

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
PAVEMENT EVALUATION CORING AND CONDITION DATA

Cored By: HighSpans Engineering, Inc.

Coring Completion Date: 3/31/2023

Typical Section: 1: Mainline (13030000)

W.P.I. No.:	Name: SR 45 (US 41)	Lanes: 4 Lane Urban Principal Arterial Roadway / 2 Lane Each Direction
Fin. Proj. ID: 449114-1	From: N of SR 70 (US 19)	Shoulder Type and Condition:
F.A. Project No.:	To: N of 69th St. E	Inside: N/A
County: Manatee	Beg MP: 2.238	End MP: 4.801
Roadway ID: 13030000	Length: 2.563	Outside: Paved
SR No.: 45	Median Curbed (Y/N): N	Paved
Overall Pavement Condition (from DMO field review): Fair	Lawn (Y)	Other:
		Curb & Gutter (Y/N): Inside: N; Outside: N

**Mainline and Bridge Cores (ML / BR)**

CORE NO.	MILE POST <sup>2</sup>	LANE TYPE	LANE	WP (Y/N)	PAVEMENT LAYER (IN.)										TOTAL ASPHALT THICKNESS (IN.)	BASE				STABILIZED SUBGRADE <sup>3</sup>	CRACK				PAVEMENT CONDITION	COMMENTS		
					FC5	SP9.5	S2	BIND	S									LR	SHEL		ABC-2	CONC	DEPTH (IN.)	TYPE			CLASS	EXTENT
1	2.520	ML	R1	Y	0.6	1.2		1.8							3.6	7.6				16.0					F			
2	2.833	ML	R2	N	0.9	1.6		0.8							3.3	11.0									F			
3	3.531	ML	R2	N	0.8	1.5		1.0							3.3	10.2				16.0					F			
4	3.766	ML	R1	Y	0.5	1.6		1.7							3.8	9.9					3.8	C	II	M	P			
5	4.318	ML	R1	Y	0.7	1.9		1.1							3.7	10.7					3.7	A	II	M	P			
6	4.517	ML	R2	Y	0.9	3.1		0.9							4.9	10.1									F			
7	4.668	ML	L1	Y	0.9	2.7		1.7							5.3	9.0									F			
8	4.619	ML	L2	N	0.7	2.8									3.5	9.6									F			
9	3.676	ML	L2	Y	1.0	3.4									4.4	7.9									F			
10	3.210	ML	L1	Y	0.9	1.6	1.5								4.0	9.8				16.0					F			
11	2.797	ML	L2	Y	1.0	2.0		1.8							4.8	9.9									F			
12	2.682	ML	L1	Y	0.9	1.1		2.1							4.1	8.5	12.0								F	Two distinct base layers: LR over SHEL		
27	3.440	BR	L2	Y	0.8	1.3		1.2							3.3										F	BR #0005 approach slab		
28	3.392	BR	L1	N	0.6	1.3		1.1							3.0						3.0	C	II	M	P	BR #0005 departure slab		
29	3.377	BR	R1	Y	0.9	1.2		0.9							3.0										F	BR #0026 approach slab		
30	3.422	BR	R2	N	1.0	1.2	1.4								3.6										F	BR #0026 departure slab		
31	2.283	ML	R2	Y	0.8	1.2	1.5								3.5	8.9					3.5	C	III	S	P	DMO Photo 2, transverse cracking		
32	2.763	ML	R2	Y	1.0	2.9									3.9	10.1					3.4	A	III	S	P	DMO Photo 3, alligator trcking		
33	3.152	ML	R2	N	0.7	2.4	1.2								4.3	8.6					4.3	C	III	S	P	DMO Photo 4, longitudinal cracking		
34	2.672	ML	L1	N	0.7	2.0		2.1							4.8	8.1					4.8	C	III	S	F	DMO Photo 5, transverse cracking		
35	4.247	ML	L2	Y	0.6	3.8									4.4	11.1					4.4	C	II	M	P	DMO Photo 6, longitudinal cracking		
36	4.448	ML	R2	N	1.0	3.1		1.4							5.5	11.5									F	Culvert BR #0099 (4.448-4.453)		
<b>AVERAGE</b>					<b>0.81</b>	<b>2.04</b>	<b>1.40</b>	<b>1.40</b>							<b>4.00</b>	<b>9.58</b>	<b>12.00</b>			<b>16.00</b>	<b>3.86</b>							
<b>MAX</b>					<b>1.00</b>	<b>3.80</b>	<b>1.50</b>	<b>2.10</b>							<b>5.50</b>	<b>11.50</b>	<b>12.00</b>			<b>16.00</b>	<b>4.80</b>							
<b>MIN</b>					<b>0.50</b>	<b>1.10</b>	<b>1.20</b>	<b>0.80</b>							<b>3.00</b>	<b>7.60</b>	<b>12.00</b>			<b>16.00</b>	<b>3.00</b>							
<b>LAYER COEF.</b>					<b>0.00</b>	<b>0.25</b>	<b>0.25</b>	<b>0.20</b>	<b>0.25</b>							<b>0.18</b>	<b>0.18</b>	<b>0.16</b>	<b>UNKW</b>	<b>0.08</b>								

