

**FLORIDA DEPARTMENT OF TRANSPORTATION**  
AVIATION AND SPACEPORTS OFFICE

# Statewide Airfield Pavement Management Program

**Airport Pavement  
Evaluation Report  
November 2019**



**Leesburg International  
Airport (LEE)**  
General Aviation Airport  
District 5







*Florida Department of Transportation*

# Statewide Airfield Pavement Management Program

**Prepared by:**

*FDOT Aviation and Spaceports Office  
605 Suwannee Street  
Tallahassee, Florida 32399-0450*



OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

# Table of Contents

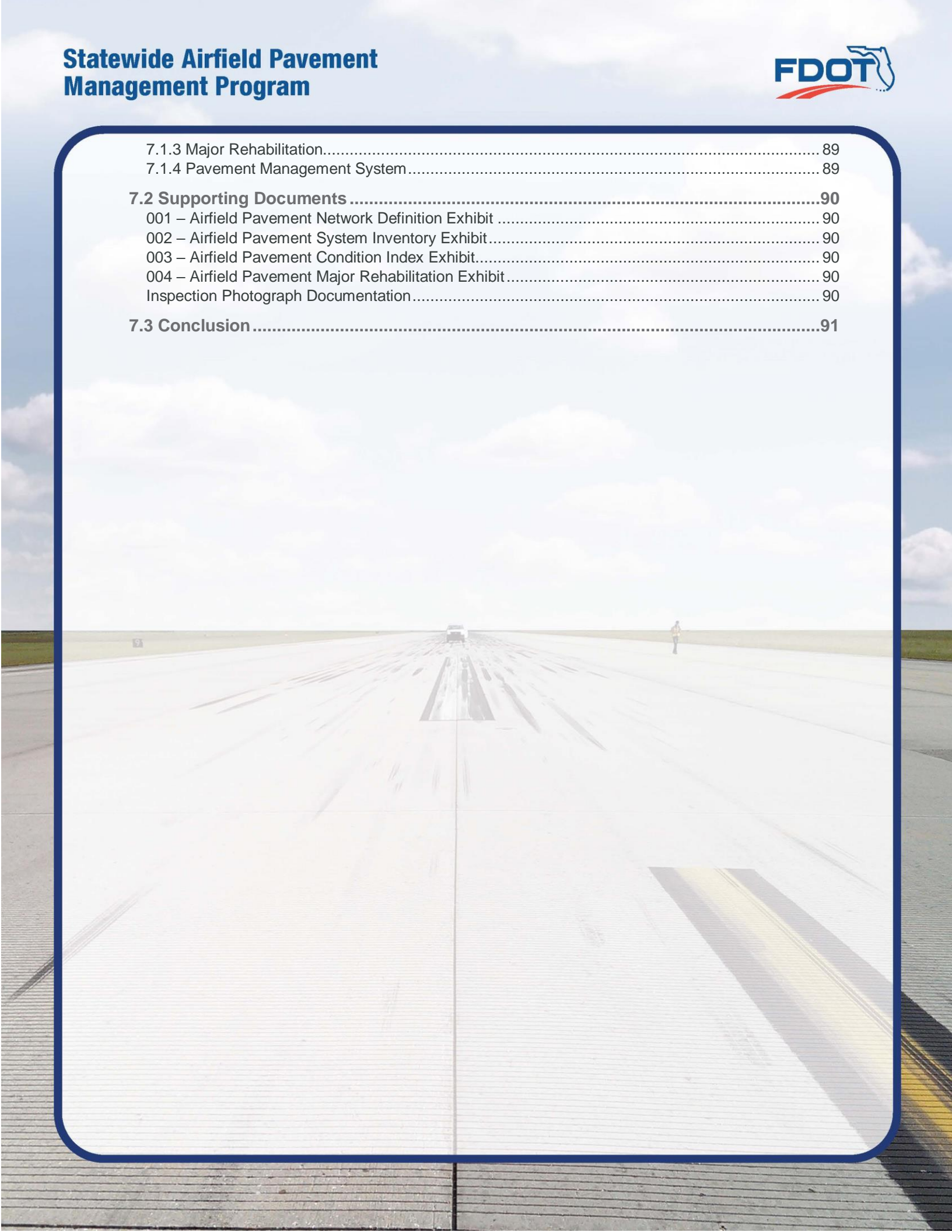
<b>Executive Summary .....</b>	<b>10</b>
<b>Program Background .....</b>	<b>10</b>
<b>Summary of Results .....</b>	<b>11</b>
Pavement Condition Index (Latest Inspection) .....	11
Forecasted Pavement Condition Index 2020-2029 .....	12
Major Rehabilitation Planning 2020-2029 .....	14
<b>Summary of Leesburg International Airport .....</b>	<b>15</b>
<b>Chapter 1 – Introduction .....</b>	<b>17</b>
1.1 Background .....	17
1.2 Statewide Airfield Pavement Management Program (SAPMP) Update 2018-2019 ....	17
1.3 Organization .....	19
1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager .....	19
1.3.2 Participating Florida Public-Use and Publicly Owned Airports .....	19
1.3.3 Florida Department of Transportation District Offices .....	19
1.3.4 Consultant .....	19
1.4 Purpose of Airport Pavement Evaluation Report .....	21
1.5 History of the Program .....	21
1.6 Federal Aviation Administration (FAA) .....	23
1.7 FDOT SAPMP Objectives and Components .....	23
1.7.1 Program Objectives .....	23
1.7.2 Program Components .....	23
1.8 References .....	27
<b>Chapter 2 – Methodology .....</b>	<b>29</b>
2.1 Airfield Pavement Database .....	29
2.2 Airfield Pavement System Inventory .....	29
2.2.1 Pavement Management Program Network Definition Terminology .....	30
2.3 Airfield Pavement Structure .....	32
2.3.1 Pavement Structure Types .....	32
2.4 Airfield Pavement Work History .....	34
2.4.1 Airfield Pavement Record Keeping .....	34
2.5 Airfield Pavement Traffic .....	34
2.6 Airfield Pavement Condition Index (PCI) Survey .....	34
2.6.1 PCI Survey Methodology .....	34
2.6.2 Pavement Distress Types .....	36



2.6.3 PCI Survey Inspection Procedures .....	40
2.6.4 Updates to the ASTM D5340-12.....	41
<b>Chapter 3 – Airfield Pavement System Inventory .....</b>	<b>44</b>
<b>3.1 Airfield Pavement Network Information .....</b>	<b>44</b>
3.1.1 Previous and/or Anticipated Airfield Pavement Construction .....	44
3.1.2 Estimated Pavement Age .....	46
3.1.3 Functional Use Classification.....	48
3.1.4 Pavement Surface Type .....	49
3.1.5 Pavement System Inventory Details .....	50
<b>Chapter 4 – Airfield Pavement Condition .....</b>	<b>55</b>
<b>4.1 Airfield Pavement Condition Index (Latest Inspection) .....</b>	<b>55</b>
4.1.1 Network-Level Analysis .....	55
4.1.2 Branch-Level Analysis.....	55
4.1.3 Section-Level Analysis .....	58
<b>4.2 Summary of Pavement Condition Evaluation Results .....</b>	<b>62</b>
4.2.1 Network-Level Observations.....	62
4.2.2 Branch-Level Observations .....	62
<b>4.3 Forecasted Pavement Conditions .....</b>	<b>64</b>
4.3.1 Performance Models and Prediction Curves .....	64
4.3.2 Branch-Level Pavement Condition Forecast .....	64
4.3.3 Section-Level Pavement Condition Forecast .....	66
4.3.4 Forecasted PCI Considerations .....	69
<b>Chapter 5 – Localized Maintenance and Repair Planning.....</b>	<b>71</b>
5.1 Localized Maintenance and Repair .....	71
5.2 Localized Maintenance and Repair Policy .....	72
5.3 Localized Maintenance and Repair Analysis and Recommendations .....	76
<b>Chapter 6 – Major Rehabilitation Planning.....</b>	<b>80</b>
<b>6.1 Major Rehabilitation .....</b>	<b>80</b>
6.1.1 Critical PCI.....	82
6.1.2 FDOT Recommended Minimum Service-Level PCI .....	82
<b>6.2 Major Rehabilitation Policy .....</b>	<b>83</b>
6.2.1 Major Rehabilitation Pavement Section Development .....	83
6.2.2 Major Rehabilitation Planning-Level Unit Costs.....	85
<b>6.3 Major Rehabilitation Needs.....</b>	<b>85</b>
6.3.1 10-Year Unconstrained Budget Major Rehabilitation Needs .....	85
<b>Chapter 7 – Conclusion .....</b>	<b>89</b>
<b>7.1 Recommendations.....</b>	<b>89</b>
7.1.1 Continued PCI Survey Inspections .....	89
7.1.2 Localized Maintenance and Repair.....	89

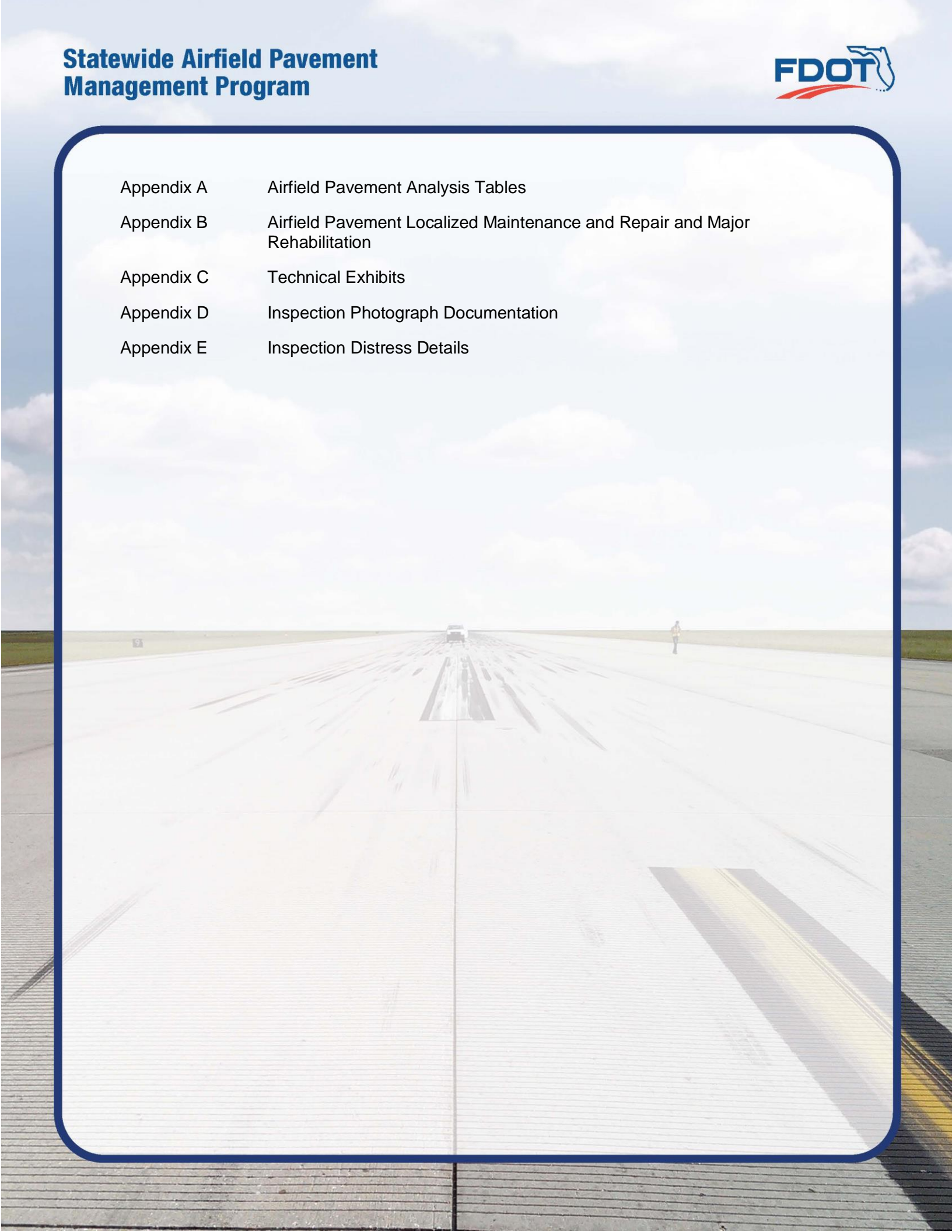


7.1.3 Major Rehabilitation.....	89
7.1.4 Pavement Management System.....	89
<b>7.2 Supporting Documents .....</b>	<b>90</b>
001 – Airfield Pavement Network Definition Exhibit .....	90
002 – Airfield Pavement System Inventory Exhibit.....	90
003 – Airfield Pavement Condition Index Exhibit.....	90
004 – Airfield Pavement Major Rehabilitation Exhibit.....	90
Inspection Photograph Documentation.....	90
<b>7.3 Conclusion .....</b>	<b>91</b>





Appendix A	Airfield Pavement Analysis Tables
Appendix B	Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation
Appendix C	Technical Exhibits
Appendix D	Inspection Photograph Documentation
Appendix E	Inspection Distress Details





## List of Figures

<i>Figure E-4 Major Rehabilitation Planning Annual Budget 2020-2029.....</i>	<i>15</i>
<i>Figure 1.2 Florida Aviation System (Facilities with Pavement) and FDOT Districts.....</i>	<i>18</i>
<i>Figure 1.7.2 (a) Typical Pavement Condition Life Cycle.....</i>	<i>24</i>
<i>Figure 1.7.2 (b) General Pavement Treatments by Condition Range .....</i>	<i>25</i>
<i>Figure 1.7.2 (c) Flexible Asphalt Concrete .....</i>	<i>26</i>
<i>Figure 1.7.2 (d) Rigid Portland Cement Concrete .....</i>	<i>26</i>
<i>Figure 3.1.1 (a) 2019 Airfield Pavement Network Definition Exhibit .....</i>	<i>45</i>
<i>Figure 3.1.1 (b) 2019 Airfield Pavement System Inventory Exhibit.....</i>	<i>46</i>
<i>Figure 3.1.2 Average Age of Pavements at Inspection.....</i>	<i>47</i>
<i>Figure 3.1.3 Airfield Pavement Functional Classification Use by Area .....</i>	<i>48</i>
<i>Figure 3.1.4 (a) Pavement Surface Type by Area (SF).....</i>	<i>49</i>
<i>Figure 3.1.4 (b) Pavement Surface Type by Area (%) .....</i>	<i>50</i>
<i>Figure 4.1.1 Latest Condition – Overall Network .....</i>	<i>55</i>
<i>Figure 4.1.2 (a) Latest Condition – Runway Pavements.....</i>	<i>56</i>
<i>Figure 4.1.2 (b) Latest Condition – Taxiway Pavements .....</i>	<i>56</i>
<i>Figure 4.1.2 (c) Latest Condition – Apron Pavements .....</i>	<i>57</i>
<i>Figure 4.1.2 (d) Latest Condition – Taxilane Pavements .....</i>	<i>57</i>
<i>Figure 4.1.3 2019 Airfield Pavement Condition Index Exhibit.....</i>	<i>61</i>
<i>Figure 4.2.2 Pavement Condition Summary by Facility Use .....</i>	<i>63</i>
<i>Figure 4.3.2 (a) Forecasted Runway Pavement Performance .....</i>	<i>64</i>
<i>Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance.....</i>	<i>65</i>
<i>Figure 4.3.2 (c) Forecasted Apron Pavement Performance .....</i>	<i>65</i>
<i>Figure 6.1 (a) Major Rehabilitation Planning Decision Diagram, <math>PCI \leq</math> Critical <math>PCI</math>.....</i>	<i>80</i>
<i>Figure 6.1 (b) Major Rehabilitation Planning Decision Diagram, <math>PCI &gt;</math> Critical <math>PCI</math> .....</i>	<i>81</i>
<i>Figure 6.3.1 (a) 10-Year Major Rehabilitation Needs by Program Year .....</i>	<i>87</i>
<i>Figure 6.3.1 (b) 10-Year Major Rehabilitation Needs by Program Year Exhibit.....</i>	<i>87</i>



## List of Tables

<i>Table E-1 Pavement Condition Index Summary (Last Inspection) – Section Level.....</i>	<i>11</i>
<i>Table E-2 Pavement Condition Index Forecast 2020-2029 .....</i>	<i>12</i>
<i>Table E-3 Major Rehabilitation Planning 2020-2029 .....</i>	<i>14</i>
<i>Table 2.2.1 Airfield Pavement Database Network Definition Terminology.....</i>	<i>31</i>
<i>Table 2.6.2 (a) Pavement Distress Types – Flexible Asphalt Concrete-Surfaced Airfields</i>	<i>36</i>
<i>Table 2.6.2 (b) Pavement Distresses Possible Causes – Flexible Asphalt Concrete-Surfaced Airfields .....</i>	<i>37</i>
<i>Table 2.6.2 (c) Pavement Distresses Possible Effects – Flexible Asphalt Concrete-Surfaced Airfields .....</i>	<i>37</i>
<i>Table 2.6.2 (d) Pavement Distresses – Rigid Portland Cement Concrete-Surfaced Airfields .....</i>	<i>38</i>
<i>Table 2.6.2 (e) Pavement Distresses Possible Causes – Rigid Portland Cement Concrete-Surfaced Airfields .....</i>	<i>39</i>
<i>Table 2.6.2 (f) Pavement Distresses Possible Effects – Rigid Portland Cement Concrete-Surfaced Airfields .....</i>	<i>39</i>
<i>Table 2.6.3 (a) Recommended Sample Rate Schedule for Flexible Asphalt Concrete .....</i>	<i>40</i>
<i>Table 2.6.3 (b) Recommended Sample Rate Schedule for Rigid Portland Cement Concrete .....</i>	<i>40</i>
<i>Table 2.6.4 Summary of Updates to ASTM D5340-12 .....</i>	<i>42</i>
<i>Table 3.1.1 Previous and/or Anticipated Airfield Pavement Construction .....</i>	<i>44</i>
<i>Table 3.1.5 Pavement System Inventory Details .....</i>	<i>51</i>
<i>Table 4.1.3 Latest Pavement Condition Index Summary .....</i>	<i>59</i>
<i>Table 4.3.3 Forecasted PCI 2020-2029.....</i>	<i>67</i>
<i>Table 5.2 (a) Localized Maintenance and Repair – Flexible Asphalt Concrete .....</i>	<i>72</i>
<i>Table 5.2 (b) Localized Maintenance and Repair – Rigid Portland Cement Concrete .....</i>	<i>73</i>
<i>Table 5.2 (c) Localized Repair Planning-Level Unit Costs – Flexible Asphalt Concrete ....</i>	<i>75</i>



