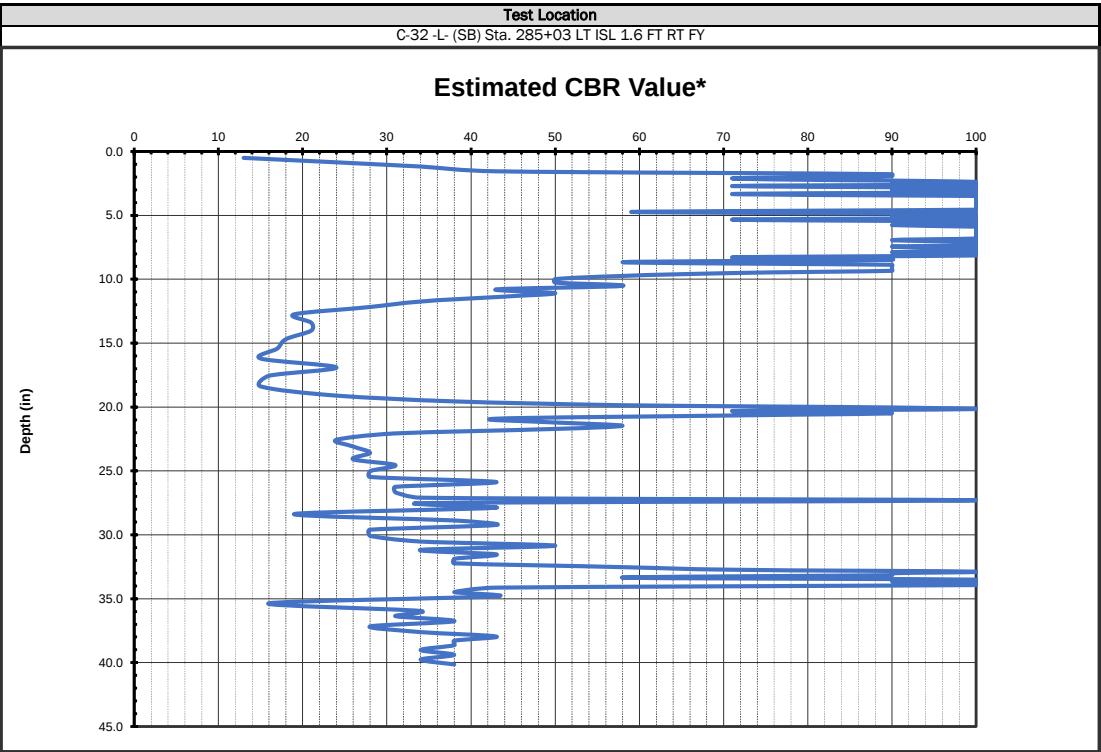


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



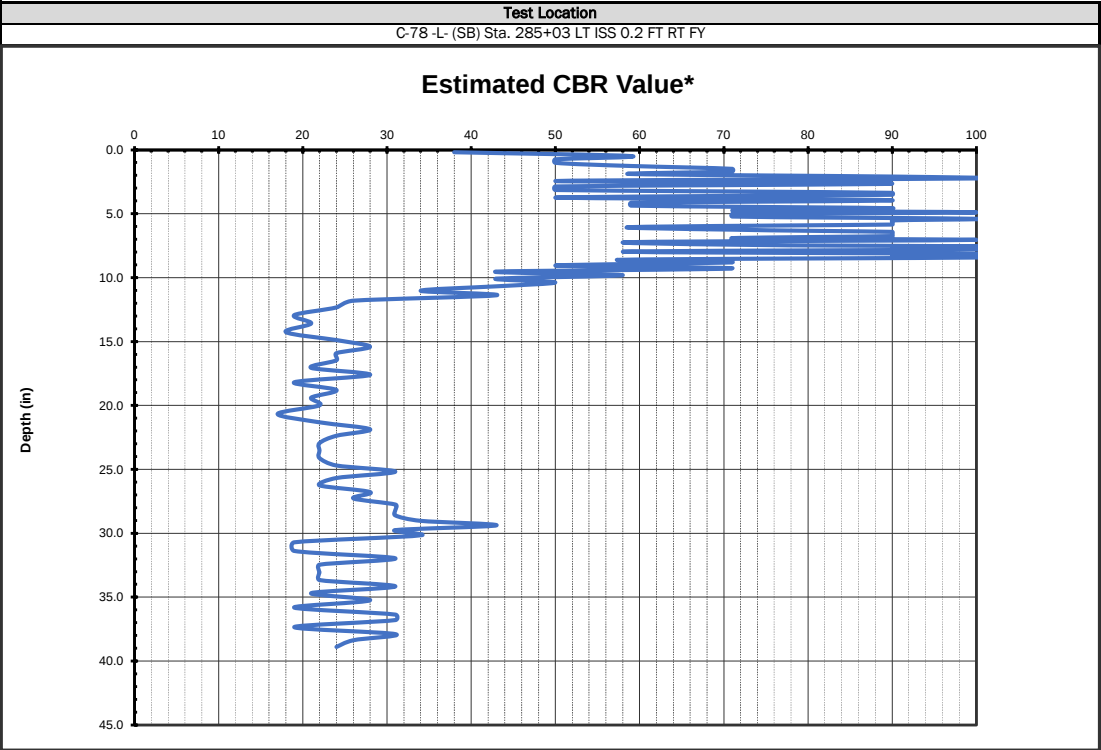
ABC	
ABC Thickness (in)	8.00
Average CBR	93
Weighted CBR Average	78
Maximum CBR Value	100
Minimum CBR Value	13

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)

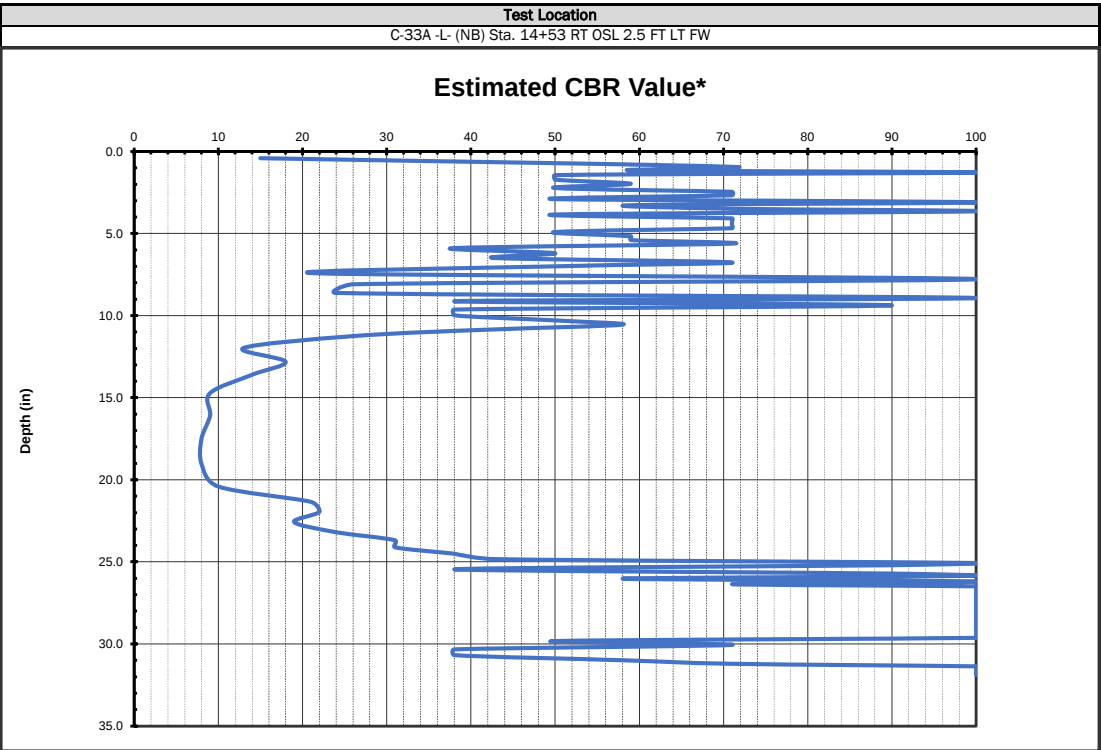


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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			
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	80/0.8"					
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



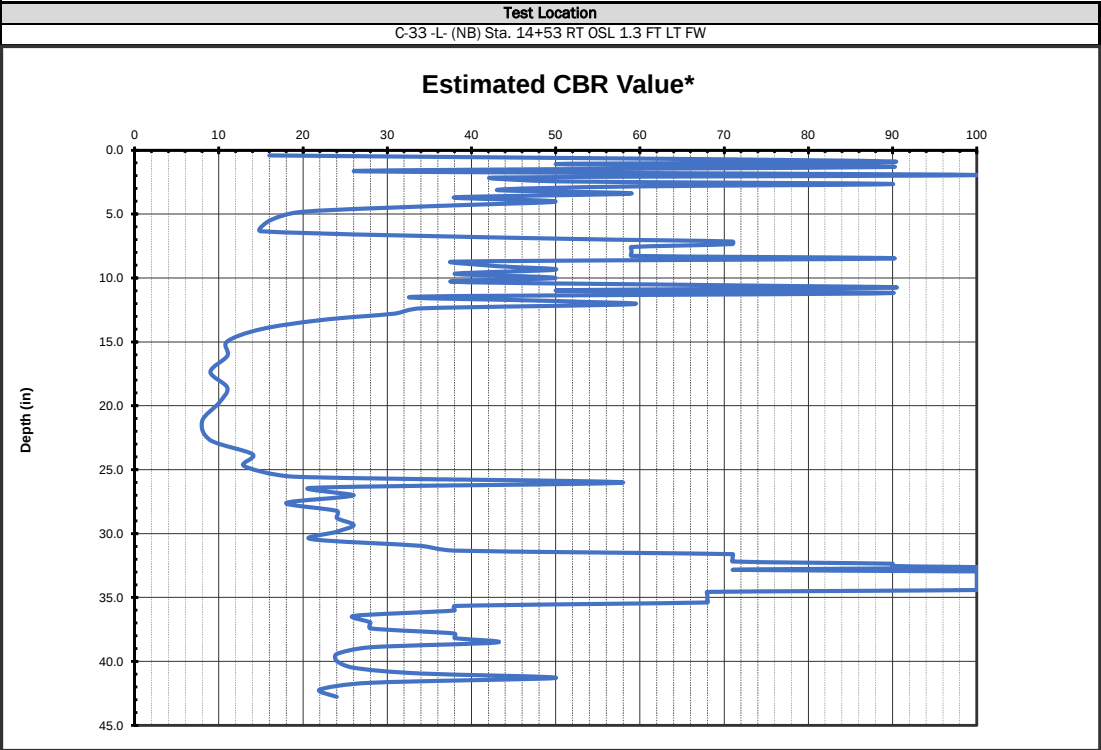
ABC	
ABC Thickness (in)	9.75
Average CBR	61
Weighted CBR Average	49
Maximum CBR Value	100
Minimum CBR Value	15

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)

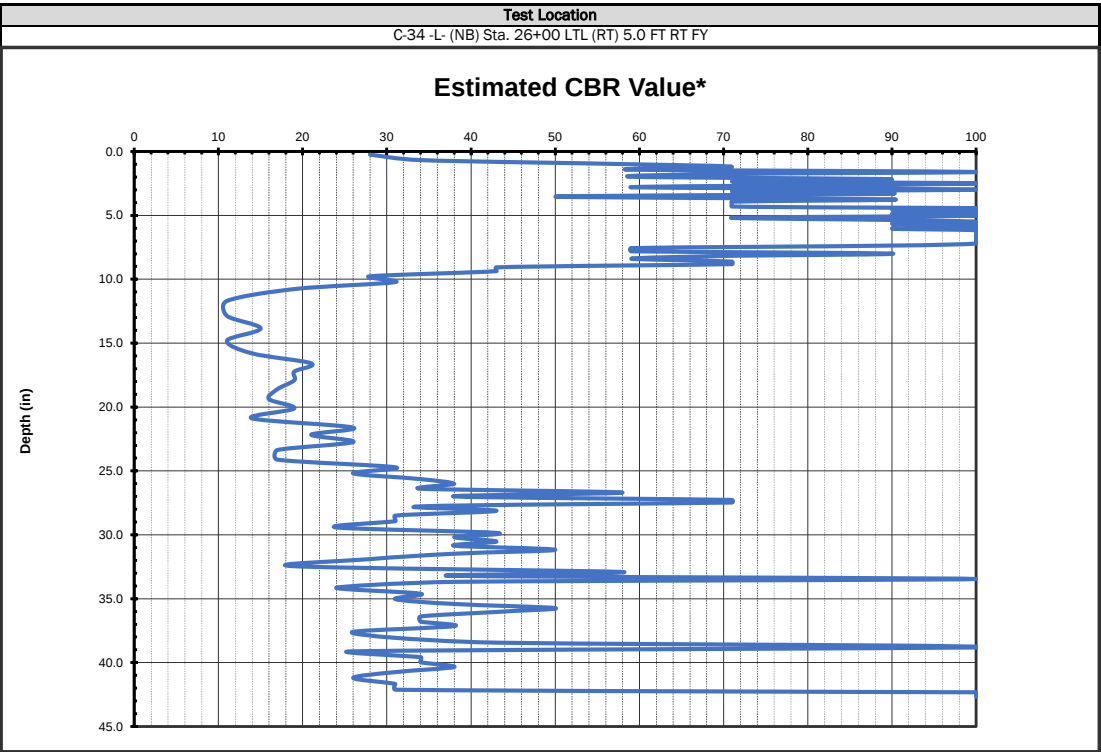


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.			ROUTE			
				48470.1.1	R-5921			US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL			DRILLER/HELPER			
				Haywood	T. Wenner, P.G.			M. Brewer, P. Tomasic			
Test Location				Date 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	90/0.4*				
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



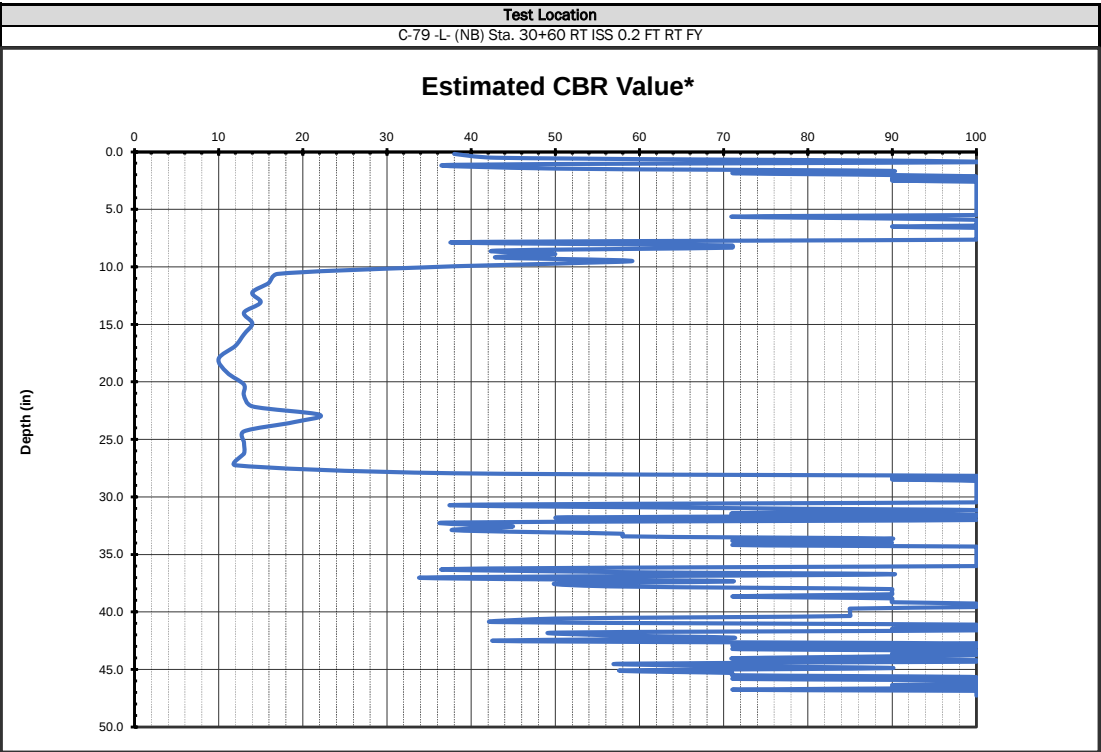
ABC	
ABC Thickness (in)	10.00
Average CBR	81
Weighted CBR Average	71
Maximum CBR Value	100
Minimum CBR Value	28

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)

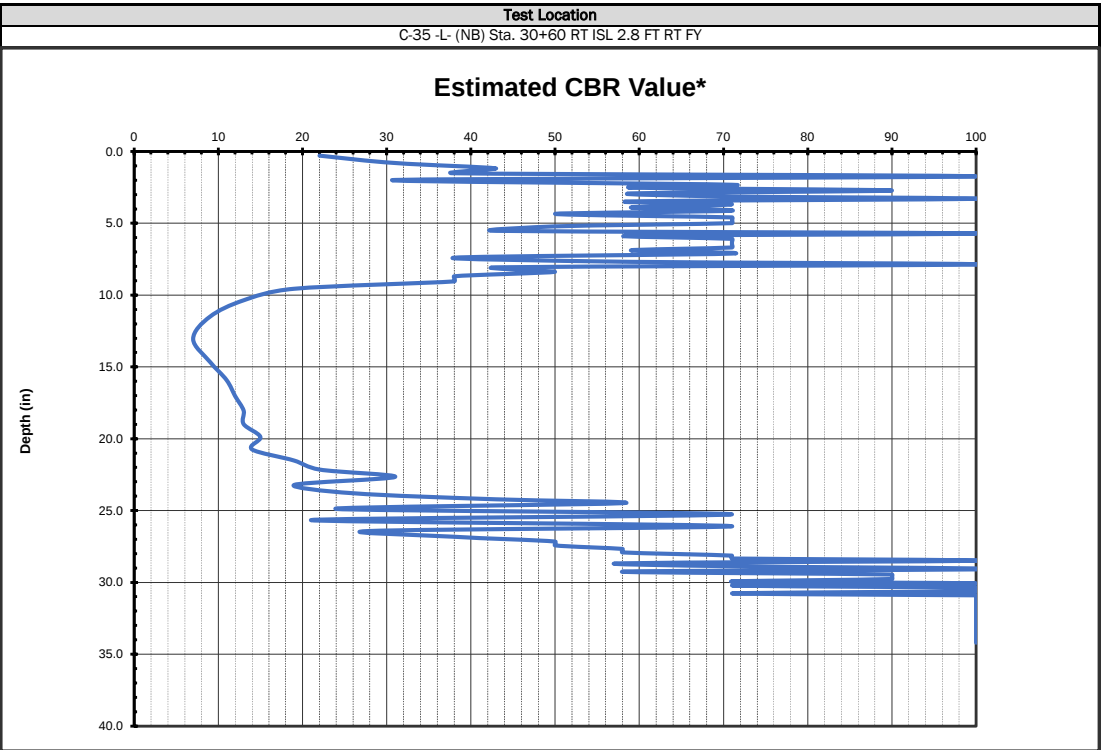


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET						WBS NO.	PROJECT TIP I.D.	ROUTE			
						48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
						COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER			
						Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic			
Test Location						Date Run	Test Location	Date Run			
C-79 -L- (NB) Sta. 30+60 RT ISS 0.2 FT RT FY						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	86.94		
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	86.94			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



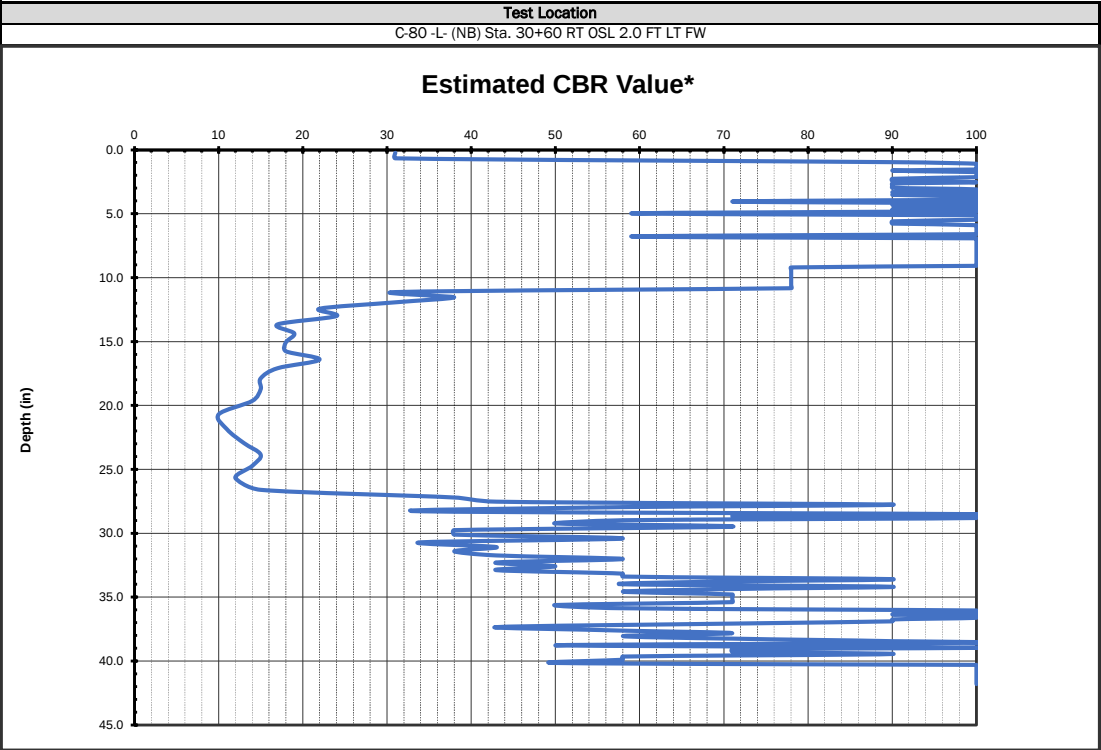
ABC	
ABC Thickness (in)	16.50
Average CBR	54
Weighted CBR Average	35
Maximum CBR Value	100
Minimum CBR Value	7

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)

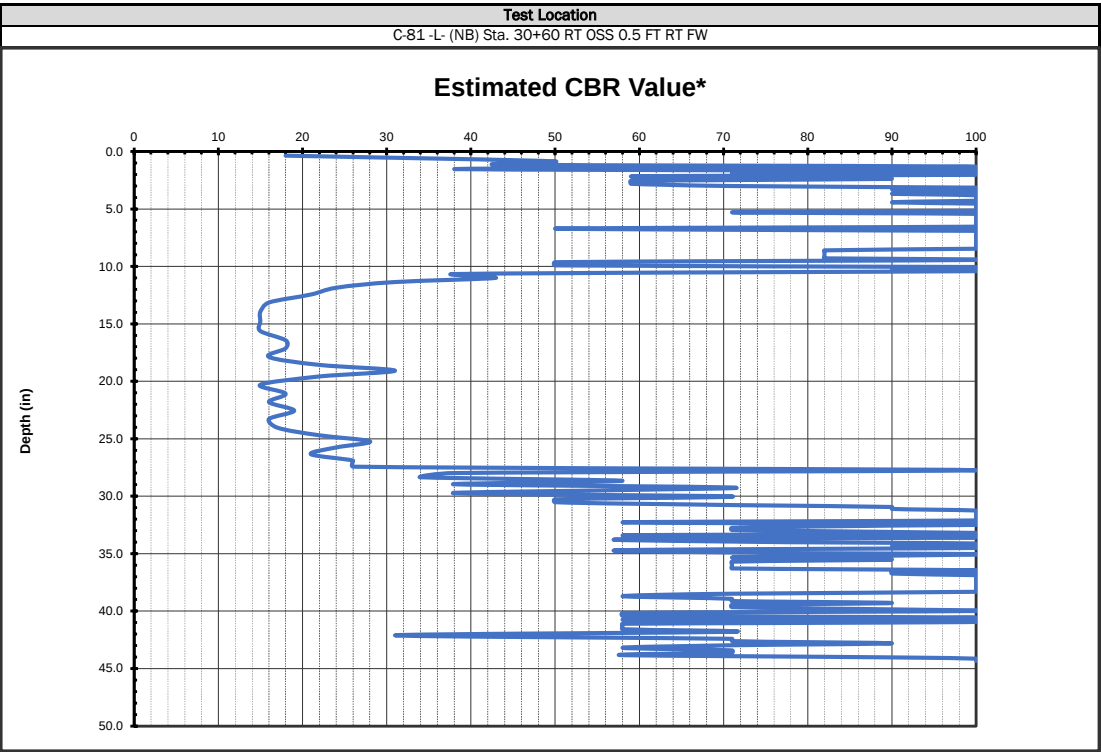


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	80/2.0"			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



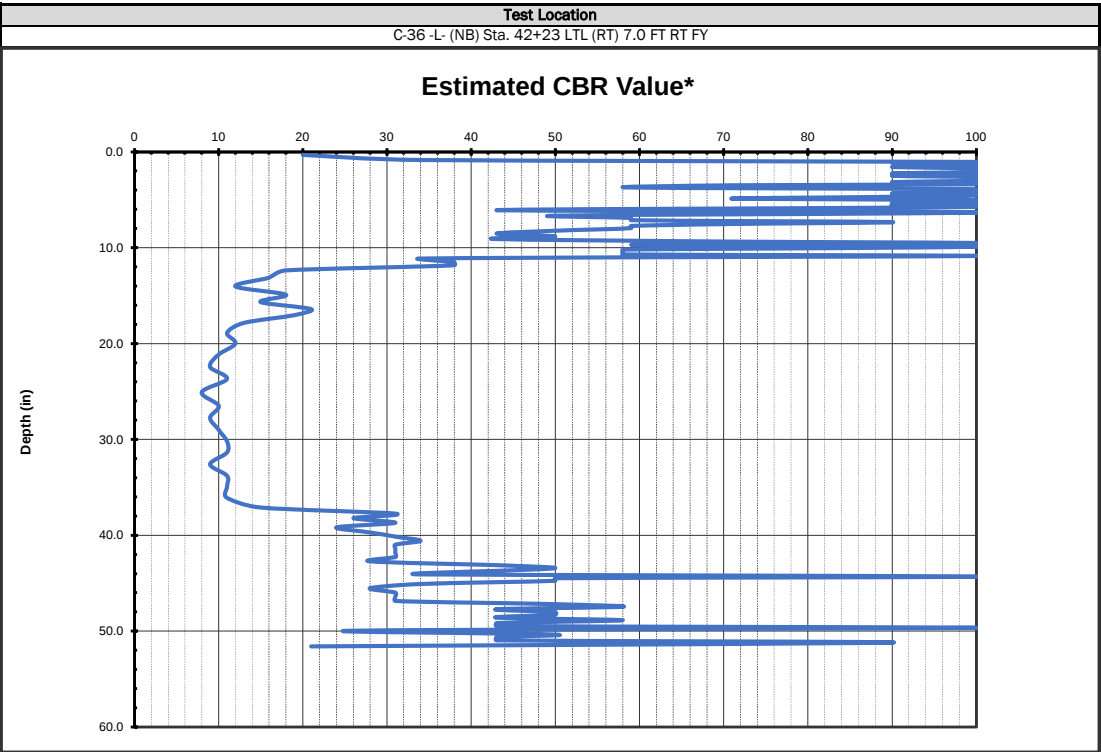
ABC	
ABC Thickness (in)	11.00
Average CBR	90
Weighted CBR Average	76
Maximum CBR Value	100
Minimum CBR Value	18

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)

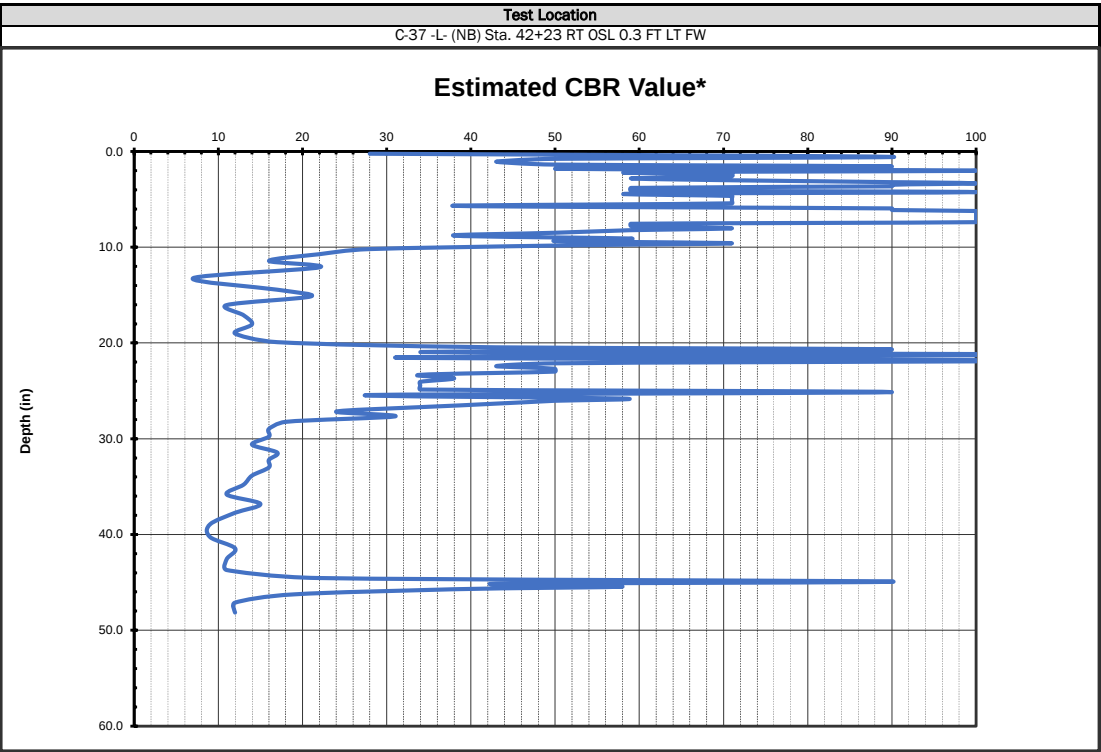


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



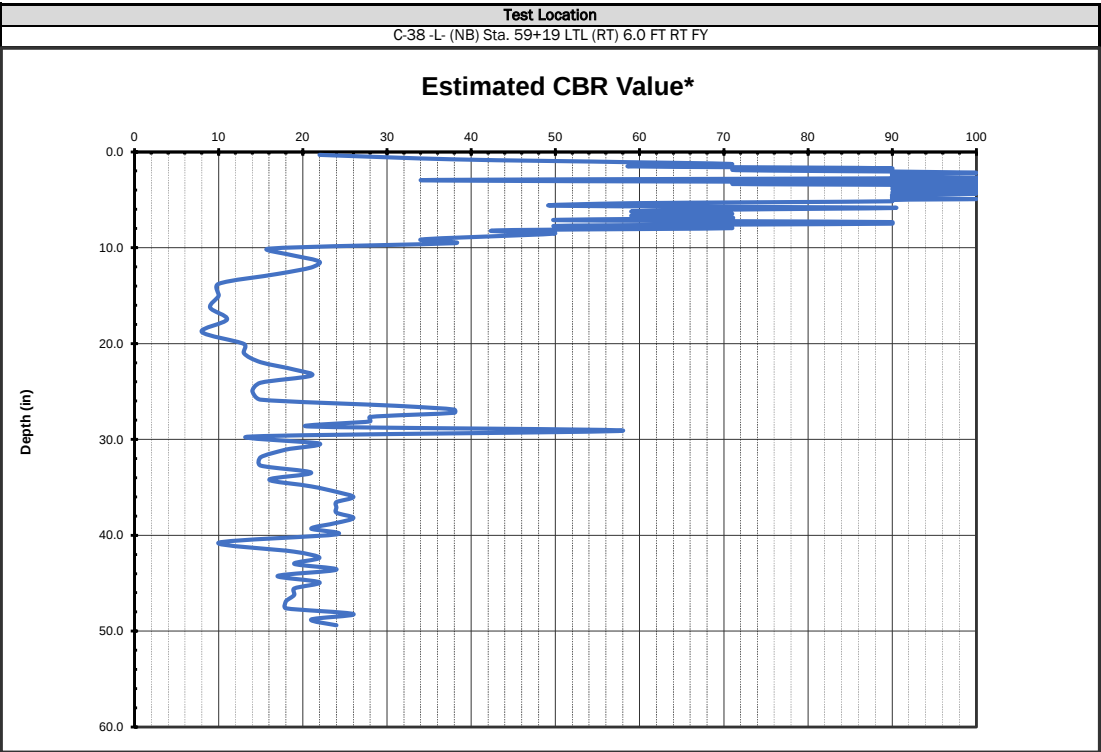
ABC	
ABC Thickness (in)	9.75
Average CBR	77
Weighted CBR Average	67
Maximum CBR Value	100
Minimum CBR Value	28

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)

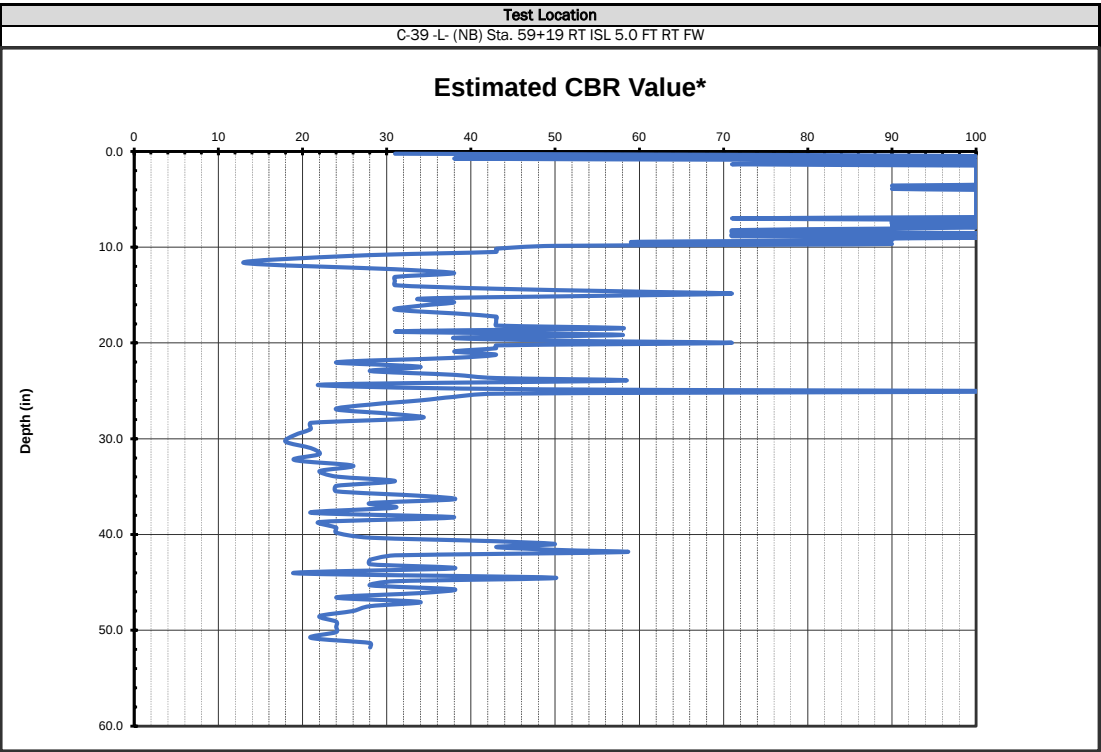


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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			
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



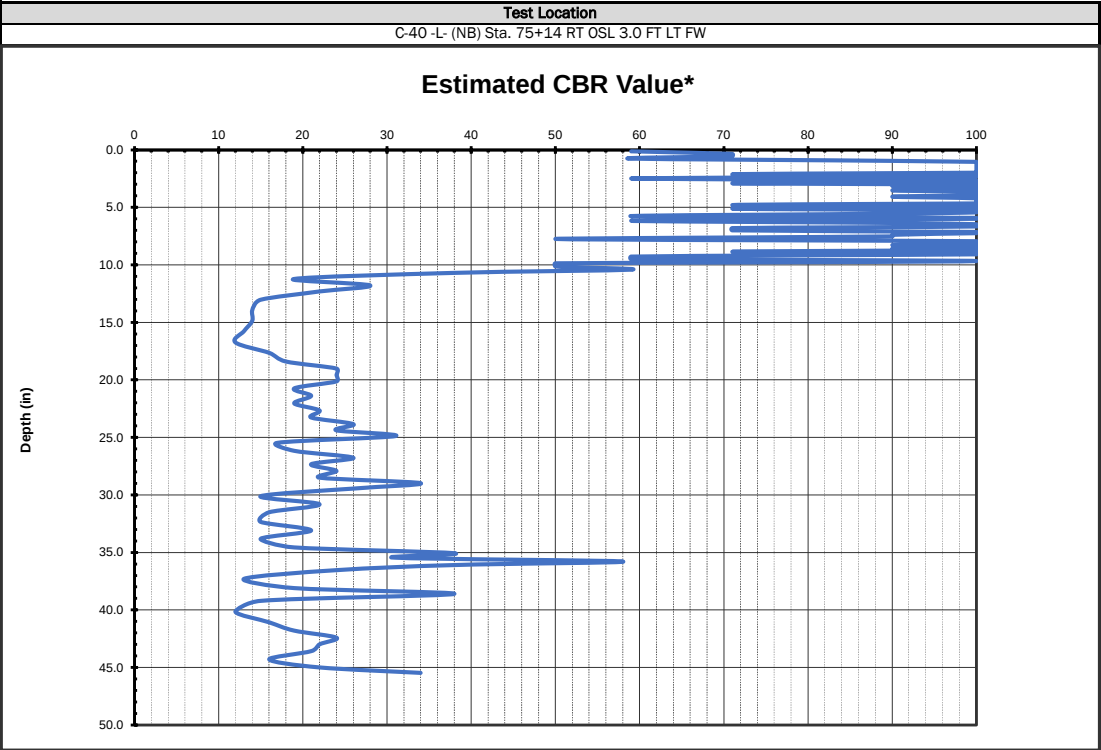
ABC	
ABC Thickness (in)	11.25
Average CBR	94
Weighted CBR Average	82
Maximum CBR Value	100
Minimum CBR Value	26

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)

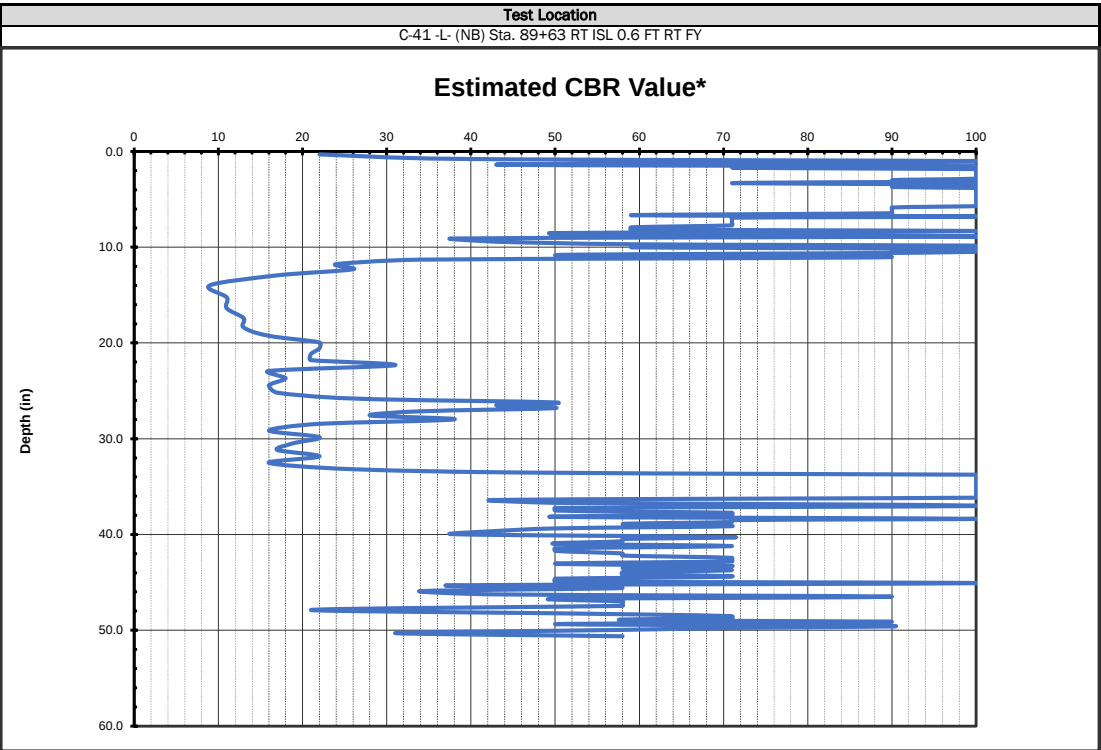


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



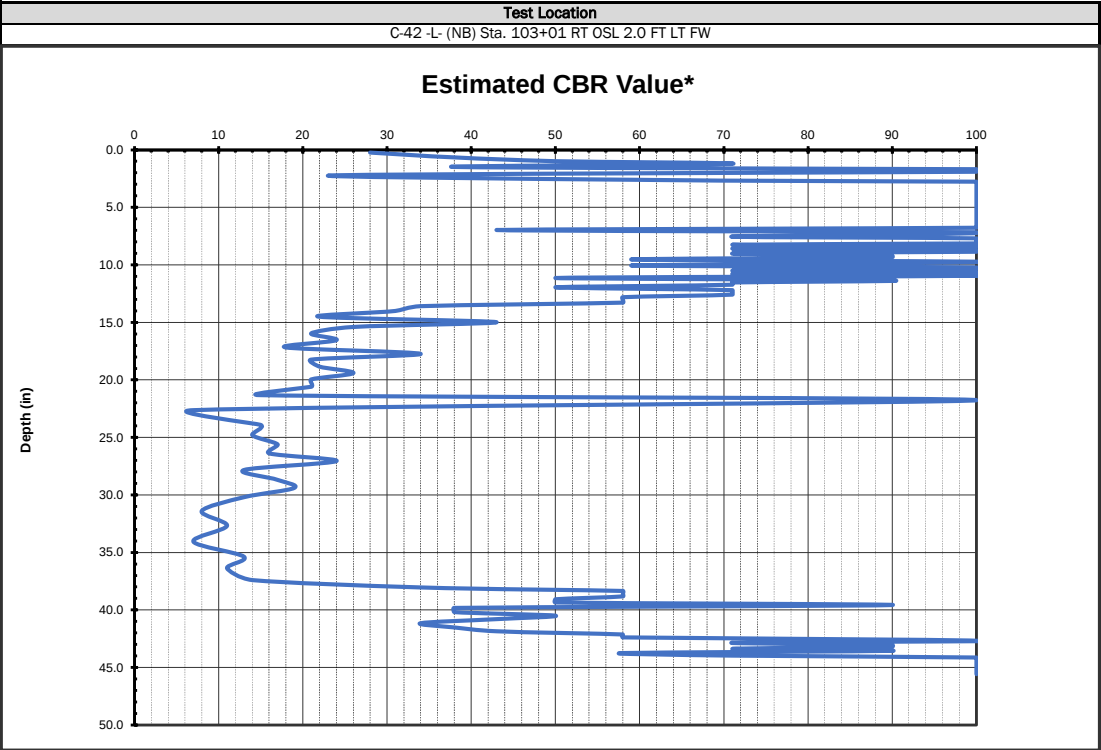
ABC	
ABC Thickness (in)	11.25
Average CBR	88
Weighted CBR Average	76
Maximum CBR Value	100
Minimum CBR Value	22

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)