Notes:

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2. Mile posts are approximate based on field recorded measurements using a Distance Measuring Instrument (DMI) or a GPS unit.
3. Stabilization thickness was checked on 10% of the coring locations. For pavement design, assume 12 inches of thickness for stabilization.
4. The cross slope is approximate and measured in the center of the lane.
5. A blank cell indicates measurement was not recorded.
6. A value of "UNK" indicates material was encountered but the total thickness was not determined.

<u>Lane Designations - Decreasing MP</u> OL/IL - Outside/Inside Shoulder L1 - 1st Lane Left of Centerline LL/LR - Left/Right Turn Lane	<u>Lane Designations - Increasing MP</u> OR/IR - Outside/Inside Shoulder R1 - 1st Lane Right of Centerline RL/RR - Left/Right Turn Lane	<u>Lane Type</u> ML - Mainline TL - Turn Lane CO - Crossover	<u>Lane Type</u> S - Shoulder SS - Side Street BR - Bridge Approach/Departure	<u>Crack Type</u> A - Alligator B - Block C - Combination	<u>Crack Rating</u> Class IB - Hairline cracks that are ≤ 1/8 inch wide Class II - Cracks > than 1/8 inch and ≤ 1/4 inch Class III - Cracks > 1/4 inch	<u>Extent</u> L - Light M - Moderate S - Severe	<u>Pavement Condition</u> G - Good F - Fair P - Poor
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**PAVEMENT EVALUATION CORING AND CONDITION DATA**

Cored By: HighSpans Engineering, Inc.

Coring Completion Date: 3/31/2023

Typical Section: 1: Mainline (13030000)

W.P.I. No.:	Name: SR 45 (US 41)	Lanes: 4 Lane Urban Principal Arterial Roadway / 2 Lane Each Direction
Fin. Proj. ID: 449114-1	From: N of SR 70 (US 19)	Shoulder Type and Condition:
F.A. Project No.:	To: N of 69th St. E	Inside: N/A
County: Manatee	Beg MP: 2.238	End MP: 4.801
Roadway ID: 13030000	Length: 2.563	Outside: Paved
SR No.: 45	Median Curbed (Y/N): N	Paved
Overall Pavement Condition (from DMO field review): Fair	Lawn (Y)	Other:
		Curb & Gutter (Y/N): Inside: N; Outside: N