<i>Table 5.2 (d) Localized M&amp;R Planning-Level Unit Costs – Rigid Portland Cement Concrete .....</i>	<i>75</i>
<i>Table 5.3 (a) Summary of Airport Localized M&amp;R Planning Cost and Quantity at Network Level .....</i>	<i>76</i>
<i>Table 5.3 (b) Summary of Airport Localized M&amp;R Planning Cost and Quantity at Section Level .....</i>	<i>77</i>
<i>Table 5.3 (c) Summary of Localized Maintenance .....</i>	<i>78</i>
<i>Table 6.1.2 FDOT Recommended Minimum Service-Level PCI.....</i>	<i>82</i>
<i>Table 6.2.1 (a) Conceptual Pavement Section for Major Rehabilitation – Flexible Asphalt Concrete .....</i>	<i>83</i>
<i>Table 6.2.1 (b) Conceptual Pavement Section for Major Rehabilitation – Rigid Portland Cement Concrete .....</i>	<i>84</i>
<i>Table 6.2.2 General Aviation Major Rehabilitation Planning-Level Unit Cost by Pavement Type .....</i>	<i>85</i>
<i>Table 6.3.1 10-Year Major Rehabilitation Needs .....</i>	<i>86</i>



# **Executive Summary**







# Executive Summary

## Program Background

Airport airfield pavement infrastructure facilities represent a large capital investment in the Florida Airport System. Timely and appropriate maintenance and strategic rehabilitation are essential as repair costs increase significantly in proportion to deterioration. Airport pavement distresses can also contribute to the development of loose debris and decreased ride quality, which can be a safety concern for aircraft operations.

In 2016, the Florida Department of Transportation (FDOT) Aviation and Spaceports Office (ASO) selected Kimley-Horn and Associates, Inc. with subconsultants Airfield Pavement Management Systems, LLC and AVCON, Inc. to provide professional services in support of FDOT in the continued efforts of performing a system update to the Statewide Airfield Pavement Management Program (SAPMP). This work is to be completed from fiscal year 2016 through fiscal year 2019. The SAPMP has 95 public use airport facilities throughout the seven FDOT Districts that participate in the system update. The results of this system update for this specific airport are presented in this report and can be utilized by FDOT and the Federal Aviation Administration (FAA) to identify, prioritize, and schedule pavement maintenance, repair, and major rehabilitation projects.

Pavement condition was assessed utilizing the pavement condition index (PCI) methodology as defined in the FAA Advisory Circular **150/5380-7B “Airport Pavement Management Program (PMP)”** using the documented procedures set forth by ASTM **D5340-12 “Standard Test Method for Airport Pavement Condition Index Surveys.”**

Pavement deterioration, in accordance with the ASTM D5340-12, was characterized in terms of distinct distress types, severity level of distress, and quantity of distress. This information is utilized to calculate a PCI numeric that represents the overall condition of the pavement in a numeric index that ranges from 0 (a condition category of FAILED) to 100 (GOOD). The PCI methodology analyzes an overall measure of the pavement condition and provides an indication of the degree of maintenance, repair, or rehabilitation efforts that will be required to sustain functional pavement.

The tasks required for the system update at each participating airport consist of the following:

- Obtain recent and anticipated airfield pavement construction work data.
- Update airport airfield pavement system inventory records (construction history, identification, geometry, and facility classification).
- Perform PCI Survey Inspections at each participating airport.
- Update the FDOT SAPMP PAVER™ database system.
- Update the FDOT SAPMP GIS Airfield Navigation GPS enabled Maps.
- Update airfield pavement performance models and pavement condition forecasting.
- Identification of planning-level maintenance, repair, and major rehabilitation to address pavement needs based on functional PCI analysis.
- Development of planning-level opinion of probable construction costs for pavement rehabilitation.



## Summary of Results

### Pavement Condition Index (Latest Inspection)

*Table E-1 Pavement Condition Index Summary (Last Inspection) – Section Level*

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
LEE	RUNWAY 13-31	RUNWAY	6105	250,000	61	Fair
LEE	RUNWAY 13-31	RUNWAY	6110	250,000	66	Fair
LEE	RUNWAY 13-31	RUNWAY	6115	15,000	86	Good
LEE	RUNWAY 13-31	RUNWAY	6120	15,000	90	Good
LEE	RUNWAY 13-31	RUNWAY	6125	50,000	82	Satisfactory
LEE	RUNWAY 13-31	RUNWAY	6130	50,000	88	Good
LEE	RUNWAY 3-21	RUNWAY	6205	242,833	87	Good
LEE	RUNWAY 3-21	RUNWAY	6210	244,205	88	Good
LEE	TAXIWAY A	TAXIWAY	100	76,252	85	Satisfactory
LEE	TAXIWAY A	TAXIWAY	105	82,235	93	Good
LEE	TAXIWAY A	TAXIWAY	110	113,871	78	Satisfactory
LEE	TAXIWAY A	TAXIWAY	115	62,194	89	Good
LEE	TAXIWAY A1	TAXIWAY	120	4,409	59	Fair
LEE	TAXIWAY A2	TAXIWAY	130	4,287	65	Fair
LEE	TAXIWAY A3	TAXIWAY	140	4,673	63	Fair
LEE	TAXIWAY B	TAXIWAY	200	76,570	83	Satisfactory
LEE	TAXIWAY B	TAXIWAY	205	4,534	65	Fair
LEE	TAXIWAY C	TAXIWAY	300	25,917	83	Satisfactory
LEE	TAXIWAY D	TAXIWAY	400	22,621	57	Fair
LEE	TAXIWAY E	TAXIWAY	500	8,617	90	Good
LEE	TAXIWAY J	TAXIWAY	600	26,600	90	Good
LEE	TAXIWAY K	TAXIWAY	700	138,244	82	Satisfactory
LEE	TAXIWAY K	TAXIWAY	705	33,012	65	Fair
LEE	TAXIWAY K	TAXIWAY	710	23,819	94	Good
LEE	TAXIWAY K	TAXIWAY	715	4,634	63	Fair
LEE	TAXILANE A	TAXILANE	150	45,971	100	Good
LEE	TAXILANE TO T-HANGARS	TAXILANE	4110	14,559	69	Fair
LEE	TAXILANE TO T-HANGARS	TAXILANE	4115	20,585	80	Satisfactory
LEE	TAXILANE TO APRON	TAXILANE	4305	10,698	35	Very Poor
LEE	NORTH APRON	APRON	4105	323,324	53	Poor
LEE	NORTH APRON	APRON	4120	6,600	59	Fair
LEE	NORTH APRON	APRON	4125	59,690	66	Fair
LEE	NORTH APRON	APRON	4130	56,108	94	Good
LEE	NORTH APRON	APRON	4135	18,579	31	Very Poor





Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
LEE	NORTH APRON	APRON	4140	8,600	12	Serious
LEE	NORTH APRON	APRON	4145	11,497	100	Good
LEE	APRON T-HANGAR	APRON	4205	45,127	69	Fair
LEE	RE-FUELING APRON	APRON	4505	25,329	26	Very Poor
LEE	RUNUP APRON	APRON	5205	36,679	85	Satisfactory
LEE	RUNUP APRON	APRON	5305	54,952	90	Good
LEE	RUNUP APRON	APRON	5405	18,231	100	Good

## Forecasted Pavement Condition Index 2020-2029

Table E-2 Pavement Condition Index Forecast 2020-2029

Network ID	Branch ID	Section ID	Last PCI	Forecasted PCI									
				2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
LEE	AP N	4105	53	51	49	48	46	45	43	42	40	38	37
LEE	AP N	4120	59	57	56	55	54	52	51	51	50	49	48
LEE	AP N	4125	66	64	62	61	59	58	56	55	53	51	50
LEE	AP N	4130	94	91	88	85	82	80	77	75	73	71	69
LEE	AP N	4135	31	30	29	27	26	25	24	23	22	21	20
LEE	AP N	4140	12	10	9	8	7	6	5	4	3	2	1
LEE	AP N	4145	100	94	92	91	89	88	86	84	83	81	80
LEE	AP RFUEL	4505	26	24	22	21	19	18	16	15	13	11	10
LEE	AP RU	5205	85	83	81	80	78	77	75	74	72	70	69
LEE	AP RU	5305	90	88	86	85	83	82	80	79	77	75	74
LEE	AP RU	5405	100	98	96	95	93	92	90	88	87	85	84
LEE	AP T-HANG	4205	69	67	65	64	62	61	59	58	56	54	53
LEE	RW 13-31	6105	61	60	60	60	60	60	60	59	59	58	56
LEE	RW 13-31	6110	66	64	63	62	61	61	60	60	60	60	60
LEE	RW 13-31	6115	86	84	82	81	79	77	76	74	73	71	69
LEE	RW 13-31	6120	90	88	86	85	83	81	80	78	77	75	73
LEE	RW 13-31	6125	82	80	78	77	75	73	72	70	69	67	65
LEE	RW 13-31	6130	88	86	84	83	81	79	78	76	75	73	71
LEE	RW 3-21	6205	87	84	82	79	77	74	72	70	68	66	65
LEE	RW 3-21	6210	88	85	83	80	78	75	73	71	69	67	65
LEE	TL A	150	100	97	95	93	90	88	85	83	80	78	76
LEE	TL APRON	4305	35	33	32	31	31	30	29	28	28	27	26
LEE	TL T-HANG	4110	69	68	67	66	65	64	63	62	61	60	59
LEE	TL T-HANG	4115	80	78	76	74	73	71	70	69	68	67	66
LEE	TW A	100	85	82	80	78	76	74	73	71	70	69	68



Network ID	Branch ID	Section ID	Last PCI	Forecasted PCI									
				2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
LEE	TW A	105	93	90	88	85	83	81	78	76	75	73	72
LEE	TW A	110	78	76	75	74	73	72	71	70	69	68	67
LEE	TW A	115	89	86	84	81	79	77	75	74	72	71	70
LEE	TW A1	120	59	57	56	55	54	52	51	49	47	46	44
LEE	TW A2	130	65	64	63	62	61	60	59	58	57	55	54
LEE	TW A3	140	63	62	61	60	59	58	56	55	54	52	51
LEE	TW B	200	83	81	79	77	75	74	73	72	71	70	70
LEE	TW B	205	65	63	62	60	59	57	55	54	52	50	49
LEE	TW C	300	83	80	78	76	75	73	72	70	69	68	67
LEE	TW D	400	57	55	54	53	51	49	48	46	45	43	41
LEE	TW E	500	90	87	85	82	80	78	76	74	73	71	70
LEE	TW J	600	90	87	84	82	80	78	76	75	74	73	72
LEE	TW K	700	82	80	78	76	75	74	73	72	71	70	69
LEE	TW K	705	65	64	63	62	61	60	59	58	57	55	54
LEE	TW K	710	94	91	89	86	84	81	79	77	75	74	72
LEE	TW K	715	63	62	61	60	59	58	56	55	54	52	51



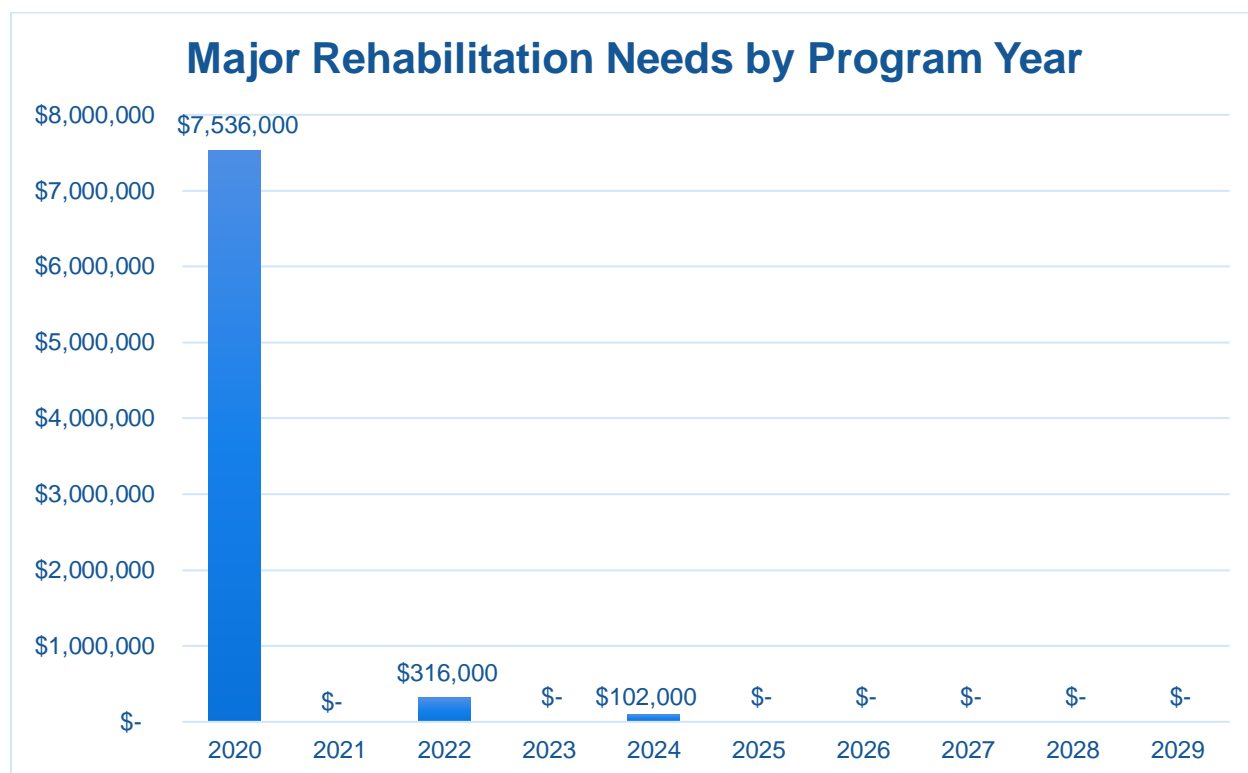


## Major Rehabilitation Planning 2020-2029

Table E-3 Major Rehabilitation Planning 2020-2029

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2020	LEE	AP N	4105	AC	323,324	51	AC Restoration	\$ 2,264,000.00
2020	LEE	AP N	4120	PCC	6,600	57	PCC Restoration	\$ 67,000.00
2020	LEE	AP N	4125	AC	59,690	64	AC Restoration	\$ 418,000.00
2020	LEE	AP N	4135	PCC	18,579	30	PCC Reconstruction	\$ 279,000.00
2020	LEE	AP N	4140	PCC	8,600	10	PCC Reconstruction	\$ 130,000.00
2020	LEE	AP RFUEL	4505	AC	25,329	24	AC Reconstruction	\$ 228,000.00
2020	LEE	RW 13-31	6105	AAC	250,000	60	AC Restoration	\$ 1,751,000.00
2020	LEE	RW 13-31	6110	AAC	250,000	64	AC Restoration	\$ 1,751,000.00
2020	LEE	TL APRON	4305	AC	10,698	33	AC Reconstruction	\$ 97,000.00
2020	LEE	TW A1	120	AC	4,409	57	AC Restoration	\$ 31,000.00
2020	LEE	TW A2	130	AC	4,287	64	AC Restoration	\$ 31,000.00
2020	LEE	TW A3	140	AC	4,673	62	AC Restoration	\$ 33,000.00
2020	LEE	TW B	205	AAC	4,534	63	AC Restoration	\$ 32,000.00
2020	LEE	TW D	400	AC	22,621	55	AC Restoration	\$ 159,000.00
2020	LEE	TW K	705	AC	33,012	64	AC Restoration	\$ 232,000.00
2020	LEE	TW K	715	AC	4,634	62	AC Restoration	\$ 33,000.00
2022	LEE	AP T-HANG	4205	AC	45,127	64	AC Restoration	\$ 316,000.00
2024	LEE	TL T-HANG	4110	AC	14,559	64	AC Restoration	\$ 102,000.00

\*All planning cost values have been rounded to the nearest thousand-dollar.