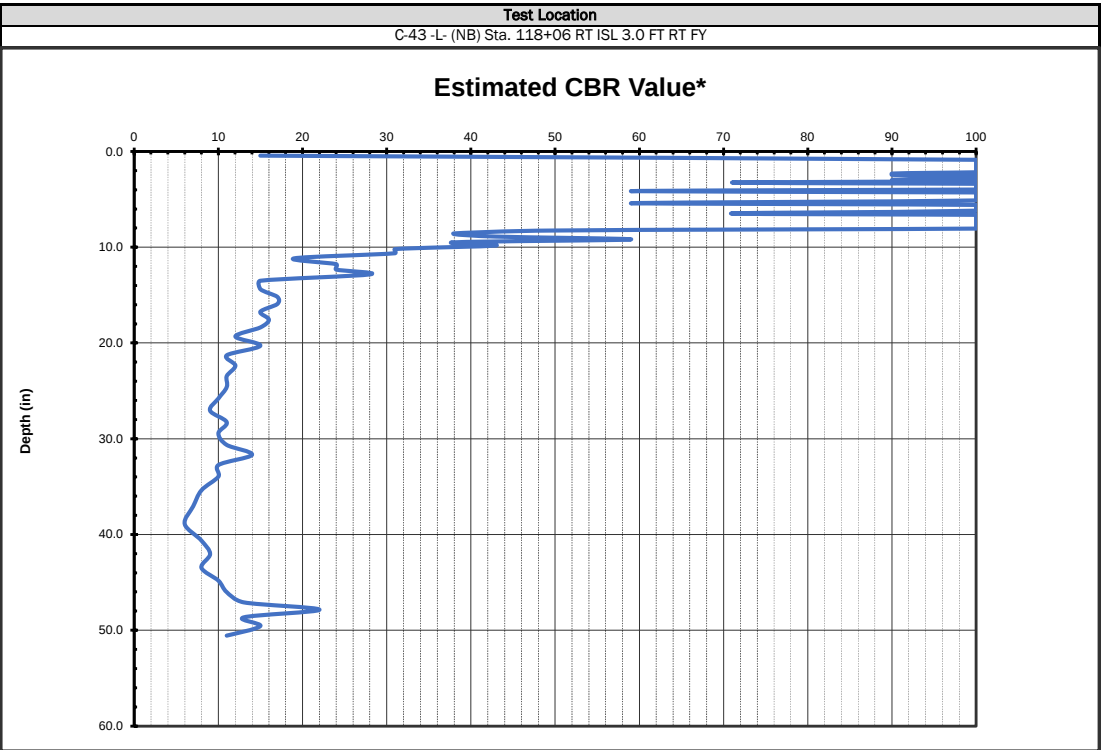


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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 REF			8.50	26.40					
11.42	23.50	105.00	50/3.0'			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



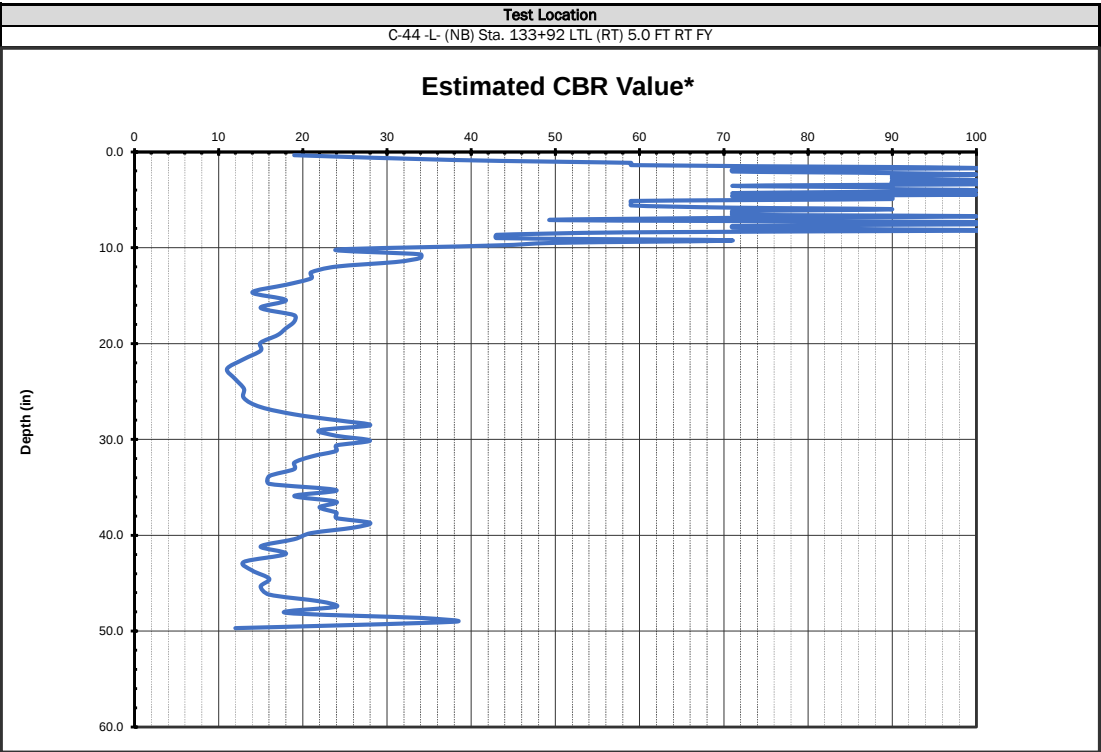
ABC	
ABC Thickness (in)	9.75
Average CBR	94
Weighted CBR Average	80
Maximum CBR Value	100
Minimum CBR Value	15

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)

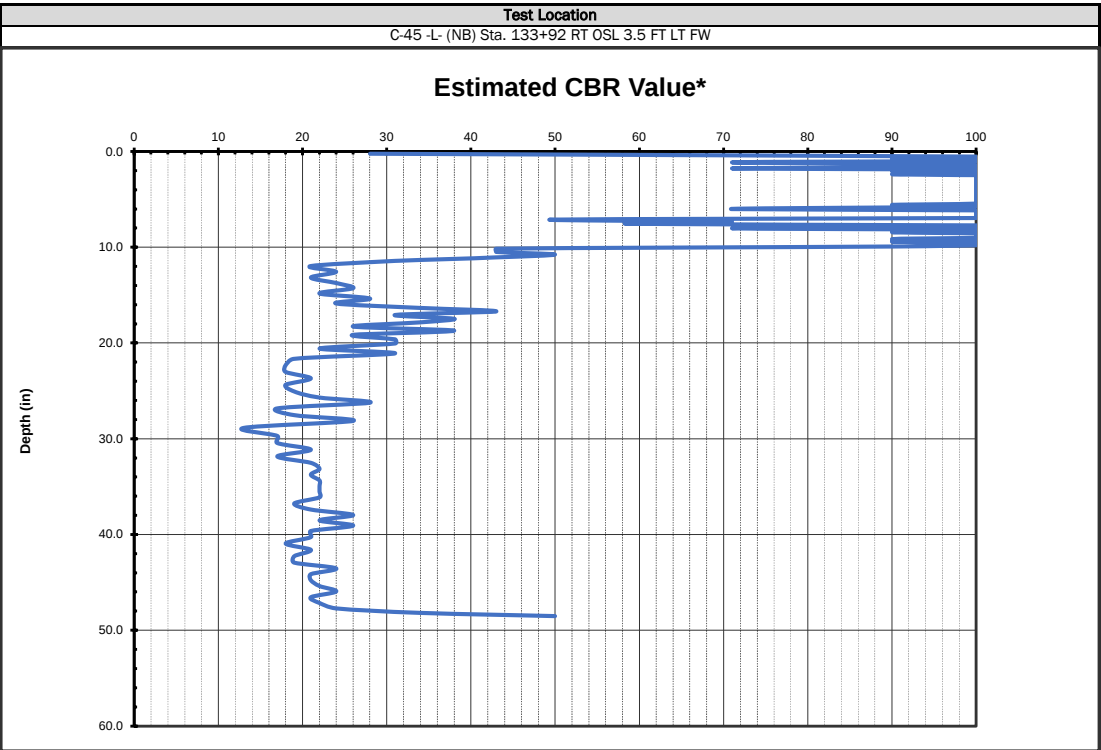


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET						WBS NO.	PROJECT TIP I.D.	ROUTE					
						48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40					
						COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER					
						Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic					
Test Location						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
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



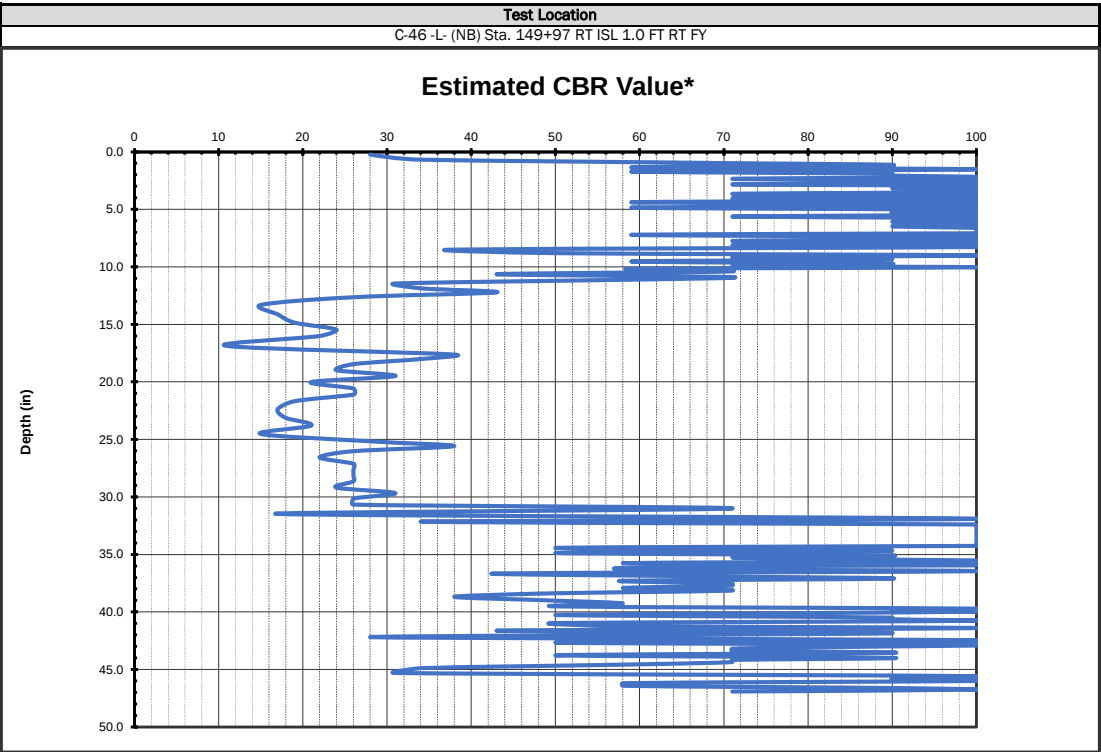
ABC	
ABC Thickness (in)	11.25
Average CBR	94
Weighted CBR Average	85
Maximum CBR Value	100
Minimum CBR Value	28

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)

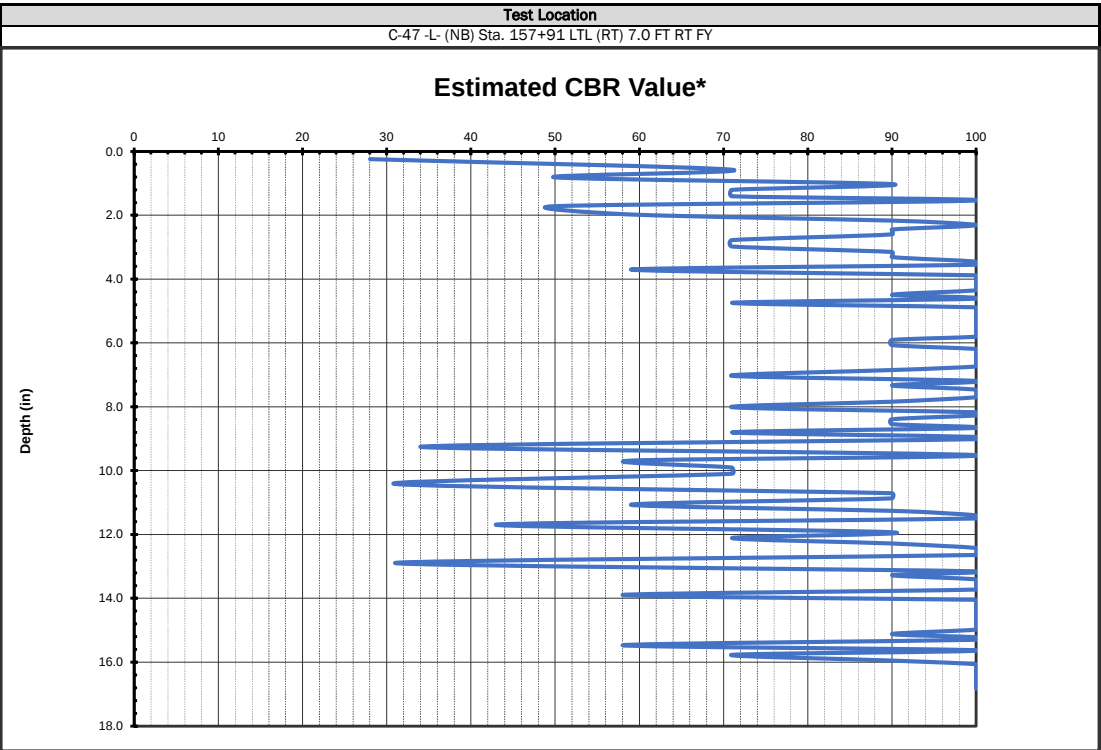


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	DCP REF				
14.00	64.50	94.00				13.50	36.79	50/0.1"				
14.50	65.40	94.40				13.70	36.96					
14.60	66.70	95.00				13.90	37.13					
14.90	68.20	95.50				14.20	37.30					
15.20	69.50	96.00				14.50	37.60					
15.60	70.80	96.60				14.70	37.90					
15.90	72.10	97.10				14.80	38.20					
16.20	73.40	97.80				15.20	38.60					
16.60	74.80	98.70				15.60	38.70					
16.90	75.90	99.40				15.80	39.00					
17.01	77.20	100.00				15.90	39.60					
17.12	78.50	100.70				16.20	39.80					
17.23	79.00	101.00				16.50	40.30					
17.34	80.90	101.40				16.80	40.70					
17.45	81.10	101.50				17.00	40.90					
17.56	82.10	101.90				17.20	40.92					
17.67	82.40	102.60				17.60	40.94					
17.78	82.48	103.00				18.10	40.96					
17.89	82.55	103.40				18.40	40.98					
18.00	82.63	103.70				18.80	41.00					
18.60	82.70	104.40				19.10	41.02					
18.90	82.78	105.00				19.40	41.04					
19.10	82.86	105.30				19.70	41.06					
19.40	82.93	106.10				20.10	41.08					
19.90	83.01	106.50				20.60	41.10					
20.10	83.09	107.70				20.90	41.12					
20.40	83.16	108.00				21.10	41.14					
20.90	83.24	108.70				21.50	41.16					
21.10	83.31	109.00				21.90	41.18					
22.00	83.39	109.40				22.10	41.20					
22.70	83.47	109.90				22.60	41.22					
23.00	83.54	110.40				22.80	41.24					
23.50	83.62	110.80				23.00	41.26					



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



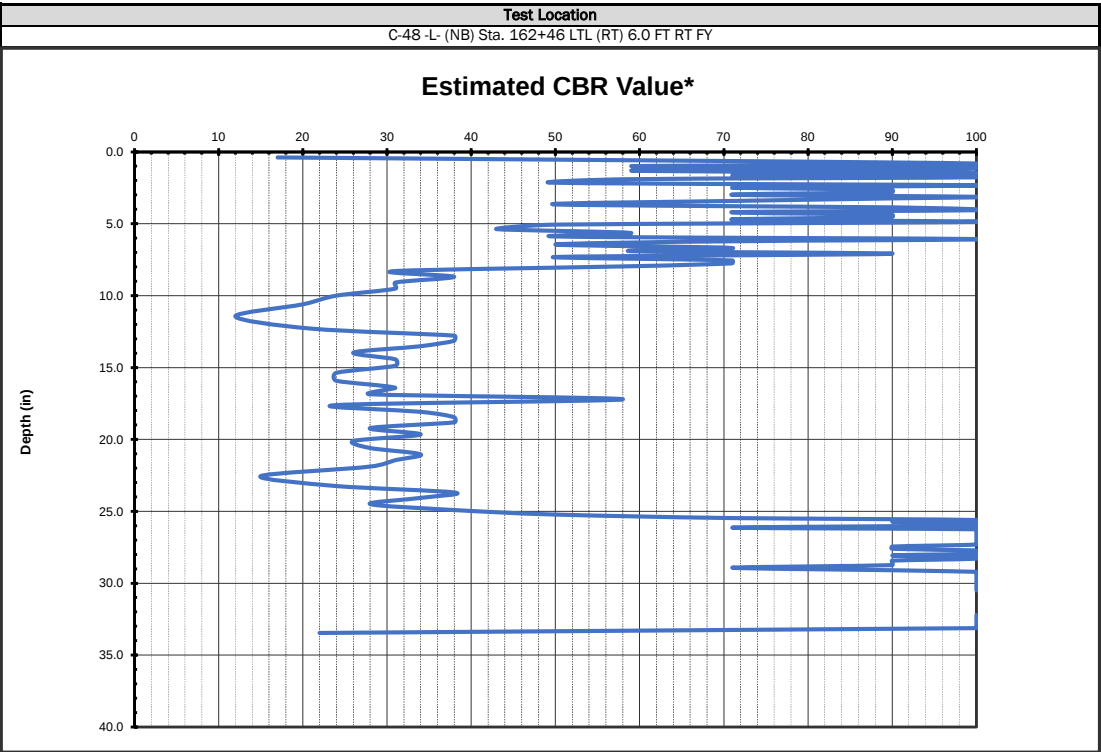
ABC	
ABC Thickness (in)	13.50
Average CBR	87
Weighted CBR Average	77
Maximum CBR Value	100
Minimum CBR Value	28

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)

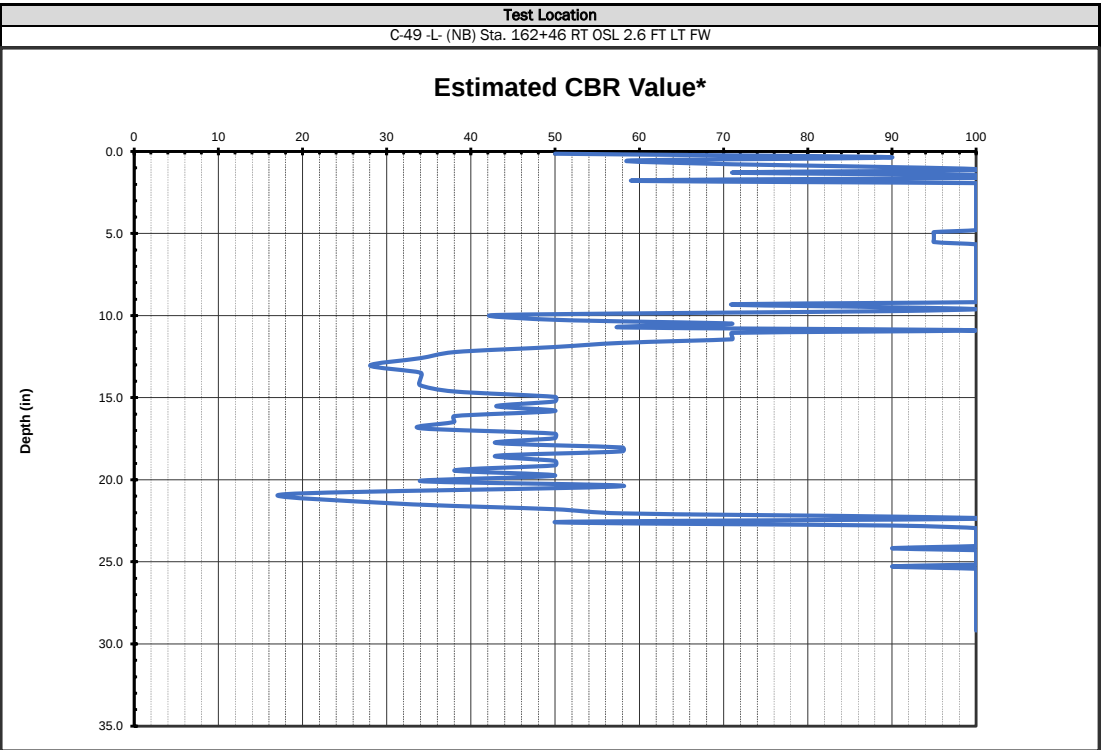


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	50/3.5"				
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	50/0.2"			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



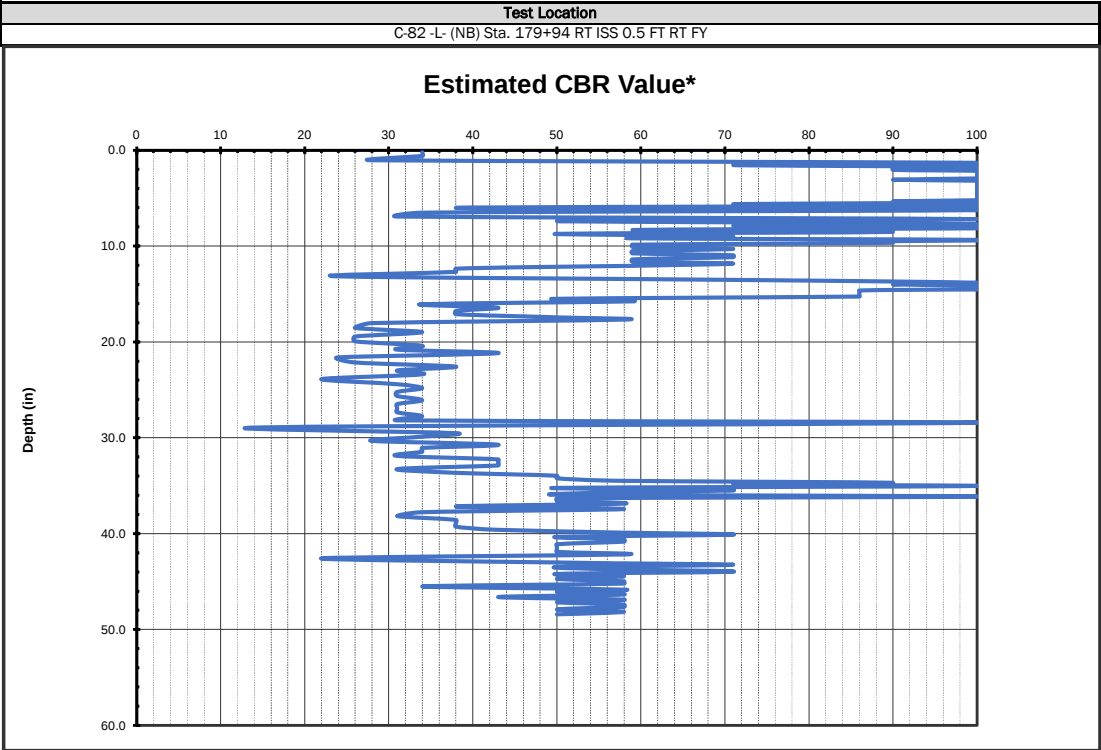
ABC	
ABC Thickness (in)	10.25
Average CBR	97
Weighted CBR Average	92
Maximum CBR Value	100
Minimum CBR Value	43

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)

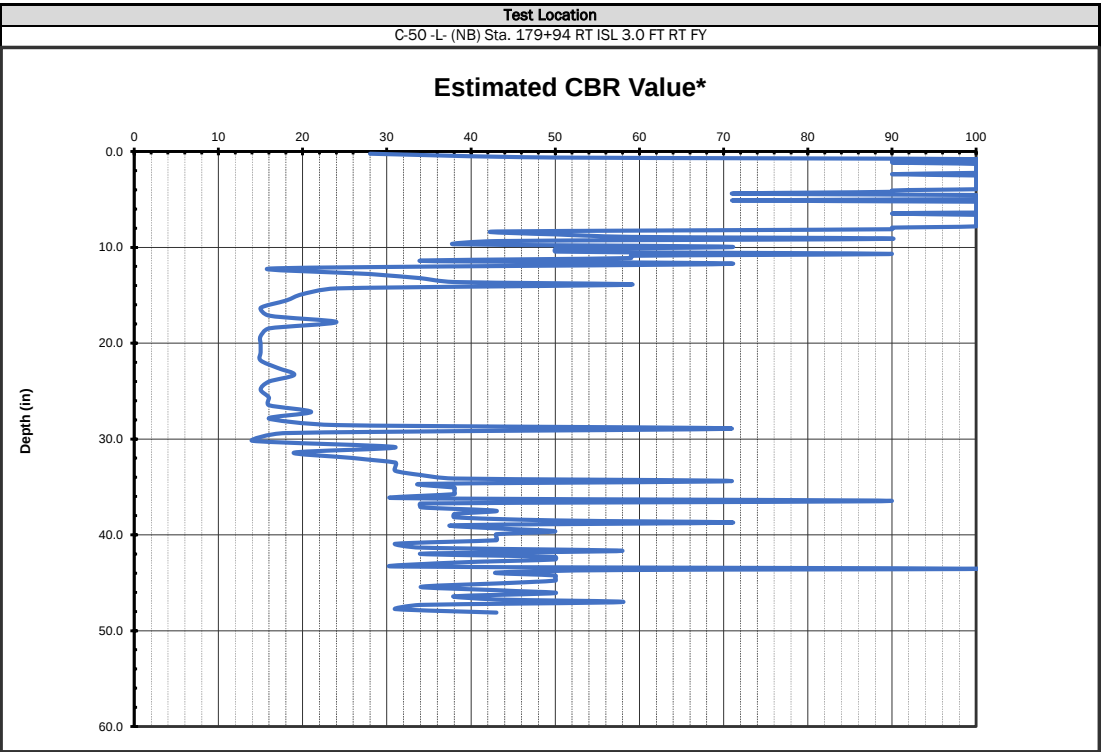


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



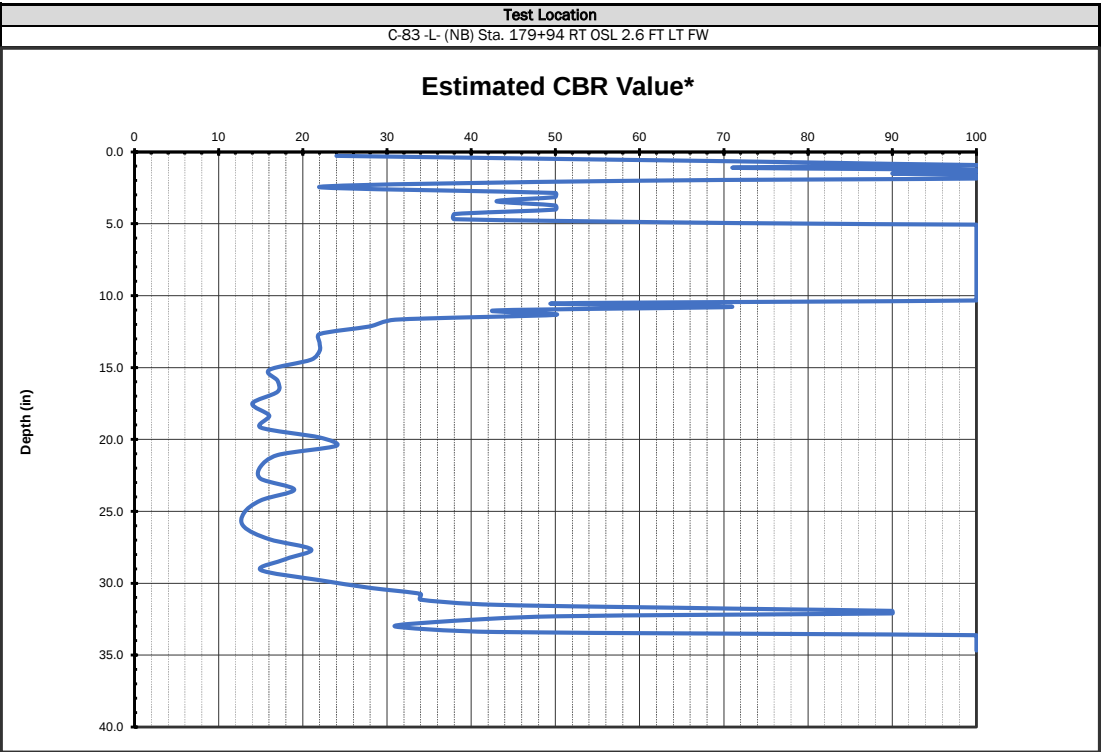
ABC	
ABC Thickness (in)	15.75
Average CBR	87
Weighted CBR Average	66
Maximum CBR Value	100
Minimum CBR Value	17

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)

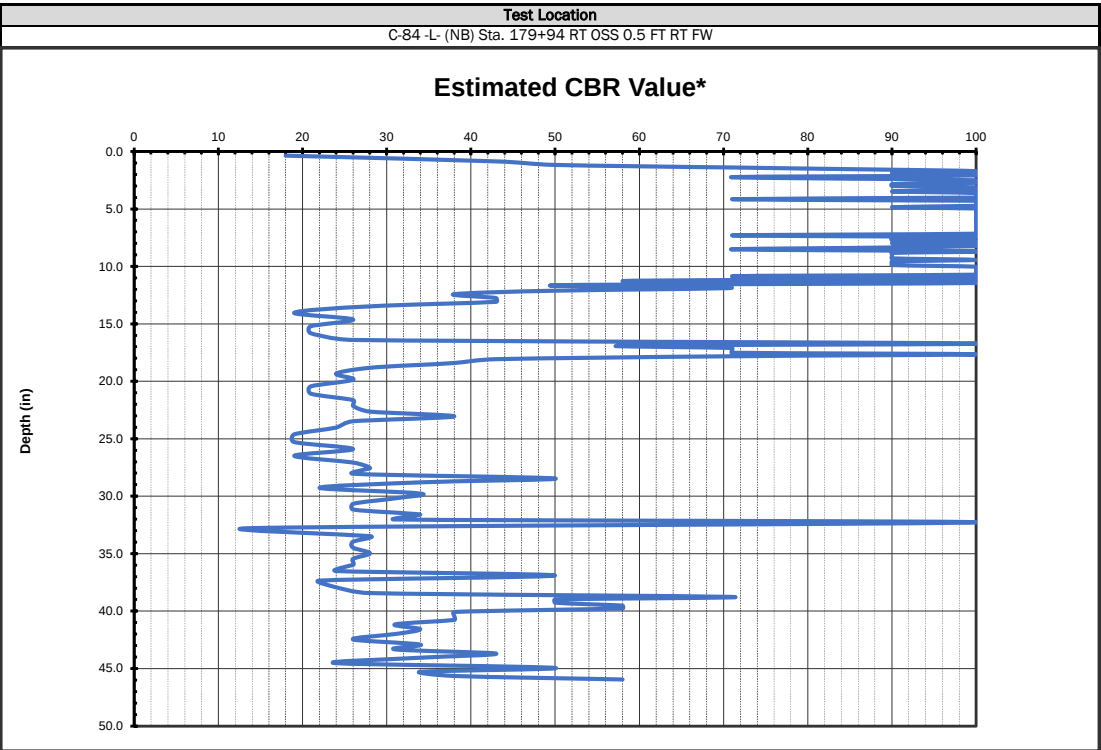


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	60/1.8"			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



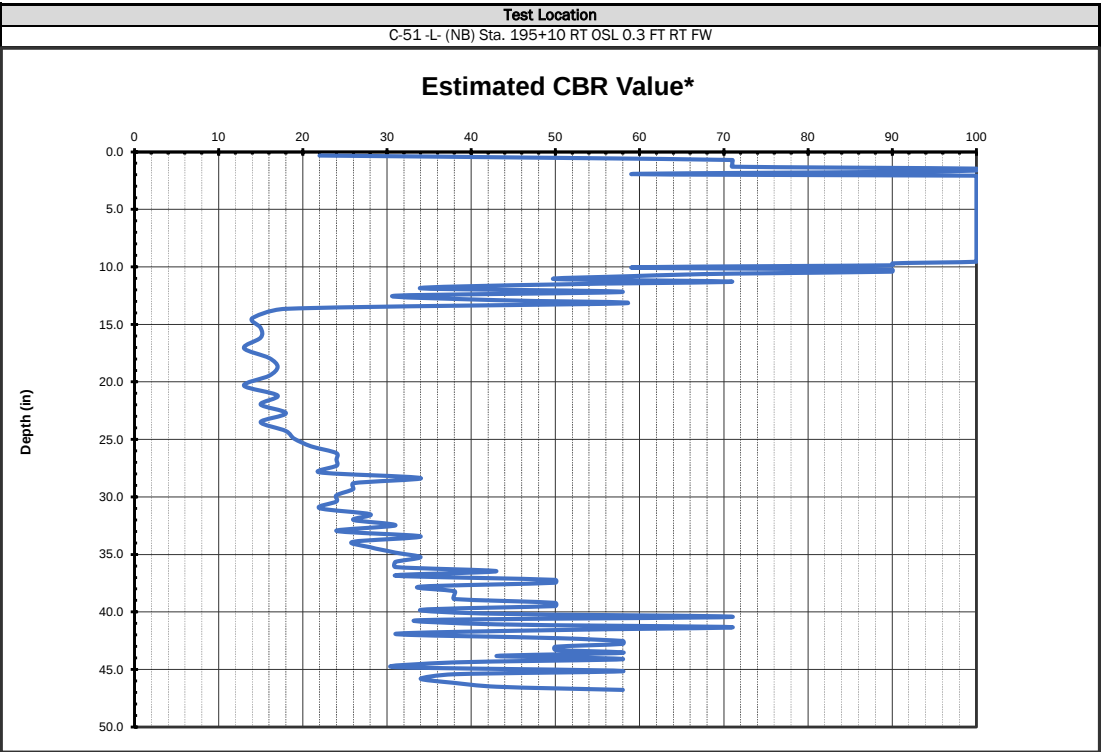
ABC	
ABC Thickness (in)	10.00
Average CBR	94
Weighted CBR Average	85
Maximum CBR Value	100
Minimum CBR Value	18

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)

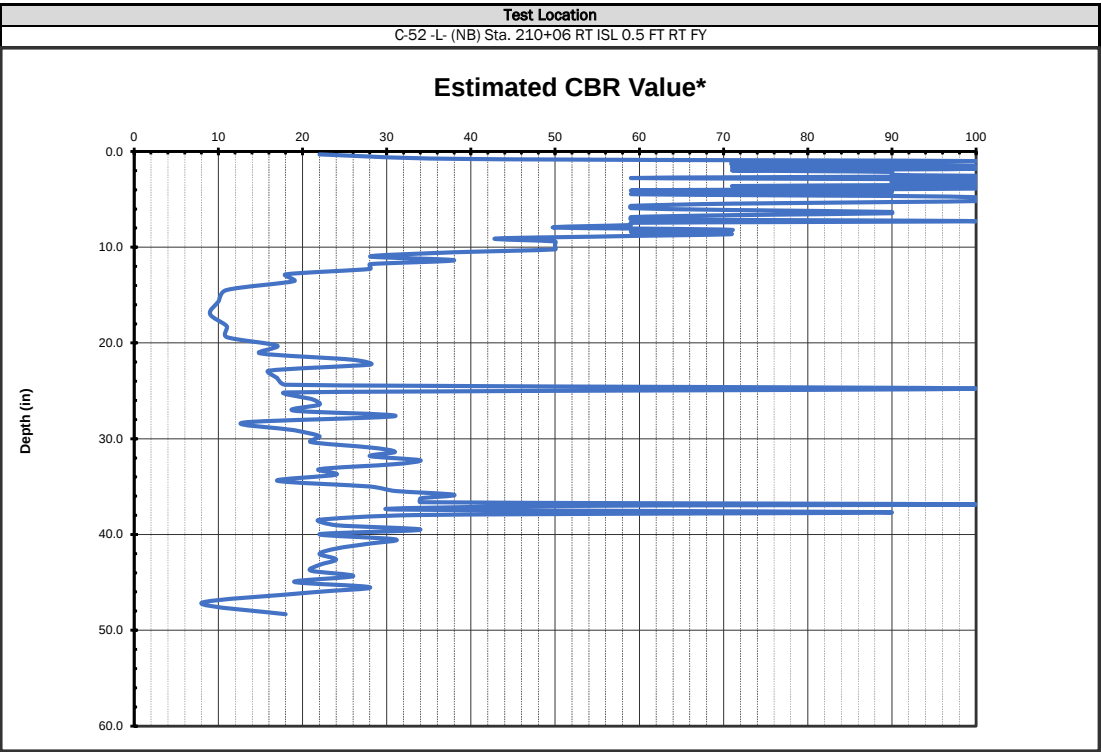


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run			
C-51 -L- (NB) Sta. 195+10 RT OSL 0.3 FT RT FW				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



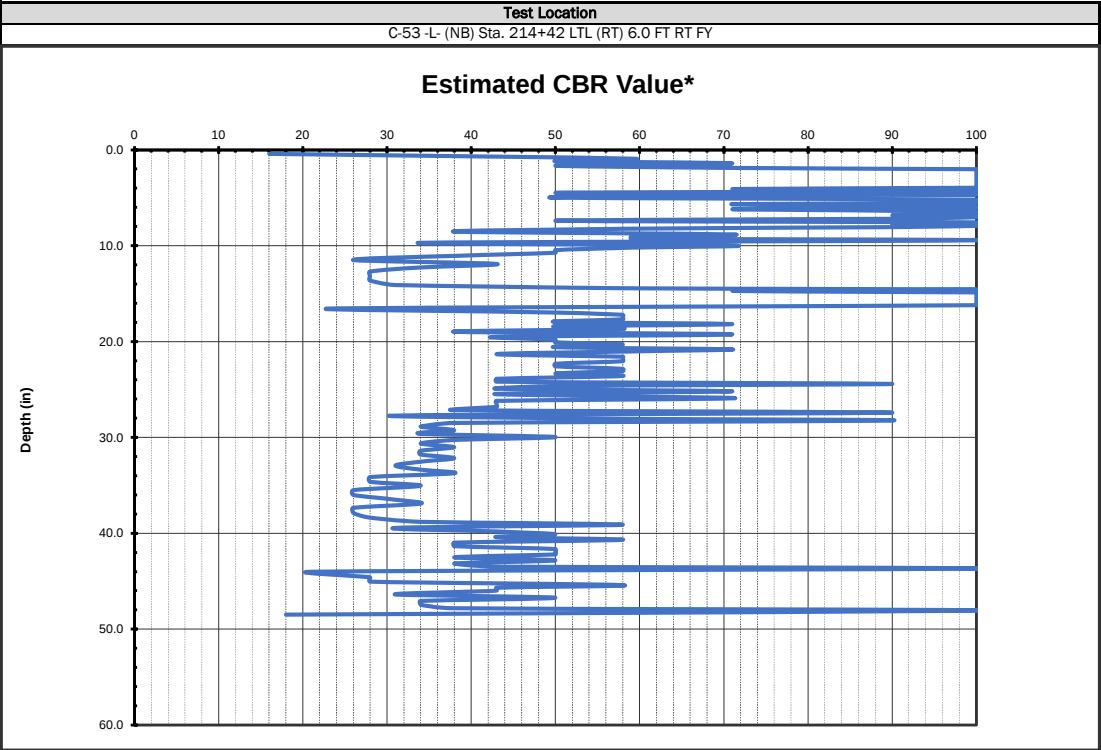
ABC	
ABC Thickness (in)	10.50
Average CBR	76
Weighted CBR Average	68
Maximum CBR Value	100
Minimum CBR Value	22

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)

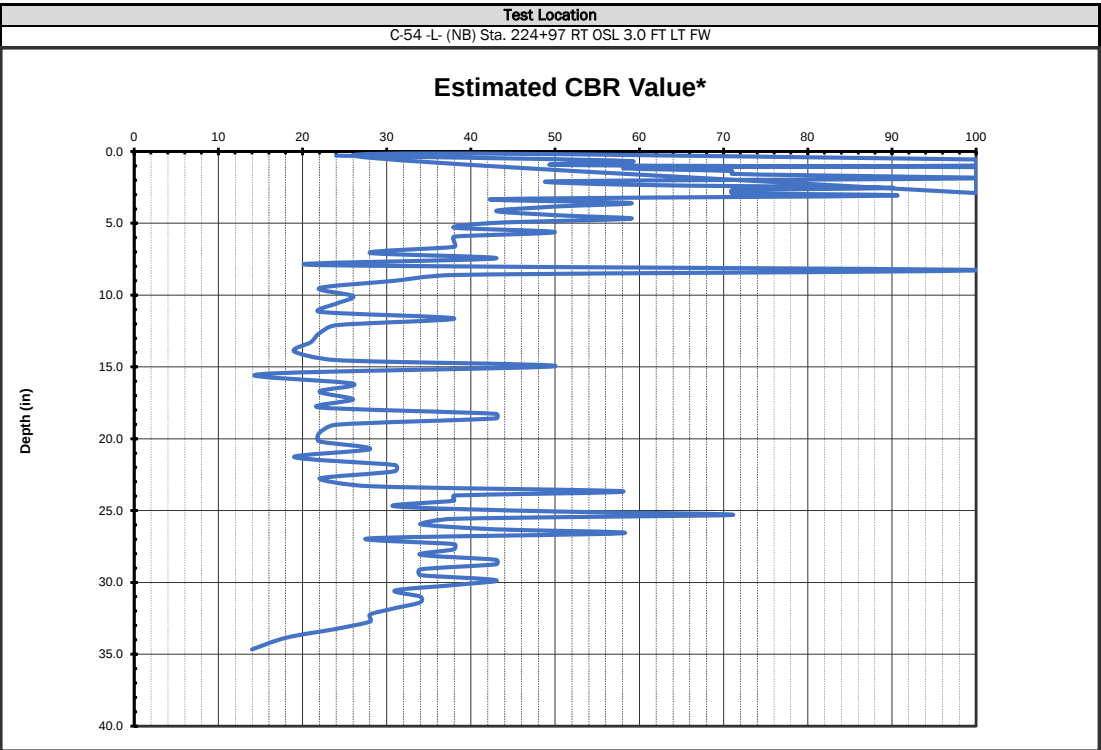


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



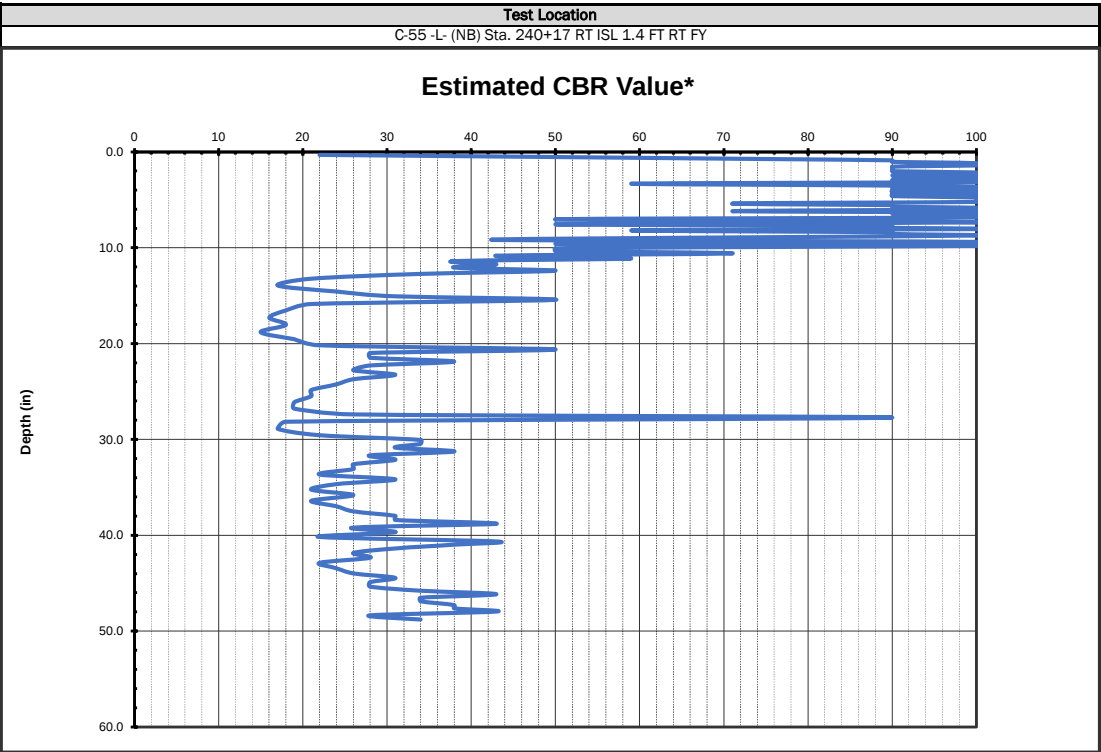
ABC	
ABC Thickness (in)	11.75
Average CBR	81
Weighted CBR Average	52
Maximum CBR Value	100
Minimum CBR Value	22

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)