**Turn Lane Cores (TL)**

CORE NO.	MILE POST <sup>2</sup>	LANE TYPE	LANE	WP (Y/N)	PAVEMENT LAYER (IN.)										TOTAL ASPHALT THICKNESS (IN.)	BASE				STABILIZED SUBGRADE <sup>3</sup>	CRACK				PAVEMENT CONDITION	COMMENTS		
					FC5	SP9.5	S2	BIND	S								LR	SHEL	ABC-2		CONC	DEPTH (IN.)	TYPE	CLASS			EXTENT	
41	2.572	TL	RL	Y	1.0	1.0		1.6							3.6	8.2					2.2	C	II	L	P			
42	2.753	TL	LL	N	0.9	1.0	0.6	1.5							4.0	11.7									F	Bottom-up crack		
43	2.844	TL	RR	N	0.8	0.8	0.8	1.2							3.6	10.9									F			
44	2.927	TL	LR	Y	0.6	1.1		1.9							3.6	8.9									F			
45	3.136	TL	RL	N	1.5	1.8	1.2								4.5	10.5					2.3	C	II	L	F			
46	3.682	TL	RR	Y	0.9	1.0		1.0							2.9	14.0									F			
47	3.742	TL	LL	N	1.2	2.0	0.9								4.1	8.9									F			
48	3.875	TL	RL	Y	0.9	0.9	2.4								4.2	8.7									F			
49	3.944	TL	LR	N	1.0	1.3	1.3								3.6	8.9									F			
50	4.195	TL	LR	Y	0.9	2.6									3.5	9.9									F			
51	4.745	TL	RR	Y	0.6	1.3	0.9								2.8	10.5					24.0	2.8	C	III	M	F	Possible widening joint crack.	
52	4.741	TL	LR	Y	1.0	3.1			5.4						9.5	10.2					2.9	C	II	L	P	Separation in SP-layer.		
53	3.760	TL	LR	N	0.9	1.2	1.8								3.9	9.2									F			
54	3.176	TL	LR	Y	0.8	1.1		1.5							3.4	11.1									F			
55	2.934	TL	LL	N	1.0	1.3	0.9								3.2	11.3									F			
<b>AVERAGE</b>					<b>0.93</b>	<b>1.43</b>	<b>1.20</b>	<b>1.45</b>	<b>5.40</b>					<b>4.03</b>	<b>10.19</b>					<b>24.00</b>	<b>2.55</b>							
<b>MAX</b>					<b>1.50</b>	<b>3.10</b>	<b>2.40</b>	<b>1.90</b>	<b>5.40</b>					<b>9.50</b>	<b>14.00</b>					<b>24.00</b>	<b>2.90</b>							
<b>MIN</b>					<b>0.60</b>	<b>0.80</b>	<b>0.60</b>	<b>1.00</b>	<b>5.40</b>					<b>2.80</b>	<b>8.20</b>					<b>24.00</b>	<b>2.20</b>							
<b>LAYER COEF.</b>					<b>0.00</b>	<b>0.25</b>	<b>0.25</b>	<b>0.20</b>	<b>0.25</b>							<b>0.18</b>	<b>0.18</b>	<b>0.16</b>	<b>UNKW</b>	<b>0.08</b>								

Notes:

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<u>Lane Designations - Decreasing MP</u> OL/IL - Outside/Inside Shoulder L1 - 1st Lane Left of Centerline LL/LR - Left/Right Turn Lane	<u>Lane Designations - Increasing MP</u> OR/IR - Outside/Inside Shoulder R1 - 1st Lane Right of Centerline RL/RR - Left/Right Turn Lane	<u>Lane Type</u> ML - Mainline TL - Turn Lane CO - Crossover	<u>Lane Type</u> S - Shoulder SS - Side Street BR - Bridge Approach/Departure	<u>Crack Type</u> A - Alligator B - Block C - Combination	<u>Crack Rating</u> Class IB - Hairline cracks that are ≤ 1/8 inch wide Class II - Cracks > than 1/8 inch and ≤ 1/4 inch Class III - Cracks > 1/4 inch	<u>Extent</u> L - Light M - Moderate S - Severe	<u>Pavement Condition</u> G - Good F - Fair P - Poor
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F.A. Project No.:	To: N of 69th St. E	Inside: N/A
County: Manatee	Beg MP: 2.238	End MP: 4.801
Roadway ID: 13030000	Length: 2.563	Outside: Paved
SR No.: 45	Median Curbed (Y/N): N	Paved
Overall Pavement Condition (from DMO field review): Fair	Lawn (Y)	Other:
		Curb & Gutter (Y/N): Inside: N; Outside: N

