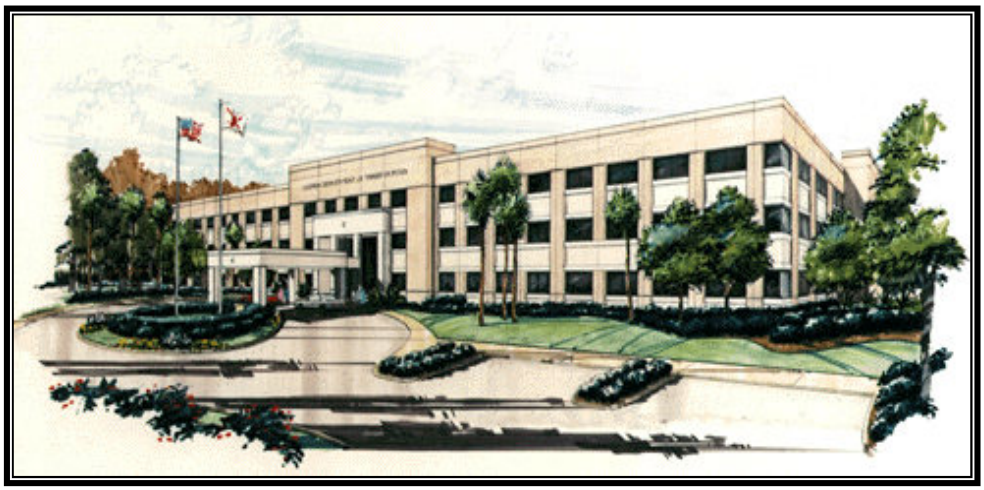


DISTRICT ONE DESIGN

PAVEMENT DESIGN

FOR

444008-1-52-01

Collier County

SR 93 (I-75)
From Broward County Line to Toll Booth in Collier County
M.P. 0.063
to
M.P. 49.282

Sean Pugh, PE
Design Project Manager

PAVEMENT DESIGN PACKAGE

FINANCIAL PROJECT ID :	**444008-1-52-01**
WPI NO.:	**N/A**
STATE PROJECT NO.:	**N/A**
COUNTY SECTION NO.:	**03175**
FEDERAL AID PROJECT NO.:	**N/A**
COUNTY:	**Collier**
PROJECT NAME:	**SR 93 (I-75)**
FROM:	**Broward County Line**
TO:	**Toll Booth**

Table of Contents

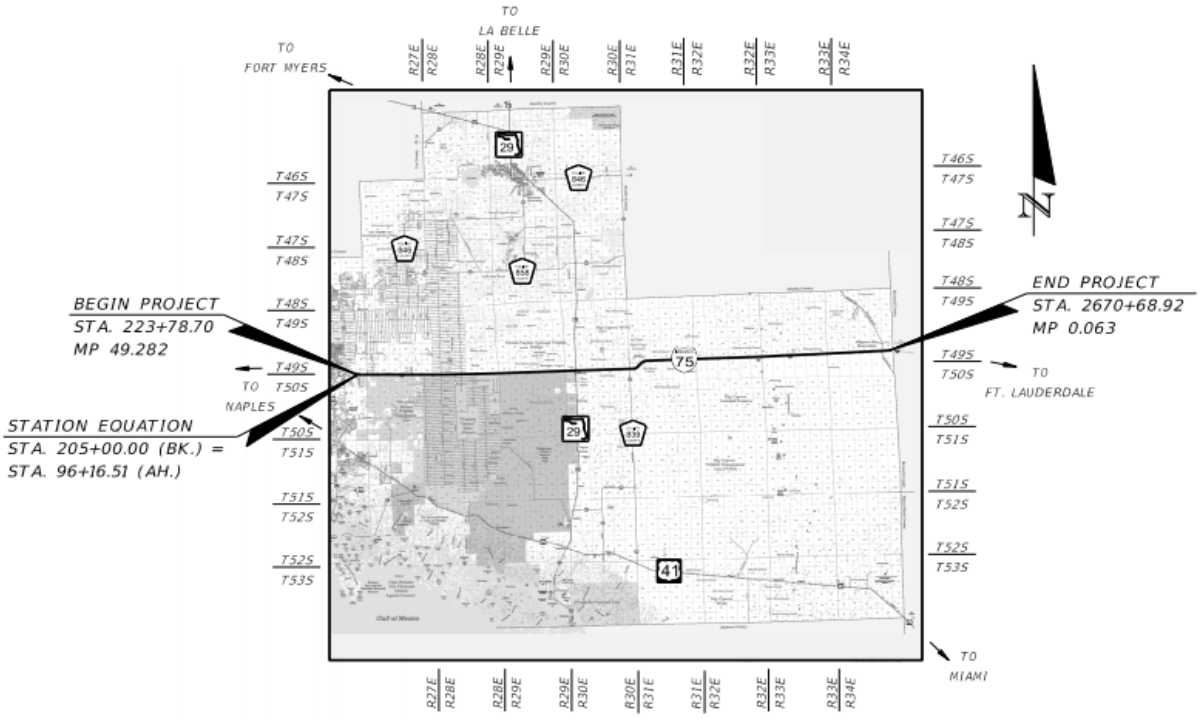
Faller Davis & Associates, Inc.
4200 W. Cypress St., Suite 500
Tampa, Florida 33607-4168

Approved by
Ken Muzyk Jr., P.E.

7/20/2020
Date

Concurrence by
Sam Joseph, P.E.
District Design Engineer

Date



PROJECT LOCATION MAP
FINANCIAL PROJECT ID: 444008-1-52-01
STATE SECTION NO: 03175
F.A. PROJECT NO: N/A
COLLIER COUNTY

Project Description

SR 93 (I-75) from the Collier County Line (MP 0.063) to the toll booths (MP 49.282) consists of a four-lane divided interstate with 12-foot travel lanes, inside 4-foot paved shoulders and outside 10-foot paved shoulders. The posted speed limit is 70 mph. I-75 is within limited access right of way and is classified as a Rural Principal Arterial interstate.

The southbound travel lanes are the original two lane roadway and are crowned with the inside lane sloped toward the median and outside lane sloped toward the right of way. The northbound travel lanes are sloped toward the outside and were added in the late 1980's to widen to four lanes. The travel lanes were resurfaced in 2007/2008 in four different sets of construction plans (415558-1, 417238-1, 419880-1, 413848-1). The paved shoulders were resurfaced in only one of the four segments (MP 24.368 to MP 35.629). Guardrail was added on the outside where the roadway is adjacent to canals as a safety improvement project in 2017 (436092-1). 40 of the 82 bridges contain an asphalt overlay.

This project will include milling and resurfacing the existing mainline and shoulders, cross slope correcting the travel lanes and inside paved shoulders, and widening the inside paved shoulders from 4-feet to 10-feet.

Cross slope correction will be accomplished by variable depth milling and may require overbuild on the existing inside paved shoulder due to the resultant pavement difference at the inside edge of travel.

FLORIDA DEPARTMENT OF TRANSPORTATION
FLEXIBLE PAVEMENT DESIGN SUMMARY SHEET

Prepared by:	John Gallman, P.E.	**Date Prepared:**	7/7/20
Financial Project No.	444008-1-52-01	**Project Name:**	SR 93 (I-75)

WPI No.	N/A	**From:**	Broward County Line
State Project No.	N/A	**To:**	Toll Booth
County Section No.	03175	**Begin MP:**	0.063
FAP No.	N/A	**End MP:**	49.282
County:	Collier	**Project Length (Mi)**	49.219
Type Work:	Mill & Resurface, Shoulder Widening		
Opening Year:	2022	**% R:**	99% for Rehab.
Design Year:	2042	**M_R:**	32,000 **PSI**
$ESAL_D$ - Mainline	17,157,000	**Design Speed:**	70 **MPH**
$ESAL_D$ - Shoulder	514,710	**Functional Class:**	Limited Access
SN_R - Mainline	3.80	**Design Seq. No.:**	1
SN_R - Shoulders	2.13	**Cross Slope Correction**	Yes

MILLING & RESURFACING **MILLING** **2.25** AVG.

NB Mainline
Inside Lane MP 0.063 to MP 49.282
Outside Lane MP 0.063 to MP 8.117
Outside Lane MP 8.697 to MP 13.065
Outside Lane MP 14.000 to MP 14.637
Outside Lane MP 15.970 to MP 49.282

Layer	Thickness	Coef.	SN
FC-5	0.95	0.00	0.00
TYPE S	4.61	0.25	1.15
LR	10.89	0.18	1.96
STAB	12.00	0.08	0.96
		Existing Total SN=	4.07

Recommended Resurfacing Pavement Design:

Layer	Thickness	Coef.	SN
Milling 2.25"			
Mill FC-5	0.95	0.00	0.00
Mill TYPE S	1.30	-0.25	-0.33
SP (Traffic D) (PG 76-22)	1.50	0.44	0.66
FC-5 (PG 76-22)	0.75	0.00	0.00
		Existing Total SN=	4.07
		Design Total SN=	4.40

Required SN for Mill/Resurf : 3.80

Required SN Difference From Design SN: 0.60 ✓ OK

Approved by
Ken Muzyk Jr., P.E.
Date: 7/20/2020

FLORIDA DEPARTMENT OF TRANSPORTATION
FLEXIBLE PAVEMENT DESIGN SUMMARY SHEET

Prepared by:	John Gallman, P.E.	**Date Prepared:**	7/7/20
Financial Project No.	444008-1-52-01	**Project Name:**	SR 93 (I-75)

WPI No.	N/A	**From:**	Broward County Line
State Project No.	N/A	**To:**	Toll Booth
County Section No.	03175	**Begin MP:**	0.063
FAP No.	N/A	**End MP:**	49.282
County:	Collier	**Project Length (Mi)**	49.219
Type Work:	Mill & Resurface, Shoulder Widening		
Opening Year:	2022	**% R:**	99% for Rehab.
Design Year:	2042	**M_R:**	32,000 **PSI**
$ESAL_D$ - Mainline	17,157,000	**Design Speed:**	70 **MPH**
$ESAL_D$ - Shoulder	514,710	**Functional Class:**	Limited Access
SN_R - Mainline	3.80	**Design Seq. No.:**	2
SN_R - Shoulders	2.13	**Cross Slope Correction**	Yes

MILLING & RESURFACING **MILLING** **6.25** AVG.

NB Mainline
Outside Lane MP 8.117 to MP 8.220

Layer	Thickness	Coef.	SN
FC-5	1.20	0.00	0.00
TYPE S	4.30	0.25	1.08
LR	10.00	0.18	1.80
STAB	12.00	0.08	0.96
		Existing Total SN=	3.84

Recommended Resurfacing Pavement Design:

Layer	Thickness	Coef.	SN
Milling 6.25"			
Mill FC-5	1.20	0.00	0.00
Mill TYPE S	4.30	-0.25	-1.08
Mill LR	0.75	-0.18	-0.14
SP (Traffic D)	2.50	0.44	1.10
SP (Traffic D)	1.50	0.44	0.66
SP (Traffic D) (PG 76-22)	1.50	0.44	0.66
FC-5 (PG 76-22)	0.75	0.00	0.00
		Existing Total SN=	3.84
		Design Total SN=	5.04
		Required SN for Mill/Resurf :	3.80
		Required SN Difference From Design SN:	1.24 ✓ OK

Approved by
Ken Muzyk Jr., P.E.
Date: 7/20/2020

FLORIDA DEPARTMENT OF TRANSPORTATION
FLEXIBLE PAVEMENT DESIGN SUMMARY SHEET

Prepared by:	John Gallman, P.E.	**Date Prepared:**	7/7/20
Financial Project No.	444008-1-52-01	**Project Name:**	SR 93 (I-75)
WPI No.	N/A	**From:**	Broward County Line
State Project No.	N/A	**To:**	Toll Booth
County Section No.	03175	**Begin MP:**	0.063
FAP No.	N/A	**End MP:**	49.282
County:	Collier	**Project Length (Mi)**	49.219
Type Work:	Mill & Resurface, Shoulder Widening		
Opening Year:	2022	**% R:**	99% for Rehab.
Design Year:	2042	**M_R:**	32,000 **PSI**
$ESAL_D$ - Mainline	17,157,000	**Design Speed:**	70 **MPH**
$ESAL_D$ - Shoulder	514,710	**Functional Class:**	Limited Access
SN_R - Mainline	3.80	**Design Seq. No.:**	3
SN_R - Shoulders	2.13	**Cross Slope Correction**	Yes

MILLING & RESURFACING **MILLING** **5.25** AVG.

NB Mainline
Outside Lane MP 8.220 to MP 8.697
Outside Lane MP 13.065 to MP 14.000
Outside Lane MP 14.637 to MP 15.970

Layer	Thickness	Coef.	SN
FC-5	0.90	0.00	0.00
TYPE S	4.00	0.25	1.00
LR	11.20	0.18	2.02
STAB	12.00	0.08	0.96
		Existing Total SN=	3.98

Recommended Resurfacing Pavement Design:

Layer	Thickness	Coef.	SN
Milling 5.25"			
Mill FC-5	0.90	0.00	0.00
Mill TYPE S	4.00	-0.25	-1.00
Mill LR	0.35	-0.18	-0.06
SP (Traffic D)	3.00	0.44	1.32
SP (Traffic D) (PG 76-22)	1.50	0.44	0.66
FC-5 (PG 76-22)	0.75	0.00	0.00
		Existing Total SN=	3.98
		Design Total SN=	4.90
		Required SN for Mill/Resurf :	3.80
		Required SN Difference From Design SN:	1.10 ✓ OK

Approved by
Ken Muzyk Jr., P.E.
Date: 7/20/2020

FLORIDA DEPARTMENT OF TRANSPORTATION
FLEXIBLE PAVEMENT DESIGN SUMMARY SHEET

Prepared by:	John Gallman, P.E.	**Date Prepared:**	7/7/20
Financial Project No.	444008-1-52-01	**Project Name:**	SR 93 (I-75)

WPI No.	N/A	**From:**	Broward County Line
State Project No.	N/A	**To:**	Toll Booth
County Section No.	03175	**Begin MP:**	0.063
FAP No.	N/A	**End MP:**	49.282
County:	Collier	**Project Length (Mi)**	49.219
Type Work:	Mill & Resurface, Shoulder Widening		
Opening Year:	2022	**% R:**	99% for Rehab.
Design Year:	2042	**M_R:**	32,000 **PSI**
$ESAL_D$ - Mainline	17,157,000	**Design Speed:**	70 **MPH**
$ESAL_D$ - Shoulder	514,710	**Functional Class:**	Limited Access
SN_R - Mainline	3.80	**Design Seq. No.:**	4
SN_R - Shoulders	2.13	**Cross Slope Correction**	Yes

MILLING & RESURFACING **MILLING** **2.25** AVG.

SB Mainline
MP 0.063 to MP 49.282

Layer	Thickness	Coef.	SN
FC-5	0.89	0.00	0.00
SP1F	1.59	0.25	0.40
TYPE S	3.42	0.25	0.86
BINDER	1.15	0.20	0.23
LR	11.78	0.18	2.12
STAB	12.00	0.08	0.96
		Existing Total SN=	4.57

Recommended Resurfacing Pavement Design:

Layer	Thickness	Coef.	SN
Milling 2.25"			
Mill FC-5	0.89	0.00	0.00
Mill TYPE S/SP1F	1.36	-0.25	-0.34
SP (Traffic D) (PG 76-22)	1.50	0.44	0.66
FC-5 (PG 76-22)	0.75	0.00	0.00
		Existing Total SN=	4.57
		Design Total SN=	4.89
		Required SN for Mill/Resurf :	3.80
		Required SN Difference From Design SN:	1.09 ✓ OK

Approved by
Ken Muyzk Jr., P.E.
Date: 7/20/2020

FLORIDA DEPARTMENT OF TRANSPORTATION
FLEXIBLE PAVEMENT DESIGN SUMMARY SHEET

Prepared by:	John Gallman, P.E.	**Date Prepared:**	7/7/20
Financial Project No.	444008-1-52-01	**Project Name:**	SR 93 (I-75)
WPI No.	N/A	**From:**	Broward County Line
State Project No.	N/A	**To:**	Toll Booth
County Section No.	03175	**Begin MP:**	0.063
FAP No.	N/A	**End MP:**	49.282
County:	Collier	**Project Length (Mi)**	49.219
Type Work:	Mill & Resurface, Shoulder Widening		
Opening Year:	2022	**% R:**	99% for Rehab.
Design Year:	2042	**M_R:**	32,000 **PSI**
$ESAL_D$ - Mainline	17,157,000	**Design Speed:**	70 **MPH**
$ESAL_D$ - Shoulder	514,710	**Functional Class:**	Limited Access
SN_R - Mainline	3.80	**Design Seq. No.:**	5
SN_R - Shoulders	2.13	**Cross Slope Correction**	No

MILLING & RESURFACING **MILLING** **1.50** AVG.
NB & SB Outside Shoulders
MP 0.063 to MP 24.368
MP 35.629 to MP 49.282

Layer	Thickness	Coef.	SN
TYPE S/SP1F	1.11	0.25	0.28
LR	11.19	0.18	2.01
STAB	12.00	0.08	0.96
		Existing Total SN=	3.25

Recommended Resurfacing Pavement Design:

Layer	Thickness	Coef.	SN
Milling 1.5"			
Mill TYPE S/SP1F	1.11	-0.25	-0.28
Mill LR	0.39	-0.18	-0.07
SP (Traffic B)	1.50	0.44	0.66

Existing Total SN= 3.25
Design Total SN= 3.56

Required SN for Mill/Resurf : 2.13

Required SN Difference From Design SN: 1.43 ✓ OK

Approved by
Ken Muzyk Jr., P.E.
Date: 7/20/2020

FLORIDA DEPARTMENT OF TRANSPORTATION
FLEXIBLE PAVEMENT DESIGN SUMMARY SHEET

Prepared by:	John Gallman, P.E.	**Date Prepared:**	7/7/20
Financial Project No.	444008-1-52-01	**Project Name:**	SR 93 (I-75)

WPI No.	N/A	**From:**	Broward County Line
State Project No.	N/A	**To:**	Toll Booth
County Section No.	03175	**Begin MP:**	0.063
FAP No.	N/A	**End MP:**	49.282
County:	Collier	**Project Length (Mi)**	49.219
Type Work:	Mill & Resurface, Shoulder Widening		
Opening Year:	2022	**% R:**	99% for Rehab.
Design Year:	2042	**M_R:**	32,000 **PSI**
$ESAL_D$ - Mainline	17,157,000	**Design Speed:**	70 **MPH**
$ESAL_D$ - Shoulder	514,710	**Functional Class:**	Limited Access
SN_R - Mainline	3.80	**Design Seq. No.:**	6
SN_R - Shoulders	2.13	**Cross Slope Correction**	Yes

MILLING & RESURFACING **MILLING** **1.50** AVG.
NB & SB Inside Shoulders
MP 0.063 to MP 49.282

Layer	Thickness	Coef.	SN
TYPE S/SP1F	1.36	0.25	0.34
LR	10.33	0.18	1.86
STAB	12.00	0.08	0.96
		Existing Total SN=	3.16

Recommended Resurfacing Pavement Design:

Layer	Thickness	Coef.	SN
Milling 1.5"			
Mill TYPE S/SP1F	1.36	-0.25	-0.34
Mill LR	0.14	-0.18	-0.03
SP (Traffic B)	1.50	0.44	0.66

Existing Total SN=	3.16
Design Total SN=	3.45
Required SN for Mill/Resurf :	2.13
Required SN Difference From Design SN:	1.32 ✓ OK

Approved by
Ken Muzyk Jr., P.E.
Date: 7/20/2020

FLORIDA DEPARTMENT OF TRANSPORTATION
FLEXIBLE PAVEMENT DESIGN SUMMARY SHEET

Prepared by:	John Gallman, P.E.	**Date Prepared:**	7/7/20
Financial Project No.	444008-1-52-01	**Project Name:**	SR 93 (I-75)
WPI No.	N/A	**From:**	Broward County Line
State Project No.	N/A	**To:**	Toll Booth
County Section No.	03175	**Begin MP:**	0.063
FAP No.	N/A	**End MP:**	49.282
County:	Collier	**Project Length (Mi)**	49.219
Type Work:	Mill & Resurface, Shoulder Widening		
Opening Year:	2022	**% R:**	99% for Rehab.
Design Year:	2042	**M_R:**	32,000 **PSI**
$ESAL_D$ - Mainline	17,157,000	**Design Speed:**	70 **MPH**
$ESAL_D$ - Shoulder	514,710	**Functional Class:**	Limited Access
SN_R - Mainline	3.80	**Design Seq. No.:**	7
SN_R - Shoulders	2.13	**Cross Slope Correction**	No

NEW CONSTRUCTION - WIDENING SHOULDER PAVEMENT
NB & SB Inside Shoulder
MP 0.063 to MP 49.282

Recommended Shoulder Pavement Design:

Layer	Thickness	Coef.	SN
SP (Traffic B)	1.50	0.44	0.66
OBG 1	4.00	0.18	0.72
Type B Stabilization	12.00	0.08	0.96
		Design Total SN=	2.34
		Required SN for Widening :	2.13
		Required SN Difference From Design SN:	0.21 ✓ OK

Approved by
Ken Muzyk Jr., P.E.
Date: 7/20/2020

PAVEMENT DESIGN NOTES

REFERENCE: FLEXIBLE PAVEMENT DESIGN MANUAL (Revised January 2020)

1. The pavement description in the plans should read:

Northbound and Southbound Travel Lanes

SB Inside Lane, SB Outside Lane, and NB Inside Lane: MP 49.282 to MP 0.063 (STA 233+78.70 to STA 205+00.00 BK, 96+16.51 AH to STA 2670+68.92), NB Outside Lane: MP 49.282 to MP 15.970 (STA 233+78.70 to STA 205+00.00 BK, 96+16.51 AH to STA 1830+80.00), MP 14.637 to MP 14.000, (STA 1901+20.00 to STA 1934+80.00), MP 13.065 to MP 8.697 (STA 1984+16.33 to STA 2214+80.00), MP 8.117 to MP 0.063 (STA 2245+41.20 to STA 2670+68.92)

MILL EXISTING ASPHALT PAVEMENT (2 1/4" DEPTH)
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1 1/2") (PG 76-22)
FRICTION COURSE FC-5 (3/4") (PG 76-22)

Northbound Travel Lane

NB Outside Lane: MP 8.220 to MP 8.117 (STA 2240+00.00 to STA 2245+41.20)

MILL EXISTING ASPHALT PAVEMENT (6 1/4" DEPTH)
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC D) (4")
AND TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1 1/2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

Northbound Travel Lane

NB Outside Lane: MP 15.970 to MP 14.637 (STA 1830+80.00 to STA 1901+20.00), MP 14.000 to MP 13.065 (STA 1934+80.00 to STA 1984+16.33), MP 8.697 to MP 8.220 (STA 2214+80.00 to STA 2240+00.00)

MILL EXISTING ASPHALT PAVEMENT (5 1/4" DEPTH)
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC D) (3")
AND TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1 1/2") (PG 76-22)
AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

Northbound and Southbound Outside Shoulder Pavement

SB and NB Outside Shoulder: MP 0.063 to 24.368 (STA 1387+39.26 to STA 2670+68.92), MP 35.629 to MP 49.282 (STA 233+78.70 to STA 205+00.00 BK, 96+16.51 AH to STA 792+80.00)

MILL EXISTING ASPHALT PAVEMENT (1 1/2" DEPTH)
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1 1/2")

Northbound and Southbound Inside Shoulder Pavement

SB and NB Inside Shoulder: MP 0.063 to MP 49.282 (STA 233+78.70 to STA 205+00.00 BK, 96+16.51 AH to STA 2670+68.92)

MILL EXISTING ASPHALT PAVEMENT (1 1/2" DEPTH)
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1 1/2")

Northbound and Southbound Inside Shoulder Widening

SB and NB Inside Shoulder: MP 0.063 to MP 49.282 (STA 233+78.70 to STA 205+00.00 BK, 96+16.51 AH to STA 2670+68.92)

WIDENING
OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1 1/2")

2. The coring report consisted of four-hundred and thirty-nine (439) cores extracted; two-hundred and forty (240) from the mainline, one-hundred and seventy-one (171) from the shoulders, and twenty-eight (28) from the ramps, crossovers and service roads. (See Appendix C). Only pavement coring data from the mainline and shoulders was used in the pavement design. Forty (40) cores from the bridge decks and approaches and thirty-eight (38) cores from the mainline and shoulders deemed as outliers and/or as deficient samples were removed from the pavement design calculations. (See Appendix D).

3. The structural coefficients were based on the existing pavement being in fair condition. The structural coefficients were selected using Table 7.1 of the Flexible Pavement Design Manual.

4. A percent reliability of 99% was selected for the pavement design analysis from Table 5.2 of the Flexible Pavement Design Manual based on the traffic volumes and historical average of the roadway.

5. The resilient modulus (M_R) of 32,000 psi was used for the pavement design analysis. This is consistent with the Resilient Modulus Recommendation (Appendix B).

6. An ESAL of 17,157,000 falls within the range for Traffic D; therefore, we recommend Traffic D for the mainline. Per Chapter 8 of the Flexible Design Manual for higher volume type roadways, 3% of the ESAL was used to calculate the SN for the shoulder design. 3% of the mainline ESAL's falls within the range for Traffic B; therefore, we recommend Traffic B for the shoulders.

7. Using Table 5.5 of the Flexible Pavement Design Manual for limited access shoulders the required minimum structural course is 1.5" and minimum base group is 1. The shoulder pavement widening design exceeds the required structural number.

8. The functional classification of the existing roadway is a Rural Principal Arterial interstate.

9. In a cost savings initiative, MP 24.368 to MP 35.629 was omitted from the outside paved shoulder resurfacing as they were previously resurfaced in 2007/2008 and remain in good condition.

10. Cross slope correction will be accomplished via milling to minimize overbuild. This results in a significantly higher SN than required which allows some removal of structural course, completion of the shoulder widening adjacent to corrected cross slopes, and is consistent with current industry practices.

11. Additional milling and resurfacing details are being prepared together with the construction plans development.

12. NB and SB outside shoulder pavement design analysis was calculated using their respective coring data. They were combined to reduce redundancy of information using the smaller SN as verification they meet criteria. (NB SN = 3.49, SB SN = 3.61) (See Appendix D).

13. NB and SB inside shoulder pavement design analysis was calculated using their respective coring data. They were combined to reduce redundancy of information using the smaller SN as verification they meet criteria. (NB SN = 3.45, SB SN = 3.71) (See Appendix D).

FPID: 444008-1-52-01

PAVEMENT DESIGN SKETCH

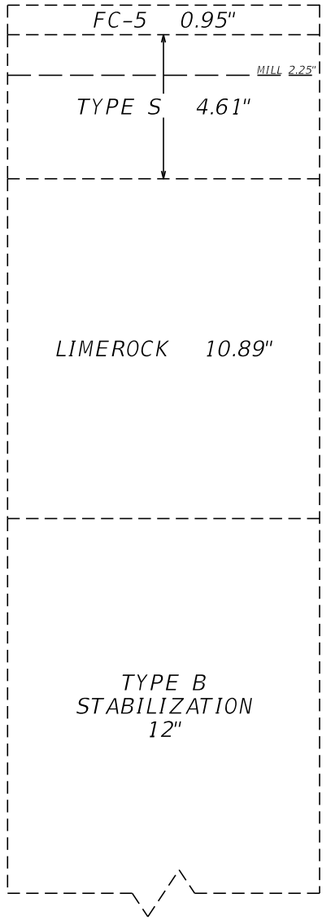
(NOT TO SCALE)

NORTHBOUND
MILLING AND RESURFACING

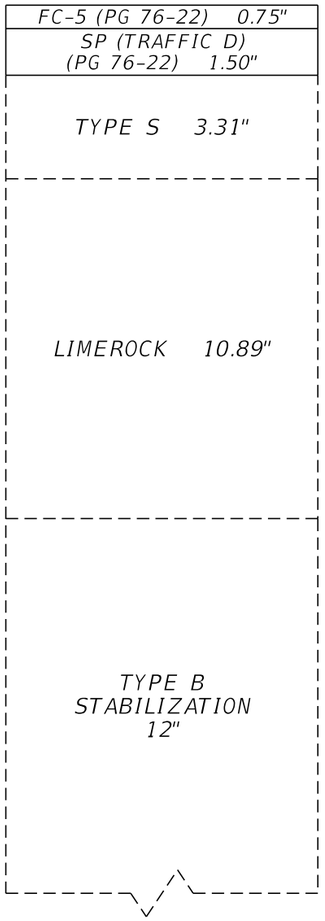
INSIDE TRAVEL LANE: MP 0.063 TO MP 49.282,
OUTSIDE TRAVEL LANE: MP 0.063 TO MP 8.117,
MP 8.697 TO MP 13.065, MP 14.000 TO MP 14.637,
MP 15.970 TO MP 49.282

SN REQUIRED: 3.80
SN PROVIDED: 4.40

EXISTING MAINLINE



RESURFACED MAINLINE

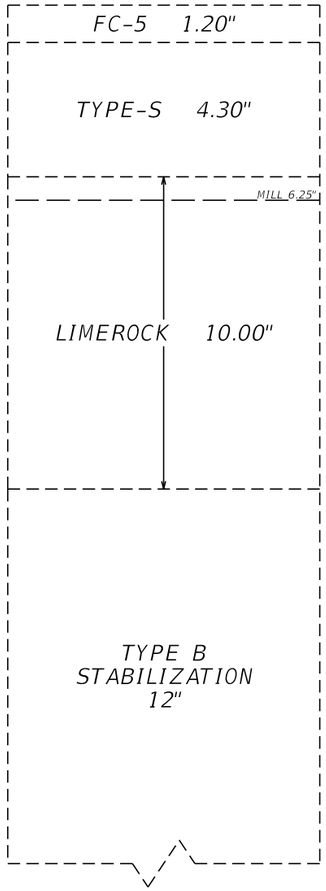


NORTHBOUND
MILLING AND RESURFACING

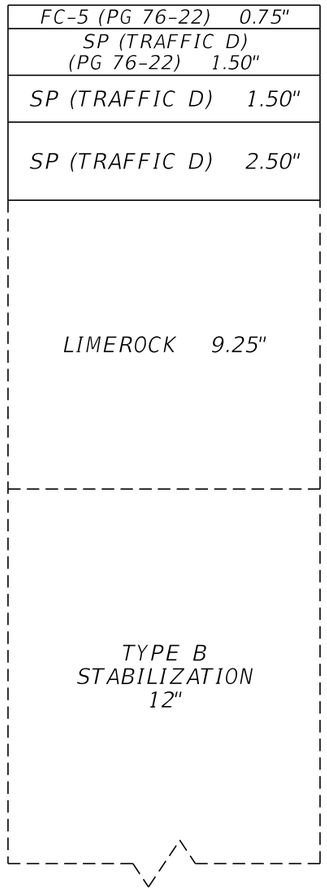
OUTSIDE TRAVEL LANE:
MP 8.117 TO MP 8.220

SN REQUIRED: 3.80
SN PROVIDED: 5.04

EXISTING MAINLINE



RESURFACED MAINLINE

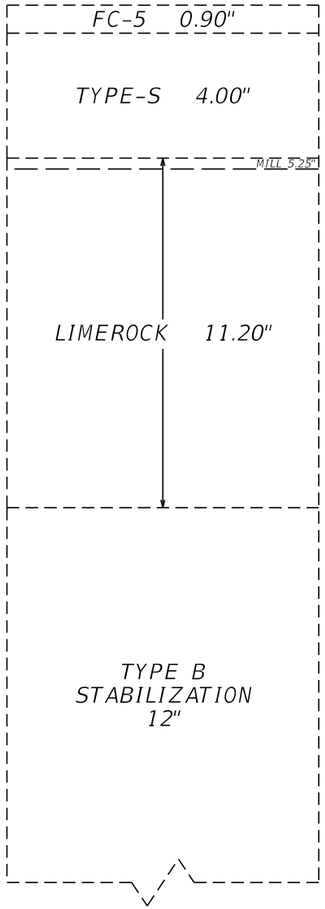


NORTHBOUND
MILLING AND RESURFACING

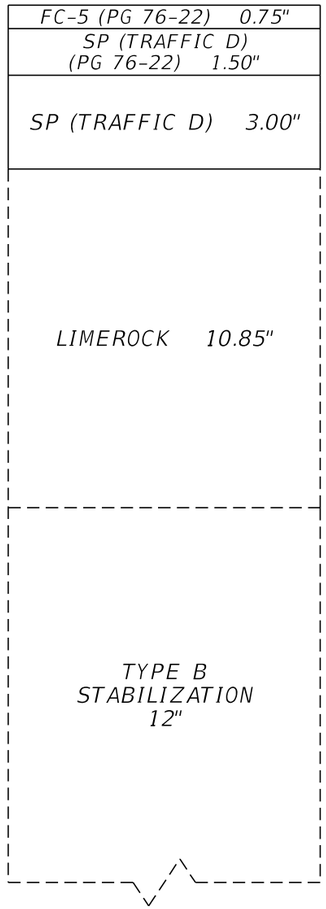
OUTSIDE TRAVEL LANE:
MP 8.220 TO MP 8.697,
MP 13.065 TO MP 14.000,
MP 14.637 TO MP 15.970

SN REQUIRED: 3.80
SN PROVIDED: 4.90

EXISTING MAINLINE



RESURFACED MAINLINE



FPID: 444008-1-52-01

PAVEMENT DESIGN SKETCH

(NOT TO SCALE)

SOUTHBOUND
MILLING AND RESURFACING

MP 0.063 TO MP 49.282

SN REQUIRED: 3.80
SN PROVIDED: 4.89

NORTHBOUND & SOUTHBOUND
MILLING AND RESURFACING

MP 0.063 TO MP 24.368
MP 35.629 TO MP 49.282

SN REQUIRED: 2.13
SN PROVIDED: 3.56

NORTHBOUND & SOUTHBOUND
MILLING AND RESURFACING

MP 0.063 TO MP 49.282

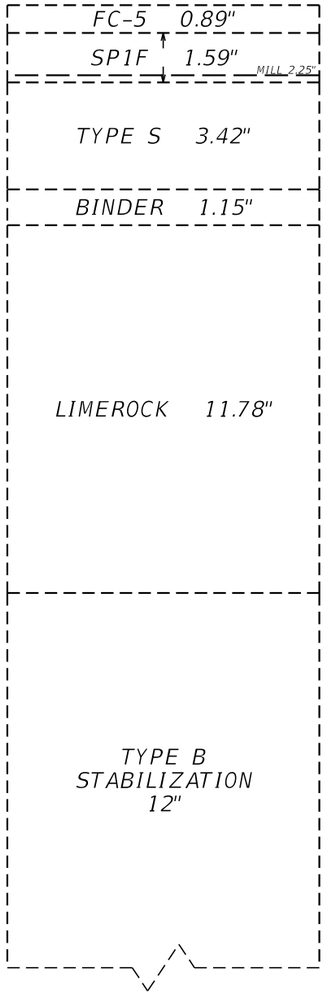
SN REQUIRED: 2.13
SN PROVIDED: 3.45

NORTHBOUND & SOUTHBOUND
SHOULDER WIDENING

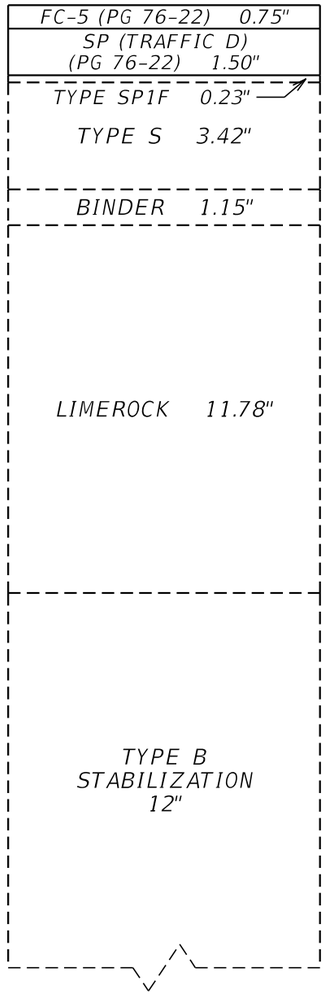
MP 0.063 TO MP 49.282

SN REQUIRED: 2.13
SN PROVIDED: 2.34

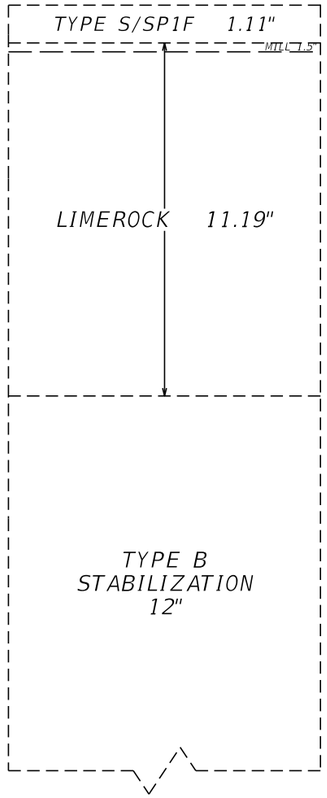
EXISTING MAINLINE



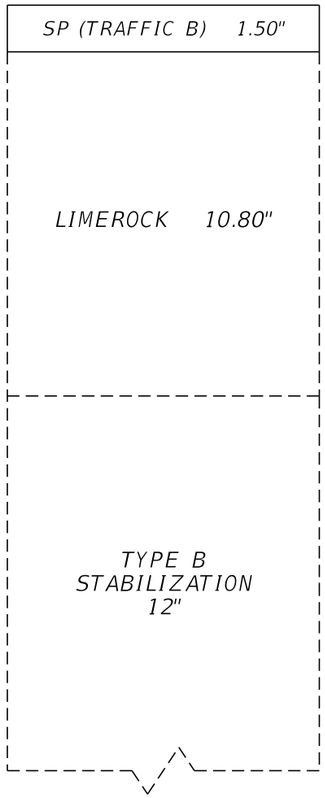
RESURFACED MAINLINE



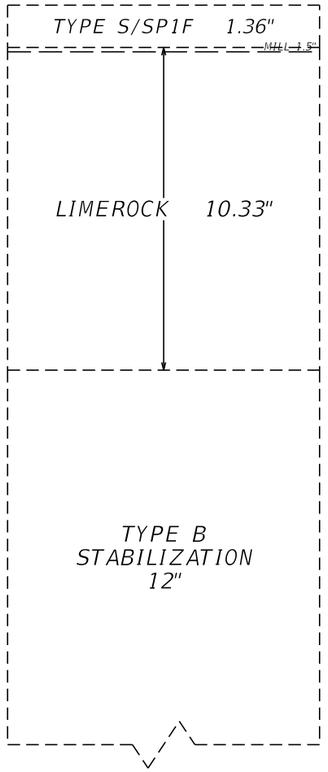
EXISTING OUTSIDE SHOULDER



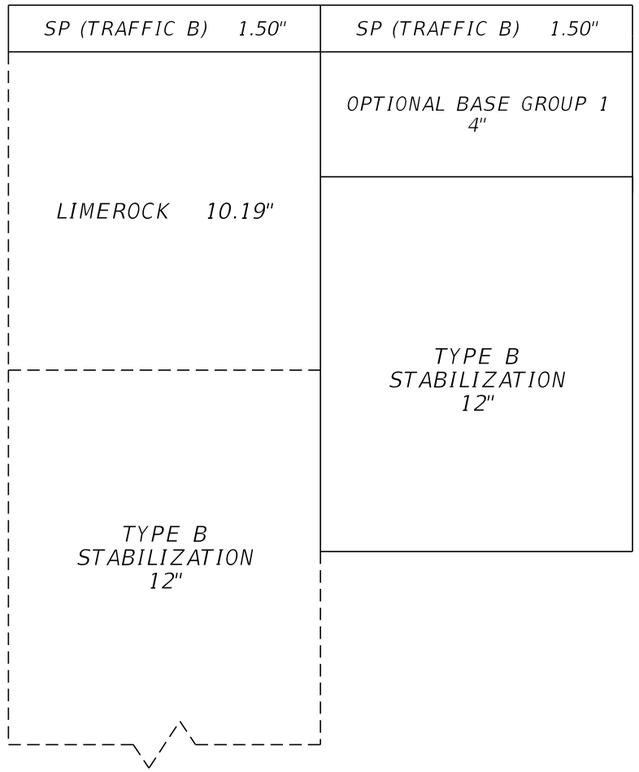
RESURFACED OUTSIDE SHOULDER



EXISTING INSIDE SHOULDER



RESURFACED INSIDE SHOULDER / WIDENING



FLEXIBLE PAVEMENT DESIGN
QUALITY CONTROL CHECKLIST

Financial Project ID: ***444008-1-52-01*** Financial Aid No.: ***N/A***
WPI No.: ***N/A*** County: ***Collier***

Ref. No.	**Flexible Pavement Design Review**	**Satisfactory Yes/No**
1.	Pavement Design Summary Sheet	***Yes***
2.	Project Location and Description	***Yes***
3.	Traffic Data and ESALD Calculations	***Yes***
4.	Resilient Modulus (MR)	***Yes***
5.	Required Structural Number (SNR) Calculations	***Yes***
6.	Calculated Structural Number (SNC) Calculations	***Yes***
7.	Base Material Selection	***Yes***
8.	Friction Course Selection	***Yes***
9.	Stabilized Subgrade Evaluation	***Yes***
10.	Shoulder Design	***Yes***
11.	Coordination with Other Offices	***Yes***
12.	Other Special Details	***Yes***
13.	Final Pavement Design Drawing or Narrative	***Yes***
	Rehabilitation	
14.	Field Evaluation of Project	***Yes***
15.	Pavement Coring and Evaluation	***Yes***
16.	Distress Evaluation	***Yes***
17.	Existing Cross-Slope and Correction Method	***Yes***
18.	Milling Depth and Purpose	***Yes***
19.	Overlay Structural Number (SNO) Calculations	***NA***
20.	Leveling/Overbuild Recommendation	***NA***
21.	Composition Report	***Yes***
	Projects That Do Not Require Design Calculations	
22.	Existing Pavement Evaluation	***NA***
23.	Existing Cross-Slope and Correction method	***NA***
24.	Asphalt Thickness	***NA***
25.	Base Type and Thickness	***NA***
26.	Future Milling Considerations	***NA***
27.	Structural Evaluation	***NA***
	Plans Review	
28.	Plans Conform to Pavement Design	***Yes***
29.	Cross-Slope correction addressed	***Yes***
30.	Design Details Adequately Covered	***Yes***
31.	Standard Indexes Properly Referenced	***NA***
32.	Project is Constructable with Current Technology	***Yes***

Comments (by Ref. No.)

QA by: ***V. Seth Collie*** V. Seth Collie Date: ***7/14/2020***

Appendix A

Design Traffic and 18-KIP Information

FDOT

Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ERIK R. FENNIMAN
INTERIM SECRETARY

MEMORANDUM

Date: March 14, 2019

To: Evan Agillon — EXT 2484, MS 1-58

From: Christopher Perez-Borroto, ISD Intern

Subject: Financial Project No: 444008-1-52-01
Roadway ID: 03175000
Project Name: SR 93
County: Collier
Type of Work: Resurfacing
From MP: 0.000 – 49.102

Per your request, the attached traffic data forecasts are provided for the above roadway. These estimates were taken from trends calculated from traffic counts provided by FDOT.

K = 9.0 %
D = 54.6%
24 hour T = 18.1%
Design Hour T = 9.05%
2017 AADT = 24000
Functional Class = Rural Prin Art Int

The attached 18-KIP Equivalent Single Axle Loading Accumulations are based on the above information, and have been prepared in accordance with the Central Offices memo of December 1, 2000, reflecting the current Equivalency Factors.

As requested, we have included the 24-hour traffic count for sites 030173 and 030351.

Please feel free to contact Kyle Purvis at extension 2395 if you have any questions.

18 kip EQUIVALENT SINGLE AXLE LOAD ANALYSIS

PROJECT TRAFFIC FOR PD&E and DESIGN ANALYSIS INFO / FACTORS

FIN #: 444008-1-52-01
COUNTY: Collier
ROADWAYID: 03175000
PROJECT DESCRIPTION: Resurfacing

LOCATION DESCRIPTION: SR 93 **LOCATION #:** 1

GROWTH RATE FORMULA

A: Interpolation
B: Enter Growth Rate
C: Enter All AADTs
D: New Facility

If "A" select an interpolation function
If "B" enter rate as decimals (1%=1.01)
If ""C", or "D" continue to next section

Choose A, B, C, or D here: A

Linear Growth Rate X %
Compounded Growth Rate ____ %
Decaying Growth Rate ____ %
(select one)

DESIGN INFORMATION

		AADT
Existing Year	2017	24000
Opening Year	2022	N/A
Mid-Design Year	2032	N/A
Design Year	2042	37399

Note: AADT values have been rounded to the nearest 100

Daily Direction Split (50% or 100%): 50%
Lanes in One Direction: 2

T24 values

Existing to Opening Year: 18.10%
Opening to Mid-Year: 18.10%
Mid-Year to Design-Year: 18.10%

2000 EQUIVALENCY FACTORS |u(1)|

(selected with an X)	FLEXIBLE PAVEMENT SN = 5/THICK		RIGID PAVEMENT SN = 12/THICK	
RURAL FREEWAY:	1.050	X	1.600	____
URBAN FREEWAY:	0.900	____	1.270	____
RURAL HIGHWAY:	0.960	____	1.350	____
URBAN HIGHWAY:	0.890	____	1.220	____
OTHER (Enter Factor and X):		____		____

(1) Equivalency Factors are based on Updated Pavement Damage Factors Memorandum, dated December 1, 2000.
Lane Factors developed by Copes equation

I have reviewed the 18 kip Equivalent Single Axle Loads (ESAL's) to be used for pavement design on this project. I hereby attest that these have been developed in accordance with the FDOT Project Traffic Forecasting Procedure using historical traffic data and other available information.

Prepared by: Christopher Perez-Borroto	ISD Intern		FDOT
Name	Title		Org. Unit or Firm
Signature		3/26/19 Date	
Reviewed by: Kyle Purvis	District TDA Administrator		FDOT
Name	Title		Org. Unit or Firm
Signature		3-26-19 Date	

18 kip EQUIVALENT SINGLE AXLE LOAD ANALYSIS - LOCATION 1

PROJECT TRAFFIC FOR PD&E and DESIGN ANALYSIS INFO / FACTORS

YEARS: *2017 to 2042*

SECTION #: 03175000 **COUNTY:** Collier **FIN #:** 444008-1-52-01

FLEXIBLE PAVEMENT RURALFREEWAY 1.050

SN=5/THICK Resurfacing A

YEAR	AADT	ESAL (1000S)	ACCUM (1000s)	D	T	LF	EF
2017	24000	659	0	0.5	18.10%	0.791	1.050
2018	24500	671	0	0.5	18.10%	0.789	1.050
2019	25000	684	0	0.5	18.10%	0.788	1.050
2020	25600	698	0	0.5	18.10%	0.786	1.050
2021	26100	710	0	0.5	18.10%	0.784	1.050
2022	26600	723	723	0.5	18.10%	0.783	1.050
2023	27200	737	1460	0.5	18.10%	0.781	1.050
2024	27700	749	2209	0.5	18.10%	0.779	1.050
2025	28200	761	2970	0.5	18.10%	0.778	1.050
2026	28800	776	3746	0.5	18.10%	0.776	1.050
2027	29300	788	4534	0.5	18.10%	0.775	1.050
2028	29800	800	5334	0.5	18.10%	0.773	1.050
2029	30400	814	6148	0.5	18.10%	0.772	1.050
2030	30900	826	6974	0.5	18.10%	0.770	1.050
2031	31500	840	7814	0.5	18.10%	0.769	1.050
2032	32000	852	8666	0.5	18.10%	0.767	1.050
2033	32500	864	9530	0.5	18.10%	0.766	1.050
2034	33100	878	10408	0.5	18.10%	0.765	1.050
2035	33600	890	11298	0.5	18.10%	0.763	1.050
2036	34100	902	12200	0.5	18.10%	0.762	1.050
2037	34700	916	13116	0.5	18.10%	0.761	1.050
2038	35200	928	14044	0.5	18.10%	0.760	1.050
2039	35700	940	14984	0.5	18.10%	0.758	1.050
2040	36300	954	15938	0.5	18.10%	0.757	1.050
2041	36800	965	16903	0.5	18.10%	0.756	1.050
2042	37300	977	17880	0.5	18.10%	0.755	1.050

Opening to Mid-Design Year ESAL Accumulation (1000s): 7943

Opening to Design Year ESAL Accumulation (1000s): 17157

I have reviewed the 18 kip Equivalent Single Axle Loads (ESAL's) to be used for pavement design on this project. I hereby attest that these have been developed in accordance with the FDOT Project Traffic Forecasting Procedure using historical traffic data and other available information.

Prepared by: Christoher Perez-Borroto — ISD Intern — FDOT

Name — Title — Org. Unit or Firm

Signature — 3/26/19 — Date

Reviewed by: Kyle Purvis — District TDA Administrator — FDOT

Name — Title — Org. Unit or Firm

Signature — 3-26-19 — Date

Appendix B

Resilient Modulus Recommendation

Florida Department of Transportation

RON DESANTIS
GOVERNOR

STATE MATERIALS OFFICE
5007 Northeast 39th Avenue, Gainesville, Florida 32609
Telephone: (352) 955-6341, Fax: (850) 412-8160

KEVIN J. THIBAULT
SECRETARY

TO: Nate Willbur, District 1 Project Manager

FROM: Charles Holzschuher, P.E., State Pavement Performance Engineer

DATE: May 16, 2019

COPIES:

SUBJECT: Resilient Modulus Recommendation

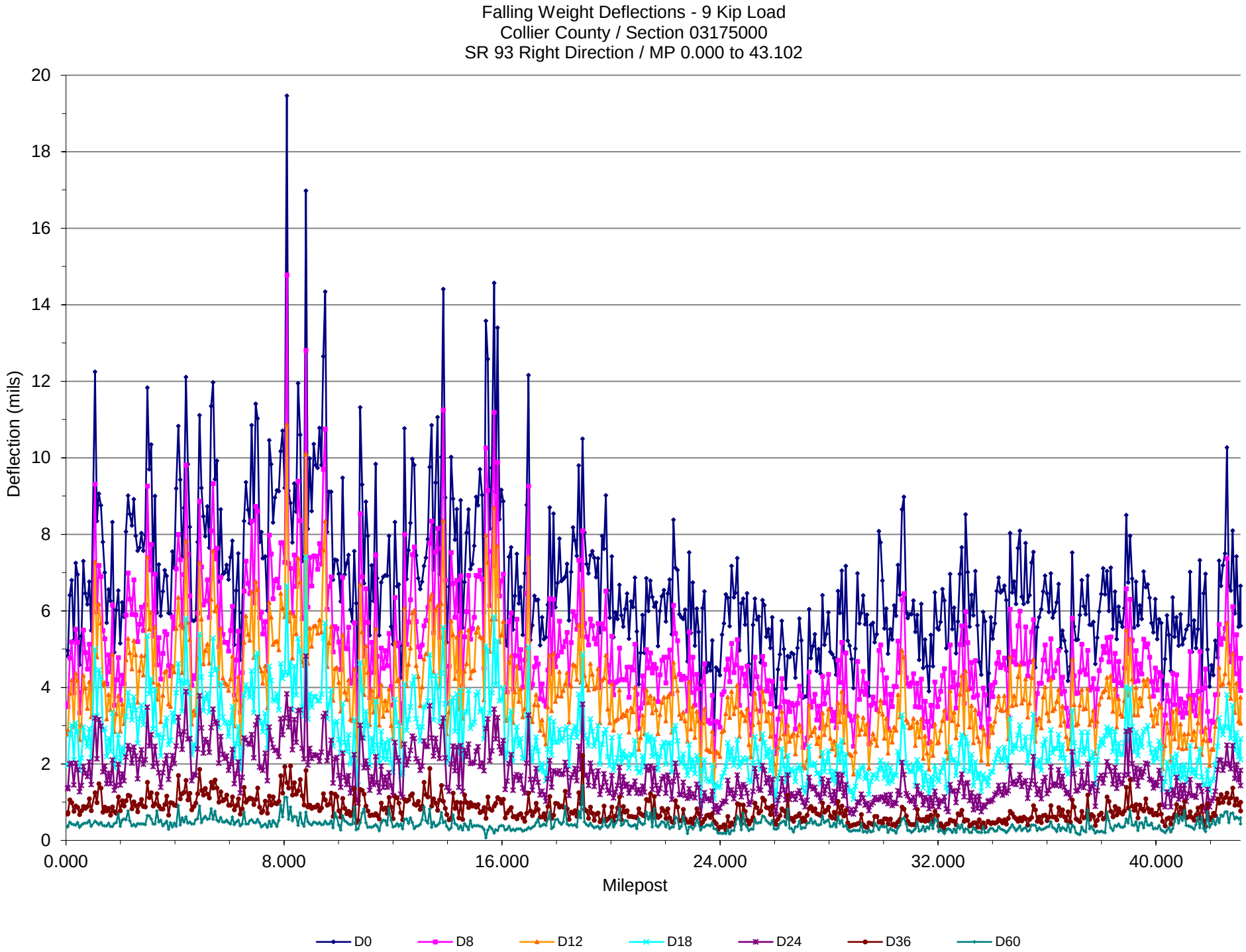
Project Description:	SR-93 / I-75
	MP 0.000 to 43.102
Project Number:	03175000
FIN No.:	444008-1
County:	Collier

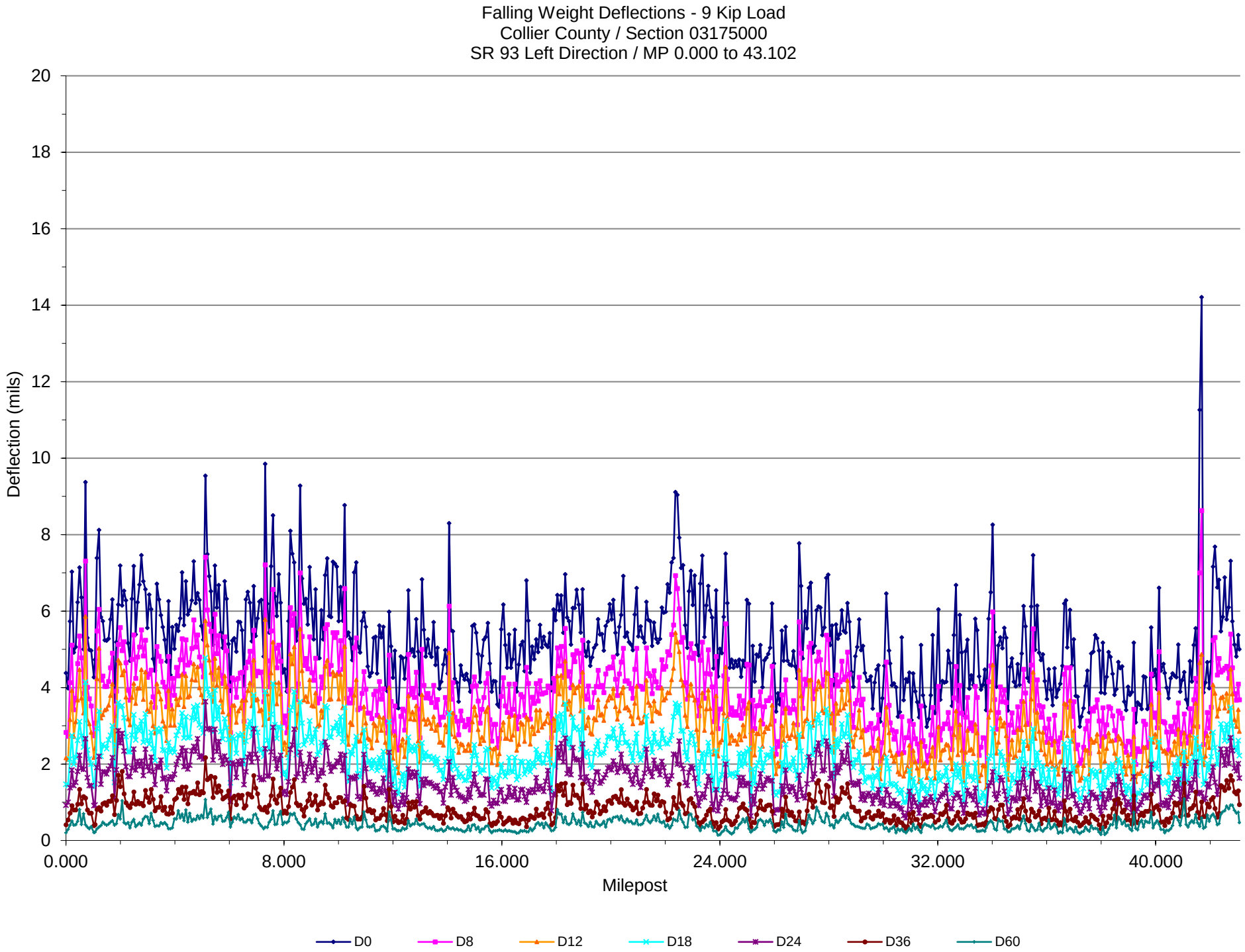
On May 6th, 7th and 8th, 2019 deflection tests were conducted in the right and left traffic lanes of SR-93 / I-75. Evaluation of the data and resulting deflection plots indicate the following Resilient Modulus is representative of the existing pavement system and is hereby recommended for this project.