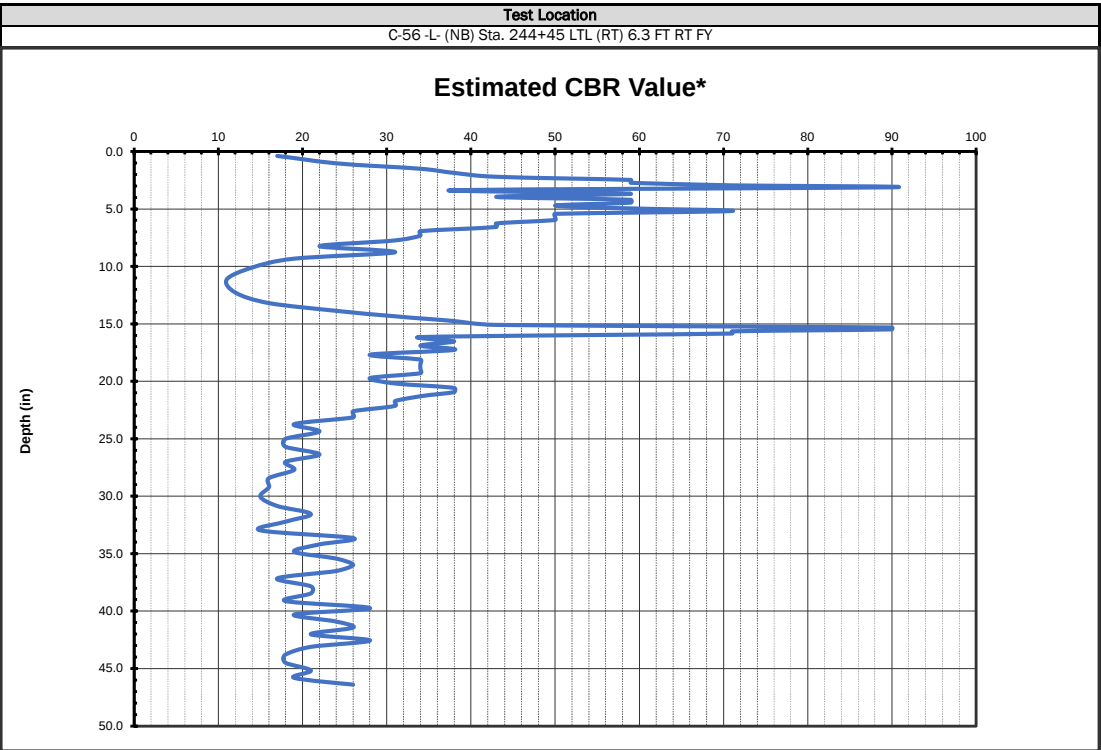


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



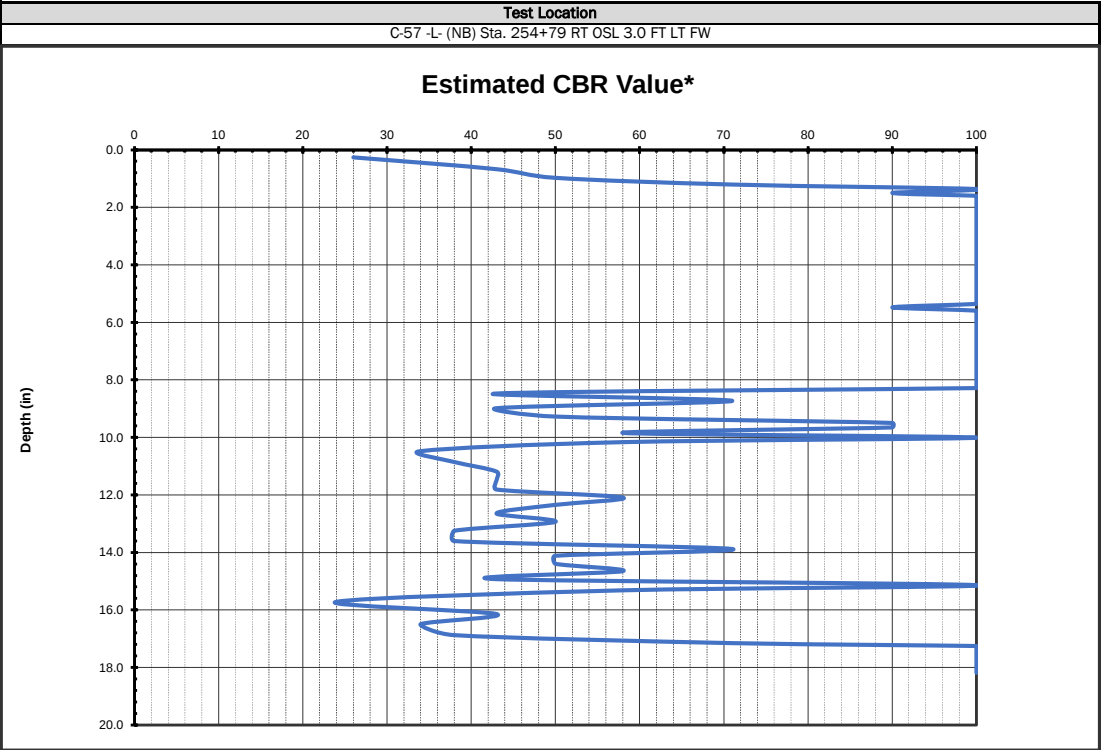
ABC	
ABC Thickness (in)	10.00
Average CBR	46
Weighted CBR Average	39
Maximum CBR Value	90
Minimum CBR Value	17

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)

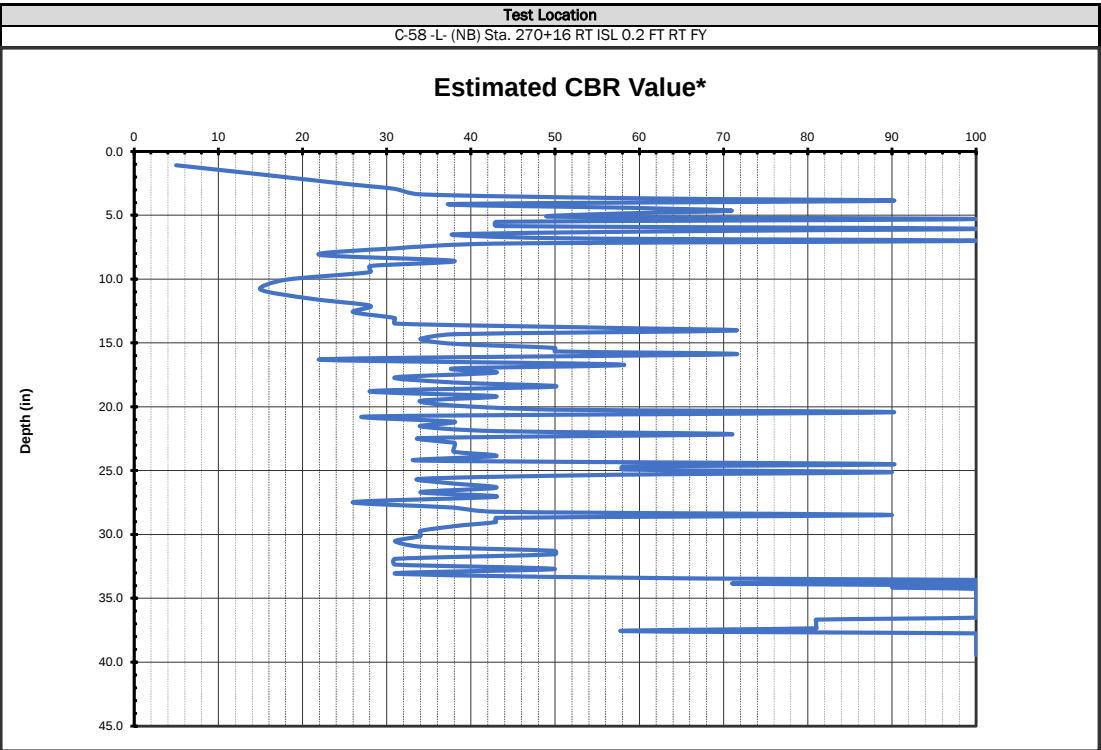


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	90/1.0"			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	90/1.0"					
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



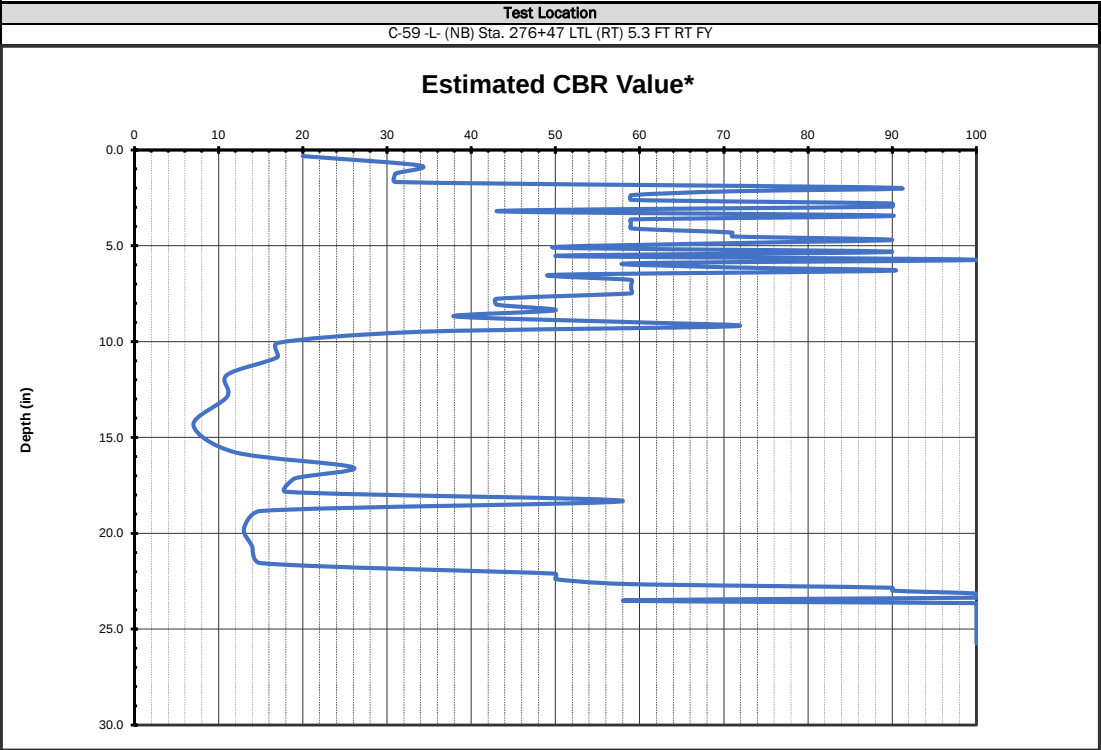
ABC	
ABC Thickness (in)	11.0
Average CBR	48
Weighted CBR Average	32
Maximum CBR Value	100
Minimum CBR Value	5

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)

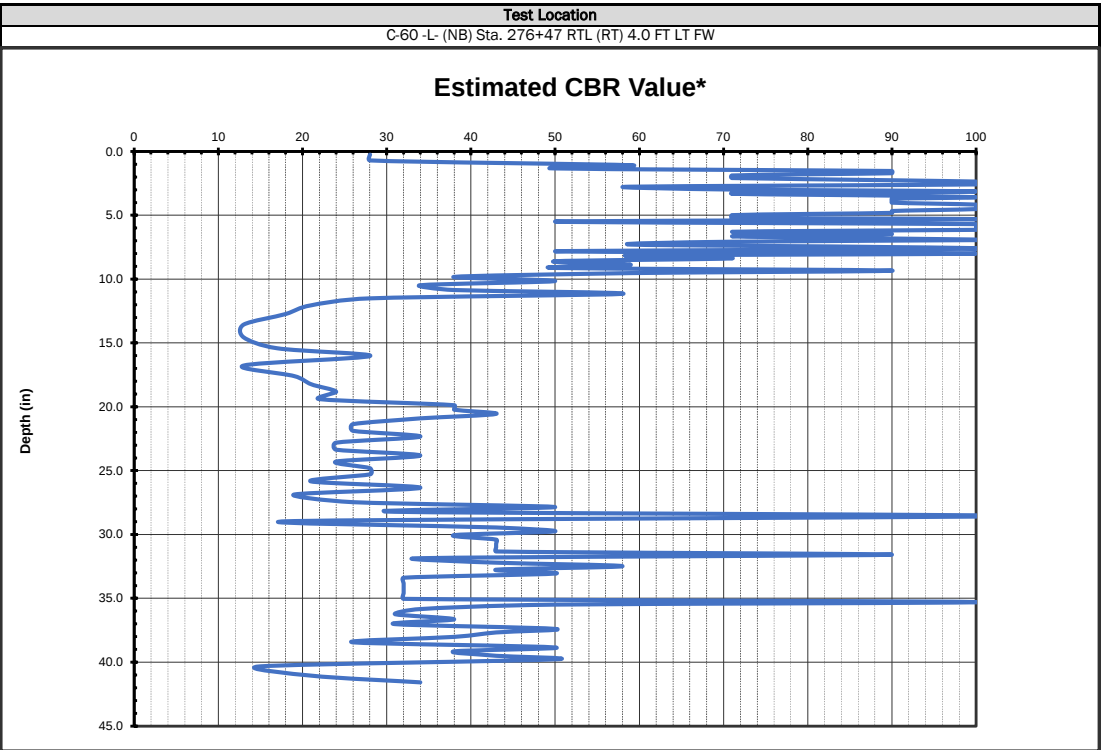


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



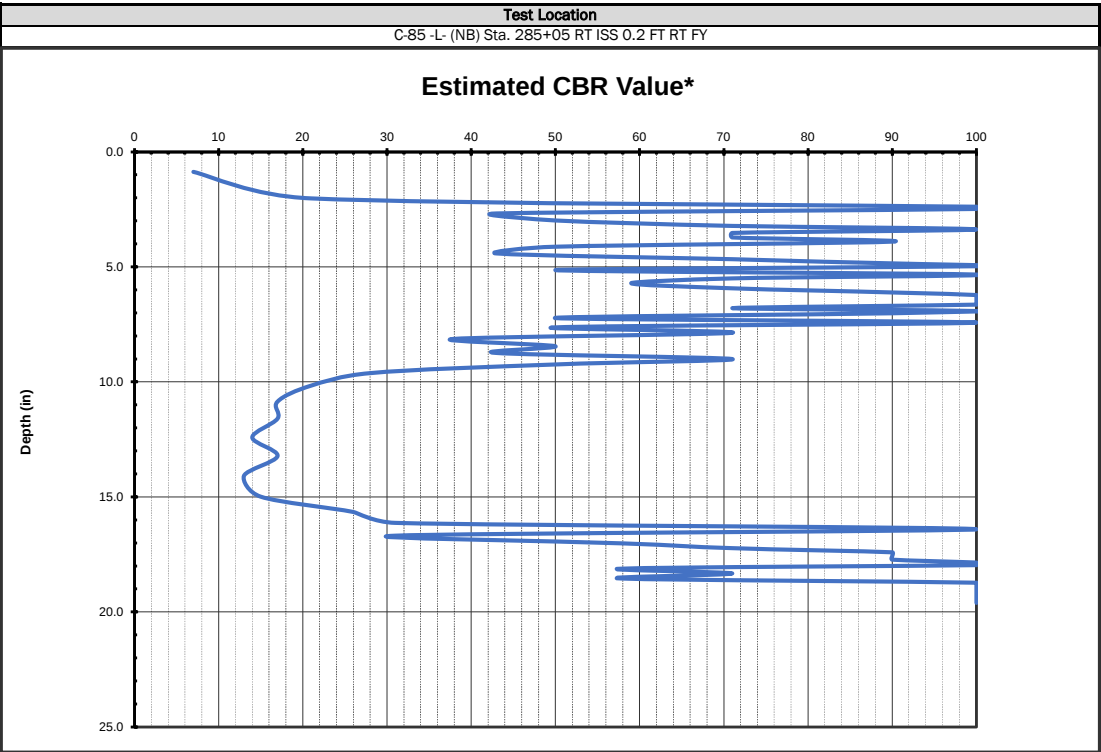
ABC	
ABC Thickness (in)	10.50
Average CBR	78
Weighted CBR Average	69
Maximum CBR Value	100
Minimum CBR Value	28

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)

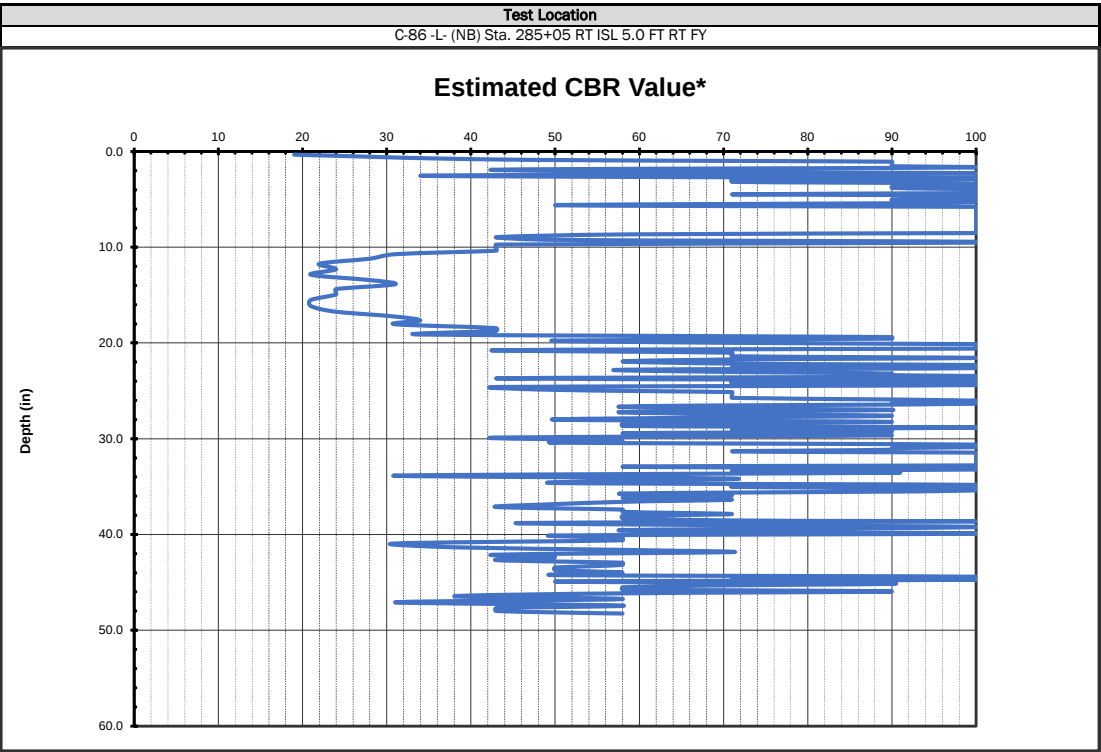


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	122.90			
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				



ABC	
ABC Thickness (in)	8.75
Average CBR	72
Weighted CBR Average	52
Maximum CBR Value	100
Minimum CBR Value	7

Soil Subgrade	
Average CBR	85
Weighted Average	38
Max CBR	100
Min CBR	13



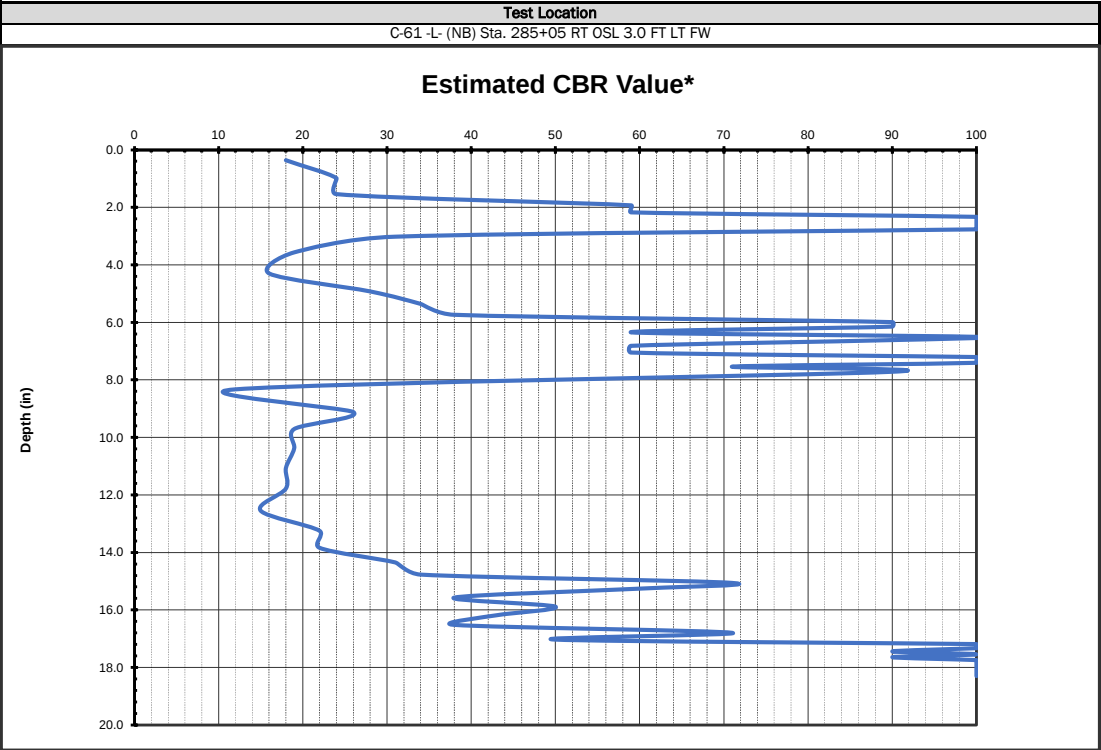
ABC	
ABC Thickness (in)	9.00
Average CBR	92
Weighted CBR Average	79
Maximum CBR Value	100
Minimum CBR Value	19

Soil Subgrade	
Average CBR	71
Weighted Average	57
Max CBR	100
Min CBR	21

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

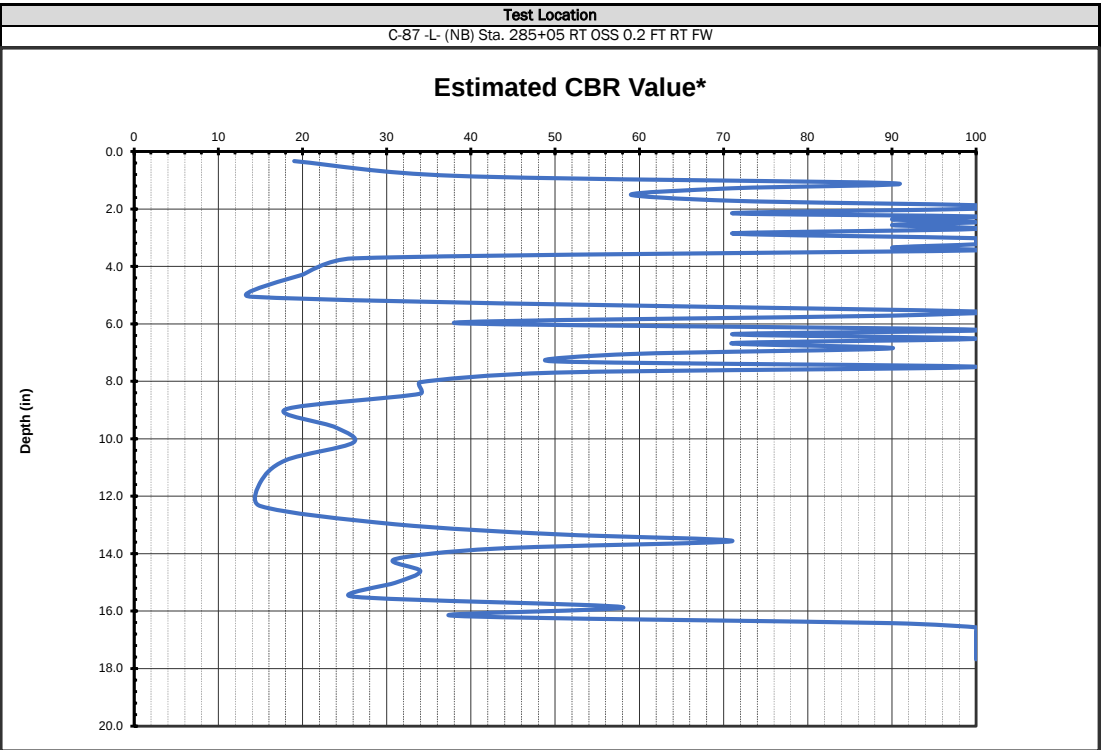


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run			
C-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	50/LD*				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	50/LD*						
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



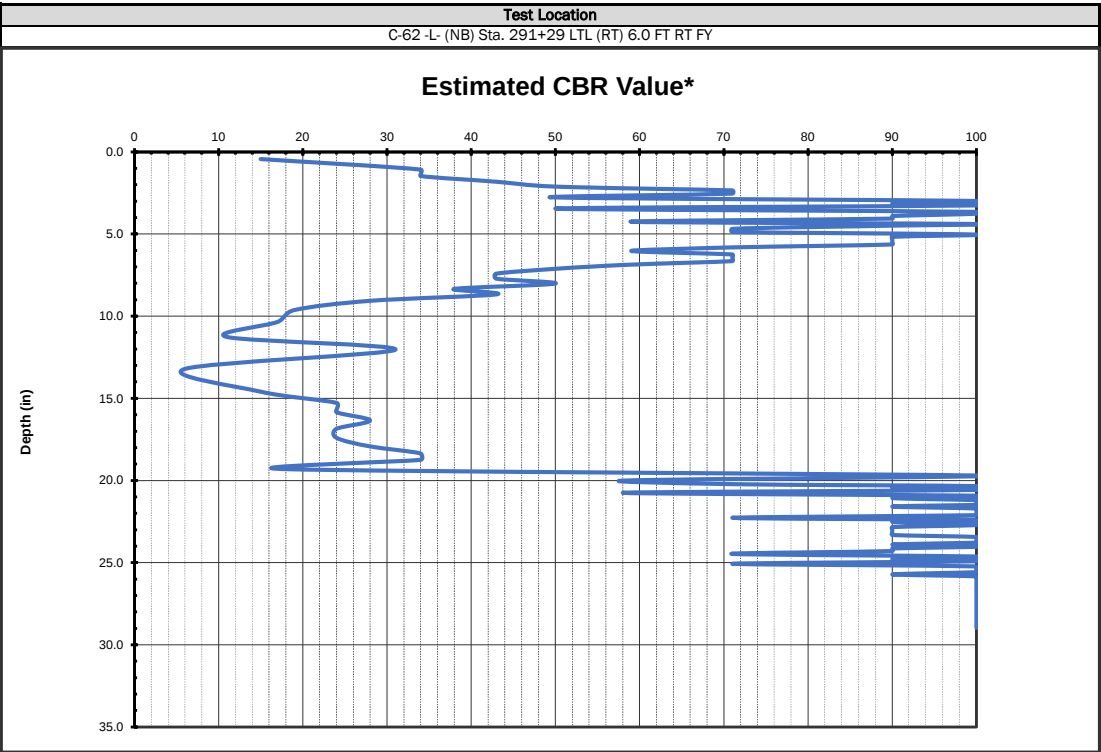
ABC	
ABC Thickness (in)	8.00
Average CBR	76
Weighted CBR Average	55
Maximum CBR Value	100
Minimum CBR Value	14

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)

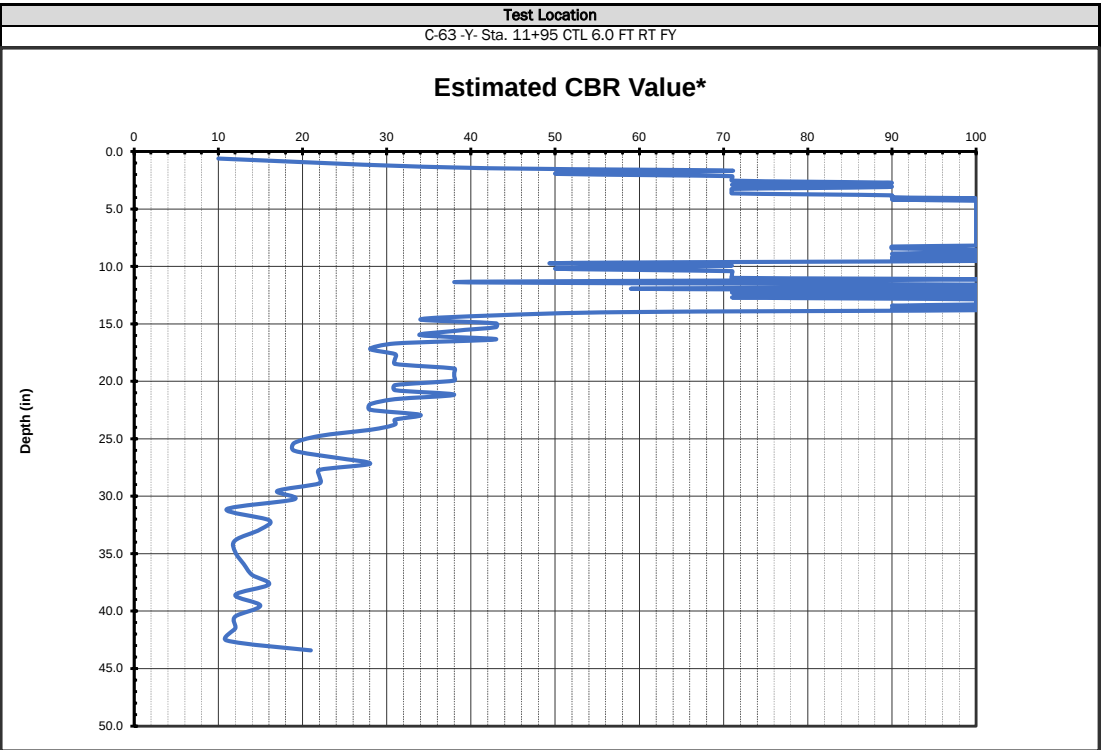


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run			
C-62 -L- (NB) Sta. 291+29 LTL (RT) 6.0 FT RT FY				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



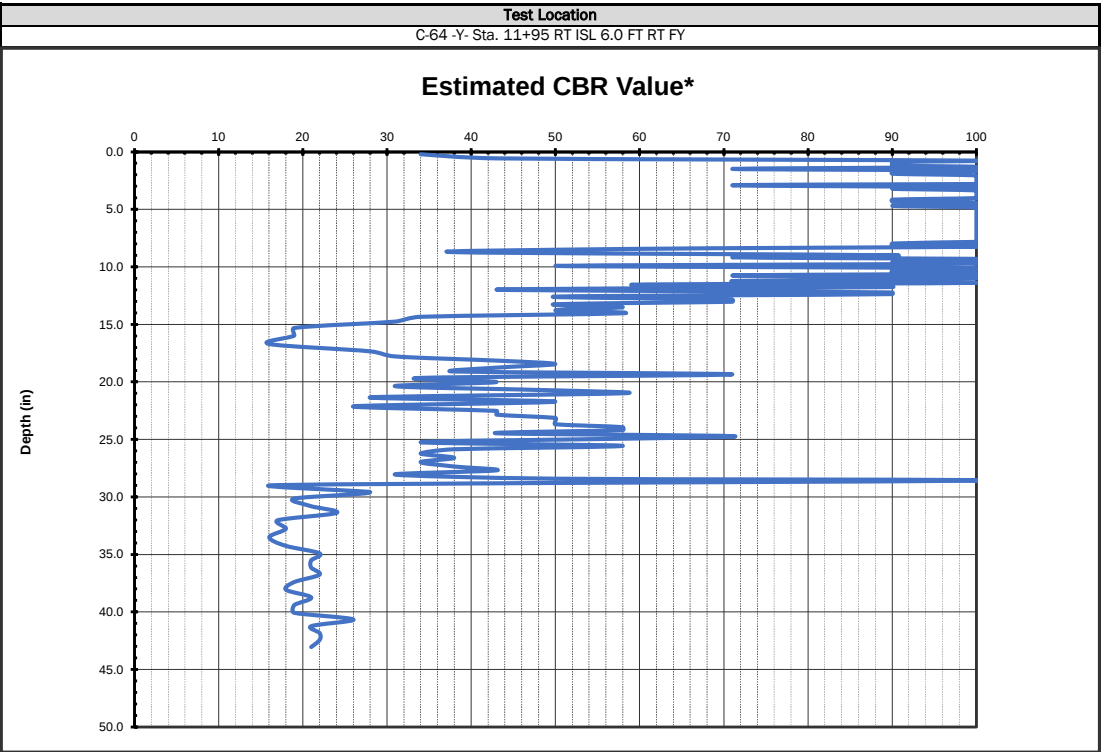
ABC	
ABC Thickness (in)	12.50
Average CBR	90
Weighted CBR Average	76
Maximum CBR Value	100
Minimum CBR Value	10

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)

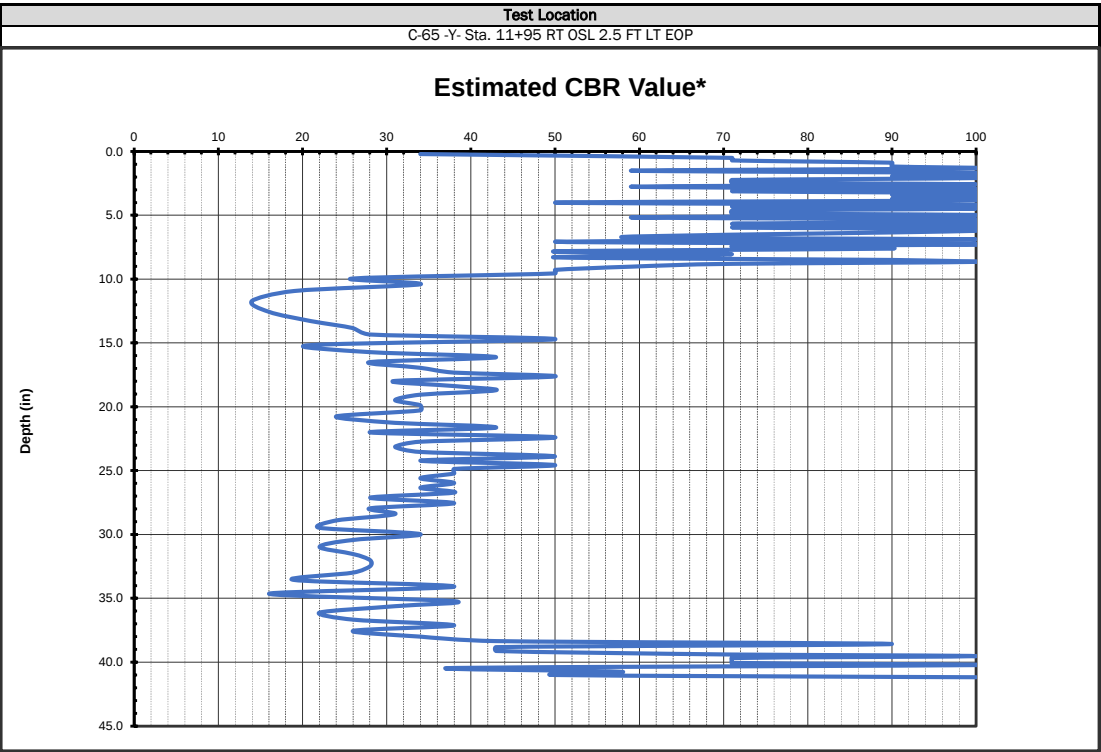


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run			
C-64 -Y- Sta. 11+95 RT ISL 6.0 FT RT FY				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



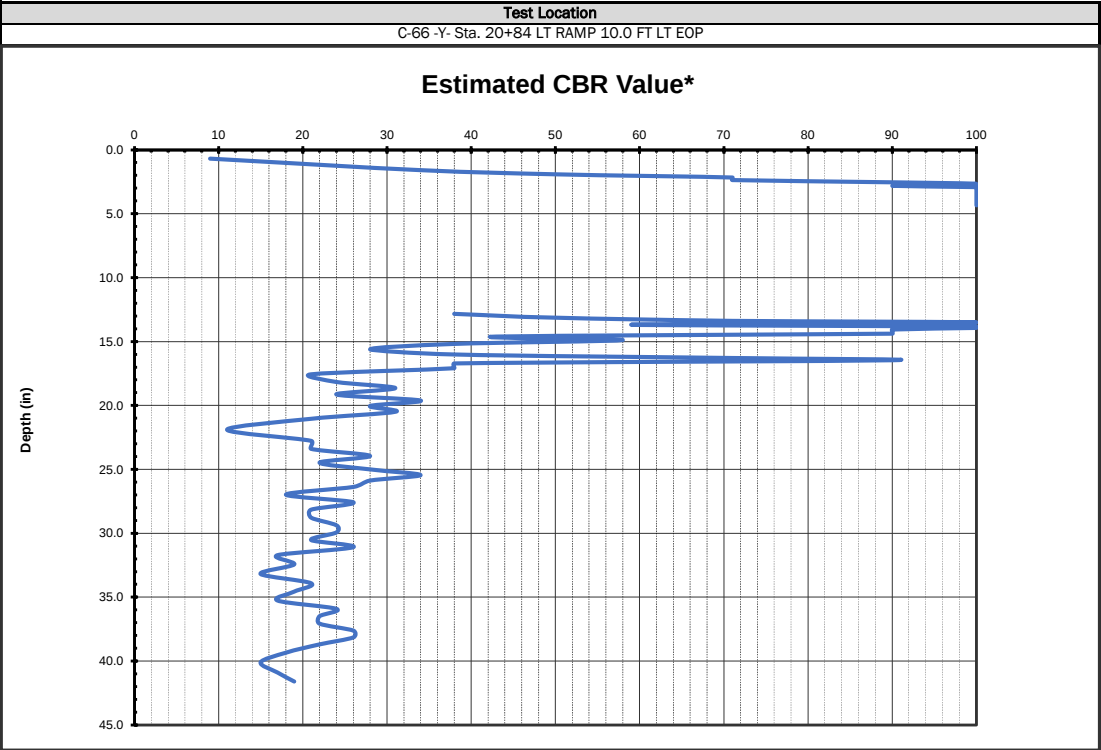
ABC	
ABC Thickness (in)	11.00
Average CBR	79
Weighted CBR Average	67
Maximum CBR Value	100
Minimum CBR Value	19

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)

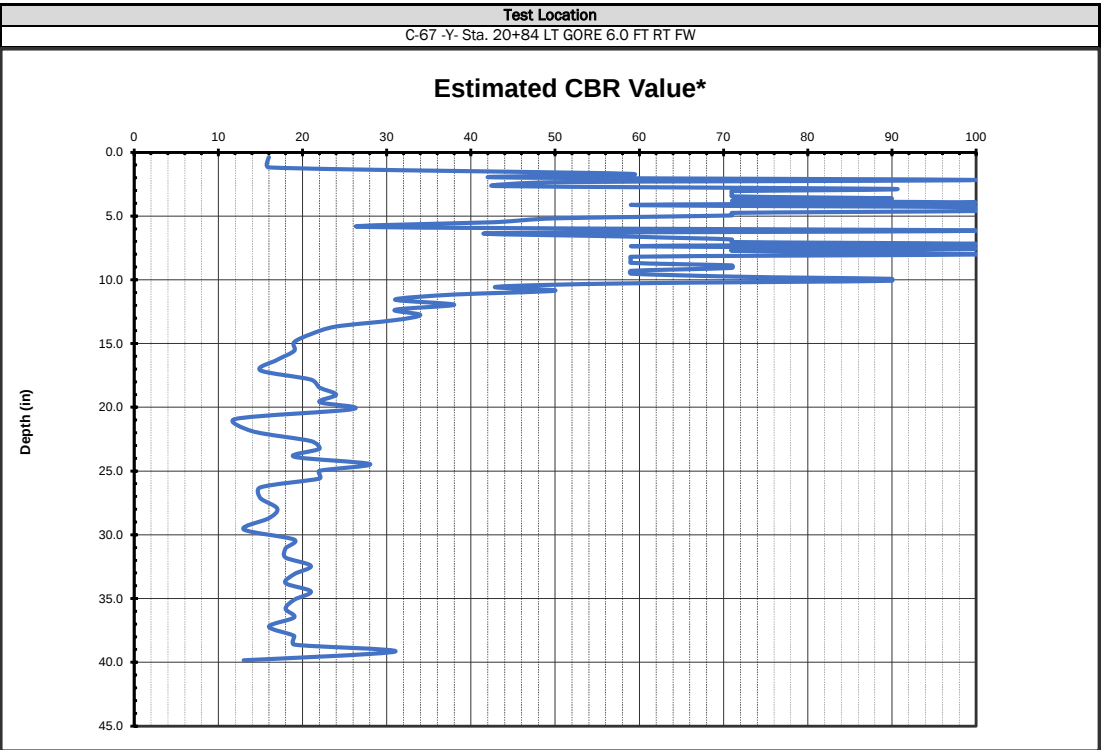


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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 81.0 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



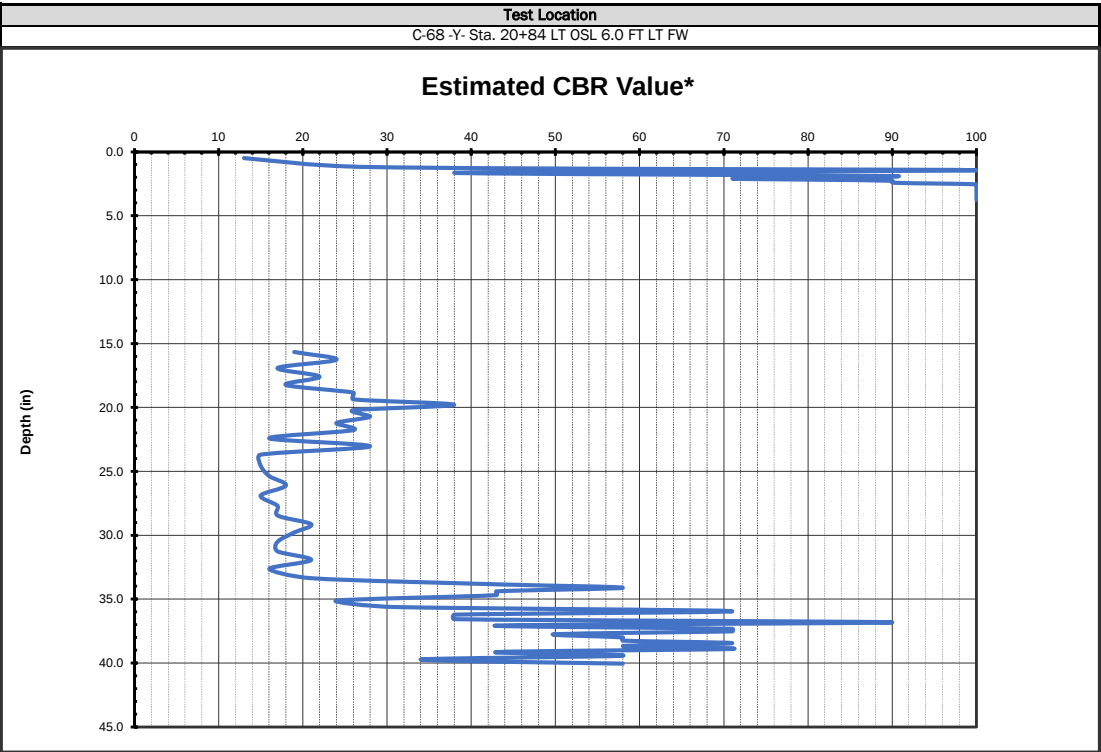
ABC	
ABC Thickness (in)	11.00
Average CBR	70
Weighted CBR Average	57
Maximum CBR Value	100
Minimum CBR Value	16

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)

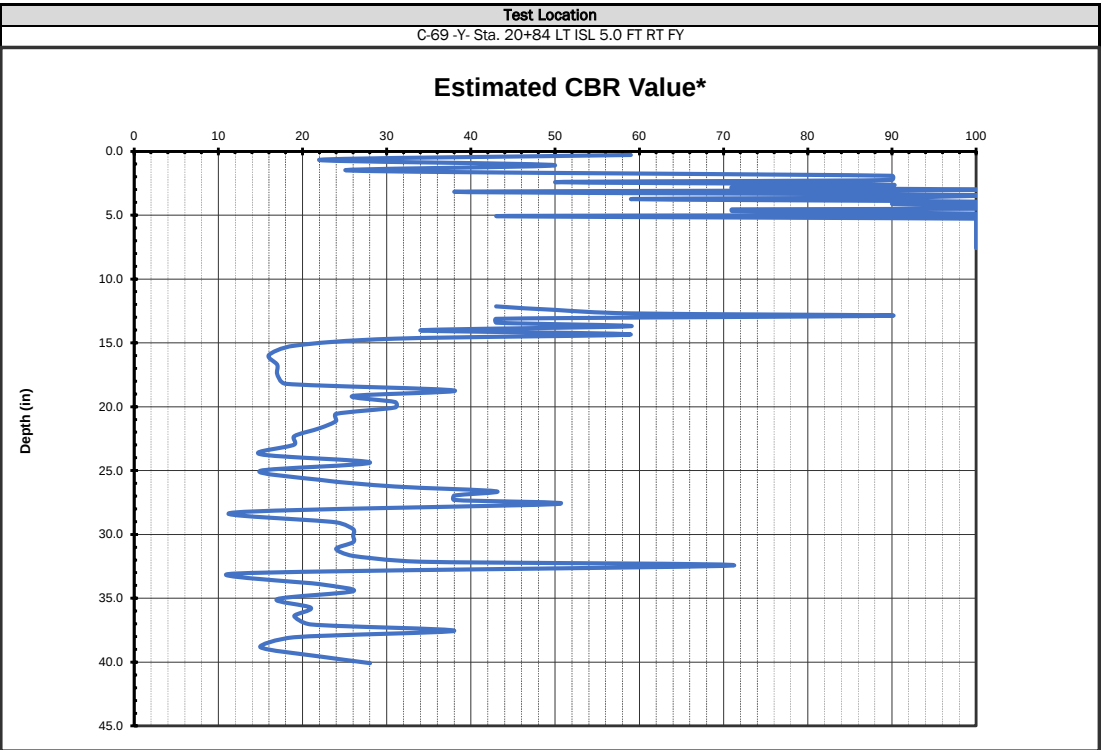


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run			
C-68 -Y- Sta. 20+84 LT OSL 6.0 FT LT FW				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	DCP REF						
6.80	18.80				8.20	AUGER 9.0						
7.00	20.80				9.10	TO 28.4 CM						
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



