



Ardaman & Associates, Inc.

Geotechnical, Environmental and
Materials Consultants

September 18, 2012
File No. 12-5897

Florida Department of Transportation
1650 N. Kepler Road
DeLand, Florida 32724

Attention: Mr. Tim Keefe

Subject: Final Pavement Evaluation and Condition Data Report
SR 400 (I-4) from Osceola County Line to East of SR 536
MP 0.000 to MP 1.740
Seminole County, Florida
FPN: 429079-1
Section No.: 75280
Contract No. C8S59

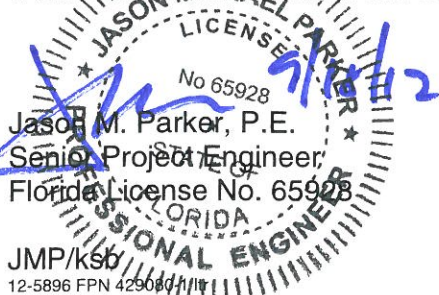
Dear Mr. Keefe,

As requested, we have obtained pavement core and other relative information for the subject project. Our scope of work was conducted in accordance with your request for proposal issued, May 2, 2012.

The pavement core data is presented on the attached Pavement Evaluation and Condition Data (PECD) Sheets 1 through 4. We have also included a CD containing the PECD excel file and roadway and core photographs. To the best of our knowledge, the information presented is accurate and represents the existing pavement conditions at the locations cored. The cores have been retained in storage awaiting instructions from FDOT concerning their disposal.

Please contact us if you have any questions or need any additional information.

Very truly yours,
ARDAMAN AND ASSOCIATES, INC.
Certificate of Authorization No. 5950


Jason M. Parker, P.E.
Senior Project Engineer
Florida License No. 65928
JMP/ksb
12-5896 FPN 429079-1

**State of Florida Department of Transportation
PAVEMENT EVALUATION AND CONDITION DATA SHEET**

Project No.:		429079-1		Cored By:		Ardaman		Date:		5/22/2012		Page No.:		1 of 4							
County:		Orange		Highway Sect. No.:		75280		From:		Osceola County Line		To:		East of SR 536							
Road No.:		SR 400 (I-4)		Begin MP:		0.000		End MP:		1.740		Length:		1.74							
Core No.	MP	Distance from left edge of lane (ft.)	Lane	Wheel Path	FC-5	Type-S	ARMI	Type-S	Type-I	Binder	ABC	Core Length (in)	Base			Crack	Pavt Cond.	Rnt Depth (in)	Cross Slope (%)	Comments	
													Type-S	Type-I	Thick-ness (in)						Depth (in)
1	0.260	3.5	R3	X	0.8	1.9	0.6	5.9				9.2	LR	10.3	0.5	OGFC	I	L	F	Split Core at 4.0"	
2	0.263	3.0	OR			1.5						1.5	LR	9.8	B	BR	I	L	F		
3	0.385	4.0	IR			3.3			1.4			4.7	LR	9.5	---	---	---	---	F		
4	0.385	1.0	R1		0.5	2.0	0.5	2.5	5.0	2.0		12.5	LR	12.0	0.8	OGFC	I	L	F		
5	0.496	10.0	R3	X	0.5	1.5	0.7	1.3	2.8			6.8	LR	10.3	2.0	BR	III	L	F		
6	0.496	5.0	OR			1.5					4.5	10.5	ABC	4.5	---	---	---	---	F		
7	0.690	2.5	R4	X	1.0	2.0					9.0	21.0	ABC	9.0	0.3	OGFC	I	L	F	Split Core at 6.0"	
8	0.690	5.0	OR			1.3					4.6	8.3	ABC	2.4	---	---	---	---	F		
9	0.876	1.5	R4		0.7	2.0					8.9	18.0	ABC	6.4	0.4	OGFC	I	L	F	Split Core at 7.0'	
10	0.876	4.0	OR			1.5					3.7	7.1	ABC	1.9	---	---	---	---	F		
11	0.886	5.0	IR			3.0			2.1			5.1	LR	9.5	---	---	---	---	F		
12	0.886	2.0	R1	X	0.8	1.7	0.5	4.0	4.9	1.6		13.5	LR	11.5	0.8	OGFC	I	L	F		
13	1.076	3.5	R3	X	1.0	1.5	0.5	2.3	2.2			7.5	LR	10.3	1.0	OGFC	II	M	F	Split Core at 5.5'	
14	1.328	10.0	R3	X	0.8	5.2						6.0	LR	10.1	0.4	OGFC	I	L	F		
15	1.328	4.5	OR			2.0						2.0	LR	9.8	---	---	---	---	F		
16	1.388	5.0	IR			1.5			1.8			3.3	LR	8.9	---	---	---	---	F	Split Core at 2.0"	