Travel Direction	Beginning Milepost	Ending Milepost	Modulus (psi)	Modulus (MPa)
Right/Left	0.000	43.102	32,000	221

Please let me know if you need further assistance.

CH/ag
Attachment: Deflection Plots


Falling Weight Deflections - 9 Kip Load
Collier County / Section 03175000
SR 93 Right Direction / MP 0.000 to 43.102
Deflection (mils)
20
18
16
14
12
10
8
6
4
2
0
0.000
8.000
16.000
24.000
32.000
40.000
Milepost
D0
D8
D12
D18
D24
D36
D60


Falling Weight Deflections - 9 Kip Load
Collier County / Section 03175000
SR 93 Left Direction / MP 0.000 to 43.102
Deflection (mils)
20
18
16
14
12
10
8
6
4
2
0
0.000
8.000
16.000
24.000
32.000
40.000
Milepost
D0
D8
D12
D18
D24
D36
D60

Appendix C

Pavement Survey and Evaluation Report

Florida Department of
TRANSPORTATION

Pavement Survey and Evaluation Report

State Road 93 (I-75)

Collier County

Financial Project Number 444008-1

Milepost 0.000 To 49.102

District 1 & 7 Materials

Authors
Marlene Hebert
V. Seth Collie, PE

Date of Report
November 6, 2019

PAVEMENT SURVEY AND EVALUATION REPORT
SR 93 FROM BROWARD COUNTY LINE TO TOLL BOOTH

INTRODUCTION

In response to your request, District Materials Office conducted a pavement survey and evaluation on SR 93 (I-75) in Collier County for the subject project. We understand this project involves milling and resurfacing from Broward County Line to the Toll Booth.

The objective of this work was to identify the existing pavement composition and to assess the pavement conditions, based on which to make recommendations for milling depth and resurfacing plan. This work involves a field review, pavement coring, data analysis, and reporting.

FIELD REVIEW

The objective of the field review is to gain a good understanding of the overall pavement condition, and to help determine the layout of the core locations. This review was performed on June 24 thru June 28, 2019 by our asphalt field specialist, Brent Grubbs and Giovanni Spatazza. The results of this review are included in Appendix 1.

Typical Section

The typical section consists of a four-lane divided asphalt pavement structure with paved shoulders.

Pavement Condition

The pavement has an open-graded friction course. The overall condition of this section is fair with intermittent severe cracks, some raveling and patched areas.

CORING INFORMATION

The pavement coring on the Right Roadway / North Bound was performed on August 15 thru August 21, 2019 by Test Lab, Inc. and the Left Roadway / South Bound was performed by Arehna Engineering, Inc. The pavement coring was performed in general accordance with Section 3.2 of the Materials Manual- *Flexible Pavement Coring and Evaluation*.

A total of four-hundred and thirty-nine (439) cores were extracted, right two-hundred and forty (240) from the mainline, one-hundred and seventy-one (171) cores from the shoulder, and twenty-eight (28) from the ramps, crossovers and service roads. Pictures of core samples and locations are illustrated in Appendix 2. The core layout and the coring data, including cross slope and the type of base materials, are presented in Appendix 3.

Hand augers were taken at 10% of the core locations to verify stabilized subgrade, and six hand augers were extended at random highly cracked locations. The hand augers did not indicate a presence of deleterious material. The results are included in Appendix 4.

REHABILITATION RECOMMENDATIONS

Considering the existing pavement condition, we render the following recommendations for milling and resurfacing.

MAINLINE (EXCEPTION BELOW)

- Mill 2.25 inches
- Resurface with 1.50 inches of SP 12.5 and 0.75 inches of FC 5 friction course.

ALL SHOULDERS AND SERVICE ROADS

- Mill 1.50 inches
- Resurface with 1.50 inches of SP 12.5 structural course.

EXCEPTION

- MP 8.083 – 8.167 / R2 ONLY
    - Mill 6.25 inches and resurface with 5.50 inches of SP 12.5 inches of structural course and 0.75 inches of FC 5 friction course.

- MP 8.456 – 8.574 / R2 ONLY
    - Mill 5.25 inches and resurface with 4.50 inches of SP 12.5 inches of structural course and 0.75 inches of FC 5 friction course.

- MP 13.540 – 13.594 / R2 ONLY
    - Mill 5.25 inches and resurface with 4.50 inches of SP 12.5 inches of structural course and 0.75 inches of FC 5 friction course.

- MP 15.174 – 15.870 / R2 ONLY
    - Mill 5.25 inches and resurface with 4.50 inches of SP 12.5 inches of structural course and 0.75 inches of FC 5 friction course.

RAMPS

- Mill 2.0 inches
- Resurface with 2.00 inches of SP 12.5 structural course.

Appendix 5 provides an illustration of the milling and resurfacing recommendation.

COMMENTS AND GENERAL NOTES

In addition to the recommendations made within this report, the following items should be considered when preparing the contract documents for the subject project:

Notes to the Designer

1. Due to the variable asphalt pavement thickness, and the frequency in which the preliminary pavement cores were taken, isolated areas of the base will be exposed and in some instances, it will partially be removed.

2. Milling may need to be adjusted at the beginning and end of the project, bridge deck, approach slabs or areas in which constraints dictate. Appropriate plan details need to be illustrated in the plans in accordance with the FDOT Flexible Pavement Design Manual (FPDM).

The identification of the different pavement layers is based on visual classification as well as familiarity with the site. The actual classification may be different due to variability in asphalt mixes and roadway construction. The information in this report is based on the conditions found at the time of our investigation. The engineer shall notify us if the type of work proposed for the project changes and/or existing conditions change prior to the letting of the project. This report is based on the fact the project will be designed and constructed in accordance with the Standard Specifications, Standard Plans, Flexible Pavement Design Manual and other available information unless stated otherwise within this report.

Please contact this office if additional service is required or if there are any questions regarding this report at D1-D7Pavement@dot.state.fl.us

Marlene Hebert

Marlene Hebert
District Materials Pavement Coordinator

V. Sea Coll

Vincent S Collie, PE 79305
District Pavement Evaluation Engineer

APPENDIX

1. Field Review Findings

2. Core Sample and Location Pictures

3. Core Data and Layout

4. Hand Augers Results

5. Illustration of Milling and Resurfacing Recommendation

6. Asphalt Survey Request

7. Project Location Map

APPENDIX 1

Field Review Findings

444008-1, SR 93/ I-75

MP 0.000 – 49.102

06/24/2019 – 06/28/2019

Reviewed by Brent Grubbs and Giovanni Spatazza

Roadway ID #: 03175000
MPH: 70

Milepost	Roadway Side	Age (years)	Cracking	Ride	Rutting
0.063 - 3.620	R	10.0	9.0	8.1	10.0
0.063 – 24.325	L	10.0	6.5	8.1	9.0
3.620 – 6.335	R	2.0	9.0	8.0	9.0
6.335 – 14.606	R	10.0	6.5	7.9	10.0
14.606 – 16.000	R	10.0	4.5	7.5	10.0
16.000 – 24.325	R	10.0	6.5	8.1	10.0
24.325 – 35.601	L	11.0	6.5	8.2	10.0
24.325 – 35.601	R	11.0	3.5	7.8	10.0
35.601 – 36.918	L	10.0	9.0	8.2	10.0
35.601 – 42.144	R	10.0	4.5	8.0	10.0
36.918 – 37.737	L	2.0	9.0	8.3	9.0
37.737 – 41.912	L	10.0	7.5	8.2	9.0
41.912 – 48.845	L	12.0	7.5	8.5	10.0
42.144 – 49.012	R	12.0	4.5	8.2	10.0
48.845 – 49.407	L	18.0	10.0	7.3	10.0
49.012 – 49.102	R	3.0	10.0	8.1	9.0

Right Roadway

R-1

MP 0.000 – 0.960, Fair condition, 0.2 rutting
Bridge, MP 0.960 – 1.028, Bridge approach slabs
MP 1.028 – 2.252, Fair condition, 0.2 rutting
Bridge, MP 2.252 – 2.274, Bridge approach slabs
MP 2.274 – 2.847, Fair condition, 0.2 rutting
Bridge, MP 2.847 – 2.877, Bridge approach slabs
MP 2.877 – 3.842, Fair condition, 0.2 rutting
Bridge, MP 3.842 – 3.865, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 3.865 – 5.900, Fair condition, 0.2 rutting
Bridge, MP 5.900 – 5.930, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 5.930 – 7.225, Fair condition, 0.2 rutting
Bridge, MP 7.225 – 7.248, Bridge approach slabs
MP 7.248 – 8.054, Fair condition, 0.2 rutting
Bridge, MP 8.054 – 8.098, Bridge approach slabs
MP 8.098 – 8.681, Fair condition, 0.2 rutting
Bridge, MP 8.681 – 8.704, Bridge approach slabs
MP 8.704 – 10.249, Fair condition, 0.2 rutting
Bridge, MP 10.249 – 10.279, Bridge approach slabs
MP 10.279 – 10.723, Fair condition, 0.2 rutting
Bridge, MP 10.723 – 10.746, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 10.746 – 11.156, Fair condition, 0.2 rutting
MP 11.156 – 11.423, 1 patch in left wheel path, light – moderate raveling with some patches on skip line, some delamination on skip line, **Pic 45 – 48**
Bridge, MP 11.423 – 11.445, Bridge approach slabs
MP 11.445 – 11.572, Patches, raveling, some delamination, **Pic 49 – 51**
MP 11.572 – 12.216, Fair condition, 0.2 rutting
Bridge, MP 12.216 – 12.239, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 12.239 – 12.999, Fair condition, 0.2 rutting
Bridge, MP 12.999 – 13.033, Bridge approach slabs
MP 13.033 – 13.979, Fair condition, 0.2 rutting
Bridge, MP 13.979 – 14.001, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 14.001 – 14.584, Fair condition, 0.2 rutting
Bridge, MP 14.584 – 14.606, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 14.606 – 15.947, Fair condition, 0.2 rutting
Bridge, MP 15.947 – 15.970, Bridge approach slabs
MP 15.970 – 17.062, Fair condition, 0.2 rutting
Bridge, MP 17.062 – 17.084, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 17.084 – 17.828, Fair condition, 0.2 rutting
Bridge, MP 17.828 – 17.863, bridge approach slabs
MP 17.863 – 21.020, Fair 0.2 rutting
Bridge, MP 21.020 – 21.050, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 21.050 – 22.112, Fair condition, 0.2 rutting
Bridge, MP 22.112 – 22.134, Bridge approach slabs
MP 22.134 – 22.757, Fair condition, 0.2 rutting
Bridge, MP 22.757 – 22.767, Fair condition, asphalt pavement on bridge deck, bridge approach slabs

MP 22.767 – 23.302, Fair condition, 0.2 rutting
Bridge, MP 23.302 – 23.325, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 23.325 – 23.805, Fair condition, 0.2 rutting
Bridge, MP 23.783 – 23.805, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 23.805 – 24.286, Fair condition, 0.2 rutting
Bridge, MP 24.286 – 24.325, Bridge approach slabs
MP 24.325 – 25.101, Fair condition, 0.2 rutting
Bridge, MP 25.101 – 25.124, Bridge approach slabs
MP 25.124 – 26.066, Fair condition, 0.2 rutting
Bridge, MP 26.066 – 26.088, Bridge approach slabs
MP 26.088 – 27.050, Fair condition, 0.2 rutting
Bridge, MP 27.050 – 27.072, Fair condition, asphalt pavement on bridge deck
MP 27.072 – 30.169, Fair condition, 0.2 rutting
Bridge, MP 30.169 – 30.192, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 30.192 – 30.789, Fair condition, 0.2 rutting
Bridge, 30.789 – 30.814, Bridge approach slabs
MP 30.814 – 31.323, Fair condition, 0.2 rutting
Bridge, MP 31.323 – 31.345, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 31.345 – 31.749, Fair condition, rim marks, 0.2 rutting
MP 31.749 – 31.755, Raveling, delamination in left wheel path, **Pic 52**
MP 31.755 – 31.914, Fair condition, rim marks, 0.2 rutting
Bridge, MP 31.914 – 31.960, Bridge approach slabs
MP 31.960 – 32.475, Fair condition, 0.2 rutting
Bridge, MP 32.475 – 32.497, Bridge approach slabs
MP 32.497 – 32.912, Fair condition, 0.2 rutting
Bridge, MP 32.912 – 32.935, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 32.935 – 32.943, Fair condition, 0.2 rutting
MP 32.943 – 32.953, Delamination with patches, **Pic 53**
MP 32.953 – 32.981, Fair condition, 0.2 rutting
MP 32.981 – 33.007, Delamination on skip line, **Pic 54**
MP 33.007 – 33.517, Fair condition, 0.2 rutting
Bridge, MP 33.517 – 33.539, Asphalt pavement on bridge deck, rim marks, bridge approach slabs
MP 33.539 – 33.774, Fair condition, 0.2 rutting
Bridge, MP 33.774 – 33.819, Bridge approach slabs
MP 33.819 – 34.580, Fair condition, rim marks, 0.2 rutting
Bridge, MP 34.580 – 34.602, Asphalt pavement on bridge deck, rim marks, bridge approach slabs
MP 34.602 – 35.579, Fair condition, rim marks, 0.2 rutting
Bridge, MP 35.579 – 35.601, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 35.601 – 36.770, Fair condition, 0.2 rutting
Bridge, MP 36.770 – 36.792, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 36.792 – 38.217, Fair condition, 0.2 rutting
Bridge, MP 38.217 – 38.241, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 38.241 – 40.237, Fair condition, 0.2 rutting
Bridge, MP 40.237 – 40.258, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 40.258 – 42.212, Fair condition, 0.2 rutting
Bridge, 42.212 – 42.231, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 42.231 – 49.034, Fair condition, 0.2 rutting
MP 49.034 – 49.102, Pavement change, good condition.

R-2

MP 0.000 – 0.960, Fair condition, rim marks, 0.2 rutting, edge line cracking
Bridge, **MP 0.960 – 1.028,** bridge approach slabs
MP 1.028 – 2.252, Fair condition, rim marks, 0.2 rutting
Bridge, **MP 2.252 – 2.274,** bridge approach slabs
MP 2.274 – 2.847, Fair condition, rim marks, 0.2 rutting
Bridge, **MP 2.847 – 2.877,** bridge approach slabs
MP 2.877 – 3.751, Some edge line cracking, fair condition, rim marks, 0.2 rutting
MP 3.571 – 3.758, depression 1" in depth in right wheel path, depression ¾" in depth in left wheel path
MP 3.758 – 3.842, Fair condition, rim marks, 0.2 rutting
Bridge, **MP 3.842 – 3.865**, Fair condition, asphalt pavement on bridge deck, rim marks, bridge approach slabs
MP 3.865 – 5.329, Fair condition, rim marks, some edge line cracking, 0.2 rutting
MP 5.329 – 5.343, Moderate longitudinal cracking in right wheel path, some lime rock pumping, **Pic 4-6.**
MP 5.343 – 5.900, Fair condition, rim marks, 0.2 rutting, some edge line cracking
Bridge, MP 5.900 – 5.930, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 5.930 – 6.765, Fair condition, rim marks, 0.2 rutting
MP 6.765 – 6.790, Patch, good condition
MP 6.790 – 6.818, Fair condition, rim marks, edge line cracking
MP 6.818 – 6.825, Severe longitudinal cracking with lime rock pumping in right wheel path, 0.4 – 0.6 rutting, **Pic 7-9**
MP 6.825 – 7.193, Fair condition, rim marks, 0.2 rutting
MP 7.193 – 7.198, Moderate longitudinal cracking with lime rock pumping, 0.4 – 0.6 rutting, **Pic 10-11**
MP 7.198 – 7.225, Fair condition, rim marks, 0.2 rutting
Bridge, MP 7.225 – 7.248, bridge approach slabs
MP 7.248 – 8.054, Fair condition, rim marks, 0.2 rutting
Bridge, MP 8.054 – 8.098, bridge approach slabs
MP 8.098 – 8.102, Some severe longitudinal cracking on top of bridge approach slab
MP 8.102 – 8.116, Moderate to severe block cracking with lime rock pumping in right wheel path and patches, **Pic 12**
MP 8.116 – 8.123, Moderate to severe block cracking, lime rock pumping and patch in left and right wheel path, **Pic 13**
MP 8.123 – 8.148, Moderate to serve block cracking with lime rock pumping and patch in right wheel path**, Pic 14-15**
MP 8.148 – 8.425, Fair condition, rim marks, 0.2 rutting
MP 8.425 – 8.429, Severe block cracking with lime rock pumping in right wheel path, **Pic 16**
MP 8.429 – 8.475, Fair condition, rim marks, 0.2 rutting
MP 8.475 – 8.486, Severe block cracking with lime rock pumping in right wheel path and patch, **Pic 17**
MP 8.486 – 8.516, Fair condition, rim marks, 0.2 rutting
MP 8.516 – 8.532, Severe block cracking with lime rock pumping, patch, 0.4 – 0.5 rutting right wheel path, **Pic 18**
MP 8.532 – 8.555, Severe block cracking with lime rock pumping, patch, 0.4 – 0.5 rutting, right wheel path with some in left wheel path, **Pic 19**
MP 8.555 – 8.681, Fair condition, rim marks, 0.2 rutting
Bridge, MP 8.681 – 8.704, bridge approach slabs
MP 8.704 – 8.768, Fair condition, rim marks, 0.2 rutting
MP 8.768 – 8.810, Moderate longitudinal cracking with some severe block cracking in right wheel path, **Pic 20-21**
MP 8.810 – 8.878, Some moderate transverse cracking in right wheel path, rim marks, 0.2 rutting
MP 8.878 – 8.955, Fair condition with rim marks, 0.2 rutting
MP 8.955 – 8.973, Moderate to severe block cracking with lime rock pumping in right and left wheel paths

MP 8.973 – 9.278, Fair condition, rim marks, 0.2 rutting
MP 9.278 – 9.290, Moderate to severe block cracking with lime rock pumping in right wheel path, **Pic 22**
MP 9.290 – 9.495, Fair condition, rim marks, 0.2 rutting
MP 9.495 – 9.517, Light to moderate transverse cracking, lime rock pumping in right wheel path, **Pic 23**
MP 9.517 – 10.249, Fair condition, rim marks, 0.2 rutting
Bridge, MP 10.249 – 10.279, bridge approach slabs
MP 10.279 – 10.723, Fair condition, rim marks, 0.2 rutting
Bridge, MP 10.723 – 10.746, Fair condition, rim marks, asphalt pavement on bridge deck
MP 10.746 – 10.792, Fair condition, rim marks, 0.2 rutting
MP 10.792 – 10.820, Moderate to severe block cracking with 0.4 – 0.5 rutting, lime rock pumping, right wheel path, **Pic 24**
MP 10.820 – 11.030, Fair condition, rim marks, 0.2 rutting
MP 11.030 – 11.055, Severe block cracking with lime rock pumping, patch, and 0.4 – 0.5 rutting in right wheel path, **Pic 25**
MP 11.055 – 11.423, Fair condition, rim marks, 0.2 rutting
Bridge, MP 11.423 – 11.445, bridge approach slabs
MP 11.445 – 12.216, Fair condition, rim marks, 0.2 rutting
Bridge, MP 12.216 – 12.239, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 12.239 – 12.999, Fair condition, rim marks, 0.2 rutting
Bridge, MP 12.999 – 13.033, bridge approach slabs
MP 13.033 – 13.399, Fair condition, rim marks, 0.2 rutting
MP 13.399 – 13.413, Severe block cracking with lime rock pumping, 0.6 rutting in left and right wheel path, **Pic 27**
MP 13.040, Severe pothole on bridge approach slab, **Pic 26**
MP 13.413 – 13.559, Fair condition, rim marks, 0.2 rutting
MP 13.559 – 13.575, Severe block cracking, lime rock pumping, 0.6 rutting, patch, **Pic 28**
MP 13.575 – 13.590, Fair condition, rim marks, 0.2 rutting
MP 13.590 – 13.599, Severe transverse cracking with lime rock pumping in left wheel path, **Pic 29**
MP 13.599 – 13.784, Fair condition, rim marks, 0.2 rutting
MP 13.784 – 13.794, Moderate transverse cracking with lime rock pumping in left wheel path, **Pic 30**
MP 13.794 – 13.979, Fair condition, rim marks, 0.2 rutting, some worming
Bridge, MP 13.979 – 14.001, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 14.606 – 15.164, Fair condition, rim marks, 0.2 rutting
MP 15.164 – 15.167, Severe transverse cracking with lime rock pumping in right wheel path, **Pic 31**
MP 15.167 – 15.216, Fair condition, rim marks, 0.2 rutting
MP 15.216 – 15.266, Severe block cracking with lime rock pumping and patch in left wheel path, **Pic 32-33**
MP 15.266 – 15.380, Fair condition, rim marks, 0.2 rutting
MP 15.380 – 15.513, Moderate to severe block cracking with lime rock pumping, patches in right wheel path, **Pic 34-36**
MP 15.513 – 15.575, Moderate block cracking, lime rock pumping in left and right wheel path, patches in right wheel path, **Pic 37**
MP 15.575 – 15.765, Moderate to severe block cracking with lime rock pumping and patches in right wheel path, some moderate to severe block cracking with lime rock pumping in left wheel path, **Pic 38-39**
MP 15.765 – 15.823, Patch, light to moderate block cracking with lime rock pumping, 0.3 rutting, **Pic 40**
MP 15.823 – 15.850, Severe block cracking, lime rock pumping, potholes, patch in right wheel path, **Pic 41**
MP 15.850 – 15.947, Fair condition, rim marks, 0.2 rutting
Bridge, MP 15.947 – 15.970, bridge approach slabs
MP 15.970 – 15.991, Fair condition, rim marks, 0.2 rutting
MP 15.991 – 16.004, Fair condition, patch, 0.2 rutting
MP 16.004 – 17.062, Fair condition, rim marks, 0.2 rutting

Bridge, 17.062 – 17.084, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
17.084 – 17.828, Fair condition, rim marks, 0.2 rutting, some edge line cracking
Bridge, MP 17.828 – 17.863, bridge approach slabs
MP 17.863 – 21.023, Fair condition, rim marks, 0.2 rutting, some edge line cracking
Bridge, MP 21.020 – 21.050, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 21.050 – 21.630, Fair condition, rim marks, 0.2 rutting
MP 21.630 – 21.641, Severe raveling and delamination in right wheel path with edge line cracking, **Pic 42**
MP 21.641 – 22.112, Fair condition, rim marks, 0.2 rutting, some edge line cracking
Bridge, MP 22.112 – 22.134, bridge approach slabs
MP 22.134 – 22.757, Fair condition, rim marks, 0.2 rutting, edge line cracking
Bridge, MP 22.757 – 22.787, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 22.787 - 23.302, Fair condition, rim marks, 0.2 rutting, some edge line cracking
Bridge, 23.302 – 23.325, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
23.325 – 23.783, Fair condition, rim marks, edge line cracking, 0.2 rutting
Bridge MP 23.783 – 23.805, Fair condition, rim marks, asphalt on bridge deck, bridge approach slabs
MP 23.805 -24.286, Fair condition, rim marks, 0.2 rutting, some edge line cracking
Bridge, MP 24.286 – 24.325, bridge approach slabs
MP 24.325 – 24.353, Patch
MP 24.335 – 24.351, Light to moderate raveling, rim marks, 0.2 rutting
MP 24.351 – 25.101, Fair condition, rim marks, 0.2 rutting
Bridge, 25.101 – 25.124, bridge approach slabs
25.124 – 26.066, Fair condition, rim marks, 0.2 rutting
Bridge, MP 26.066 – 26.088, bridge approach slabs
MP 26.088 – 27.050, Fair condition, rim marks, 0.2 rutting
Bridge, MP 27.050 – 27.072, Fair condition, rim marks, asphalt on bridge deck
MP 27.072 – 28.588, Fair condition, rim marks, 0.2 rutting
MP 28.588 – 28.606, Moderate transverse cracking with lime rock pumping in right wheel path, **Pic 43**
MP 28.606 – 30.169, Fair condition, rim marks, 0.2 rutting
MP 30.169 – 30.192, Fair condition, rim marks, asphalt on bridge deck
MP 30.192 – 30.789, Fair condition, rim marks, 0.2 rutting
Bridge, MP 30.789 – 30.814, bridge approach slabs
MP 30.814 – 31.323, Fair condition, rim marks, 0.2 rutting
Bridge, MP 31.323 – 31.345, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 31.345 – 31.914, Fair condition, rim marks, 0.2 rutting
Bridge, MP 31.914 – 31.960, bridge approach slabs
MP 31.960 – 32.475, Fair condition, rim marks, 0.2 rutting, light longitudinal cracking in right wheel path
Bridge, MP 32.475 – 32.497, bridge approach slabs
MP 32.497 – 32.912, Fair condition, rim marks, 0.2 rutting, light longitudinal cracking in right wheel path
Bridge, MP 32.912 – 32.935, bridge approach slabs, severe pothole at MP 32.912, between approach slab and bridge deck, **Pic 44**
MP 32.935 – 33.517, Fair condition, rim marks, 0.2 rutting, light longitudinal cracking in right wheel path
Bridge, MP 33.517 – 33.539, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 33.539 – 33.774, Fair condition, rim marks, 0.2 rutting, some edge line cracking
Bridge, MP 33.774 – 33.819, bridge approach slabs
MP 33.819 – 34.580, Fair condition, rim marks, 0.2 rutting
Bridge, 34.580 – 34.602, Fair condition, rim marks, asphalt on bridge deck, bridge approach slabs
34.602 – 35.579, Fair condition, rim marks, 0.2 rutting
Bridge, MP 35.579 – 35.601, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 35.601 – 36.770, Fair condition, rim marks, 0.2 rutting

Bridge, MP 36.770 – 36.792, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 36.792 – 38.217, Fair condition rim marks, 0.2 rutting
Bridge, MP 38.217 – 38.241, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 38.241 – 40.237, Fair condition, rim marks, 0.2 rutting
Bridge, MP 40.237 – 40.258, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 40.258 – 42.212, Fair condition, rim marks, 0.2 rutting, worming
Bridge, MP 42.212 – 42.231, Fair condition, rim marks, asphalt pavement on bridge deck, bridge approach slabs
MP 42.231 – 48.989, Fair condition, rim marks, 0.2 rutting
MP 48.989 – 49.102, Pavement change, fair condition.

R-3
MP 19.991 – 20.237, Fair condition
MP 41.554 – 41.851, Fair condition

Left Roadway

L-1
MP 49.102 – 0.000, Fair condition, 0.2 rutting, rim marks, worming
MP 49.102 – 48.990, Light longitudinal cracking in left wheel path
Bridge, MP 42.231 – 42.212, Bridge approach slabs
Bridge, MP 40.258 – 40.237, Bridge approach slabs
Bridge, MP 38.241 – 38.217, Asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 36.792 – 36.770, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 35.601 – 35.579, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 34.602 – 34.580, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 33.819 – 33.774, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 33.539 – 33.517, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 32.935 – 32.912, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 32.497 – 32.475, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 31.960 – 31.914, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 31.345 – 31.323, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 30.814 – 30.789, Bridge approach slabs
Bridge, MP 30.192 – 30.169, Bridge approach slabs
Bridge, MP 27.072 – 27.050, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 26.088 – 26.066, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 25.124 – 25.101, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 24.325 – 24.286, Bridge approach slabs
Bridge, MP 23.805 – 23.783, Bridge approach slabs
Bridge, MP 23.325 – 23.302, Bridge approach slabs
Bridge, MP 22.787 – 22.757, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 22.134 – 22.112, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 21.050 – 21.020, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 17.863 – 17.828, Bridge approach slabs
Bridge, MP 17.084 – 17.062, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 15.970 – 15.947, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 14.606 – 14.584, Bridge approach slabs
Bridge, MP 14.001 – 13.979, Bridge approach slabs

Bridge, MP 13.033 – 12.999, Bridge approach slabs
Bridge, MP 12.239 – 12.216, Bridge approach slabs
Bridge, MP 11.445 – 11.423, Bridge approach slabs
Bridge, MP 10.746 – 10.723, Bridge approach slabs
Bridge, MP 10.279 – 10.249, Bridge approach slabs
Bridge, MP 8.704 – 8.681, Bridge approach slabs
Bridge, MP 8.098 – 8.054, Bridge approach slabs
Bridge, MP 7.248 – 7.225, Bridge approach slabs
Bridge, MP 5.930 – 5.900, Bridge approach slabs
Bridge, MP 3.865 – 3.842, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
Bridge, MP 2.877 – 2.847, Bridge approach slabs
Bridge, MP 2.274 – 2.252, Bridge approach slabs
Bridge, MP 1.028 – 0.960, Bridge approach slabs

L-2

MP 49.102 – 46.877, Some light longitudinal cracking, edge line cracking, some worming, rim marks, 0.2 rutting
MP 46.877 – 46.859, Moderate raveling, edge line cracking, 0.2 rutting
MP 46.859 – 45.222, Fair condition, 0.2 rutting, some worming, edge line cracking
MP 45.222 – 45.206, Moderate longitudinal and transverse cracking between shoulder and edge line, edge line cracking
MP 45.206 – 44.657, Fair condition, rim marks, edge line cracking, 0.2 rutting
MP 44.657 – 44.630, Light to moderate raveling, rim marks, 0.2 rutting, edge line cracking
MP 44.630 – 44.034, Fair condition, edge line cracking, rim marks, 0.2 rutting
MP 44.034 – 44.055, Light to moderate longitudinal and transverse cracking between white line and shoulder, edge line cracking
MP 44.055 – 43.371, Fair condition, edge line cracking, 0.2 rutting
MP 43.371 – 43.340, Fair condition, light to moderate longitudinal and transverse cracking between white line and shoulder
MP 43.340 – 43.256, Fair condition, light to moderate longitudinal and transverse cracking between shoulder and white line
MP 43.256 – 42.231, Fair condition, 0.2 rutting
Bridge, MP 42.231 – 42.212, bridge approach slabs
MP 42.212 – 42.127, Light raveling
MP 42.127 – 41.538, Edge line cracking, light transverse cracking between white line and **L-3**
MP 41.538 – 40.258, Fair condition, some light edge line cracking, 0.2 rutting
Bridge, MP 40.258 – 40.237, bridge approach slabs
MP 40.237 – 38.241, Fair condition, rim marks, 0.2 rutting
Bridge, MP 38.241 – 38.217, asphalt pavement on bridge deck, bridge approach slabs
MP 38.217 – 36.792, Fair condition, rim marks, 0.2 rutting
Bridge, **MP 36.792 – 36.770**, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 36.770 – 35.601, Fair condition, rim marks, 0.2 rutting
Bridge, **MP 35.601 – 35.579**, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 35.579 – 35.551, Light raveling, rim marks, 0.2 rutting
MP 35.551 – 34.602, Fair condition, rim marks, 0.2 rutting, some worming
Bridge, **MP 34.602 – 34.580,** Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 34.580 – 33.819, Fair condition, rim marks, 0.2 rutting, some worming
Bridge, **MP 33.819 – 33.774**, Fair condition, asphalt pavement on bridge deck, bridge approach slabs

MP 33.774 – 33.539, Fair condition, rim marks, 0.2 rutting
Bridge, **MP 33.539 – 33.517**, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 33.517 – 32.935, Fair condition, rim marks, 0.2 rutting, some worming
Bridge, **MP 32.935 – 32.912**, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 32.912 – 32.497, Fair condition, rim marks, 0.2 rutting
Bridge, MP 32.497 – 32.475, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 32.475 – 31.960, Fair condition, Rim marks, 0.2 rutting, some worming
Bridge, MP 31.960 – 31.914, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 31.914 – 31.345, Fair condition, rim marks, 0.2 rutting
Bridge, MP 31.345 – 31.323, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 31.323 – 30.814, Fair condition, rim marks, 0.2 rutting, some worming
Bridge, MP 30.814 – 30.789, bridge approach slabs
MP 30.789 – 30.192, Fair condition, rim marks, 0.2 rutting, some rutting
Bridge, MP 30.192 – 30.169, bridge approach slabs
MP 30.169 – 27.072, Fair condition, rim marks, 0.2 rutting, some worming
Bridge, MP 27.072 – 27.050, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 27.050 – 26.088, Fair condition, rim marks, some light longitudinal cracking in the Right wheel path, 0.2 rutting
Bridge, MP 26.088 – 26.066, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 26.066 – 25.124, Fair condition, rim marks, 0.2 rutting
Bridge, MP 25.124 – 25.101, Fair condition, asphalt on bridge deck, bridge approach slabs
MP 25.101 – 24.325, Fair condition, rim marks, 0.2 rutting
Bridge, MP 24.325 – 24.286, bridge approach slabs
MP 24.286 – 23.805, Fair condition, rim marks, 0.2 rutting
Bridge, MP 23.85 – 23.783, bridge approach slabs
MP 23.783 – 23.325, Fair condition, rim marks, 0.2 rutting
Bridge, MP 23.325 – 23.302, bridge approach slabs
MP 23.302 – 22.787, Fair condition, rim marks, 0.2 rutting
Bridge, MP 22.787 – 22.757, Fair condition, asphalt on bridge deck, bridge approach slabs
MP 22.757 – 22.134, Fair condition, rim marks, 0.2 rutting
Bridge, MP 22.134 – 22.112, Fair condition, asphalt on bridge deck, bridge approach slabs
MP 22.112 – 21.050, Fair condition, rim marks, 0.2 rutting
Bridge, MP 21.050 – 21.020, Fair condition, asphalt pavement on bridge deck, bridge approach slabs
MP 21.020, 19.100, Fair condition, rim marks, 0.2 rutting
MP 19.100 – 17.863, Fair Condition, rim marks, 0.2 rutting, edge line cracking
Bridge, MP 17.863 – 17.828, bridge approach slabs
MP 17.828 – 17.084, Fair condition, rim marks, 0.2 rutting
Bridge, MP 17.084 – 17.062, Fair condition, asphalt, on bridge deck, bridge approach slabs
MP 17.062 – 15.970, Fair condition, rim marks, 0.2 rutting
Bridge, MP 15.970 – 15.947, Fair condition, asphalt on bridge deck, bridge approach slabs
MP 15.947 – 14.606, Fair condition, rim marks, 0.2 rutting
Bridge, MP 14.606 – 14.584, bridge approach slabs
MP 14.584 – 14.003, Fair condition, rim marks, 0.2 rutting
MP 14.003 – 14.001, bridge approach slabs, moderate longitudinal cracking in Right wheel path
Bridge, 14.001 – 13.979, bridge approach slabs
MP 13.979 – 13.033, Fair condition, rim marks, 0.2 rutting
Bridge, MP 13.033 – 12.999, bridge approach slabs
MP 12.999 – 12.239, Fair condition, rim marks, 0.2 rutting
Bridge, MP 12.239 – 12.216, bridge approach slabs
MP 12.216 – 11.445, Fair condition, rim marks, 0.2 rutting

Bridge, MP 11.445 – 11.423, bridge approach slabs
MP 11.423 – 10.746, Fair condition, rim marks, 0.2 rutting
Bridge, 10.746 – 10.723, bridge approach slabs
MP 10.723 – 10.279, Fair condition, rim marks, 0.2 rutting
Bridge, MP 10.279 – 10.249, bridge approach slabs
MP 10.249 – 8.704, Fair condition, rim marks, 0.2 rutting
Bridge, 8.704 – 8.681, bridge approach slabs
MP 8.681 – 8.098, Fair condition, rim marks, 0.2 rutting
Bridge, MP 8.098 – 8.054, bridge approach slabs
MP 8.054 – 7.248, Fair condition, Rim marks, 0.2 rutting
Bridge, 7.248 – 7.225, bridge approach slabs
MP 7.225 – 5.930, Fair condition, rim marks, 0.2 rutting
Bridge, MP 5.930 – 5.900, Bridge approach slabs
MP 5.900 – 3.865, Fair condition, rim marks, 0.2 rutting, edge line cracking
Bridge, MP 3.865 – 3.842, Fair condition, asphalt on bridge deck, bridge approach slabs
MP 3.842 – 2.877, Fair condition, rim marks, 0.2 rutting, edge line cracking
Bridge, MP 2.877 – 2.847, Bridge approach slabs
MP 2.847 – 2.274, Fair condition, rim marks, 0.2 rutting, edge line cracking
Bridge, MP 2.274 – 2.252, Bridge approach slabs
MP 2.252 – 1.028, Fair Condition, rim marks, 0.2 rutting, edge line cracking
Bridge, MP 1.028 – 0.960, Bridge approach slabs
MP 0.960 – 0.059, Fair condition, rim marks, 0.2 rutting, edge line cracking
MP 0.059 – 0.057, Severe raveling
MP 0.057 – 0.000, Fair condition, rim marks, 0.2 rutting

L-3
MP 19.531 – 19.331, Fair condition
MP 41.684 – 41.538, Fair condition

Shoulder – 4 lanes, outside and inside shoulder
Outside shoulder, 8'-10', light cracking
Inside shoulder, 4', some light cracking

MP 5.467 – 5.488, Right roadway, outside shoulder, patch, moderate to severe block cracking
MP 6.765 – 6.790, Right roadway, outside shoulder, patch, good condition
MP 22.180 – 22.183, Right roadway, outside shoulder, patch, fair condition

Eastbound Ramp
Ramp SR 29 Eastbound OFF, some worming, fair condition
Ramp SR 29 Eastbound ON, some worming, fair condition

Westbound Ramp
Ramp SR 29 Westbound OFF, fair condition
Ramp SR 29 Westbound ON, Fair condition

Official Use Only Crossover
Some crossovers in fair condition
Some have moderate block cracking, longitudinal cracking and transverse cracking