*Figure E-4 Major Rehabilitation Planning Annual Budget 2020-2029*

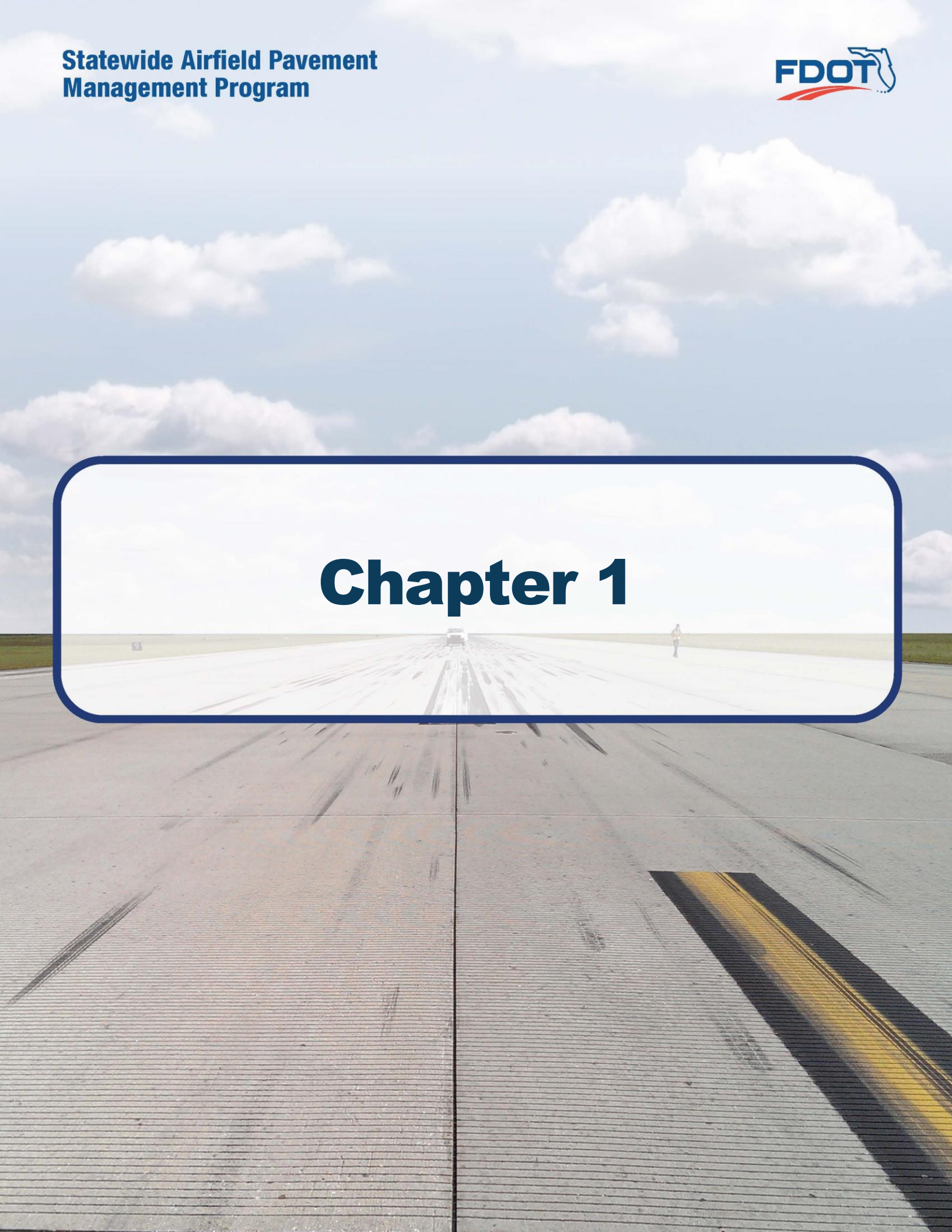
## Summary of Leesburg International Airport

Leesburg International Airport was inspected in January 2019 – the overall weighted PCI value was 75, a condition rating of Satisfactory. The results of the maintenance, repair, and major rehabilitation analysis identified \$707,030 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$7,954,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$7,536,000 for pavements below critical condition.

Localized maintenance and repair identified within this report are categorized as preventive or stopgap; the FDOT SAPMP has defined maintenance policies based on FAA recommendations. Major rehabilitation is identified within the FDOT SAPMP as major construction activity that would result in an improvement or resetting of the pavement section's PCI to a value of 100. Such activities could include: mill and hot-mix asphalt overlay, rigid pavement repair and slab replacement, and full-depth reconstruction. It is recommended that the airport use this as a planning tool for future project development and prioritization – all localized maintenance and repair and major rehabilitation recommendations should be considered as planning-level only. All final localized maintenance, repair, and major rehabilitation is subject to change based on airport prioritization and further design-level evaluation.



# **Chapter 1**





# Chapter 1 – Introduction

## 1.1 Background

The State of Florida has 128 public airports of which 100 public-use airports are recognized as part of the Federal Aviation Administration's (FAA) National Plan of Integrated Airport Systems (NPIAS) that are vital to the Florida economy as well as the economy of the United States. The Florida Aviation System (FAS) provides opportunities for the State to capitalize on an increasingly global marketplace. Florida's system of commercial service and general aviation (GA) airports are important to businesses throughout the entire State. Air travel is essential to tourism, Florida's number one industry.

There are millions of square feet of pavement infrastructure that consists of runways, taxiways, aprons, ramps, and other areas of airports that are vital to the support and safety of aircraft operations. Timely pavement maintenance, repair and major rehabilitation of these pavements will support the airport in operating safely, efficiently, economically and without excessive down time.

In general, adherence to the FAA Advisory Circulars are mandatory for all projects funded with federal grant monies through the Airport Improvement Program (AIP) and with revenue from the Passenger Facilities Charges (PFC) Program. Further information is detailed in FAA Grant Assurance No. 11 "Pavement Maintenance," No. 34 "Policies, Standards, and Specifications," and PFC Assurance No. 9 "Standards and Specifications." The Florida Department of Transportation (FDOT) performs the Statewide Airfield Pavement Management Program (SAPMP) System Updates for the benefit of participating public-use and publicly owned airports through the Aviation and Spaceports Office (ASO).

The SAPMP addresses the requirements of maintaining an effective pavement management program for the participating airports at the network level. Network-level management of pavement assets provides insight for short-term and long-term budget needs, understanding of the overall condition of the network (current and future), and pavement facilities that are subject for project consideration. A network-level evaluation can be supportive in the identification of maintenance, repair, and major rehabilitation needs and budgetary planning-level opinions of probable construction costs.

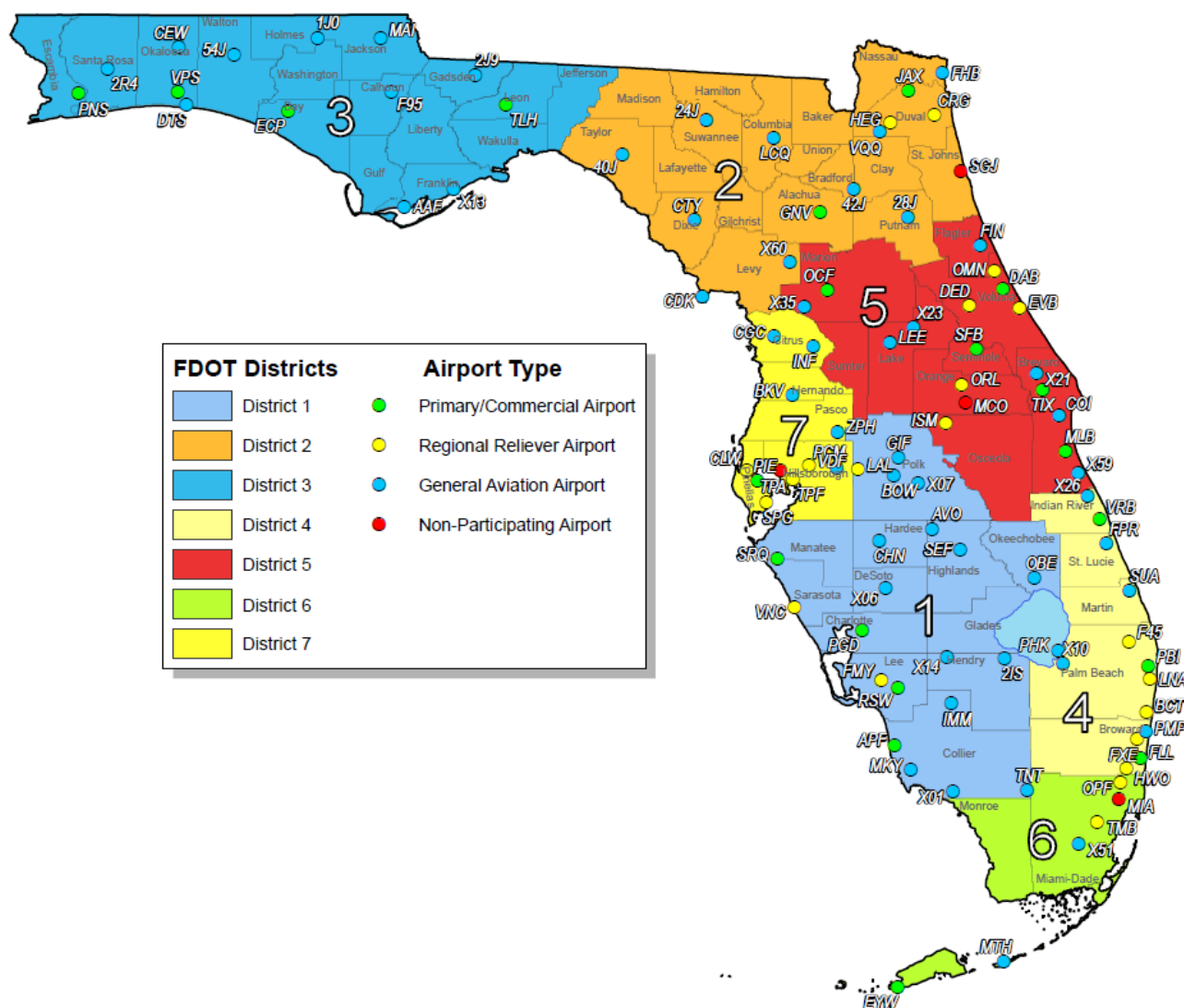
## 1.2 Statewide Airfield Pavement Management Program (SAPMP) Update 2018-2019

In 1992, the FDOT established the Statewide Airfield Pavement Management Program (SAPMP) to provide program managers, District Aviation and Spaceport Offices, and airport operators a system to proactively manage airport airfield pavement infrastructure within the Florida Aviation System. The SAPMP performs network-level Pavement Condition Index (PCI) survey inspections for airport facilities that are categorized as General Aviation (GA), Reliever (RL), and Commercial (PR). Currently, the program consists of 95 actively participating public-use airports with pavement facilities and provides users with comprehensive data to better manage pavement assets.





Figure 1.2 Florida Aviation System (Facilities with Pavement) and FDOT Districts



In 2016, the Florida Department of Transportation Aviation and Spaceports Office contracted Kimley-Horn and Associates, Inc. along with subconsultants Airfield Pavement Management Systems, LLC and AVCON, Inc. to provide professional services in support of FDOT in the continued efforts of performing a system update to the SAPMP. This work is to be completed from fiscal year 2016 through fiscal year 2019.



## 1.3 Organization

### 1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager

The FDOT Aviation and Spaceports Office (ASO) Aviation Engineering Manager serves as the Program Manager (ASO-PM) for the SAPMP. The ASO-PM monitors the work performed by the designated Consultant for the program. The ASO-PM has review and approval authority for each program task and manages the program's day-to-day details and pertinent updates.

The ASO-PM reports updates and milestones to the FDOT State Aviation and Spaceports Manager and Development Administrator.

### 1.3.2 Participating Florida Public-Use and Publicly Owned Airports

The airports are the end-user and beneficiary of the SAPMP. The SAPMP provides a specific Airport Pavement Evaluation Report that meets the requirements of the FAA Advisory Circular **150/5380-7B "Airport Pavement Management Program (PMP)."** Individual participating airports will be provided a final Airport Pavement Evaluation Report by the designated Consultant that is specific to each airport's airfield pavement condition index survey. The ASO-PM has full authority and final approval of each report prior to finalization. In advance of each PCI survey and prior to completion of each Airport Pavement Evaluation Report, participating airports are asked to provide the necessary record documentation for the proper analysis efforts. Relevant record documentation artifacts may consist of but are not limited to: Airport Layout Plans (ALP), Construction Bid Tabulations, As-Built Construction Drawings, Engineer's Reports, and/or field pavement inspection reports.

### 1.3.3 Florida Department of Transportation District Offices

The seven (7) FDOT District Offices, specifically the Aviation representatives (currently the Freight and Logistics personnel), provide essential support to the SAPMP update and the ASO-PM. Each District supports the SAPMP's on-going efforts by providing local construction cost information throughout the State. The construction cost information, typically consisting of plans and bid tabulations, are used as the basis of the development maintenance, repair, and major rehabilitation opinions of probable construction costs for planning purposes. Each District Office receives copies of individual Airport Pavement Evaluation Reports for the participating airport facilities located within their respective Districts.

### 1.3.4 Consultant

The Consultant, Kimley-Horn and Associates, Inc., provides technical and administrative support to the ASO-PM for the SAPMP update. The support consists of airfield pavement system inventory updates, performance of PCI Surveys in accordance with ASTM **D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys,"** evaluation and reporting of the pavement condition in accordance with the FAA Advisory Circular **150/5380-7B "Airport Pavement Management Program (PMP)."**

The Consultant Team consists of Kimley-Horn, Airfield Pavement Management Systems, LLC., and AVCON, Inc.





A brief description of the general scope of work undertaken to update the SAPMP includes but is not limited to:

- ▶ **Research and evaluation of existing record documentation** was performed to identify construction projects that have taken place since the most recent major update of the SAPMP. This data is used to update the pavement inventory and network definition.
- ▶ **An update to the existing Network Definition Map** was made to reflect geometric changes, pavement composition updates, and section characterization. Furthermore, an update to the PCI Survey sample units were made to reflect the field investigation efforts.
- ▶ **A functional pavement evaluation with PCI Survey inspections** was completed on all airfield pavements maintained by the Airport. The PCI Survey procedure, as defined by ASTM D5340-12, was used as the basis of the functional pavement evaluation. For this specific evaluation, the sample units defined by prior studies were inspected as to better develop performance models for prediction curves. Pavement subject to construction or anticipated construction during scheduled PCI Survey inspection or within 2 years were omitted from inspection based on confirmation of airport personnel.
- ▶ **Condition Analysis** was performed based on the distress data observed, rated, measured, and recorded in accordance with the ASTM D5340-12 for the calculation of PCI values and ratings. The results of the current condition analysis were used in concert with the historic PCI Survey data and construction work history to develop performance models to forecast future PCI values for each section for a 10-year study duration.
- ▶ **Maintenance, Repair, and Rehabilitation Planning** was performed predicated on the results of the condition analysis with updated policies and planning-level unit costs. The policies, or M&R policies, have been updated to reflect standard practices for maintenance, repair, and major rehabilitation as defined by the FAA **AC 150/5380-6C “Guidelines and Procedures for Maintenance of Airport Pavements.”** Planning-level unit costs were developed based on representative construction bid tabulations provided by participating airports. The bid tabulations consisted of limited airfield pavement construction projects that took place between 2009 and 2015 at participating airports.



## 1.4 Purpose of Airport Pavement Evaluation Report

The individual airport airfield pavement evaluation report discusses the work performed, a summary of findings, condition analysis results, and recommendations for maintenance, repair, and major rehabilitation (M&R) planning associated with the SAPMP system update. It also briefly describes the procedures used to ensure that the appropriate engineering and scientific standards of care, quality, budget, schedules, and safety requirements were implemented during the performance of this work.

The purpose of this Airfield Pavement Evaluation Report is to achieve the following:

- Describe the goals, procedures, and purpose of the SAPMP
- Provide a brief technical explanation of the pavement management methodology, standard practices, and objectives
- Analyze pavement distresses data for the determination of pavement conditions and for identification of airfield pavement maintenance, repair, and major rehabilitation needs based on functional PCI trends

***The identification of rehabilitation needs has been determined at the planning level. Design-level investigation is recommended prior to developing construction-level design documents and budgets.***

In compliance with FAA Grant Assurances 11 and 19; the FDOT SAPMP provides airports with airfield pavement evaluation reports in accordance with FAA **AC 150/5380-7B Airport Pavement Management Program (PMP)** and **AC 150/5380-6C Guidelines and Procedures for Maintenance of Airport Pavements**. The application of the results of a PCI survey are for planning purposes and are limited to the visual observation of deteriorated pavements in limited sampling; design-level investigation is recommended in accordance with the FAA procedures defined in **AC 5320-6F Airport Pavement Design and Evaluation** and **AC 150/5370-11B Use of Nondestructive Testing in the Evaluation of Airport Pavements**. The aforementioned ACs provide the design-level material properties of in-situ pavement and subgrade layers for the determination of appropriate rehabilitation actions. The FDOT Statewide Airfield Pavement Management Program is organized to provide airports with planning-level data and does not intend to preclude the responsible engineer in performing the appropriate level of investigation and analysis in determining the appropriate design details of a pavement rehabilitation. It would not be advisable to solely base design-level rehabilitation without the appropriate level of investigation and determination of pavement deterioration beyond that of a visual functional condition assessment.

## 1.5 History of the Program

In 1992, the FDOT implemented the SAPMP to understand the pavement conditions at public airports in the FAS, systematically update pavement infrastructure information, and assist airport operators with recommendations of pavement maintenance, repair, and major rehabilitation needs. The 1992 SAPMP implementation provided the FDOT and the participating airports valuable information for establishing and performing timely and appropriate pavement rehabilitation.