Remarks: Crack Depth of "B" indicates full depth crack to the base. EOP = Edge of Pavement
 Crack Extent: L= Light; M= Moderate; S= Severe
 Pavement Condition: G= Good; F= Fair; P= Poor
 Crack Types: A= Alligator; B|= Block; Br= Branch
 SL= Single Longitudinal; ST= Single Transverse; R= Reflective; J= Joint; OGFC= Open-Graded FC Stress Crack
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State of Florida Department of Transportation

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County:		Orange		Highway Sect. No.:		75280		From:		Osceola County Line		To:		East of SR 536									
Road No.:		SR 400 (1-4)		Begin MP:		0.000		End MP:		1.740		Length:		1.74									
Core No.	MP	Distance from left edge of lane (ft.)	Lane	Wheel Path	FC-5	Type-S			Type-I	Binder	ABC	Core Length (ft)	Base			Crack			Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments	
						ARMI	Type-S	Type-S					Type	Thick-ness (in)	Depth (in)	Type	Class	Extent					
17	1.388	8.5	R1	X	0.6	3.4		2.8		2.0		8.8	LR	14.7	0.6	OGFC	I	L	F				
18	0.380	3.5	L1	X	0.9	1.9	0.2	4.3	5.5	1.5		14.3	LR	11.0	0.5	OGFC	I	L	F				
19	0.380	5.0	IL			2.8			4.7			7.5	LR	10.2	---	---	---	---	F				
20	0.280	10.0	L3	X	0.5	1.0	0.8	4.4				6.7	LR	10.2	0.5	OGFC	I	L	F				
21	0.650	4.0	OL			2.0					8.5	10.5	ABC	8.5	---	---	---	---	F				
22	0.650	8.5	L3	X	0.5	1.5	0.8	1.0	3.1			6.9	LR	10.0	0.5	OGFC	I	L	F				Split Core at 2.5
23	0.810	6.0	OL			1.8					4.0	7.7	ABC	1.9	---	---	---	---	F				
24	0.810	10.0	L4	X	1.0	1.8					9.0	20.8	ABC	9.0	0.4	OGFC	I	L	F				
25	0.811	2.0	L1	X	0.7	1.8	0.2	1.6	6.0	1.6		11.9	LR	10.3	0.3	OGFC	I	L	F				
26	0.811	5.0	IL			2.0			2.0			4.0	LR	9.8	---	---	---	---	F				
27	1.119	4.0	OL			1.7					4.5	10.7	ABC	4.5	---	---	---	---	F				
28	1.120	8.5	L4	X	0.7	1.8					9.5	21.5	ABC	9.5	0.7	OGFC	II	M	F				
29	1.247	3.5	L3	X	0.8	8.0						8.8	LR	10.1	0.5	OGFC	I	L	F				
30	1.480	1.0	L1		0.9	4.1			4.0	1.8		10.8	LR	10.0	0.4	OGFC	I	L	F				
31	1.479	3.5	IL			2.0			1.3			3.3	LR	10.1	---	---	---	---	F				
32	1.620	3.5	OL			2.4						2.4	LR	9.8	---	---	---	---	F				

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Road No.:		SR 400 (I-4)		Begin MP:		0.000		End MP:		1.740		Length:		1.74						
Core No.	MP	Distance from left edge of lane (ft.)	Lane	Wheel Path	FC-5					Base			Crack			Payt. Cond.	Rut Depth (in)	Cross Slope (%)	Comments	
					Type-S	ARMI	Type-S	Type-I	Binder	ABC	Core Length (ft)	Type	Thick-ness (in)	Depth (in)	Type					Class
33	1.621	10.0	L3	X	0.5	7.5					8.0	LR	10.1	0.5	OGFC	I	L	F	Ramp 75039-008. Distance Measured in Feet From Gore No. 4	
34	1056	9.5	Ramp	X	0.8	4.3					5.1	LR	9.8	0.3	OGFC	I	L	F	Ramp 75039-008. Distance Measured in Feet From Gore No. 4	
35	1057	4.0	Shoulder			1.7					1.7	LR	8.5	---	---	---	---	F	Ramp 75039-008. Distance Measured in Feet From Gore No. 4	
36	2640	9.5	Ramp	X	0.6	4.3					4.9	LR	10.1	0.2	OGFC	I	L	F	Ramp 75039-008. Distance Measured in Feet From Gore No. 4	
37	2647	2.5	Shoulder			1.2					1.2	LR	7.1	---	---	---	---	F	Ramp 75039-008. Distance Measured in Feet From Gore No. 4	
38	1057	10.0	Ramp	X	0.6	3.4					4.0	LR	9.8	0.3	OGFC	I	L	F	Ramp 75039-001. Distance Measured in Feet From Gore No. 5	
39	1066	3.0	Shoulder			2.3					2.3	LR	7.5	---	---	---	---	F	Ramp 75039-001. Distance Measured in Feet From Gore No. 5	
40	3960	10.5	Ramp	X	0.8	3.0					3.8	LR	9.5	0.4	OGFC	I	L	F	Ramp 75039-001. Distance Measured in Feet From Gore No. 5	
41	3971	2.5	Shoulder			1.4					1.4	LR	7.1	---	---	---	---	F	Ramp 75039-001. Distance Measured in Feet From Gore No. 5	
42	796	10.0	Ramp	X	0.9	4.1					5.0	LR	9.8	0.2	OGFC	I	L	F	Ramp 75039-004. Distance Measured in Feet From Gore No. 2	
43	802	2.0	Shoulder			1.5					1.5	LR	8.5	B	BR	I	L	F	Ramp 75039-004. Distance Measured in Feet From Gore No. 2	
44	2158	13.0	Ramp	X	0.7	2.6					3.3	LR	10.0	0.4	OGFC	I	L	F	Ramp 75280-127. Distance Measured in Feet From Gore No. 1	
45	2160	2.0	Shoulder			0.8	2.2				3.0	LR	8.5	0.3	OGFC	I	L	F	Ramp 75280-127. Distance Measured in Feet From Gore No. 1	
46	4540	12.0	Ramp	X	0.6	5.4					6.0	LR	8.1	0.4	OGFC	I	L	F	Ramp 75280-127. Distance Measured in Feet From Gore No. 1	
47	4550	2.0	Shoulder			2.6					2.6	LR	7.8	---	---	---	---	F	Ramp 75280-127. Distance Measured in Feet From Gore No. 1	
48	7206	12.0	Ramp	X	0.9	1.8					12.3	15.0	ABC	12.3	0.8	OGFC	I	L	F	Ramp 75280-127. Distance Measured in Feet From Gore No. 1

