



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

January 21, 2022

MEMORANDUM TO: Clark Morrison PhD, P.E.
State Pavement Design Engineer

Tatia L. White, P.E., PLS
State Roadway Design Engineer

FROM: J. L. Pilipchuk, P.E., L.G.
State Geotechnical Engineer

STATE PROJECT: 34165.1.6 (I-2513AA)

COUNTY: Buncombe

DESCRIPTION: I-26 from I-40 to SR 3548 (Haywood Rd.)

SUBJECT: Pavement and Subgrade Investigation Report

DocuSigned by:
John Pilipchuk
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The Geotechnical Engineering Unit has completed the evaluation of the pavement and subgrade investigation for this project and presents the following.

The existing concrete on the project has evidence of the Alkali-Silica Reaction (ASR). The proposal is to remove the existing unbonded concrete overlay and the original concrete pavement structure down to the underling asphalt layer. A new concrete pavement will be constructed in-place over the asphalt layer. Widening of a shoulder or lane and shoulder will be constructed adjacent to the existing lanes. Inside median work is restricted to alignments -Y EB- and -Y WB-.

The subgrade beneath the existing roadway consists of residual and roadway embankment soils. Both residual and roadway soils are both predominantly sandy silt (A-4). Soils less frequently encountered are silty sand (A-2-4), sandy clay (A-6) and silty clay (A-7).

Anticipated borrow will likely consist of sandy silt (A-4) and silty sand (A-2-4).

The length of this project is 1.742 miles.

The existing pavement is in poor condition. The existing unbonded concrete overlay has the effects of the ASR and has deteriorated the concrete over time, resulting in numerous concrete patches and potholes present along the project. The asphalt shoulders are in good condition.

AREAS OF SPECIAL GEOTECHNICAL INTEREST

A. Highly Plastic Clays:

No clays with a PI of 26 or greater were sampled onsite.

B. Trapped Water within the Pavement:

No trapped water within the pavement was observed onsite.

C. Soils with a High Moisture Content:

LINE	STATION AND OFFSET	MOISTURE CONTENT
-Y_EB-	20+58 EB ISS	M-W
-Y_EB-	20+62 (Bulk-2)	M-W
-Y_WB-	10+698 WB OSS	M-W

(M) = Moist, (W) = Wet, (Sat). = Saturated

JLP/JBB

ATTACHMENT 1:	Pavement and Subgrade Inventory	108
ATTACHMENT 2:	DCP Graphs	42



Jeffrey Brian Barfield

DocuSigned by:
Jeffrey Brian Barfield 01/21/2022
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REFERENCE: I-2513AA/AB

PROJECT: 34165.1.6

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-2513AA/AB	1	107

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ROADWAY
SUBSURFACE INVESTIGATION

COUNTY BUNCOMBE
PROJECT DESCRIPTION I-26 FROM I-40 TO SR 3548
(HAYWOOD ROAD)

PAVEMENT AND SUBGRADE INVESTIGATION

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

D. UNDERWOOD

C. ODOM

INVESTIGATED BY CG2

DRAWN BY M. BREWER, P.E.

CHECKED BY R. KRAL, P.E.

SUBMITTED BY CG2

DATE NOVEMBER 2021

Prepared in the Office of:

**CAROLINAS
GEOTECHNICAL
GROUP**
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 CHARLOTTE, NC 28227
 (980) 339-8684



DocuSigned by:
D. Matthew Brewer 01/21/2022
 386129C SIGNATURE DATE

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

Tip No. I-2513AA/AB | WBS No. 34165.1.6| Buncombe County

ABBREVIATIONS

RT LN = Right Lane

LT LN = Left Lane

OSL = Outside Lane

ISL = Inside Lane

OSML = Outside Mid-Lane

ISML = Inside Mid-Lane

PS = Paved Shoulder

LTL = Left Turn Lane

RTL = Right Turn Lane

MID = Middle Lane

ISWP = Inside Wheel Path

OSWP = Outside Wheel Path

PS = Paved Shoulder

FW = From White Line

FY = From Yellow Line

RT = Right

LT = Left

(I) = Inside

(O) = Outside

BOC = Back of Curb

C&G = Curb and Gutter

EOP = Edge of Pavement

CR = Crown

S = Super

C = Cut

F = Fill

DCP = Dynamic Cone Penetrometer

M = Moist

W = Wet

N/A = Not Observed

NSR = No Sample Recovered

S- = Soil Grab Sample

Ref- = Soil Reference Sample

SS- = Split Spoon Sample

RE = Roadway Embankment

F. = Fine

Cse. = Coarse

ABC = Aggregate Base Course

STBC = Soil Type Base Course

CSS = Chemical Stabilized Soil

SG = Subgrade

SAND = Drainage Sand (see pavement layering on PIDS)

I-2513AA/AB

3

THIS SHEET IS A PLACEHOLDER FOR THE ROADWAY TITLE SHEET WHEN AVAILABLE

-RPD- PC Sta. 12+40
BEARING BK = N 27°01'22"

-LI_WB- PT Sta. 49+22.10

-LI_WB- PC Sta. 48+64.44

-RPD- POT Sta. 10+00.00 =
-LI_WB- POT Sta. 48+15.00 (12' RT)



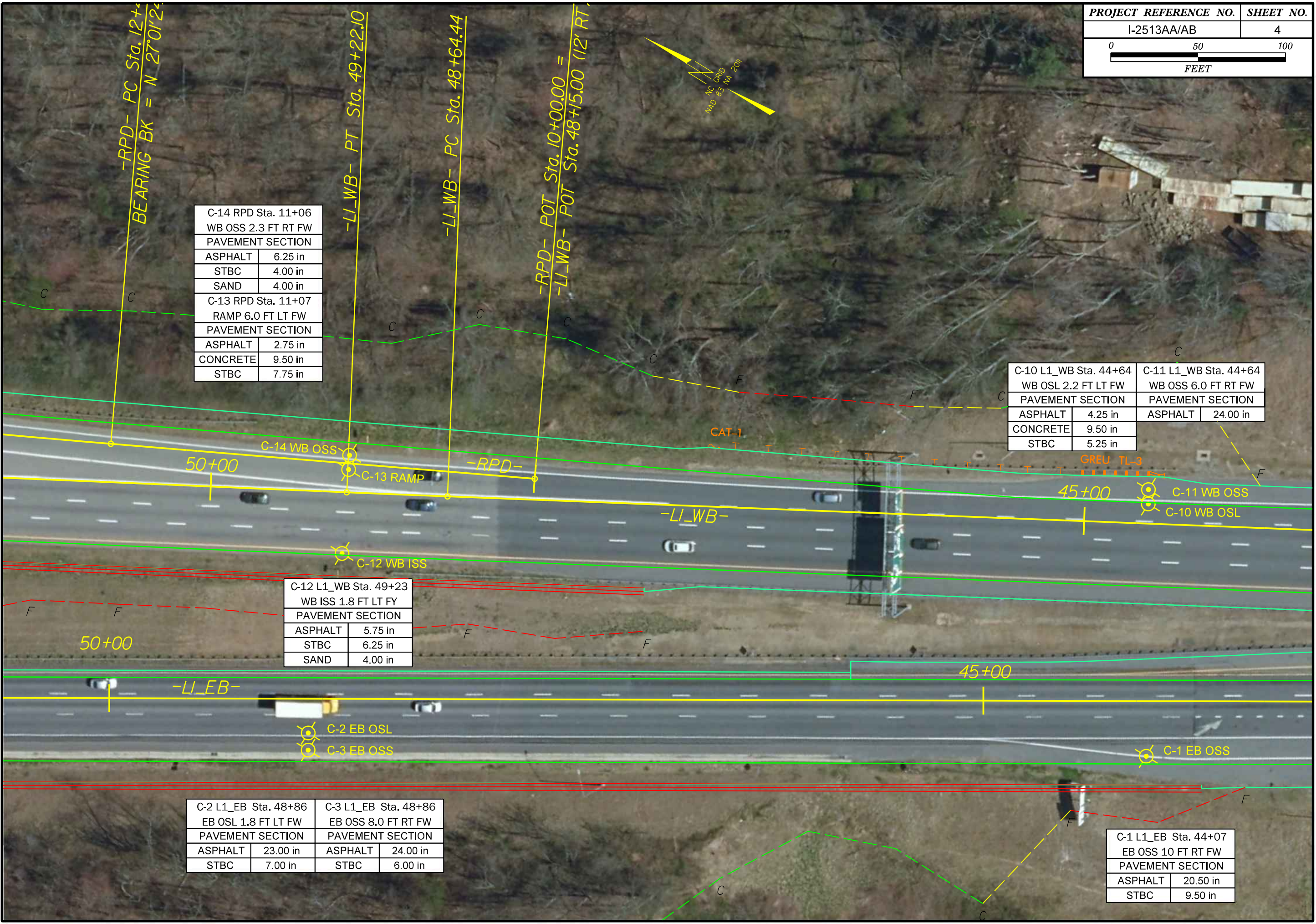
C-14 RPD Sta. 11+06	
WB OSS 2.3 FT RT FW	
PAVEMENT SECTION	
ASPHALT	6.25 in
STBC	4.00 in
SAND	4.00 in
C-13 RPD Sta. 11+07	
RAMP 6.0 FT LT FW	
PAVEMENT SECTION	
ASPHALT	2.75 in
CONCRETE	9.50 in
STBC	7.75 in

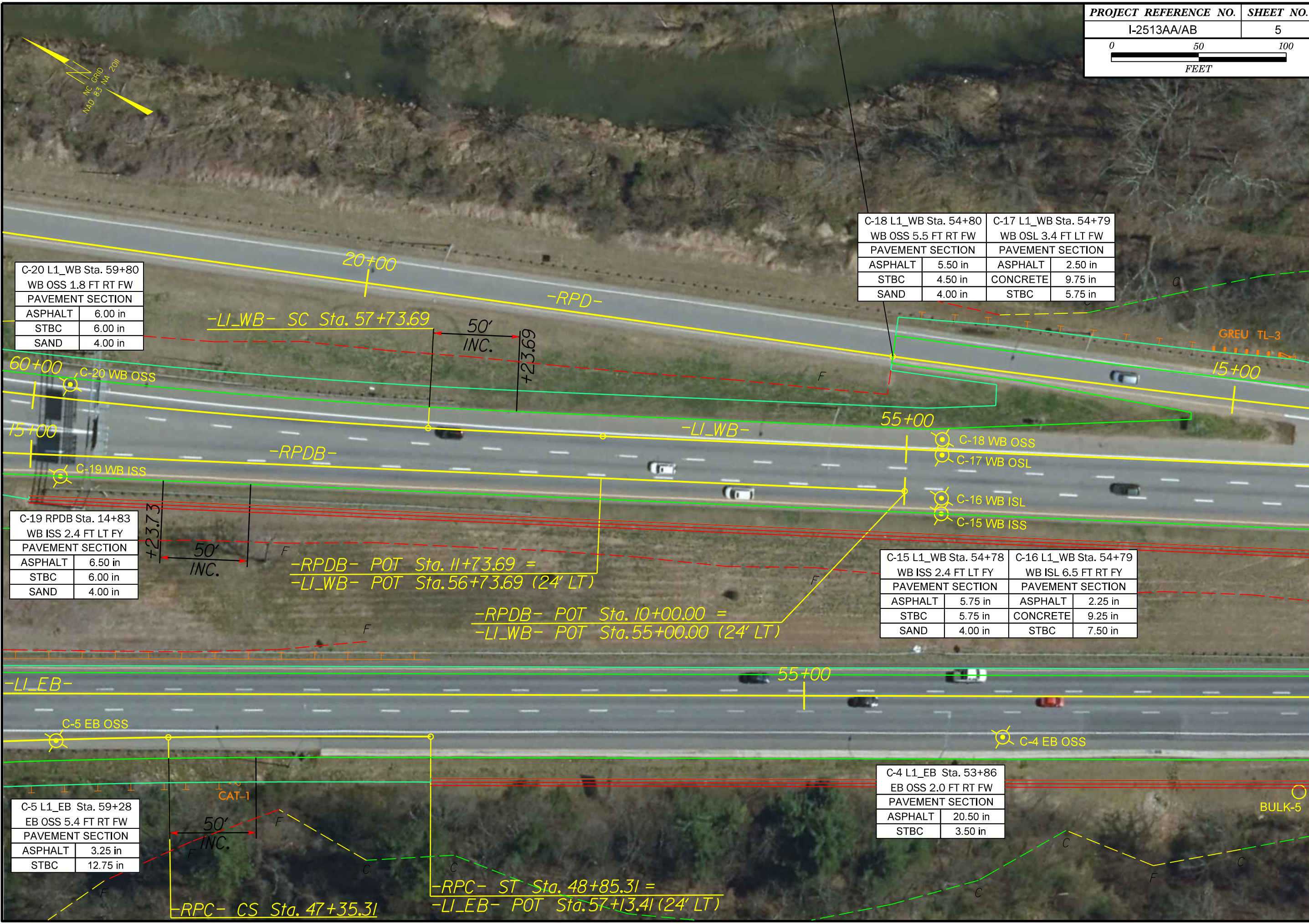
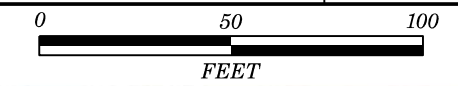
C-10 L1_WB Sta. 44+64		C-11 L1_WB Sta. 44+64	
WB OSL 2.2 FT LT FW		WB OSS 6.0 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	4.25 in	ASPHALT	24.00 in
CONCRETE	9.50 in		
STBC	5.25 in		

C-12 L1_WB Sta. 49+23	
WB ISS 1.8 FT LT FY	
PAVEMENT SECTION	
ASPHALT	5.75 in
STBC	6.25 in
SAND	4.00 in

C-2 L1_EB Sta. 48+86		C-3 L1_EB Sta. 48+86	
EB OSL 1.8 FT LT FW		EB OSS 8.0 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	23.00 in	ASPHALT	24.00 in
STBC	7.00 in	STBC	6.00 in

C-1 L1_EB Sta. 44+07	
EB OSS 10 FT RT FW	
PAVEMENT SECTION	
ASPHALT	20.50 in
STBC	9.50 in





C-20 L1_WB Sta. 59+80	
WB OSS 1.8 FT RT FW	
PAVEMENT SECTION	
ASPHALT	6.00 in
STBC	6.00 in
SAND	4.00 in

C-18 L1_WB Sta. 54+80		C-17 L1_WB Sta. 54+79	
WB OSS 5.5 FT RT FW		WB OSL 3.4 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	5.50 in	ASPHALT	2.50 in
STBC	4.50 in	CONCRETE	9.75 in
SAND	4.00 in	STBC	5.75 in

C-19 RPDB Sta. 14+83	
WB ISS 2.4 FT LT FY	
PAVEMENT SECTION	
ASPHALT	6.50 in
STBC	6.00 in
SAND	4.00 in

C-15 L1_WB Sta. 54+78		C-16 L1_WB Sta. 54+79	
WB ISS 2.4 FT LT FY		WB ISL 6.5 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	5.75 in	ASPHALT	2.25 in
STBC	5.75 in	CONCRETE	9.25 in
SAND	4.00 in	STBC	7.50 in

C-5 L1_EB Sta. 59+28	
EB OSS 5.4 FT RT FW	
PAVEMENT SECTION	
ASPHALT	3.25 in
STBC	12.75 in

C-4 L1_EB Sta. 53+86	
EB OSS 2.0 FT RT FW	
PAVEMENT SECTION	
ASPHALT	20.50 in
STBC	3.50 in

-LI_WB- SC Sta. 57+73.69

-RPDB- POT Sta. 11+73.69 =
-LI_WB- POT Sta. 56+73.69 (24' LT)

-RPDB- POT Sta. 10+00.00 =
-LI_WB- POT Sta. 55+00.00 (24' LT)

-RPC- ST Sta. 48+85.31 =
-LI_EB- POT Sta. 57+13.41 (24' LT)

-RPC- CS Sta. 47+35.31

NC GRID
MAD 83 MA 2011

GREU TL-3

BULK-5

C-25 L1_WB Sta. 65+83		C-26 L1_WB Sta. 65+83	
WB ISS 2.3 FT LT FY		WB OSL 1.9 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.25 in	ASPHALT	3.00 in
STBC	5.75 in	CONCRETE	9.00 in
SAND	4.00 in	STBC	6.50 in

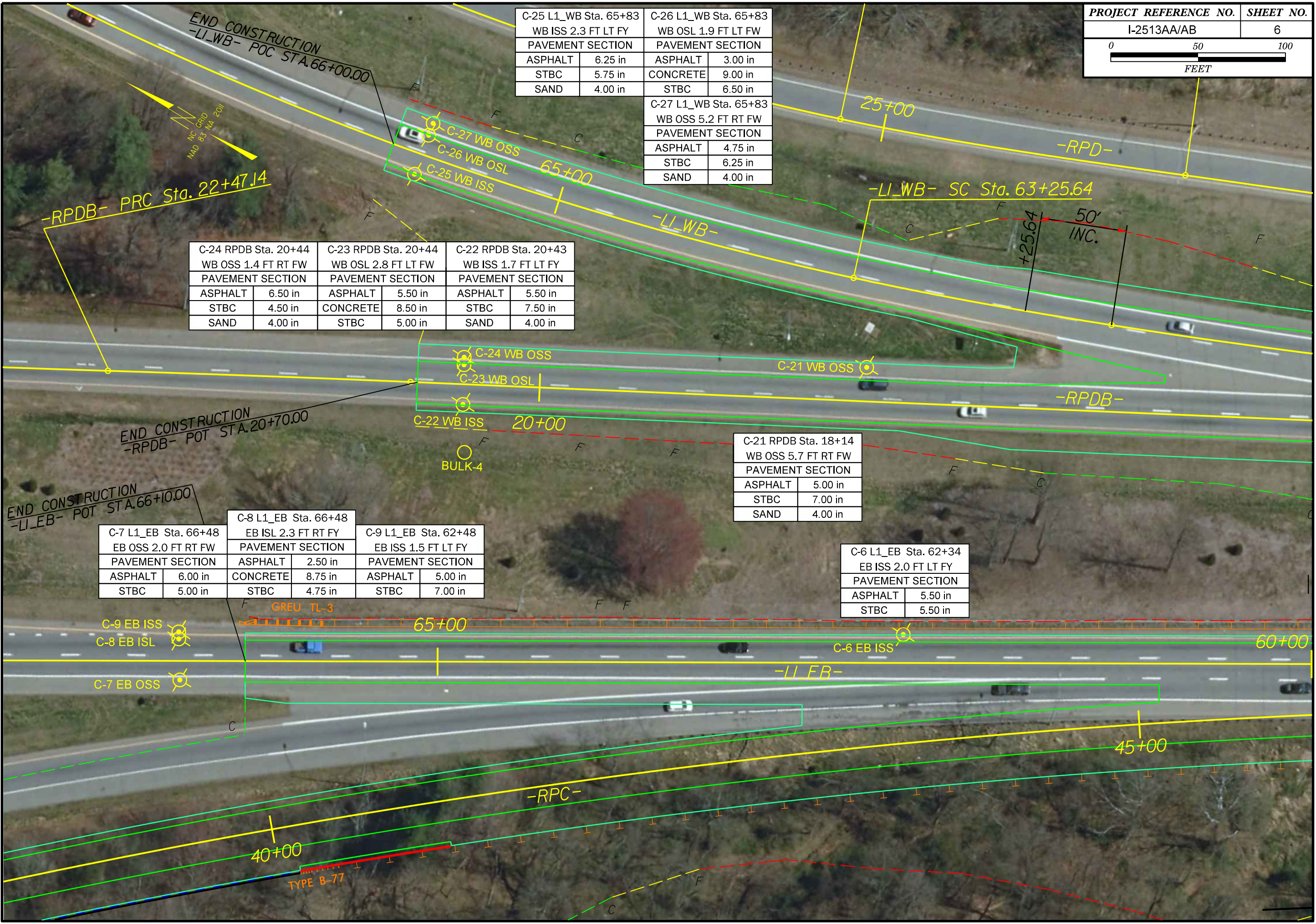
C-27 L1_WB Sta. 65+83	
WB OSS 5.2 FT RT FW	
PAVEMENT SECTION	
ASPHALT	4.75 in
STBC	6.25 in
SAND	4.00 in

C-24 RPDB Sta. 20+44		C-23 RPDB Sta. 20+44		C-22 RPDB Sta. 20+43	
WB OSS 1.4 FT RT FW		WB OSL 2.8 FT LT FW		WB ISS 1.7 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.50 in	ASPHALT	5.50 in	ASPHALT	5.50 in
STBC	4.50 in	CONCRETE	8.50 in	STBC	7.50 in
SAND	4.00 in	STBC	5.00 in	SAND	4.00 in

C-21 RPDB Sta. 18+14	
WB OSS 5.7 FT RT FW	
PAVEMENT SECTION	
ASPHALT	5.00 in
STBC	7.00 in
SAND	4.00 in

C-7 L1_EB Sta. 66+48		C-8 L1_EB Sta. 66+48		C-9 L1_EB Sta. 62+48	
EB OSS 2.0 FT RT FW		EB ISL 2.3 FT RT FY		EB ISS 1.5 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	6.00 in	CONCRETE	8.75 in	ASPHALT	5.00 in
STBC	5.00 in	STBC	4.75 in	STBC	7.00 in

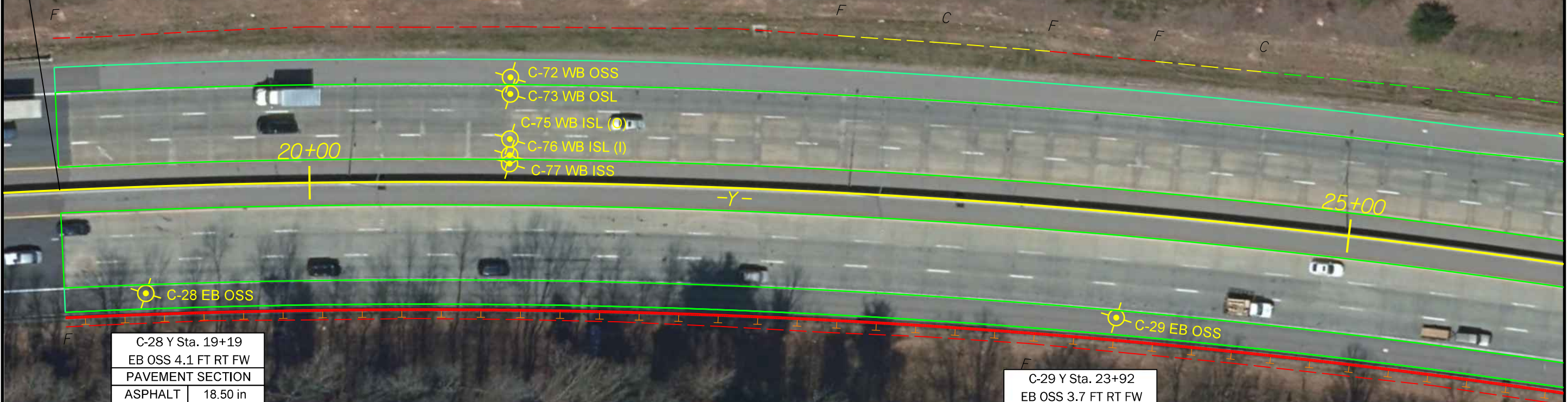
C-6 L1_EB Sta. 62+34	
EB ISS 2.0 FT LT FY	
PAVEMENT SECTION	
ASPHALT	5.50 in
STBC	5.50 in





C-72 Y Sta. 20+96 WB OSS 4.0 FT RT FW			
PAVEMENT SECTION			
ASPHALT	27.00 in		
STBC	3.00 in		
SAND	4.00 in		
C-73 Y Sta. 20+96 WB OSL 4.0 FT LT FW		C-76 Y Sta. 20+96 WB ISL (I) 1.8 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
CONCRETE	14.50 in	CONCRETE	14.50 in
ASPHALT	4.00 in	ASPHALT	4.00 in
CONCRETE	9.50 in	STBC	10.00 in
STBC	4.00 in	SAND	3.50 in
C-75 Y Sta. 20+96 WB ISL (O) 9.5 FT RT FY		C-77 Y Sta. 20+96 WB ISS 2.3 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
CONCRETE	14.25 in	ASPHALT	21.50 in
ASPHALT	10.75 in	SHOULDER DRAIN	
STBC	3.00 in		
SAND	3.00 in		

BEGIN CONSTRUCTION
-Y- STA. 18+80.00



C-28 Y Sta. 19+19 EB OSS 4.1 FT RT FW	
PAVEMENT SECTION	
ASPHALT	18.50 in
STBC	12.50 in
SAND	4.00 in

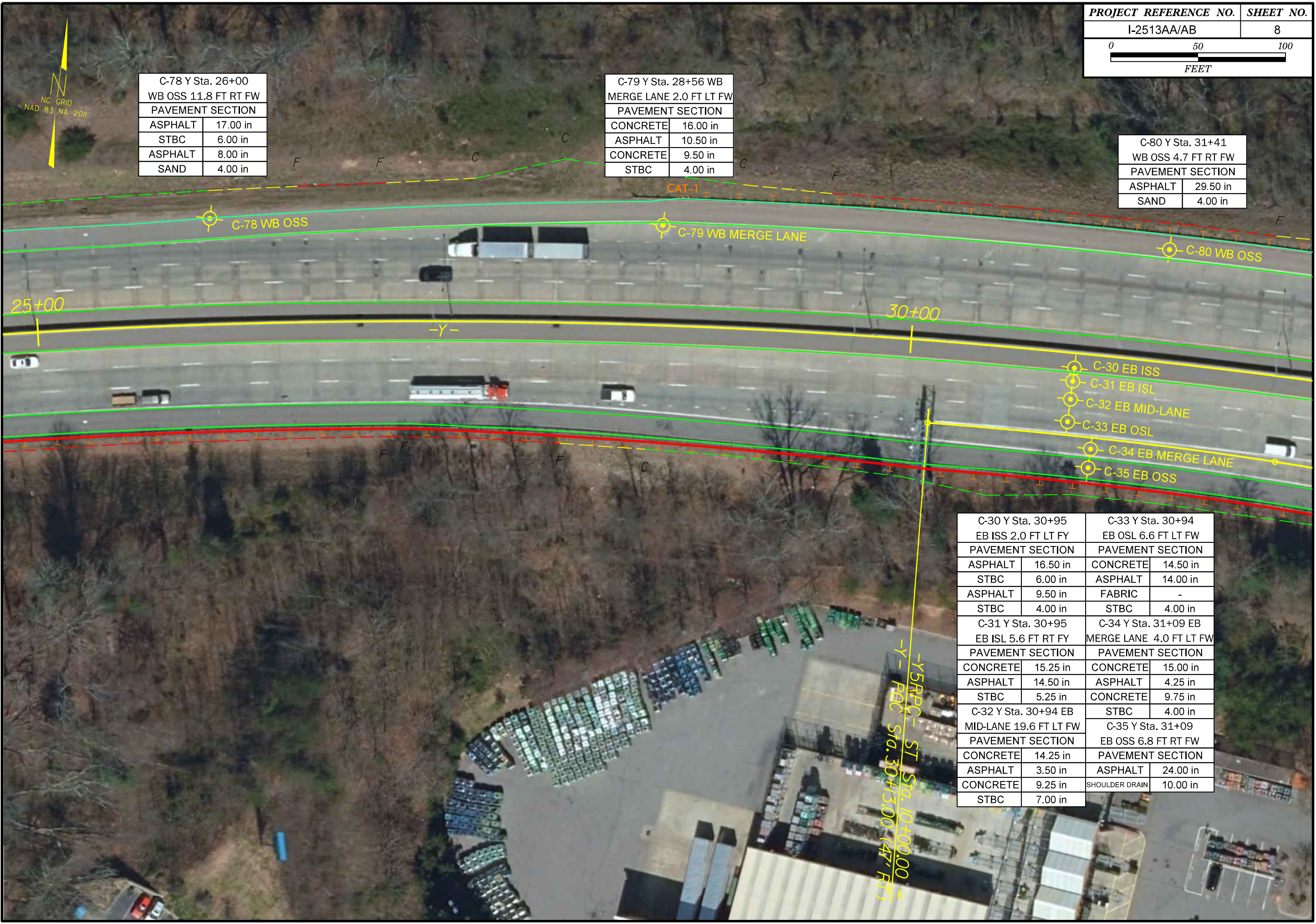
C-29 Y Sta. 23+92 EB OSS 3.7 FT RT FW	
PAVEMENT SECTION	
ASPHALT	23.50 in
STBC	4.50 in
SAND	4.00 in



C-78 Y Sta. 26+00	
WB OSS 11.8 FT RT FW	
PAVEMENT SECTION	
ASPHALT	17.00 in
STBC	6.00 in
ASPHALT	8.00 in
SAND	4.00 in

C-79 Y Sta. 28+56 WB	
MERGE LANE 2.0 FT LT FW	
PAVEMENT SECTION	
CONCRETE	16.00 in
ASPHALT	10.50 in
CONCRETE	9.50 in
STBC	4.00 in

C-80 Y Sta. 31+41	
WB OSS 4.7 FT RT FW	
PAVEMENT SECTION	
ASPHALT	29.50 in
SAND	4.00 in



C-30 Y Sta. 30+95		C-33 Y Sta. 30+94	
EB ISS 2.0 FT LT FY		EB OSL 6.6 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	16.50 in	CONCRETE	14.50 in
STBC	6.00 in	ASPHALT	14.00 in
ASPHALT	9.50 in	FABRIC	-
STBC	4.00 in	STBC	4.00 in
C-31 Y Sta. 30+95		C-34 Y Sta. 31+09 EB	
EB ISL 5.6 FT RT FY		MERGE LANE 4.0 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
CONCRETE	15.25 in	CONCRETE	15.00 in
ASPHALT	14.50 in	ASPHALT	4.25 in
STBC	5.25 in	CONCRETE	9.75 in
C-32 Y Sta. 30+94 EB		STBC	4.00 in
MID-LANE 19.6 FT LT FW		C-35 Y Sta. 31+09	
PAVEMENT SECTION		EB OSS 6.8 FT RT FW	
CONCRETE	14.25 in	PAVEMENT SECTION	
ASPHALT	3.50 in	ASPHALT	24.00 in
CONCRETE	9.25 in	SHOULDER DRAIN	10.00 in
STBC	7.00 in		

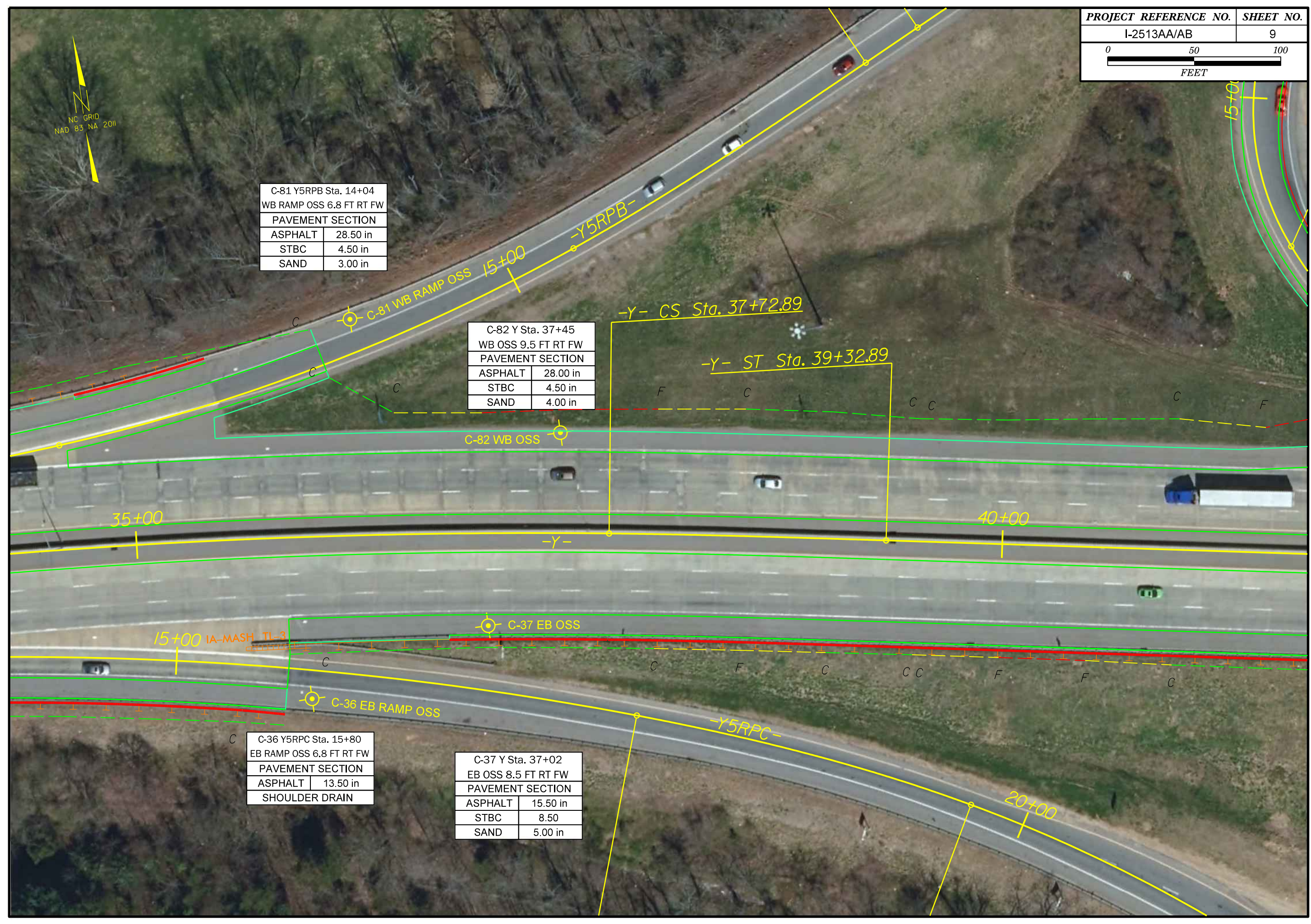


C-81 Y5RPB Sta. 14+04	
WB RAMP OSS 6.8 FT RT FW	
PAVEMENT SECTION	
ASPHALT	28.50 in
STBC	4.50 in
SAND	3.00 in

C-82 Y Sta. 37+45	
WB OSS 9.5 FT RT FW	
PAVEMENT SECTION	
ASPHALT	28.00 in
STBC	4.50 in
SAND	4.00 in

C-36 Y5RPC Sta. 15+80	
EB RAMP OSS 6.8 FT RT FW	
PAVEMENT SECTION	
ASPHALT	13.50 in
SHOULDER DRAIN	

C-37 Y Sta. 37+02	
EB OSS 8.5 FT RT FW	
PAVEMENT SECTION	
ASPHALT	15.50 in
STBC	8.50
SAND	5.00 in



-Y5LPB- PCC Sta. 14+10.16

-Y5LPB- ST Sta. 19+04.12

-Y5LPB- SC Sta. 13+25.00

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C-83 Y Sta. 41+94	
WB OSS 9.4 FT RT FW	
PAVEMENT SECTION	
ASPHALT	18.00 in
STBC	4.00 in

-EY5- PC Sta. 26+42.50

-Y5LPB- ST Sta. 10+00.00 =
-Y- POT Sta. 45+30.63 (47' LT)

-EY5- PT Sta. 27+58

-Y5LPB- POT Sta. 22+7

C-83 WB OSS

45+00

25+00
W 42° 35' 05.6" F

C-38 EB OSL
C-39 EB OSS

C-38 Y Sta. 43+34		C-39 Y Sta. 43+34	
EB OSL 3.7 FT LT FW		EB OSS 4.3 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
CONCRETE	14.25 in	ASPHALT	13.00 in
ASPHALT	5.25 in	STBC	3.00 in

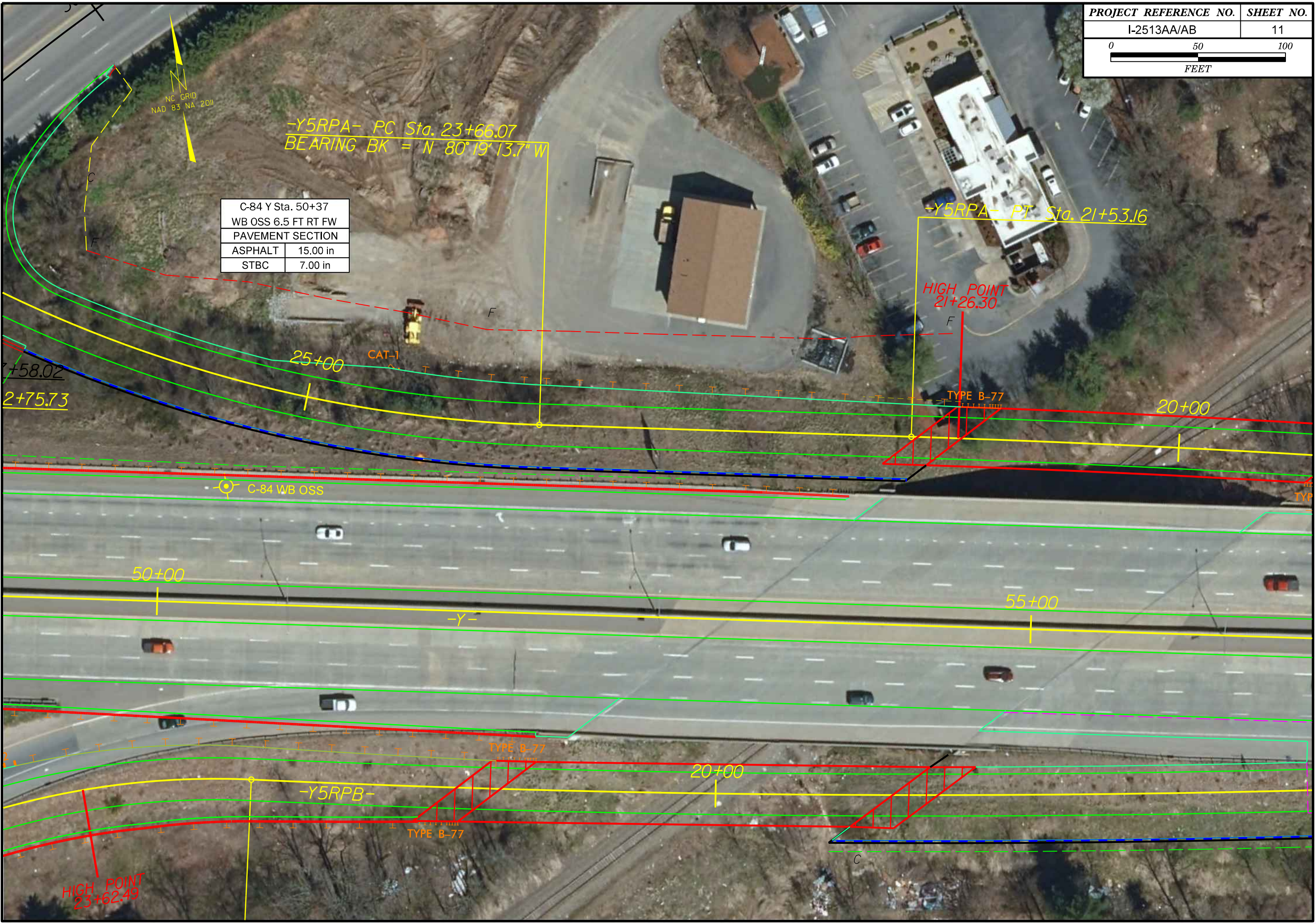
C-40 Y Sta. 48+83	
EB OSS 4.0 FT RT FW	
PAVEMENT SECTION	
ASPHALT	20.00 in
SHOULDER DRAIN	8.00 in

-EY5- PC Sta. 23+19.06

-EY5- PT Sta. 24+38.98

25+00

GREU T1-2



-Y5RPA- PC Sta. 23+66.07
 BEARING BK = N 80° 19' 13.7" W

C-84 Y Sta. 50+37	
WB OSS 6.5 FT RT FW	
PAVEMENT SECTION	
ASPHALT	15.00 in
STBC	7.00 in

-Y5RPA- PT Sta. 21+53.16

HIGH POINT
 21+26.30

C-84 WB OSS

TYPE B-77

-Y-

TYPE B-77

-Y5RPB-

TYPE B-77

HIGH POINT
 23+62.49

NC GRID
NAD 83 NA 2011

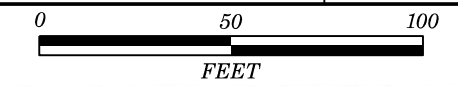
C-85 Y Sta. 58+51			
WB OSS 6.2 FT RT FW			
PAVEMENT SECTION			
ASPHALT	16.00 in		
STBC	8.00 in		
C-86 Y Sta. 58+50		C-87 Y Sta. 58+51	
WB OSL 5.5 FT LT FW		WB OSML 15.5 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
CONCRETE	15.25 in	CONCRETE	14.50 in
ASPHALT	11.75 in	ASPHALT	4.00 in
STBC	5.00 in	CONCRETE	8.50 in
SAND	3.00 in	STBC	3.00 in
		SAND	3.00 in

C-88 Y Sta. 63+40	
WB OSS 6.6 FT RT FW	
PAVEMENT SECTION	
ASPHALT	15.25 in
STBC	6.75 in



C-41 Y Sta. 58+86			
EB OSML 17.6 FT LT FW			
PAVEMENT SECTION			
CONCRETE	15.00 in		
ASPHALT	4.00 in		
CONCRETE	8.50 in	C-43 Y Sta. 58+86	
STBC	5.50 in	EB OSS 3.5 FT RT FW	
C-42 Y Sta. 58+86		PAVEMENT SECTION	
EB OSL 4.8 FT LT FW		ASPHALT	14.75 in
PAVEMENT SECTION		STBC	8.25 in
CONCRETE	15.00 in	SHOULDER DRAIN	8.00 in
ASPHALT	3.75 in		
CONCRETE	8.25 in		
STBC	4.00 in		

C-44 Y Sta. 63+48	
EB OSS 8.3 FT RT FW	
PAVEMENT SECTION	
ASPHALT	14.50 in
STBC	6.50 in



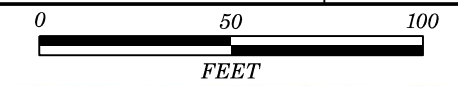
C-89 Y Sta. 68+54	
WB OSS 5.5 FT RT FW	
PAVEMENT SECTION	
ASPHALT	15.50 in
ABC	24.50 in
FABRIC	-

C-90 Y Sta. 75+02	
WB OSS 6.0 FT RT FW	
PAVEMENT SECTION	
ASPHALT	15.00 in
STBC	6.00 in



C-45 Y Sta. 68+28	
EB OSS 3.8 FT RT FW	
PAVEMENT SECTION	
ASPHALT	16.50 in
STBC	3.00 in

C-46 Y Sta. 75+08	
EB OSS 8.2 FT RT FW	
PAVEMENT SECTION	
ASPHALT	14.75 in
STBC	8.25 in



MC GRID
NAD 83 NA 20M

C-91 Y Sta. 80+09	
WB OSS 6.0 FT RT FW	
PAVEMENT SECTION	
ASPHALT	17.00 in
CONCRETE	4.00 in

C-92 Y Sta. 85+47	
WB OSS 5.8 FT RT FW	
PAVEMENT SECTION	
ASPHALT	16.00 in
CSS	6.00 in

C-91 WB OSS

C-92 WB OSS

80+00

85+00

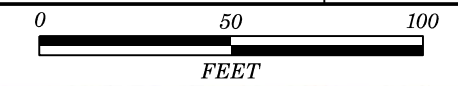
C-47 EB OSS

C-48 EB OSS

BULK-1

C-47 Y Sta. 80+18	
EB OSS 4.0 FT RT FW	
PAVEMENT SECTION	
ASPHALT	23.00 in
SHOULDER DRAIN	8.00 in

C-48 Y Sta. 85+43	
EB OSS 9.5 FT RT FW	
PAVEMENT SECTION	
ASPHALT	16.75 in
STBC	6.25 in



C-93 Y Sta. 88+85		C-96 Y Sta. 88+75	
WB OSS 6.3 FT RT FW		WB ISL 2.4 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	36.50 in	CONCRETE	15.50 in
STBC	3.50 in	ASPHALT	10.50 in
C-94 Y Sta. 88+74		C-97 Y Sta. 88+75	
WB OSL 5.7 FT LT FW		WB ISS 3.7 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
CONCRETE	13.75 in	ASPHALT	19.50 in
ASPHALT	10.25 in	STBC	6.50 in
STBC	2.00 in	STBC	6.50 in
SAND	4.00 in		

-Y-WB- POT Sta. 10+00.00 =
-Y- POT Sta. 93+44.02 (47' LT)

C-98 Y_WB Sta. 10+69	
WB OSS 2.1 FT RT FW	
PAVEMENT SECTION	
ASPHALT	34.50 in
STBC	2.50 in



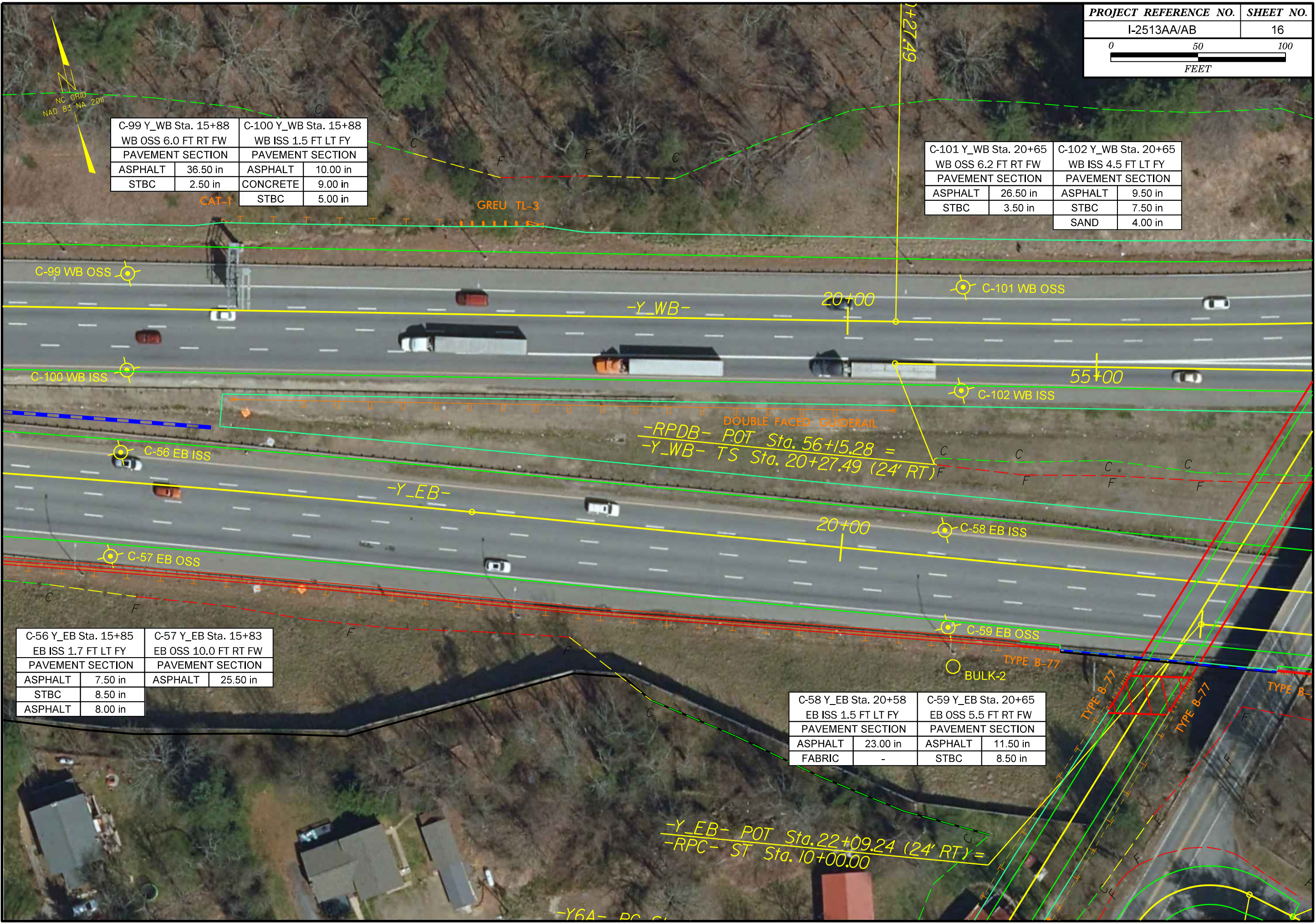
C-49 Y Sta. 87+83		C-51 Y Sta. 87+84		C-53 Y Sta. 87+84	
EB ISS 4.0 FT LT FY		EB ISML 16.3 FT RT FY		EB OSL 2.8 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	17.00 in	CONCRETE	15.00 in	CONCRETE	14.00 in
STBC	5.00 in	ASPHALT	4.25 in	ASPHALT	10.00 in
C-50 Y Sta. 87+83		CONCRETE 8.50 in		STBC 6.00 in	
EB ISL 5.5 FT RT FY		STBC 6.25 in		C-54 Y Sta. 87+84	
PAVEMENT SECTION		C-52 Y Sta. 87+84		EB OSS 8.2 FT RT FW	
CONCRETE	15.75 in	EB OSML 13.5 FT LT FW		PAVEMENT SECTION	
ASPHALT	4.50 in	PAVEMENT SECTION		ASPHALT	16.75 in
STBC	10.00 in	CONCRETE	14.75 in	STBC	6.75 in
		ASPHALT	4.75 in		
		CONCRETE	5.25 in		
		STBC	7.25 in		

C-55 Y_EB Sta. 10+59	
EB OSS 4.0 FT RT FW	
PAVEMENT SECTION	
ASPHALT	25.75 in
STBC	7.25 in

NC GRID
NAD 83 NA 2011

C-99 Y_WB Sta. 15+88		C-100 Y_WB Sta. 15+88	
WB OSS 6.0 FT RT FW		WB ISS 1.5 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	36.50 in	ASPHALT	10.00 in
STBC	2.50 in	CONCRETE	9.00 in
		STBC	5.00 in

C-101 Y_WB Sta. 20+65		C-102 Y_WB Sta. 20+65	
WB OSS 6.2 FT RT FW		WB ISS 4.5 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	26.50 in	ASPHALT	9.50 in
STBC	3.50 in	STBC	7.50 in
		SAND	4.00 in



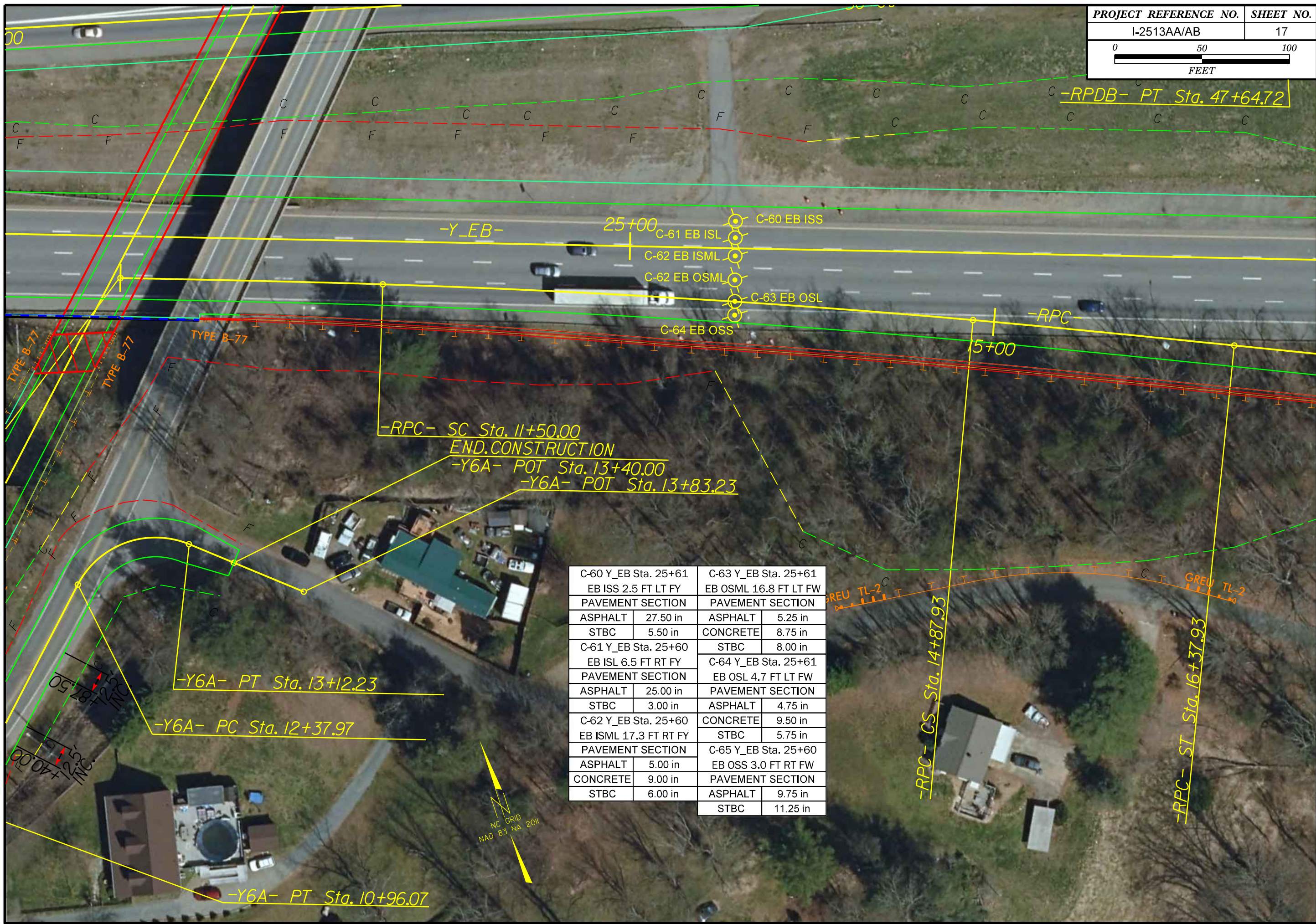
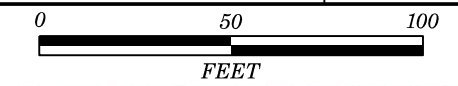
C-56 Y_EB Sta. 15+85		C-57 Y_EB Sta. 15+83	
EB ISS 1.7 FT LT FY		EB OSS 10.0 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.50 in	ASPHALT	25.50 in
STBC	8.50 in		
ASPHALT	8.00 in		

C-58 Y_EB Sta. 20+58		C-59 Y_EB Sta. 20+65	
EB ISS 1.5 FT LT FY		EB OSS 5.5 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	23.00 in	ASPHALT	11.50 in
FABRIC	-	STBC	8.50 in

DOUBLE FACED GUIDERAIL
 -RPDB- POT Sta. 56+15.28 =
 -Y_WB- TS Sta. 20+27.49 (24' RT)

-Y_EB- POT Sta. 22+09.24 (24' RT) =
 -RPC- ST Sta. 10+00.00

-Y6A- PC CI



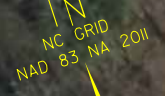
-RPC- SC Sta. 11+50.00
 END.CONSTRUCTION
 -Y6A- POT Sta. 13+40.00
 -Y6A- POT Sta. 13+83.23

-Y6A- PT Sta. 13+12.23

-Y6A- PC Sta. 12+37.97

-Y6A- PT Sta. 10+96.07

C-60 Y_EB Sta. 25+61 EB ISS 2.5 FT LT FY PAVEMENT SECTION	C-63 Y_EB Sta. 25+61 EB OSML 16.8 FT LT FW PAVEMENT SECTION
ASPHALT 27.50 in STBC 5.50 in	ASPHALT 5.25 in CONCRETE 8.75 in
C-61 Y_EB Sta. 25+60 EB ISL 6.5 FT RT FY PAVEMENT SECTION	STBC 8.00 in
ASPHALT 25.00 in STBC 3.00 in	C-64 Y_EB Sta. 25+61 EB OSL 4.7 FT LT FW PAVEMENT SECTION
C-62 Y_EB Sta. 25+60 EB ISML 17.3 FT RT FY PAVEMENT SECTION	CONCRETE 9.50 in STBC 5.75 in
ASPHALT 5.00 in CONCRETE 9.00 in STBC 6.00 in	C-65 Y_EB Sta. 25+60 EB OSS 3.0 FT RT FW PAVEMENT SECTION
	ASPHALT 9.75 in STBC 11.25 in



-RPC- CS Sta. 14+87.93

-RPC- ST Sta. 16+37.93

GREU TL-2

TYPE B-77

TYPE B-77

-Y_EB-

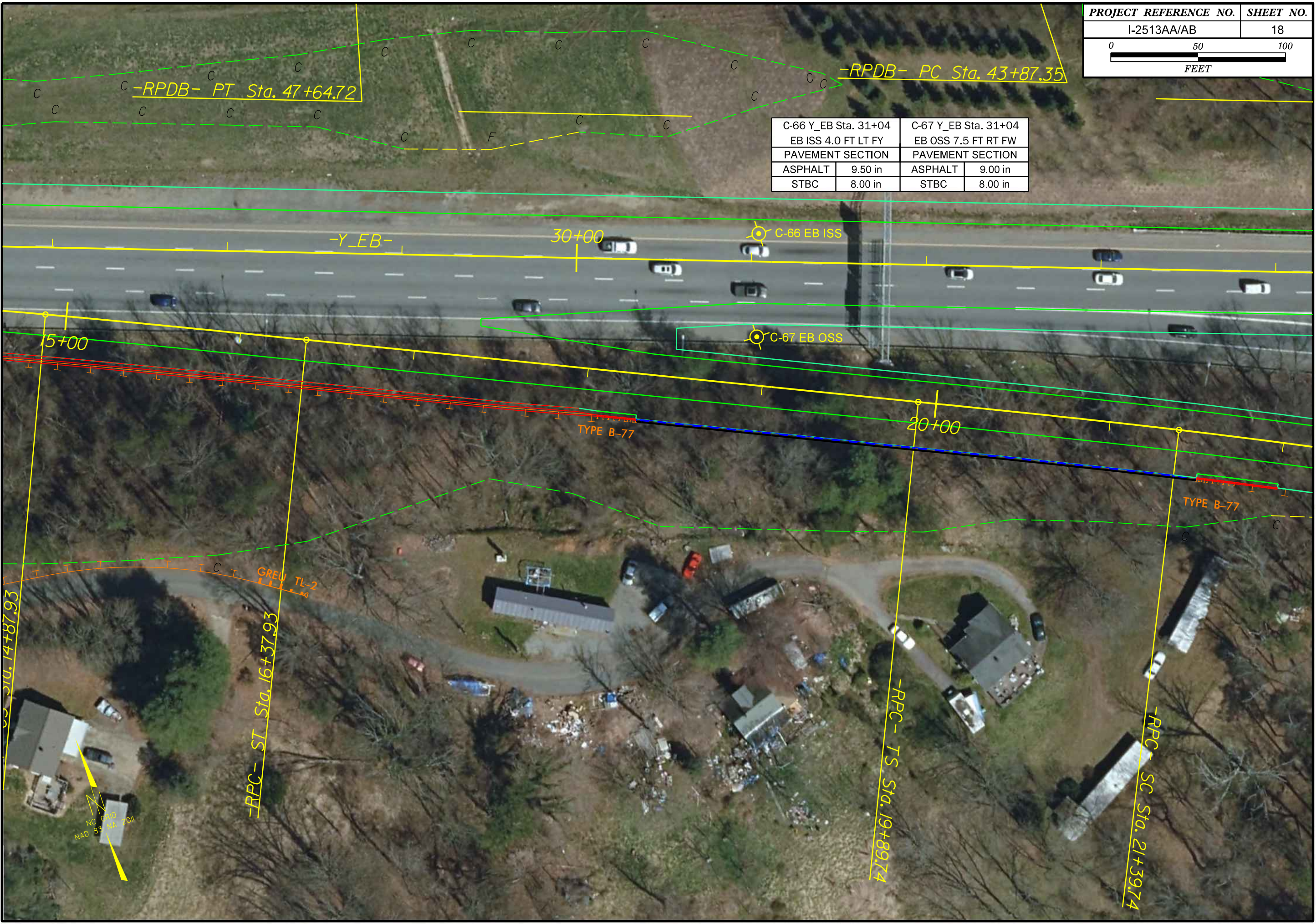
25+00

- C-60 EB ISS
- C-61 EB ISL
- C-62 EB ISML
- C-62 EB OSML
- C-63 EB OSL
- C-64 EB OSS

15+00

-RPC

-RPDB- PT Sta. 47+64.72



C-66 Y_EB Sta. 31+04		C-67 Y_EB Sta. 31+04	
EB ISS 4.0 FT LT FY		EB OSS 7.5 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	9.50 in	ASPHALT	9.00 in
STBC	8.00 in	STBC	8.00 in

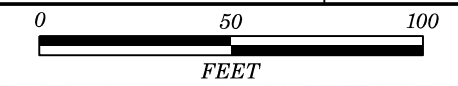
14+87.93

-RPC- ST Sta. 16+37.93

-RPC- TS Sta. 19+89.74

-RPC- SC Sta. 21+39.74

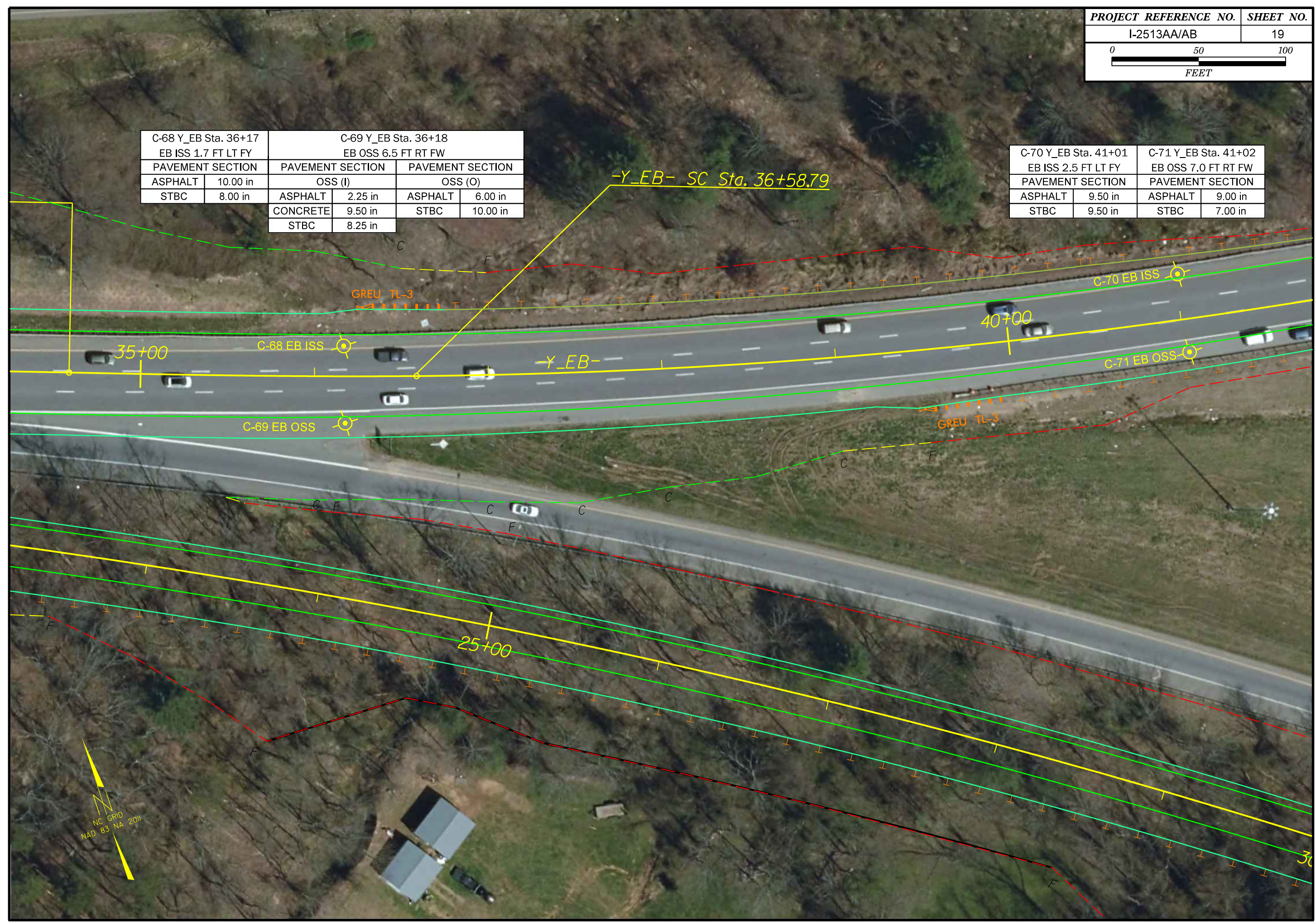
NC GRID
NAD 83 NA 2011



C-68 Y_EB Sta. 36+17		C-69 Y_EB Sta. 36+18			
EB ISS 1.7 FT LT FY		EB OSS 6.5 FT RT FW			
PAVEMENT SECTION		PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	10.00 in	OSS (I)		OSS (O)	
STBC	8.00 in	ASPHALT	2.25 in	ASPHALT	6.00 in
		CONCRETE	9.50 in	STBC	10.00 in
		STBC	8.25 in		

C-70 Y_EB Sta. 41+01		C-71 Y_EB Sta. 41+02	
EB ISS 2.5 FT LT FY		EB OSS 7.0 FT RT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	9.50 in	ASPHALT	9.00 in
STBC	9.50 in	STBC	7.00 in

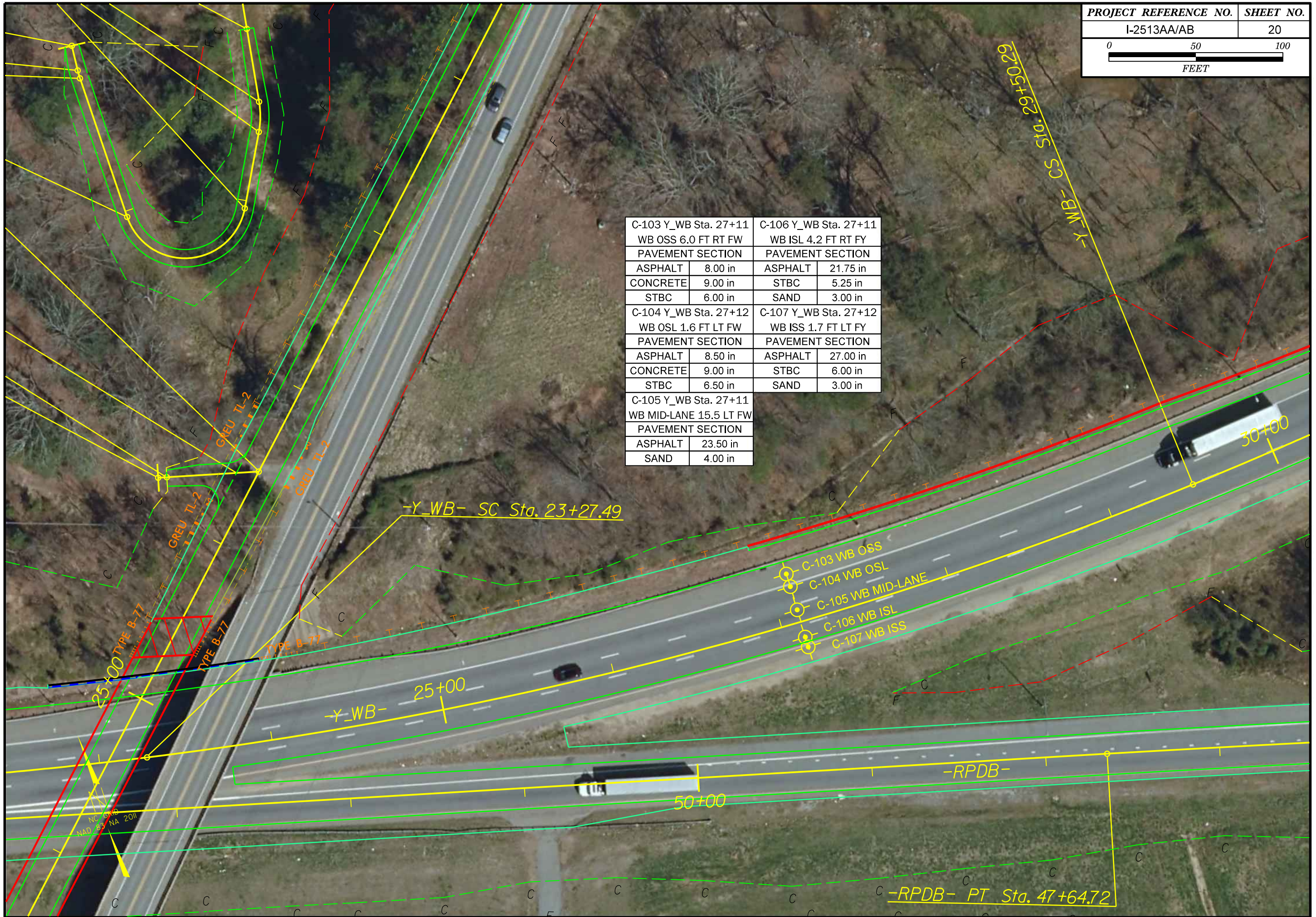
-Y_EB- SC Sta. 36+58.79



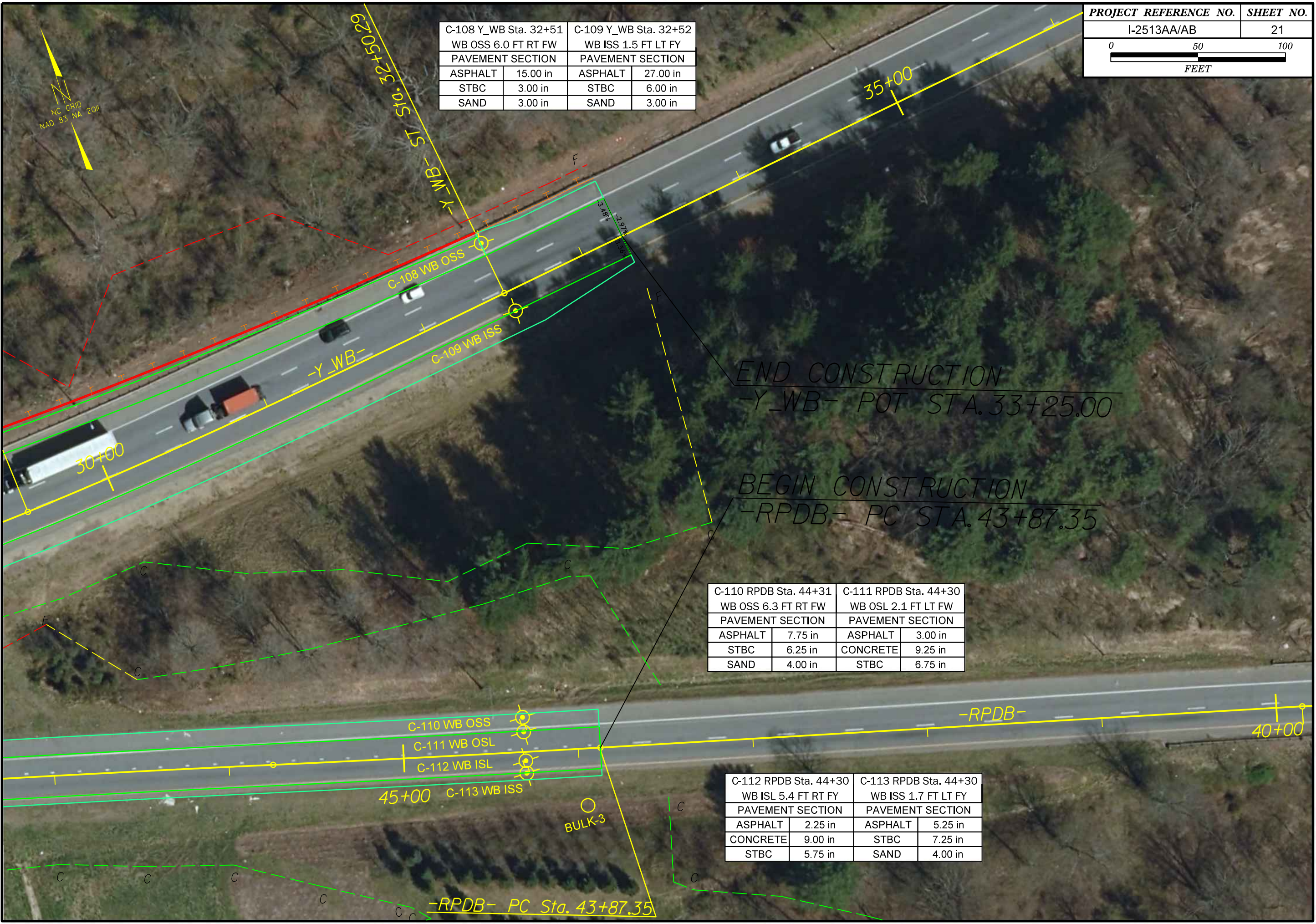
NC GRID
NAD 83 NA 2011



C-103 Y_WB Sta. 27+11		C-106 Y_WB Sta. 27+11	
WB OSS 6.0 FT RT FW		WB ISL 4.2 FT RT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	8.00 in	ASPHALT	21.75 in
CONCRETE	9.00 in	STBC	5.25 in
STBC	6.00 in	SAND	3.00 in
C-104 Y_WB Sta. 27+12		C-107 Y_WB Sta. 27+12	
WB OSL 1.6 FT LT FW		WB ISS 1.7 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	8.50 in	ASPHALT	27.00 in
CONCRETE	9.00 in	STBC	6.00 in
STBC	6.50 in	SAND	3.00 in
C-105 Y_WB Sta. 27+11			
WB MID-LANE 15.5 LT FW			
PAVEMENT SECTION			
ASPHALT	23.50 in		
SAND	4.00 in		



C-108 Y_WB Sta. 32+51		C-109 Y_WB Sta. 32+52	
WB OSS 6.0 FT RT FW		WB ISS 1.5 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	15.00 in	ASPHALT	27.00 in
STBC	3.00 in	STBC	6.00 in
SAND	3.00 in	SAND	3.00 in



END CONSTRUCTION
 -Y_WB- POT STA. 33+25.00

BEGIN CONSTRUCTION
 -RPDB- PC STA. 43+87.35

C-110 RPDB Sta. 44+31		C-111 RPDB Sta. 44+30	
WB OSS 6.3 FT RT FW		WB OSL 2.1 FT LT FW	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	7.75 in	ASPHALT	3.00 in
STBC	6.25 in	CONCRETE	9.25 in
SAND	4.00 in	STBC	6.75 in

C-112 RPDB Sta. 44+30		C-113 RPDB Sta. 44+30	
WB ISL 5.4 FT RT FY		WB ISS 1.7 FT LT FY	
PAVEMENT SECTION		PAVEMENT SECTION	
ASPHALT	2.25 in	ASPHALT	5.25 in
CONCRETE	9.00 in	STBC	7.25 in
STBC	5.75 in	SAND	4.00 in

-RPDB- PC Sta. 43+87.35

PAVEMENT INVESTIGATION DATA SHEET

Project:	34165.1.6
TIP:	I-2513AA/AB

Route:	I-26 from I-40 to SR 3548 (Haywood Road)
County:	Buncombe

Date Performed:	9/27-10/1 & 10/11-10/13 (6 Nights)
Field Personnel:	M. Brewer, D. Underwood, C. Odom

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Pavement Layering	SG					Asphalt Notes	GPS Coordinates		
		Lane	Shoulder				Gross to Top of Soil	Asphalt	ABC/STBC	Shoulder Drain Drainage Sand CSS (Chemical)	Concrete		Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)		Northing	Easting	
C-1 L1_EB Sta. 44+07 EB OSS	Cut 20.0	11.5 OSL	17.0 PS	10 RT FW		C	30.00	20.50	9.50 STBC	-	-	Asphalt STBC SG	2.5-5.0: RES - Brown,Silty, Gravelly, Fine to Coarse SAND, trace mica	S-1	A-1-b	M	5	No Observed Shoulder Distress, Low Severity Longitudinal Cracking (OSL) 12-inch pothole at longitudinal joint between Mid-Lane/OSL	673,499	927,568	
C-2 L1_EB Sta. 48+86 EB OSL	Cut 20.0	11.5 OSL (Old Merge Lane)	10.0 PS Concrete Exp. Gutter	1.8 LT FW		C	30.00	23.00	7.00 STBC	-	-	Asphalt STBC SG	2.5-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-2	A-4	M	5	Moderate to High Severity Longitudinal and Transverse Cracking at OSL/ISL joints (Reflective) No shoulder distress, 12-inch pothole at longitudinal joint between Mid-Lane/OSL	673,909	927,319	
C-3 L1_EB Sta. 48+86 EB OSS	Cut 20.0	11.5 OSL (Old Merge Lane)	10.0 PS Concrete Exp. Gutter	8.0 RT FW		C	30.00	24.00	6.00 STBC	-	-	Asphalt STBC SG	2.5-5.0: RES - Brown, Silty Fine to Coarse SAND, trace mica	S-3	A-2-4	M	5	Moderate to High Severity Longitudinal and Transverse Cracking at OSL/ISL joints (Reflective) No shoulder distress, Approx. 12-inch pothole at longitudinal joint between Mid-Lane/OSL	673,914	927,327	
Bulk-5 L1_EB Sta. 52+17 LT	Cut 15.0	-	-	-	-	-	-	-	-	-	-	-	1.0-3.0: RES - Brown-Red, F.-Cse. Sandy, Silty CLAY, trace mica Slightly Plastic	Bulk-5	A-7-5	M 17%	3	Bulk Sample #5 Collected from Top of Cut Slope (LT)	674,177	927,124	
C-4 L1_EB Sta. 53+86 EB OSS	Cut 10.0	12.0 Merge Lane	10.0 PS Concrete Exp. Gutter	2.0 RT FW		C	24.00	20.50	3.50 STBC	-	-	Asphalt STBC SG	2.0-5.0: RES - Orange, Fine to Coarse Sandy SILT, trace mica	S-4	A-4	M	5	Moderate Severity Longitudinal and Transverse Cracking in Merge Lane (ISWP) No shoulder distress	674,338	927,062	
C-5 L1_EB Sta. 59+28 EB OSS	Fill 2.5	12.0 OSL	9.5 PS	5.4 RT FW		C	16.00	3.25	12.75 STBC	-	-	Asphalt STBC SG	1.3-2.5: RE - Red-Brown, Fine to Coarse Sandy SILT, trace mica 2.5-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-5 Ref-6	A-4 A-4	M M	5 5	Low Severity Transverse Cracking (OSS), Moderate Severity Transverse and Longitudinal Cracking at OSL/ISL Joints (Reflective), 12-inch x 12-inch patched pothole (OSL)	674,797	926,775	
C-6 L1_EB Sta. 62+34 EB ISS	Fill 0.9	10.5 ISL	3.5 PS	2.0 LT FY		C	11.00	5.50	5.50 STBC	-	-	Asphalt STBC SG	0.9-5.0: RES - Brown, Fine to Coarse Sandy, Clayey SILT, trace mica	S-6	A-7-5	M	5	Low Severity Transverse Cracking (ISS), Full Depth Bottom Up Crack in Core	675,081	926,652	
C-7 L1_EB Sta. 66+48 EB OSS	Fill 1.3	11.5 OSL	12.0 PS	2.0 RT FW		C	11.00	6.00	5.00 STBC	-	-	Asphalt STBC SG	0.9-1.3: RE - Brown-Orange, Fine to Coarse Sandy SILT, trace mica 1.3-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	Ref-9 S-7	A-4 A-4	M M	5	Moderate to High Severity Transverse and Longitudinal Cracking at OSL/ISL Joints (Reflective) Low to Moderate Severity Transverse and Longitudinal Cracking (ISS) Approx. 12-inch pothole at transverse joint at ISL/OSL	675,419	926,412	
C-8 L1_EB Sta. 66+48 EB ISL	Fill 1.9	12.0 ISL	3.0 PS	2.3 RT FY		C	16.00	2.50	4.75 STBC	-	8.75	Asphalt Concrete STBC/SG	1.3-1.9: RE - Brown-Orange, Fine to Coarse Sandy SILT, trace mica 1.9-5.0: RES - Gray-Brown, Fine to Coarse Sandy SILT, trace mica and gravel	Ref-9 S-8	A-4 A-4	M M	5	Moderate to High Severity Transverse and Longitudinal Cracking at OSL/ISL Joints (Reflective) Low to Moderate Severity Transverse and Longitudinal Cracking (ISS) Approx. 12-inch pothole at transverse joint at ISL/OSL	675,432	926,432	
C-9 L1_EB Sta. 62+48 EB ISS	Fill 1.5	12.0 ISL	3.0 PS	1.5 LT FY		C	12.00	5.00	7.00 STBC	-	-	Asphalt STBC SG	1.0-1.5: RE - Brown-Orange, Silty Fine to Coarse SAND, trace mica 1.5-5.0: RES - Gray-Brown, Fine to Coarse Sandy SILT, trace mica and gravel	S-9 S-9A	A-2-4 A-4	M M	5	Moderate to High Severity Transverse and Longitudinal Cracking at OSL/ISL Joints (Reflective) Low to Moderate Severity Transverse and Longitudinal Cracking (ISS) Approx. 12-16 inch pothole at transverse joint at ISL/OSL	675,434	926,435	

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

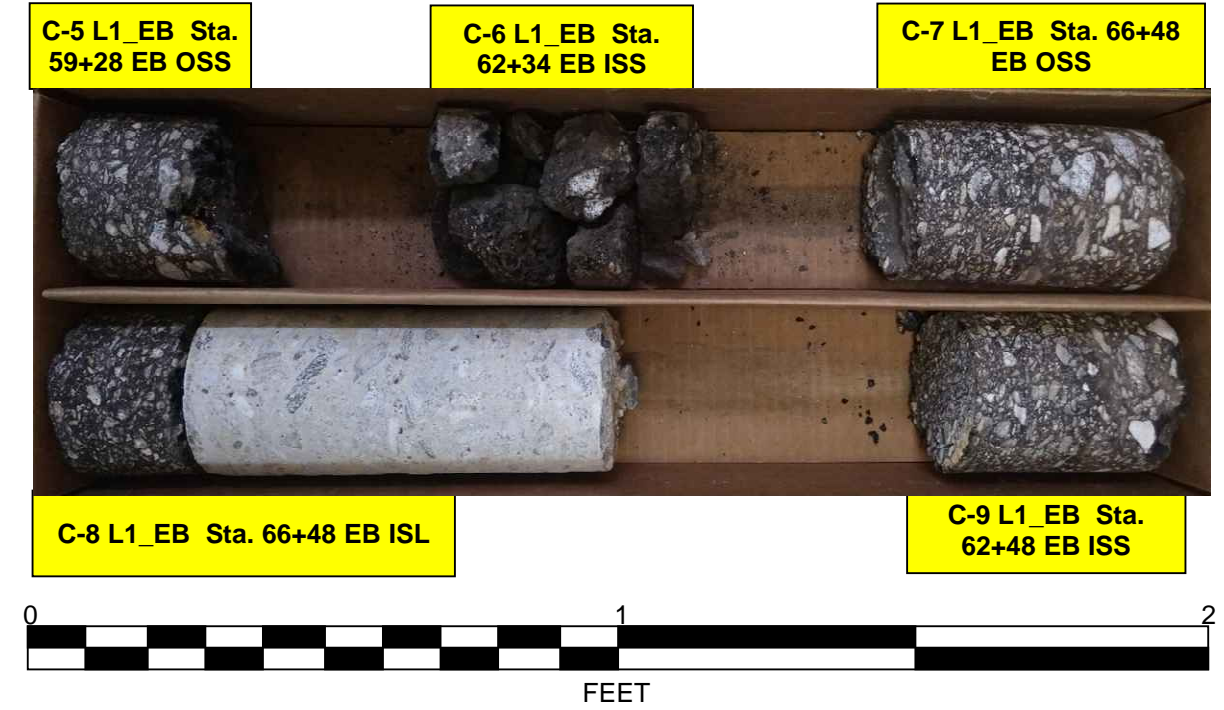
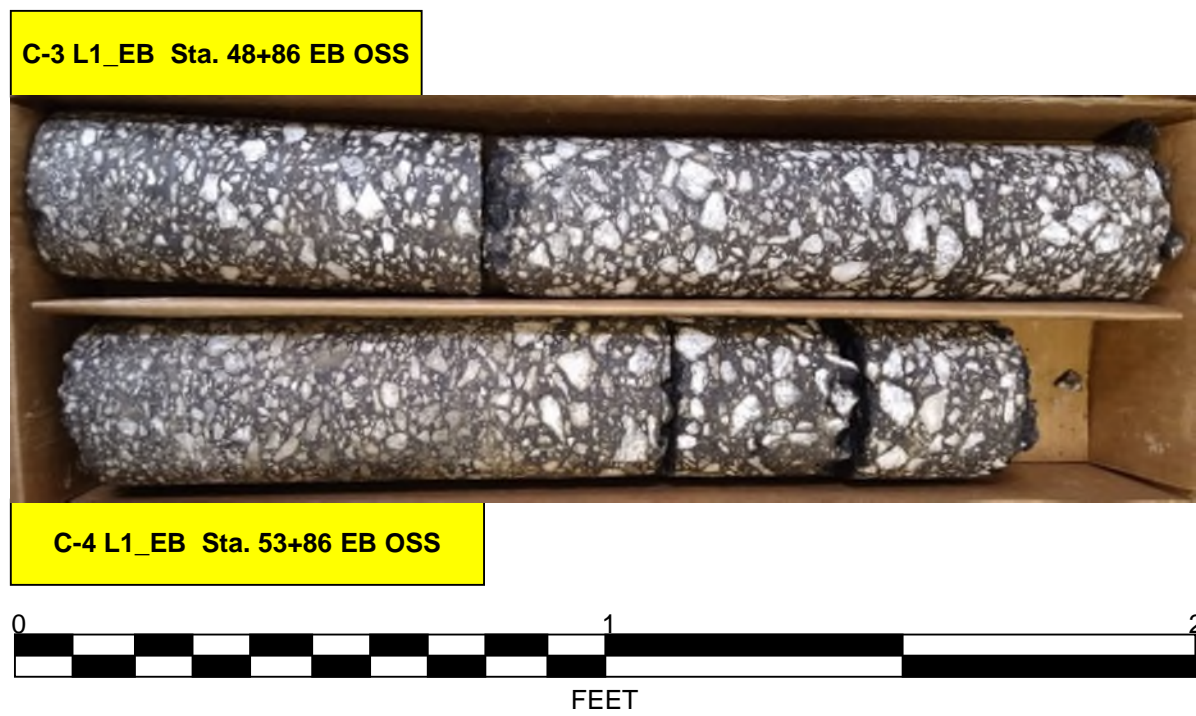
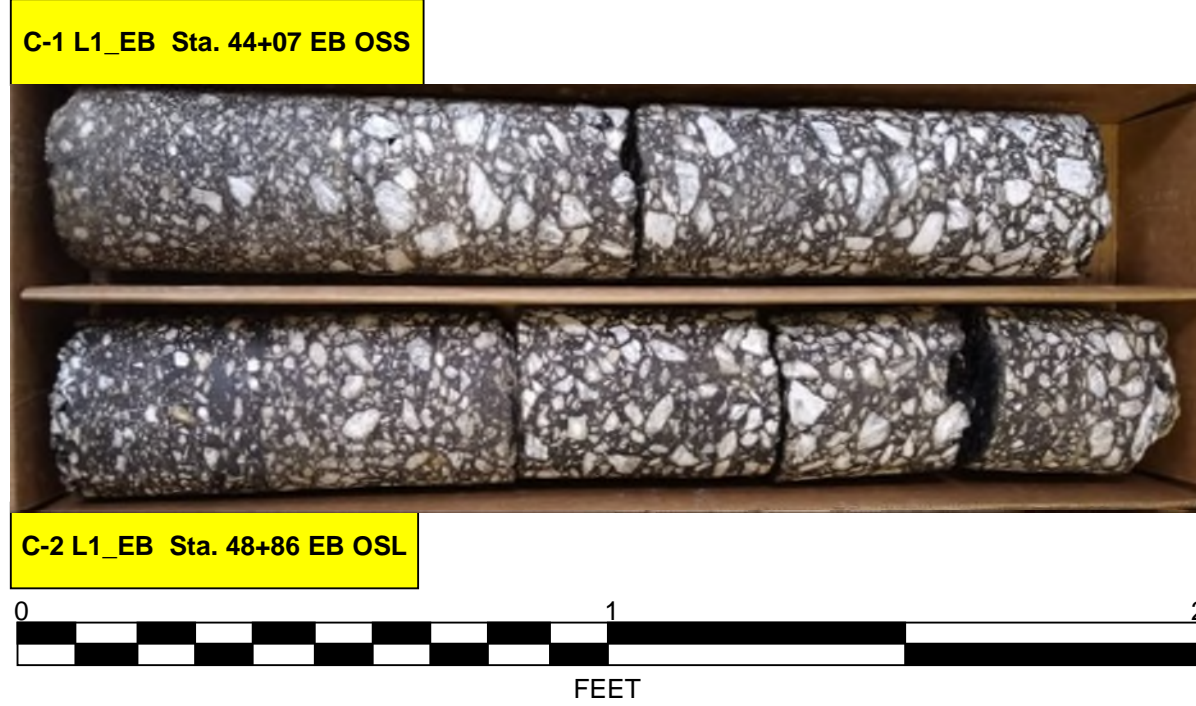
Prepared by: DMB
Reviewed by: REK