During the 1992-1993 implementation and again during the 1998-1999 updates; the SAPMP performed the development with proprietary software for pavement management system analysis. This development allowed for the creation of pavement management database file system populated with airport attributes and condition data. The pavement management database was used to establish maintenance, repair, and rehabilitation policies; consider planning-level unit costs; and develop recommendations for performing pavement maintenance. This system, known as AIRPAV, was initially developed during the 1992-1993 SAPMP implementation for the analysis of distress data. The AIRPAV system was used again in the 1998-1999 SAPMP update.

In 2004, the SAPMP system update included the review of the AIRPAV software compared to other industry available non-proprietary software packages. As a result of this review, MicroPAVER™ (currently known as PAVER™) was selected for implementation of the system update. MicroPAVER™ was developed by the U.S. Army Corps of Engineers Construction Engineering Research Laboratory for pavement management. Data from the 1998-1999 FDOT SAPMP update, which was built upon the initial 1992-1993 implementation of AIRPAV, was reviewed and converted to be compatible with the MicroPAVER™ system. This data conversion included all documented pavement facilities, classifications, types, histories, geometries, PCI condition data and pertinent attributes gathered from airport feedback at the time. This information was used to develop the inventory of each participating airport's pavement facilities in a consistent format. This was the development of Airfield Pavement Network Definition Exhibits. These inventory exhibits visually depicted the branch, section, and sample units that were based upon the pavement construction history and composition information provided by each airport.

In the 2006-2008 system update, the SAPMP was updated again with continued use of the MicroPAVER™ system. Based on the distress data collected, a maintenance repair and major rehabilitation planning program was developed for each airport. As part of this SAPMP update, the procedures for the inspection and the collection of the pavement distress data were documented, and an interactive website (<http://www.dot.state.fl.us/aviation/pavement.shtm>) was established for input of data.

In the 2010-2012 system update, the SAPMP was updated using new global positioning system (GPS) integrated technology to digitally collect pavement distress data. Interactive geographic information system (GIS) map files were developed from updated Airfield Pavement Network Definition Exhibits to aid pavement condition inspectors in the collection of sample distress data. The data collected was utilized to develop pavement performance models to predict future pavement PCI values and make recommendations for major rehabilitation.

In the 2013-2015 system update, the SAPMP integrated PAVER™ and FieldInspector™ with the use of GPS and GIS capable field tablets. Furthermore, the update included continued adherence to the ASTM **D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys."** The ASTM update consisted of refinement of distress definition types and deduction values for select asphalt concrete and Portland Cement Concrete distresses.



## 1.6 Federal Aviation Administration (FAA)

Currently, airports participating in the Airport Improvement Program (AIP) Grant Program are required by the FAA to develop and implement a pavement maintenance program to be eligible for funding (FAA Advisory Circular **150/5380-6C “Guidelines and Procedures for Maintenance of Airport Pavements”** and **150/5380-7B “Airport Pavement Management Program (PMP)”**). This program requires detailed inspection of airfield pavement conditions by trained personnel. The inspections are required to be performed at least once a year using the PASER method or every three years if the pavement is inspected as defined by the PCI survey procedure in accordance with the ASTM **D5340-12 “Standard Test Method for Airport Pavement Condition Index Surveys.”**

In general, adherence to the Advisory Circulars are mandatory for all projects funded with federal grant monies through the AIP program and with revenue from the Passenger Facilities Charges (PFC) Program. Further information is detailed in FAA Grant Assurance No. 11 “Pavement Maintenance,” No. 34 “Policies, Standards, and Specifications,” and PFC Assurance No. 9 “Standards and Specifications.”

## 1.7 FDOT SAPMP Objectives and Components

The FDOT SAPMP is a program that provides the FAS support in implementing and/or maintaining a network-level Pavement Management Program in a consistent and regularly scheduled manner.

In accordance with FAA AC **150/5380-7B “Airport Pavement Management Program (PMP)”** an effective Pavement Management Program consists of a system that achieves specific objectives. The FDOT SAPMP objectives are as follows:

### 1.7.1 Program Objectives

- 1 A systematic means for collecting and storing information regarding existing pavement structure and condition.
- 2 An objective and repeatable system for evaluating pavement condition.
- 3 Procedures for predicting future pavement condition.
- 4 Procedures for modeling both past and future pavement performance conditions.
- 5 Procedures to determine the budget requirements to meet management objectives, such as the maintenance, repair, and major rehabilitation budget required to keep a pavement at a specified PCI level or the budget required to improve to target PCI level.
- 6 Procedures for formulating and prioritizing maintenance, repair, and major rehabilitation projects.

The objectives are accomplished by the following components:

### 1.7.2 Program Components

- A. Database
- B. Pavement Inventory
- C. Pavement Structure
- D. Pavement Work History
- E. Pavement Condition Data



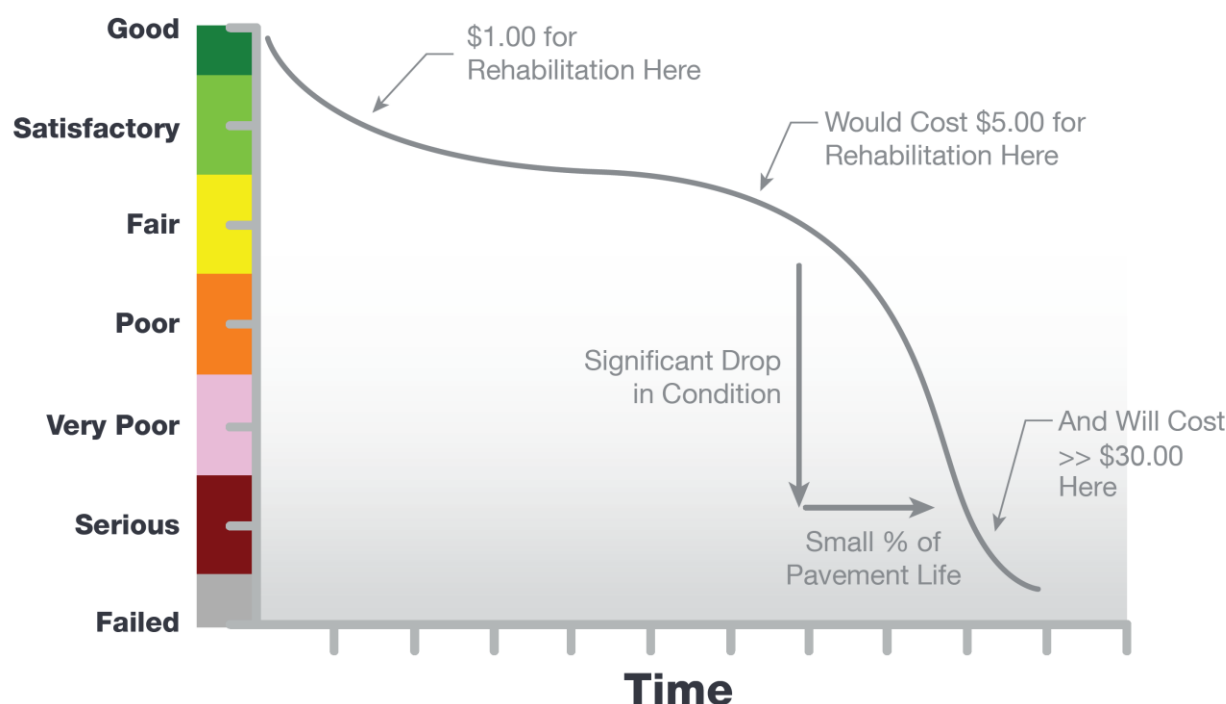


## F. Pavement Performance Modeling for the Prediction/Forecast of PCI

## G. Maintenance, Repair, and Major Rehabilitation Policies and Budget Simulation

A well-maintained network-level pavement management program may provide airport staff a better understanding of the airfield pavement performance for developing and planning for specific maintenance, repair, and major rehabilitation projects. The understanding of specific distress types and severities will assist the airport in addressing pavement maintenance and repair with the appropriate treatments as defined by the FAA Advisory Circular **150/5380-6C “Guidelines and Procedures for Maintenance of Airport Pavements.”** The development of projects with an understanding of system inventory, deterioration details, and pavement condition forecasts may assist airport staff in developing practical rehabilitation actions and budgets. Furthermore, the understanding of pavements’ past performance and forecasted condition may assist airport staff in addressing pavement rehabilitation in a timely and cost-effective manner. **Figure 1.7.2 (a) Typical Pavement Condition Life Cycle**, which is based on the FAA Advisory Circular **150/5380-7B “Airport Pavement Management Program (PMP).”** **Figure 1.7.2 (a) Typical Pavement Condition Life Cycle**, depicts a general duration of a pavement section and identifies the ideal condition to perform rehabilitative treatments at an optimal cost rather than allowing significant increase in rate of deterioration that would result in increased costs.

*Figure 1.7.2 (a) Typical Pavement Condition Life Cycle*



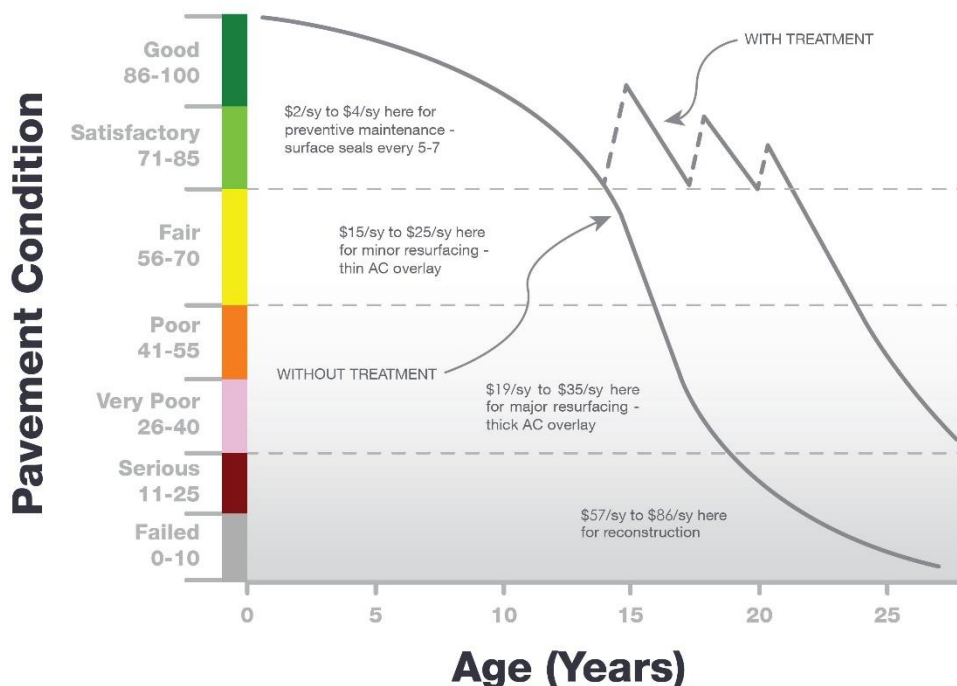
*\*Figure is for conceptual purposes only – unit costs are not specific to airfield pavements (AC vs PCC).*

**Figure 1.7.2 (b) General Pavement Treatments by Condition Range** depicts generic flexible asphalt concrete (AC) pavement treatments that are effective at specific condition ranges. This graphic is a general concept and will vary based on pavement surface type and overall



composition. The intent is to convey various treatment types that would be effective based on the condition of the pavement along the deterioration model.

*Figure 1.7.2 (b) General Pavement Treatments by Condition Range*



Pavement maintenance, repair, and major rehabilitation would be quite anticipatory if all pavements behaved as depicted in **Figures 1.7.2 (a) and 1.7.2 (b)**, however pavement condition performance vary significantly based on several factors. Factors that contribute to a pavement section's condition and deterioration performance may include: functional design life, material type, material construction quality, climatic conditions, aircraft loading type and frequency, non-aircraft loading type and frequency, maintenance history, subgrade conditions, and other infrastructure in the vicinity. The list of factors is not all-inclusive of all factors that may contribute to a pavement's life cycle, it is intended to clarify that unique conditions certainly will affect a pavement's deterioration.

**Figures 1.7.2 (c) and Figure 1.7.2 (d)** depict visual conditions of pavement facilities, for both AC and PCC respectively, with approximated PCI ranges and corresponding repair and rehabilitation measures.



Figure 1.7.2 (c) Flexible Asphalt Concrete









	PCI Range	Representative PCI	Representative Pavement Surface	Rehabilitation Activities
Routine Maintenance	86-100	90		Pavements with PCI values above 85, or 'Good', may require periodic joint/crack sealing and local patching.
Pavement Preservation	65-85	70		Pavements with PCI conditions ranging from 'Fair' to 'Satisfactory' may require surface treatments (seal coat), thin overlays, and/or joint/crack sealing.
Major Rehabilitation	40-64	50		Pavements that have deteriorated below a PCI 65 (but above 39), or within the range of 'Very Poor' to 'Fair' conditions, may require major rehabilitation such as pavement mill and overlay or partial full-depth reconstruction.
Major Reconstruction	0-39	15		Pavements that have deteriorated below a PCI 40, or within the range of 'Failed' to 'Very Poor' conditions, may require major reconstruction.

Figure 1.7.2 (d) Rigid Portland Cement Concrete

	PCI Range	Representative PCI	Representative Pavement Surface	Rehabilitation Activities
Routine Maintenance	86-100	90		Pavements with PCI values above 85, or 'Good', may require periodic joint/crack sealing and local patching.
Pavement Preservation	65-85	70		Pavements with PCI conditions ranging from 'Fair' to 'Satisfactory' may require patches and/or joint/crack sealing.
Major Rehabilitation	40-64	50		Pavements that have deteriorated below a PCI 65 (but above 39), or within the range of 'Very Poor' to 'Fair' conditions may require major rehabilitation such as slab replacement and PCC restoration activity.
Major Reconstruction	0-39	15		Pavements that have deteriorated below a PCI 40, or within the range of 'Failed' to 'Very Poor' conditions, may require major reconstruction.



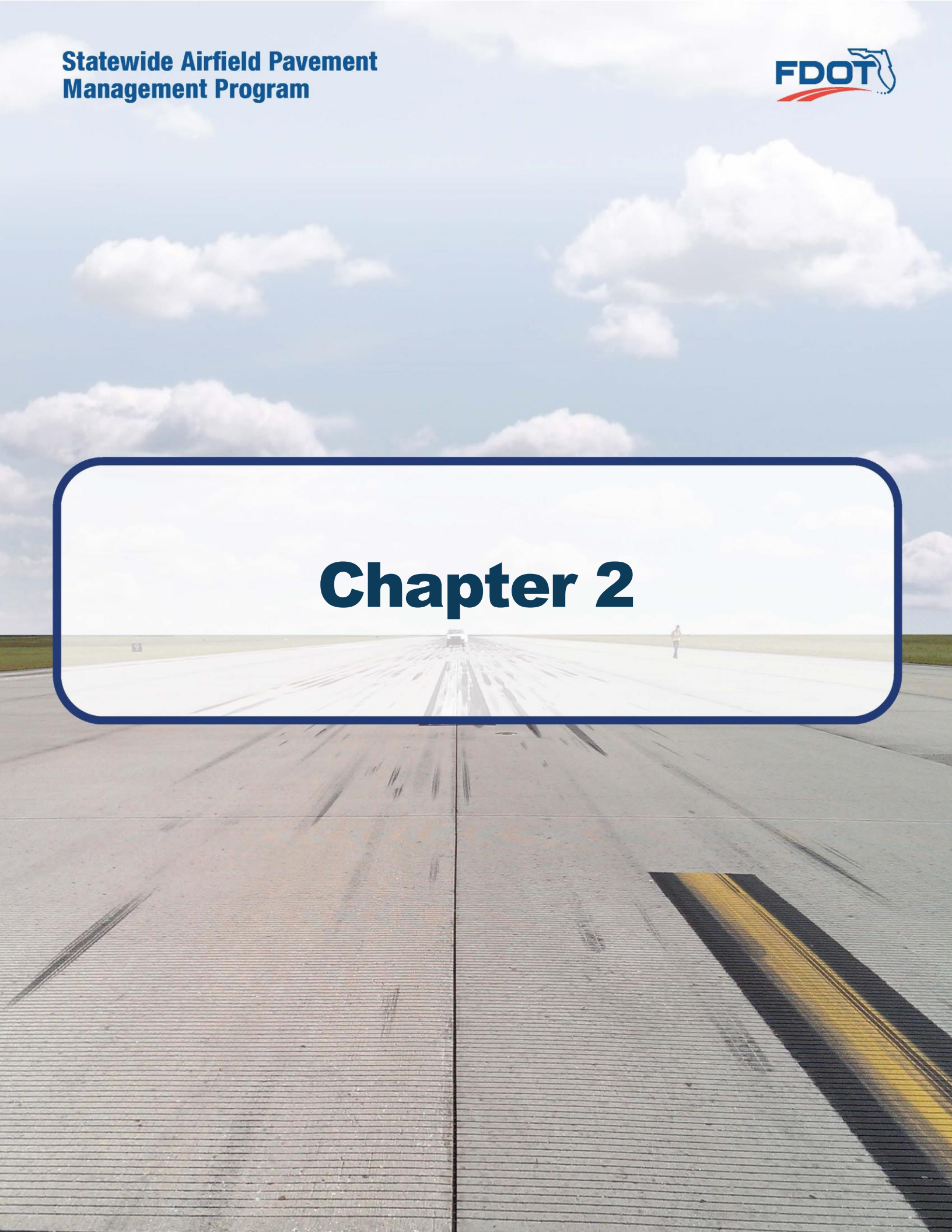


## 1.8 References

The following reference documents were referenced as specific guidelines and procedures for maintaining airport pavements; establishing an effective pavement maintenance program; and identifying specific pavement distresses, probable causes of distresses, inspection guidelines, and recommended methods of repair:

- ASTM D5340-12 “Standard Test Method for Airport Pavement Condition Index Surveys.”
- FAA Advisory Circular 150/5380-7B “Airport Pavement Management Program.”
- FAA Advisory Circular 150/5380-6C “Guidelines and Procedures for Maintenance of Airport Pavements.”
- FAA Advisory Circular 150/5320-6F “Airport Pavement Design and Evaluation.”
- Department of the Air Force, Air Force Civil Engineer Center “Engineering Technical Letter (ETL) 14-3: Preventive Maintenance Plan (PMP) for Airfield Pavements.”
- Unified Facilities Criteria (UFC) 3-260-16FA 16 “Airfield Pavement Condition Survey Procedures Pavements.”
- Unified Facilities Criteria (UFC) 3-260-03 “Airfield Pavement Evaluation.”
- Pavement Management for Airports, Roads, and Parking Lots 2<sup>nd</sup> Edition, M.Y. Shahin.