Picture 1

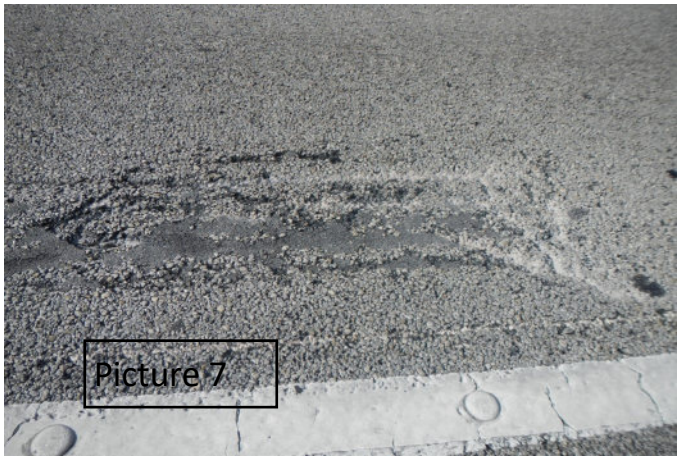

Picture 2


Picture 3

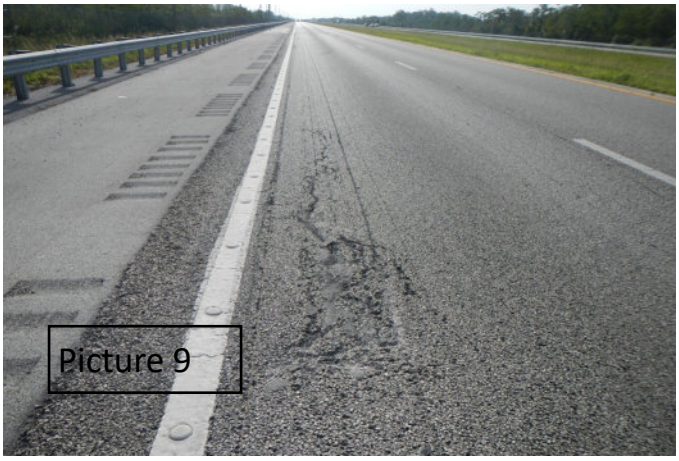

Picture 4

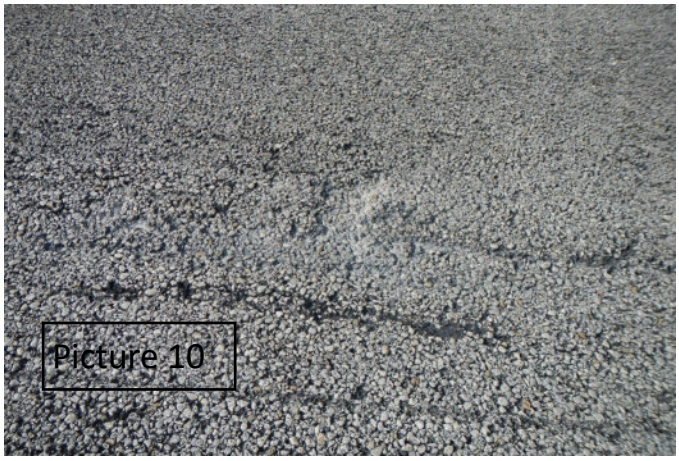

Picture 5

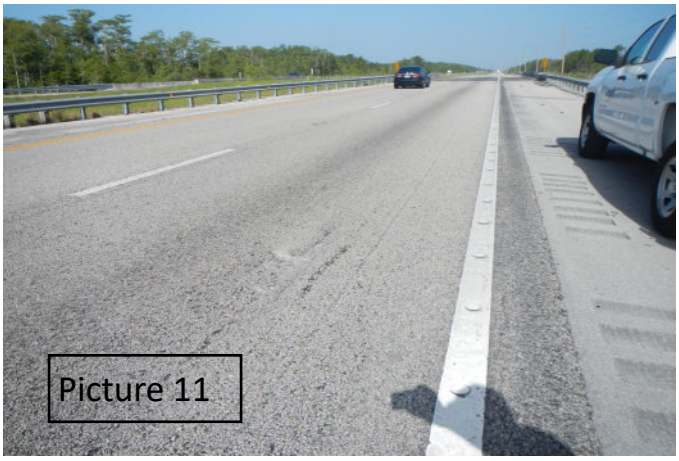

Picture 6


Picture 7


Picture 8


Picture 9


Picture 10


Picture 11


Picture 12


Picture 13


Picture 14


Picture 15


Picture 16


Picture 17


Picture 18


Picture 19


Picture 20


Picture 21


Picture 22


Picture 23


Picture 24


Picture 25


Picture 26


Picture 27


Picture 28


Picture 29


Picture 30


Picture 31


Picture 32

Picture 33

Picture 34

Picture 35

Picture 36

Picture 37

Picture 38

Picture 39

Picture 40


Picture 41


Picture 42


Picture 43


Picture 44


Picture 45


Picture 46


Picture 47


Picture 48


Picture 49


Picture 50


Picture 51


Picture 52


Picture 53


Picture 54

APPENDIX 2

Core Sample and Location Pictures

CORE 1

Field View

Profile View


CORE 2

Field View

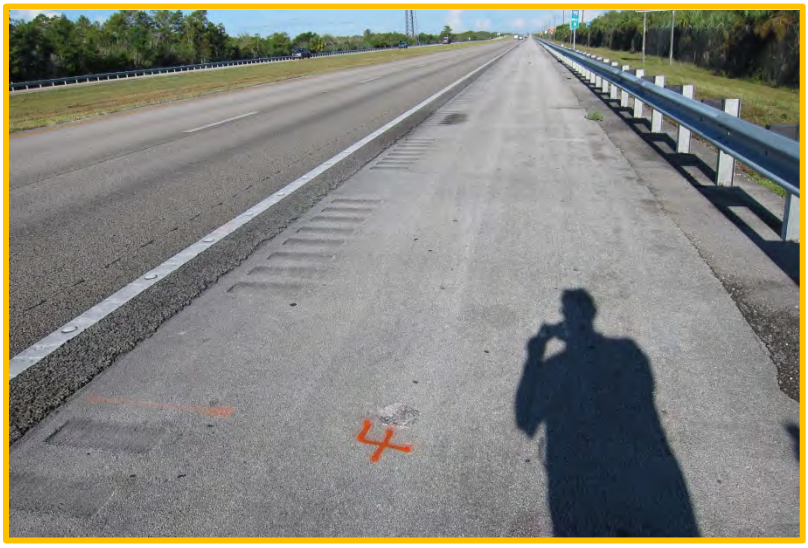
Profile View


CORE 3

Field View

Profile View


CORE 4

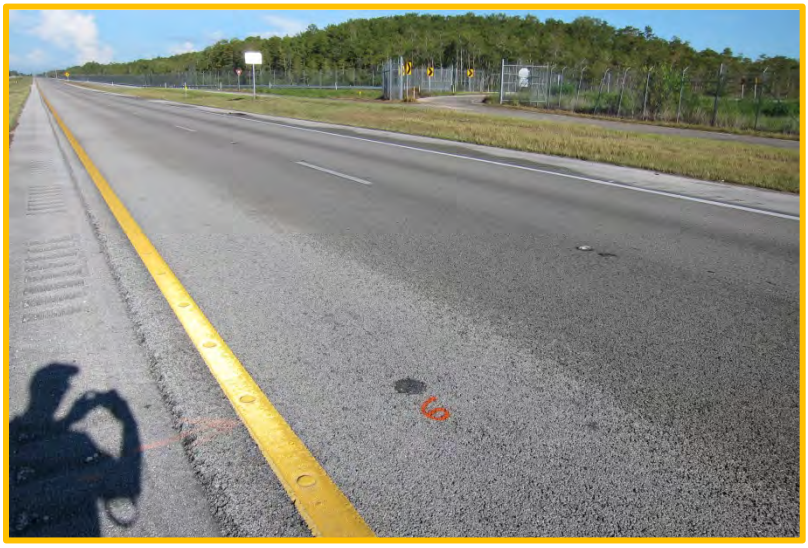
Field View

Profile View


CORE 5

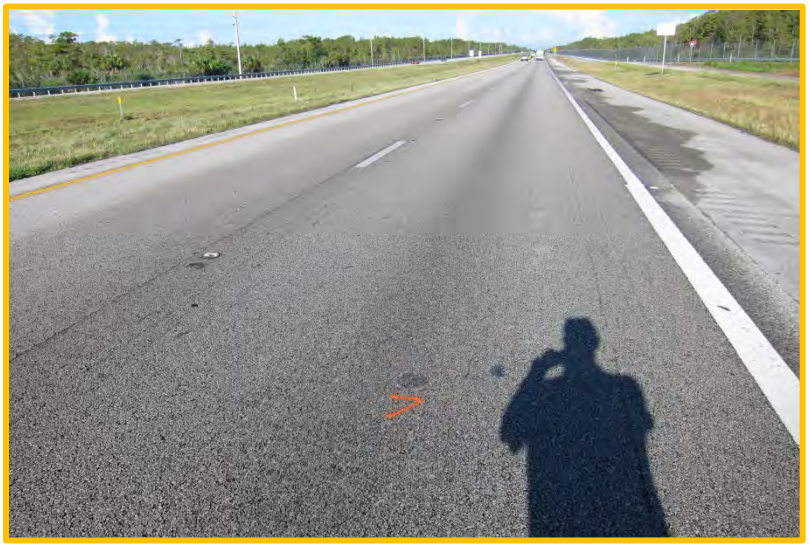
Field View

Profile View


CORE 6

Field View

Profile View


CORE 7

Field View

Profile View


CORE 8

Field View

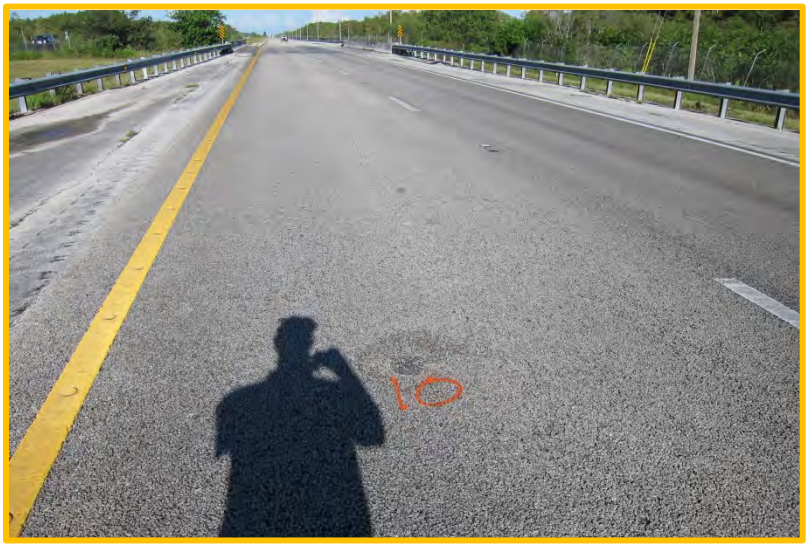
Profile View


CORE 9

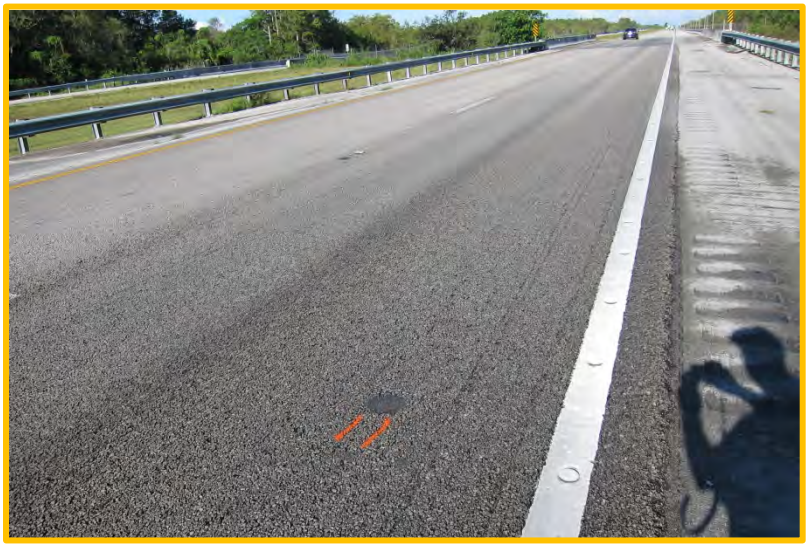
Field View

Profile View


CORE 10

Field View

Profile View


CORE 11

Field View

Profile View


CORE 12

Field View

Profile View


CORE 13

Field View

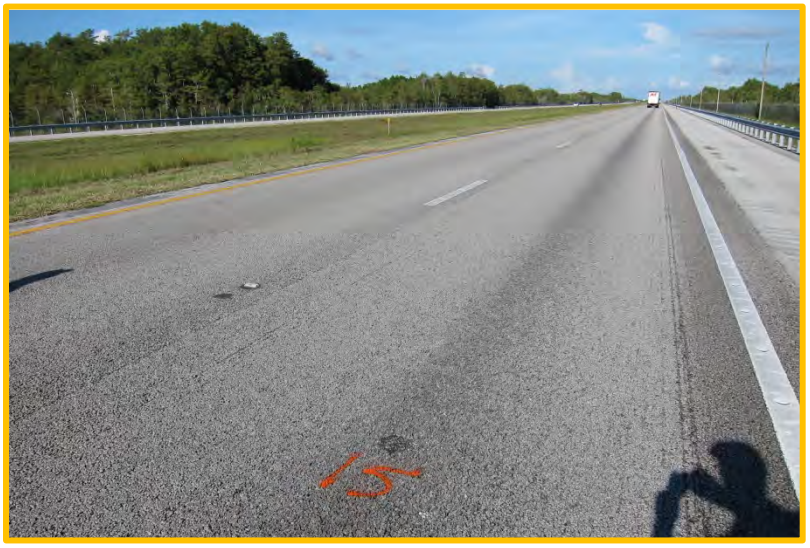
Profile View


CORE 14

Field View

Profile View

CORE 15

Field View

Profile View


CORE 16

Field View

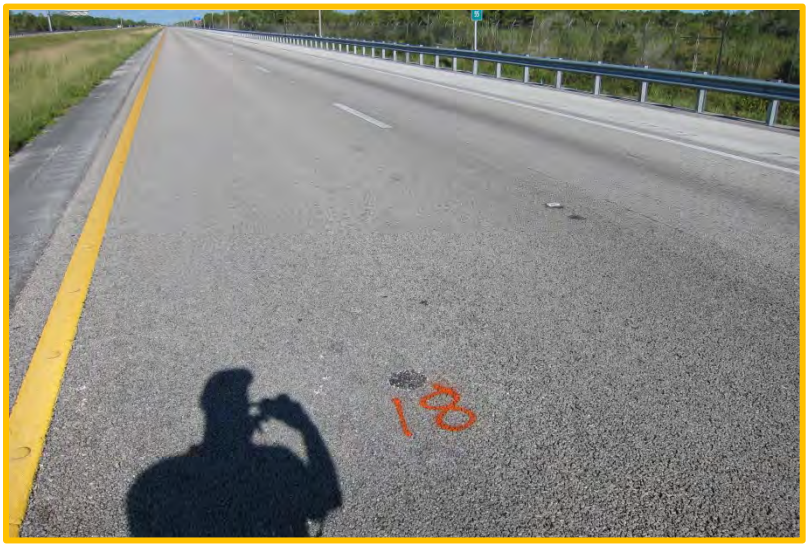
Profile View


CORE 17

Field View

Profile View


CORE 18

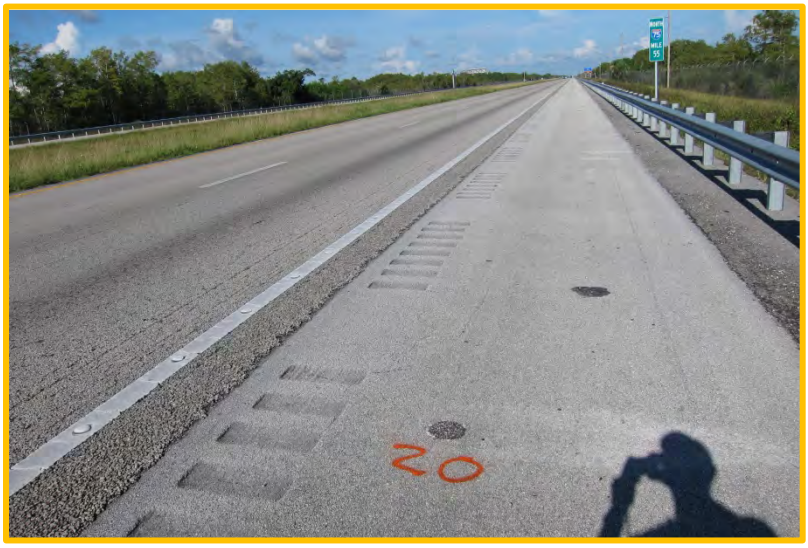
Field View

Profile View


CORE 19

Field View

Profile View


CORE 20

Field View

Profile View


CORE 21

Field View

Profile View


CORE 22

Field View

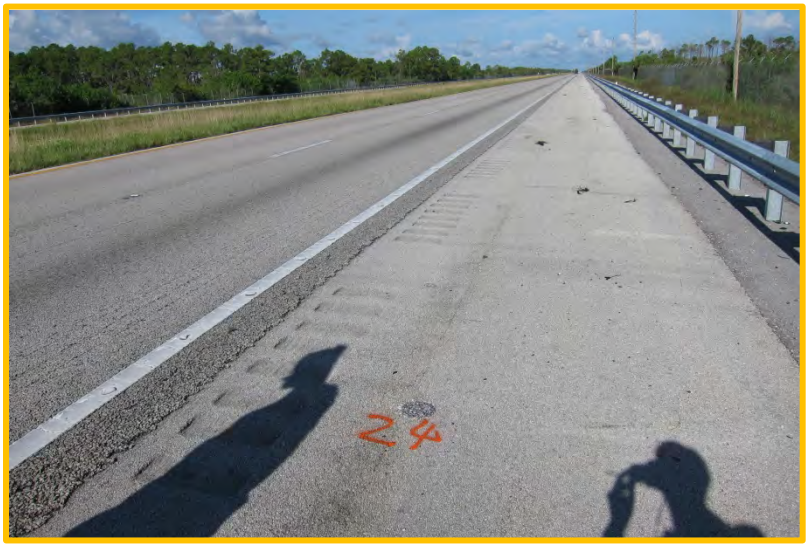
Profile View


CORE 23

Field View

Profile View


CORE 24

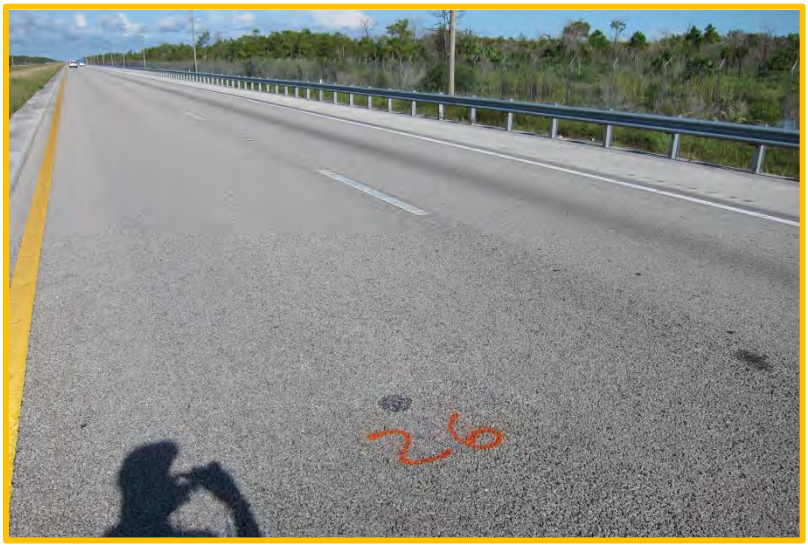
Field View

Profile View


CORE 25

Field View

Profile View


CORE 26

Field View

Profile View


CORE 27

Field View

Profile View

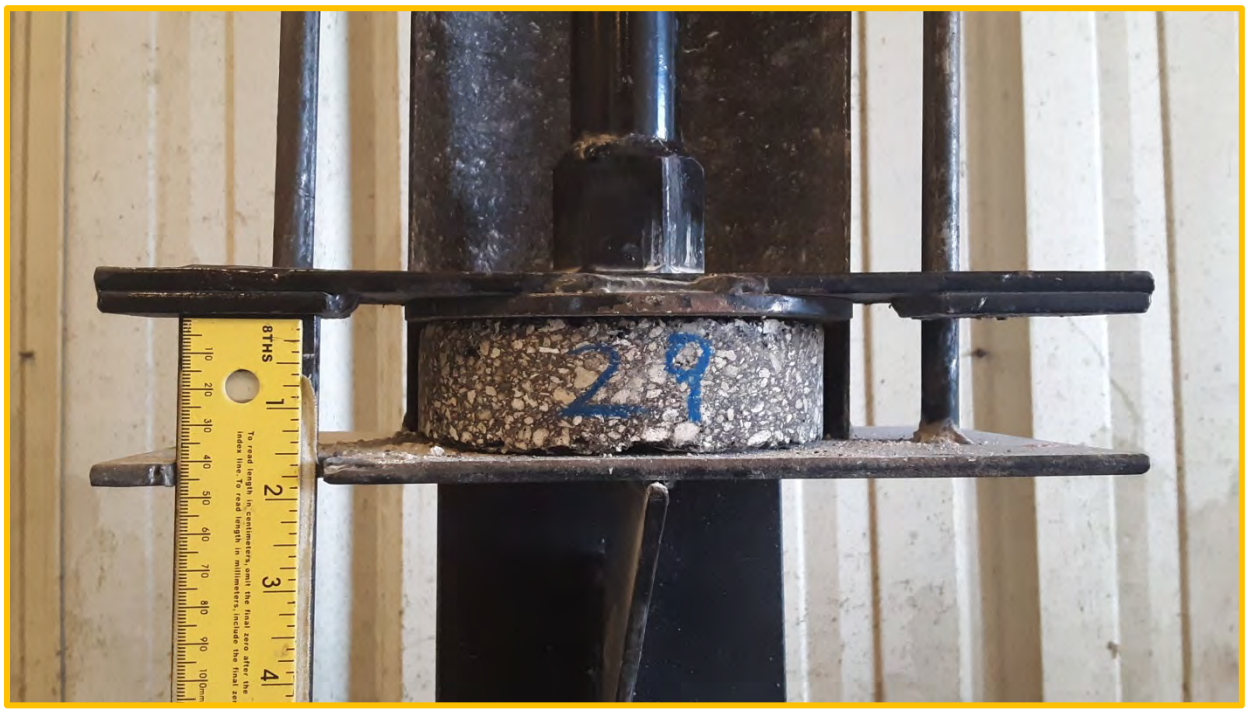

CORE 28

Field View

Profile View


CORE 29

Field View

Profile View


CORE 30

Field View

Profile View


CORE 31

Field View

Profile View


CORE 32

Field View

Profile View

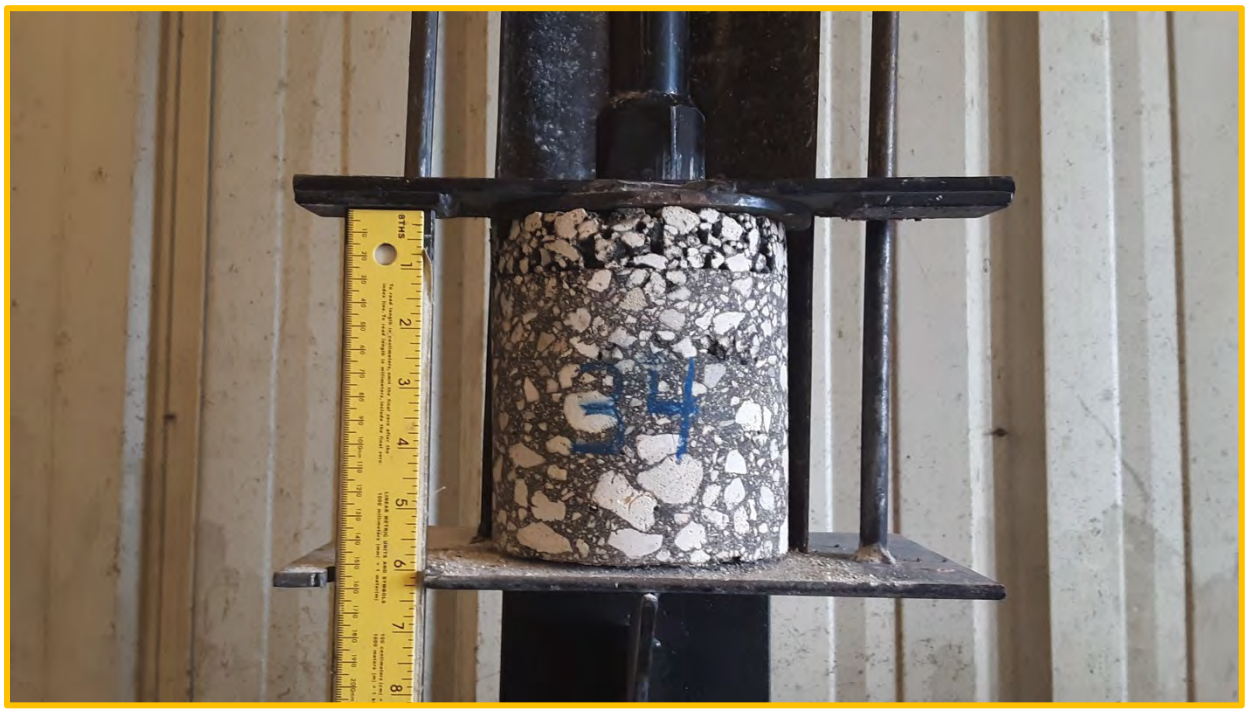

CORE 33

Field View

Profile View


CORE 34

Field View

Profile View


CORE 35

Field View

Profile View


CORE 36

Field View

Profile View


CORE 37

Field View

Profile View


CORE 38

Field View

Profile View


CORE 39

Field View

Profile View


CORE 40

Field View

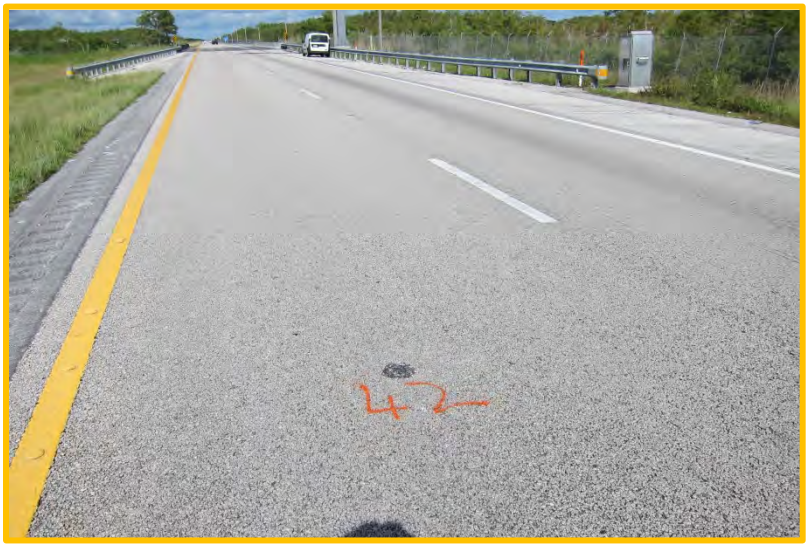
Profile View


CORE 41

Field View

Profile View


CORE 42

Field View

Profile View


CORE 43

Field View

Profile View

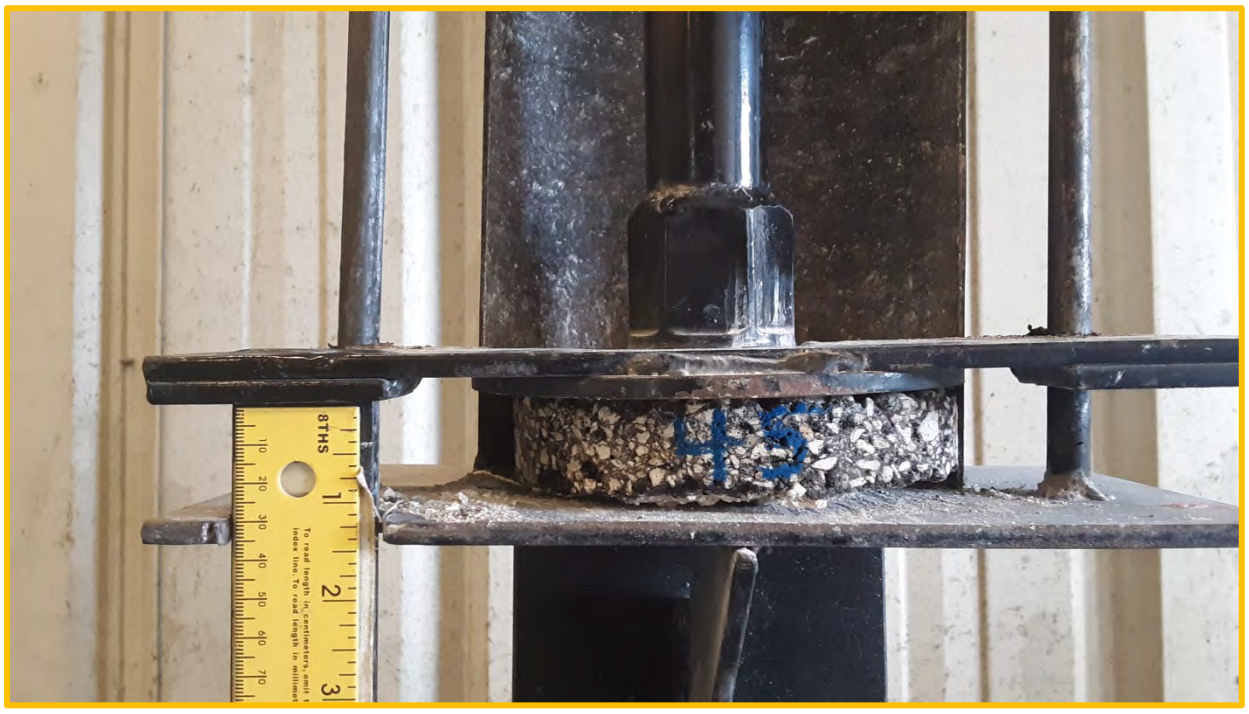

CORE 44

Field View

Profile View


CORE 45

Field View

Profile View


CORE 46

Field View

Profile View


CORE 47

Field View

Profile View


CORE 48

Field View

Profile View


CORE 49

Field View

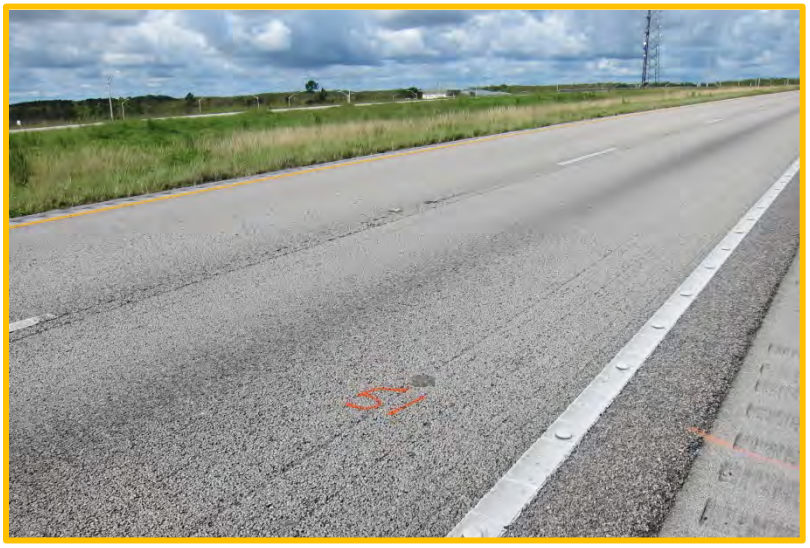
Profile View


CORE 50

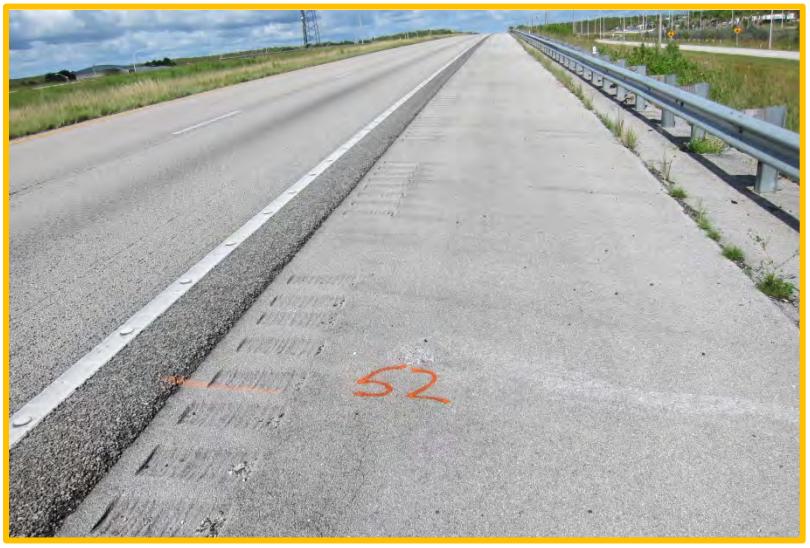
Field View

Profile View


CORE 51

Field View

Profile View


CORE 52

Field View

Profile View


CORE 53

Field View

Profile View


CORE 54

Field View

Profile View


CORE 55

Field View

Profile View


CORE 56

Field View

Profile View


CORE 57

Field View

Profile View


CORE 58

Field View

Profile View


CORE 59

Field View

Profile View


CORE 60

Field View

Profile View


CORE 61

Field View

Profile View


CORE 62

Field View

Profile View


CORE 63

Field View

Profile View


CORE 64

Field View

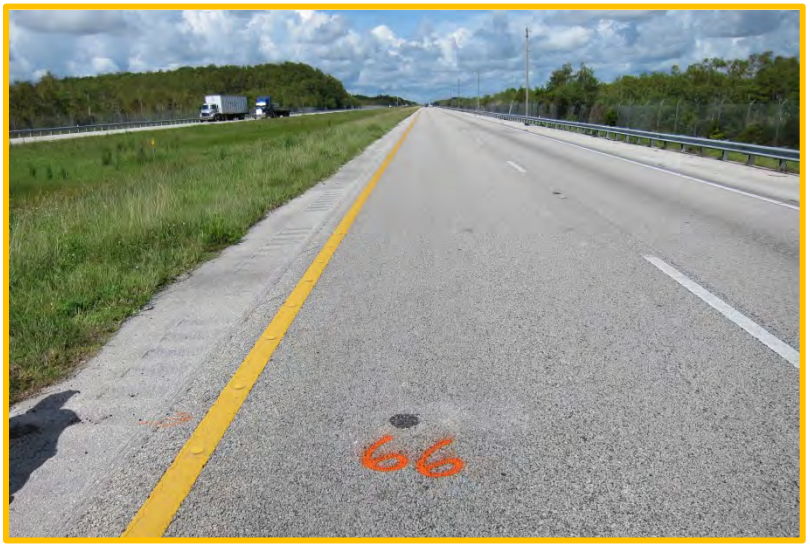
Profile View


CORE 65

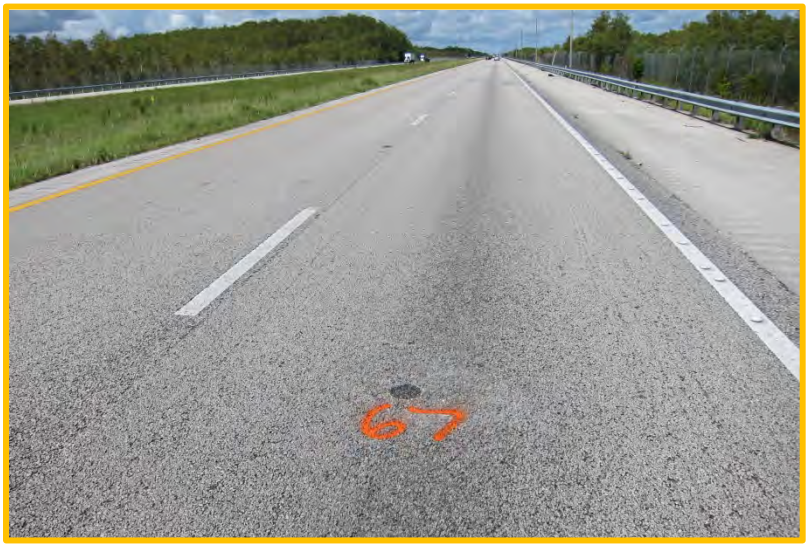
Field View

Profile View


CORE 66

Field View

Profile View


CORE 67

Field View

Profile View


CORE 68

Field View

Profile View


CORE 69

Field View

Profile View


CORE 70

Field View

Profile View


CORE 71

Field View

Profile View


CORE 72

Field View

Profile View


CORE 73

Field View

Profile View


CORE 74

Field View

Profile View


CORE 75

Field View

Profile View


CORE 76

Field View

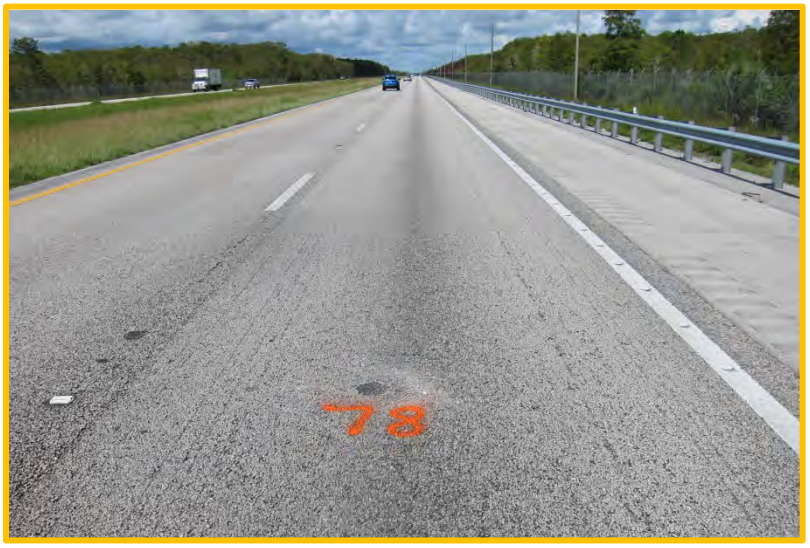
Profile View


CORE 77

Field View

Profile View


CORE 78

Field View

Profile View


CORE 79

Field View

Profile View


CORE 80

Field View

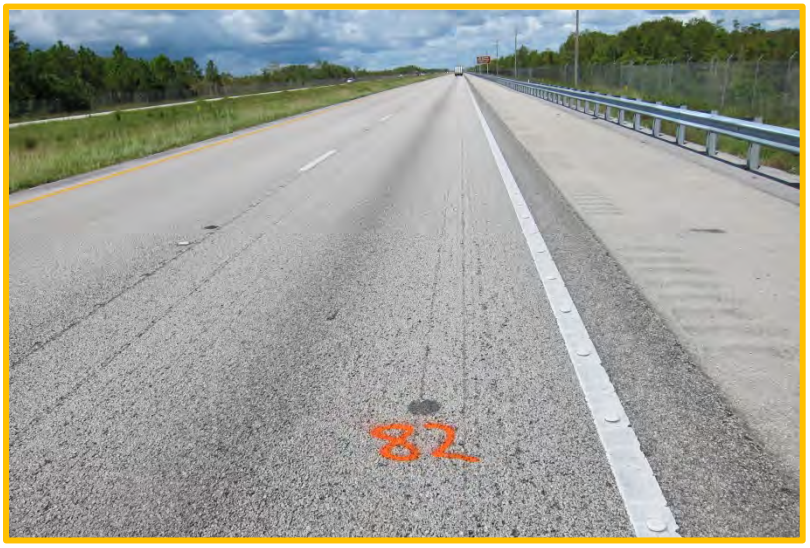
Profile View


CORE 81

Field View

Profile View


CORE 82

Field View

Profile View


CORE 83

Field View

Profile View


CORE 84

Field View

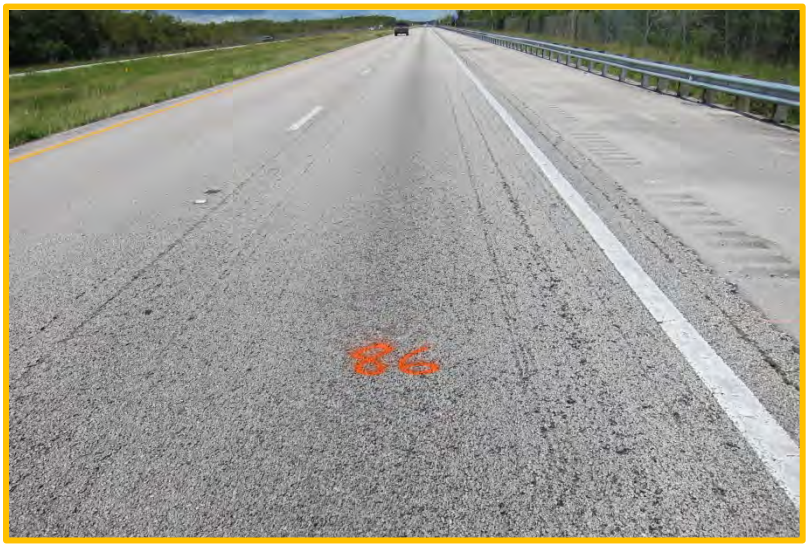
Profile View


CORE 85

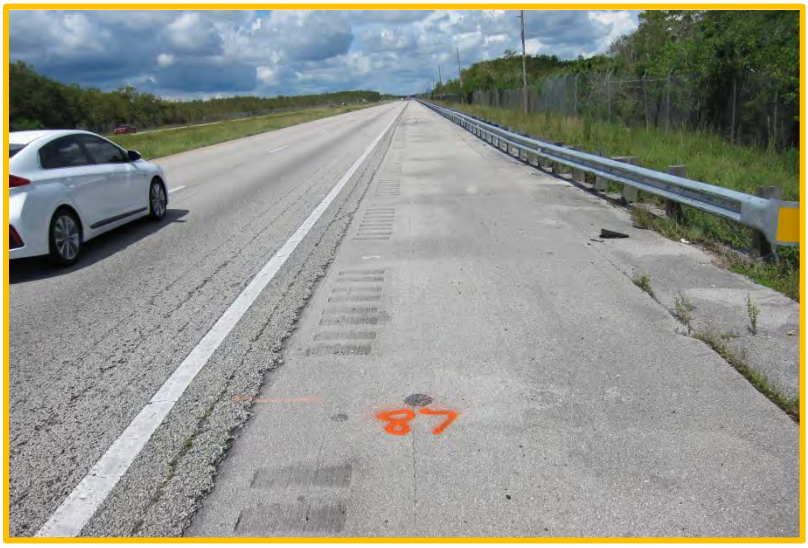
Field View

Profile View


CORE 86

Field View

Profile View


CORE 87

Field View

Profile View


CORE 88

Field View

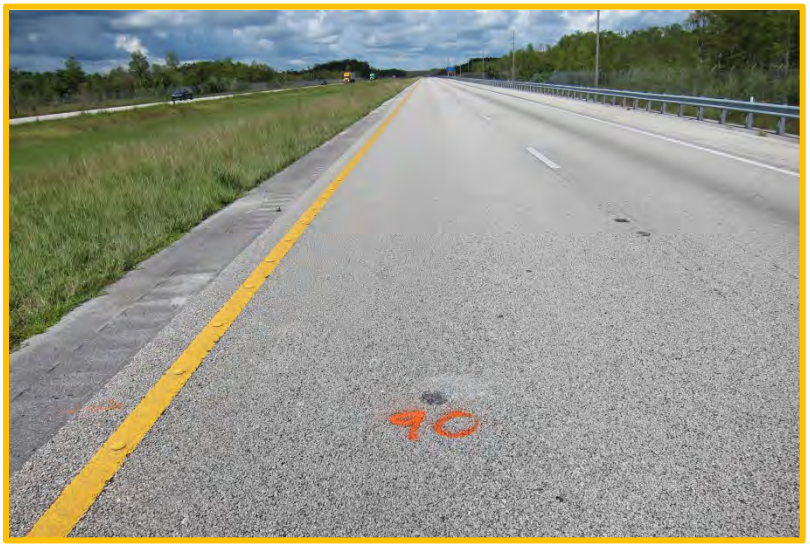
Profile View


CORE 89

Field View

Profile View


CORE 90

Field View

Profile View


CORE 91

Field View

Profile View


CORE 92

Field View

Profile View

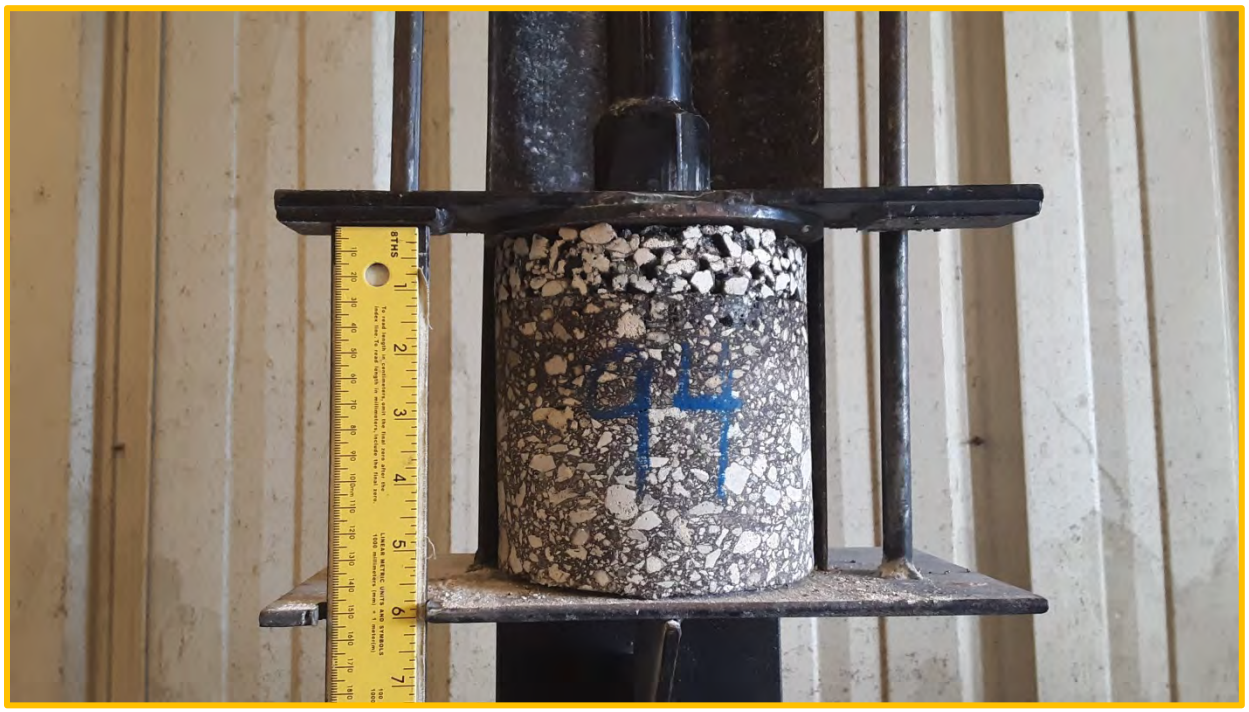

CORE 93

Field View

Profile View


CORE 94

Field View

Profile View


CORE 95

Field View

Profile View


CORE 96

Field View

Profile View


CORE 97

Field View

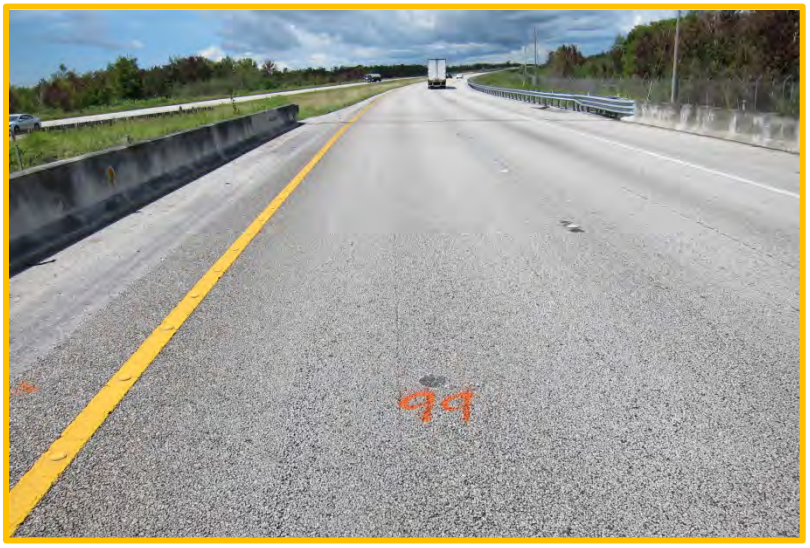
Profile View


CORE 98

Field View

Profile View


CORE 99

Field View

Profile View


CORE 100

Field View

Profile View


CORE 101

Field View

Profile View


CORE 102

Field View

Profile View


CORE 103

Field View

Profile View


CORE 104

Field View

Profile View


CORE 105

Field View

Profile View


CORE 106

Field View

Profile View


CORE 107

Field View

Profile View


CORE 108

Field View

Profile View


CORE 109

Field View

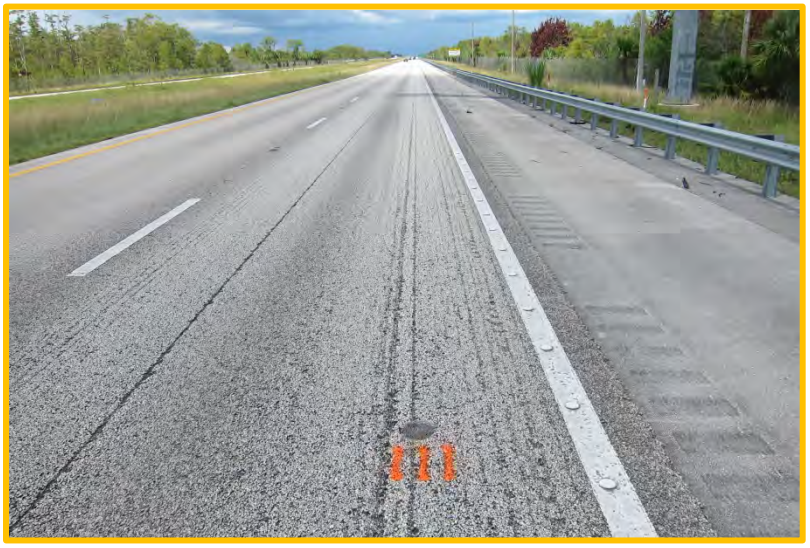
Profile View


CORE 110

Field View

Profile View


CORE 111

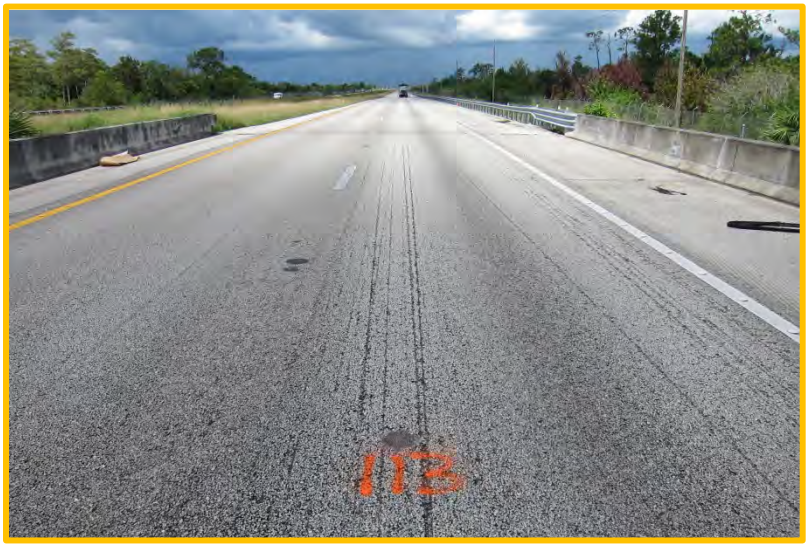
Field View

Profile View


CORE 112

Field View

Profile View


CORE 113

Field View

Profile View


CORE 114

Field View

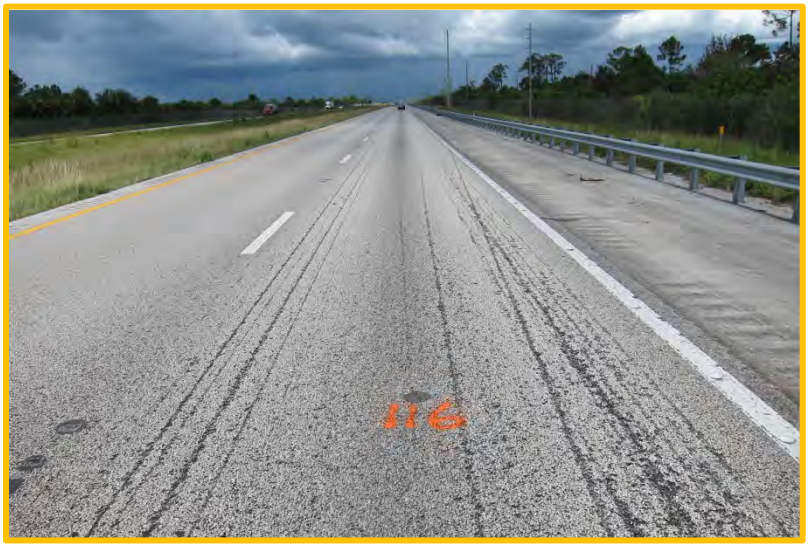
Profile View


CORE 115

Field View

Profile View


CORE 116

Field View

Profile View


CORE 117

Field View

Profile View


CORE 118

Field View

Profile View


CORE 119

Field View

Profile View


CORE 120

Field View

Profile View


CORE 121

Field View

Profile View


CORE 122

Field View

Profile View


CORE 123

Field View

Profile View


CORE 124

Field View

Profile View


CORE 125

Field View

Profile View


CORE 126

Field View

Profile View


CORE 127

Field View

Profile View


CORE 128

Field View

Profile View


CORE 129

Field View

Profile View


CORE 130

Field View

Profile View


CORE 131

Field View

Profile View


CORE 132

Field View

Profile View


CORE 133

Field View

Profile View


CORE 134

Field View

Profile View


CORE 135

Field View

Profile View


CORE 136

Field View

Profile View


CORE 137

Field View

Profile View


CORE 138

Field View

Profile View


CORE 139

Field View

Profile View


CORE 140

Field View

Profile View


CORE 141

Field View

Profile View


CORE 142

Field View

Profile View


CORE 143

Field View

Profile View


CORE 144

Field View

Profile View

CORE 145

Field View

Profile View


CORE 146

Field View

Profile View


CORE 147

Field View

Profile View


CORE 148

Field View

Profile View


CORE 149

Field View

Profile View


CORE 150

Field View

Profile View


CORE 151

Field View

Profile View


CORE 152

Field View

Profile View


CORE 153

Field View

Profile View


CORE 154

Field View

Profile View


CORE 155

Field View

Profile View


CORE 156

Field View

Profile View


CORE 157

Field View

Profile View


CORE 158

Field View

Profile View


CORE 159

Field View

Profile View


CORE 160

Field View

Profile View


CORE 161

Field View

Profile View


CORE 162

Field View

Profile View


CORE 163

Field View

Profile View


CORE 164

Field View

Profile View


CORE 165

Field View

Profile View


CORE 166

Field View

Profile View


CORE 167

Field View

Profile View


CORE 168

Field View

Profile View


CORE 169

Field View

Profile View


CORE 170

Field View

Profile View


CORE 171

Field View

Profile View


CORE 172

Field View

Profile View

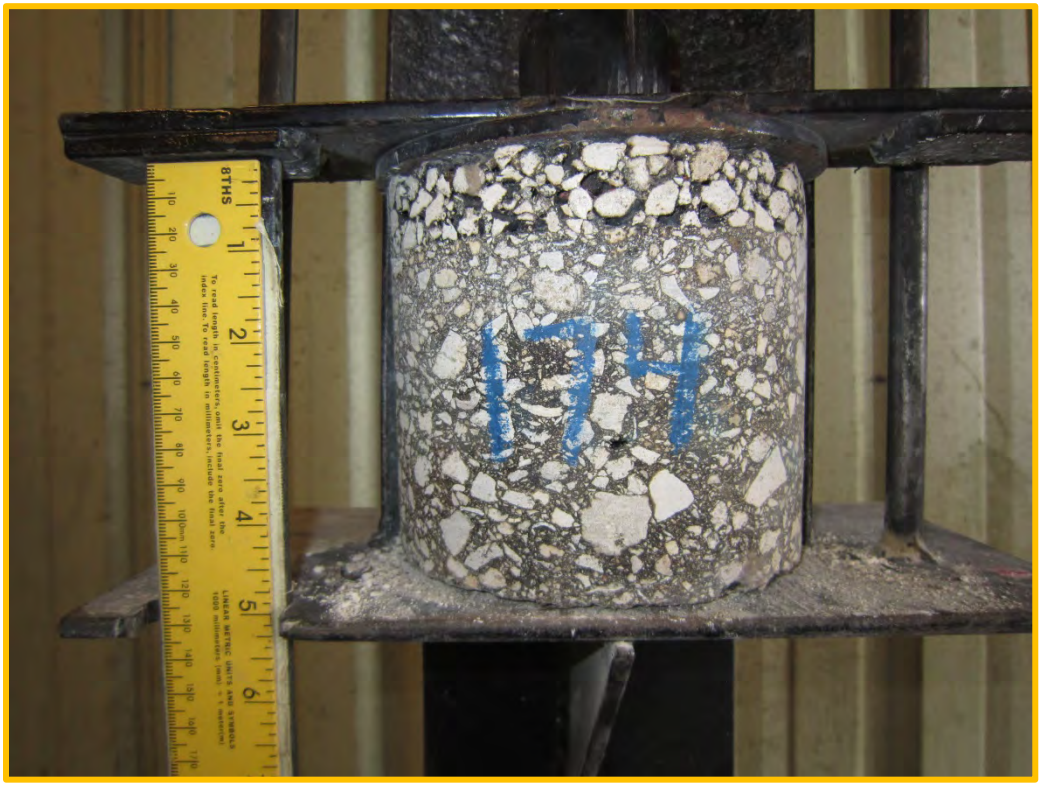

CORE 173

Field View

Profile View


CORE 174

Field View

Profile View


CORE 175

Field View

Profile View


CORE 176

Field View

Profile View


CORE 177

Field View

Profile View


CORE 178

Field View

Profile View


CORE 179

Field View

Profile View


CORE 180

Field View

Profile View


CORE 181

Field View

Profile View


CORE 182

Field View

Profile View


CORE 183

Field View

Profile View


CORE 184

Field View

Profile View


CORE 185

Field View

Profile View


CORE 186

Field View

Profile View


CORE 187

Field View

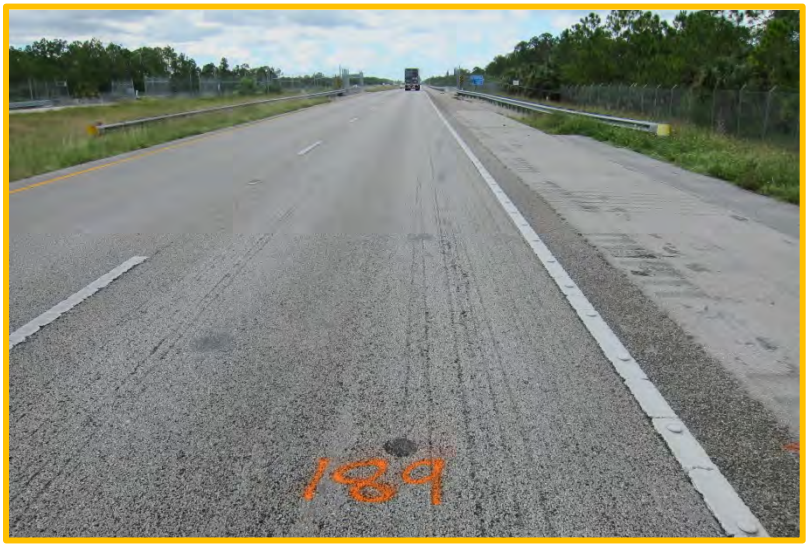
Profile View


CORE 188

Field View

Profile View


CORE 189

Field View

Profile View

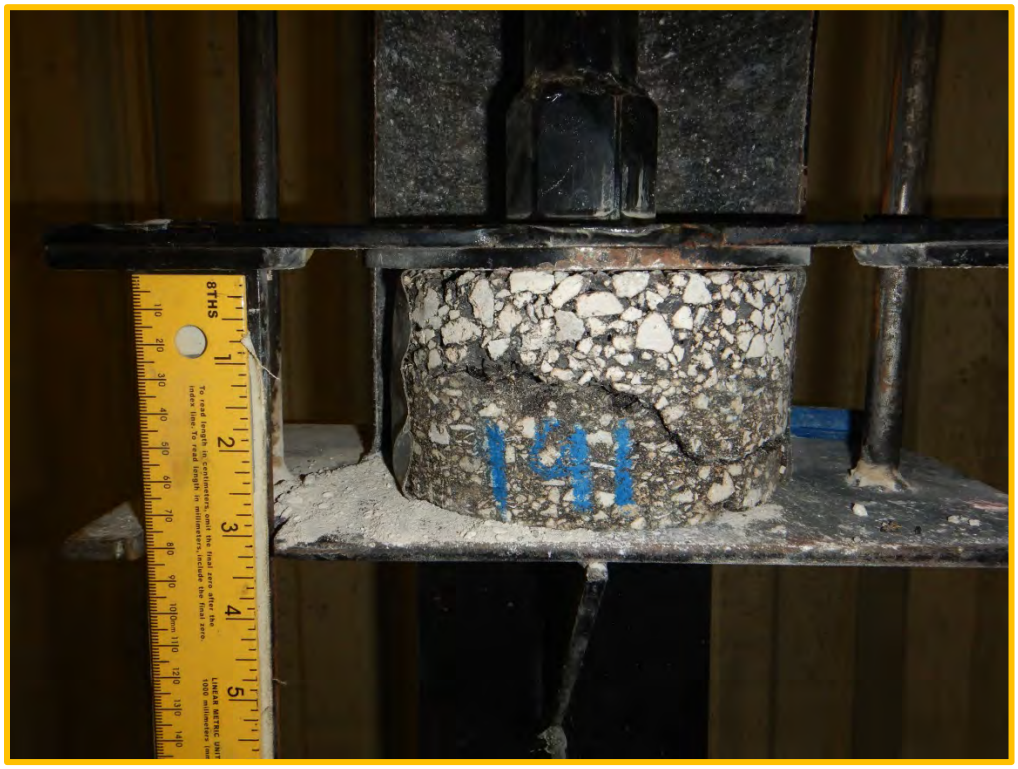

CORE 190

Field View

Profile View


CORE 191

Field View

Profile View


CORE 192

Field View

Profile View


CORE 193

Field View

Profile View


CORE 194

Field View

Profile View


CORE 195

Field View

Profile View


CORE 196

Field View

Profile View


CORE 197

Field View

Profile View


CORE 198

Field View

Profile View


CORE 199

Field View

Profile View


CORE 200

Field View

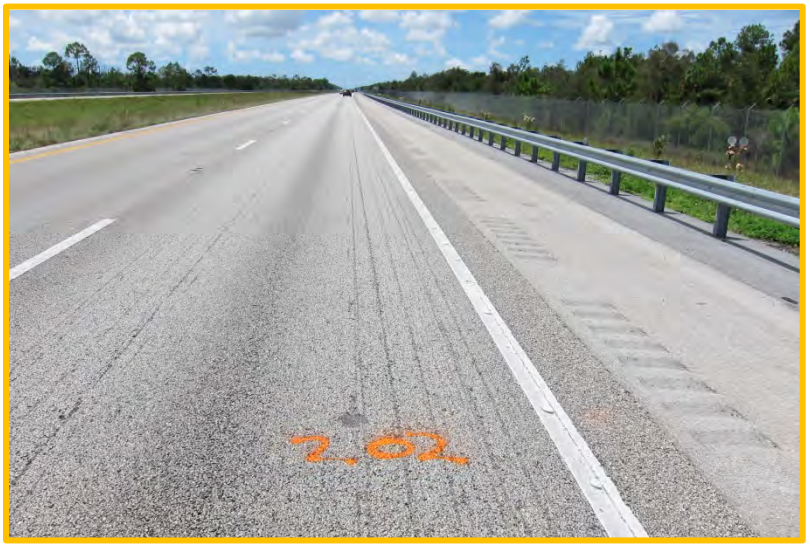
Profile View


CORE 201

Field View

Profile View


CORE 202

Field View

Profile View


CORE 203

Field View

Profile View

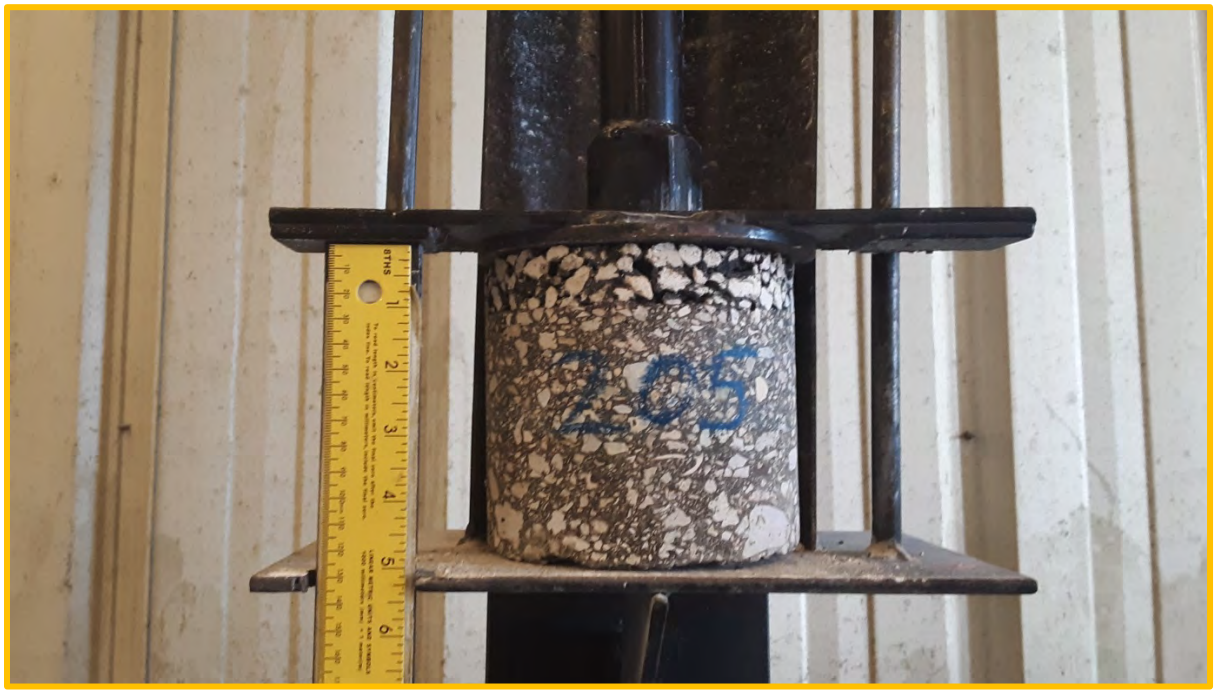

CORE 204

Field View

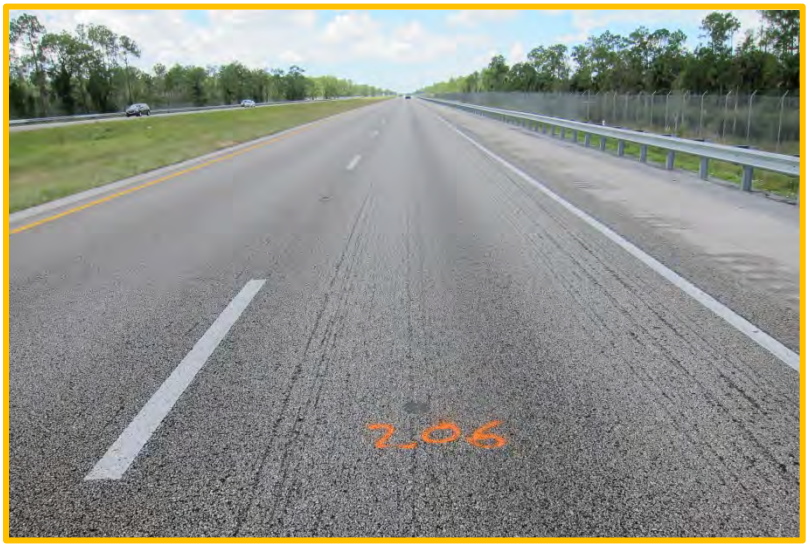
Profile View


CORE 205

Field View

Profile View


CORE 206

Field View

Profile View


CORE 207

Field View

Profile View


CORE 208

Field View

Profile View


CORE 209

Field View

Profile View


CORE 210

Field View

Profile View


CORE 211

Field View

Profile View


CORE 212

Field View

Profile View


CORE 213

Field View

Profile View


CORE 214

Field View

Profile View


CORE 215

Field View

Profile View


CORE 216

Field View

Profile View


CORE 217

Field View

Profile View


CORE 218

Field View

Profile View


CORE 219

Field View

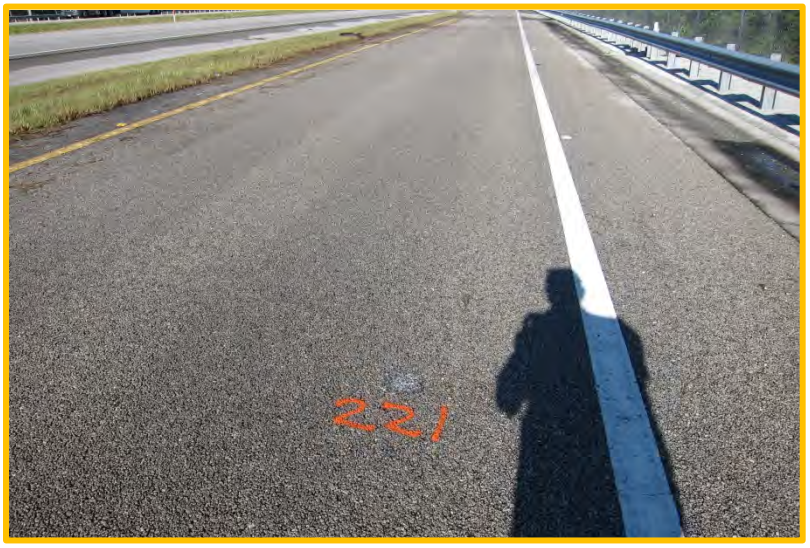
Profile View


CORE 220

Field View

Profile View


CORE 221

Field View

Profile View


CORE 222

Field View

Profile View


CORE 223

Field View

Profile View


CORE 224

Field View

Profile View


CORE 225

Field View

Profile View


CORE 226

Field View

Profile View


CORE 227

Field View

Profile View


CORE 228

Field View

Profile View


CORE 229

Field View

Profile View


CORE 230

Field View

Profile View


CORE 231

Field View

Profile View


CORE 232

Field View

Profile View


CORE 233

Field View

Profile View


CORE 234

Field View

Profile View

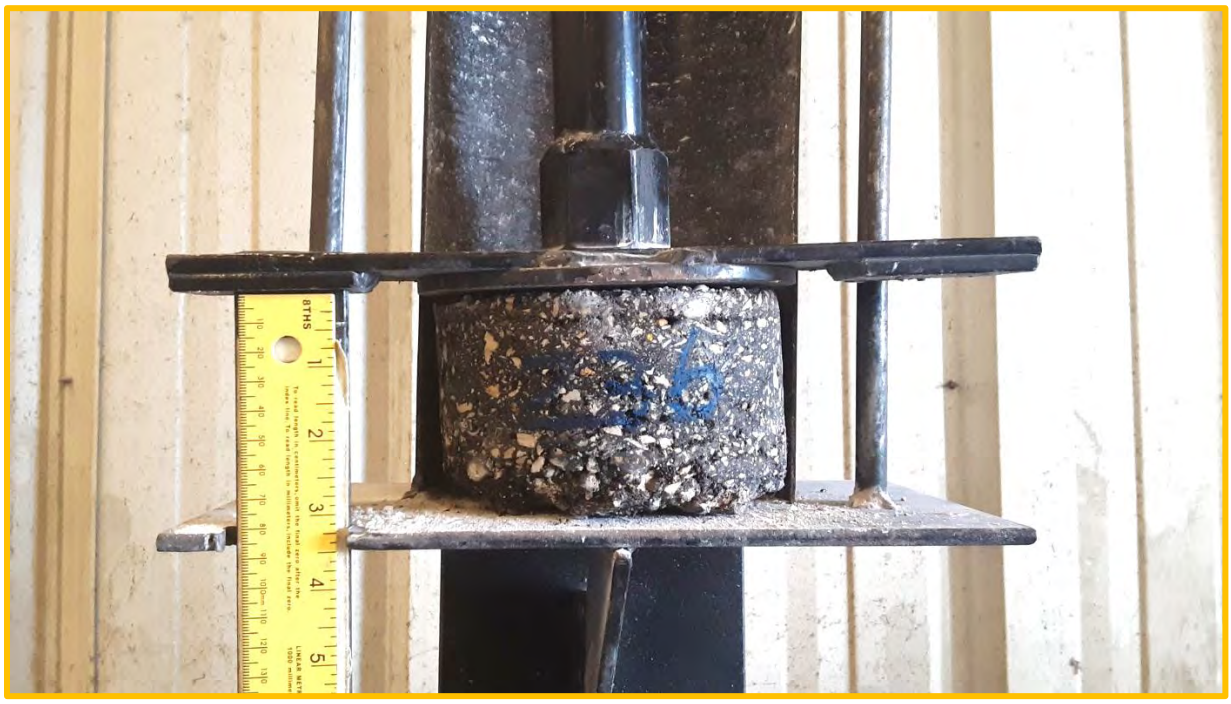

CORE 235

Field View

Profile View


CORE 236

Field View

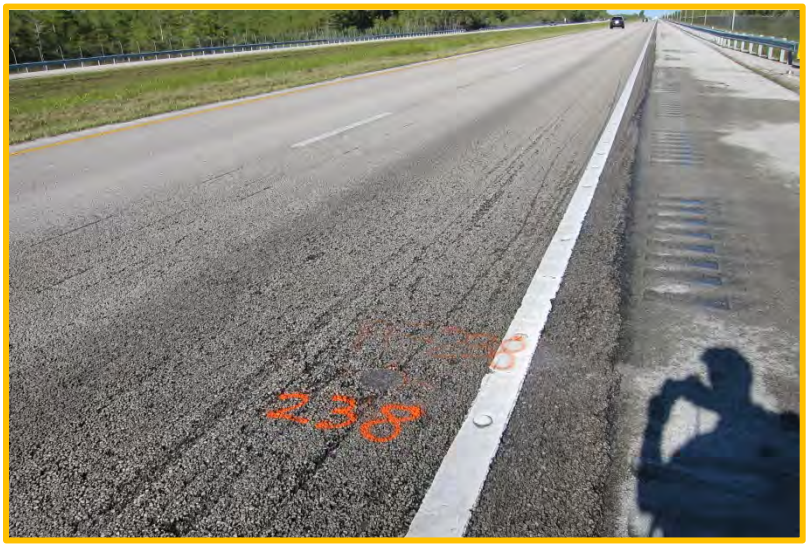
Profile View


CORE 237

Field View

Profile View


CORE 238

Field View

Profile View


CORE 239

Field View

Profile View


CORE 240

Field View

Profile View


CORE 241

Field View

Profile View


CORE 242

Field View

Profile View


CORE 243

Field View

Profile View


CORE 244

Field View

Profile View


CORE 245

Field View

Profile View


***Core broke off at 2.3 inches**

CORE 246

Field View

Profile View


CORE 247

Field View

Profile View

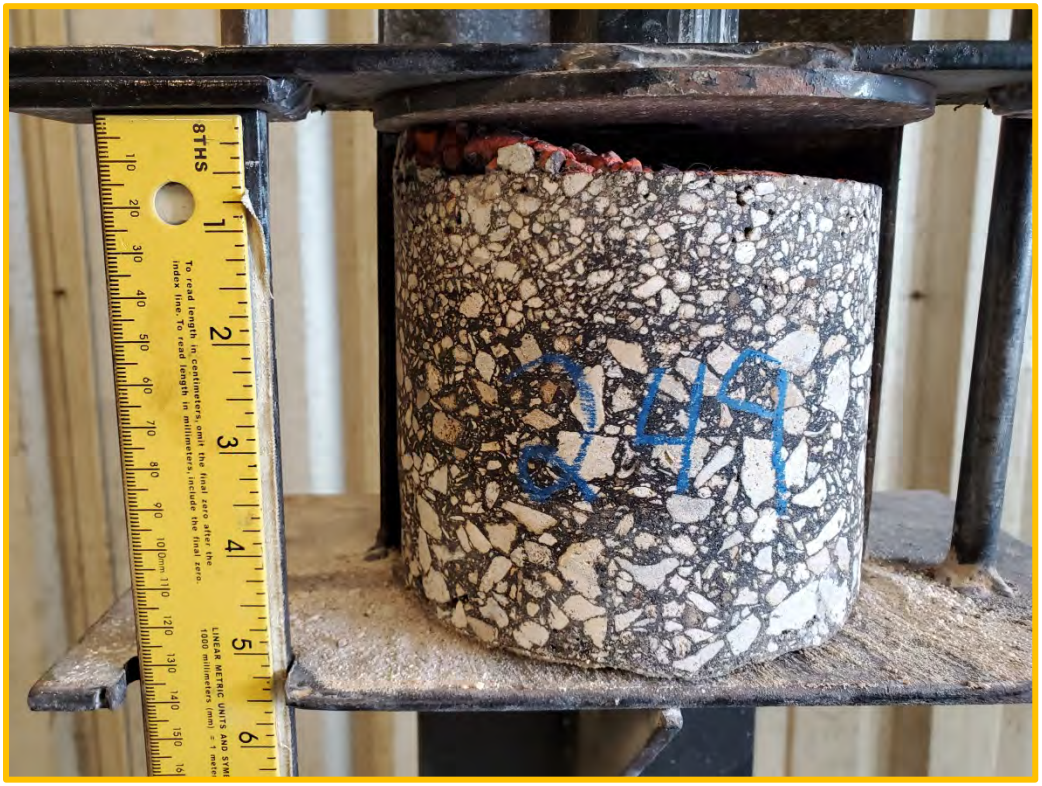