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET							WBS NO.	PROJECT TIP I.D.	ROUTE
							34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)
							COUNTY	FIELD PROFESSIONAL	FIELD CREW
Haywood							M. Brewer	C. Odom/D. Underwood	
Test Location				Date Run	Test Location			Date Run	
C-1 L1_EB Sta. 44+07 EB OSS 10 FT RT FW				9/27-10/1, 10/11-10/13	C-2 L1_EB Sta. 48+86 EB OSL 1.8 FT LT FW			9/27-10/1, 10/11-10/13	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill		
DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut		
1.20	19.40	89.60		1.20	36.20				
2.20	19.60	90.70		2.40	37.00				
2.80	20.00			3.50	37.80				
3.20	20.40			4.10	38.40				
3.60	20.70			5.40	39.20				
4.00	20.90			5.90	40.10				
4.20	21.20			6.80	41.40				
4.40	21.50			7.40	43.00				
4.90	22.00			8.10	44.60				
5.40	22.10			8.60	45.90				
5.50	22.40			9.30	46.80				
5.90	22.70			9.70	48.00				
6.40	23.00			10.30	49.90				
6.60	23.30			10.70	52.00				
6.80	23.80			11.10	53.90				
7.10	24.00			11.30	55.40				
7.30	24.50			11.40	55.90				
7.50	24.90			11.50	56.60				
7.80	25.50			11.70	57.20				
7.90	25.80			11.90	57.60				
8.10	26.10			12.00	58.10				
8.50	26.60			12.40	58.70				
8.90	27.10			12.60	59.60				
9.60	27.40			13.00	60.40				
9.90	27.80			13.30	61.20				
10.20	28.20			13.70	62.20				
10.60	28.70			14.00	63.20				
10.90	29.50			14.20	64.10				
11.20	30.10			14.70	64.80				
11.40	30.80			15.00	65.40				
11.80	31.50			15.20	66.00				
12.00	31.90			15.70	66.40				
12.30	32.50			16.20	66.80				
12.46	32.90			16.40	67.30				
12.62	33.40			16.90	67.60				
12.78	34.00			17.20	67.80				
12.94	35.20			17.50	68.00				
13.10	36.50			17.90	68.10				
13.26	37.20			18.20	68.30				
13.42	38.00			18.90	50/0*				
13.58	39.40			19.20	DCP REF				
13.74	41.00			19.70					
13.90	43.00			20.10					
14.10	45.00			20.50					
14.30	47.00			21.20					
14.50	49.30			21.80					
14.70	51.20			22.40					
14.90	53.00			23.10					
15.10	55.00			23.60					
15.30	57.00			24.20					
15.50	59.00			24.80					
15.70	61.20			25.90					
15.90	62.80			26.50					
16.16	64.40			27.20					
16.42	66.50			28.10					
16.68	68.20			28.90					
16.94	69.80			29.60					
17.20	71.90			30.20					
17.46	74.40			30.60					
17.72	77.00			30.80					
17.98	79.30			32.20					
18.24	81.90			33.40					
18.50	84.20			34.20					
19.00	85.70			34.90					
19.10	87.90			35.50					

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET							WBS NO.	PROJECT TIP I.D.	ROUTE
							34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)
							COUNTY	FIELD PROFESSIONAL	FIELD CREW
Haywood							M. Brewer	C. Odom/D. Underwood	
Test Location				Date Run	Test Location			Date Run	
C-3 L1_EB Sta. 48+86 EB OSS 8.0 FT RT FW				9/27-10/1, 10/11-10/13	C-4 L1_EB Sta. 53+86 EB OSS 2.0 FT RT FW			9/27-10/1, 10/11-10/13	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill		
DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	10.0 ft Cut		
0.10	46.40			1.30	42.30	73.50			
1.50	47.00			2.70	43.00	74.50			
3.00	47.90			3.60	43.60	75.00			
4.60	48.20			4.40	43.80	75.80			
5.90	49.10			5.40	44.10	76.30			
7.40	50.00			6.20	44.70	77.00			
9.10	51.50			7.20	45.30	77.80			
10.60	51.90			7.90	45.50	78.60			
12.40	52.30			8.70	45.90	79.20			
13.60	52.60			9.40	46.20	79.90			
15.10	53.70			10.50	46.40	80.70			
16.40	54.80			11.20	46.80	81.40			
17.30	55.40			12.00	47.10	81.90			
17.70	56.20			12.80	47.70	82.30			
18.30	57.10			13.60	48.00	83.30			
18.70	57.70			14.60	48.50	84.10			
19.10	58.40			15.40	48.80	84.60			
19.30	59.70			16.20	49.50	85.10			
19.90	60.10			17.20	49.70	85.70			
20.30	61.10			17.90	50.20	86.20			
20.70	61.90			18.10	50.60	86.80			
20.90	62.80			18.60	51.00	87.60			
21.30	63.70			19.10	51.50	88.00			
21.80	64.40			19.60	52.10	88.40			
21.90	65.40			20.20	52.50	89.00			
22.70	66.30			20.80	52.90	89.10			
23.40	67.20			21.00	53.20	89.50			
23.60	68.20			21.60	53.50	90.10			
23.90	69.30			22.10	54.00	90.70			
24.10	70.10			22.50	54.40	91.30			
24.60	71.10			23.00	54.80	91.80			
26.00	72.30			23.50	55.30	92.30			
27.00	73.30			24.20	55.70	92.90			
28.70	74.40			24.50	56.20	93.40			
29.80	75.70			24.90	56.50	94.00			
30.80	76.90			25.40	57.00	94.40			
31.40	77.80			25.80	57.50	95.00			
32.40	79.00			26.50	57.80	95.50			
33.40	80.30			27.00	58.30	96.00			
34.20	81.10			27.60	58.90	96.90			
34.70	81.70			28.30	59.60	97.50			
35.20	82.40			28.90	59.80	98.20			
35.60	83.00			29.40	60.10	98.60			
36.30	83.60			30.00	60.80	99.20			
36.70	84.40			30.80	61.00	99.70			
37.20	84.90			31.40	61.60	100.10			
37.70	85.40			32.10	61.90	100.60			
38.20	86.40			32.80	62.70	100.90			
38.40	87.30			33.30	63.00	101.30			
38.90	88.20			34.30	63.80	102.00			
39.30	89.50			34.80	64.30	102.40			
39.60	90.70			35.20	64.80	102.90			
40.00	91.60			36.00	65.00	103.40			
40.50	92.60			36.50	65.40	104.00			
40.70	93.70			37.20	66.00				
41.30	94.60			37.80	66.60				
41.90	95.80			38.20	67.30				
42.50	96.60			38.70	67.90				
42.90	97.50			39.20	68.60				
43.60	98.30			39.80	69.30				
44.20	99.20			40.10	69.90				
44.70	100.00			40.70	70.60				
45.30	100.90			41.00	71.30				
45.60	101.80			41.50	72.10				
46.00	102.50			41.80	72.80				

I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



SOIL TEST RESULTS

SAMPLE NO.	ALIGNMENT	LANE	OFFSET	STATION	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
									C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-1	L1_EB	EB OSS	10 RT FW	44+07	2.5-5.0	A-1-b	23	NP	37.4%	34.0%	22.6%	6.0%	67.0%	48.4%	23.6%	7.0%	ND
S-3	L1_EB	EB OSS	8.0 RT FW	48+86	2.5-5.0	A-2-4	35	NP	41.2%	26.5%	24.3%	8.0%	67.0%	46.6%	25.4%	12.7%	ND
S-4	L1_EB	EB OSS	2.0 RT FW	53+86	2.0-5.0	A-4(0)	34	NP	27.8%	37.1%	23.1%	12.0%	94.8%	77.9%	39.8%	22.8%	ND
S-5	L1_EB	EB OSS	5.4 RT FW	59+28	1.3-2.5	A-4(0)	32	3	26.6%	31.3%	26.1%	16.1%	80.1%	66.7%	38.3%	15.0%	ND
S-6	L1_EB	EB ISS	2.0 LT FY	62+34	0.9-5.0	A-7-5(1)	48	12	28.9%	34.0%	23.0%	14.1%	88.5%	73.4%	38.1%	20.9%	ND
S-9	L1_EB	EB ISS	1.5 LT FY	62+48	1.0-1.5	A-2-4	28	3	40.4%	32.2%	17.4%	10.0%	79.8%	58.0%	26.1%	3.3%	ND

*FROM WHITE LINE (FW)

*FROM YELLOW LINE (FY)

Prepared in the Office of:

F&ME CONSULTANTS, INC.
COLUMBIA, SOUTH CAROLINA
NCDOT LAB CERT. NO. 132-0212

PAVEMENT INVESTIGATION DATA SHEET

Project:	34165.1.6
TIP:	I-2513AA/AB

Route:	I-26 from I-40 to SR 3548 (Haywood Road)
County:	Buncombe

Date Performed:	9/27-10/1 & 10/11-10/13 (6 Nights)
Field Personnel:	M. Brewer, D. Underwood, C. Odom

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(in)	Gross to Top of Soil	Thickness (in)				Pavement Layering	SG					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder				Asphalt	ABC/STBC	Shoulder Drain Drainage Sand CSS (Chemical)	Concrete		Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)		Northing	Easting
C-10 L1_WB Sta. 44+64 WB OSL	Cut 20.0	12.0 OSL	12.5 PS	2.2 LT FW	C	19.00	4.25	5.25 STBC	-	9.50	Asphalt Concrete STBC/SG	1.6-5.0: RES - Brown-Red, Fine to Coarse Sandy SILT, trace mica	S-10	A-4	M	5	No Observed Distress	673,574	927,691
C-11 L1_WB Sta. 44+64 WB OSS	Cut 20.0	12.0 OSL	12.5 PS	6.0 RT FW	C	24.00	24.00	-	-	-	Asphalt SG	2.0-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-11	A-4	M	5	No Observed Distress	673,578	927,698
C-12 L1_WB Sta. 49+23 WB ISS	Cut 5.0	11.0 ISL	3.5 PS	1.8 LT FY	C	16.00	5.75	6.25 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.3-5.0: RES - Brown, Silty Fine to Coarse SAND, trace mica	S-12	A-2-4	M	5	Moderate to High Severity Longitudinal and Transverse Cracking at joints (Reflective) Approx. 12 to 18-inch pothole at transverse joint at ISL/OSL	673,951	927,425
C-15 L1_WB Sta. 54+78 WB ISS	Cut 20.0	11.0 ISL	3.5 PS	2.4 LT FY	C	15.50	5.75	5.75 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.3-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-15	A-4	M	5	Moderate to High Severity Longitudinal and Transverse Cracking at joints (Reflective) No Observed Distress (ISS)	674,435	927,152
C-16 L1_WB Sta. 54+79 WB ISL	Cut 20.0	11.0 ISL	3.5 PS	6.5 RT FY	C	19.00	2.25	7.50 STBC	-	9.25	Asphalt Concrete STBC/SG	1.7-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-16	A-4	M	5	Moderate to High Severity Longitudinal and Transverse Cracking at joints (Reflective)	674,440	927,160
C-17 L1_WB Sta. 54+79 WB OSL	Cut 20.0	12.8 OSL	10.0 PS	3.4 LT FW	C	18.00	2.50	5.75 STBC	-	9.75	Asphalt Concrete STBC/SG	1.5-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-17	A-4	M	5	Low to Moderate Severity Transverse and Longitudinal Cracking at joints (Reflective) Low to Moderate Severity Longitudinal Cracking (ISWP - OSL)	674,452	927,181
C-18 L1_WB Sta. 54+80 WB OSS	Cut 20.0	12.8 OSL	10.0 PS	5.5 RT FW	C	14.00	5.50	4.50 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.2-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-18	A-4	M	5	Low to Moderate Severity Transverse and Longitudinal Cracking at joints (Reflective) Low to Moderate Severity Longitudinal Cracking (ISWP - OSL) No Observed Distress (OSS)	674,457	927,189
C-20 L1_WB Sta. 59+80 WB OSS	Cut 20.0	12.0 OSL	9.8 PS	1.8 RT FW	C	16.00	6.00	6.00 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.3-5.0: RES - Brown-Gray, Silty Fine to Coarse SAND, trace mica	S-20	A-2-4	M	5	Low to Moderate Severity Transverse and Longitudinal Cracking at joints (Reflective) Moderate Severity Ravelling at OSML, No Observed Distress (OSS)	674,898	926,953
C-25 L1_WB Sta. 65+83 WB ISS	Cut 5.0	11.0 ISL	3.5 PS	2.3 LT FY	C	16.00	6.25	5.75 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.3-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-25	A-4	M	5	Low Severity Transverse Cracking, Low Severity Edge Cracking (Reflective)	675,457	926,729
C-26 L1_WB Sta. 65+83 WB OSL	Fill 5.0	11.0 OSL	9.0 PS	1.9 LT FW	C	18.50	3.00	6.50 STBC	-	9.00	Asphalt Concrete STBC/SG	1.5-5.0: RE - Brown-Red, Fine to Coarse Sandy, Clayey SILT	S-26	A-6	M	5	Low Severity Transverse Cracking, Low Severity Edge Cracking (Reflective)	675,462	926,752
C-27 L1_WB Sta. 65+83 WB OSS	Fill 5.0	11.0 OSL	9.0 PS	5.2 RT FW	C	15.00	4.75	6.25 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-27	A-4	M	5	Low Severity Transverse Cracking, Low Severity Edge Cracking (Reflective)	675,463	926,759

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

Prepared by: DMB
Reviewed by: REK

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-10 L1_WB Sta. 44+64 WB OSL 2.2 FT LT FW				9/27-10/1, 10/11-10/13	C-11 L1_WB Sta. 44+64 WB OSS 6.0 FT RT FW				9/27-10/1, 10/11-10/13
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		STBC	20.0 ft Cut	DCP	Cumulative cm per blow		Subgrade (A-4)	20.0 ft Cut
0.60	82.90	139.14			2.50	90.00			
2.00	84.10	139.30			3.70	90.40			
2.80	86.30				5.10	90.68			
3.30	87.90				6.40	90.96			
4.00	89.70				7.40	91.24			
4.80	91.40				8.40	91.52			
5.00	93.40				9.50	91.80			
5.80	94.90				10.10	92.08			
6.30	96.80				11.10	92.36			
7.20	99.10				12.40	92.64			
7.80	101.00				13.50	92.92			
8.40	102.90				14.60	93.20			
9.10	104.70				16.10	93.29			
10.00	107.00				17.60	93.38			
11.20	109.30				19.30	93.47			
12.20	111.60				20.90	93.56			
13.20	113.60				23.00	93.65			
14.60	115.80				24.90	93.74			
15.30	118.10				26.70	93.83			
16.70	120.40				28.60	93.92			
18.20	121.90				30.40	94.01			
19.60	124.50				32.60	94.10			
20.80	126.20				34.60	94.15			
22.20	127.30				36.40	94.20			
23.50	128.60				37.90	94.25			
24.60	130.10				39.40	94.30			
25.60	132.30				40.80	94.35			
26.80	134.20				42.10	94.40			
27.80	135.50				43.40	94.45			
29.10	135.90				45.20	94.50			
30.50	136.00				47.00	94.55			
31.80	136.10				49.00	94.60			
33.10	136.20				51.20	94.65			
34.30	136.30				53.50	94.70			
34.90	136.40				55.10	94.75			
35.80	136.50				56.30	94.80			
36.60	136.60				57.40	94.85			
37.40	136.70				58.80	94.90			
38.40	136.80				60.40	94.95			
39.60	136.90				62.10	95.00			
40.50	137.00				63.70	95.05			
41.80	137.10				65.40	95.10			
43.10	137.17				67.10	95.11			
44.50	137.24				69.20	95.12			
45.80	137.31				70.90	95.13			
47.00	137.38				73.00	95.14			
48.60	137.45				74.60	95.15			
49.80	137.52				75.90	95.16			
51.00	137.59				76.80	95.17			
52.50	137.66				77.60	95.18			
54.20	137.73				79.60	95.19			
56.00	137.80				80.60	95.20			
57.30	137.87				81.40	50/2*			
58.60	137.94				82.10	DCP REF			
60.40	138.01				82.90				
62.40	138.08				83.60				
64.10	138.15				84.50				
65.70	138.22				85.40				
67.90	138.29				86.40				
70.30	138.36				87.40				
72.10	138.43				88.10				
75.10	138.50				88.70				
77.30	138.66				89.20				
79.20	138.82				89.50				
81.10	138.98				89.80				

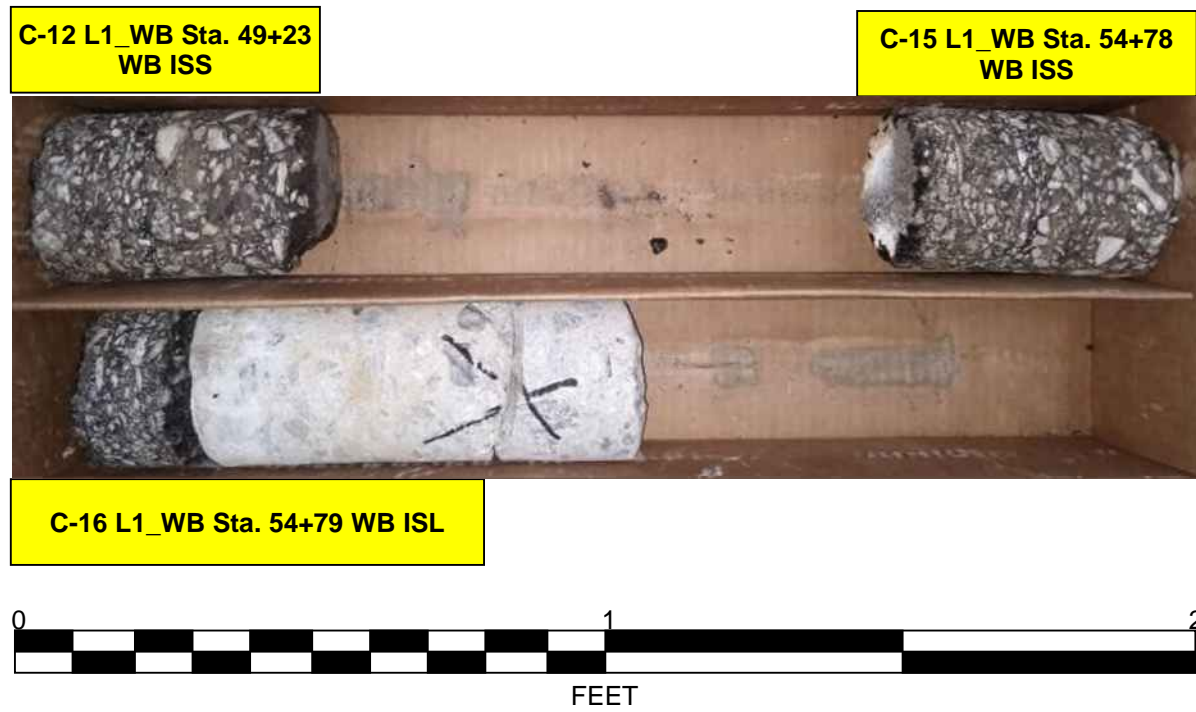
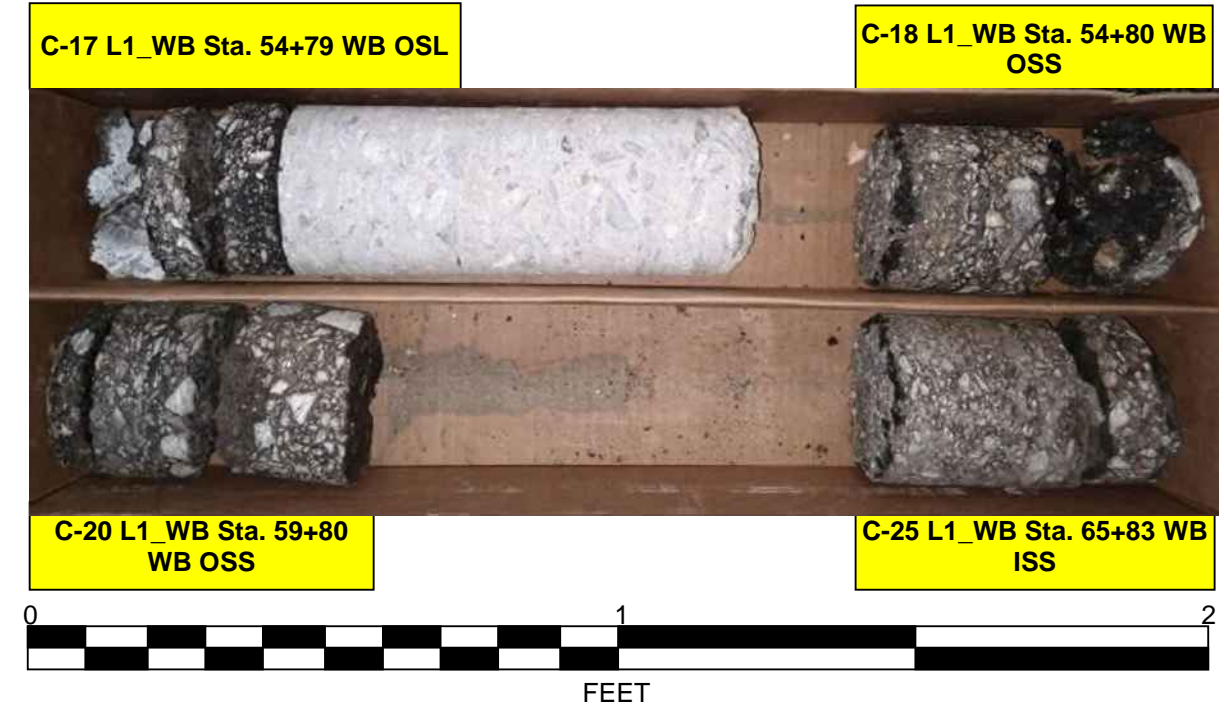
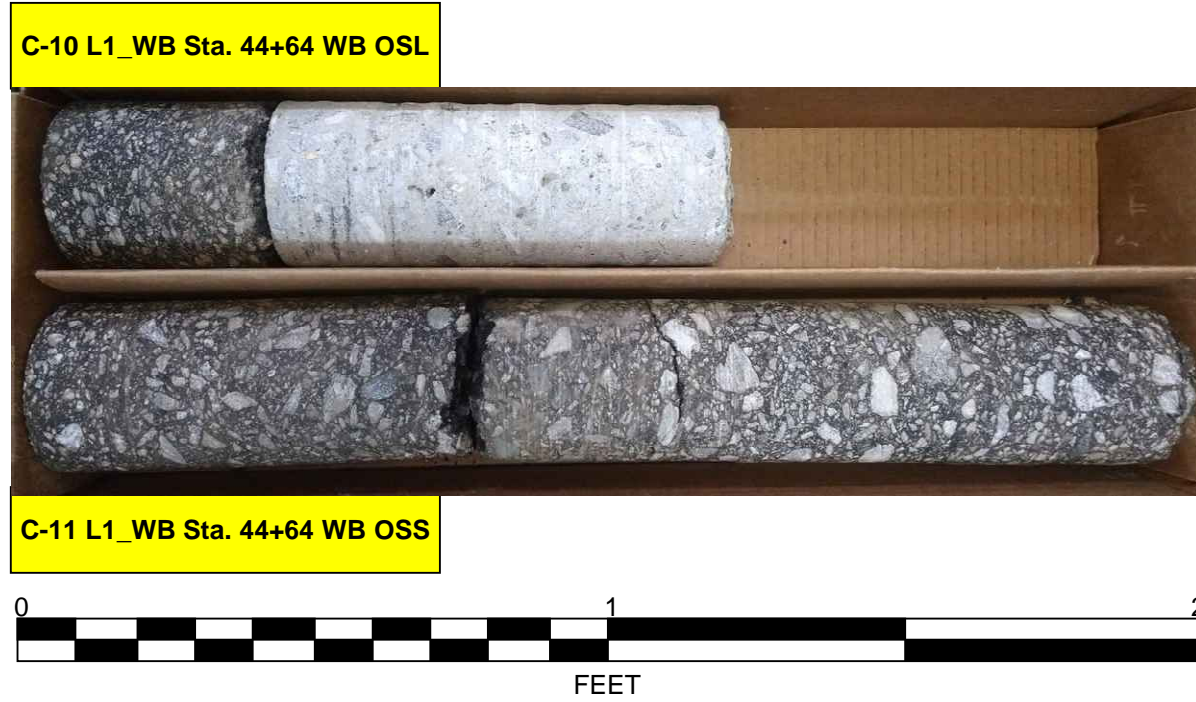
DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-12 L1_WB Sta. 49+23 WB ISS 1.8 FT LT FY				9/27-10/1, 10/11-10/13	C-15 L1_WB Sta. 54+78 WB ISS 2.4 FT LT FY				9/27-10/1, 10/11-10/13
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		STBC	5.0 ft Cut	DCP	Cumulative cm per blow		STBC	20.0 ft Cut
0.80	51.30				0.60	39.30	61.30	99.80	
1.20	51.40				1.20	39.70	61.90	100.40	
2.00	51.70				2.00	39.90	62.50	100.80	
2.50	51.90				2.20	40.30	63.20	101.20	
2.90	52.10				3.40	40.70	64.00	101.70	
3.80	52.21				4.00	40.96	64.70	102.20	
4.50	52.32				4.50	41.22	64.90	102.70	
4.90	52.43				5.00	41.48	66.20	103.20	
5.50	52.54				5.60	41.74	66.40	103.70	
6.00	52.65				6.10	42.00	67.00	104.20	
6.20	52.76				6.90	42.20	67.90	104.70	
7.10	52.87				7.80	42.40	68.50	104.90	
7.90	52.98				8.20	42.60	69.00	106.00	
8.40	53.09				9.40	42.80	70.30	106.30	
9.10	53.20				10.30	43.00	70.80	107.00	
9.40	53.21				10.90	43.28	71.30	107.40	
10.10	53.21				11.90	43.56	71.80	107.90	
10.90	53.22				12.70	43.84	72.30	109.10	
11.10	53.22				13.30	44.12	72.90	109.70	
11.60	53.23				14.60	44.40	73.50	110.20	
12.70	53.23				15.60	44.70	74.10	110.70	
13.40	53.24				16.50	45.00	74.60	111.30	
13.90	53.24				17.50	45.30	75.20	112.00	
15.00	53.25				18.40	45.60	75.90	112.60	
15.90	53.25				19.30	45.90	76.60	113.30	
16.90	53.26				20.20	46.20	77.30	113.90	
18.00	53.26				20.70	46.50	77.80	114.10	
19.20	53.27				20.90	46.80	78.40	115.10	
20.60	53.27				21.30	47.10	78.90	115.60	
21.90	53.28				22.20	47.40	79.40	115.90	
23.10	53.28				22.80	47.70	80.00	116.30	
24.00	53.29				23.30	48.00	80.60	116.90	
25.50	53.29				23.70	48.30	81.30	117.80	
26.90	53.30				24.40	48.60	81.70	118.60	
28.30	53.30				24.60	48.90	82.50	119.30	
30.30	53.31				25.10	49.26	82.90	120.10	
31.90	53.31				25.60	49.62	83.50	121.00	
33.70	53.32				26.00	49.98	84.20	122.00	
35.20	53.32				26.60	50.34	84.80	122.80	
36.90	53.33				27.00	50.70	85.20	123.50	
38.40	53.33				27.40	51.02	85.60	124.40	
39.80	53.34				27.70	51.34	86.00	125.10	
41.00	53.34				27.90	51.66	86.50	126.20	
41.90	53.35				28.50	51.98	86.70	128.20	
42.20	53.35				29.00	52.30	87.70	129.50	
43.40	53.36				29.30	52.68	88.20	130.20	
43.70	53.36				29.70	53.06	88.80	130.60	
44.40	53.37				30.30	53.44	89.30	131.20	
44.70	53.37				30.80	53.82	89.60	132.00	
45.60	53.38				31.30	54.20	90.00	132.80	
45.70	53.38				32.00	54.50	90.60	133.20	
46.20	53.39				32.50	54.80	91.00	134.90	
46.60	53.39				33.10	55.40	91.50	135.80	
47.00	53.40				33.80	55.80	92.70	136.50	
47.40	53.40				34.20	56.30	93.30		
47.90	50/0.5*				34.90	56.80	93.90		
48.20	DCP REF				35.40	57.20	94.40		
48.60					35.90	57.40	95.10		
48.90					36.50	58.00	95.70		
49.30					37.10	58.40	96.40		
49.70					37.30	58.80	97.00		
50.00					37.70	59.40	97.50		
50.30					38.10	60.10	98.30		
50.60					38.40	60.50	98.90		
50.90					38.90	61.10	99.30		

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET											
WBS NO.			PROJECT TIP I.D.				ROUTE				
34165.1.6			I-2513AA/AB				I-26 from I-40 to SR 3548 (Haywood Road)				
COUNTY			FIELD PROFESSIONAL				FIELD CREW				
Haywood			M. Brewer				C. Odom/D. Underwood				
Test Location			Test Location				Date Run				
C-16 L1_WB Sta. 54+79 WB ISL 6.5 FT RT FY			C-17 L1_WB Sta. 54+79 WB OSL 3.4 FT LT FW				9/27-10/1, 10/11-10/13				
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut
3.40	26.66			0.80	35.52	57.50	92.20	117.10			
6.10	26.84			1.30	35.76	58.30	92.60	117.60			
7.50	27.02			1.70	36.00	58.90	92.70	118.20			
8.70	27.20			2.40	36.18	59.60	93.20	118.70			
9.40	27.36			2.80	36.36	60.00	93.30	119.20			
10.40	27.52			3.00	36.54	60.50	93.70	119.80			
10.80	27.68			3.50	36.72	61.30	94.30	120.10			
11.60	27.84			4.20	36.90	61.70	94.60	120.60			
12.20	28.00			4.80	37.06	62.30	94.80	120.90			
12.80	28.10			5.50	37.22	63.10	95.00	121.20			
13.40	28.20			6.80	37.38	63.70	95.10	121.70			
13.90	28.30			7.80	37.54	64.30	95.40	122.40			
14.40	28.40			8.90	37.70	64.90	95.80	122.80			
14.90	28.50			10.30	37.90	65.40	96.20				
15.50	28.64			11.60	38.10	66.20	96.40				
16.00	28.78			12.60	38.30	66.70	96.60				
16.30	28.92			13.60	38.50	67.30	97.10				
16.60	29.06			14.90	38.70	68.00	97.60				
16.90	29.20			16.40	38.90	68.40	98.00				
17.40	29.26			17.90	39.10	69.20	98.40				
17.70	29.32			19.50	39.30	69.80	98.70				
18.10	29.38			20.80	39.50	70.30	99.00				
18.30	29.44			21.60	39.70	71.20	99.20				
18.40	29.50			22.30	39.90	71.50	99.70				
18.70	29.56			22.80	40.40	72.10	100.10				
19.00	29.62			23.00	40.60	72.60	100.30				
19.30	29.68			23.50	41.00	73.20	100.70				
19.70	29.74			24.20	41.30	73.70	101.00				
20.10	29.80			24.40	41.60	74.30	101.26				
20.40	29.90			24.80	41.80	74.80	101.52				
20.60	30.00			25.40	41.90	75.50	101.78				
20.90	30.10			25.80	42.30	76.20	102.04				
21.00	30.20			26.20	42.60	76.80	102.30				
21.20	30.30			26.50	42.70	77.10	102.70				
21.30	30.40			26.90	43.00	78.20	103.20				
21.40	30.50			27.40	43.22	78.90	103.40				
21.60	30.60			27.70	43.44	79.20	103.90				
21.70	30.70			28.00	43.66	80.30	104.20				
21.90	30.80			28.50	43.88	81.00	104.70				
22.00	30.93			28.90	44.10	81.60	104.90				
22.20	31.06			29.10	44.54	82.10	105.30				
22.30	31.19			29.70	44.98	82.70	105.60				
22.40	31.32			30.00	45.42	83.40	105.90				
22.50	31.45			30.40	45.86	83.90	106.40				
22.70	31.58			30.50	46.30	84.10	106.80				
23.00	31.71			30.80	46.64	84.40	107.20				
23.10	31.84			30.90	46.98	85.10	107.70				
23.20	31.97			31.30	47.32	85.40	108.00				
23.40	32.10			31.54	47.66	85.80	108.60				
23.50	50/2.4*			31.78	48.00	86.40	108.90				
23.70	DCP REF			32.02	48.40	86.80	109.50				
23.80				32.26	49.00	87.10	109.70				
23.90				32.50	49.50	87.60	110.30				
24.00				32.70	50.00	88.00	110.70				
24.30				32.90	50.50	88.60	111.30				
24.50				33.20	51.00	88.90	111.70				
24.70				33.50	51.60	89.30	112.30				
24.80				33.70	52.10	89.70	112.80				
24.90				33.80	52.80	90.00	113.30				
25.30				34.10	53.40	90.50	113.80				
25.40				34.30	54.30	90.60	114.30				
25.70				34.60	54.90	91.10	114.90				
25.80				34.80	55.40	91.20	115.40				
26.30				35.04	56.10	91.70	116.10				
26.48				35.28	56.80	92.00	116.60				

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET											
WBS NO.			PROJECT TIP I.D.				ROUTE				
34165.1.6			I-2513AA/AB				I-26 from I-40 to SR 3548 (Haywood Road)				
COUNTY			FIELD PROFESSIONAL				FIELD CREW				
Haywood			M. Brewer				C. Odom/D. Underwood				
Test Location			Test Location				Date Run				
C-18 L1_WB Sta. 54+80 WB OSS 5.5 FT RT FW			C-20 L1_WB Sta. 59+80 WB OSS 1.8 FT RT FW				9/27-10/1, 10/11-10/13				
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut
0.90	52.50	104.70		1.30	44.20						
1.40	53.10	106.40		1.80	44.25						
1.90	53.50	107.90		2.30	44.30						
2.60	53.90	109.40		2.90	44.35						
3.40	54.20	110.70		3.30	44.40						
3.90	54.90	112.10		3.60	44.45						
4.40	55.40	113.60		4.10	44.50						
4.90	56.10	115.00		4.50	44.55						
5.50	56.80	116.40		4.80	44.60						
5.80	57.30	117.80		5.20	44.68						
6.50	57.70	119.20		5.60	44.76						
7.10	58.30	120.20		6.00	44.84						
7.50	58.60	121.40		7.10	44.92						
8.20	58.80	122.40		7.60	45.00						
9.10	59.20	123.70		8.10	45.08						
10.00	59.60	124.90		8.60	45.16						
10.90	59.70	126.00		8.90	45.24						
11.60	60.00	127.10		9.50	45.32						
12.60	60.40	128.40		10.20	45.40						
13.30	61.10	129.60		10.80	45.47						
14.20	61.30	130.70		11.30	45.54						
15.30	61.60	131.70		11.80	45.61						
16.50	62.10	132.90		12.40	45.68						
17.60	62.50	133.80		13.10	45.75						
19.20	63.20	134.90		13.80	45.82						
21.40	63.80	135.90		14.70	45.89						
24.10	64.50	137.10		16.50	45.96						
27.10	65.10	138.00		17.60	46.03						
29.80	65.40	138.90		18.70	46.10						
31.70	65.90	140.00		19.90	46.15						
33.30	66.30	141.00		21.50	46.20						
34.40	66.80			23.50	46.25						
35.70	67.50			26.00	46.30						
38.10	68.10			28.20	46.35						
39.10	68.40			29.90	46.40						
39.90	69.30			31.50	46.45						
40.60	69.60			33.20	46.50						
41.20	70.20			34.30	46.55						
41.70	70.90			35.30	46.60						
41.90	71.90			36.40	50/1.25*						
42.40	73.00			37.50	DCP REF						
42.90	73.80			38.20							
43.30	74.80			39.20							
43.60	75.60			40.40							
43.90	76.60			41.30							
44.50	77.80			42.00							
44.90	78.60			42.30							
45.10	79.70			42.50							
45.50	80.80			42.70							
45.90	81.90			42.80							
46.30	83.10			43.10							
46.80	84.40			43.30							
47.00	85.70			43.40							
47.60	86.80			43.50							
47.90	88.00			43.56							
48.00	89.20			43.62							
48.10	90.50			43.68							
49.10	92.20			43.74							
49.40	93.50			43.80							
50.00	95.00			43.86							
50.30	96.60			43.92							
50.50	98.30			43.98							
51.30	100.10			44.04							
51.60	101.70			44.10							
52.00	103.30			44.15							

I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



SOIL TEST RESULTS

SAMPLE NO.	ALIGNMENT	LANE	OFFSET	STATION	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
									C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-10	L1_WB	WB OSL	2.2 LT FW	44+64	1.6-5.0	A-4(0)	35	NP	25.2%	31.0%	25.7%	18.1%	83.0%	70.5%	40.8%	16.0%	ND
S-12	L1_WB	WB ISS	1.8 LT FY	49+23	1.3-5.0	A-2-4	32	NP	38.4%	34.4%	21.2%	6.0%	84.4%	63.6%	27.9%	9.4%	ND
S-15	L1_WB	WB ISS	2.4 LT FY	54+78	1.3-5.0	A-4(0)	32	5	26.2%	37.3%	26.4%	10.0%	84.5%	70.6%	37.1%	9.7%	ND
S-17	L1_WB	WB OSL	3.4 LT FW	54+79	1.5-5.0	A-4(0)	48	NP	32.0%	34.1%	23.9%	10.1%	92.4%	75.5%	37.5%	9.2%	ND
S-20	L1_WB	WB OSS	1.8 RT FW	59+80	1.3-5.0	A-2-4	27	NP	26.5%	38.6%	24.0%	11.0%	80.7%	67.9%	34.4%	11.3%	ND
S-26	L1_WB	WB OSL	1.9 LT FW	65+83	1.5-5.0	A-6(2)	36	11	28.3%	27.1%	28.5%	16.1%	85.6%	69.2%	42.6%	16.9%	ND

*FROM WHITE LINE (FW)

*FROM YELLOW LINE (FY)

Prepared in the Office of:

F&ME CONSULTANTS, INC.
COLUMBIA, SOUTH CAROLINA
NCDOT LAB CERT. NO. 132-0212

PAVEMENT INVESTIGATION DATA SHEET

Project:	34165.1.6
TIP:	I-2513AA/AB

Route:	I-26 from I-40 to SR 3548 (Haywood Road)
County:	Buncombe

Date Performed:	9/27-10/1 & 10/11-10/13 (6 Nights)
Field Personnel:	M. Brewer, D. Underwood, C. Odom

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		(ft)	(in)	Thickness (in)					Pavement Layering	SG					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder			Offset Distance (See Notes)	Crown "C" or Super "S"	Gross to Top of Soil	Asphalt	ABC/STBC		Shoulder Drain Drainage Sand CSS (Chemical)	Concrete	Description (Depth - ft)	Soil Sample Number	AASHTO Classification		Soil Moisture	Boring Depth (ft)
C-14 RPDB Sta. 11+06 WB OSS	Cut 10.0	15.5 RAMP	3.8 PS	2.3 RT FW	C	14.25	6.25	4.00 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.2-1.7: RE - Brown, Fine to Coarse Sandy SILT, trace mica 1.7-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-14 Ref-11	A-4 A-4	M M	5	Low Severity Transverse Cracking and Longitudinal Cracking (RAMP - ISWP) No Shoulder Distress	673,977	927,475
C-13 RPDB Sta. 11+07 RAMP	Cut 10.0	15.5 RAMP	3.8 PS	6.0 LT FW	C	20.00	2.75	7.75 STBC	-	9.50	Asphalt Concrete STBC/SG	1.7-3.0: RE - Brown, Silty Fine to Coarse SAND, trace mica 3.0-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-13 Ref-11	A-2.4 A-4	M M	5	Low Severity Transverse Cracking and Longitudinal Cracking (RAMP - ISWP) No Shoulder Distress	673,974	927,467
C-19 RPDB Sta. 14+83 WB ISS	Cut 20.0	11.0 ISL	3.2 PS	2.4 LT FY	C	16.50	6.50	6.00 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.4-5.0: RES - Brown-Orange, Fine to Coarse Sandy SILT, trace mica	S-19	A-4	M	5	Low to Moderate Severity Transverse and Longitudinal Cracking at joints (Reflective) Moderate Severity Ravelling at OSML, No Observed Distress (ISS)	674,875	926,905
C-21 RPDB Sta. 18+14 WB OSS	Cut 20.0	11.0 OSL	11.5 PS	5.7 RT FW	C	16.00	5.00	7.00 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.3-5.0: RES - Brown-Gray, Fine to Coarse Sandy SILT, Trace mica	S-21	A-4	M	5	Low to Moderate Severity Longitudinal and Transverse Cracking at joints (Reflective) High Severity Shoving at 3 OSL Panels, approximately 65 feet south of test location.	675,179	926,771
Bulk-4 RPDB Sta. 20+42 LT	Cut 20.0	-	-	-	-	-	-	-	-	-	-	1.0-3.0: RES - Brown-Orange, Silty F.-Cse. SAND, trace mica	Bulk-4	A-2.4	M 19%	3	Bulk Sample #4 Collected at grade near toe of existing cut slope (LT)	675,349	926,608
C-22 RPDB Sta. 20+43 WB ISS	Cut 20.0	11.0 ISL	3.5 PS	1.7 LT FY	C	17.00	5.50	7.50 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.4-5.0: RES - Brown-Orange, Fine to Coarse Sandy SILT, trace mica	S-22	A-4	M	5	Low Severity Longitudinal and Transverse Cracking at joints (Reflective) Moderate Severity Ravelling at OSL joints No Shoulder Distress	675,375	926,651
C-23 RPDB Sta. 20+44 WB OSL	Fill 5.0	11.0 OSL	12.0 PS	2.8 LT FW	C	19.00	5.50	5.00 STBC	-	8.50	Asphalt Concrete STBC/SG	1.6-5.0: RE - Brown-Red, Fine to Coarse Sandy, Clayey SILT, trace mica	S-23	A-4	M	5	Low Severity Longitudinal and Transverse Cracking at joints (Reflective) Moderate Severity Ravelling at OSL joints	675,364	926,631
C-24 RPDB Sta. 20+44 WB OSS	Fill 5.0	11.0 OSL	12.0 PS	1.4 RT FW	C	15.00	6.50	4.50 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.3-5.0: RE - Brown-Red, Fine to Coarse Sandy SILT, trace mica	S-24	A-4	M	5	Low Severity Longitudinal and Transverse Cracking at joints (Reflective) Moderate Severity Ravelling at OSL joints No Shoulder Distress	675,378	926,655
Bulk-3 RPDB Sta. 43+96	Cut 20.0	-	-	-	-	-	-	-	-	-	-	1.0-3.0: RES - Red-Orange, Silty F.-Cse. SAND, trace mica	Bulk-3	A-2.4	M 15%	3	Bulk Sample #3 Collected at grade near toe of existing cut slope (LT)	676,709	924,866
C-111 RPDB Sta. 44+30 WB OSL	Cut 20.0	11.5 OSL	11.0 PS	2.1 LT FW	S	19.00	3.00	6.75 STBC	-	9.25	Asphalt Concrete STBC/SG	1.6-5.0: RES - Red, Fine to Coarse Sandy SILT, trace mica	S-111	A-4	M	5	Low Severity Longitudinal Cracking (ISWP) Low Severity Longitudinal and Transverse Cracking at joints (Reflective) Full Depth Crack in Core (construction joint)	676,760	924,844
C-112 RPDB Sta. 44+30 WB ISL	Cut 20.0	12.0 ISL	3.0 PS	5.4 RT FY	S	17.00	2.25	5.75 STBC	-	9.00	Asphalt Concrete STBC/SG	1.4-5.0: RES - Brown-Orange, Fine to Coarse Sandy SILT, trace mica	S-112	A-4	M	5	Low Severity Longitudinal and Transverse Cracking at joints (Reflective)	676,744	924,840
C-113 RPDB Sta. 44+30 WB ISS	Cut 20.0	12.0 ISL	3.0 PS	1.7 LT FY	S	16.50	5.25	7.25 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.4-5.0: RES - Brown-Orange, Fine to Coarse Sandy SILT, trace mica	S-113	A-4	M	5	Low Severity Transverse Cracking	676,737	924,838
C-110 RPDB Sta. 44+31 WB OSS	Cut 20.0	11.5 OSL	11.0 PS	6.3 RT FW	S	18.00	7.75	6.25 STBC	4.00 SAND	-	Asphalt STBC/Sand SG	1.5-5.0: RES - Brown-Orange, Fine to Coarse Sandy SILT, trace mica	S-110	A-4	M	5	Low Severity Transverse Cracking (Very Fine)	676,769	924,846

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

Prepared by: DMB
Reviewed by: REK

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-14 RPD Sta. 11+06 WB OSS 2.3 FT RT FW				9/27-10/1, 10/11-10/13	C-13 RPD Sta. 11+07 RAMP 6.0 FT LT FW				9/27-10/1, 10/11-10/13
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		STBC	10.0 ft Cut	DCP	Cumulative cm per blow		STBC	10.0 ft Cut
1.10	64.30	89.60	121.90		0.90	43.20	86.40	100.58	
2.00	65.00	90.00	122.30		1.40	43.70	87.80	100.64	
2.70	65.40	90.10	122.60		2.00	44.30	89.20	100.70	
3.50	66.00	90.40	123.00		2.50	44.90	90.40	50/1.25'	
4.30	66.30	90.60	123.30		3.00	45.40	91.40	DCP REF	
5.10	66.90	90.70	123.70		3.60	45.80	92.50		
5.90	67.30	91.40	123.90		4.20	46.10	93.50		
6.60	67.90	91.60	124.40		4.70	46.40	94.10		
7.30	68.80	92.00	124.60		5.40	46.70	94.70		
8.00	69.00	92.20	125.00		6.30	47.20	95.20		
8.80	69.50	92.60	125.20		6.90	47.70	95.70		
9.60	70.10	93.30	125.70		7.60	48.10	96.00		
10.40	70.80	93.40	125.90		8.40	48.60	96.20		
11.30	71.40	93.70	126.20		9.40	49.20	96.50		
12.20	72.00	93.90	126.50		10.20	49.80	96.80		
13.00	72.60	94.30	126.90		11.30	50.60	96.90		
14.00	73.20	94.40	127.30		12.40	51.10	97.30		
14.90	73.60	95.00	127.70		13.60	51.80	97.60		
15.90	74.10	95.10	128.00		14.70	52.50	97.66		
16.80	74.40	95.90	128.50		16.10	53.10	97.72		
18.00	74.80	96.30	129.00		17.40	53.70	97.78		
19.20	75.10	96.50	129.40		18.90	54.40	97.84		
20.20	75.40	97.00	129.80		20.60	55.00	97.90		
21.20	75.70	97.10	129.90		22.20	55.70	97.96		
22.50	75.90	97.80	130.30		23.70	56.30	98.02		
23.60	76.30	98.10	130.40		25.00	57.00	98.08		
24.60	76.50	98.80			26.50	57.50	98.14		
25.20	76.90	99.20			27.20	58.00	98.20		
25.80	77.10	99.90			27.90	58.40	98.27		
26.30	77.50	100.40			28.20	59.00	98.33		
26.90	77.70	101.10			28.60	59.60	98.40		
27.30	78.40	101.50			29.10	60.20	98.46		
27.90	78.60	102.30			29.60	61.00	98.53		
28.70	79.00	102.60			30.00	61.60	98.59		
29.40	79.20	103.60			30.30	62.20	98.66		
30.70	79.40	103.70			30.90	62.90	98.72		
32.30	79.70	104.60			31.10	63.50	98.79		
33.60	79.90	105.20			31.20	64.40	98.85		
34.80	80.20	105.90			31.80	65.30	98.92		
36.10	80.50	106.60			32.00	65.90	98.98		
37.10	80.90	107.30			32.40	66.90	99.05		
38.10	81.00	107.80			32.50	67.70	99.11		
39.70	81.40	108.30			33.20	68.70	99.18		
41.30	81.80	108.90			33.80	69.60	99.24		
43.20	82.20	110.00			34.10	70.60	99.31		
45.20	82.60	110.80			34.30	71.60	99.37		
47.20	82.90	111.40			34.50	72.40	99.44		
49.00	83.30	111.70			34.70	73.60	99.50		
50.40	83.70	112.00			35.10	74.60	99.56		
51.60	84.20	112.90			35.60	75.60	99.62		
53.00	84.40	113.10			36.10	76.40	99.68		
54.50	84.80	113.60			36.40	76.90	99.74		
55.80	85.10	114.30			36.80	77.20	99.80		
56.90	85.40	115.10			37.00	77.80	99.86		
57.70	86.30	115.60			37.30	78.20	99.92		
58.40	86.60	116.10			37.70	78.90	99.98		
59.10	86.90	116.60			38.30	79.50	100.04		
59.70	87.30	117.10			38.70	79.80	100.10		
60.10	87.50	117.80			39.50	80.30	100.16		
60.70	87.90	118.40			40.10	80.90	100.22		
61.30	88.40	119.30			40.60	81.80	100.28		
61.80	88.60	119.90			41.10	82.60	100.34		
62.40	88.70	120.40			41.60	83.50	100.40		
63.10	89.00	120.90			42.30	84.40	100.46		
63.80	89.40	121.40			42.80	85.40	100.52		

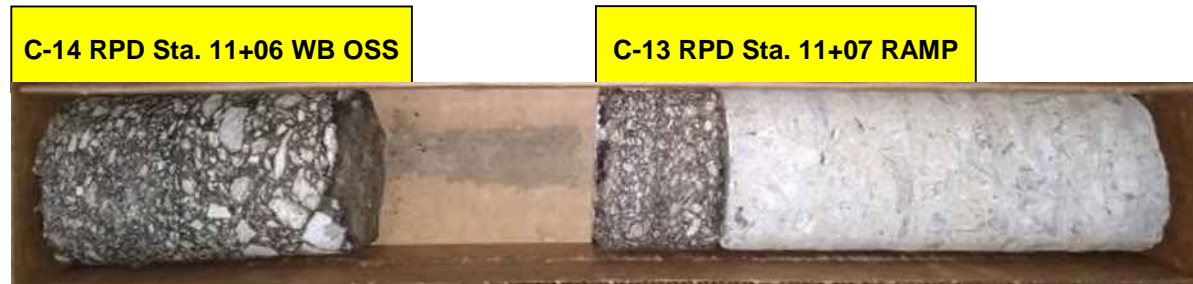
DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-19 RPDB Sta. 14+83 WB ISS 2.4 FT LT FY				9/27-10/1, 10/11-10/13	C-21 RPDB Sta. 18+14 WB OSS 5.7 FT RT FW				9/27-10/1, 10/11-10/13
Type	Test Interval		Datum	Cut/Fill	Type	Test Interval		Datum	Cut/Fill
DCP	Cumulative cm per blow		STBC	20.0 ft Cut	DCP	Cumulative cm per blow		STBC	20.0 ft Cut
1.00	90.70	117.20			1.70	76.50			
2.30	91.20	117.70			2.00	78.40			
3.40	91.70	118.20			2.80	80.00			
3.90	91.90	118.80			3.00	81.60			
5.50	92.50	119.20			3.40	83.20			
6.40	92.90	119.90			4.00	84.90			
7.30	93.40	120.30			4.40	86.30			
7.90	93.90	120.70			5.00	87.80			
9.10	94.40	121.10			5.20	89.70			
10.10	95.00	121.50			5.80	91.60			
11.20	95.70	121.80			6.40	93.20			
12.40	95.80	122.30			6.90	94.50			
13.40	96.40	122.50			7.30	95.80			
14.40	96.60	123.20			7.60	97.60			
15.60	96.90	123.50			7.90	99.30			
16.90	97.10	123.80			8.20	100.90			
17.80	97.50	124.20			8.60	102.20			
19.30	97.60	124.60			9.20	103.40			
20.80	97.80	125.00			9.90	104.70			
22.70	98.00	125.40			10.30	105.70			
24.70	98.40	125.90			10.80	106.40			
27.40	98.50	126.10			11.30	107.30			
29.40	98.90	126.60			12.00	108.20			
30.70	99.40	126.90			12.60	109.20			
32.20	99.80	127.20			13.40	109.90			
33.20	99.90	127.60			14.20	110.60			
34.40	100.30	127.90			15.00	111.80			
35.60	100.70	128.30			15.70	112.40			
37.10	101.00				16.90	113.30			
38.30	101.30				17.60	113.70			
39.80	101.70				18.90	114.30			
41.00	102.00				20.40	115.10			
42.10	102.50				22.10	115.90			
43.30	102.90				24.50	116.50			
44.00	103.20				27.00	117.30			
45.40	103.60				29.80	117.90			
46.90	103.90				32.80	118.70			
48.30	104.40				35.80	119.40			
49.30	104.60				39.10	120.40			
50.80	105.20				42.50	121.00			
52.70	105.40				45.40	121.90			
54.30	105.90				46.80	122.50			
55.40	106.30				48.40	123.40			
56.60	106.80				49.40	124.20			
58.20	107.30				50.70	125.20			
59.30	107.80				51.40	126.00			
60.70	108.10				52.70	126.90			
62.10	108.60				53.60	127.80			
63.50	109.10				54.70	128.80			
64.90	109.60				55.90	129.60			
67.10	110.10				57.20	130.60			
68.90	110.60				58.30	131.50			
71.10	111.10				58.50	132.60			
73.00	111.40				59.50	133.40			
74.30	111.60				61.10	134.30			
75.80	111.90				62.50	135.20			
77.20	112.40				64.30	136.30			
79.10	112.80				65.90	137.00			
80.90	113.30				67.30				
82.80	113.70				68.70				
84.60	114.50				69.70				
86.20	114.90				71.10				
87.50	115.50				72.20				
88.90	115.90				73.50				
89.90	116.30				74.80				

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
				Haywood	M. Brewer	C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-22 RPDB Sta. 20+43 WB ISS 1.7 FT LT FY				9/27-10/1, 10/11-10/13	C-23 RPDB Sta. 20+44 WB OSL 2.8 FT LT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	5.0 ft Fill				
1.00	42.20			1.40	65.20	103.50					
1.80	43.00			1.70	66.10	104.10					
2.60	43.50			1.90	67.00	104.60					
3.10	44.20			2.40	67.20	105.20					
3.60	45.10			2.70	67.90	105.60					
4.10	45.90			3.10	68.40	106.50					
4.50	46.70			3.40	69.10	106.80					
5.00	47.20			3.80	69.70	107.40					
5.50	48.30			4.10	70.60	108.00					
6.00	49.30			4.40	71.10	108.40					
6.50	50.20			4.90	71.70	108.60					
7.00	51.30			5.20	72.40	109.40					
7.40	52.10			5.60	73.10	110.00					
8.00	53.10			6.30	73.80	110.50					
8.40	54.10			7.10	74.50	111.10					
9.50	55.00			7.60	75.10	111.70					
10.10	56.00			8.50	75.80	112.30					
10.70	57.30			9.70	76.50	113.20					
11.20	58.90			10.80	77.10	114.00					
11.70	60.00			11.90	78.00	115.10					
12.00	60.10			13.30	78.60	115.80					
12.60	60.20			14.60	79.50	116.40					
13.10	62.10			15.90	79.80	116.80					
13.50	63.80			16.80	80.70	117.20					
14.10	64.90			18.40	81.50	117.50					
14.40	66.80			19.50	82.30	117.60					
15.00	68.40			20.40	82.80	118.00					
15.60	69.50			21.20	83.50	118.40					
16.20	70.90			22.70	84.20	118.80					
16.80	72.20			24.40	84.70	119.10					
17.50	73.50			26.20	85.00	119.90					
18.10	74.60			27.80	85.40	120.40					
18.90	75.90			28.90	85.80	120.80					
19.70	77.20			30.40	86.40	121.10					
20.40	78.50			32.20	87.30	121.60					
21.10	79.80			33.10	87.90	121.80					
21.70	81.40			34.20	88.80	122.00					
22.50	82.90			35.00	89.40	122.30					
23.20	84.60			35.70	90.40	122.60					
23.80	86.70			36.60	91.30	123.00					
24.40	88.20			37.60	91.90	123.40					
25.00	89.60			38.40	92.70	123.60					
25.60	91.10			39.50	93.10	124.00					
26.20	92.40			40.50	93.60	124.30					
27.00	93.50			41.70	94.10	124.60					
27.60	94.60			42.80	94.40	124.70					
28.10	96.20			43.90	94.90	124.80					
28.90	97.40			45.10	95.20	125.50					
29.40	98.40			46.00	95.70	126.20					
30.30	98.50			46.60	96.30	126.70					
31.00	100.10			47.60	96.70	127.30					
31.70	101.80			49.40	97.30	128.00					
32.50	103.10			50.60	97.70	128.70					
33.20	104.80			51.90	98.40	129.20					
34.20	106.60			53.30	99.10	130.00					
34.90	108.50			54.20	99.70	130.80					
35.70	110.20			55.20	100.10	131.50					
36.50	112.10			55.70	100.50	132.10					
37.10	113.70			56.60	100.70	132.90					
37.70	115.30			58.60	101.20	133.20					
38.50	117.30			60.10	101.50						
39.30	119.40			61.30	101.90						
39.90				62.40	102.20						
40.80				63.40	102.60						
41.60				64.70	103.20						

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
				Haywood	M. Brewer	C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-24 RPDB Sta. 20+44 WB OSS 1.4 FT RT FW				9/27-10/1, 10/11-10/13	C-111 RPDB Sta. 44+30 WB OSL 2.1 FT LT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	5.0 ft Fill	DCP	Cumulative cm per blow	STBC	20.0 ft Cut				
1.90	27.70	83.80	117.60	1.10	95.60						
2.00	28.40	84.40	118.10	1.80	98.30						
2.40	28.80	84.90	118.60	2.30	100.30						
2.70	29.20	85.50	119.00	2.80	102.00						
3.10	29.60	86.10	119.40	3.20	103.60						
3.40	30.10	86.60	119.70	3.70	105.60						
3.50	30.60	87.10	120.00	4.00	108.00						
3.90	31.10	88.20	120.50	4.40	110.40						
4.30	31.70	88.60	120.90	4.90	113.30						
4.60	32.10	89.10	121.20	5.40	116.50						
4.90	32.30	89.60	121.60	5.90	118.10						
5.20	32.80	89.90	122.10	6.50							
5.40	33.20	90.40	122.50	7.10							
5.60	33.90	90.80	122.90	7.50							
5.90	34.60	91.30	123.40	8.10							
6.20	35.10	91.80	123.80	8.60							
6.40	35.70	92.20	124.10	9.00							
6.70	36.20	92.60	124.40	9.70							
7.00	37.20	93.10	124.80	10.70							
7.30	38.00	93.70	125.20	11.70							
7.60	38.90	94.20	125.50	12.70							
8.10	39.70	94.80	125.90	14.00							
8.40	40.50	95.40	126.40	15.20							
8.70	41.50	96.10	126.60	16.50							
8.80	42.40	96.60	127.20	17.80							
9.20	43.50	97.40	127.80	19.20							
9.40	45.60	98.10	128.30	20.60							
9.80	46.80	98.80	128.80	22.20							
10.20	47.90	99.50	129.30	23.90							
10.60	49.10	100.20	129.90	25.50							
11.00	50.60	100.80	130.00	27.60							
11.30	52.60	101.60	131.10	29.60							
11.60	54.90	102.00	132.10	31.30							
12.10	56.90	102.90		33.20							
12.50	58.30	103.70		34.90							
12.90	59.70	104.50		36.80							
13.30	61.30	105.30		38.90							
14.00	62.50	105.90		39.40							
14.30	63.70	106.70		41.10							
14.80	64.70	107.30		43.20							
15.30	65.90	108.10		45.10							
15.80	67.00	108.70		47.10							
16.20	68.10	109.70		49.20							
16.90	68.90	110.20		51.80							
17.40	69.80	110.80		53.90							
17.90	70.40	110.90		55.60							
18.30	71.10	111.20		56.90							
18.90	71.90	111.40		58.30							
19.00	72.70	111.80		59.60							
20.10	73.40	112.00		61.30							
20.60	74.10	112.30		63.50							
21.30	74.80	112.60		65.50							
21.70	75.40	112.80		67.60							
22.30	76.00	113.00		68.60							
22.60	76.70	113.30		70.20							
23.20	77.30	113.50		72.40							
23.60	77.90	113.90		75.20							
24.10	78.50	114.20		77.80							
24.60	79.20	114.60		80.50							
25.00	79.90	114.90		82.60							
25.30	80.00	115.40		84.60							
25.90	81.30	115.80		86.60							
26.40	81.90	116.20		88.70							
26.90	82.60	116.80		90.50							
27.20	83.10	117.20		93.00							

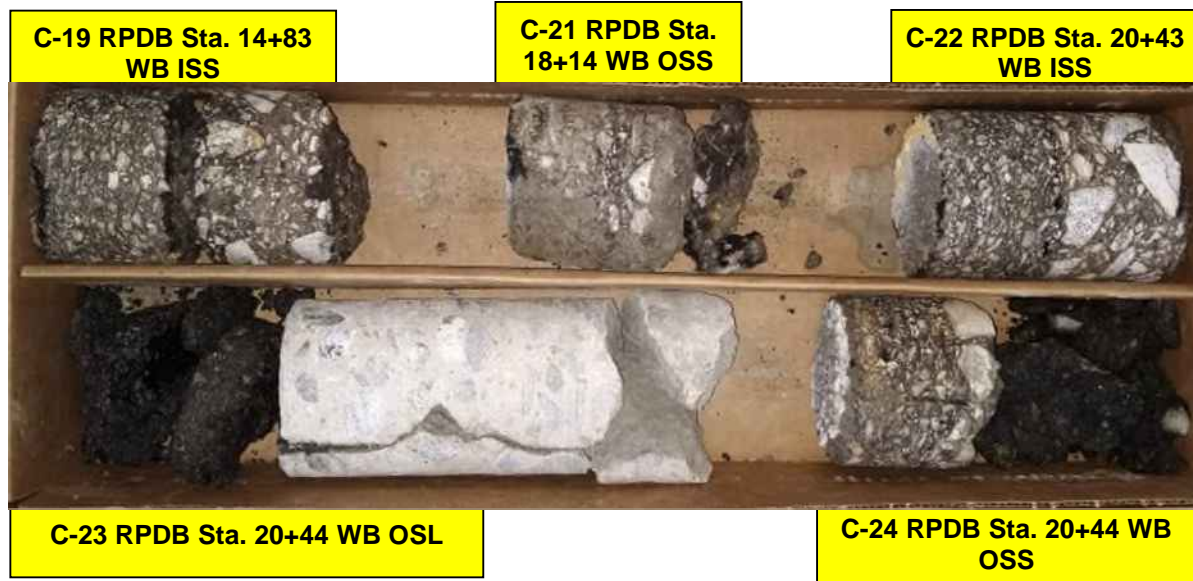
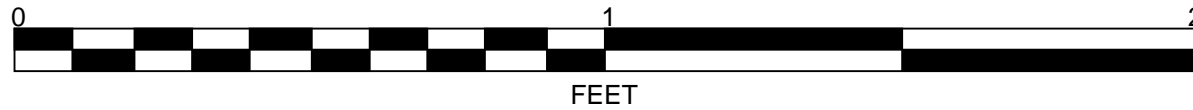
I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



C-14 RPD Sta. 11+06 WB OSS

C-13 RPD Sta. 11+07 RAMP



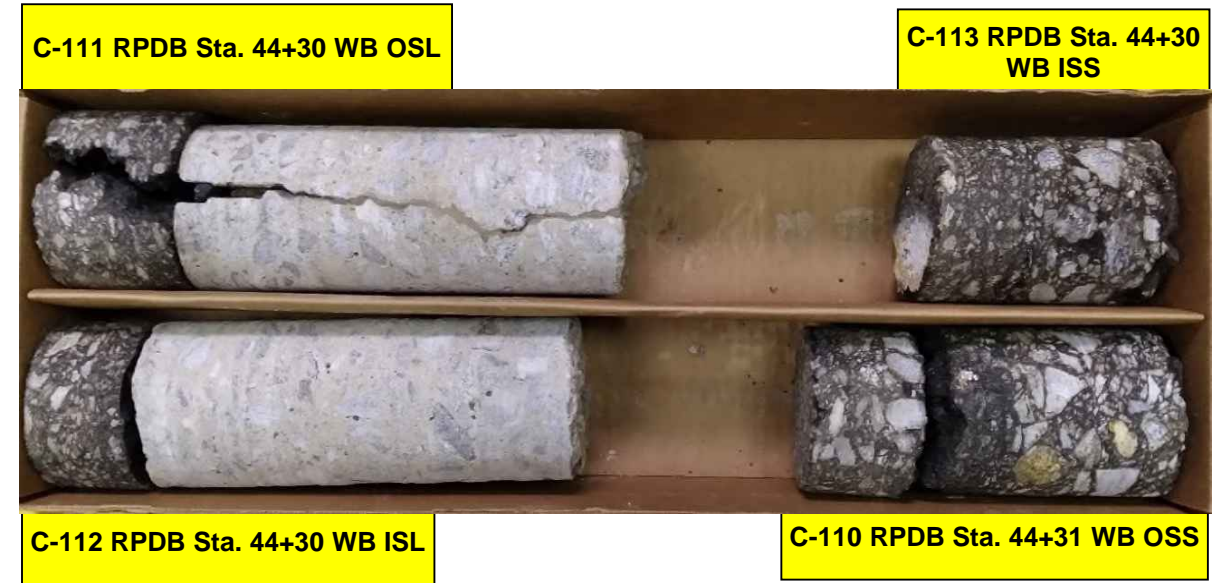
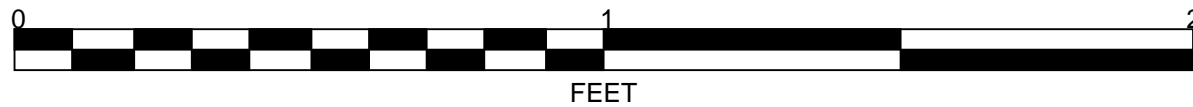
C-19 RPDB Sta. 14+83
WB ISS

C-21 RPDB Sta. 18+14
WB OSS

C-22 RPDB Sta. 20+43
WB ISS

C-23 RPDB Sta. 20+44 WB OSL

C-24 RPDB Sta. 20+44 WB
OSS

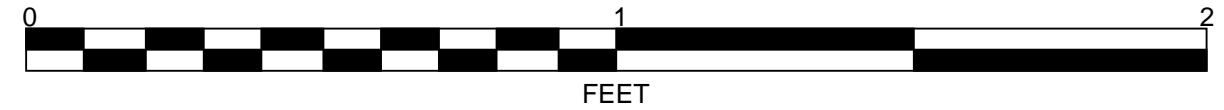


C-111 RPDB Sta. 44+30 WB OSL

C-113 RPDB Sta. 44+30
WB ISS

C-112 RPDB Sta. 44+30 WB ISL

C-110 RPDB Sta. 44+31 WB OSS



SOIL TEST RESULTS

SAMPLE NO.	ALIGNMENT	LANE	OFFSET	STATION	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
									C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-13	RPD	RAMP	6.0 LT FW	11+07	1.7-3.0	A-2-4	35	NP	30.3%	43.1%	20.6%	6.0%	88.5%	72.7%	30.5%	6.8%	ND
S-19	RPDB	WB ISS	2.4 LT FY	14+83	1.4-5.0	A-4(0)	35	NP	27.9%	29.8%	23.0%	19.3%	86.9%	70.4%	42.6%	12.8%	ND
S-21	RPDB	WB OSS	5.7 RT FW	18+14	1.3-5.0	A-4(0)	34	NP	33.2%	30.3%	23.6%	12.9%	88.7%	68.2%	37.6%	14.0%	ND
S-23	RPDB	WB OSL	2.8 LT FW	20+44	1.6-5.0	A-4(1)	36	9	27.2%	28.0%	21.7%	23.1%	83.3%	68.1%	41.9%	15.3%	ND
S-112	RPDB	WB ISL	5.4 RT FY	44+30	1.4-5.0	A-4(0)	33	NP	21.8%	31.4%	18.7%	28.1%	87.5%	76.0%	45.6%	14.4%	ND
S-110	RPDB	WB OSS	6.3 RT FW	44+31	1.5-5.0	A-4(0)	33	4	20.4%	35.0%	24.5%	20.1%	80.5%	72.1%	40.3%	16.4%	ND

*FROM WHITE LINE (FW)

*FROM YELLOW LINE (FY)

Prepared in the Office of:

F&ME CONSULTANTS, INC.
COLUMBIA, SOUTH CAROLINA
NCDOT LAB CERT. NO. 132-0212

PAVEMENT INVESTIGATION DATA SHEET

Project:	34165.1.6
TIP:	I-2513AA/AB

Route:	I-26 from I-40 to SR 3548 (Haywood Road)
County:	Buncombe

Date Performed:	9/27-10/1 & 10/11-10/13 (6 Nights)
Field Personnel:	M. Brewer, D. Underwood, C. Odom

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Pavement Layering	SG					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder				Gross to Top of Soil	Asphalt	ABC/STBC	Shoulder Drain Drainage Sand CSS (Chemical)	Concrete		Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)		Northing	Easting
C-28 Y Sta. 19+19 EB OSS	Cut 15.0	11.5 OSL	12.0 PS Concrete Exp. Gutter	4.1 RT FW	C	35.00	18.50	12.50 STBC	4.00 SAND	-	Aphalt STBC/Sand SG	2.9-5.0: RES - Red, Fine to Coarse Sandy SILT, trace mica	S-28	A-4	M	5	No Observed Pavement Distress	678,225	915,440	
C-29 Y Sta. 23+92 EB OSS	Cut 10.0	12.0 OSL	12.0 PS Concrete Exp. Gutter	3.7 RT FW	C	32.00	23.50	4.50 STBC	4.00 SAND	-	Aphalt STBC/Sand SG	2.7-5.0: RES - Brown, Silty Fine to Coarse SAND, trace mica	S-29	A-2.5	M	5	Low Severity Transverse Cracking (OSS)	678,353	915,889	
C-32 Y Sta. 30+94 EB MID-LANE	Cut 5.0	12.0	N/A	19.6 LT FW	S	34.00	3.50	7.00 STBC	-	14.25 - 9.25	Concrete Asphalt/Conc. STBC/SG	2.8-5.0: RES - Red-Brown, Fine to Coarse Sandy SILT, trace mica	S-32	A-4	M	5	Very Fine Spiderweb Cracking, Hairline Longitudinal Crack in Core (1/2-inch)	678,461	916,575	
C-33 Y Sta. 30+94 EB OSL	Cut 5.0	12.0	N/A	6.6 LT FW	S	32.50	14.00	4.00 STBC	-	14.50	Concrete Asphalt/Fabric STBC/SG	2.7-5.0: RES - Brown-Red, Fine to Coarse Sandy SILT, trace mica	S-33	A-4	M	5	Very Fine Spiderweb Cracking, 2 ft x 3 ft patch at joint near ISWP Test performed adjacent to patching.	678,448	916,575	
C-30 Y Sta. 30+95 EB ISS	Fill 10.0	11.5 ISL	12.0 PS Concrete Barrier	2.0 LT FY	S	36.00	16.50 - 9.50	6.00 STBC	-	-	Asphalt STBC/Asphalt STBC/SG	3.0-5.0: RE - Brown-Red, Fine to Coarse Sandy SILT, trace mica Augered through Asphalt from 1.9-2.7	S-30	A-4	M	5	Low Severity Fatigue Cracking, and Low Severity Longitudinal and Transverse Cracking	678,478	916,575	
C-31 Y Sta. 30+95 EB ISL	Fill 5.0	11.5 ISL	12.0 PS Concrete Barrier	5.6 RT FY	S	35.00	14.50	5.25 STBC	-	15.25	Concrete Asphalt STBC/SG	2.9-5.0: RE - Red-Brown, Fine to Coarse Sandy SILT, trace mica	S-31	A-4	M	5	No Observed Pavement Distress	678,471	916,575	
C-34 Y Sta. 31+09 EB MERGE LANE	Cut 5.0	12.0 MERGE LANE	12.0 PS	4.0 LT FW	S	33.00	4.25	4.00 STBC	-	15.00 - 9.75	Concrete Asphalt/Conc. STBC/SG	2.7-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-34	A-4	M	5	Moderate Severity Longitudinal Cracking at Joint (Reflective) Very Fine Hairline Spiderweb Cracking (MERGE LANE)	678,434	916,590	
C-35 Y Sta. 31+09 EB OSS	Cut 10.0	12.0 OSL	12.0 PS Concrete Exp. Gutter	6.8 RT FW	S	34.00	24.00	-	10.00 Shoulder Drain	-	Asphalt Shoulder Drain SG	2.8-5.0: RES - Red-Brown, Fine to Coarse Sandy SILT, trace mica Shoulder Drain Encountered from 2.0-2.8 ft	S-35	A-4	M	5	No Observed Pavement Distress (OSS)	678,423	916,590	
C-37 Y Sta. 37+02 EB OSS	Fill 20.0	12.0 OSL	12.0 PS Concrete Exp. Gutter	8.5 RT FW	S	29.00	15.50	8.50 STBC	5.00 SAND	-	Asphalt STBC/Sand SG	2.4-5.0: RE - Red, Fine to Coarse Sandy SILT, trace mica	S-37	A-4	M	5	2 ft x 3 ft pothole at Transverse/Longitudinal joint (OSL-ISWP), High Severity Concrete Spalling Low Severity Transverse Cracking (OSL), No Observed Pavement Distress (OSS)	678,404	917,174	
C-38 Y Sta. 43+34 EB OSL	Fill 20.0	11.5 OSL	11.0 PS Concrete Exp. Gutter	3.7 LT FW	C	19.50	5.25	-	-	14.25	Concrete Asphalt SG	1.6-2.4: RE - Red, Fine to Coarse Sandy SILT, little mica 2.4-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace gravel	Ref-37 Ref-39A	A-4 A-4	M M	5	Low Severity Longitudinal (OSWP, ISWP) and Transverse Cracking, Very Fine Spiderweb Cracking Patching Approx. 12-inch wide at Transverse Concrete Joint	678,313	917,797	
C-39 Y Sta. 43+34 EB OSS	Fill 20.0	11.5 OSL	11.0 PS Concrete Exp. Gutter	4.3 RT FW	C	16.00	13.00	3.00 STBC	-	-	Asphalt STBC SG	1.3-2.5: RE - Brown-Tan, Silty Fine to Coarse SAND, trace gravel 2.5-5.0: RE - Brown, Fine to Coarse Sandy SILT, little to some mica	S-39 S-39A	A-2.4 A-4	M M	5	Low Severity Longitudinal (OSWP, ISWP) and Transverse Cracking, Very Fine Spiderweb Hairline Cracking Patching Approx. 12-inch wide at Transverse Concrete Joint	678,305	917,796	
C-40 Y Sta. 48+83 EB OSS	Fill 15.0	12.0 OSL	12.0 PS Concrete Exp. Gutter	4.0 RT FW	C	28.00	20.00	-	8.00 Shoulder Drain	-	Asphalt Shoulder Drain SG	2.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-40	A-4	M	5	High Severity Concrete Spalling at Longitudinal Joints, Low Severity Transverse Cracking (OSS)	678,213	918,337	
C-41 Y Sta. 58+86 EB OSML	Fill 15.0	12.0 OSML	N/A	17.6 LT FW	C	33.00	4.00	5.50 STBC	-	15.00 - 8.50	Concrete Asphalt/Conc. STBC/SG	2.8-5.0: RE - Red-Brown, Fine to Coarse Sandy SILT, trace mica	Ref-42	A-4	M	5	Very Fine Spiderweb Hairline Cracking (OSML - OSWP, ISWP)	678,054	919,327	
C-42 Y Sta. 58+86 EB OSL	Fill 15.0	12.0 OSL	14.0 PS Concrete Barrier	4.8 LT FW	C	31.00	3.75	4.00 STBC	-	15.00 - 8.25	Concrete Asphalt/Conc. STBC/SG	2.6-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-42	A-4	M	5	Very Fine Spiderweb Hairline Cracking (OSML - OSWP, ISWP) High Severity Concrete Spalling at Longitudinal Joint (6 to 8 inches)	678,041	919,325	
C-43 Y Sta. 58+86 EB OSS	Fill 15.0	12.0 OSL	14.0 PS Concrete Barrier	3.5 RT FW	C	31.00	14.75	8.25 STBC	8.00 Shoulder Drain	-	Asphalt STBC Gravel/SG	2.6-5.0: RE - Brown, Fine to Coarse Sand SILT, trace organics Gravel Layer - Possible Shoulder Drain STBC Layer attached to pavement core	S-43	A-4	M	5	Very Fine Spiderweb Hairline Cracking (OSML - OSWP, ISWP)	678,033	919,324	

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

Prepared by: DMB
Reviewed by: REK

PAVEMENT INVESTIGATION DATA SHEET

Project:	34165.1.6
TIP:	I-2513AA/AB

Route:	I-26 from I-40 to SR 3548 (Haywood Road)
County:	Buncombe

Date Performed:	9/27-10/1 & 10/11-10/13 (6 Nights)
Field Personnel:	M. Brewer, D. Underwood, C. Odom

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		(ft)	(in)	Thickness (in)					Pavement Layering	SG					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder			Offset Distance (See Notes)	Crown "C" or Super "S"	Gross to Top of Soil	Asphalt	ABC/STBC		Shoulder Drain Drainage Sand CSS (Chemical)	Concrete	Description (Depth - ft)	Soil Sample Number	AASHTO Classification		Soil Moisture	Boring Depth (ft)
C-44 Y Sta. 63+48 EB OSS	Fill 10.0	12.0 OSL	14.0 PS Concrete Barrier	8.3 RT FW	C	21.00	14.50	6.50 STBC	-	-	Asphalt STBC SG	1.8-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-44	A-4	M	5	Low Severity Longitudinal (OSS-OSWP) Cracking, Very Fine Hairline Spiderweb Cracking (OSL)	677,950	919,777
C-45 Y Sta. 68+28 EB OSS	Fill 10.0	12.0 OSL	14.0 PS Concrete Barrier	3.8 RT FW	C	19.50	16.50	3.00 STBC	-	-	Asphalt STBC SG	1.7-5.0: RE - Brown-Red, Fine to Coarse Sandy SILT, trace mica	S-45	A-4	M	5	No Pavement Distress (OSS), High Severity Concrete Spalling at OSL - Outside Joint, 3 to 4 inches	677,859	920,246
C-46 Y Sta. 75+08 EB OSS	Fill 5.0	12.0 OSL	14.0 PS Concrete Barrier	8.2 RT FW	C	23.00	14.75	8.25 STBC	-	-	Asphalt STBC SG	1.9-5.0: RE - Brown-Red, Silty Fine to Coarse SAND, trace mica	S-46	A-2-4	M	5	No Pavement Distress (OSS), High Severity Concrete Spalling at OSL/MID Joint 4 to 6-inch wide spalls along joint.	677,692	920,903
C-47 Y Sta. 80+18 EB OSS	Cut 30.0	12.0 OSL	12.0 PS Concrete Barrier	4.0 RT FW	C	31.00	23.00	-	8.00 Shoulder Drain	Asphalt Shoulder Drain SG	2.6-5.0: RES - Brown, Fine to Coarse to Coares Sandy SILT, trace mica	S-47	A-4	M	5	No Pavement Distress	677,567	921,397	
Bulk-1 Y Sta. 80+34 RT	Cut 30.0	-	-	-	-	-	-	-	-	-	1.0-3.0: RES - Brown-Orange, Silty Fine to Coarse SAND, trace mica	Bulk-1	A-2-4 15%	M	3	Bulk Sample #1 Collected at grade near toe of existing cut slope (RT)	677,541	921,407	
C-48 Y Sta. 85+43 EB OSS	Cut 20.0	12.0 OSL	12.0 PS Concrete Barrier	9.5 RT FW	C	23.00	16.75	6.25 STBC	-	-	Asphalt STBC SG	1.9-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-48	A-4	M	5	No Pavement Distress	677,428	921,904
C-49 Y Sta. 87+83 EB ISS	Cut 15.0	12.0 ISL	10.0 PS Concrete Barrier	4.0 LT FY	C	22.00	17.00	5.00 STBC	-	-	Asphalt STBC SG	1.8-2.3: RE - Brown, Fine to Coarse Sandy SILT, trace mica 2.3-5.0: RES - White, SILT, trace mica	S-49 S-49A	A-4 A-5	M M	5	No Pavement Distress	677,427	922,152
C-50 Y Sta. 87+83 EB ISL	Cut 15.0	12.0 ISL	10.0 PS Concrete Barrier	5.5 RT FY	C	30.25	4.50	10.00 STBC	-	15.75	Concrete Asphalt STBC/SG	2.6-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-50	A-4	M	5	No Pavement Distress	677,417	922,149
C-51 Y Sta. 87+84 EB ISML	Cut 15.0	12.0 ISML	N/A	16.3 RT FY	C	34.00	4.25	6.25 STBC	-	15.00 - 8.50	Concrete Asphalt/Conc. STBC/SG	2.8-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-51	A-4	M	5	No Pavement Distress	677,407	922,147
C-52 Y Sta. 87+84 EB OSML	Cut 15.0	12.0 OSML	N/A	13.5 LT FW	C	32.00	4.75	7.25 STBC	-	14.75 5.25	Concrete Asphalt/Conc. STBC/SG	2.7-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-52	A-4	M	5	Very Fine to Coarse Longitudinal Cracking and Hairline Spiderweb Cracking (ISWP, OSWP)	677,390	922,143
C-53 Y Sta. 87+84 EB OSL	Cut 15.0	12.0 OSML	11.5 PS Concrete Exp. Gutter	2.8 LT FW	C	30.00	10.00	6.00 STBC	-	14.00	Concrete Asphalt STBC/SG	2.5-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-53	A-4	M	5	Very Fine to Coarse Longitudinal Cracking and Hairline Spiderweb Cracking (ISWP, OSWP)	677,379	922,140
C-54 Y Sta. 87+84 EB OSS	Cut 15.0	12.0 OSL	11.5 PS Concrete Exp. Gutter	8.2 RT FW	C	23.50	16.75	6.75 STBC	-	-	Asphalt STBC SG	1.9-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-54	A-4	M	5	No Pavement Distress	677,368	922,137
C-55 Y_EB Sta. 10+59 EB OSS	Fill 10.0	12.0 OSL	13.5 PS Concrete Exp. Gutter	4.0 RT FW	C	33.00	25.75	7.25 STBC	-	-	Asphalt STBC SG	2.8-5.0: RE - Brown-Gray, Fine to Coarse Sandy SILT	S-55	A-4	M	5	Low Severity Transverse Cracking (OSS) Moderate Severity Longitudinal Cracking at OSL Joints (Reflective)	677,215	922,737
C-57 Y_EB Sta. 15+83 EB OSS	Cut 30.0	12.0 OSL	12.5 PS Concrete Exp. Gutter	10.0 RT FW	C	25.50	25.50	-	-	-	Asphalt SG	2.1-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-57	A-4	M	5	Moderate Severity Longitudinal Cracking at OSL joints (Reflective), Low Severity Transverse Cracking (OSL, OSML), No Observed Shoulder Distress	677,051	923,233
C-56 Y_EB Sta. 15+85 EB ISS	Cut 30.0	11.0 ISL	3.5 PS	1.7 LT FY	C	24.00	7.50 - 8.00	8.50 STBC	-	-	Asphalt STBC/Asphalt SG	2.0-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica Augered through Asphalt from 1.3-2.0	S-56	A-4	M	5	Moderate Severity Transverse Cracking (All Lanes), Moderate Severity Longitudinal Cracking (ISL-ISWP)	677,107	923,253

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

Prepared by: DMB
Reviewed by: REK

PAVEMENT INVESTIGATION DATA SHEET

Project:	34165.1.6
TIP:	I-2513AA/AB

Route:	I-26 from I-40 to SR 3548 (Haywood Road)
County:	Buncombe

Date Performed:	9/27-10/1 & 10/11-10/13 (6 Nights)
Field Personnel:	M. Brewer, D. Underwood, C. Odom