# Chapter 2





## Chapter 2 – Methodology

An effective pavement management program incorporates the regular collection of pavement condition information and communication of information to appropriate sponsors. This chapter of the report defines the specific methods utilized as part of the SAPMP System Update to meet the requirements of an effective pavement management system as defined by the FAA Advisory Circular **150/5380-7B “Airport Pavement Management Program (PMP).”**

### 2.1 Airfield Pavement Database

The SAPMP program has historically utilized PAVER™ (formerly MicroPAVER™); the current update has maintained the use of the PAVER™ 7.0 version of the software. The PAVER™ software application was developed by the U.S. Army Construction Engineering Research Laboratory sponsored by the FAA, Federal Highway Administration, U.S. Army, U.S. Air Force, and the U.S. Navy to meet the objectives of an effective pavement management system. The SAPMP consists of a network-level database of the airport's airfield pavement facilities that are part of the program. PAVER™ can achieve the following pavement management objectives: a manageable inventory system, the analysis of the current condition of pavements in accordance with the ASTM D5340, the development of pavement performance models to forecast conditions, and the development of maintenance, repair, and major rehabilitation recommendations based on budgetary scenarios.

PAVER™ inventory management is based on a tiered organizational structure that consists of networks, branches, and sections, with the section being the smallest unit of management. Critical elements of an effective pavement management program are maintained within the network-level PAVER™ database. These elements typically consist of pavement inventory characteristics, pavement structure, work history, historic condition records, and analytical customization.

The SAPMP System Update consisted of the conversion of the previous database from a PAVER™ version 6.5 to a version 7.0.

### 2.2 Airfield Pavement System Inventory

An airfield pavement system inventory typically maintains the location of all runways, taxiways, and aprons; geometric characteristics; type of pavement structure, year of construction and/or last major rehabilitation; and general composition details of the pavement.

The pavement inventory for an airport's airfield is an assembly of pavement infrastructure information that builds an inventory of branches and sections that codifies the airport's airfield pavement network. General geometry characteristics, estimated length, width, functional classification, pavement surface type, and operational function are among the characteristics identified at this initial phase in the pavement management process. The development of a pavement inventory that reasonably reflects the airport's airfield pavement facilities that are maintained by the airport provides a defined scope of the inspection and analysis efforts. As in the past, the SAPMP scope of work is specific to the airport-maintained airfield pavements as defined in the field network definition exhibits presented to current airport personnel.





A critical input to the pavement system inventory and network definition in the development of the SAPMP update is the date of last major rehabilitation/construction performed on the pavement assets that would set the asset at a PCI of 100 and a condition rating of Good. The airport provided a limited combination of record drawings, reports, and staff input that was pertinent information in developing the construction history of the airport's pavements from inception. Major rehabilitation/construction activities performed in the last 24-months or anticipated in the next 24-months are assumed to restore the PCI to 100. These activities include; pavement overlay, mill and replace, mill and overlay, new construction, and/or complete reconstruction.

Aerial imagery was obtained through the FDOT Surveying & Mapping Office's *Aerial Photo Look Up System (APLUS)*. This spatially projected imagery was utilized with computer-aided drafting software (AutoCAD) in concert with geographical information system software (ArcGIS) to develop a planning-level representative model that reasonably reflects the pavement assets at the airport.

### 2.2.1 Pavement Management Program Network Definition Terminology

There are several terms that are common in the communication of the results of the SAPMP System Update, these terms are defined as follows:

#### Pavement Network

A pavement network is a logical unit for organizing pavements into a structure for pavement management. A network will typically consist of one or more pavement *branches*, which are typically comprised of one or many pavement *sections*. The network is the starting point of the hierarchy of pavement management organization. For example, a network can be all the pavements within an airport's airfield or all the pavements in a statewide program. For the FDOT SAPMP, a network represents an individual airport's airfield pavement facilities maintained by the airport.

The SAPMP System Update consists of research and evaluation of existing record documentation for the participating airports' airfield facilities. The pavement network is typically limited to the pavement facilities subject to aircraft use that is also maintained by the airport owner and eligible for public funding.

#### Pavement Branch

A pavement branch, also known as a facility, is a logical unit of generally identifiable pavement of a network with distinct functional classification. For example, within an airfield each runway, taxiway, or apron is considered a branch. A branch must consist of at least one section.

#### Pavement Section

A pavement section, also known as a feature, is the most specific management unit when considering the application and selection of maintenance, repair, and/or major rehabilitation treatments on an area of pavement within a branch. Each branch consists of at least one section, but may consist of more if pavement feature characteristics are distinct throughout the branch. Characteristics considered when subdividing branches into sections include, but are not limited to: pavement structure, type, age, condition, and function; traffic composition and frequency (current and future); geometric location; construction history; and other related



infrastructure features (e.g. drainage). A pavement section is defined as a subordinate of a pavement branch, which is a subordinate of a “parent” pavement network.

## Pavement Sample Unit

A pavement sample unit is a subdivision of a pavement section that has a standard size range: twenty (20) continuous slabs ( $\pm 8$  slabs) for Portland Cement Concrete (PCC) pavement and 5,000 contiguous square feet ( $\pm 2,000$  ft<sup>2</sup>) for flexible asphalt concrete (AC) or porous friction course pavements.

*Table 2.2.1 Airfield Pavement Database Network Definition Terminology*

PMS Network Level	Common Definition	Airport Example
<b>Network</b>	Overall pavement assets maintained by the Airport	“Tallahassee International Airport – Airfield Pavements”
<b>Branch Name</b>	Commonly defined asset name as established by Airport and by use	“Runway 18-36”
<b>Branch ID</b>	Codified shorthand name for commonly defined asset established for database identification	“RW 18-36” RW, Branch Use, “Runway” 18-36, Runway Facility
<b>Section ID</b>	Codified identification for pavement asset that is distinct by the following: <ul style="list-style-type: none"> <li>• Pavement Composition</li> <li>• Construction Work History</li> <li>• Aircraft Traffic</li> <li>• Condition Records</li> </ul>	“6105”
<b>Sample Unit</b>	A numeric identification of an area of pavement (5,000 $\pm$ 2,000 SF of AC or 20 $\pm$ 8 slabs of PCC) that has been inspected in accordance with ASTM D5340-12.	“300”



## 2.3 Airfield Pavement Structure

### 2.3.1 Pavement Structure Types

Airport airfield pavements are constructed to provide adequate support for the loads imposed by aircraft and produce a firm, stable, smooth, all-year, all-weather surface free of debris or other particles that may be blown or dislocated by propeller wash or jet blast. Typical pavement planning and design requires coordination of factors that include but are not limited to; subgrade conditions, material layer types, aircraft fleet mix (type, frequency, and traffic growth), and functional use. A pavement structure is composed of constructed layers that consist of subgrade, subbase, base course, structural courses, and surfaces courses. For the FDOT SAPMP, two major pavement structure types are classified for evaluation and analysis: Flexible Asphalt Concrete Surface and Rigid Portland Cement Concrete Surface. Additionally, Composite Structures known as Whitetopping Pavements are also present at limited airports within the Florida Airports System; these unique pavement structures are evaluated separately.

#### Flexible Asphalt Concrete Surface

A pavement comprised of aggregate mixture with an asphalt cement binder. The FDOT SAPMP consists of three (3) asphalt concrete surface types: Asphalt Concrete (AC), Asphalt Concrete Overlaid on Asphalt Concrete (AAC), and Asphalt Concrete Overlaid on Portland Cement Concrete (APC).

##### *Asphalt Concrete (AC)*

A flexible pavement section consisting of aggregate mixture with asphalt cement binder layered on engineered base course material that is layered on subbase and subgrade soil material.

##### *Asphalt Concrete Overlaid on Asphalt Concrete (AAC)*

A flexible pavement section consisting of aggregate mixture with asphalt cement binder layered on an existing flexible AC pavement section. Flexible airfield pavement sections are AAC when a pavement rehabilitation consists of a pavement milling operation and a resurfacing of asphalt layers; or a direct overlay of asphalt concrete without surface preparation.

##### *Asphalt Concrete Overlaid on Portland Cement Concrete (APC)*

A flexible pavement section consisting of aggregate mixture with asphalt cement binder layered on an existing Rigid PCC pavement section. This unique pavement composition may result in distinct pavement distress manifestations known as reflective joint cracking.





## Rigid Portland Cement Concrete Surface

A pavement comprised of aggregate mixture with a Portland Cement binder. The FDOT SAPMP recognizes Portland Cement Concrete (PCC) as the primary rigid pavement section.

### *Portland Cement Concrete (PCC)*

A rigid pavement section composed of Portland cement concrete placed on a granular or treated base course that is supported on a compacted subgrade. The concrete surface must provide a texture of nonskid qualities, prevent the infiltration of surface water into the subgrade, and provide structural support to the airplanes. Rigid pavement construction requires the layout of appropriately designed joint spacing.

## Composite Structure – Whitetopping Pavement

A composite pavement comprised of relatively thin Portland Cement Concrete overlaid on an existing flexible asphalt concrete pavement structure. There are three (3) types of Whitetopping Pavements; Conventional (WHT), Thin (TWT), and Ultra-Thin (UTW).

### *Conventional Whitetopping (WHT)*

A composite pavement structure consisting of a modified PCC overlaid on an existing flexible AC pavement section area. The modified PCC layer is typically greater than 8 inches in thickness.

### *Thin Whitetopping (TWT)*

A composite pavement structure consisting of a modified PCC overlaid on an existing flexible asphalt concrete pavement section. The modified PCC layer is typically between 4 and 8 inches in thickness.

### *Ultra-Thin Whitetopping (UTW)*

A composite pavement structure consisting of a modified PCC overlaid on an existing flexible asphalt concrete pavement section. The Portland Cement Concrete layer is typically between 2 and 4 inches in thickness.



## 2.4 Airfield Pavement Work History

### 2.4.1 Airfield Pavement Record Keeping

It is strongly recommended that airports maintain records of all airfield construction and maintenance related to the pavement facilities. A history of all maintenance and repair performed and its associated costs (construction and soft costs) can provide valuable information on the effectiveness of various treatments on pavements. An airport should maintain detailed records of maintenance (routine, emergency, and proactive) activities. The records should consist of the following:

1. Location and Limits of Work.
2. Types and Severity of Distresses Repaired.
3. Type of Work.
4. Cost of Work.
5. Supporting Documents (contract documents, construction drawings, specifications, bid tabulations, repair product, photograph records, etc.).

## 2.5 Airfield Pavement Traffic

A pavement section is typically designed to meet the needs of the user (airlines, air cargo, general aviation, and/or military) in providing a safe, smooth, operational surface. Pavement deterioration generally occurs gradually through increased roughness and/or fatigue cracking caused by successive and heavy aircraft traffic.

This study does not consist of a study or analysis of each individual airport's airfield aircraft fleet mix or traffic operations. However, it is strongly recommended that airports incorporate the requirements of FAA Advisory Circular **150/5320-6F Airport Pavement Design and Evaluation** when developing design-level rehabilitation activities. The AC provides guidance on incorporation of aircraft traffic fleet mix data.

## 2.6 Airfield Pavement Condition Index (PCI) Survey

### 2.6.1 PCI Survey Methodology

In adherence to the FAA Advisory Circular **150/5380-7B "Airport Pavement Management Program (PMP),"** the FDOT SAPMP utilizes the PCI Survey Method of inspection to collect pavement distress data and analyze the condition. The PCI Survey Inspection procedure is a visual statistical sampling of pavements for recording primary distress types (e.g. cracking and deformation), associated severities, and quantities as defined by the ASTM D5340-12. This effort is the primary means of obtaining and recording pavement distress data. The survey inspection consists primarily of visual inspection of pavement surfaces for signs of distress and deterioration resulting from loading (aircraft) and environmental influences.

A visual pavement condition survey provides an indication of the cause and rate of deterioration of a pavement section from a functional point of view and can be an indicator of structural distress. The functional condition analysis assesses the rating of the operational surface. A visual PCI Survey Inspection does not predict the remaining structural life of a pavement section, or its ability to support loads. The functional condition determined by the PCI method



can provide a cost-effective means to plan for pavement rehabilitation projects. The timely application of pavement rehabilitation may lead to the extension of functional life of individual pavement sections. This method varies from structural evaluation; functional condition is limited to visually observed distresses and indicative modes of pavement deterioration. A formal structural evaluation analyzes subsurface conditions, material characteristics, and qualitative pavement structure attributes. A structural evaluation may consist of; subsurface geotechnical exploration, falling weight deflectometer testing, petrographic testing, material coring, and/or flexural testing.





## 2.6.2 Pavement Distress Types

For each section, the severity and quantity of defined distresses are recorded and then analyzed in accordance with the ASTM D5340-12 standard. The standard identifies 17 distinct flexible asphalt concrete distress types and 16 distinct rigid Portland Cement Concrete distress types.

*Table 2.6.2 (a) Pavement Distress Types – Flexible Asphalt Concrete-Surfaced Airfields*

Distress	Common Distress Mechanisms
Alligator Cracking	Load / Fatigue
Bleeding	Construction Quality/ Mix Design
Block Cracking	Climate / Age
Corrugation	Load / Construction Quality
Depression	Load / Subsurface
Jet Blast	Aircraft
Joint Reflection - Cracking	Climate / Subsurface Pavement / Traffic Load
Longitudinal/Transverse Cracking	Climate / Construction Quality
Oil Spillage	Aircraft / Vehicle
Patching	Utility / Pavement Repair / Age
Polished Aggregate	Repeated Traffic Loading
Raveling	Climate / Age
Rutting	Load / Fatigue
Shoving	PCC Pavement Growth / Movement
Slippage Cracking	Load / Pavement Bond / Mix Design
Swelling	Climate / Subsurface
Weathering	Climate / Age



*Table 2.6.2 (b) Pavement Distresses Possible Causes – Flexible Asphalt Concrete-Surfaced Airfields*

Classification by Possible Causes			
Load	Climate / Durability	Moisture / Drainage	Others
<ul style="list-style-type: none"> <li>Alligator Cracking</li> <li>Corrugation</li> <li>Depression</li> <li>Patching of Load-based distress</li> <li>Polished Aggregate</li> <li>Rutting</li> <li>Slippage Cracking</li> </ul>	<ul style="list-style-type: none"> <li>Bleeding</li> <li>Block Cracking</li> <li>Joint Reflection Cracking</li> <li>L/T Cracking</li> <li>Patching of climate / durability-caused distresses</li> <li>Shoving from PCC</li> <li>Raveling</li> <li>Weathering</li> <li>Swelling</li> </ul>	<ul style="list-style-type: none"> <li>Alligator Cracking</li> <li>Depression</li> <li>Patching of moisture / drainage caused distress</li> <li>Swelling</li> <li>Raveling</li> <li>Weathering</li> </ul>	<ul style="list-style-type: none"> <li>Oil Spillage</li> <li>Jet Blast Erosion</li> <li>Polished Aggregate</li> </ul>

*Table 2.6.2 (c) Pavement Distresses Possible Effects – Flexible Asphalt Concrete-Surfaced Airfields*

Classification by Possible Effects			
Roughness	Skid / Hydroplaning Potential	FOD Potential	Rate of Deterioration and Maintenance Requirements
<ul style="list-style-type: none"> <li>Corrugation</li> <li>Depression</li> <li>Rutting</li> <li>Shoving of asphalt pavement</li> <li>Swelling</li> <li>Raveling</li> <li>Weathering</li> </ul>	<ul style="list-style-type: none"> <li>Bleeding</li> <li>Depression</li> <li>Polished Aggregate</li> <li>Rutting</li> </ul>	<ul style="list-style-type: none"> <li>Block Cracking</li> <li>Joint Reflection Cracking</li> <li>L/T Cracking</li> <li>Slippage Cracking</li> </ul>	<ul style="list-style-type: none"> <li>All Distresses</li> </ul>



Table 2.6.2 (d) Pavement Distresses – Rigid Portland Cement Concrete-Surfaced Airfields