CORE 248

Field View

Profile View


CORE 249

Field View

Profile View


CORE 250

Field View

Profile View


CORE 251

Field View

Profile View

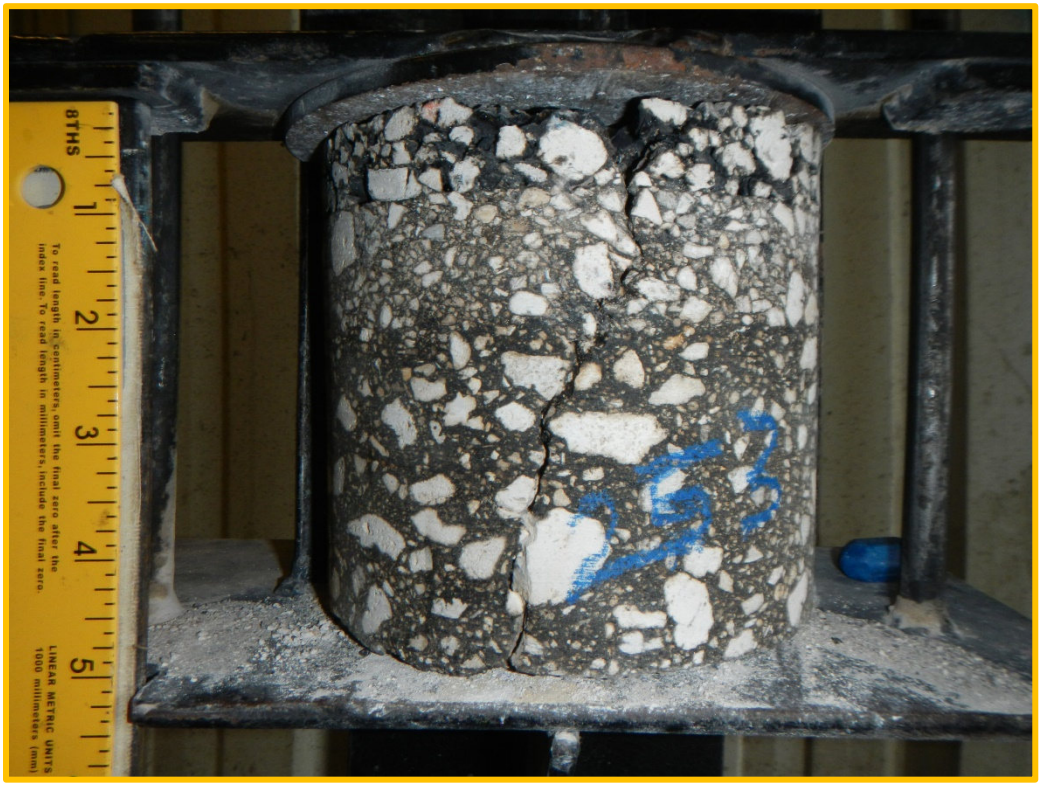

CORE 252

Field View

Profile View


CORE 253

Field View

Profile View


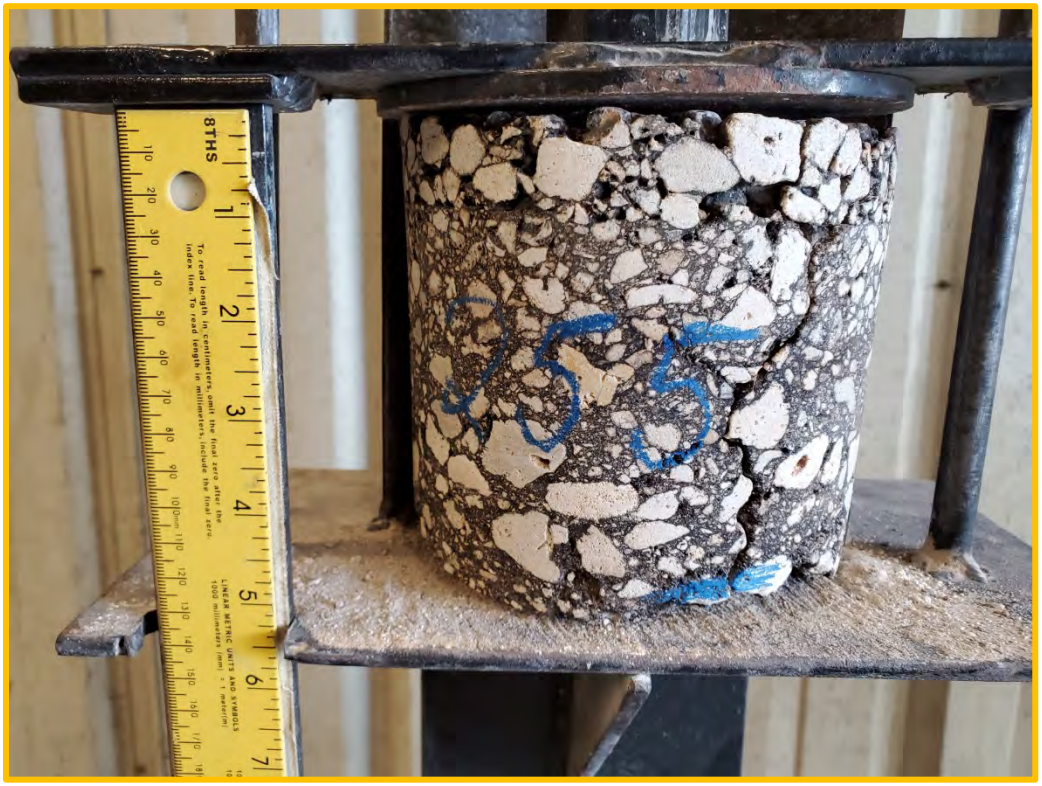
CORE 254

Field View

Profile View


CORE 255

Field View

Profile View


CORE 256

Field View

Profile View


PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
1	5.5	3.5

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
2	7.2	13.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
3	1.2	13.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
4	1.7	3.5

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
5	7.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
6	7.8	13.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
7	1.1	13.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
8	0.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

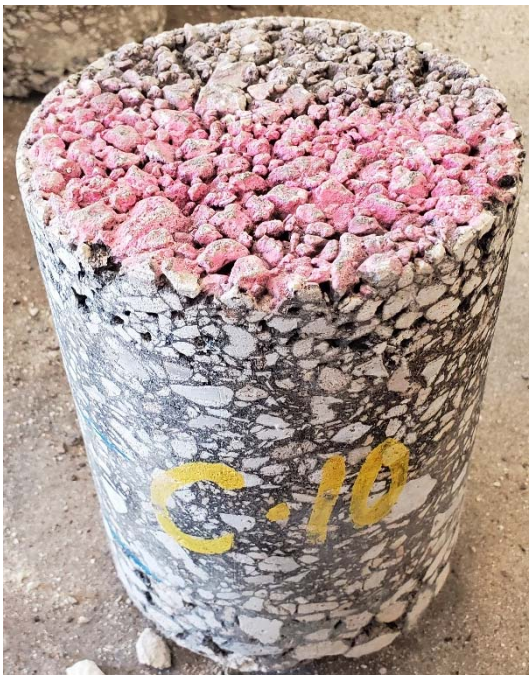
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
9	7.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
10	7.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
11	1.0	7.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
12	7.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
13	7.7	10.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
14	1.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

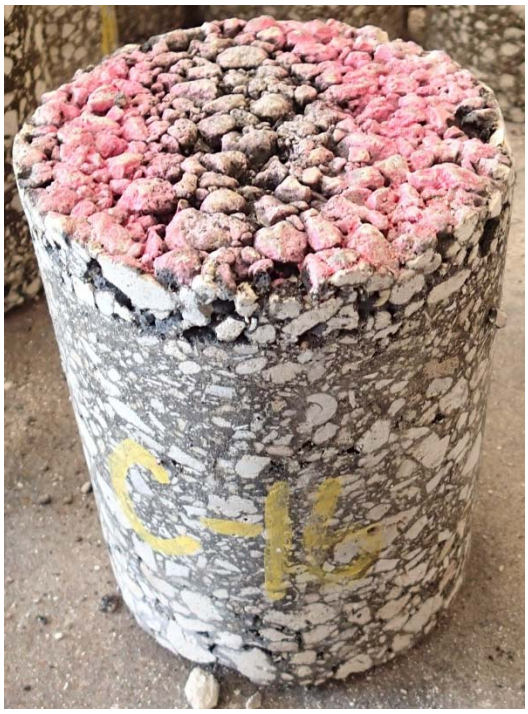
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
15	7.8	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
16	7.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
17	1.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
18	1.7	10.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
19	7.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
20	7.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
21	1.0	13.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
22	1.1	10.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

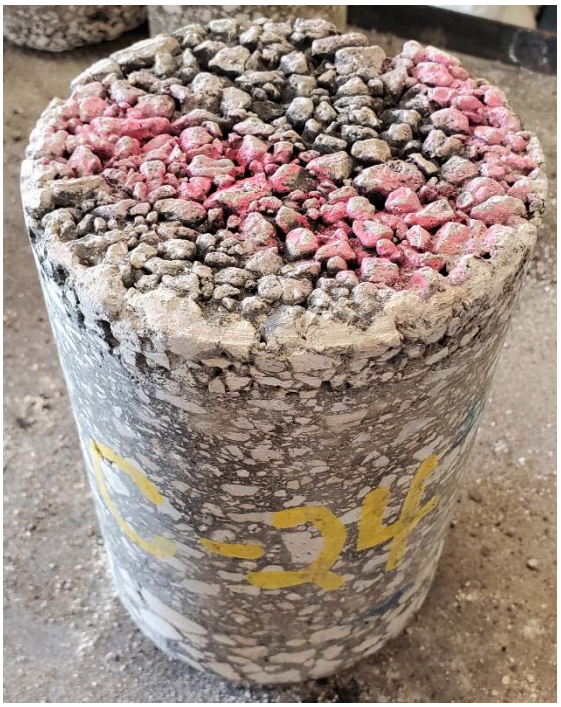
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
23	8.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
24	8.2	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

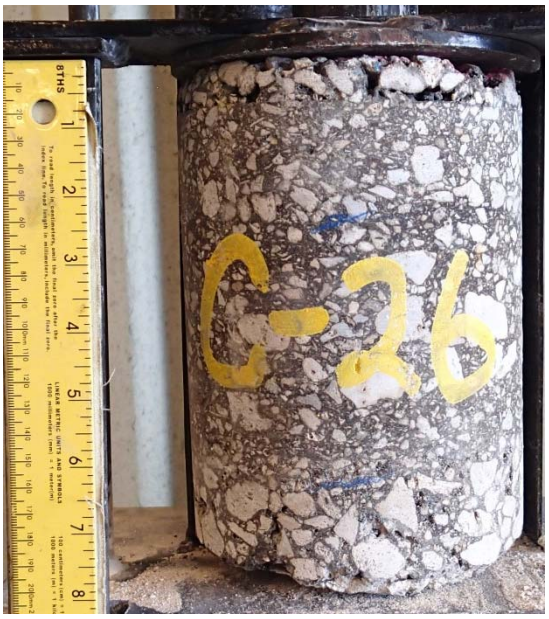
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
25	2.7	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



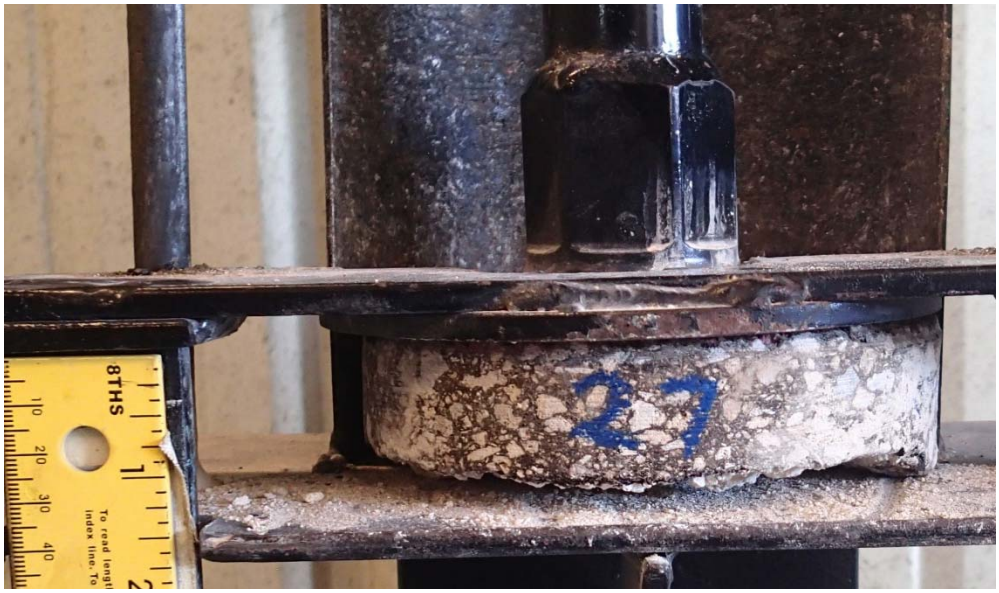
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
26	7.9	11.0

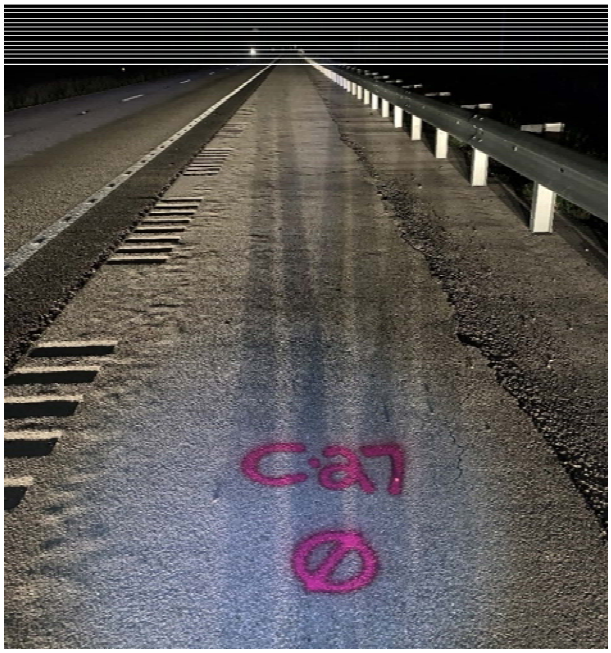
AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH





PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
27	1.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
28	0.9	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
29	5.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
30	5.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

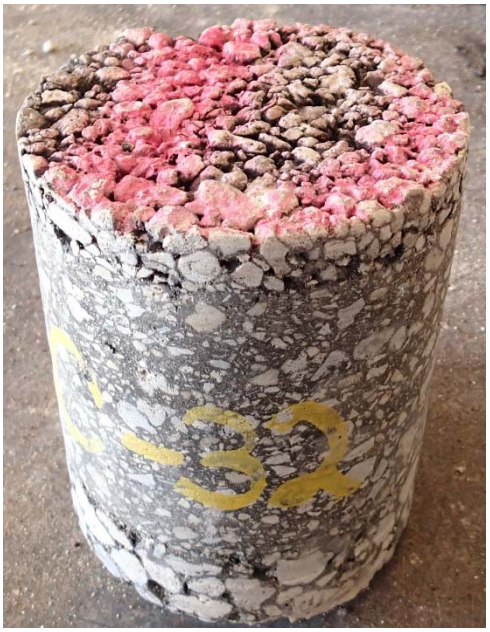
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
31	0.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
32	7.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
33	2.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
34	7.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
35	7.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
36	1.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
37	3.4	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
38	1.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
39	7.2	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
40	1.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
41	7.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

A SIDE AND TOP VIEW ARE UNAVAILABLE.
UNABLE TO EXTRACT PAVEMENT CORE
FROM THE BRIDGE DECK.

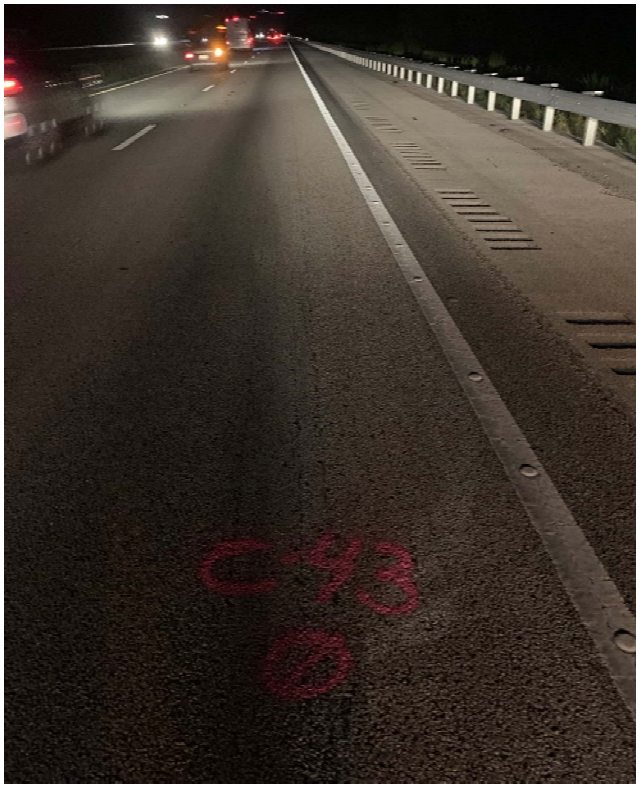
PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
42	3.5	CONCRETE Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
43	6.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

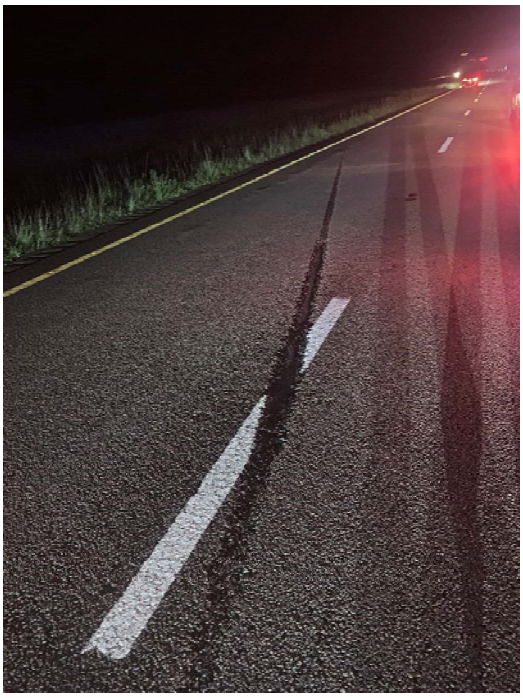
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
44	1.0	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
45	7.5	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
46	0.8	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE THICKNESS (in)
47	2.3	CONCRETE, BRIDGE DECK

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
48	1.7	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
49	7.3	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
50	1.5	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

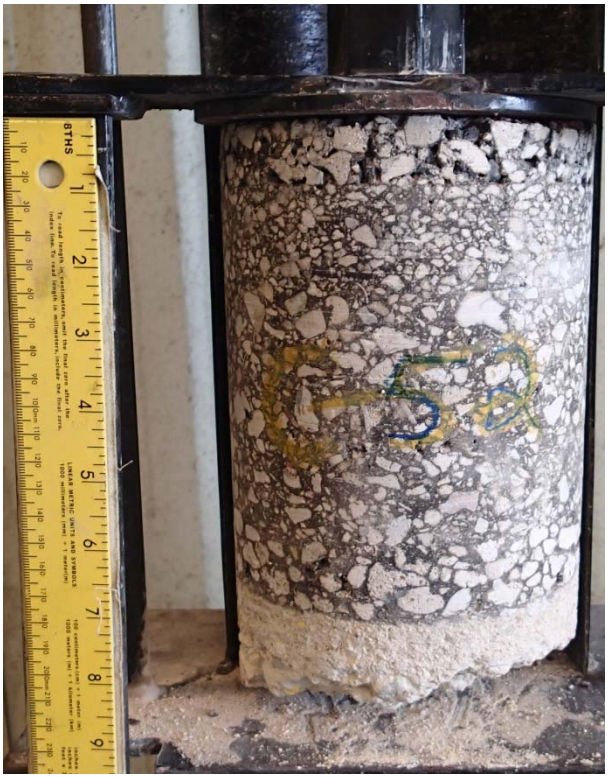
PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
51	2.9	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
52	7.0	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
53	1.4	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
54	2.5	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

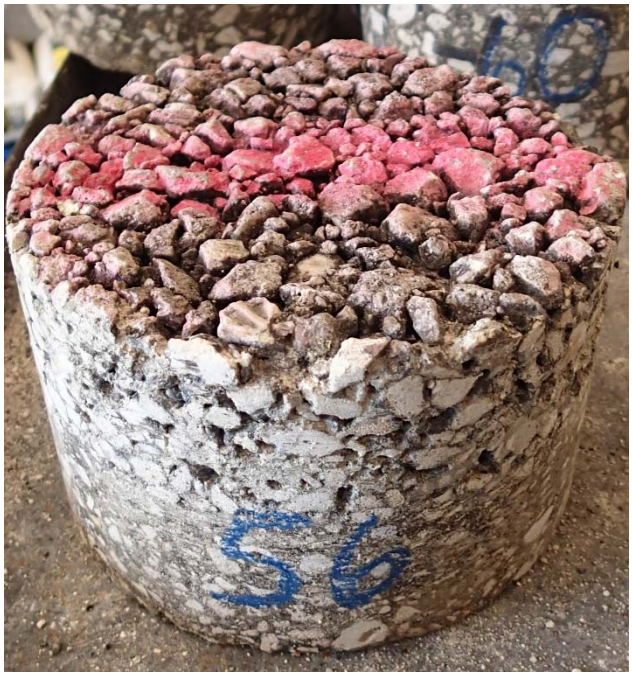
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
55	4.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
56	3.8	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
57	5.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
58	1.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
59	3.0	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
60	5.8	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
61	1.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
62	3.0	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
63	5.2	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

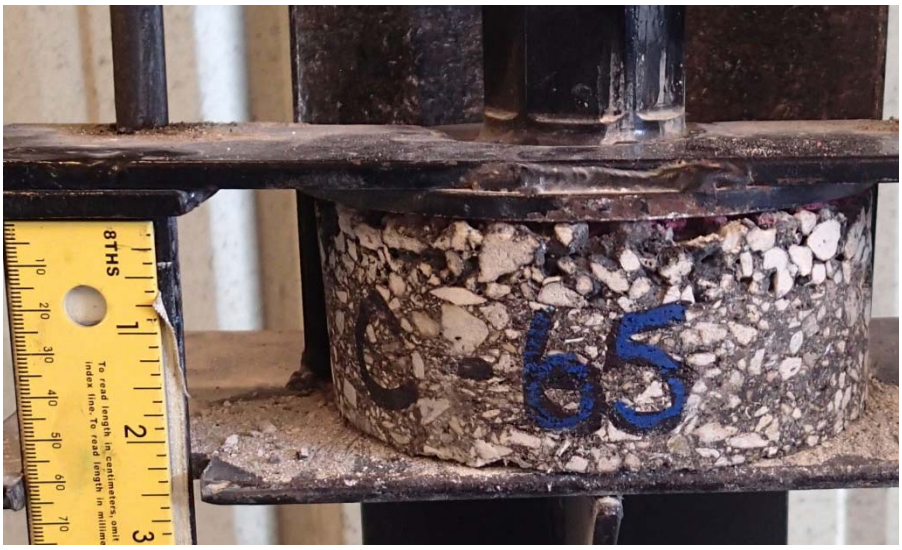
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
64	1.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
65	2.3	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
66	5.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
67	7.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
68	3.0	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
69	6.1	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
70	1.7	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
71	7.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
72	2.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
73	7.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

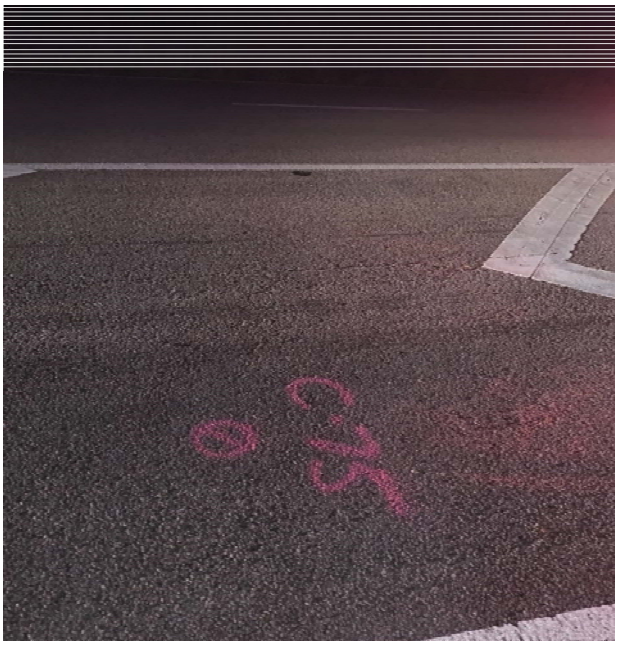
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
74	1.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



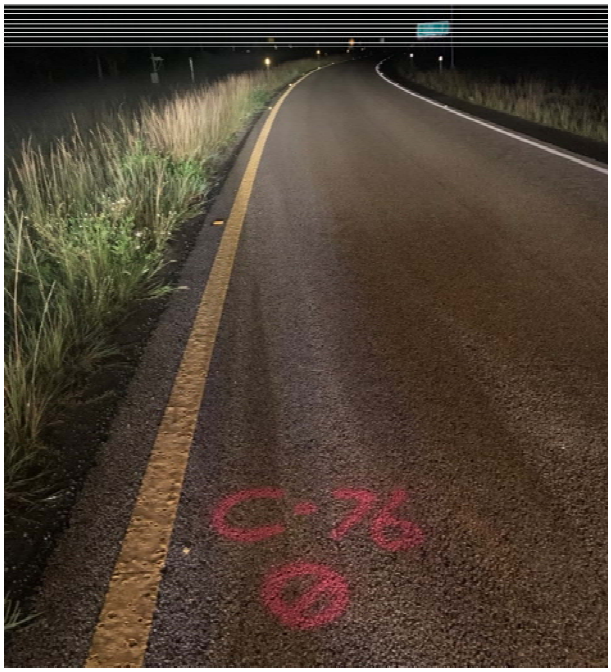
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
75	3.6	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



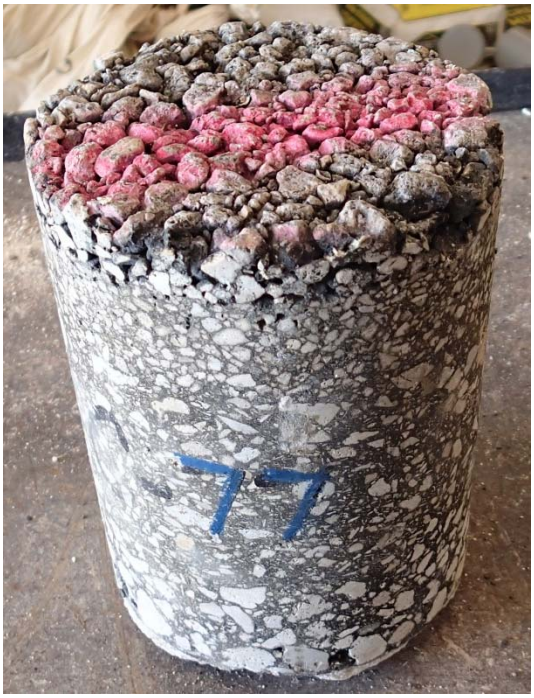
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
76	3.0	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



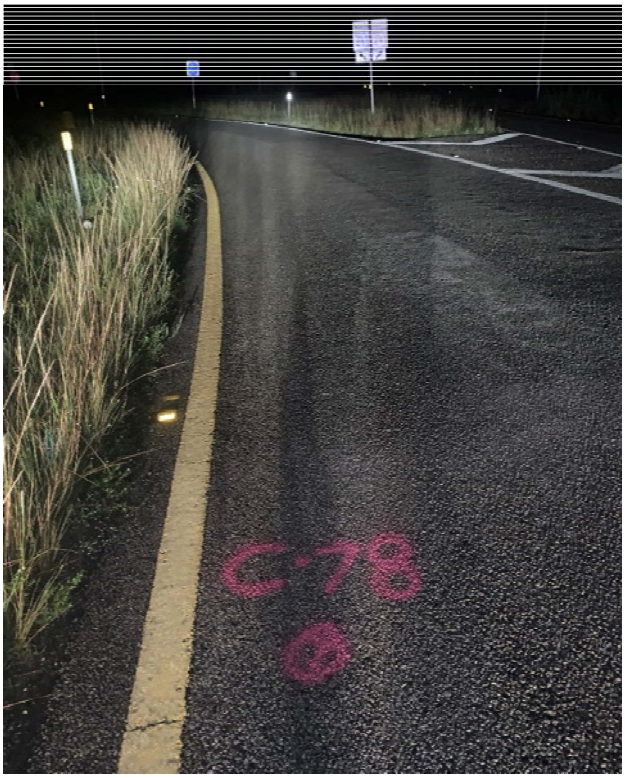
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
77	7.3	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
78	2.7	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

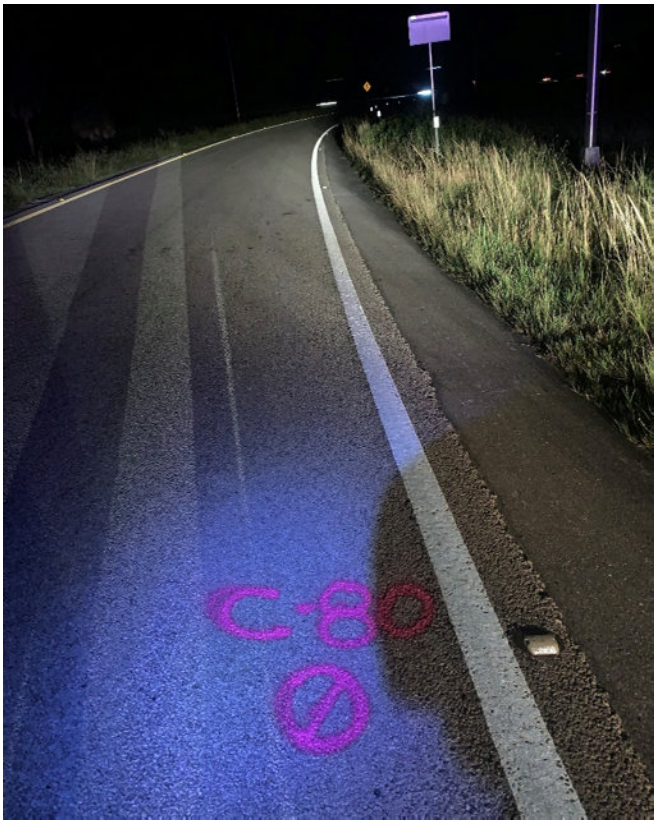
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
79	2.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
80	2.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
81	7.8	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
82	2.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
83	2.6	12

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
84	7.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
85	1.7	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

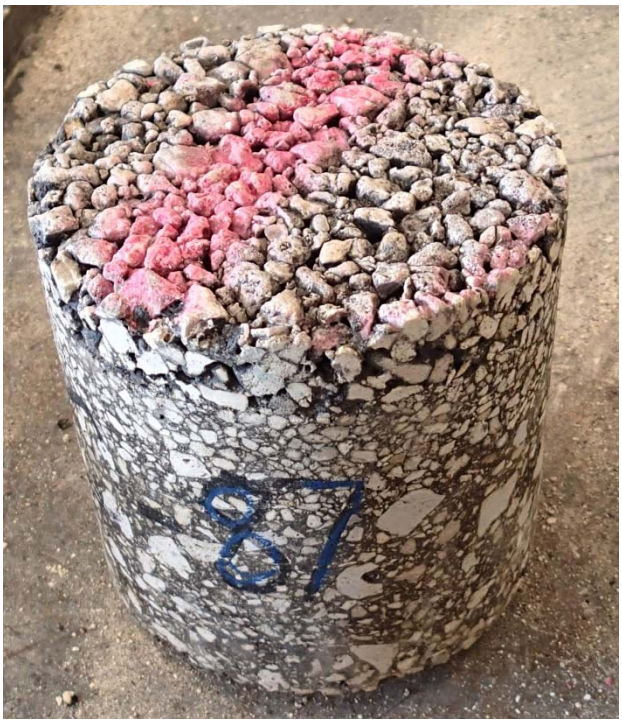
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
86	7.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
87	5.7	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
88	2.8	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
89	1.2	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
90	7.5	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
91	1.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

Partial Core
Unable to fully extract core from bridge deck.

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
92	3.0	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
93	1.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
94	7.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
95	1.7	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

Partial Core
Unable to fully extract core from bridge deck.

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
96	2.7	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
97	1.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
98	5.1	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
99	1.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
100	5.2	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

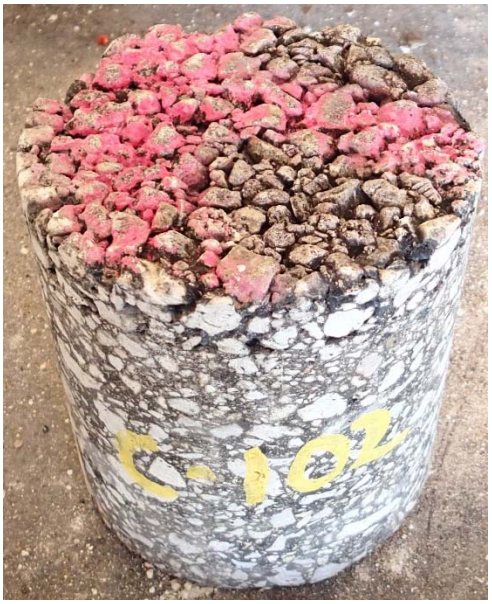
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
101	1.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
102	6.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
103	1.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
104	5.1	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

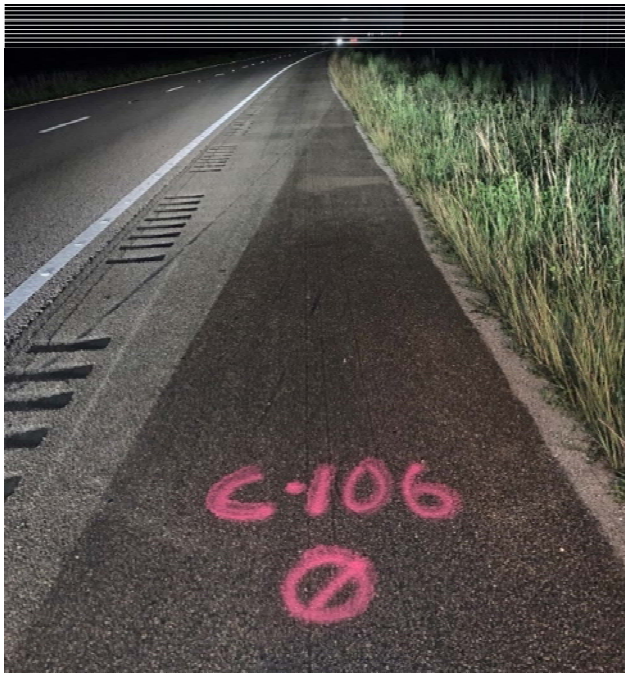
PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
105	3.1	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
106	1.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

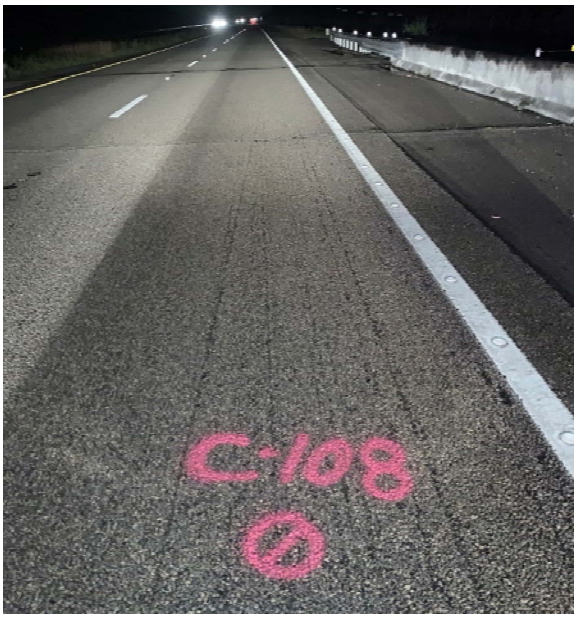
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
107	5.8	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
108	2.4	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
109	1.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

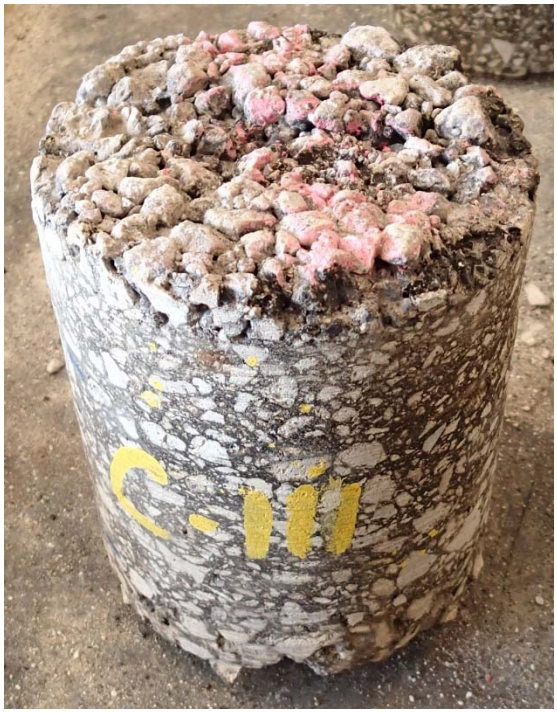
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
110	1.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
111	7.6	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
112	3.2	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
113	7.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
114	1.3	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
115	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
116	6.7	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

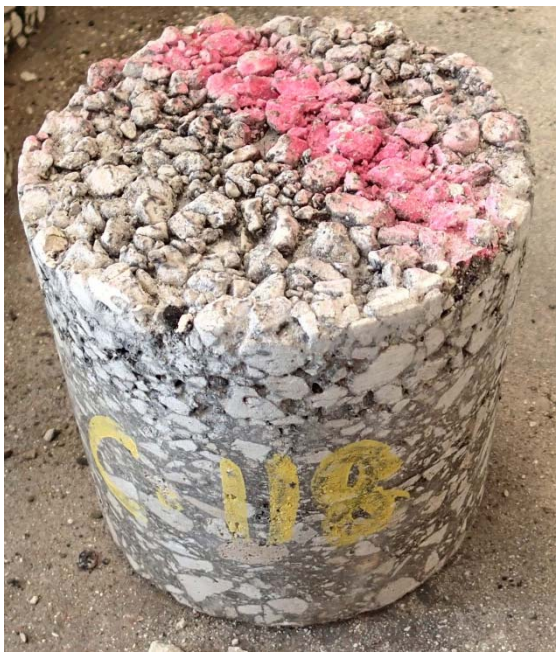
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
117	6.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
118	5.8	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
119	6.8	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
120	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
121	1.6	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

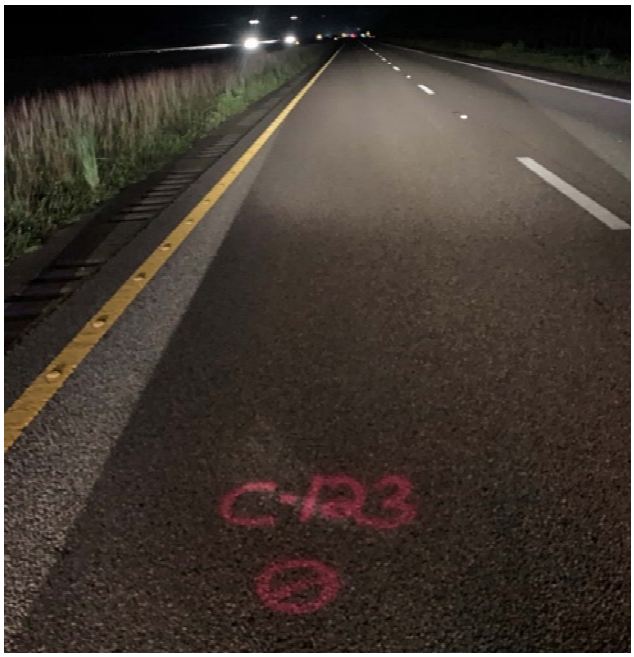
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
122	7.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
123	8.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
124	5.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
125	5.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
126	6.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
127	1.8	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
128	2.7	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
129	2.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
130	6.7	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
131	6.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
132	2.3	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
133	1.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
134	8.2	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

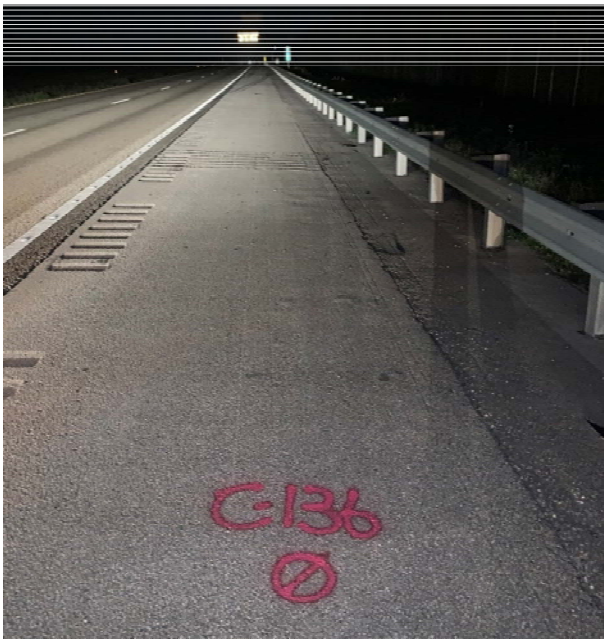
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
135	1.5	11.0

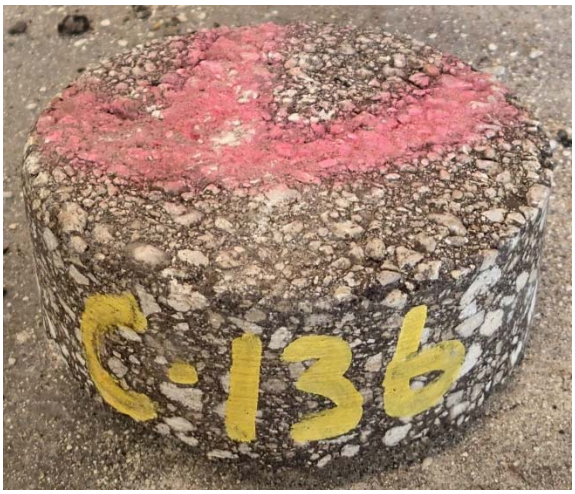
AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH





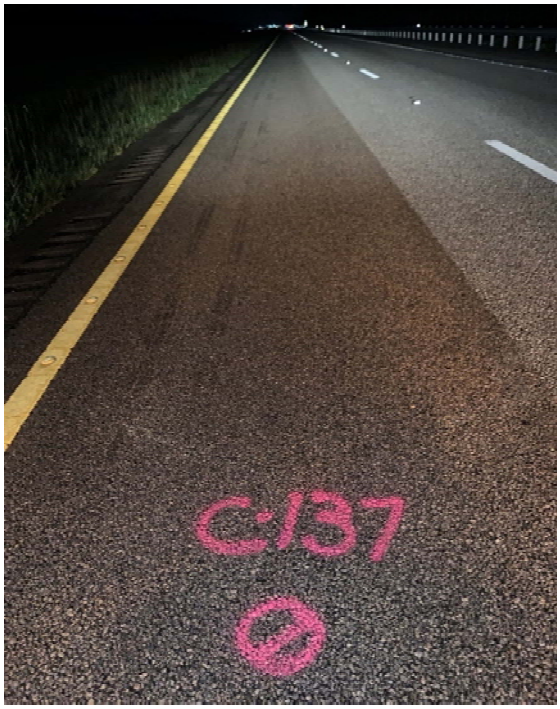
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
136	2.2	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
137	8.3	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
138	1.8	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
139	1.8	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

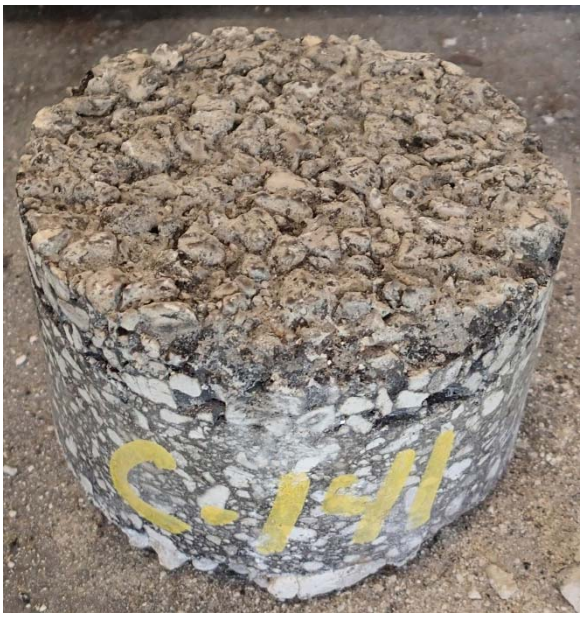
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
140	8.4	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
141	3.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
142	1.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
143	5.7	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

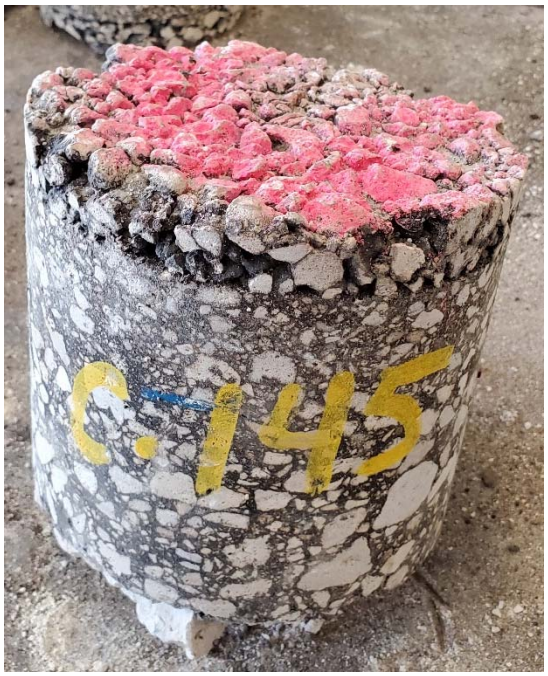
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
144	6.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
145	5.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
146	1.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

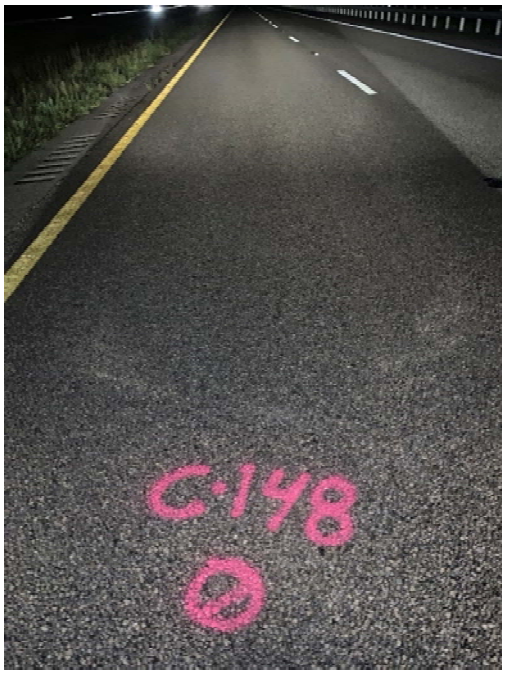
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
147	1.8	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
148	8.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
149	2.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
150	8.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
151	9.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
152	1.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
153	7.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
154	1.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
155	5.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
156	8.2	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
157	1.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
158	7.1	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
159	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
160	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

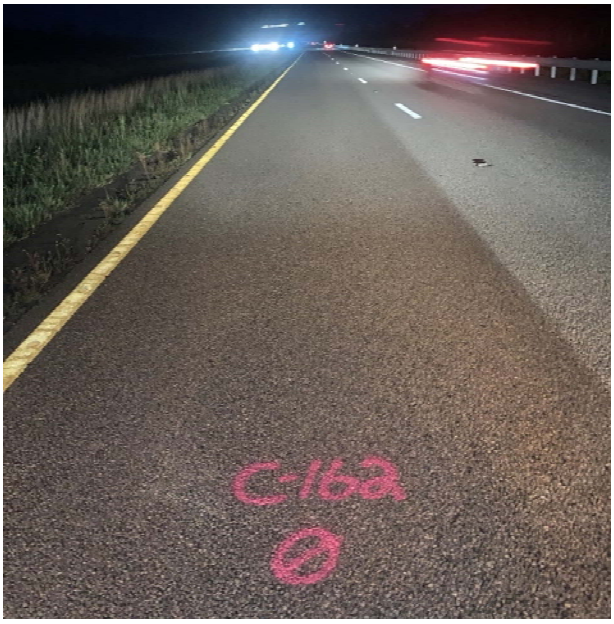
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
161	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
162	8.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
163	7.0	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

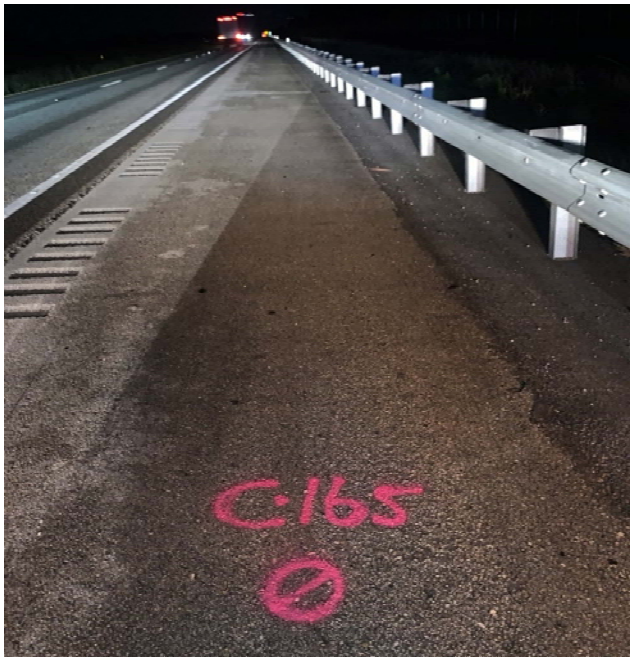
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
164	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



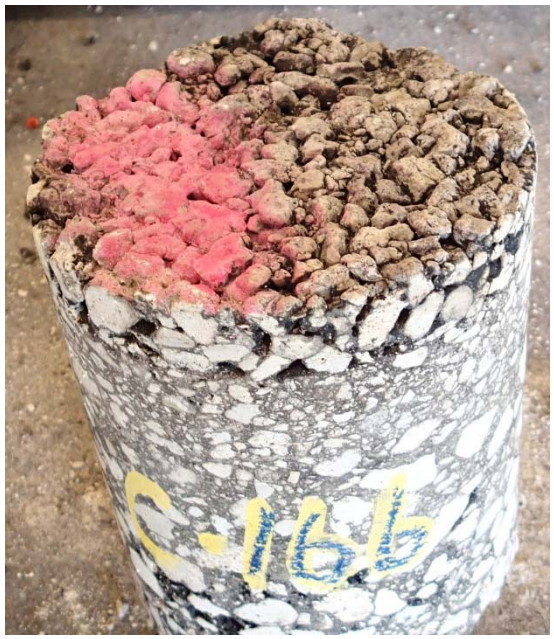
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
165	1.1	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
166	7.3	11.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
167	7.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
168	1.5	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
169	7.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
170	1.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	BASE
171	2.3	Concrete Bridge Deck

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
172	6.7	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
173	8.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
174	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
175	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

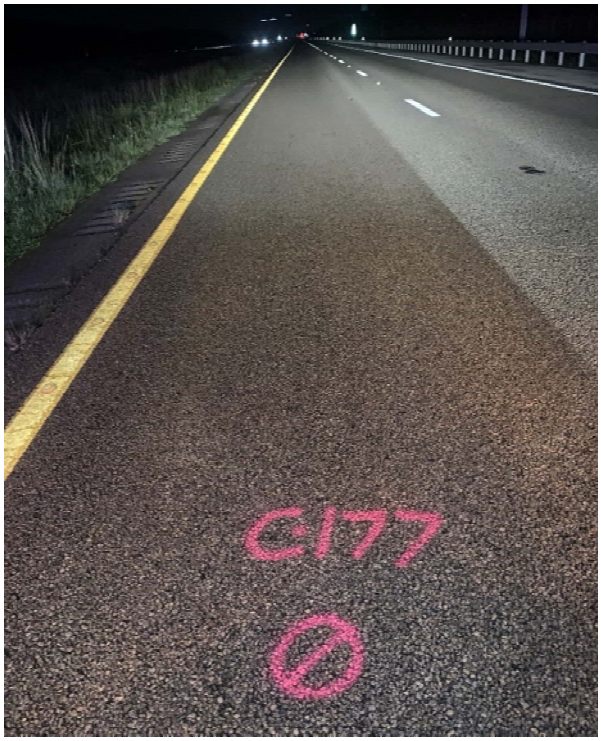
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
176	1.1	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
177	7.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

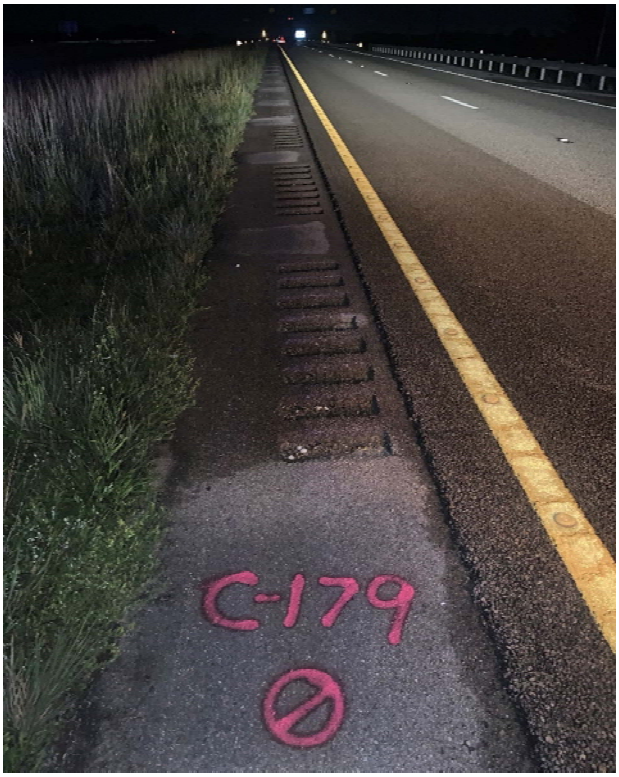
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
178	7.3	12

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
179	1.7	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

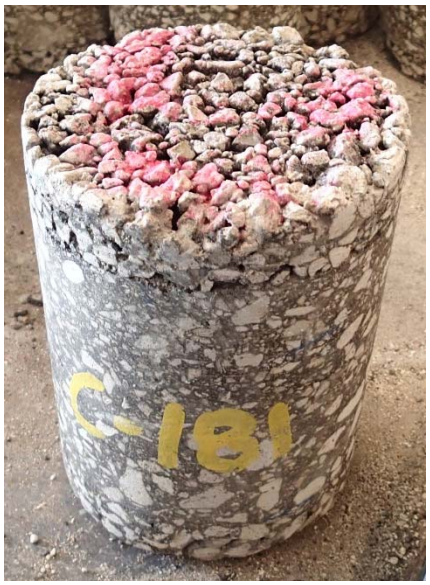
PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
180	1.6	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH



PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
181	7.3	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
182	5.4	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

PAVEMENT CORE	ASPHALT THICKNESS (in)	LIMEROCK BASE THICKNESS (in)
183	1.9	12.0

AREHNA Project No.: B-18-089.03
Alligator Alley Pavement Cores
Date: August 4, 2019
to August 15,2 019

SR 93 (I-75) from Broward County Line to Toll Booth
FDOT Contract No.: C9S12
FDOT FIN: 198296-1-32-12
FM No.: 444008-1

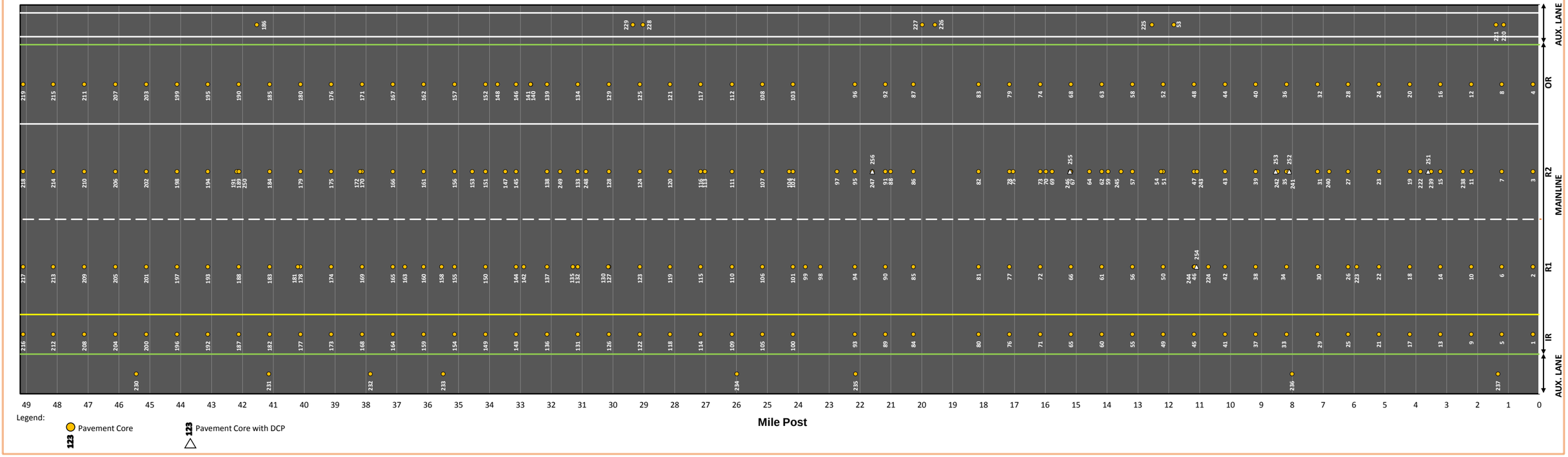
AREHNA | Engineering, Inc.
5012 West Lemon Street, Tampa, FL 33609
Phone 813.944.3464 ▪ Fax 813.944.4959

Designed By: AG
Checked By: AG
Drawn By: AH

APPENDIX 3

Core Data and Layout

Pavement Coring Layout
SR 93 (I-75) from Broward County Line to Toll Booth MP 0 - 49.102
FPN: 444008-1



Legend:

- Pavement Core
- Pavement Core with DCP

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19 Page: 1 of 5 Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0 Paved Lawn #REF! Other: 0		Vegetation	Curb and Gutter (Y/N):	N

MAIN LINE															TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
2	.0204	R1	Y	1.1		4.1									5.2					11.00					
6	1.216	R1	Y	0.9		3.9									4.8					13.00					
10	2.203	R1	Y	0.7		4.3									5.0					11.25					
14	3.205	R1	Y	1.1		4.4									5.5					11.00					
18	4.197	R1	Y	1.0		5.0									6.0					12.00					
22	5.196	R1	Y	1.0		4.0								1.5	6.5					12.00					
223	5.912	R1	Y	1.5		1.5									3.0					0.00					Bridge Deck
26	6.193	R1	N	0.9		4.1									5.0					10.50					
30	7.183	R1	Y	0.8		4.1									4.9					8.00					
34	7.189	R1	Y	1.0		2.8								2.1	5.9					10.50					
38	9.188	R1	Y	1.5		4.0									5.5					11.50					
42	10.178	R1	N	1.0		4.5									5.5					10.00					
224	10.720	R1	N	1.4		1.4									2.8					0.00					Bridge Deck
254	11.100	R1	Y	1.4		4.8									6.2					9.00					Just Outside Patch
244	11.163	R1	Y	1.0		4.8									5.8					11.25					Friction Course Raveling
46	11.183	R1	Y	1.5		4.8									6.3					9.00					
50	12.182	R1	Y	1.1		1.5								2.4	5.0					10.00					
56	13.177	R1	N	1.0		5.1									6.1					9.25					
61	14.172	R1	N	1.1		4.1									5.2					8.00					
66	15.171	R1	Y	1.0		2.0								2.9	5.9					10.50					
72	16.163	R1	Y	0.9		1.9								3.2	6.0					9.50					
77	17.161	R1	N	1.5		2.7								2.2	6.4					7.50					
81	18.160	R1	N	1.0		4.3									5.3					9.00					
85	20.271	R1	Y	1.2		4.2									5.4					9.00					
90	21.182	R1	N		0.8	4.6									5.4					10.00					
94	22.167	R1	Y	1.1		4.6									5.7					7.50					
98	23.283	R1	Y	1.4		0.9									2.3					0.00					Bridge Deck
99	23.771	R1	N	0.9		1.6									2.5					0.00					Bridge Deck
101	24.171	R1	Y	0.9		4.1									5.0					10.50					
106	25.160	R1	Y	0.8		5.0									5.8					12.00					
110	26.144	R1	N	1.0		5.1									6.1					12.00					
115	27.164	R1	Y	0.8		5.4								0.5	6.7					12.00					
119	28.153	R1	N	1.0		4.8									5.8					9.50					
123	29.131	R1	Y	1.1		4.2									5.3					8.00					

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19   Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0 Paved Lawn #REF! Other: 0 Vegetation			Curb and Gutter (Y/N):	N

MAIN LINE															TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
127	30.133	R1	Y	0.7		6.4									7.1					10.50					
130	30.153	R1	Y	1.3		1.5									2.8					0.00					Bridge Deck
132	31.139	R1	N	0.9		4.6									5.5					12.00					
135	31.298	R1	N	1.1		1.6									2.7					0.00					Bridge Deck
urse Deliminatio	31.713	R1	Y	0.6		4.6									5.2					11.00					Friction Course Delimination//Raveling
137	32.138	R1	Y	1.0		4.9									5.9					9.75					
142	32.889	R1	Y	1.3		1.9									3.2					0.00					Bridge Deck
144	33.140	R1	Y	1.0		4.1									5.1					11.00					
150	34.130	R1	N	1.0		4.5									5.5					9.50					
155	35.130	R1	Y	1.0		5.0									6.0					10.50					
158	35.552	R1	N	0.8		1.6									2.4					0.00					Bridge Deck
160	36.132	R1	N	0.9		4.5									5.4					11.50					
163	36.740	R1	Y	1.0		1.9									2.9					0.00					Bridge Deck
165	37.130	R1	Y	0.9		3.8									4.7					9.25					
169	38.124	R1	Y	0.8		4.6									5.4					11.50					
174	39.128	R1	N	1.0		4.0									5.0					10.50					
178	40.119	R1	Y	0.9		4.4									5.3					9.25					
181	40.207	R1	N	1.0		2.3									3.3					0.00					Bridge Deck
183	41.119	R1	Y	1.0		4.9									5.9					13.00					
188	42.120	R1	Y	0.9		4.4									5.3					12.00					
193	43.123	R1	Y	1.1		5.0									6.1					9.50					
197	44.119	R1	N	1.0		4.6									5.6					10.50					
201	45.115	R1	Y	0.9		4.7									5.6					11.25					
205	46.114	R1	N	1.0		2.6								1.4	5.0					9.50					
209	47.122	R1	Y	1.0		4.7									5.7					10.50					
213	48.127	R1	N	1.0		4.8									5.8					8.50					
217	49.120	R1	Y	1.1		3.5									4.6					8.50					
3	.0204	R2	Y	0.7		4.9									5.6					14.50					
7	1.216	R2	N	0.9		5.6									6.5					12.50					
11	2.203	R2	Y	0.9		5.2									6.1					13.00					
238	2.473	R2	Y	1.0		5.3									6.3					10.50					Friction Course Raveling
15	3.205	R2	N	1.0		4.7									5.7					14.00					
239	3.502	R2	Y		0.6	4.7									5.3					11.00					Patch
251	3.600	R2	Y	0.8		5.4									6.2					11.50					Friction Course Raveling

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19 Page: 3 of 5 Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0 Paved Lawn #REF! Other: 0		Vegetation	Curb and Gutter (Y/N):	N

MAIN LINE															TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
222	3.851	R2	N	1.0		2.0									3.0					0.00					Bridge Deck
19	4.197	R2	Y	0.7		4.6									5.3					13.50					
23	5.196	R2	N	1.1		4.8									5.9					13.50					
27	6.193	R2	Y	0.9		4.9									5.8					12.00					
240	6.808	R2	Y	0.7		3.5									4.2	2.2	A	III	S	12.00					Alligator Cracking
31	7.183	R2	Y	0.6		4.6									5.2					11.50					
35	7.189	R2	N	1.0		5.1									6.1					13.00					
252	8.100	R2	Y		1.0	5.0									6.0					10.00					Patch
241	8.112	R2	Y	1.2		1.5								2.8	5.5	5.5	A	II	S	10.00					Alligator Cracking
242	8.475	R2	Y	0.9		3.5									4.4	4.4	A	III	S	10.50					Alligator Cracking
253	8.540	R2	Y	0.8		4.3									5.1	5.1	A	IB	S	9.00					Just Outside Patch
39	9.188	R2	Y	1.0		4.5									5.5					13.00					
43	10.178	R2	N	1.2		4.1									5.3					12.00					
243	11.088	R2	Y			3.0									3.0	3.0	A	III	S	12.00					Alligator Cracking; Friction Course Delimination/Raveling
47	11.183	R2	Y	0.9		5.2									6.1					11.50					
51	12.182	R2	Y	0.8		5.4									6.2					10.50					
54	12.252	R2	Y	0.9		1.0									1.9					0.00					Bridge Deck
57	13.177	R2	Y	0.9		5.1									6.0					10.50					
245	13.544	R2	Y	0.9		3.9									4.8	4.8	A	II	S	11.00					Alligator Cracking/Bottom Portion of the Core Broke Off
59	13.966	R2	Y	1.0		1.5									2.5					0.00					Bridge Deck
62	14.172	R2	Y	0.9		4.1									5.0					11.25					
64	14.572	R2	Y	1.1		1.4									2.5					0.00					Bridge Deck
67	15.171	R2	N	0.9		4.5									5.4					11.00					
246	15.193	R2	Y	1.0		1.3								2.8	5.1	5.1	A	III	S	10.50					
255	15.200	R2	Y	0.9		1.0								3.2	5.1	5.1	A	IB	S	7.00					Alligator Cracking
69	15.781	R2	N		0.8	2.7								1.5	5.0					11.00					Patch
70	15.980	R2	Y	1.0		4.1									5.1					10.00					Patch
73	16.163	R2	Y	0.9		3.4								2.5	6.8					12.00					
75	17.041	R2	Y	1.2		1.3									2.5					0.00					Bridge Deck
78	17.161	R2	N	0.9		3.1								1.9	5.9					10.00					
82	18.160	R2	Y	0.8		4.4									5.2					9.50					
86	20.271	R2	N	1.0		4.0									5.0					11.50					
88	21.009	R2	Y	1.0		1.8									2.8					0.00					Bridge Deck
91	21.182	R2	Y	1.0		4.2									5.2					9.00					

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19 Page: 4 of 5 Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0 Paved Lawn #REF! Other: 0		Vegetation	Curb and Gutter (Y/N):	N

MAIN LINE															TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
247	21.600	R2	Y			4.7									4.7					9.50					Friction Course Delimination//Raveling
256	21.600	R2	N	1.0		4.9									5.9					9.50					Friction Course Raveling
95	22.167	R2	N	1.0		4.1									5.1					10.00					
97	22.746	R2	Y	1.0		1.6									2.6					0.00					Bridge Deck
102	24.171	R2	Y	1.0		4.0									5.0					10.50					
104	24.296	R2	Y				0.4	0.5		6.2					7.1					9.00					Patch
107	25.160	R2	N	0.8		4.5									5.3					10.25					
111	26.144	R2	Y	0.8		5.7									6.5					10.00					
113	27.024	R2	Y	0.9		1.4									2.3					0.00					Bridge Deck
116	27.164	R2	N	0.9		5.1									6.0					12.00					
120	28.153	R2	Y	1.0		4.7									5.7					11.00					
124	29.131	R2	N	1.0		3.9									4.9					11.50					
128	30.133	R2	Y	1.0		7.1									8.1					11.00					
248	30.878	R2	N	0.7		4.8									5.5					10.50					Friction Course Delimination//Raveling
133	31.139	R2	Y	0.9		4.6									5.5					11.00					
138	32.138	R2	N	1.0		4.5									5.5					13.25					
145	33.140	R2	N	0.9		4.3									5.2					10.50					
147	33.489	R2	N	1.2		1.3									2.5					0.00					Bridge Deck
151	34.130	R2	Y	0.9		4.2									5.1					12.50					
153	34.558	R2	Y	1.6											1.6					0.00					Bridge Deck
156	35.130	R2	N	0.9		4.6									5.5					10.75					
161	36.132	R2	Y	0.9		4.4									5.3					12.00					
166	37.130	R2	N	0.9		4.2									5.1					12.00					
170	38.124	R2	Y	0.9		5.0									5.9					11.50					
172	38.191	R2	N	1.4		2.1									3.5					0.00					Bridge Deck
175	39.128	R2	N	1.0		4.8									5.8					10.00					
179	40.119	R2	Y	0.7		5.6									6.3					14.00					
184	41.119	R2	N	1.0		5.0									6.0					11.50					
250	42.111	R2	Y	1.0		5.0									6.0					10.00					Friction Course Raveling
189	42.120	R2	Y	1.1		4.5									5.6					10.00					
191	42.183	R2	N	1.3		1.7									3.0					0.00					Bridge Deck
194	43.123	R2	N	1.2		2.4								2.0	5.6					10.00					
198	44.119	R2	Y	0.9		4.9									5.8					10.50					
202	45.115	R2	Y			1.3									1.3					5.00					

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19 Page: 5 of 5 Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0 Paved Lawn #REF! Other: 0 Vegetation			Curb and Gutter (Y/N):	N

MAIN LINE															TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
206	46.114	R2	Y	0.9		4.6									5.5					10.50					
210	47.122	R2	Y	1.3		4.7									6.0					11.50					
214	48.127	R2	N	0.8		4.4									5.2					8.50					
218	49.120	R2	Y	0.5		3.7									4.2					9.00					
AVG				**1.0**	**0.8**	**3.9**	**0.4**	**0.5**		**6.2**				**2.2**	**5.1**	**4.4**				**10.7**					

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19 Page: 1 of 3 Typical Section No.: 1

W.P.I. No.:	Name: I-75/SR93/Alligator Alley			Lanes:	4
Fin. Proj. ID: 444008-1	From: Broward County Line			Shoulder Type and Condition:	Paved
F.A. Proj. No.:	To: South/East of Toll Booth			Inside:	1
County: Collier	Beg MP: 0.000	End MP: 49.102	Lgth: 49.102	Outside:	1
Median Curbed (Y / N): 0 Paved Lawn #REF! Other: 0			Vegetation	Curb and Gutter (Y/N):	N

	SHOULDERS														TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
1	.0204	IR	N				1.5								1.5					7.50					
5	1.216	IR	N		0.7	1.9									2.6					--					
9	2.203	IR	N			1.1									1.1					10.00					
13	3.205	IR	N			1.1									1.1					12.00					
17	4.197	IR	N			1.0									1.0					12.50					
21	5.196	IR	N			2.3									2.3					12.50					
25	6.193	IR	N				1.4								1.4					10.00					
29	7.183	IR	N			1.5									1.5					6.50					
33	7.189	IR	N			1.3									1.3					9.00					
37	9.188	IR	N				1.1								1.1					6.25					
41	10.178	IR	N			0.9									0.9					8.50					
45	11.183	IR	N			1.0									1.0					8.50					
49	12.182	IR	N			0.8									0.8					12.00					
55	13.177	IR	N				0.9								0.9					9.25					
60	14.172	IR	N			1.6									1.6					8.00					
65	15.171	IR	N			1.3									1.3					8.50					
71	16.163	IR	N			1.2									1.2					10.00					
76	17.161	IR	N			1.4									1.4					11.50					
80	18.160	IR	N				1.2								1.2					8.00					
84	20.271	IR	N			1.2									1.2					8.00					
89	21.182	IR	N			1.4									1.4					10.50					
93	22.167	IR	N			1.2									1.2					7.00					
100	24.171	IR	N			1.0									1.0					10.00					
105	25.160	IR	N			2.0									2.0					12.50					
109	26.144	IR	N			1.5									1.5					12.50					
114	27.164	IR	N			2.0									2.0					12.00					
118	28.153	IR	N			1.7									1.7					11.00					
122	29.131	IR	N			1.5									1.5					11.00					
126	30.133	IR	N			2.1									2.1					10.50					
131	31.139	IR	N			1.7									1.7					11.25					
136	32.138	IR	N			1.5									1.5					11.50					
143	33.140	IR	N			1.5									1.5					11.13					
149	34.130	IR	N			1.4									1.4					11.00					
154	35.130	IR	N			1.6									1.6					11.50					

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19 Page: 2 of 3 Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0	Paved	Lawn #REF! Other: 0 Vegetation	Curb and Gutter (Y/N):	N

				SHOULDERS											TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
159	36.132	IR	N			1.2									1.2					13.00					
164	37.130	IR	N			1.0									1.0					9.25					
168	38.124	IR	N						1.0	0.6					1.6					11.00					
173	39.128	IR	N			1.6									1.6	0.5	C	IB	S	11.00					
177	40.119	IR	N			1.0									1.0					9.50					
182	41.119	IR	N			1.2									1.2					12.00					
187	42.120	IR	N			1.1									1.1					11.50					
192	43.123	IR	N			0.8									0.8					13.00					
196	44.119	IR	N			1.3									1.3	0.5	C	IB	L	11.50					
200	45.115	IR	N			1.3									1.3					10.00					
204	46.114	IR	N			0.9									0.9					10.00					
208	47.122	IR	N			1.5									1.5	0.5	A	IB	M	11.50					
212	48.127	IR	N			1.2									1.2					10.50					
216	49.120	IR	N				2.7								2.7					10.50					
4	.0204	OR	N				1.1								1.1					13.25					
8	1.216	OR	N				1.3			3.7					5.0	3.0	B	II	L	14.50					
12	2.203	OR	N				1.2								1.2					10.00					
16	3.205	OR	N				1.3								1.3					14.00					
20	4.197	OR	N				1.1								1.1					10.00					
24	5.196	OR	N				1.1								1.1					17.00					
28	6.193	OR	N				1.2								1.2					1.25					
32	7.183	OR	N				0.8								0.8					14.00					
36	7.189	OR	N				1.3								1.3					11.00					
40	9.188	OR	N				1.0								1.0					9.00					
44	10.178	OR	N				1.2								1.2					13.00					
48	11.183	OR	N				1.1								1.1					10.00					
52	12.182	OR	N				1.2								1.2					10.50					
58	13.177	OR	N				1.5								1.5					7.00					
63	14.172	OR	N				1.3								1.3					10.00					
68	15.171	OR	N				1.3								1.3					14.00					
74	16.163	OR	N				1.2								1.2					8.50					
79	17.161	OR	N				1.1								1.1					11.00					
83	18.160	OR	N				1.4								1.4					6.50					
87	20.271	OR	N				1.3								1.3	0.7	B	II	L	11.00					

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19 Page: 3 of 3 Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0	Paved	Lawn #REF! Other: 0 Vegetation	Curb and Gutter (Y/N):	N

				SHOULDERS											TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
92	21.182	OR	N				0.9								0.9					10.50					
96	22.167	OR	N				1.5								1.5					9.50					
103	24.171	OR	N				1.1								1.1					11.00					
108	25.160	OR	N				1.1								1.1					8.00					
112	26.144	OR	N				1.4								1.4					11.50					
117	27.164	OR	N				1.6								1.6					9.00					
121	28.153	OR	N				1.4								1.4					6.25					
125	29.131	OR	N				1.9								1.9					10.00					
129	30.133	OR	N				2.2								2.2					11.00					
134	31.139	OR	N				1.5								1.5					12.50					
139	32.138	OR	N				1.1								1.1					15.00					
140	32.662	OR	N				1.2								1.2					15.00					Patch
141	32.668	OR	N				1.9								1.9					15.00					Patch
146	33.140	OR	N				1.1								1.1					11.50					
148	33.379	OR	N		0.3	1.4									1.7					0.00					Patch; Bridge Abutment
152	34.130	OR	N				1.3								1.3					15.00					
157	35.130	OR	N				1.2								1.2					11.50					
162	36.132	OR	N				1.2								1.2					13.50					
167	37.130	OR	N				0.8								0.8	0.8	A	II	L	11.00					
171	38.124	OR	N			0.8									0.8					11.00					
176	39.128	OR	N			1.1									1.1	1.1	A	IB	M	12.00					
180	40.119	OR	N			0.9									0.9					12.00					
185	41.119	OR	N			0.8									0.8					13.50					
190	42.120	OR	N			0.8									0.8					10.00					
195	43.123	OR	N			0.9									0.9					8.25					
199	44.119	OR	N			1.1									1.1	0.3	C	IB	L	9.50					
203	45.115	OR	N	0.8		4.7									5.5					9.50					
207	46.114	OR	N			1.0									1.0					14.00					
211	47.122	OR	N			1.0									1.0					12.00					
215	48.127	OR	N			0.9									0.9	0.9	C	II	S	12.00					
219	49.120	OR	N				1.5								1.5					11.00					
AVG				**0.8**	**0.5**	**1.3**	**1.3**		**1.0**	**2.2**					**1.4**	**0.9**				**10.6**					

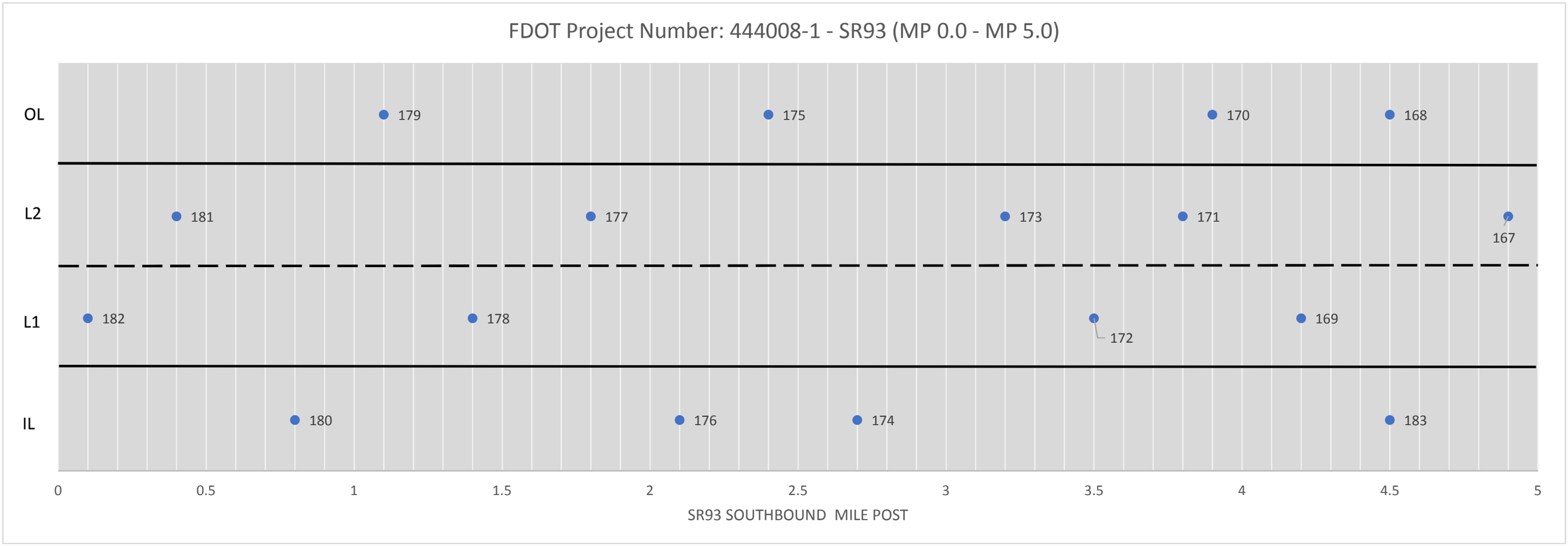
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

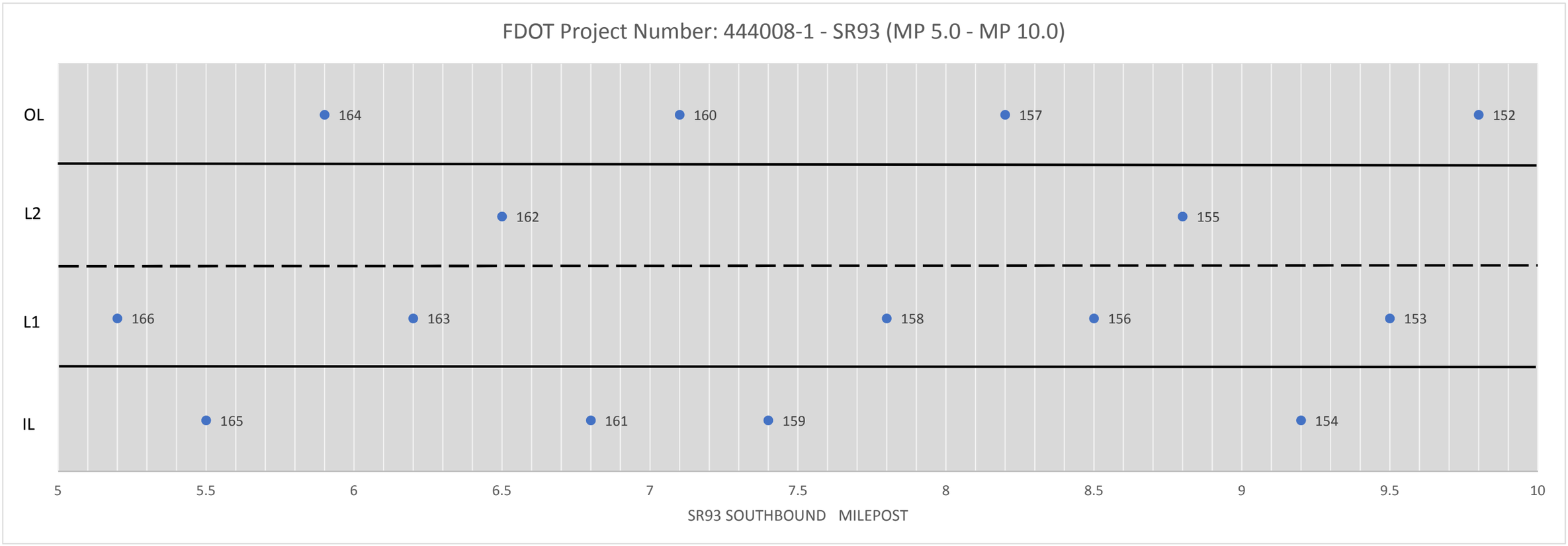
PAVEMENT EVALUATION CORING AND CONDITION DATA

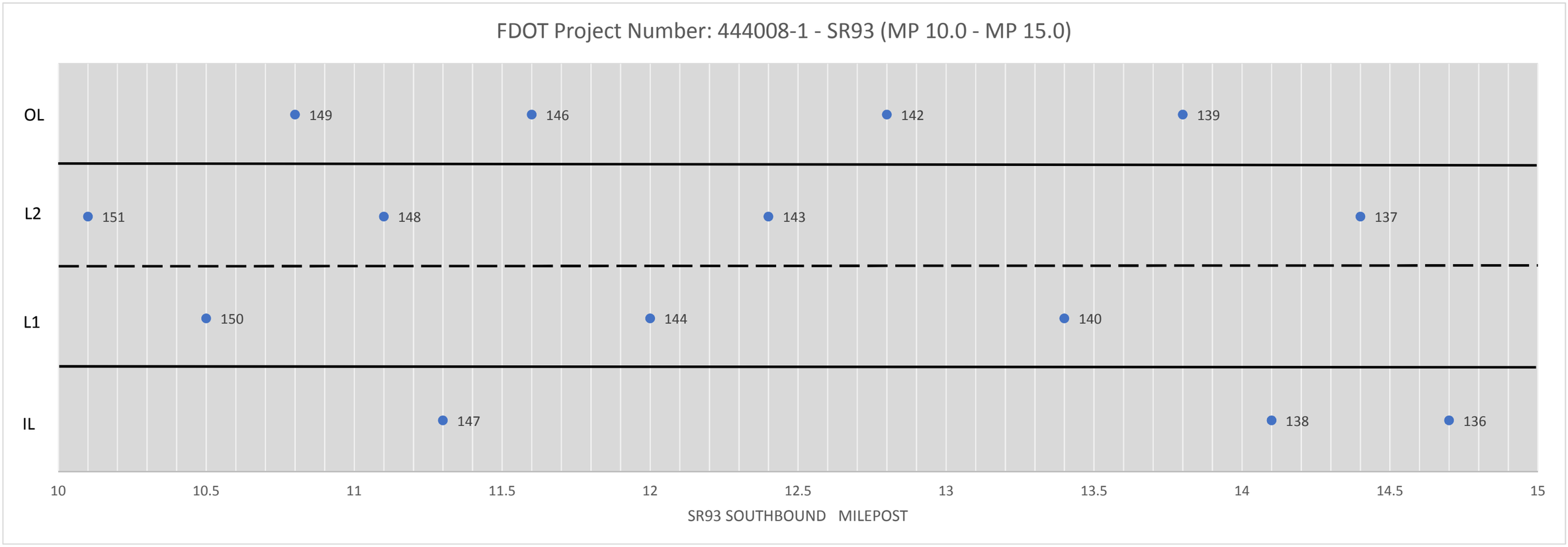
Cored by: C. Malone, P. Griffith Dates Cored: 8/5/19 - 8/21/19 Page: 1 of 1 Typical Section No.: 1

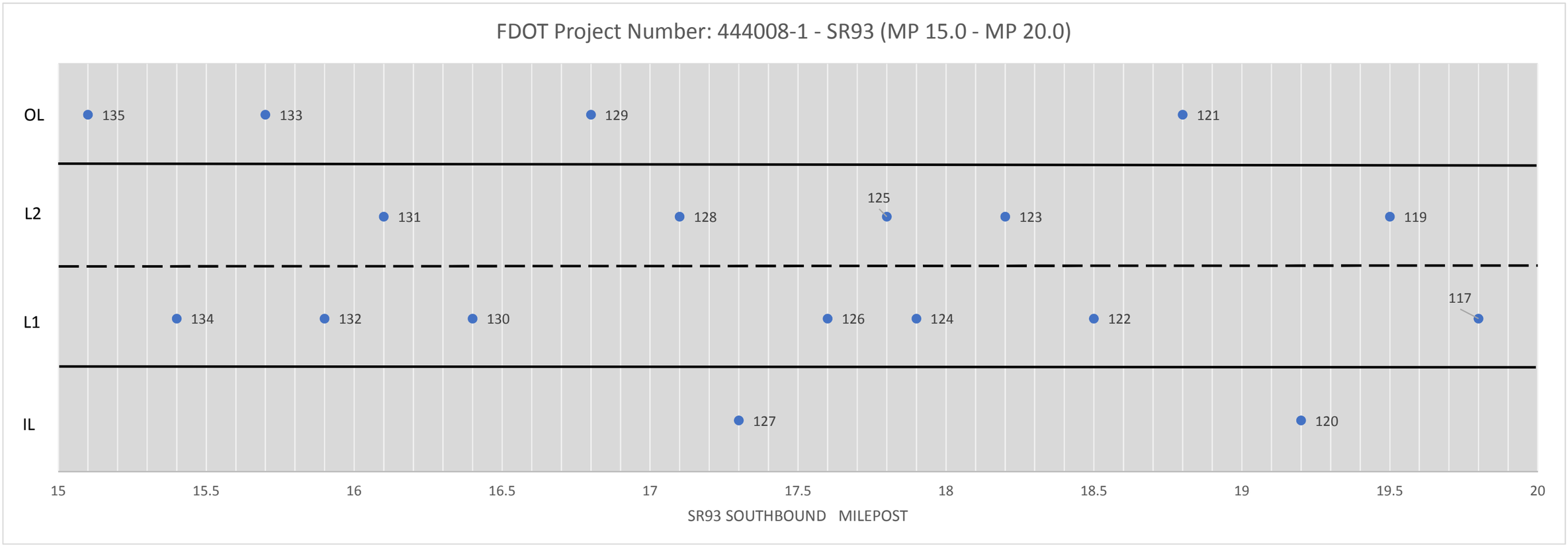
W.P.I. No.:	Name: I-75/SR93/Alligator Alley			Lanes:	4
Fin. Proj. ID: 444008-1	From: Broward County Line			Shoulder Type and Condition:	Paved
F.A. Proj. No.:	To: South/East of Toll Booth			Inside:	1
County: Collier	Beg MP: 0.000	End MP: 49.102	Lgth: 49.102	Outside:	1
Median Curbed (Y / N): 0 Paved Lawn #REF! Other: 0			Vegetation	Curb and Gutter (Y/N):	N

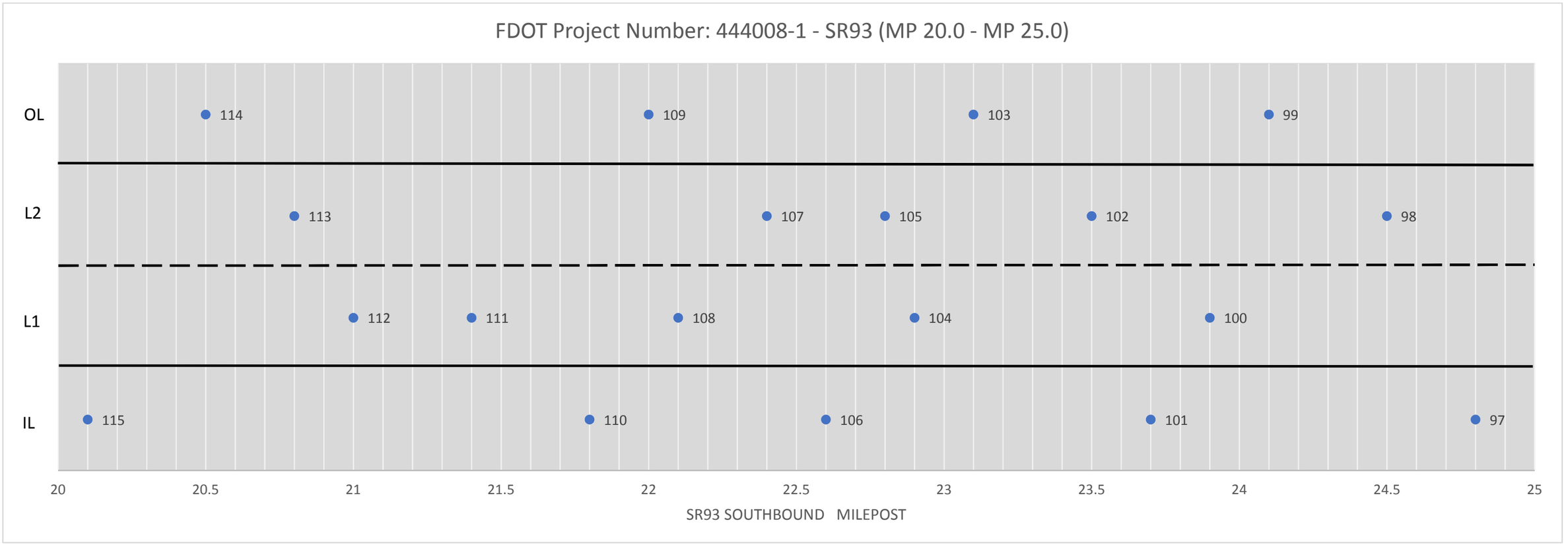
				TURN LANES AND SECONDARY LANES											TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS					COMMENTS
Core No.	MP	LANE	W/P	FC5	F95	S	SP1F	FC5	SP2F	S				BIND		DEPTH	TYPE	CLASS	EXTENT	LR	SHELL	ABC	Concrete	STAB	
237	1.340	R1	N		1.1	4.4									5.5					0.00		8.7			Crossover
236	8.010	R1	N			3.2									3.2					14.00					Crossover
235	22.144	R1	N			0.9									0.9					12.00					Crossover
234	25.991	R1	N			3.4									3.4					11.50					Crossover
233	35.497	R1	N			1.0									1.0					12.00					Crossover
232	37.856	R1	N			1.0									1.0					12.50					Crossover
231	41.148	R1	N		0.7	2.2									2.9					10.50					Crossover
230	45.440	R1	N			0.7									0.7					9.50					Crossover
220	1.155	R2	Y	0.7		1.8									2.5					11.00					Service Road
221	1.402	R2	Y	1.2		1.7									2.9					14.00					Service Road
53	11.836	R2	Y				2.0								2.0					9.50					Rest Area Ramp
225	12.547	R2	N		0.7	1.1									1.8					11.00					Rest Area Ramp
226	19.575	R2	Y		1.5		1.5								3.0					11.50					Rest Area Ramp
227	19.986	R2	N	1.0		3.8									4.8					10.50					Rest Area Ramp
228	29.031	R2	Y	0.9		1.7									2.6					12.00					I-75 off Ramp to US 29
229	29.358	R2	Y	0.7		2.1									2.8					10.00					I-75 on Ramp from US 29
186	41.537	R2	N				1.1			1.9					3.0					5.00					Service Road Entrance Ramp
AVG				**0.9**	**1.0**	**2.1**	**1.5**			**1.9**					**2.6**					**10.4**		**8.7**			

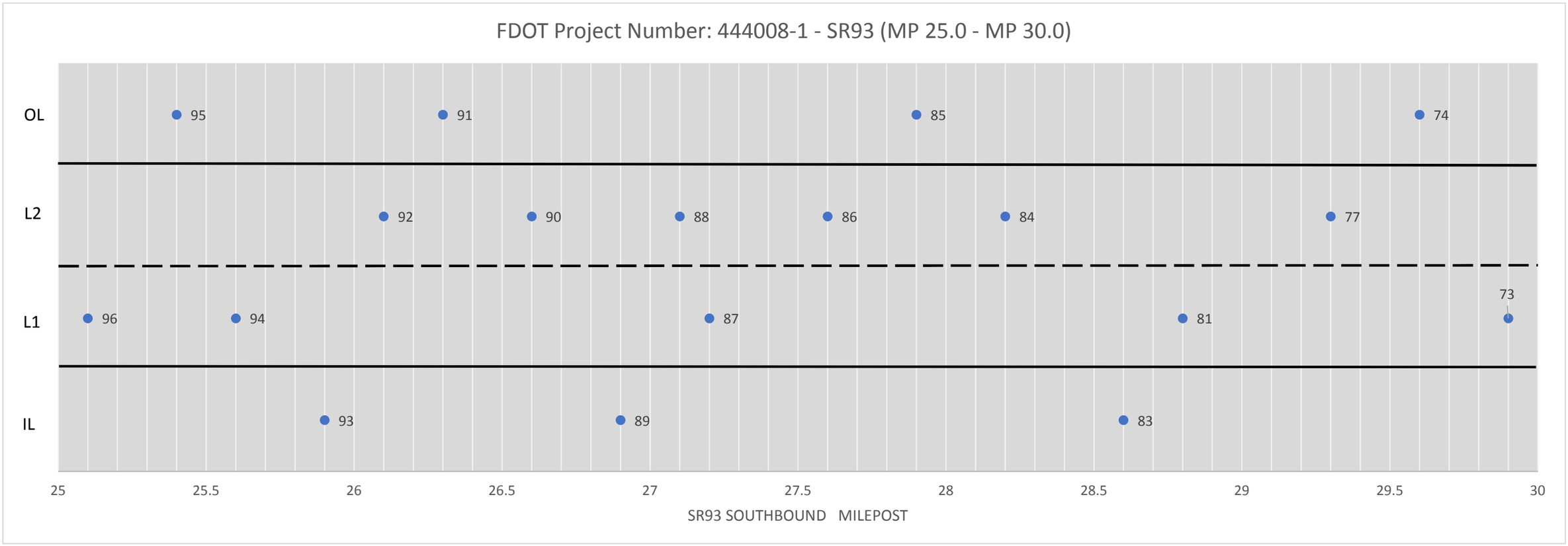

FDOT Project Number: 444008-1 - SR93 (MP 0.0 - MP 5.0)
OL
L2
L1
IL
179
175
170
168
181
177
173
171
167
182
178
172
169
180
176
174
183
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
SR93 SOUTHBOUND MILE POST