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Pavement Layering	SG					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder				Gross to Top of Soil	Asphalt	ABC/STBC	Shoulder Drain Drainage Sand CSS (Chemical)	Concrete		Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)		Northing	Easting
C-58 Y_EB Sta. 20+58 EB ISS	Cut 30.0	11.0 OSL	2.5 PS	1.5 LT FY	C	23.00	23.00	-	-	-	Asphalt Fabric SG	1.9-5.0: RES - White, Fine Sandy SILT	S-58	A-4	M-W	5	ISL Outside Longitudinal Joint - High Severity Longitudinal Cracking, Severe Joint Degradation Low to Moderate Severity Transverse Cracking (ISL)	676,952	923,700	
Bulk-2 Y_EB Sta. 20+62	Cut 30.0	-	-	-	-	-	-	-	-	-	-	1.0-3.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	Bulk-2	A-4	M-W 28%	3	Bulk Sample #2 Collected at grade near toe of existing cut slope (RT) Standing Water Observed Near Toe of Slope	676,875	923,678	
C-59 Y_EB Sta. 20+65 EB OSS	Cut 40.0	12.0 OSL	9.5 PS	5.5 RT FW	C	20.00	11.50	8.50 STBC	-	-	Asphalt STBC SG	1.7-5.0: RES - Brown-White, Fine to Coarse Sandy SILT, trace mica	S-59	A-4	M	5	Moderate to High Severity Longitudinal (4-6 inch wide) Cracking at OSL Outside/Inside Joint - Patched No Observed Shoulder Distress	676,898	923,689	
C-61 Y_EB Sta. 25+60 EB ISL	Fill 4.0	11.5 ISL	3.5 PS	6.5 RT FY	C	28.00	25.00	3.00 STBC	-	-	Asphalt STBC SG	2.2-4.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica 4.0-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-61 Ref-63	A-4	M	5	Low Severity Transverse Cracking (ISL), Joint Degradation (Longitudinal and Transverse) at ISL/ISML	676,778	924,171	
C-62 Y_EB Sta. 25+60 EB ISML	Fill 4.0	12.0	N/A	17.3 RT FY	C	20.00	5.00	6.00 STBC	-	9.00	Asphalt Concrete STBC/SG	1.7-4.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica 4.0-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-62 Ref-63	A-4	M	5	Low Severity Transverse Cracking (ISL), Joint Degradation (Longitudinal and Transverse) at ISL/ISML	676,768	924,168	
C-65 Y_EB Sta. 25+60 EB OSS	Cut 30.0	11.5 OSL	9.5 PS	3.0 RT FW	C	21.00	9.75	11.25 STBC	-	-	Asphalt STBC SG	1.8-5.0: RES - Brown-Orange, Fine to Coarse Sandy SILT, trace mica	S-65	A-4	M	5	Moderate Severity Transverse Cracking (OSL), No Observed Shoulder Distress	676,736	924,157	
C-60 Y_EB Sta. 25+61 EB ISS	Fill 4.0	11.5 ISL	3.5 PS	2.5 LT FY	C	33.00	27.50	5.50 STBC	-	-	Asphalt STBC SG	2.8-4.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica 4.0-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-60 Ref-63	A-4	M	5	Low Severity Transverse Cracking (ISL), Joint Degradation (Longitudinal and Transverse) at ISL/ISML No Observed Pavement Distress (ISS)	676,787	924,175	
C-63 Y_EB Sta. 25+61 EB OSML	Cut 30.0	12.0	N/A	16.8 LT FW	C	22.00	5.25	8.00 STBC	-	8.75	Asphalt Concrete STBC/SG	1.8-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-63	A-4	M	5	Moderate Severity Transverse Cracking (OSML)	676,755	924,164	
C-64 Y_EB Sta. 25+61 EB OSL	Cut 30.0	11.5 OSL	9.5 PS	4.7 LT FW	C	20.00	4.75	5.75 STBC	-	9.50	Asphalt Concrete STBC/SG	1.7-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-64	A-4	M	5	Moderate Severity Transverse Cracking (OSL), Crack in Core Full Depth Crack in Core (construction joint)	676,744	924,160	
C-66 Y_EB Sta. 31+04 EB ISS	Cut 10.0	11.5 ISL	6.3 PS	4.0 LT FY	C	17.50	9.50	8.00 STBC	-	-	Asphalt STBC SG	1.4-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-66	A-4	M	5	Low to Moderate Severity Longitudinal and Transverse Cracking at Joints (Reflective) Low Severity Transverse Cracking (ISS)	676,609	924,688	
C-67 Y_EB Sta. 31+04 EB OSS	At Grade	11.0 OSL	10.0 PS	7.5 RT FW	C	17.00	9.00	8.00 STBC	-	-	Asphalt STBC SG	1.4-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	Ref-65	A-4	M	5	Low Severity Transverse and Longitudinal Cracking at Joints (Reflective) Low Severity Transverse Cracking (OSL, OSS)	676,553	924,669	
C-68 Y_EB Sta. 36+17 EB ISS	Fill 5.0	11.5 ISL	5.5 PS	1.7 LT FY	C	18.00	10.00	8.00 STBC	-	-	Asphalt STBC SG	1.5-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-68	A-4	M	5	Low to Moderate Severity Transverse and Longitudinal Cracking at Joints (Reflective) No Observed Shoulder Distress	676,443	925,173	
C-69 Y_EB Sta. 36+18 EB OSS	At Grade	12.0 OSL	15.0 PS GORE	6.5 RT FW	C	20.00 16.00	2.25 6.00	8.25 10.00 STBC	-	9.50	Asphalt Concrete STBC/SG	1.7-5.0: RES - Brown, Fine to Coarse Sandy, Silty CLAY, trace mica Only Recovered Core from Concrete Section	S-69	A-6	M	5	Core Location Drilled at Concrete Section/Gore Section Interface Low to Moderate Severity Transverse and Longitudinal Cracking at Joints (Reflective) No Observed Shoulder Distress	676,400	925,160	
C-70 Y_EB Sta. 41+01 EB ISS	Fill 5.0	11.5 ISL	6.3 PS	2.5 LT FY	S	19.00	9.50	9.50 STBC	-	-	Asphalt STBC SG	1.6-5.0: RE - Brown-Red, Fine to Coarse Sandy SILT, trace tree fragment	S-70	A-4	M	5	Low to Moderate Severity Longitudinal and Transverse Cracking at Joint (Reflective) (ISL) Very Fine Hairline Transverse Cracking (ISS)	676,334	925,642	
C-71 Y_EB Sta. 41+02 EB OSS	Fill 5.0	11.5 OSL	12.0 PS	7.0 RT FW	S	16.00	9.00	7.00 STBC	-	-	Asphalt STBC SG	1.3-5.0: RE - Brown-Red, Fine to Coarse Sandy SILT, trace mica	S-71	A-4	M	5	Low to Moderate Severity Longitudinal and Transverse Cracking at Joint (Reflective) (OSL)	676,289	925,635	

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

Prepared by: DMB
Reviewed by: REK

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
Haywood				M. Brewer		C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-28 Y Sta. 19+19 EB OSS 4.1 FT RT FW				9/27-10/1, 10/11-10/13	C-29 Y Sta. 23+92 EB OSS 3.7 FT RT FW				9/27-10/1, 10/11-10/13
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		15.0 ft Cut	DCP	Cumulative cm per blow	STBC		10.0 ft Cut
0.60	7.00	74.80			0.70	67.30			
0.90	7.05	76.40			1.20	68.50			
1.20	7.10	78.20			1.80	69.40			
1.50	7.15	80.10			2.20	70.20			
1.70	7.20	82.40			2.70	71.00			
1.80	7.25	84.30			3.00	71.80			
1.90	7.30	85.90			3.40	72.80			
2.10	7.35	87.60			3.70	73.80			
2.30	7.40	89.70			4.20	74.80			
2.42	50/1.25*	91.80			4.60	75.90			
2.54	DCP REF	94.80			5.00	76.90			
2.66		97.20			5.40	77.90			
2.78	AUGER	99.20			5.80	79.10			
2.90	23.4 CM	100.70			6.00	80.30			
3.02	to 30.8				6.40	81.30			
3.14	1.20				7.00	82.50			
3.26	1.70				7.80	83.70			
3.38	2.10				8.40	85.00			
3.50	2.50				9.20	86.20			
3.68	3.00				10.20	87.40			
3.86	3.40				11.40	88.50			
4.04	3.80				11.90	89.60			
4.22	4.30				12.50	90.90			
4.40	4.60				13.30	92.00			
4.52	5.20				13.90	92.90			
4.64	5.50				15.10	93.80			
4.76	6.20				16.80	94.80			
4.88	6.80				18.90	95.60			
5.00	7.20				20.70	96.40			
5.04	7.90				22.40	97.60			
5.08	8.30				24.10	98.60			
5.12	9.20				26.00	99.80			
5.16	10.10				27.90	100.80			
5.20	11.10				29.90	101.60			
5.30	12.70				31.70	102.50			
5.40	14.40				33.50	103.50			
5.50	16.40				35.00	104.40			
5.60	18.30				36.20	105.40			
5.70	20.30				37.50	106.60			
5.78	22.80				38.90	107.80			
5.86	25.40				40.20	109.20			
5.94	27.80				41.80	110.50			
6.02	30.00				43.30	111.70			
6.10	32.00				44.80				
6.15	34.00				46.40				
6.20	35.90				47.80				
6.25	38.00				49.30				
6.30	40.60				50.40				
6.35	43.40				51.80				
6.40	47.00				52.60				
6.45	49.90				53.70				
6.50	52.60				54.60				
6.55	55.10				55.80				
6.60	57.10				56.70				
6.63	58.90				57.80				
6.66	60.60				58.80				
6.69	62.30				59.90				
6.72	63.90				60.50				
6.75	65.50				61.10				
6.78	66.70				62.00				
6.81	67.80				62.80				
6.84	69.50				63.80				
6.87	70.90				64.60				
6.90	71.90				65.70				
6.95	73.40				66.50				

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
Haywood				M. Brewer		C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-32 Y Sta. 30+94 EB MID-LANE 19.6 FT LT FW				9/27-10/1, 10/11-10/13	C-33 Y Sta. 30+94 EB OSL 6.6 FT LT FW				9/27-10/1, 10/11-10/13
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		5.0 ft Cut	DCP	Cumulative cm per blow	STBC		5.0 ft Cut
1.10	82.50				1.30	72.00			
1.70	83.60				2.00	72.80			
2.10	84.60				2.70	73.50			
2.50	85.60				3.50	74.50			
3.10	86.60				3.80	75.10			
3.60	87.80				4.80	76.30			
4.20	89.10				6.00	77.50			
4.60	90.20				7.20	79.10			
4.90	91.50				9.40	80.50			
5.40	92.80				10.70	82.20			
5.90	94.00				12.00	83.80			
6.40	95.90				14.10	85.00			
6.80	96.60				16.10	86.50			
7.30	97.70				18.20	87.80			
7.90	98.70				19.60	89.00			
8.60	99.70				20.90	90.00			
9.40	101.00				22.80	91.30			
9.80					24.80	92.50			
10.90					26.10	93.50			
12.20					27.50	94.60			
13.40					29.50	95.90			
15.10					31.80	97.20			
16.40					35.10				
18.00					37.20				
20.50					40.10				
22.10					42.80				
23.60					45.80				
25.20					48.70				
27.30					51.00				
28.80					52.50				
30.10					53.80				
32.20					54.50				
33.70					55.30				
35.50					55.80				
37.00					56.40				
38.50					56.80				
39.60					57.20				
40.60					57.50				
41.60					58.00				
42.20					58.70				
43.60					59.10				
45.20					59.60				
47.00					60.00				
49.20					60.40				
50.80					60.90				
52.80					61.30				
54.80					61.60				
56.80					62.10				
58.60					62.60				
60.20					63.00				
61.90					63.40				
63.30					63.80				
65.00					64.20				
66.30					64.80				
67.80					65.00				
68.50					65.40				
69.60					66.10				
70.70					66.70				
72.10					67.20				
73.40					67.90				
74.90					68.60				
76.50					69.20				
78.20					70.00				
79.70					70.60				
81.20					71.30				

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location	Date Run			
C-30 Y Sta. 30+95 EB ISS 2.0 FT LT FY				9/27-10/1, 10/11-10/13	C-31 Y Sta. 30+95 EB ISL 5.6 FT RT FY	9/27-10/1, 10/11-10/13			
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		10.0 ft Fill	DCP	Cumulative cm per blow	STBC		5.0 ft Fill
1.60	16.32	0.60	64.50		0.10				
2.40	16.46	1.00	69.70		0.60				
2.80	16.60	1.40	74.40		1.40				
2.90	16.78	1.80	78.00		1.80				
3.30	16.96	2.10	80.70		2.10				
3.70	17.14	2.50	82.70		2.80				
3.90	17.32	2.70	84.40		3.50				
4.00	17.50	3.00	86.00		4.20				
4.20	17.64	3.30	88.30		4.80				
4.60	17.78	3.70	91.00		5.60				
5.00	17.92	3.90	93.20		6.80				
5.20	18.06	4.20			7.30				
5.50	18.20	4.40			7.90				
5.70	18.36	4.60			8.90				
5.90	18.52	4.80			10.10				
6.20	18.68	5.30			11.50				
6.40	18.84	5.60			13.90				
6.70	19.00	5.90			16.30				
6.90	19.15	6.10			18.60				
7.00	19.30	6.40			20.30				
7.10	19.45	6.70			22.40				
7.60	19.60	7.10			24.30				
8.20	19.75	7.40			27.60				
8.50	19.90	7.70			30.00				
8.70	20.05	8.20			33.00				
8.90	20.20	8.50			35.70				
9.10	20.35	8.80			38.10				
9.20	20.50	9.40			40.50				
9.50	20.90	10.00			43.10				
9.70	21.10	11.10			45.60				
9.80	21.25	12.00			48.60				
9.90	21.40	12.70			51.10				
10.10	21.55	13.60			53.10				
10.40	21.70	14.50			56.40				
10.70	21.85	15.30			59.10				
11.00	22.00	16.10			62.30				
11.10	22.15	16.60			65.70				
11.60	22.30	17.40			69.00				
11.80	22.45	18.10			73.40				
11.90	22.60	18.50			76.60				
12.10	22.69	18.90			79.60				
12.20	22.78	19.30			82.70				
12.50	22.87	19.70			85.10				
12.60	22.96	20.10			87.30				
12.70	23.05	20.60			89.40				
12.80	23.14	21.20			91.10				
12.90	23.23	21.70			93.00				
13.00	23.32	22.60			94.70				
13.20	23.41	23.20			96.20				
13.40	23.50	24.30			98.70				
13.60	23.57	25.30							
13.80	23.64	26.30							
14.00	23.71	27.40							
14.20	23.78	29.30							
14.40	23.85	30.90							
14.60	23.92	32.90							
14.80	23.99	34.70							
15.00	24.06	39.20							
15.18	24.13	41.30							
15.36	24.20	44.00							
15.54	50/2.6*	47.00							
15.72	DCP REF	50.10							
15.90	AUGER	53.30							
16.04	17.5 CM	56.80							
16.18	TO 41.7	60.50							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location	Date Run			
C-34 Y Sta. 31+09 EB MERGE LANE 4.0 FT LT FW				9/27-10/1, 10/11-10/13	C-35 Y Sta. 31+09 EB OSS 6.8 FT RT FW	9/27-10/1, 10/11-10/13			
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		5.0 ft Cut	DCP	Cumulative cm per blow	Shoulder Drain		10.0 ft Cut
1.00	32.30	51.60	68.60		2.10	70.40			
1.40	32.40	51.90	68.90		4.00	70.60			
2.30	32.60	52.10	69.40		5.30	71.30			
3.20	33.00	52.30	70.10		6.50	72.10			
4.10	33.40	52.80	70.40		7.70	72.70			
4.90	33.60	52.90	70.80		8.90	73.30			
5.30	34.00	53.00	71.00		10.20	74.00			
6.10	34.10	53.10	71.30		11.70	74.80			
6.40	34.30	53.30	71.70		13.10	75.40			
7.40	34.40	53.70	72.20		14.40	76.10			
8.00	34.80	54.10	72.40		15.70	76.90			
9.00	35.10	54.40	72.80		17.20	77.70			
9.90	35.30	54.60	73.00		19.00	78.40			
11.00	35.60	54.80	73.30		20.70	79.40			
12.00	36.00	55.10	73.80		21.90	80.30			
13.00	36.30	55.40			24.10	81.40			
14.30	36.50	55.60			26.20	82.30			
16.00	36.90	55.70			28.80	83.40			
16.80	37.10	56.00			31.00	84.40			
18.30	37.50	56.10			33.20	85.30			
19.40	37.70	56.40			35.50	86.10			
19.60	38.00	56.60			37.70	87.10			
20.10	38.30	56.90			39.60	87.80			
20.60	38.60	57.30			40.90	88.50			
21.00	38.70	57.40			42.20	89.00			
21.30	38.80	57.80			43.20	89.70			
21.70	39.20	58.00			44.20	90.20			
22.00	39.40	58.30			45.10	90.70			
22.40	39.80	58.50			45.90	91.20			
22.70	40.10	58.70			46.60	91.30			
23.10	40.30	59.00			47.40	91.70			
23.40	40.60	59.20			48.20	92.20			
23.60	40.80	59.50			49.00	92.60			
23.80	41.10	59.90			49.60	93.00			
24.00	41.30	60.00			50.30	93.70			
24.20	41.70	60.10			50.90	94.30			
24.40	42.40	60.20			51.80	94.90			
24.60	42.80	60.30			52.30	95.80			
24.86	43.00	60.80			53.00	96.30			
25.12	43.30	61.10			53.10	97.00			
25.38	43.70	61.80			53.70	97.80			
25.64	44.00	62.20			54.30	98.40			
25.90	44.70	62.40			55.20	99.20			
26.00	44.80	62.70			55.90	99.80			
26.50	45.20	62.90			56.70	100.80			
26.60	45.40	63.20			57.40	101.60			
27.10	45.60	63.40			58.30	102.60			
27.40	46.10	63.80			58.90	103.40			
27.60	46.50	63.90			59.60	104.50			
27.70	46.70	64.00			60.30	105.30			
28.20	47.20	64.40			61.00	106.20			
28.50	47.40	64.90			61.80	107.30			
28.60	47.80	65.20			62.40	108.20			
28.90	48.10	65.60			62.90	109.10			
29.20	48.30	65.80			63.50	110.10			
29.30	48.70	66.10			64.30				
29.70	48.90	66.40			65.00				
30.00	49.10	66.70			65.70				
30.50	49.40	66.90			66.10				
30.70	49.60	67.20			66.80				
31.10	50.10	67.40			67.50				
31.30	50.30	67.70			68.10				
31.50	50.50	67.90			68.80				
31.80	50.80	68.10			69.30				
32.00	51.20	68.40			70.10				

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-37 Y Sta. 37+02 EB OSS 8.5 FT RT FW				9/27-10/1, 10/11-10/13	C-38 Y Sta. 43+34 EB OSL 3.7 FT LT FW				9/27-10/1, 10/11-10/13
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		20.0 ft Fill	DCP	Cumulative cm per blow	Subgrade (A-4)		20.0 ft Fill
1.50	53.40	116.20			3.90	50.70	75.70	89.96	
2.20	53.80	117.60			5.90	51.30	76.30	90.00	
2.90	54.20	118.90			7.10	51.60	77.00	90.04	
3.90	54.60	120.20			10.20	52.10	77.50	90.08	
5.20	55.00	120.40			12.50	52.50	77.80	90.12	
6.70	55.60				15.10	53.00	78.00	90.16	
8.60	56.00				17.70	53.50	78.30	90.20	
10.50	56.40				20.70	53.90	78.50	90.24	
12.70	56.90				21.70	54.40	78.80	90.28	
13.50	57.30				22.30	54.80	79.20	90.32	
14.30	57.90				22.90	55.30	79.30	90.36	
15.10	58.50				23.40	55.80	79.60	90.40	
16.10	59.00				23.80	56.30	79.80	90.44	
16.90	59.60				24.40	56.70	80.00	90.48	
18.10	60.50				25.30	57.30	80.60	90.52	
19.40	61.20				26.10	57.80	80.80	90.56	
20.80	62.10				26.70	58.20	81.00	90.60	
22.20	62.90				27.60	58.60	81.10	90.64	
24.00	63.70				28.20	59.10	81.40	90.68	
24.90	64.60				28.90	59.40	81.70	90.72	
26.00	65.40				29.70	59.60	81.90	90.76	
26.70	66.30				30.40	59.80	82.10	90.80	
27.00	67.30				31.30	59.90	82.40	90.82	
27.40	68.10				31.80	60.00	82.90	90.84	
28.00	69.00				32.00	60.20	83.30	90.86	
28.40	69.70				32.30	60.40	83.60	90.88	
28.80	70.20				32.40	60.50	84.30	90.90	
29.30	71.40				32.70	60.60	84.90	90.92	
29.40	72.60				32.90	60.70	85.00	90.94	
30.30	74.00				33.10	60.80	85.40	90.96	
31.50	75.10				33.40	60.90	85.80	90.98	
32.80	76.10				33.60	61.00	86.00	91.00	
34.40	77.00				33.90	61.10	86.40	50/1*	
35.50	77.90				34.20	61.20	86.70	DCP REF	
36.80	78.80				34.50	61.30	87.00		
38.10	79.80				34.80	61.50	87.40		
38.80	80.60				35.20	61.80	87.80		
39.30	81.50				35.40	61.90	88.00		
39.70	82.60				35.70	62.10	88.20		
40.60	85.10				36.10	62.30	88.30		
41.40	86.40				36.60	62.50	88.40		
41.90	87.60				37.10	62.80	88.50		
42.40	88.50				37.90	63.10	88.60		
43.20	89.60				38.70	63.50	88.70		
44.00	90.60				39.40	64.00	88.90		
44.30	91.90				40.30	64.50	89.00		
44.70	93.20				40.80	65.10	89.10		
45.30	94.40				41.50	65.70	89.15		
45.80	95.80				41.80	66.20	89.20		
46.40	96.90				42.10	66.80	89.25		
47.00	98.10				42.50	67.30	89.30		
47.80	99.40				43.30	67.90	89.35		
47.90	100.70				43.80	68.40	89.40		
48.70	101.80				44.40	68.90	89.45		
48.90	102.80				45.00	69.40	89.50		
49.30	103.90				45.80	69.90	89.55		
49.70	105.10				46.40	70.20	89.60		
50.20	106.30				46.90	70.80	89.64		
50.60	107.70				47.30	71.20	89.68		
51.00	108.90				47.90	71.60	89.72		
51.40	110.00				48.30	72.20	89.76		
51.80	111.10				48.80	72.90	89.80		
52.20	112.30				49.30	73.70	89.84		
52.70	113.60				49.80	74.30	89.88		
53.10	114.90				50.30	75.00	89.92		

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-39 Y Sta. 43+34 EB OSS 4.3 FT RT FW				9/27-10/1, 10/11-10/13	C-40 Y Sta. 48+83 EB OSS 4.0 FT RT FW				9/27-10/1, 10/11-10/13
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		20.0 ft Fill	DCP	Cumulative cm per blow	Shoulder Drain		15.0 ft Fill
3.80	44.60	58.30	70.72		4.00	74.50			
7.80	44.70	58.60	70.79		7.60	75.00			
11.60	44.80	58.80	70.86		11.20	75.60			
13.70	44.90	59.30	70.93		14.60	76.40			
15.00	45.12	59.60	71.00		18.20	77.30			
16.30	45.34	59.80	71.06		20.90	78.10			
17.60	45.56	60.00	71.12		24.50	79.00			
19.00	45.78	60.20	71.18		28.60	79.80			
20.70	46.00	60.40	71.24		33.00	80.80			
22.70	46.08	60.60	71.30		38.20	81.80			
24.80	46.16	60.74	71.36		40.70	82.30			
26.30	46.24	60.88	71.42		41.70	83.20			
28.00	46.32	61.02	71.48		42.60	84.20			
29.50	46.40	61.16	71.54		43.40	85.40			
31.10	46.60	61.30	71.60		43.90	86.50			
32.10	46.70	61.52	71.61		44.10	87.50			
33.10	46.80	61.74	71.63		44.50	88.40			
34.00	46.90	61.96	71.64		44.90	89.00			
35.00	47.00	62.18	71.65		45.20	89.50			
35.90	47.10	62.40	71.67		45.60	90.20			
36.70	47.20	62.50	71.68		46.10	90.80			
37.50	47.30	62.60	71.69		46.50	91.30			
38.30	47.40	62.70	71.71		46.90	91.50			
38.80	47.50	62.80	71.72		47.40	92.20			
39.10	47.60	62.90	71.73		47.70	92.80			
39.40	48.00	63.08	71.75		48.00	93.40			
39.50	48.28	63.26	71.76		48.40	94.10			
39.80	48.56	63.44	71.77		49.00	94.70			
40.00	48.84	63.62	71.79		49.50	95.20			
40.20	49.12	63.80	71.80		49.80	95.60			
40.40	49.40	63.96	71.81		50.40	96.30			
40.50	49.62	64.12	71.83		50.80	96.80			
40.70	49.84	64.28	71.84		51.20	97.30			
40.90	50.06	64.44	71.85		51.70	98.00			
41.10	50.28	64.60	71.87		52.10	98.50			
41.20	50.50	64.82	71.88		52.60	99.00			
41.40	50.68	65.04	71.89		53.10	99.60			
41.50	50.86	65.26	71.91		53.60	100.30			
41.62	51.04	65.48	71.92		54.00	101.00			
41.74	51.22	65.70	71.93		54.60	101.50			
41.86	51.40	65.92	71.95		55.00	102.20			
41.98	51.52	66.14	71.96		55.40	102.70			
42.10	51.64	66.36	71.97		55.80	103.20			
42.16	51.76	66.58	71.99		56.50	103.60			
42.22	51.88	66.80	72.00		56.90	104.00			
42.28	52.00	66.90	50/1*		57.60	104.60			
42.34	52.24	66.94	DCP REF		58.20	105.20			
42.40	52.48	66.98			58.80	105.70			
42.50	52.72	67.02			59.50	106.30			
42.60	52.96	67.06			60.00	106.90			
42.70	53.20	67.10			60.80	107.50			
42.80	53.40	67.30			61.60	108.10			
42.90	53.80	68.20			62.60	108.60			
43.02	54.00	68.50			63.30	109.20			
43.14	54.30	69.00			63.80	109.60			
43.26	54.50	69.30			64.80				
43.38	54.90	69.50			65.50				
43.50	55.20	69.80			66.70				
43.66	55.60	70.20			68.10				
43.82	55.90	70.30			69.10				
43.98	56.30	70.37			70.50				
44.14	56.80	70.44			71.70				
44.30	57.20	70.51			72.50				
44.40	57.60	70.58			73.40				
44.50	58.00	70.65			74.00				

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-41 Y Sta. 58+86 EB OSML 17.6 FT LT FW				9/27-10/1, 10/11-10/13	C-42 Y Sta. 58+86 EB OSL 4.8 FT LT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	15.0 ft Fill	DCP	Cumulative cm per blow	STBC	15.0 ft Fill	DCP	Cumulative cm per blow	STBC	15.0 ft Fill
1.50	76.90			3.90	91.60						
2.60	78.00			4.60	93.00						
3.60	78.90			5.40	94.40						
4.40	80.00			6.20	95.50						
5.40	80.10			6.60	96.60						
6.50	81.10			7.20	98.20						
7.30	82.10			8.60	99.80						
8.30	83.30			9.60	101.80						
9.50	84.20			10.80	103.40						
10.10	85.50			11.50	105.10						
11.10	86.70			12.40	106.80						
12.10	87.80			13.30	108.60						
13.40	89.00			14.40							
14.50	90.50			15.30							
15.80	91.80			16.60							
17.00	93.20			17.30							
18.40	94.90			18.20							
19.70				19.10							
20.60				20.10							
22.70				21.00							
23.90				21.90							
25.20				23.10							
26.40				24.60							
27.90				26.00							
29.60				27.80							
31.00				29.00							
32.70				30.80							
34.00				32.40							
35.50				34.60							
36.70				36.50							
37.70				38.10							
39.20				39.60							
40.50				41.20							
42.00				42.80							
43.20				44.30							
44.70				45.80							
46.10				47.50							
47.30				49.40							
48.70				51.30							
50.30				53.00							
52.20				54.90							
54.30				56.70							
56.10				58.20							
57.70				61.00							
59.20				62.40							
60.00				63.90							
61.40				65.40							
62.40				66.90							
63.40				68.40							
64.50				70.10							
65.50				72.70							
66.60				73.50							
67.30				75.00							
68.40				76.50							
68.80				77.40							
69.50				78.00							
70.30				79.00							
70.90				80.60							
71.60				81.50							
72.20				82.90							
73.00				84.10							
73.40				85.50							
74.10				86.80							
74.90				88.50							
75.90				90.10							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-43 Y Sta. 58+86 EB OSS 3.5 FT RT FW				9/27-10/1, 10/11-10/13	C-44 Y Sta. 63+48 EB OSS 8.3 FT RT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	15.0 ft Fill	DCP	Cumulative cm per blow	STBC	10.0 ft Fill	DCP	Cumulative cm per blow	STBC	10.0 ft Fill
1.00	74.20			1.50	115.14						
1.80	76.20			2.00	115.41						
2.40	78.20			3.30	115.68						
3.00	79.80			3.80	115.95						
3.70	81.30			4.80	116.22						
4.30	82.20			5.50	116.49						
5.50	84.20			6.20	116.76						
5.90	85.80			7.10	117.03						
6.50	87.80			8.00	117.30						
7.20	90.00			9.20	117.65						
8.40	91.30			10.70	118.00						
9.10	92.00			12.80	118.35						
9.70	92.40			14.80	118.70						
10.30	93.40			16.40	119.05						
11.00	94.20			18.30	119.40						
11.70	95.40			20.90	119.75						
12.30	96.60			25.00	120.10						
13.00	98.40			28.60	120.45						
13.70	100.10			33.20	120.80						
14.30	101.70			38.00	121.20						
15.20	103.10			41.00	121.50						
16.00	104.60			43.70	121.90						
16.70	106.20			47.00	122.80						
17.60	107.70			51.50	123.00						
18.70	109.10			56.30	123.60						
19.40	110.20			59.70	124.30						
20.20	111.50			61.40	125.10						
20.60	112.90			62.40	126.00						
21.60	114.20			64.10	126.70						
23.70	115.90			66.00	127.80						
24.50				68.30							
25.60				70.90							
26.40				73.60							
27.30				76.20							
28.40				79.20							
29.20				82.20							
29.90				84.10							
30.60				87.00							
31.30				91.00							
32.10				95.40							
33.80				99.50							
34.40				102.00							
35.50				104.20							
36.80				105.70							
38.20				108.00							
39.40				109.70							
40.80				110.90							
42.90				111.60							
43.50				112.00							
45.10				112.30							
46.60				112.70							
48.10				112.80							
49.40				112.90							
50.80				113.00							
52.20				113.16							
54.00				113.32							
55.80				113.48							
58.00				113.64							
59.90				113.80							
62.00				113.96							
64.30				114.12							
66.80				114.28							
68.20				114.44							
70.10				114.60							
72.10				114.87							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-45 Y Sta. 68+28 EB OSS 3.8 FT RT FW				9/27-10/1, 10/11-10/13	C-46 Y Sta. 75+08 EB OSS 8.2 FT RT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	10.0 ft Fill	DCP	Cumulative cm per blow	STBC	5.0 ft Fill				
4.10	69.00			1.20	85.50						
7.70	69.60			2.10	88.40						
10.70	70.40			3.40	90.00						
13.90	71.80			4.20	91.00						
18.60	72.40			5.20	92.40						
23.50	73.30			6.10	93.40						
28.60	74.30			7.00	94.50						
34.00	75.40			7.80	95.50						
38.30	76.00			8.60	96.60						
40.90	77.50			9.40	97.60						
42.40	77.80			10.80	98.50						
44.10	79.10			12.20	99.20						
46.60	79.90			13.60	100.10						
49.90	81.30			15.40	101.00						
51.80	82.30			17.30	102.00						
53.40	83.10			18.40	103.10						
54.50	84.40			19.80	103.90						
55.60	85.30			21.10	105.00						
56.90	87.00			23.00	105.80						
58.30	88.20			24.70	106.60						
58.50	89.00			26.00	107.80						
58.80	90.00			26.90	108.90						
59.00	91.00			27.50	110.10						
59.60	92.20			28.90	111.00						
59.70	93.30			30.30	112.10						
59.80	94.50			32.00	113.20						
60.00	95.40			33.10	114.20						
60.16	96.80			33.40	116.10						
60.32	97.90			35.70	117.60						
60.48	99.20			37.10	119.40						
60.64	100.40			38.50	121.40						
60.80	101.90			40.30	123.30						
60.96	103.20			41.70	124.80						
61.12	105.30			42.70	126.00						
61.28	107.50			43.70	127.20						
61.44	109.20			44.70	128.40						
61.60	110.70			45.80	129.50						
61.72	112.20			47.20							
61.84	113.50			48.50							
61.96	114.80			49.50							
62.08	116.20			50.50							
62.20	117.50			51.90							
62.32	118.60			53.40							
62.44	119.70			54.90							
62.56	120.80			56.70							
62.68	122.00			58.60							
62.80	123.00			60.70							
62.90	123.80			63.00							
63.00	124.50			65.00							
63.10				66.20							
63.20				67.40							
63.30				68.30							
63.46				69.50							
63.62				70.50							
63.78				71.80							
63.94				72.90							
64.10				74.00							
64.52				75.50							
64.94				76.80							
65.36				78.20							
65.78				79.30							
66.20				80.50							
66.80				81.70							
67.50				83.10							
68.20				84.70							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-47 Y Sta. 80+18 EB OSS 4.0 FT RT FW				9/27-10/1, 10/11-10/13	C-48 Y Sta. 85+43 EB OSS 9.5 FT RT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	Shoulder Drain	30.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut				
2.60				1.90	86.80						
5.60				3.20	87.30						
7.70				4.30	88.00						
10.60				5.40	88.60						
13.40				6.10	89.30						
24.90				7.40	90.20						
31.10				8.40	91.00						
36.40				9.70	91.70						
41.80				11.10	92.50						
48.50				12.40	93.10						
52.70				13.80	93.80						
55.90				15.80	94.30						
60.20				17.10	94.90						
65.30				18.70	95.70						
70.50				20.30	96.10						
74.10				21.90	96.70						
76.70				23.60	97.20						
79.60				27.90	97.70						
82.00				30.00	98.10						
84.30				32.70	98.70						
85.90				35.40	99.50						
87.60				38.60	99.90						
89.10				41.50	100.70						
90.70				43.80	101.30						
92.00				45.40	102.00						
93.50				46.40	102.60						
94.90				47.50	103.10						
96.10				48.50	103.90						
98.20				49.60	104.50						
99.70				50.70	105.20						
101.40				51.60	105.90						
102.90				52.50	106.60						
104.70				53.60	107.30						
107.30				54.60	108.10						
109.50				55.60	108.70						
112.10				56.60	109.20						
				57.50	109.80						
				59.00	110.20						
				60.00	110.80						
				61.10	111.50						
				62.20	112.40						
				63.40	113.00						
				64.60	113.40						
				65.70	114.00						
				67.00	114.70						
				67.90	115.40						
				69.00	115.90						
				70.30	116.70						
				71.30	117.40						
				71.70	118.00						
				72.70	118.70						
				73.90	119.40						
				74.40	120.00						
				76.00	120.80						
				77.00	121.60						
				77.60	122.50						
				78.70	123.30						
				79.10	124.10						
				80.20	125.00						
				81.20	125.70						
				82.30	126.60						
				83.40	127.30						
				84.20	128.20						
				85.10							
				85.80							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
				Haywood	M. Brewer	C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-49 Y Sta. 87+83 EB ISS 4.0 FT LT FY				9/27-10/1, 10/11-10/13	C-50 Y Sta. 87+83 EB ISL 5.5 FT RT FY				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	15.0 ft Cut	DCP	Cumulative cm per blow	STBC	15.0 ft Cut	DCP	Cumulative cm per blow	STBC	15.0 ft Cut
0.70	65.90			1.20	63.80						
2.50	67.60			2.10	65.50						
3.30	69.70			2.90	67.40						
4.10	71.50			3.40	69.40						
4.70	73.50			4.10	71.30						
5.40	75.30			5.70	73.20						
5.80	77.10			6.50	75.70						
6.60	78.70			7.10	77.60						
7.20	80.30			7.80	79.50						
7.90	82.10			8.30	81.40						
8.40	84.50			8.90	83.10						
9.30	86.10			9.50	84.90						
9.70	87.70			10.00	86.70						
9.90	89.00			10.50	88.70						
11.10	90.40			11.10	91.00						
11.60	91.40			11.60	93.00						
11.90	92.60			12.10	95.00						
12.40	93.70			12.70	97.00						
13.10	94.80			13.20	98.90						
13.60	95.70			13.70	101.00						
14.10	96.70			14.30	103.30						
14.70	97.60			15.20	105.50						
15.20	98.50			15.80	107.70						
15.90	99.20			16.50	109.70						
16.60	99.60			17.30	111.50						
17.40	100.20			18.00	113.50						
18.40	101.00			19.00							
19.40	101.90			19.70							
20.40	102.50			20.40							
21.60	103.00			21.00							
22.80	103.50			21.80							
24.00	103.90			22.70							
25.20	104.00			22.90							
26.60	104.40			23.70							
27.60	104.70			24.00							
27.80	105.10			24.40							
28.70	105.60			25.00							
29.50	106.20			25.60							
30.00	106.50			26.10							
31.10	106.90			27.00							
31.80	107.70			27.70							
32.50	108.10			28.10							
33.40	108.60			29.20							
34.30				30.30							
35.00				31.40							
36.00				32.40							
37.20				33.60							
38.10				34.80							
39.50				35.90							
40.50				36.90							
41.90				38.00							
43.60				39.30							
44.70				40.70							
46.10				42.30							
47.70				44.20							
49.50				45.90							
51.20				47.60							
53.00				49.30							
54.60				51.00							
56.20				52.90							
57.40				55.20							
58.20				57.10							
60.10				58.90							
62.10				60.50							
63.80				62.00							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
				Haywood	M. Brewer	C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-51 Y Sta. 87+84 EB ISML 16.3 FT RT FW				9/27-10/1, 10/11-10/13	C-52 Y Sta. 87+84 EB OSML 13.5 FT LT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	15.0 ft Cut	DCP	Cumulative cm per blow	STBC	15.0 ft Cut	DCP	Cumulative cm per blow	STBC	15.0 ft Cut
0.80	31.20	60.40	89.60					0.90	37.00	61.80	
1.30	32.20	60.70	90.20					1.60	37.20	62.30	
2.10	32.60	61.30	90.80					1.90	37.60	62.70	
2.60	32.80	61.60	91.00					2.60	37.70	63.00	
3.10	33.00	61.90	91.70					2.90	37.90	63.10	
3.40	33.50	62.20	92.10					3.50	38.10	63.40	
3.90	34.50	62.60	92.60					3.90	38.30	63.60	
4.40	35.30	63.00	93.00					4.40	38.50	64.10	
5.20	36.20	63.30	93.50					5.20	39.20	64.30	
5.80	37.00	63.50	94.20					5.60	39.50	64.60	
6.50	37.80	63.90	94.90					6.60	39.90	64.80	
7.00	38.60	64.20	95.40					7.20	40.20	65.00	
7.80	39.50	64.50	96.00					7.70	40.60	65.20	
8.40	40.50	65.00	96.60					8.30	40.90	65.42	
8.80	41.00	65.30	97.50					8.50	41.40	65.64	
9.40	41.50	65.80	98.20					8.80	41.70	65.86	
10.00	42.00	66.00	99.00					9.00	42.10	66.08	
10.50	42.70	66.20						9.60	42.40	66.30	
11.10	43.30	66.30						9.80	42.80	66.56	
11.70	43.80	66.80						10.10	43.00	66.82	
12.50	44.10	67.20						10.60	43.40	67.08	
13.00	44.50	67.90						11.40	43.90	67.34	
13.50	44.80	68.10						11.70	44.40	67.60	
14.00	44.90	68.60						12.30	44.80	67.82	
14.70	45.20	69.50						12.70	45.20	68.04	
15.00	45.30	70.00						13.30	45.70	68.26	
15.40	45.70	70.30						13.90	46.20	68.48	
15.90	45.90	71.00						14.60	46.50	68.70	
16.10	46.50	71.50						15.30	47.20	68.92	
16.70	46.70	71.90						15.80	47.40	69.14	
16.90	47.00	72.20						16.50	47.90	69.36	
17.40	47.50	72.90						17.20	48.30	69.58	
17.80	47.90	73.40						17.90	48.80	69.80	
18.40	48.50	74.70						18.60	49.30	69.90	
18.70	48.80	75.00						19.50	49.70	70.00	
18.80	49.30	75.50						20.10	50.10	70.10	
19.10	49.60	75.80						20.80	50.50	70.20	
19.40	49.80	75.90						21.50	50.90	70.30	
19.80	50.20	76.20						21.80	51.20	70.40	
20.00	50.60	77.10						22.60	51.60	70.50	
20.30	50.90	78.10						23.20	52.00	70.60	
20.50	51.30	78.40						23.80	52.40	70.70	
21.00	51.70	78.60						24.60	52.60	70.80	
21.40	51.80	79.00						25.20	53.40	70.87	
21.50	52.10	79.20						25.70	54.00	70.94	
21.80	52.40	80.00						27.00	54.30	71.01	
21.90	52.60	80.30						27.60	54.70	71.08	
22.50	52.90	80.40						28.10	55.00	71.15	
23.00	53.50	80.70						29.00	55.40	71.22	
23.30	54.10	81.00						29.60	55.70	71.29	
24.00	54.50	81.30						30.00	56.00	71.36	
24.30	54.60	81.90						30.50	56.20	71.43	
24.90	55.00	82.00						31.40	56.70	71.50	
25.30	55.30	82.60						31.60	57.30	71.63	
25.70	55.90	82.80						32.20	57.90	71.76	
26.40	56.30	83.20						32.90	58.60	71.89	
26.70	56.60	83.80						33.40	59.00	72.02	
27.10	57.00	84.00						33.80	59.30	72.15	
27.50	57.30	84.20						34.20	59.70	72.28	
28.00	57.80	85.60						34.60	60.10	72.41	
28.50	58.00	86.30						35.10	60.30	72.54	
29.00	58.80	86.50						35.40	60.50	72.67	
29.50	59.50	87.40						35.70	60.90	72.80	
30.00	59.80	88.10						36.10	61.30	50/3*	
30.60	60.10	88.90						36.70	61.60	DCP REF	

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET										WBS NO.	PROJECT TIP I.D.	ROUTE
										34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)
										COUNTY	FIELD PROFESSIONAL	FIELD CREW
										Haywood	M. Brewer	C. Odom/D. Underwood
Test Location					Date Run	Test Location					Date Run	
C-53 Y Sta. 87+84 EB OSL 2.8 FT LT FW					9/27-10/1, 10/11-10/13	C-54 Y Sta. 87+84 EB OSS 8.2 FT RT FW					9/27-10/1, 10/11-10/13	
Type	Test Interval		Datum		Cut/Fill	Type	Test Interval		Datum		Cut/Fill	
DCP	Cumulative cm per blow		STBC		15.0 ft Cut	DCP	Cumulative cm per blow		STBC		15.0 ft Cut	
1.90	54.10	88.80				1.60	99.40					
3.00	55.00	89.30				2.90	100.60					
4.20	55.70	90.20				3.80	101.50					
5.30	56.80	90.30				4.90	102.60					
6.50	57.00	90.90				5.70	103.50					
7.70	57.70	91.20				6.60	104.00					
8.70	58.40	91.70				7.50	105.10					
9.70	59.10	92.00				8.60	106.20					
11.10	60.00	92.30				9.60	107.10					
12.10	60.90	92.70				10.70	108.10					
13.20	61.40	93.00				12.00	109.00					
14.20	62.10	93.20				13.00	109.90					
15.10	62.80	93.40				15.10	110.50					
16.10	63.80	93.60				16.70	111.30					
16.90	64.70	93.80				18.50	112.10					
17.80	65.70	94.10				20.50	112.80					
18.50	66.40	94.30				22.30	113.30					
19.20	67.50	94.60				24.50	114.00					
19.90	68.20	94.90				26.40	114.50					
20.30	69.30	95.10				28.90	115.20					
20.80	70.00	95.30				31.30	115.90					
21.50	70.80	95.70				33.90	116.50					
22.00	71.50	96.00				36.40	118.00					
22.50	72.10	96.20				39.40	118.80					
23.20	72.70	96.60				41.70	119.60					
23.80	73.30	96.80				44.00	120.50					
24.40	73.80	97.10				46.10	121.30					
24.80	74.20	97.40				47.60	122.10					
25.50	75.00	97.70				49.00	123.00					
26.10	75.20	98.00				50.20	123.80					
26.70	75.70	98.30				51.80	124.60					
27.20	76.30	98.80				52.70	125.50					
28.10	76.60	99.10				54.00	126.20					
28.80	77.30	99.50				55.10	126.90					
29.50	77.80	100.10				56.70	127.80					
30.40	78.30	100.50				58.30	128.40					
31.10	78.80	100.80				59.80	128.80					
31.90	79.20	101.40				61.00	130.40					
32.60	79.50	101.70				62.40						
33.40	79.90	102.10				63.40						
34.50	80.40					64.60						
35.50	80.60					65.50						
36.50	81.10					66.60						
37.50	81.50					68.00						
38.40	81.90					69.40						
39.20	82.50					70.50						
40.20	82.70					71.60						
40.90	83.00					72.80						
42.00	83.50					74.00						
42.90	83.80					75.20						
43.90	84.20					76.30						
44.80	84.60					77.50						
45.50	84.80					78.90						
46.30	85.10					80.20						
46.90	85.50					81.70						
47.60	85.70					83.20						
48.40	86.10					84.90						
49.00	86.40					86.50						
49.50	86.70					88.00						
50.50	87.00					89.90						
50.80	87.30					91.70						
52.30	87.60					93.50						
52.40	87.90					95.20						
52.50	88.20					96.80						
53.40	88.60					98.20						

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET										WBS NO.	PROJECT TIP I.D.	ROUTE
										34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)
										COUNTY	FIELD PROFESSIONAL	FIELD CREW
										Haywood	M. Brewer	C. Odom/D. Underwood
Test Location					Date Run	Test Location					Date Run	
C-55 Y_EB Sta. 10+59 EB OSS 4.0 FT RT FW					9/27-10/1, 10/11-10/13	C-57 Y_EB Sta. 15+83 EB OSS 10.0 FT RT FW					9/27-10/1, 10/11-10/13	
Type	Test Interval		Datum		Cut/Fill	Type	Test Interval		Datum		Cut/Fill	
DCP	Cumulative cm per blow		STBC		10.0 ft Fill	DCP	Cumulative cm per blow		Subgrade (A-4)		30.0 ft Cut	
1.60	42.10	93.50				3.10	97.30					
2.50	42.70	95.30				6.40	97.60					
3.50	43.20	97.20				9.20	98.10					
4.20	43.50	99.00				11.90	98.40					
5.20	44.00	101.00				15.40	98.70					
6.00	44.50	102.50				19.50	99.20					
6.60	44.90	104.20				24.00	99.80					
7.40	45.50	105.80				28.50	100.40					
8.30	46.00					34.00	100.70					
9.20	46.80					42.60	101.30					
10.00	47.40					46.20	101.90					
10.80	48.00					48.20	102.60					
11.70	48.50					49.90						
12.60	49.30					51.40						
13.70	49.80					52.10						
14.60	50.30					54.40						
15.50	50.90					56.20						
16.50	51.50					57.60						
17.40	51.80					58.90						
17.80	52.20					60.30						
18.00	52.50					61.60						
18.40	53.10					62.80						
18.60	53.70					64.00						
19.40	54.30					65.70						
20.30	54.70					67.40						
21.40	55.40					68.80						
22.20	55.90					70.30						
23.00	56.50					71.30						
23.70	57.00					72.30						
24.20	57.50					73.10						
24.70	58.20					74.10						
25.60	59.10					74.70						
26.00	60.00					75.80						
26.80	60.70					76.30						
27.50	61.30					77.20						
28.30	62.30					77.80						
28.60	63.10					78.40						
29.00	64.00					79.00						
29.50	65.40					79.90						
30.00	66.50					80.40						
30.50	67.70					81.00						
31.20	68.40					81.60						
31.40	69.40					82.40						
31.60	70.00					82.80						
31.70	71.00					83.30						
32.20	71.90					84.40						
32.70	72.60					85.00						
33.10	73.10					85.50						
33.30	74.50					86.00						
33.90	75.30					87.00						
34.50	76.40					87.60						
35.00	77.30					88.40						
35.80	77.90					89.10						
36.50	78.80					90.00						
36.90	79.40					90.60						
37.50	80.30					91.80						
38.00	81.20					92.20						
38.40	82.30					93.70						
38.70	83.40					94.30						
38.90	84.30					94.60						
39.30	85.30					95.20						
39.60	86.50					95.60						
40.00	88.20					96.10						
40.80	90.00					96.50						
41.50	91.70					96.90						

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET										WBS NO.	PROJECT TIP I.D.	ROUTE		
										34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)		
Test Location										DATE RUN	FIELD PROFESSIONAL	FIELD CREW		
C-56 Y_EB Sta. 15+85 EB ISS 1.7 FT LT FY										9/27-10/1, 10/11-10/13	M. Brewer	C. Odom/D. Underwood		
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		30.0 ft Cut	DCP	Cumulative cm per blow	Subgrade (A-4)		30.0 ft Cut	DCP	Cumulative cm per blow	Subgrade (A-4)		30.0 ft Cut
0.90	14.05	11.10	60.40		1.40	92.90								
1.80	14.08	11.40	61.90		2.50	93.50								
2.40	14.10	12.10	63.20		3.40	94.50								
2.70	14.13	12.80	64.90		4.40	95.70								
3.40	14.15	13.40	66.70		5.90	96.80								
3.80	14.18	14.20	68.40		7.40	97.70								
4.40	14.20	14.70	70.00		8.50	98.90								
4.90	14.23	15.20	71.30		9.80	100.30								
5.50	14.25	15.80	72.50		11.30	101.50								
5.80	14.28	16.50	74.00		12.50	102.60								
6.20	14.30	17.20	75.00		14.00	104.00								
6.70	14.33	18.10	76.20		15.30	105.40								
7.20	14.35	18.80	77.40		18.10	106.60								
7.60	14.38	19.50	78.50		18.70	108.20								
8.10	14.40	20.10	79.70		20.90	109.40								
8.50	50/0*	21.00	80.80		22.20	110.70								
8.90	DCP REF	21.50	81.70		23.90	111.80								
9.20	AUGER	22.50	82.80		25.60									
9.50	7.8 CM	23.00	83.60		27.40									
9.90	TO 22.2	23.50	84.60		28.90									
10.10	0.50	24.10	85.40		30.50									
10.40	0.70	24.90	86.60		31.60									
10.70	0.80	25.30	87.70		32.80									
11.20	1.00	26.40	88.80		34.30									
11.60	1.08	27.20	89.90		35.90									
11.90	1.16	27.80	91.20		37.50									
12.00	1.24	28.40	92.40		39.10									
12.30	1.32	29.20	93.50		41.10									
12.60	1.40	30.10	95.00		42.80									
12.80	1.48	30.70	96.10		44.50									
12.84	1.56	31.50	98.00		46.40									
12.88	1.64	32.20	99.30		47.90									
12.92	1.72	32.80	100.20		49.60									
12.96	1.80	33.60	101.10		51.10									
13.00	1.94	34.30	101.80		52.70									
13.04	2.08	35.10			53.80									
13.08	2.22	37.00			55.30									
13.12	2.36	37.90			56.30									
13.16	2.50	38.80			57.80									
13.20	2.64	39.70			58.90									
13.24	2.78	40.60			60.00									
13.27	2.92	41.40			61.40									
13.31	3.06	42.20			64.00									
13.34	3.20	42.70			65.50									
13.38	3.43	43.40			66.00									
13.41	3.66	44.00			67.50									
13.45	3.89	45.00			68.90									
13.48	4.12	45.70			70.60									
13.52	4.35	46.50			72.00									
13.55	4.58	47.00			73.30									
13.59	4.81	47.80			74.80									
13.62	5.04	48.40			76.00									
13.66	5.27	49.10			77.10									
13.69	5.50	49.60			78.60									
13.73	5.90	50.20			79.70									
13.76	6.20	51.10			80.80									
13.80	6.60	51.90			82.30									
13.83	6.90	52.70			83.50									
13.87	7.40	53.50			84.50									
13.90	7.80	54.50			85.80									
13.93	8.50	55.20			87.00									
13.95	9.00	56.00			88.10									
13.98	9.50	57.20			89.20									
14.00	9.90	58.10			90.30									
14.03	10.40	59.20			91.50									

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET										WBS NO.	PROJECT TIP I.D.	ROUTE		
										34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)		
Test Location										DATE RUN	FIELD PROFESSIONAL	FIELD CREW		
C-59 Y_EB Sta. 20+65 EB OSS 5.5 FT RT FW										9/27-10/1, 10/11-10/13	M. Brewer	C. Odom/D. Underwood		
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		40.0 ft Cut	DCP	Cumulative cm per blow	STBC		40.0 ft Cut	DCP	Cumulative cm per blow	STBC		10.0 ft Fill
0.40	82.80				2.60	81.50								
0.90	84.10				4.20	82.40								
1.60	85.40				5.60	83.40								
2.10	86.60				6.30	84.10								
2.50	88.10				7.80	84.90								
3.00	89.30				9.10	85.90								
3.40	90.90				10.60	86.20								
3.90	92.40				12.40	87.00								
4.20	93.80				14.40	87.80								
4.70	94.80				16.40	88.40								
5.40	96.10				18.10	89.00								
5.80	97.10				19.40	89.80								
6.30	98.60				20.80	90.60								
6.90	100.00				22.00	91.30								
7.20	101.30				23.00	92.10								
7.60	102.50				24.20	93.00								
8.10	103.80				25.60	93.50								
8.70	105.20				27.50	94.40								
9.20	106.20				29.20	95.20								
9.70	107.50				31.20	96.20								
10.30	108.50				33.10	97.10								
11.10	109.50				34.60	97.80								
11.60	110.60				36.30	98.80								
12.30	111.70				37.60	99.20								
13.00	112.20				39.00	100.10								
13.50	113.90				40.10	101.00								
14.70	114.90				41.50	102.00								
15.90	116.00				43.00	102.80								
17.20	116.90				44.40	103.70								
18.40	117.80				45.80	104.70								
19.80	118.80				47.30									
21.40	119.90				48.60									
23.30	121.00				49.60									
25.30	122.20				51.00									
27.30	123.30				52.10									
28.40	124.20				53.10									
30.30	124.90				54.40									
31.70	125.90				55.50									
33.20	127.10				56.40									
35.40	128.00				57.70									
37.60					58.60									
39.40					59.50									
41.10					60.40									
43.20					61.20									
45.40					62.10									
48.60					63.20									
51.50					64.00									
53.80					64.60									
56.40					65.30									
58.60					66.00									
60.20					66.80									
62.50					67.80									
64.50					68.50									
66.40					69.50									
68.40					70.30									
70.40					71.40									
72.00					72.40									
73.90					73.20									
75.70					74.30									
77.50					75.30									
78.90					76.30									

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-62 Y_EB Sta. 25+60 EB ISML 17.3 FT RT FY				9/27-10/1, 10/11-10/13	C-65 Y_EB Sta. 25+60 EB OSS 3.0 FT RT FW				9/27-10/1, 10/11-10/13
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		10.0 ft Fill	DCP	Cumulative cm per blow	STBC		5.0 ft Cut
1.50	54.50	113.20			1.40	42.30	134.30		
2.10	55.20	113.90			2.20	43.40	136.00		
2.80	55.70	114.80			2.60	44.50	138.00		
3.10	56.50	115.60			2.90	45.60	139.80		
3.70	57.00	116.30			3.20	46.50	141.60		
4.00	57.60	117.00			3.60	47.40	143.30		
4.50	58.30	117.80			3.80	48.90			
4.80	58.90	118.60			4.10	50.50			
5.50	59.70	119.30			4.40	52.20			
6.10	60.40	120.00			4.70	53.50			
6.50	61.20	120.90			5.00	54.80			
6.90	61.90	121.60			5.20	55.90			
7.50	62.60	122.20			5.60	56.90			
8.00	63.20	122.90			5.90	58.10			
8.60	63.90	123.50			6.20	59.30			
9.20	64.50	124.10			6.40	60.20			
9.90	65.30	124.70			6.70	61.60			
10.40	66.10	125.50			7.00	63.00			
11.30	66.70	125.90			7.20	64.20			
11.80	67.10	126.40			7.50	65.50			
12.50	67.60	127.10			7.80	66.70			
13.20	68.40	127.60			8.20	68.20			
13.60	69.10	128.30			8.50	70.00			
14.30	70.10	128.90			8.90	71.20			
14.90	71.10	129.60			9.30	73.00			
15.50	72.00	130.30			9.60	74.70			
16.20	72.90	130.90			9.80	76.70			
17.20	74.10	131.50			10.30	78.50			
18.00	75.00	132.20			10.70	80.30			
19.20	76.00	132.30			11.10	81.20			
20.50	76.90	132.80			11.40	83.50			
21.60	77.90				12.00	84.90			
22.70	78.90				12.40	86.30			
23.50	79.80				12.70	87.50			
24.70	81.30				13.10	88.30			
25.80	82.50				13.60	89.60			
26.80	83.50				14.10	90.50			
27.90	84.70				14.60	91.80			
29.00	85.60				15.00	93.00			
30.20	86.60				15.50	94.10			
31.40	87.50				16.10	95.20			
32.80	88.50				16.60	96.40			
34.20	89.60				17.20	97.90			
35.30	90.70				17.70	99.50			
36.60	91.70				18.40	101.50			
37.80	92.70				19.00	103.30			
39.00	94.00				19.90	104.90			
40.20	95.20				20.80	106.60			
41.40	96.40				21.70	108.30			
42.60	97.50				22.70	110.00			
43.40	98.80				23.90	111.70			
44.30	99.90				25.20	113.30			
45.10	101.00				26.60	114.90			
45.90	101.90				28.10	116.20			
46.70	102.80				29.30	117.70			
47.50	103.80				31.00	118.90			
48.30	104.40				32.40	120.40			
49.00	105.90				34.80	122.10			
49.80	106.90				35.00	123.70			
50.50	107.80				36.10	125.30			
51.20	108.70				37.30	126.60			
51.80	109.60				38.30	128.20			
52.40	110.60				39.40	129.70			
53.00	111.40				40.30	131.10			
53.70	112.40				41.30	132.70			

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE			
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)			
				COUNTY	FIELD PROFESSIONAL	FIELD CREW			
				Haywood	M. Brewer	C. Odom/D. Underwood			
Test Location				Date Run	Test Location				Date Run
C-60 Y_EB Sta. 25+61 EB ISS 2.5 FT LT FY				9/27-10/1, 10/11-10/13	C-63 Y_EB Sta. 25+61 EB OSML 16.8 FT LT FW				9/27-10/1, 10/11-10/13
Type	Test Interval	Datum		Cut/Fill	Type	Test Interval	Datum		Cut/Fill
DCP	Cumulative cm per blow	STBC		10.0 ft Fill	DCP	Cumulative cm per blow	STBC		5.0 ft Fill
1.90					1.60	70.50			
2.40					3.00	71.80			
3.30					4.10	72.50			
4.00					5.40	73.60			
4.80					6.40	74.50			
5.60					7.40	75.50			
6.30					8.30	76.20			
6.90					9.50	77.10			
7.60					10.60	77.90			
8.30					11.60	79.20			
9.50					12.90	80.40			
10.40					13.10	81.40			
11.40					15.60	82.50			
12.40					16.90	83.60			
13.70					18.40	84.60			
14.80					19.80	85.60			
16.20					21.30	86.80			
17.80					22.80	87.60			
19.90					24.10	89.20			
22.10					25.30	90.50			
24.30					26.60	91.90			
27.00					27.50	93.30			
30.80					28.60	94.70			
35.20					30.00	95.90			
40.50					30.90	97.20			
44.70					31.80	98.20			
48.70					32.80	99.40			
52.80					33.80	100.30			
56.20					35.10	101.40			
60.30					36.30	102.50			
65.40					37.10	103.40			
69.00					38.20	104.00			
71.40					39.60	104.80			
74.00					40.60	105.70			
77.20					41.50	106.10			
80.80					42.60	106.70			
83.40					43.30	107.70			
85.50					44.20	108.30			
87.50					44.90	109.20			
89.30					45.70	110.00			
91.40					46.80	111.10			
93.80					47.30	112.00			
95.90					48.30	113.10			
98.20					49.00	114.40			
101.40					49.90	115.50			
					50.80				
					51.70				
					52.50				
					53.40				
					54.30				
					55.20				
					56.00				
					57.10				
					58.10				
					59.20				
					60.40				
					61.50				
					62.40				
					63.40				
					64.40				
					65.70				
					66.80				
					67.90				
					68.70				
					69.80				

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
				Haywood	M. Brewer	C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-64 Y_EB Sta. 25+61 EB OSL 4.7 FT LT FW				9/27-10/1, 10/11-10/13	C-66 Y_EB Sta. 31+04 EB ISS 4.0 FT LT FY				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	5.0 ft Fill	DCP	Cumulative cm per blow	STBC	10.0 ft Cut				
0.70	63.80			1.20	74.20						
1.10	65.30			1.80	76.20						
1.40	67.00			2.20	78.00						
1.70	68.90			3.60	80.60						
2.00	71.00			4.10	82.70						
2.40	73.20			4.60	85.10						
2.70	75.40			5.40	87.30						
3.10	77.70			6.00	89.50						
3.30	79.90			6.50	91.50						
3.60	82.10			7.20	93.70						
3.90	84.40			7.80	95.80						
4.20	86.60			8.40	98.10						
4.70	89.00			9.20	100.40						
5.10	90.50			9.90	102.90						
5.70	92.50			10.30	105.30						
6.10	94.30			11.10	108.00						
6.60	95.90			11.90	110.30						
7.00	97.40			12.70	112.30						
7.80	98.90			13.50	114.00						
8.10	100.60			14.30	115.80						
8.60	102.00			15.00	118.00						
9.20	103.50			15.40	120.50						
9.60	104.90			16.70	123.50						
10.00	106.40			18.00	125.70						
10.70	108.00			19.30	128.20						
11.40	109.50			20.10	129.60						
12.30	110.90			21.30	130.60						
13.40	112.50			22.40							
14.30	114.00			23.60							
14.90	115.90			24.90							
15.90	117.90			26.20							
16.60	120.20			27.30							
17.30	122.30			28.40							
17.90	124.10			30.00							
18.60				31.20							
19.70				32.50							
21.00				33.70							
22.30				34.90							
23.30				36.20							
24.50				37.10							
25.80				38.30							
27.00				39.60							
28.30				41.20							
29.60				42.50							
31.10				43.70							
32.20				45.50							
33.50				46.90							
35.00				48.30							
36.50				49.60							
38.00				51.10							
39.10				52.70							
41.30				53.90							
42.90				55.30							
44.60				57.00							
46.20				58.00							
48.10				59.10							
50.10				60.20							
52.10				61.40							
54.00				63.00							
55.90				64.70							
57.30				66.30							
58.20				68.50							
60.00				70.50							
61.20				72.00							
62.60				73.30							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
				Haywood	M. Brewer	C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-67 Y_EB Sta. 31+04 EB OSS 7.5 FT RT FY				9/27-10/1, 10/11-10/13	C-68 Y_EB Sta. 36+17 EB ISS 1.7 FT LT FY				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	At Grade	DCP	Cumulative cm per blow	STBC	5.0 ft Fill				
1.00	43.70	132.00		1.50	95.60	126.40					
1.70	45.70	132.40		2.10	95.80	127.00					
1.80	47.90	132.80		2.30	96.00	127.80					
2.20	50.30	133.30		2.80	96.40						
2.50	52.10	133.70		3.10	96.60						
3.10	53.50	134.00		3.50	97.00						
3.40	55.00	134.40		4.30	97.40						
3.60	56.70	134.70		4.80	97.80						
3.90	58.30	135.40		5.40	98.20						
4.30	60.50			6.00	98.70						
4.70	62.60			6.60	99.40						
4.90	64.70			7.30	99.90						
5.40	66.30			7.90	100.50						
5.80	68.40			8.80	100.90						
5.90	70.20			9.40	101.50						
6.20	72.20			10.40	102.00						
6.50	74.10			11.00	102.50						
6.70	75.60			12.10	102.90						
7.30	77.00			13.10	103.30						
7.40	78.60			14.10	103.80						
7.80	80.50			15.50	104.40						
8.30	83.40			17.10	104.80						
8.50	86.80			19.00	105.50						
9.20	90.00			20.40	106.00						
9.40	94.50			21.80	106.50						
9.80	99.60			23.60	107.00						
10.00	100.90			25.20	107.50						
10.20	102.40			26.40	107.60						
10.50	103.60			28.40	108.40						
11.10	105.30			30.30	109.00						
11.60	107.20			32.40	109.50						
12.30	109.00			34.50	110.00						
12.90	111.50			36.40	110.60						
13.60	113.30			38.10	110.90						
13.90	115.10			40.00	111.40						
14.00	116.30			42.10	111.90						
14.20	117.40			44.00	112.30						
14.70	118.10			45.70	112.60						
15.60	119.10			47.50	113.60						
16.20	119.70			49.70	114.30						
16.40	120.40			52.00	114.70						
16.90	120.90			54.00	115.20						
17.80	121.80			55.80	115.70						
18.30	122.00			57.50	116.40						
18.70	123.10			59.30	116.70						
19.50	123.70			61.10	117.10						
19.70	124.30			63.10	117.60						
20.70	124.70			65.00	117.80						
21.90	125.40			66.50	118.20						
22.60	125.70			68.30	118.50						
23.50	126.10			70.40	118.90						
25.50	126.60			72.30	119.50						
25.60	127.20			74.30	119.80						
26.70	127.50			75.70	120.40						
27.90	127.90			77.80	120.80						
28.90	128.30			80.40	121.40						
30.10	128.70			82.70	121.90						
31.40	129.00			85.00	122.40						
32.80	129.50			87.20	122.90						
34.10	129.60			89.50	123.20						
35.50	130.00			92.00	123.80						
36.90	130.40			94.00	124.30						
38.40	130.90			94.60	124.80						
39.80	131.30			94.80	125.30						
41.10	131.70			95.30	126.00						

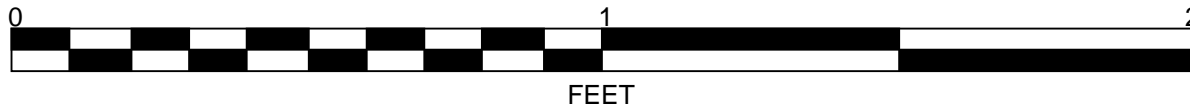
I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

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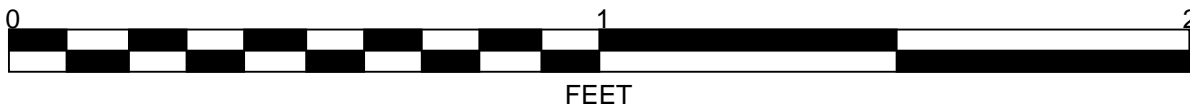
C-28 Y Sta. 19+19 EB OSS



C-29 Y Sta. 23+92 EB OSS



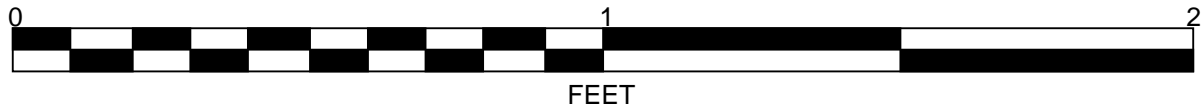
C-32 Y Sta. 30+94 EB MID-LANE



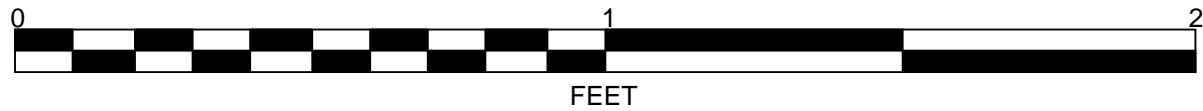
C-33 Y Sta. 30+94 EB OSL



C-33 Y Sta. 30+94 EB OSL (continued)

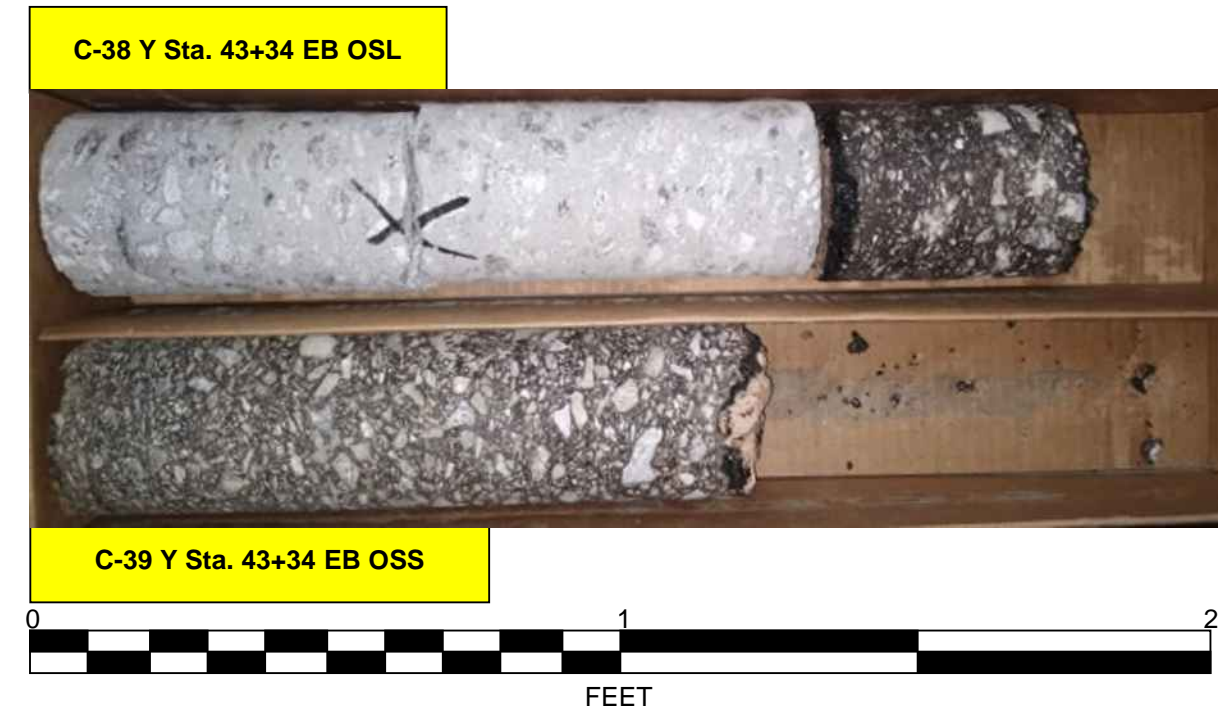
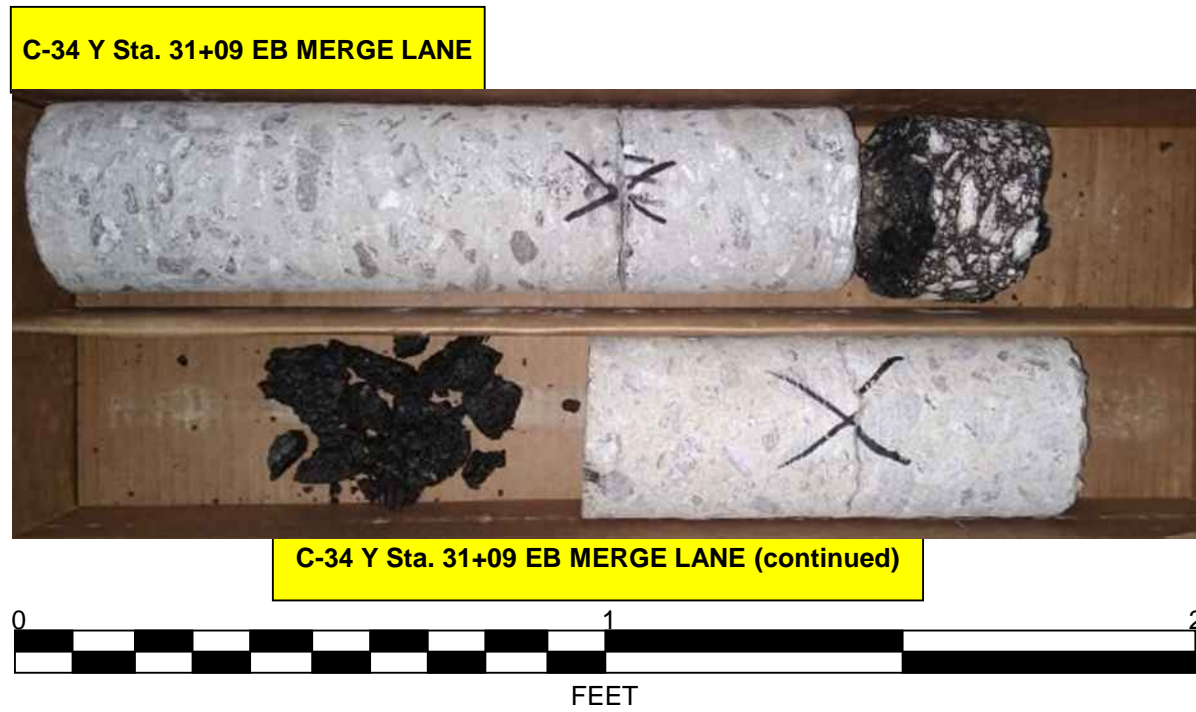
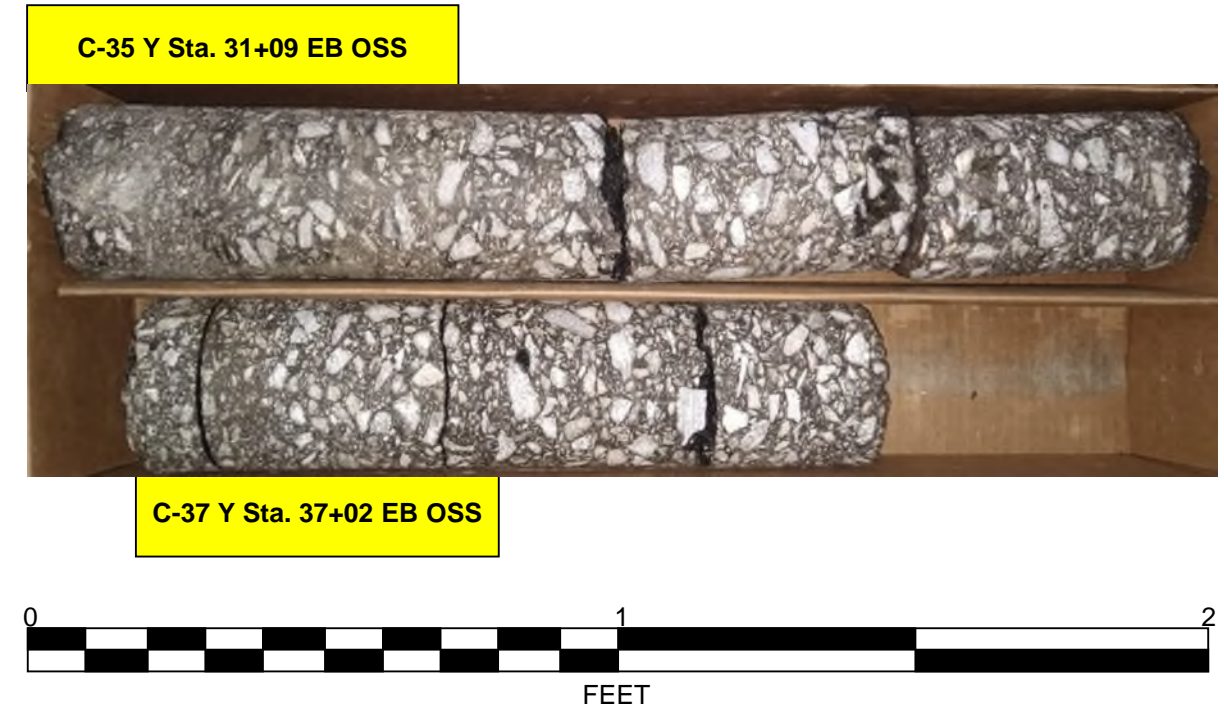
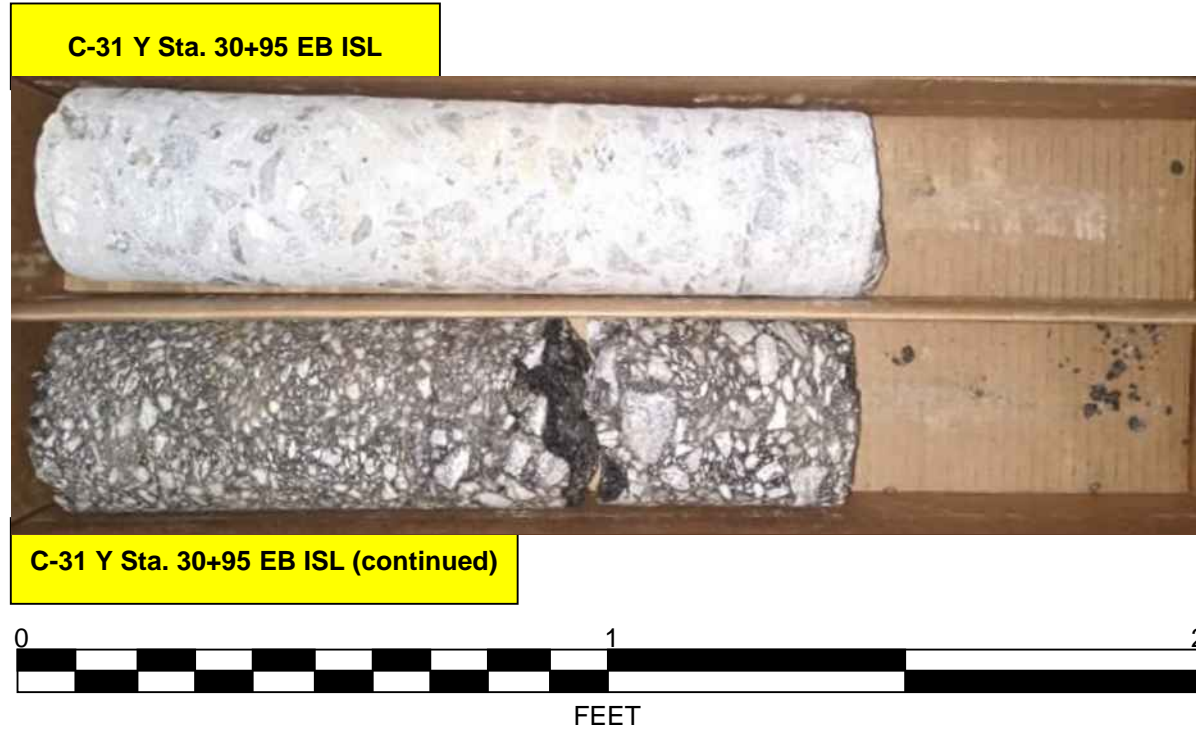


C-30 Y Sta. 30+95 EB ISS



I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

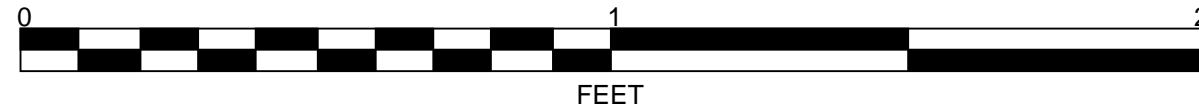
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I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs

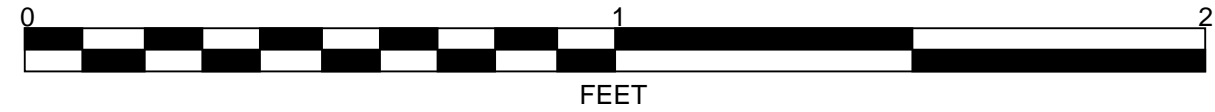
C-40 Y Sta. 48+83 EB OSS



C-42 Y Sta. 58+86 EB OSL



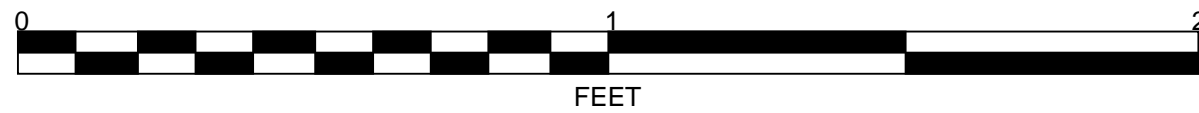
C-42 Y Sta. 58+86 EB OSL (continued)



C-41 Y Sta. 58+86 EB OSML



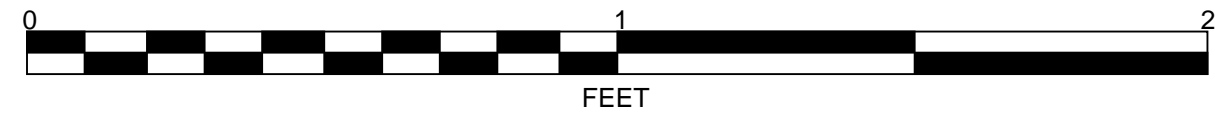
C-41 Y Sta. 58+86 EB OSML (continued)



C-43 Y Sta. 58+86 EB OSS

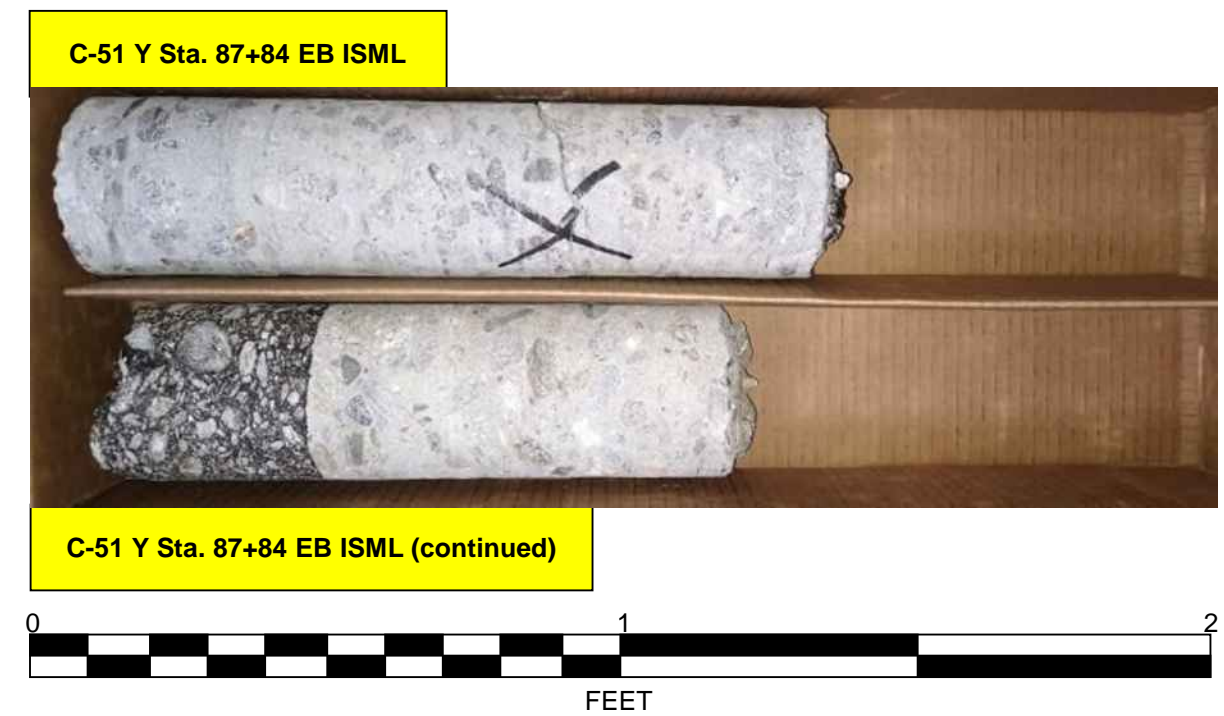
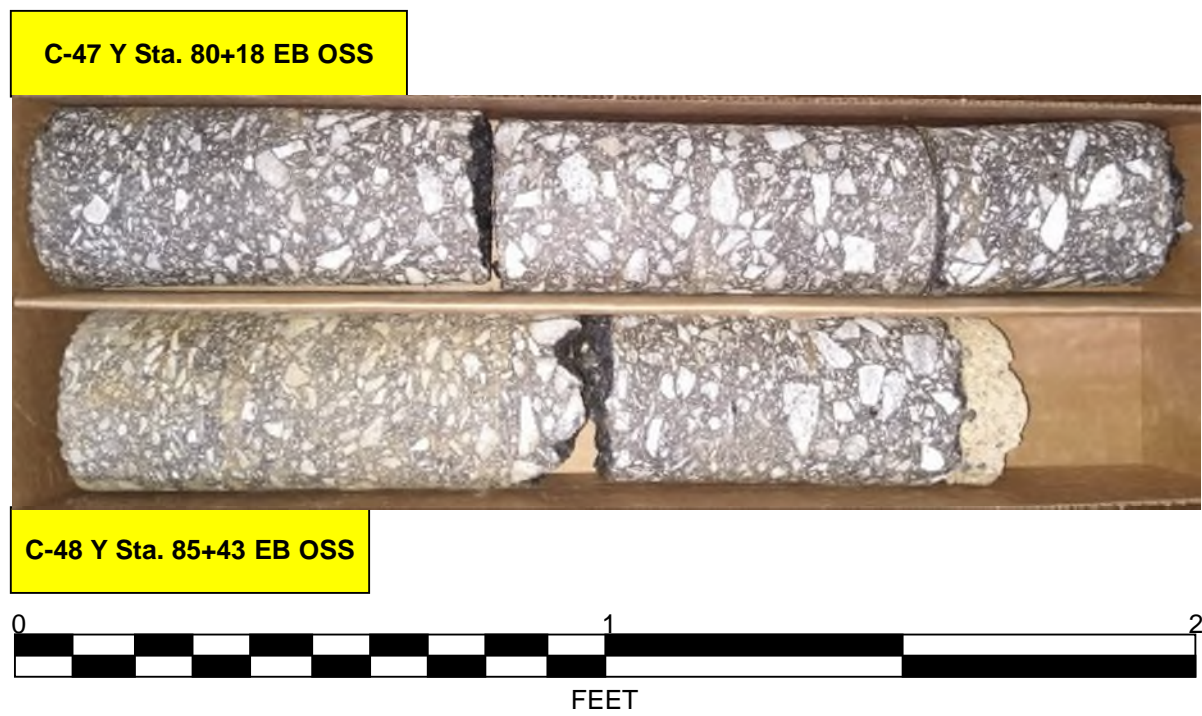
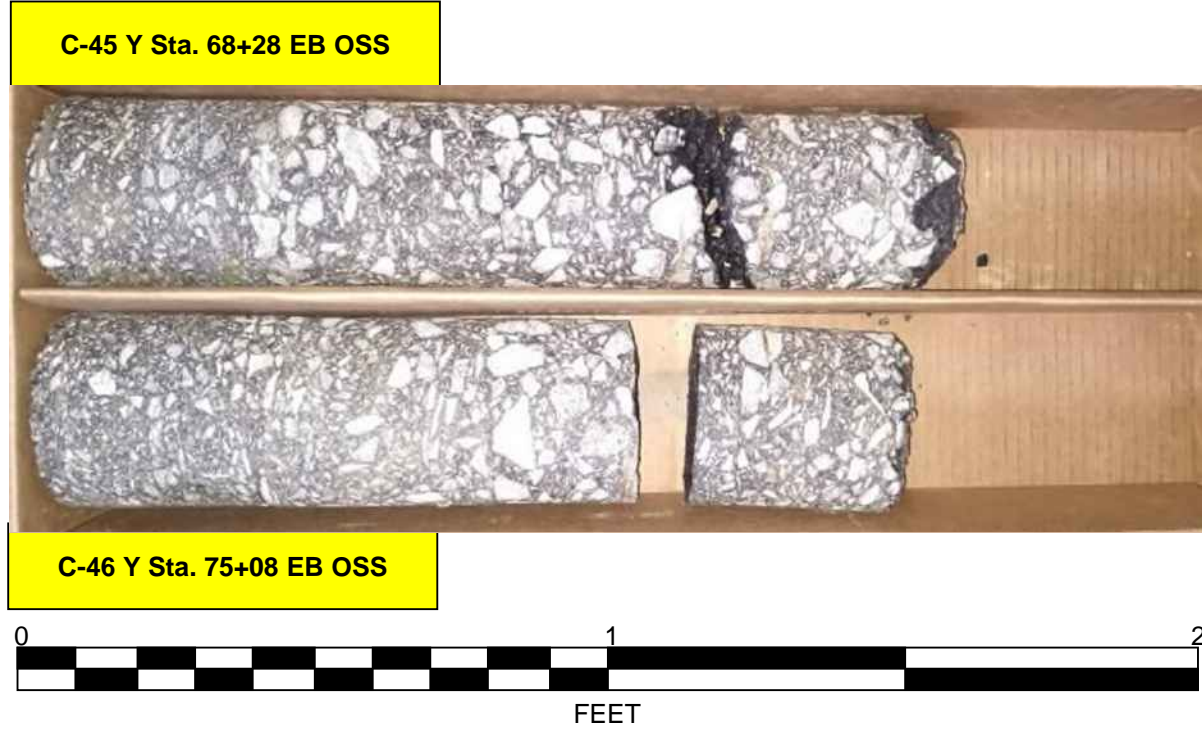