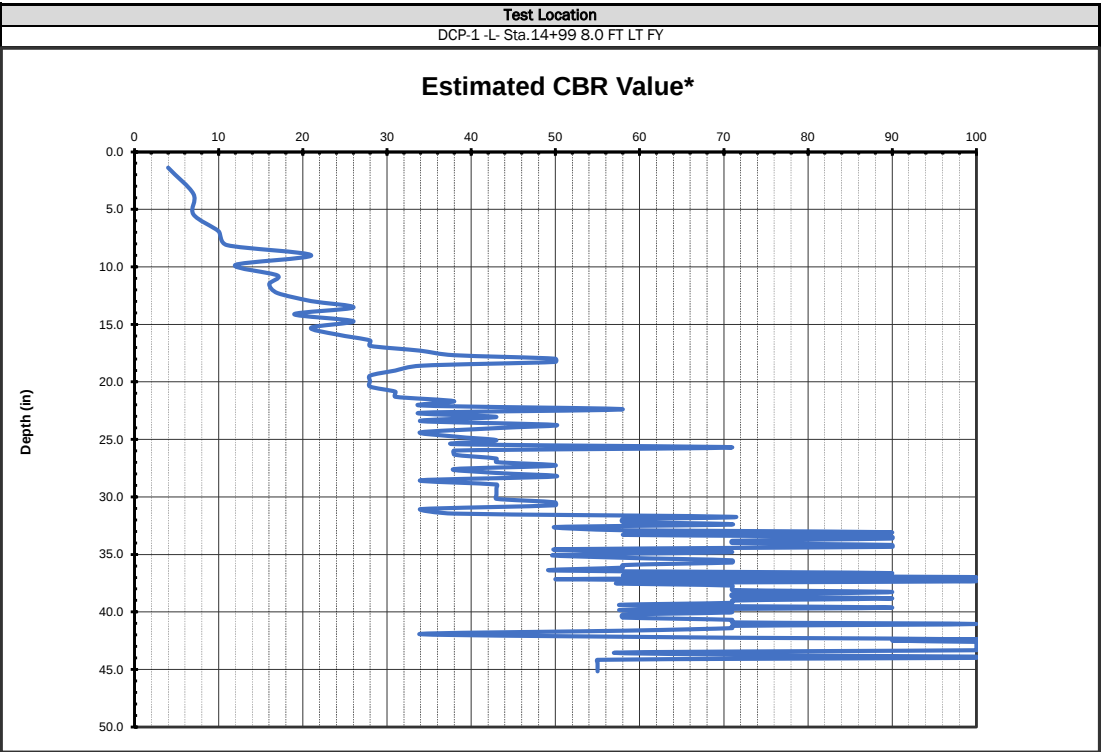
ABC	
ABC Thickness (in)	15.0
Average CBR	85
Weighted CBR Average	30
Maximum CBR Value	100
Minimum CBR Value	1

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)

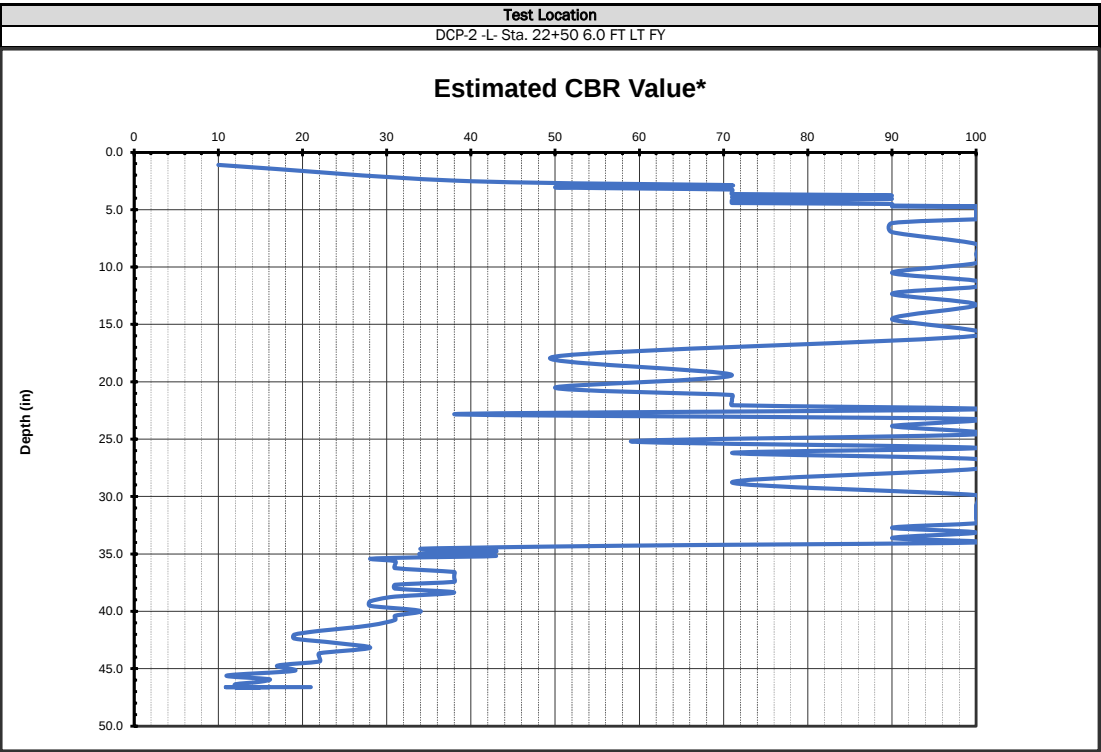


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



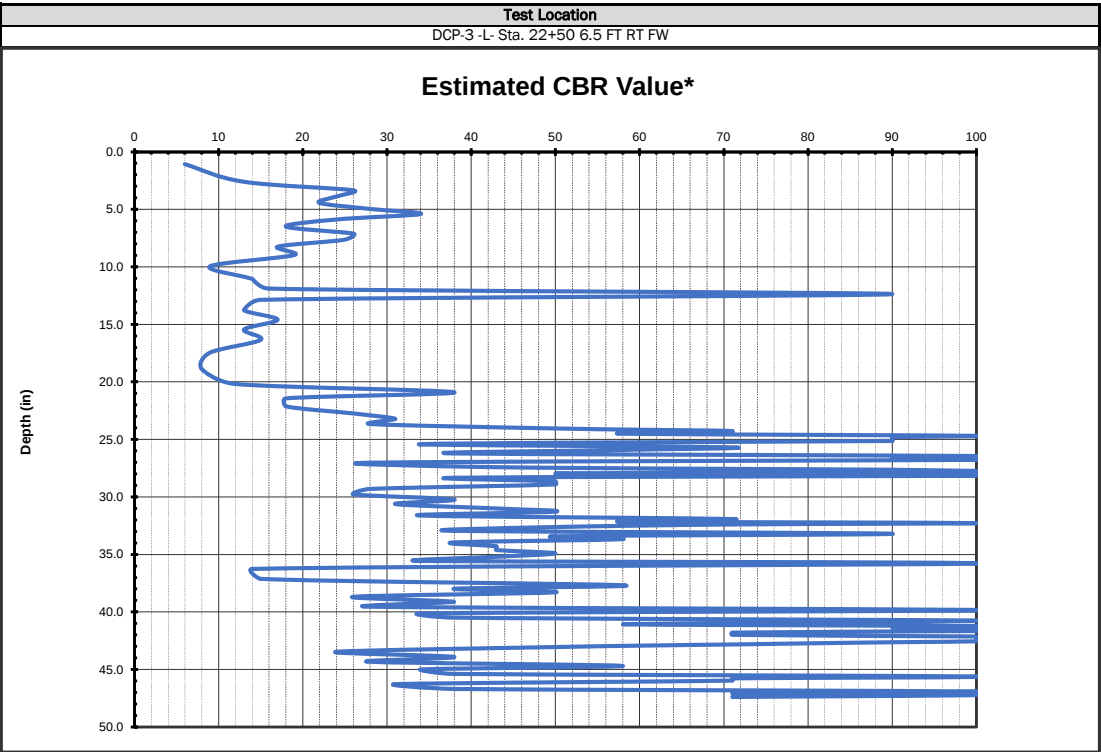
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

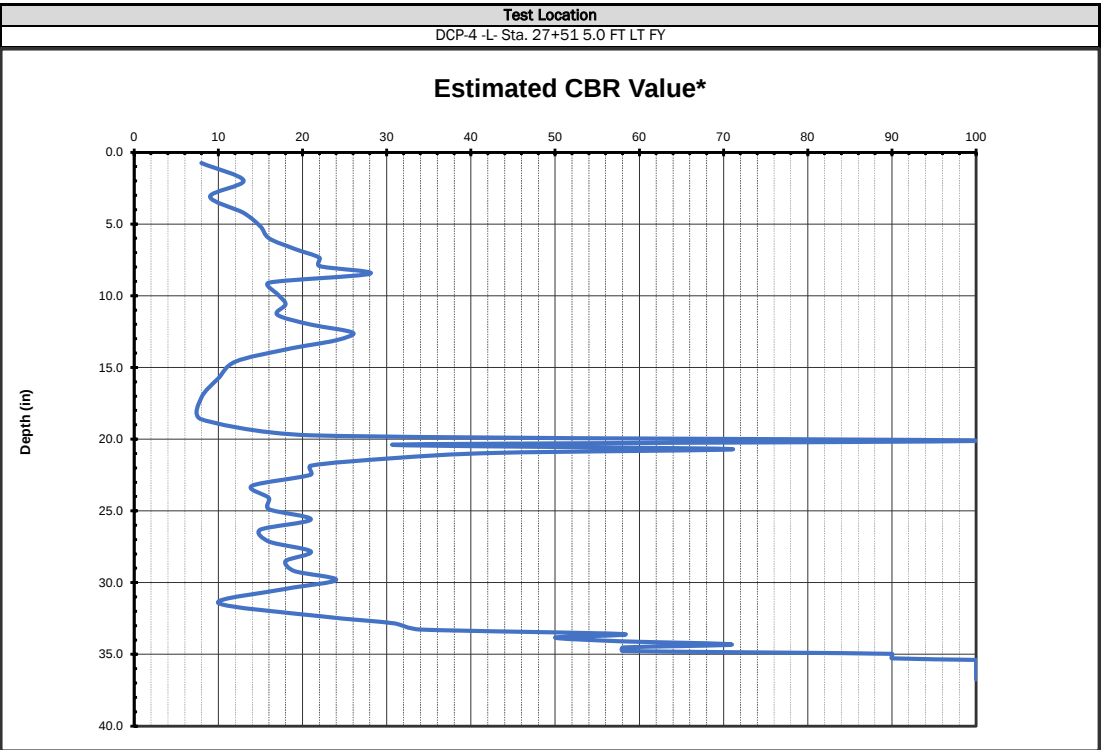


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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			
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



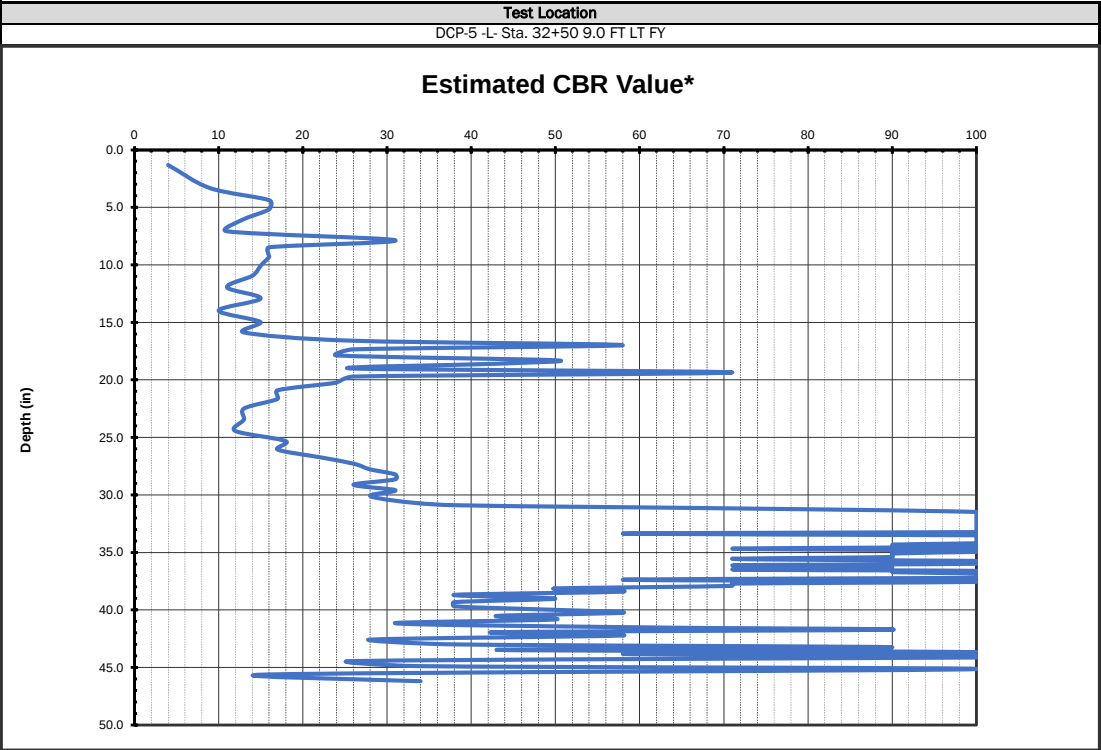
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

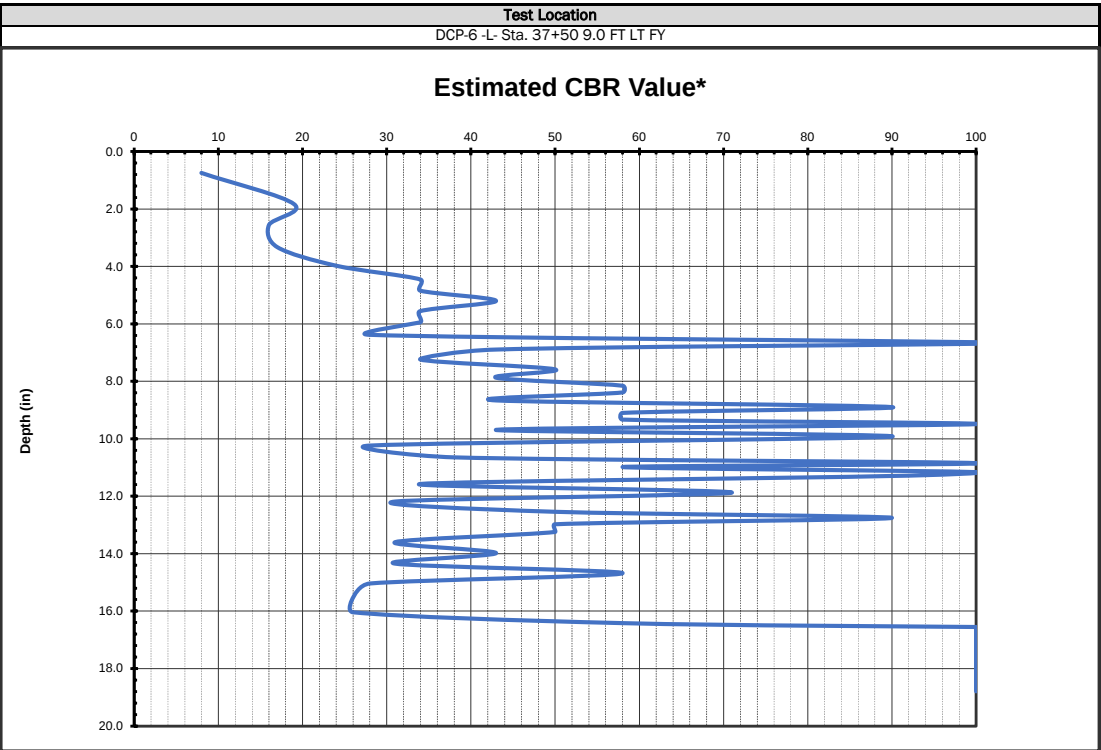


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	50/2.5"						
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							



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

Soil Subgrade	
Average CBR	69
Weighted Average	33
Max CBR	100
Min CBR	4



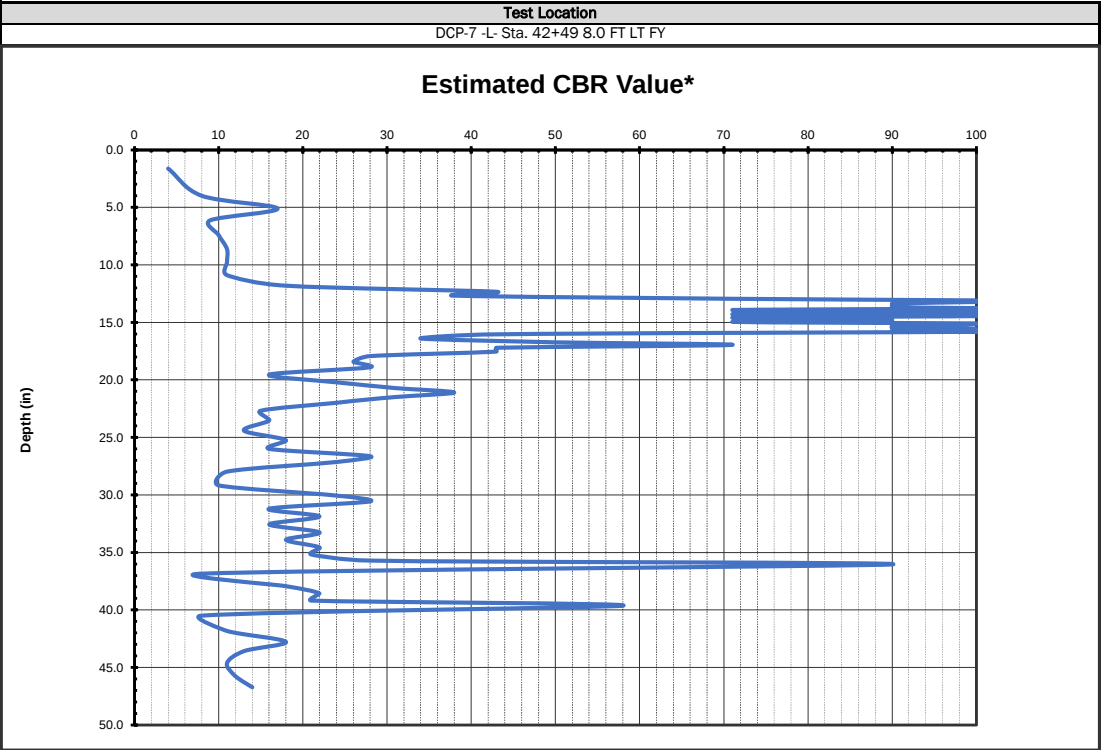
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	76
Weighted Average	44
Max CBR	100
Min CBR	8

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

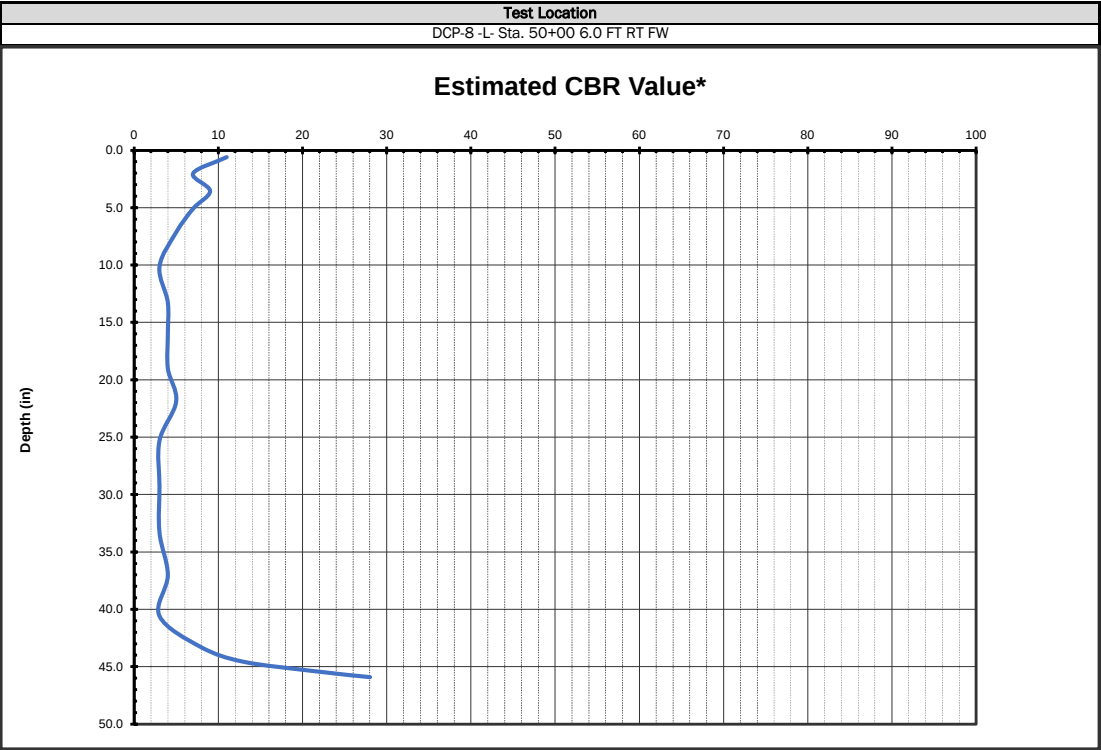


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET						WBS NO.	PROJECT TIP I.D.	ROUTE
						48470.1.1	R-5921	US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40
						COUNTY	FIELD PROFESSIONAL	DRILLER/HELPER
						Haywood	T. Wenner, P.G.	M. Brewer, P. Tomasic
Test Location						Date Run	Test Location	Date Run
DCP-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



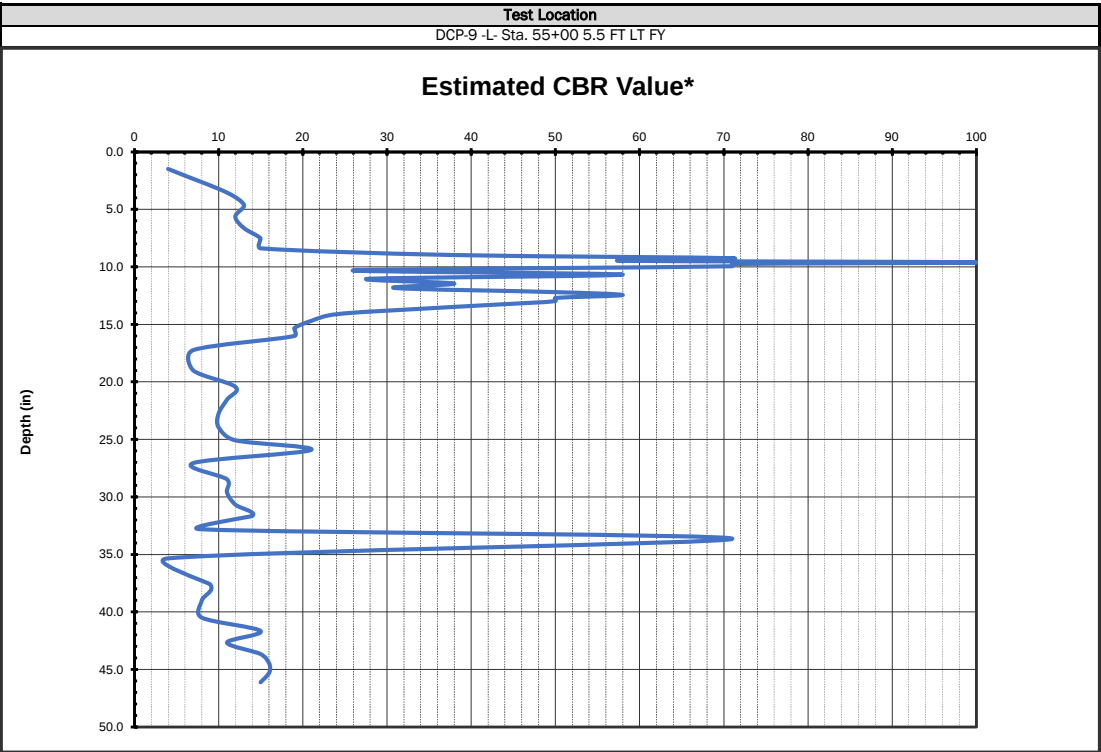
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

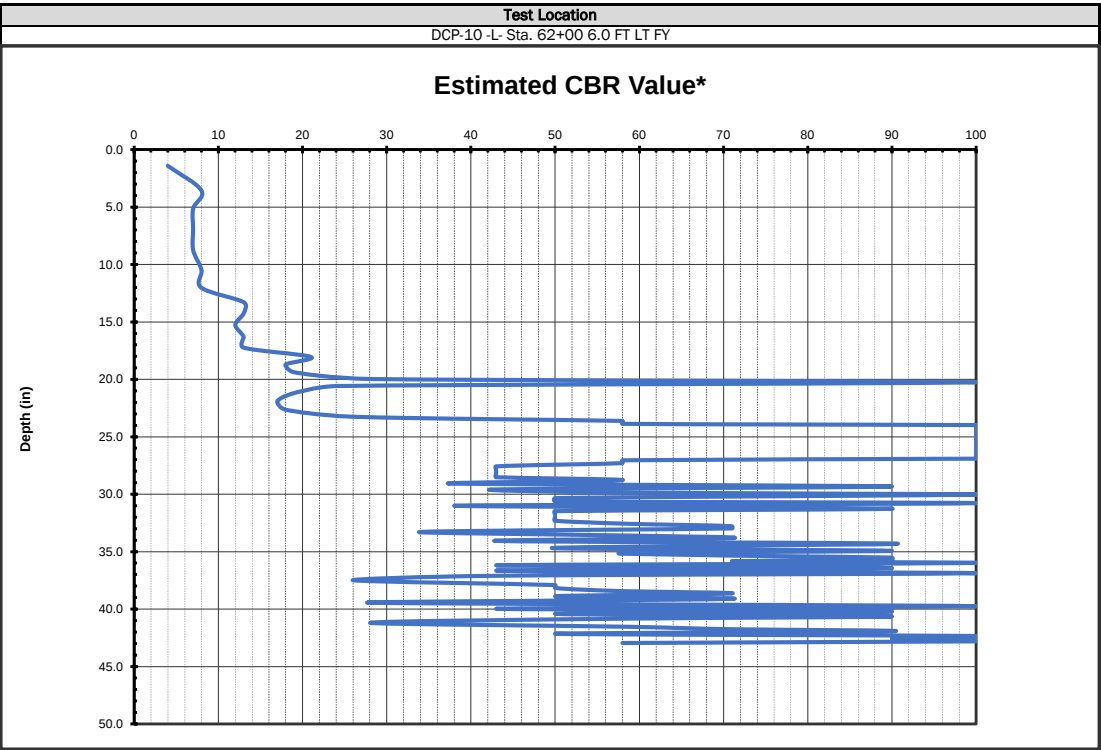


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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			
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



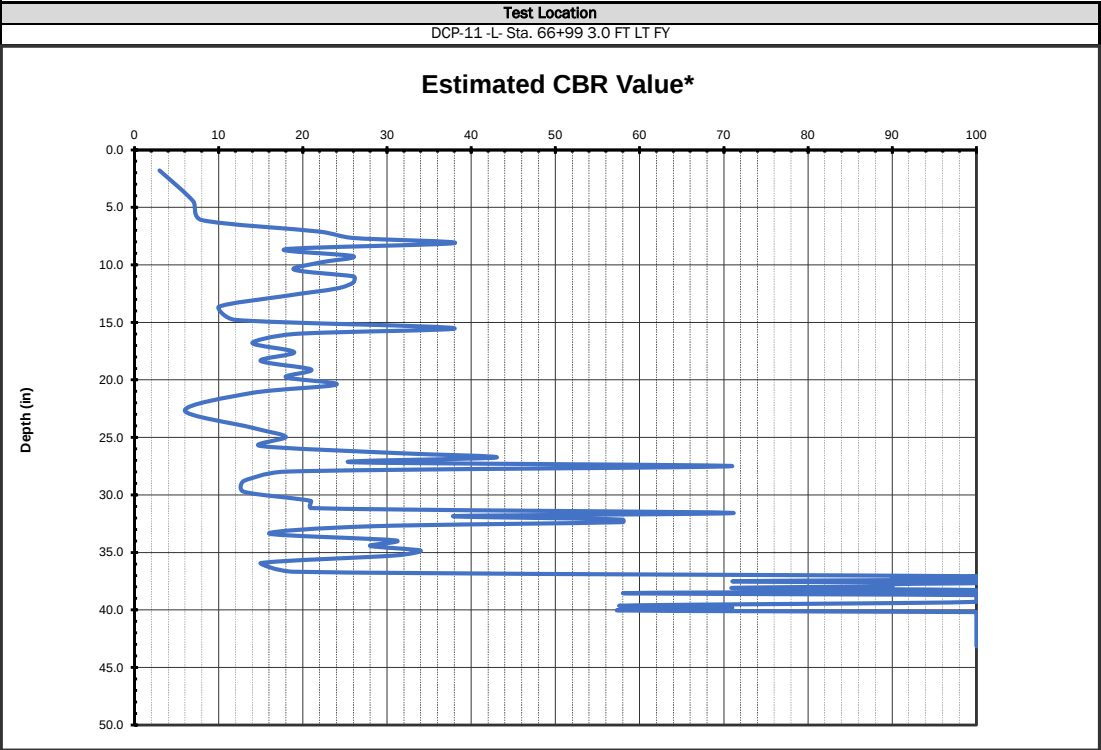
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

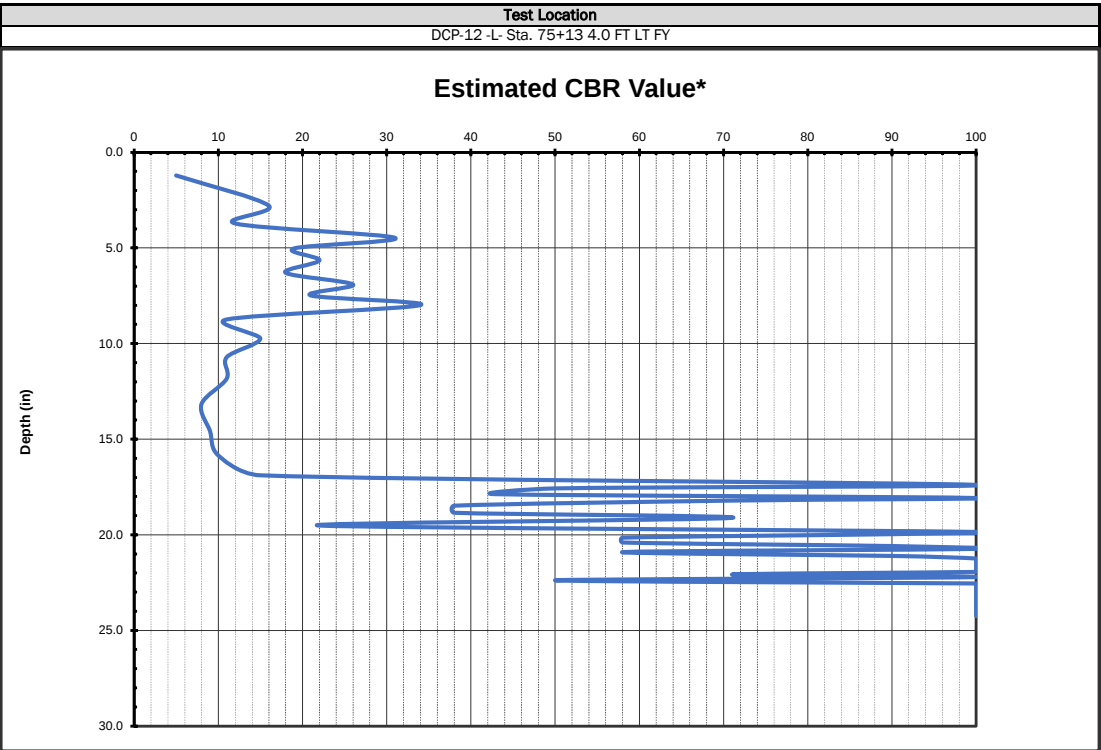


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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							



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

Soil Subgrade	
Average CBR	72
Weighted Average	28
Max CBR	100
Min CBR	3



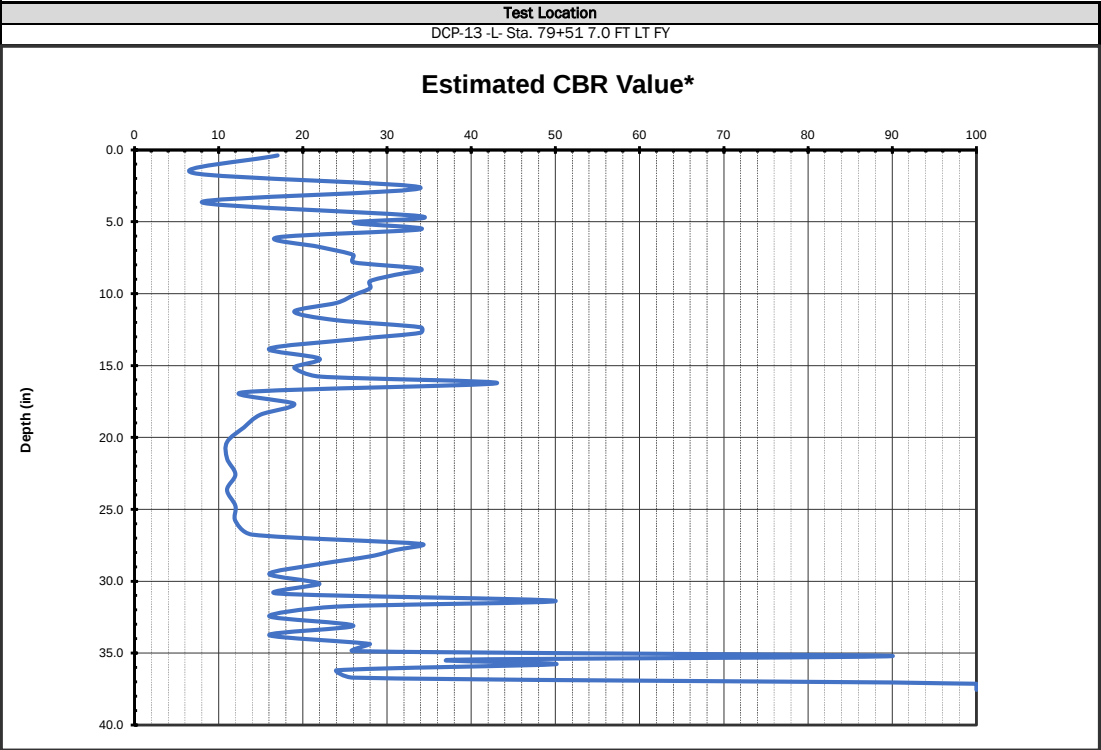
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

Soil Subgrade	
Average CBR	82
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)

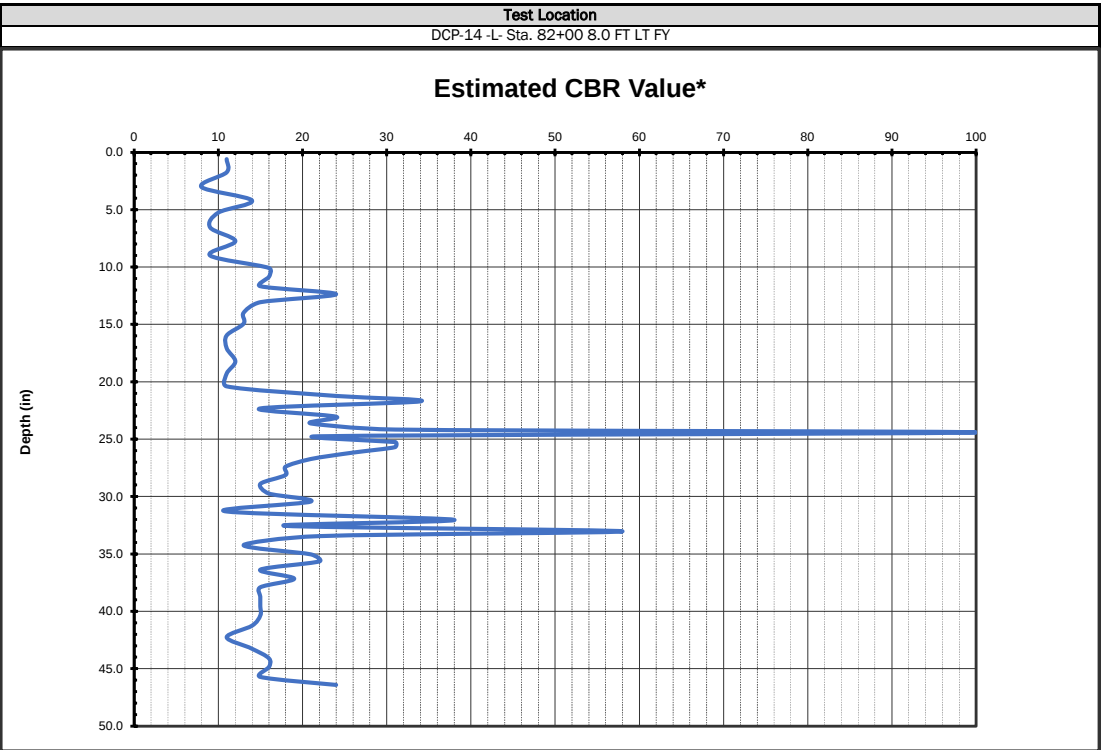


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				Date Run	Test Location				Date Run			
DCP-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	80/1.0"					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

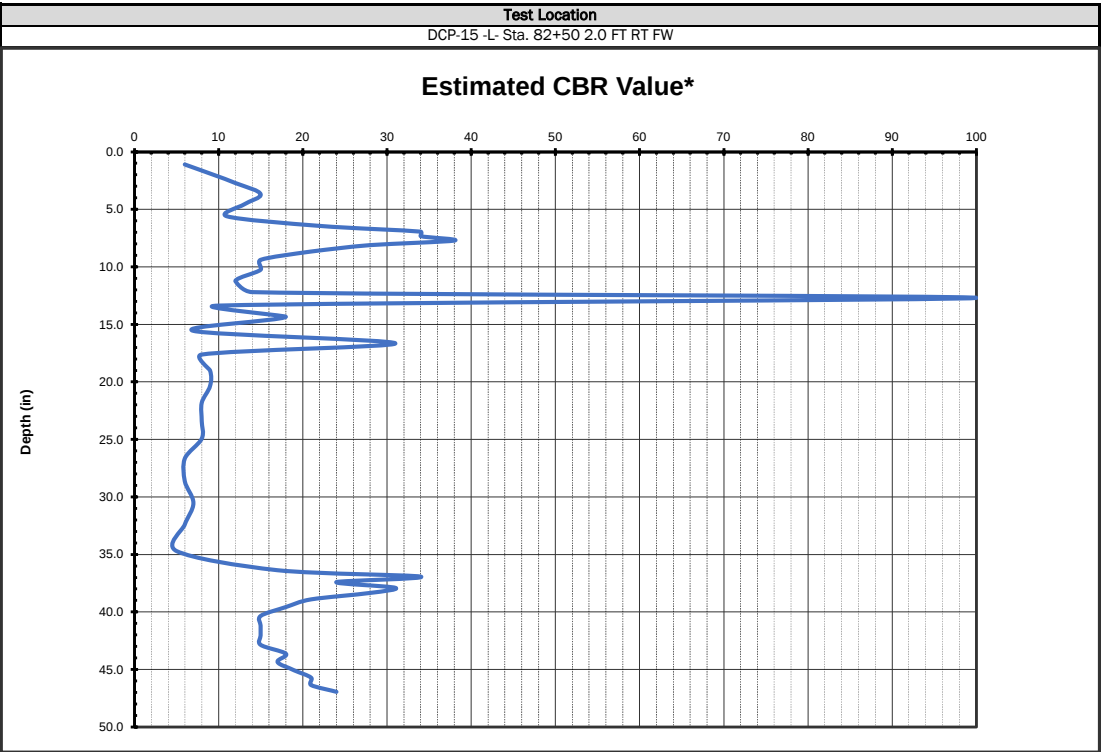


ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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

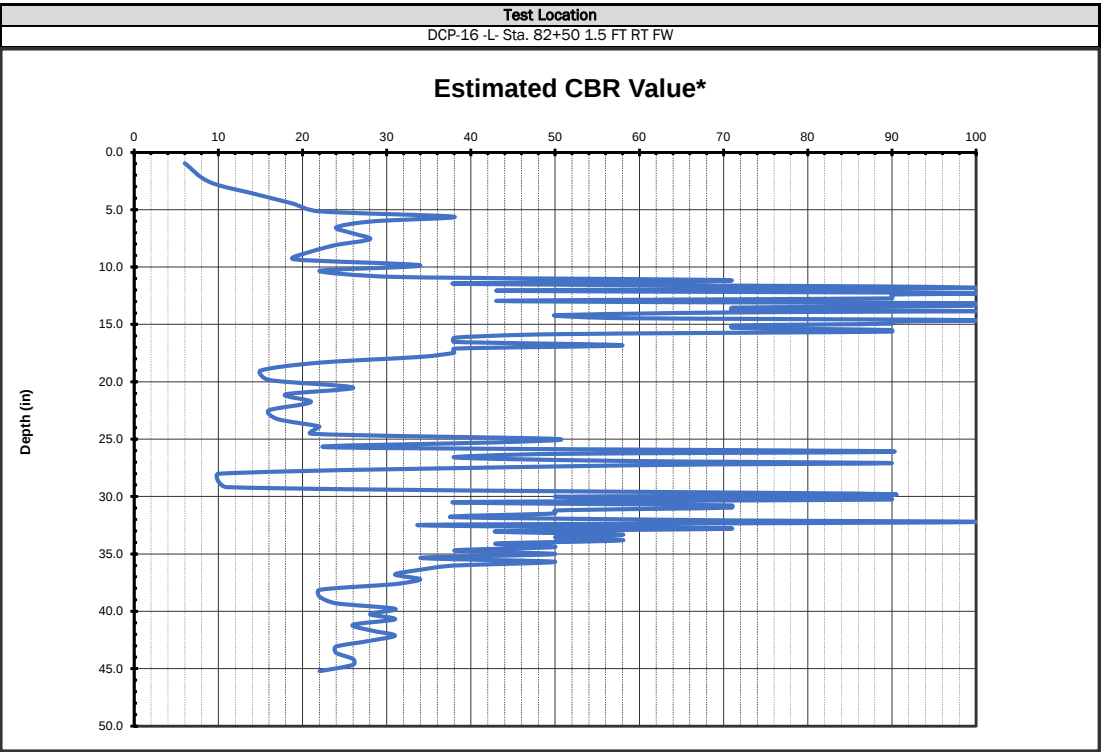
*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