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Core No.	MP	Distance from left edge of lane (ft.)	Lane	Wheel Path	FC-5	Base				Crack			Payt. Cond.	Rut Depth (in)	Cross Slope (%)	Comments		
						Type-S	ARMI	Type-S	Type-I	Binder	ABC	Core Length (ft)					Type	Thick-ness (in)
49	7212	2.0	Shoulder								5.7	12.9	ABC	5.7	---	---	F	Ramp 75280-127. Distance Measured in Feet From Gore No. 1
50	1056	14.0	Ramp	X	0.7	4.7				5.1	15.6	ABC	5.1	0.7	OGFC	I	L	Ramp 92130-017. Distance Measured in Feet From MP 0.000
51	1062	4.0	Shoulder			2.0				3.3	8.6	ABC	3.3	---	---	---	F	Ramp 92130-017. Distance Measured in Feet From MP 0.000
52	1056	8.0	Ramp	X	1.0	4.2				5.2	LR	10.4	0.8	OGFC	I	L	F	Ramp 92130-019. Distance Measured in Feet From Gore No. 3
53	1067	3.0	Shoulder			1.4				1.4	LR	7.1	---	---	---	---	F	Ramp 92130-019. Distance Measured in Feet From Gore No. 3
54	3167	9.0	Ramp	X	0.7	3.7				4.4	LR	9.8	0.6	OGFC	I	L	F	Ramp 92130-019. Distance Measured in Feet From Gore No. 3
55	3176	3.5	Shoulder			1.6				1.6	LR	7.5	---	---	---	---	F	Ramp 92130-019. Distance Measured in Feet From Gore No. 3

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Supplemental Data to PECD

(GPS Coordinates for Each Locations Cored)

SR 400 FPN: 429079-1 County: Orange

Core #	GPS Coordinates	
1	N 28.350442	W -81.528648
2	N 28.350457	W -81.528589
3	N 28.351794	W -81.527575
4	N 28.351796	W -81.527530
5	N 28.352975	W -81.526366
6	N 28.352982	W -81.526324
7	N 28.355362	W -81.524180
8	N 28.355361	W -81.524146
9	N 28.357278	W -81.522456
10	N 28.357267	W -81.522439
11	N 28.357447	W -81.522453
12	N 28.357484	W -81.522466
13	N 28.359547	W -81.520471
14	N 28.362453	W -81.517865
15	N 28.362446	W -81.517832
16	N 28.363151	W -81.517338
17	N 28.363199	W -81.517344
18	N 28.352027	W -81.527620
19	N 28.351986	W -81.527613
20	N 28.350839	W -81.528795

Core #	GPS Coordinates	
21	N 28.355161	W -81.524952
22	N 28.355161	W -81.524899
23	N 28.356957	W -81.523374
24	N 28.356962	W -81.523347
25	N 28.356905	W -81.523236
26	N 28.356872	W -81.523228
27	N 28.360220	W -81.520450
28	N 28.360223	W -81.520429
29	N 28.361627	W -81.519083
30	N 28.364249	W -81.516651
31	N 28.364219	W -81.516642
32	N 28.365904	W -81.515309
33	N 28.365904	W -81.515266
34	N 28.349264	W -81.529205
35	N 28.349262	W -81.529174
36	N 28.352386	W -81.525754
37	N 28.352387	W -81.525723
38	N 28.360303	W -81.526074
39	N 28.360276	W -81.526074
40	N 28.356944	W -81.519102