C-44 Y Sta. 63+48 EB OSS



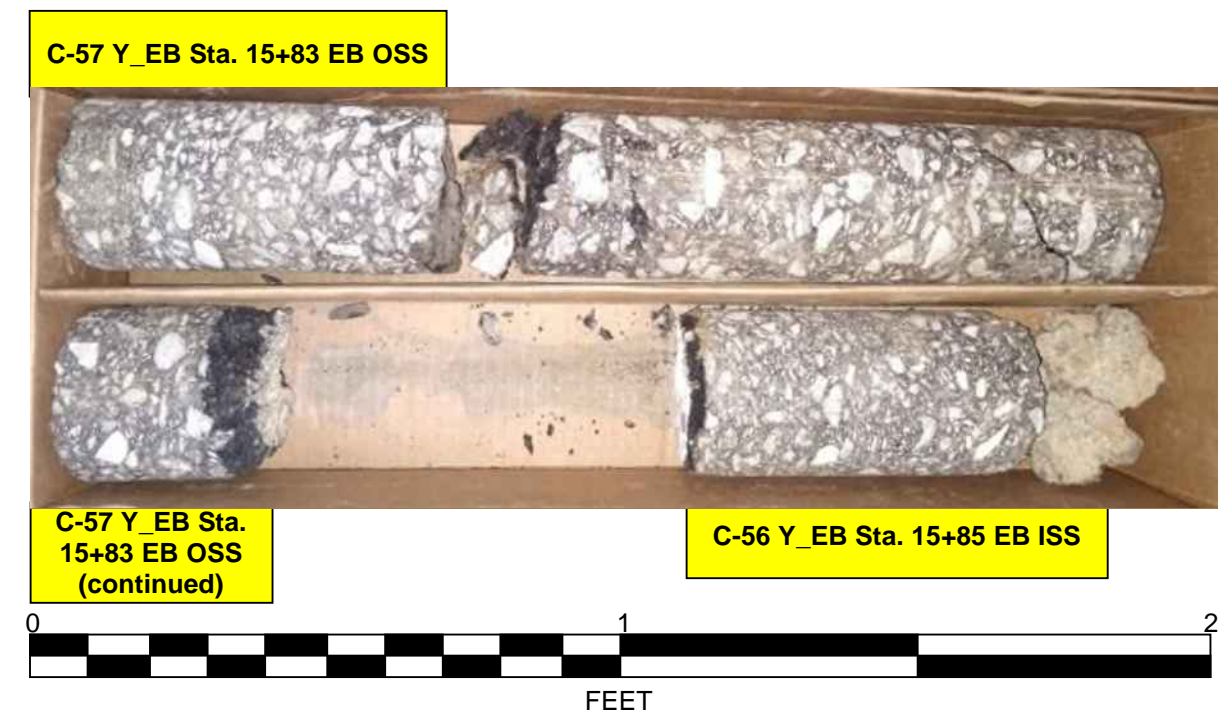
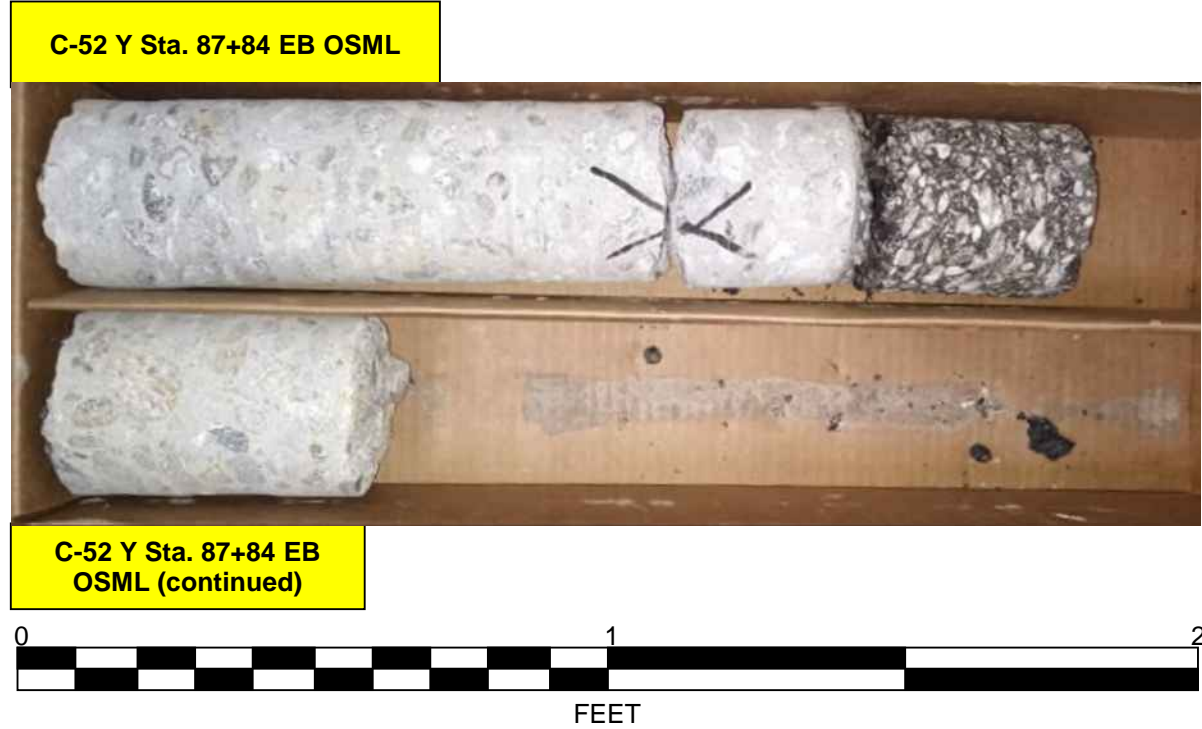
I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

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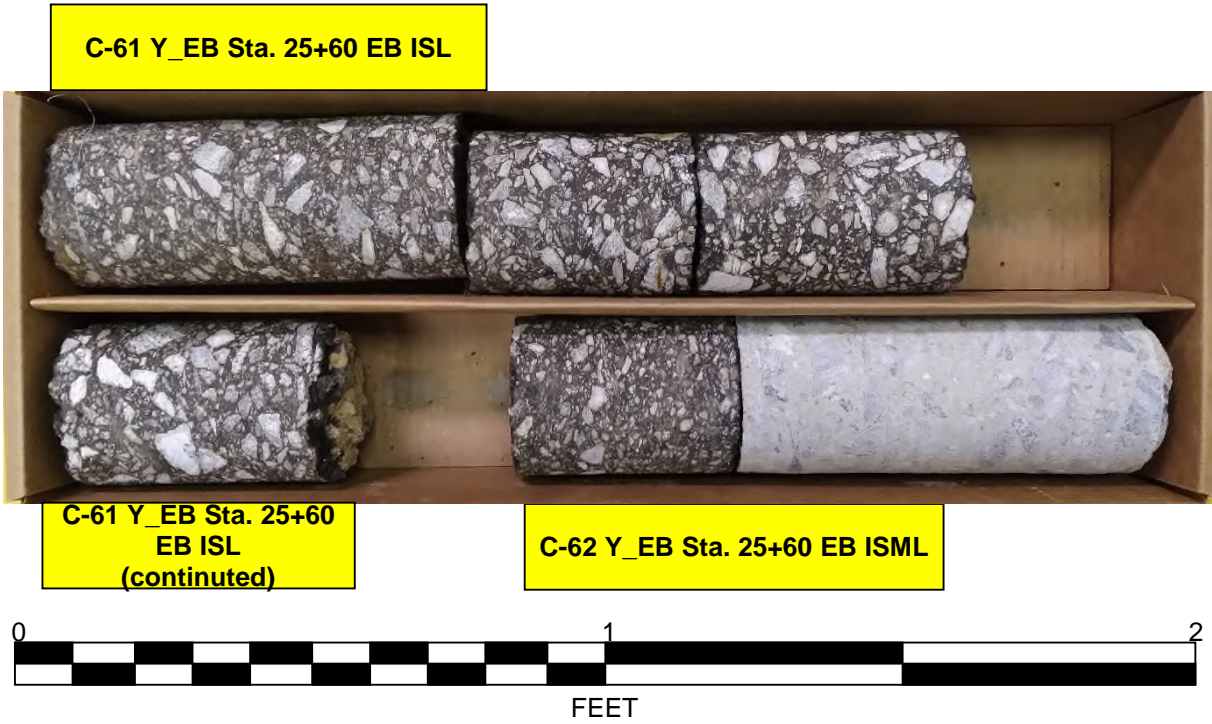
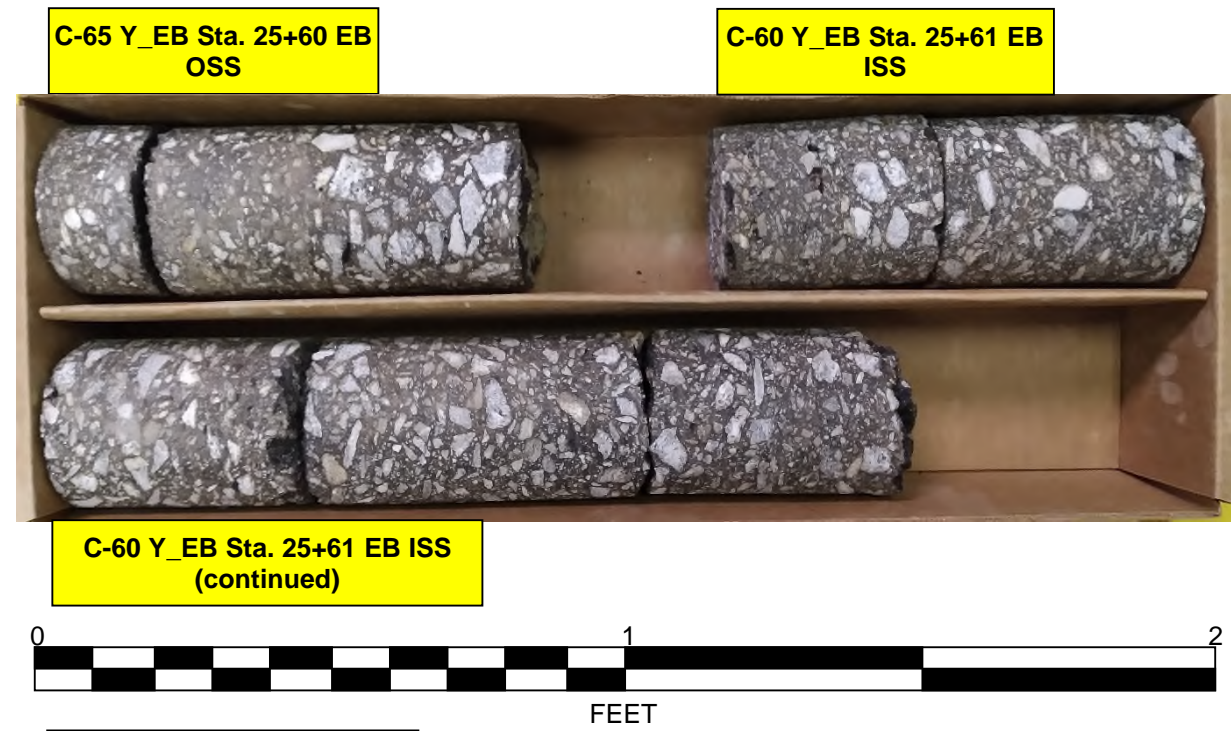
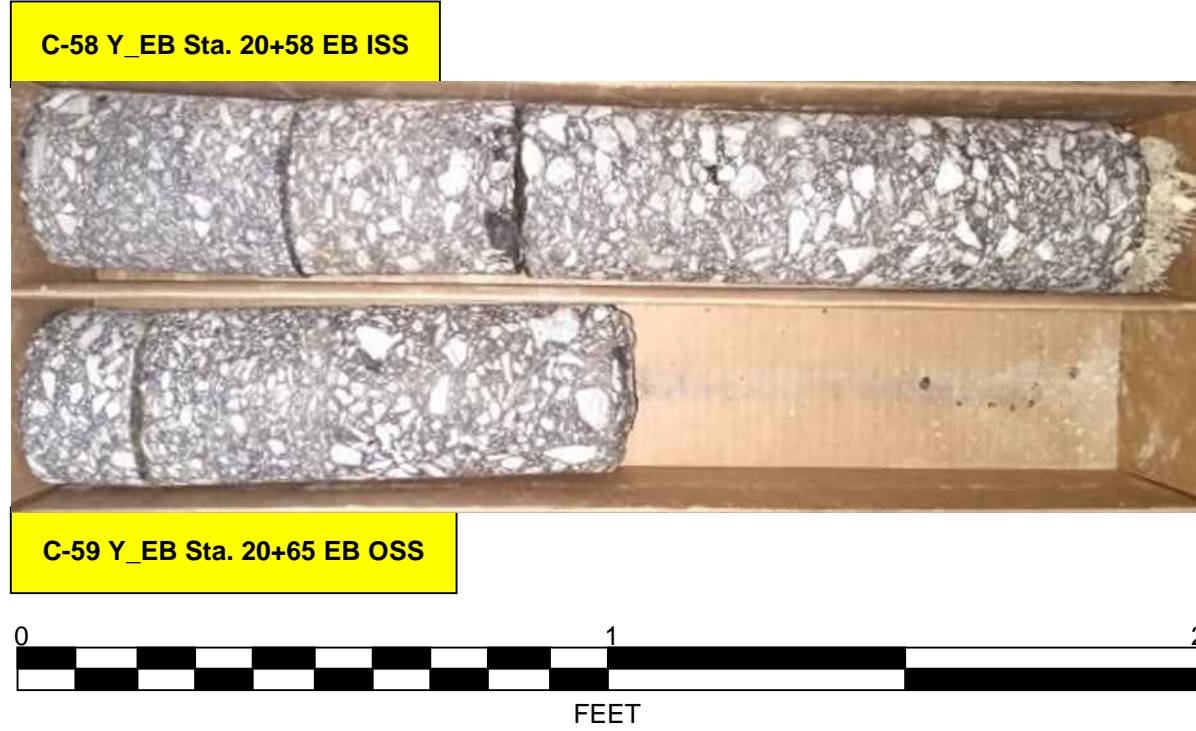
I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



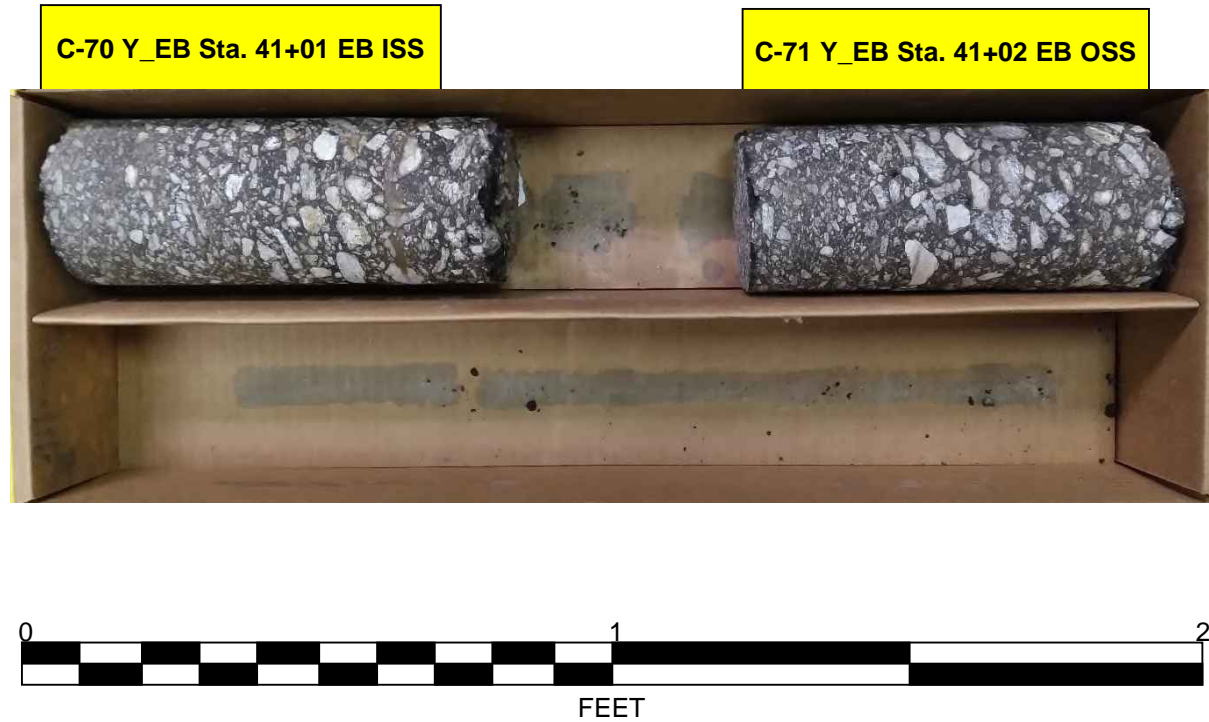
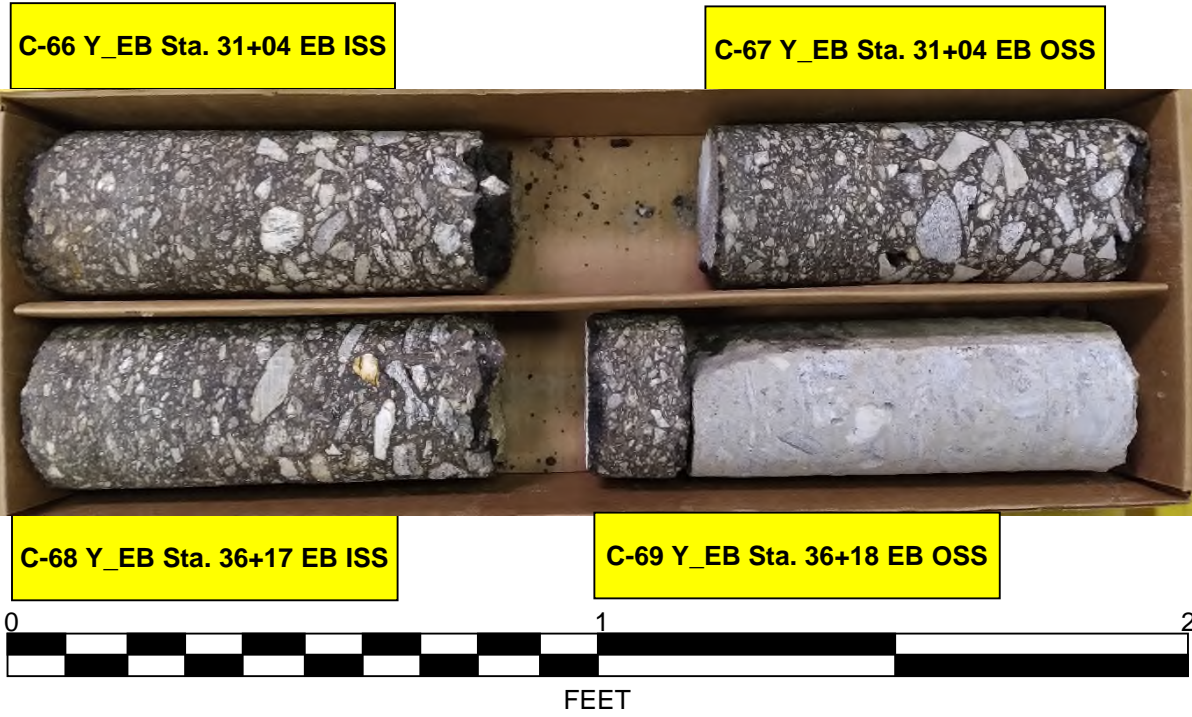
I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



SOIL TEST RESULTS

SAMPLE NO.	ALIGNMENT	LANE	OFFSET	STATION	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
									C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-28	Y	EB OSS	4.1 RT FW	19+19	2.9-5.0	A-4(0)	35	NP	20.2%	31.8%	27.9%	20.1%	92.8%	81.5%	51.2%	15.8%	ND
S-29	Y	EB OSS	3.7 RT FW	23+92	2.7-5.0	A-2-5	42	8	33.2%	33.5%	23.3%	10.0%	88.2%	71.1%	34.4%	17.2%	ND
S-30	Y	EB ISS	2.0 LT FY	30+95	3.0-5.0	A-4(3)	39	9	22.2%	22.5%	27.1%	28.1%	90.8%	77.7%	53.9%	15.4%	ND
S-34	Y	EB MERGE LANE	4.0 LT FW	31+09	2.7-5.0	A-4(0)	35	NP	20.9%	52.0%	21.1%	6.0%	99.3%	90.4%	35.8%	6.3%	ND
S-37	Y	EB OSS	8.5 RT FW	37+02	2.4-5.0	A-4(0)	36	6	35.2%	24.6%	19.8%	20.4%	85.1%	64.0%	38.2%	15.6%	ND
S-39	Y	EB OSS	4.3 RT FW	43+34	1.3-2.5	A-2-4	32	4	36.9%	25.8%	24.6%	12.7%	70.5%	52.1%	29.5%	10.7%	ND
S-40	Y	EB OSS	4.0 RT FW	48+83	2.3-5.0	A-4(0)	35	8	29.9%	28.1%	22.2%	19.9%	80.8%	64.7%	38.7%	15.0%	ND
S-42	Y	EB OSL	4.8 LT FW	58+86	2.6-5.0	A-4(0)	36	NP	19.7%	25.1%	27.6%	27.5%	84.9%	73.5%	51.8%	15.4%	ND
S-44	Y	EB OSS	8.3 RT FW	63+48	1.8-5.0	A-4(0)	36	NP	25.6%	27.8%	25.8%	20.8%	88.0%	72.7%	46.6%	21.7%	ND
S-45	Y	EB OSS	3.8 RT FW	68+28	1.7-5.0	A-4(0)	37	4	30.0%	23.3%	28.9%	17.9%	82.7%	65.4%	42.3%	26.2%	ND
S-46	Y	EB OSS	8.2 RT FW	75+08	1.9-5.0	A-2-4	36	5	35.3%	30.0%	23.2%	11.5%	84.6%	63.6%	34.5%	23.4%	ND
S-48	Y	EB OSS	9.5 RT FW	85+43	1.9-5.0	A-4(0)	34	NP	19.5%	45.3%	25.2%	10.0%	95.0%	86.0%	42.8%	11.5%	ND
S-50	Y	EB ISL	5.5 RT FY	87+83	2.6-5.0	A-4(0)	38	NP	36.1%	24.0%	25.8%	14.1%	93.4%	68.0%	41.8%	23.3%	ND
S-53	Y	EB OSL	2.8 LT FW	87+84	2.5-5.0	A-4(0)	33	NP	22.6%	35.1%	27.0%	15.3%	94.8%	81.8%	47.5%	13.5%	ND
S-55	Y	EB OSS	4.0 RT FW	10+59	2.8-5.0	A-4(1)	37	5	18.2%	32.8%	32.9%	16.1%	94.8%	85.7%	53.3%	13.0%	ND
S-57	Y EB	EB OSS	10.0 RT FW	15+83	2.1-5.0	A-4(0)	33	NP	20.3%	35.3%	32.7%	11.7%	87.3%	77.1%	45.2%	26.8%	ND
S-56	Y EB	EB ISS	1.7 LT FY	15+85	2.0-5.0	A-4(0)	28	NP	15.7%	41.3%	28.6%	14.4%	94.9%	87.9%	47.8%	12.7%	ND
S-58	Y EB	EB ISS	1.5 LT FY	20+58	1.9-5.0	A-4(0)	36	NP	2.3%	19.7%	53.8%	24.2%	99.9%	98.6%	88.0%	29.0%	ND
S-59	Y EB	EB OSS	5.5 RT FW	20+65	1.7-5.0	A-4(0)	38	NP	36.1%	24.0%	25.8%	14.1%	93.4%	68.0%	41.8%	23.7%	ND
S-61	Y EB	EB ISL	6.5 RT FY	25+60	2.2-5.0	A-4(0)	32	6	25.6%	38.7%	23.7%	12.0%	82.9%	70.5%	35.1%	27.7%	ND
S-64	Y EB	EB OSL	4.7 LT FW	25+61	1.7-5.0	A-4(2)	34	6	9.7%	36.8%	33.4%	20.1%	98.9%	95.6%	59.4%	17.1%	ND
S-66	Y EB	EB ISS	4.0 LT FY	31+04	1.4-5.0	A-4(1)	34	7	22.8%	33.6%	25.5%	18.1%	91.5%	78.9%	45.9%	15.0%	ND
S-68	Y EB	EB ISS	1.7 LT FY	36+17	1.5-5.0	A-4(3)	38	10	21.4%	27.6%	24.9%	26.1%	89.3%	77.3%	49.9%	15.1%	ND
S-69	Y EB	EB OSS	6.5 RT FW	36+18	1.7-5.0	A-6(4)	40	12	18.6%	29.8%	25.5%	26.1%	91.1%	81.2%	53.1%	20.0%	ND
S-70	Y EB	EB ISS	2.5 LT FY	41+01	1.6-5.0	A-4(0)	36	5	24.8%	30.9%	25.1%	19.2%	83.9%	70.9%	42.2%	15.3%	ND
S-71	Y EB	EB OSS	7.0 RT FW	41+02	1.3-5.0	A-4(0)	31	9	34.9%	25.2%	15.8%	24.1%	82.9%	64.1%	36.4%	12.5%	ND

*FROM WHITE LINE (FW)

*FROM YELLOW LINE (FY)

Prepared in the Office of:

F&ME CONSULTANTS, INC.
COLUMBIA, SOUTH CAROLINA
NCDOT LAB CERT. NO. 132-0212

PAVEMENT INVESTIGATION DATA SHEET

Project:	34165.1.6
TIP:	I-2513AA/AB

Route:	I-26 from I-40 to SR 3548 (Haywood Road)
County:	Buncombe

Date Performed:	9/27-10/1 & 10/11-10/13 (6 Nights)
Field Personnel:	M. Brewer, D. Underwood, C. Odom

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		(ft)	(in)	Thickness (in)					Pavement Layering	SG					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder			Offset Distance (See Notes)	Crown "C" or Super "S"	Gross to Top of Soil	Asphalt	ABC/STBC		Shoulder Drain Drainage Sand CSS (Chemical)	Concrete	Description (Depth - ft)	Soil Sample Number	AASHTO Classification		Soil Moisture	Boring Depth (ft)
C-72 Y Sta. 20+96 WB OSS	Cut 40.0	11.5 OSL	12.2 PS	4.0 RT FW	S	34.00	27.00	3.00 STBC	4.00 SAND	-	Asphalt STBC/SAND SG	2.8-5.0: RES - Red-Orange, Fine to Coarse Sandy SILT, trace mica	S-72	A-4	M	5	No Observed Pavement Distress	678,377	915,577
C-73 Y Sta. 20+96 WB OSL	Cut 40.0	11.5 OSL	12.2 PS	4.0 LT FW	S	32.00	4.00	4.00 STBC	-	14.50 9.50	Concrete Asphalt/Conc. STBC/SG	2.7-5.0: RES - Red-Orange, Fine to Coarse Sandy SILT, trace mica	S-73	A-4	M	5	No Observed Pavement Distress	678,369	915,579
C-75 Y Sta. 20+96 WB ISL (O)	Cut 40.0	11.0 ISL	10.0 PS Concrete Barrier Wall	9.5 RT FY	S	31.00	10.75	3.00 STBC	3.00 SAND	14.25	Concrete Asphalt/STBC SAND/SG	2.6-5.0: RES - Red-Orange, Fine to Coarse Sandy SILT, trace mica	S-75	A-4	M	5	High Severity Longitudinal and Transverse Cracking (ISL), Very Fine Hairline Spiderweb Cracking 1.5-inch Top Down Crack in Core Bottom 8 inches of concrete core disintegrated during coring operation.	678,348	915,585
C-76 Y Sta. 20+96 WB ISL (I)	Cut 40.0	11.0 ISL	10.0 PS	1.8 RT FY	S	32.00	4.00	10.00 STBC	3.50 SAND	14.50	Concrete Asphalt/STBC SAND/SG	2.7-5.0: RES - Red, Fine to Coarse Sandy SILT, trace mica	Ref-75	A-4	M	5	High Severity Longitudinal and Transverse Cracking (ISL), Very Fine Hairline Spiderweb Cracking Hairline Top Down Crack in Core	678,341	915,588
C-77 Y Sta. 20+96 WB ISS	Cut 40.0	11.0 ISL	10.0 PS	2.3 LT FY	S	N/A	21.50	-	Shoulder Drain	-	Asphalt Shoulder Drain	Did not auger due to location over shoulder drain.	-	-	-	-	No Observed Pavement Distress	678,337	915,589
C-78 Y Sta. 26+00 WB OSS	Cut 20.0	12.0 OSL	13.0 PS	11.8 RT FW	S	35.00	17.00 8.00	6.00 STBC	4.00 SAND	-	Asphalt STBC/Asphalt SAND/SG	2.9-5.0: RES - Red-Pink, Fine to Coarse Sandy SILT, trace mica Augered through Asphalt from 1.9-2.6	S-78	A-4	M	5	Patching (ISL), No Observed Pavement Distress (OSL, OSS)	678,500	916,073
C-79 Y Sta. 28+56 WB MERGE LANE	Fill 5.0	11.0 MERGE 12.0 OSL	11.0 PS	2.0 LT FW	S	40.00	10.50	4.00 STBC	-	16.00 9.50	Concrete Asphalt/Conc. STBC/SG	3.3-5.0: RE - Red, Fine to Coarse Sandy SILT, trace mica	S-79	A-4	M	5	Low Severity Transverse Cracking (OSS), Patching (ISL)	678,530	916,331
C-80 Y Sta. 31+41 WB OSS	Fill 15.0	12.0 OSL	11.0 PS	4.7 RT FW	S	33.50	29.50	-	4.00 SAND	-	Asphalt SAND SG	2.8-5.0: RE - Brown-Orange, Fine to Coarse Sandy, Clayey SILT, trace mica	S-80	A-5	M	5	No Observed Pavement Distress (OSS), Patching (ISL)	678,553	916,620
C-82 Y Sta. 37+45 WB OSS	Fill 10.0	12.0 OSL	11.5 PS	9.5 RT FW	C	36.50	28.00	4.50 STBC	4.00 SAND	-	Asphalt STBC/SAND SG	3.1-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-82	A-4	M	5	Concrete Patching at Transverse Joints (ISL), High Severity Spalling (6 inch x 12 inch - OSL) No Observed Pavement Distress (OSS)	678,508	917,231
C-83 Y Sta. 41+94 WB OSS	Fill 15.0	11.5 OSL	8.0 Asphalt PS 4.0 Concrete	9.4 RT FW	C	22.00	18.00	4.00 STBC	-	-	Asphalt STBC SG	1.8-5.0: RE - Brown-Gray, Silty, Gravelly, Fine to Coarse SAND	S-83	A-1-b	M	5	No Observed Pavement Distress	678,434	917,676
C-84 Y Sta. 50+37 WB OSS	Fill 25.0	11.5 OSL	12.0 PS Concrete Exp. Gutter	6.5 RT FW	C	22.00	15.00	7.00 STBC	-	-	Asphalt STBC SG	1.8-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-84	A-4	M	5	Low Severity Transverse Cracking (OSS)	678,301	918,508
C-85 Y Sta. 58+51 WB OSS	Fill 20.0	12.0 OSL	11.5 PS Concrete Exp. Gutter	6.2 RT FW	C	24.00	16.00	8.00 STBC	-	-	Asphalt STBC SG	2.0-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-85	A-4	M	5	No Observed Pavement Distress	678,164	919,310
C-86 Y Sta. 58+50 WB OSL	Fill 20.0	12.0 PS	11.5 PS Concrete Exp. Gutter	5.5 LT FW	C	35.00	11.75	5.00 STBC	3.00 SAND	15.25	Concrete Asphalt/STBC SAND/SG	2.9-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	Ref-87	A-4	M	5	Very Fine Hairline Spiderweb Cracking (ISWP, OSWP)	678,153	919,308
C-87 Y Sta. 58+51 WB OSML	Fill 20.0	12.0	-	15.5 LT FW	C	33.00	4.00	3.00 STBC	3.00 SAND	14.50 8.50	Concrete Asphalt/Conc. STBC/SAND/SG	2.8-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace gravel	S-87	A-4	M	5	Very Fine Hairline Spiderweb Cracking (ISWP, OSWP), High Severity Spalling (12 inch x 12 inch) at Transverse Joint	678,143	919,307
C-88 Y Sta. 63+40 WB OSS	Fill 20.0	12.0 OSL	12.0 PS Concrete Exp. Gutter	6.6 RT FW	C	22.00	15.25	6.75 STBC	-	-	Asphalt STBC SG	1.8-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica Possible Rock Fill	S-88	A-4	M	5	Very Fine Hairline Spiderweb Cracking (OSL, OSML), No Observed Pavement Distress (OSS)	678,082	919,793

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

Prepared by: DMB
Reviewed by: REK

PAVEMENT INVESTIGATION DATA SHEET

Project:	34165.1.6
TIP:	I-2513AA/AB

Route:	
County:	Buncombe

Date Performed:	9/27-10/1 & 10/11-10/13 (6 Nights)
Field Personnel:	M. Brewer, D. Underwood, C. Odom

Test Location	Cut/Fill (Est. of Amount) (ft)	Width (ft)		Offset Distance (See Notes)	(ft)	(in)	Thickness (in)					Pavement Layering	SG					Asphalt Notes	GPS Coordinates	
		Lane	Shoulder				Gross to Top of Soil	Asphalt	ABC/STBC	Shoulder Drain Drainage Sand CSS (Chemical)	Concrete		Description (Depth - ft)	Soil Sample Number	AASHTO Classification	Soil Moisture	Boring Depth (ft)		Northing	Easting
C-89 Y Sta. 68+54 WB OSS	Fill 25.0	12.0 OSL	11.5 PS Concrete Exp. Gutter	5.5 RT FW		C	40.00	15.50	24.50 ABC	-	-	Asphalt ABC/Fabric SG	3.3-5.0: RE - Tan, Fine to Coarse Sandy SILT, trace mica	S-89	A-4	M	5	Very Fine Hairline Spiderweb Cracking (OSL, OSML), No Observed Pavement Distress (OSS)	677,978	920,299
C-90 Y Sta. 75+02 WB OSS	Fill 30.0	12.0 OSL	11.5 PS Concrete Exp. Gutter	6.0 RT FW		C	21.00	15.00	6.00 STBC	-	-	Asphalt STBC SG	1.8-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-90	A-4	M	5	Very Fine Hairline Spiderweb Cracking (OSL, OSML), No Observed Pavement Distress (OSS)	677,821	920,931
C-91 Y Sta. 80+09 WB OSS	Cut 35.0	12.0 OSL	12.0 PS Concrete Exp. Gutter	6.0 RT FW		C	21.00	17.00	4.00 STBC	-	-	Asphalt STBC SG	1.8-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-91	A-4	M	5	No Observed Pavement Distress (OSS), Patching ISL	677,692	921,421
C-92 Y Sta. 85+47 WB OSS	Cut 10.0	12.0 OSL	12.0 PS Concrete Exp. Gutter	5.8 RT FW		C	22.00	16.00	-	6.00 CSS	-	Asphalt CSS SG	1.7-3.0: RE - Red-Gray, Fine to Coarse Sandy SILT, trace organics 3.0-5.0: RES - Brown-Gray, Fine to Coarse Sandy SILT, trace mica	S-92 Ref-101	A-4 A-4	M M	5	No Observed Pavement Distress (OSS), Patching ISL Portion of subgrade soil recovered with core	677,556	921,941
C-93 Y Sta. 88+85 WB OSS	Fill 5.0	12.0 OSL	12.4 PS Concrete Exp. Gutter	6.3 RT FW		C	40.00	36.50	3.50 STBC	-	-	Asphalt STBC SG	3.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-93	A-4	M	5	No Observable Pavement Distress	677,471	922,268
C-94 Y Sta. 88+74 WB OSL	Fill 5.0	12.0 OSL	12.4 PS Concrete Exp. Gutter	5.7 LT FW		C	30.00	10.25	2.00 STBC	4.00 SAND	13.75	Concrete Asphalt/STBC SAND/SG	2.5-5.0: RE - Brown-Red, Fine to Coarse Sandy SILT, trace mica	Ref-93	A-4	M	5	No Observable Pavement Distress	677,462	922,255
C-96 Y Sta. 88+75 WB ISL	Fill 5.0	12.0 ISL	10.0 PS	2.4 RT FY		C	34.00	10.50	8.00 STBC	-	15.50	Concrete Asphalt STBC/SG	2.8-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-96	A-4	M	5	High Severity Longitudinal Cracking (ISL), Multiple Transverse Patches, Drilled on a Crack	677,424	922,246
C-97 Y Sta. 88+75 WB ISS	Fill 5.0	12.0 ISL	10.0 PS	3.7 LT FY		C	26.00	19.50	6.50 STBC	-	-	Asphalt STBC SG	2.2-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-97	A-4	M	5	No Observed Pavement Distress (ISS)	677,417	922,244
C-98 Y_WB Sta. 10+69 WB OSS	Fill 15.0	12.0 OSL	12.0 PS Concrete Exp. Gutter	2.1 RT FW		C	37.00	34.50	2.50 STBC	-	-	Asphalt STBC SG	3.1-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-98	A-4	M-W	5	High Severity Longitudinal Cracking (4 to 8-inches wide) at Joints (Reflective) Low Severity Transverse Cracking (OSL, OSS)	677,333	922,778
C-99 Y_WB Sta. 15+88 WB OSS	Cut 20.0	12.0 OSL	11.0 PS	6.0 RT FW		C	39.00	36.50	2.50 STBC	-	-	Asphalt STBC SG	3.2-5.0: RES - Brown-White, Silty Fine to Coarse SAND, trace mica	Ref-101	A-2-4	M	5	Low to Moderate Severity Transverse and Longitudinal Cracking (OSL - Reflective) No Observed Pavement Distress (OSS)	677,206	923,281
C-100 Y_WB Sta. 15+88 WB ISS	Cut 20.0	12.0 ISL	3.5 PS	1.5 LT FY		C	24.00	10.00	5.00 STBC	-	9.00	Asphalt Concrete STBC/SG	2.0-5.0: RES - Brown, Fine to Coarse Sandy SILT, trace mica	S-100	A-4	M	5	Low to Moderate Severity Transverse and Longitudinal Cracking (ISL - Reflective) No Observed Pavement Distress (ISS)	677,152	923,267
C-101 Y_WB Sta. 20+65 WB OSS	Cut 15.0	11.0 OSL	12.0 PS	6.2 RT FW		C	30.00	26.50	3.50 STBC	-	-	Asphalt STBC SG	2.5-5.0: RES - Brown-White, Silty Fine to Coarse Sand, trace mica	S-101	A-2-4	M	5	Moderate Severity Transverse and Longitudinal Cracking (OSL - Reflective)	677,085	923,743
C-102 Y_WB Sta. 20+65 WB ISS	Cut 15.0	12.0 ISL	8.5 PS	4.5 LT FY		C	21.00	9.50	7.50 STBC	4.00 SAND	-	Asphalt STBC SAND/SG	1.8-5.0: RES - Brown-Tan, Fine to Coarse Sandy SILT, trace mica	S-102	A-4	M	5	Low Severity Longitudinal and Transverse Cracking (ISS) Moderate Severity Transverse and Longitudinal Cracking (ISL - Reflective)	677,028	923,728
C-103 Y_WB Sta. 27+11 WB OSS	Fill 10.0	11.5 ISL	12.0 PS Concrete Exp. Gutter	6.0 RT FW		S	23.00	8.00	6.00 STBC	-	9.00	Asphalt Concrete STBC/SG	1.9-5.0: RE - Orange, Fine to Coarse Sandy SILT, trace mica	S-103	A-4	M	5	Moderate Severity Transverse Cracking (ISS) Low to Moderate Severity Transverse and Longitudinal Cracking (Reflective)	676,991	924,375
C-105 Y_WB Sta. 27+11 WB MID-LANE	Fill 10.0	12.0	-	15.5 LT FW		S	27.50	23.50	-	4.00 SAND	-	Asphalt SAND SG	2.3-5.0: RE - Brown, Fine to Coarse Sandy SILT, trace mica	S-105	A-4	M	5	Low to Moderate Severity Transverse and Longitudinal Cracking (Reflective)	676,970	924,374

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

Prepared by: DMB
Reviewed by: REK

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-72 Y Sta. 20+96 WB OSS 4.0 FT RT FW				9/27-10/1, 10/11-10/13	C-73 Y Sta. 20+96 WB OSL 4.0 FT LT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	40.0 ft Cut	DCP	Cumulative cm per blow	STBC	40.0 ft Cut	DCP	Cumulative cm per blow	STBC	40.0 ft Cut
1.80	77.30			1.00	80.30						
3.40	78.20			1.70							
4.70	79.50			2.60							
5.90	80.60			3.50							
7.00	81.60			4.50							
8.50	82.70			5.90							
9.50	83.70			7.10							
10.40	84.90			8.40							
11.40	85.90			9.60							
12.40	86.90			11.20							
13.60				13.20							
14.60				15.00							
15.50				16.80							
16.50				18.40							
17.60				19.60							
18.40				21.10							
19.40				22.90							
20.70				24.70							
21.90				26.30							
23.10				27.70							
24.40				28.80							
25.80				30.20							
27.00				31.60							
28.20				33.20							
29.00				34.30							
30.00				35.50							
31.10				36.60							
32.10				37.70							
33.00				39.20							
33.90				40.90							
34.90				42.50							
35.90				44.00							
36.80				45.40							
38.00				46.80							
39.00				48.20							
40.10				49.70							
41.00				51.00							
42.30				52.20							
43.30				53.50							
44.80				55.10							
46.10				56.20							
47.30				57.00							
49.00				58.00							
50.40				58.70							
51.90				59.80							
53.20				61.10							
54.70				62.20							
56.00				63.20							
57.40				64.50							
58.90				65.80							
60.30				67.10							
61.70				67.90							
63.00				68.30							
64.30				69.30							
65.60				70.40							
67.00				71.40							
68.30				72.40							
69.20				73.40							
70.40				74.30							
71.40				75.20							
72.60				76.00							
73.40				77.00							
74.20				77.90							
75.10				78.70							
76.30				79.60							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-75 Y Sta. 20+96 WB ISL (O) 9.5 FT RT FY				9/27-10/1, 10/11-10/13	C-76 Y Sta. 20+96 WB ISL (I) 1.8 FT RT FY				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	40.0 ft Cut	DCP	Cumulative cm per blow	STBC	40.0 ft Cut	DCP	Cumulative cm per blow	STBC	40.0 ft Cut
1.90				1.00	48.70						
3.30				2.10	49.80						
4.50				2.60	51.00						
5.60				2.90	52.20						
6.70				3.20	53.30						
7.90				3.60	54.40						
9.30				3.80	55.70						
10.70				4.20	56.80						
12.10				4.80	58.00						
14.50				5.30	59.10						
17.00				6.10	60.30						
19.50				6.70	61.10						
22.00				7.50	62.00						
24.50				8.10	63.00						
26.90				8.70	64.10						
29.40				9.50	65.30						
31.80				10.30	66.40						
34.10				10.50	67.60						
36.10				11.50	68.80						
38.40				12.10	70.10						
40.30				12.70	71.30						
42.10				13.60	72.50						
43.70				14.10	73.70						
45.50				14.90	74.90						
47.00				15.50	76.10						
48.40				16.40	77.50						
49.70				17.30	78.60						
51.00				18.50	79.70						
52.40				19.10	80.90						
53.80				19.80	81.60						
55.20				20.10	83.40						
56.70				20.60	85.20						
57.60				21.00	87.40						
58.20				21.70	89.40						
59.20				22.20	91.20						
60.30				22.80	92.90						
61.60				23.10	94.50						
62.90				23.40	96.00						
63.50				23.80	97.50						
64.70				24.40	98.90						
65.70				25.00	100.10						
66.90				25.40	101.20						
67.80				26.10	102.60						
69.00				26.60	103.70						
70.20				27.00	105.10						
71.50				27.50							
72.90				28.50							
73.80				29.10							
74.90				29.20							
75.90				29.80							
76.90				30.40							
77.90				31.20							
78.40				31.90							
79.40				32.80							
80.30				33.40							
80.90				34.70							
				35.90							
				36.90							
				38.10							
				39.60							
				41.30							
				43.10							
				44.30							
				46.10							
				47.50							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)	
Test Location				DATE RUN	TEST LOCATION	DATE RUN	
C-77 Y Sta. 20+96 WB ISS 2.3 FT LT FY				9/27-10/1, 10/11-10/13	C-78 Y Sta. 26+00 WB OSS 11.8 FT RT FW	9/27-10/1, 10/11-10/13	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	Shoulder Drain	40.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut
0.90	71.10			2.70	DCP REF	20.40	
1.60	71.90			3.50		21.10	
2.50	73.00			3.80	Auger	21.70	
3.40	73.80			4.20	9.7 cm	22.60	
4.30	75.10			4.50	to 19.8	23.50	
5.40	76.10			4.90	0.00	24.90	
6.50	77.20			5.20	0.22	26.20	
7.00	78.10			5.40	0.44	27.50	
7.80	78.90			5.70	0.66	29.30	
8.60	80.40			6.10	0.88	30.80	
9.00	81.50			6.30	1.10	33.00	
9.70	82.40			6.50	1.30	35.40	
10.70	83.30			6.60	1.50	38.30	
12.10	84.40			6.80	1.70	40.80	
13.50	85.50			6.90	1.90	42.40	
15.30	86.60			7.00	2.10	44.10	
17.00	88.00			7.10	2.34	46.00	
20.70	89.10			7.20	2.58	48.20	
27.40	90.20			7.30	2.82	50.40	
29.30	91.20			7.40	3.06	53.30	
30.70	92.20			7.50	3.30	56.00	
32.10	93.20			7.60	3.62	59.40	
33.00	94.20			7.70	3.94	62.60	
34.10	95.10			7.80	4.26	66.20	
35.30				7.88	4.58	68.00	
36.50				7.96	4.90	70.10	
37.80				8.04	5.14	72.00	
39.10				8.12	5.38	73.40	
40.30				8.20	5.62	75.00	
41.50				8.28	5.86	76.30	
42.80				8.36	6.10	77.40	
44.10				8.44	6.28	78.60	
45.40				8.52	6.46	79.70	
46.60				8.60	6.64	80.70	
47.90				8.67	6.82	81.60	
48.90				8.74	7.00	82.50	
49.90				8.81	7.28	83.90	
51.70				8.88	7.56	85.00	
51.90				8.95	7.84	86.50	
52.70				9.02	8.12	87.90	
53.30				9.09	8.40	88.20	
53.90				9.16	8.76		
54.60				9.23	9.12		
55.20				9.30	9.48		
55.90				9.34	9.84		
56.30				9.38	10.20		
57.20				9.42	10.50		
57.30				9.46	10.70		
57.60				9.50	11.30		
58.20				9.54	11.70		
58.90				9.58	12.10		
59.60				9.62	12.60		
60.40				9.66	12.90		
61.00				9.70	13.50		
61.80				9.74	13.90		
62.20				9.78	14.60		
62.70				9.82	14.80		
63.60				9.86	15.60		
64.40				9.90	15.90		
65.10				9.94	16.60		
65.90				9.98	17.30		
66.70				10.02	17.70		
67.50				10.06	18.20		
68.40				10.10	18.90		
69.30				50/1.5'	19.50		

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE	
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)	
Test Location				DATE RUN	TEST LOCATION	DATE RUN	
C-79 Y Sta. 28+56 WB MERGE LANE 2.0 FT LT FW				9/27-10/1, 10/11-10/13	C-80 Y Sta. 31+41 WB OSS 4.7 FT RT FW	9/27-10/1, 10/11-10/13	
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	5.0 ft Fill	DCP	Cumulative cm per blow	SAND	15.0 ft Fill
3.10				1.90			
6.00				3.10			
9.30				4.30			
13.50				5.70			
16.30				7.30			
19.20				8.90			
22.00				10.50			
24.90				13.10			
28.10				16.10			
30.30				18.30			
32.20				20.80			
34.20				23.80			
36.40				27.60			
38.30				31.50			
40.00				34.50			
41.40				36.20			
42.50				39.70			
43.10				41.90			
43.70				44.80			
44.30				47.10			
44.90				48.90			
45.40				50.50			
46.00				52.10			
46.90				53.80			
47.90				55.30			
48.50				56.00			
49.30				56.50			
50.30				57.60			
51.50				59.30			
52.80				60.60			
53.90				61.90			
55.00				63.20			
56.50				64.40			
				65.80			
				66.90			
				68.50			
				69.50			
				70.60			
				71.40			
				72.30			
				73.00			
				73.80			
				74.50			
				75.00			
				75.50			
				76.20			
				76.80			
				77.20			
				78.40			
				79.40			
				80.20			

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-82 Y Sta. 37+45 WB OSS 9.5 FT RT FW				9/27-10/1, 10/11-10/13	C-83 Y Sta. 41+94 WB OSS 9.4 FT RT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	10.0 ft Fill	DCP	Cumulative cm per blow	STBC	15.0 ft Fill				
2.30				0.70	33.58	55.48	98.60				
2.90				1.10	34.04	55.92	100.20				
3.60				1.80	34.50	56.36	101.50				
4.50				2.40	35.10	56.80	103.80				
5.00				2.80	35.60	57.30	104.20				
5.80				3.30	36.00	58.20	105.30				
6.50				3.70	36.30	58.80	106.10				
7.40				4.00	36.60	59.20	106.60				
8.00				4.40	37.00	59.40					
8.60				4.60	37.20	59.70					
9.60				5.10	37.80	59.80					
10.60				5.90	38.30	60.30					
11.60				7.00	38.60	60.60					
12.60				8.20	39.20	61.00					
13.60				9.10	39.60	61.20					
15.10				10.00	39.90	61.40					
16.90				10.90	40.40	61.90					
19.60				11.80	41.10	62.30					
22.00				13.00	41.60	62.50					
23.90				14.50	41.80	62.70					
25.30				16.00	42.30	63.30					
27.40				17.30	42.50	64.10					
29.50				18.30	42.60	64.90					
31.50				19.70	42.70	65.70					
33.80				20.60	42.86	66.60					
34.60				23.10	43.02	67.50					
38.70				24.00	43.18	68.70					
41.00				24.70	43.34	69.50					
43.50				24.80	43.50	70.50					
46.10				24.90	43.76	71.60					
48.10				25.10	44.02	72.70					
51.30				25.40	44.28	73.60					
55.10				25.50	44.54	74.70					
58.10				25.72	44.80	75.50					
61.70				25.94	45.06	76.30					
65.70				26.16	45.32	77.10					
69.40				26.38	45.58	77.90					
71.40				26.60	45.84	78.40					
73.70				26.78	46.10	79.00					
78.50				26.96	46.38	79.30					
				27.14	46.66	79.80					
				27.32	46.94	80.30					
				27.50	47.22	80.60					
				27.62	47.50	81.00					
				27.74	47.74	81.60					
				27.86	47.98	82.00					
				27.98	48.22	82.50					
				28.10	48.46	83.10					
				28.40	48.70	83.50					
				28.70	49.08	84.00					
				29.00	49.46	84.50					
				29.30	49.84	84.80					
				29.60	50.22	85.20					
				29.84	50.60	85.60					
				30.08	50.92	87.00					
				30.32	51.24	87.30					
				30.56	51.56	87.80					
				30.80	51.88	88.60					
				31.08	52.20	89.40					
				31.36	52.68	90.40					
				31.64	53.16	91.80					
				31.92	53.64	92.80					
				32.20	54.12	93.90					
				32.66	54.60	95.50					
				33.12	55.04	96.90					

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-84 Y Sta. 50+37 WB OSS 6.5 FT RT FW				9/27-10/1, 10/11-10/13	C-85 Y Sta. 58+51 WB OSS 6.2 FT RT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	25.0 ft Fill	DCP	Cumulative cm per blow	STBC	20.0 ft Fill				
1.90	DCP REF	36.80	77.00	1.30	37.10	96.10					
3.20	Auger	37.00	77.70	2.20	37.48	96.70					
4.30	15.0 cm	37.40	78.50	3.00	37.86	97.20					
5.60	to 32.80	37.60	79.30	4.00	38.24	98.00					
6.80	1.50	38.00	79.60	4.70	38.62	98.70					
7.90	2.90	38.20	80.20	5.50	39.00	99.30					
9.10	4.70	38.60	80.70	6.10	39.70	99.90					
10.10	6.40	39.00	81.50	6.70	40.50	100.30					
11.30	8.20	39.40	82.00	7.50	41.50	101.20					
12.00	9.80	39.80	82.70	8.10	42.40	101.80					
13.00	11.50	40.20	83.60	8.90	43.40	102.40					
15.10	12.80	40.80		9.50	44.40	103.10					
15.80	13.00	41.20		10.50	45.80	103.60					
15.90	13.10	41.60		11.10	46.90	104.40					
15.96	14.00	42.20		11.60	47.90	105.00					
16.02	14.50	42.50		12.30	49.40	105.60					
16.08	14.60	43.10		13.10	50.40	106.40					
16.14	14.74	43.60		13.80	51.80	107.20					
16.20	14.88	44.00		14.80	52.80	107.80					
16.26	15.02	44.20		15.20	53.90	108.40					
16.32	15.16	44.40		16.20	55.10	109.10					
16.38	15.30	44.80		16.80	56.90	109.90					
16.44	15.46	45.10		17.30	59.00	110.50					
16.50	15.62	45.50		17.70	60.60	111.40					
16.53	15.78	45.90		18.20	62.70	112.30					
16.57	15.94	46.30		19.00	64.40	113.10					
16.60	16.10	46.60		19.50	66.10	114.00					
16.63	16.70	47.00		20.20	67.60	115.10					
16.66	17.30	47.80		20.80	69.40	115.80					
16.70	18.20	48.60		21.50	71.00	116.60					
16.73	19.20	49.30		22.00	72.60	117.50					
16.76	19.90	49.90		22.40	74.80						
16.79	20.80	50.30		22.90	78.20						
16.83	21.80	51.00		23.70	83.00						
16.86	22.90	51.60		24.30	84.00						
16.89	23.40	52.30		24.70	84.50						
16.92	23.90	53.20		25.30	84.60						
16.96	24.60	54.10		25.90	85.00						
16.99	24.70	55.00		26.50	85.20						
17.02	25.70	55.80		27.40	85.30						
17.05	26.20	56.40		27.70	85.60						
17.09	26.90	56.90		28.20	86.00						
17.12	27.40	57.90		28.80	86.30						
17.15	28.00	59.00		29.30	86.60						
17.18	28.40	59.20		29.70	86.70						
17.22	28.80	60.30		30.50	87.00						
17.25	29.10	61.20		31.20	87.20						
17.28	29.30	62.00		31.70	87.40						
17.31	29.80	62.80		32.40	87.60						
17.35	30.10	63.10		32.90	87.90						
17.38	30.60	63.70		33.50	88.10						
17.41	31.20	64.40		33.90	88.30						
17.44	31.60	65.00		34.30	88.60						
17.48	32.00	65.60		34.80	89.20						
17.51	32.40	66.00		35.20	89.50						
17.54	32.70	66.50		35.30	90.00						
17.57	33.10	67.00		35.50	90.40						
17.61	33.50	67.80		35.70	91.20						
17.64	33.70	68.50		35.90	91.40						
17.67	34.20	69.90		36.10	92.20						
17.70	34.70	70.90		36.20	92.90						
17.74	35.00	72.00		36.38	93.60						
17.77	35.50	73.40		36.56	94.20						
17.80	35.90	74.70		36.74	94.70						
50/1'	36.40	76.00		36.92	95.30						

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-86 Y Sta. 58+50 WB OSL 5.5 FT LT FW				9/27-10/1, 10/11-10/13	C-87 Y Sta. 58+51 WB OSML 15.5 FT LT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	20.0 ft Fill	DCP	Cumulative cm per blow	STBC	20.0 ft Fill				
1.40				0.80	67.80						
2.20				1.30	68.20						
2.70				2.40	69.00						
3.20				2.90	69.50						
3.80				3.50	70.40						
4.60				4.10	71.00						
5.40				4.90	71.50						
6.10				5.50	72.20						
6.80				6.00	72.90						
7.50				7.00	73.50						
8.40				7.90	74.10						
9.30				8.70	74.80						
10.10				9.90	75.60						
11.40				11.00	76.20						
12.60				12.40	76.80						
14.30				13.90	77.70						
15.00				15.50	78.40						
16.30				16.90	79.00						
17.70				18.50	79.80						
19.40				19.90	80.50						
20.70				21.20	81.30						
22.40				22.50	82.00						
24.40				24.00	82.70						
26.10				25.50	83.30						
28.30				27.00	83.90						
30.30				28.40							
32.40				29.80							
34.50				31.20							
36.40				32.50							
38.70				33.70							
40.90				34.60							
43.10				35.70							
44.70				37.00							
46.70				38.00							
48.60				40.30							
50.80				42.20							
52.90				44.40							
55.60				46.20							
57.90				48.00							
59.60				49.50							
61.40				50.90							
63.20				51.80							
64.70				52.70							
66.60				53.10							
68.50				53.50							
71.00				54.00							
74.00				54.50							
76.40				55.10							
78.10				55.80							
79.50				56.20							
80.80				56.90							
82.30				57.50							
83.50				58.50							
				59.30							
				60.00							
				60.70							
				61.50							
				62.30							
				63.00							
				63.60							
				64.40							
				65.10							
				65.90							
				66.50							
				67.00							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
Haywood				M. Brewer		C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-88 Y Sta. 63+40 WB OSS 6.6 FT RT FW				9/27-10/1, 10/11-10/13	C-89 Y Sta. 68+54 WB OSS 5.5 FT RT FW				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	20.0 ft Fill	DCP	Cumulative cm per blow	ABC	25.0 ft Fill				
1.40	38.70	51.42		0.90	13.76	23.46	38.50	83.20			
2.20	39.00	51.48		1.30	13.90	23.60	38.80	84.90			
2.90	39.20	51.54		1.50	14.02	23.76	39.10	86.70			
3.70	39.40	51.60		1.80	14.14	23.92	39.40	88.90			
4.60	39.60	51.66		2.00	14.26	24.08	39.80	91.30			
5.30	39.90	51.72		2.30	14.38	24.24	40.00	92.80			
5.50	40.10	51.78		2.40	14.50	24.40	40.10	95.00			
6.10	40.30	51.84		2.70	14.64	24.60	40.60	96.20			
6.30	40.40	51.90		3.10	14.78	24.80	41.00	97.30			
6.60	40.64	51.94		3.20	14.92	25.00	41.30	98.40			
7.30	40.88	51.98		3.60	15.06	25.20	41.60	99.40			
7.50	41.12	52.02		4.10	15.20	25.40	42.00	100.30			
8.10	41.36	52.06		4.70	15.32	25.66	42.20	101.20			
8.90	41.60	52.10		5.20	15.44	25.92	42.70	102.20			
9.50	41.78	52.14		5.40	15.56	26.18	43.00	103.30			
10.10	41.96	52.18		5.50	15.68	26.44	43.40	104.10			
10.80	42.14	52.22		5.60	15.80	26.70	43.70	105.10			
11.60	42.32	52.26		5.70	15.98	26.90	44.00	105.90			
12.30	42.50	52.30		6.00	16.16	27.00	44.60	106.60			
13.10	42.72	52.34		6.10	16.34	27.30	45.00	107.40			
14.00	42.94	52.38		6.20	16.52	27.60	45.40	108.00			
14.80	43.16	52.42		6.30	16.70	28.00	45.70	108.50			
15.40	43.38	52.46		6.40	16.94	28.10	46.30	109.00			
16.40	43.60	52.50		6.60	17.18	28.22	46.70	109.60			
17.30	43.88	52.54		6.90	17.42	28.34	47.10	110.20			
18.10	44.16	52.58		7.10	17.66	28.46	47.60	110.70			
19.20	44.44	52.62		7.30	17.90	28.58	47.90	111.20			
19.60	44.72	52.66		7.50	18.06	28.70	48.60	111.90			
20.00	45.00	52.70		7.60	18.22	28.90	49.10	112.60			
20.40	45.26	52.74		7.90	18.38	29.10	49.40	113.40			
20.80	45.52	52.78		8.00	18.54	29.30	49.60				
21.20	45.78	52.82		8.60	18.70	29.50	50.00				
21.44	46.04	52.86		8.70	18.84	29.70	50.40				
21.68	46.30	52.90		8.80	18.98	29.96	50.70				
21.92	46.54	50/1'		8.90	19.12	30.22	51.20				
22.16	46.78	DCP REF		9.20	19.26	30.48	51.70				
22.40	47.02			9.60	19.40	30.74	52.20				
22.58	47.26			9.80	19.48	31.00	52.80				
22.76	47.50			10.00	19.56	31.20	53.20				
22.94	47.82			10.20	19.64	31.40	53.60				
23.12	48.14			10.40	19.72	31.60	54.20				
23.30	48.46			10.60	19.80	31.80	54.50				
23.48	48.78			10.70	19.94	32.00	54.90				
23.66	49.10			10.80	20.08	32.22	55.20				
23.84	49.36			10.90	20.22	32.44	55.70				
24.02	49.62			11.00	20.36	32.66	56.00				
24.20	49.88			11.10	20.50	32.88	56.50				
24.70	50.14			11.20	20.68	33.10	57.00				
25.20	50.40			11.30	20.86	33.50	57.40				
25.90	50.46			11.40	21.04	33.70	58.10				
26.20	50.52			11.50	21.22	34.20	58.60				
26.80	50.58			11.60	21.40	34.40	59.30				
27.40	50.64			11.78	21.52	34.70	59.70				
28.40	50.70			11.96	21.64	35.10	60.20				
29.60	50.76			12.14	21.76	35.20	61.10				
30.90	50.82			12.32	21.88	35.40	61.70				
32.00	50.88			12.50	22.00	35.90	62.40				
33.00	50.94			12.64	22.18	36.00	63.70				
33.90	51.00			12.78	22.36	36.50	65.20				
34.60	51.06			12.92	22.54	36.70	66.60				
35.60	51.12			13.06	22.72	37.10	69.60				
36.40	51.18			13.20	22.90	37.30	72.90				
37.20	51.24			13.34	23.04	37.50	75.90				
38.00	51.30			13.48	23.18	37.90	79.00				
38.40	51.36			13.62	23.32	38.30	81.60				

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
				Haywood	M. Brewer	C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-99 Y_WB Sta. 15+88 WB OSS 6.0 FT RT FW				9/27-10/1, 10/11-10/13	C-100 Y_WB Sta. 15+88 WB ISS 1.5 FT LT FY				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut	DCP	Cumulative cm per blow	STBC	20.0 ft Cut
1.50				1.60	43.10	73.30					
2.00				2.40	43.90	73.70					
3.40				3.00	44.20	74.20					
5.00				3.80	44.50	74.60					
5.90				4.80	44.70	74.70					
6.80				5.20	45.40	75.20					
7.50				5.80	45.70	75.80					
8.40				6.30	46.20	76.30					
9.20				7.00	46.70	76.80					
10.30				7.80	47.10	77.30					
11.10				8.70	47.60	78.20					
12.00				10.00	48.10	78.70					
12.90				11.10	48.90	79.10					
13.80				12.20	49.20	79.50					
14.30				13.60	49.90	80.10					
15.60				14.40	50.40	80.70					
16.50				15.50	51.20	81.20					
17.70				17.00	51.80	81.70					
18.90				18.10	52.10	82.00					
20.00				19.40	52.70	82.40					
21.30				20.60	53.20	83.00					
22.90				22.00	53.90	83.50					
24.20				23.30	54.50	83.90					
25.60				24.00	55.00	84.40					
27.30				24.90	55.80	84.90					
28.50				25.90	56.20	85.00					
30.70				26.70	56.80	85.40					
32.60				27.20	57.50	85.90					
34.60				28.00	58.50	86.20					
36.90				28.30	58.60	86.70					
38.90				28.90	59.50	87.10					
40.90				29.40	60.00	87.60					
42.90				29.90	60.40	88.00					
44.60				30.50	60.80	88.40					
46.40				31.00	61.20	88.80					
47.80				31.50	61.70	89.30					
49.40				32.00	62.10	89.60					
50.70				32.40	62.60	90.40					
52.30				32.90	63.00	90.80					
53.50				33.20	63.40	91.20					
55.20				33.60	63.90	91.90					
56.70				34.00	64.10	92.30					
58.00				34.70	64.30	92.60					
59.30				34.90	64.70	93.20					
60.50				35.40	65.20	93.40					
				35.70	65.50	93.80					
				36.00	65.80	94.00					
				36.20	66.30	94.40					
				36.50	66.60	94.70					
				36.80	67.00	95.00					
				37.00	67.40	95.30					
				37.30	67.80	95.60					
				37.70	68.10	96.00					
				38.20	68.70	96.10					
				38.50	69.00	96.40					
				39.20	69.40						
				39.60	69.70						
				39.90	70.00						
				40.70	70.40						
				40.90	71.00						
				41.00	71.10						
				41.60	71.50						
				42.10	71.80						
				42.40	72.50						
				42.70	72.70						

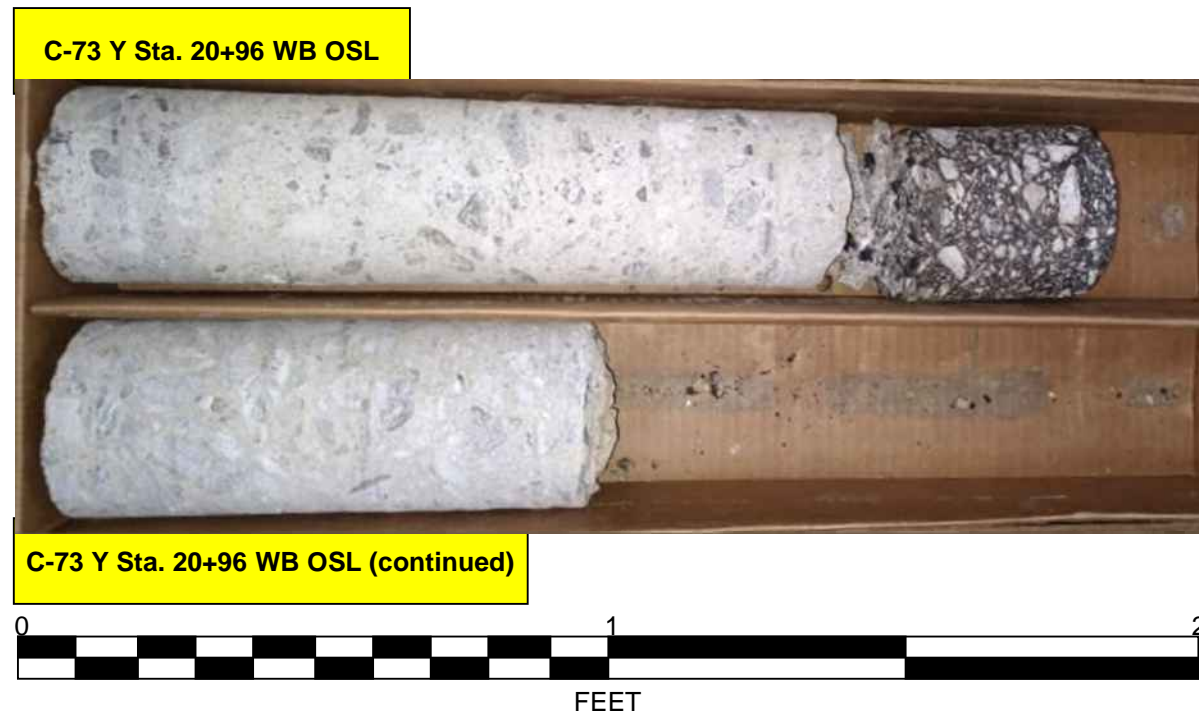
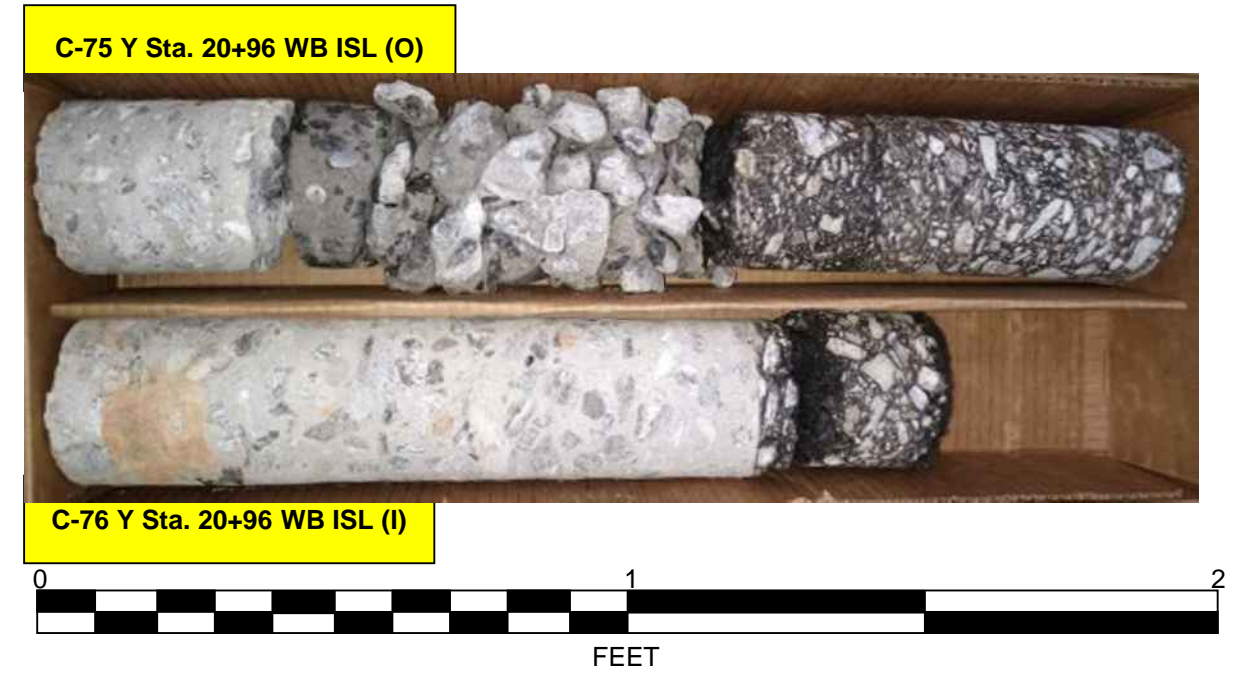
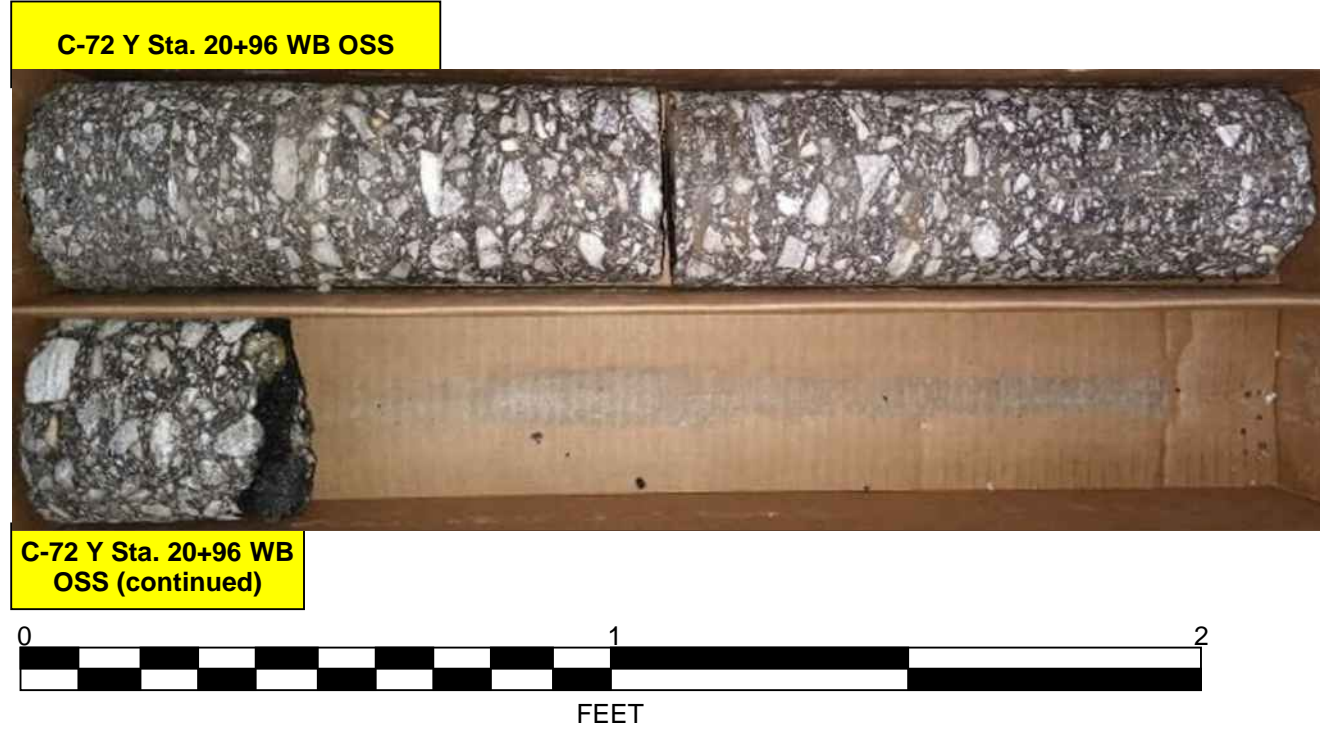
DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET				WBS NO.	PROJECT TIP I.D.	ROUTE					
				34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)					
				COUNTY	FIELD PROFESSIONAL	FIELD CREW					
				Haywood	M. Brewer	C. Odom/D. Underwood					
Test Location				Date Run	Test Location				Date Run		
C-101 Y_WB Sta. 20+65 WB OSS 6.2 FT RT FW				9/27-10/1, 10/11-10/13	C-102 Y_WB Sta. 20+65 WB ISS 4.5 FT LT FY				9/27-10/1, 10/11-10/13		
Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill	Type	Test Interval	Datum	Cut/Fill
DCP	Cumulative cm per blow	STBC	15.0 Cut	DCP	Cumulative cm per blow	STBC	15.0 ft Cut	DCP	Cumulative cm per blow	STBC	15.0 ft Cut
1.80				1.40	58.20	108.80					
2.30				2.00	59.10	109.40					
4.70				2.40	60.00	109.70					
6.00				2.70	61.00	110.10					
7.30				2.90	61.60	110.90					
8.70				3.40	62.40	111.40					
10.20				3.70	62.80	111.90					
11.40				4.00	63.70	112.30					
12.40				4.30	64.40	113.10					
14.00				4.70	65.30	113.50					
15.60				5.00	65.50	114.10					
16.90				5.20	66.40	114.30					
17.70				5.70	67.30	114.80					
18.60				6.30	68.00	115.20					
19.80				6.60	68.80	115.80					
21.00				7.00	69.60	116.20					
21.90				7.40	70.50	116.80					
22.70				7.70	71.50	117.30					
23.40				8.00	72.90	117.60					
24.20				8.40	74.60	118.00					
25.40				8.70	76.90	118.50					
26.50				9.20	79.10	119.00					
27.90				9.50	80.80	119.60					
29.10				9.70	81.60	120.10					
30.40				10.30	84.00	120.90					
31.90				10.70	84.70	121.20					
33.30				11.00	85.40	121.60					
34.90				11.60	86.10	122.30					
36.50				12.00	86.80	122.60					
38.20				12.50	87.30	123.10					
40.40				13.10	87.80	123.70					
42.50				13.60	88.60	124.20					
44.70				14.40	89.40	124.60					
46.70				15.00	89.70	125.20					
48.60				15.80	90.40						
50.40				16.60	90.70						
52.40				17.60	91.10						
54.40				18.60	91.90						
56.50				19.60	92.60						
58.50				20.60	93.50						
60.30				21.60	93.90						
62.40				22.60	94.70						
64.40				23.30	95.30						
66.10				24.50	95.60						
67.90				25.20	96.40						
69.60				26.30	97.00						
71.20				27.70	97.60						
72.70				29.00	98.10						
74.10				30.20	98.70						
75.90				30.70	99.30						
77.50				31.90	100.00						
79.40				33.40	100.70						
81.20				35.10	101.50						
82.90				37.10	102.10						
84.30				39.50	102.60						
86.30				41.90	102.90						
88.30				44.00	103.70						
				45.80	104.20						
				47.60	104.80						
				49.20	105.20						
				50.80	106.10						
				52.60	106.80						
				54.60	107.20						
				55.20	107.80						
				57.10	108.10						

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET										WBS NO.	PROJECT TIP I.D.	ROUTE
										34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)
										COUNTY	FIELD PROFESSIONAL	FIELD CREW
										Haywood	M. Brewer	C. Odom/D. Underwood
Test Location					Date Run	Test Location					Date Run	
C-103 Y_WB Sta. 27+11 WB OSS 6.0 FT RT FW					9/27-10/1, 10/11-10/13	C-105 Y_WB Sta. 27+11 WB MID-LANE 15.5 FT LT FW					9/27-10/1, 10/11-10/13	
Type	Test Interval	Datum			Cut/Fill	Type	Test Interval	Datum			Cut/Fill	
DCP	Cumulative cm per blow	STBC			10.0 ft Fill	DCP	Cumulative cm per blow	Drainage SAND			10.0 ft Fill	
1.80	64.20				2.00	59.50						
2.10	65.30				3.10	61.20						
2.60	66.60				4.40	62.90						
3.30	67.60				5.90	64.40						
3.80	68.50				6.90	66.50						
4.20	69.40				8.20	68.60						
4.80	70.60				9.30	70.50						
5.30	71.70				10.90	71.40						
5.70	72.60				12.50	74.20						
6.30	73.90				13.90	75.40						
6.80	75.30				15.20	78.90						
7.10	76.50				15.70	79.10						
7.60	77.70				15.80	80.40						
8.30	79.20				16.60	81.90						
8.60	80.40				17.00	83.40						
9.20	81.60				17.10	84.90						
9.70	82.90				17.30	86.40						
10.30	84.20				17.40	87.00						
11.00	85.50				17.50	88.80						
11.90	86.90				17.60	90.20						
12.50	88.50				17.70	92.00						
13.30	90.10				17.80							
14.10	91.60				17.90							
15.00	93.00				18.00							
16.20	94.20				18.18							
17.50	95.50				18.36							
19.40	97.00				18.54							
21.00	98.60				18.72							
22.70	100.40				18.90							
24.50	102.50				19.40							
26.30	104.00				20.00							
28.10	105.90				20.40							
29.70	106.10				20.80							
31.30	108.60				21.20							
32.60	110.20				21.90							
33.90					22.40							
35.20					22.90							
36.70					23.30							
38.20					24.10							
39.70					24.70							
40.90					25.70							
42.30					26.40							
43.20					27.60							
44.40					28.60							
45.60					30.20							
47.00					31.50							
48.50					33.00							
50.30					34.10							
51.40					35.00							
52.40					35.90							
52.90					36.90							
53.40					37.80							
53.60					38.80							
53.90					40.50							
54.40					42.00							
55.20					43.30							
55.60					45.00							
56.30					46.70							
57.00					48.20							
57.40					49.60							
58.60					51.20							
59.50					52.80							
60.40					54.50							
61.60					56.00							
62.90					57.80							

DUAL MASS DYNAMIC CONE PENETROMETER DATA SHEET										WBS NO.	PROJECT TIP I.D.	ROUTE
										34165.1.6	I-2513AA/AB	I-26 from I-40 to SR 3548 (Haywood Road)
										COUNTY	FIELD PROFESSIONAL	FIELD CREW
										Haywood	M. Brewer	C. Odom/D. Underwood
Test Location					Date Run	Test Location					Date Run	
C-106 Y_WB Sta. 27+11 WB ISL 4.2 FT RT FY					9/27-10/1, 10/11-10/13	C-104 Y_WB Sta. 27+12 WB OSL 1.6 FT LT FW					9/27-10/1, 10/11-10/13	
Type	Test Interval	Datum			Cut/Fill	Type	Test Interval	Datum			Cut/Fill	
DCP	Cumulative cm per blow	STBC			5.0 ft Cut	DCP	Cumulative cm per blow	STBC			10.0 ft Fill	
1.00	12.10	47.10			0.90	45.40	90.80					
1.60	12.80	48.30			1.50	45.80	92.00					
1.90	13.60	49.70			2.10	46.30	93.10					
2.00	14.10	50.90			2.50	47.20	94.30					
2.10	15.10	52.20			3.00	47.60	95.10					
2.20	15.70	53.70			3.40	48.10	96.00					
2.30	16.60	55.10			3.70	48.60	96.80					
2.40	17.00	56.60			4.00	49.10	97.50					
2.50	17.50	58.10			4.50	49.60	98.30					
2.60	18.20	59.30			5.00	50.10	99.20					
2.70	18.90	60.20			5.50	50.60	99.90					
2.80	19.40	61.40			6.00	50.90	100.50					
2.90	20.00	62.30			6.50	51.40	101.30					
2.93	20.60	63.40			7.10	52.00	101.90					
2.96	21.20	64.40			7.50	52.20	102.40					
2.99	22.00	65.40			8.10	52.90	102.70					
3.02	22.40	66.80			8.60	53.50	103.40					
3.05	23.30	68.00			9.40	54.20	104.30					
3.08	23.90	70.20			10.10	55.00	105.30					
3.11	24.40	71.20			10.90	55.70	106.40					
3.14	25.10	72.40			11.80	56.30	107.40					
3.17	25.50	73.20			12.60	57.20						
3.20	25.90	73.90			13.40	57.80						
3.24	26.00	74.40			14.50	58.50						
3.28	26.70	75.70			15.60	59.50						
3.32	26.80	76.30			17.20	59.80						
3.36	27.30	77.30			18.50	60.40						
3.40	27.50	77.80			19.60	61.10						
3.44	27.90	78.80			20.70	61.70						
3.48	28.10	79.60			22.20	62.60						
3.52	28.30	80.70			23.40	63.20						
3.56	28.70	81.60			24.80	64.00						
3.60	28.90	82.90			26.40	64.50						
3.67	29.20	84.30			28.00	65.00						
3.74	30.00	85.70			29.50	65.70						
3.81	30.50	86.30			30.80	66.50						
3.88	30.90	86.90			31.90	67.00						
3.95	31.30	87.50			32.90	67.70						
4.02	31.80	88.30			34.20	68.70						
4.09	32.30	89.20			35.20	69.40						
4.16	32.80	89.90			36.20	70.30						
4.23	33.10	90.50			37.10	70.90						
4.30	33.30	91.60			37.60	71.80						
4.46	33.40	92.80			38.00	72.40						
4.62	33.70	93.10			38.80	73.20						
4.78	33.80				39.10	74.50						
4.94	34.10				39.32	75.10						
5.10	34.20				39.54	75.90						
5.26	34.40				39.76	76.60						
5.42	34.60				39.98	77.30						
5.58	35.00				40.20	78.00						
5.74	35.10				40.48	78.60						
5.90	35.70				40.76	79.30						
6.14	36.30				41.04	80.00						
6.38	36.70				41.32	80.80						
6.62	37.30				41.60	81.60						
6.86	37.70				41.86	82.30						
7.10	38.20				42.12	83.10						
7.60	38.80				42.38	83.90						
7.90	39.40				42.64	84.80						
8.20	40.50				42.90	85.50						
8.60	41.50				43.30	86.60						
9.50	42.80				43.70	87.60						
10.40	44.00				44.30	88.60						
11.40	45.40				44.80	89.60						

I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



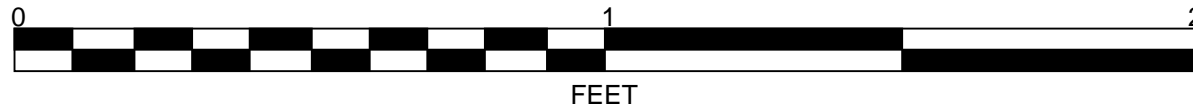
I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs

C-79 Y Sta. 28+56 WB MERGE LANE



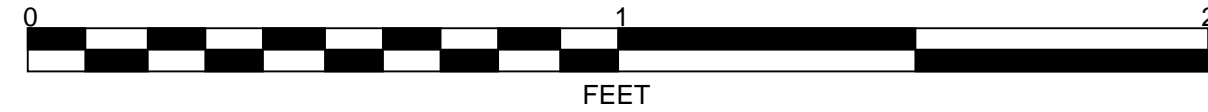
C-79 Y Sta. 28+56 WB MERGE LANE (continued)



C-82 Y Sta. 37+45 WB OSS



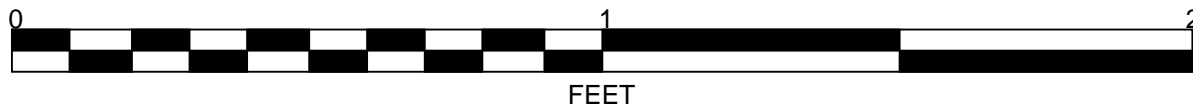
C-82 Y Sta. 37+45 WB OSS (continued)



C-80 Y Sta. 31+41 WB OSS



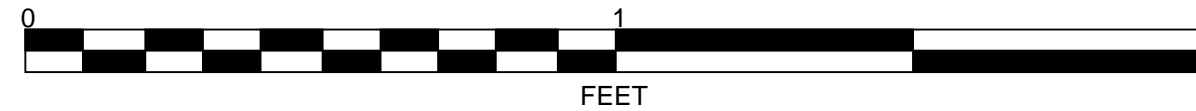
C-80 Y Sta. 31+41 WB OSS (continued)



C-83 Y Sta. 41+94 WB OSS

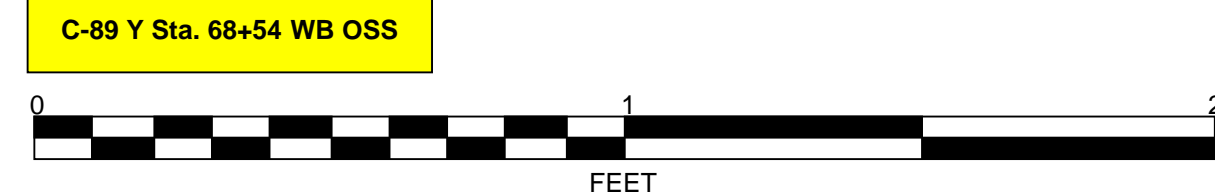
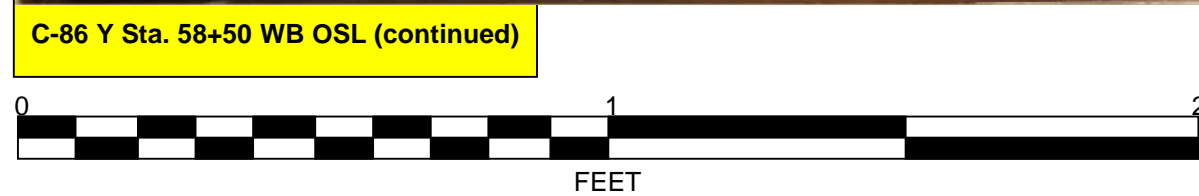
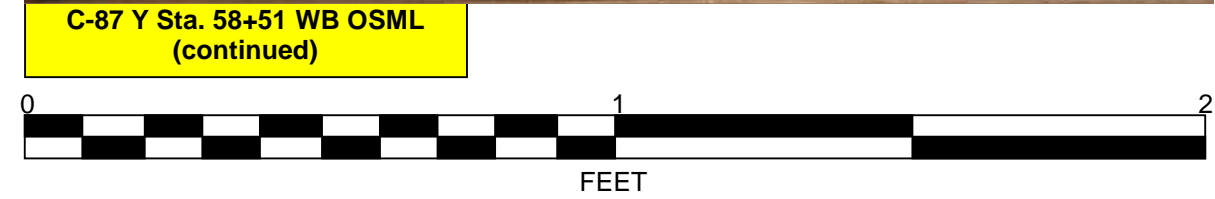
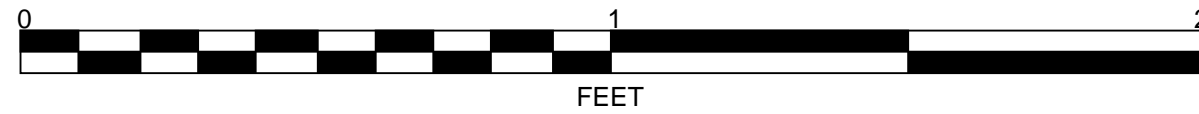