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



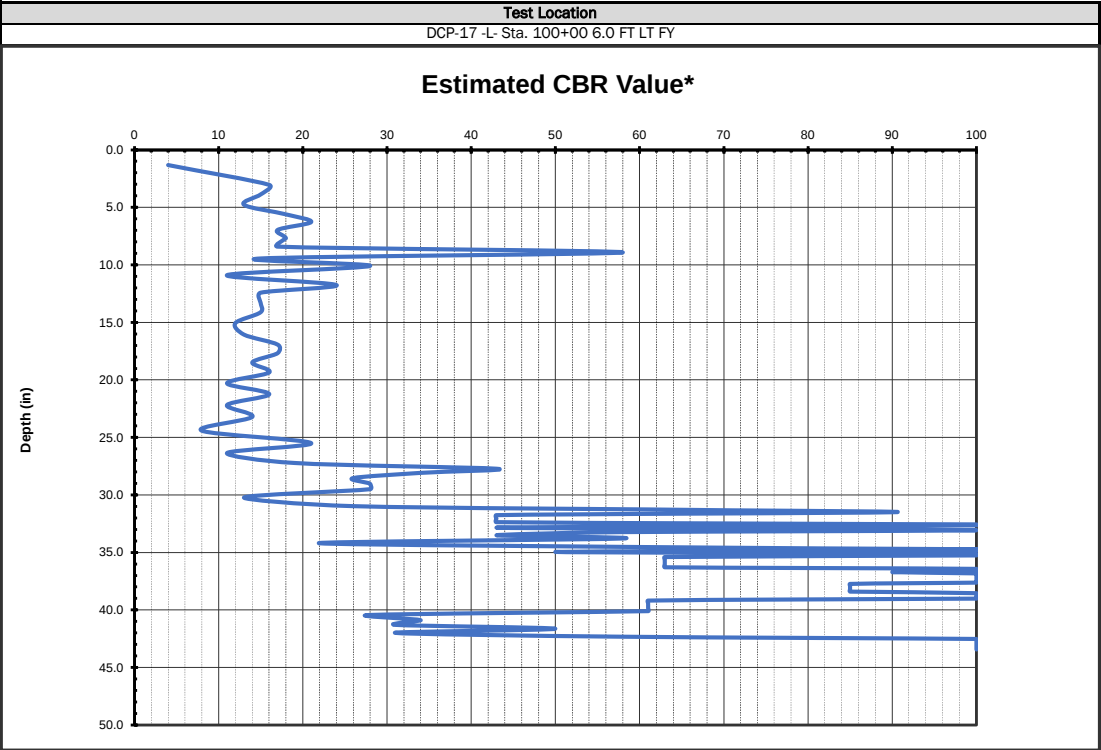
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

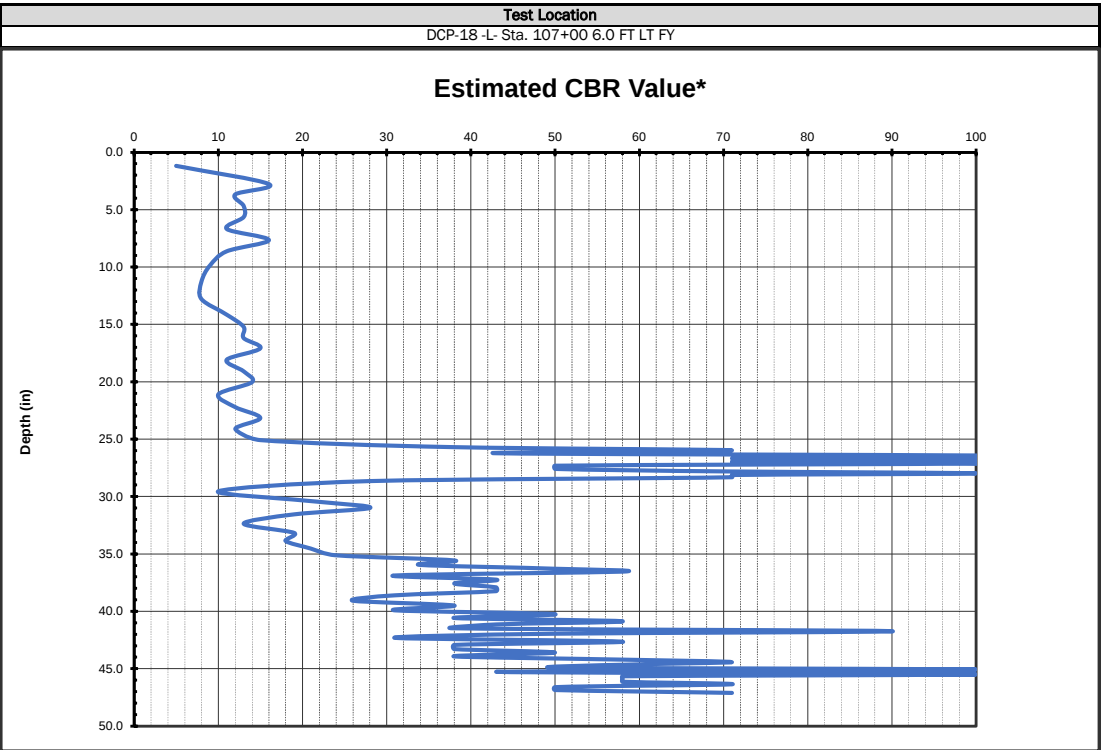


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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			
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

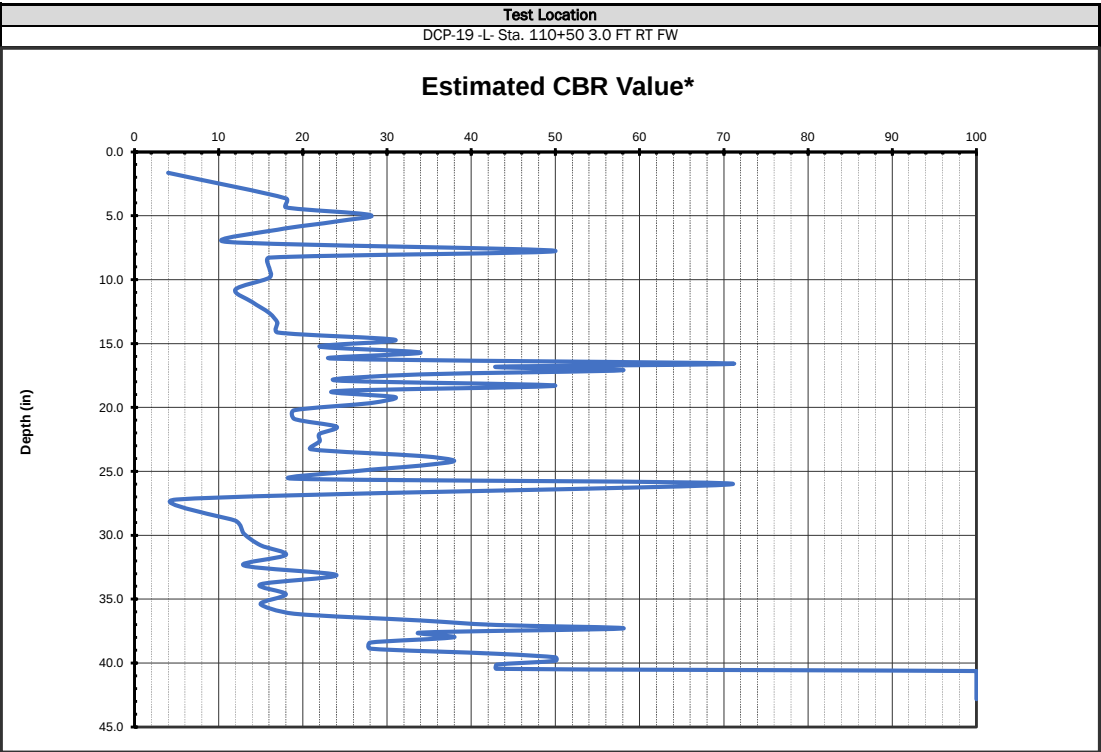


ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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

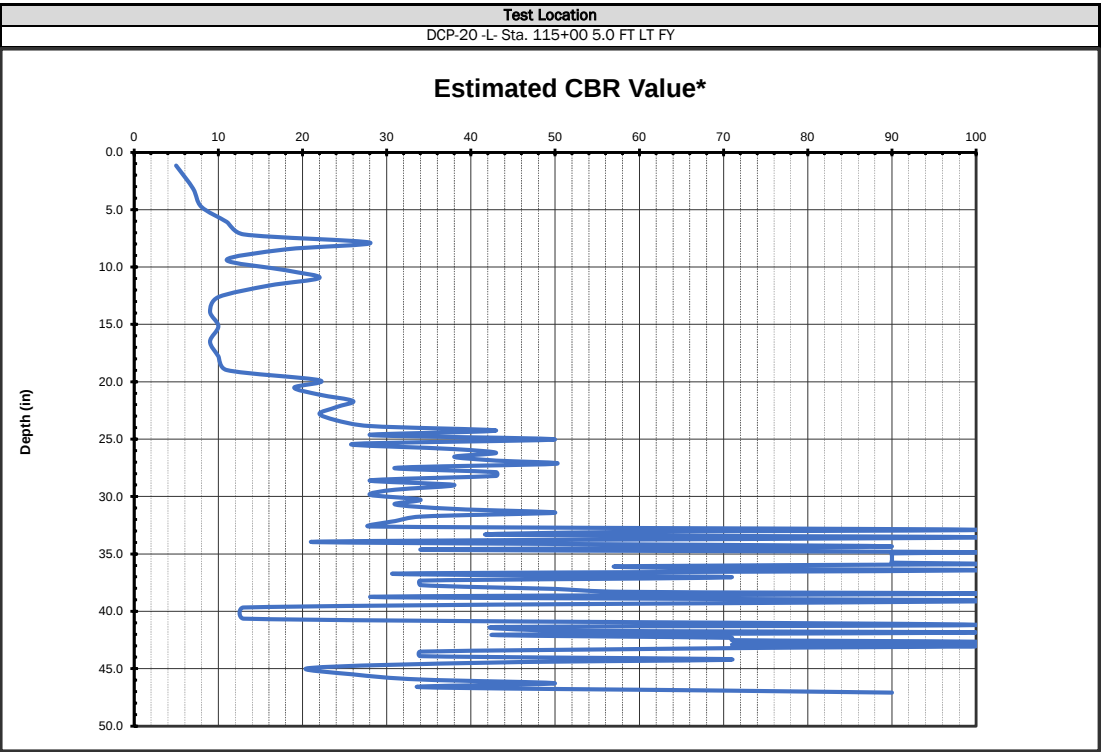
*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

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	
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



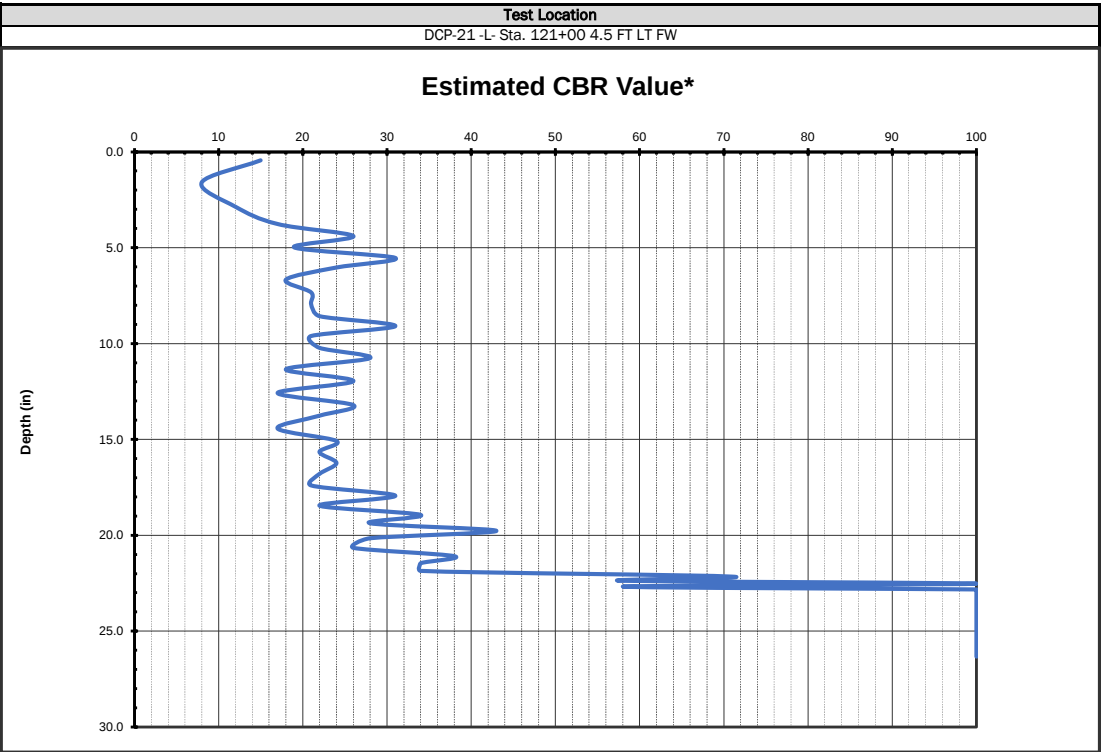
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

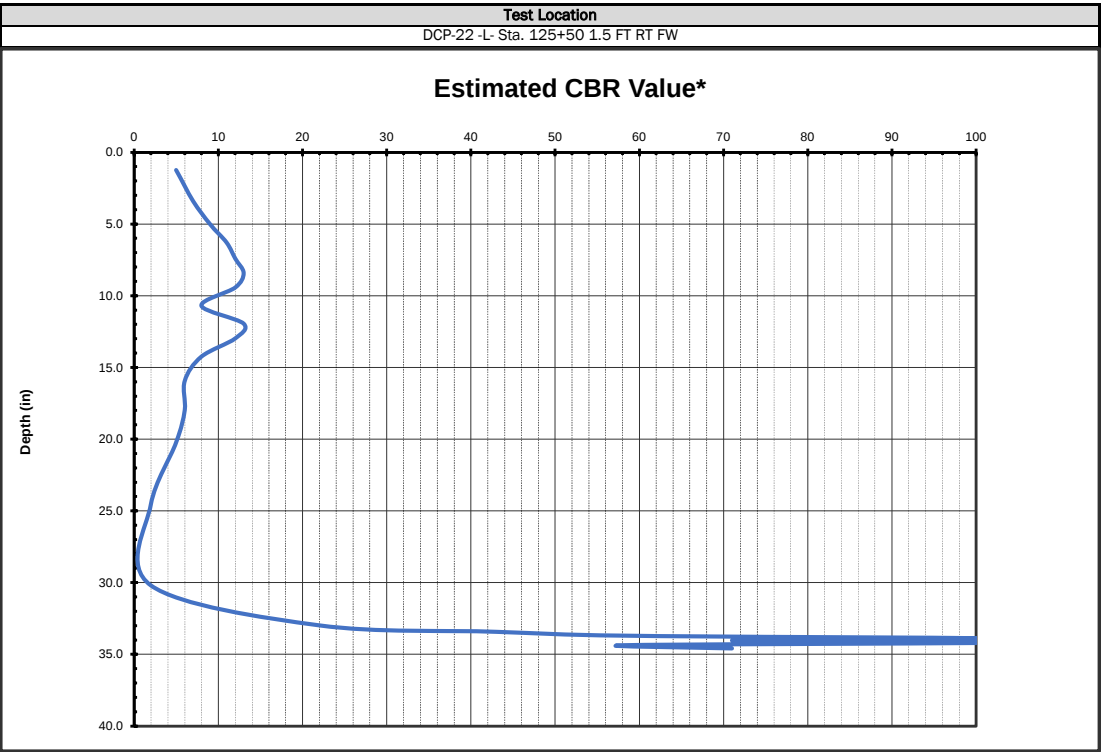


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.		ROUTE		
				48470.1.1	R-5921		US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40		
				COUNTY	FIELD PROFESSIONAL		DRILLER/HELPER		
				Haywood	T. Wenner, P.G.		M. Brewer, P. Tomasic		
Test Location				Date Run	Test 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

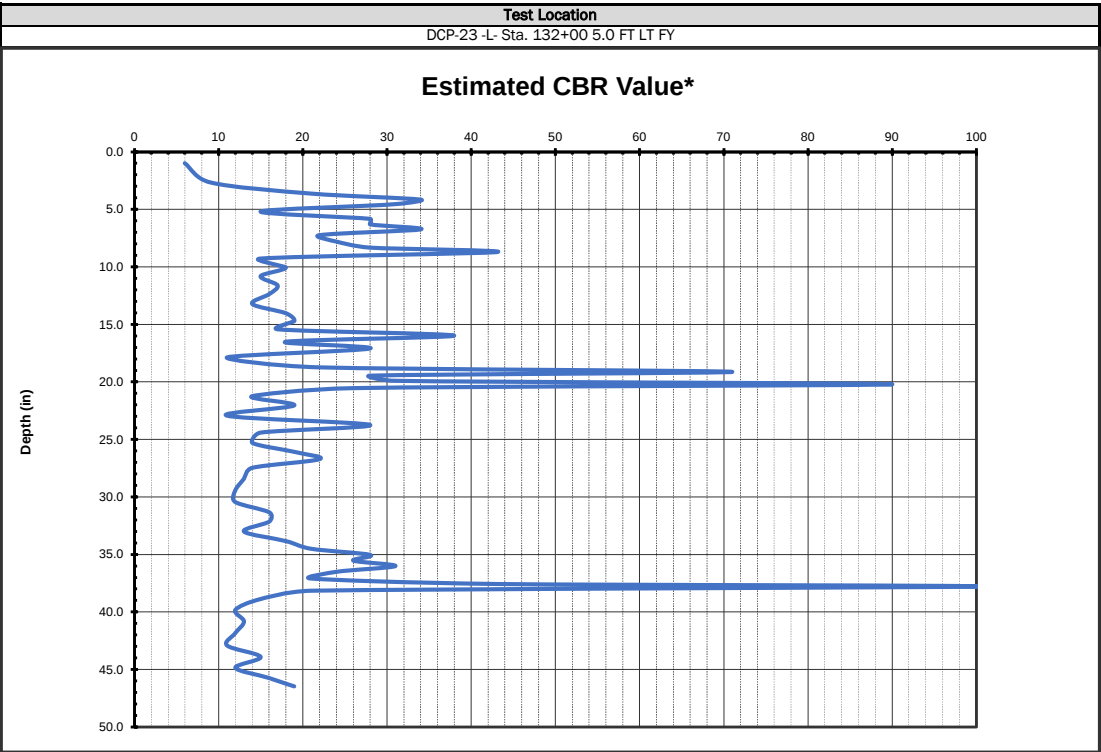


ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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

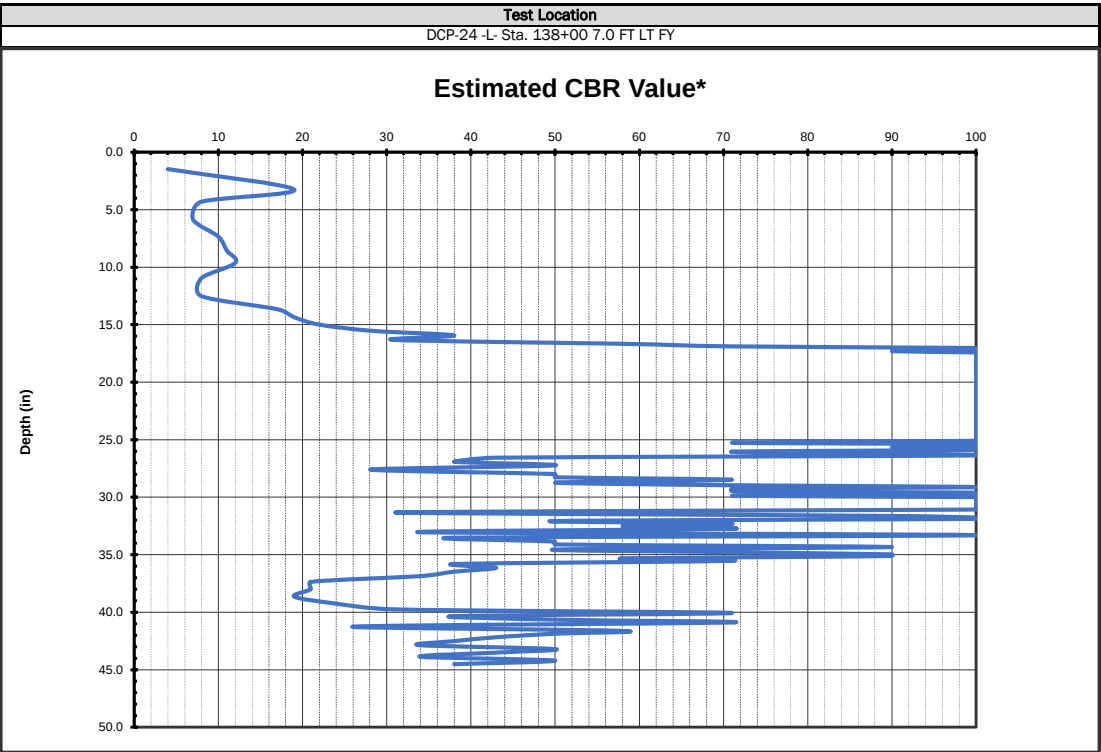
*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

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		
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



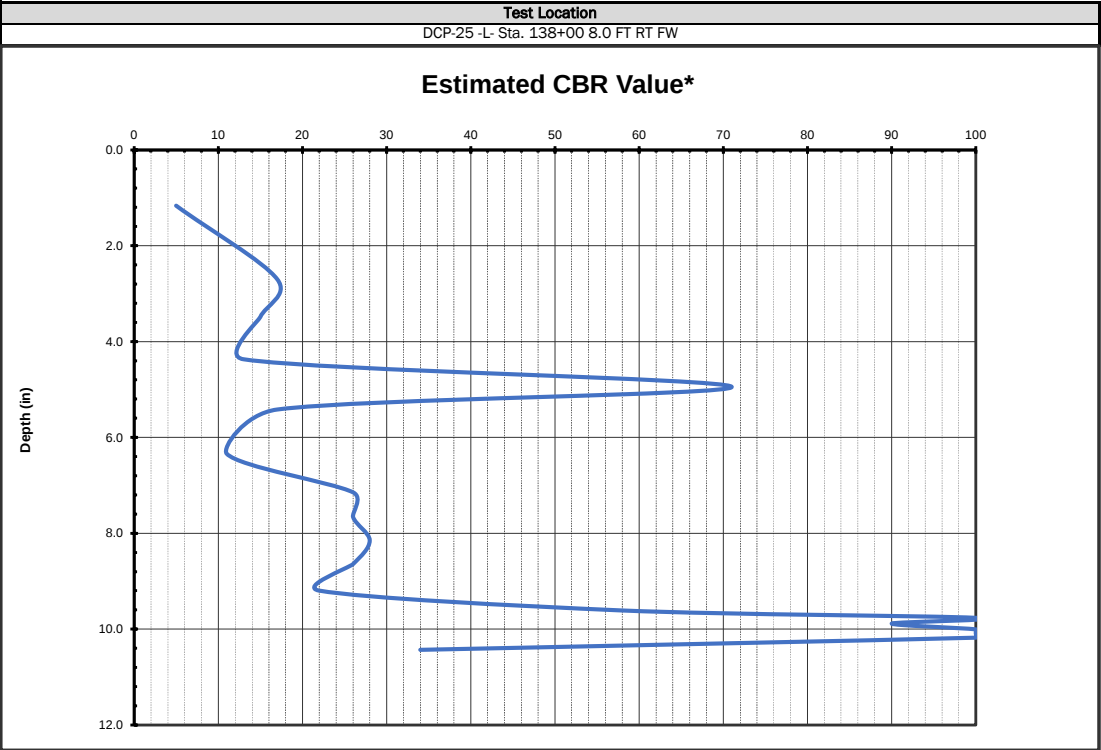
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

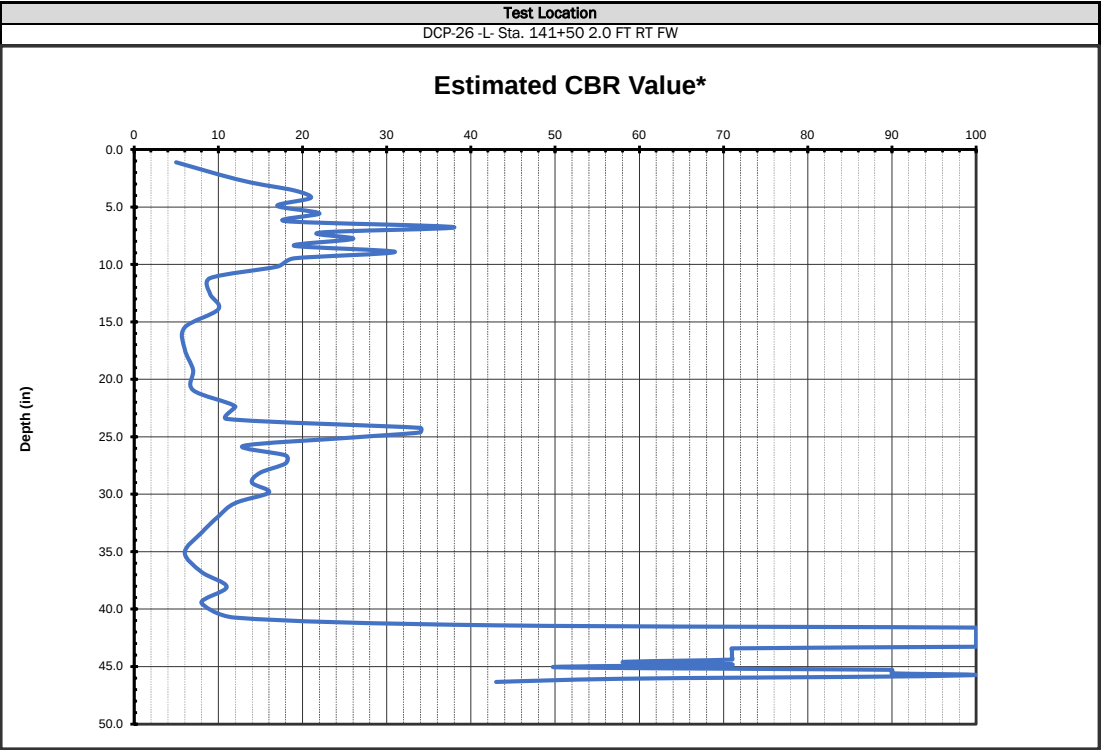


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



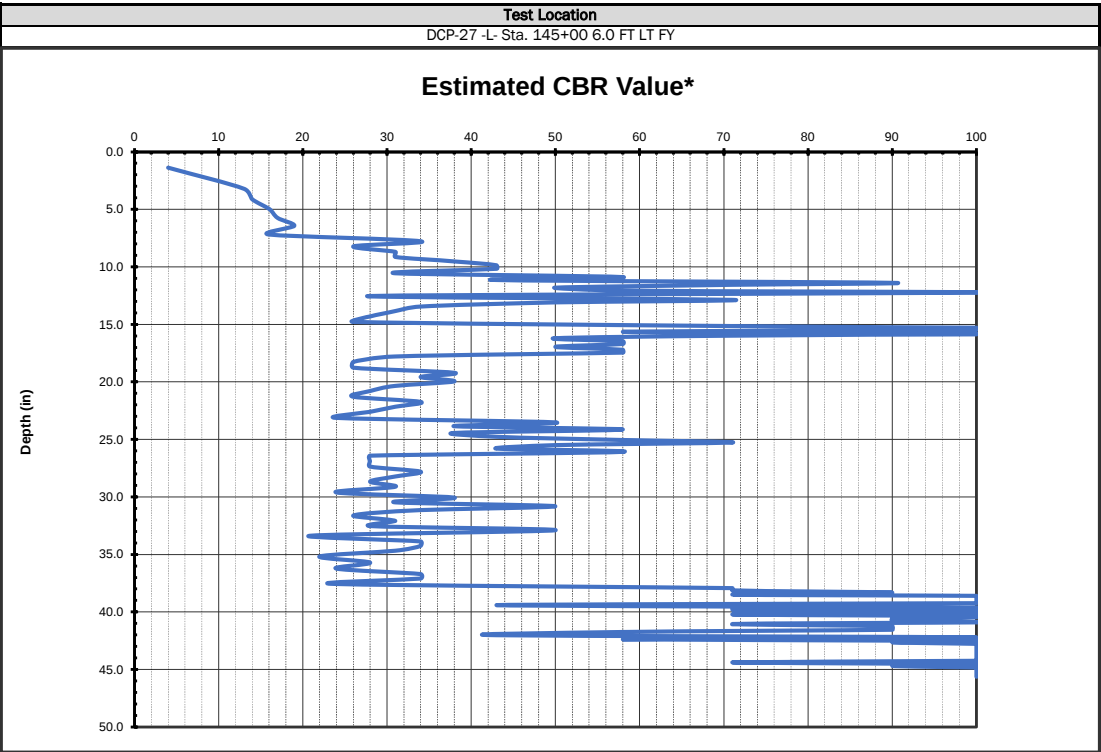
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

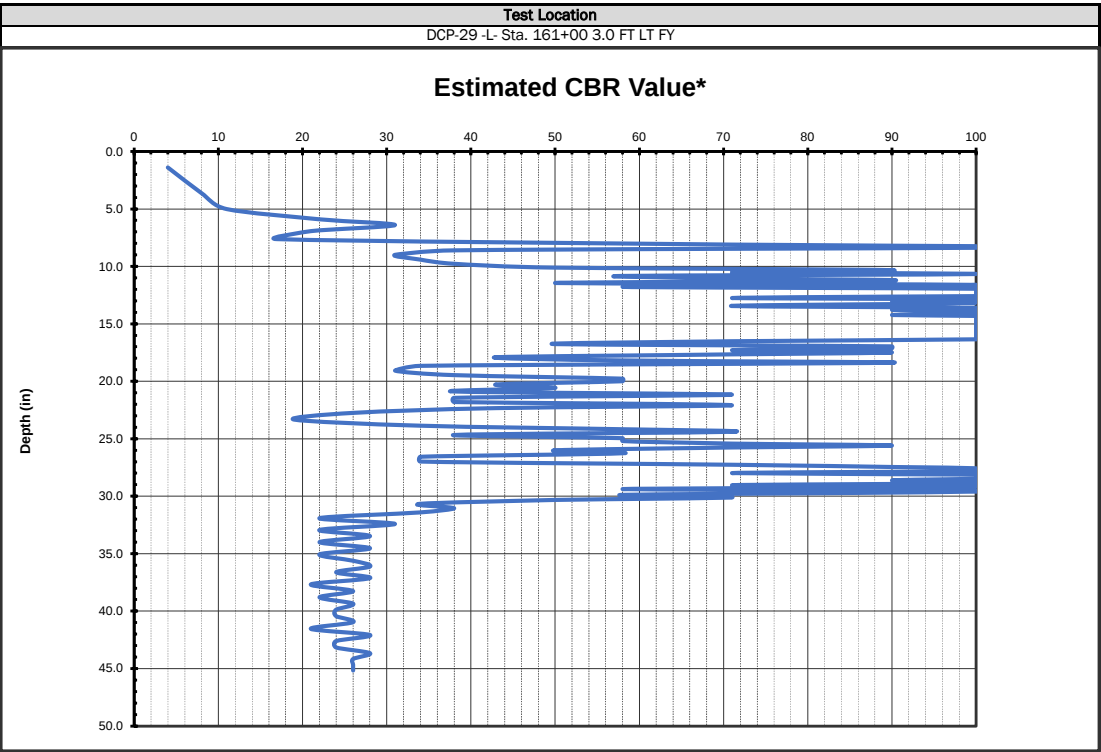


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET					WBS NO.	PROJECT TIP I.D.				ROUTE			
					48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
					COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
					Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location					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



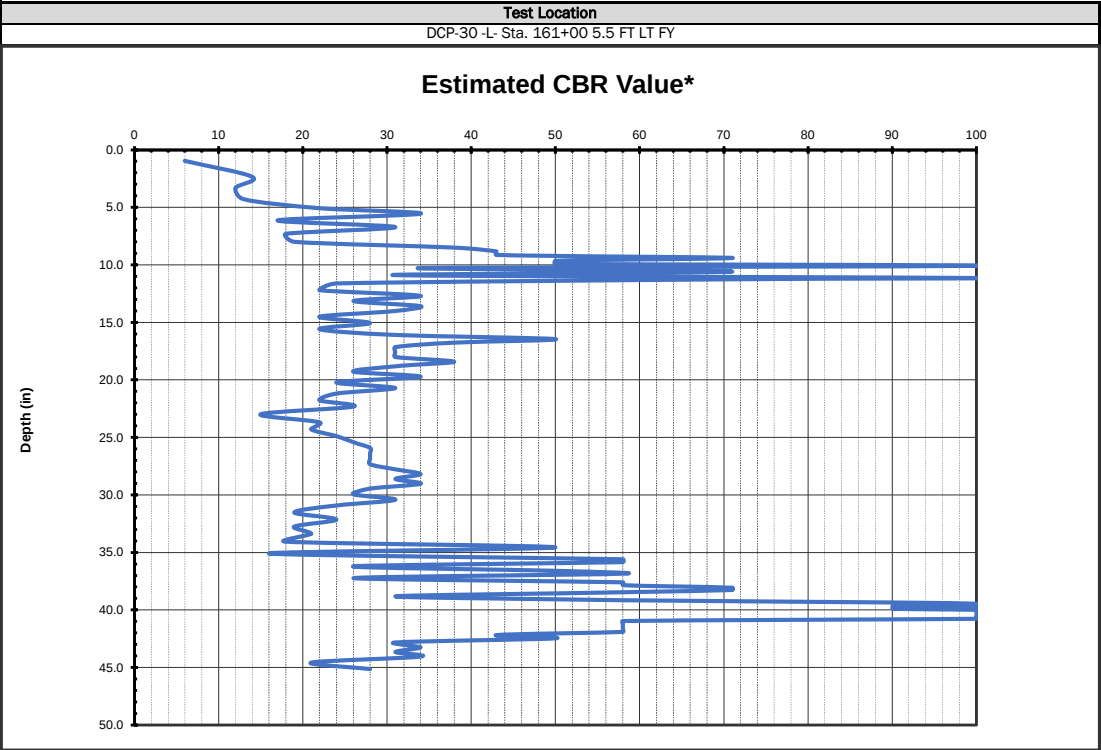
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

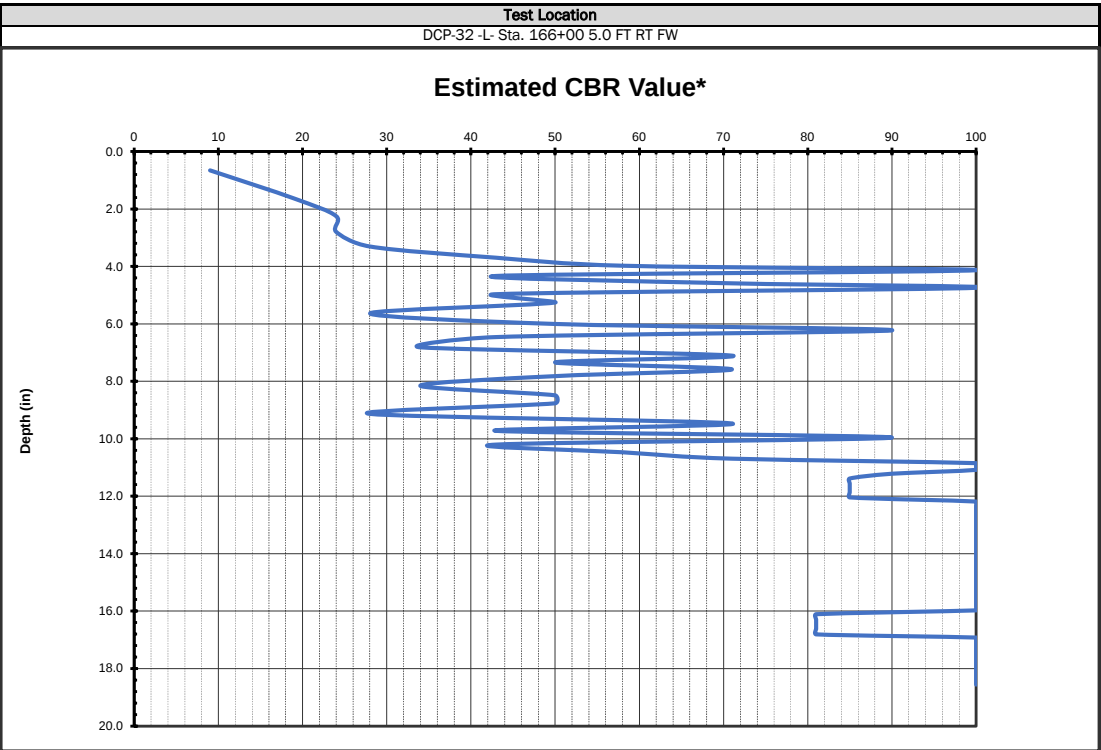


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	50/4.0"						
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



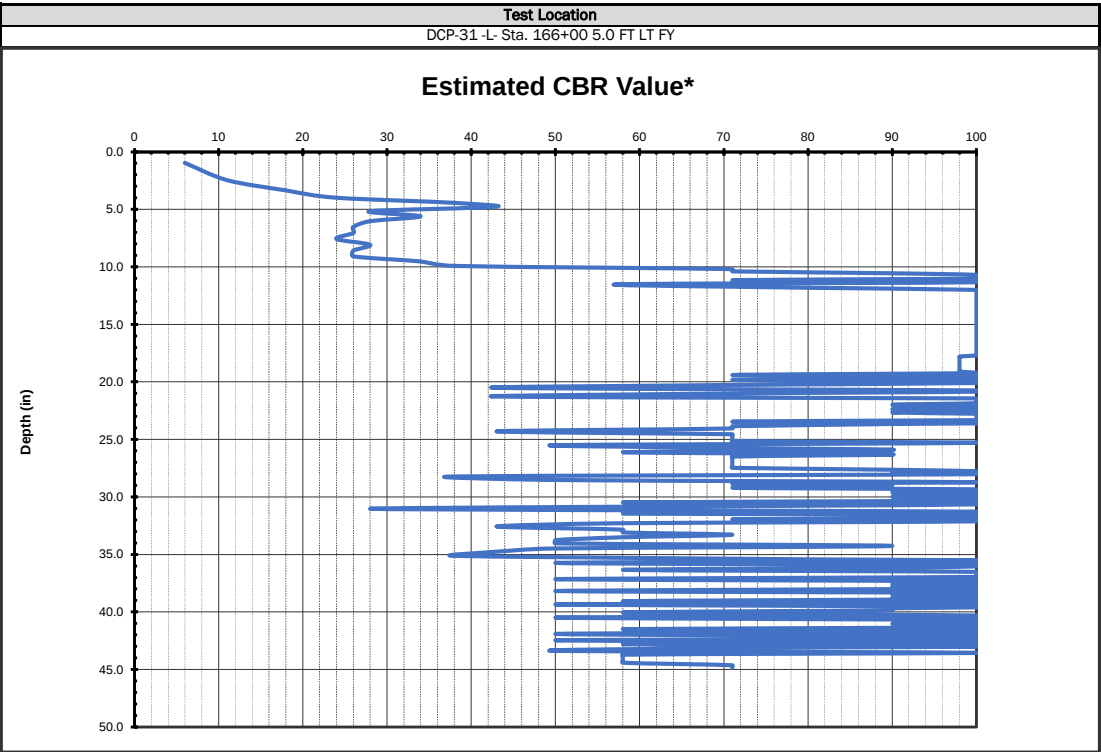
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

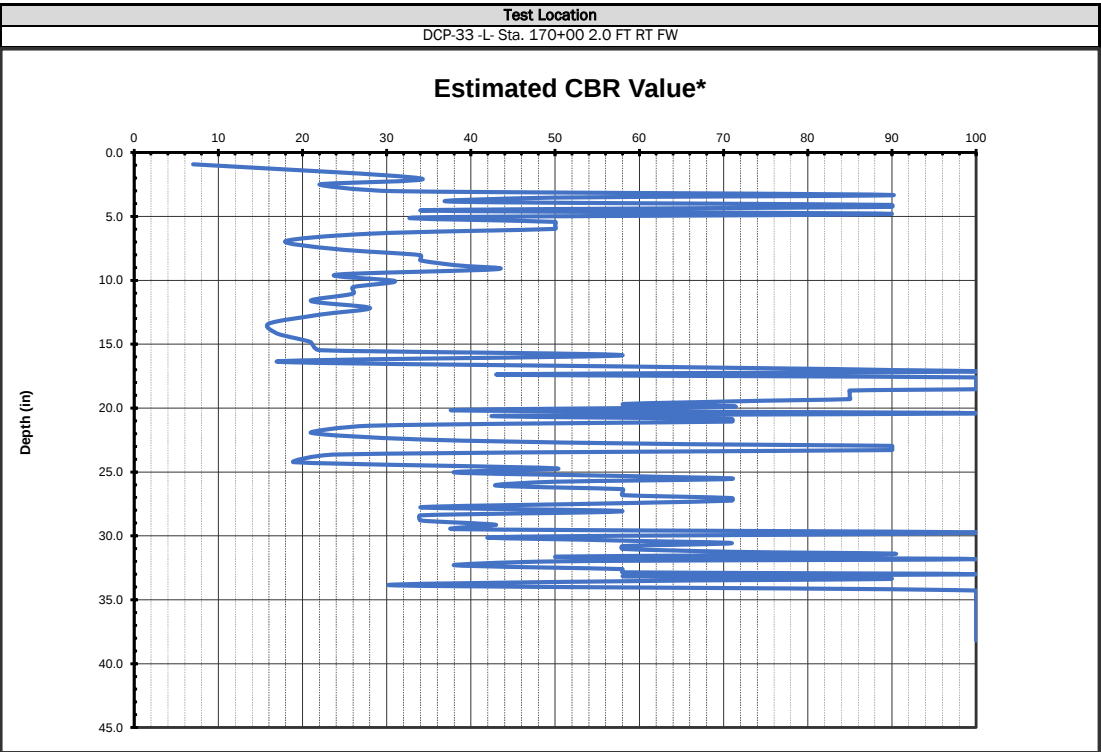


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET						WBS NO.	PROJECT TIP I.D.		ROUTE			
						48470.1.1	R-5921		US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
						COUNTY	FIELD PROFESSIONAL		DRILLER/HELPER			
						Haywood	T. Wenner, P.G.		M. Brewer, P. Tomasic			
Test Location						Date Run	Test Location				Date Run	
DCP-31 -L- Sta. 166+00 5.0 FT LT FY						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



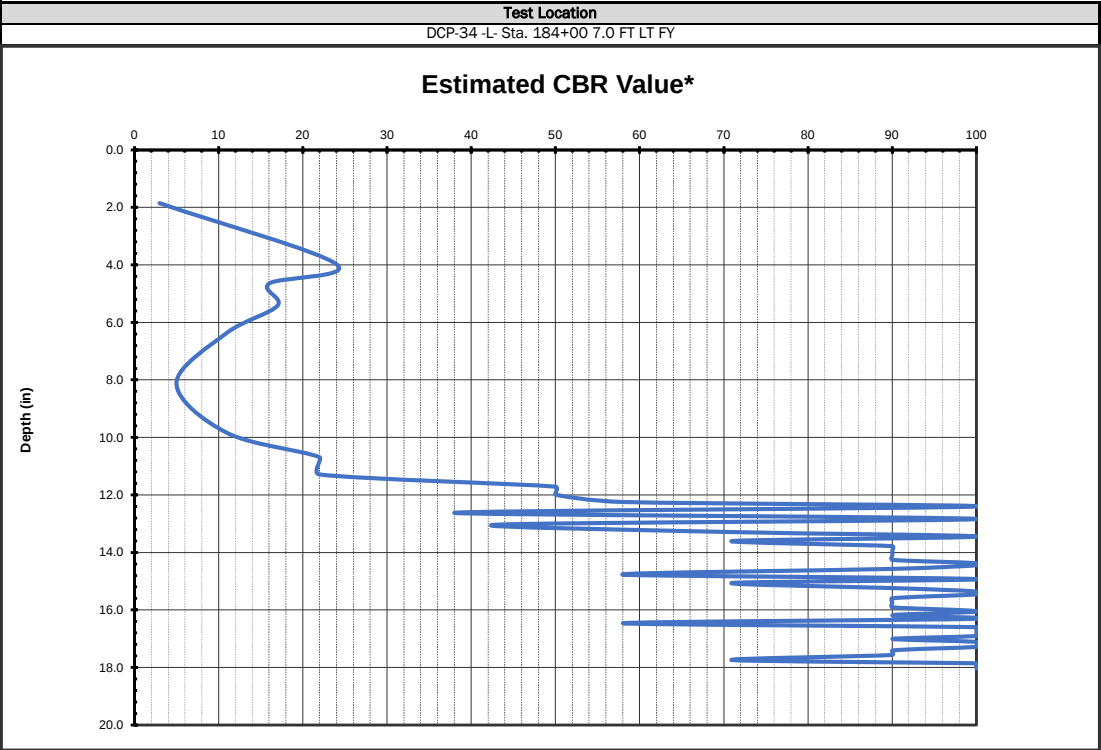
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