**Shoulder, Gore, and Crossover Cores (S / GO / CO)**

CORE NO.	MILE POST <sup>2</sup>	LANE TYPE	LANE	WP (Y/N)	PAVEMENT LAYER (IN.)										TOTAL ASPHALT THICKNESS (IN.)	BASE				STABILIZED SUBGRADE <sup>3</sup>	CRACK				PAVEMENT CONDITION	COMMENTS	
					FC5	SP9.5	S2	BIND	S								LR	SHEL	ABC-2		CONC	DEPTH (IN.)	TYPE	CLASS			EXTENT
13	2.578	S	OR	N	0.6	5.1									5.7	2.0				24.0					F		
14	3.308	GO	GO	N	1.0	1.8									2.8	5.9									F	OR-Gore.	
16	4.563	S	OL	N	0.9	2.2									3.1			3.4							F		
17	3.616	GO	GO	N	1.1	1.2									2.3	4.5									F	OL-Gore.	
18	2.748	S	OL	N	0.8	3.3									4.1			3.1							F		
37	2.613	CO	CO	N	0.7	1.3		1.1							3.1	8.5									F		
38	3.142	CO	CO	N	1.5	1.3	1.5								4.3	15.0									F		
39	3.941	CO	CO	N	0.9	2.1		1.2							4.2	7.0				3.7	C	II	L		P		
40	4.530	CO	CO	N	1.6	1.1		1.1							3.8	12.4				17.0					F		
62	4.328	S	OR	N	0.5	2.5									3.0			2.6							F	Replaced core 15	
<b>AVERAGE</b>					<b>0.96</b>	<b>2.19</b>	<b>1.50</b>	<b>1.13</b>							<b>3.64</b>	<b>7.90</b>		<b>3.03</b>		<b>20.50</b>	<b>3.70</b>						
<b>MAX</b>					<b>1.60</b>	<b>5.10</b>	<b>1.50</b>	<b>1.20</b>							<b>5.70</b>	<b>15.00</b>		<b>3.40</b>		<b>24.00</b>	<b>3.70</b>						
<b>MIN</b>					<b>0.50</b>	<b>1.10</b>	<b>1.50</b>	<b>1.10</b>							<b>2.30</b>	<b>2.00</b>		<b>2.60</b>		<b>17.00</b>	<b>3.70</b>						
<b>LAYER COEF.</b>					<b>0.00</b>	<b>0.25</b>	<b>0.25</b>	<b>0.20</b>	<b>0.25</b>							<b>0.18</b>	<b>0.18</b>	<b>0.16</b>	<b>UNKW</b>	<b>0.08</b>							

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Coring Completion Date: 3/31/2023

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F.A. Project No.:		Roadway ID:	13030000			To:	N of 69th St. E							
County:	Manatee	SR No.:	45			Beg MP:	2.238	End MP:	4.801	Length:	2.563	Outside:	Paved	
Overall Pavement Condition (from DMO field review):					Fair	Median Curbed (Y/N):	N	Paved	Lawn (Y)	Other:		Curb & Gutter (Y/N): Inside: N; Outside: N		

**Side Street Cores (SS)**

CORE NO.	MILE POST <sup>2</sup>	LANE TYPE	LANE	WP (Y/N)	PAVEMENT LAYER (IN.)										TOTAL ASPHALT THICKNESS (IN.)	BASE				STABILIZED SUBGRADE <sup>3</sup>	CRACK				PAVEMENT CONDITION	COMMENTS
					FC5	SP9.5	S2	BIND	S									LR	SHEL		ABC-2	CONC	DEPTH (IN.)	TYPE		
19	2.887	SS	NA	N	1.2	2.3									3.5	16.1							F	49th St. E.		
20	3.726	SS	NA	Y	1.2	1.6	1.0								3.8	8.8							F	16th Ave. E.		
21	3.899	SS	NA	N	0.5	1.2		1.4							3.1	10.1							F	Palm View Rd.		
22	4.786	SS	NA	Y	0.2	2.4									2.6	8.1							P	73rd St. E.		
<b>AVERAGE</b>					<b>0.78</b>	<b>1.88</b>	<b>1.00</b>	<b>1.40</b>							<b>3.25</b>	<b>10.78</b>					<b>24.00</b>	<b>2.70</b>				
<b>MAX</b>					<b>1.20</b>	<b>2.40</b>	<b>1.00</b>	<b>1.40</b>							<b>3.80</b>	<b>16.10</b>					<b>24.00</b>	<b>3.00</b>				
<b>MIN</b>					<b>0.20</b>	<b>1.20</b>	<b>1.00</b>	<b>1.40</b>							<b>2.60</b>	<b>8.10</b>					<b>24.00</b>	<b>2.40</b>				
<b>LAYER COEF.</b>					<b>0.00</b>	<b>0.25</b>	<b>0.25</b>	<b>0.20</b>	<b>0.25</b>							<b>0.18</b>	<b>0.18</b>	<b>0.16</b>	<b>UNKW</b>	<b>0.08</b>						

Notes:

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**PAVEMENT EVALUATION CORING AND CONDITION DATA**

Cored By: HighSpans Engineering, Inc.