C-84 Y Sta. 50+37 WB OSS



I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



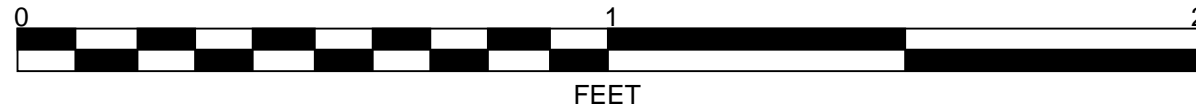
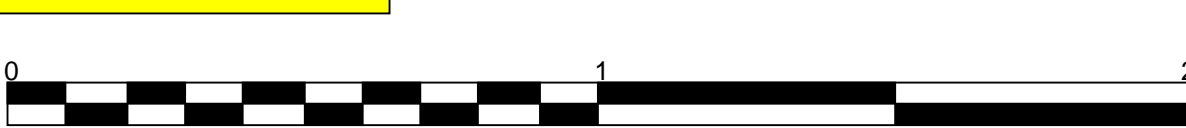
I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs

C-90 Y Sta. 75+02 WB OSS



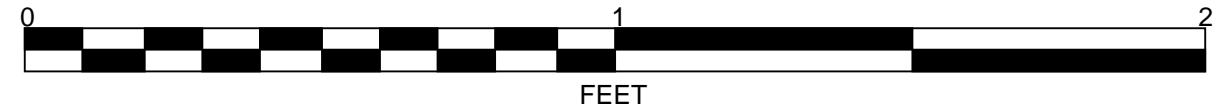
C-91 Y Sta. 80+09 WB OSS



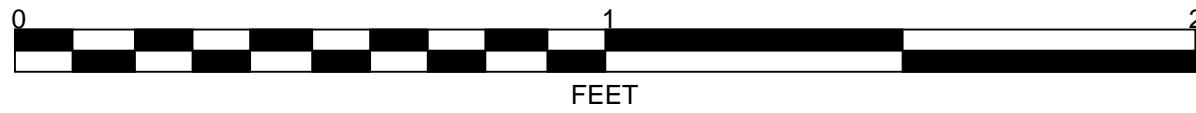
C-93 Y Sta. 88+85 WB OSS



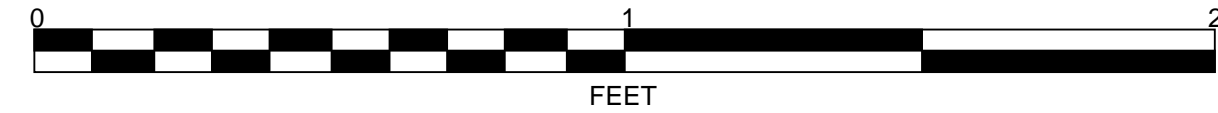
C-93 Y Sta. 88+85 WB OSS
(continued)



C-92 Y Sta. 85+47 WB OSS

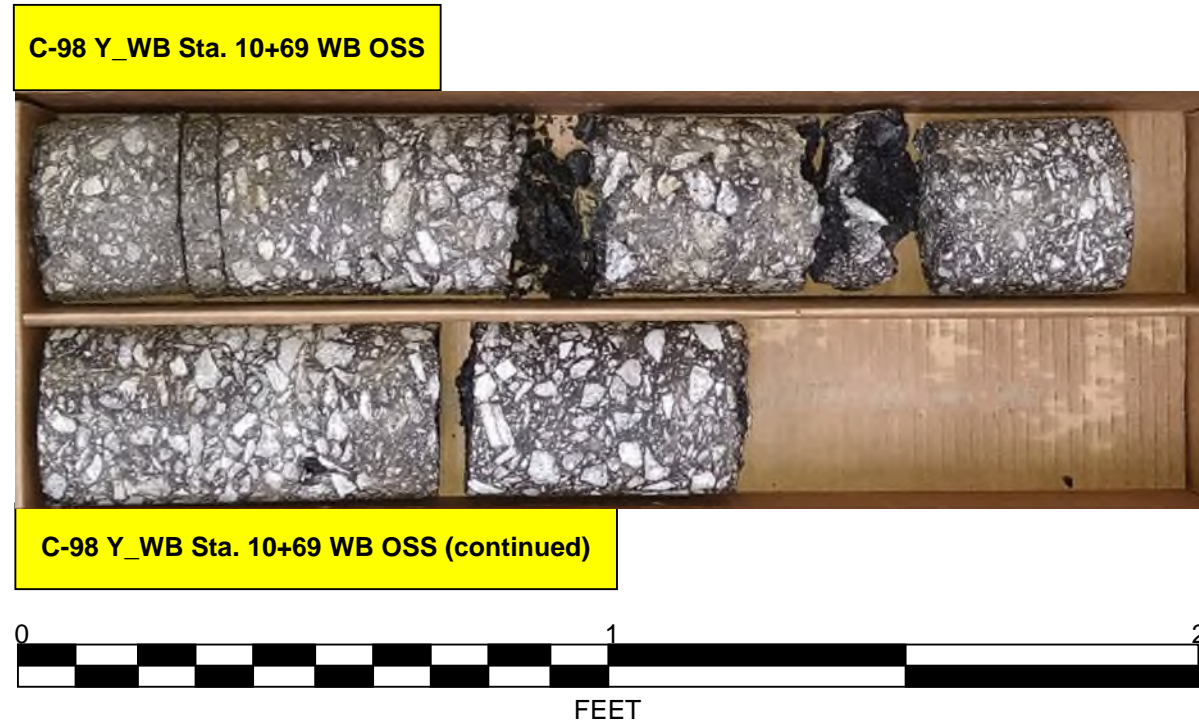
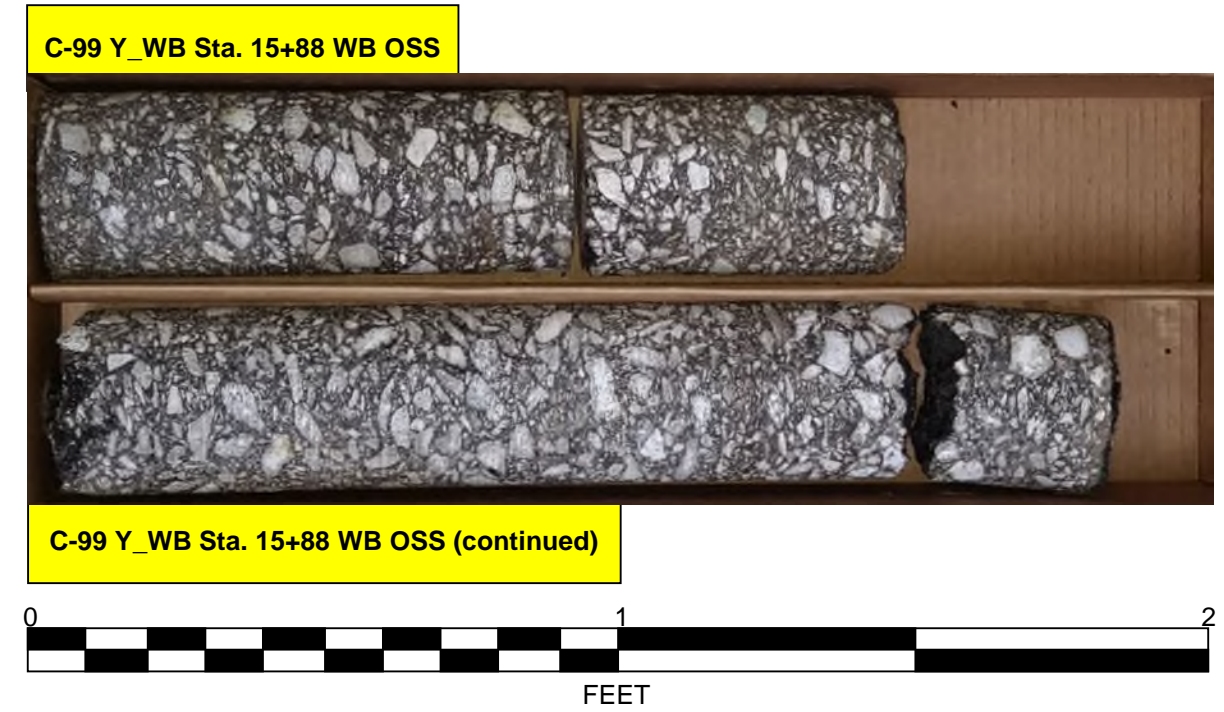
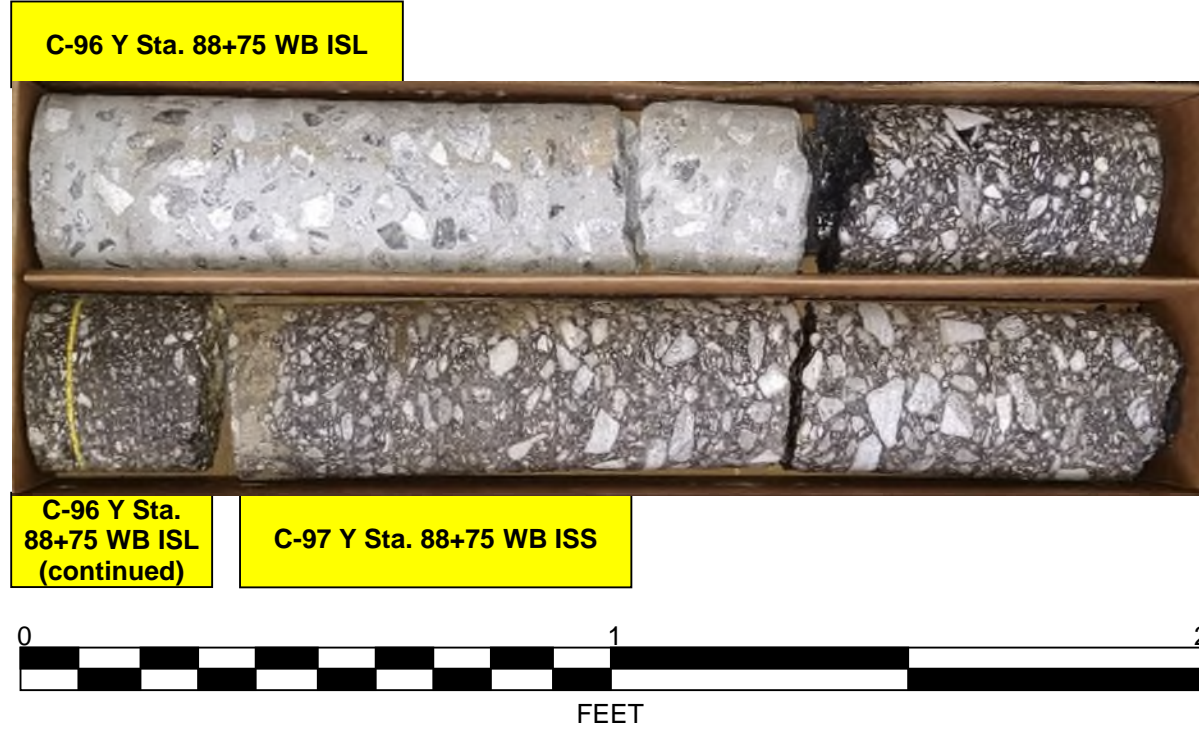


C-94 Y Sta. 88+74 WB OSL



I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs



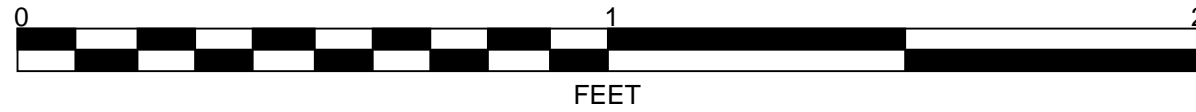
I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs

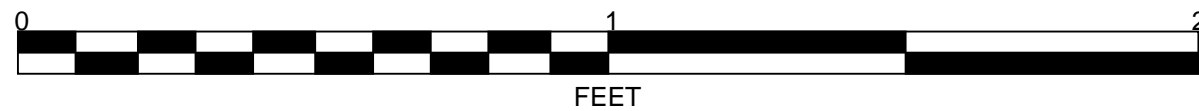
C-101 Y_WB Sta. 20+65 WB OSS



C-101 Y_WB Sta. 20+65 WB OSS (continued)



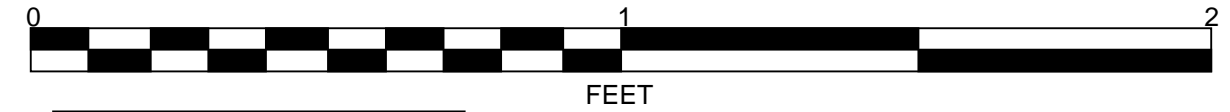
C-102 Y_WB Sta. 20+65 WB ISS



C-103 Y_WB Sta. 27+11 WB OSS



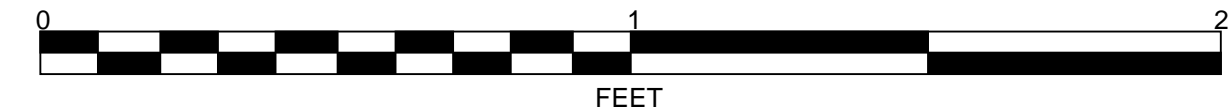
C-105 Y_WB Sta. 27+11 WB MID-LANE



C-106 Y_WB Sta. 27+11 WB ISL



C-104 Y_WB Sta. 27+12 WB OSL



I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

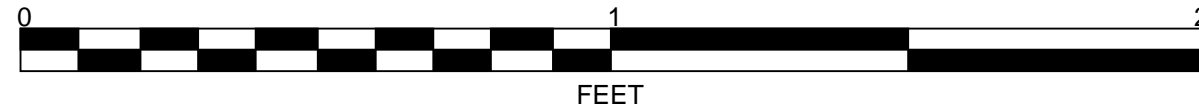
Pavement Core Photographs

C-107 Y_WB Sta. 27+12 WB ISS



C-107 Y_WB Sta. 27+12
WB ISS (continued)

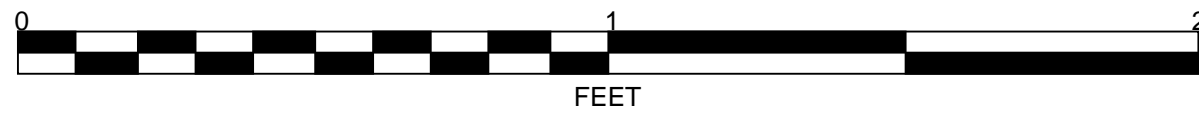
C-108 Y_WB Sta. 32+51 WB
OSS



C-109 Y_WB Sta. 32+52 WB ISS



C-109 Y_WB Sta. 32+52 WB
ISS (continued)



SOIL TEST RESULTS

SAMPLE NO.	ALIGNMENT	LANE	OFFSET	STATION	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
									C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-72	Y	WB OSS	4.0 RT FW	20+96	2.8-5.0	A-4(1)	32	4	17.0%	34.8%	30.2%	18.1%	98.9%	90.5%	53.3%	16.6%	ND
S-73	Y	WB OSL	4.0 LT FW	20+96	2.7-5.0	A-4(0)	48	NP	12.2%	22.9%	38.8%	26.1%	99.3%	93.9%	69.1%	17.4%	ND
S-75	Y	WB ISL (O)	9.5 RT FY	20+96	2.6-5.0	A-4(0)	51	NP	9.2%	14.6%	54.1%	22.1%	99.5%	94.6%	78.6%	29.5%	ND
S-78	Y	WB OSS	11.8 RT FW	26+00	2.9-5.0	A-4(0)	44	NP	24.7%	27.2%	32.0%	16.0%	92.9%	81.9%	48.5%	12.0%	ND
S-79	Y	WB MERGE LANE	2.0 LT FW	28+56	3.3-5.0	A-4(0)	42	NP	23.8%	28.7%	25.4%	22.1%	78.4%	67.4%	41.7%	22.7%	ND
S-80	Y	WB OSS	4.7 RT FW	31+41	2.8-5.0	A-5(3)	45	8	24.0%	23.4%	24.5%	28.1%	94.0%	79.1%	54.0%	23.8%	ND
S-82	Y	WB OSS	9.5 RT FW	37+45	3.1-5.0	A-4(0)	44	NP	34.1%	21.5%	28.4%	16.1%	94.8%	72.3%	45.6%	27.5%	ND
S-83	Y	WB OSS	9.4 RT FW	41+94	1.8-5.0	A-1-b	30	NP	48.8%	25.0%	20.2%	6.0%	61.6%	41.1%	18.1%	5.9%	ND
S-84	Y	WB OSS	6.5 RT FW	50+37	1.8-5.0	A-4(0)	33	NP	19.0%	38.7%	26.2%	16.1%	86.5%	77.0%	44.0%	14.2%	ND
S-85	Y	WB OSS	6.2 RT FW	58+51	2.0-5.0	A-4(0)	31	NP	21.9%	34.9%	29.2%	14.0%	84.5%	72.6%	44.7%	11.6%	ND
S-87	Y	WB OSML	15.5 LT FW	58+51	2.8-5.0	A-4(0)	36	NP	23.1%	28.6%	30.2%	18.1%	87.8%	74.8%	47.5%	8.6%	ND
S-88	Y	WB OSS	6.6 RT FW	63+40	1.8-5.0	A-4(0)	30	NP	19.3%	38.6%	28.1%	14.0%	90.7%	80.4%	45.1%	12.2%	ND
S-89	Y	WB OSS	5.5 RT FW	68+54	3.5-5.0	A-4(0)	31	NP	24.6%	35.6%	23.8%	16.1%	85.1%	72.2%	40.6%	19.3%	ND
S-90	Y	WB OSS	6.0 RT FW	75+02	1.8-5.0	A-4(0)	31	NP	22.0%	36.9%	25.0%	16.1%	89.6%	77.2%	43.3%	13.9%	ND
S-91	Y	WB OSS	6.0 RT FW	80+09	1.7-5.0	A-4(0)	36	NP	30.9%	32.4%	20.6%	16.0%	94.5%	76.0%	40.9%	15.1%	ND
S-92	Y	WB OSS	5.8 RT FW	85+47	1.7-3.0	A-4(0)	31	NP	23.0%	22.0%	18.8%	36.2%	96.6%	82.7%	57.0%	19.1%	ND
S-96	Y	WB ISL	2.4 RT FY	88+75	2.8-5.0	A-4(0)	36	NP	24.9%	28.3%	28.7%	18.0%	98.8%	85.3%	51.9%	13.0%	ND
S-97	Y	WB ISS	3.7 LT FY	88+75	2.2-5.0	A-4(0)	33	NP	22.3%	33.3%	30.3%	14.0%	96.2%	82.2%	49.4%	6.7%	ND
S-93	Y	WB OSS	6.3 RT FW	88+85	3.3-5.0	A-4(2)	35	8	22.3%	28.8%	20.8%	28.1%	88.5%	76.8%	47.9%	10.6%	ND
S-98	Y_WB	WB OSS	2.1 RT FW	10+69	3.1-5.0	A-4(0)	38	NP	26.1%	30.7%	29.1%	14.1%	93.7%	79.5%	45.9%	31.7%	ND
S-100	Y_WB	WB ISS	1.5 LT FY	15+88	2.0-5.0	A-4(0)	31	NP	20.5%	37.0%	34.5%	8.0%	92.1%	82.4%	46.4%	10.1%	ND
S-102	Y_WB	WB OSS	4.5 RT FW	20+65	1.8-5.0	A-4(1)	31	5	30.5%	20.2%	27.2%	22.1%	96.0%	73.6%	51.9%	16.7%	ND
S-106	Y_WB	WB ISL	4.2 RT FY	27+11	2.6-5.0	A-4(0)	32	NP	25.1%	32.9%	26.0%	16.0%	86.6%	72.0%	42.4%	10.9%	ND
S-104	Y_WB	WB OSL	1.6 LT FW	27+12	2.0-5.0	A-4(0)	35	NP	21.1%	30.2%	26.7%	22.0%	91.8%	79.7%	50.8%	15.7%	ND
S-108	Y_WB	WB OSS	6.0 RT FW	32+51	2.3-5.0	A-2-4	30	NP	26.1%	37.4%	22.5%	14.0%	79.1%	65.2%	34.6%	9.6%	ND

*FROM WHITE LINE (FW)

*FROM YELLOW LINE (FY)

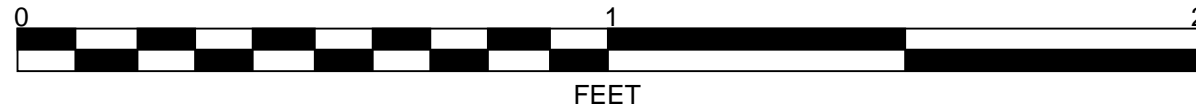
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NCDOT LAB CERT. NO. 132-0212

I-2513AA/AB - I-26 from I-40 to SR 3548 (Haywood Road)

Pavement Core Photographs

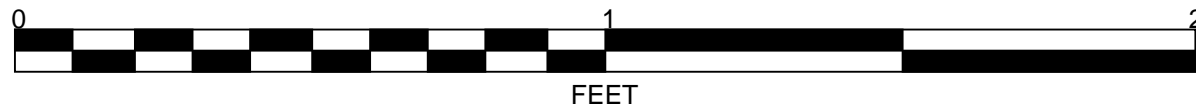
C-36 Y5RPC Sta. 15+80 EB RAMP OSS



C-81 Y5RPB Sta. 14+04 WB RAMP OSS



C-81 Y5RPB Sta. 14+04 WB
RAMP OSS (continued)



SOIL TEST RESULTS

SAMPLE NO.	ALIGNMENT	LANE	OFFSET	STATION	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
									C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
S-81	Y5RPB	WB RAMP OSS	6.8 RT FW	14+04	3.1-5.0	A-4(1)	40	6	24.8%	31.0%	22.0%	22.1%	90.7%	77.1%	44.9%	23.2%	ND

*FROM WHITE LINE (FW)

*FROM YELLOW LINE (FY)

Prepared in the Office of:

F&ME CONSULTANTS, INC.
COLUMBIA, SOUTH CAROLINA
NCDOT LAB CERT. NO. 132-0212

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
LABORATORY TEST RESULTS (CHEMICAL)

REFERENCE: I-2513AA/AB

PROJECT: 34165

Prepared in the Office of:

F&ME CONSULTANTS, INC.
COLUMBIA, SOUTH CAROLINA
NCDOT LAB CERT. NO. 132-0212

F&ME CONSULTANTS, INC.
3112 DEVINE STREET, COLUMBIA SC 29205
(CERT No.: 130-0212)

Project Asheville I-26 Connector **T.I.P. No.** I-2513A **County** Buncombe **F&ME Job No.** C8806 - Task 00003
Date Received 10/5/2021 **Date Reported** 11/9/2021 **Tested By** J. Hiers **CERT No.:** 130-04-0212

SOIL TEST RESULTS

SAMPLE NO.	OFFSET	STATION	DEPTH INTERVAL (ft.)	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			%	%
							C. SAND	F. SAND	SILT	CLAY	10	40	200	MOISTURE	ORGANIC
Bulk-1	RT	80+34	1.0 - 3.0	A-2-4	28	NP	45.3%	26.5%	22.1%	6.0%	91%	60%	30.0%	14.5%	ND
Bulk-2	RT	20+62	1.0 - 3.0	A-4(0)	39	NP	27.5%	36.9%	31.6%	4.0%	95%	79%	40.3%	28.0%	ND
Bulk-3	LT	43+96	1.0 - 3.0	A-2-4	32	NP	34.0%	35.4%	20.5%	10.0%	78%	61%	28.7%	15.3%	ND
Bulk-4	LT	20+42	1.0 - 3.0	A-2-4	39	NP	33.7%	33.4%	22.8%	10.1%	82%	63%	31.6%	19.2%	ND
Bulk-5	LT	52+17	1.0 - 3.0	A-7-5(2)	41	11	32.6%	27.5%	19.8%	20.1%	93%	71%	41.5%	17.3%	ND

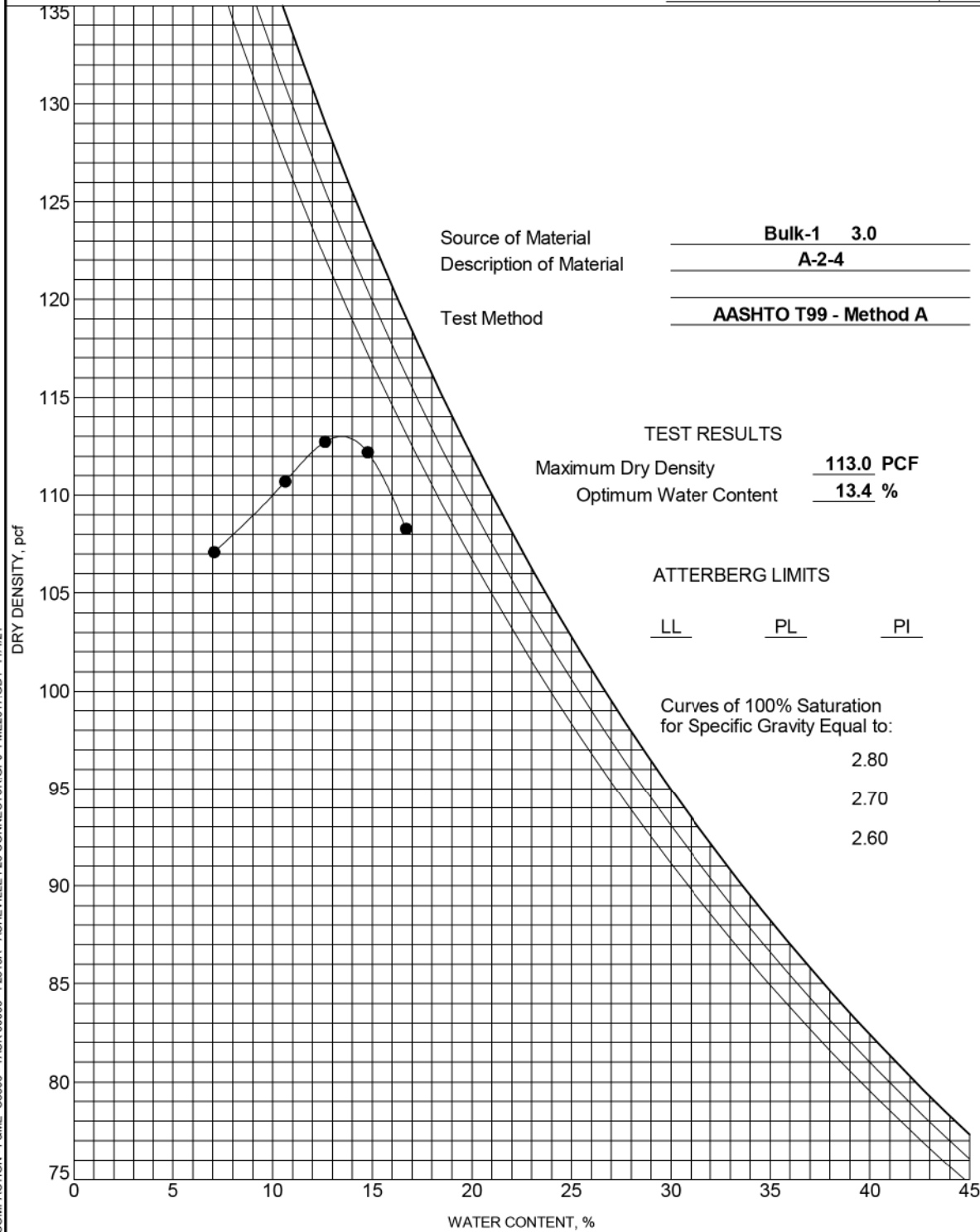


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID C8806.000 - Task 00003 (NCDOT TIP# I-1513A)

PROJECT NAME Asheville I-26 Connector

PROJECT LOCATION Asheville I-26 Connector - Buncombe Co., North Carolina



I-2513AA/AB

REV 08/2021

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

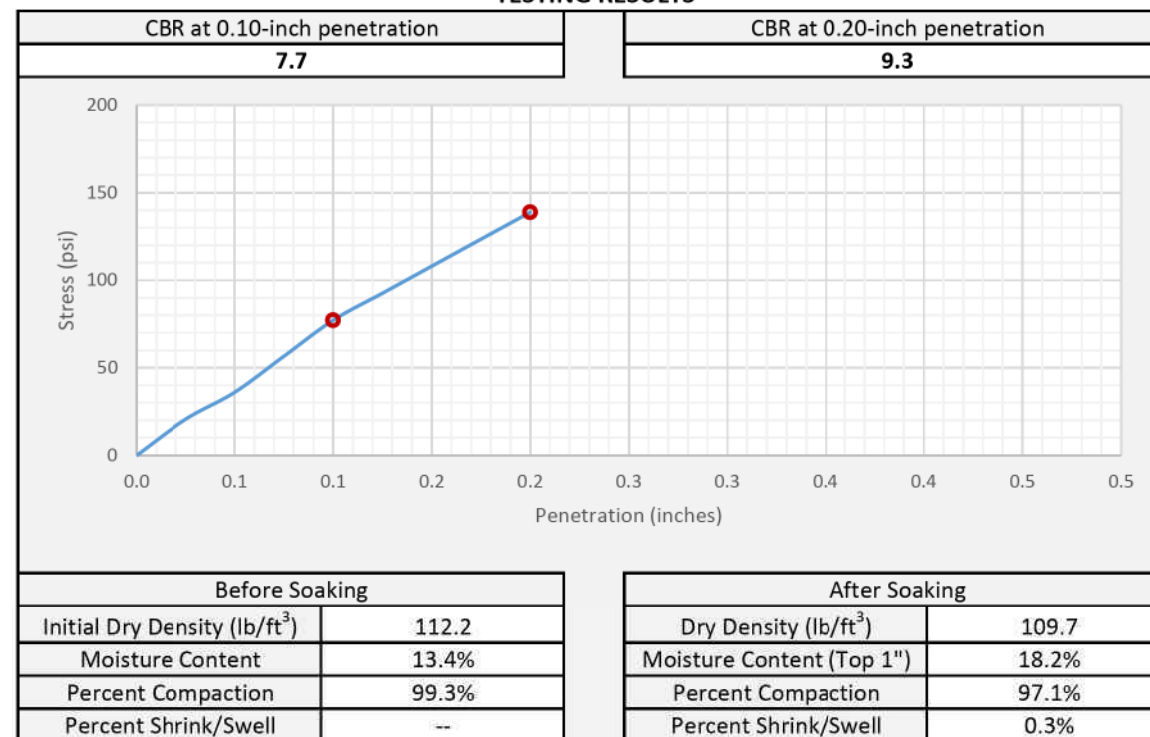
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-1 (Specimen 1)		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	113.0	Optimum Moisture Content (%)	13.4
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=28, PL=NP, PI=NP, %Passing #200 Sieve = 30.0
80+34 - RT



F&ME Consultants, Inc.
3112 Devine Street, Columbia, SC 29205

Jerry P. Davis
Reviewed By

130-04-0212
NCDOT Certification No.
10/22/21
Date

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REV 08/2021

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

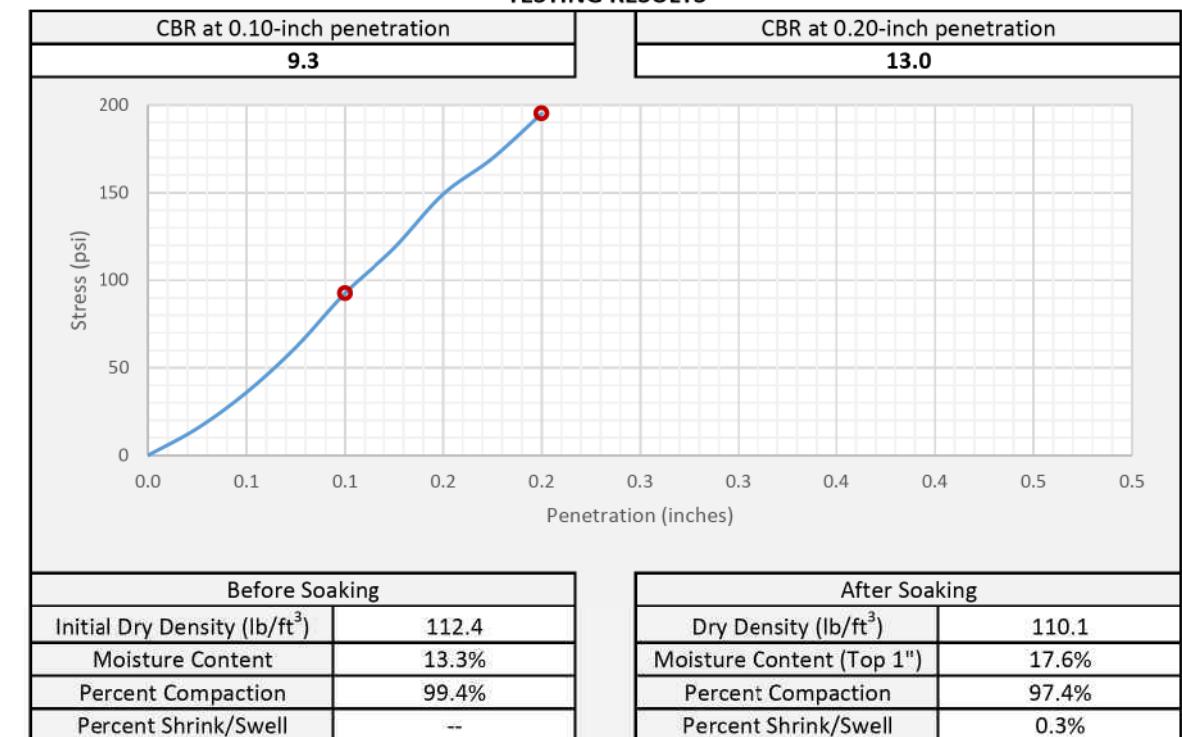
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-1 (Specimen 2)		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	113.0	Optimum Moisture Content (%)	13.4
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=28, PL=NP, PI=NP, %Passing #200 Sieve = 30.0
80+34 - RT

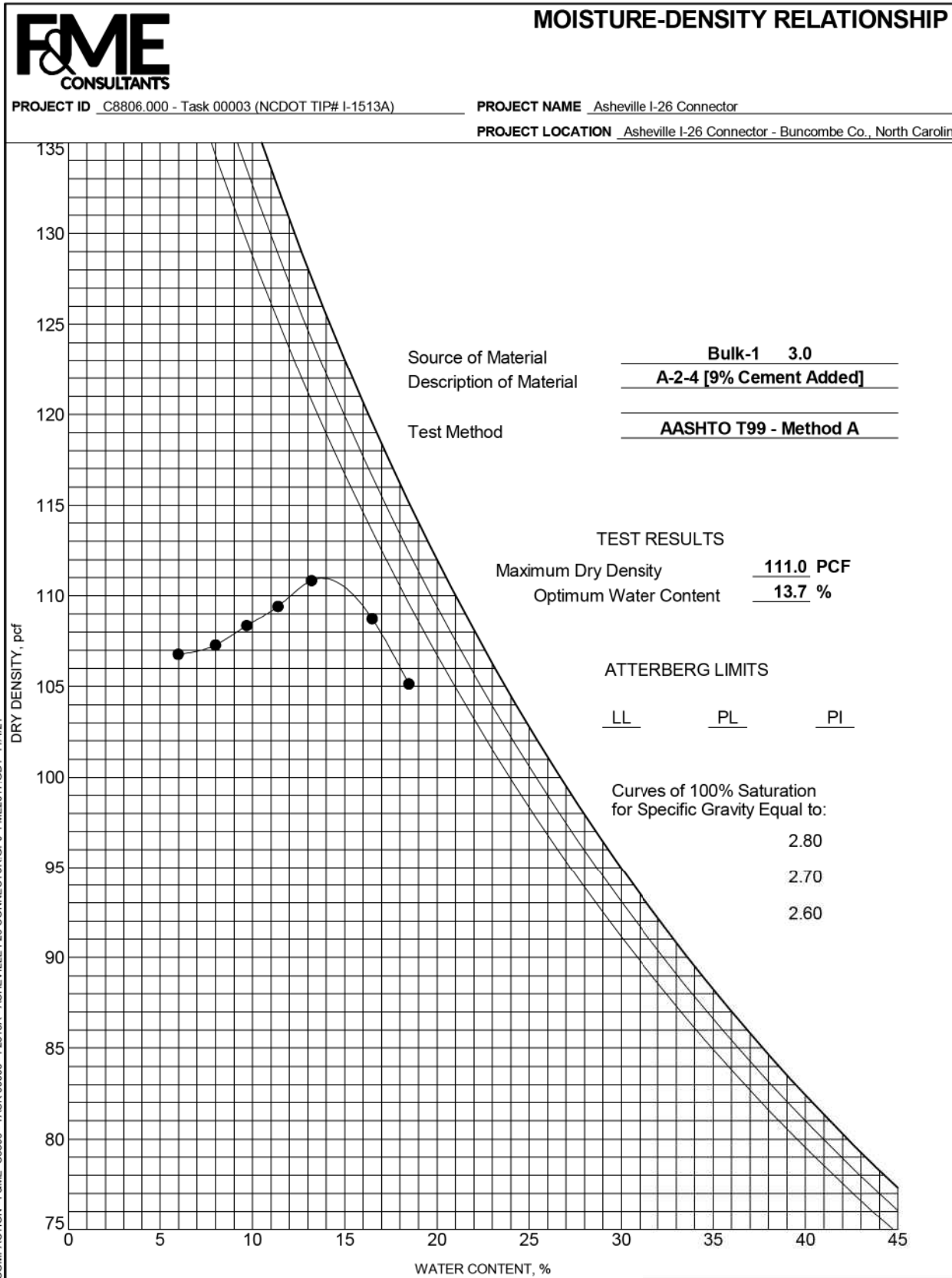


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REV 08/2021

**COMPRESSIVE STRENGTH OF MOLDED SOIL-CEMENT CYLINDERS
ASTM D-1633**

SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-1		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0 - 3.0 ft.	
Station	80+34		Offset	RT	
Date Sampled	10/01/21	Sampled By:	CG2	Date Received	10/05/21
Date Molded	10/27/21	Date Tested	11/03/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Cement Added to Proctor	9%
Max Dry Density (lb/ft ³)	111.0	Optimum Moisture Content (%)	13.7

TESTING RESULTS

% Cement	Age (Days)	Moisture Content	Height (in.)	Diameter (in.)	Area (in. ²)	Maximum Load (lbf)	Compressive Strength (psi)	Average Compressive Strength (psi)
8%	7	13.3%	4.590	3.996	12.54	6,126	490	480
8%	7	13.2%	4.620	3.996	12.54	5,942	475	
10%	7	13.3%	4.609	3.997	12.55	7,413	590	570
10%	7	13.2%	4.605	3.998	12.55	6,959	555	

ADDITIONAL COMMENTS

Bulk Soil Sample Data (without Cement Added):
 LL=28, PL=NP, PI=NP
 %Passing #200 Sieve = 30.0%
 As-Received Natural Moisture Content = 14.5%

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	Date	11/03/21

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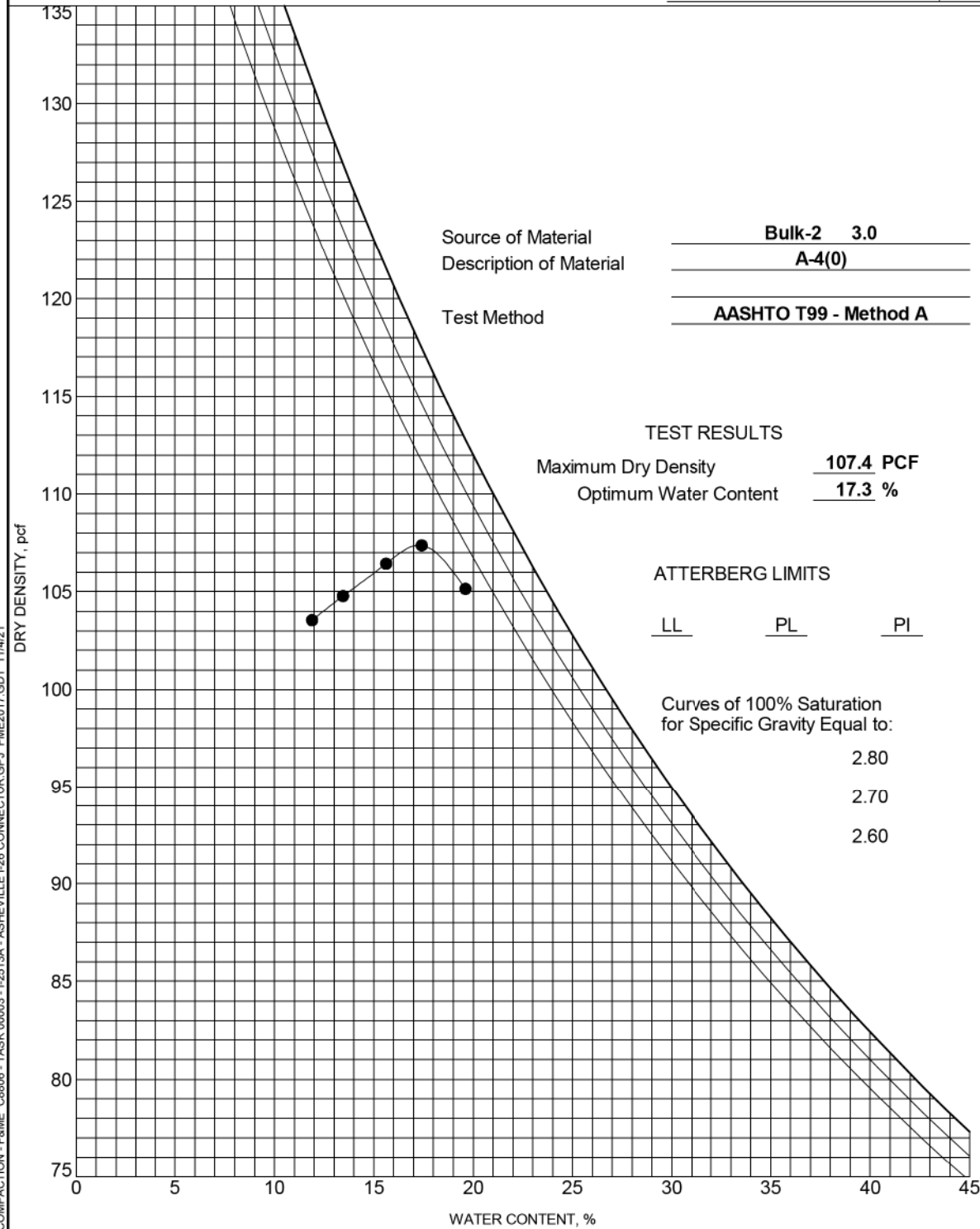


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID C8806.000 - Task 00003 (NCDOT TIP# I-1513A)

PROJECT NAME Asheville I-26 Connector

PROJECT LOCATION Asheville I-26 Connector - Buncombe Co., North Carolina



REV 08/2021

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

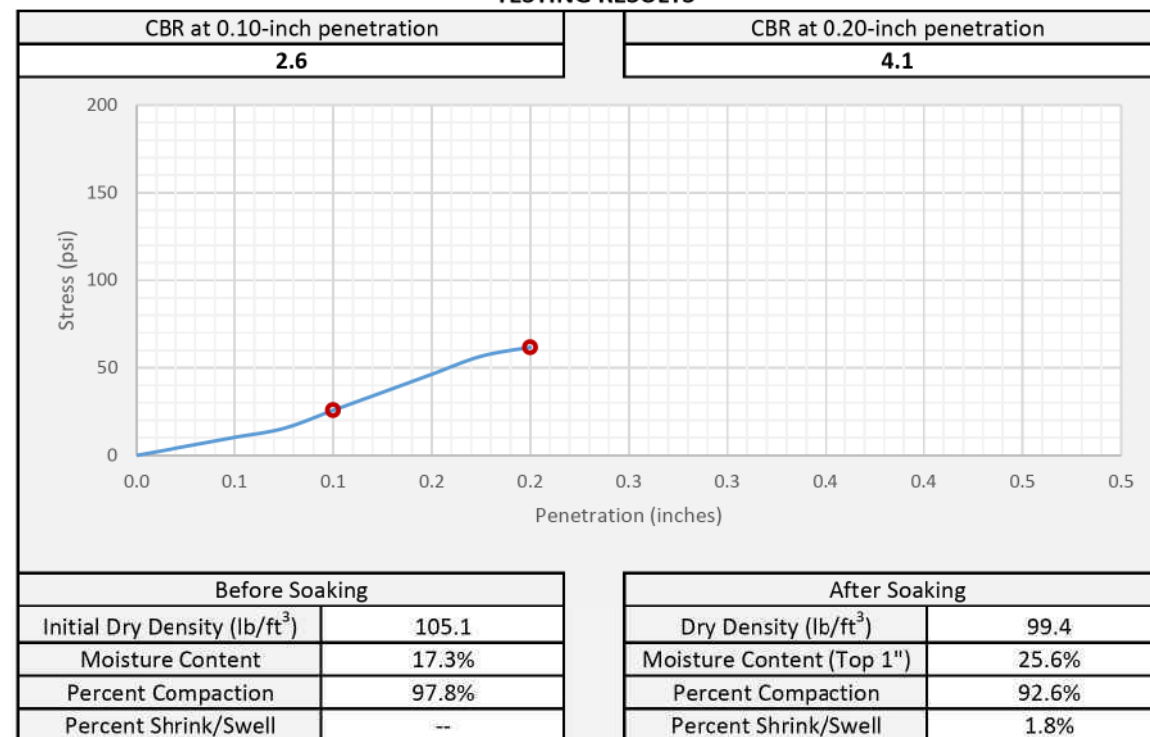
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-2 (Specimen 1)		FME Lab ID	21-2278	
Soil Description	A-4(0)		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	107.4	Optimum Moisture Content (%)	17.3
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=39, PL=NP, PI=NP, %Passing #200 Sieve = 40.3
20+62 - RT



F&ME Consultants, Inc.
3112 Devine Street, Columbia, SC 29205

Jerry P. Davis
Reviewed By

130-04-0212
NCDOT Certification No.
10/22/21
Date

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REV 08/2021

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

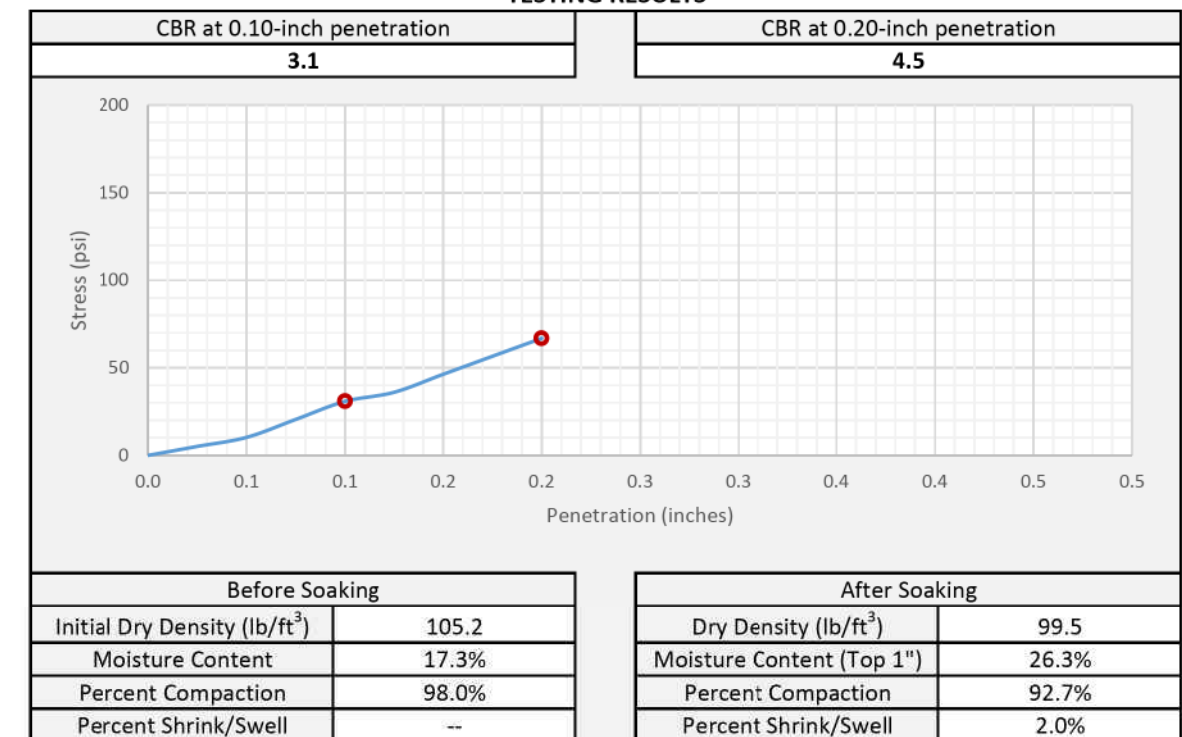
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-2 (Specimen 2)		FME Lab ID	21-2278	
Soil Description	A-4(0)		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	107.4	Optimum Moisture Content (%)	17.3
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=39, PL=NP, PI=NP, %Passing #200 Sieve = 40.3
20+62 - RT

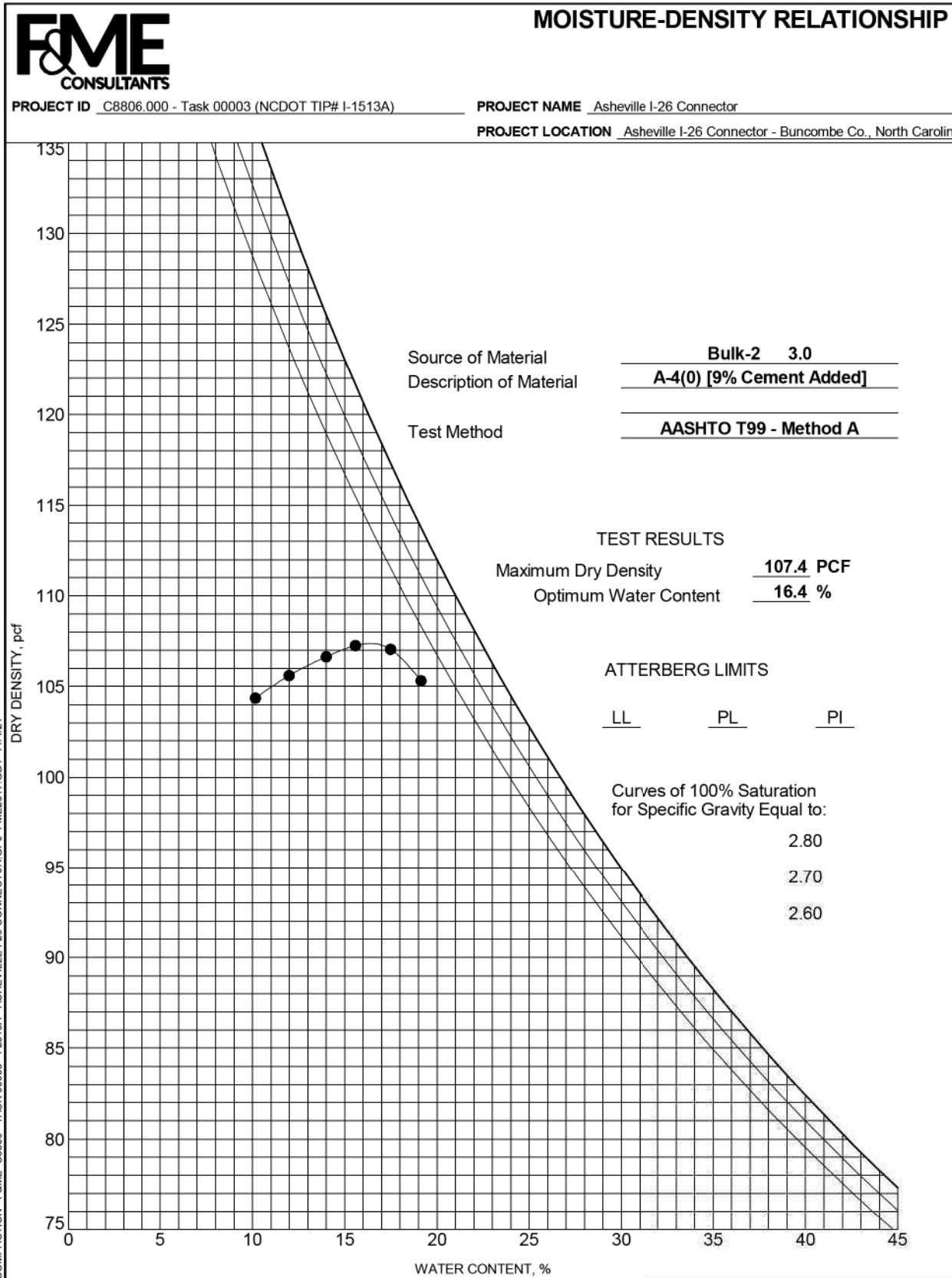


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Jerry P. Davis
Reviewed By

130-04-0212
NCDOT Certification No.
10/22/21
Date

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REV 08/2021

**COMPRESSIVE STRENGTH OF MOLDED SOIL-CEMENT CYLINDERS
ASTM D-1633**

SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-2		FME Lab ID	21-2279	
Soil Description	A-4(0)		Depth/Elev.	1.0 - 3.0 ft.	
Station	20+62		Offset	RT	
Date Sampled	10/01/21	Sampled By:	CG2	Date Received	10/05/21
Date Molded	10/27/21	Date Tested	11/03/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Cement Added to Proctor	9%
Max Dry Density (lb/ft ³)	107.4	Optimum Moisture Content (%)	16.4

TESTING RESULTS

% Cement	Age (Days)	Moisture Content	Height (in.)	Diameter (in.)	Area (in. ²)	Maximum Load (lbf)	Compressive Strength (psi)	Average Compressive Strength (psi)
8%	7	16.0%	4.604	3.995	12.53	3,582	285	290
8%	7	15.8%	4.591	3.996	12.54	3,552	285	
10%	7	15.9%	4.610	3.996	12.54	4,046	325	330
10%	7	15.8%	4.613	3.999	12.56	4,072	325	

ADDITIONAL COMMENTS

Bulk Soil Sample Data (without Cement Added):
 LL=39, PL=NP, PI=NP
 %Passing #200 Sieve = 40.3%
 As-Received Natural Moisture Content = 28.0%

<p>F&ME Consultants, Inc. 3112 Devine Street, Columbia, SC 29205</p>	 Reviewed By	130-04-0212 NCDOT Certification No
		11/03/21 Date

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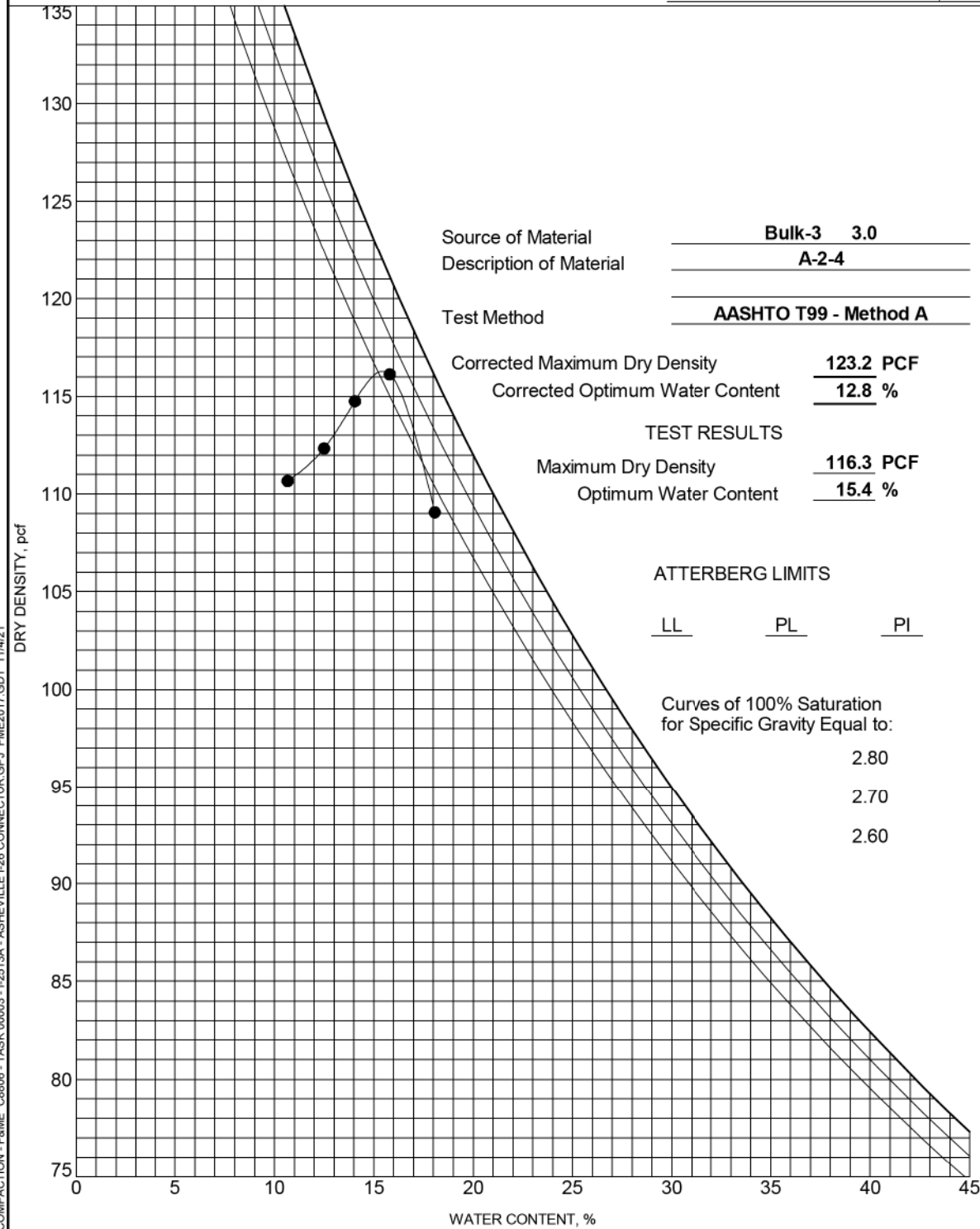


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID C8806.000 - Task 00003 (NCDOT TIP# I-1513A)

PROJECT NAME Asheville I-26 Connector

PROJECT LOCATION Asheville I-26 Connector - Buncombe Co., North Carolina



COMPACTION - F&ME_C8806 - TASK 00003 - I-2513A - ASHEVILLE I-26 CONNECTOR.GPJ_FME2017.GDT_11/4/21

REV 08/2021

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

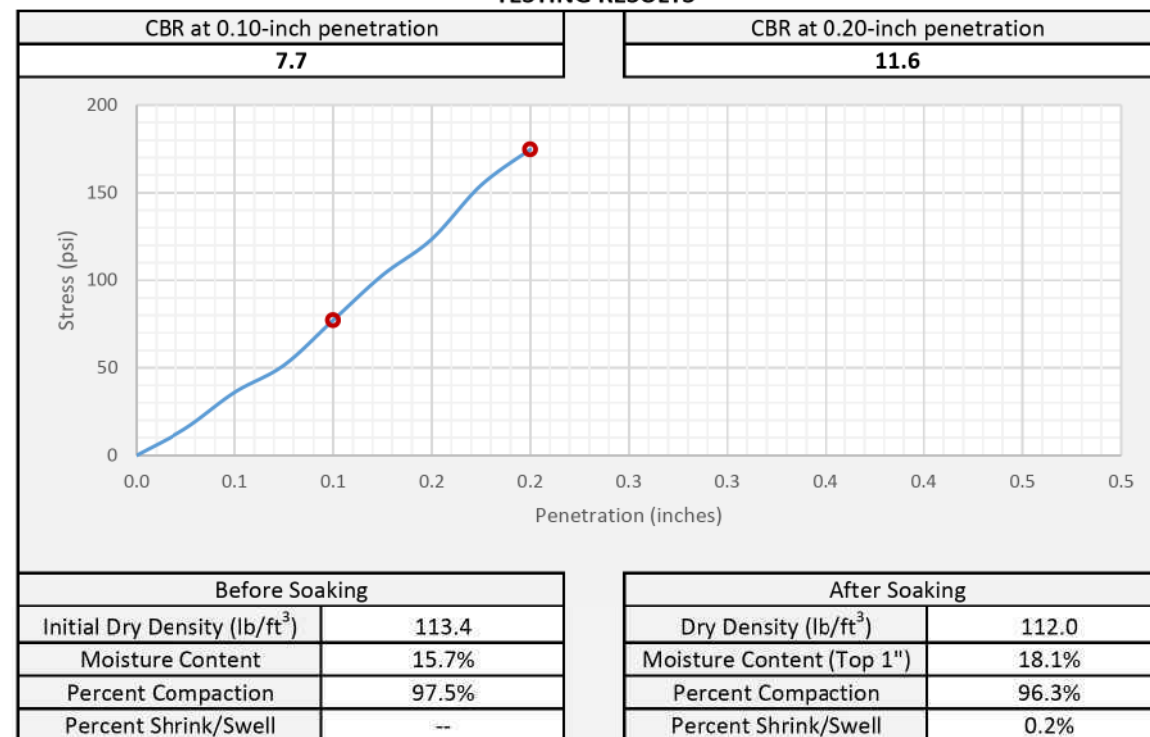
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-3 (Specimen 1)		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	116.3	Optimum Moisture Content (%)	15.4
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=32, PL=NP, PI=NP, %Passing #200 Sieve = 28.7
43+96 - LT



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3112 Devine Street, Columbia, SC 29205

Jerry P. Davis
Reviewed By

130-04-0212
NCDOT Certification No.
10/22/21
Date

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REV 08/2021

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

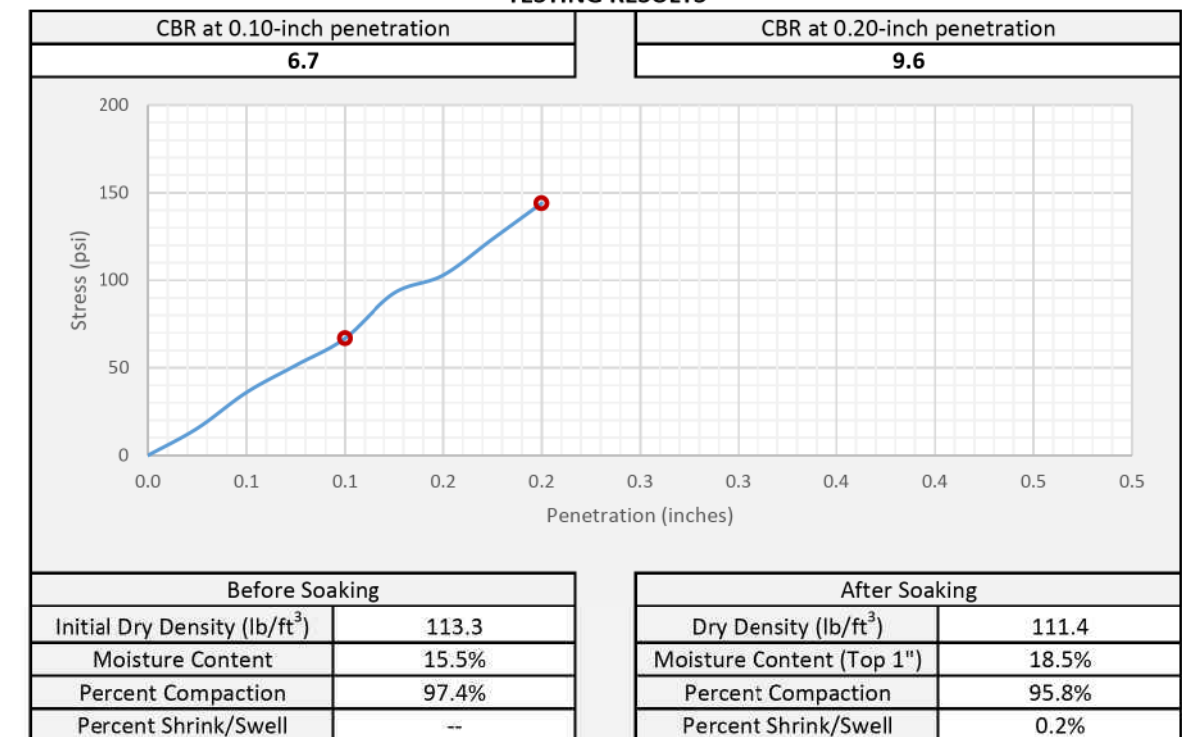
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-3 (Specimen 2)		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	116.3	Optimum Moisture Content (%)	15.4
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=32, PL=NP, PI=NP, %Passing #200 Sieve = 28.7
43+96 - LT

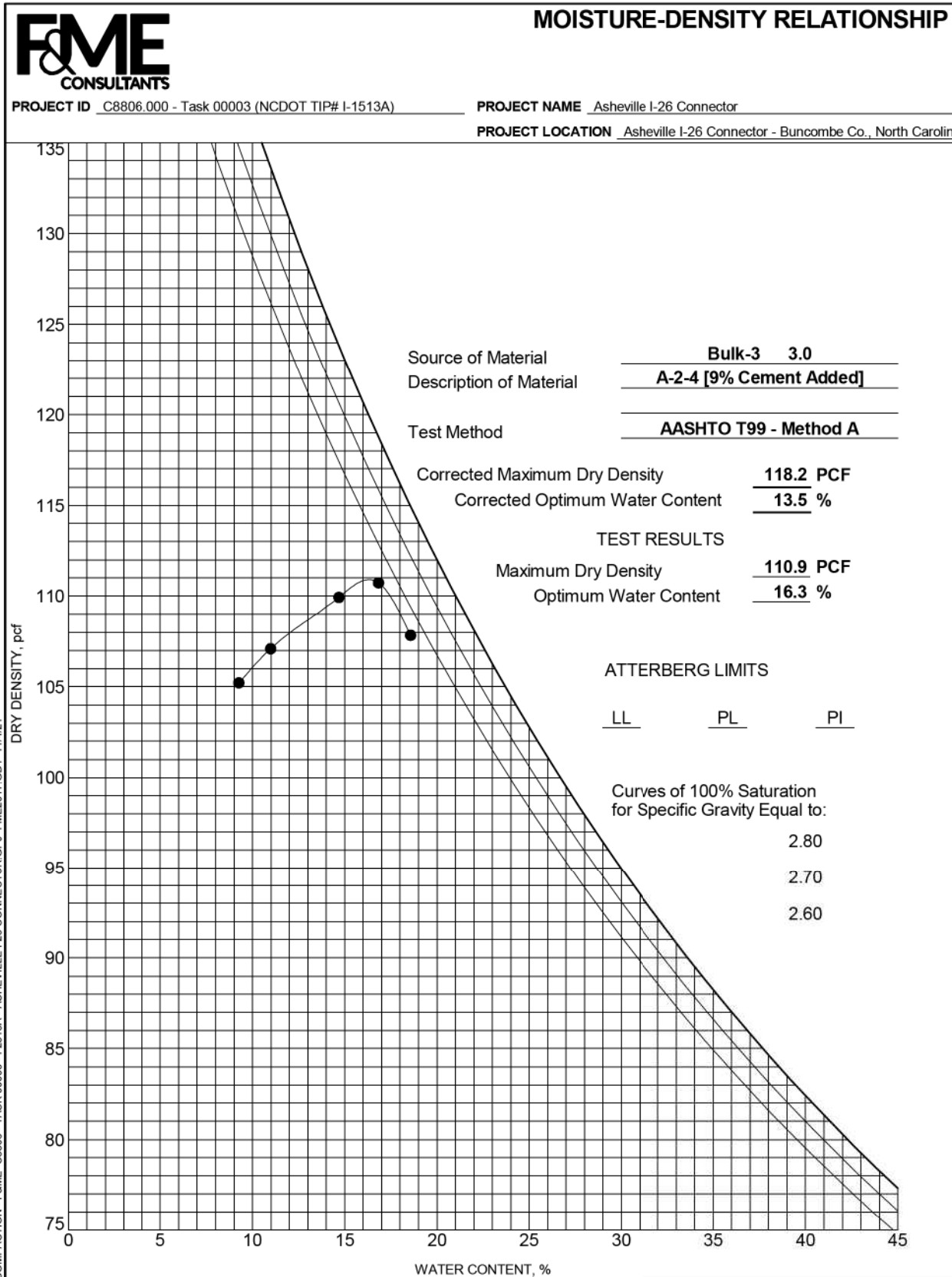


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REV 08/2021

**COMPRESSIVE STRENGTH OF MOLDED SOIL-CEMENT CYLINDERS
ASTM D-1633**

SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-3		FME Lab ID	21-2280	
Soil Description	A-4(0)		Depth/Elev.	1.0 - 3.0 ft.	
Station	43+96		Offset	LT	
Date Sampled	10/01/21	Sampled By:	CG2	Date Received	10/05/21
Date Molded	10/27/21	Date Tested	11/03/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Cement Added to Proctor	9%
Max Dry Density (lb/ft ³)	110.9	Optimum Moisture Content (%)	16.3

TESTING RESULTS

% Cement	Age (Days)	Moisture Content	Height (in.)	Diameter (in.)	Area (in. ²)	Maximum Load (lbf)	Compressive Strength (psi)	Average Compressive Strength (psi)
8%	7	15.8%	4.618	4.001	12.57	4,499	360	330
8%	7	15.8%	4.588	3.996	12.54	3,753	300	
10%	7	16.1%	4.604	3.996	12.54	5,283	420	390
10%	7	15.8%	4.628	4.000	12.57	4,586	365	

ADDITIONAL COMMENTS

Bulk Soil Sample Data (without Cement Added):
 LL=32, PL=NP, PI=NP
 %Passing #200 Sieve = 28.7%
 As-Received Natural Moisture Content = 15.3%

F&ME CONSULTANTS	F&ME Consultants, Inc. 3112 Devine Street, Columbia, SC 29205	<i>Jerry P. Davis</i> Reviewed By	130-04-0212 NCDOT Certification No 11/03/21 Date
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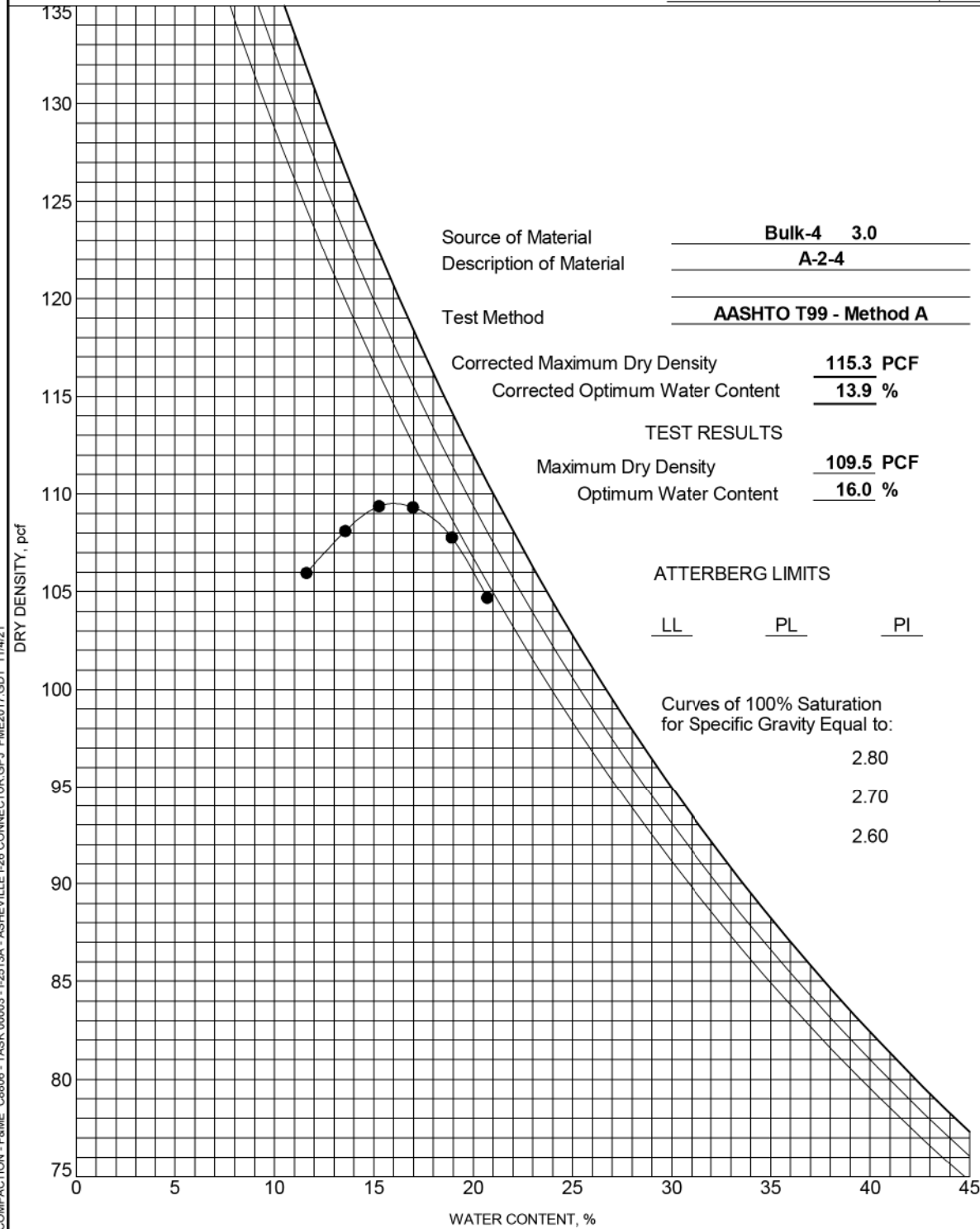


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID C8806.000 - Task 00003 (NCDOT TIP# I-1513A)

PROJECT NAME Asheville I-26 Connector

PROJECT LOCATION Asheville I-26 Connector - Buncombe Co., North Carolina



COMPACTION - F&ME_C8806 - TASK 00003 - I-2513A - ASHEVILLE I-26 CONNECTOR.GPJ_FME2017.GDT_11/4/21

REV 08/2021

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

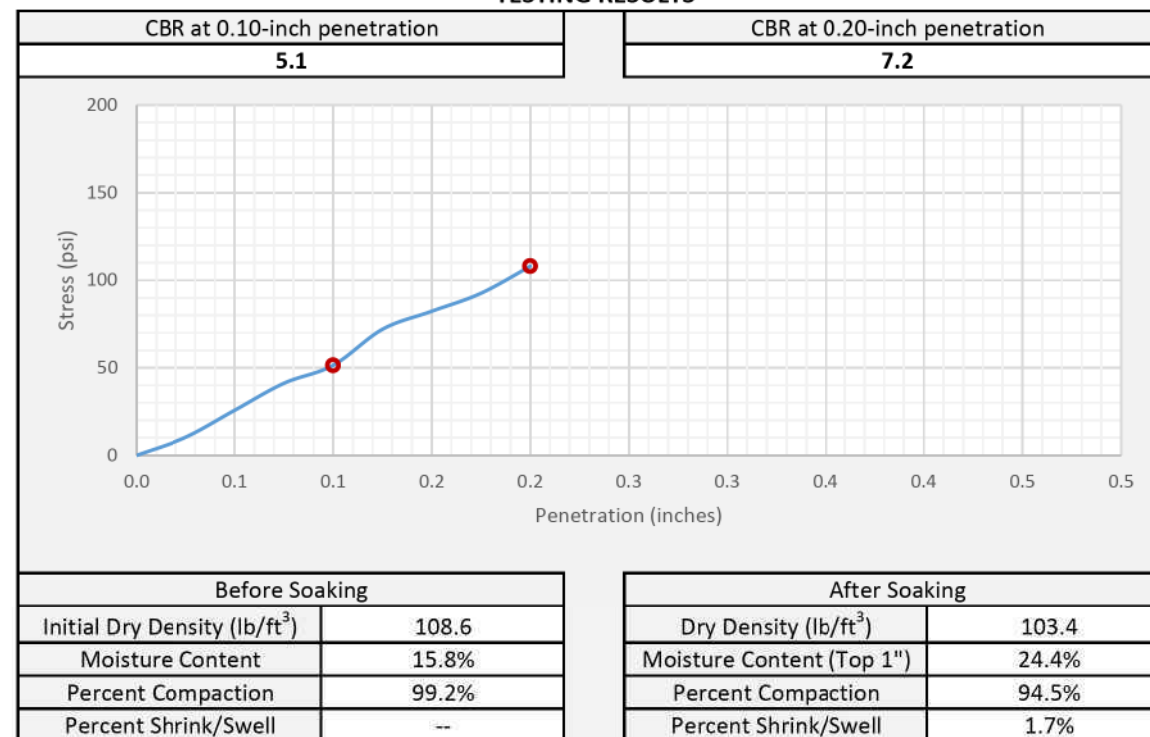
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-4 (Specimen 1)		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	109.5	Optimum Moisture Content (%)	16.0
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=39, PL=NP, PI=NP, %Passing #200 Sieve = 31.6
20+42 - LT



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REV 08/2021

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

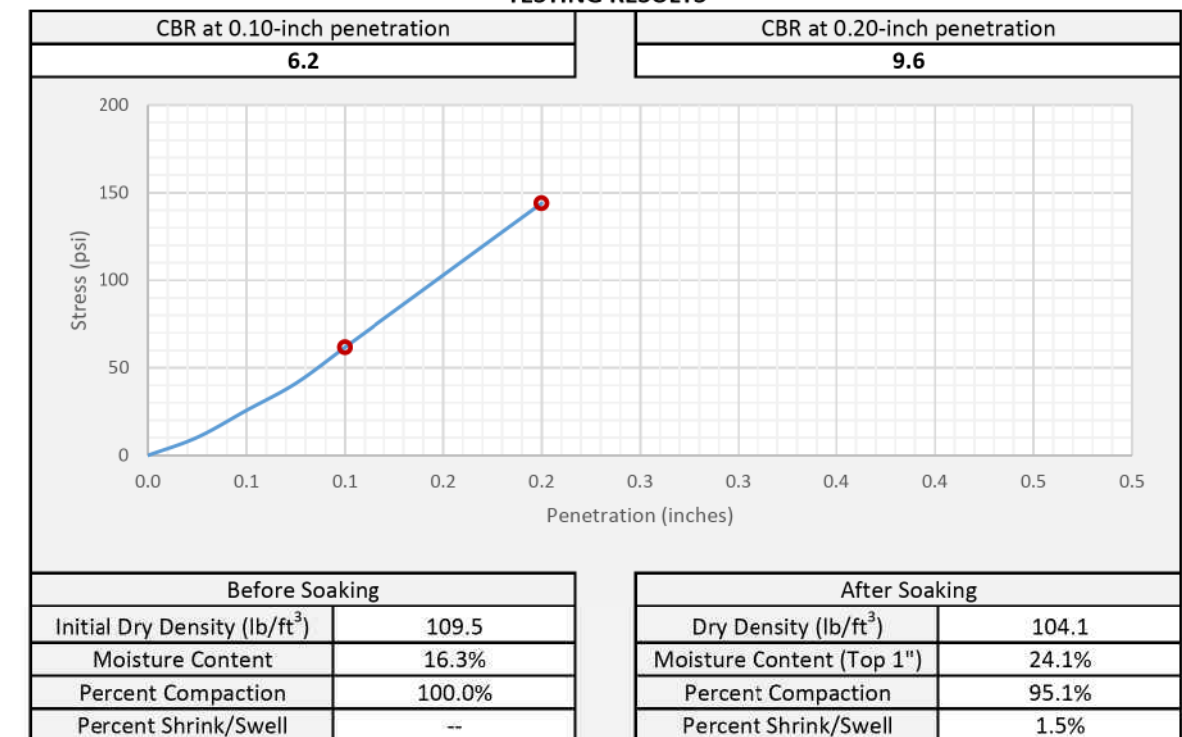
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-4 (Specimen 2)		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	109.5	Optimum Moisture Content (%)	16.0
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=39, PL=NP, PI=NP, %Passing #200 Sieve = 31.6
20+42 - LT

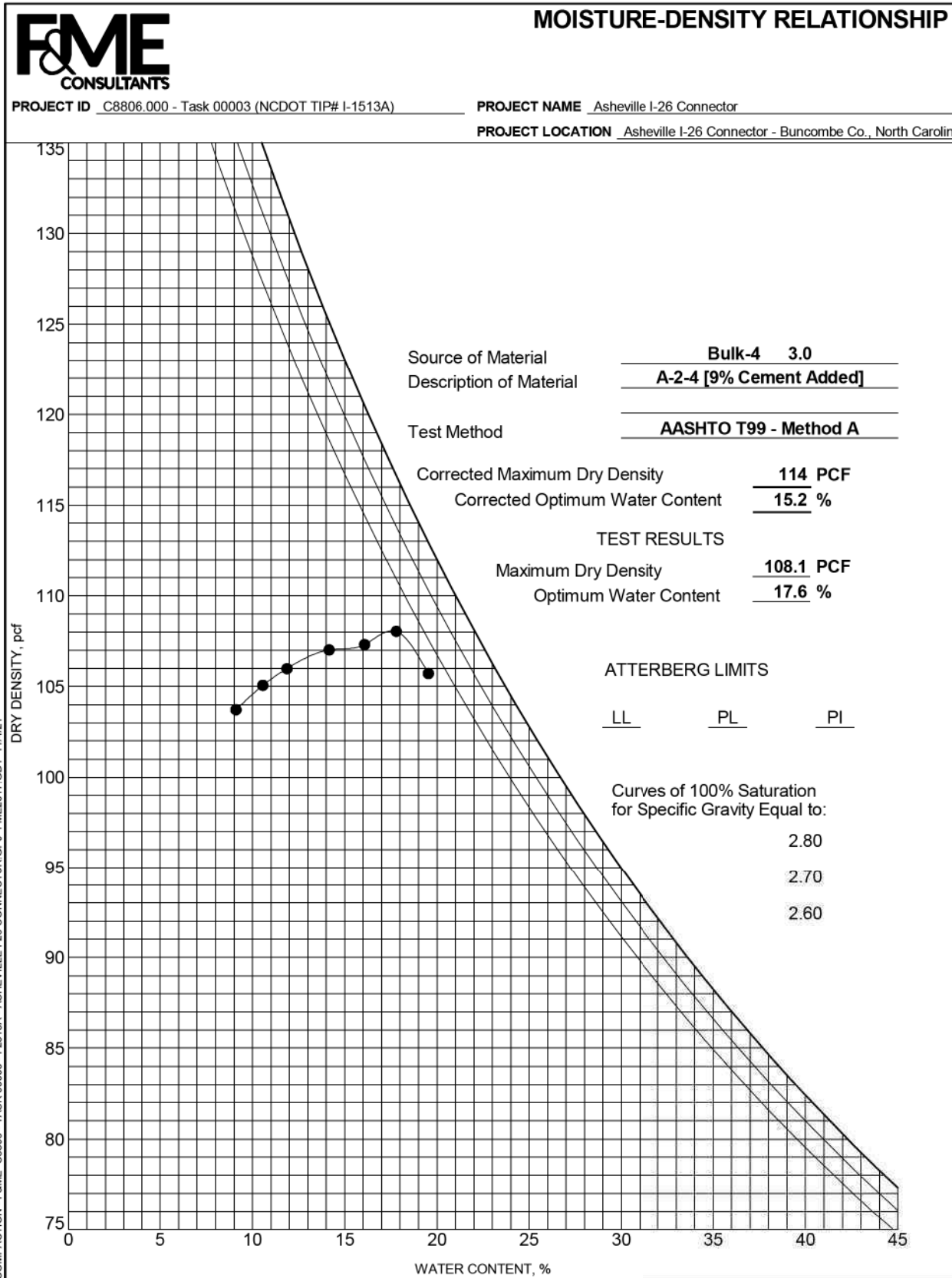


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REV 08/2021

**COMPRESSIVE STRENGTH OF MOLDED SOIL-CEMENT CYLINDERS
ASTM D-1633**

SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-4		FME Lab ID	21-2281	
Soil Description	A-2-4		Depth/Elev.	1.0 - 3.0 ft.	
Station	20+42		Offset	LT	
Date Sampled	10/01/21	Sampled By:	CG2	Date Received	10/05/21
Date Molded	10/27/21	Date Tested	11/03/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Cement Added to Proctor	9%
Max Dry Density (lb/ft ³)	108.1	Optimum Moisture Content (%)	17.6

TESTING RESULTS

% Cement	Age (Days)	Moisture Content	Height (in.)	Diameter (in.)	Area (in. ²)	Maximum Load (lbf)	Compressive Strength (psi)	Average Compressive Strength (psi)
8%	7	17.3%	4.614	4.004	12.59	3,374	270	280
8%	7	17.3%	4.621	4.000	12.57	3,668	290	
10%	7	17.3%	4.623	3.998	12.55	4,073	325	330
10%	7	17.2%	4.637	4.000	12.57	4,196	335	

ADDITIONAL COMMENTS

Bulk Soil Sample Data (without Cement Added):
 LL=39, PL=NP, PI=NP
 %Passing #200 Sieve = 31.6%
 As-Received Natural Moisture Content = 19.2%