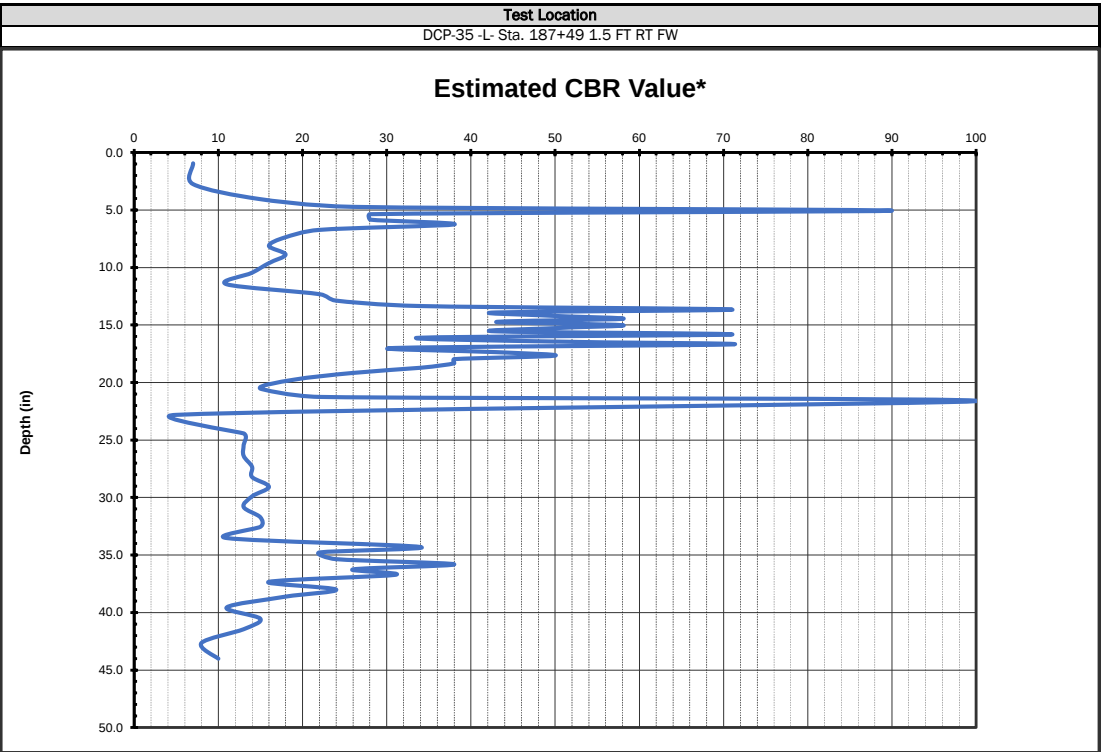


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.		ROUTE	
				48470.1.1	R-5921		US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40	
				COUNTY	FIELD PROFESSIONAL		DRILLER/HELPER	
				Haywood	T. Wenner, P.G.		M. Brewer, P. Tomasic	
Test Location				Date Run	Test 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		Cut/Fill
DCP	Cumulative cm per blow		SG (A-4)	5.0 ft Fill	DCP	Cumulative cm per blow		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 REF				51.00			
42.10	50/0.8"				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

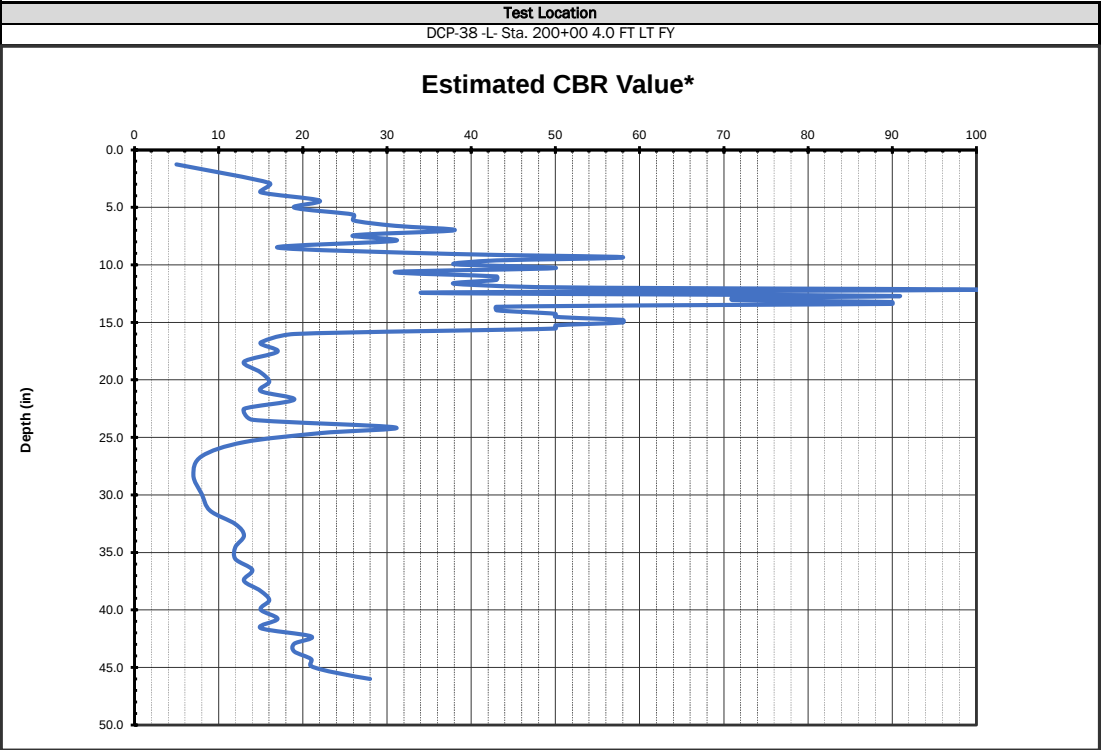
*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

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)

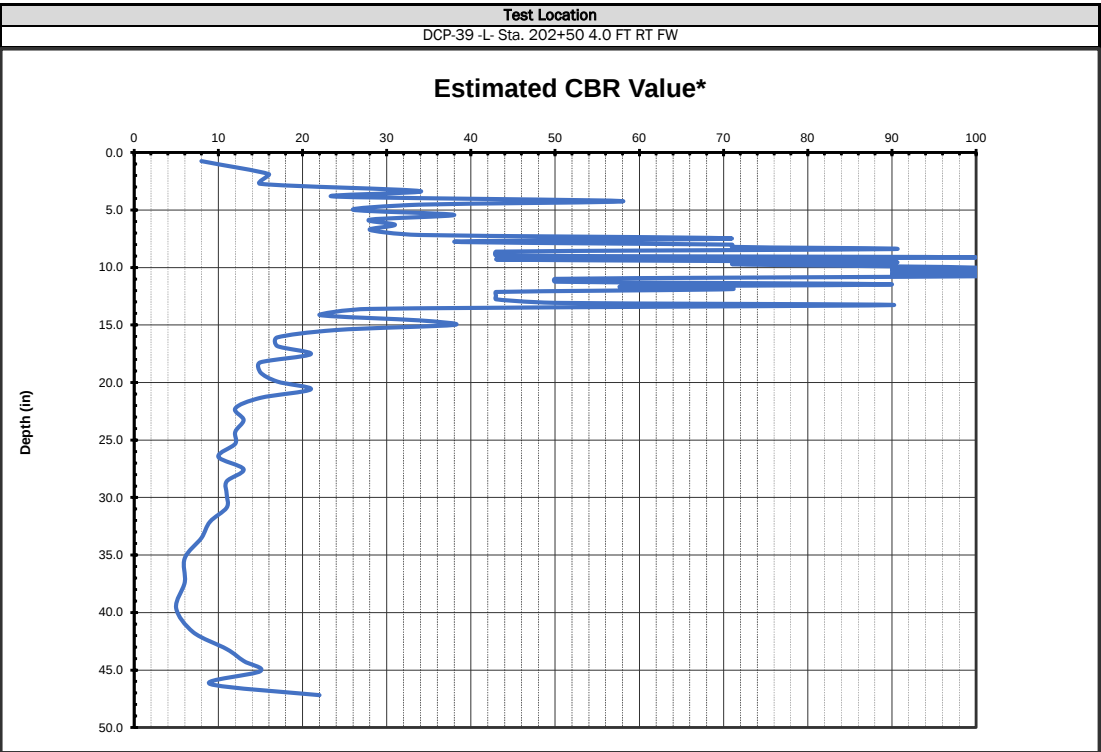


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



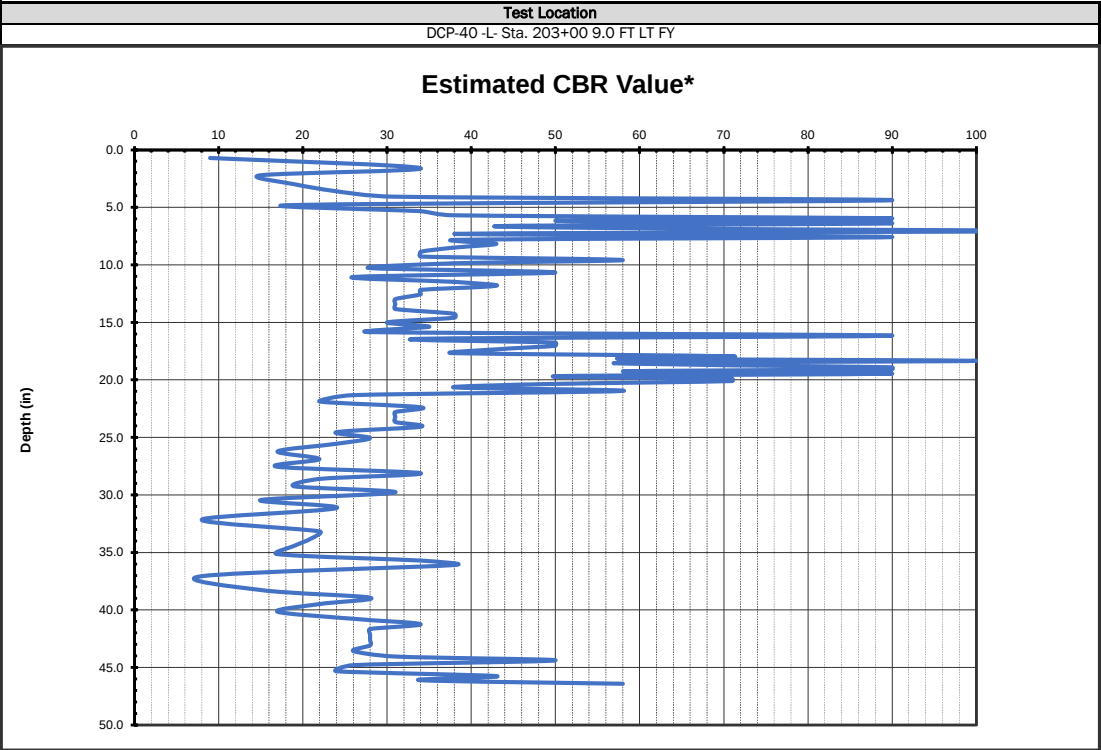
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

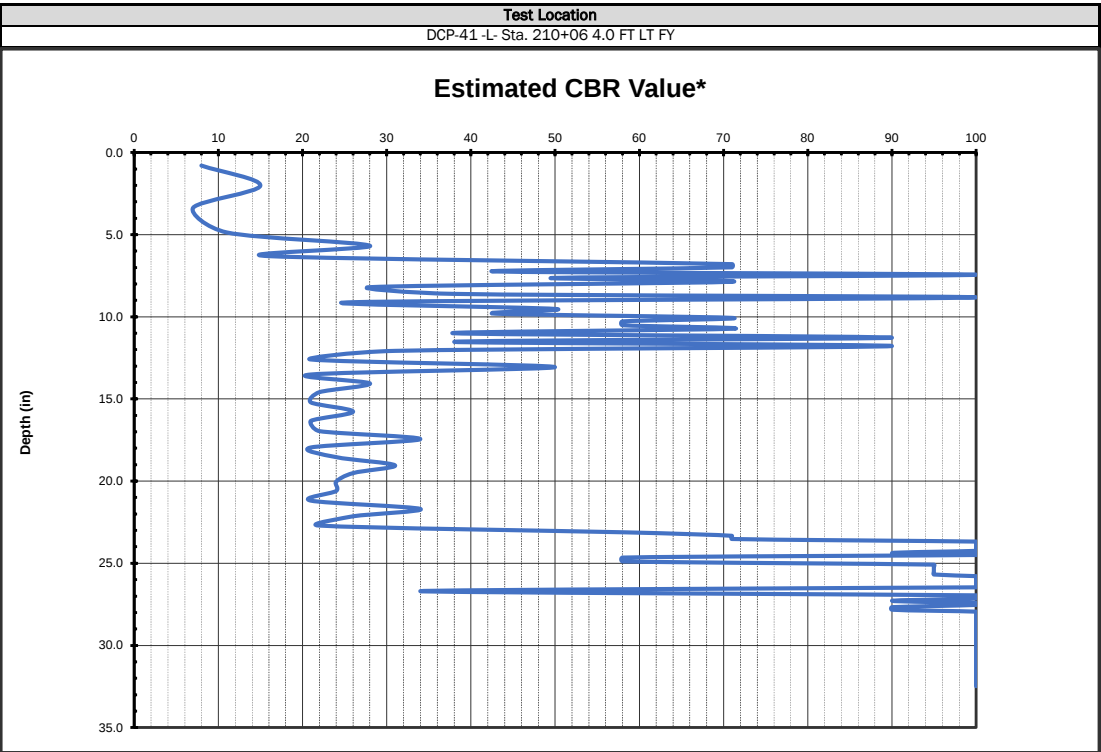


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET					WBS NO.	PROJECT TIP I.D.				ROUTE			
					48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
					COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
					Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location					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

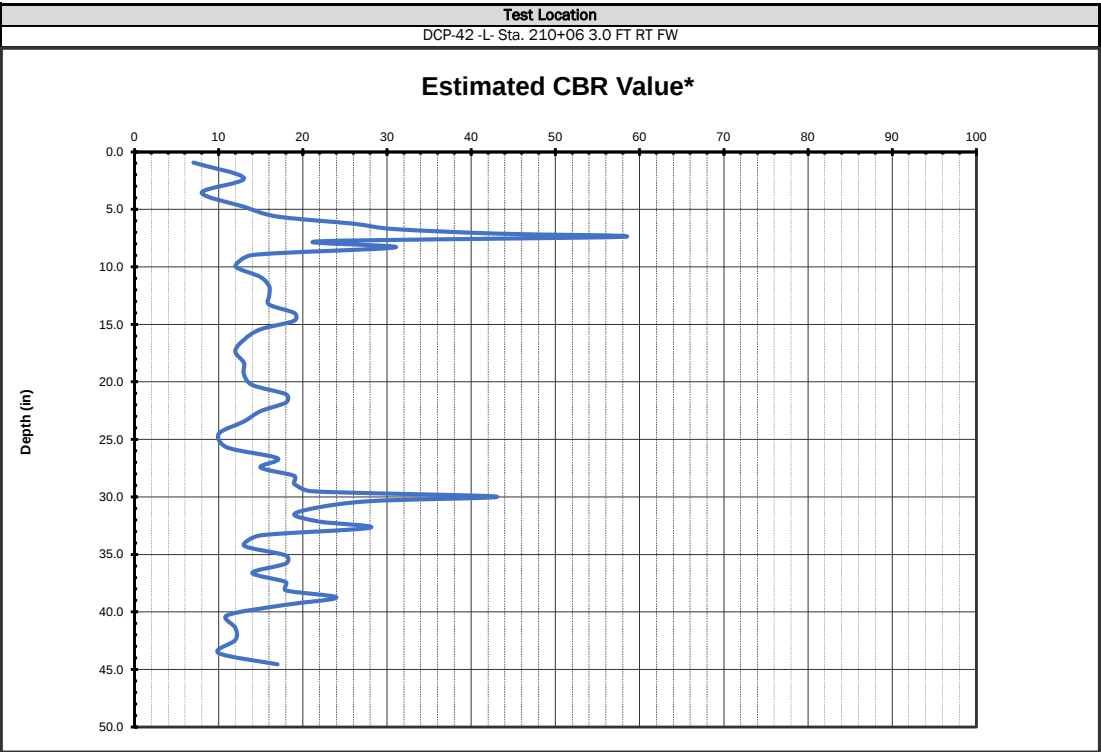


ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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

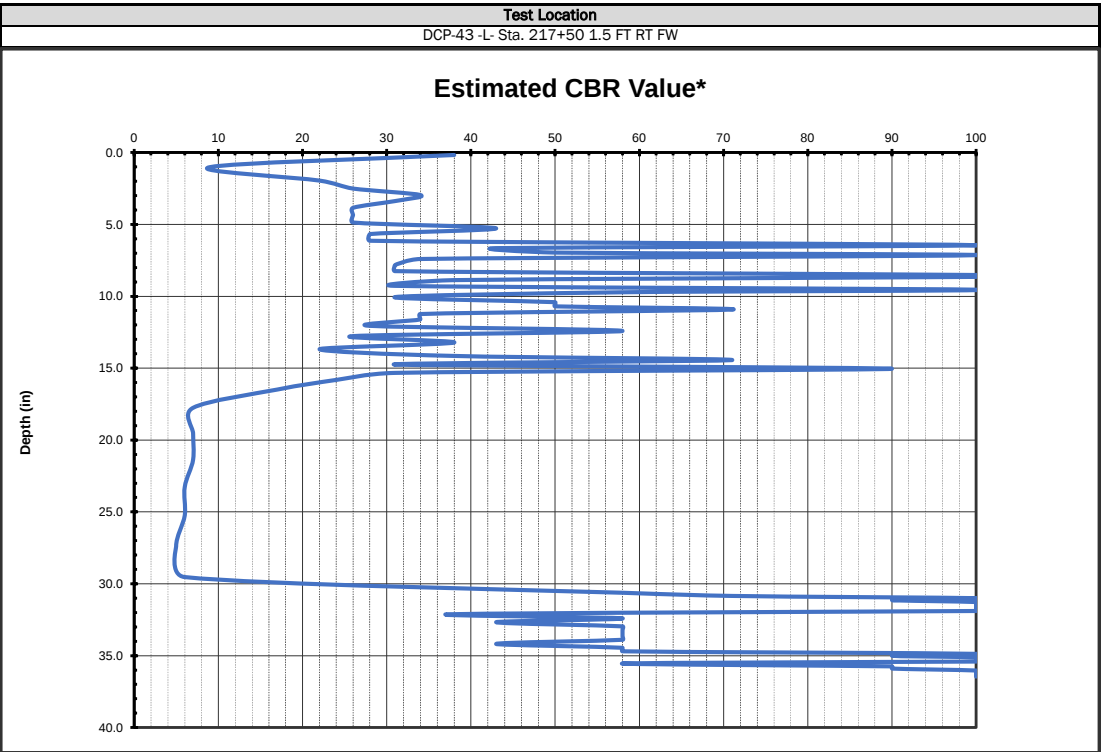
*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

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		
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	86.0.8"				
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

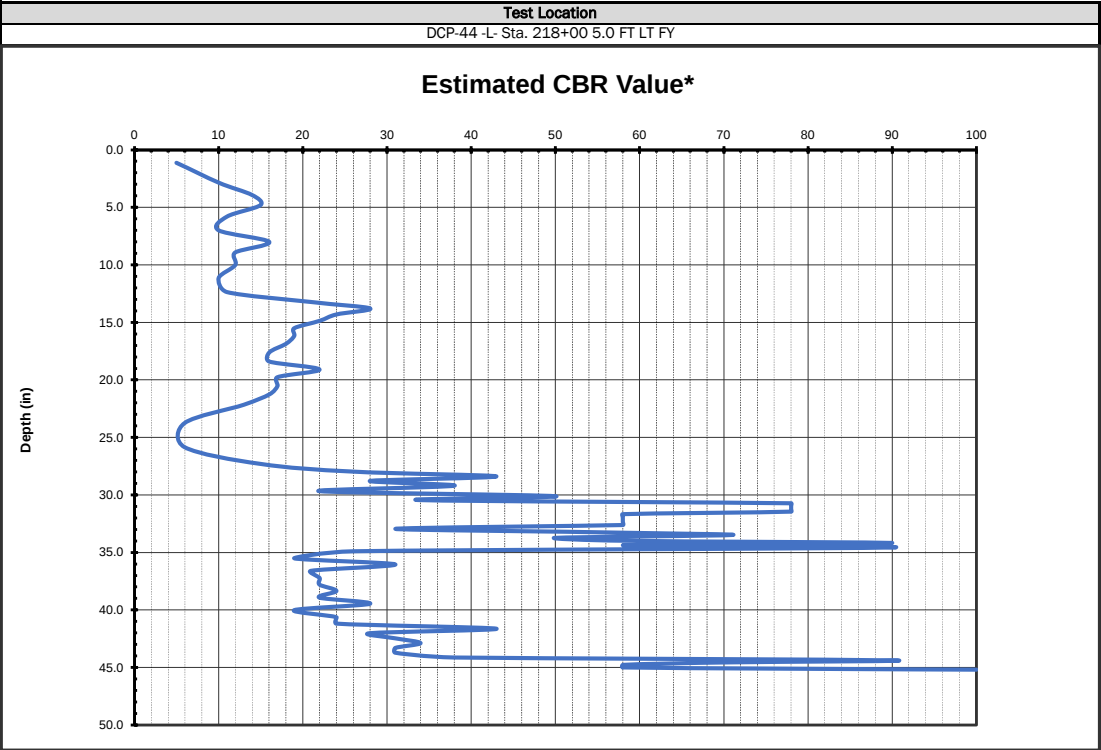


ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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

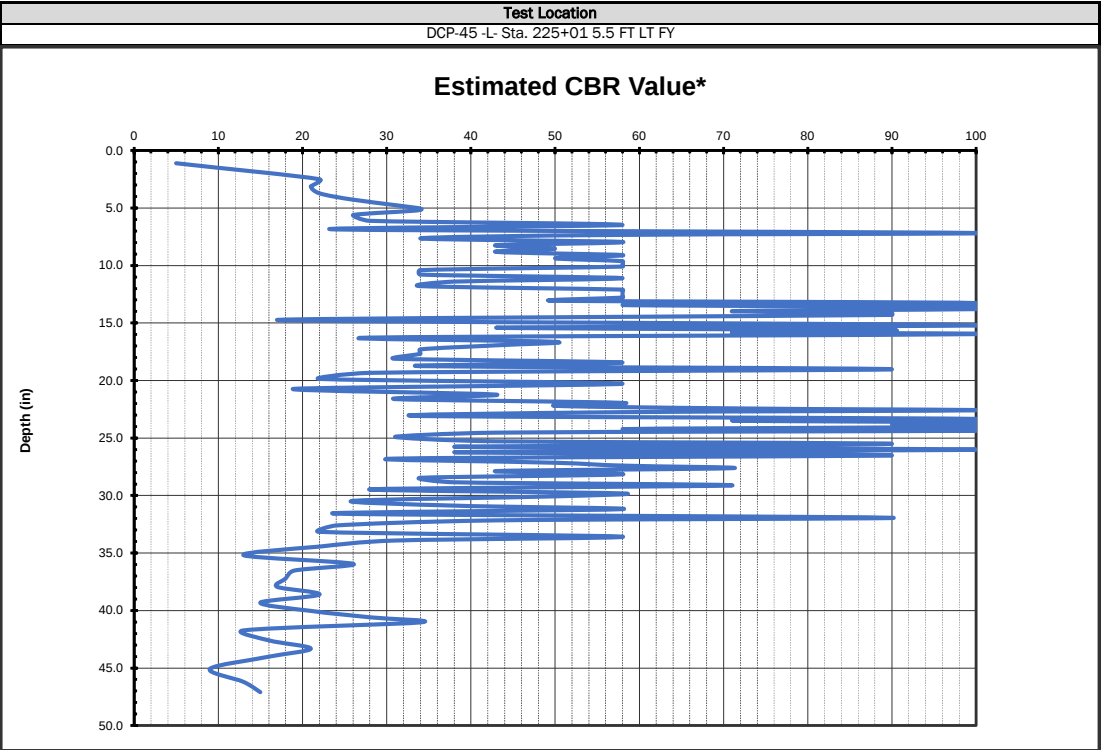
*Estimated CBR Value obtained using published correlation provided by NCDOT (Chemical Stabilization QA Subgrade/Base Field Testing, 2015)

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



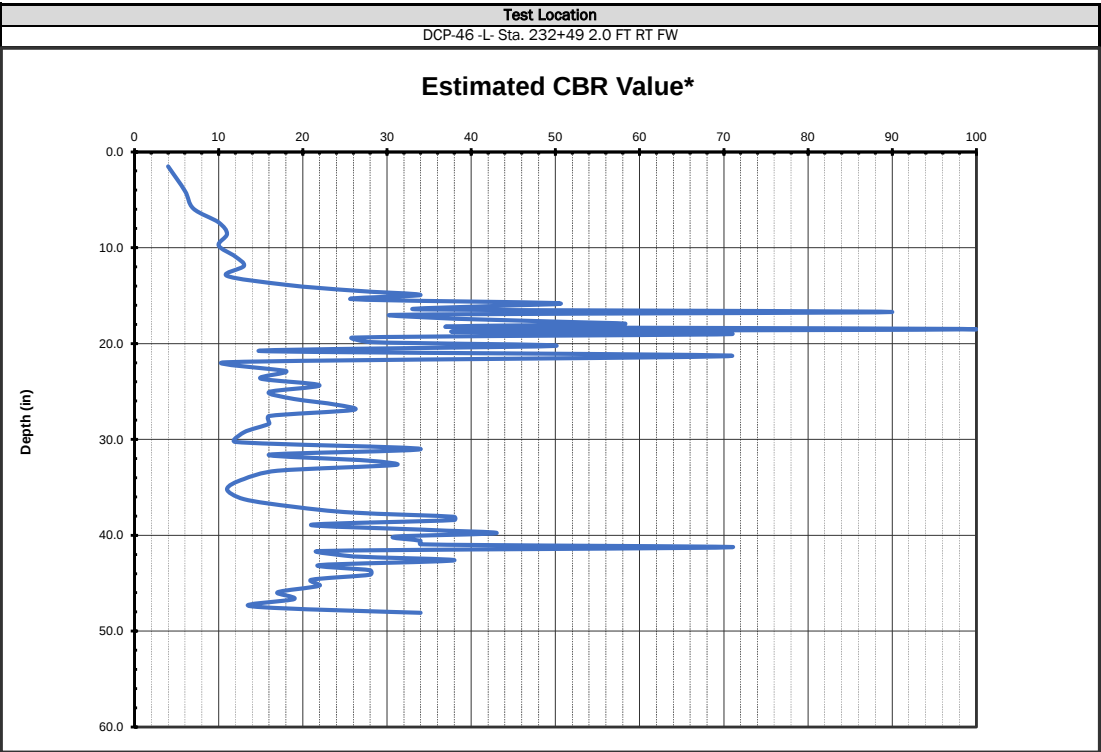
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

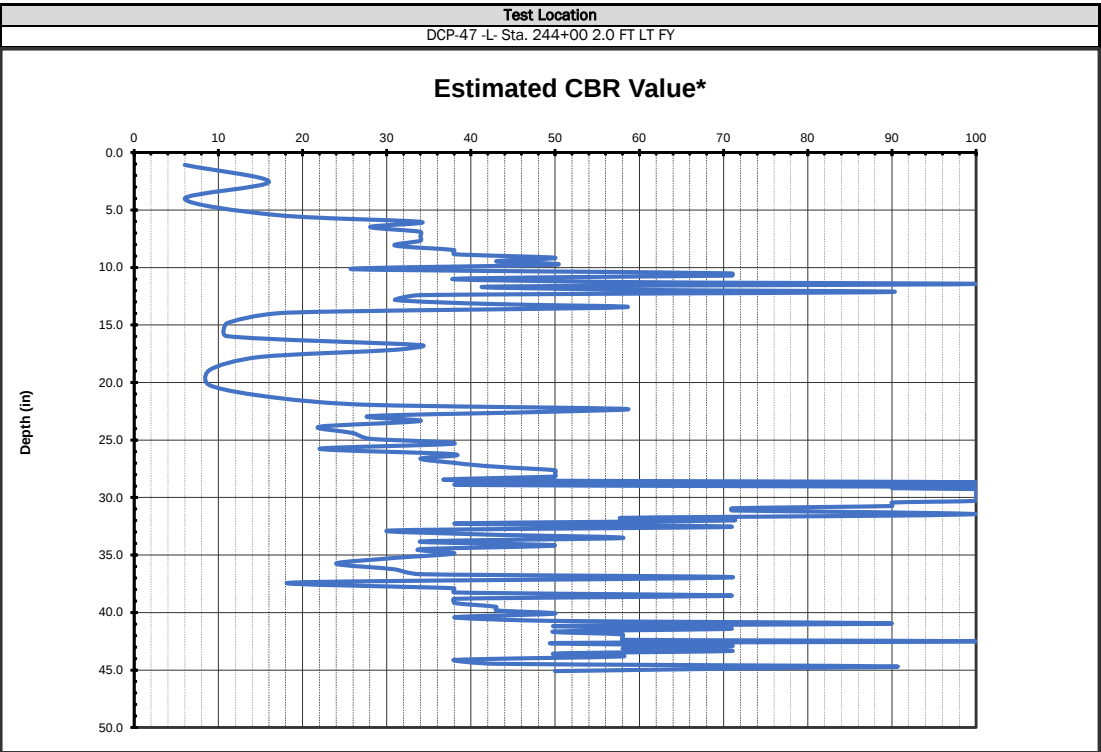


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



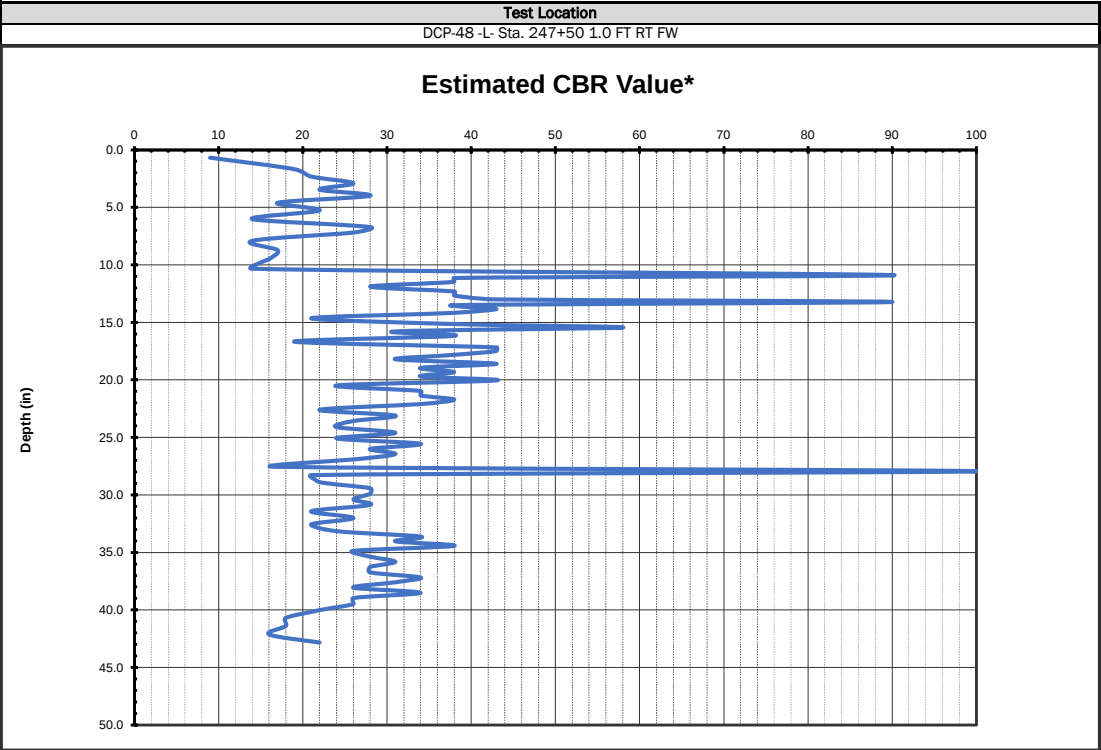
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

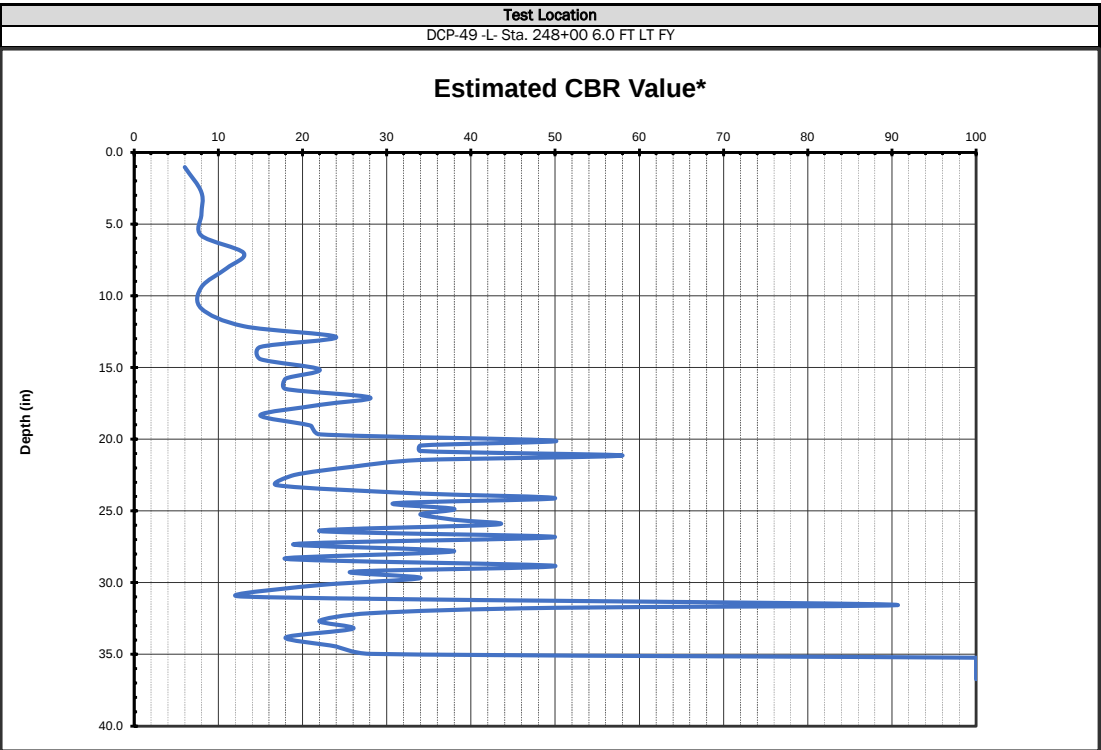


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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	80/3.0"						
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

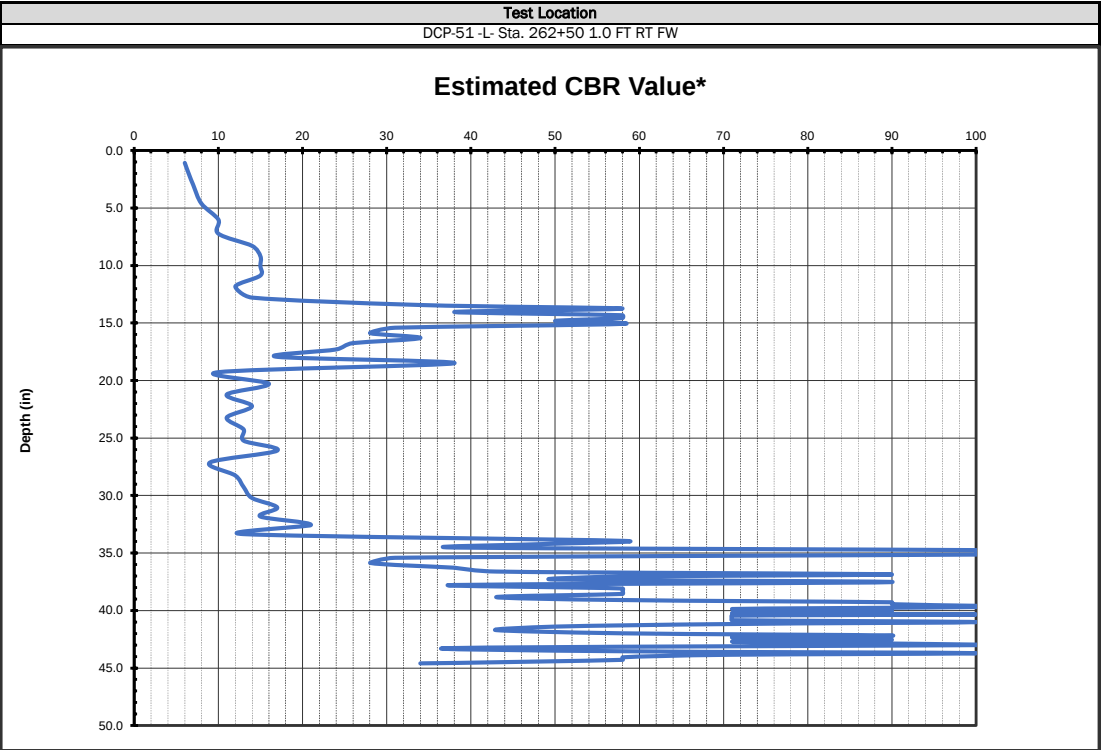
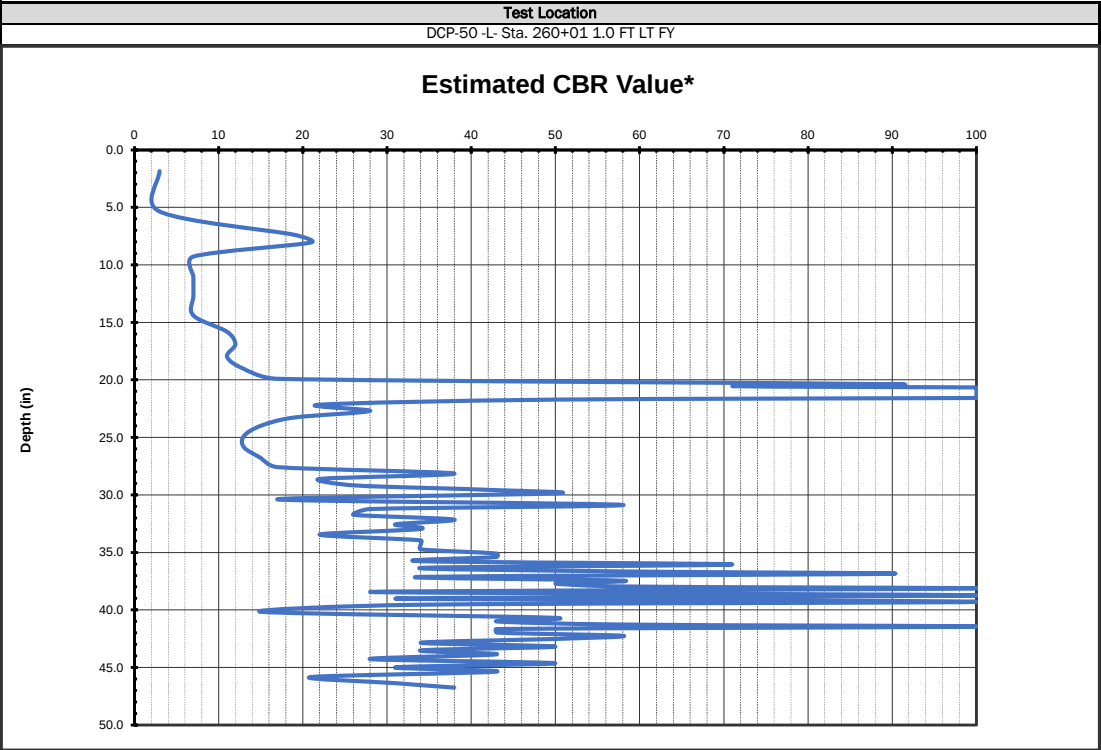


ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

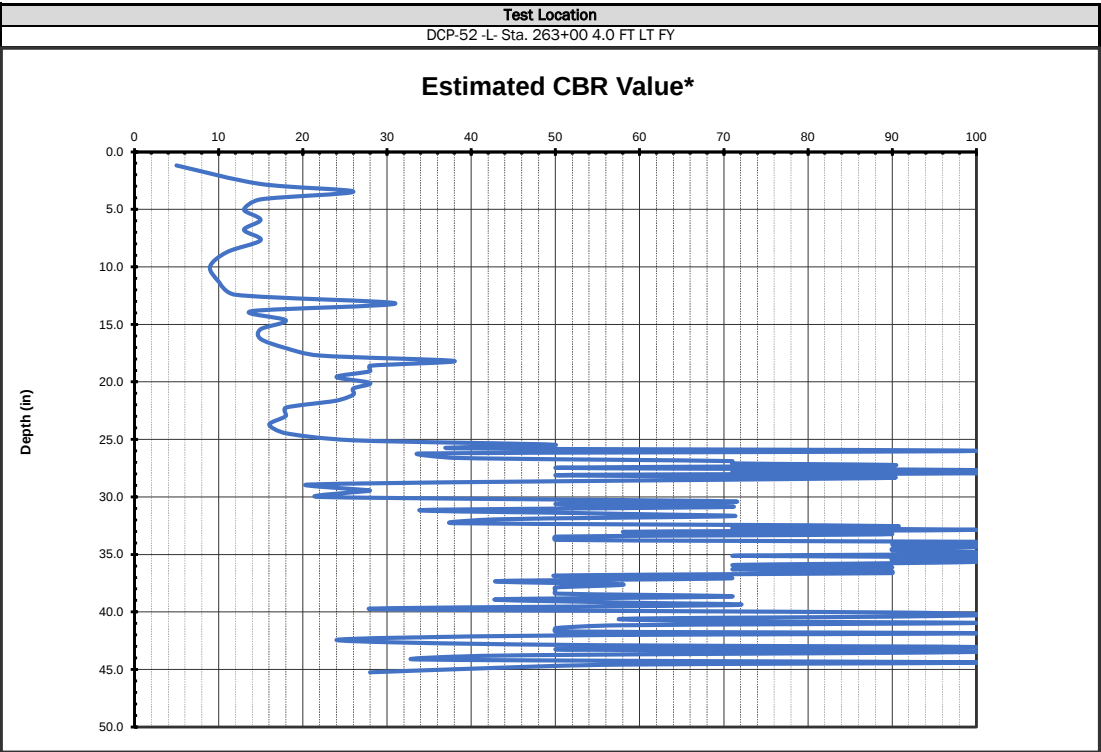
DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET						WBS NO.		PROJECT TIP I.D.				ROUTE			
						48470.1.1		R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
						COUNTY		FIELD PROFESSIONAL				DRILLER/HELPER			
						Haywood		T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test 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	
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							



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

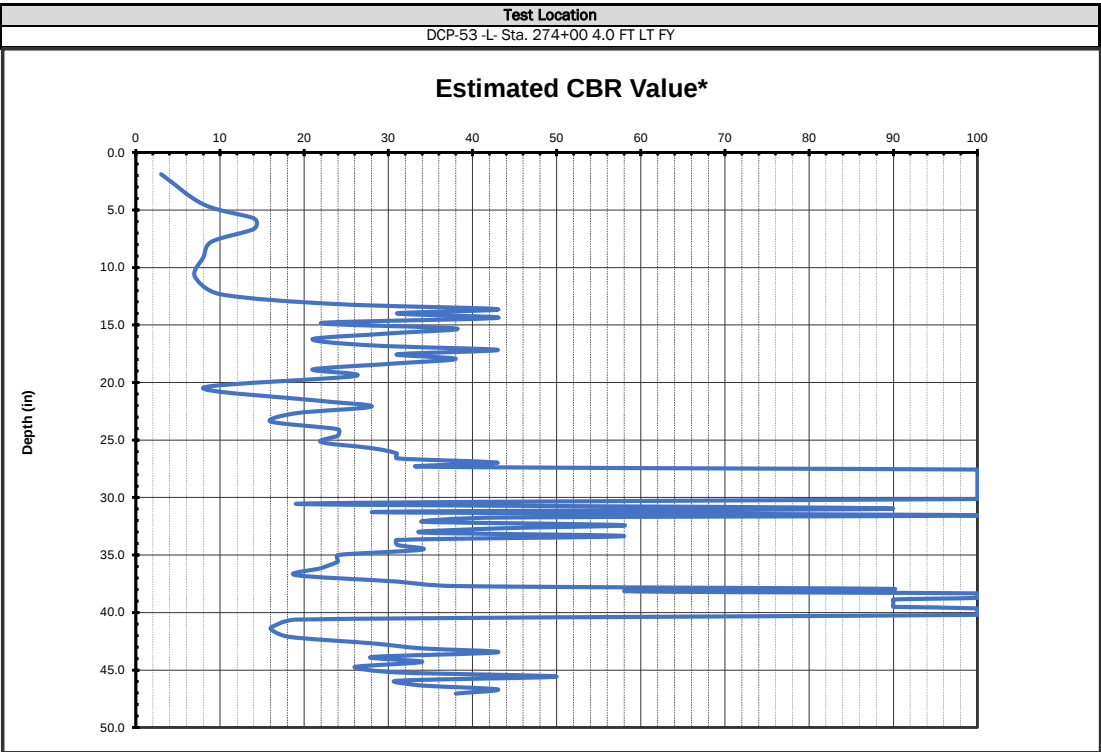


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



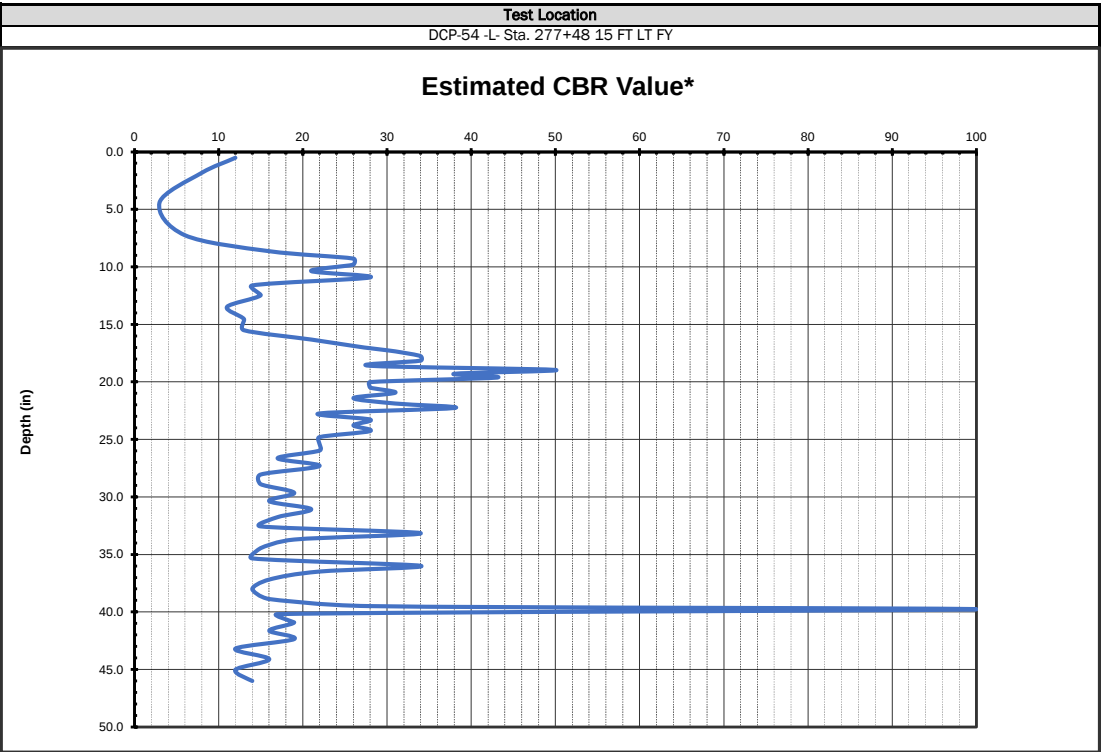
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