Coring Completion Date: 3/31/2023

Typical Section: **2: Ramps (13030-: -051, -052, -102)**

W.P.I. No.:		Name:	SR 45 (US 41)			Lanes:	1-2 Lane Ramps							
Fin. Proj. ID:	449114-1	From:	N of SR 70 (US 19)			Shoulder Type and Condition:								
F.A. Project No.:		Roadway ID <sup>7</sup> :	13030000			To:	N of 69th St. E							
County:	MANATEE	SR No.:	45			Beg MP:	2.238	End MP:	4.801	Length:	2.563	Inside:	Paved	
Overall Pavement Condition (from DMO field review):					Fair	Median Curbed (Y/N):	N	Paved	Lawn (Y)	Other:		Curb & Gutter (Y/N): Inside: N; Outside: N		

**Ramps: All Cores**

CORE NO.	MILE POST <sup>2</sup>	LANE TYPE	LANE	WP (Y/N)	PAVEMENT LAYER (IN.)										TOTAL ASPHALT THICKNESS (IN.)	BASE			STABILIZED SUBGRADE <sup>3</sup>	CRACK				PAVEMENT CONDITION	COMMENTS
					FC5	FC9.5	SP9.5	S	BIND								LR	ABC-2			DEPTH (IN.)	TYPE	CLASS		
23	2.603	S	OL	N	0.8		2.3								3.1		2.3					F	13030102 SB		
24	2.603	ML	L2	N	0.6		2.3		2.3					5.2	8.8			24.0	3.5	B	III	S	P	13030102 SB	
25	2.603	ML	L1	Y	0.5		1.2		2.0					3.7	7.0				3.7	C	III	L	P	13030102 SB, roots in core	
26	2.603	S	IL	N	0.9		4.1							5.0	8.0							F	13030102 SB		
56	2.603	S	OL	N	0.9		1.1							2.0	7.1				2.0	B	II	M	P	13030052 SB 13030102 OFF	
57	2.603	ML	L1	Y	0.8		3.7							4.5	10.0				4.5	A	II	S	P	13030052 SB 13030102 OFF	
58	2.603	S	IL	N		0.7								0.7		0.7						P	13030052 SB 13030102 OFF		
61	2.393	ML	R1	N	1.1		1.5		1.8					4.4	7.6							F	13030051 NB OFF replaced core 59		
63	2.393	S	OR	N	0.6		3.4	3.8						7.8	6.3							P	13030051 NB OFF replaced core 60		
<b>AVERAGE</b>					<b>0.78</b>	<b>0.70</b>	<b>2.45</b>	<b>3.80</b>	<b>2.03</b>					<b>4.04</b>	<b>7.83</b>	<b>1.50</b>		<b>24.00</b>	<b>3.43</b>						
<b>MAX</b>					<b>1.10</b>	<b>0.70</b>	<b>4.10</b>	<b>3.80</b>	<b>2.30</b>					<b>7.80</b>	<b>10.00</b>	<b>2.30</b>		<b>24.00</b>	<b>4.50</b>						
<b>MIN</b>					<b>0.50</b>	<b>0.70</b>	<b>1.10</b>	<b>3.80</b>	<b>1.80</b>					<b>0.70</b>	<b>6.30</b>	<b>0.70</b>		<b>24.00</b>	<b>2.00</b>						
<b>LAYER COEF.</b>					<b>0.00</b>	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>	<b>0.20</b>						<b>0.18</b>	<b>0.16</b>		<b>0.08</b>							

Notes:

1. The data presented on this table is specific only at the locations cored at the time of the investigation. Should questions arise regarding the pavement composition, it is incumbent upon those raising the question to perform additional exploration as necessary.
2. Mile posts are approximate based on field recorded measurements using a Distance Measuring Instrument (DMI) or a GPS unit.
3. Stabilization thickness was checked on 10% of the coring locations. For pavement design, assume 12 inches of thickness for stabilization.
4. The cross slope is approximate and measured in the center of the lane.
5. A blank cell indicates measurement was not recorded.
6. A value of "UNK" indicates material was encountered but the total thickness was not determined.
7. Interchange ramp roadway ID numbers and travel directions are provided in the comments.

<u>Lane Designations - Decreasing MP</u> OL/IL - Outside/Inside Shoulder L1 - 1st Lane Left of Centerline LL/LR - Left/Right Turn Lane	<u>Lane Designations - Increasing MP</u> OR/IR - Outside/Inside Shoulder R1 - 1st Lane Right of Centerline RL/RR - Left/Right Turn Lane	<u>Lane Type</u> ML - Mainline TL - Turn Lane CO - Crossover S - Shoulder SS - Side Street BR - Bridge Approach/Departure	<u>Crack Type</u> A - Alligator B - Block C - Combination	<u>Crack Rating</u> Class IB - Hairline cracks that are ≤ 1/8 inch wide Class II - Cracks > than 1/8 inch and ≤ 1/4 inch Class III - Cracks > 1/4 inch	<u>Extent</u> L - Light M - Moderate S - Severe	<u>Pavement Condition</u> G - Good F - Fair P - Poor
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