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		11/03/21 Date

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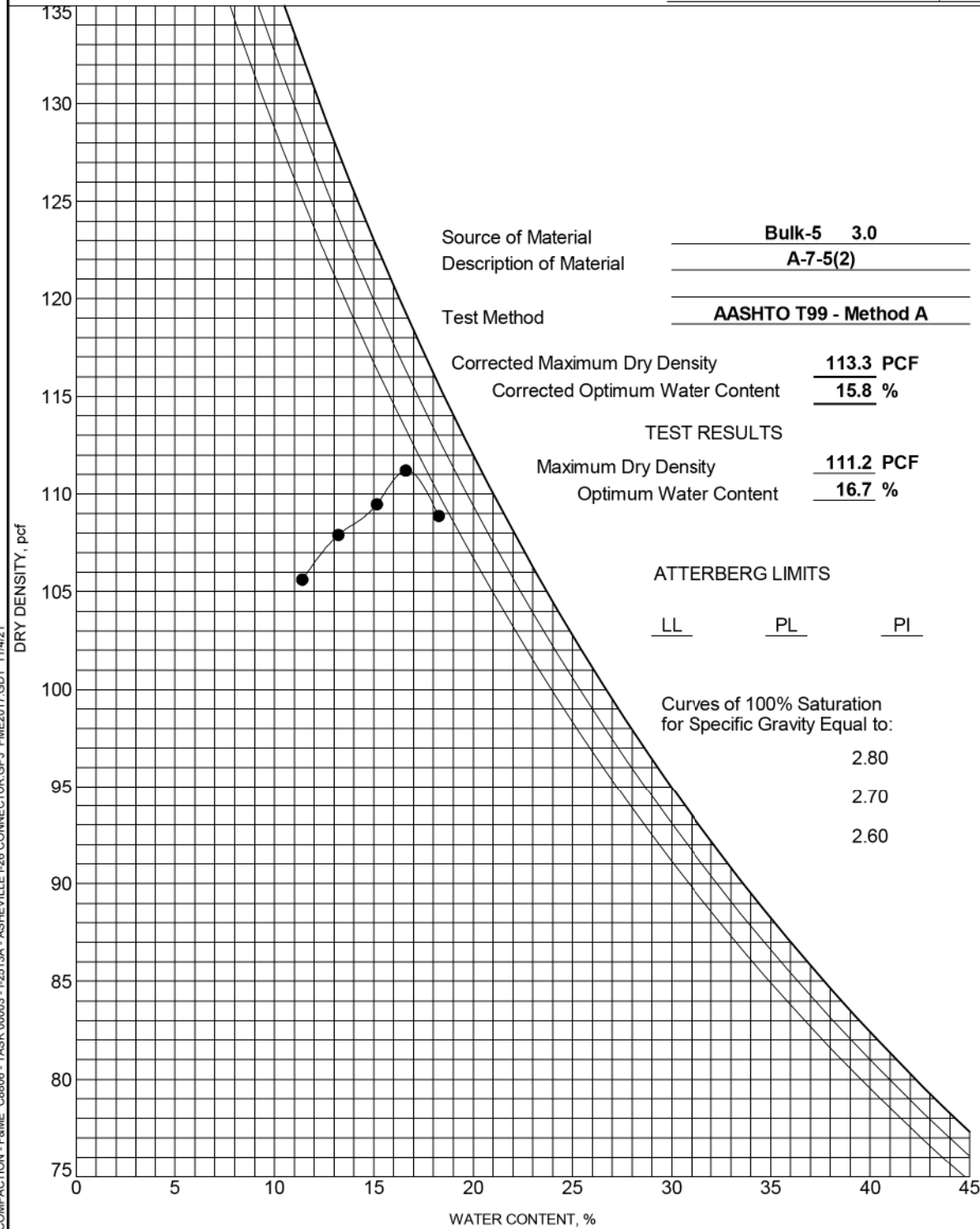


MOISTURE-DENSITY RELATIONSHIP

PROJECT ID C8806.000 - Task 00003 (NCDOT TIP# I-1513A)

PROJECT NAME Asheville I-26 Connector

PROJECT LOCATION Asheville I-26 Connector - Buncombe Co., North Carolina



COMPACTION - F&ME_C8806 - TASK 00003 - I-2513A - ASHEVILLE I-26 CONNECTOR.GPJ_FME2017.GDT_11/4/21

REV 08/2021

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

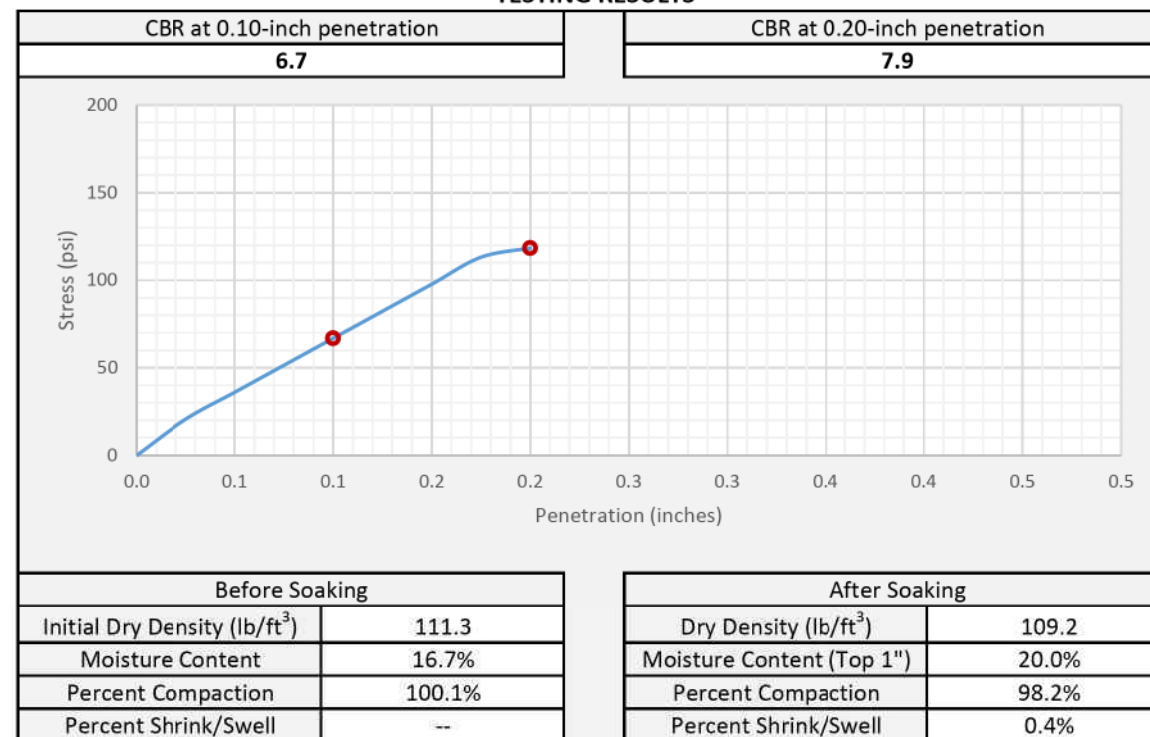
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-5 (Specimen 1)		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	111.2	Optimum Moisture Content (%)	16.7
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=41, PL=30, PI=11, %Passing #200 Sieve = 41.5
52+17 - LT



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Jerry P. Davis
Reviewed By

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

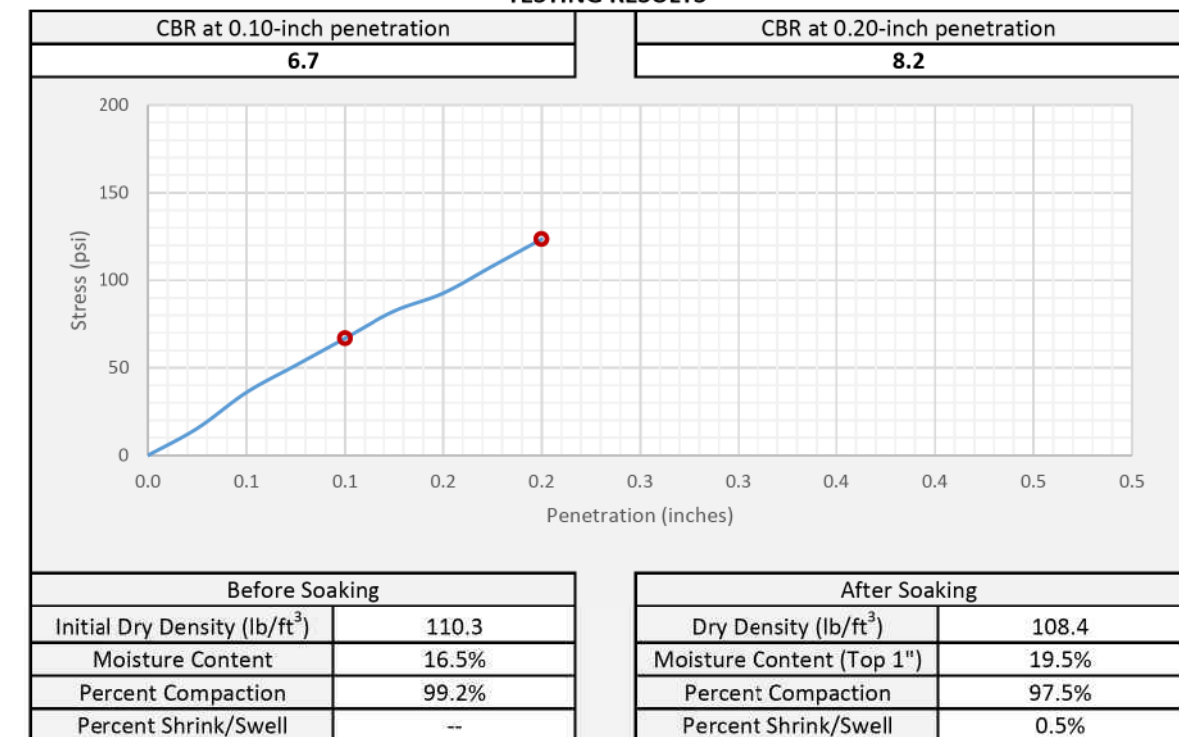
SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-5 (Specimen 2)		FME Lab ID	21-2278	
Soil Description	A-2-4		Depth/Elev.	1.0' - 3.0'	
Date Sampled	10/1/21	Sampled By:	CG2	Date Received	10/05/21
Date Test Began	10/15/21	Date Completed	10/19/21	Tested By	M. Johnson

MOLDING CHARACTERISTICS

Method	AASHTO T99 - Method A	% Retained on 3/4" Sieve	0%
Max Dry Density (lb/ft ³)	111.2	Optimum Moisture Content (%)	16.7
Soak Time (hr)	96	Surcharge Weight (lb)	10.0

TESTING RESULTS



ADDITIONAL COMMENTS

LL=41, PL=30, PI=11, %Passing #200 Sieve = 41.5
52+17 - LT



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REV 08/2021

COMPRESSIVE STRENGTH OF MOLDED SOIL-LIME CYLINDERS
ASTM D-1633

SAMPLE INFORMATION

Project Name	Asheville I-26 Connector		NCDOT STIP #	I-2513A	
Sample Location	Bulk-5		FME Lab ID	21-2282	
Soil Description	A-7-5(2)		Depth/Elev.	1.0 - 3.0 ft.	
Station	52+17		Offset	LT	
Date Sampled	10/01/21	Sampled By:	CG2	Date Received	10/05/21
Date Molded	10/27/21	Date Tested	11/03/21	Tested By	M. Johnson


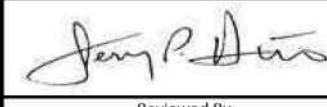
MOLDING CHARACTERISTICS

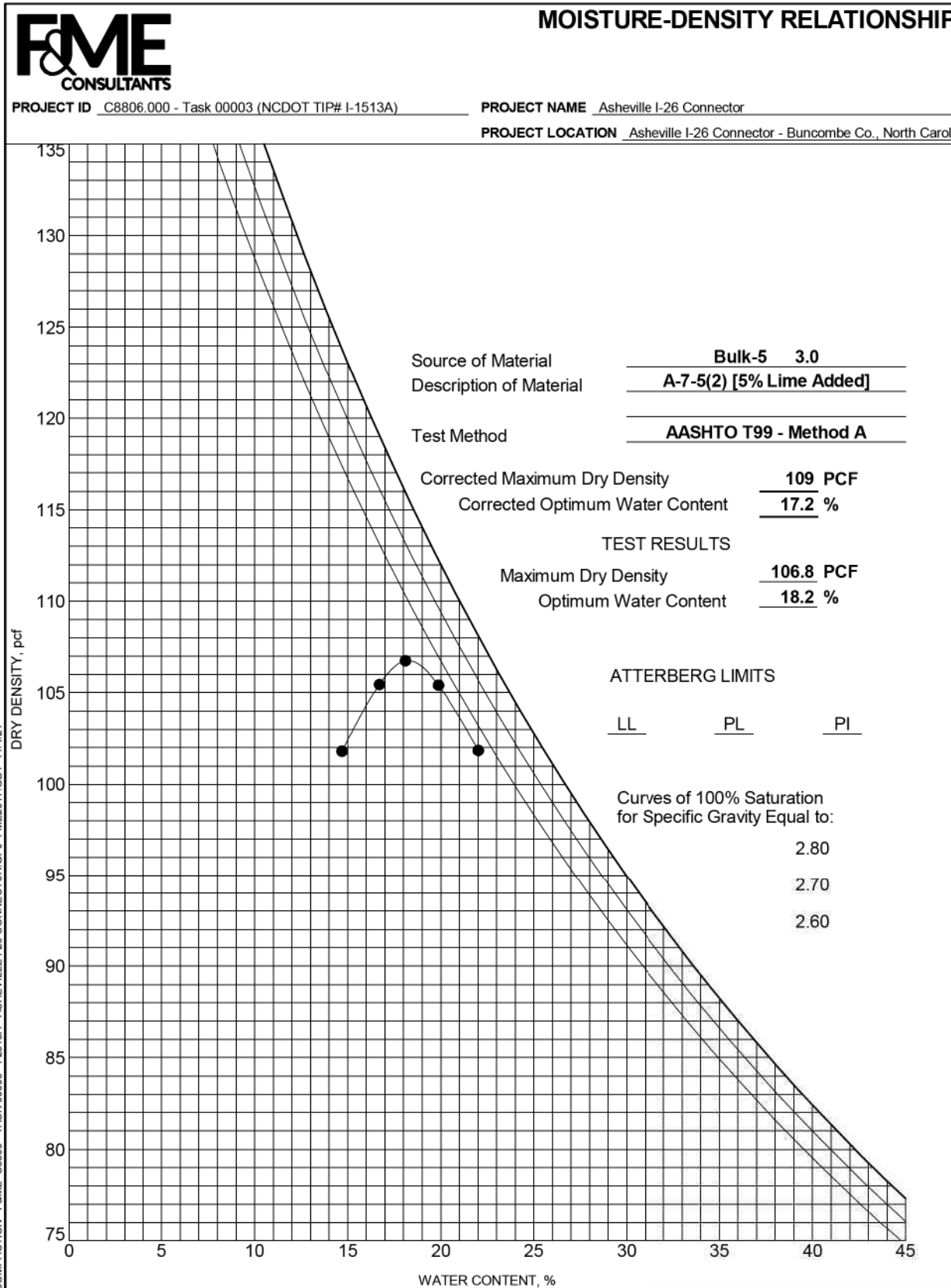
Method	AASHTO T99 - Method A	% Lime Added to Proctor	5%
Max Dry Density (lb/ft ³)	106.8	Optimum Moisture Content (%)	17.2

TESTING RESULTS

% Lime	Age (Days)	Moisture Content	Height (in.)	Diameter (in.)	Area (in. ²)	Maximum Load (lbf)	Compressive Strength (psi)	Average Compressive Strength (psi)
4%	7	18.0%	4.626	3.990	12.50	1066	85	85
4%	7	17.5%	4.605	3.997	12.55	1088	85	
6%	7	18.2%	4.63	3.996	12.54	1069	85	85
6%	7	17.9%	4.605	3.991	12.51	1076	85	

ADDITIONAL COMMENTS

Bulk Soil Sample Data (without Lime Added):	
LL=41, PL=30, PI=11	
%Passing #200 Sieve = 41.5%	
As-Received Natural Moisture Content = 17.3%	
 F&ME Consultants, Inc. 3112 Devine Street, Columbia, SC 29205	
Reviewed By 	130-04-0212 NCDOT Certification No 11/03/21 Date



COMPACTION - F&ME_C8806 - TASK 00003 - I-2513A - ASHEVILLE I-26 CONNECTOR.GPJ_FME2017.GDT_11/4/21

REFERENCE: I-2513AA/AB

PROJECT: 34165

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION**

PHOTOGRAPHS



#1: EXAMPLE DRAINAGE SAND PHOTO - C-94



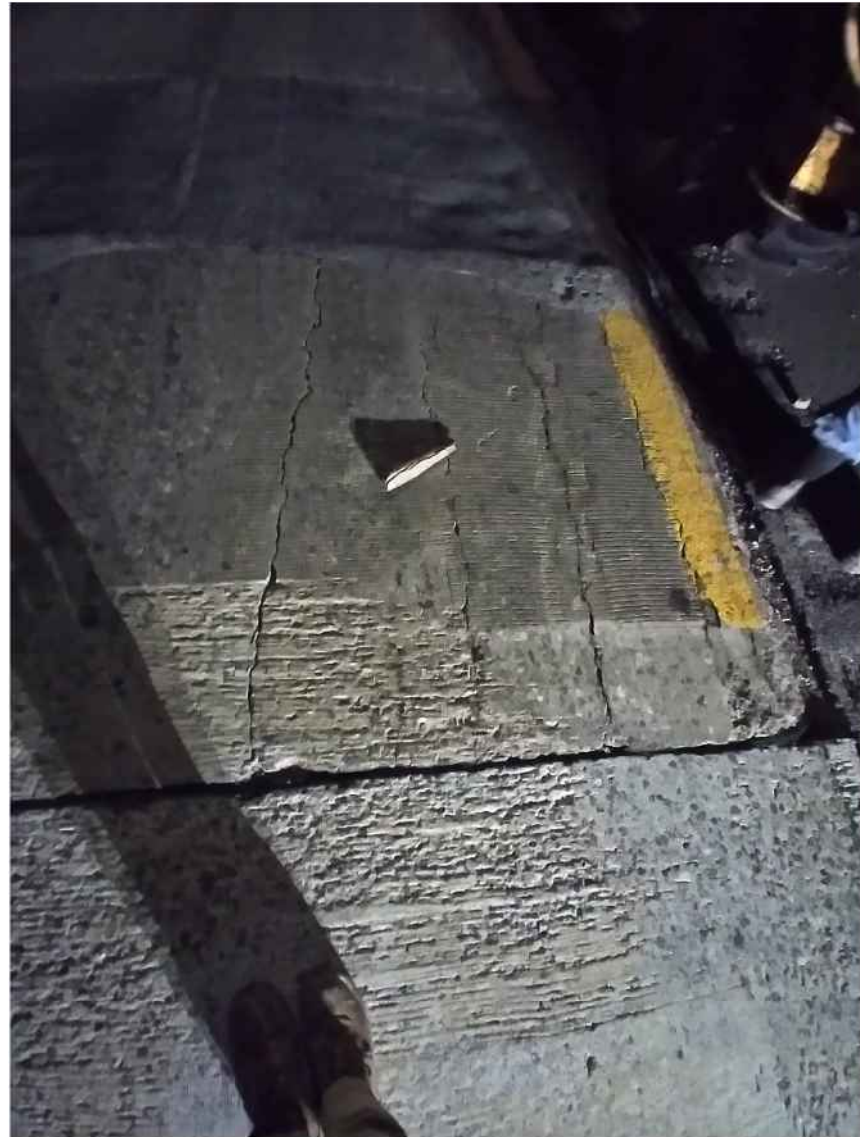
#3: EXAMPLE STBC - C-13



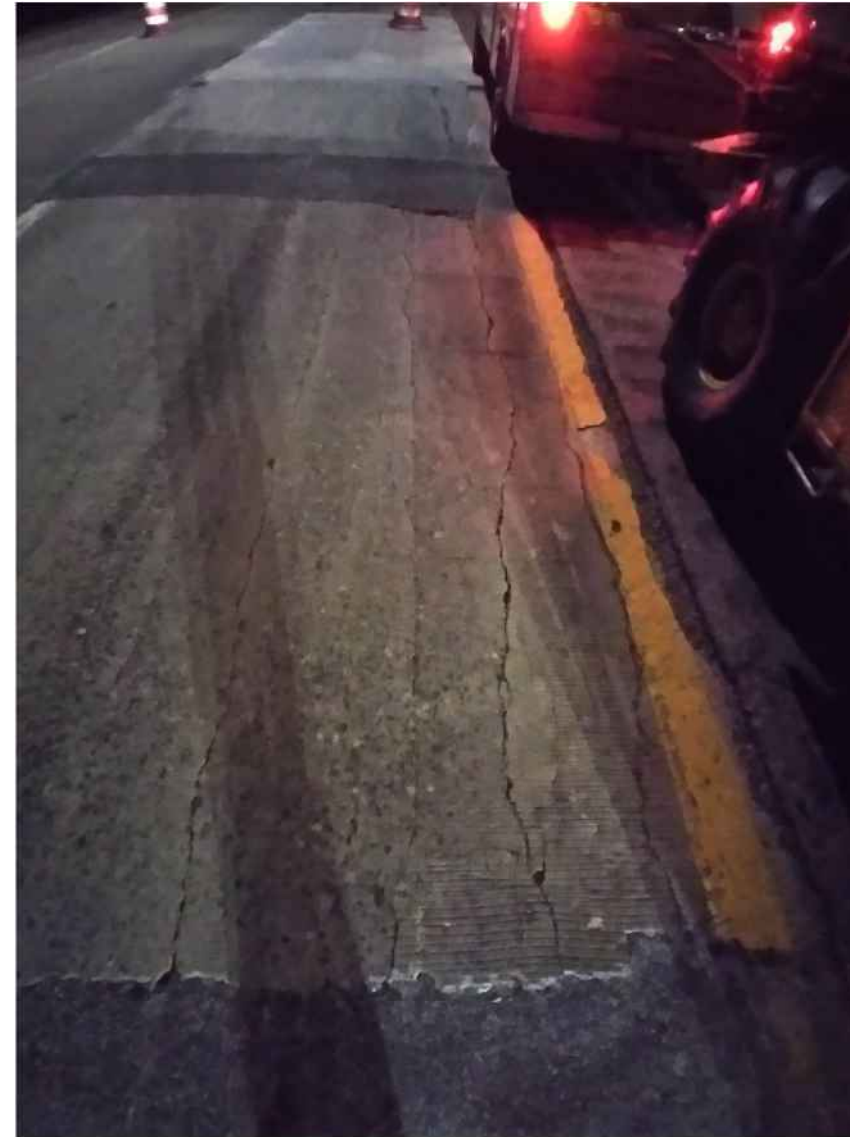
#2: EXAMPLE STBC - C-28



#4: EXAMPLE ABC - C-89



#5: CONCRETE DISTRESS BETWEEN
PATCHES I-40 WB ISL



#6: CONCRETE DISTRESS BETWEEN
PATCHES I-40 WB ISL



#7: CONCRETE DISTRESS – VERY FINE SPIDER
WEB CRACKING AND TRANSVERSE JOINT
SPALLING I-40 EB OSML



#8: SPALLING CONCRETE/POTHOLE AT TRANSVERSE JOINT, ATTEMPTED PATCH, TYPICAL



#9: SPALLING CONCRETE/POTHOLE AT TRANSVERSE JOINT, TYPICAL



#10: SPALLING CONCRETE/POTHOLE AT LONGITUDINAL JOINT, TYPICAL



#11: REFLECTIVE CRACKING AT LONGITUDINAL JOINT, SEVERE JOINT DEGRADATION, PATCHED, TYPICAL



#12: REFLECTIVE CRACKING AT LONGITUDINAL JOINT, SEVERE JOINT DEGRADATION, TYPICAL



#13: REFLECTIVE CRACKING AT LONGITUDINAL AND TRANSVERSE JOINTS, SEVERE DEGRADATION OF OVERLAY, TYPICAL

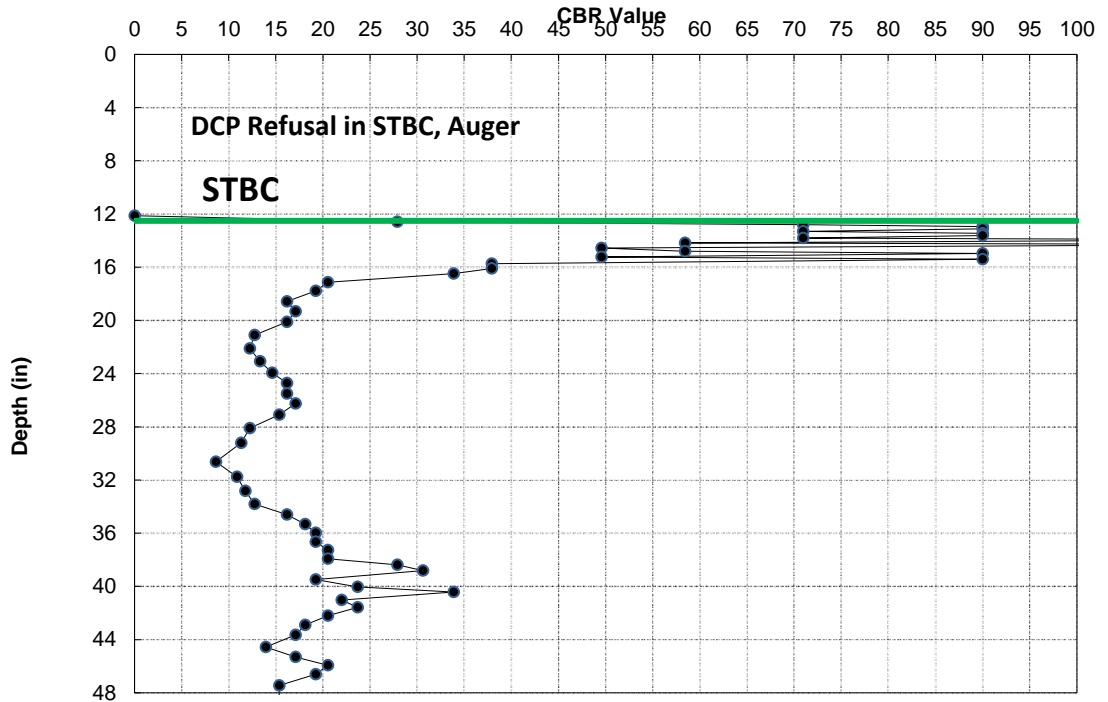
**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

C-28 Y Sta. 19+19 EB OSS 4.1 FT RT FW

Datum = STBC
RAW
Cut
10/11/21

Interval	
12.1 to 12.6	
# of Values	1
Avg CBR	38.4
Wghtd Avg.	32.1
Max CBR	100+
Min CBR	19.2

Interval	
12.6 to 51.8	
# of Values	63
Avg CBR	33.5
Wghtd Avg.	20.8
Max CBR	100+
Min CBR	8.6



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

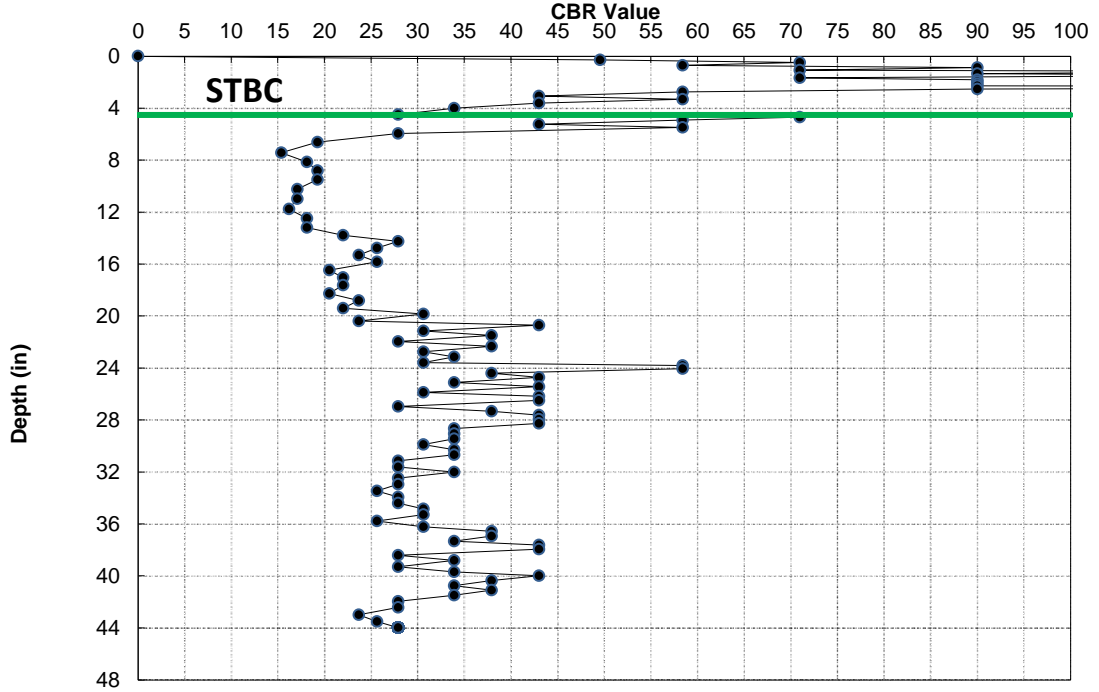
FILE	I2513AA_AB DCP Graphs
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C-29 Y Sta. 23+92 EB OSS 3.7 FT RT FW

Datum = STBC
RAW
Cut
10/11/21

Interval	
0.0	to 4.5
# of Values	21
Avg CBR	78.5
Wghtd Avg.	65.0
Max CBR	100+
Min CBR	27.9

Interval	
4.5	to 44.0
# of Values	87
Avg CBR	32.0
Wghtd Avg.	29.1
Max CBR	70.9
Min CBR	15.4

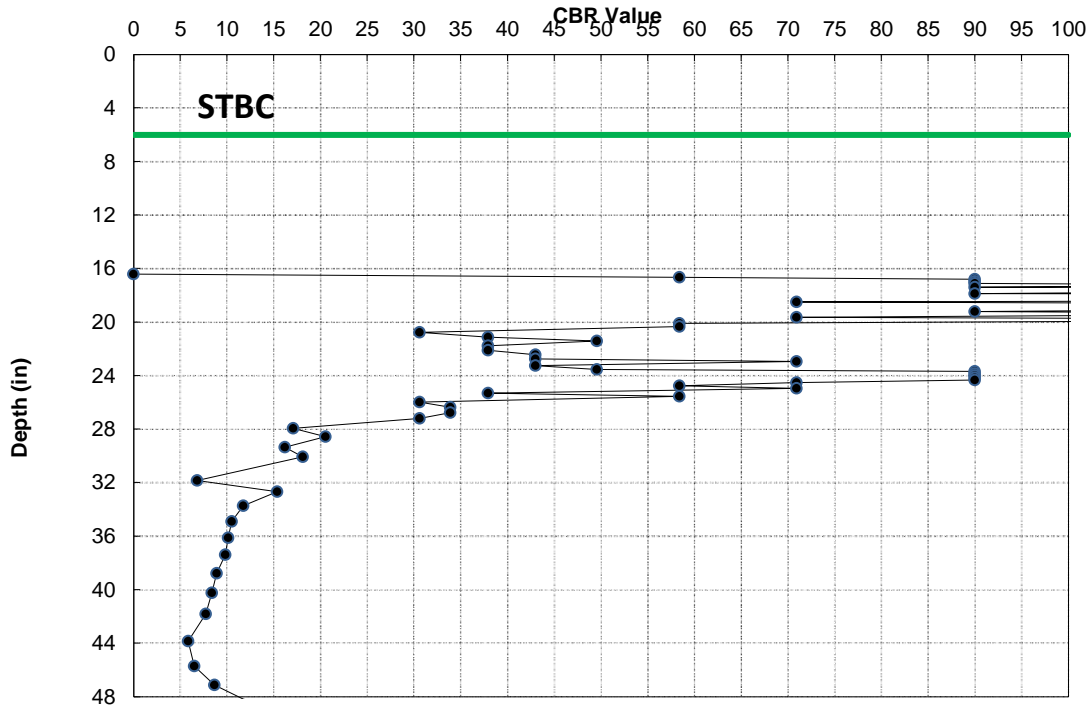


C-30 Y Sta. 30+95 EB ISS 2.0 FT LT FY

Datum = STBC
RAW
Cut
10/11/2021

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

Interval	
16.4	to 53.1
# of Values	76
Avg CBR	66.6
Wghtd Avg.	27.3
Max CBR	100+
Min CBR	5.8



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

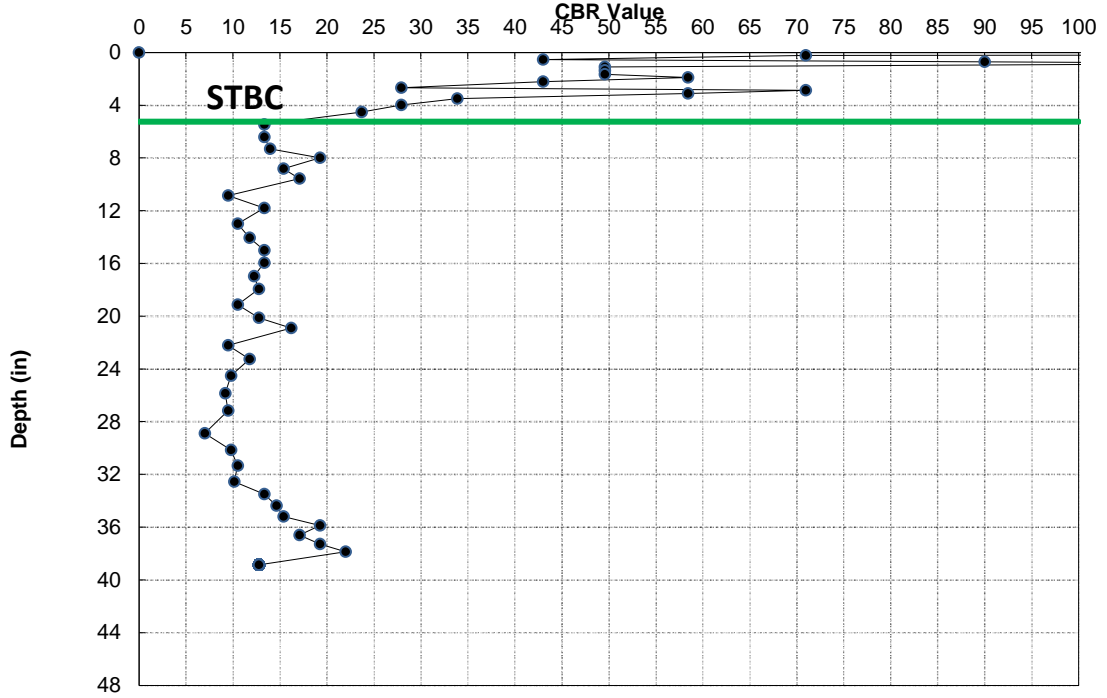
FILE	I2513AA_AB DCP Graphs
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C-31 Y Sta. 30+95 EB ISL 5.6 FT RT FY

Datum = STBC
RAW
Cut
10/11/21

Interval 0.0 to 5.5	
# of Values	17
Avg CBR	72.2
Wghtd Avg.	42.0
Max CBR	100+
Min CBR	13.3

Interval 5.5 to 38.9	
# of Values	33
Avg CBR	13.2
Wghtd Avg.	12.4
Max CBR	22.0
Min CBR	7.0

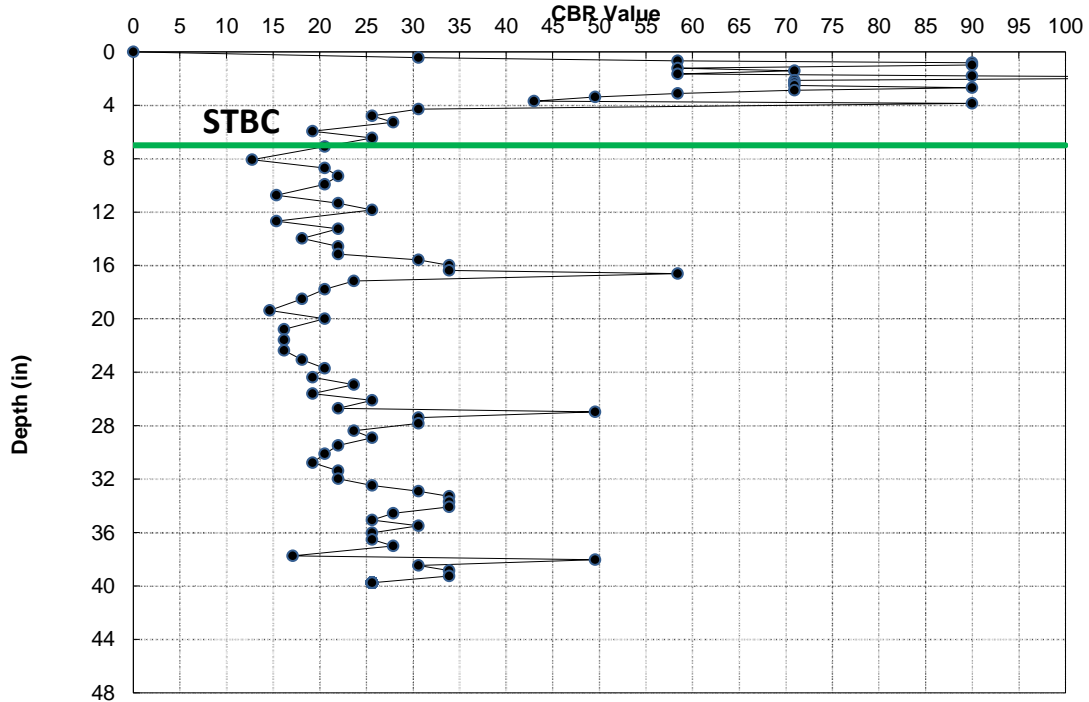


C-32 Y Sta. 30+94 EB MID-LANE 19.6 FT LT FW

Datum = STBC
RAW
Cut
10/11/21

Interval 0.0 to 7.1	
# of Values	24
Avg CBR	59.7
Wghtd Avg.	46.0
Max CBR	100+
Min CBR	19.2

Interval 7.1 to 39.8	
# of Values	58
Avg CBR	25.3
Wghtd Avg.	23.1
Max CBR	58.4
Min CBR	12.8



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs
------	-----------------------

C-33 Y Sta. 30+94 EB OSL 6.6 FT LT FW

Datum = STBC

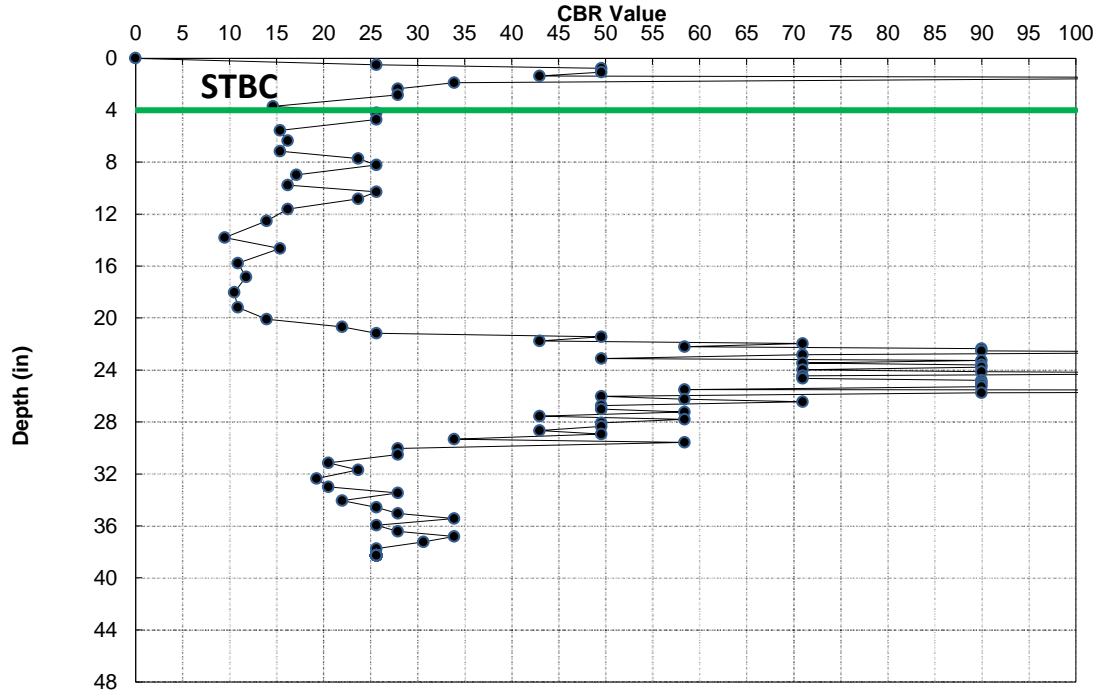
RAW

Cut

10/11/21

Interval	
0.0	to 4.2
# of Values	10
Avg CBR	42.0
Wghtd Avg.	31.5
Max CBR	100+
Min CBR	14.6

Interval	
4.2	to 38.3
# of Values	77
Avg CBR	47.3
Wghtd Avg.	29.9
Max CBR	100+
Min CBR	9.5



C-34 Y Sta. 31+09 EB MERGE LANE 4.0 FT LT FW

Datum = STBC

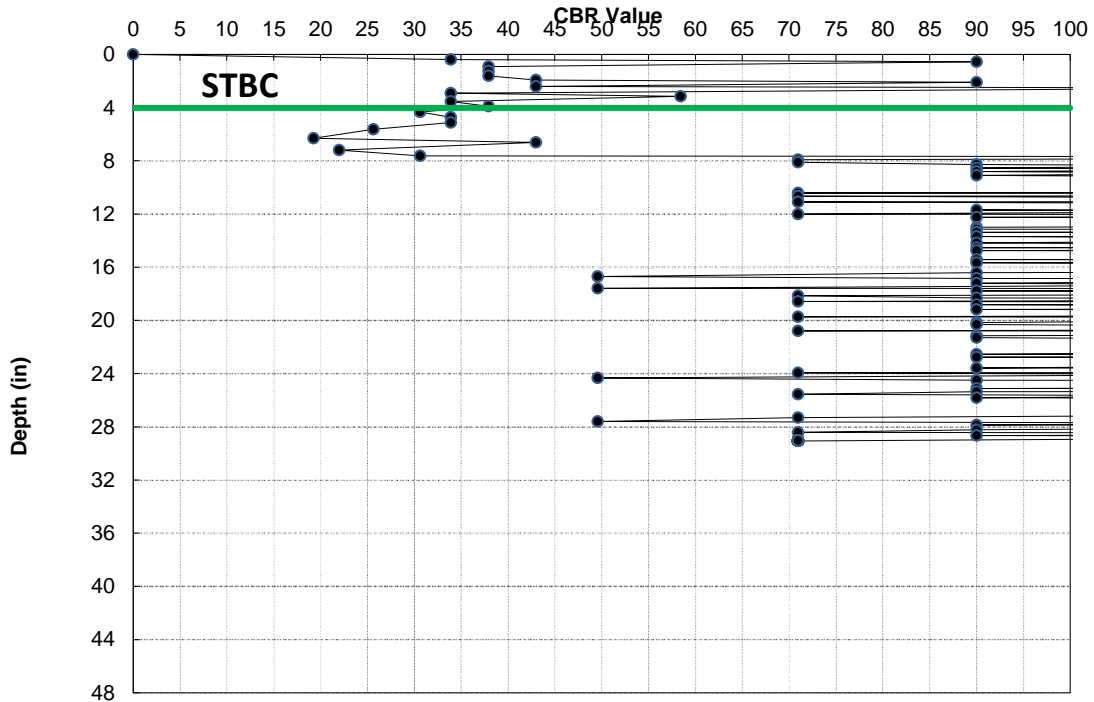
RAW

Cut

10/11/21

Interval	
0.0	to 3.9
# of Values	13
Avg CBR	53.8
Wghtd Avg.	45.3
Max CBR	100+
Min CBR	33.9

Interval	
3.9	to 29.1
# of Values	197
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	19.2



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

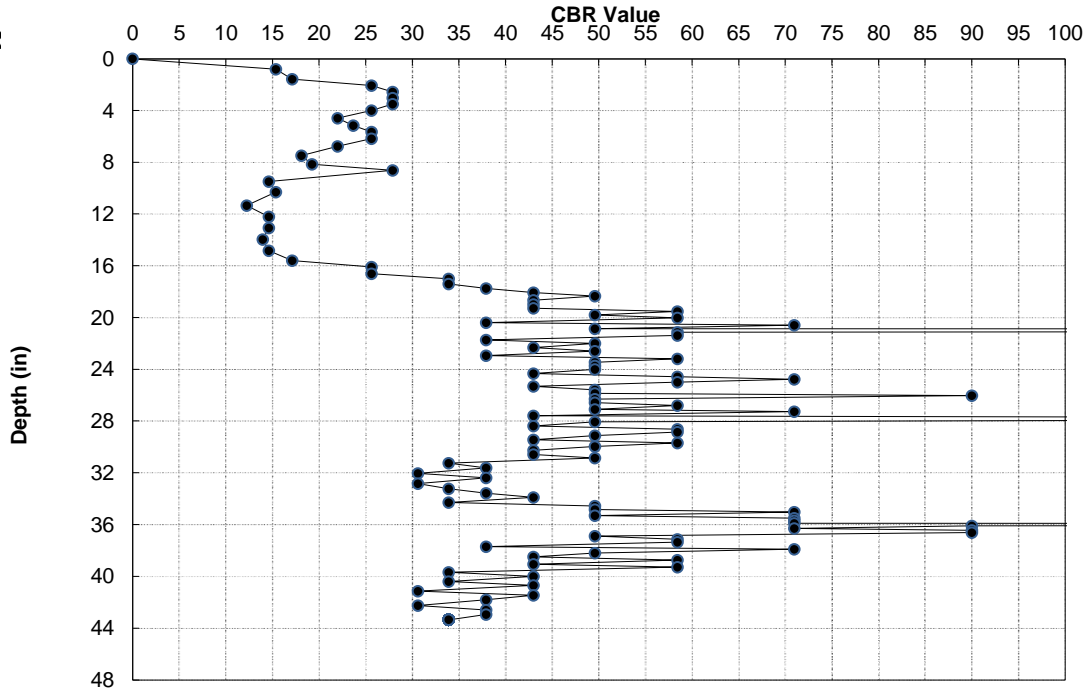
FILE	I2513AA_AB DCP Graphs
------	-----------------------

C-35 Y Sta. 31+09 EB OSS 6.8 FT RT FW **15**

Datum = SHOULDER DR
RAW
Cut
10/11/21

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

Interval 0.0 to 43.3	
# of Values	120
Avg CBR	51.4
Wghtd Avg.	36.8
Max CBR	100+
Min CBR	12.2

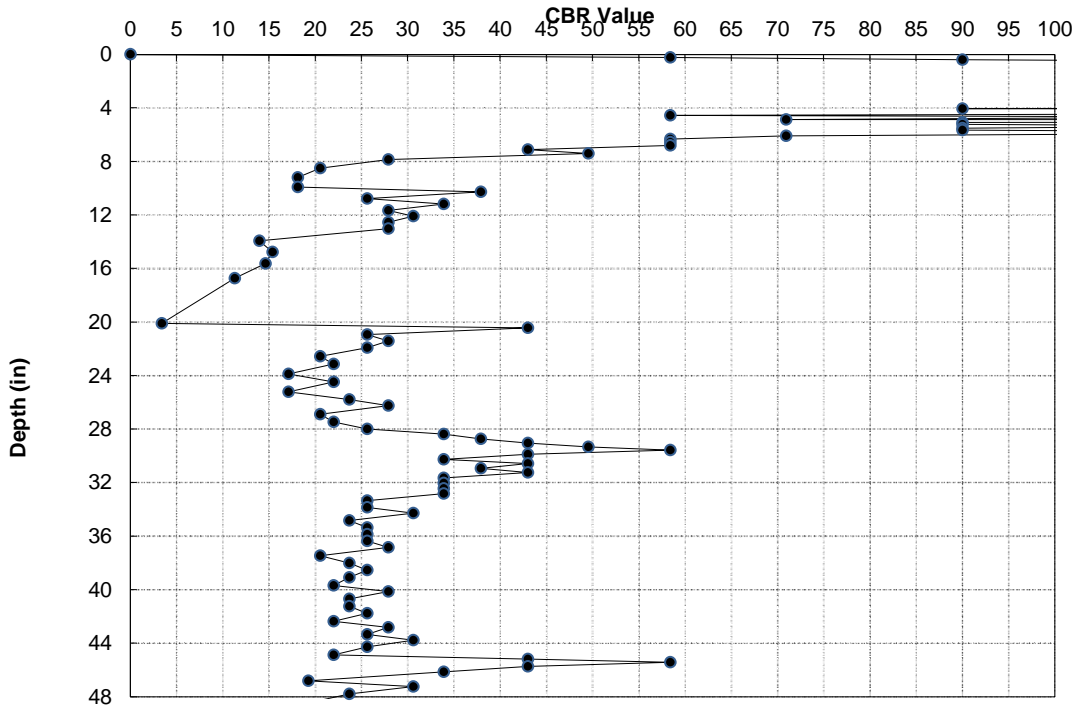


C-36 Y5RPC Sta. 15+80 EB RAMP OSS1 **16**

Datum = SHOULDER DF
RAW
Fill
10/11/21

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

Interval 0.0 to 54.5	
# of Values	162
Avg CBR	100+
Wghtd Avg.	40.0
Max CBR	100+
Min CBR	3.4



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

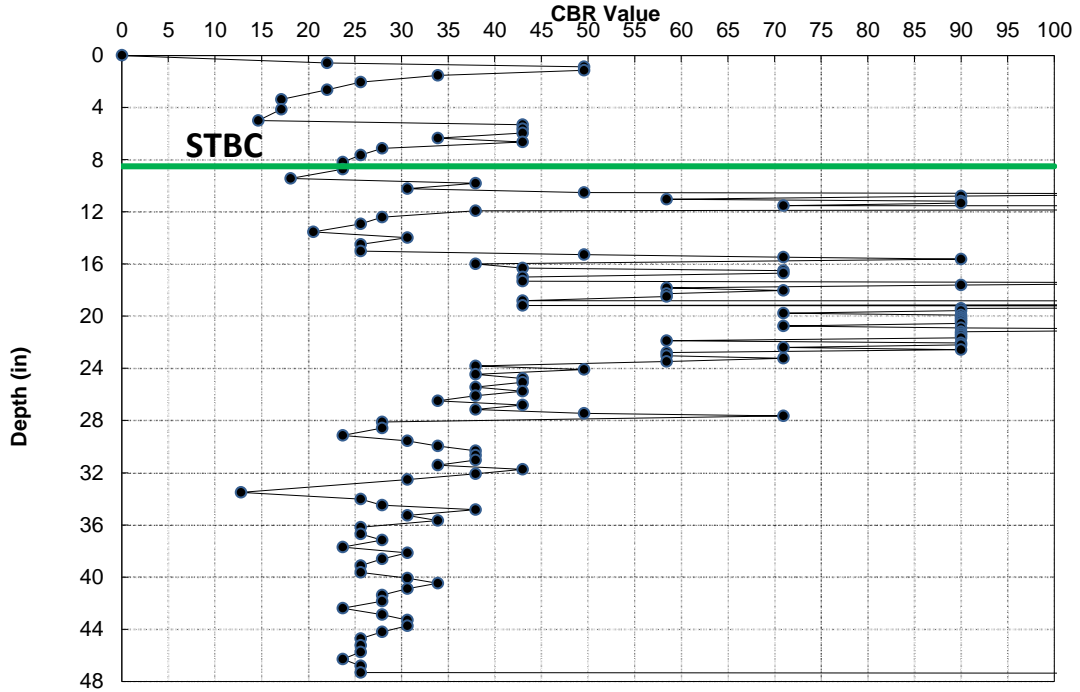
FILE	I2513AA_AB DCP Graphs
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C-37 Y Sta. 37+02 EB OSS 8.5 FT RT FW

Datum = STBC
RAW
Fill
10/11/21

Interval	
0.0	to 8.7
# of Values	18
Avg CBR	31.0
Wghtd Avg.	27.1
Max CBR	49.6
Min CBR	14.6

Interval	
8.7	to 47.4
# of Values	117
Avg CBR	58.7
Wghtd Avg.	40.8
Max CBR	100+
Min CBR	12.8

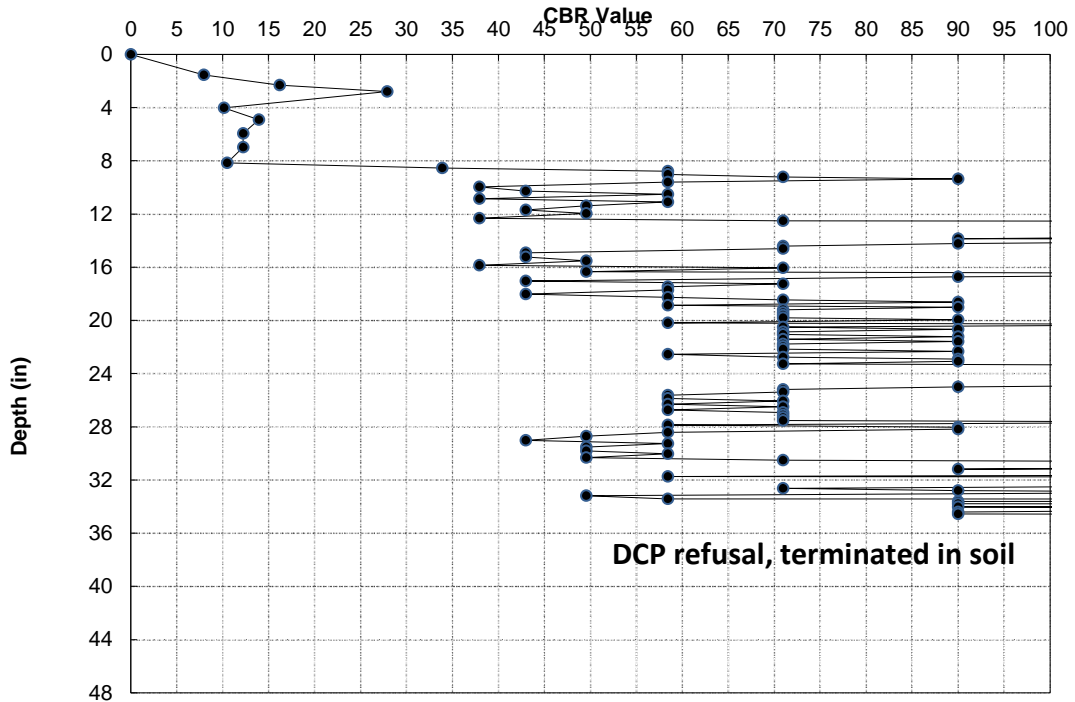


C-38 Y Sta. 43+34 EB OSL 3.7 FT LT FW

Datum = SG
RAW
Fill
10/11/21

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

Interval	
0.0	to 35.8
# of Values	227
Avg CBR	100+
Wghtd Avg.	89.8
Max CBR	100+
Min CBR	7.9

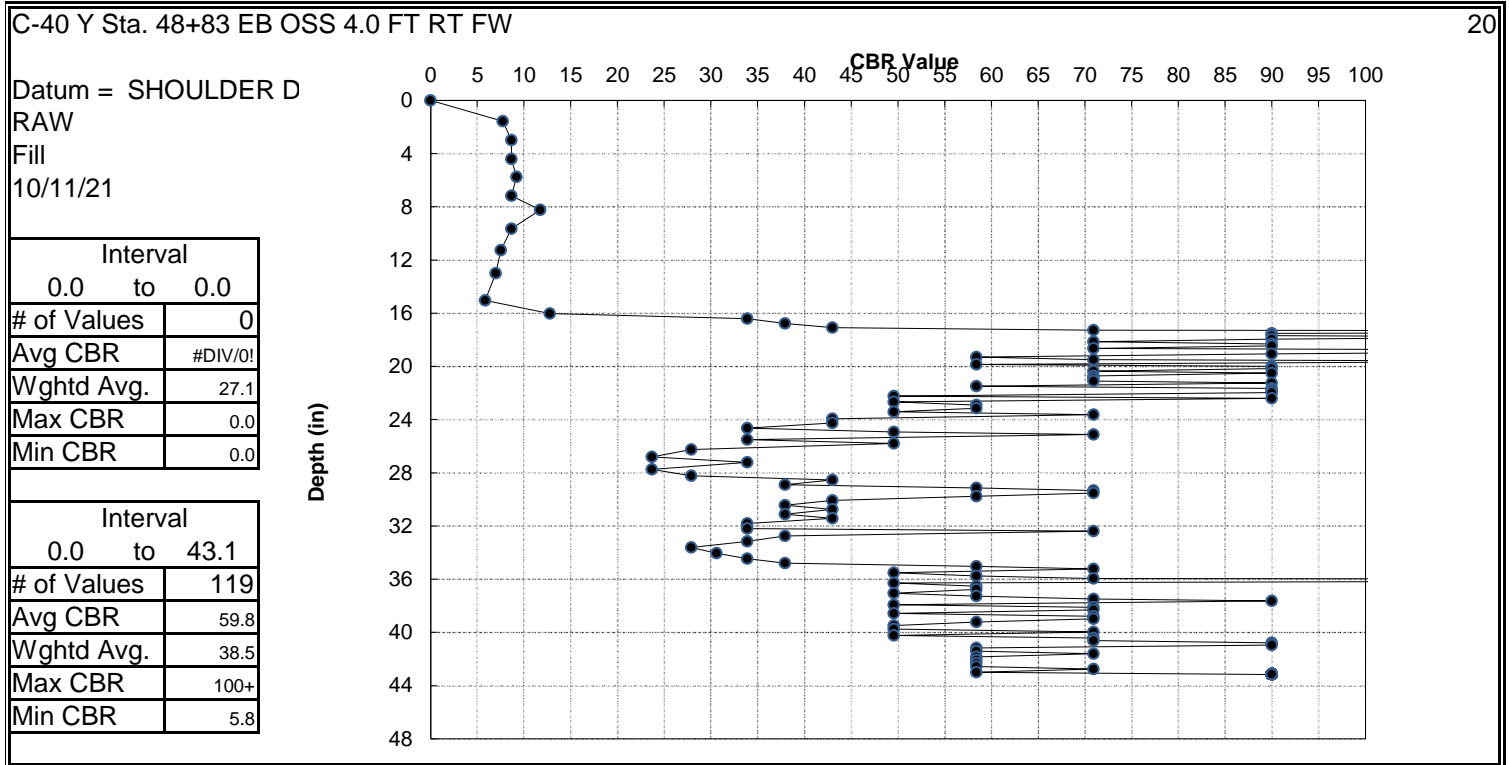
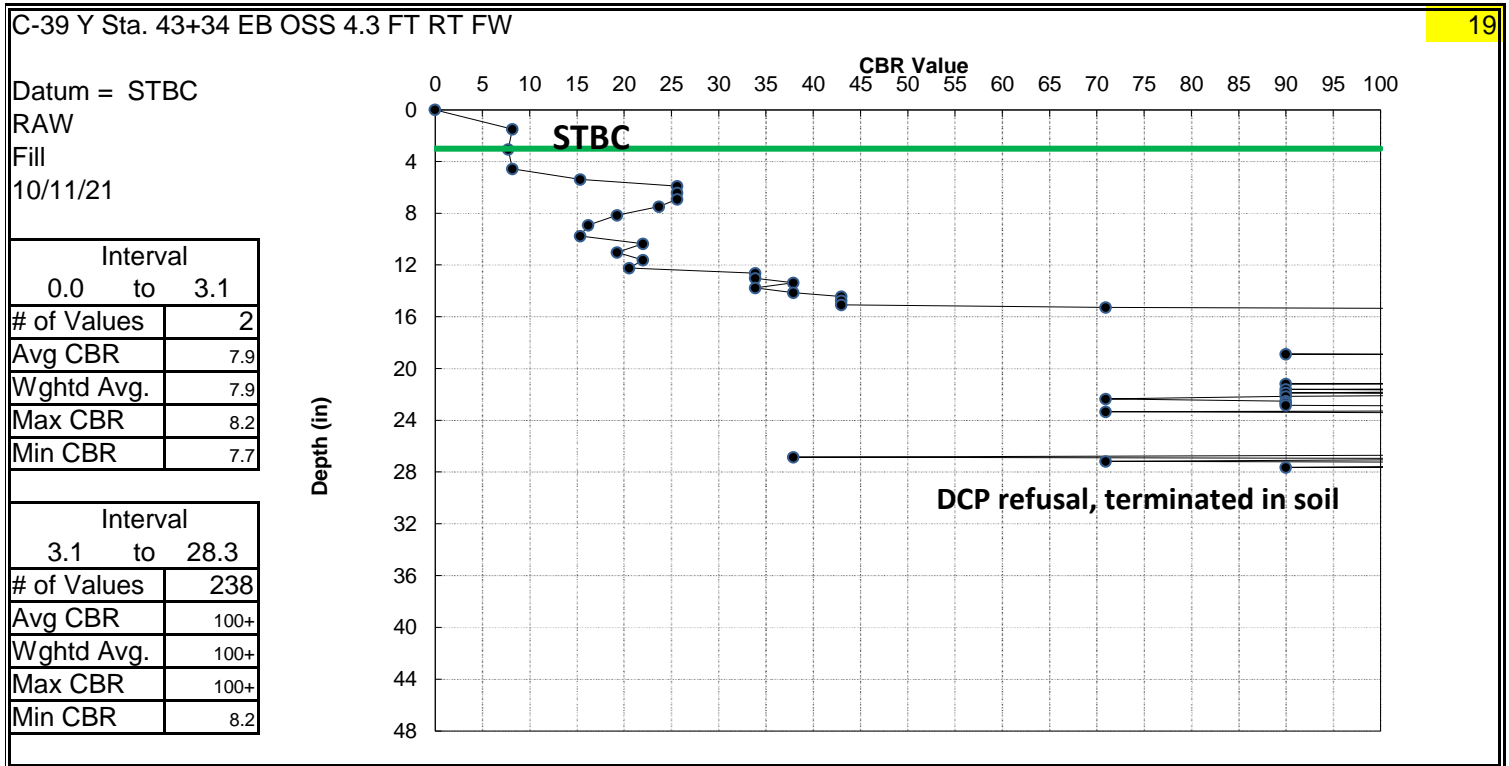


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs
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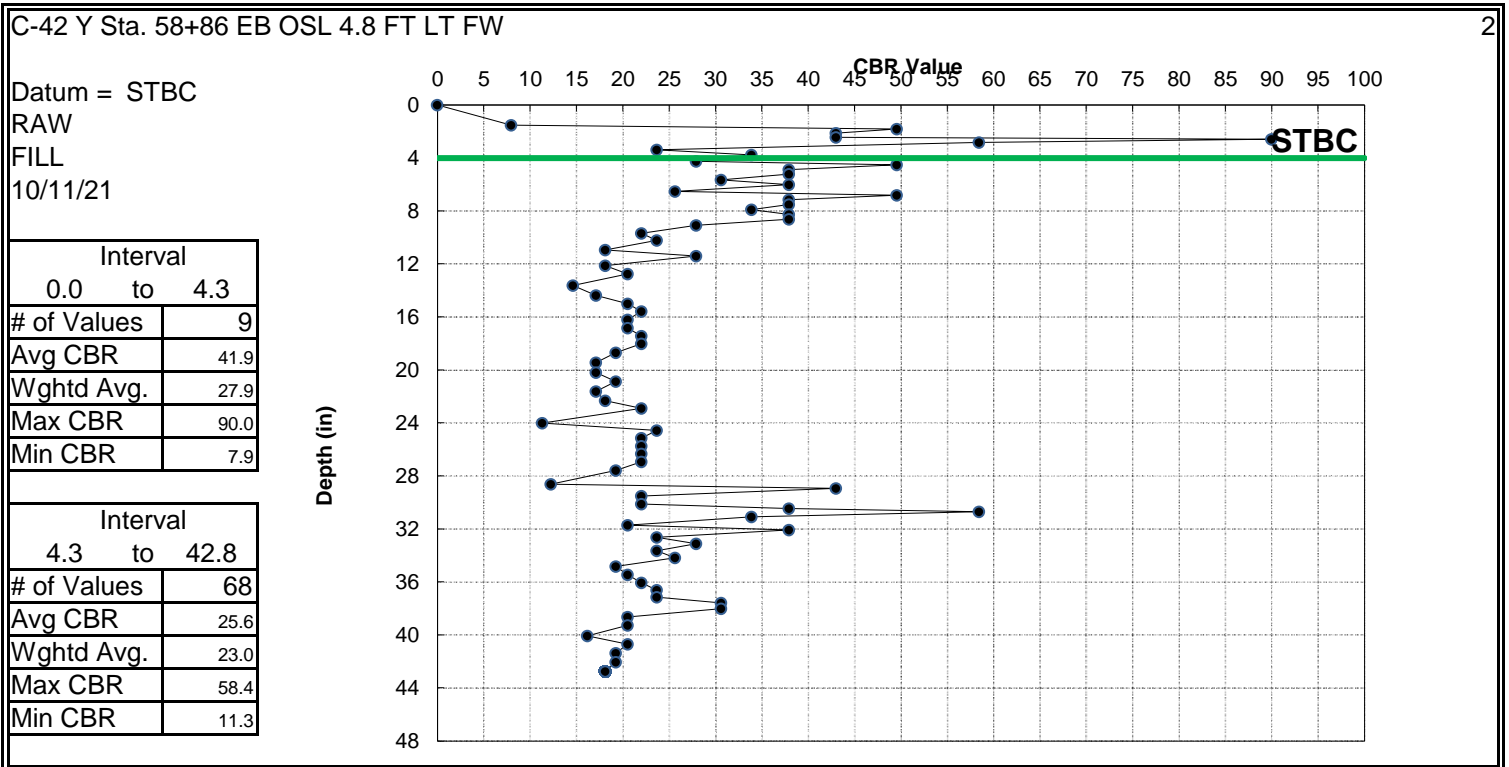
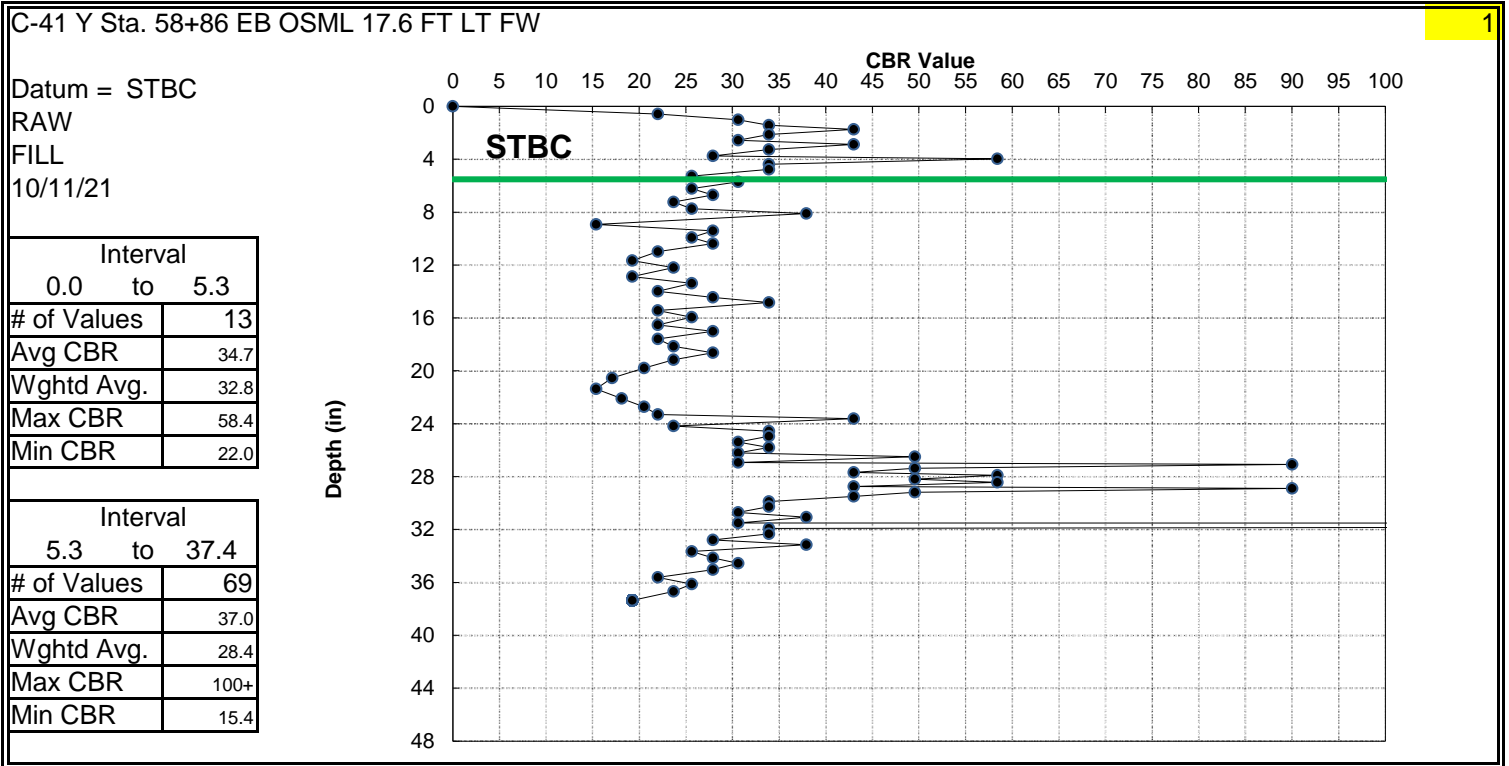


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 3
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**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

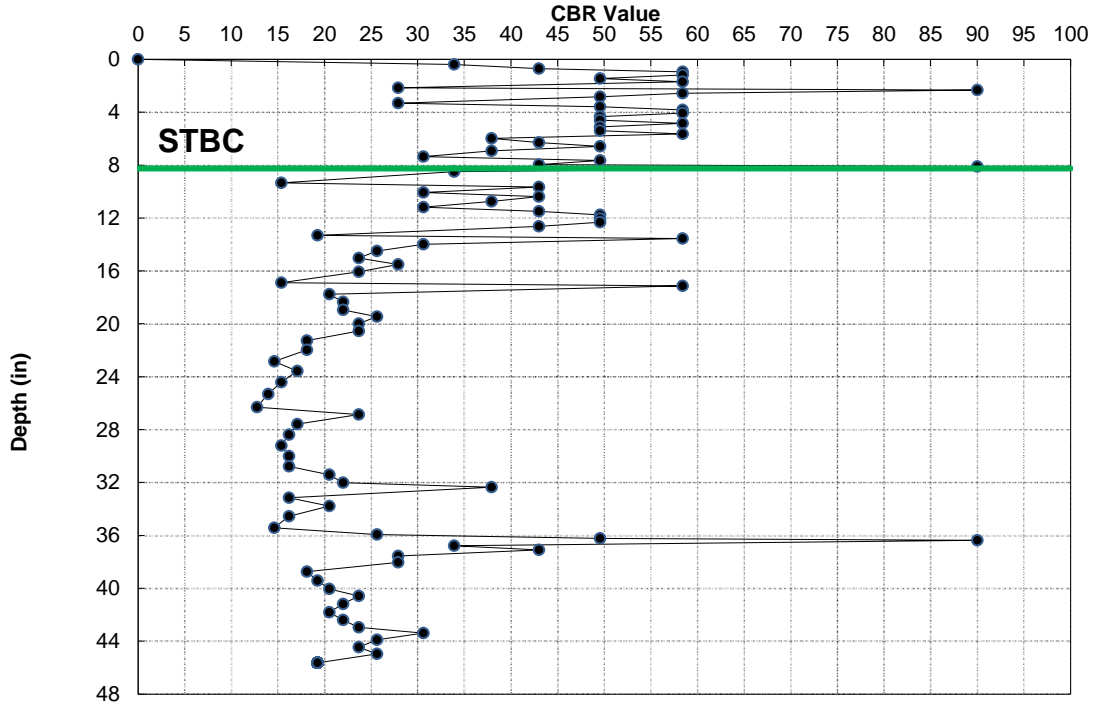
FILE	I2513AA_AB DCP Graphs 3
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C-43 Y Sta. 58+86 EB OSS 3.5 FT RT FW **3**

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 8.1
# of Values	28
Avg CBR	50.7
Wghtd Avg.	47.0
Max CBR	90.0
Min CBR	27.9

Interval	
8.1	to 45.6
# of Values	67
Avg CBR	27.5
Wghtd Avg.	23.3
Max CBR	90.0
Min CBR	12.8

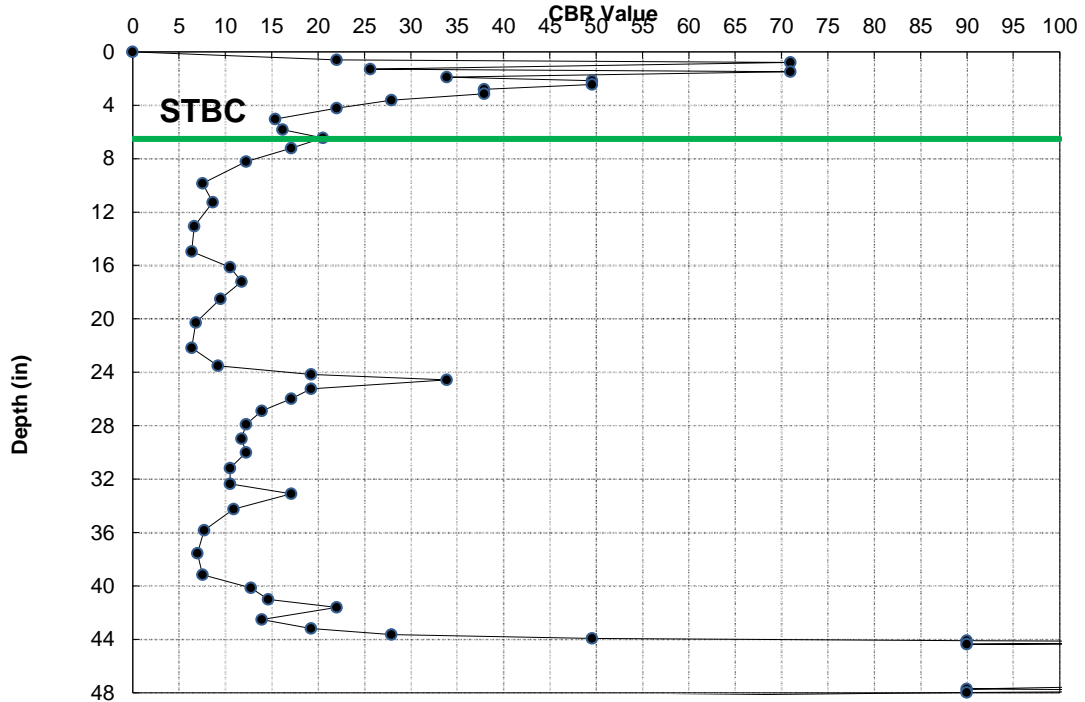


C-44 Y Sta. 63+48 EB OSS 8.3 FT RT FW **4**

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 6.5
# of Values	14
Avg CBR	35.7
Wghtd Avg.	28.6
Max CBR	70.9
Min CBR	15.4

Interval	
6.5	to 50.3
# of Values	81
Avg CBR	93.4
Wghtd Avg.	24.1
Max CBR	100+
Min CBR	6.4

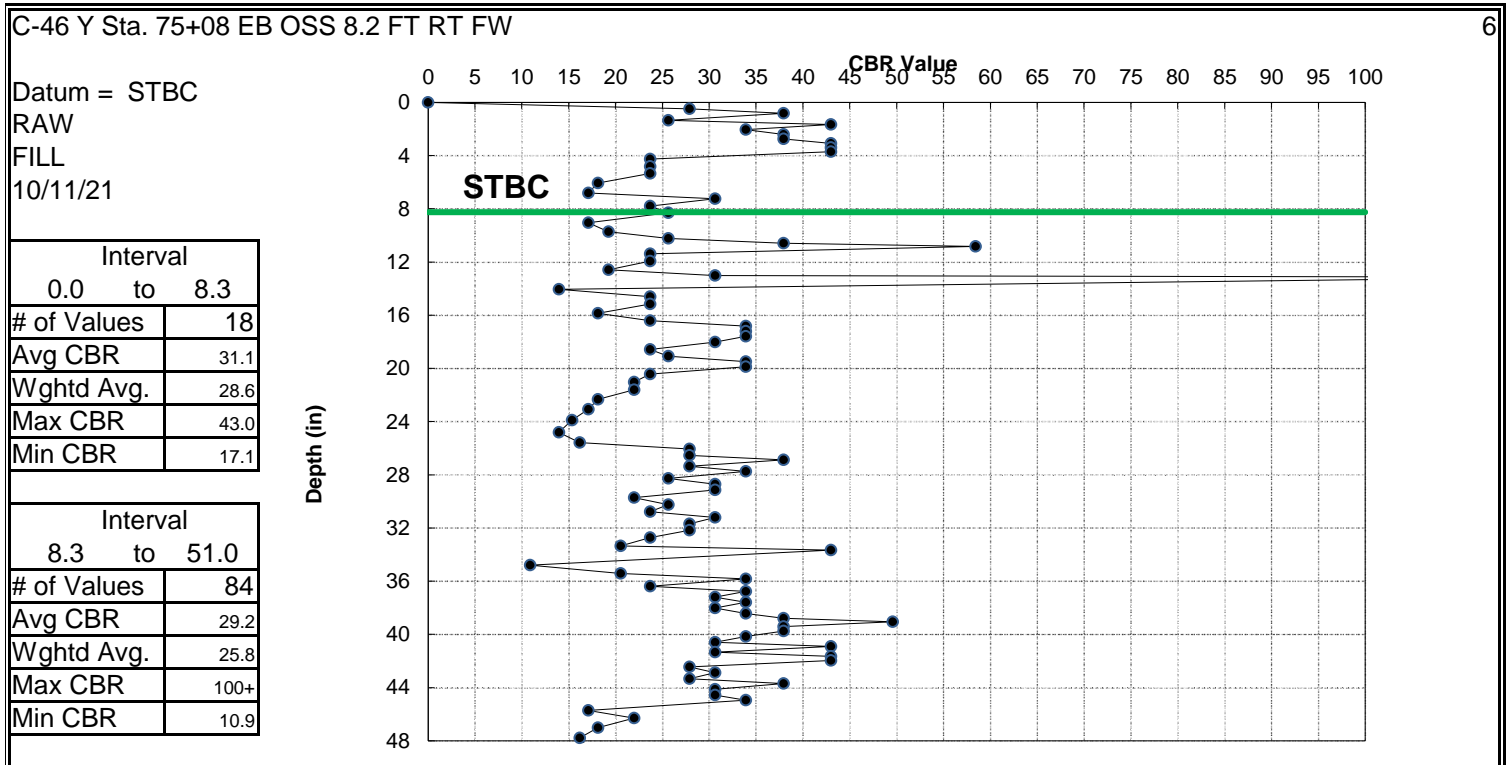
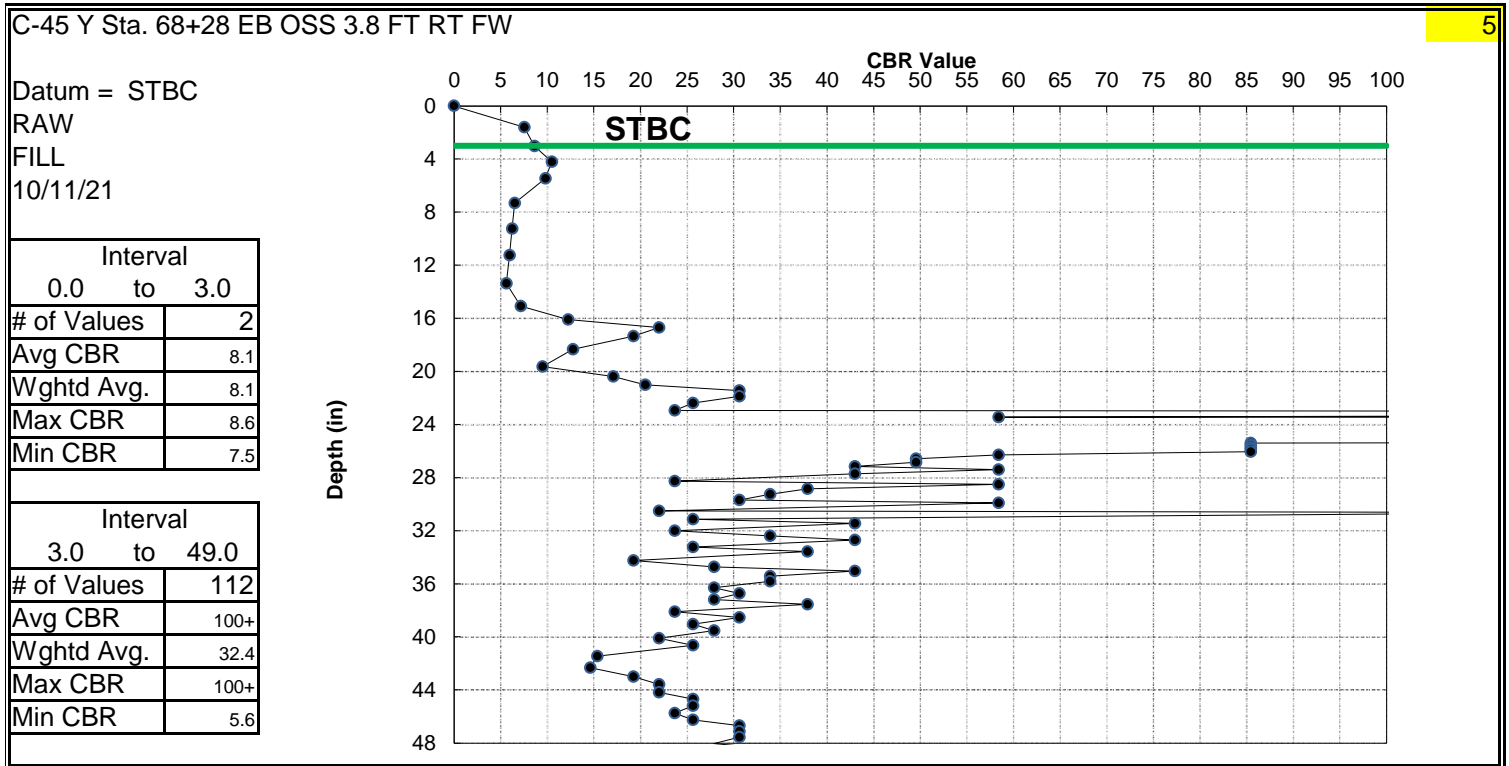


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 3
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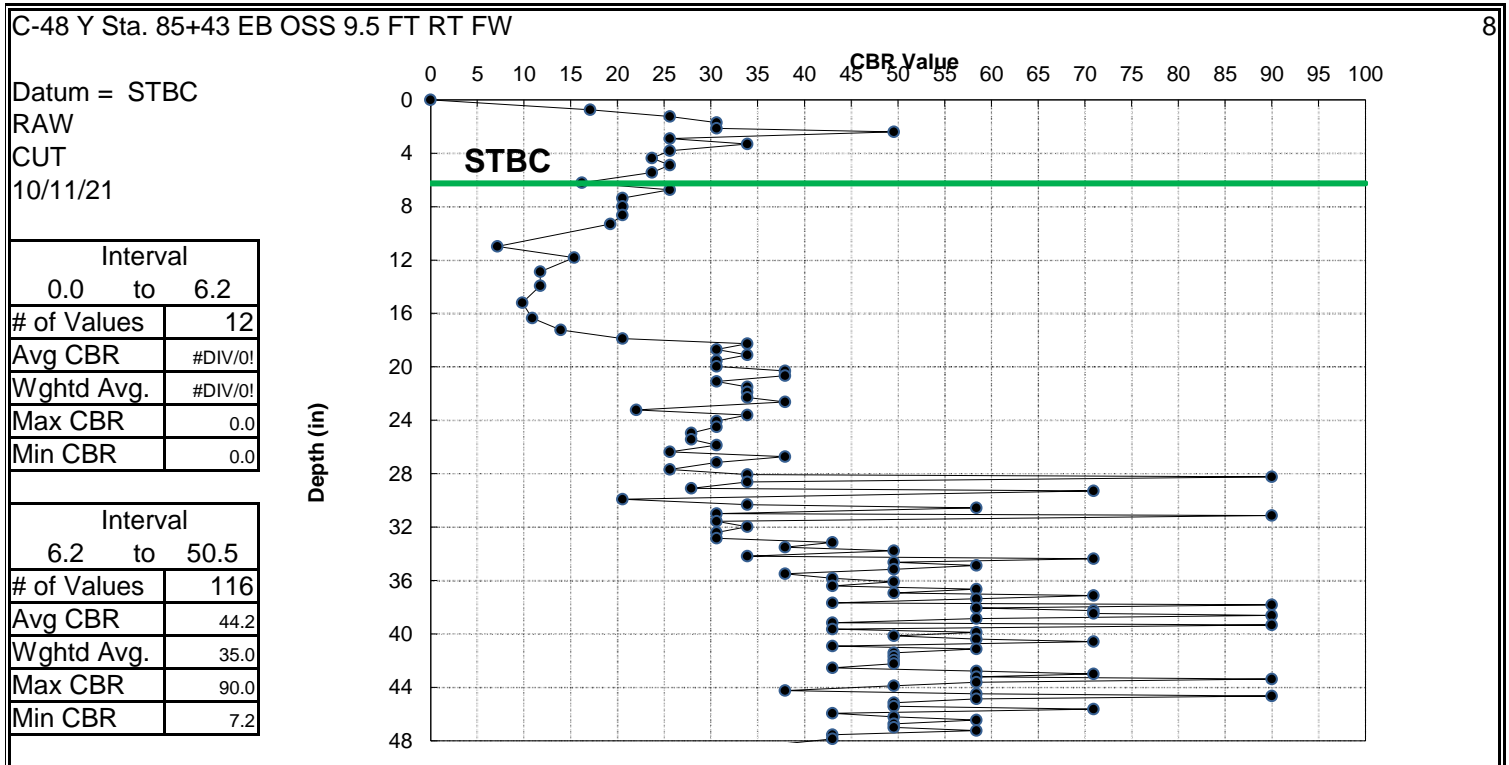
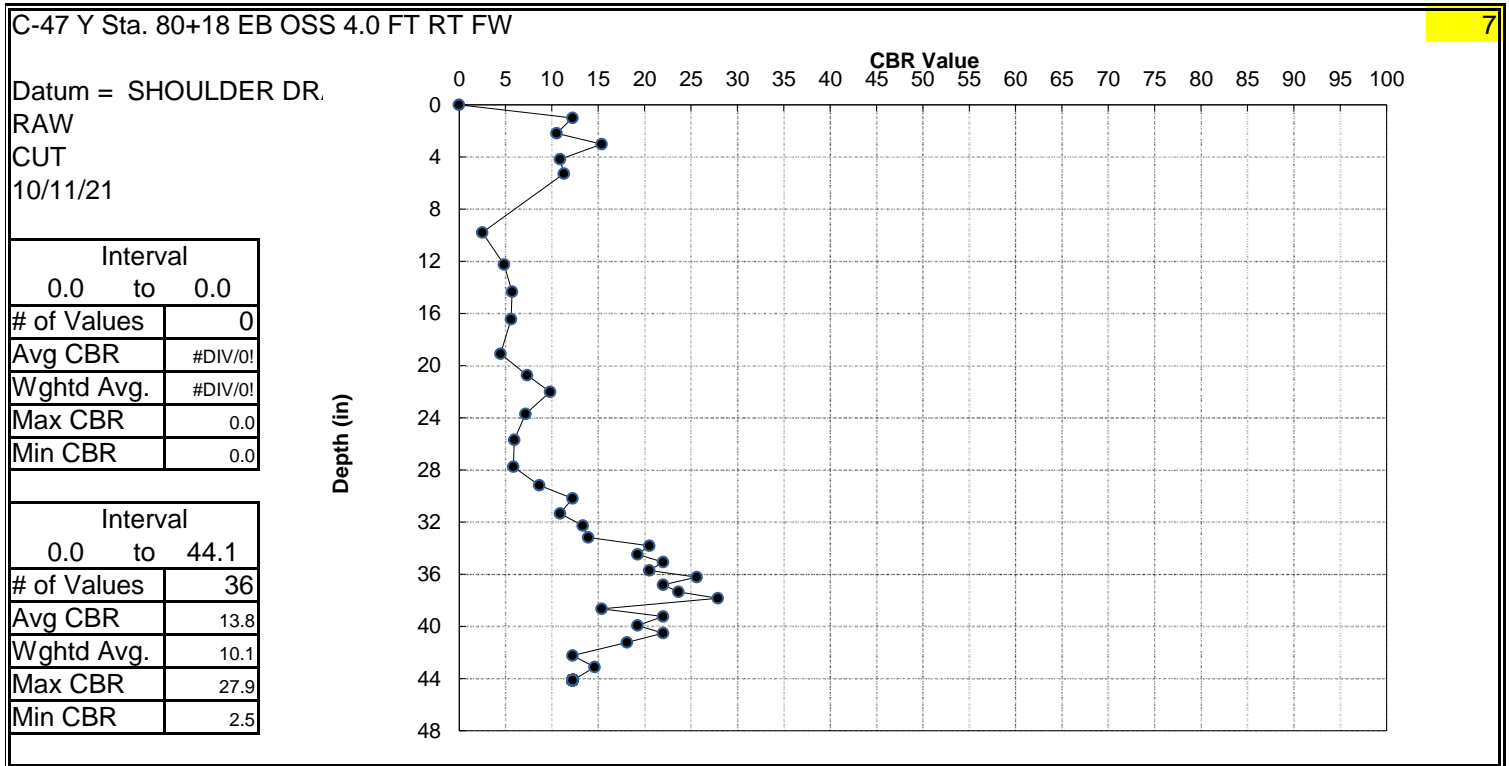