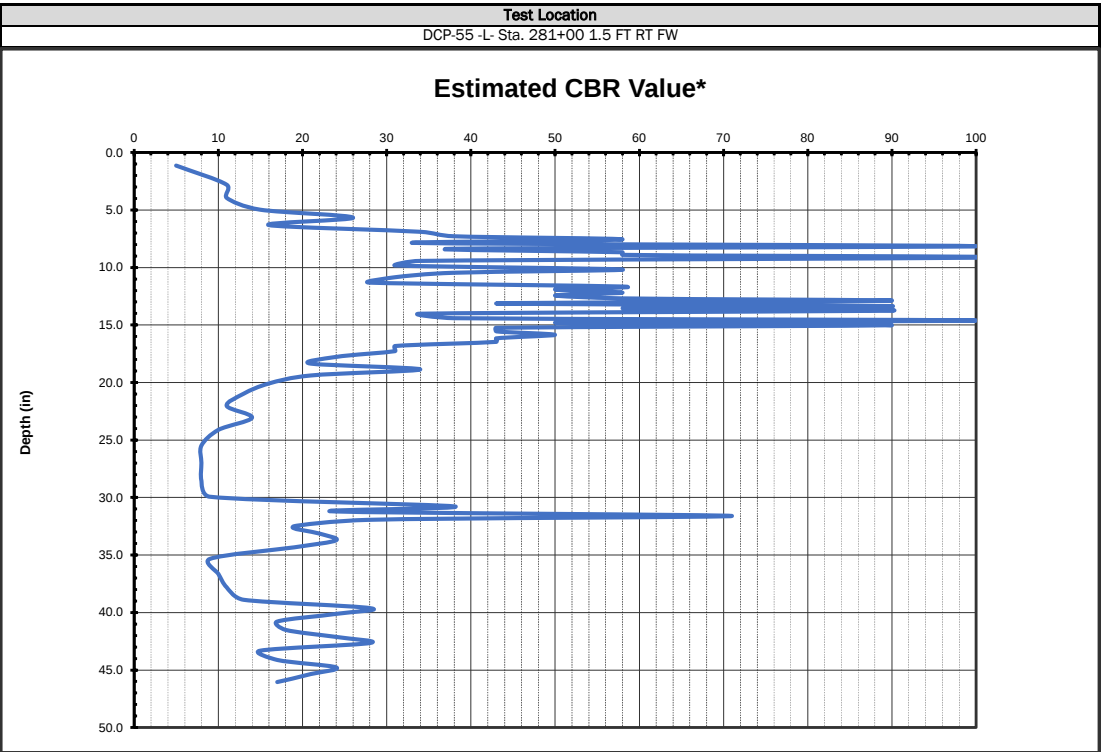


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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



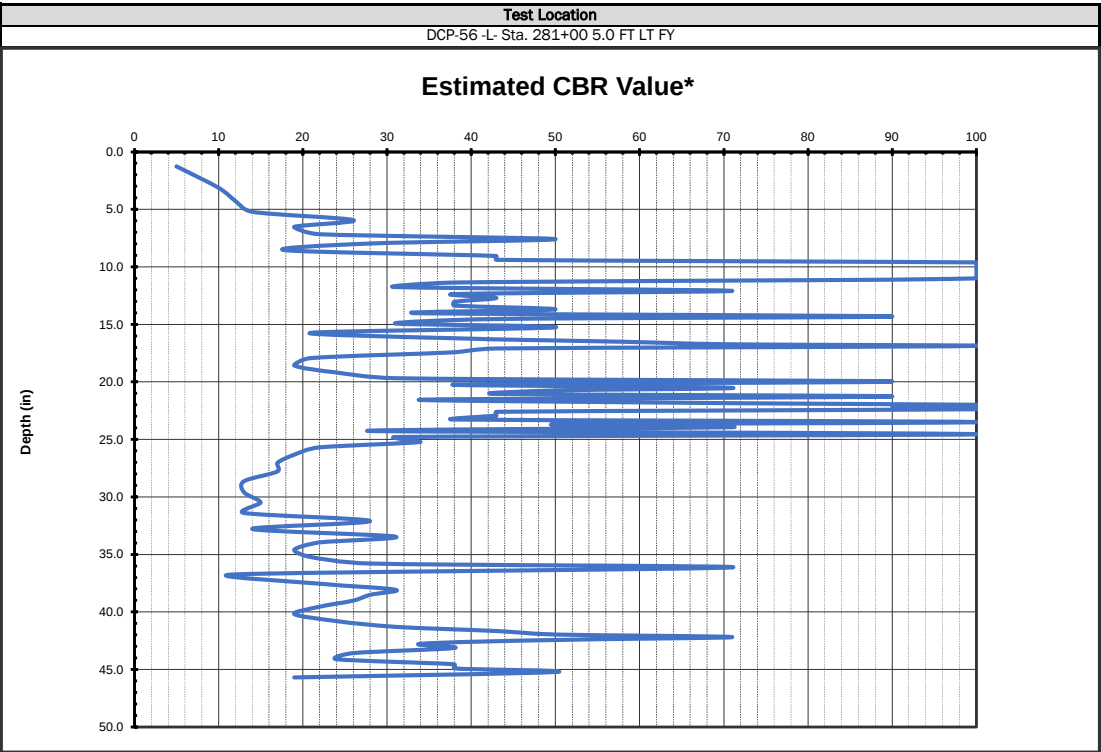
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

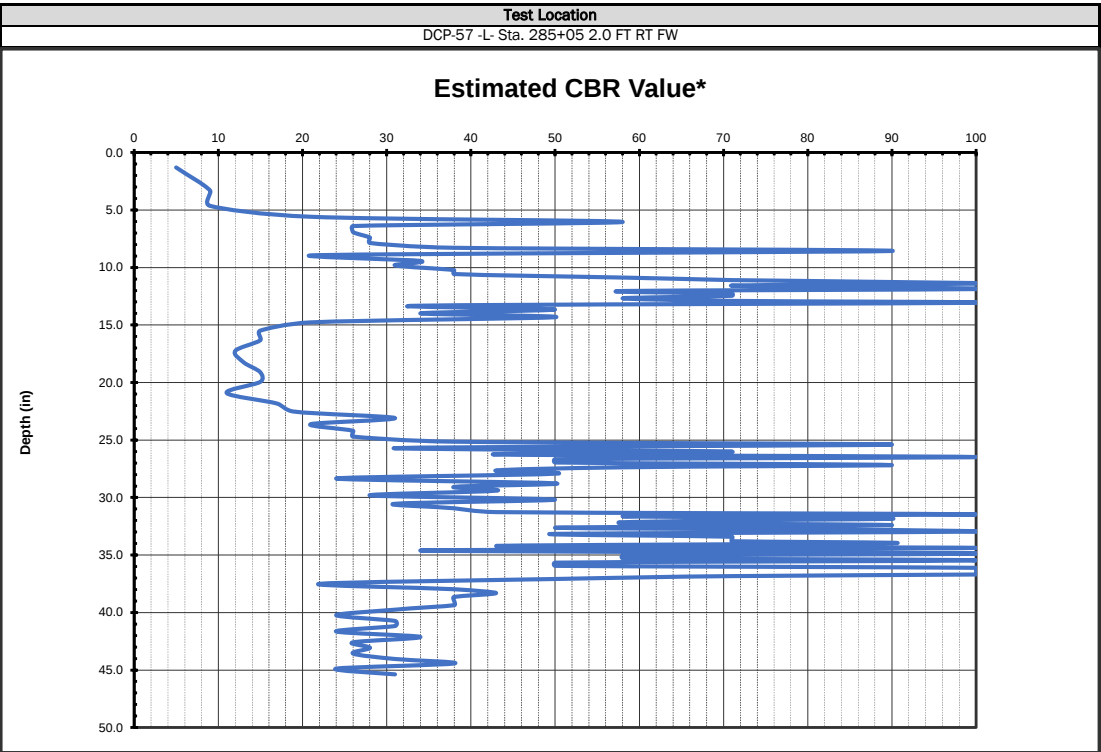


DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.				ROUTE			
				48470.1.1	R-5921				US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40			
				COUNTY	FIELD PROFESSIONAL				DRILLER/HELPER			
				Haywood	T. Wenner, P.G.				M. Brewer, P. Tomasic			
Test Location				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

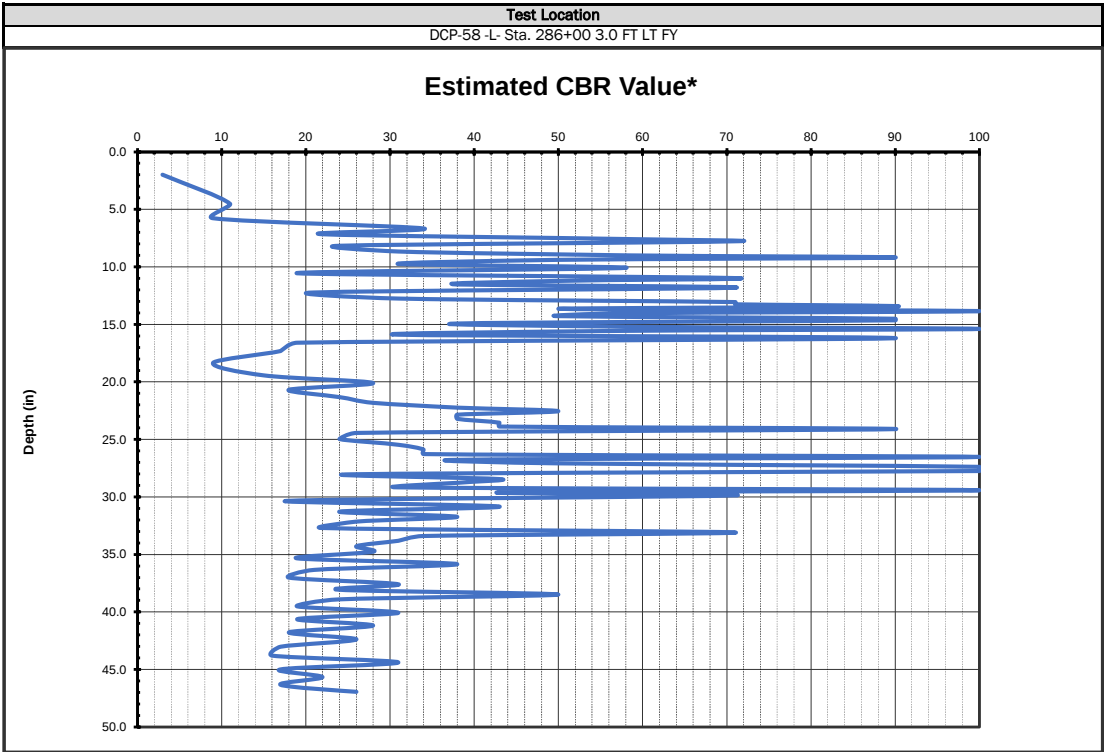


ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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			
Test Location						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													
69.10													
69.50													
69.60													
69.70													
69.80													
69.90													
70.00													
70.10													



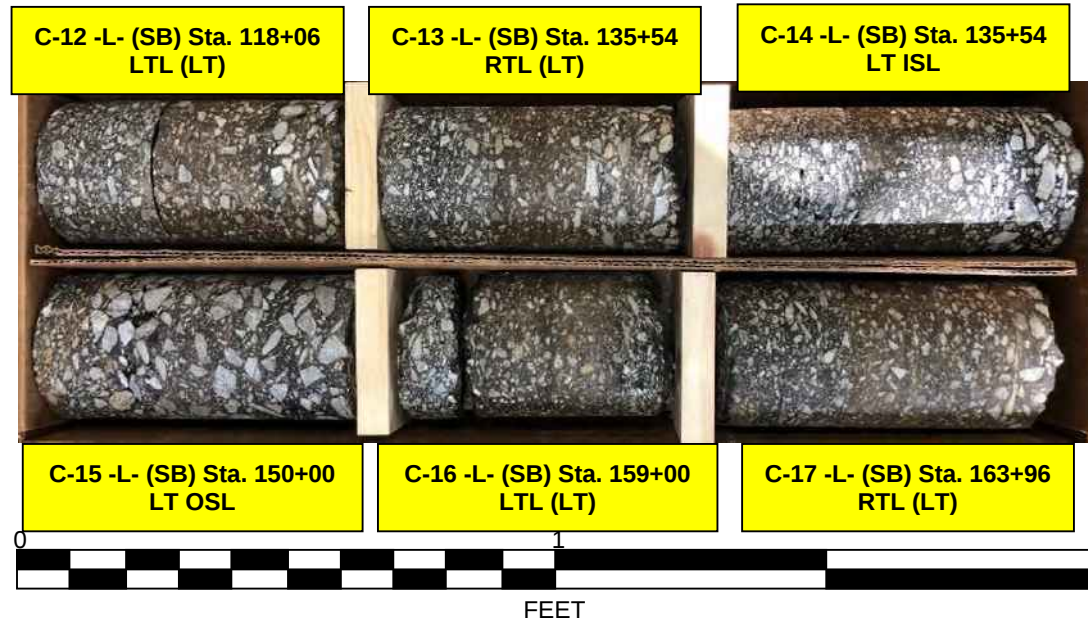
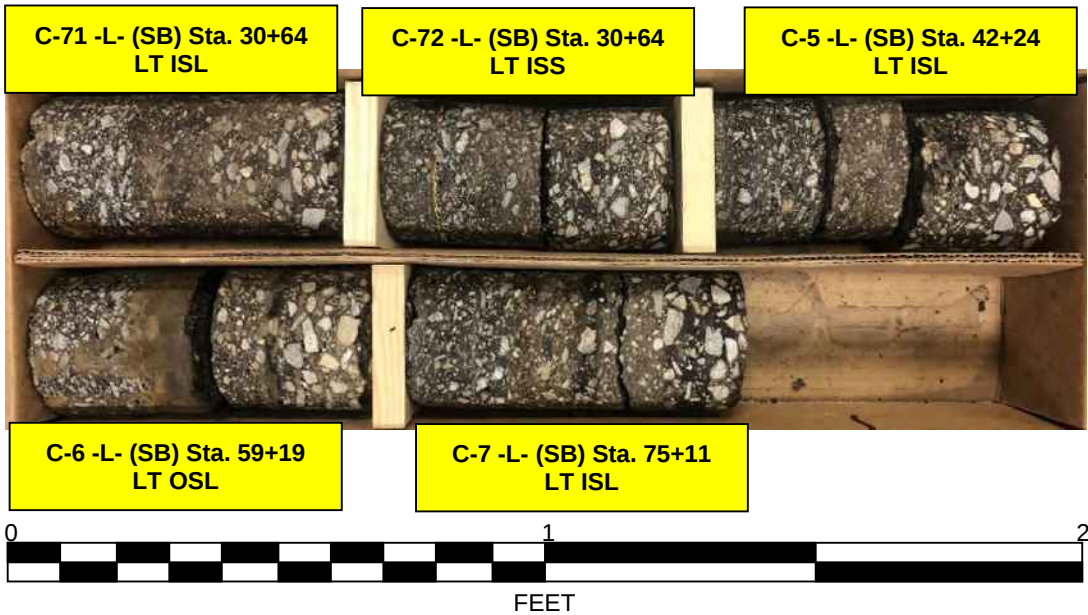
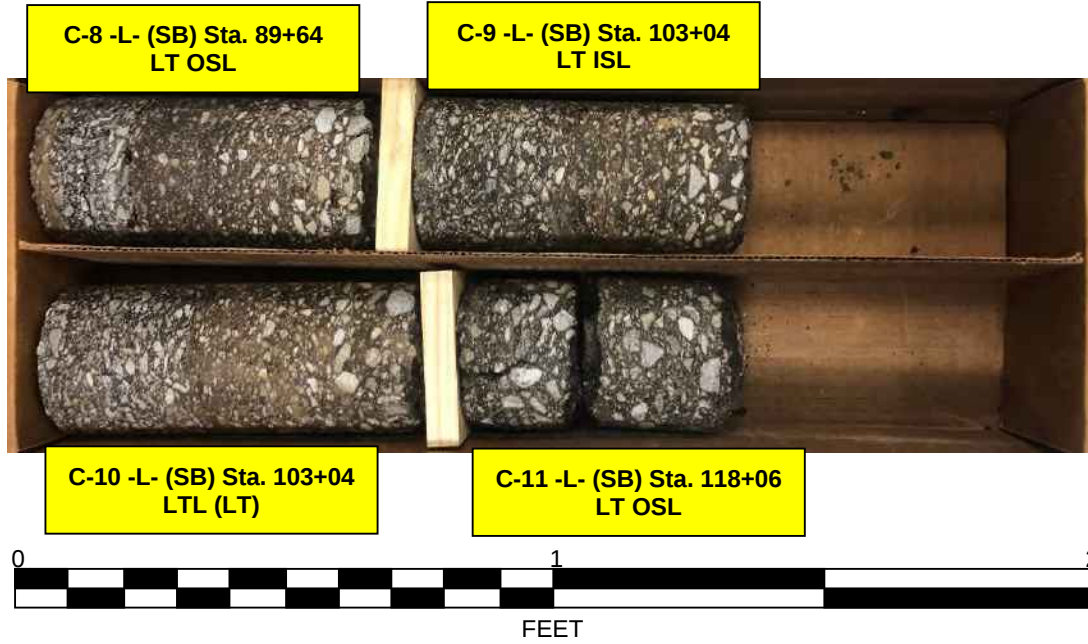
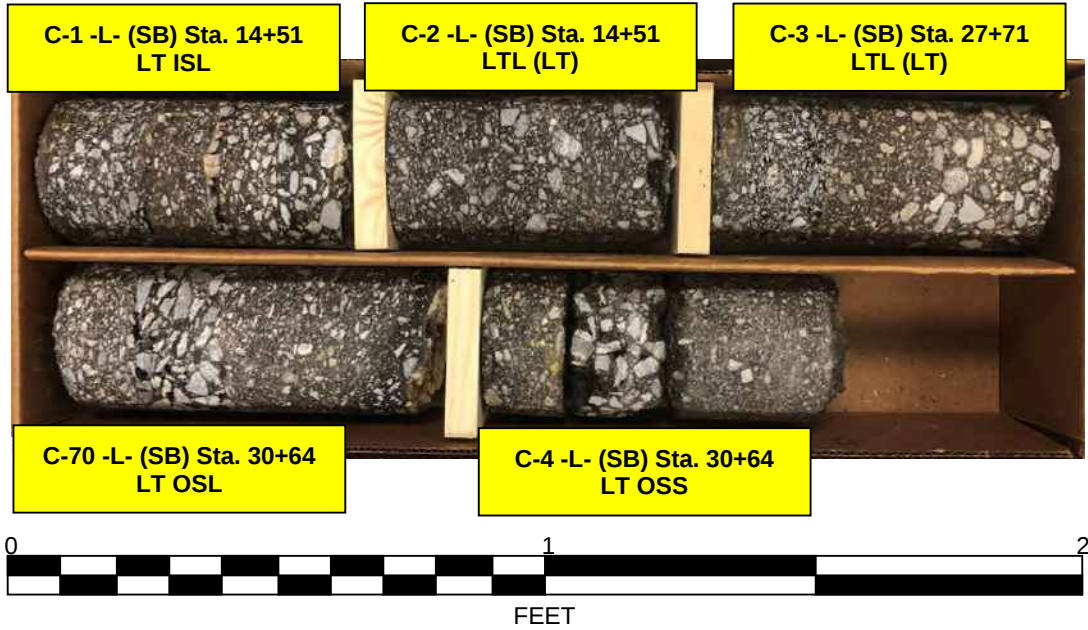
ABC	
ABC Thickness (in)	
Average CBR	
Weighted CBR Average	
Maximum CBR Value	
Minimum CBR Value	

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)

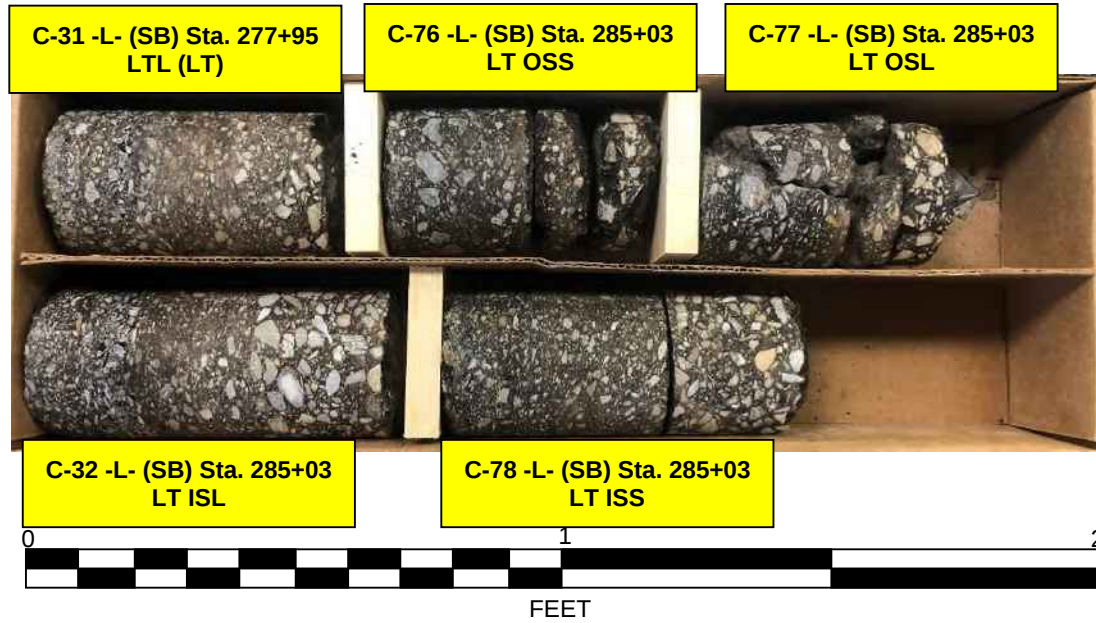
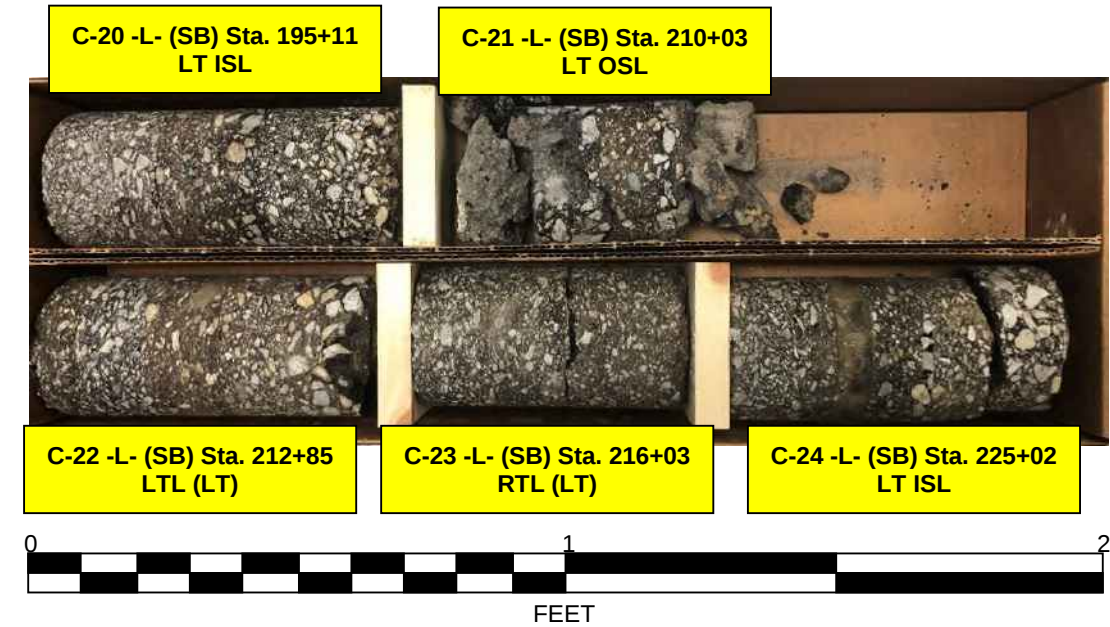
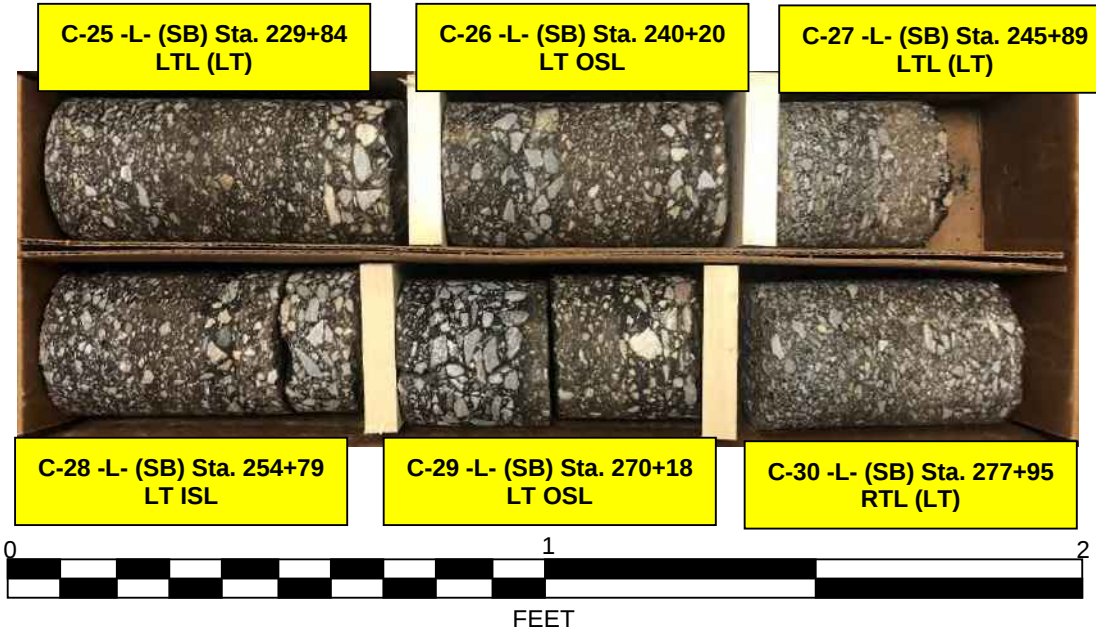
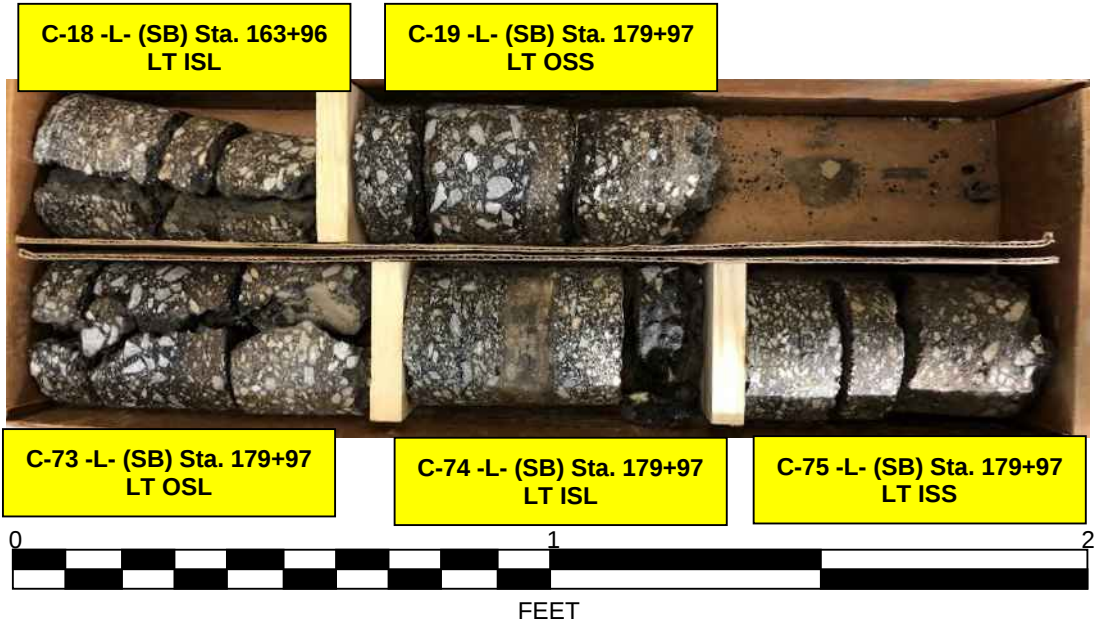
R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40

Pavement Core Photographs



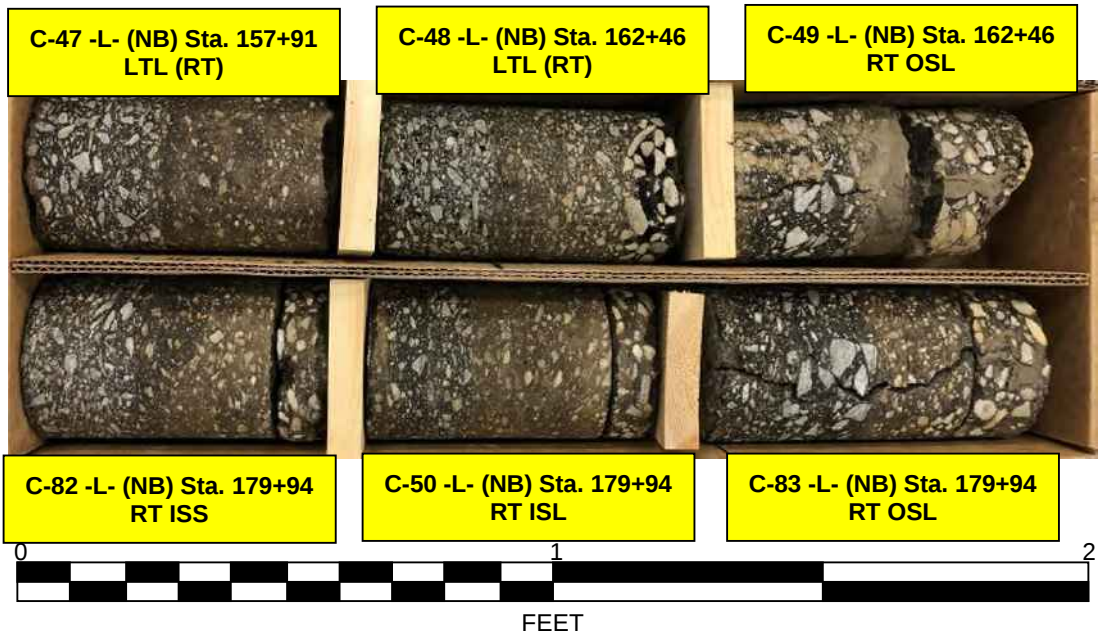
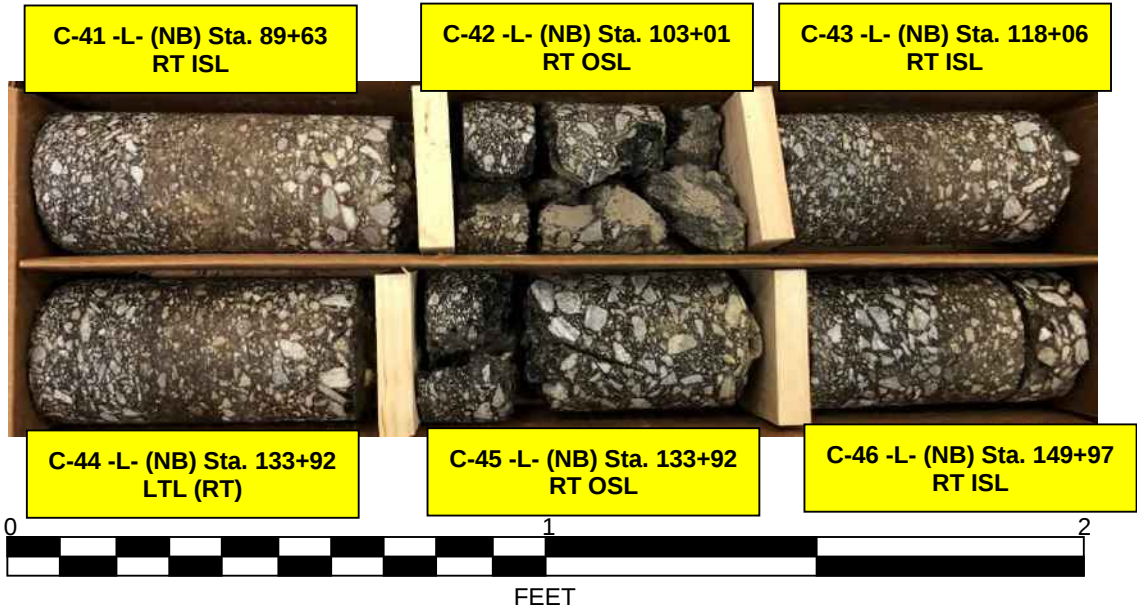
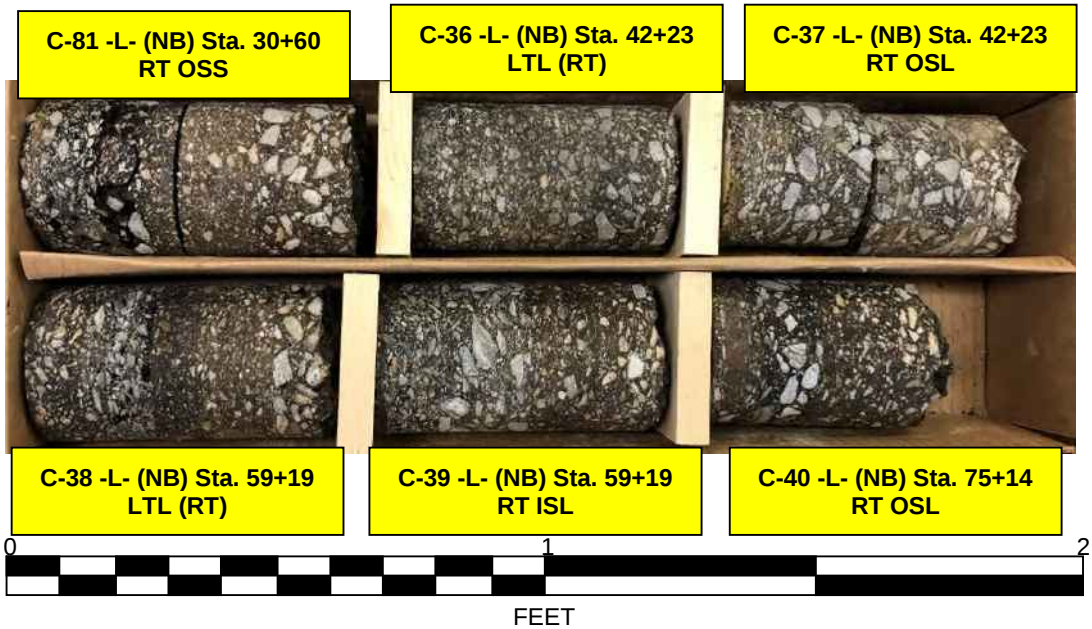
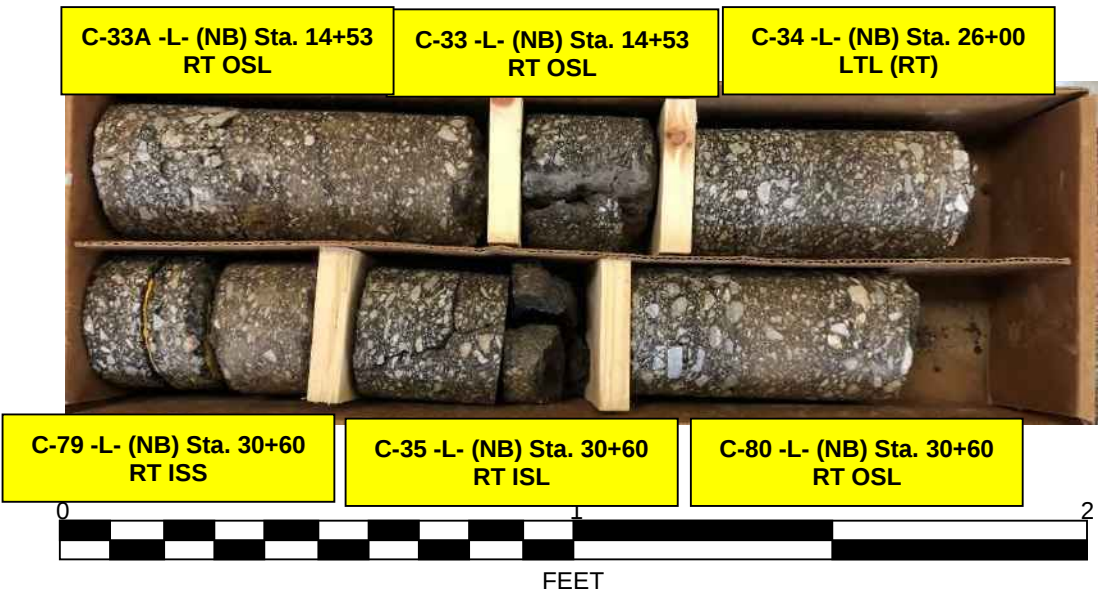
R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40

Pavement Core Photographs



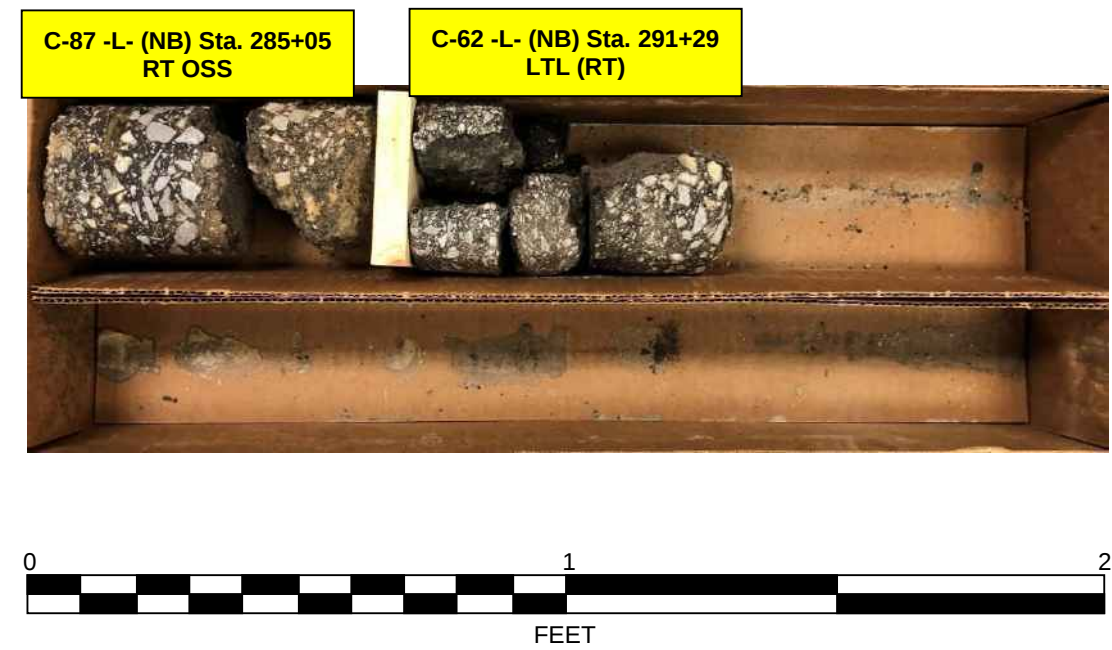
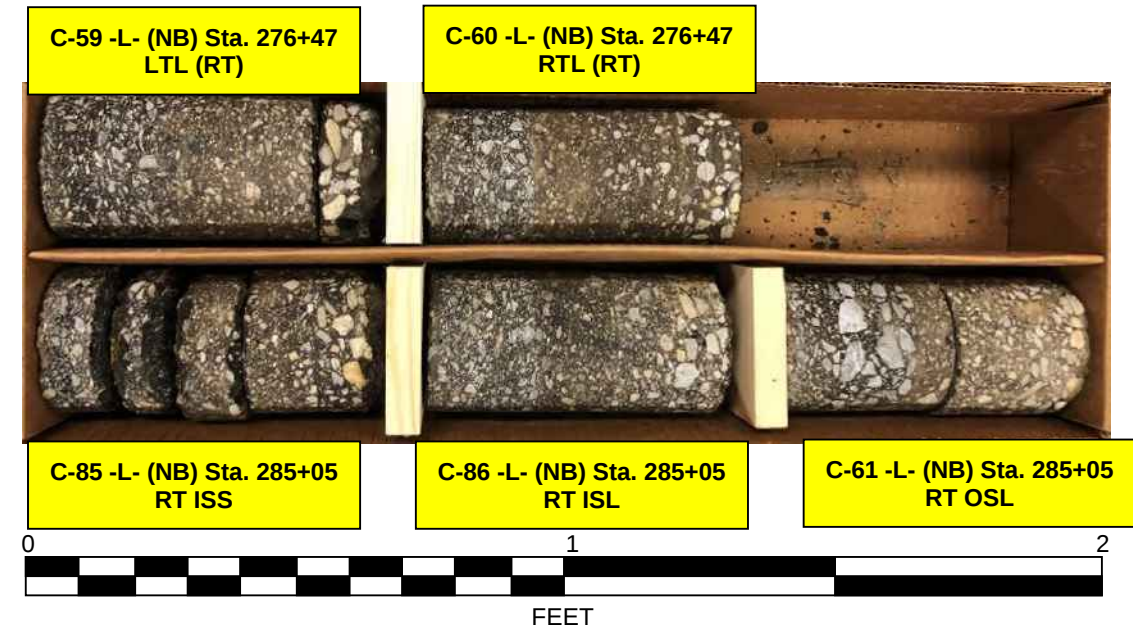
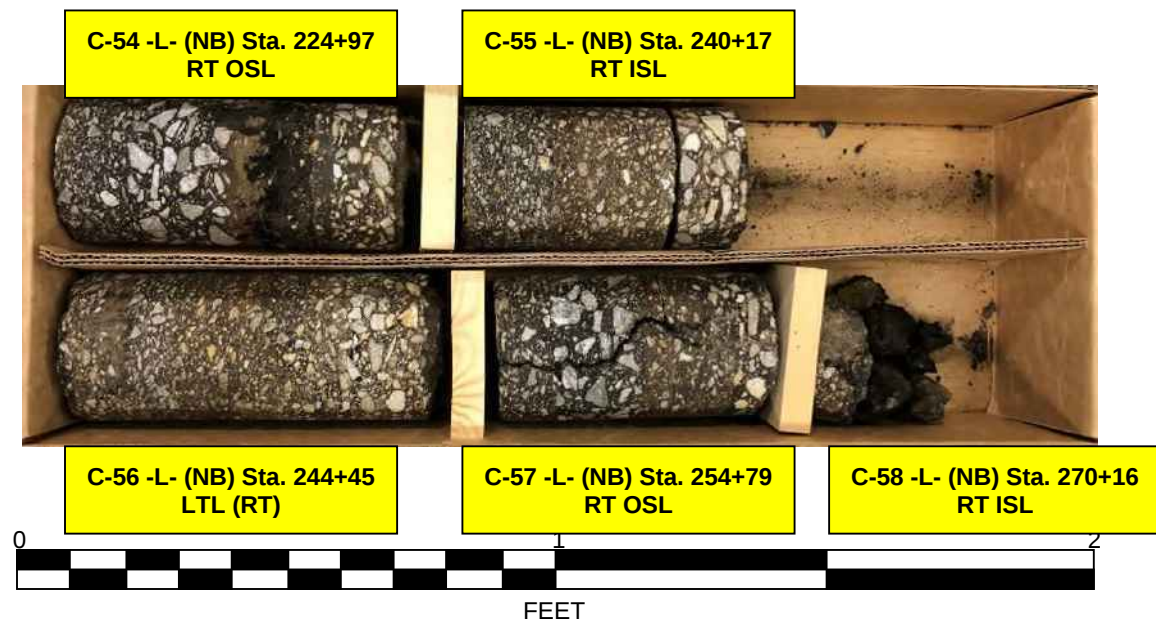
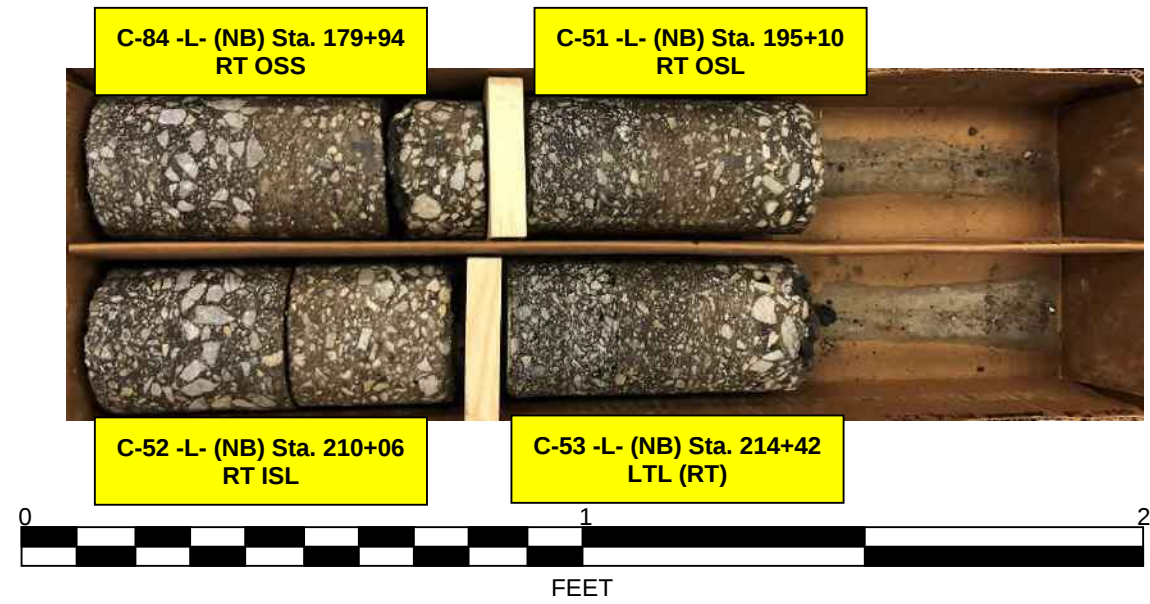
R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40