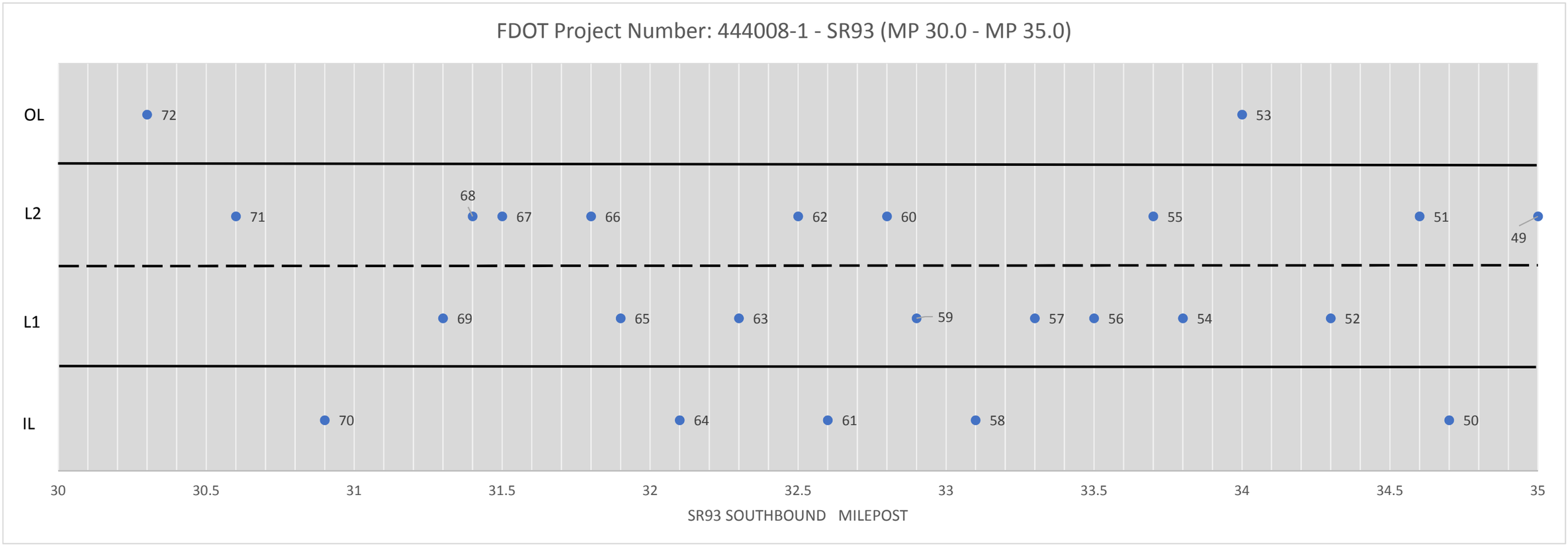

FDOT Project Number: 444008-1 - SR93 (MP 5.0 - MP 10.0)
OL
L2
L1
IL
164
160
157
152
162
155
166
163
158
156
153
165
161
159
154
5
5.5
6
6.5
7
7.5
8
8.5
9
9.5
10
SR93 SOUTHBOUND MILEPOST

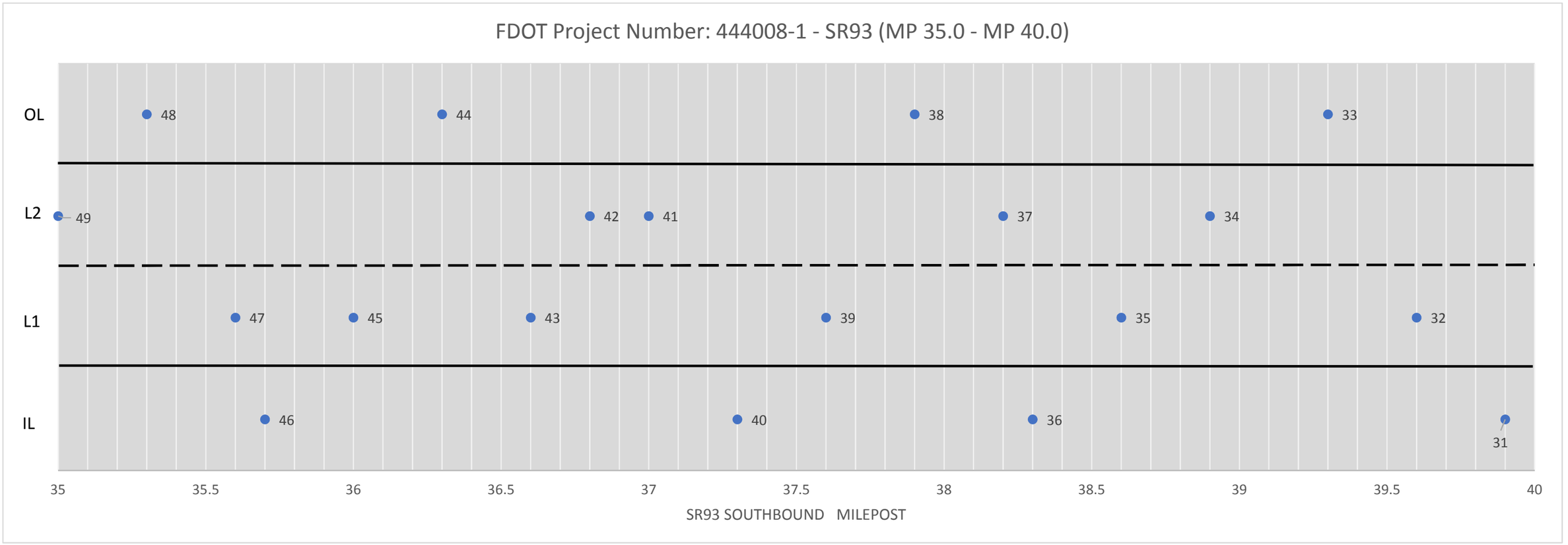

FDOT Project Number: 444008-1 - SR93 (MP 10.0 - MP 15.0)
OL
L2
L1
IL
149
146
142
139
151
148
143
137
150
144
140
147
138
136
10
10.5
11
11.5
12
12.5
13
13.5
14
14.5
15
SR93 SOUTHBOUND MILEPOST

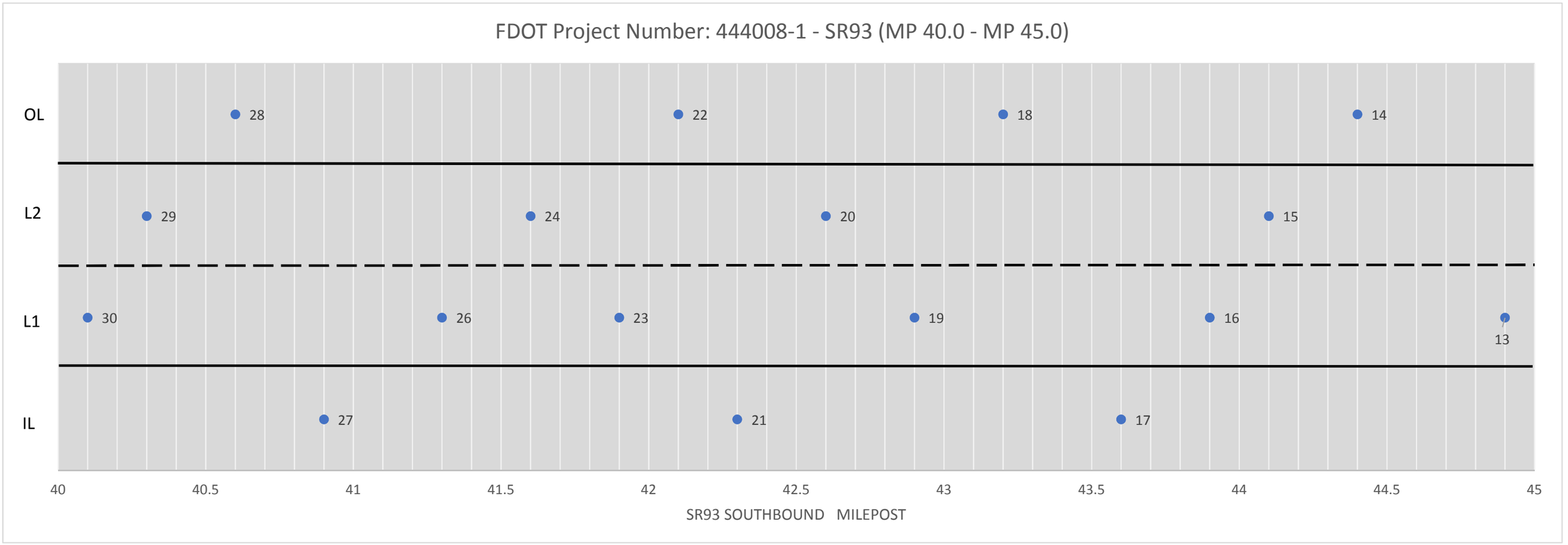

FDOT Project Number: 444008-1 - SR93 (MP 15.0 - MP 20.0)
OL
L2
L1
IL
135
133
129
121
131
128
125
123
119
134
132
130
126
124
122
117
127
120
15
15.5
16
16.5
17
17.5
18
18.5
19
19.5
20
SR93 SOUTHBOUND MILEPOST

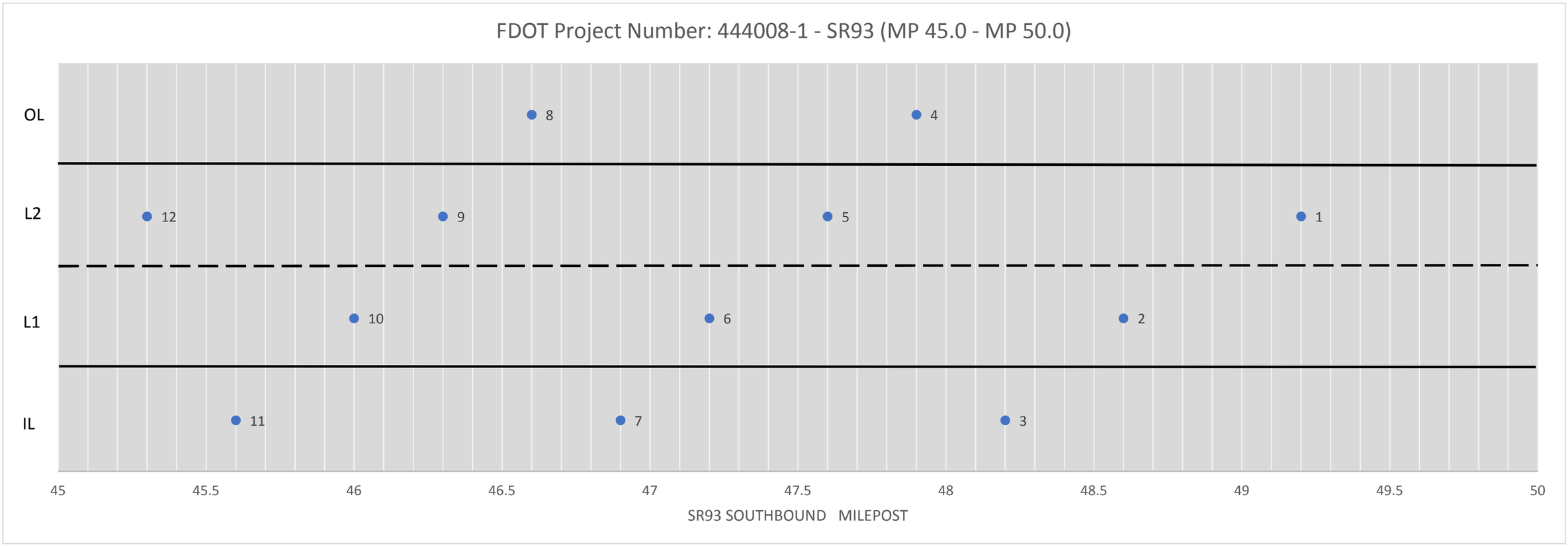

FDOT Project Number: 444008-1 - SR93 (MP 20.0 - MP 25.0)
OL
L2
L1
IL
114
109
103
99
113
107
105
102
98
112
111
108
104
100
115
110
106
101
97
20
20.5
21
21.5
22
22.5
23
23.5
24
24.5
25
SR93 SOUTHBOUND MILEPOST


FDOT Project Number: 444008-1 - SR93 (MP 25.0 - MP 30.0)
OL
L2
L1
IL
95
91
85
74
92
90
88
86
84
77
96
94
87
81
73
93
89
83
25
25.5
26
26.5
27
27.5
28
28.5
29
29.5
30
SR93 SOUTHBOUND MILEPOST


FDOT Project Number: 444008-1 - SR93 (MP 30.0 - MP 35.0)
OL
L2
L1
IL
72
53
71
68
67
66
62
60
55
51
49
69
65
63
59
57
56
54
52
70
64
61
58
50
30
30.5
31
31.5
32
32.5
33
33.5
34
34.5
35
SR93 SOUTHBOUND MILEPOST


FDOT Project Number: 444008-1 - SR93 (MP 35.0 - MP 40.0)
OL
L2
L1
IL
48
44
38
33
49
42
41
37
34
47
45
43
39
35
32
46
40
36
31
35
35.5
36
36.5
37
37.5
38
38.5
39
39.5
40
SR93 SOUTHBOUND MILEPOST


FDOT Project Number: 444008-1 - SR93 (MP 40.0 - MP 45.0)
OL
L2
L1
IL
28
22
18
14
29
24
20
15
30
26
23
19
16
13
27
21
17
40
40.5
41
41.5
42
42.5
43
43.5
44
44.5
45
SR93 SOUTHBOUND MILEPOST


FDOT Project Number: 444008-1 - SR93 (MP 45.0 - MP 50.0)
OL
L2
L1
IL
8
4
12
9
5
1
10
6
2
11
7
3
45
45.5
46
46.5
47
47.5
48
48.5
49
49.5
50
SR93 SOUTHBOUND MILEPOST

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: Shannon Davidson Dates Cored: 8/4/19 to 8/20/19   Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	#REF! Paved	Other:		Curb and Gutter (Y/N):	N

MAIN LINE												TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS			COMMENTS
Core No.	MP	LANE	W/P	FC5	SP1F	S	BIND						DEPTH	TYPE	CLASS	EXTENT	LR	STAB SUB	Concrete	
182	0.1	L1	Y	0.8	1.5	3.1						5.4					12.0	-		
181	0.4	L1	N	0.7	1.5	3.5	1.6					7.3					12.0	-		
177	1.8	L1	N	1.2	1.4	1.3	4.0					7.9					12.0	-		
173	3.2	L1	N	1.0	1.7	3.5	1.9					8.1					12.0	-		
171	3.8	L1	N	0.9	1.4	-	-					2.3					-	-		Bridge Deck. Bridge No. 030279. CONC BASE
167	4.9	L1	N	1.0	1.3	5.3	-					7.6					12.0	-		
162	6.5	L1	N	0.9	1.7	4.5	1.3					8.4					12.0	-		
155	8.8	L1	N	0.9	1.6	1.5	1.9					5.9					12.0	-		
151	10.1	L1	N	1.0	1.4	4.9	1.7					9.0					12.0	-		
148	11.1	L1	N	0.9	1.3	4.2	2.2					8.6					12.0	-		
143	12.4	L1	N	1.1	1.3	3.3	-					5.7					12.0	-		
137	14.4	L1	N	1.1	1.6	4.0	1.6					8.3					11.0	-		
131	16.1	L1	Y	0.9	1.6	3.0	1.1					6.6					12.0	-		
128	17.1	L1	N	1.0	1.7	-	-					2.7					-	-		Bridge Deck. Bridge No. 030257. Unable to fully extract core from bridge deck.
125	17.8	L1	Y	0.8	1.5	3.6	-					5.9					12.0	-		Bridge Departure. Little Marsh.
123	18.2	L1	N	0.9	2.3	4.0	1.2					8.4					12.0	-		
119	19.5	L1	N	0.8	1.5	3.8	0.7					6.8					12.0	-		
113	20.8	L1	N	1.1	1.4	5.0	-					7.5					12.0	-		
107	22.4	L1	N	0.8	1.3	3.7	-					5.8					12.00	-		
105	22.8	L1	Y	1.1	2.0	-	-					3.1					-	-		CONC BASE
102	23.5	L1	N	1.0	1.2	4.1	-					6.3					12.0	-		
98	24.5	L1	Y	0.8	-	4.3	-					5.1					11.0	-		
92	26.1	L1	N	1.2	1.8	-	-					3.0					-	-		Bridge Deck. Bridge No. 030242 Partial core, unable to fully extract from bridge deck.
90	26.6	L1	Y	1.0	1.8	3.4	1.3					7.5					11.0	-		
88	27.1	L1	N	1.0	1.8	-	-					2.8					-	-		Bridge Deck. Bridge No. 030240. CONC BASE
86	27.6	L1	Y	1.0	1.6	3.8	1.5					7.9					12.0	-		
84	28.2	L1	Y	1.0	1.3	3.8	1.2					7.3					12.0	-		
77	29.3	L1	N	0.7	1.2	3.3	2.1					7.3					11.0	-		

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: Shannon Davidson Dates Cored: 8/4/19 to 8/20/19 Page: 2 of 4 Typical Section No.: 1

W.P.I. No.:	Name: I-75/SR93/Alligator Alley			Lanes:	4
Fin. Proj. ID: 444008-1	From: Broward County Line			Shoulder Type and Condition:	Paved
F.A. Proj. No.:	To: South/East of Toll Booth			Inside:	1
County: Collier	Beg MP: 0.000	End MP: 49.102	Lgth: 49.102	Outside:	1
Median Curbed (Y / N): #REF! Paved	Other:			Curb and Gutter (Y/N):	N

MAIN LINE												TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS			COMMENTS
Core No.	MP	LANE	W/P	FC5	SP1F	S	BIND						DEPTH	TYPE	CLASS	EXTENT	LR	STAB SUB	Concrete	
71	30.6	L1	N	0.9	1.2	4.1	1.4					7.6					12.0	-		
68	31.4	L1	N	1.1	1.9	-	-					3.0					-	-		Bridge Deck. Bridge No. 030231. CONC BASE
67	31.5	L1	N	0.8	1.3	5.2	-					7.3					12.0	-		
66	31.8	L1	N	0.9	2.2	2.4	-					5.5					12.0	-		Worming.
62	32.5	L1	N	1.1	1.9	-	-					3.0					-	-		Bridge Deck. Bridge No. 030228. CONC BASE
60	32.8	L1	N	1.1	-	4.7	-					5.8					12.0	-		
56	33.5	L1	Y	1.7	2.1	-	-					3.8					-	-		Bridge Deck. Bridge No. 030224.
55	33.7	L1	Y	0.6	1.2	2.8	-					4.6					12.0	-		
51	34.6	L1	Y	0.7	2.2	-	-					2.9					-	-		Bridge Deck. Bridge No. 030221. ~ 3" wide and 1/2" deep, lengethwise crack at abudment
49	35.0	L1	N	0.9	1.5	3.3	1.6					7.3					11.0	-		
42	36.8	L1	Y	1.0	2.5	-	-					3.5					-	-		Bridge Deck. Bridge No. 030215. Unable to extract from bridge deck. Core length is approximate based on field measurement by using drill bit to drill through asphalt.
41	37.0	L1	Y	1.0	1.5	4.5	-					7.0					12.0	-		
37	38.2	L1	Y	1.2	2.2	-	-					3.4					-	-		Bridge Deck. Bridge No. 030003 Cracks at bridge approach/departure
34	38.9	L1	Y	0.9	1.5	3.8	1.2					7.4					12.0	-		
29	40.3	L1	N	1.0	1.6	3.3	-					5.9					12.0	-		
24	41.6	L1	Y	0.9	2.1	3.3	1.9					8.2					11.0	-		
20	42.6	L1	N	0.9	2.1	3.0	1.9					7.9					12.0	12.0		
15	44.1	L1	N	0.9	2.4	2.7	1.8					7.8					11.0	12.0		
12	45.3	L1	N	0.7	2.0	3.3	1.9					7.9					12.0	12.0		
9	46.3	L1	N	1.0	1.8	2.9	1.3					7.0					12.0	12.0		
5	47.6	L1	Y	0.8	2.1	3.1	1.4					7.4					12.0	12.0		
1	49.2	L1	N	0.8	1.7	3.0	-					5.5					3.5	12.0		
178	1.4	L2	Y	1.0	1.3	3.4	1.6					7.3					12.0	-		
172	3.5	L2	Y	1.1	1.4	3.6	0.6					6.7					12.0	-		
169	4.2	L2	Y	0.9	2.3	3.7	1.0					7.9					12.0	-		
166	5.2	L2	Y	0.9	1.5	1.5	3.4					7.3					11.0	-		Rim Gouging
163	6.2	L2	Y	0.9	1.4	2.8	1.9					7.0					12.0	-		

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: Shannon Davidson Dates Cored: 8/4/19 to 8/20/19 Page: 3 of 4 Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	#REF! Paved	Other:		Curb and Gutter (Y/N):	N

MAIN LINE												TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS			COMMENTS
Core No.	MP	LANE	W/P	FC5	SP1F	S	BIND						DEPTH	TYPE	CLASS	EXTENT	LR	STAB SUB	Concrete	
158	7.8	L2	Y	0.9	1.2	2.6	2.4					7.1					11.0	-		
156	8.5	L2	Y	0.9	1.6	3.3	2.4					8.2					12.0	-		
153	9.5	L2	Y	0.9	1.4	3.3	1.4					7.0					12.0	-		
150	10.5	L2	N	0.9	1.4	4.2	1.8					8.3					12.0	-		
144	12.0	L2	N	1.1	1.3	3.6	-					6.0					12.0	-		
140	13.4	L2	Y	0.9	1.5	3.9	2.1					8.4					11.0	-		
134	15.4	L2	Y	0.7	2.4	3.0	2.1					8.2					12.0	-		Large burn area on outside shoulder.
132	15.9	L2	Y	0.9	1.4	-	-					2.3					-	-		Bridge Deck. Bridge No. 030259
130	16.4	L2	Y	0.8	1.5	3.2	1.2					6.7					11.0	-		
126	17.6	L2	Y	0.9	1.2	2.6	1.6					6.3					12.0	-		
124	17.9	L2	Y	1.1	2.0	2.5	-					5.6					12.0	-		Bridge Approach. Bridge No. 030012
122	18.5	L2	N	0.9	2.2	2.6	1.4					7.1					12.0	-		
117	19.8	L2	Y	0.8	1.4	3.0	1.7					6.9					12.0	-		
112	21.0	L2	Y	1.0	2.2	-	-					3.2					-	-		Bridge Deck. Bridge No. 030011
111	21.4	L2	Y	0.8	1.5	3.6	1.7					7.6					11.0	-		Rim Gouging
108	22.1	L2	Y	1.1	1.3	-	-					2.4					-	-		Bridge Deck. Bridge No. 030253
104	22.9	L2	Y	1.0	1.2	2.9	-					5.1					11.0	-		
100	23.9	L2	Y	0.9	1.2	3.1	-					5.2					12.0	-		
96	25.1	L2	Y	1.0	1.7	-	-					2.7					-	-		Bridge Deck. Bridge No. 030244 Cracks at Bridge Joints. Partial Core, unable to fully extract from bridge deck.
94	25.6	L2	Y	0.8	1.7	3.9	1.2					7.6					12.0	-		
87	27.2	L2	Y	1.0	1.3	3.4	-					5.7					12.0	-		
81	28.8	L2	Y	1.1	1.5	4.2	1.0					7.8					11.0	-		
73	29.9	L2	Y	0.8	1.5	3.5	1.8					7.6					12.0	-		
69	31.3	L2	Y	0.7	1.5	3.9	-					6.1					11.0	-		
65	31.9	L2	Y	0.7	1.6	-	-					2.3					-	-		Bridge Deck. Bridge No. 030006. CONC BASE
63	32.3	L2	Y	0.7	1.5	3.0	-					5.2					12.0	-		
59	32.9	L2	Y	1.1	1.9	-	-					3.0					-	-		Bridge Deck. Bridge No. 030226.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: Shannon Davidson Dates Cored: 8/4/19 to 8/20/19   Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	#REF! Paved	Other:		Curb and Gutter (Y/N):	N

MAIN LINE												TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS			COMMENTS
Core No.	MP	LANE	W/P	FC5	SP1F	S	BIND						DEPTH	TYPE	CLASS	EXTENT	LR	STAB SUB	Concrete	
57	33.3	L2	Y	0.8	1.4	2.9	-					5.1					12.0	-		
54	33.8	L2	Y	0.9	1.6	-	-					2.5					-	-		Bridge Deck. Bridge No. 030005. CONC BASE
52	34.3	L2	Y	0.8	1.4	4.8	-					7.0					11.0	-		Small Gauge Approx 1" wide x 1" deep
47	35.6	L2	Y	0.8	1.5	-	-					2.3					-	-		Bridge Deck. Bridge No. 030216. Wheel rim marks. Cracks at bridge approach/departure.
45	36.0	L2	N	0.8	2.1	3.0	1.6					7.5					11.0	-		
43	36.6	L2	Y	0.9	2.3	3.3	-					6.5					12.0	-		
39	37.6	L2	Y	0.8	2.0	3.0	1.4					7.2					12.0	-		
35	38.6	L2	Y	0.9	1.5	3.5	1.6					7.5					12.0	-		
32	39.6	L2	Y	0.8	1.4	3.3	1.5					7.0					12.0	-		
30	40.1	L2	Y	0.8	1.8	3.0	-					5.6					12.0	-		
26	41.3	L2	Y	0.7	1.4	4.0	1.8					7.9					11.0	-		
23	41.9	L2	Y	0.8	2.0	3.0	2.2					8.0					12.0	-		
19	42.9	L2	Y	0.8	2.5	4.2	-					7.5					12.0	12.0		
16	43.9	L2	Y	0.9	1.9	2.6	2.0					7.4					12.0	12.0		
13	44.9	L2	Y	1.0	1.8	2.8	2.1					7.7					10.0	12.0		
10	46.0	L2	N	1.1	2.2	2.6	1.6					7.5					12.0	12.0		
6	47.2	L2	Y	0.7	2.3	3.0	1.8					7.8					13.0	12.0		
2	48.6	L2	N	0.6	1.6	2.6	2.4					7.2					13.0	12.0		
AVG				**0.9**	**1.7**	**3.4**	**1.7**					**6.2**					**11.7**			

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: Shannon Davidson Dates Cored: 8/4/19 to 8/20/19 Page: 1 of 3 Typical Section No.: 1

W.P.I. No.:		Name:	I-75/SR93/Alligator Alley	Lanes:	4
Fin. Proj. ID:	444008-1	From:	Broward County Line	Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To:	South/East of Toll Booth	Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0 Paved	Other:		Curb and Gutter (Y/N):	N

MAIN LINE												TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS			COMMENTS
Core No.	MP	LANE	W/P	FC5	SP1F	S	BIND						DEPTH	TYPE	CLASS	EXTENT	LR	STAB SUB	Concrete	
179	1.1	IL	N	-	1.7	-	-					1.7	-	-	-	-	12.0	-		IL
175	2.4	IL	N	-	1.6	-	-					1.6	-		-	-	12.0	-		IL
170	3.9	IL	N	-	1.1	-	-					1.1	-		-	-	12.0	-		IL
183	4.5	IL	N	-	1.9	-	-					1.9	-		-	-	12.0	-		IL
164	5.9	IL	N	-	1.6	-	-					1.6	-		-	-	12.0	-		IL
160	7.1	IL	N	-	1.6	-	-					1.6	0.3		II	Light	12.0	-		IL
157	8.2	IL	N	-	1.4	-	-					1.4	-		-	-	12.0	-		IL
152	9.8	IL	N	-	1.0	-	-					1.0	-		-	-	12.0	-		IL
149	10.8	IL	N	-	2.0	-	-					2.0	-		-	-	12.0	-		IL
146	11.6	IL	N	-	1.9	-	-					1.9	-		-	-	12.0	-		IL
142	12.8	IL	N	-	1.3	-	-					1.3	-		-	-	12.0	-		IL
139	13.8	IL	N	-	1.8	-	-					1.8	-		-	-	11.0	-		IL
135	15.1	IL	N	-	1.5	-	-					1.5	-		-	-	11.0	-		IL
133	15.7	IL	N	-	1.5	-	-					1.5	-		-	-	12.0	-		IL
129	16.8	IL	N	-	2.1	-	-					2.1	-		-	-	12.0	-		IL
121	18.8	IL	N	-	1.6	-	-					1.6	-		-	-	11.0	-		IL
114	20.5	IL	N	-	1.3	-	-					1.3	-		-	-	11.0	-		IL
109	22.0	IL	N	-	1.5	-	-					1.5	-		-	-	12.0	-		IL
103	23.1	IL	N	-	1.5	-	-					1.5	-		-	-	12.0	-		IL
99	24.1	IL	N	-	-	1.3	-					1.3	-		-	-	12.0	-		IL
95	25.4	IL	N	-	1.7	-	-					1.7	-		-	-	11.0	-		IL
91	26.3	IL	N	-	-	1.5	-					1.5	-		-	-	12.0	-		IL
85	27.9	IL	N	-	-	1.7	-					1.7	-		-	-	12.0	-		IL
74	29.6	IL	N	-	-	1.5	-					1.5	-		-	-	12.0	-		IL
72	30.3	IL	N	-	-	2.0	-					2.0	-		-	-	12.0	-		IL

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: Shannon Davidson Dates Cored: 8/4/19 to 8/20/19 Typical Section No.: 1

W.P.I. No.:		Name: I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID:	444008-1	From: Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:		To: South/East of Toll Booth		Inside:	1
County:	Collier	Beg MP: 0.000	End MP: 49.102 Lgth: 49.102	Outside:	1
Median Curbed (Y / N):	0 Paved	Other:		Curb and Gutter (Y/N):	N

MAIN LINE												TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS			COMMENTS
Core No.	MP	LANE	W/P	FC5	SP1F	S	BIND						DEPTH	TYPE	CLASS	EXTENT	LR	STAB SUB	Concrete	
53	34.0	IL	N	-	-	1.4	-					1.4	-		-	-	11.0	-		IL
48	35.3	IL	N	-	-	1.7	-					1.7	-		-	-	11.0	-		IL
44	36.3	IL	N	-	1.0	-	-					1.0	-		-	-	11.0	-		IL
38	37.9	IL	N	-	1.1	-	-					1.1	-		-	-	12.0	-		IL
33	39.3	IL	N	-	2.0	-	-					2.0	-		-	-	12.0	-		IL
28	40.6	IL	N	-	0.9	-	-					0.9	-		-	-	11.0	-		IL
22	42.1	IL	N	-	1.1	-	-					1.1	-		-	-	10.0	12.0		IL
18	43.2	IL	N	-	1.7	-	-					1.7	-		-	-	10.0	12.0		IL
14	44.4	IL	N	-	1.0	-	-					1.0	-		-	-	12.0	12.0		IL
8	46.6	IL	N	-	0.9	-	-					0.9	-		-	-	12.0	12.0		IL
4	47.9	IL	N	0.7	1.0	-	-					1.7	-		-	-	3.5	12.0		IL
180	0.8	OL	N	-	1.6	-	-					1.6	-		-	-	12.0	-		OL
176	2.1	OL	N	-	1.1	-	-					1.1	-		-	-	11.0	-		OL
174	2.7	OL	N	-	1.6	-	-					1.6	-		-	-	12.0	-		OL
168	4.5	OL	N	-	1.5	-	-					1.5	-		-	-	12.0	-		OL
165	5.5	OL	N	-	1.1	-	-					1.1	-		-	-	11.0	-		OL
161	6.8	OL	N	-	1.6	-	-					1.6	-		-	-	12.0	-		OL
159	7.4	OL	N	-	1.6	-	-					1.6	-		-	-	12.0	-		OL
154	9.2	OL	N	-	1.3	-	-					1.3	-		-	-	12.0	-		OL
147	11.3	OL	N	-	1.8	-	-					1.8	-		-	-	12.0	-		OL
138	14.1	OL	N	-	1.8	-	-					1.8	-		-	-	11.0	-		OL
136	14.7	OL	N	-	2.2	-	-					2.2	-		-	-	12.0	-		OL
127	17.3	OL	N	-	-	1.8	-					1.8	-		-	-	11.0	-		OL
120	19.2	OL	N	-	1.6	-	-					1.6	-		-	-	12.0	-		OL
115	20.1	OL	N	-	1.6	-	-					1.6	-		-	-	12.0	-		OL

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: Shannon Davidson Dates Cored: 8/4/19 to 8/20/19 Page: 3 of 3 Typical Section No.: 1

W.P.I. No.:	Name:	I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID: 444008-1	From:	Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:	To:	South/East of Toll Booth		Inside:	1
County: Collier	Beg MP: 0.000	End MP: 49.102	Lgth: 49.102	Outside:	1
Median Curbed (Y / N): 0 Paved	Other:			Curb and Gutter (Y/N):	N

MAIN LINE												TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS			COMMENTS
Core No.	MP	LANE	W/P	FC5	SP1F	S	BIND						DEPTH	TYPE	CLASS	EXTENT	LR	STAB SUB	Concrete	
110	21.8	OL	N	-	1.1	-	-					1.1	-		-	-	12.0	-		OL
106	22.6	OL	N	-	1.0	-	-					1.0	-		-	-	12.0	-		OL
101	23.7	OL	N	-	1.0	-	-					1.0	-		-	-	12.0	-		OL
97	24.8	OL	N	-	1.0	-	-					1.0	-		-	-	12.0	-		OL
93	25.9	OL	N	-	1.5	-	-					1.5	-		-	-	12.0	-		OL Long Gouge Approx. 1/4" Deep
89	26.9	OL	N	-	1.2	-	-					1.2	-		-	-	12.0	-		OL
83	28.6	OL	N	-	2.6	-	-					2.6	-		-	-	12.0	-		OL
70	30.9	OL	N	-	1.7	-	-					1.7	-		-	-	12.0	-		OL
64	32.1	OL	N	-	1.3	-	-					1.3	-		-	-	12.00	-		OL
61	32.6	OL	N	-	1.4	-	-					1.4	-		-	-	12.0	-		OL
58	33.1	OL	N	-	1.5	-	-					1.5	-		-	-	12.0	-		OL
50	34.7	OL	N	-	1.5	-	-					1.5	-		-	-	11.0	-		OL
46	35.7	OL	N	-	0.8	-	-					0.8	0.2		IB	Light	11.0	-		OL
40	37.3	OL	N	-	1.0	-	-					1.0	-		-	-	12.0	-		OL
36	38.3	OL	N	-	1.4	-	-					1.4	0.1		IB	Light	12.0	-		OL
31	39.9	OL	N	-	-	0.6	-					0.6	0.6		II	Light	12.0	-		OL
27	40.9	OL	N	-	1.1	-	-					1.1	-		-	-	12.0	-		OL
21	42.3	OL	N	-	1.0	-	-					1.0	-		-	-	13.0	12.0		OL
17	43.6	OL	N	-	1.1	-	-					1.1	-		-	-	12.0	12.0		OL
11	45.6	OL	N	-	1.0	-	-					1.0	-		-	-	7.0	12.0		OL
7	46.9	OL	N	-	1.1	-	-					1.1	-		-	-	13	12.0		OL
3	48.2	OL	N	-	1.2	-	-					1.2	-		-	-	13.0	12.0		OL
AVG				**0.7**	**1.4**	**1.5**						**1.4**	**0.3**				**11.6**			

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored by: Shannon Davidson Dates Cored: 8/4/19 to 8/20/19 Typical Section No.: 1

W.P.I. No.:	Name:	I-75/SR93/Alligator Alley		Lanes:	4
Fin. Proj. ID: 444008-1	From:	Broward County Line		Shoulder Type and Condition:	Paved
F.A. Proj. No.:	To:	South/East of Toll Booth		Inside:	1
County: Collier	Beg MP: 0.000	End MP: 49.102	Lgth: 49.102	Outside:	1
Median Curbed (Y / N): 0 Paved	Other:			Curb and Gutter (Y/N):	N

RAMPS												TOTAL ASPHALT THICKNESS	CRACK				SUB-SOILS			COMMENTS
Core No.	MP	LANE	W/P	FC5	SP1F	S	BIND						DEPTH	TYPE	CLASS	EXTENT	LR	STAB SUB	Concrete	
145	11.8	L1	N	0.9	1.4	3.0	-					5.3	-		-	-	12.0	-		Rest Area Exit
141	12.8	L1	Y	1.0	2.5	-	-					3.5	-		-	-	12.0	-		Rest Area Entrance
118	19.6	L1	N	1.5	1.7	2.6	-					5.8	-		-	-	12.0	-		Recreational Area Exit Ramp. Gore Area.
116	19.9	L1	Y	1.0	1.6	4.1	-					6.7	-		-	-	12.0	-		Recreational Area Entrance Ramp
82	28.9	L1	N	0.8	1.7	-	-					2.5	-		-	-	12.0	-		SB Entrance Ramp
80	29.0	L1	Y	1.0	1.5	-	-					2.5	-		-	-	12.0	-		SB Entrance Ramp
78	29.2	L1	Y	1.4	1.3	-	-					2.7	-		-	-	11.0	-		SB Exit Ramp to NB SR 29. Worming.
76	29.3	L1	Y	1.0	2.0	-	-					3.0	-		-	-	11.0	-		SB Exit Ramp to SR 29.
75	29.5	L1	N	1.3	-	2.3	-					3.6	-		-	-	11.0	-		SB Exit Ramp to SR 29. Performed in Gore Area
79	29.1	L2	Y	0.8	1.8	-	-					2.6	-		-	-	12.0	-		SB Entrance Ramp. Worming.
25	41.5	L2	N	-	2.7	-	-					2.7	-		-	-	11.0	-		Exit Ramp to Everglades Blvd S
AVG				**1.1**	**1.8**	**3.0**					**1.7**	**3.7**	**-**				**11.6**			

APPENDIX 4

Hand Auger Results

SUMMARY OF DYNAMIC CONE PENETROMETER (DCP) RESULTS
STATE ROAD 93 (I-75) from Broward County Line to Toll Booth
MP 0.000 - 49.102 (North/West - Right Bound ONLY)
COLLIER COUNTY, FLORIDA
FPID NO.: 444008-1

FDOT Designation / Core Number	Core Location				Sample Depth* (ft)	DCP Index** (in./blow)	CBR***	LBR****
	Mile Post	Lane	Wheel Path	Pvmnt Distress				
DCP @ MP 3.6 / 251	3.6	L2	Y	Depressions in wheel paths	0.0 - 0.5	0.038	308	385
					0.5 - 1.0	0.044	259	324
					1.0 - 1.5	0.038	308	385
					1.5 - 2.0	0.025	486	607
					2.0 - 2.5	0.081	130	162
					2.5 - 3.0	0.038	308	385
					3.0 - 3.5	0.038	308	385
					3.5 - 4.0	0.025	486	607
					4.0 - 4.5	0.025	486	607
					4.5 - 5.0	0.025	486	607
DCP @ MP 8.1 / 252	8.1	L2	Y	Moderate block Cracking, limerock pumping and patch in wheel paths	0.0 - 1.0	0.075	142	177
					1.0 - 2.0	0.063	174	218
					2.0 - 3.0	0.038	308	385
					3.0 - 4.0	0.075	142	177
					4.0 - 5.0	0.075	142	177
DCP @ MP 8.54 / 253	8.5	L2	Y	Severe block cracking with limerock pumping, rutting in wheel paths	0.0 - 1.0	0.063	174	218
					1.0 - 2.0	0.038	308	385
					2.0 - 3.0	0.038	308	385
					3.0 - 4.0	0.038	308	385
					4.0 - 5.0	0.038	308	385
DCP @ MP 11.1 / 254	11.1	L1	Y	Severe block cracking with limerock pumping, patch, rutting in right wheel path	0.0 - 1.0	0.031	378	473
					1.0 - 2.0	0.025	486	607
					2.0 - 3.0	0.050	223	279
					3.0 - 4.0	0.038	308	385
					4.0 - 5.0	--(1)	--(1)	--(1)
DCP @ MP 15.2 / 255	15.2	L2	Y	Severe block cracking with limerock pumping and patch in left wheel path	0.0 - 1.0	0.038	308	385
					1.0 - 2.0	0.025	486	607
					2.0 - 3.0	0.038	308	385
					3.0 - 4.0	0.025	486	607
					4.0 - 5.0	--(1)	--(1)	--(1)
DCP @ MP 21.6 / 256	21.6	L2	Y	Severe raveling and delamination in right wheel path with edge line cracking	0.0 - 1.0	0.063	174	218
					1.0 - 2.0	0.038	308	385
					2.0 - 3.0	0.038	308	385
					3.0 - 3.5	0.025	486	607
					3.5 - 5.0	--(1)	--(1)	--(1)

** Referenced from Bottom of the Base*

*** DCP Index calculated by dividing distance by 20, where 20 is set number of blows designated by Test Lab*

**** (From ASTM D6951)* CBR = $(292/(DCP*25.4)^{1.12})$

***** (From Advisory Circular by the U.S. Department of Transportation)* LBR*0.8=CBR

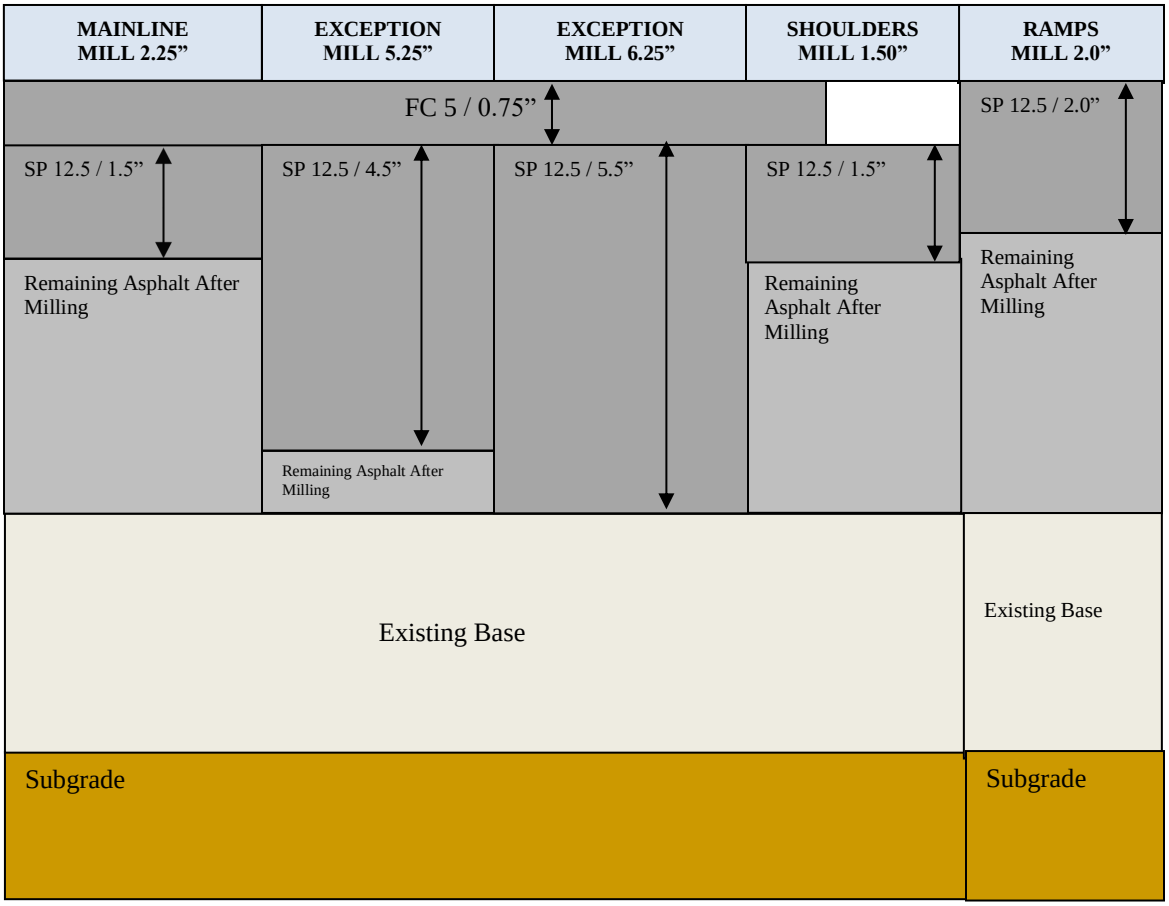
(1) Practical refusal due to subsurfce obstruction

APPENDIX 5

Illustration of Milling and Resurfacing Recommendation

Illustration of Milling and Resurfacing Recommendation

Design Sketch Not Drawn To Scale



Note:

- **Structural requirements were not calculated in this design.**
- **In the event that the depicted pavement design will not be adequate based on structural calculations, overbuild thickness should be adjusted to meet the required structural number and/or other constructability purposes. If modification to the milling depth will be necessary to meet the required structural number contact this office for a revised recommendation.**

APPENDIX 6

Pavement Survey Request

RON DESANTIS
GOVERNOR

Florida Department of Transportation
605 Suwannee Street
Tallahassee, FL 32399-0450

KEVIN J. THIBAULT, P.E.
SECRETARY

MEMORANDUM

Date: 05/03/2019
To: Marlene Hebert
From: Sean Pugh
Subject: Request for Asphalt Survey

FM No: 444008-1
County/Section: COLLIER/ 031750000
Description: I-75 (SR 93) FROM BROWARD COUNTY LINE TO TOLL BOOTH
Begin MP: 0.00 End MP: 49.102

BACKGROUND INFORMATION: Skid Hazard ☐ RRR ☑ Intersection ☐ Safety ☐

These attached items are for your information in obtaining the necessary asphalt data needed for our preparation of the pavement design package:

	YES	NO		YES	NO
Scope or Concept Report:	☑	☐	FWD:	☐	☑
Location Map:	☑	☐	ESAL's:	☑	☐
Proposed Typical Sections:	☐	☑	As Builts:	☑	☐
Old Pavement Typical:	☐	☑			

Please specify if the project has any realignment involved and/or locations of widening/reconstruction)

10' inside shoulder to be added between MP 29 and MP 30

Review of Project by Project Manager: _____

Typical Section: Urban ☐ Rural ☑ Spec Year: 2021 Friction Course Type: FC-5 ☐ FC-12.5 ☐ FC-9.5 ☐

Traffic Level: A ☐ B ☐ C ☐ D ☐ E ☐

Pavement Condition: Rutting ☐ Cracking ☐ Shoving ☐ Spalling ☐

Cracking: Longitudinal ☐ Horizontal ☐ Alligator ☐

Structures: Bridges ☑ Manholes ☐ Tractor Crossings ☐ Cross Drains ☑

Areas of Concern:

Is this a "Goes With" project? No If so, Lead Project Number: _____

Charge to Financial Project ID: 444008-1-31-01 for all preliminary engineering work performed on this project.