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 3
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**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

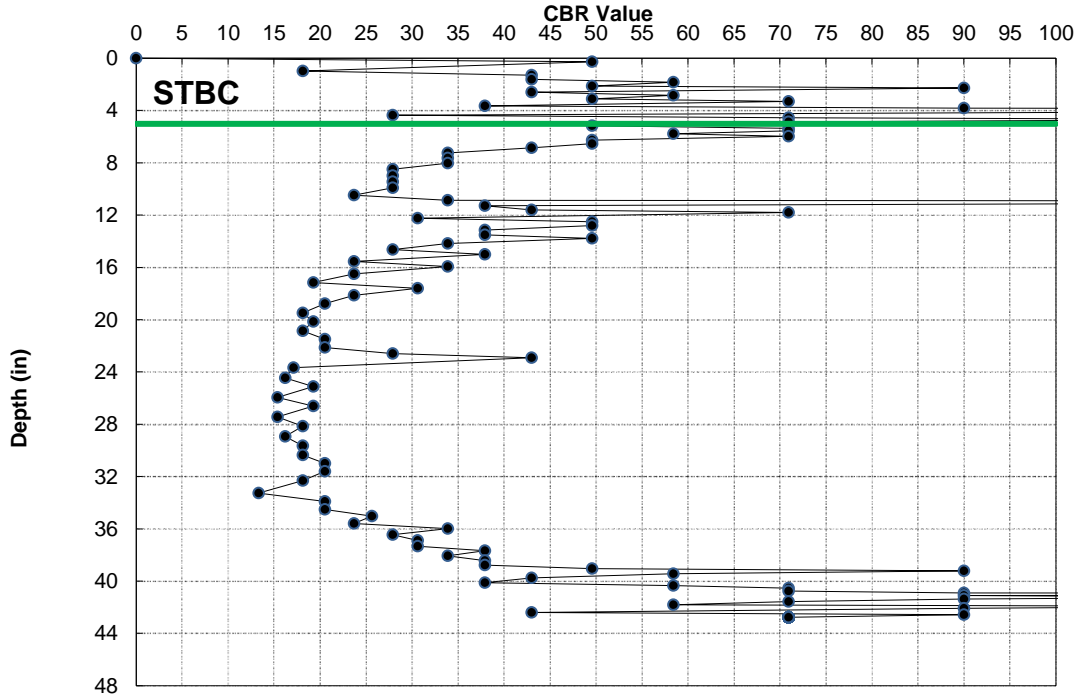
FILE	I2513AA_AB DCP Graphs 3
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C-49 Y Sta. 87+83 EB ISS 4.0 FT LT FY

Datum = STBC
RAW
CUT
10/11/21

Interval	
0.0	to 4.9
# of Values	18
Avg CBR	65.7
Wghtd Avg.	50.4
Max CBR	100+
Min CBR	18.1

Interval	
4.9	to 42.8
# of Values	90
Avg CBR	46.5
Wghtd Avg.	31.6
Max CBR	100+
Min CBR	13.3

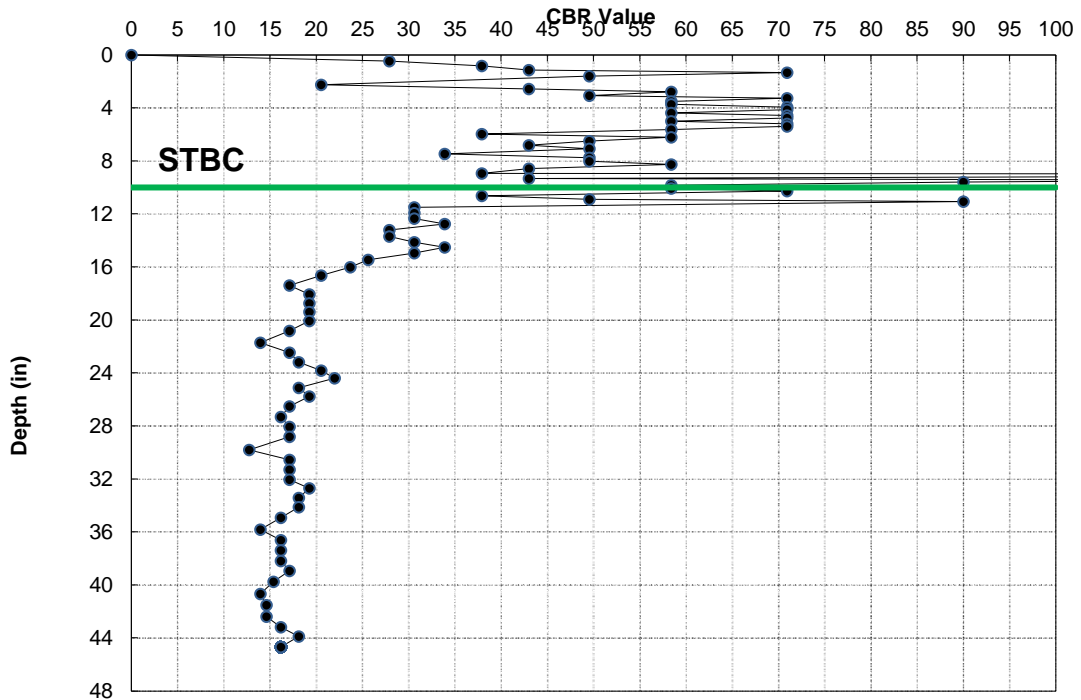


C-50 Y Sta. 87+83 EB ISL 5.5 FT RT FY

Datum = STBC
RAW
CUT
10/11/2021

Interval	
0.0	to 10.1
# of Values	38
Avg CBR	59.5
Wghtd Avg.	51.6
Max CBR	100+
Min CBR	20.5

Interval	
10.1	to 44.7
# of Values	53
Avg CBR	23.1
Wghtd Avg.	19.8
Max CBR	90.0
Min CBR	12.8



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

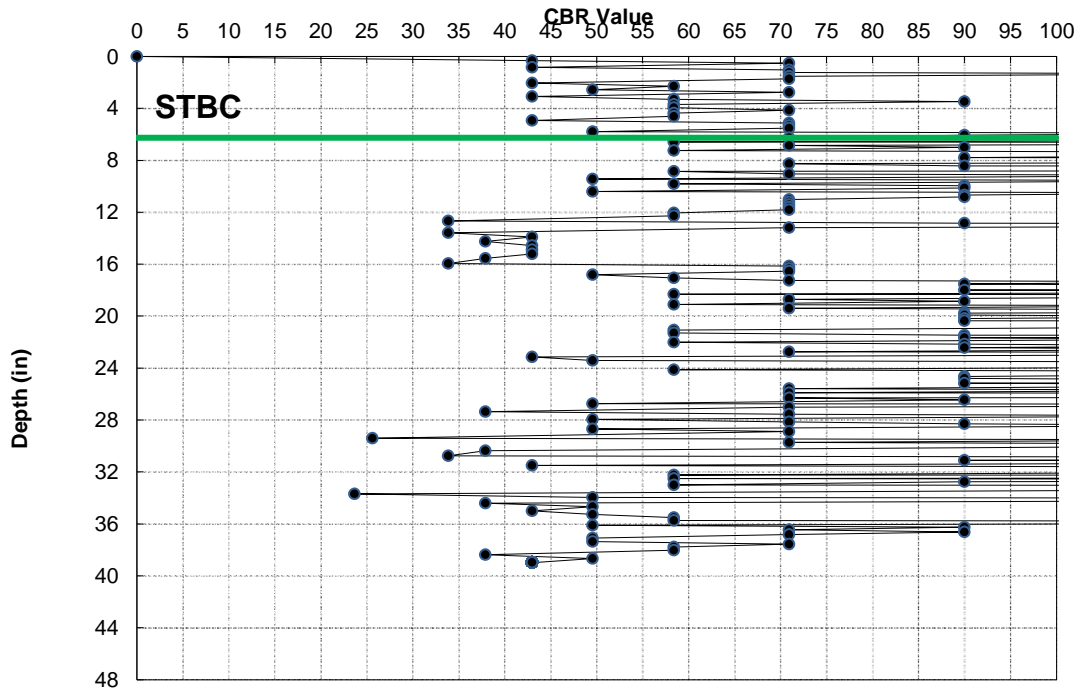
FILE	I2513AA_AB DCP Graphs 3
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C-51 Y Sta. 87+84 EB ISML 16.3 FT RT FW

Datum = STBC
RAW
CUT
10/11/21

Interval 0.0 to 6.3	
# of Values	28
Avg CBR	66.8
Wghtd Avg.	61.9
Max CBR	100+
Min CBR	43.0

Interval 6.3 to 39.0	
# of Values	184
Avg CBR	100+
Wghtd Avg.	79.1
Max CBR	100+
Min CBR	23.7

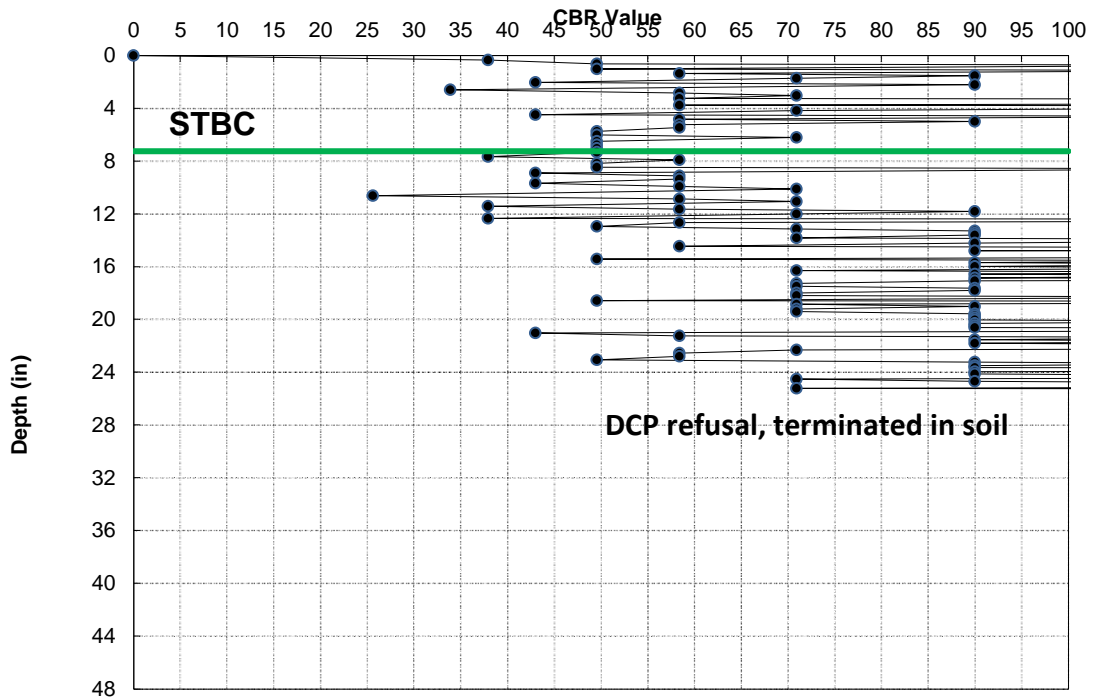


C-52 Y Sta. 87+84 EB OSML 13.5 FT LT FW

Datum = STBC
RAW
CUT
10/11/21

Interval 0.0 to 7.3	
# of Values	34
Avg CBR	79.2
Wghtd Avg.	64.5
Max CBR	100+
Min CBR	33.9

Interval 7.3 to 28.7	
# of Values	159
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	25.6



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

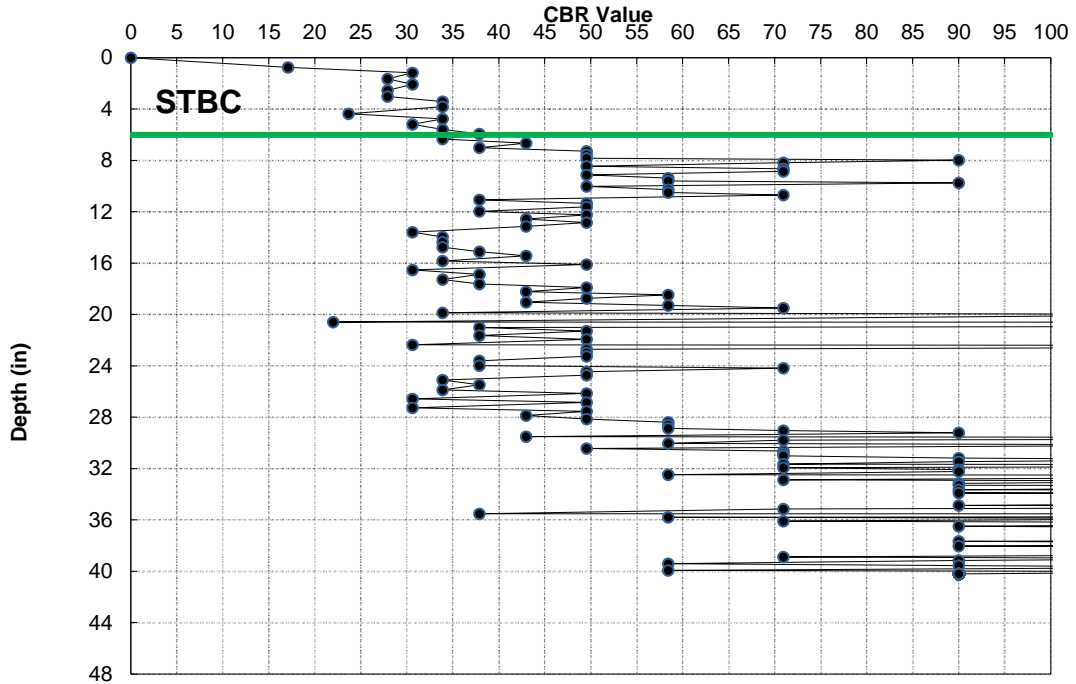
FILE	I2513AA_AB DCP Graphs 3
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C-53 Y Sta. 87+84 EB OSL 2.8 FT LT FW

Datum = STBC
RAW
CUT
10/11/21

Interval	
0.0	to 6.3
# of Values	14
Avg CBR	30.3
Wghtd Avg.	29.2
Max CBR	37.9
Min CBR	17.1

Interval	
6.3	to 40.2
# of Values	156
Avg CBR	88.9
Wghtd Avg.	63.9
Max CBR	100+
Min CBR	22.0

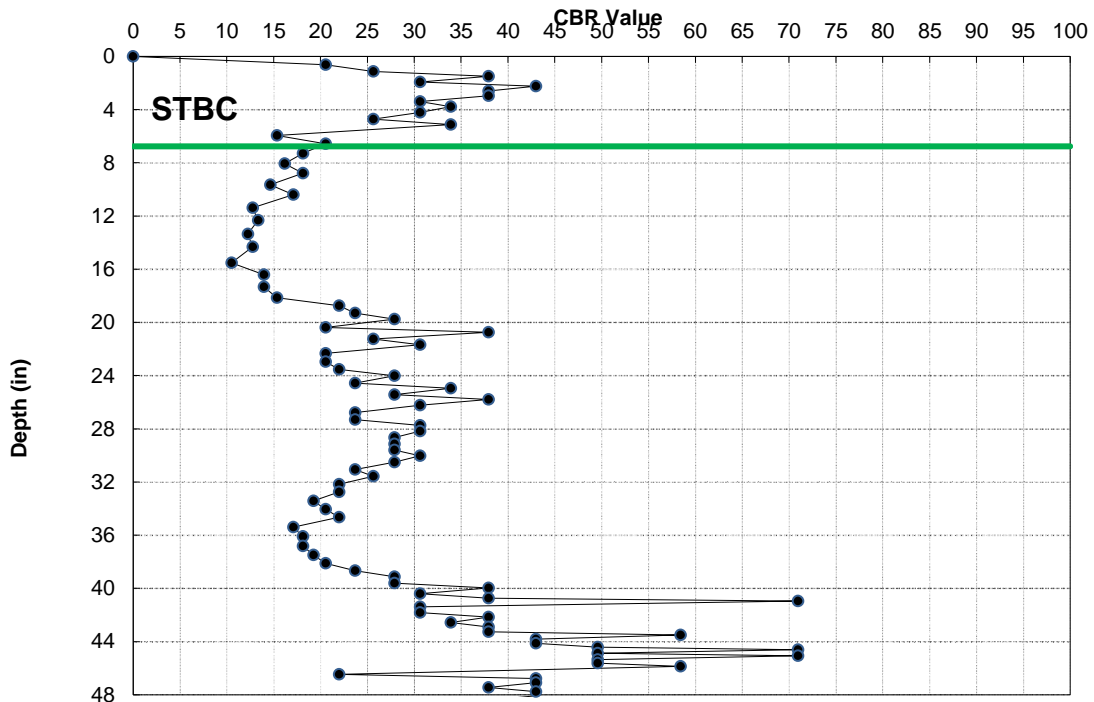


C-54 Y Sta. 87+84 EB OSS 8.2 FT RT FW

Datum = STBC
RAW
CUT
10/11/21

Interval	
0.0	to 6.6
# of Values	14
Avg CBR	30.3
Wghtd Avg.	28.1
Max CBR	43.0
Min CBR	15.4

Interval	
6.6	to 51.3
# of Values	89
Avg CBR	31.8
Wghtd Avg.	26.1
Max CBR	90.0
Min CBR	10.5



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 3
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C-55 Y_EB Sta. 10+59 EB OSS 4.0 FT RT FW

Datum = STBC

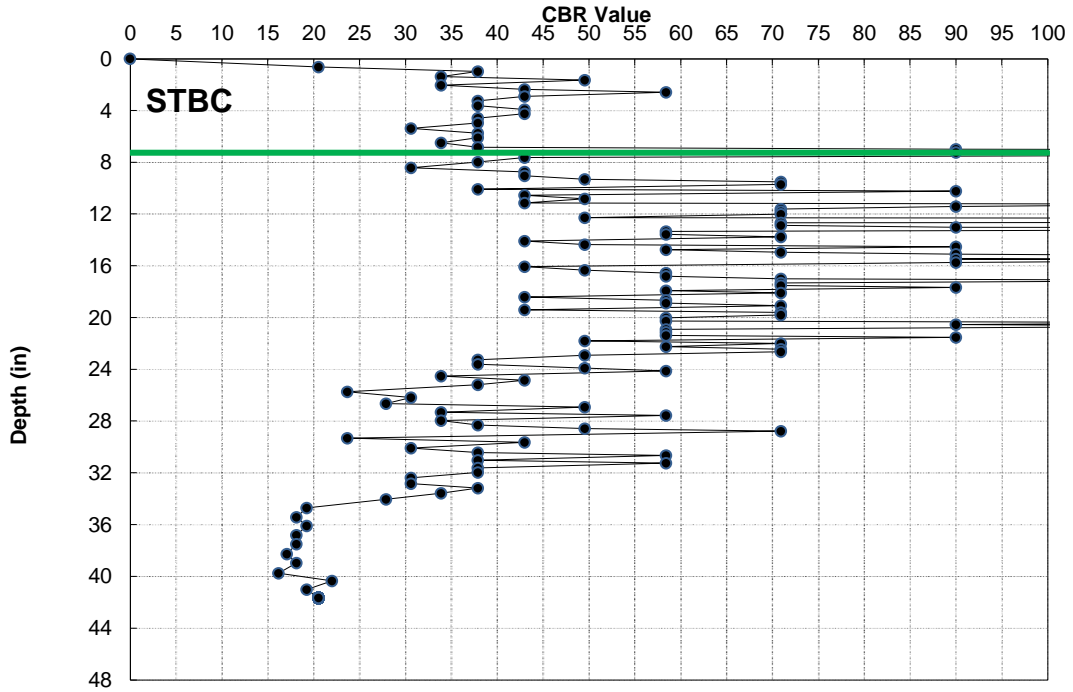
RAW

FILL

10/11/21

Interval	
0.0	to 7.2
# of Values	22
Avg CBR	50.2
Wghtd Avg.	41.0
Max CBR	100+
Min CBR	20.5

Interval	
7.2	to 41.7
# of Values	116
Avg CBR	64.0
Wghtd Avg.	45.8
Max CBR	100+
Min CBR	16.2



C-56 Y_EB Sta. 15+85 EB ISS 1.7 FT LT FY

Datum = STBC

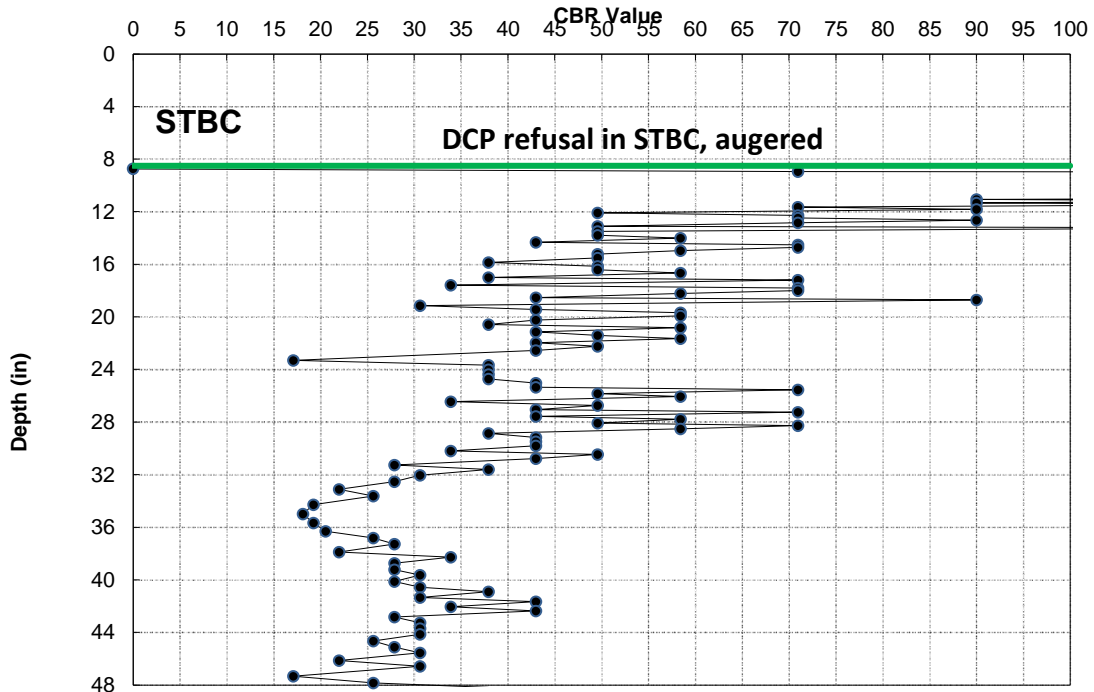
RAW

CUT

10/11/21

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

Interval	
8.7	to 48.8
# of Values	145
Avg CBR	100+
Wghtd Avg.	49.4
Max CBR	100+
Min CBR	17.1



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

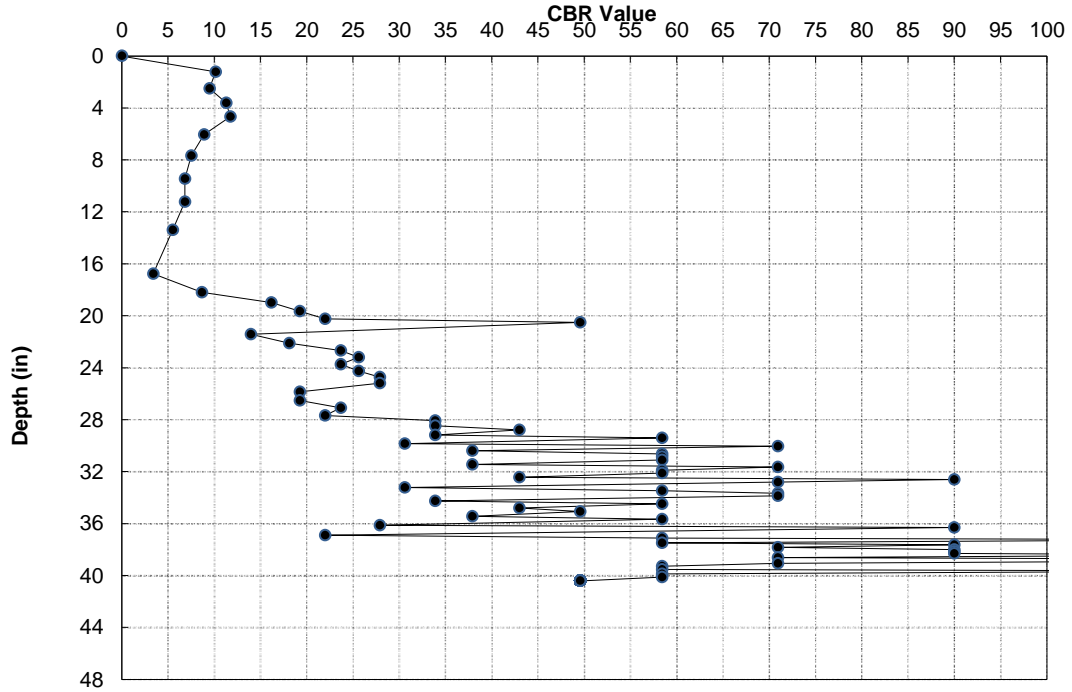
FILE	I2513AA_AB DCP Graphs 3
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C-57 Y_EB Sta. 15+83 EB OSS 10.0 FT RT FW

Datum = SG
RAW
CUT
10/11/21

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

Interval	
0.0	to 40.4
# of Values	77
Avg CBR	47.4
Wghtd Avg.	25.0
Max CBR	100+
Min CBR	3.4

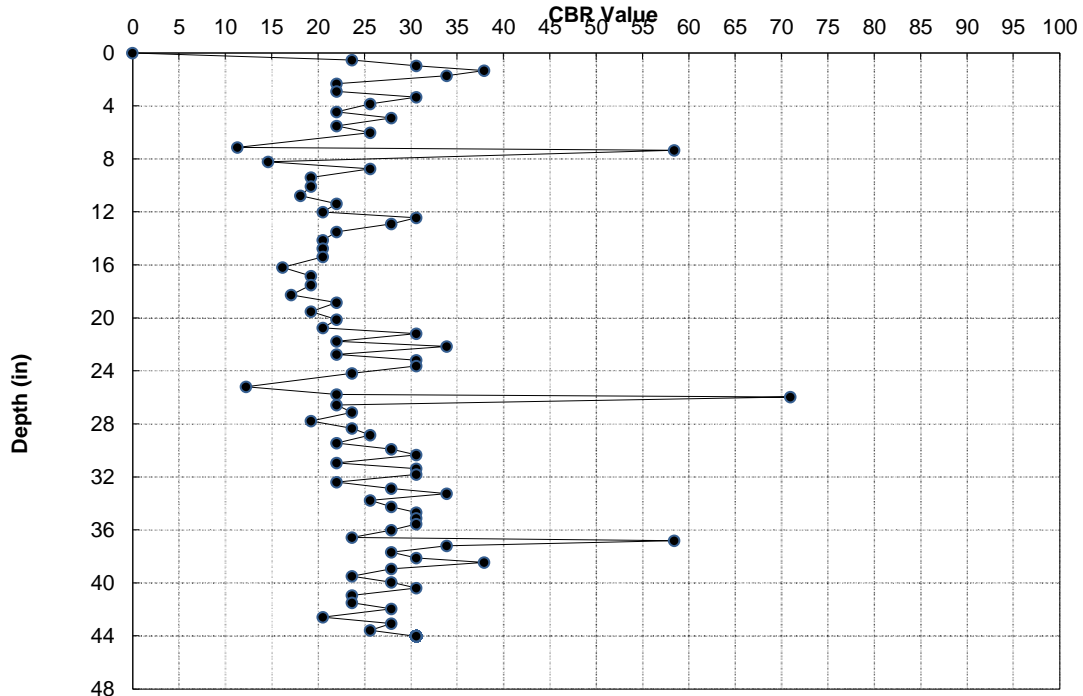


C-58 Y_EB Sta. 20+58 EB ISS 1.5 FT LT FY

Datum = SG
RAW
CUT
10/11/21

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

Interval	
0.0	to 44.0
# of Values	82
Avg CBR	26.4
Wghtd Avg.	24.3
Max CBR	70.9
Min CBR	11.3



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

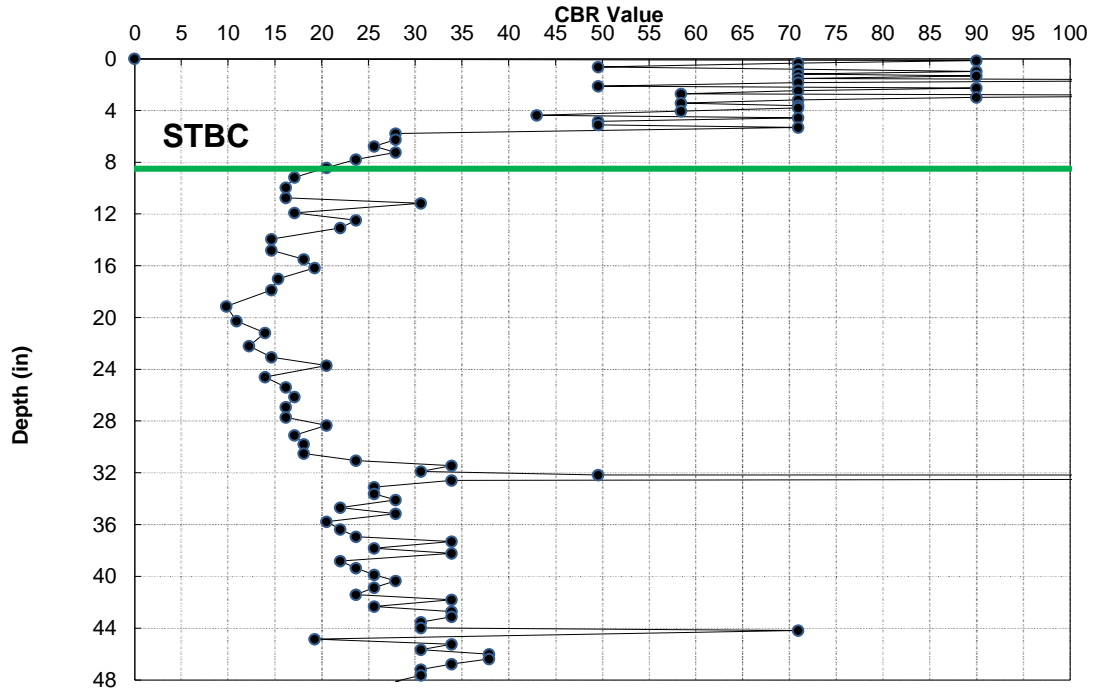
FILE	I2513AA_AB DCP Graphs 3
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C-59 Y_EB Sta. 20+65 EB OSS 5.5 FT RT FW

Datum = STBC
RAW
CUT
10/11/21

Interval	
0.0	to 8.4
# of Values	32
Avg CBR	63.9
Wghtd Avg.	52.0
Max CBR	100+
Min CBR	20.5

Interval	
8.4	to 50.4
# of Values	73
Avg CBR	30.7
Wghtd Avg.	22.6
Max CBR	100+
Min CBR	9.8

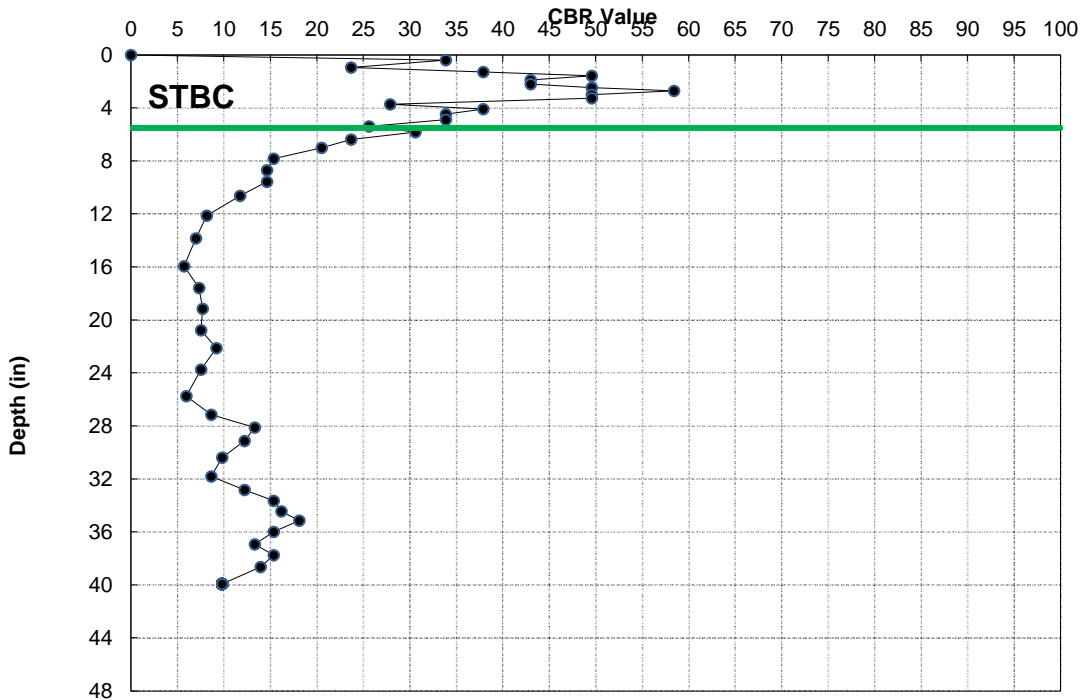


C-60 Y_EB Sta. 25+61 EB ISS

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 5.4
# of Values	15
Avg CBR	39.8
Wghtd Avg.	#DIV/0!
Max CBR	58.4
Min CBR	23.7

Interval	
5.4	to 39.9
# of Values	30
Avg CBR	12.7
Wghtd Avg.	10.8
Max CBR	30.6
Min CBR	5.7

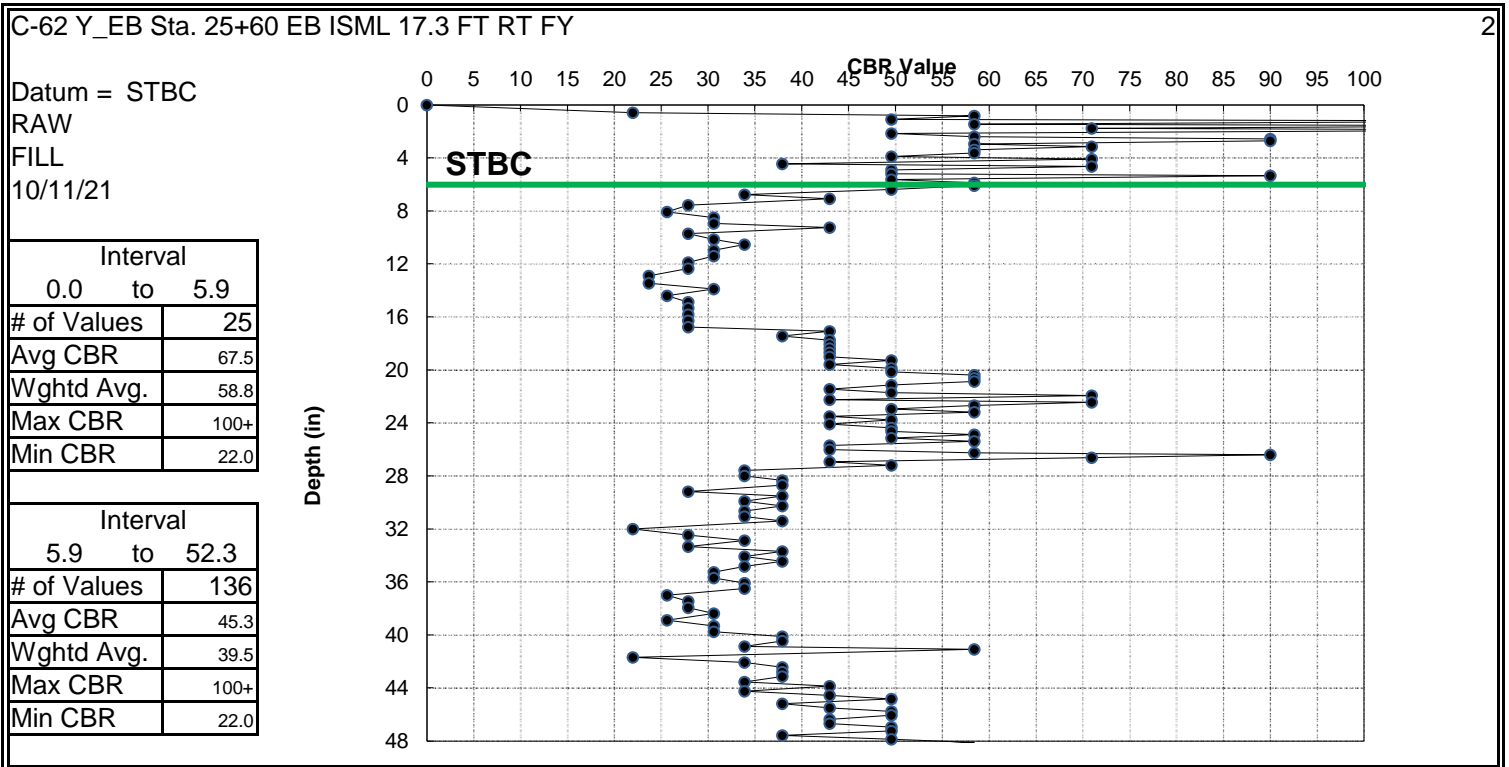
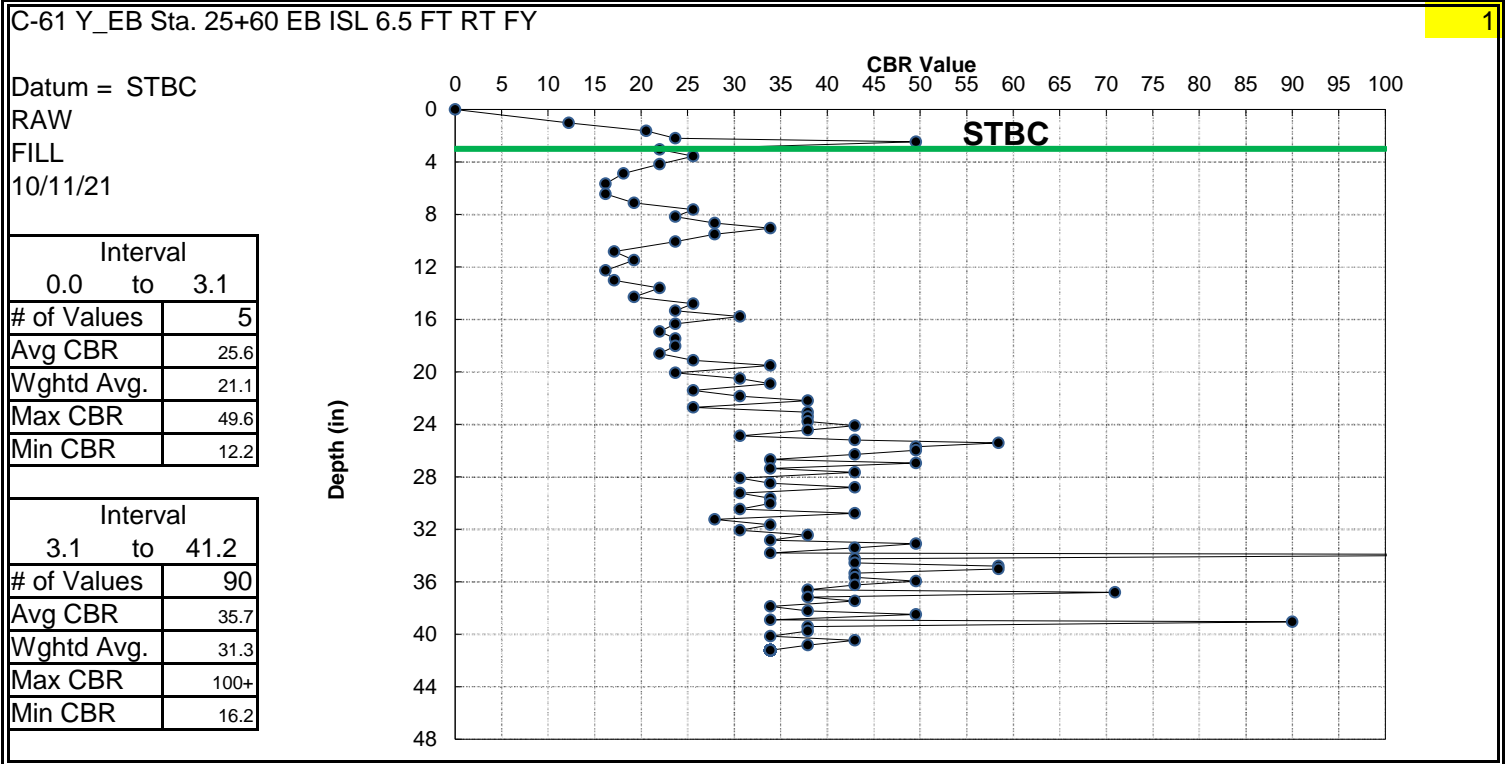


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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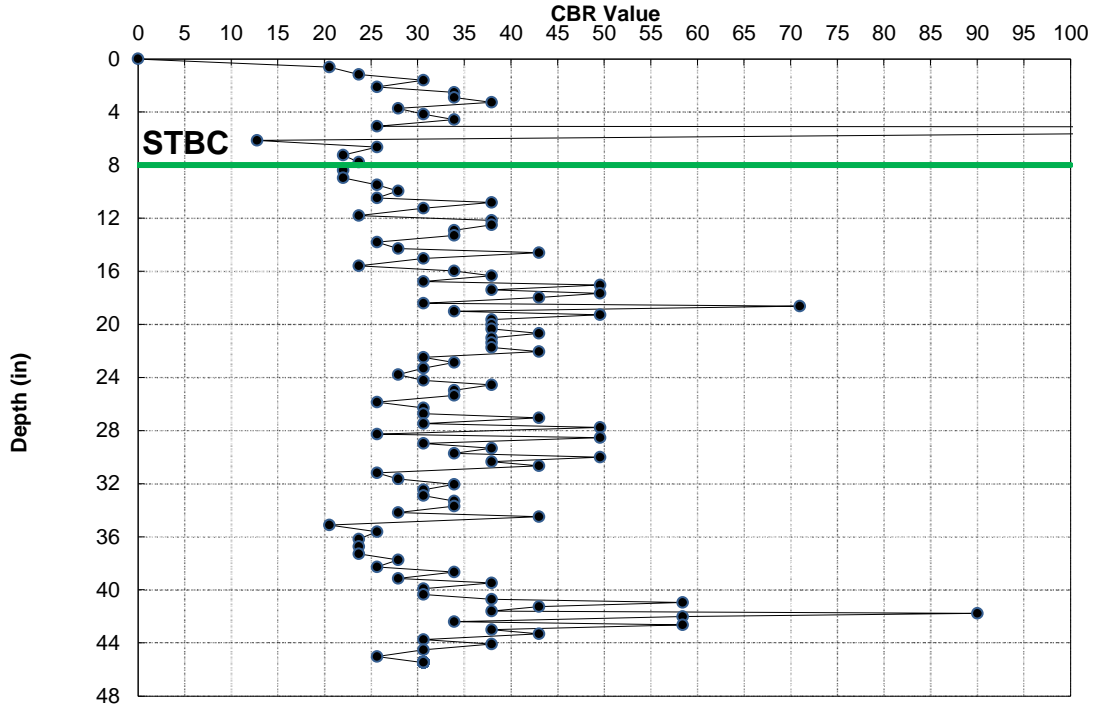
C-63 Y_EB Sta. 25+61 EB OSML 16.8 FT LT FW

3

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 7.8
# of Values	16
Avg CBR	37.3
Wghtd Avg.	27.0
Max CBR	100+
Min CBR	12.8

Interval	
7.8	to 45.5
# of Values	94
Avg CBR	35.5
Wghtd Avg.	33.2
Max CBR	90.0
Min CBR	20.5



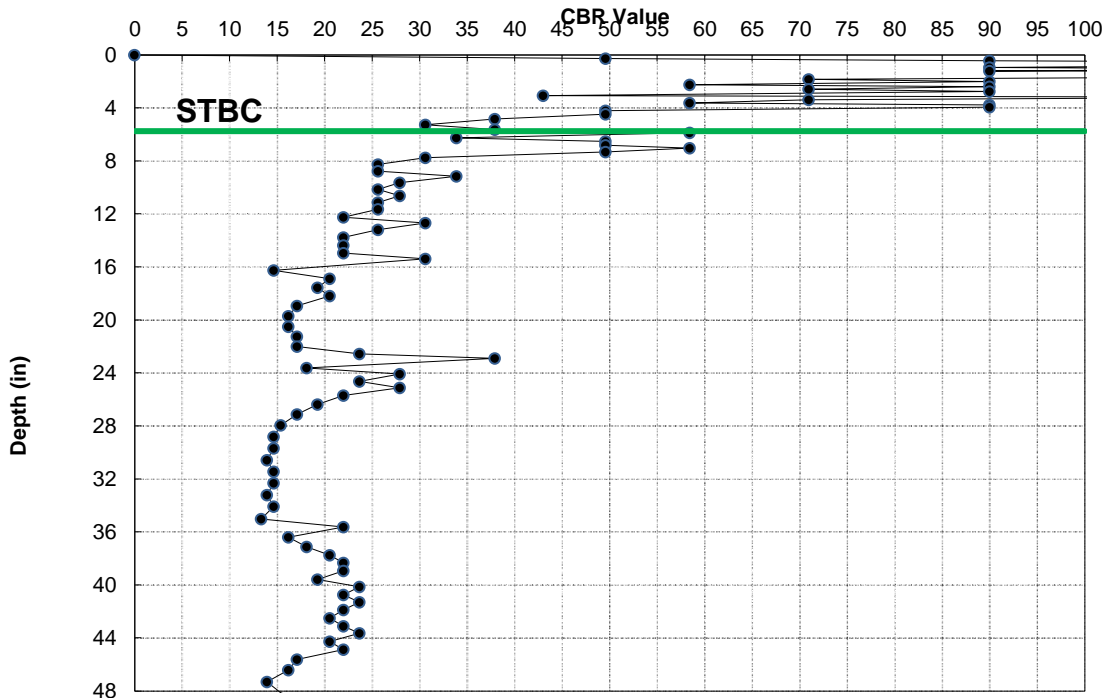
C-64 Y_EB Sta. 25+61 EB OSL 4.7 FT LT FW

4

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 5.9
# of Values	30
Avg CBR	85.8
Wghtd Avg.	71.4
Max CBR	100+
Min CBR	30.6

Interval	
5.9	to 48.9
# of Values	69
Avg CBR	23.1
Wghtd Avg.	20.8
Max CBR	58.4
Min CBR	13.3



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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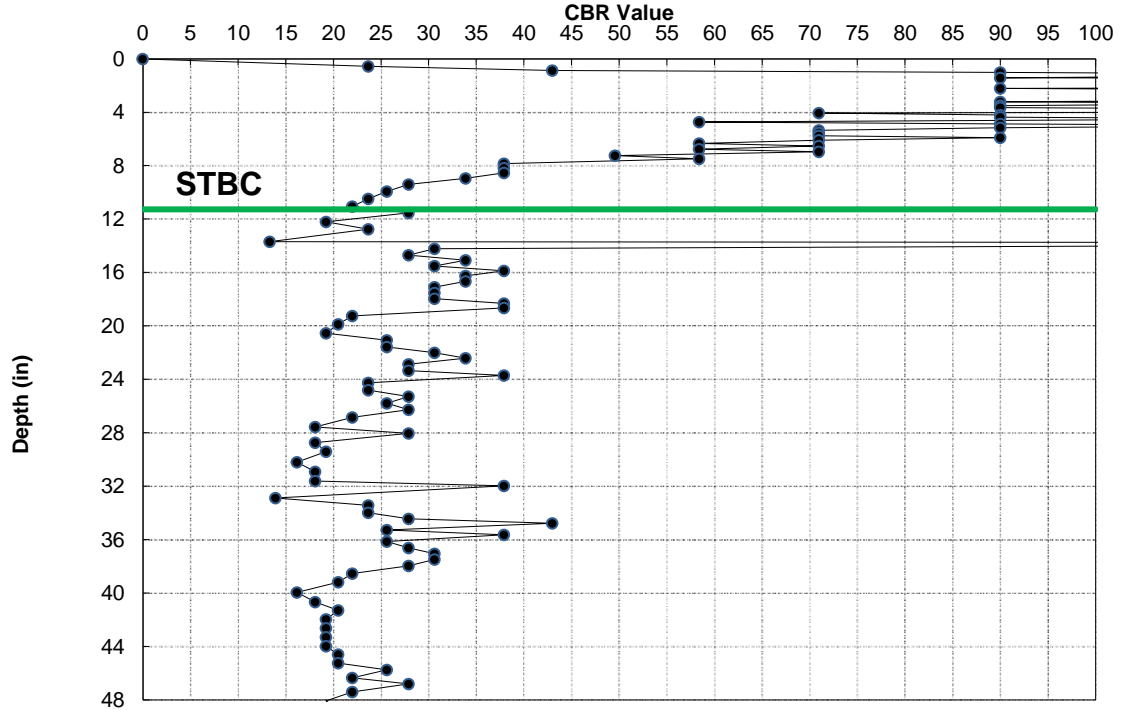
C-65 Y_EB Sta. 25+60 EB OSS 3.0 FT RT FW

5

Datum = STBC
RAW
CUT
10/11/21

Interval 0.0 to 11.1	
# of Values	54
Avg CBR	92.3
Wghtd Avg.	68.0
Max CBR	100+
Min CBR	22.0

Interval 11.1 to 56.4	
# of Values	82
Avg CBR	26.8
Wghtd Avg.	23.6
Max CBR	100+
Min CBR	13.3



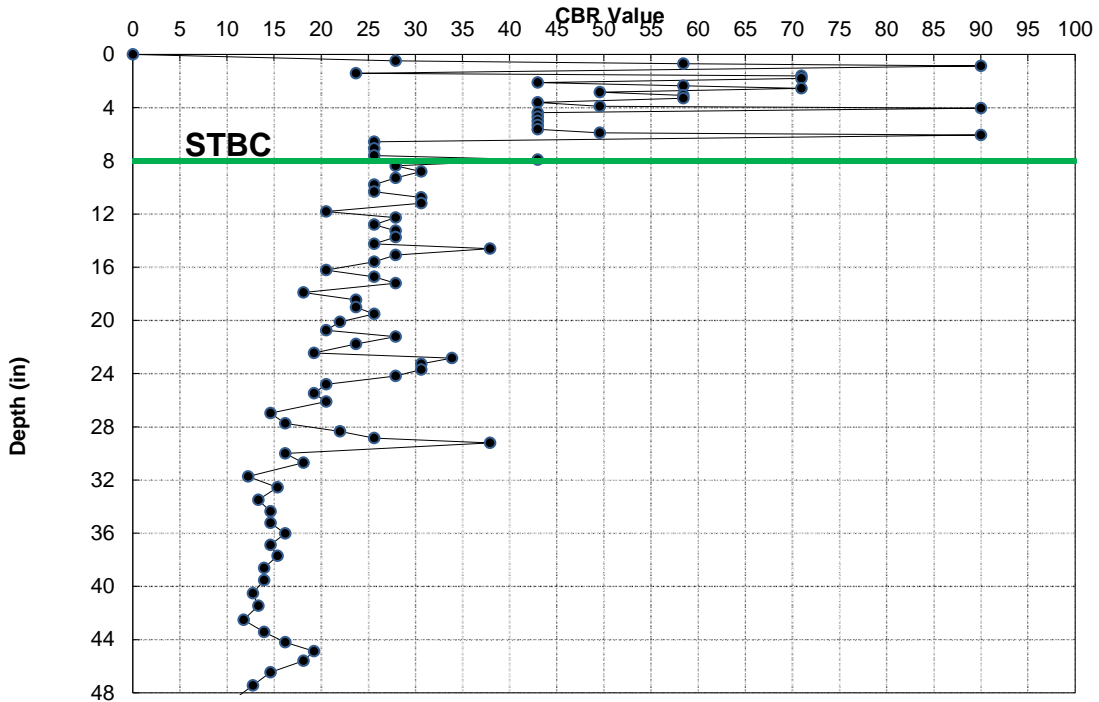
C-66 Y_EB Sta. 31+04 EB ISS 4.0 FT LT FY

6

Datum = STBC
RAW
CUT
10/11/21

Interval 0.0 to 7.9	
# of Values	26
Avg CBR	51.4
Wghtd Avg.	44.6
Max CBR	90.0
Min CBR	23.7

Interval 7.9 to 51.4	
# of Values	66
Avg CBR	21.7
Wghtd Avg.	19.6
Max CBR	37.9
Min CBR	10.5



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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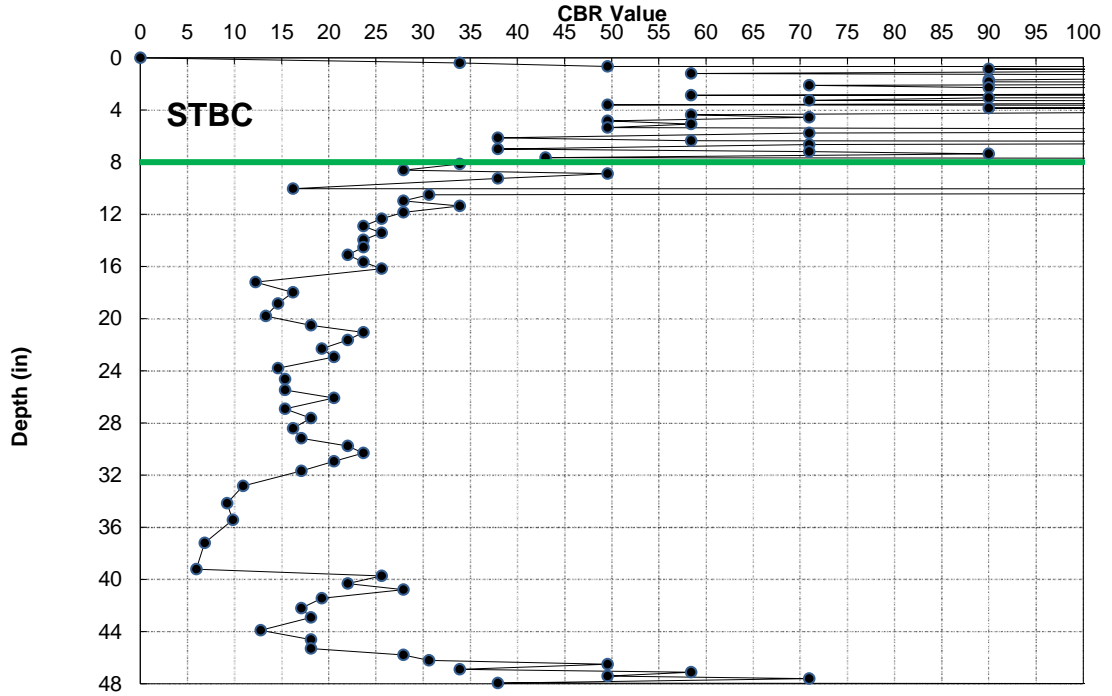
C-67 Y_EB Sta. 31+04 EB OSS 7.5 FT RT FY

7

Datum = STBC
RAW
AT GRADE
10/11/21

Interval	
0.0	to 8.1
# of Values	48
Avg CBR	100+
Wghtd Avg.	83.1
Max CBR	100+
Min CBR	33.9

Interval	
8.1	to 53.3
# of Values	91
Avg CBR	53.5
Wghtd Avg.	26.5
Max CBR	100+
Min CBR	6.0



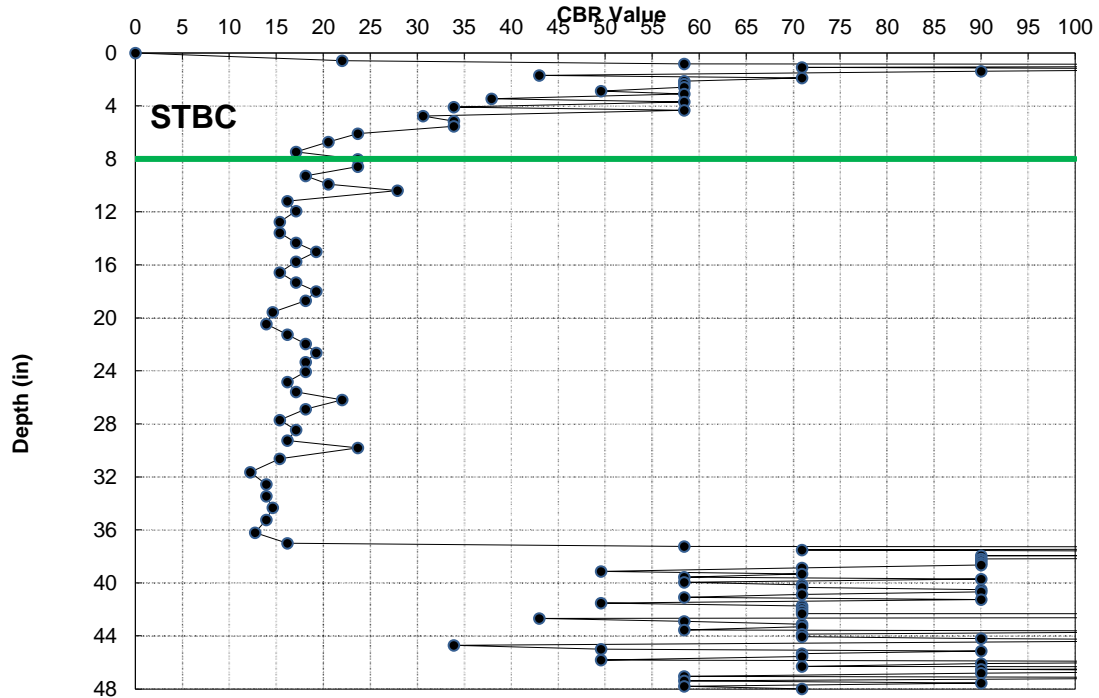
C-68 Y_EB Sta. 36+17 EB ISS 1.7 FT LT FY

8

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 8.0
# of Values	24
Avg CBR	100+
Wghtd Avg.	83.1
Max CBR	100+
Min CBR	33.9

Interval	
8.0	to 50.3
# of Values	109
Avg CBR	63.6
Wghtd Avg.	34.4
Max CBR	100+
Min CBR	12.2

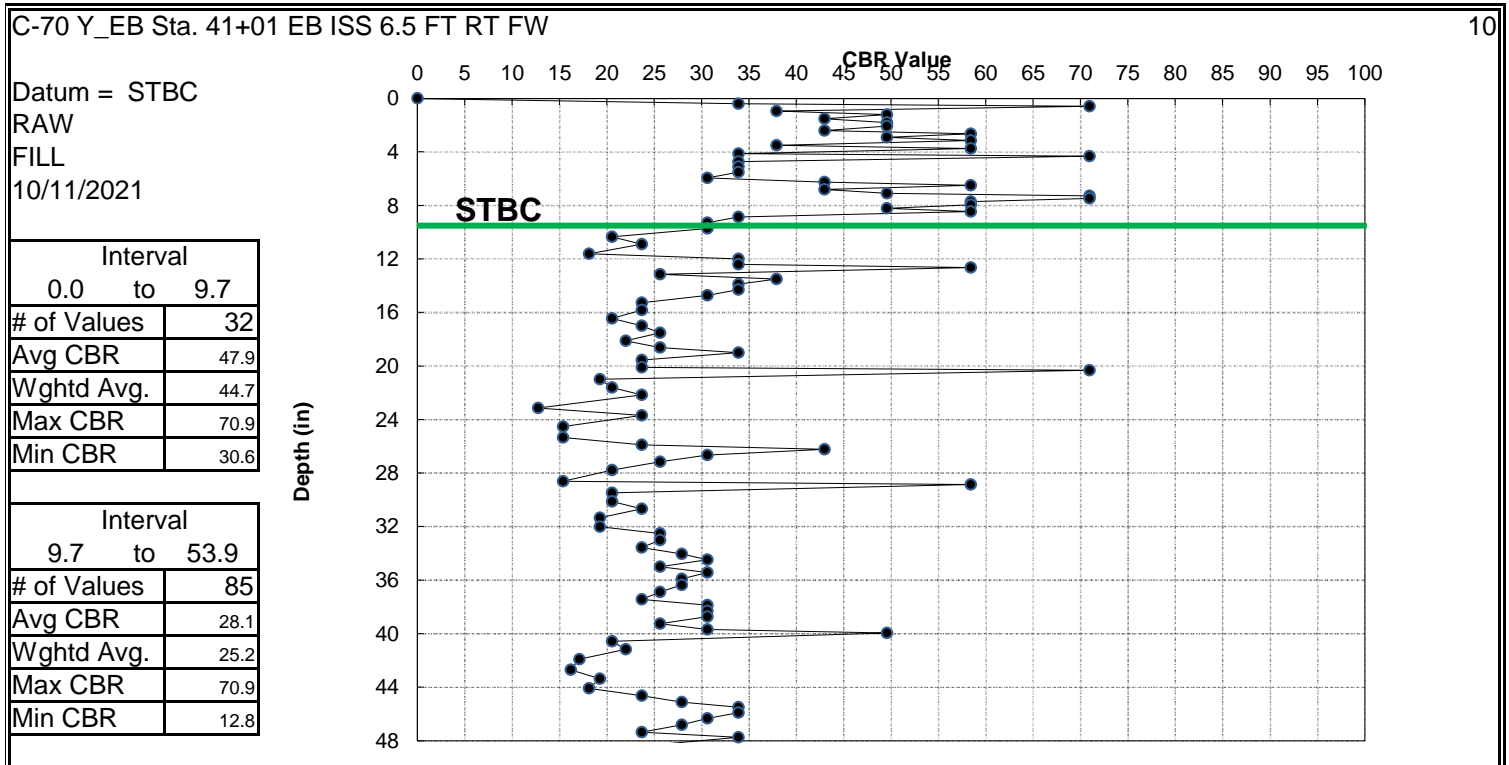
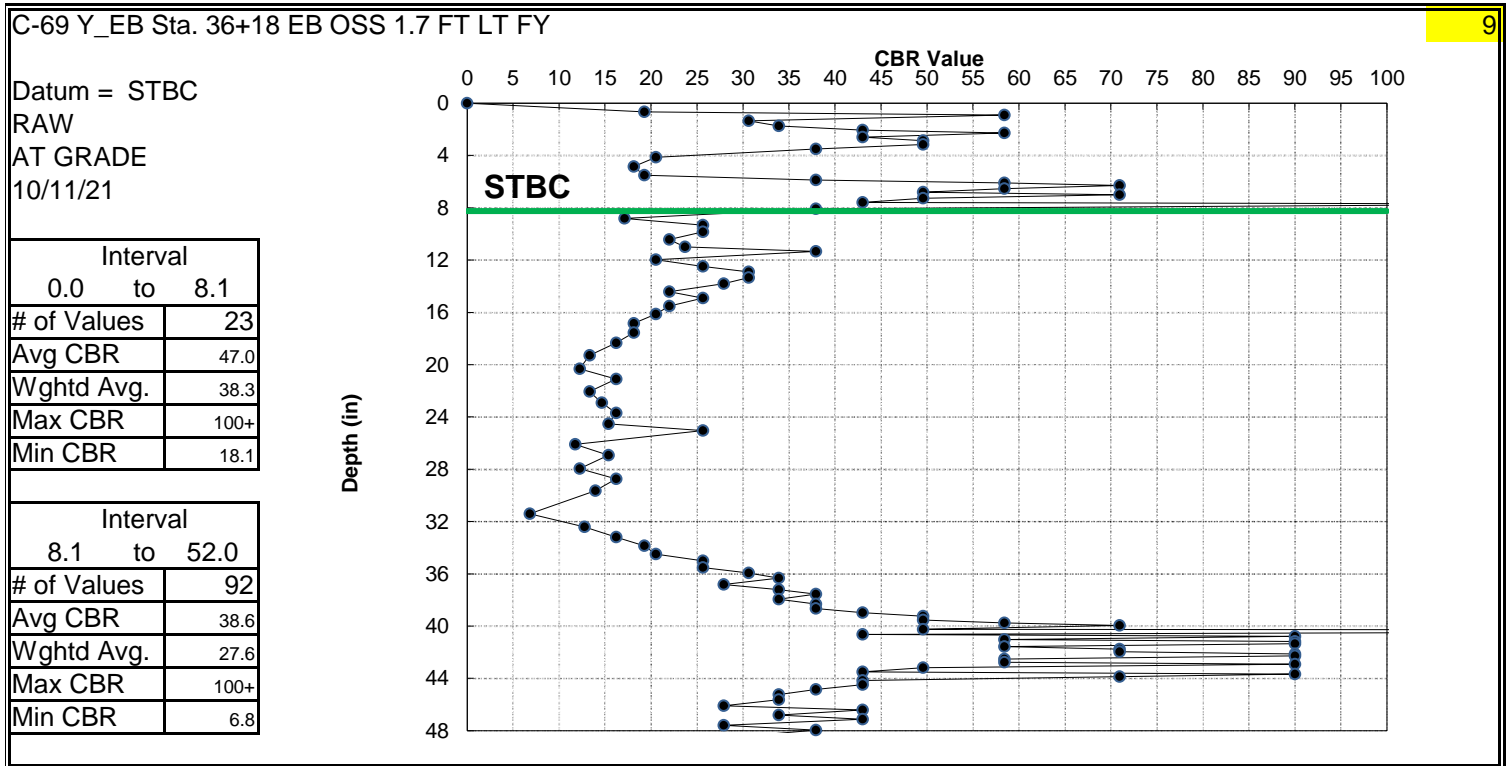


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

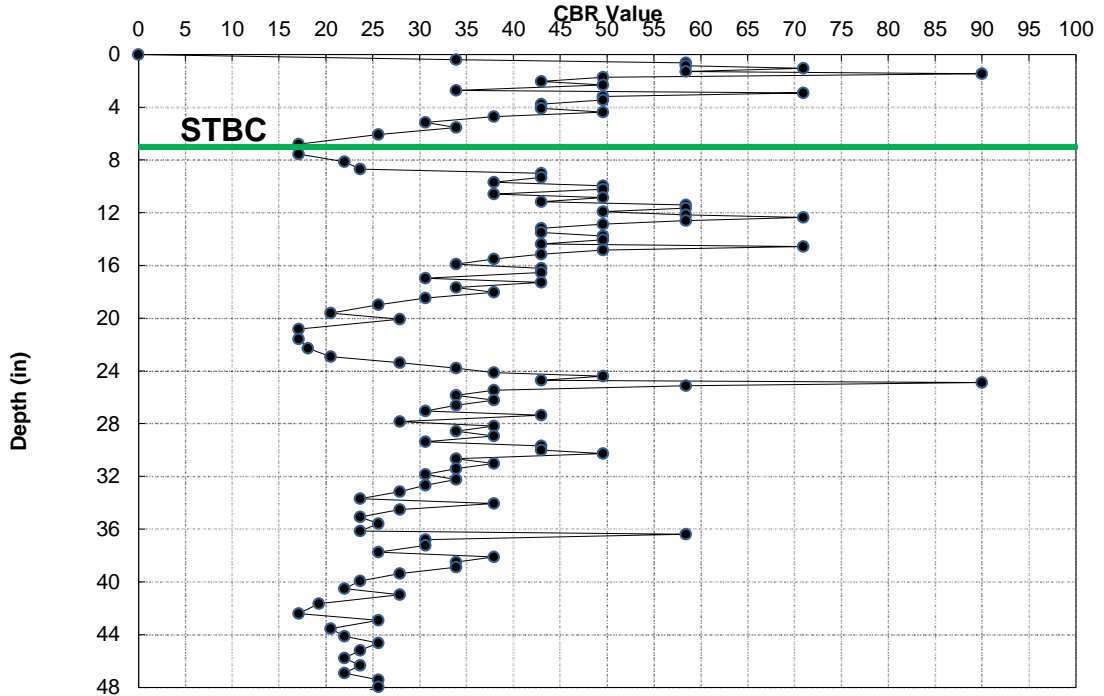
FILE	I2513AA_AB DCP Graphs 4
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C-71 Y_EB Sta. 41+02 EB OSS 2.5 FT LT FY **11**

Datum = STBC
RAW
FILL
10/11/21

Interval 0.0 to 6.8	
# of Values	21
Avg CBR	47.5
Wghtd Avg.	41.7
Max CBR	90.0
Min CBR	17.1

Interval 6.8 to 53.1	
# of Values	110
Avg CBR	35.3
Wghtd Avg.	31.5
Max CBR	90.0
Min CBR	17.1

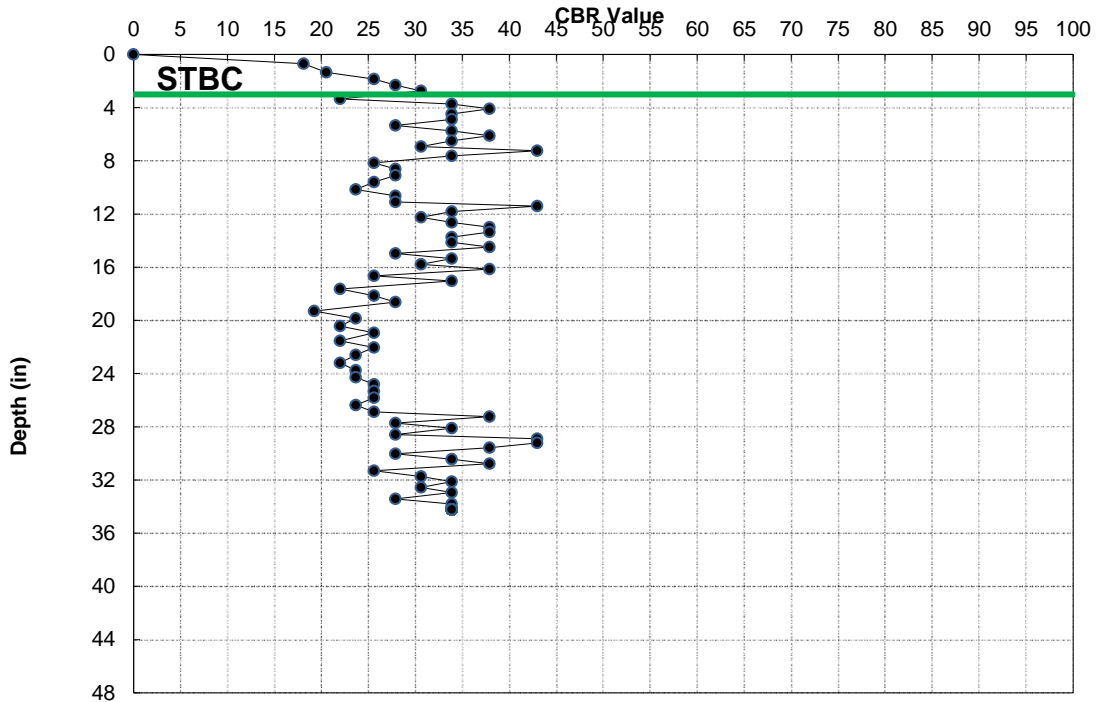


C-72 Y Sta. 20+96 WB OSS 4.0 FT RT FW **12**

Datum = STBC
RAW
CUT
10/11/21

Interval 0.0 to 2.8	
# of Values	5
Avg CBR	24.6
Wghtd Avg.	23.7
Max CBR	30.6
Min CBR	18.1

Interval 2.8 to 34.2	
# of Values	70
Avg CBR	30.5
Wghtd Avg.	29.4
Max CBR	43.0
Min CBR	19.2



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

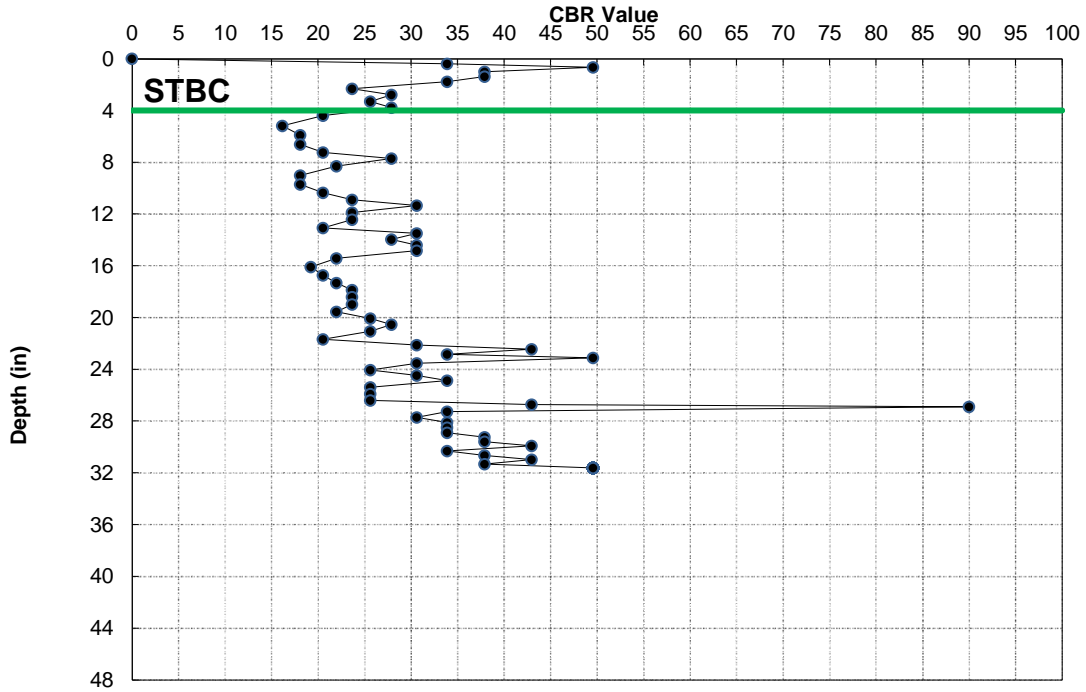
FILE	I2513AA_AB DCP Graphs 4
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C-73 Y Sta. 20+96 WB OSL 4.0 FT LT FW

Datum = STBC
RAW
CUT
10/11/21

Interval 0.0 to 3.8	
# of Values	9
Avg CBR	33.1
Wghtd Avg.	31.6
Max CBR	49.6
Min CBR	23.7

Interval 3.8 to 31.6	
# of Values	57
Avg CBR	29.7
Wghtd Avg.	26.9
Max CBR	90.0
Min CBR	16.2

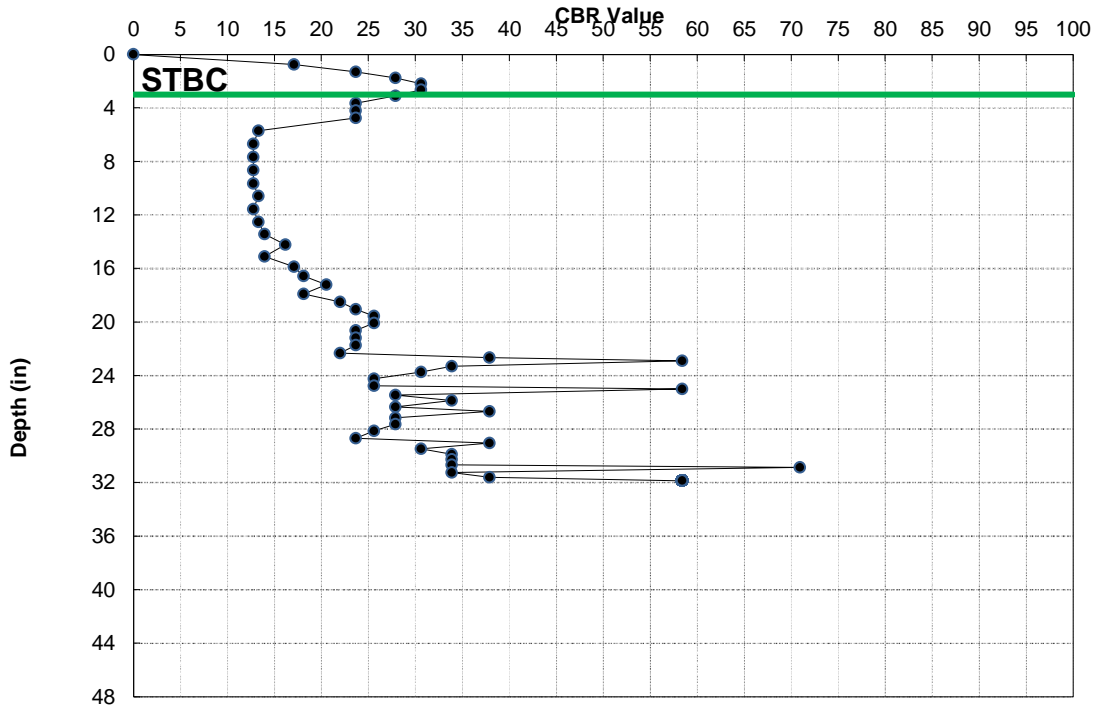


C-75 Y Sta. 20+96 WB ISL (O) 9.5 FT RT FY

Datum = STBC
RAW
CUT
10/11/21

Interval 0.0 to 3.1	
# of Values	6
Avg CBR	26.3
Wghtd Avg.	25.3
Max CBR	30.6
Min CBR	17.1

Interval 3.1 to 31.9	
# of Values	50
Avg CBR	27.1
Wghtd Avg.	22.6
Max CBR	70.9
Min CBR	12.8



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

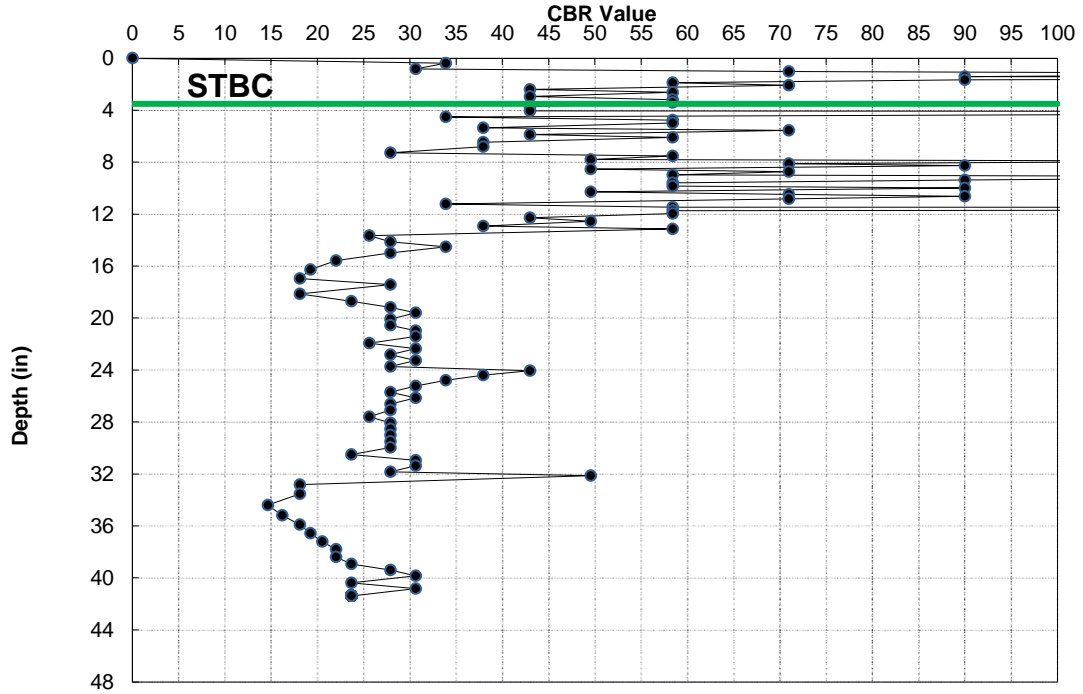
FILE	I2513AA_AB DCP Graphs 4
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C-76 Y Sta. 20+96 WB ISL (I) 1.8 FT RT FY

Datum = STBC
RAW
CUT
10/11/21

Interval	
0.0	to 3.4
# of Values	15
Avg CBR	75.9
Wghtd Avg.	60.6
Max CBR	100+
Min CBR	30.6

Interval	
3.4	to 41.4
# of Values	95
Avg CBR	46.3
Wghtd Avg.	33.4
Max CBR	100+
Min CBR	14.6

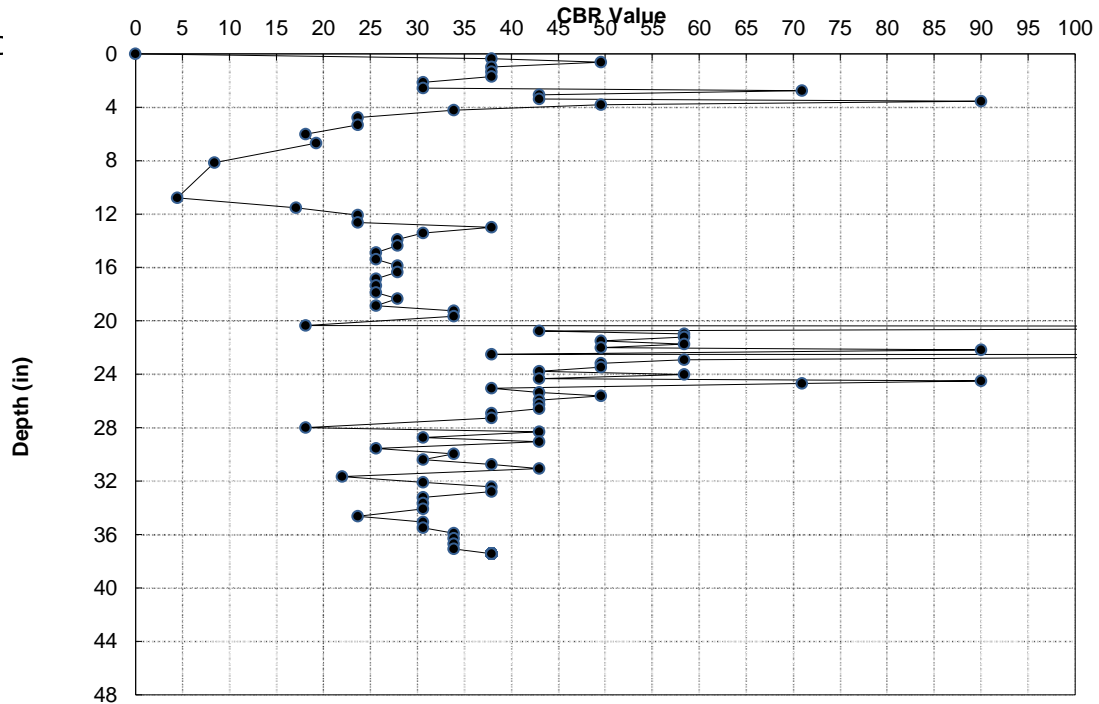


C-77 Y Sta. 20+96 WB ISS 2.3 FT LT FY

Datum = SHOULDER I
RAW
CUT
10/11/21

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

Interval	
0.0	to 37.4
# of Values	89
Avg CBR	44.2
Wghtd Avg.	31.6
Max CBR	100+
Min CBR	4.5



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

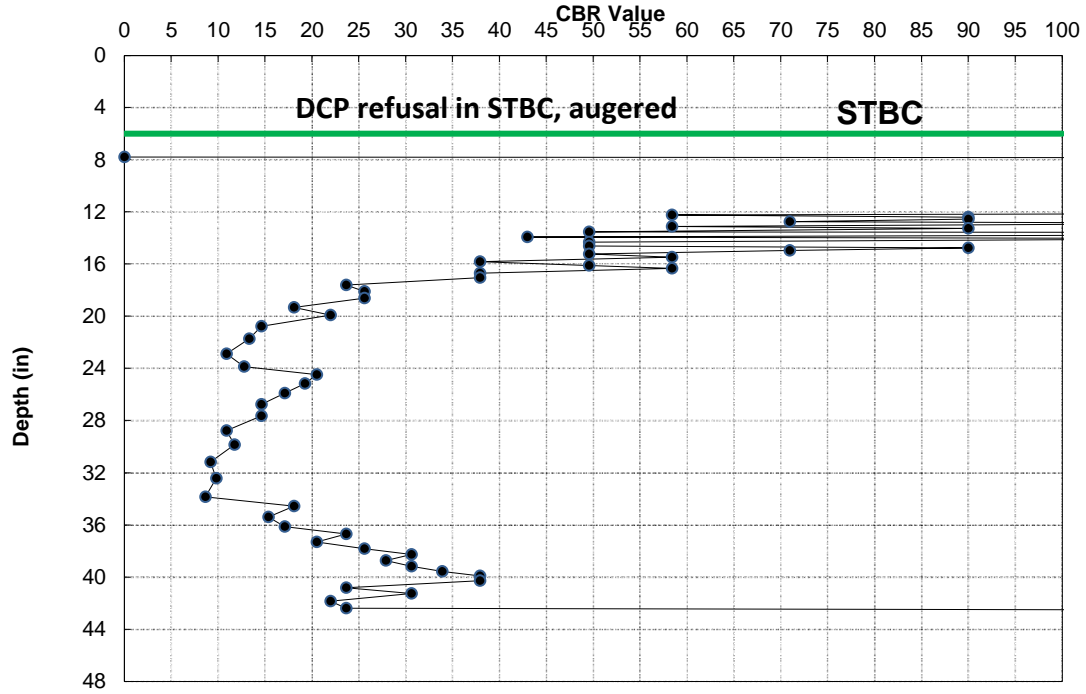
FILE	I2513AA_AB DCP Graphs 4
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C-78 Y Sta. 26+00 WB OSS 11.8 FT RT FW

Datum = STBC
RAW
CUT
10/11/21

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

Interval	
7.8	to 42.5
# of Values	100
Avg CBR	88.6
Wghtd Avg.	38.7
Max CBR	100+
Min CBR	8.6