Distress	Common Distress Mechanisms
Blowup	Climate / ASR
Corner Break	Load Repetition / Curling Stresses
Linear Cracking	Load Repetition / Curling Stresses / Shrinkage Stresses
Durability Cracking	Freeze-Thaw Cycling
Joint Seal Damage	Material Deterioration / Construction Quality / Age
Small Patch	Pavement Repair
Large Patch/Utility Cut	Utility / Pavement Repair
Popout	Freeze-Thaw Cycling / ASR / Material Quality
Pumping	Load Repetition / Poor Joint Sealant
Scaling	Construction Quality / Freeze-Thaw Cycling
Faulting	Subgrade Quality / ASR / Inadequate Load Transfer
Shattered Slab	Overloading
Shrinkage Cracking	Construction Quality / Climate
Joint Spalling	Load Repetition / Infiltration of Incompressible Material / Deterioration of Dowel (Load Transfer) Bars
Corner Spalling	Load Repetition / Infiltration of Incompressible Material / Deterioration of Dowel (Load Transfer) Bars
Alkali-Silica Reaction (ASR)	Construction Quality / Climate / Chemical Reaction





*Table 2.6.2 (e) Pavement Distresses Possible Causes – Rigid Portland Cement Concrete-Surfaced Airfields*

Classification by Possible Causes			
Load	Climate / Durability	Moisture / Drainage	Others
<ul style="list-style-type: none"> <li>• Corner Break</li> <li>• Shattered Slab</li> <li>• L/T/D Cracking</li> <li>• Pumping</li> <li>• Patching of Load-associated distress</li> <li>• Spalling</li> </ul>	<ul style="list-style-type: none"> <li>• Blowup</li> <li>• "D" Cracking</li> <li>• Joint Seal Damage</li> <li>• Popouts</li> <li>• Scaling</li> <li>• Patch of Climate/Durability-associated distress</li> <li>• Shrinkage Cracking</li> <li>• Spalling</li> <li>• L/T/D Cracking</li> </ul>	<ul style="list-style-type: none"> <li>• Corner Break</li> <li>• Shattered Slab</li> <li>• Pumping</li> <li>• Patching of Moisture/Drainage-associated distress</li> </ul>	<ul style="list-style-type: none"> <li>• Settlement / Faulting</li> </ul>

*Table 2.6.2 (f) Pavement Distresses Possible Effects – Rigid Portland Cement Concrete-Surfaced Airfields*

Classification by Possible Effects			
Roughness	Skid / Hydroplaning Potential	FOD Potential	Rate of Deterioration and Maintenance Requirements
<ul style="list-style-type: none"> <li>• Blowup</li> <li>• Corner Break</li> <li>• L/T/D Cracking</li> <li>• Shattered Slab</li> <li>• Settlement / Faulting</li> <li>• Spalling</li> </ul>	<ul style="list-style-type: none"> <li>• Settlement / Faulting</li> <li>• Spalling</li> </ul>	<ul style="list-style-type: none"> <li>• Corner Break</li> <li>• L/T/D Cracking</li> <li>• "D" Cracking</li> <li>• Joint Seal Damage</li> <li>• Shattered Slab</li> <li>• Popouts</li> <li>• Scaling</li> </ul>	<ul style="list-style-type: none"> <li>• All distresses</li> </ul>



## 2.6.3 PCI Survey Inspection Procedures

### Inspection Sampling Rate

The FDOT SAPMP performs PCI Survey Inspections on sample units defined in the previous update. The sample units are subject to change at the discretion of the inspection personnel and/or to major pavement rehabilitation treatments. Furthermore, access to the sample units based on accessibility or impacts to operations may affect the overall sampling rate effort at each airport. The following **Tables 2.6.3 (a) and (b)** define the sampling criteria used by the FDOT SAPMP. A higher sampling rate may be utilized to achieve a greater statistical confidence should the airport have the available resources to perform PCI Survey Inspections independent of the FDOT SAPMP.

*Table 2.6.3 (a) Recommended Sample Rate Schedule for Flexible Asphalt Concrete*

Number of Total Sample Units in Section	Sample Units to Inspect	
	Runways	Taxiways, Aprons, and Others
1 - 4	1	1
5 - 10	2	1
11 - 15	3	2
16 - 30	5	3
31 - 40	7	4
41 - 50	8	5
51 or more	20% but $\leq 20$	10% but $\leq 10$

*Table 2.6.3 (b) Recommended Sample Rate Schedule for Rigid Portland Cement Concrete*

Number of Total Sample Units in Section	Sample Units to Inspect	
	Runways	Taxiways, Aprons, and Others
1 - 3	1	1
4 - 6	2	1
7 - 10	3	2
11 - 15	4	2
16 - 20	5	3
21 - 30	7	3
31 - 40	8	4
41 - 50	10	5
51 or more	20% but $\leq 20$	10% but $\leq 10$



#### 2.6.4 Updates to the ASTM D5340-12

Airfield pavement distresses and conditions were surveyed in accordance with the methods outlined in FAA Advisory Circular 150/5380-6C and ASTM D5340-12. These procedures define distress type, severity, and quantity for sampling areas within each defined pavement section area to analyze and determine the PCI value and condition rating. During the 2013-2015 System Update, the incorporation of the significant changes to the ASTM D5340 (version D5340-12) resulted in adjusted pavement condition indices on pavement sections subject to the distress types updated. Furthermore, the revision of the PCI deduction curves and the separation of distress types from the original, such as Weathering and Raveling, have in select cases increased the PCI value of the section without any rehabilitation performed.

##### *Flexible Asphalt Concrete Pavement Distress Updates*

The previous methodology which featured “(52) Weathering and Raveling” distress has been separated into two distresses “(52) Raveling” and “(57) Weathering.” Previously, areas that were recorded as “Weathering and Raveling” were considered as one distress with a high deduction. Based on the updated methodology, in certain situations where “Weathering” only exists and does not meet the definition of “Raveling,” the PCI deduction is not as high as the former “Weathering and Raveling.” Therefore, areas identified only as “(57) Weathering” based on current ASTM standards, which were previously identified as “(52) Weathering and Raveling,” may be subject to an improvement in PCI. In instances where pavement PCI has increased due to this update, it is not due to an improvement in actual condition, however indicative of the adjusted distress deterioration effects.

##### *Rigid Portland Cement Concrete Pavement Distress Updates*

The previous methodology defined “(70) Scaling” as a distress that consisted of surface deterioration caused by construction defects, material defects, and environmental factors. The distress included *Alkali-Silica Reaction*, also known as ASR. The current methodology has separated Alkali-Silica Reaction as a distress identified as “(76) Alkali-Silica Reaction / ASR.” As a result, the previous “(70) Scaling” numerical deduction contribution to the PCI has been reduced. Previous inspections that recorded “(70) Scaling,” and currently do not exhibit “(76) Alkali-Silica Reactivity / ASR” may potentially see an increase in PCI. Additionally, “(73) Shrinkage Cracks” has been redefined as “(73) Shrinkage Cracking”. Shrinkage Cracking is characterized in two forms; drying shrinkage and plastic shrinkage. Drying shrinkage occurs over time as moisture leaves the pavement, it develops when hardened pavement continues to shrink as excess water not needed for cement hydration evaporates. It forms when subsurface resistance to the shrinkage is present and may extend through the entire depth of the slab. Plastic shrinkage can be caused by both atmospheric conditions and construction. Plastic shrinkage caused by atmospheric conditions develops when there is rapid loss of water in the surface of recently placed pavement. High winds or low humidity are contributing factors to evaporation. These shrinkage cracks can appear as a series of parallel cracks, usually 1 to 3 feet apart and do not extend very deep into the pavement’s surface. Plastic shrinkage caused by construction can form from over finishing/overworking of the pavement during construction. These shrinkage cracks appear as a series of inter-connected hairline cracks, or pattern cracking, and are often observed throughout the majority of the slab surface. This condition is also referred to as map cracking or crazing.

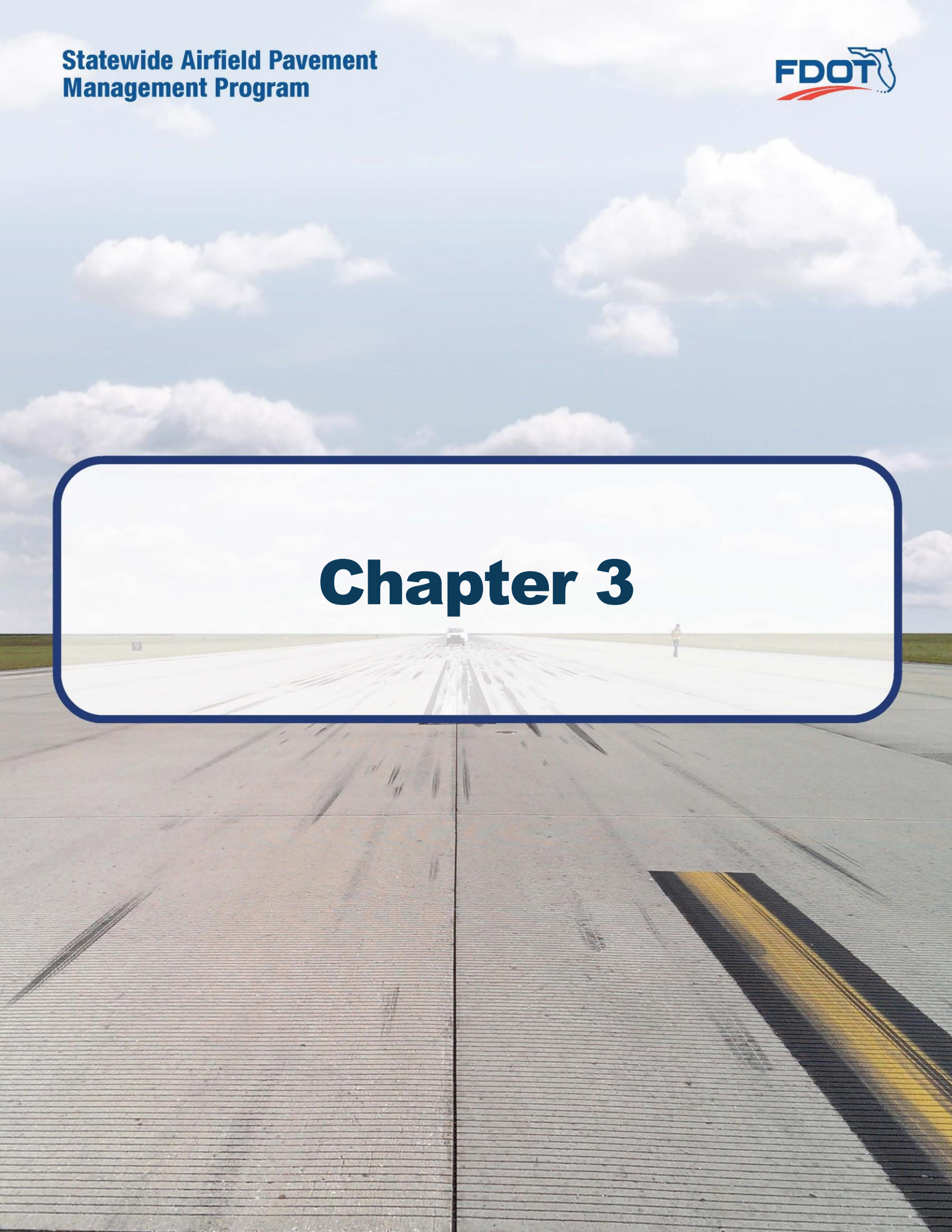




Table 2.6.4 Summary of Updates to ASTM D5340-12

Distress Updates to Reflect ASTM 5340-12				
Use and Surface Type	Updated Distress	Former Distress in Prior to 5340-10	Deduction Curve	Potential Effect
AC/AAC/APC Airfield	(52) Raveling - Low	(52) Weathering and Raveling - Low	No Change	N/A
	(52) Raveling - Medium	(52) Weathering and Raveling - Medium	No Change	N/A
	(52) Raveling - High	(52) Weathering and Raveling - High	No Change	N/A
	(57) Weathering - Low	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
	(57) Weathering - Medium	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
	(57) Weathering - High	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
PCC Airfield	(70) Scaling - Low	(70) Scaling, Map Cracking, and Cracking - Low	New	Increase in PCI with no maintenance
	(70) Scaling - Medium	(70) Scaling, Map Cracking, and Cracking - Medium	New	Increase in PCI with no maintenance
	(70) Scaling - High	(70) Scaling, Map Cracking, and Cracking - High	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Low	N/A – was part of 'Scaling, Map Cracking, and Cracking'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Medium	N/A – was part of 'Scaling, Map Cracking, and Cracking'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – High	N/A – was part of 'Scaling, Map Cracking, and Cracking'	New	Increase in PCI with no maintenance
	(73) Shrinkage Cracking	(73) Shrinkage Cracking	No Change	Prior distress types identified as 'Scaling, Map Cracking, and Cracking' may now be identified as 'Shrinkage Cracking'

# **Chapter 3**





# Chapter 3 – Airfield Pavement System Inventory

A significant element of an effective airfield pavement management system is the appropriate record keeping of changes due to construction or operational use of the pavement facilities. This chapter discusses the inventory data collected from the airport and summarizes network-level characteristics of the airport's airfield pavements. At the start of each FDOT SAPMP System Update, all airports are asked to review the existing Airfield Pavement Network Definition exhibit for accuracy. Furthermore, participating airports are asked to provide documentation for any recent or anticipated construction related to their airfield pavements.

## 3.1 Airfield Pavement Network Information

### 3.1.1 Previous and/or Anticipated Airfield Pavement Construction

Based on information provided by the airport, the following **Table 3.1.1** summarizes the airfield pavement construction projects that have been incorporated into the SAPMP database system since the 2013-2015 System Update. **Figure 3.1.1 (a)** and **Figure 3.1.1 (b)** provides an inset view of the 2019 Airfield Pavement Network Definition Exhibit and the 2019 Airfield Pavement System Inventory Exhibits that depict the updated network details for the airport reflected in the PAVER Database. Large format exhibits are referenced in **Appendix C Technical Exhibits**.

*Table 3.1.1 Previous and/or Anticipated Airfield Pavement Construction*

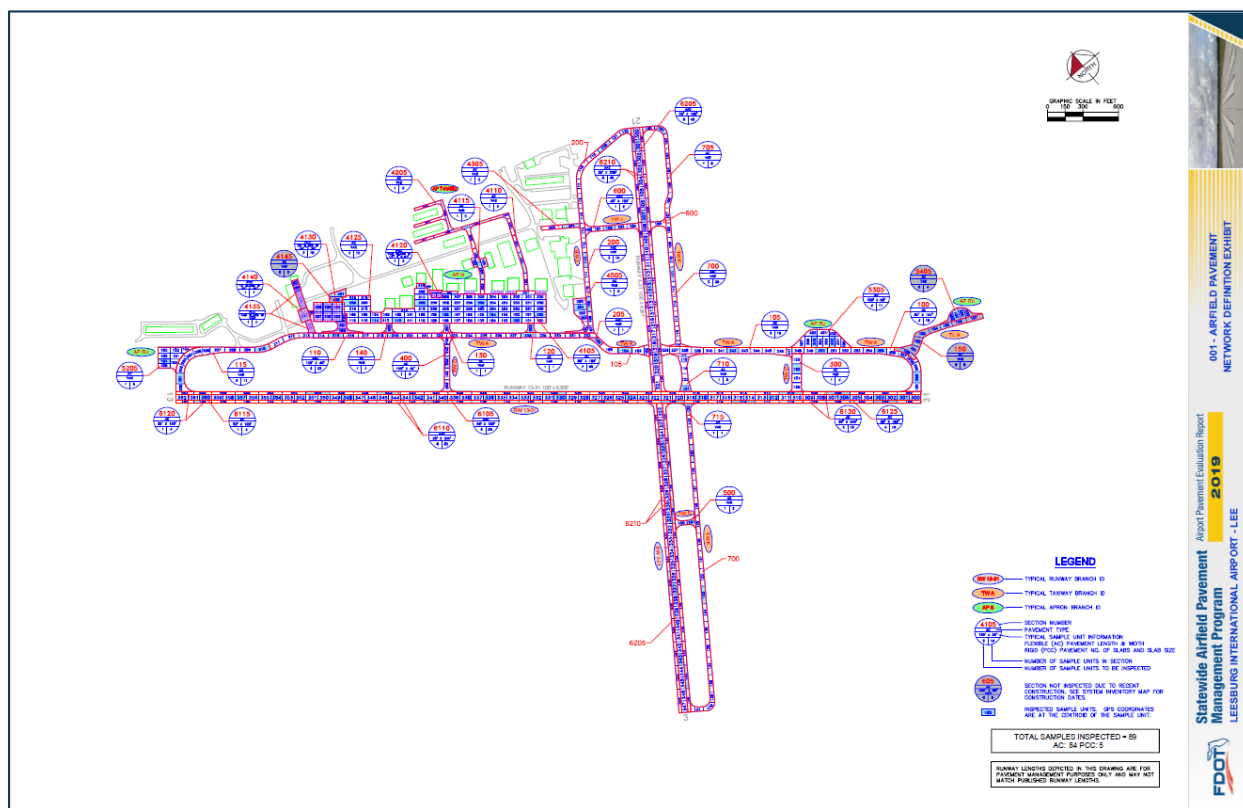
Year	General Work Description
2014	TW A, TW K - New Construction: 4" P-401, 6" P-211
2016	AP N - New Construction
2019	AP RU, TL A - New Construction

The airport provided a limited combination of record drawings, reports, and staff input that was pertinent information in developing the construction history of the airport's pavements from inception. Major rehabilitation/construction activities performed in the last 24-months or anticipated in the next 24-months are assumed to restore the PCI to 100. These activities include: pavement overlay, mill and replace, mill and overlay, new construction, and/or complete reconstruction. These pavements were not formally subject to a PCI Survey and actual conditions may vary. Furthermore, any localized maintenance or repair performed that would improve the PCI will be considered in the condition analysis, if performed within inspection areas.