Pavement Core Photographs



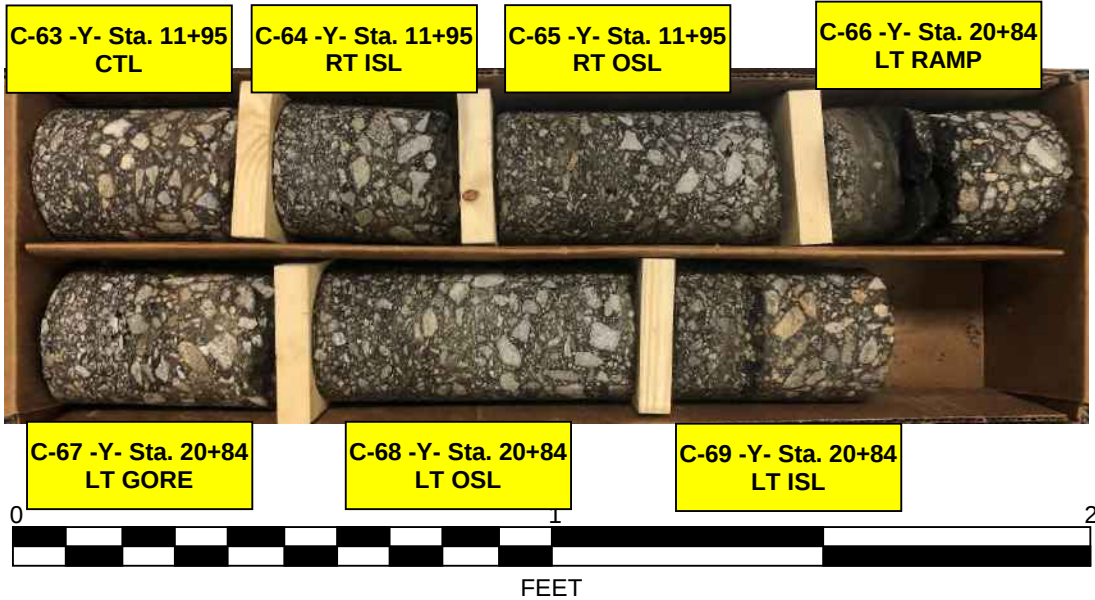
R-5921: US 276 (Jonathan Creek Rd) from US 19 to 0.5 miles south of I-40

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)			%	%
									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

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)			%	%
									C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
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

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

US 276 (Jonathan Creek Rd) from
ProjectUS 19 to 0.5-miles South of I-40

T.I.P. No.R-5921

CountyHaywood

F&ME Job No.C8806 - Task 00023

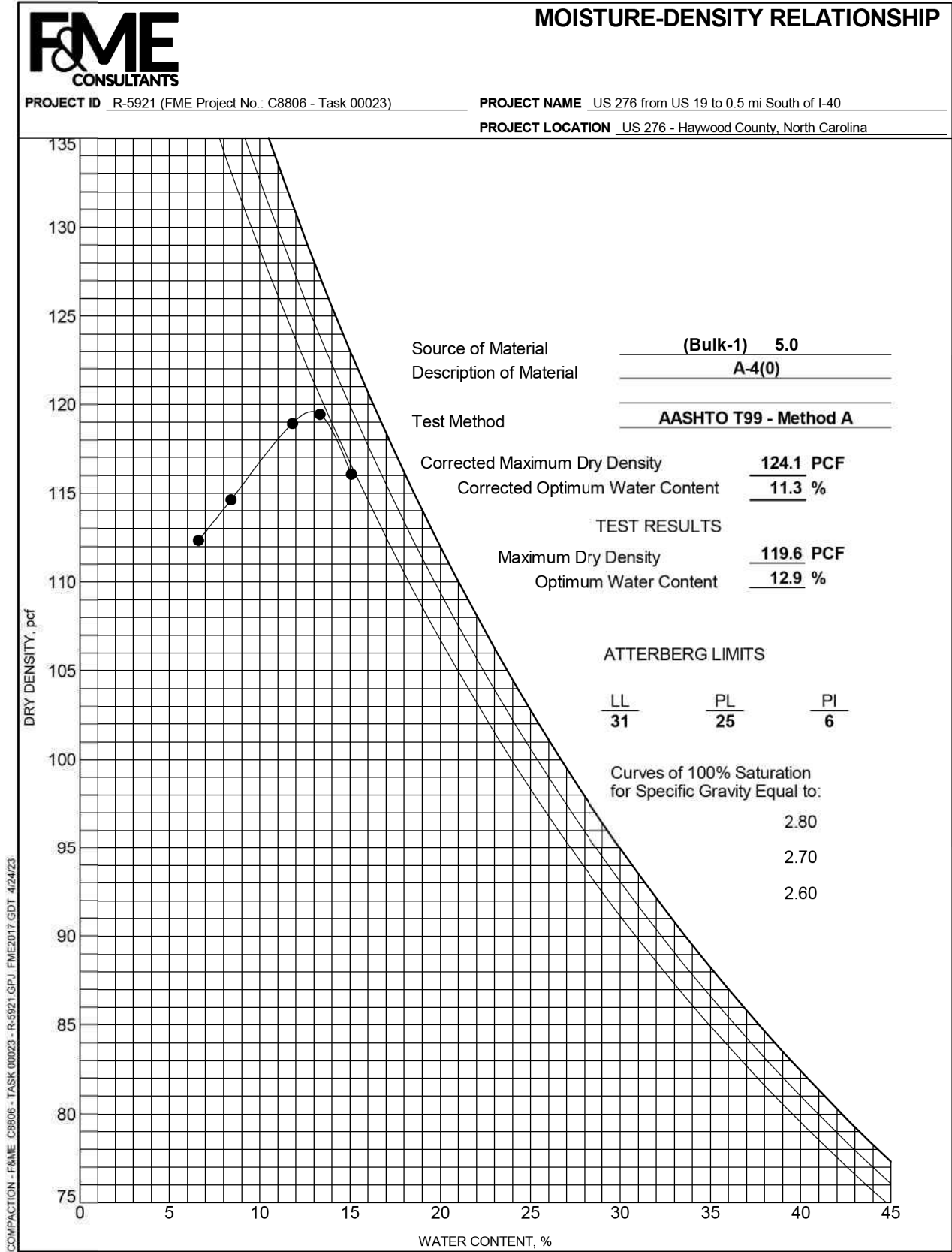
Date Received3/17/2023

Date Reported4/24/2023

Tested ByF&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	MOISTURE	ORGANIC
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



REV 01/2023

CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

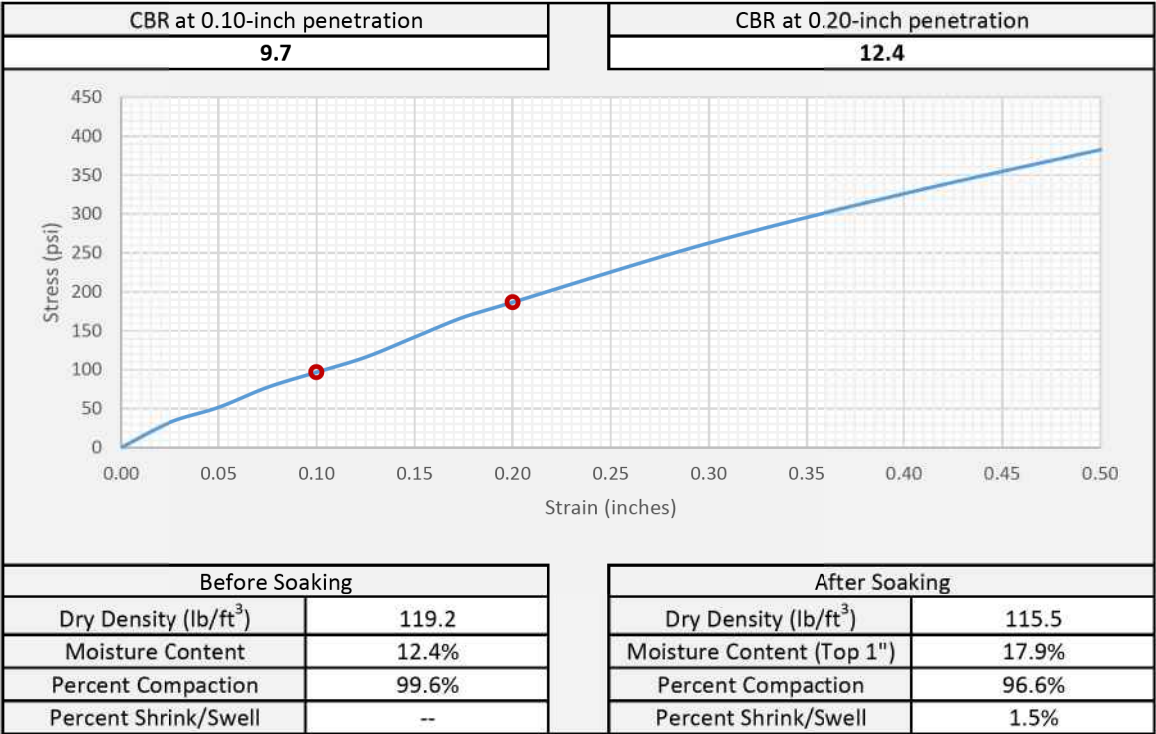
SAMPLE INFORMATION

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 ³)	119.6	Optimum Moisture Content (%)	12.9
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

Desired Percent Compaction = 100%



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Jerry P. Davis

Reviewed By

4/25/23
Date

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CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

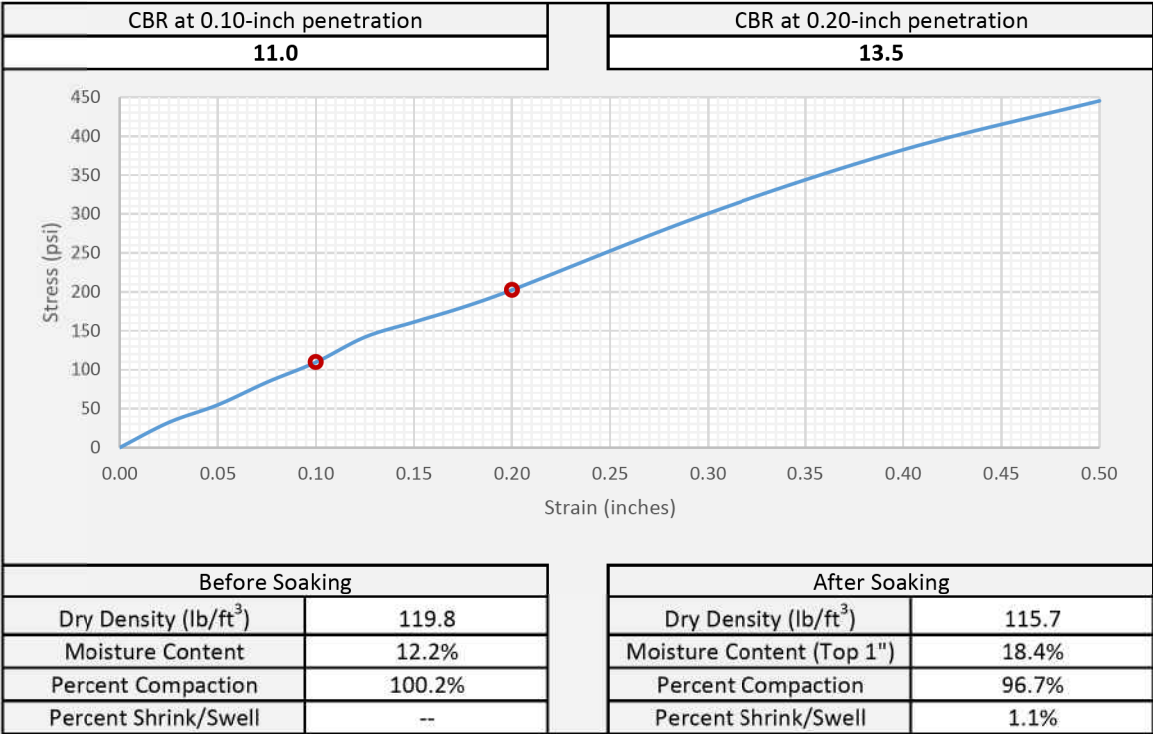
SAMPLE INFORMATION

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 ³)	119.6	Optimum Moisture Content (%)	12.9
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

Desired Percent Compaction = 100%



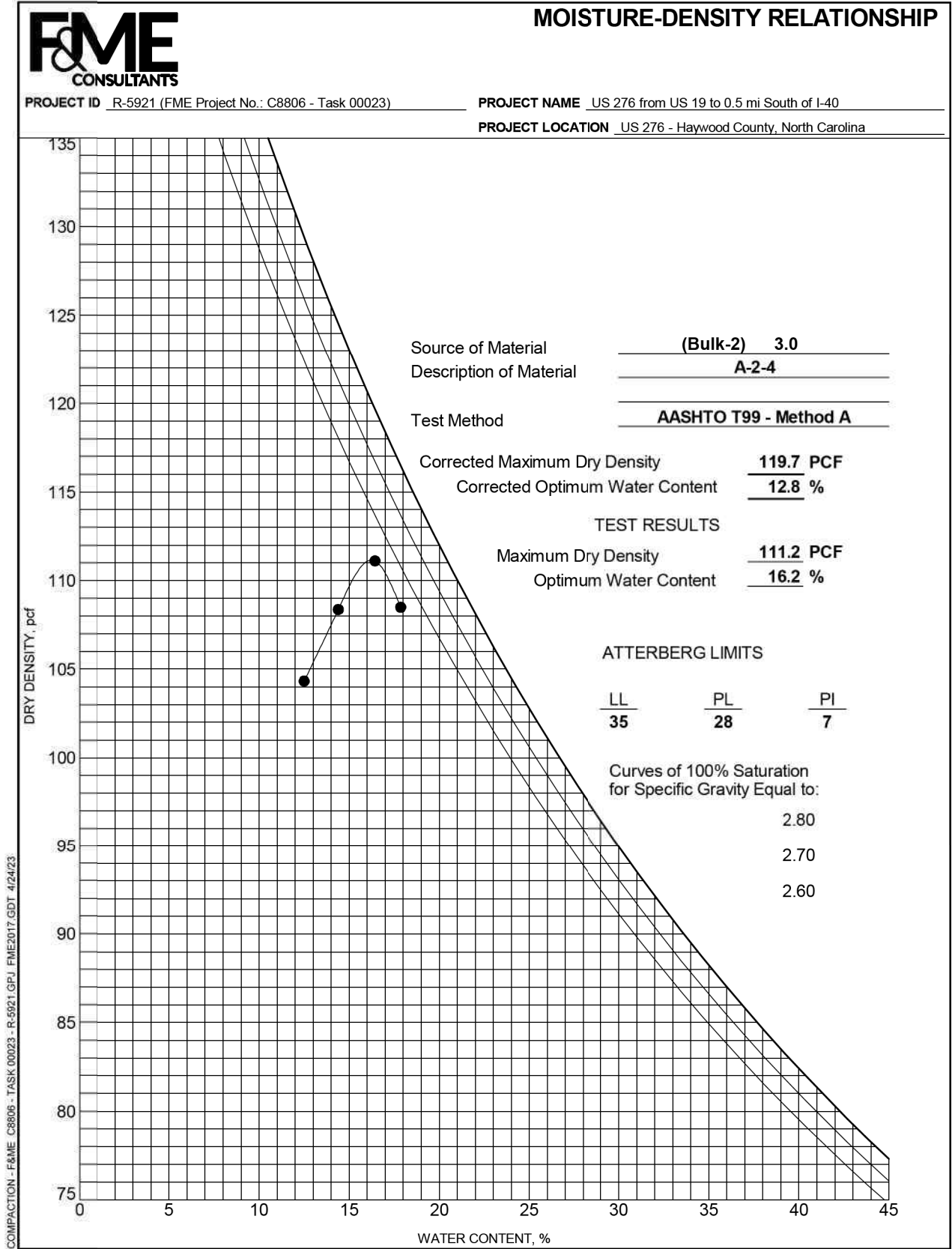
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AASHTO T193

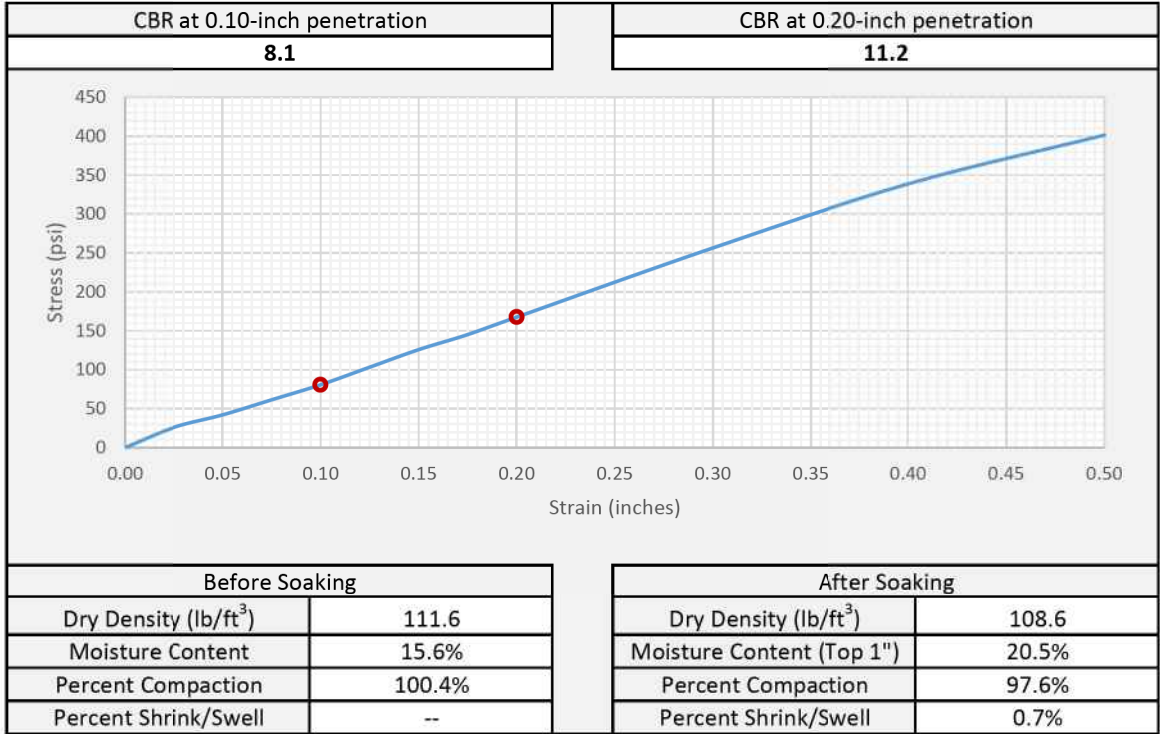
SAMPLE INFORMATION

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 ³)	111.2	Optimum Moisture Content (%)	16.2
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

Desired Percent Compaction = 100%



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AASHTO T193

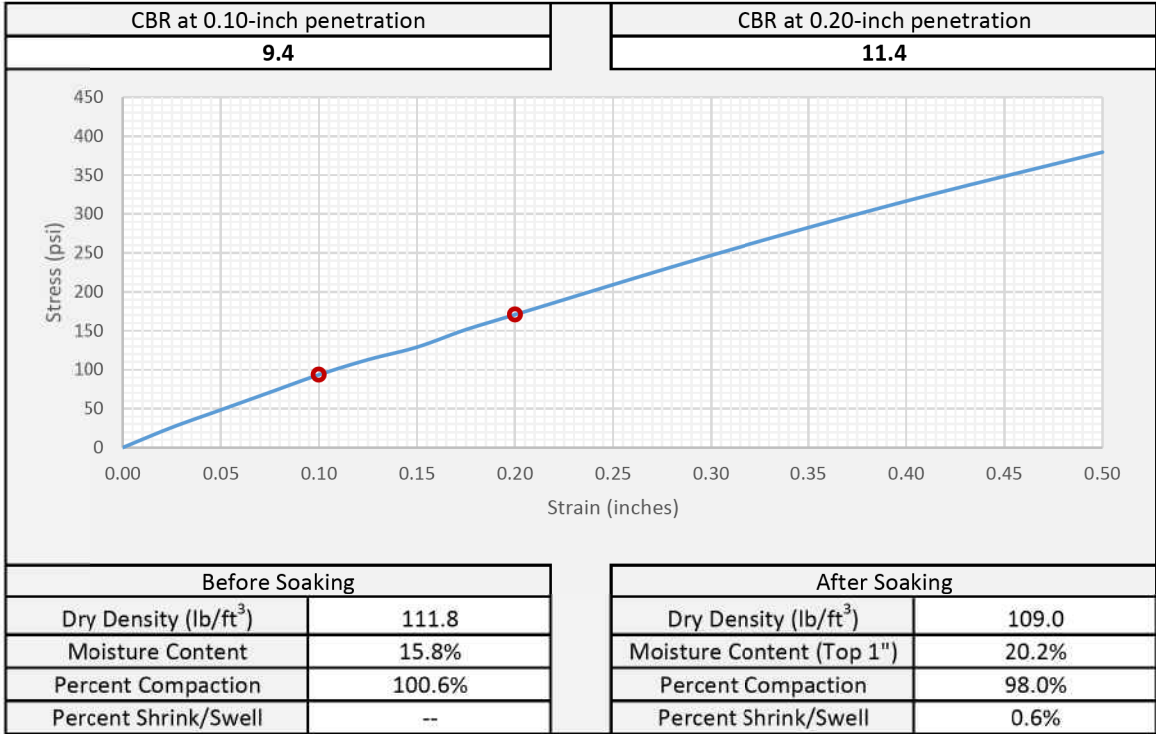
SAMPLE INFORMATION

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 ³)	111.2	Optimum Moisture Content (%)	16.2
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

Desired Percent Compaction = 100%



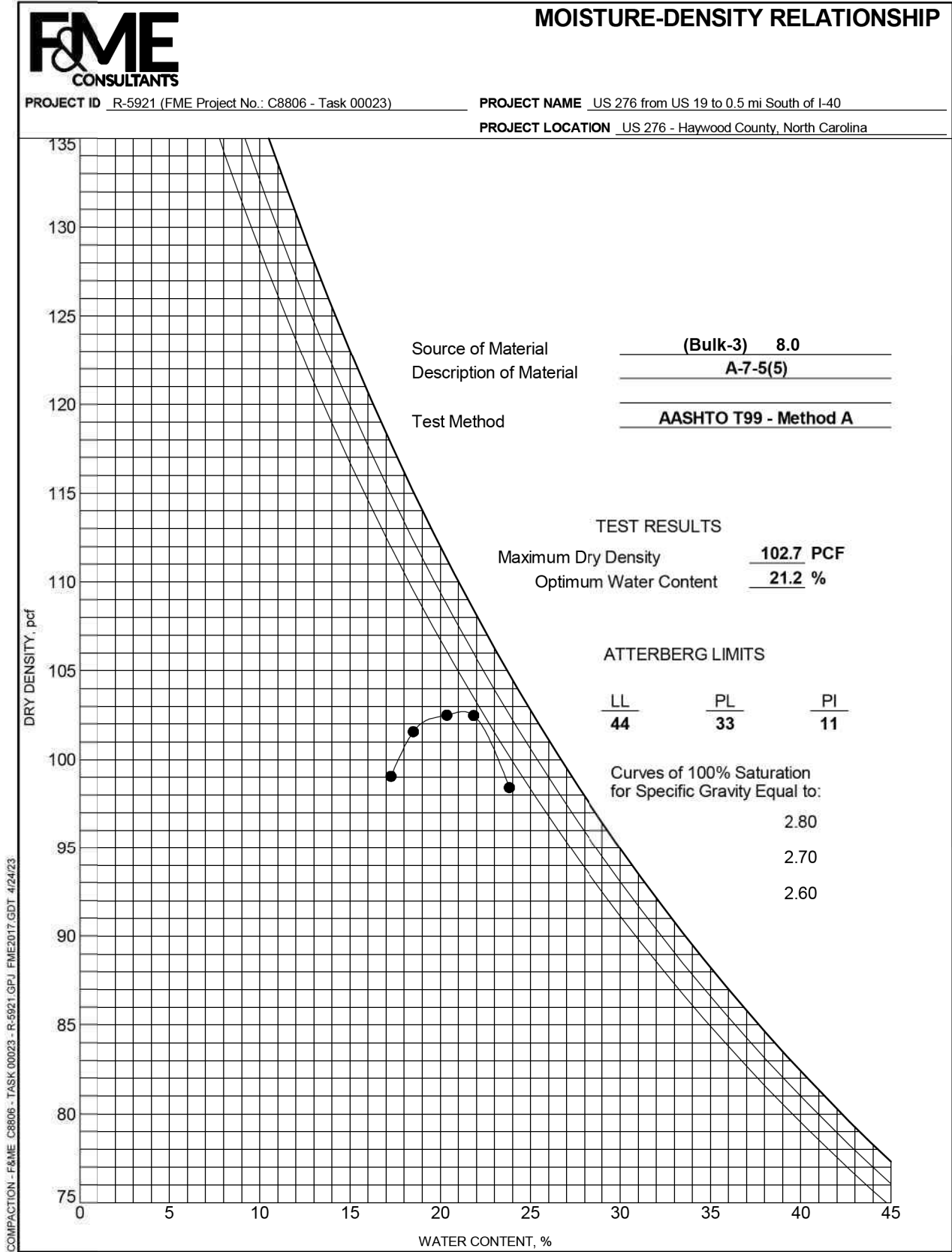
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4/25/23
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AASHTO T193

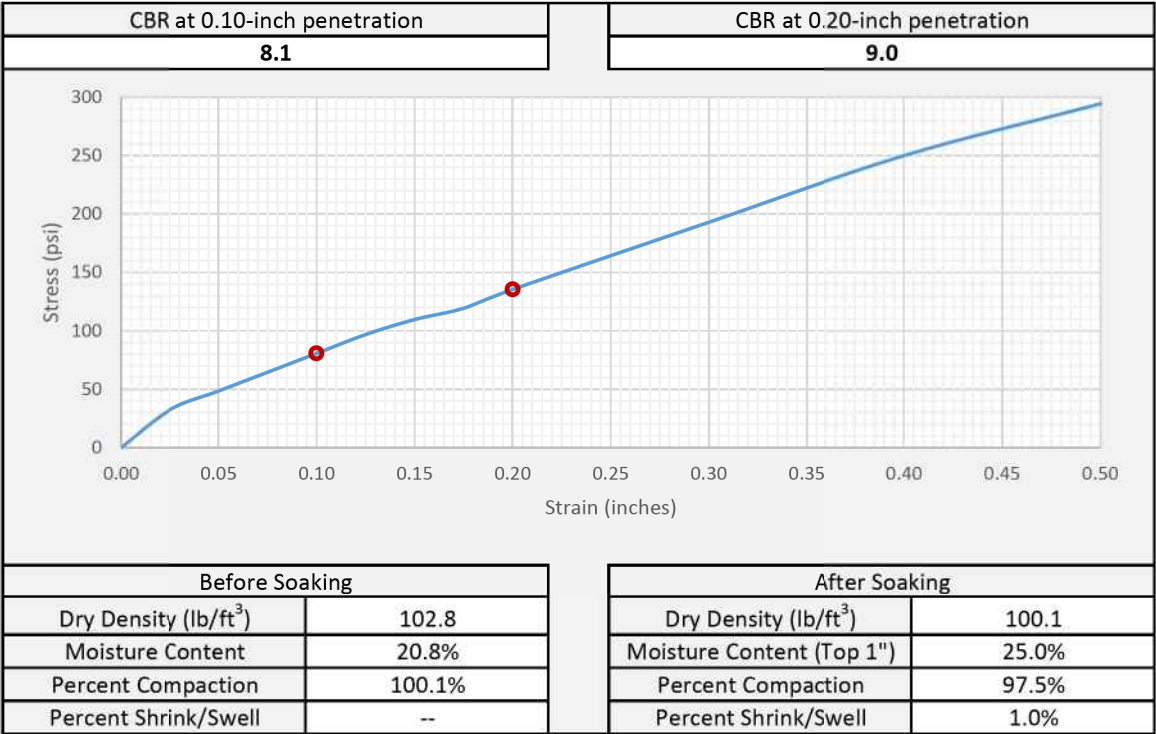
SAMPLE INFORMATION

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 ³)	102.7	Optimum Moisture Content (%)	21.2
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

Desired Percent Compaction = 100%



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211 Business Park Blvd., Columbia, SC 29203

Jerry P. Davis

Reviewed By

4/25/23

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CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

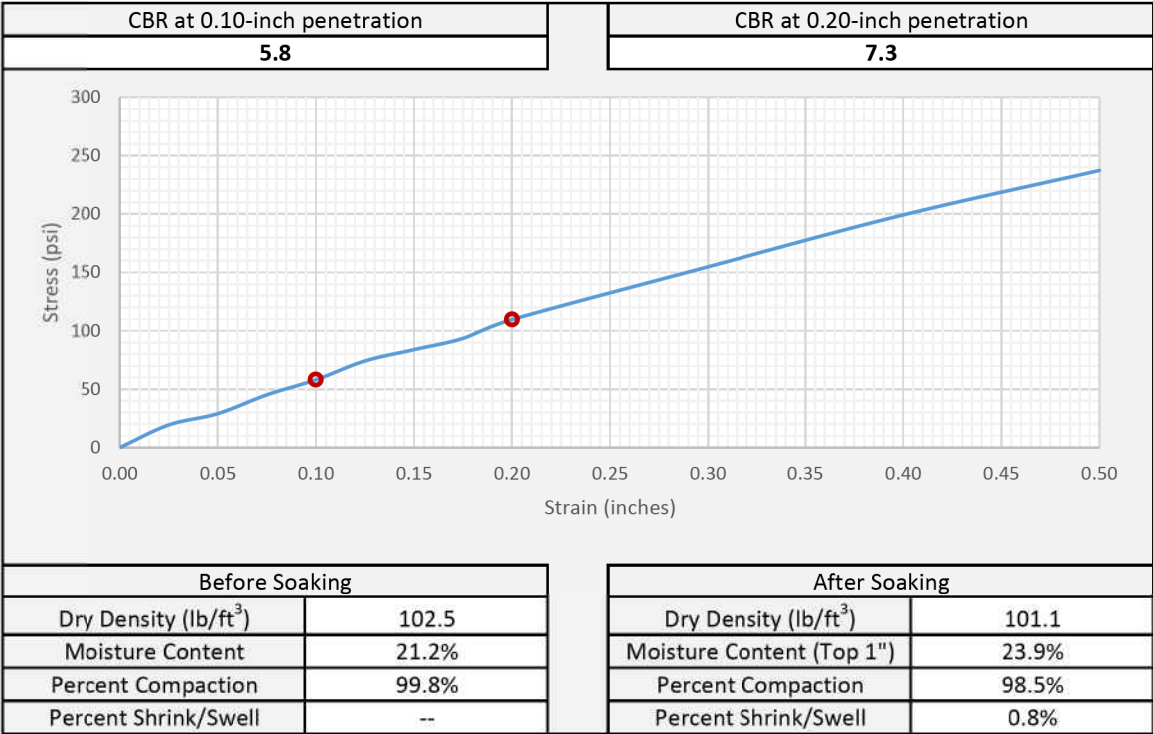
SAMPLE INFORMATION

Project Name	R-5921 (US 276)		Project No.	C8806 - Task 00023	
Sample Location	Bulk-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 ³)	102.7	Optimum Moisture Content (%)	21.2
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

Desired Percent Compaction = 100%



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211 Business Park Blvd., Columbia, SC 29203

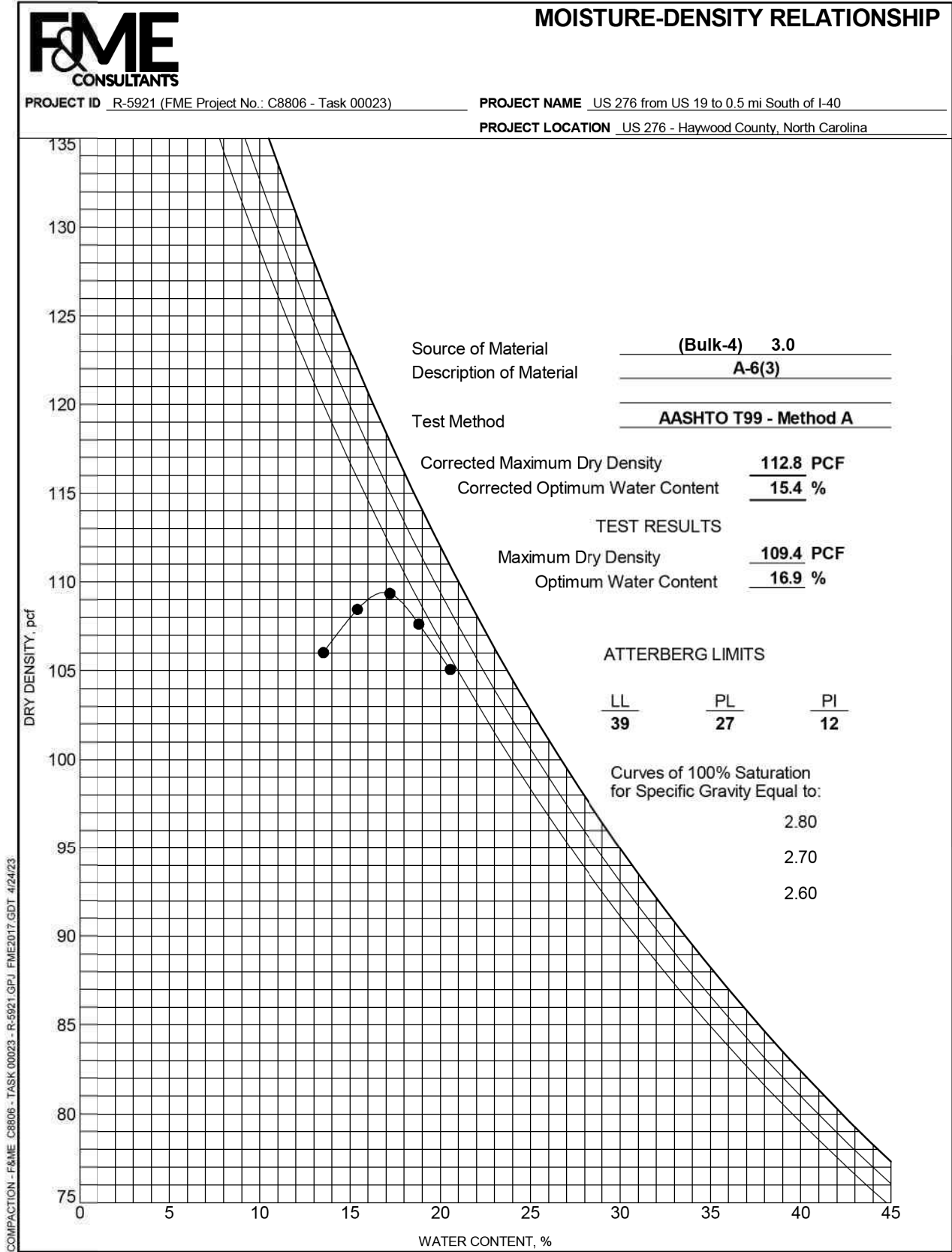
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4/25/23

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AASHTO T193

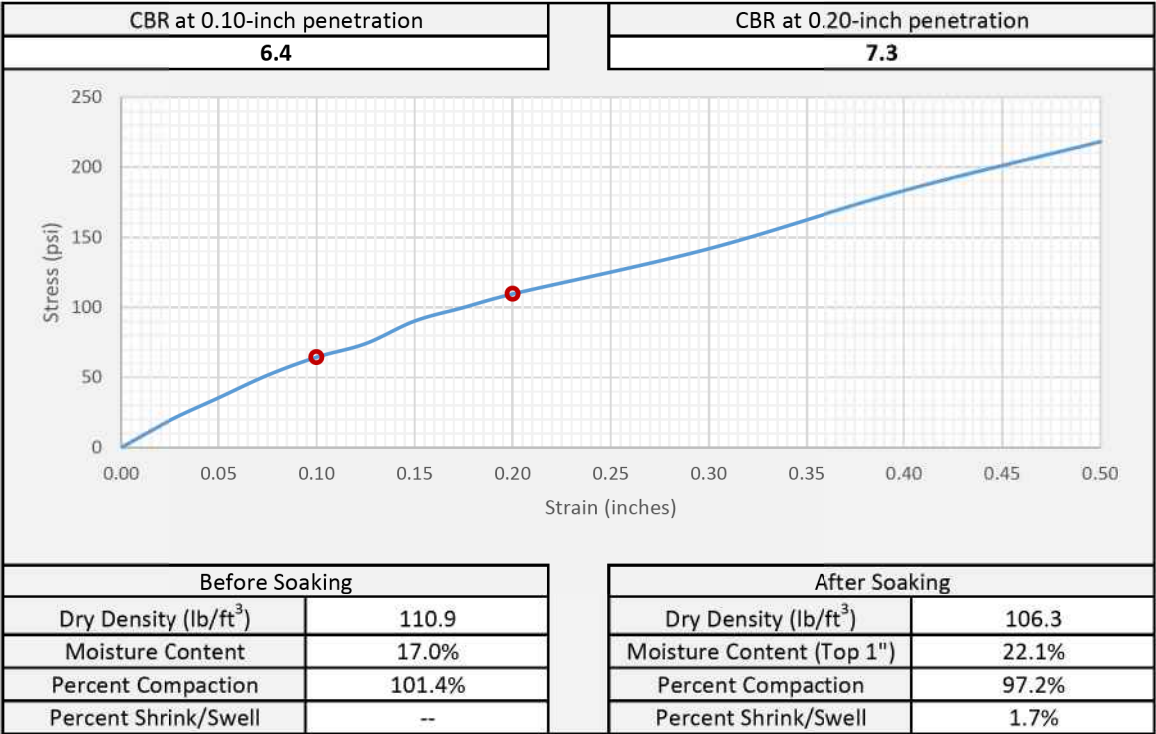
SAMPLE INFORMATION

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 ³)	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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4/24/23

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CALIFORNIA BEARING RATIO (CBR)
AASHTO T193

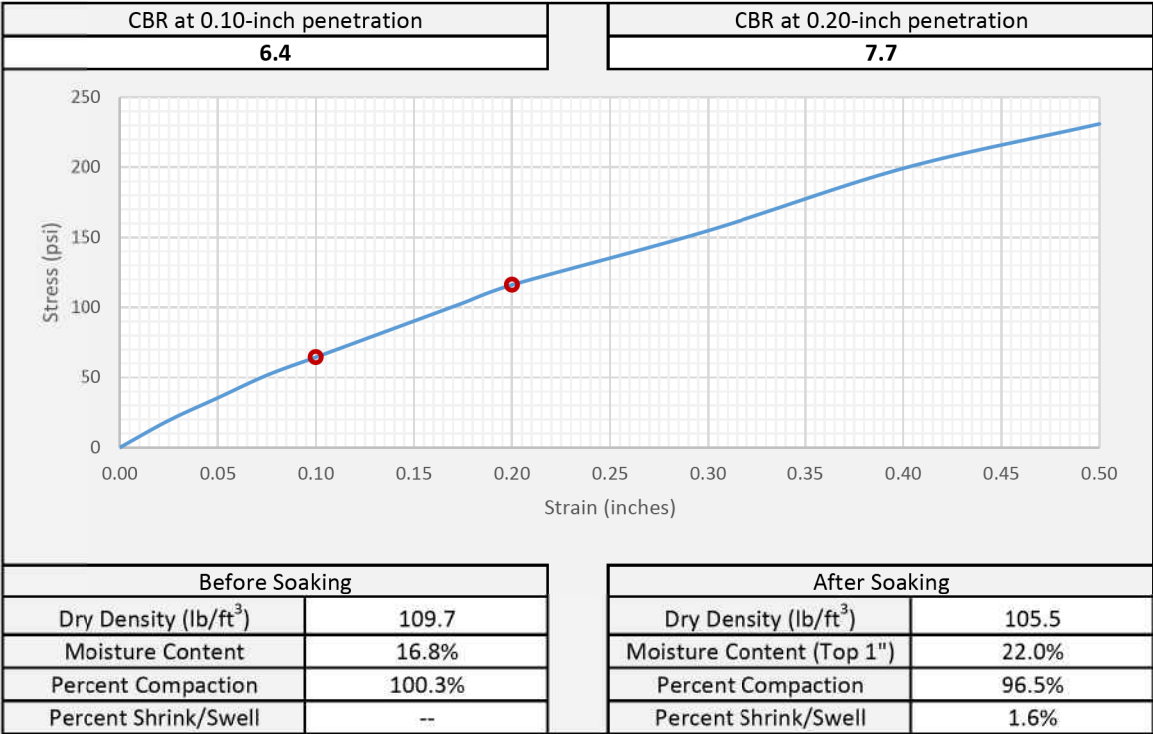
SAMPLE INFORMATION

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 ³)	109.4	Optimum Moisture Content (%)	16.9
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

4/24/23

Date

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