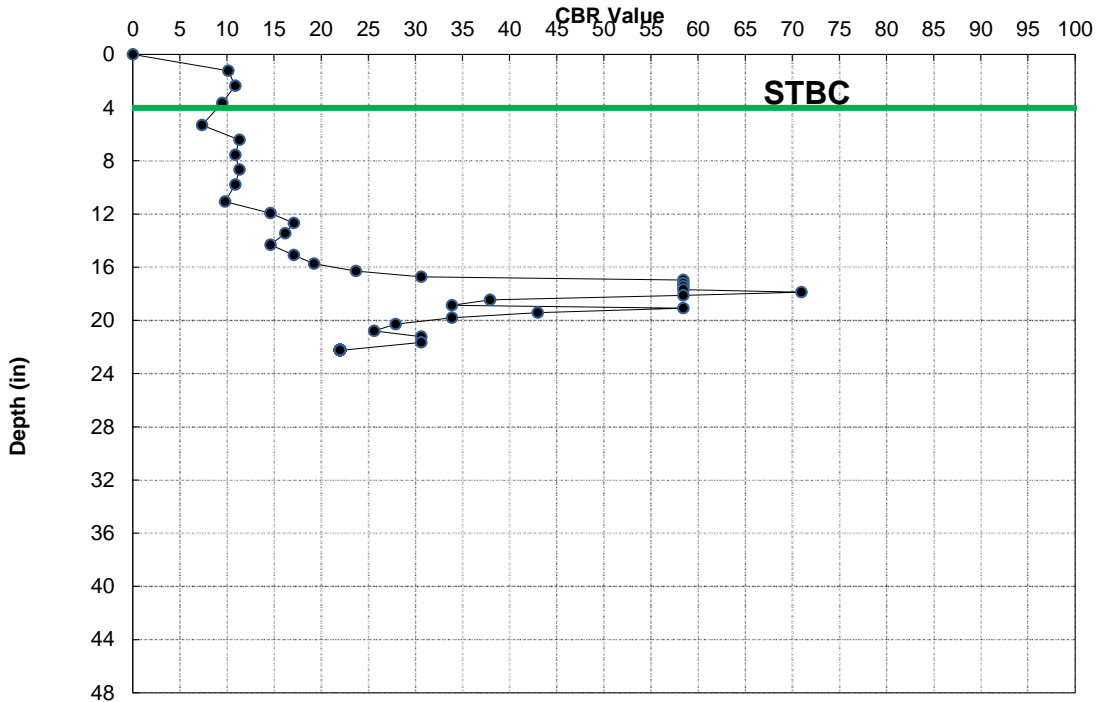


C-79 Y Sta. 28+56 WB MERGE LANE 2.0 FT LT FW

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 3.7
# of Values	3
Avg CBR	10.2
Wghtd Avg.	10.1
Max CBR	10.9
Min CBR	9.5

Interval	
3.7	to 22.2
# of Values	30
Avg CBR	30.7
Wghtd Avg.	20.9
Max CBR	70.9
Min CBR	7.3



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

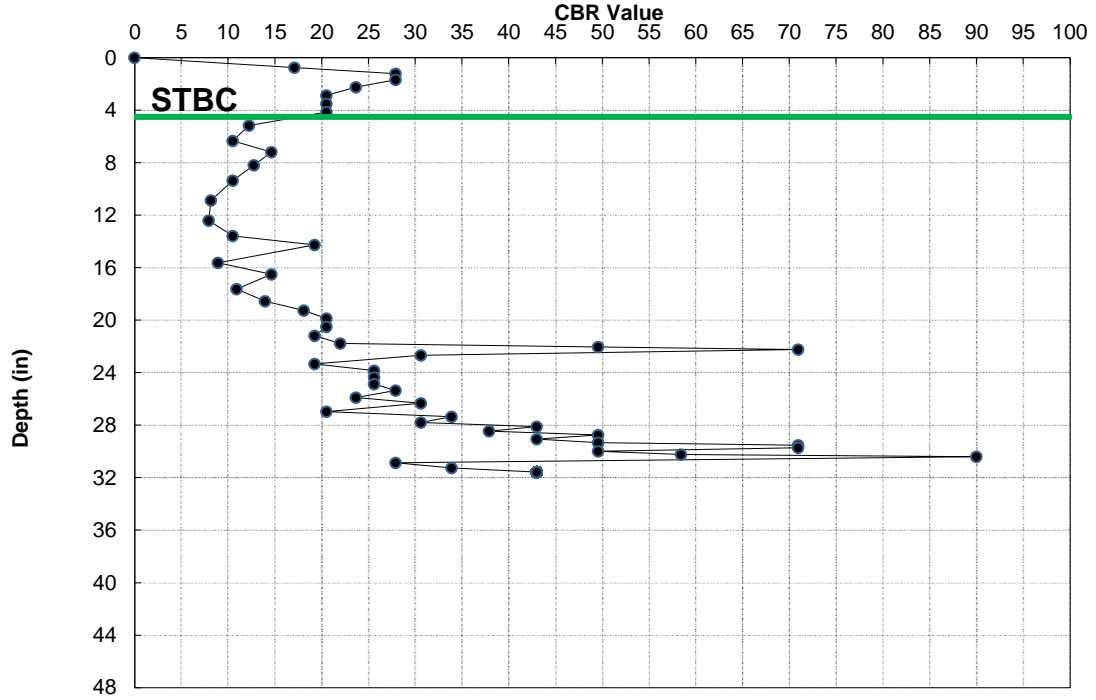
FILE	I2513AA_AB DCP Graphs 4
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C-80 Y Sta. 31+41 WB OSS 4.7 FT RT FW

Datum = SAND
RAW
FILL
10/11/21

Interval	
0.0	to 4.1
# of Values	7
Avg CBR	22.6
Wghtd Avg.	22.0
Max CBR	27.9
Min CBR	17.1

Interval	
4.1	to 31.6
# of Values	44
Avg CBR	30.4
Wghtd Avg.	20.8
Max CBR	90.0
Min CBR	7.9



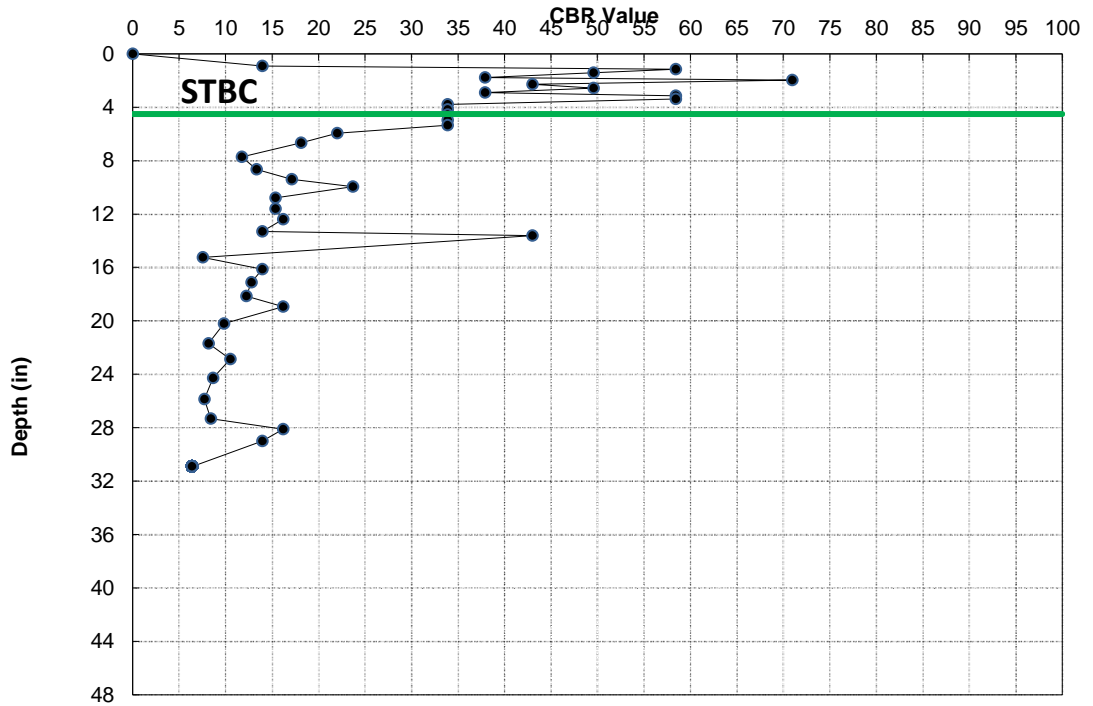
**CONE PENETROMETER RESULTS
NCDOT. GEOTECHNICAL ENGINEERING UNIT**

C-82 Y Sta. 37+45 WB OSS 9.5 FT RT FW

Datum = STBC
RAW
FILL
10/11/21

Interval 0.0 to 4.6	
# of Values	13
Avg CBR	44.6
Wghtd Avg.	38.3
Max CBR	70.9
Min CBR	13.9

Interval 4.6 to 30.9	
# of Values	27
Avg CBR	15.9
Wghtd Avg.	12.9
Max CBR	43.0
Min CBR	6.4

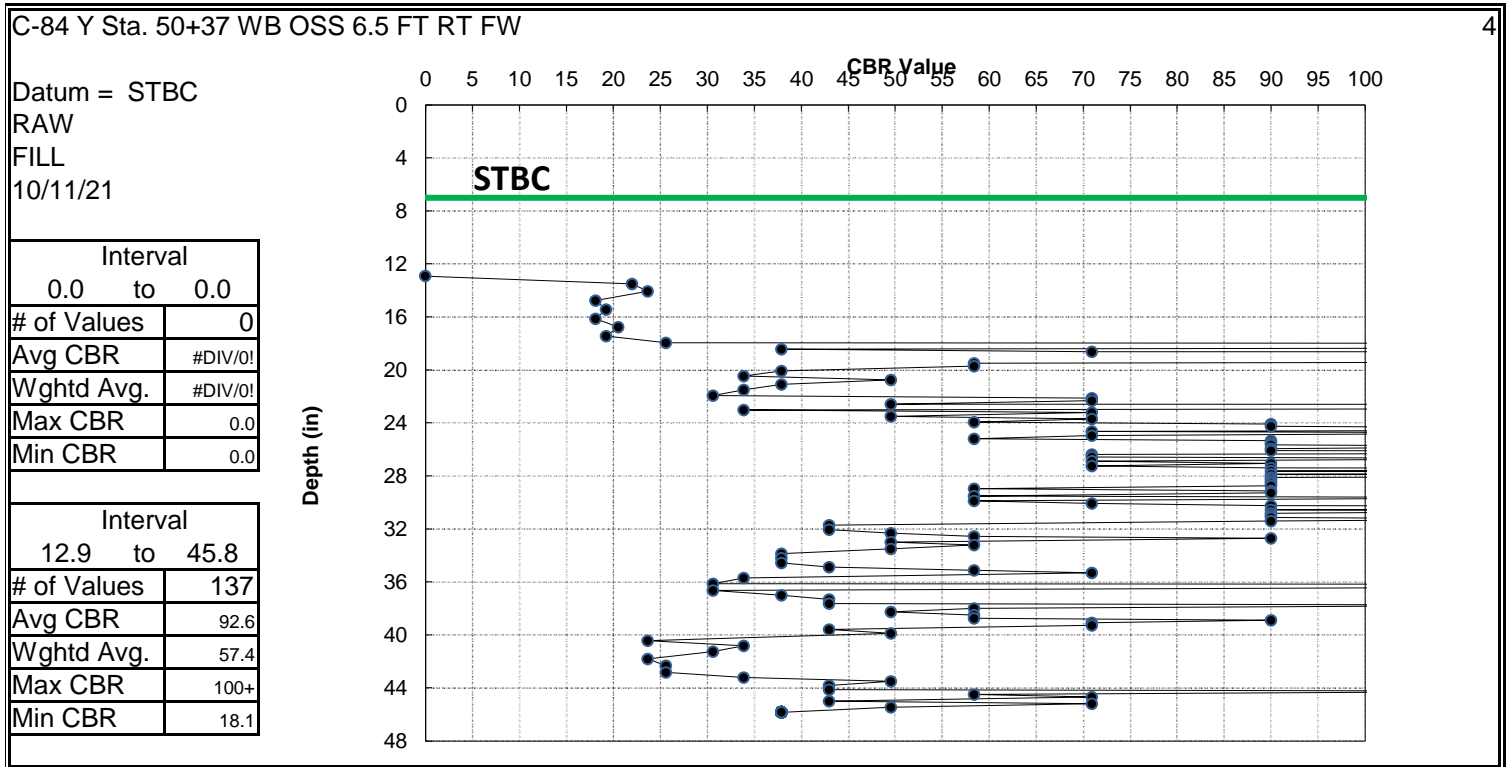
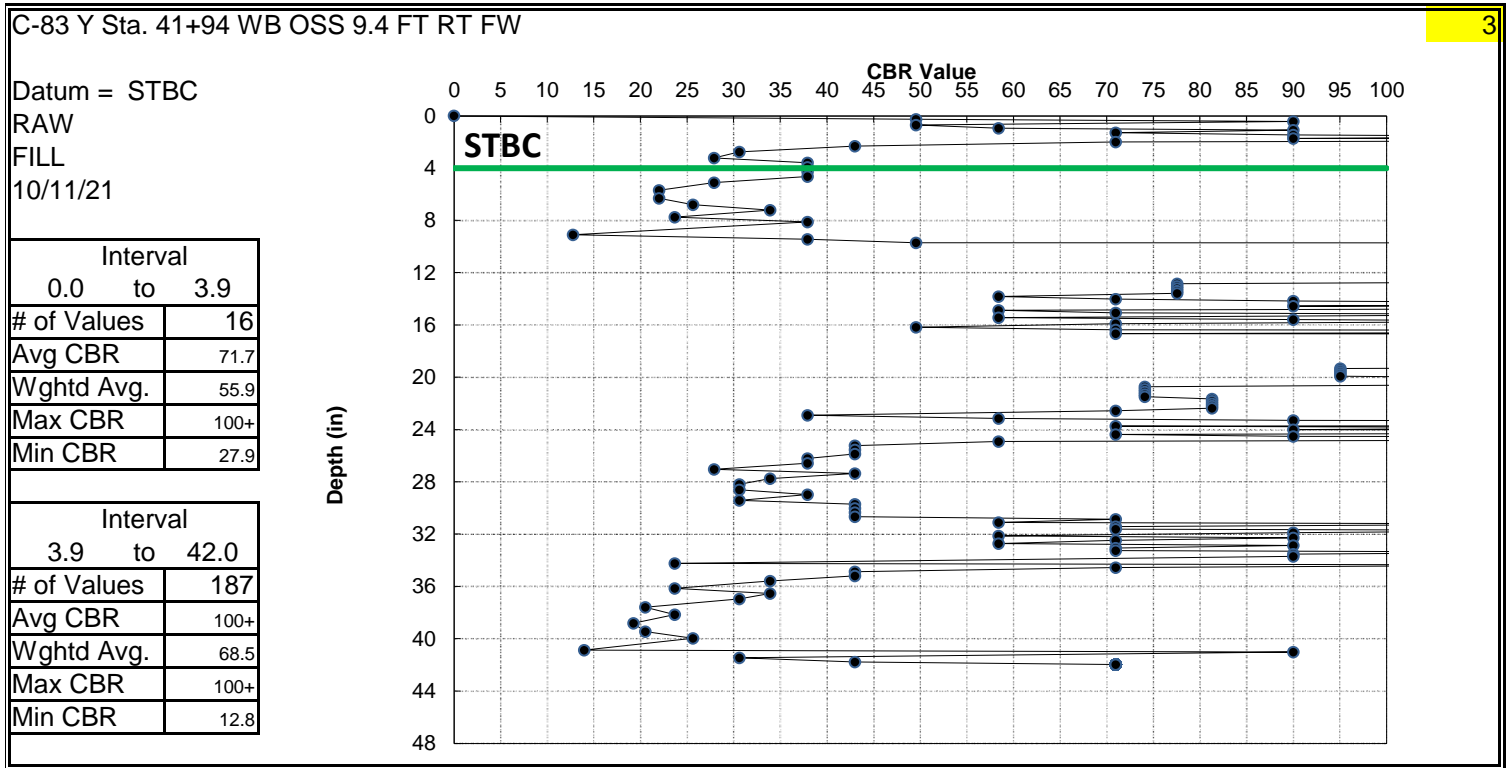


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 5
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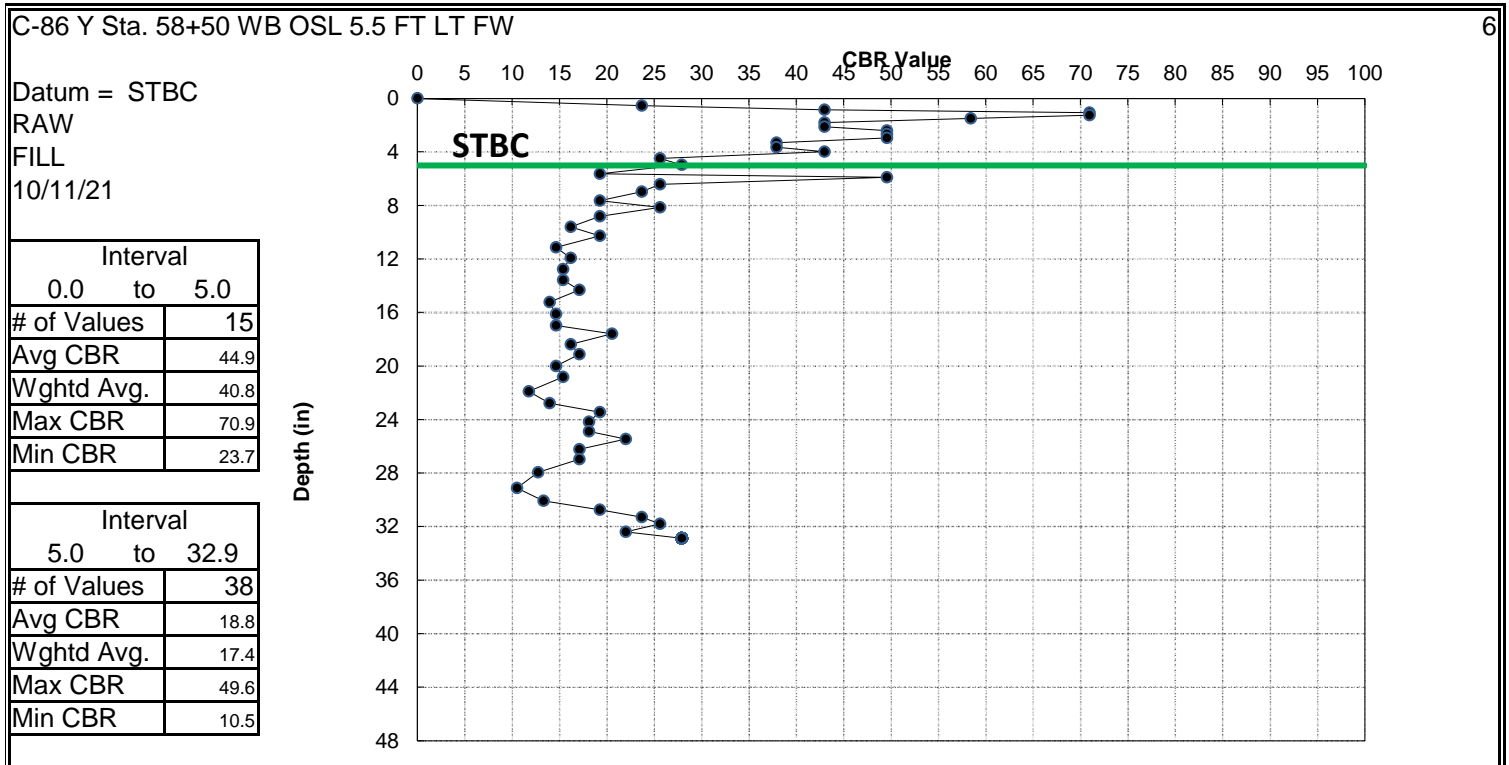
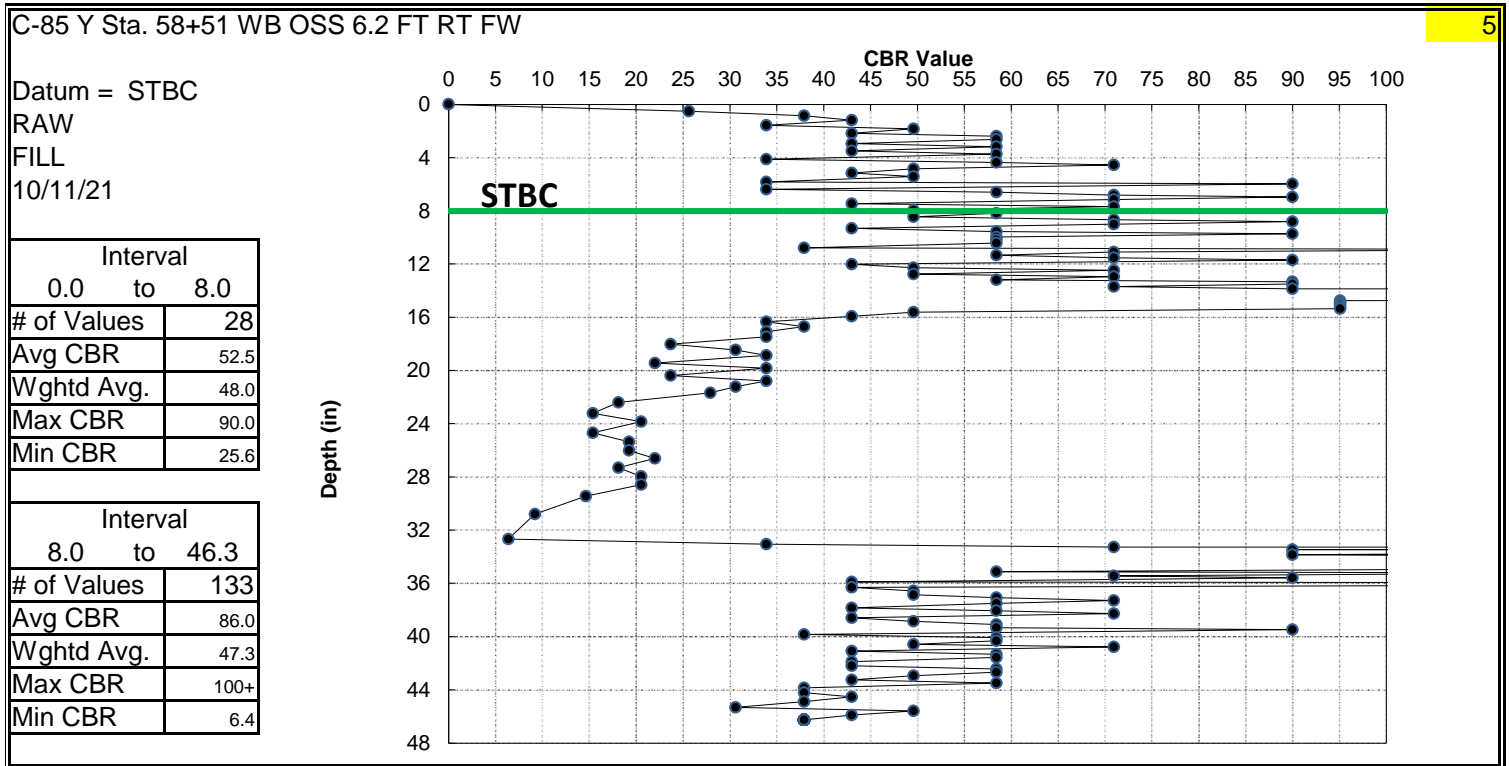


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 5
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**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 5
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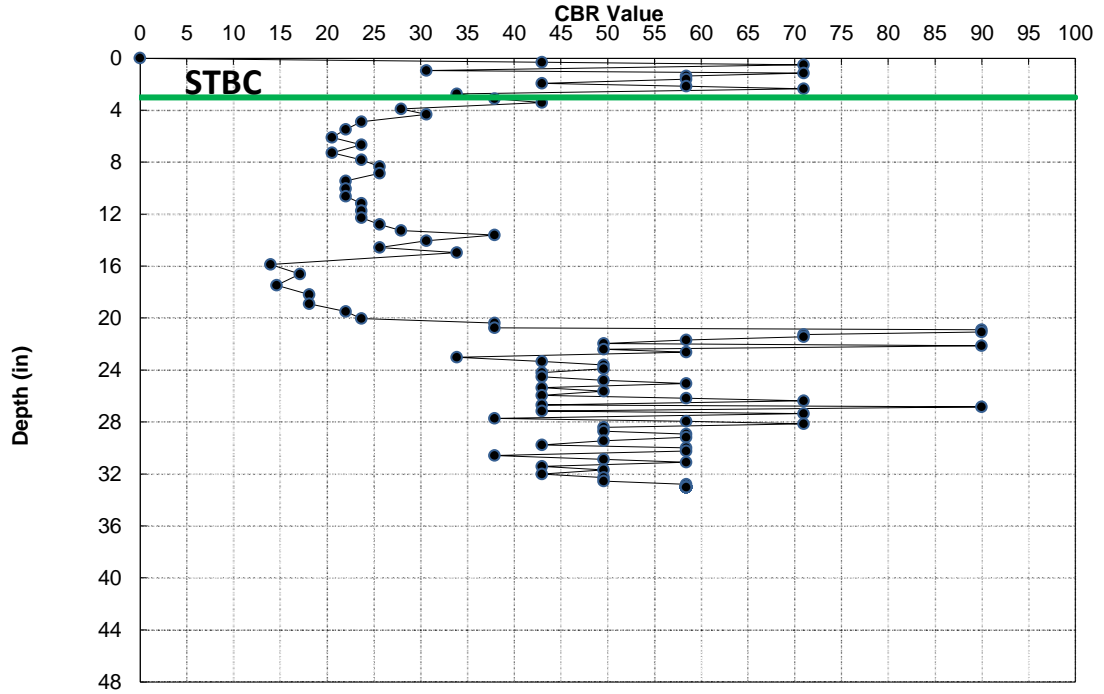
C-87 Y Sta. 58+51 WB OSML 15.5 FT LT FW

7

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 3.1
# of Values	11
Avg CBR	52.4
Wghtd Avg.	48.2
Max CBR	70.9
Min CBR	30.6

Interval	
3.1	to 33.0
# of Values	79
Avg CBR	43.1
Wghtd Avg.	35.3
Max CBR	90.0
Min CBR	13.9



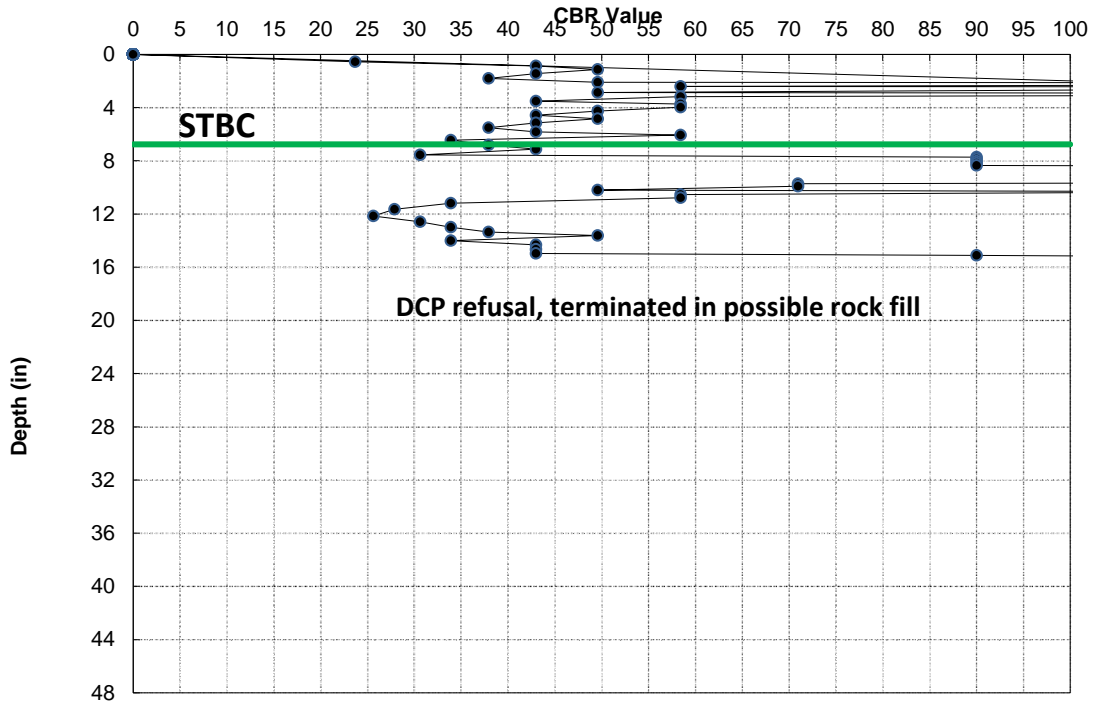
C-88 Y Sta. 63+40 WB OSS 6.6 FT RT FW

8

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 6.8
# of Values	25
Avg CBR	52.4
Wghtd Avg.	48.2
Max CBR	70.9
Min CBR	30.6

Interval	
6.8	to #####
# of Values	139
Avg CBR	#VALUE!
Wghtd Avg.	#VALUE!
Max CBR	#VALUE!
Min CBR	#VALUE!



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

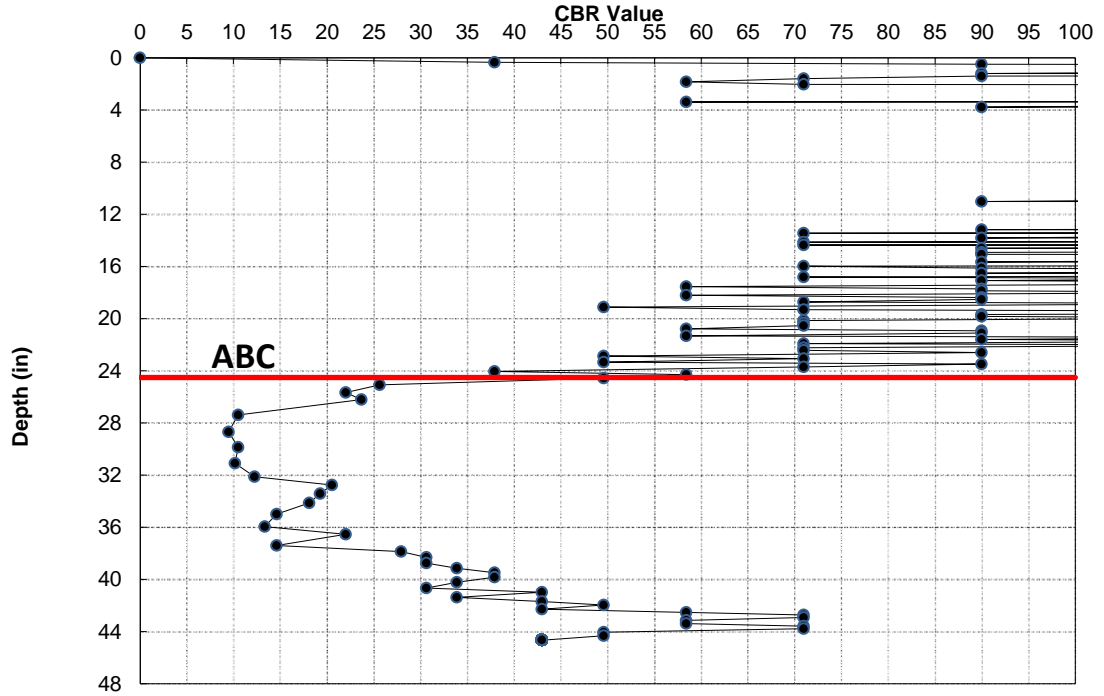
FILE	I2513AA_AB DCP Graphs 5
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C-89 Y Sta. 68+54 WB OSS 5.5 FT RT FW

Datum = ABC
RAW
FILL
10/11/21

Interval	
0.0	to 24.6
# of Values	252
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	37.9

Interval	
24.6	to 44.6
# of Values	38
Avg CBR	34.8
Wghtd Avg.	24.8
Max CBR	70.9
Min CBR	9.5

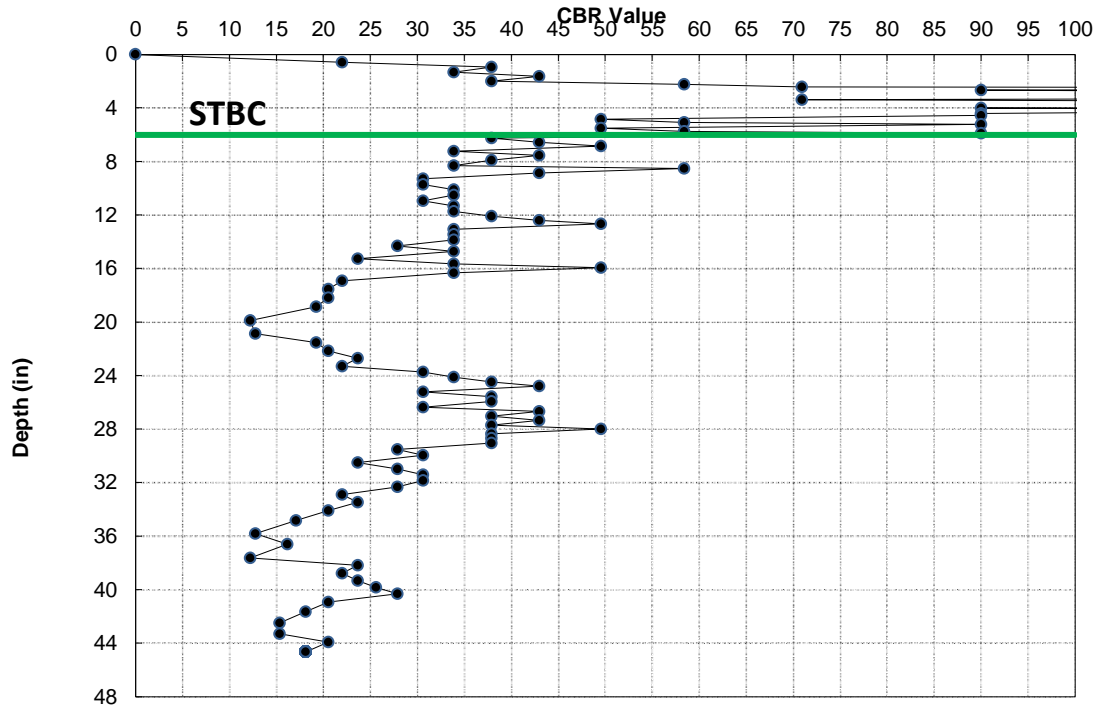


C-90 Y Sta. 75+02 WB OSS 6.0 FT RT FW

Datum = STBC
RAW
FILL
10/11/2021

Interval	
0.0	to 5.9
# of Values	31
Avg CBR	100+
Wghtd Avg.	73.5
Max CBR	100+
Min CBR	22.0

Interval	
5.9	to 44.6
# of Values	79
Avg CBR	30.3
Wghtd Avg.	26.8
Max CBR	58.4
Min CBR	12.2



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

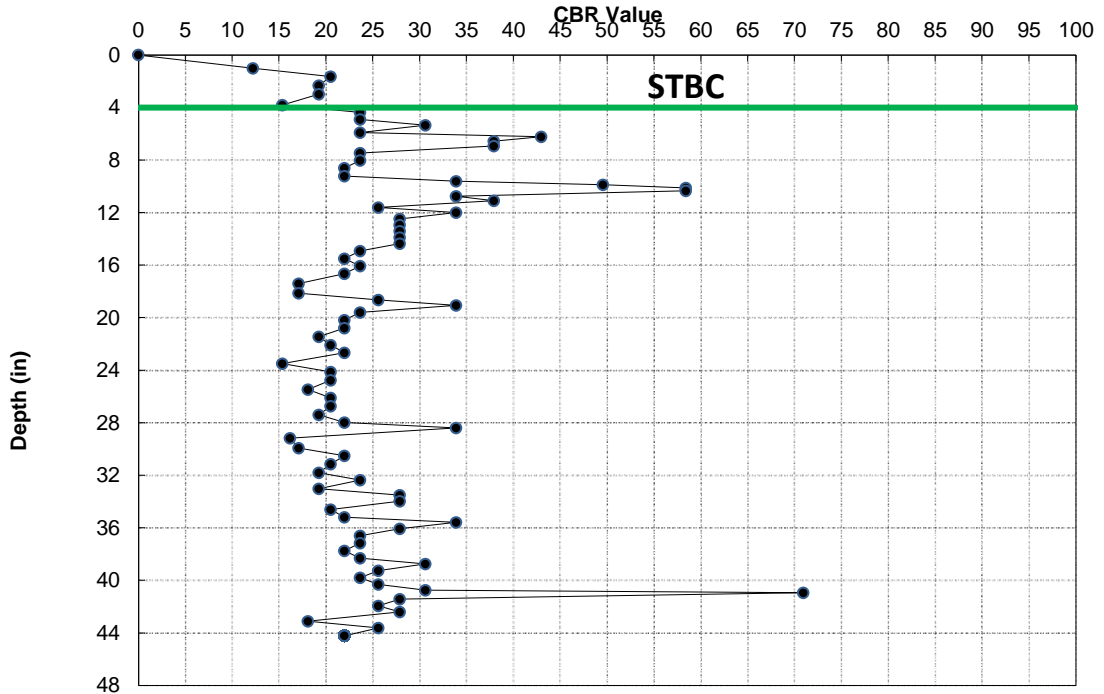
FILE	I2513AA_AB DCP Graphs 5
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C-91 Y Sta. 80+09 WB OSS 6.0 FT RT FW **11**

Datum = STBC
RAW
CUT
10/11/21

Interval 0.0 to 3.8	
# of Values	5
Avg CBR	17.3
Wghtd Avg.	16.7
Max CBR	20.5
Min CBR	12.2

Interval 3.8 to 44.2	
# of Values	76
Avg CBR	26.8
Wghtd Avg.	24.6
Max CBR	70.9
Min CBR	15.4

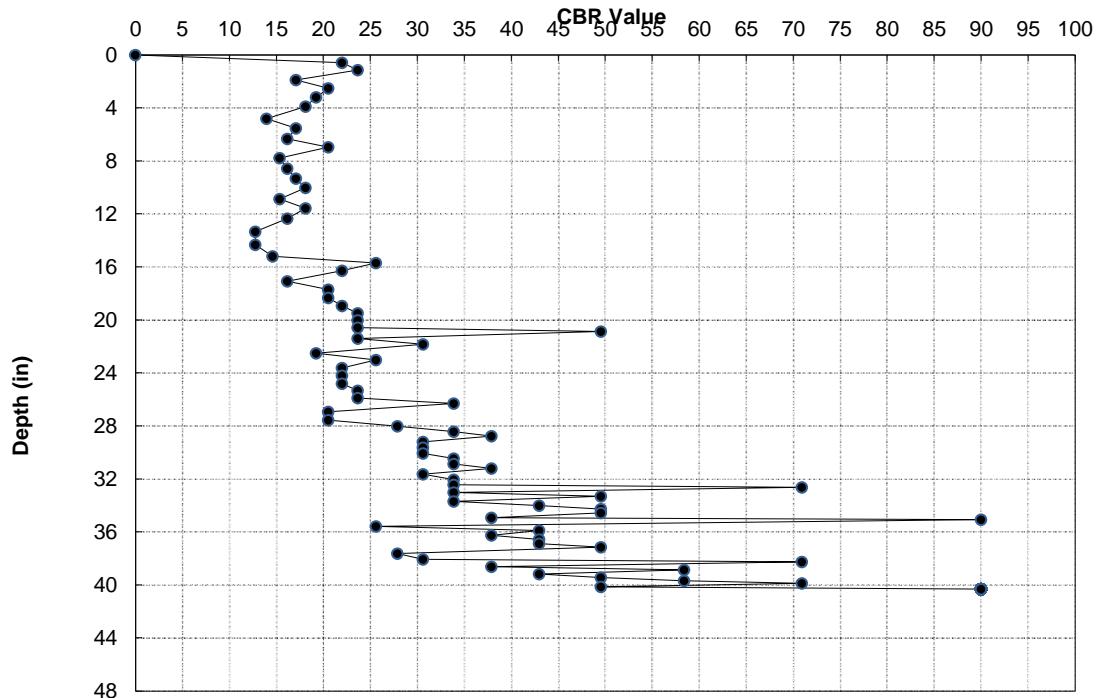


C-92 Y Sta. 85+47 WB OSS 5.8 FT RT FW **12**

Datum = CSS
RAW
CUT
10/11/21

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

Interval 0.0 to 40.3	
# of Values	80
Avg CBR	32.0
Wghtd Avg.	26.0
Max CBR	90.0
Min CBR	12.8



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

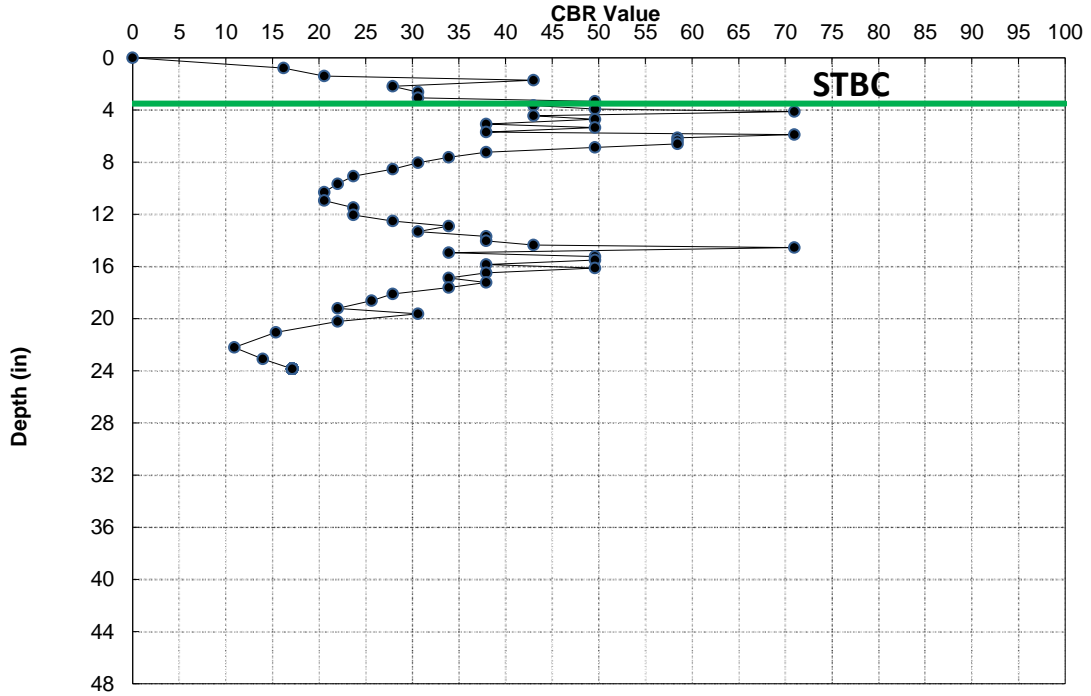
FILE	I2513AA_AB DCP Graphs 5
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C-93 Y Sta. 88+85 WB OSS 6.3 FT RT FW

Datum = STBC
RAW
FILL
10/11/21

Interval 0.0 to 3.7	
# of Values	8
Avg CBR	32.7
Wghtd Avg.	28.9
Max CBR	49.6
Min CBR	16.2

Interval 3.7 to 23.9	
# of Values	47
Avg CBR	36.8
Wghtd Avg.	30.9
Max CBR	70.9
Min CBR	10.9

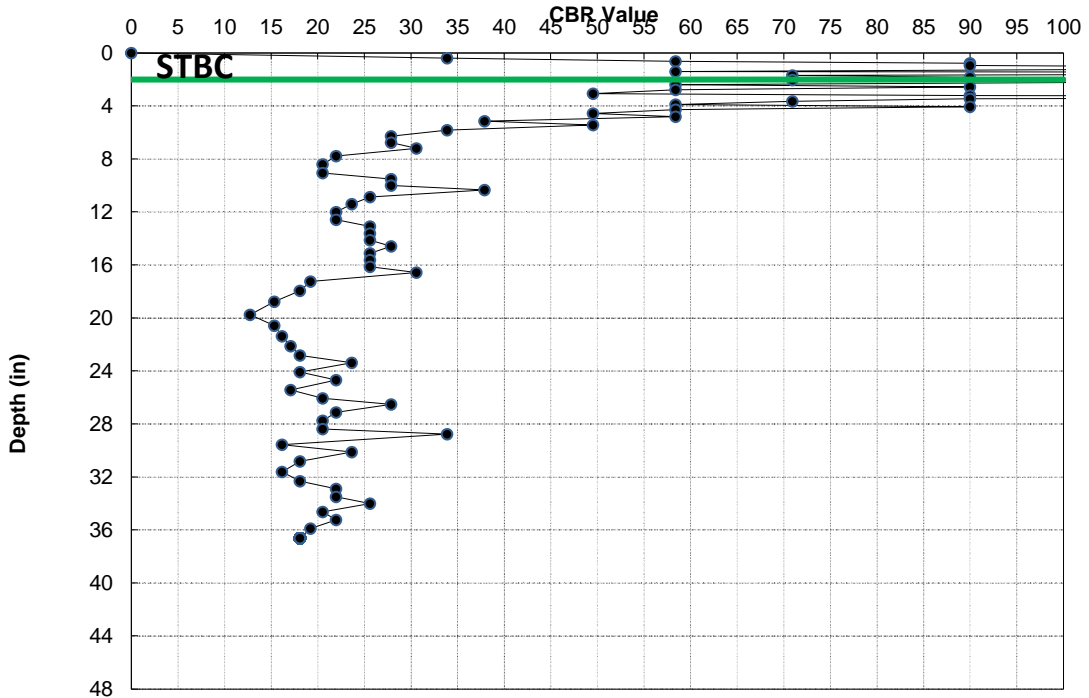


C-94 Y Sta. 88+74 WB OSL 5.7 FT LT FW

Datum = STBC
RAW
FILL
10/11/21

Interval 0.0 to 2.0	
# of Values	11
Avg CBR	90.5
Wghtd Avg.	75.3
Max CBR	100+
Min CBR	33.9

Interval 2.0 to 36.6	
# of Values	68
Avg CBR	35.3
Wghtd Avg.	25.8
Max CBR	100+
Min CBR	12.8



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

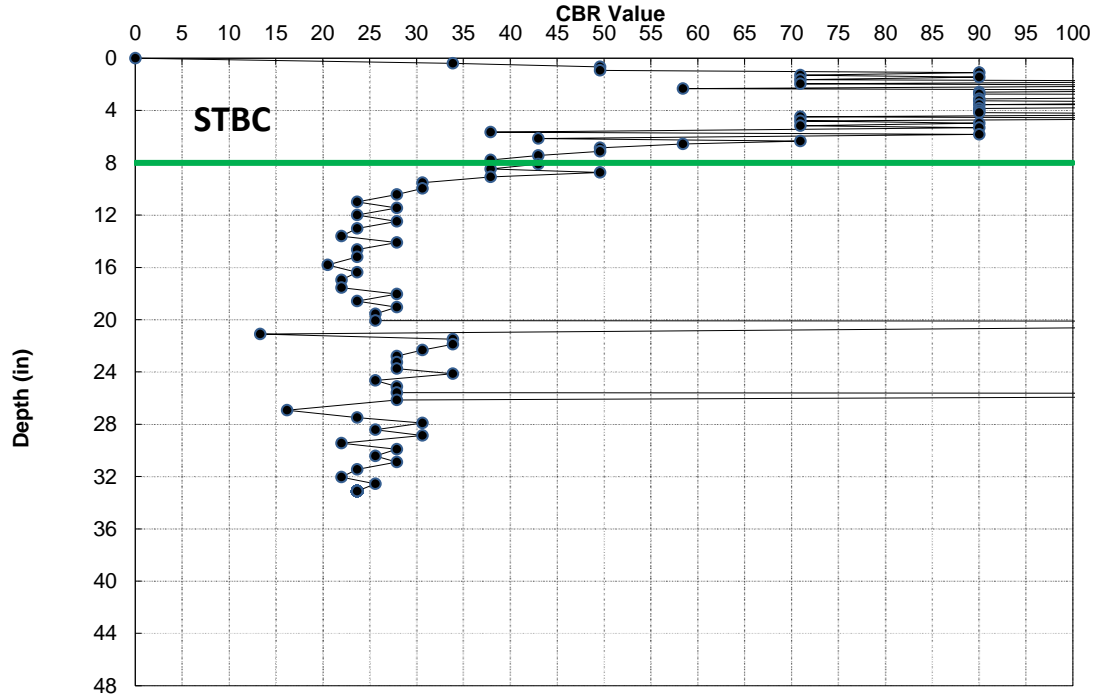
FILE	I2513AA_AB DCP Graphs 5
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C-96 Y Sta. 88+75 WB ISL 2.4 FT RT FY

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 8.1
# of Values	42
Avg CBR	90.0
Wghtd Avg.	72.4
Max CBR	100+
Min CBR	33.9

Interval	
8.1	to 33.1
# of Values	51
Avg CBR	33.3
Wghtd Avg.	26.8
Max CBR	100+
Min CBR	13.3

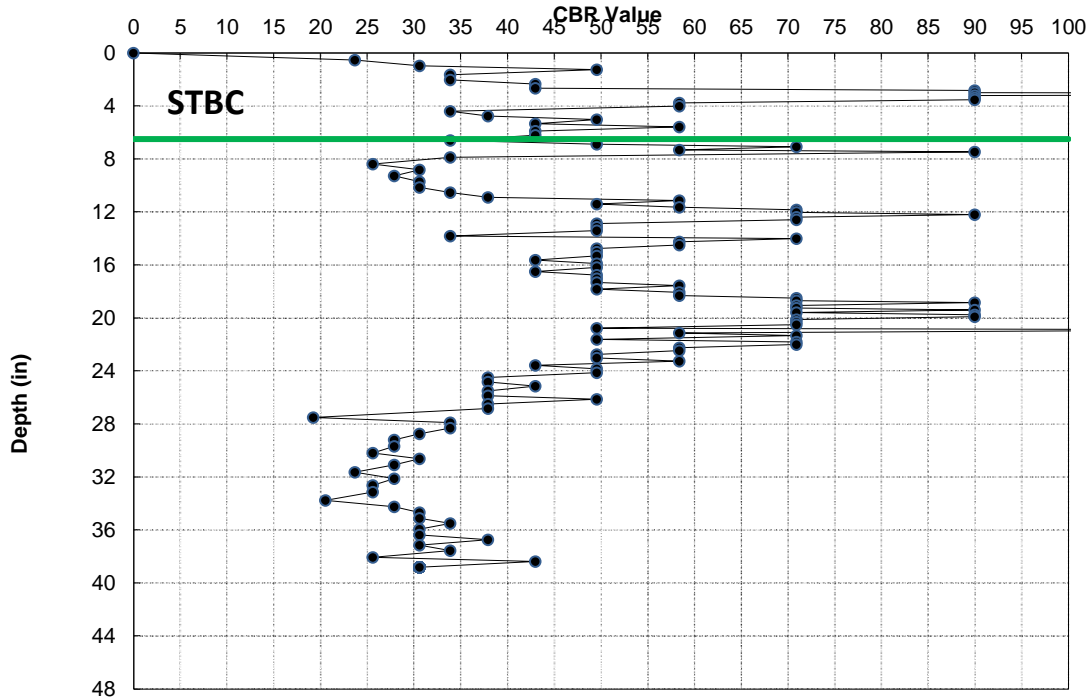


C-97 Y Sta. 88+75 WB ISS 3.7 FT LT FY

Datum = STBC
RAW
FILL
10/11/21

Interval	
0.0	to 6.6
# of Values	23
Avg CBR	58.9
Wghtd Avg.	47.4
Max CBR	100+
Min CBR	23.7

Interval	
6.6	to 38.8
# of Values	102
Avg CBR	49.6
Wghtd Avg.	42.9
Max CBR	100+
Min CBR	19.2

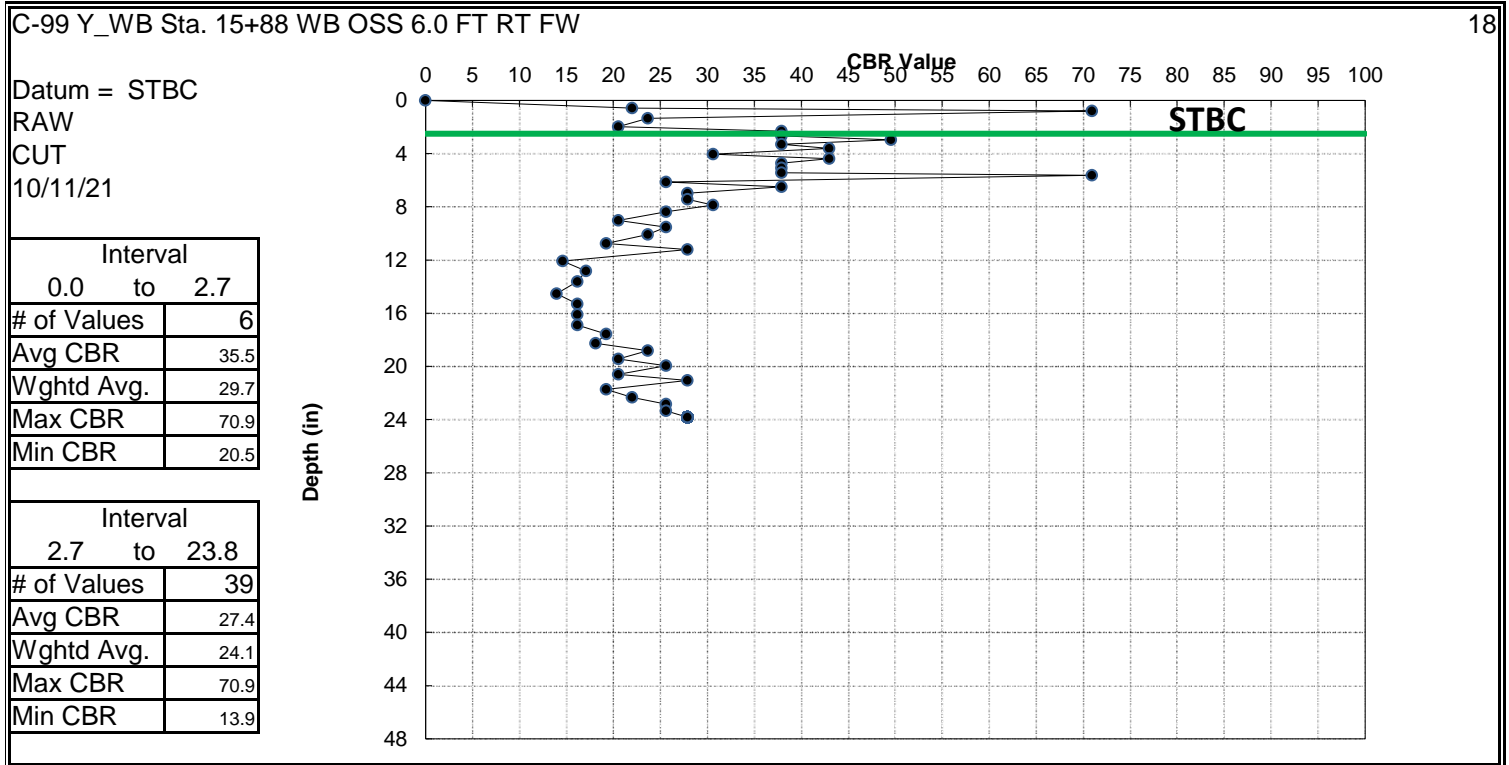
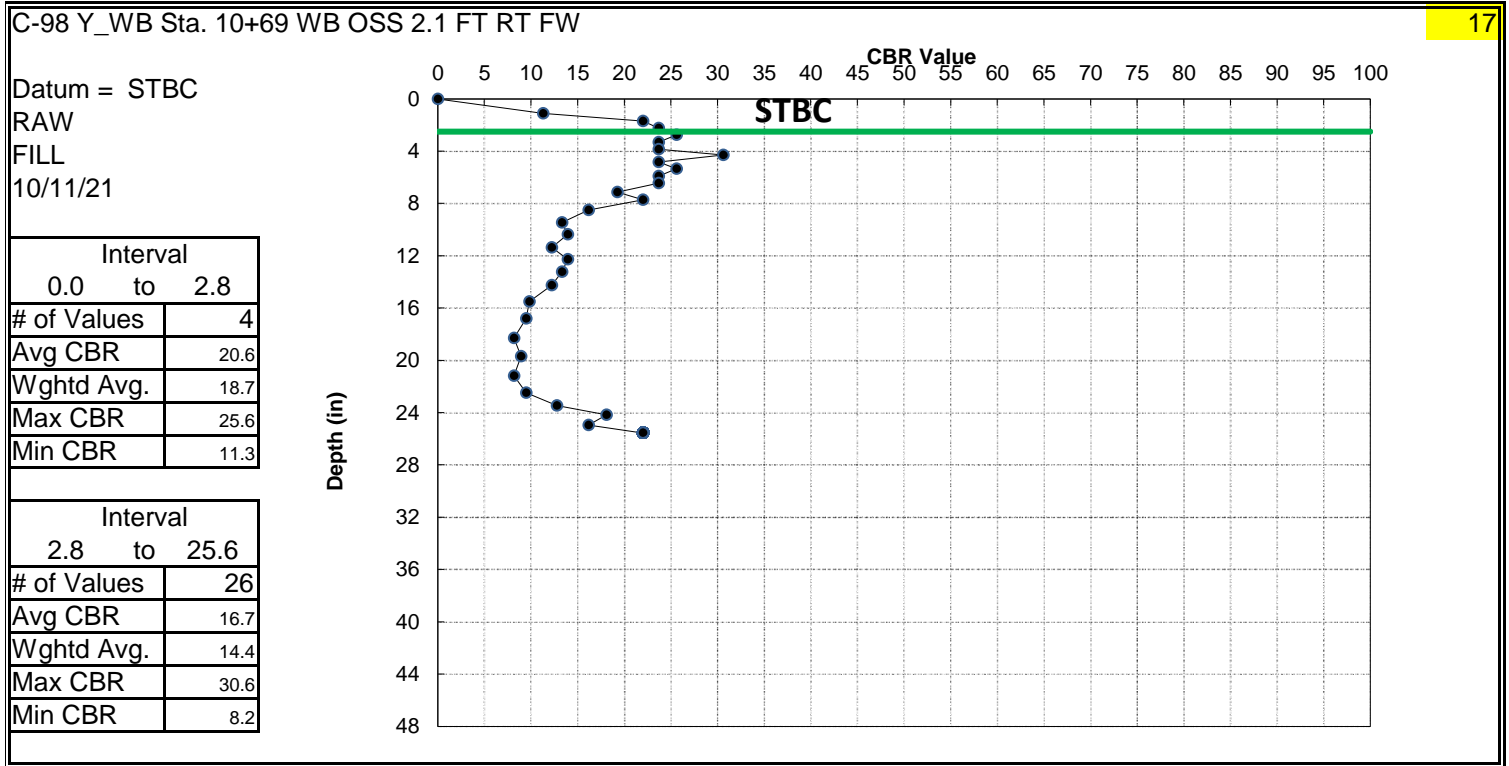


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 5
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**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

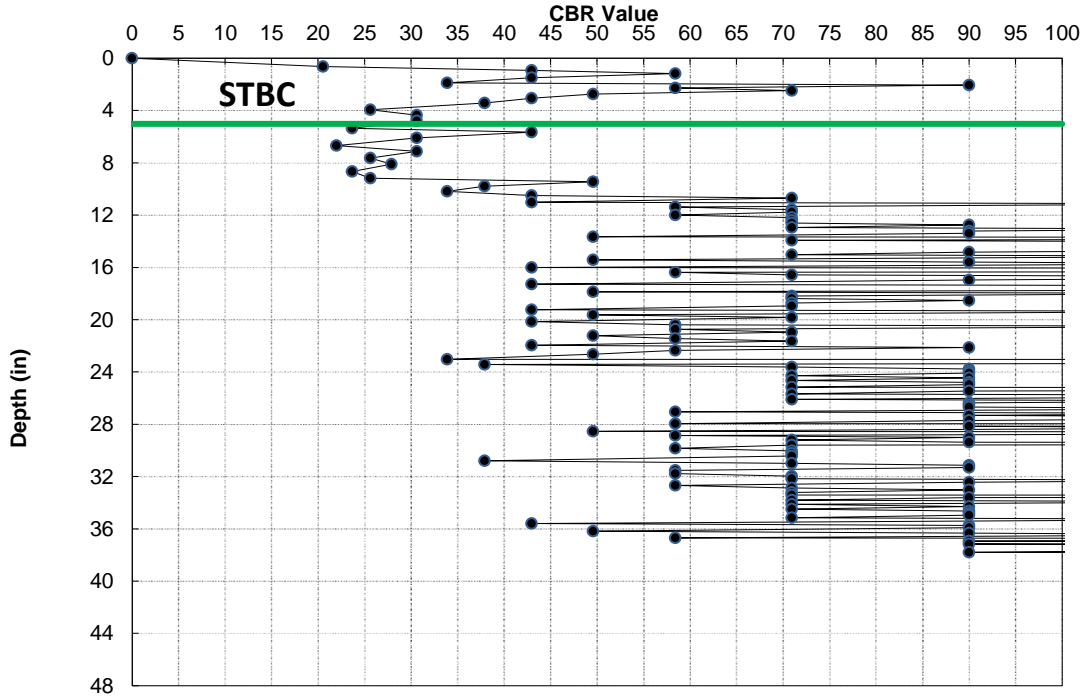
FILE	I2513AA_AB DCP Graphs 5
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C-100 Y_WB Sta. 15+88 WB ISS 1.5 FT LT FY

Datum = STBC
RAW
CUT
10/11/21

Interval	
0.0	to 4.8
# of Values	14
Avg CBR	45.4
Wghtd Avg.	39.2
Max CBR	90.0
Min CBR	20.5

Interval	
4.8	to 38.0
# of Values	171
Avg CBR	96.5
Wghtd Avg.	72.1
Max CBR	100+
Min CBR	22.0

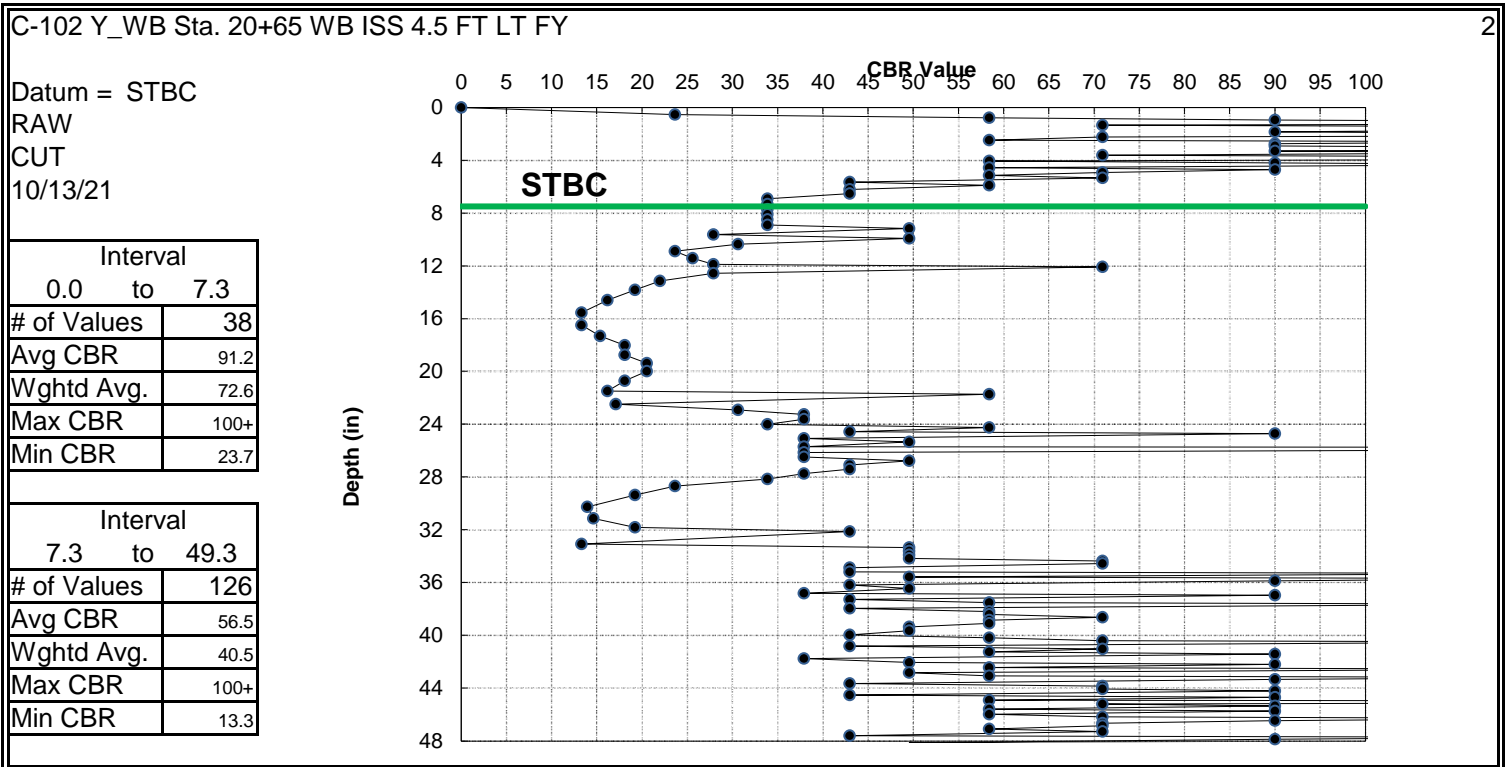
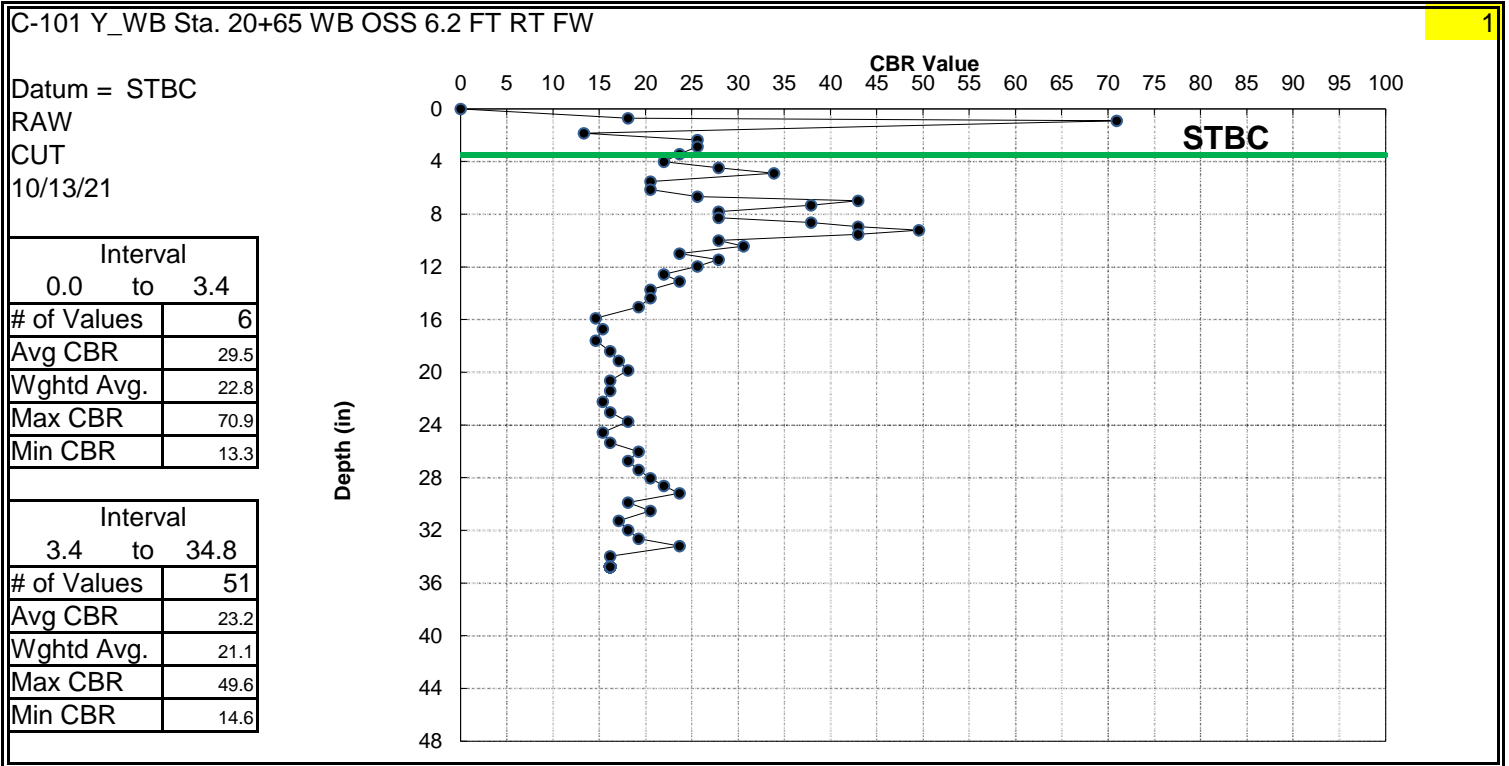


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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C-103 Y_WB Sta. 27+11 WB OSS 6.0 FT RT FW

Datum = STBC

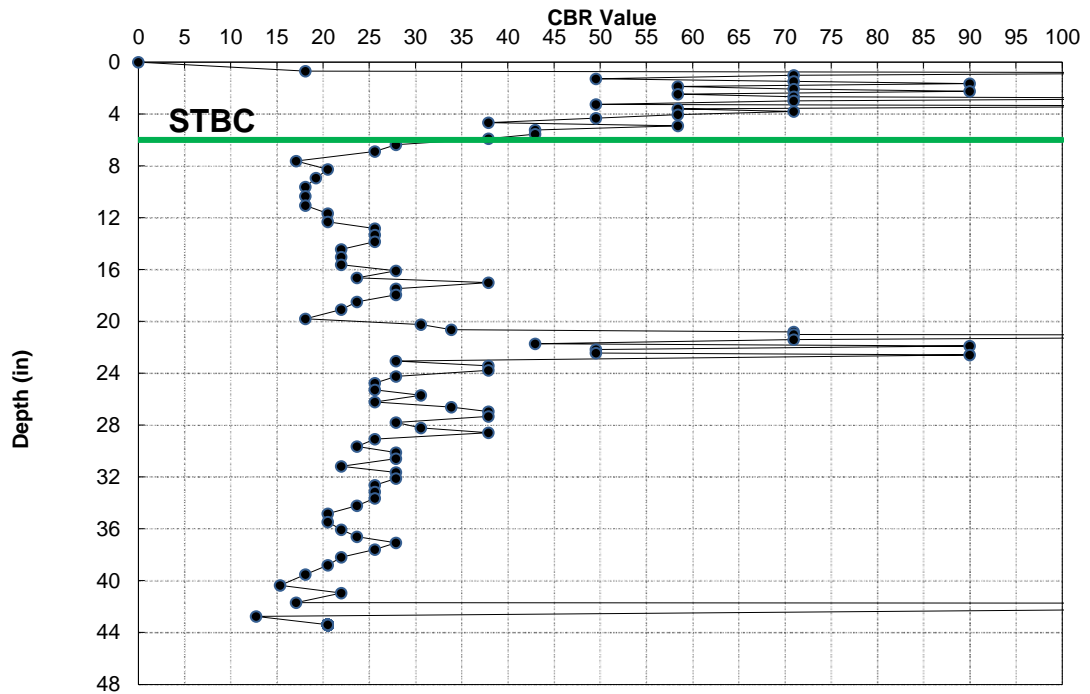
RAW

FILL

10/13/21

Interval	
0.0	to 5.9
# of Values	24
Avg CBR	66.4
Wghtd Avg.	55.9
Max CBR	100+
Min CBR	18.1

Interval	
5.9	to 43.4
# of Values	76
Avg CBR	35.2
Wghtd Avg.	26.7
Max CBR	100+
Min CBR	12.8



C-104 Y_WB Sta. 27+12 WB OSL 1.6 FT LT FW

Datum = STBC

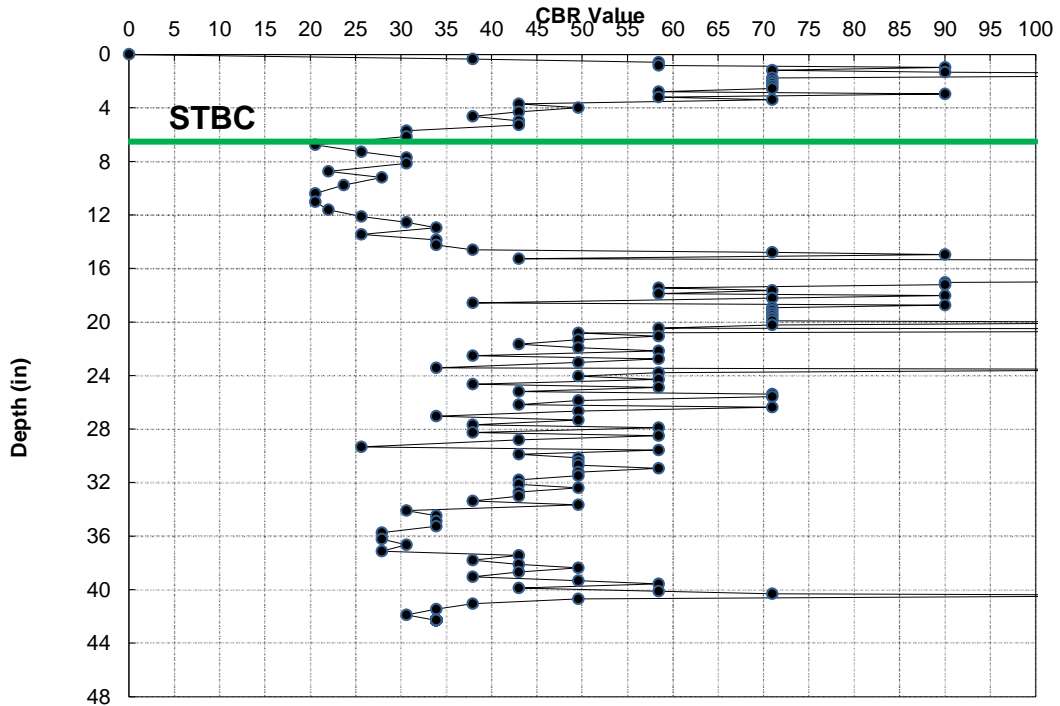
RAW

FILL

10/13/21

Interval	
0.0	to 6.1
# of Values	25
Avg CBR	64.1
Wghtd Avg.	56.0
Max CBR	100+
Min CBR	30.6

Interval	
6.1	to 42.3
# of Values	126
Avg CBR	63.2
Wghtd Avg.	47.5
Max CBR	100+
Min CBR	20.5

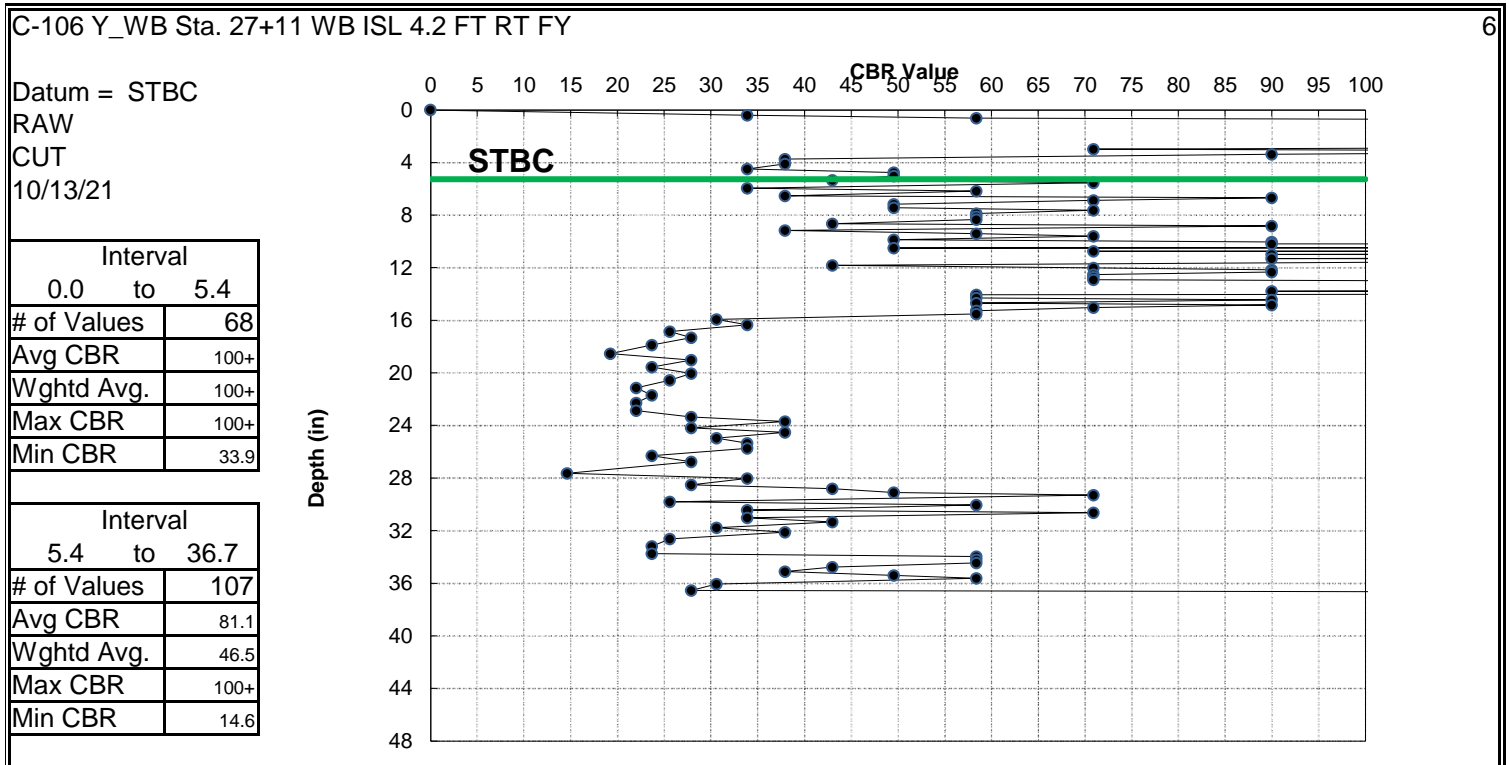
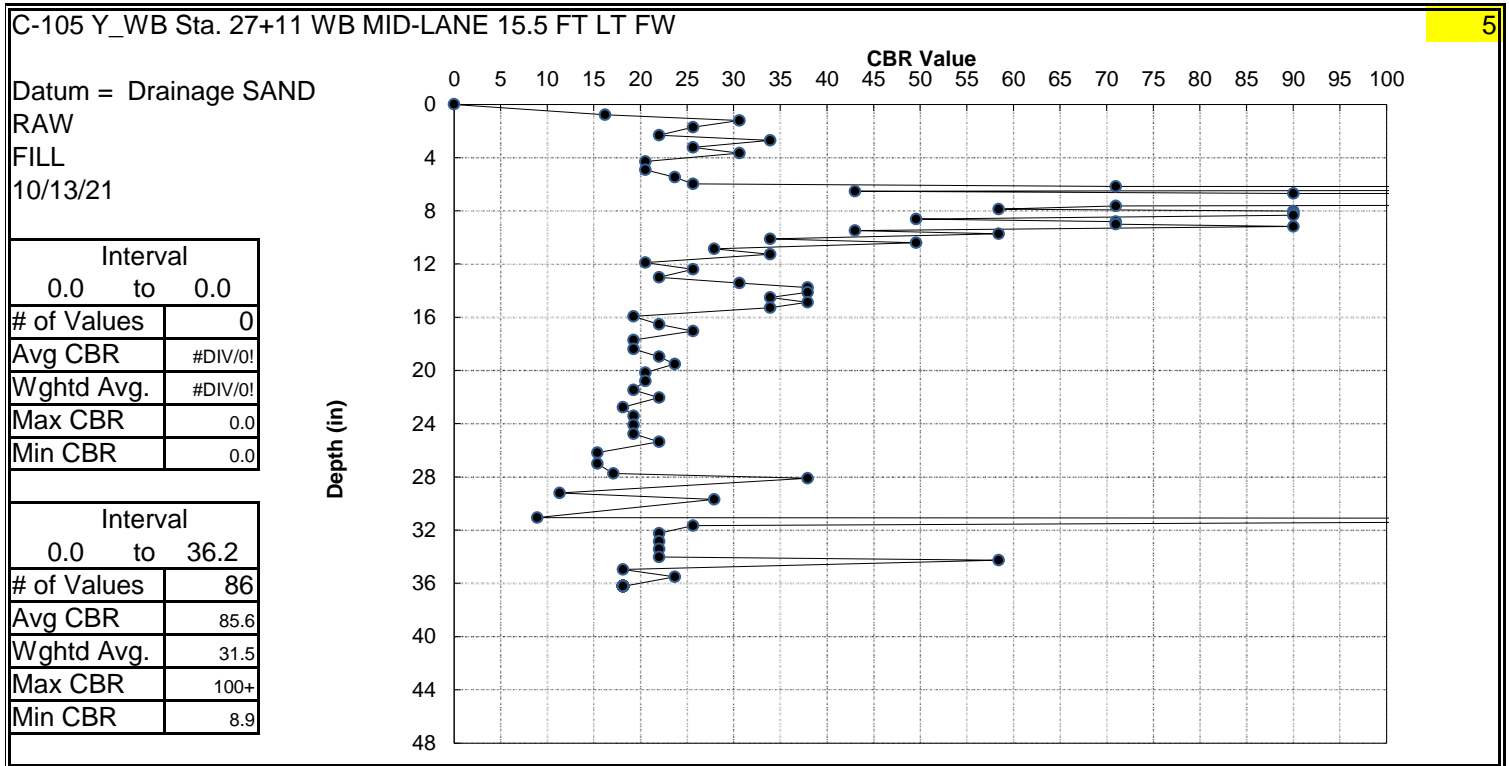


**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

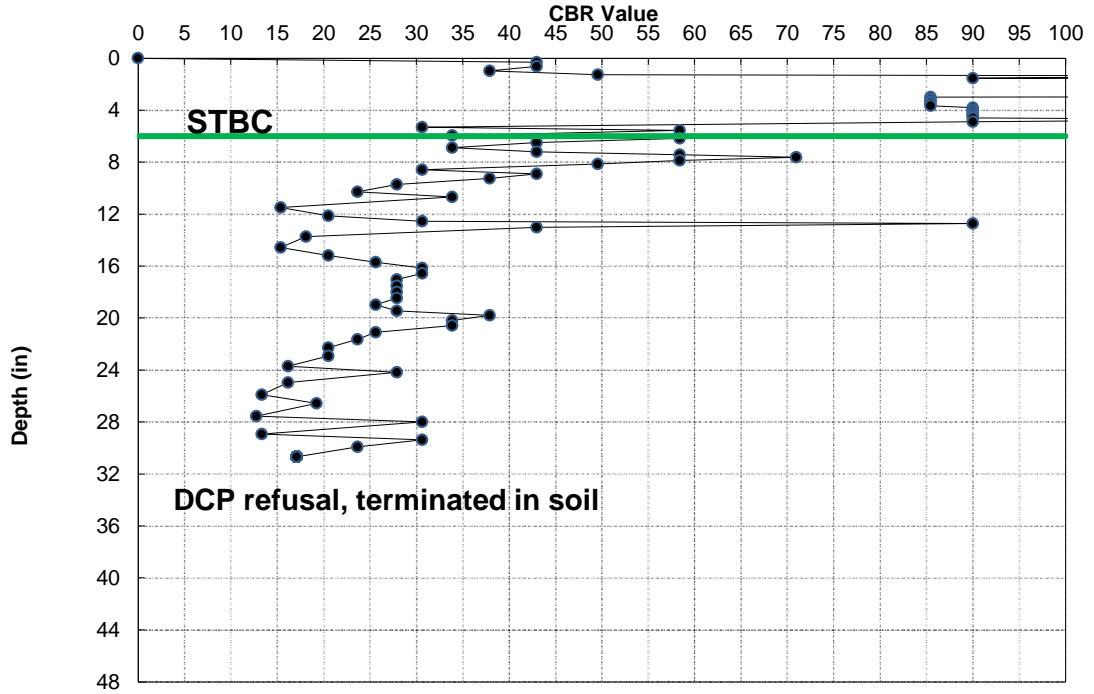
FILE	I2513AA_AB DCP Graphs 4
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C-107 Y_WB Sta. 27+12 WB ISS 1.7 FT LT FY

Datum = STBC
RAW
CUT
10/13/21

Interval	
0.0	to 5.9
# of Values	46
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	30.6

Interval	
5.9	to 30.7
# of Values	49
Avg CBR	31.3
Wghtd Avg.	26.0
Max CBR	90.0
Min CBR	12.8

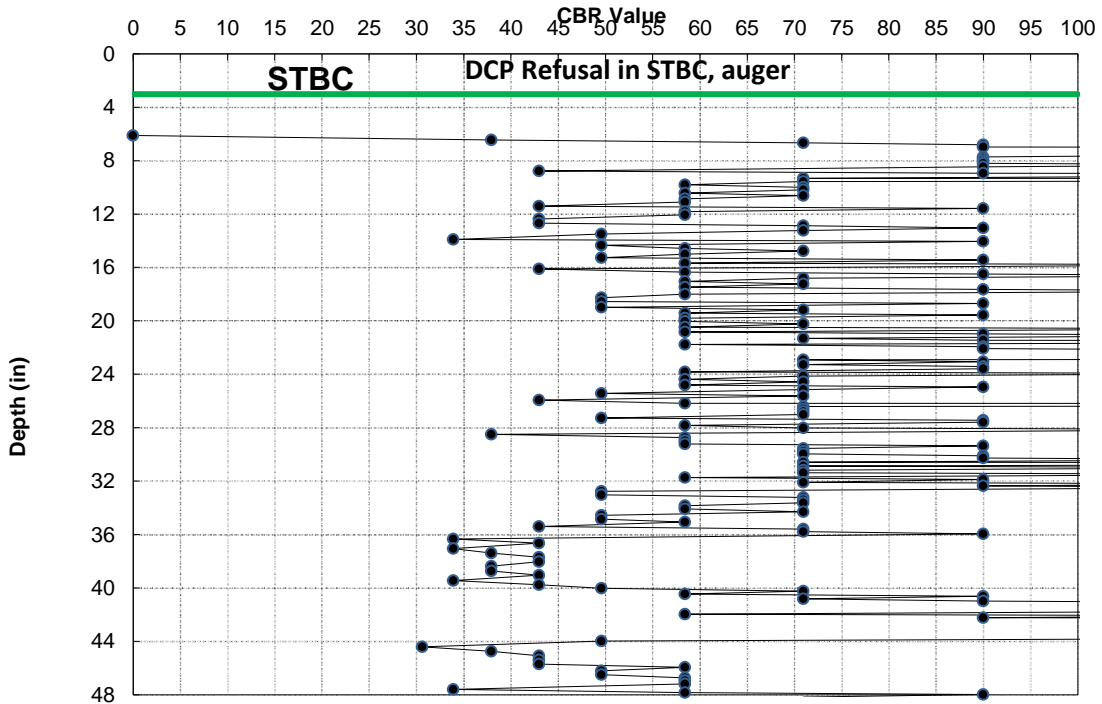


C-108 Y_WB Sta. 32+51 WB OSS 6.0 FT RT FW

Datum = STBC
RAW
CUT
10/13/21

Interval	
0.0	to 0.0
# of Values	0
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	30.6

Interval	
6.1	to 50.4
# of Values	232
Avg CBR	96.0
Wghtd Avg.	73.2
Max CBR	100+
Min CBR	30.6



**CONE PENETROMETER RESULTS
NCDOT, GEOTECHNICAL ENGINEERING UNIT**

PROJECT NO.	34165.1.6
PROJECT ID	I-2513 AA/AB
ROUTE	I-26 FROM I-40 TO SR 3548
COUNTY	BUNCOMBE

GEOLOGIST	L. M. Howard
GEOTECHS	CG2

FILE	I2513AA_AB DCP Graphs 4
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C-109 Y_WB Sta. 32+52 WB ISS 1.5 FT LT FY

Datum = STBC
RAW
CUT
10/13/21

Interval	
0.0	to 6.0
# of Values	13
Avg CBR	50.8
Wghtd Avg.	28.5
Max CBR	100+
Min CBR	14.6

Interval	
6.0	to 22.5
# of Values	191
Avg CBR	100+
Wghtd Avg.	100+
Max CBR	100+
Min CBR	49.6