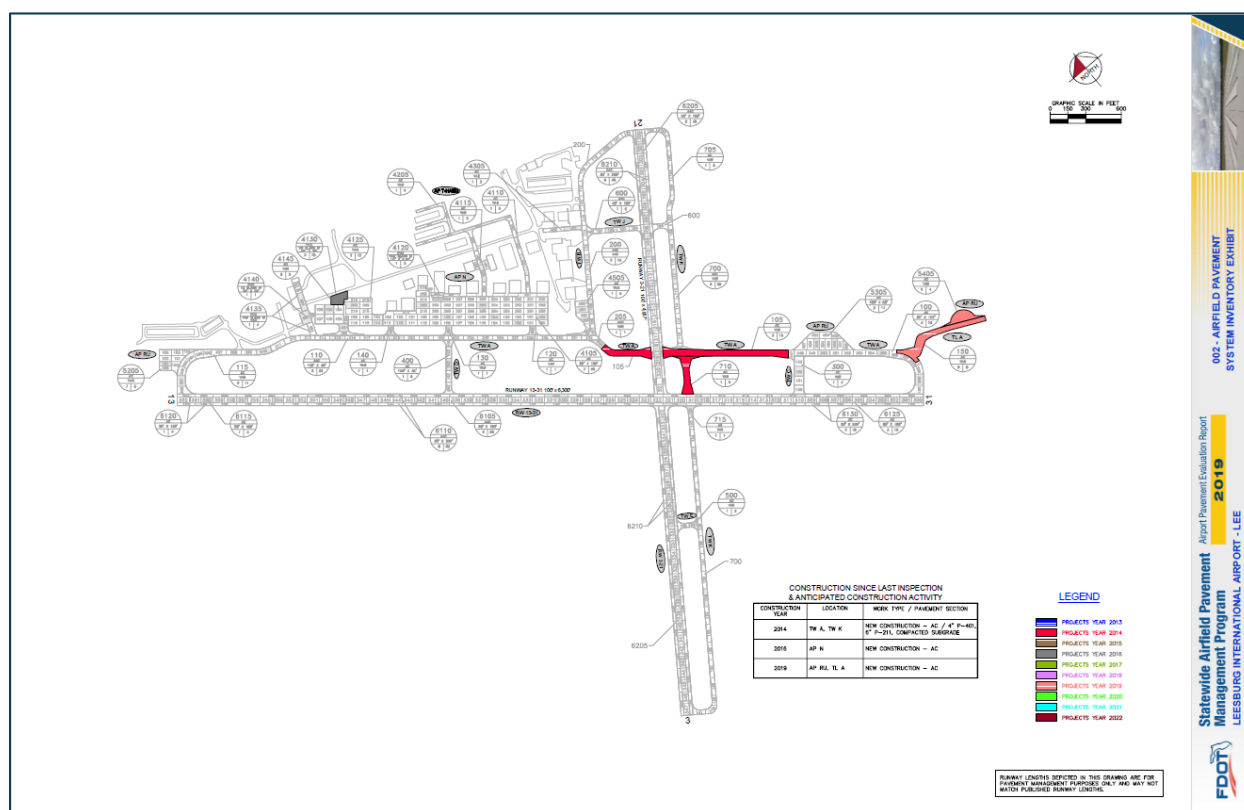
*Figure 3.1.1 (a) 2019 Airfield Pavement Network Definition Exhibit*



*The Airfield Pavement Network Definition Exhibit provides details to the PCI Survey inspection efforts. The exhibit identifies the pavement facilities, surface type, section definition, and sample unit delineation.*



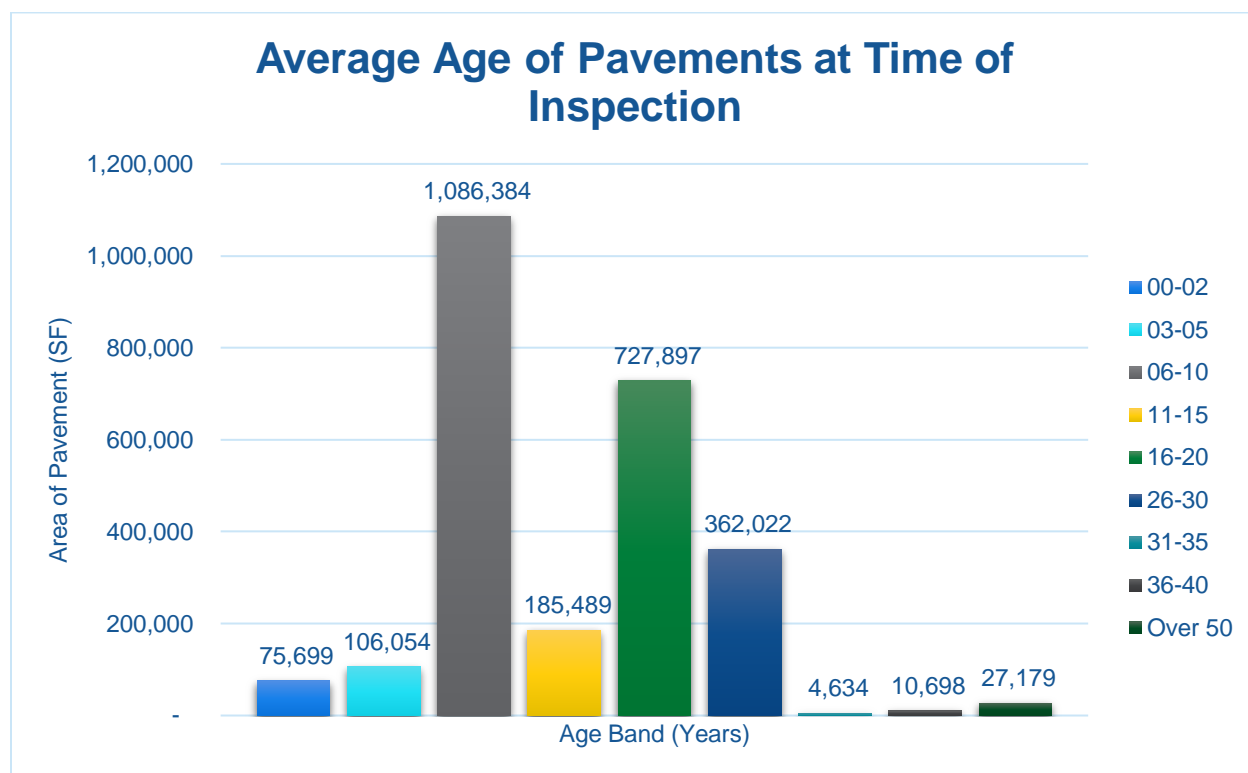
Figure 3.1.1 (b) 2019 Airfield Pavement System Inventory Exhibit



The Airfield Pavement System Inventory Exhibit provides details to the work history updates communicated by the Airport. The Exhibit provides the approximate limits of recent and/or anticipated construction on the airfield pavement facilities. The limits are based on documentation provided by the Airport and, if constructed, observed in the field.

### 3.1.2 Estimated Pavement Age

Standard pavement design practice considers a design life of a 20-year period. Design inputs typically require subgrade soil conditions, pavement section layer material characteristics, and anticipated loading (aircraft fleet mix) for the design-life period. Based on the review of the historic airfield pavement construction, **Figure 3.1.2** summarizes the average age of the pavement sections at the time of the PCI survey inspection. Age is determined to be the number of years since any major construction activity has occurred. This is intended to be a rough estimate based on interpretation of the limited data available at the time of report.

*Figure 3.1.2 Average Age of Pavements at Inspection*

The estimation of the pavement age is based on information requested and provided by participating airports. Additionally, data collected in the prior system updates since 1992 have been relied upon.

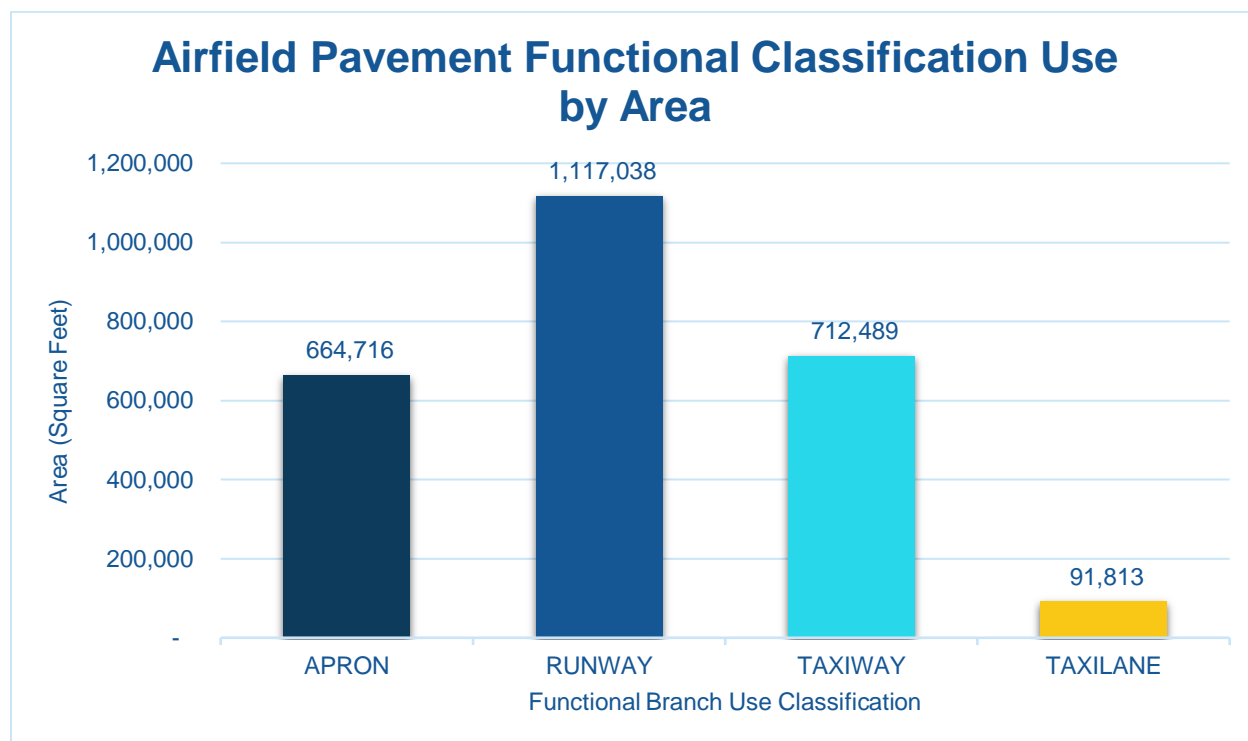




### 3.1.3 Functional Use Classification

Pavements are subject to varying aircraft loading patterns based on utilization and overall operations. For this SAPMP Update, the following categories of airfield functional use have been identified and associated with the following possible pavement branch facilities: Apron, Runway, Taxiway, and Taxilane. **Figure 3.1.3** summarizes the identified pavements' functional use by area in square feet. The pavement areas reviewed exclude shoulder pavement facilities.

*Figure 3.1.3 Airfield Pavement Functional Classification Use by Area*



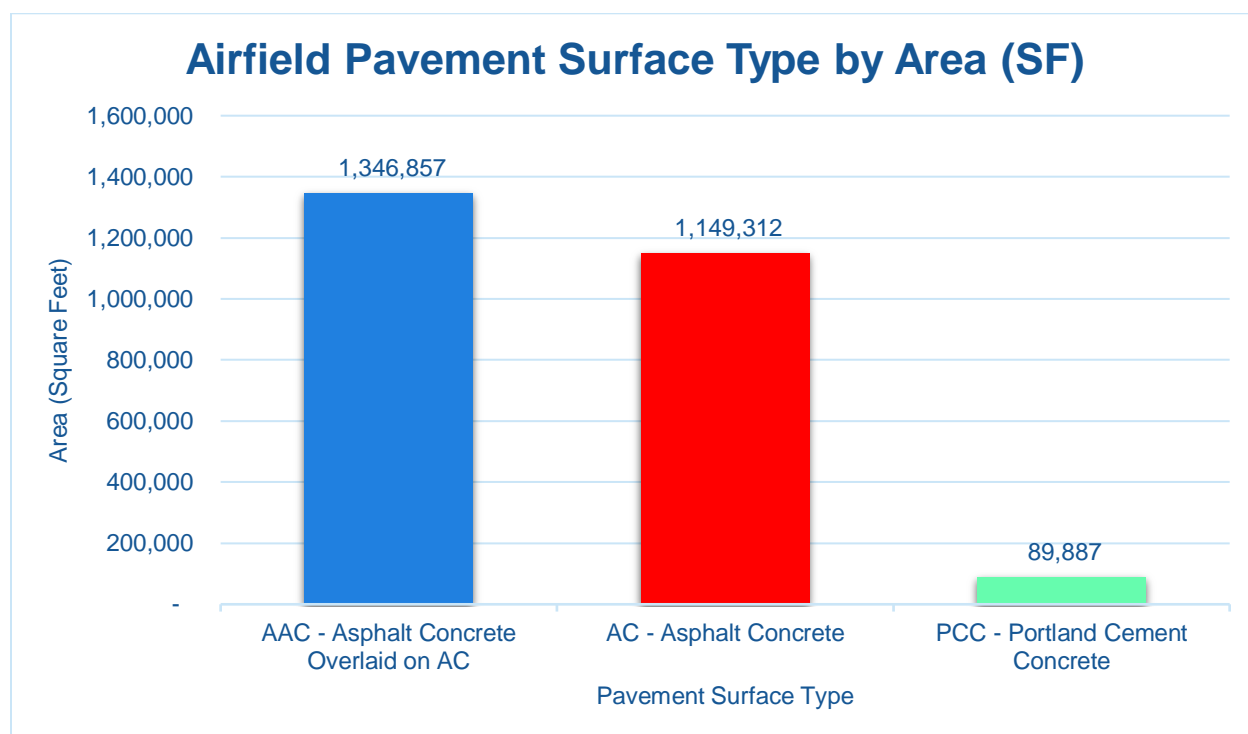


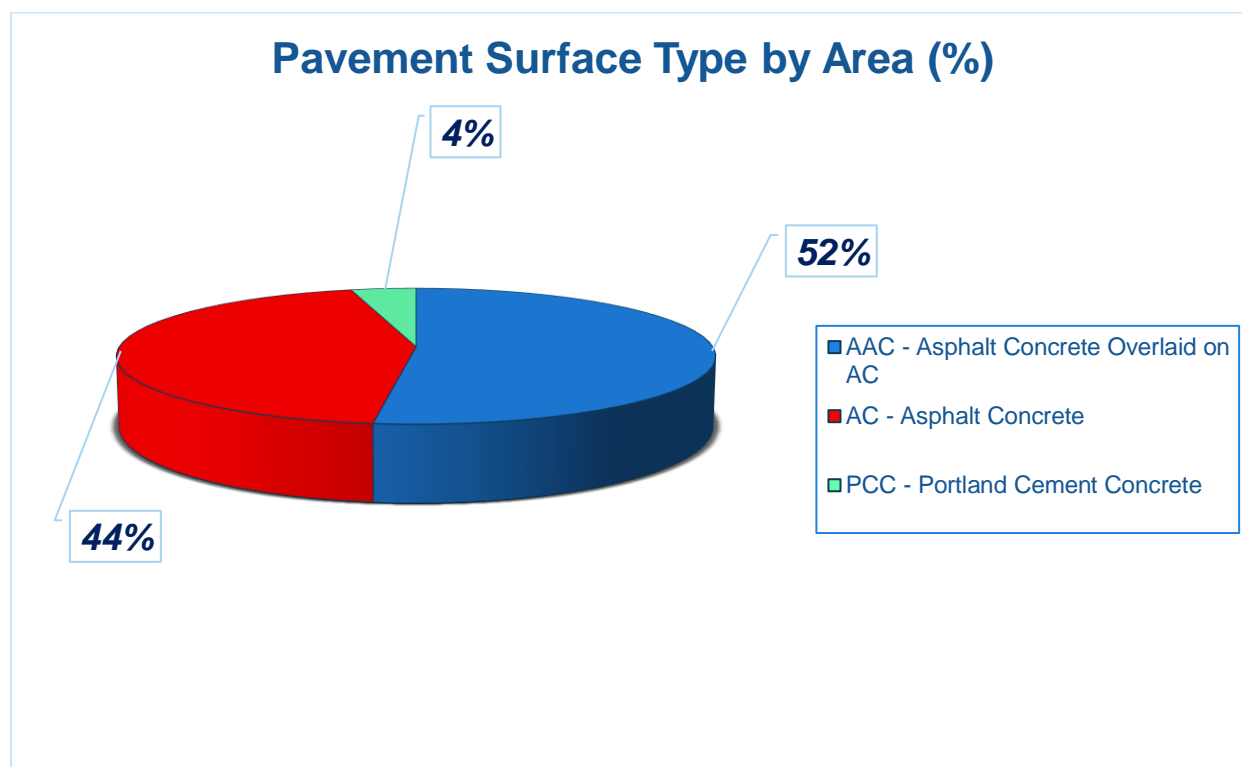
### 3.1.4 Pavement Surface Type

The airfield pavement facility surface types within the SAPMP include four common types of pavement: Portland cement concrete (PCC), asphalt concrete (AC), asphalt concrete overlaid on asphalt concrete (AAC), and asphalt concrete overlaid on Portland cement concrete (APC).