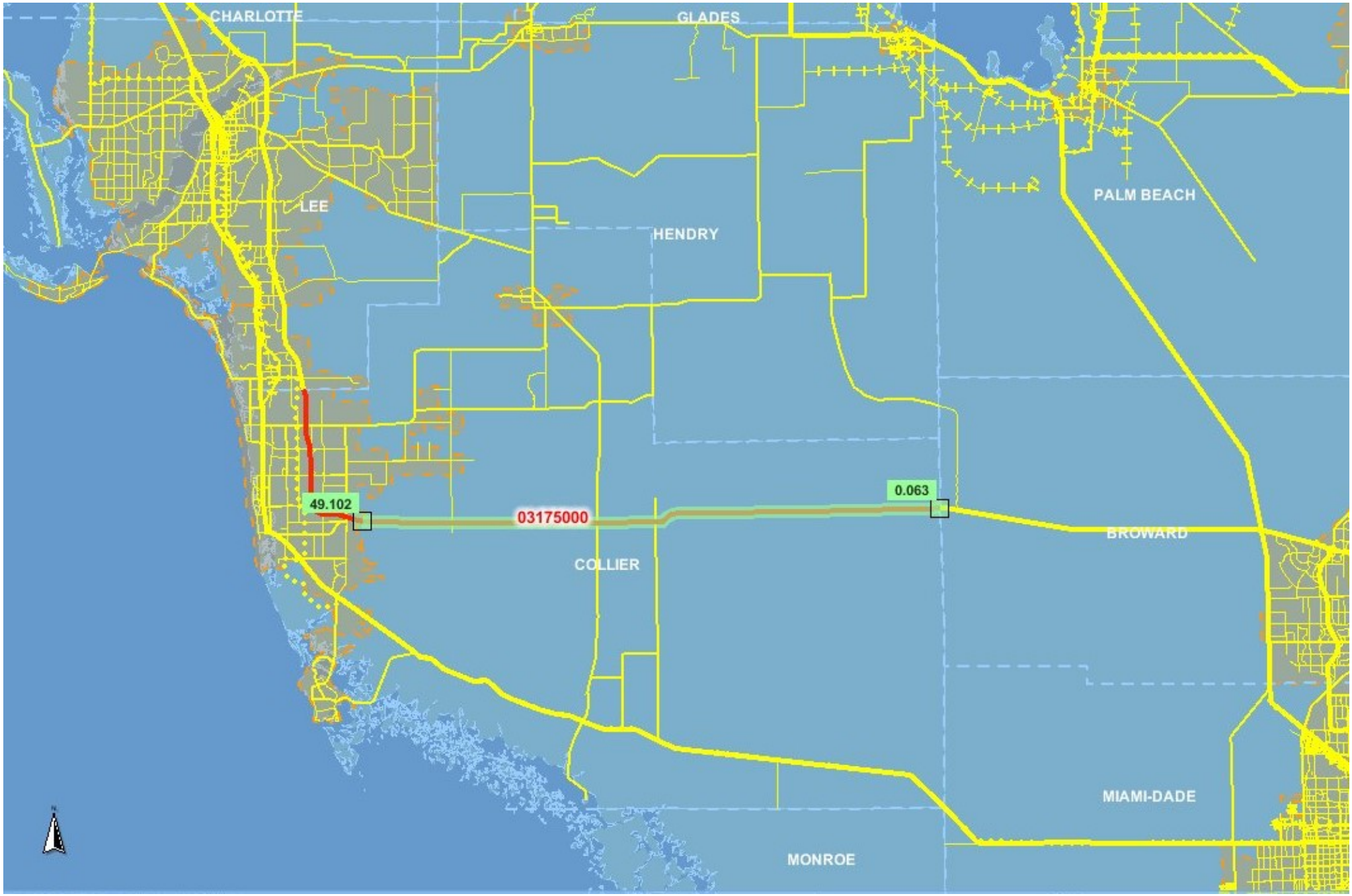
To keep our project on schedule, we are requesting a return date of: 8/30/2019

If you have any questions, please contact me at: 239-225-1925

Email to Pavement Evaluation Group

APPENDIX 7

Project Location Map


CHARLOTTE
GLADES
LEE
HENDRY
PALM BEACH
49.102
03175000
0.063
COLLIER
BROWARD
MIAMI-DADE
MONROE

Appendix D

Pavement Calculations

FLORIDA DEPARTMENT OF TRANSPORTATION
PAVEMENT CALCULATIONS

FPN# 444008-1-52-01 **Project Name** SR 93 (I-75)

NB Mainline | Mill & Resurface | **MP 0.063 to MP 49.282**

Core #	MP	Lane	FC-5	TYPE S	Total	LR	STAB
2	0.0204	R1	1.1	4.1	5.2	11.0	12.0
3	0.0204	R2	0.7	4.9	5.6	14.5	12.0
6	1.216	R1	0.9	3.9	4.8	13.0	12.0
7	1.216	R2	0.9	5.0	5.9	12.5	12.0
10	2.203	R1	0.7	4.3	5.0	11.3	12.0
11	2.203	R2	0.9	5.2	6.1	13.0	12.0
238	2.473	R2	1.0	5.3	6.3	10.5	12.0
14	3.205	R1	1.1	4.4	5.5	11.0	12.0
15	3.205	R2	1.0	4.7	5.7	14.0	12.0
251	3.600	R2	0.8	5.4	6.2	11.5	12.0
18	4.197	R1	1.0	5.0	6.0	12.0	12.0
19	4.197	R2	0.7	4.6	5.3	13.5	12.0
23	5.196	R2	1.1	4.8	5.9	13.5	12.0
22	5.196	R1	1.0	5.5	6.5	12.0	12.0
26	6.193	R1	0.9	4.1	5.0	10.5	12.0
27	6.193	R2	0.9	4.9	5.8	12.0	12.0
240	6.808	R2	0.7	3.5	4.2	12.0	12.0
30	7.183	R1	0.8	4.1	4.9	8.0	12.0
31	7.183	R2	0.6	4.6	5.2	11.5	12.0
35	7.189	R2	1.0	5.1	6.1	13.0	12.0
34	7.189	R1	1.0	4.9	5.9	10.5	12.0
241	8.112	R2	1.2	4.3	5.5	10.0	12.0
242	8.475	R2	0.9	3.5	4.4	10.5	12.0
253	8.540	R2	0.8	4.3	5.1	9.0	12.0
38	9.188	R1	1.5	4.0	5.5	11.5	12.0
39	9.188	R2	1.0	4.5	5.5	13.0	12.0
42	10.178	R1	1.0	4.5	5.5	10.0	12.0
43	10.178	R2	1.2	4.1	5.3	12.0	12.0
254	11.100	R1	1.4	4.8	6.2	9.0	12.0
244	11.163	R1	1.0	4.8	5.8	11.3	12.0
46	11.183	R1	1.5	4.8	6.3	9.0	12.0
47	11.183	R2	0.9	5.2	6.1	11.5	12.0
51	12.182	R2	0.8	5.4	6.2	10.5	12.0
50	12.182	R1	1.1	3.9	5.0	10.0	12.0
56	13.177	R1	1.0	5.1	6.1	9.3	12.0
57	13.177	R2	0.9	5.1	6.0	10.5	12.0
245	13.544	R2	0.9	3.9	4.8	11.0	12.0
61	14.172	R1	1.1	4.1	5.2	8.0	12.0
62	14.172	R2	0.9	4.1	5.0	11.3	12.0
66	15.171	R1	1.0	4.9	5.9	11.0	12.0
67	15.171	R2	0.9	4.5	5.4	11.0	12.0
246	15.193	R2	1.0	4.1	5.1	13.0	12.0
255	15.200	R2	0.9	4.2	5.1	12.5	12.0
70	15.980	R2	1.0	4.1	5.1	10.0	12.0
72	16.163	R1	0.9	5.1	6.0	10.5	12.0
73	16.163	R2	0.9	5.9	6.8	11.0	12.0
77	17.161	R1	1.5	4.9	6.4	14.0	12.0
78	17.161	R2	0.9	5.0	5.9	11.0	12.0
81	18.160	R1	1.0	4.3	5.3	9.0	12.0
82	18.160	R2	0.8	4.4	5.2	9.5	12.0
85	20.271	R1	1.2	4.2	5.4	9.0	12.0

86	20.271	R2	1.0	4.0	**5.0**	11.5	12.0
91	21.182	R2	1.0	4.2	**5.2**	9.0	12.0
256	21.600	R2	1.0	4.9	**5.9**	9.5	12.0
94	22.167	R1	1.1	4.6	**5.7**	7.5	12.0
95	22.167	R2	1.0	4.1	**5.1**	10.0	12.0
101	24.171	R1	0.9	4.1	**5.0**	10.5	12.0
102	24.171	R2	1.0	4.0	**5.0**	10.5	12.0
106	25.160	R1	0.8	5.0	**5.8**	12.0	12.0
107	25.160	R2	0.8	4.5	**5.3**	10.3	12.0
110	26.144	R1	1.0	5.1	**6.1**	12.0	12.0
111	26.144	R2	0.8	5.7	**6.5**	10.0	12.0
116	27.164	R2	0.9	5.1	**6.0**	12.0	12.0
115	27.164	R1	0.8	5.9	**6.7**	12.0	12.00
119	28.153	R1	1.0	4.8	**5.8**	9.5	12.0
120	28.153	R2	1.0	4.7	**5.7**	11.0	12.0
123	29.131	R1	1.1	4.2	**5.3**	8.0	12.0
124	29.131	R2	1.0	3.9	**4.9**	11.5	12.0
127	30.133	R1	0.7	6.4	**7.1**	10.5	12.0
128	30.133	R2	1.0	7.1	**8.1**	11.0	12.0
248	30.878	R2	0.7	4.8	**5.5**	10.5	12.0
132	31.139	R1	0.9	4.6	**5.5**	12.0	12.0
133	31.139	R2	0.9	4.6	**5.5**	11.0	12.0
249	31.713	R1	0.6	4.6	**5.2**	11.0	12.0
137	32.138	R1	1.0	4.9	**5.9**	9.8	12.0
138	32.138	R2	1.0	4.5	**5.5**	13.3	12.0
144	33.140	R1	1.0	4.1	**5.1**	11.0	12.0
145	33.140	R2	0.9	4.3	**5.2**	10.5	12.0
150	34.130	R1	1.0	4.5	**5.5**	9.5	12.0
151	34.130	R2	0.9	4.2	**5.1**	12.5	12.0
155	35.130	R1	1.0	5.0	**6.0**	10.5	12.0
156	35.130	R2	0.9	4.6	**5.5**	10.8	12.0
160	36.132	R1	0.9	4.5	**5.4**	11.5	12.0
161	36.132	R2	0.9	4.4	**5.3**	12.0	12.0
165	37.130	R1	0.9	3.8	**4.7**	9.3	12.0
166	37.130	R2	0.9	4.2	**5.1**	12.0	12.0
169	38.124	R1	0.8	4.6	**5.4**	11.5	12.0
170	38.124	R2	0.9	5.0	**5.9**	11.5	12.0
174	39.128	R1	1.0	4.0	**5.0**	10.5	12.0
175	39.128	R2	1.0	4.8	**5.8**	10.0	12.0
178	40.119	R1	0.9	4.4	**5.3**	9.3	12.0
179	40.119	R2	0.7	5.6	**6.3**	14.0	12.0
183	41.119	R1	1.0	4.9	**5.9**	13.0	12.0
184	41.119	R2	1.0	5.0	**6.0**	11.5	12.0
250	42.111	R2	1.0	5.0	**6.0**	10.0	12.0
188	42.120	R1	0.9	4.4	**5.3**	12.0	12.0
189	42.120	R2	1.1	4.5	**5.6**	10.0	12.0
193	43.123	R1	1.1	5.0	**6.1**	9.5	12.0
194	43.123	R2	1.2	4.4	**5.6**	10.0	12.00
197	44.119	R1	1.0	4.6	**5.6**	10.5	12.0
198	44.119	R2	0.9	4.9	**5.8**	10.5	12.0
201	45.115	R1	0.9	4.7	**5.6**	11.3	12.0
206	46.114	R2	0.9	4.6	**5.5**	10.5	12.0
205	46.114	R1	1.0	4.0	**5.0**	9.5	12.00
209	47.122	R1	1.0	4.7	**5.7**	10.5	12.0
210	47.122	R2	1.3	4.7	**6.0**	11.5	12.0
213	48.127	R1	1.0	4.8	**5.8**	8.5	12.0
214	48.127	R2	0.8	4.4	**5.2**	8.5	12.0

217	49.120	R1	1.1	3.5	**4.6**	8.5	12.0
218	49.120	R2	0.5	3.7	**4.2**	9.0	12.0
243	11.088	R2	0.0	3.0	**3.0**	12.0	12.0
Summary Averages:			**0.95**	**4.61**	**5.55**	**10.89**	**12.00**
69	Removed from data - No FC5 - F9.5 - Patch						
239	Removed from data - No FC5, F9.5 - Patch						
252	Removed from data - No FC5, F9.5 - Patch						
90	Removed from data - No FC5, F9.5						
247	Removed from data - No FC5, F9.5						
104	Removed from data - No FC5 or S						
202	Removed from data - NO FC5, 5" LR						

Note: Shading represents 1 standard deviation above(green) or below(red) the average

NB R1 and R2 0.063 to 49.282

Material		Thickness	Coeff	SN
FC-5		0.95	0.00	0.00
TYPE S		4.61	0.25	1.15
LR		10.89	0.18	1.96
STAB		12.00	0.08	0.96
			Existing SN =	4.07

For 6.25" Recommendation:
NB R2 8.220 to 8.697

Material		Thickness	Coeff	SN
FC-5		1.20	0.00	0.00
TYPE S		4.30	0.25	1.08
LR		10.00	0.18	1.80
STAB		12.00	0.08	0.96
			Existing SN =	3.84

For 5.25" Recommendation:
NB R2 8.117 to 8.220, R2 13.065 to 14.000, R2 14.637 to 15.970

Material		Thickness	Coeff	SN
FC-5		0.90	0.00	0.00
TYPE S		4.00	0.25	1.00
LR		11.20	0.18	2.02
STAB		12.00	0.08	0.96
			Existing SN =	3.98

Table	A.10	B
Interpolation Formula		
	$ESAL_D$	SN
Low	15,000,000	3.72
High	20,000,000	3.90
Actual	17,157,000	3.80

M_r =	32,000	psi	
Design ESAL =	17,157,000		
Design Traffic =	37,399	(20 year)	
% R =	99		

SN Required:	=>	3.80

FLORIDA DEPARTMENT OF TRANSPORTATION
PAVEMENT CALCULATIONS

FPN# 444008-1-52-01 **Project Name** SR 93 (I-75)

SB Mainline Mill & Resurface **MP 0.063 to MP 49.282**

Core #	MP	Lane	FC-5	SP1F	TYPE S	BINDER	Total	LR	STAB
182	0.1	L1	0.8	1.5	3.1	0.0	5.4	12.0	12.0
181	0.4	L1	0.7	1.5	3.5	1.6	7.3	12.0	12.0
178	1.4	L2	1.0	1.3	3.4	1.6	7.3	12.0	12.0
177	1.8	L1	1.2	1.4	1.3	4.0	7.9	12.0	12.0
173	3.2	L1	1.0	1.7	3.5	1.9	8.1	12.0	12.0
172	3.5	L2	1.1	1.4	3.6	0.6	6.7	12.0	12.0
169	4.2	L2	0.9	2.3	3.7	1.0	7.9	12.0	12.0
167	4.9	L1	1.0	1.3	5.3	0.0	7.6	12.0	12.0
166	5.2	L2	0.9	1.5	1.5	3.4	7.3	11.0	12.0
163	6.2	L2	0.9	1.4	2.8	1.9	7.0	12.0	12.0
162	6.5	L1	0.9	1.7	4.5	1.3	8.4	12.0	12.0
158	7.8	L2	0.9	1.2	2.6	2.4	7.1	11.0	12.0
156	8.5	L2	0.9	1.6	3.3	2.4	8.2	12.0	12.0
155	8.8	L1	0.9	1.6	1.5	1.9	5.9	12.0	12.0
153	9.5	L2	0.9	1.4	3.3	1.4	7.0	12.0	12.0
151	10.1	L1	1.0	1.4	4.9	1.7	9.0	12.0	12.0
150	10.5	L2	0.9	1.4	4.2	1.8	8.3	12.0	12.0
148	11.1	L1	0.9	1.3	4.2	2.2	8.6	12.0	12.0
144	12.0	L2	1.1	1.3	3.6	0.0	6.0	12.0	12.0
143	12.4	L1	1.1	1.3	3.3	0.0	5.7	12.0	12.0
140	13.4	L2	0.9	1.5	3.9	2.1	8.4	11.0	12.0
137	14.4	L1	1.1	1.6	4.0	1.6	8.3	11.0	12.0
134	15.4	L2	0.7	2.4	3.0	2.1	8.2	12.0	12.0
131	16.1	L1	0.9	1.6	3.0	1.1	6.6	12.0	12.0
130	16.4	L2	0.8	1.5	3.2	1.2	6.7	11.0	12.0
126	17.6	L2	0.9	1.2	2.6	1.6	6.3	12.0	12.0
125	17.8	L1	0.8	1.5	3.6	0.0	5.9	12.0	12.0
124	17.9	L2	1.1	2.0	2.5	0.0	5.6	12.0	12.0
123	18.2	L1	0.9	2.3	4.0	1.2	8.4	12.0	12.0
122	18.5	L2	0.9	2.2	2.6	1.4	7.1	12.0	12.0
119	19.5	L1	0.8	1.5	3.8	0.7	6.8	12.0	12.0
117	19.8	L2	0.8	1.4	3.0	1.7	6.9	12.0	12.0
113	20.8	L1	1.1	1.4	5.0	0.0	7.5	12.0	12.0
111	21.4	L2	0.8	1.5	3.6	1.7	7.6	11.0	12.0
107	22.4	L1	0.8	1.3	3.7	0.0	5.8	12.0	12.0
104	22.9	L2	1.0	1.2	2.9	0.0	5.1	11.0	12.0
102	23.5	L1	1.0	1.2	4.1	0.0	6.3	12.0	12.0
100	23.9	L2	0.9	1.2	3.1	0.0	5.2	12.0	12.0
98	24.5	L1	0.8	0.0	4.3	0.0	5.1	11.0	12.0
94	25.6	L2	0.8	1.7	3.9	1.2	7.6	12.0	12.0
90	26.6	L1	1.0	1.8	3.4	1.3	7.5	11.0	12.0
87	27.2	L2	1.0	1.3	3.4	0.0	5.7	12.0	12.0
86	27.6	L1	1.0	1.6	3.8	1.5	7.9	12.0	12.0
84	28.2	L1	1.0	1.3	3.8	1.2	7.3	12.0	12.0
81	28.8	L2	1.1	1.5	4.2	1.0	7.8	11.0	12.0
77	29.3	L1	0.7	1.2	3.3	2.1	7.3	11.0	12.0
73	29.9	L2	0.8	1.5	3.5	1.8	7.6	12.0	12.0
71	30.6	L1	0.9	1.2	4.1	1.4	7.6	12.0	12.0
69	31.3	L2	0.7	1.5	3.9	0.0	6.1	11.0	12.0
67	31.5	L1	0.8	1.3	5.2	0.0	7.3	12.0	12.0
66	31.8	L1	0.9	2.2	2.4	0.0	5.5	12.0	12.0
63	32.3	L2	0.7	1.5	3.0	0.0	5.2	12.0	12.0
60	32.8	L1	1.1	0.0	4.7	0.0	5.8	12.0	12.0
57	33.3	L2	0.8	1.4	2.9	0.0	5.1	12.0	12.0
55	33.7	L1	0.6	1.2	2.8	0.0	4.6	12.0	12.0
52	34.3	L2	0.8	1.4	4.8	0.0	7.0	11.0	12.0
49	35.0	L1	0.9	1.5	3.3	1.6	7.3	11.0	12.0
45	36.0	L2	0.8	2.1	3.0	1.6	7.5	11.0	12.0

43	36.6	L2	0.9	2.3	3.3	0.0	**6.5**	12.0	12.0
41	37.0	L1	1.0	1.5	4.5	0.0	**7.0**	12.0	12.0
39	37.6	L2	0.8	2.0	3.0	1.4	**7.2**	12.0	12.0
35	38.6	L2	0.9	1.5	3.5	1.6	**7.5**	12.0	12.0
34	38.9	L1	0.9	1.5	3.8	1.2	**7.4**	12.0	12.0
32	39.6	L2	0.8	1.4	3.3	1.5	**7.0**	12.0	12.0
30	40.1	L2	0.8	1.8	3.0	0.0	**5.6**	12.0	12.0
29	40.3	L1	1.0	1.6	3.3	0.0	**5.9**	12.0	12.0
26	41.3	L2	0.7	1.4	4.0	1.8	**7.9**	11.0	12.0
24	41.6	L1	0.9	2.1	3.3	1.9	**8.2**	11.0	12.0
23	41.9	L2	0.8	2.0	3.0	2.2	**8.0**	12.0	12.0
20	42.6	L1	0.9	2.1	3.0	1.9	**7.9**	12.0	12.0
19	42.9	L2	0.8	2.5	4.2	0.0	**7.5**	12.0	12.0
16	43.9	L2	0.9	1.9	2.6	2.0	**7.4**	12.0	12.0
15	44.1	L1	0.9	2.4	2.7	1.8	**7.8**	11.0	12.0
13	44.9	L2	1.0	1.8	2.8	2.1	**7.7**	10.0	12.0
12	45.3	L1	0.7	2.0	3.3	1.9	**7.9**	12.0	12.0
10	46.0	L2	1.1	2.2	2.6	1.6	**7.5**	12.0	12.0
9	46.3	L1	1.0	1.8	2.9	1.3	**7.0**	12.0	12.0
6	47.2	L2	0.7	2.3	3.0	1.8	**7.8**	13.0	12.0
5	47.6	L1	0.8	2.1	3.1	1.4	**7.4**	12.0	12.0
2	48.6	L2	0.6	1.6	2.6	2.4	**7.2**	13.0	12.0
Summary Averages:			**0.89**	**1.59**	**3.42**	**1.15**	**7.04**	**11.78**	**12.00**
105	Removed from data - No LR, Conc Base								
1	Removed from data - 3.5" LR								

Note: Shading represents 1 standard deviation above(green) or below(red) the average

SB Mainline 0.063 to 49.282

Material		Thickness	Coeff	SN
FC-5		0.89	0.00	0.00
SP1F		1.59	0.25	0.40
TYPE S		3.42	0.25	0.86
BINDER		1.15	0.20	0.23
LR		11.78	0.18	2.12
STAB		12.00	0.08	0.96
			Existing SN =	4.57

Table	A.10	B
Interpolation Formula		
	$ESAL_D$	SN
Low	15,000,000	3.72
High	20,000,000	3.90
Actual	17,157,000	3.80

M_r =	32,000	psi	
Design ESAL =	17,157,000		
Design Traffic =	37,399	(20 year)	
% R =	99		

SN Required:	=>	3.80

NB Outside Shoulder Mill & Resurface **MP 0.063 to MP 24.368 and MP 35.629 MP 49.282**

Core #	MP	Lane	TYPE S	TYPE SP1F	Total	LR	STAB
4	0.020	OR		1.1	1.1	13.25	12.00
12	2.203	OR		1.2	1.2	10.00	12.00
16	3.205	OR		1.3	1.3	14.00	12.00
20	4.197	OR		1.1	1.1	10.00	12.00
24	5.196	OR		1.1	1.1	17.00	12.00
32	7.183	OR		0.8	0.8	14.00	12.00
36	7.189	OR		1.3	1.3	11.00	12.00
40	9.188	OR		1.0	1.0	9.00	12.00
44	10.178	OR		1.2	1.2	13.00	12.00
48	11.183	OR		1.1	1.1	10.00	12.00
52	12.182	OR		1.2	1.2	10.50	12.00
58	13.177	OR		1.5	1.5	7.00	12.00
63	14.172	OR		1.3	1.3	10.00	12.00
68	15.171	OR		1.3	1.3	14.00	12.00
74	16.163	OR		1.2	1.2	8.50	12.00
79	17.161	OR		1.1	1.1	11.00	12.00
83	18.160	OR		1.4	1.4	6.50	12.00
87	20.271	OR		1.3	1.3	11.00	12.00
92	21.182	OR		0.9	0.9	10.50	12.00
96	22.167	OR		1.5	1.5	9.50	12.00
103	24.171	OR		1.1	1.1	11.00	12.00
162	36.132	OR		1.2	1.2	13.50	12.00
167	37.130	OR		0.8	0.8	11.00	12.00
171	38.124	OR	0.8		0.8	11.00	12.00
176	39.128	OR	1.1		1.1	12.00	12.00
180	40.119	OR	0.9		0.9	12.00	12.00
185	41.119	OR	0.8		0.8	13.50	12.00
190	42.120	OR	0.8		0.8	10.00	12.00
195	43.123	OR	0.9		0.9	8.25	12.00
199	44.119	OR	1.1		1.1	9.50	12.00
207	46.114	OR	1.0		1.0	14.00	12.00
211	47.122	OR	1.0		1.0	12.00	12.00
215	48.127	OR	0.9		0.9	12.00	12.00
219	49.120	OR		1.5	1.5	11.00	12.00
Summary Averages:			**1.11**		**1.11**	**11.19**	**12.00**

8	Removed from data - 3.7" S
28	Removed from data - 1.25" LR
108	Removed from data - Outside of proposed resurfacing limits
112	Removed from data - Outside of proposed resurfacing limits
117	Removed from data - Outside of proposed resurfacing limits
121	Removed from data - Outside of proposed resurfacing limits
125	Removed from data - Outside of proposed resurfacing limits
129	Removed from data - Outside of proposed resurfacing limits
134	Removed from data - Outside of proposed resurfacing limits
139	Removed from data - Outside of proposed resurfacing limits
140	Removed from data - Outside of proposed resurfacing limits
141	Removed from data - Outside of proposed resurfacing limits
146	Removed from data - Outside of proposed resurfacing limits
148	Removed from data - Bridge Deck
152	Removed from data - Outside of proposed resurfacing limits
157	Removed from data - Outside of proposed resurfacing limits
203	Removed from data - FC5 and 4.7" S

Note: Shading represents 1 standard deviation above(green) or below(red) the average

NB Outside Shoulder 0.063 to 24.368 and 35.629 to 49.282

Material		Thickness	Coeff	SN
TYPE S/SP1F		1.11	0.25	0.28
LR		11.19	0.18	2.01
STAB		12.00	0.08	0.96
			Existing SN =	3.25

Table	A.10	B
Interpolation Formula		
	$ESAL_D$	SN
Low	500,000	2.12
High	600,000	2.18
Actual	514,710	2.13

M_r =	32,000	psi
Design ESAL =	514,710	
Design Traffic =	37,399	(20 year)
% R =	99	

SN Required:	=>	2.13

SB Outside Shoulder Mill & Resurface **MP 0.063 to MP 24.368 and MP 35.629 MP 49.282**

Core #	MP	Lane	SP1F	TYPE S	Total	LR	STAB
180	0.8	OL	1.60		**1.60**	12.0	12.00
176	2.1	OL	1.10		**1.10**	11.0	12.00
174	2.7	OL	1.60		**1.60**	12.0	12.00
168	4.5	OL	1.50		**1.50**	12.0	12.00
165	5.5	OL	1.10		**1.10**	11.0	12.00
161	6.8	OL	1.60		**1.60**	12.0	12.00
159	7.4	OL	1.60		**1.60**	12.0	12.00
154	9.2	OL	1.30		**1.30**	12.0	12.00
147	11.3	OL	1.80		**1.80**	12.0	12.00
138	14.1	OL	1.80		**1.80**	11.0	12.00
136	14.7	OL	2.20		**2.20**	12.0	12.00
127	17.3	OL		1.80	**1.80**	11.0	12.00
120	19.2	OL	1.60		**1.60**	12.0	12.00
115	20.1	OL	1.60		**1.60**	12.0	12.00
110	21.8	OL	1.10		**1.10**	12.0	12.00
106	22.6	OL	1.00		**1.00**	12.0	12.00
101	23.7	OL	1.00		**1.00**	12.0	12.00
46	35.7	OL	0.80		**0.80**	11.0	12.00
40	37.3	OL	1.00		**1.00**	12.0	12.00
36	38.3	OL	1.40		**1.40**	12.0	12.00
31	39.9	OL		0.60	**0.60**	12.0	12.00
27	40.9	OL	1.10		**1.10**	12.0	12.00
21	42.3	OL	1.00		**1.00**	13.0	12.00
17	43.6	OL	1.10		**1.10**	12.0	12.00
11	45.6	OL	1.00		**1.00**	7.0	12.00
7	46.9	OL	1.10		**1.10**	13.0	12.00
3	48.2	OL	1.20		**1.20**	13.0	12.00
Summary Averages:			**1.32**		**1.32**	**11.74**	**12.00**
97	Removed from data - Outside of proposed resurfacing limits						
93	Removed from data - Outside of proposed resurfacing limits						
89	Removed from data - Outside of proposed resurfacing limits						
83	Removed from data - Outside of proposed resurfacing limits						
70	Removed from data - Outside of proposed resurfacing limits						
64	Removed from data - Outside of proposed resurfacing limits						
61	Removed from data - Outside of proposed resurfacing limits						
58	Removed from data - Outside of proposed resurfacing limits						
50	Removed from data - Outside of proposed resurfacing limits						

Note: Shading represents 1 standard deviation above(green) or below(red) the average

SB Outside Shoulder 0.063 to 24.368 and 35.629 to 49.282

Material		Thickness	Coeff	SN
SP1F/TYPE S		1.32	0.25	0.33
LR		11.74	0.18	2.11
STAB		12.00	0.08	0.96
			Existing SN =	3.40

Table	A.10	B
Interpolation Formula		
	$ESAL_D$	SN
Low	500,000	2.12
High	600,000	2.18
Actual	514,710	2.13

M_r =	32,000	psi	
Design ESAL =	514,710		
Design Traffic =	37,399	(20 year)	
% R =	99		

SN Required:	=>	2.13

NB Inside Shoulder | Mill & Resurface | **MP 0.063 to MP 49.282**

Core #	MP	Lane	TYPE S	TYPE SP1F	Total	LR	STAB
1	0.0204	IR		1.5	**1.5**	7.5	12.00
9	2.203	IR	1.1		**1.1**	10.0	12.00
13	3.205	IR	1.1		**1.1**	12.0	12.00
17	4.197	IR	1.0		**1.0**	12.5	12.00
21	5.196	IR	2.3		**2.3**	12.5	12.00
25	6.193	IR		1.4	**1.4**	10.0	12.00
29	7.183	IR	1.5		**1.5**	6.5	12.00
33	7.189	IR	1.3		**1.3**	9.0	12.00
37	9.188	IR		1.1	**1.1**	6.3	12.00
41	10.178	IR	0.9		**0.9**	8.5	12.00
45	11.183	IR	1.0		**1.0**	8.5	12.00
49	12.182	IR	0.8		**0.8**	12.0	12.00
55	13.177	IR		0.9	**0.9**	9.3	12.00
60	14.172	IR	1.6		**1.6**	8.0	12.00
65	15.171	IR	1.3		**1.3**	8.5	12.00
71	16.163	IR	1.2		**1.2**	10.0	12.00
76	17.161	IR	1.4		**1.4**	11.5	12.00
80	18.160	IR		1.2	**1.2**	8.0	12.00
84	20.271	IR	1.2		**1.2**	8.0	12.00
89	21.182	IR	1.4		**1.4**	10.5	12.00
93	22.167	IR	1.2		**1.2**	7.0	12.00
100	24.171	IR	1.0		**1.0**	10.0	12.00
105	25.160	IR	2.0		**2.0**	12.5	12.00
109	26.144	IR	1.5		**1.5**	12.5	12.00
114	27.164	IR	2.0		**2.0**	12.0	12.00
118	28.153	IR	1.7		**1.7**	11.0	12.00
122	29.131	IR	1.5		**1.5**	11.0	12.00
126	30.133	IR	2.1		**2.1**	10.5	12.00
131	31.139	IR	1.7		**1.7**	11.3	12.00
136	32.138	IR	1.5		**1.5**	11.5	12.00
143	33.140	IR	1.5		**1.5**	11.1	12.00
149	34.130	IR	1.4		**1.4**	11.0	12.00
154	35.130	IR	1.6		**1.6**	11.5	12.00
159	36.132	IR	1.2		**1.2**	13.0	12.00
164	37.130	IR	1.0		**1.0**	9.3	12.00
173	39.128	IR	1.6		**1.6**	11.0	12.00
177	40.119	IR	1.0		**1.0**	9.5	12.00
182	41.119	IR	1.2		**1.2**	12.0	12.00
187	42.120	IR	1.1		**1.1**	11.5	12.00
192	43.123	IR	0.8		**0.8**	13.0	12.00
196	44.119	IR	1.3		**1.3**	11.5	12.00
200	45.115	IR	1.3		**1.3**	10.0	12.00
204	46.114	IR	0.9		**0.9**	10.0	12.00
208	47.122	IR	1.5		**1.5**	11.5	12.00
212	48.127	IR	1.2		**1.2**	10.5	12.00
216	49.120	IR		2.7	**2.7**	10.5	12.00
Summary Averages:			**1.36**		**1.36**	**10.33**	**12.00**
5	Removed from data - NO LR						
168	Removed from data - SP2F						

Note: Shading represents 1 standard deviation above(green) or below(red) the average

NB Inside Shoulder 0.063 to 49.282

Material		Thickness	Coeff	SN
TYPE S/SP1F		1.36	0.25	0.34
LR		10.33	0.18	1.86
STAB		12.00	0.08	0.96
			Existing SN =	3.16

Table	A.10	B
Interpolation Formula		
	$ESAL_D$	SN
Low	500,000	2.12
High	600,000	2.18
Actual	514,710	2.13

M_r =	32,000	psi
Design ESAL =	514,710	
Design Traffic =	37,399	(20 year)
% R =	99	

SN Required: => **2.13**

SB Inside Shoulder | Mill & Resurface | **MP 0.063 to MP 49.282**

Core #	MP	Lane	SP1F	TYPE S	Total	LR	STAB
179	1.1	IL	1.70		**1.70**	12.0	12.00
175	2.4	IL	1.60		**1.60**	12.0	12.00
170	3.9	IL	1.10		**1.10**	12.0	12.00
183	4.5	IL	1.90		**1.90**	12.0	12.00
164	5.9	IL	1.60		**1.60**	12.0	12.00
160	7.1	IL	1.60		**1.60**	12.0	12.00
157	8.2	IL	1.40		**1.40**	12.0	12.00
152	9.8	IL	1.00		**1.00**	12.0	12.00
149	10.8	IL	2.00		**2.00**	12.0	12.00
146	11.6	IL	1.90		**1.90**	12.0	12.00
142	12.8	IL	1.30		**1.30**	12.0	12.00
139	13.8	IL	1.80		**1.80**	11.0	12.00
135	15.1	IL	1.50		**1.50**	11.0	12.00
133	15.7	IL	1.50		**1.50**	12.0	12.00
129	16.8	IL	2.10		**2.10**	12.0	12.00
121	18.8	IL	1.60		**1.60**	11.0	12.00
114	20.5	IL	1.30		**1.30**	11.0	12.00
109	22.0	IL	1.50		**1.50**	12.0	12.00
103	23.1	IL	1.50		**1.50**	12.0	12.00
99	24.1	IL		1.30	**1.30**	12.0	12.00
95	25.4	IL	1.70		**1.70**	11.0	12.00
91	26.3	IL		1.50	**1.50**	12.0	12.00
85	27.9	IL		1.70	**1.70**	12.0	12.00
74	29.6	IL		1.50	**1.50**	12.0	12.00
72	30.3	IL		2.00	**2.00**	12.0	12.00
53	34.0	IL		1.40	**1.40**	11.0	12.00
48	35.3	IL		1.70	**1.70**	11.0	12.00
44	36.3	IL	1.00		**1.00**	11.0	12.00
38	37.9	IL	1.10		**1.10**	12.0	12.00
33	39.3	IL	2.00		**2.00**	12.0	12.00
28	40.6	IL	0.90		**0.90**	11.0	12.00
22	42.1	IL	1.10		**1.10**	10.0	12.00
18	43.2	IL	1.70		**1.70**	10.0	12.00
14	44.4	IL	1.00		**1.00**	12.0	12.00
8	46.6	IL	0.90		**0.90**	12.0	12.00
Summary Averages:			**1.50**		**1.50**	**11.63**	**12.00**
4	Removed from data - FC						

Note: Shading represents 1 standard deviation above(green) or below(red) the average

SB Inside Shoulder 0.063 to 49.282

Material		Thickness	Coeff	SN
SP1F/TYPE S		1.50	0.25	0.38
LR		11.63	0.18	2.09
STAB		12.00	0.08	0.96
			Existing SN =	3.43

Table	A.10	B
Interpolation Formula		
	$ESAL_D$	SN
Low	500,000	2.12
High	600,000	2.18
Actual	514,710	2.13

M_r =	32,000	psi	
Design ESAL =	514,710		
Design Traffic =	37,399	(20 year)	
% R =	99		
SN Required:	=>	2.13	

TABLE 5.4

STRUCTURAL COEFFICIENTS FOR DIFFERENT PAVEMENT LAYERS (New Construction or Reconstruction)

Layer Type	Layer Coeff. per inch	Specification Section
FC-5	0.00	337
FC-12.5, FC-9.5	0.44	337
Superpave Type SP (SP-9.5, SP-12.5, SP-19.0)	0.44	334
Limerock (LBR 100)	0.18	200
Cemented Coquina (LBR 100)	0.18	911
Shell Rock (LBR 100)	0.18	200
Bank Run Shell (LBR 100)	0.18	200
Graded Aggregate (LBR 100)	0.15	204
Recycled Concrete Aggregate (LBR 150)	0.18	911
Type B-12.5	0.30	234
Limerock Stab. (LBR 70)	0.12	230
Shell Stab. (LBR 70)	0.10	
Sand Clay (LBR 75)	0.12	
Soil Cement (500 psi)	0.20	
Soil Cement (300 psi)	0.15	
Type B Stab. (LBR 40)	0.08	
Type B Stab. (LBR 30)	0.06	
Type C Stab.	0.06	
Cement Treated (300 psi)	0.12	
Lime Treated	0.08	

TABLE 7.1
REDUCED STRUCTURAL COEFFICIENTS OF ASPHALT MATERIALS PER INCH
Recommended Criteria
(based on the Pavement Condition Survey ratings)

Good - No Cracking, minor rutting/distortion

Fair - Crack Rated 8 or higher, minor rutting and / or distortion

Poor - Cracking or Rutting rated 7 or less

Layer coefficients for granular base, subbase, and stabilization are not reduced. Use the values shown in ***Table 5.4***.

Layer	Original Design	Pavement Condition		
		Good	Fair	Poor
FC-2 or FC-5	0			
FC-1 or FC-4	0.20	0.17	0.15	0.12
FC-3	0.22	0.20	0.17	0.15
FC-6	0.44	0.34	0.25	0.15
FC-12.5 or FC-9.5	0.44	0.34	0.25	0.15
Type S or SP	0.44	0.34	0.25	0.15
Type I	0.37	0.30	0.23	0.15
Type II	0.20	0.17	0.15	0.12
Type III	0.30	0.25	0.20	0.15
Binder	0.30	0.25	0.20	0.15
ABC-1	0.20	0.17	0.14	0.10
ABC-2	0.25	0.20	0.16	0.12
ABC-3	0.30	0.25	0.20	0.15
Type B-12.5	0.30	0.25	0.20	0.15
Sand Asphalt Hot Mix (SAHM)	0.15	0.13	0.11	0.08
Sand Bituminous Road Mix (SBRM)	0.15	0.13	0.11	0.08

TABLE 5.10

LAYER THICKNESS FOR ASPHALT CONCRETE SHOULDER STRUCTURAL COURSES

For projects requiring FC-5, the top structural layer of the roadway overlay and a narrow adjacent shoulder course (≤ 5-ft wide) must be constructed in one pass. The following apply when a 5-ft or less shoulder is to be constructed in conjunction with an overlay of the road.

Roadway Course Thickness	Shoulder Structural Course Thickness
1.0”	1.0” *
1.5”	1.5” *
2.0”	1.0” *
2.5”	1.0” *
3.0”	1.0” *
3.5”	1.0” *

For projects requiring FC-12.5 or FC-9.5, a single lift may be sufficient structural thickness for the shoulder pavement.

*Note: For Traffic Level D and E applications, SP-9.5 is not allowed.

TABLE 5.11

LAYER THICKNESS FOR ASPHALTIC CONCRETE STRUCTURAL COURSES

(Layers Are Listed In Sequence Of Construction)																				
Course Thickness (in)	LAYER THICKNESS (inches)																			
	SP-19.0 with SP-12.5 Top Layer			SP-19.0 with SP-9.5 Top Layer			SP-12.5			SP-12.5 with SP-9.5 Top Layer			SP-9.5		SP-19.0 1st Layer with SP-12.5 2nd Layer and Top Layer			SP-12.5 1st Layer with SP-9.5 2nd Layer and Top Layer		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	1	2	3	1	2	3
1													1							
1½							1½						1½							
2							2						1	1						
2½							2½			1½	1		1½	1						
3				2	1		1½	1½		2	1		1½	1½						
3½	2	1½		2½	1		2	1½		2	1½									
										2½	1									
4	2½	1½		3	1		2	2		2½	1½									
	2	2		2½	1½		2½	1½												
4½	2½	2		3	1½		2½	2							1½	1½	1½	2	1½	1
	2	2½					1½	1½	1½											
5	3	2		2	2	1	2½	2½		2	1½	1½			2	1½	1½	2	1½	1½
	2½	2½					2	1½	1½	2	2	1						2½	1½	1
5½	2	2	1½	2½	2	1	2½	1½	1½	2	2	1½			2½	1½	1½	2½	1½	1½
							2	2	1½	2½	2	1			2	2	1½			
6	2½	2	1½	2½	2½	1	2	2	2	2½	2½	1			2½	2	1½			
	2	2	2	3	2	1	2½	2	1½	2½	2	1½			2	2	2			

Notes:

(1) SP-9.5 not allowed on Traffic Level D or E applications.

(2) SP-9.5 limited to the top two structural layers, two layers maximum.

(3) SP-19.0 not allowed in the final (top) structural layer below FC-5 mixtures.

(4) SP-19.0 allowed in the layer directly below FC-9.5 and FC-12.5 mixtures.

TABLE A.10B

REQUIRED STRUCTURAL NUMBER (SN_R)
99% RELIABILITY (%R)
RESILIENT MODULUS (M_R) RANGE 18,000 PSI TO 32,000 PSI

RESILIENT MODULUS (M_R), (PSI x 1000)															
$ESAL_D$	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
100,000	2.02	1.98	1.94	1.90	1.87	1.83	1.80	1.77	1.75	1.72	1.69	1.67	1.65	1.62	1.60
150,000	2.17	2.12	2.08	2.04	2.00	1.97	1.93	1.90	1.87	1.85	1.82	1.79	1.77	1.75	1.72
200,000	2.27	2.23	2.18	2.14	2.10	2.07	2.03	2.00	1.97	1.94	1.91	1.88	1.86	1.83	1.81
250,000	2.36	2.31	2.26	2.22	2.18	2.14	2.11	2.08	2.04	2.01	1.99	1.96	1.93	1.91	1.88
300,000	2.43	2.38	2.33	2.29	2.25	2.21	2.17	2.14	2.11	2.08	2.05	2.02	1.99	1.97	1.94
350,000	2.49	2.44	2.40	2.35	2.31	2.27	2.23	2.20	2.16	2.13	2.10	2.07	2.05	2.02	1.99
400,000	2.55	2.50	2.45	2.40	2.36	2.32	2.28	2.25	2.21	2.18	2.15	2.12	2.09	2.07	2.04
450,000	2.60	2.55	2.50	2.45	2.41	2.37	2.33	2.29	2.26	2.22	2.19	2.16	2.13	2.11	2.08
500,000	2.65	2.59	2.54	2.49	2.45	2.41	2.37	2.33	2.30	2.26	2.23	2.20	2.17	2.14	2.12
600,000	2.73	2.67	2.62	2.57	2.53	2.48	2.44	2.40	2.37	2.33	2.30	2.27	2.24	2.21	2.18
700,000	2.80	2.74	2.69	2.64	2.59	2.55	2.51	2.47	2.43	2.39	2.36	2.33	2.30	2.27	2.24
800,000	2.86	2.80	2.75	2.70	2.65	2.60	2.56	2.52	2.48	2.45	2.41	2.38	2.35	2.32	2.29
900,000	2.92	2.86	2.80	2.75	2.70	2.66	2.61	2.57	2.53	2.50	2.46	2.43	2.40	2.37	2.34
1,000,000	2.97	2.91	2.85	2.80	2.75	2.70	2.66	2.62	2.58	2.54	2.51	2.47	2.44	2.41	2.38
1,500,000	3.18	3.11	3.05	2.99	2.94	2.89	2.84	2.80	2.76	2.72	2.68	2.64	2.61	2.58	2.55
2,000,000	3.33	3.26	3.20	3.14	3.08	3.03	2.98	2.94	2.89	2.85	2.81	2.77	2.74	2.70	2.67
2,500,000	3.46	3.39	3.32	3.26	3.20	3.15	3.10	3.05	3.00	2.96	2.92	2.88	2.84	2.80	2.77
3,000,000	3.56	3.49	3.42	3.36	3.30	3.24	3.19	3.14	3.09	3.05	3.01	2.97	2.93	2.89	2.86
3,500,000	3.65	3.58	3.51	3.44	3.38	3.33	3.27	3.22	3.17	3.13	3.08	3.04	3.00	2.97	2.93
4,000,000	3.73	3.66	3.59	3.52	3.46	3.40	3.35	3.29	3.24	3.20	3.15	3.11	3.07	3.03	3.00
4,500,000	3.80	3.73	3.65	3.59	3.53	3.47	3.41	3.36	3.31	3.26	3.22	3.17	3.13	3.09	3.05
5,000,000	3.87	3.79	3.72	3.65	3.59	3.53	3.47	3.42	3.37	3.32	3.27	3.23	3.19	3.15	3.11
6,000,000	3.98	3.90	3.83	3.76	3.69	3.63	3.58	3.52	3.47	3.42	3.37	3.33	3.28	3.24	3.20
7,000,000	4.08	4.00	3.92	3.85	3.79	3.72	3.67	3.61	3.56	3.51	3.46	3.41	3.37	3.33	3.29
8,000,000	4.16	4.08	4.01	3.94	3.87	3.81	3.75	3.69	3.63	3.58	3.53	3.49	3.44	3.40	3.36
9,000,000	4.24	4.16	4.08	4.01	3.94	3.88	3.82	3.76	3.70	3.65	3.60	3.56	3.51	3.47	3.43
10,000,000	4.31	4.23	4.15	4.08	4.01	3.94	3.88	3.82	3.77	3.72	3.67	3.62	3.57	3.53	3.48
15,000,000	4.58	4.50	4.42	4.34	4.27	4.20	4.14	4.08	4.02	3.96	3.91	3.86	3.81	3.77	3.72
20,000,000	4.78	4.69	4.61	4.53	4.46	4.39	4.33	4.26	4.20	4.15	4.09	4.04	3.99	3.94	3.90
25,000,000	4.94	4.85	4.76	4.69	4.61	4.54	4.47	4.41	4.35	4.29	4.24	4.18	4.13	4.08	4.04
30,000,000	5.07	4.98	4.89	4.81	4.74	4.67	4.60	4.53	4.47	4.41	4.36	4.30	4.25	4.20	4.15
35,000,000	5.18	5.09	5.00	4.92	4.84	4.77	4.70	4.64	4.58	4.52	4.46	4.41	4.35	4.30	4.25
40,000,000	5.28	5.18	5.10	5.02	4.94	4.87	4.80	4.73	4.67	4.61	4.55	4.50	4.44	4.39	4.34
45,000,000	5.36	5.27	5.18	5.10	5.02	4.95	4.88	4.81	4.75	4.69	4.63	4.58	4.52	4.47	4.42
50,000,000	5.44	5.35	5.26	5.18	5.10	5.02	4.95	4.89	4.82	4.76	4.70	4.65	4.59	4.54	4.49
60,000,000	5.58	5.48	5.39	5.31	5.23	5.16	5.08	5.02	4.95	4.89	4.83	4.77	4.72	4.67	4.62
70,000,000	5.70	5.60	5.51	5.43	5.34	5.27	5.20	5.13	5.06	5.00	4.94	4.88	4.83	4.77	4.72
80,000,000	5.80	5.70	5.61	5.53	5.44	5.37	5.29	5.22	5.16	5.09	5.03	4.98	4.92	4.87	4.81
90,000,000	5.89	5.79	5.70	5.61	5.53	5.46	5.38	5.31	5.24	5.18	5.12	5.06	5.00	4.95	4.90
100,000,000	5.97	5.88	5.78	5.70	5.61	5.53	5.46	5.39	5.32	5.26	5.20	5.14	5.08	5.02	4.97

Appendix E

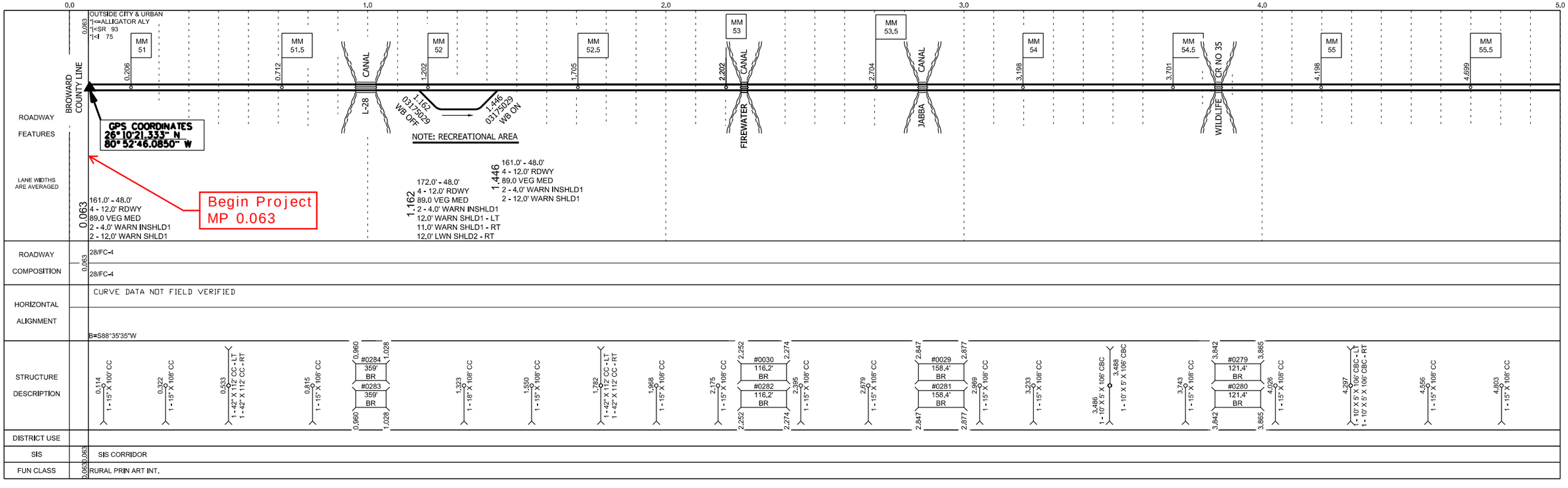
Straight Line Diagram

	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO.
02	I 75	SR 93	COLLIER	01	03175000	1 OF 9



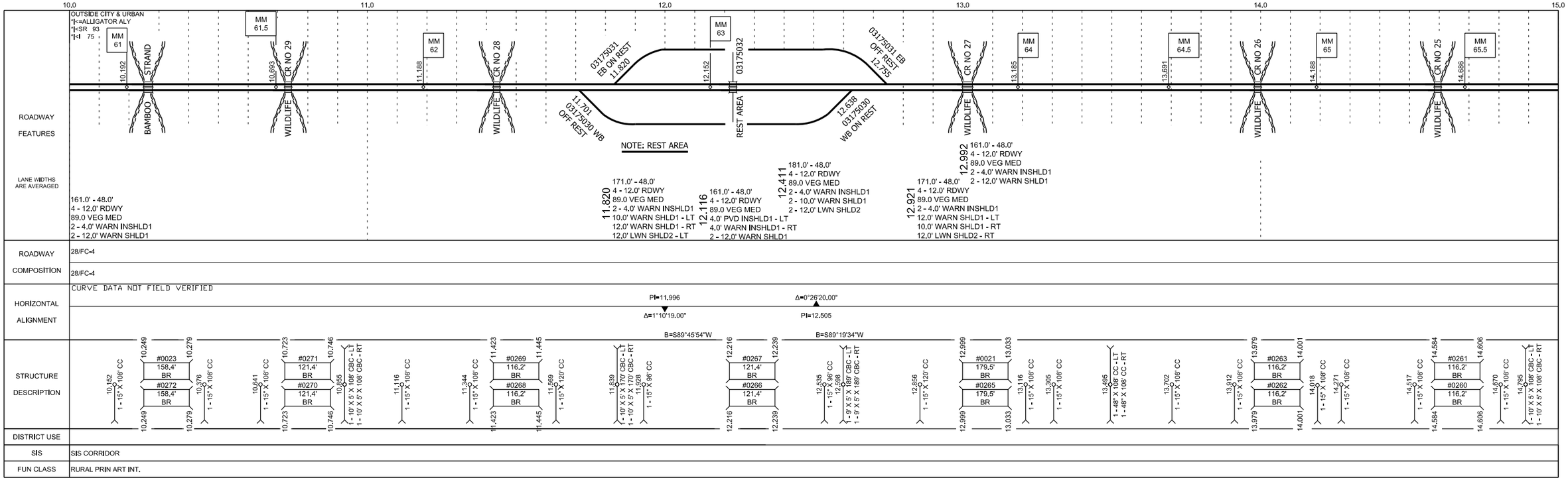
Version: 1.4.2.27 04/06/2018

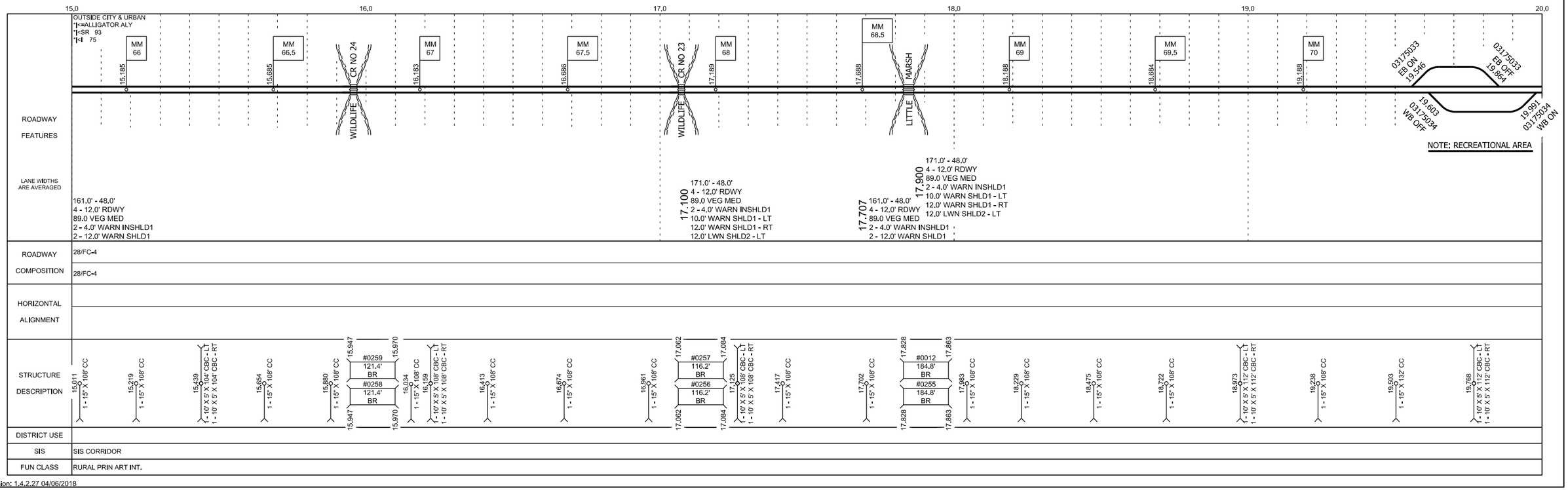
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO.
02	I 75	SR 93	COLLIER	01	03175000	2 OF 9



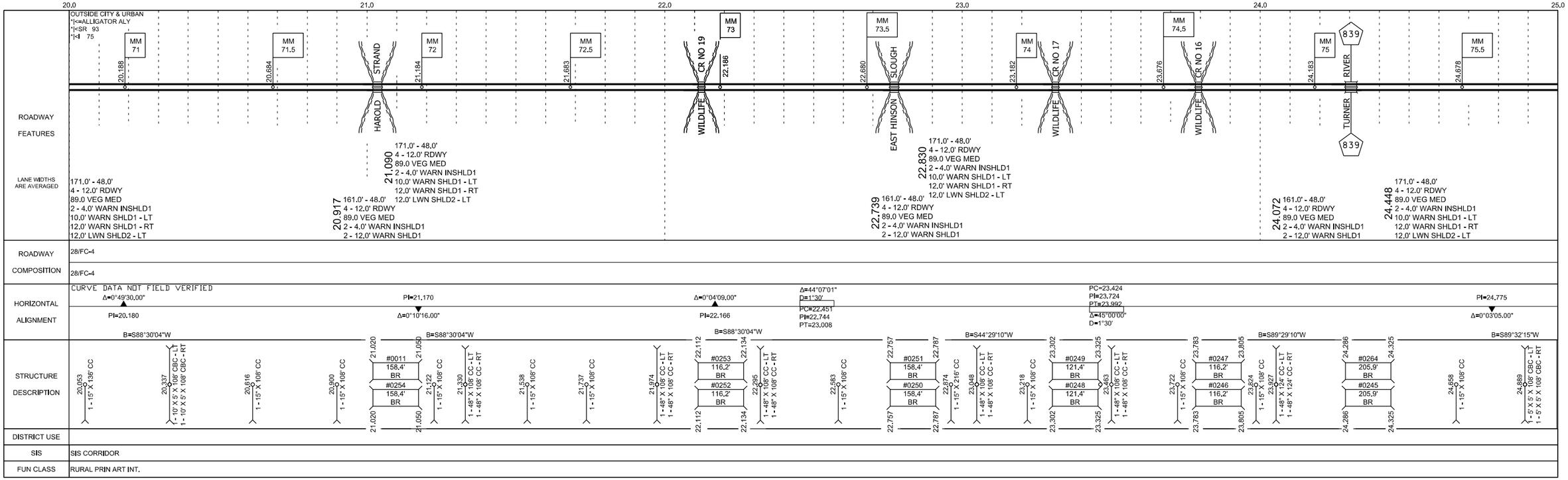


	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO.
02	I 75	SR 93	COLLIER	01	03175000	3 OF 9

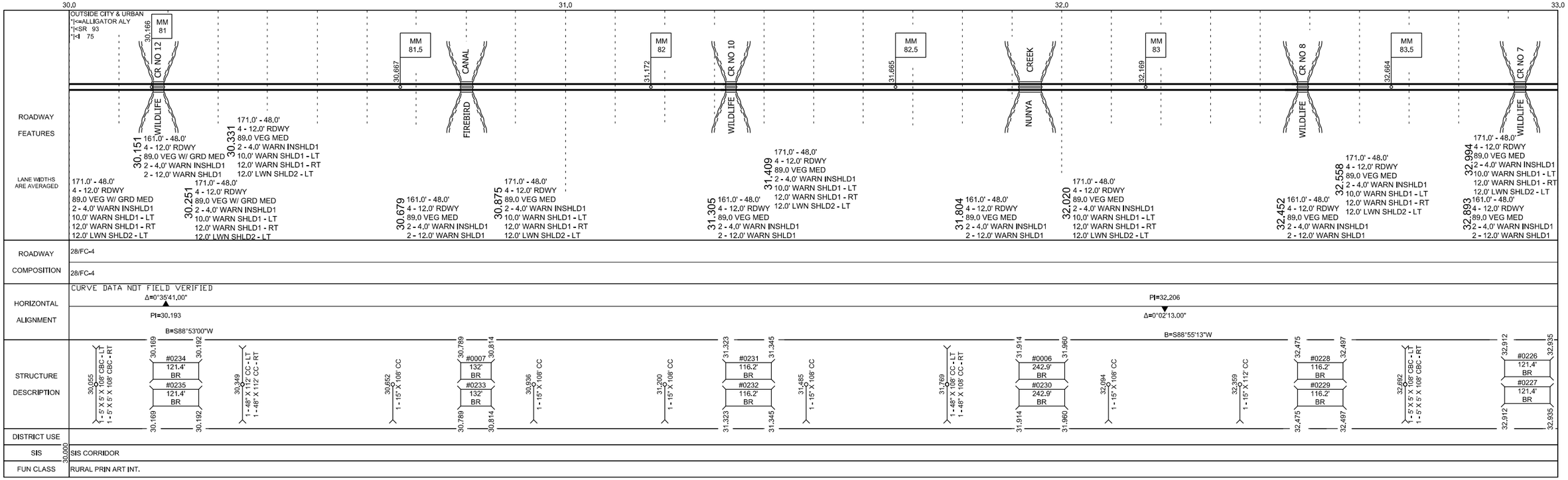


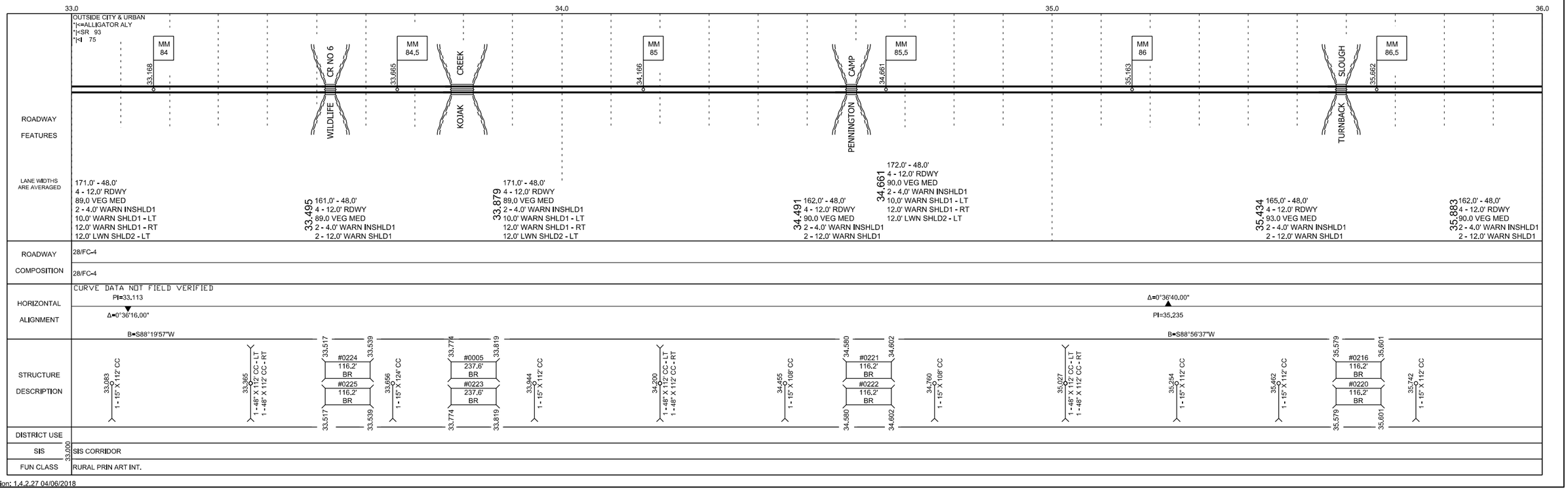
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	COLLIER	01	03175000	4 OF 9



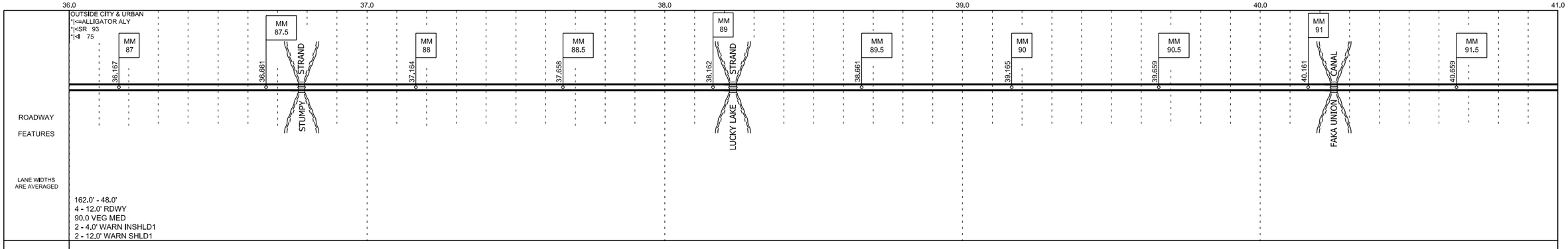


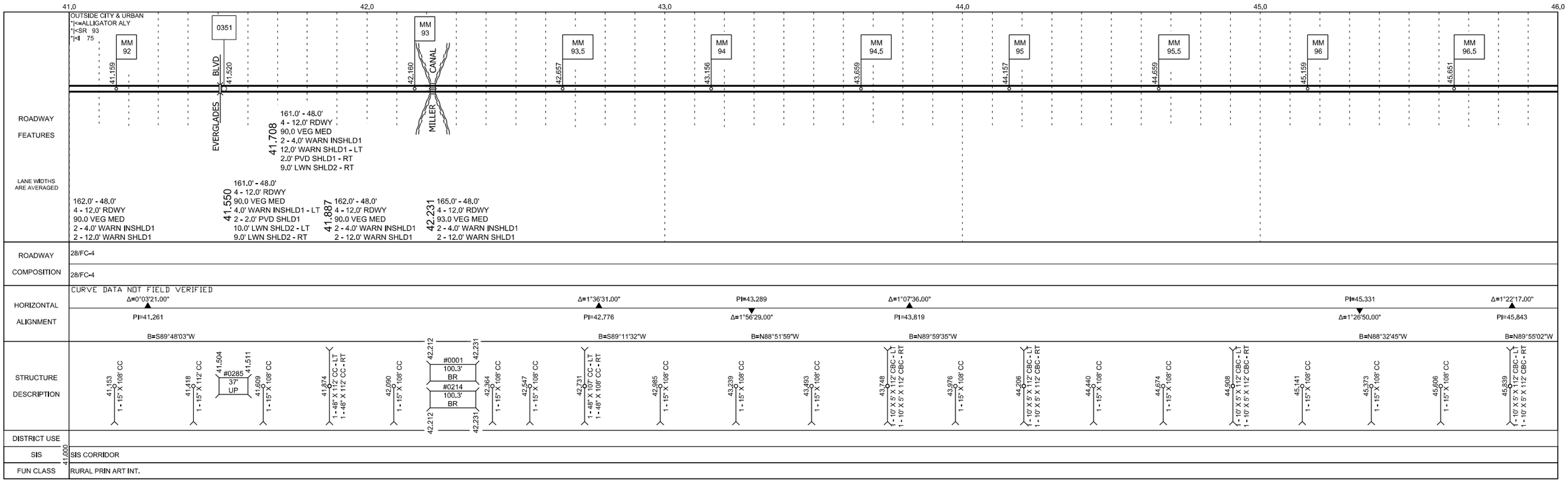
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	COLLIER	01	03175000	5 OF 9



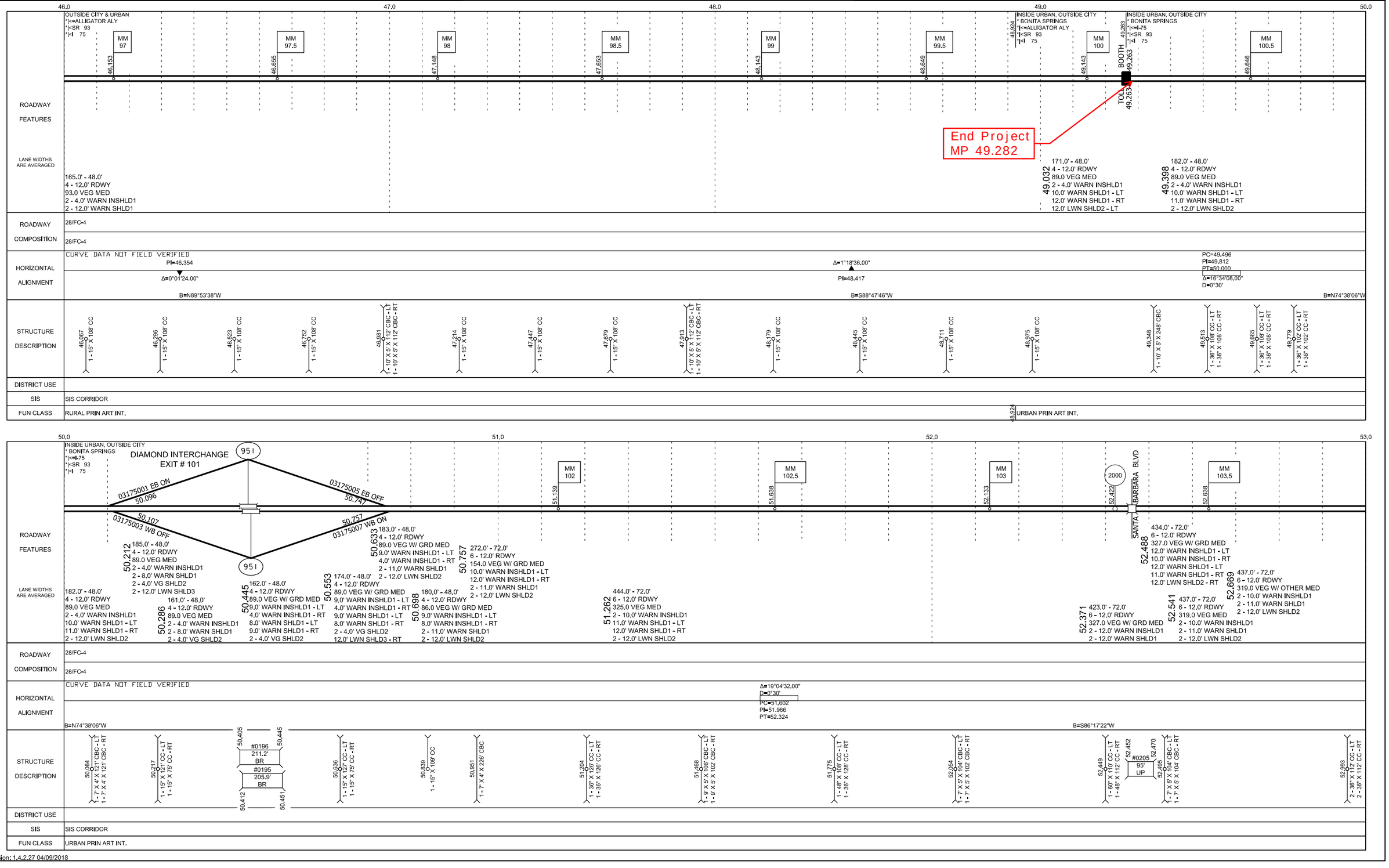


	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	COLLIER	01	03175000	6 OF 9



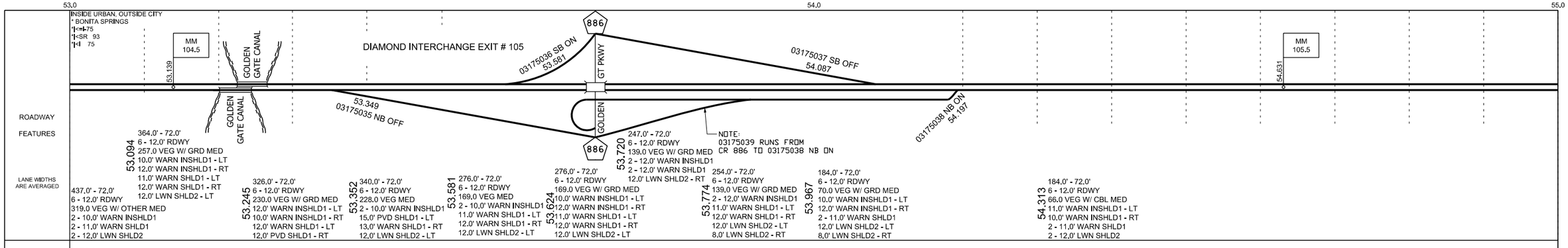
Version: 1.4.2.27 04/09/2018

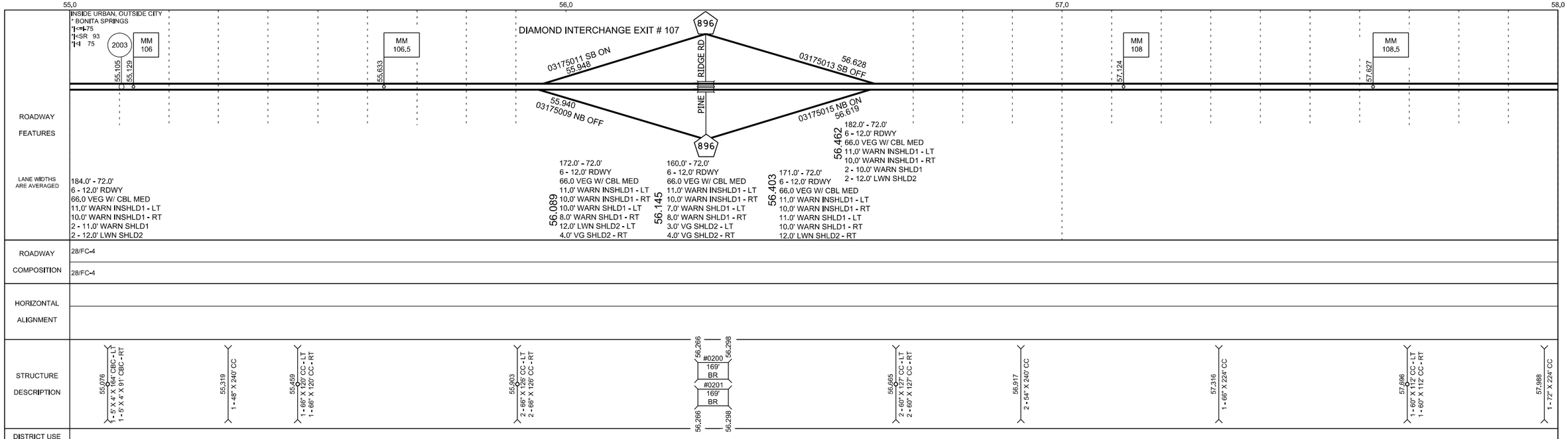
	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	COLLIER	01	03175000	7 OF 9





	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	COLLIER	01	03175000	8 OF 9

58.0 — 59.0 — 60.0

ROADWAY FEATURES

INSIDE URBAN, OUTSIDE CITY
* BONITA SPRINGS
*I<=I-75
*I<SR 93
*I<I 75

MM 109 — 58.124

862 BCH RD — 58.629

MM 109.5

MM 110 — 59.125

MM 110.5 — 59.620

58.342: 175.0' - 72.0' | 6 - 12.0' RDWY | 79.0 VEG W/ CBL MED | 2 - 10.0' WARN INSHLD1 | 2 - 8.0' WARN SHLD1 | 2 - 4.0' VG SHLD2

862 VNDRBLT

58.646: 378.0' - 72.0' | 6 - 12.0' RDWY | 282.0 VEG W/ GRD MED | 12.0' WARN INSHLD1 - LT | 8.0' WARN INSHLD1 - RT | 4.0' VG INSHLD2 - RT | 8.0' PVD SHLD1 - LT | 12.0' WARN SHLD1 - RT | 4.0' VG SHLD2 - LT

LANE WIDTHS ARE AVERAGED

182.0' - 72.0' | 6 - 12.0' RDWY | 66.0 VEG W/ CBL MED | 11.0' WARN INSHLD1 - LT | 10.0' WARN INSHLD1 - RT | 2 - 10.0' WARN SHLD1 | 2 - 12.0' LWN SHLD2

58.269: 175.0' - 72.0' | 6 - 12.0' RDWY | 79.0 VEG W/ CBL MED | 2 - 10.0' WARN INSHLD1 | 2 - 12.0' WARN SHLD1

58.390: 250.0' - 72.0' | 6 - 12.0' RDWY | 154.0 VEG W/ GRD MED | 12.0' WARN INSHLD1 - LT | 8.0' WARN INSHLD1 - RT | 4.0' VG INSHLD2 - RT | 8.0' WARN SHLD1 - LT | 12.0' WARN SHLD1 - RT | 4.0' VG SHLD2 - LT

58.530: 340.0' - 72.0' | 6 - 12.0' RDWY | 244.0 VEG W/ GRD MED | 12.0' WARN INSHLD1 - LT | 8.0' WARN INSHLD1 - RT | 4.0' VG INSHLD2 - RT | 8.0' PVD SHLD1 - LT | 12.0' WARN SHLD1 - RT | 4.0' VG SHLD2 - LT

58.720: 445.0' - 72.0' | 6 - 12.0' RDWY | 329.0 VEG W/ CBL MED | 11.0' WARN INSHLD1 - LT | 10.0' WARN INSHLD1 - RT | 2 - 10.0' WARN SHLD1 | 2 - 12.0' LWN SHLD2

59.850: 182.0' - 72.0' | 6 - 12.0' RDWY | 66.0 VEG W/ CBL MED | 11.0' WARN INSHLD1 - LT | 10.0' WARN INSHLD1 - RT | 2 - 10.0' WARN SHLD1 | 2 - 12.0' LWN SHLD2

ROADWAY COMPOSITION

28/FC-4

28/FC-4

HORIZONTAL ALIGNMENT

CURVE DATA NOT FIELD VERIFIED

Δ=17°40'21.00"
D=0°45'
PC=58,978
PI=59,203
PT=59,425

PC=59,993
PI=60,343
PT=60,686
Δ=18°17'38.00"
D=0°30'

B=N18°20'08"W

STRUCTURE DESCRIPTION

58.076 — 1 - 60' X 248' CC

58.479 — 1 - 7' X 6' X 175' CBC - LT | 1 - 7' X 6' X 175' CBC - RT

58.497 — #0202 — 174.2' BR — 58.530

58.497 — #0203 — 174.2' BR — 58.530

59.257 — 1 - 24' X 160' CC

DISTRICT USE

SIS

SIS CORRIDOR

FUN CLASS

URBAN PRIN ART INT.

60.0 — 61.0 — 62.0

ROADWAY FEATURES

INSIDE URBAN, OUTSIDE CITY
* BONITA SPRINGS
*I<=I-75
*I<SR 93
*I<I 75

0191 — 60.100

846 HWY

03175017 SB ON — 60.294

03175021 SB OFF — 60.785

60.294 — 03175019 NB OFF

60.779 — 03175023 NB ON

846 NAP IMMOK

CANAL ROCK

MM 112 — 61.119

9950 — 61.558

MM 112.5 — 61.624

60.349: 185.0' - 72.0' | 6 - 12.0' RDWY | 66.0 VEG W/ CBL MED | 2 - 11.0' WARN INSHLD1 | 7.0' WARN SHLD1 - LT | 8.0' WARN SHLD1 - RT | 2 - 4.0' VG SHLD2 | 2 - 12.0' LWN SHLD3

60.403: 161.0' - 72.0' | 6 - 12.0' RDWY | 66.0 VEG W/ CBL MED | 2 - 11.0' WARN INSHLD1 | 7.0' WARN SHLD1 - LT | 8.0' WARN SHLD1 - RT | 2 - 4.0' VG SHLD2

60.459: 160.0' - 72.0' | 6 - 12.0' RDWY | 65.0 VEG W/ GRD MED | 20.0' WARN INSHLD1 - LT | 18.0' WARN INSHLD1 - RT | 7.0' WARN SHLD1 - LT | 8.0' WARN SHLD1 - RT | 2 - 4.0' VG SHLD2

60.619: 160.0' - 72.0' | 6 - 12.0' RDWY | 65.0 VEG W/ CBL MED | 2 - 11.0' WARN INSHLD1 | 7.0' WARN SHLD1 - LT | 8.0' WARN SHLD1 - RT | 2 - 4.0' VG SHLD2

60.670: 185.0' - 72.0' | 6 - 12.0' RDWY | 65.0 VEG W/ CBL MED | 2 - 11.0' WARN INSHLD1 | 2 - 8.0' WARN SHLD1 | 2 - 4.0' VG SHLD2 | 2 - 12.0' LWN SHLD3

60.727: 181.0' - 72.0' | 6 - 12.0' RDWY | 65.0 VEG W/ CBL MED | 2 - 11.0' WARN INSHLD1 | 2 - 10.0' WARN SHLD1 | 2 - 12.0' LWN SHLD2

60.820: 171.0' - 72.0' | 6 - 12.0' RDWY | 66.0 VEG W/ GRD MED | 13.0' WARN INSHLD1 - LT | 10.0' WARN INSHLD1 - RT | 12.0' WARN SHLD1 - LT | 9.0' PVD SHLD1 - RT | 12.0' LWN SHLD2 - RT

60.964: 182.0' - 72.0' | 6 - 12.0' RDWY | 66.0 VEG W/ CBL MED | 2 - 10.0' WARN INSHLD1 | 2 - 10.0' WARN SHLD1 | 2 - 12.0' LWN SHLD2

LANE WIDTHS ARE AVERAGED

182.0' - 72.0' | 6 - 12.0' RDWY | 66.0 VEG W/ CBL MED | 11.0' WARN INSHLD1 - LT | 10.0' WARN INSHLD1 - RT | 2 - 10.0' WARN SHLD1 | 2 - 12.0' LWN SHLD2

ROADWAY COMPOSITION

28/FC-4

28/FC-4

HORIZONTAL ALIGNMENT

CURVE DATA NOT FIELD VERIFIED

B=N00°28'34"W

STRUCTURE DESCRIPTION

60.207 — 2 - 24" X 120' CC

60.519 — #0321 — 179.5' BR — 60.553

60.519 — #0322 — 179.5' BR — 60.553

60.828 — 1 - 18" X 100' CC

60.885 — #0189 — 116.2' BR — 60.907

60.885 — #0190 — 116.2' BR — 60.907

61.162 — 1 - 30" X 230' CC

61.518 — 1 - 12" X 10' X 242' CBC

61.733 — 1 - 42" X 290' CC

DISTRICT USE

SIS

SIS CORRIDOR

FUN CLASS

URBAN PRIN ART INT.

	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE	03/29/2018	04/13/2018				
BY	FTE	FTE				

FLORIDA DEPARTMENT OF TRANSPORTATION

STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	I 75	SR 93	COLLIER	01	03175000	9 OF 9

62.0 63.0

ROADWAY FEATURES

INSIDE URBAN, OUTSIDE CITY
* BONITA SPRINGS
*I<=I-75
*I<SR 93
*I-I 75

MM 113 — 62.122
MM 113.5 — 62.616
MM 114 — 63.115
LEE COUNTY LINE — 63.676

GPS COORDINATES
26°19'00.873" N
81°44'46.9008" W

END MP: 63.676
NET ROADWAY ID LENGTH: 63.613

LANE WIDTHS ARE AVERAGED

182.0' - 72.0'
6 - 12.0' RDWY
66.0 VEG W/ CBL MED
2 - 10.0' WARN INSHLD1
2 - 10.0' WARN SHLD1
2 - 12.0' LWN SHLD2

ROADWAY COMPOSITION

28/FC-4
28/FC-4

HORIZONTAL ALIGNMENT

CURVE DATA NOT FIELD VERIFIED

Δ=19°28'46.00"
D=1°00'
PC=62.889
PI=62.714
PT=63.259

B=N19°57'20"W

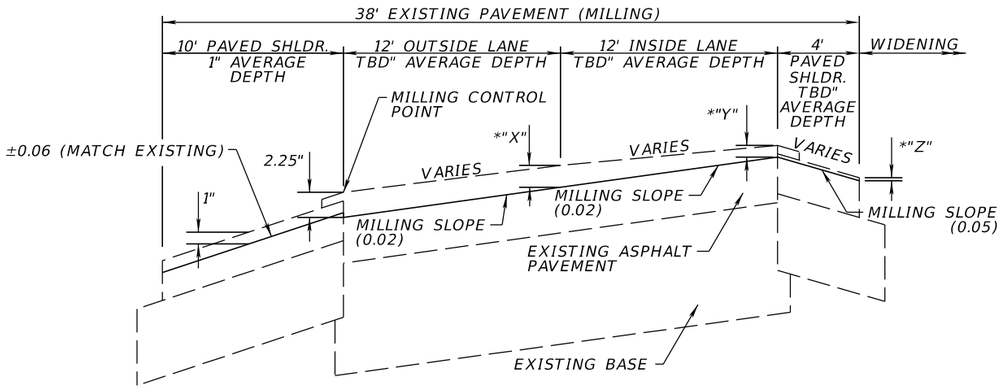
STRUCTURE DESCRIPTION

62.049 — 1 - 30" X 240' CC
62.349 — 1 - 18" X 120' CC
62.555 — 1 - 30" X 240' CC
63.258 — 2 - 10' X 8' X 220' CBC

DISTRICT USE	
SIS	SIS CORRIDOR — SIS CORRIDOR
FUN CLASS	URBAN PRIN ART INT.

Appendix F

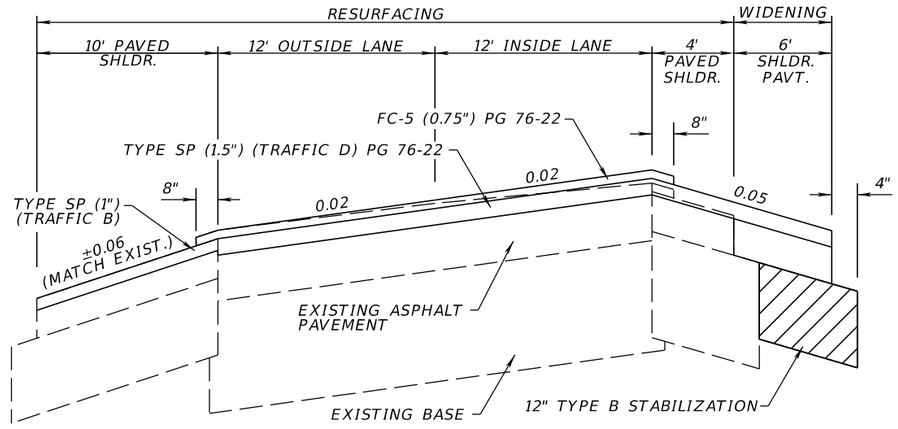
Typical Section Details



VARIABLE DEPTH MILLING DETAIL

* "X", "Y" & "Z" MILL DEPTHS VARY DEPENDENT ON EXISTING CROSS SLOPES
- OUTSIDE TRAVEL LANE EDGE AVERAGE MILL DEPTH "X" = TBD"
- INSIDE TRAVEL LANE EDGE AVERAGE MILL DEPTH "Y" = TBD"
- INSIDE SHOULDER EDGE AVERAGE MILL DEPTH "Z" = TBD"

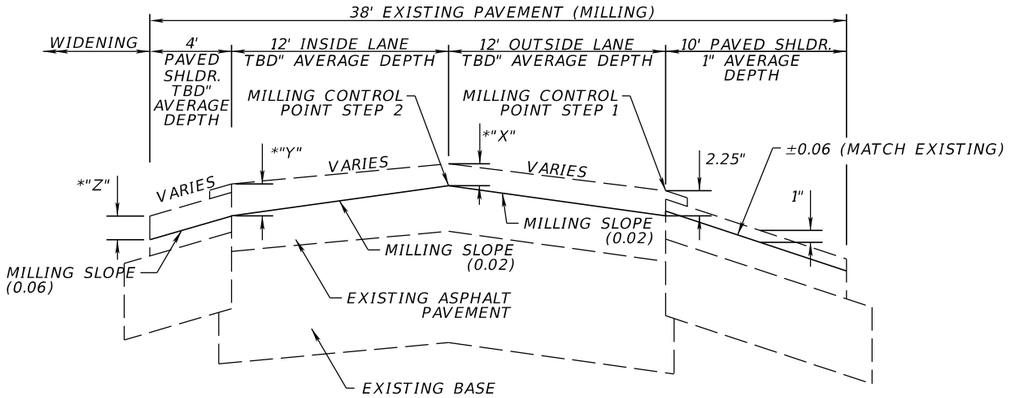
* A MINIMUM MILLING DEPTH OF 1" (REMOVAL OF EXISTING FRICTION COURSE) IS REQUIRED ON ALL EXISTING TRAVEL LANE PAVEMENT.



RESURFACING DETAIL

VARIABLE DEPTH MILLING AND RESURFACING (NORTHBOUND)

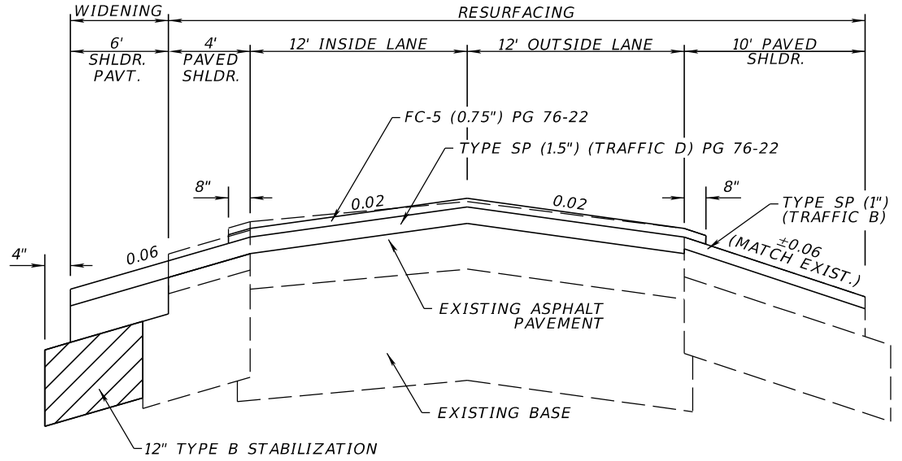
STA 233+78.70 to STA 205+00.00 BK, 96+16.51 AH to STA 2670+68.92



VARIABLE DEPTH MILLING DETAIL

* "X", "Y" & "Z" MILL DEPTHS VARY DEPENDENT ON EXISTING CROSS SLOPES
- OUTSIDE TRAVEL LANE EDGE AVERAGE MILL DEPTH "X" = TBD"
- INSIDE TRAVEL LANE EDGE AVERAGE MILL DEPTH "Y" = TBD"
- INSIDE SHOULDER EDGE AVERAGE MILL DEPTH "Z" = TBD"

* A MINIMUM MILLING DEPTH OF 1" (REMOVAL OF EXISTING FRICTION COURSE) IS REQUIRED ON ALL EXISTING TRAVEL LANE PAVEMENT.



RESURFACING DETAIL

VARIABLE DEPTH MILLING AND RESURFACING (SOUTHBOUND)

STA 233+78.70 to STA 205+00.00 BK, 96+16.51 AH to STA 2670+68.92

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FALLER, DAVIS & ASSOCIATES, INC.
4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
KENNETH R. MUZYK, JR., P.E. NO.: 44076

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	COLLIER	444008-1-52-01

TYPICAL SECTION DETAILS (1)

SHEET NO.

Appendix G

Typical Section Package

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

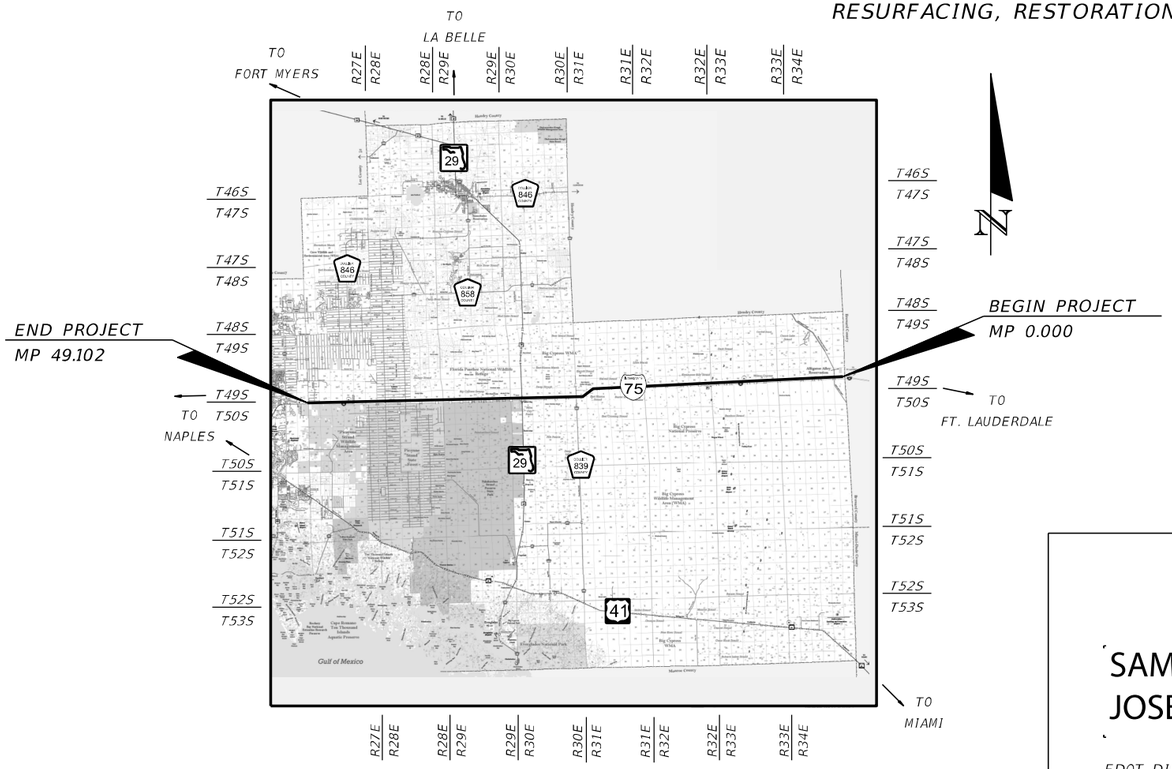
TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 444008-1-52-01
444008-1-52-02

COLLIER COUNTY (03175)

SR 93 (INTERSTATE 75)

RESURFACING, RESTORATION, AND REHABILITATION



LOCATION MAP

APPROVED BY:

KENNETH ROGER MUZYK, JR. LICENSE No 44076 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Kenneth R Muzyk Jr. 2020-02-21 14:27:12

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

FALLER, DAVIS & ASSOCIATES, INC
4200 W. CYPRESS ST., SUITE 500
TAMPA, FLORIDA 33607-4168
KENNETH ROGER MUZYK, JR., P.E. NO.: 44076

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

TYPICAL SECTION PACKAGE

TYPICAL SECTION CONCURRENCE

SAM K JOSEPH — Digitally signed by SAM K JOSEPH Date: 2020.02.24 12:57:59 -05'00'

FDOT DISTRICT DESIGN ENGINEER

Andra G Diggs II — Digitally signed by Andra G Diggs II Date: 2020.03.03 13:22:26 -05'00'

FDOT DISTRICT STRUCTURES DESIGN ENGINEER

FHWA TRANSPORTATION ENGINEER

DESIGN SPEED AND POSTED SPEED CONCURRENCE:

Trisha Hartzell — Digitally signed by Trisha Hartzell Date: 2020.02.21 15:48:47-05'00'

FDOT DISTRICT TRAFFIC OPERATIONS ENGINEER

SAM K JOSEPH — Digitally signed by SAM K JOSEPH Date: 2020.02.24 12:58:22 -05'00'

FDOT DISTRICT DESIGN ENGINEER

CONTEXT CLASSIFICATION CONCURRENCE:

Nicole E Mills 2020.02.21 14:32:02 -05'00'

FDOT DISTRICT INTERMODAL SYSTEMS DEVELOPMENT MANAGER

SHEET NO. 1

2/3/2020 9:26:31 AM

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
(X)	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

(X)	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
( )	MINOR ARTERIAL		

HIGHWAY SYSTEM

(X)	NATIONAL HIGHWAY SYSTEM
(X)	STRATEGIC INTERMODAL SYSTEM
(X)	STATE HIGHWAY SYSTEM
( )	OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

(X)	1 - FREEWAY
( )	2 - RESTRICTIVE w/Service Roads
( )	3 - RESTRICTIVE w/660 ft. Connection Spacing
( )	4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( )	5 - RESTRICTIVE w/440 ft. Connection Spacing
( )	6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( )	7 - BOTH MEDIAN TYPES

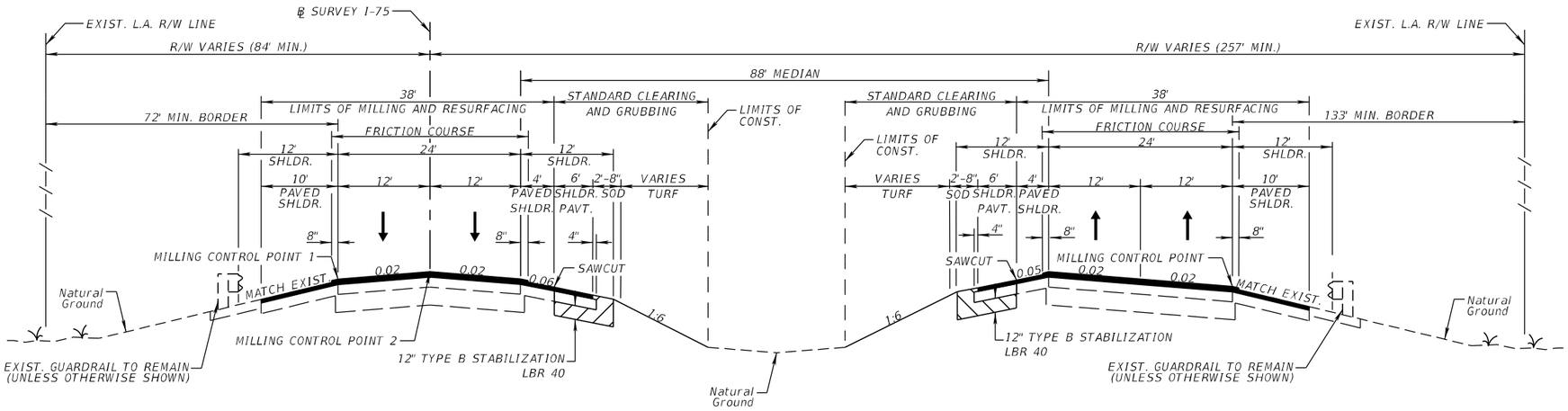
CRITERIA

( )	NEW CONSTRUCTION / RECONSTRUCTION
(X)	RESURFACING (LA FACILITIES)
( )	RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 1



SOUTHBOUND

NORTHBOUND

NOT TO SCALE

SR 93 (I-75)

MP 0.00 TO 49.102

TRAFFIC DATA

CURRENT YEAR = 2020 AADT = 25600
ESTIMATED OPENING YEAR = 2022 AADT = 26600
ESTIMATED DESIGN YEAR = 2042 AADT = 37300
K = 9.0% D = 54.6% T = 18.1% (24 HOUR)
DESIGN HOUR T = 9.05%
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID	SHEET NO.
444008-1-52-01	2

2/3/2020 9:26:43 AM

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
(X)	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

(X)	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
( )	MINOR ARTERIAL		

HIGHWAY SYSTEM

(X)	NATIONAL HIGHWAY SYSTEM
(X)	STRATEGIC INTERMODAL SYSTEM
(X)	STATE HIGHWAY SYSTEM
( )	OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

(X)	1 - FREEWAY
( )	2 - RESTRICTIVE w/Service Roads
( )	3 - RESTRICTIVE w/660 ft. Connection Spacing
( )	4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( )	5 - RESTRICTIVE w/440 ft. Connection Spacing
( )	6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( )	7 - BOTH MEDIAN TYPES

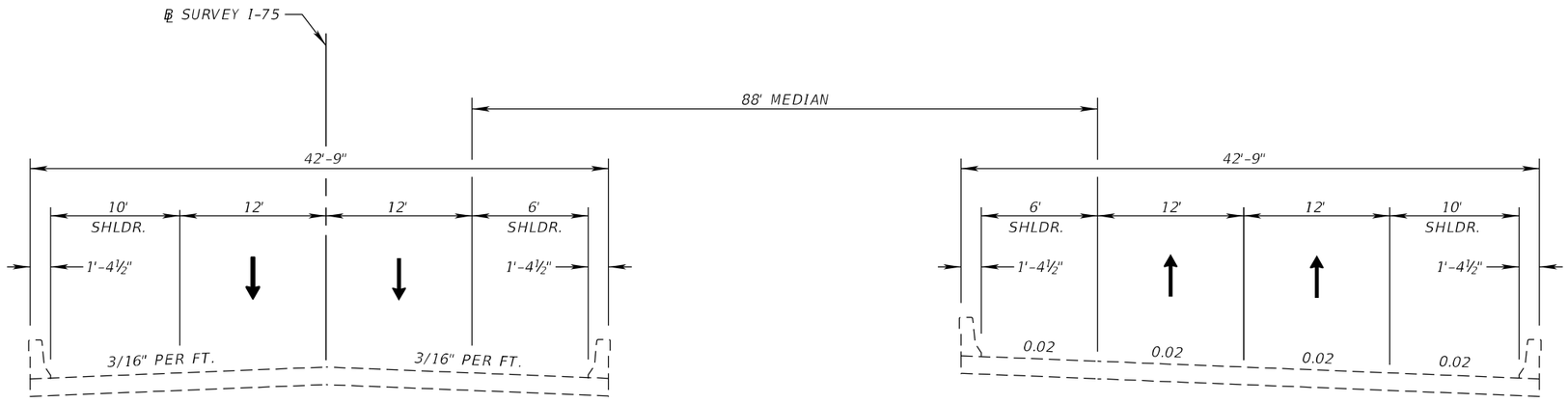
CRITERIA

( )	NEW CONSTRUCTION / RECONSTRUCTION
(X)	RESURFACING (LA FACILITIES)
( )	RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 2



SOUTHBOUND BRIDGE NUMBERS

030001 030002, 03007, 030012, 030021, 030023, 030027, 030028, 030029, 030030, 030234, 030247, 030249, 030261, 030263, 030264, 030267, 030269, 030271, 030274, 030277, 030284

NORTHBOUND BRIDGE NUMBERS

030223, 030229, 030230, 030233, 030241, 030243, 030245, 030252, 030255, 030258, 030265, 030266, 030268, 030272, 030273, 030275, 030276, 030281, 030282, 030283

SR 93 (I-75) - BRIDGES

NEW PAVEMENT MARKINGS ONLY

NOT TO SCALE

TRAFFIC DATA

CURRENT YEAR = 2020 AADT = 25600
ESTIMATED OPENING YEAR = 2022 AADT = 26600
ESTIMATED DESIGN YEAR = 2042 AADT = 37300
K = 9.0% D = 54.6% T = 18.1% (24 HOUR)
DESIGN HOUR T = 9.05%
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID	SHEET NO.
444008-1-52-01	3

PROJECT CONTROLS

CONTEXT CLASSIFICATION

( )	C1 : NATURAL	( )	C3C : SUBURBAN COMM.
( )	C2 : RURAL	( )	C4 : URBAN GENERAL
( )	C2T : RURAL TOWN	( )	C5 : URBAN CENTER
( )	C3R : SUBURBAN RES.	( )	C6 : URBAN CORE
(X)	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

(X)	INTERSTATE	( )	MAJOR COLLECTOR
( )	FREEWAY/EXPWY.	( )	MINOR COLLECTOR
( )	PRINCIPAL ARTERIAL	( )	LOCAL
( )	MINOR ARTERIAL		

HIGHWAY SYSTEM

(X)	NATIONAL HIGHWAY SYSTEM
(X)	STRATEGIC INTERMODAL SYSTEM
(X)	STATE HIGHWAY SYSTEM
( )	OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

(X)	1 - FREEWAY
( )	2 - RESTRICTIVE w/Service Roads
( )	3 - RESTRICTIVE w/660 ft. Connection Spacing
( )	4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( )	5 - RESTRICTIVE w/440 ft. Connection Spacing
( )	6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( )	7 - BOTH MEDIAN TYPES

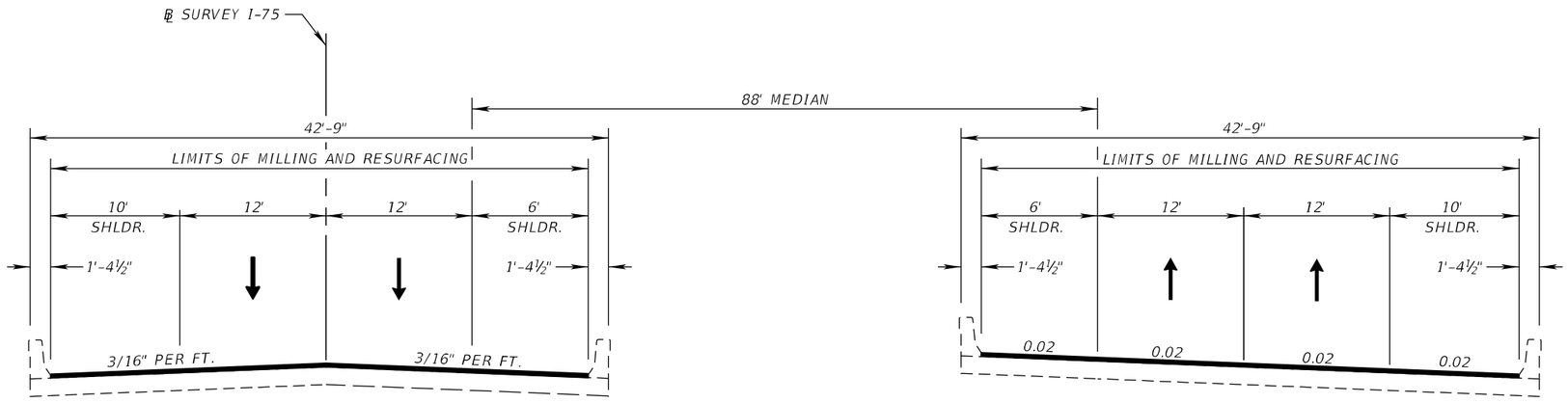
CRITERIA

( )	NEW CONSTRUCTION / RECONSTRUCTION
(X)	RESURFACING (LA FACILITIES)
( )	RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 3



SOUTHBOUND BRIDGE NUMBERS

030003, 030005, 030006, 030011, 030215, 030216, 030221, 030224, 030226, 030228, 030231, 030240, 030242, 030244, 030251, 030253, 030257, 030259, 030279

NORTHBOUND BRIDGE NUMBERS

030214, 030217, 030218, 030219, 030220, 030222, 030225, 030227, 030232, 030235, 030239, 030246, 030248, 030250, 030254, 030256, 030260, 030262, 030270, 030278, 030280

SR 93 (I-75) - BRIDGES

NOT TO SCALE

TRAFFIC DATA

CURRENT YEAR = 2020 AADT = 25600
ESTIMATED OPENING YEAR = 2022 AADT = 26600
ESTIMATED DESIGN YEAR = 2042 AADT = 37300
K = 9.0% D = 54.6% T = 18.1% (24 HOUR)
DESIGN HOUR T = 9.05%
DESIGN SPEED = 70 MPH
POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID	SHEET NO.
444008-1-52-01	4

Appendix H

Draft Review Comment/Responses

Submittal Report

Financial Project:	444008-1-32-01	Submittal Type:	PAVEMENT DESIGN
Submittal Phase:	OTHER	Submittal Staff Type:	CONSULTANT
Received Date:	5/5/2020	Response Due Date:	7/3/2020
Grace Period:	0	District:	FIRST
Status:	OPEN	Create Date:	5/5/2020
Create User Id:	RD158PS	Last Update:	5/5/2020
		Last Update User Id:	RD158PS

Description:

Pavement Design Report // 444008-1-32-01 // I-75 (SR 93) FROM BROWARD COUNTY LINE TO TOLL BOOTH (Collier)

County: Collier
Roadway ID: 03175000

Roadway Side Lanes MP From/To Section Work Length
LEFT RDWY 2 0.063 / 24.325 24.262
RIGHT RDWY 2 6.335 / 24.325 17.990
LEFT RDWY 2 24.325 / 35.601 11.276
RIGHT RDWY 2 24.325 / 35.601 11.276
RIGHT RDWY 2 35.601 / 42.144 6.543
LEFT RDWY 2 37.737 / 41.912 4.175
LEFT RDWY 2 41.912 / 48.845 6.933
RIGHT RDWY 2 42.144 / 49.012 6.868
LEFT RDWY 2 48.845 / 49.102 0.257

Work Length: 49.039
Project Length: 49.039

Threads:

Name	Assignment	Due Date	Status	Comments
Chris Coughlin	LEAD REVIEWER	6/26/2020	ACTIVE	10

No	Status	Current Holder	Reference	Categories
1	RESPONSE SUBMITTED	Chris Coughlin	Cover Page	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Begin Project milepost varies from that identified in FM System. Please review. Coordinate with FDOT Project Manager if milepost in FM System needs to be revised.

Ken Muzyk	6/29/2020	1	

The FDOT PM will update the mp's in the FM System and they recently changed to move the end project to the west side of the Collier toll plaza. The final pavement design will include the new mp's.

No	Status	Current Holder	Reference	Categories
2	RESPONSE SUBMITTED	Chris Coughlin	Table of Contents	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Per FM System & SLD, the County Section No. is 03175 & the Roadway ID is 03175000. Please review all throughout package.

Ken Muzyk	6/29/2020	1	

We will change the County Section No. to 03175 & the Roadway ID to 03175000.

No	Status	Current Holder	Reference	Categories
3	RESPONSE SUBMITTED	Chris Coughlin	Page 3 / Design Summary Sheet - Design Seq. No. 1	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Begin Mileposts on all Design Summary Sheets differs from the Cover Sheet. Please review.

Created By	Created On	Version	Delegate For
Ken Muzyk	6/29/2020	1	

The begin mp will change to 0.063 and the end mp will change to 49.282 throughout the report.

No	Status	Current Holder	Reference	Categories
4	RESPONSE SUBMITTED	Chris Coughlin	Page 5 / Design Summary Sheet - Design Seq. No. 3	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Acknowledged the proposed Type SP layering is in accordance with layering sequence depicted in Table 5.11 of the Flexible Pavement Design Manual. Provided the top structural lift for all other proposed resurfacing designs is 1.5", was consideration given to calling for 3-1.5" lifts of Type SP such that the top structural lift may be uniformly placed across all lanes?

Created By	Created On	Version	Delegate For
Ken Muzyk	6/29/2020	1	

Agree, we will revise to 3" for the first lift and 1.5" for the second lift.

No	Status	Current Holder	Reference	Categories
5	RESPONSE SUBMITTED	Chris Coughlin	Page 8 / Design Summary Sheet - Design Seq. No. 6	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

An average milling depth of 1.5" is called for & used in the proposed structural calculations. Please review reference calling for a 1" mill in the Resurfacing Pavement Design.

Created By	Created On	Version	Delegate For
Ken Muzyk	6/29/2020	1	

We will revise the reference from 1" to 1.5" milling.

No	Status	Current Holder	Reference	Categories
6	RESPONSE SUBMITTED	Chris Coughlin	Page 9 / Design Summary Sheet - Design Seq. No. 7	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Acknowledged the proposed shoulder pavement design meets minimum shoulder design criteria as outlined in Chapter 8 of the Flexible Pavement Design Manual. That being said, Section 6.3 requires the strength of the widened section base material match or exceed the existing base strength. From the top of the existing base down, the widening structural number must be equal to or greater than the existing structural number. Coring data indicates more than 10" of limerock base. Please clarify why OBG 1 (4") is proposed instead of OBG 9, 10, or 11.

Created By	Created On	Version	Delegate For
Ken Muzyk	6/29/2020	1	

The unusually thick existing shoulder base appears to be related to the original contractor electing to place a full depth shoulder base. Matching the base thickness for the shoulder widening would be excessive and not cost effective. The proposed shoulder widening base thickness meets the minimum SN and thickness.

The requirement in FPDM Chapter 6 to match the existing base thickness is provided for the travel lanes and does not appear to address widening the paved shoulders which is an unusual occurrence. Chapter 8 does not appear to address shoulder widening.

No	Status	Current Holder	Reference	Categories
7	RESPONSE SUBMITTED	Chris Coughlin	Page 9 / Design Summary Sheet - Design Seq. No. 7	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Per Chapter 8 of the Flexible Pavement Design Manual, when paved shoulders 5'-wide, or less, are to be constructed in conjunction with roadway resurfacing, the top layer of structural course of the roadway & adjacent shoulder are to be constructed in one pass with the same traffic level mix. The Typical Details provided in Appendix F indicate 4'-wide inside paved shoulders. Please review.

Created By	Created On	Version	Delegate For
Ken Muzyk	6/29/2020	1	

The completed median paved shoulder will be 10' wide when complete with 1.5" Type SP as the only structural course lift on both the resurfaced 4' shoulder and the 6' shoulder widening and expect they will be paved together in one pass. The paved shoulder will be paved separately from the adjacent travel lanes.

No	Status	Current Holder	Reference	Categories
8	RESPONSE SUBMITTED	Chris Coughlin	Page 10 / Pavement Design Notes	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Note 1: Please clarify why Mileposts are not oriented from South to North, as stationing indicates.

Ken Muzyk 6/29/2020 1

This section of I-75 runs east/west and the original B/L survey stationing runs from west to east and opposite to the mileposts which are oriented with the route direction (north/south or west to east in this case).

The plans are oriented in the stationing direction (west to east).

No	Status	Current Holder	Reference	Categories
9	RESPONSE SUBMITTED	Chris Coughlin	Page 10 / Pavement Design Notes	PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Note 1 - Northbound Travel Lane (MP 8.456 To MP 8.083): Per the Design Summary Sheet for Design Sequence No. 2, the 6.25" mill is limited to the NB outside lane, from MP 8.083 to MP 8.167. Please review.

Ken Muzyk 6/29/2020 1

The MP will be changed to 8.167.

No	Status	Current Holder	Reference	Categories
10	RESPONSE SUBMITTED	Chris Coughlin		PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Chris Coughlin	6/26/2020	1	

Attached is the marked-up Pavement Design Package for your reference.

Please feel free to contact me if you want to discuss any of the comments.
Chris Coughlin, P.E.
Florida Department of Transportation D1
Chris.Coughlin@dot.state.fl.us
(Phone) 863-519-2525

Ken Muzyk 6/29/2020 1

Thank you for your review.

Name	Assignment	Due Date	Status	Comments
Ken Muzyk	CONSULTANT PROJECT MANAGER	7/3/2020	ACTIVE	0
Marlene Hebert	LEAD REVIEWER	6/26/2020	ACTIVE	0*
Sean Pugh	IN-HOUSE PROJECT MANAGER	6/26/2020	ACTIVE	0
Vincent Collie	LEAD REVIEWER	6/26/2020	ACTIVE	1

No	Status	Current Holder	Reference	Categories
11	COMMENT SUBMITTED FOR RESPONSE	Ken Muzyk		PAVEMENT DESIGN

Created By	Created On	Version	Delegate For
Vincent Collie	6/26/2020	1	

Please attach the updated pavement design to this comment with the ERC comments addressed. We will attach the QC Checklist as a response to the updated pavement design.