Based on the record documentation incorporated within the SAPMP database throughout the years, the pavement surface types have been assigned to the various pavement sections in accordance to its work history composition. The following **Figures 3.1.4 (a) and (b)** summarize the applicable pavement types observed at this specific airport's airfield.

Figure 3.1.4 (a) Pavement Surface Type by Area (SF)



*Figure 3.1.4 (b) Pavement Surface Type by Area (%)*

### 3.1.5 Pavement System Inventory Details

The following **Table 3.1.5** displays the section-level details assembled as part of this update. The section-level details are based on the record documentation provided by the airports to FDOT and from SAPMP System Updates. The details assembled rely on the accuracy and the adequacy of data provided; however, it should be noted that characteristics such as pavement areas may be based on aerial interpretation of spatially projected imagery. The accuracy of data is presented with the intention of a network planning-level document; should the airport elect to perform rehabilitation work, it is recommended that further investigation be performed at the project level for construction purposes.

In summary, the scope of the pavement inventory update resulted in the updating of select existing pavement geometry and the development of an AutoCAD model with spatial projection for use within GIS. **Appendix A** includes the Airfield Pavement Network Definition Exhibit and the Airfield Pavement System Inventory Exhibit which visually summarize the results of the Airfield Pavement System Inventory analysis and reporting.



Table 3.1.5 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
LEE	NORTH APRON	AP N	APRON	4105	804	200	323,324	AC	1/1/1989
LEE	NORTH APRON	AP N	APRON	4120	200	30	6,600	PCC	12/25/2000
LEE	NORTH APRON	AP N	APRON	4125	293	235	59,690	AC	1/1/2005
LEE	NORTH APRON	AP N	APRON	4130	304	160	56,108	PCC	1/1/2008
LEE	NORTH APRON	AP N	APRON	4135	260	50	18,579	PCC	1/1/1942
LEE	NORTH APRON	AP N	APRON	4140	66	200	8,600	PCC	1/1/1942
LEE	NORTH APRON	AP N	APRON	4145	138	94	11,497	AC	7/1/2016
LEE	RE-FUELING APRON	AP RFUEL	APRON	4505	200	100	25,329	AC	1/1/1989
LEE	RUNUP APRON	AP RU	APRON	5205	235	175	36,679	AC	1/1/2008
LEE	RUNUP APRON	AP RU	APRON	5305	410	160	54,952	AC	1/1/2009
LEE	RUNUP APRON	AP RU	APRON	5405	180	100	18,231	AC	1/1/2019
LEE	APRON T-HANGAR	AP T-HANG	APRON	4205	1,500	25	45,127	AC	1/1/2003
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6105	5,000	100	250,000	AAC	1/1/2000
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6110	5,000	100	250,000	AAC	1/1/2000
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6115	300	50	15,000	AC	12/12/2009
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6120	300	50	15,000	AC	12/12/2009
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6125	1,000	50	50,000	AC	1/1/2009
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6130	1,000	50	50,000	AC	1/1/2009
LEE	RUNWAY 3-21	RW 3-21	RUNWAY	6205	3,900	75	242,833	AAC	1/1/2011
LEE	RUNWAY 3-21	RW 3-21	RUNWAY	6210	4,857	25	244,205	AAC	1/1/2011
LEE	TAXILANE A	TL A	TAXILANE	150	750	40	45,971	AC	1/1/2019
LEE	TAXILANE TO APRON	TL APRON	TAXILANE	4305	300	35	10,698	AC	1/1/1982
LEE	TAXILANE TO T-HANGARS	TL T-HANG	TAXILANE	4110	300	30	14,559	AC	12/25/2000
LEE	TAXILANE TO T-HANGARS	TL T-HANG	TAXILANE	4115	300	30	20,585	AC	12/25/2000
LEE	TAXIWAY A	TW A	TAXIWAY	100	1,400	50	76,252	AC	1/1/2009



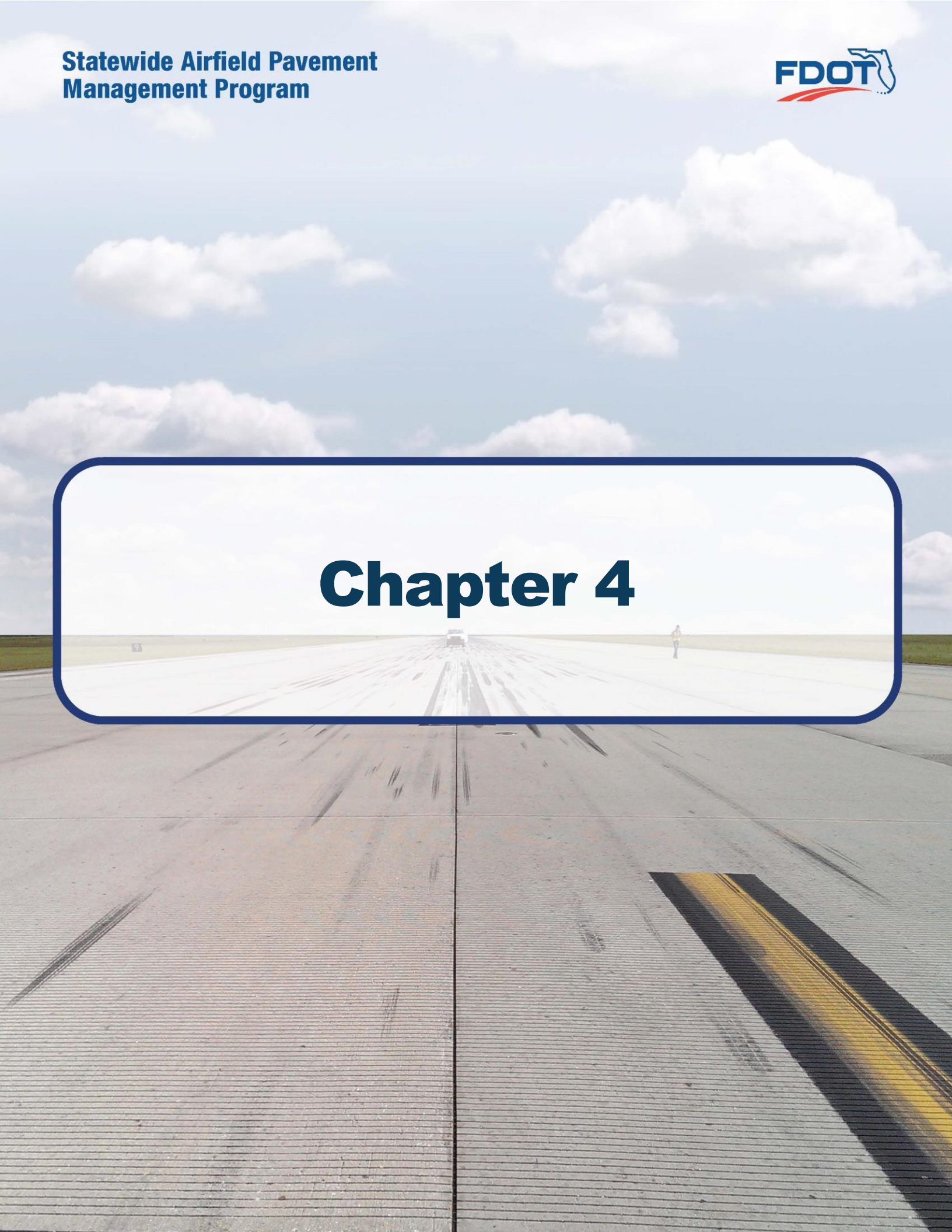


Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
LEE	TAXIWAY A	TW A	TAXIWAY	105	1,460	50	82,235	AC	1/1/2014
LEE	TAXIWAY A	TW A	TAXIWAY	110	3,790	50	113,871	AAC	1/1/2000
LEE	TAXIWAY A	TW A	TAXIWAY	115	1,400	50	62,194	AC	1/1/2009
LEE	TAXIWAY A1	TW A1	TAXIWAY	120	80	50	4,409	AC	1/1/1989
LEE	TAXIWAY A2	TW A2	TAXIWAY	130	80	40	4,287	AC	1/1/1989
LEE	TAXIWAY A3	TW A3	TAXIWAY	140	80	30	4,673	AC	1/1/1989
LEE	TAXIWAY B	TW B	TAXIWAY	200	1,040	40	76,570	AAC	1/1/2011
LEE	TAXIWAY B	TW B	TAXIWAY	205	91	50	4,534	AAC	1/1/2002
LEE	TAXIWAY C	TW C	TAXIWAY	300	320	80	25,917	AC	1/1/2009
LEE	TAXIWAY D	TW D	TAXIWAY	400	450	55	22,621	AC	1/1/2002
LEE	TAXIWAY E	TW E	TAXIWAY	500	200	45	8,617	AC	1/1/2011
LEE	TAXIWAY J	TW J	TAXIWAY	600	430	40	26,600	AAC	1/1/2011
LEE	TAXIWAY K	TW K	TAXIWAY	700	3,950	35	138,244	AAC	1/1/2011
LEE	TAXIWAY K	TW K	TAXIWAY	705	800	60	33,012	AC	1/1/2004
LEE	TAXIWAY K	TW K	TAXIWAY	710	325	70	23,819	AC	1/1/2014
LEE	TAXIWAY K	TW K	TAXIWAY	715	100	35	4,634	AC	1/1/1986



PAGE INTENTIONALLY LEFT BLANK

# Chapter 4





# Chapter 4 – Airfield Pavement Condition

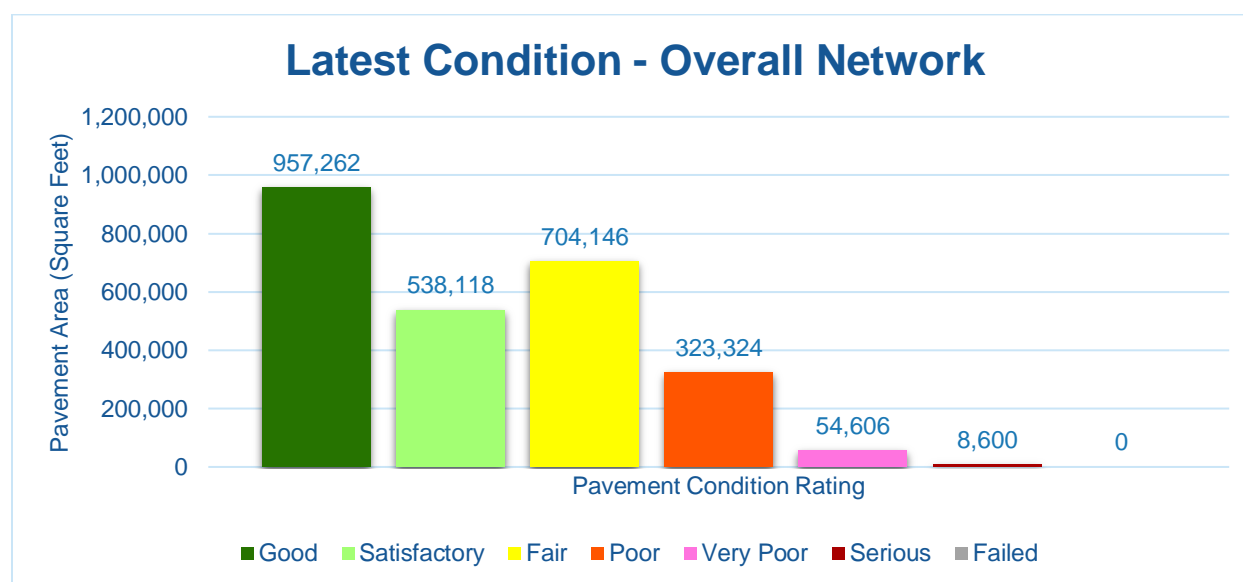
The examination of specific distress types (with causes attributed to load, climate, or other defined distress mechanism), determination of the severity of distress, and determination of the quantity of distress manifestation are required in the computation of a PCI value. The PCI provides valuable information that can be used to determine the existing condition of the pavement, possible cause of the pavement deterioration, and eventually aid in the planning of the rehabilitation of pavements. It should be noted that the PCI method of pavement condition evaluation is strictly a visual and functional evaluation. Further evaluation of the pavement condition may be necessary for design and/or project-level determination of pavement rehabilitation.

## 4.1 Airfield Pavement Condition Index (Latest Inspection)

### 4.1.1 Network-Level Analysis

The following **Figure 4.1.1** summarizes the network-level pavement condition analysis based on the most recent PCI Survey inspection results.

*Figure 4.1.1 Latest Condition – Overall Network*



### 4.1.2 Branch-Level Analysis

The following **Figures 4.1.2 (a) through (d)** summarize the branch-level pavement condition analysis based on the most recent PCI Survey inspection results; the following Figures provide overall branch-level conditions by branch use.





Figure 4.1.2 (a) Latest Condition – Runway Pavements

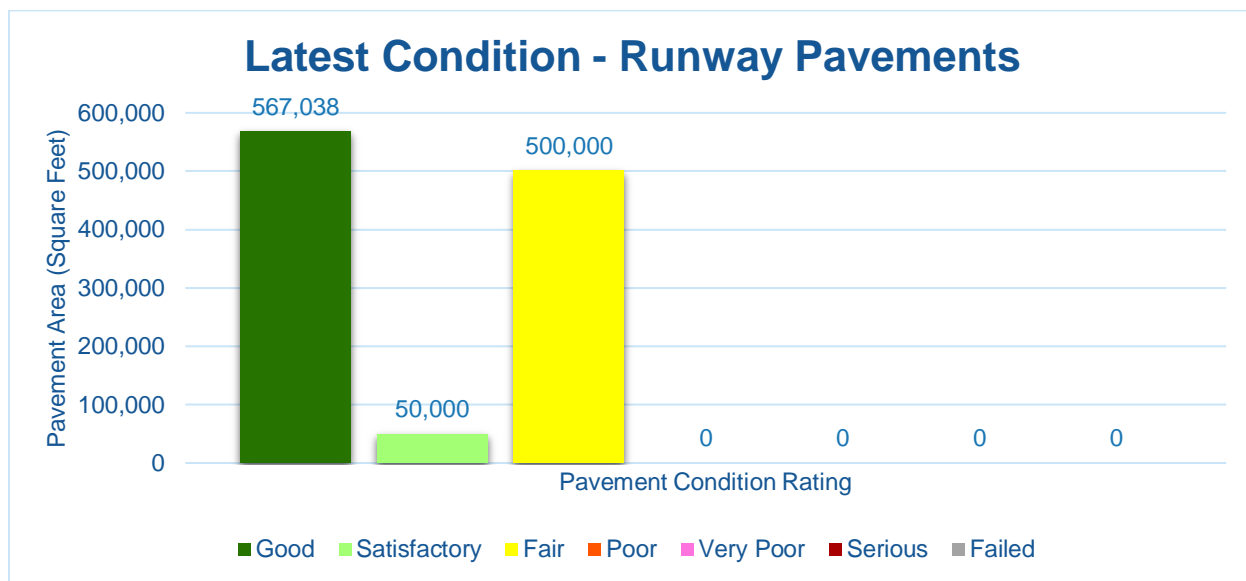


Figure 4.1.2 (b) Latest Condition – Taxiway Pavements

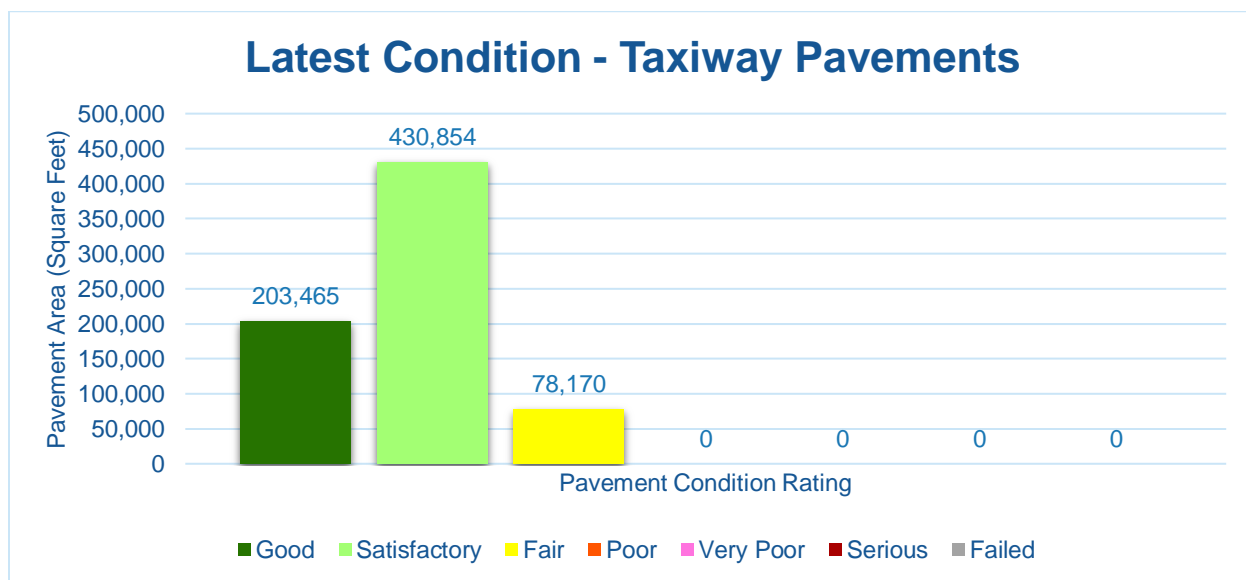




Figure 4.1.2 (c) Latest Condition – Apron Pavements

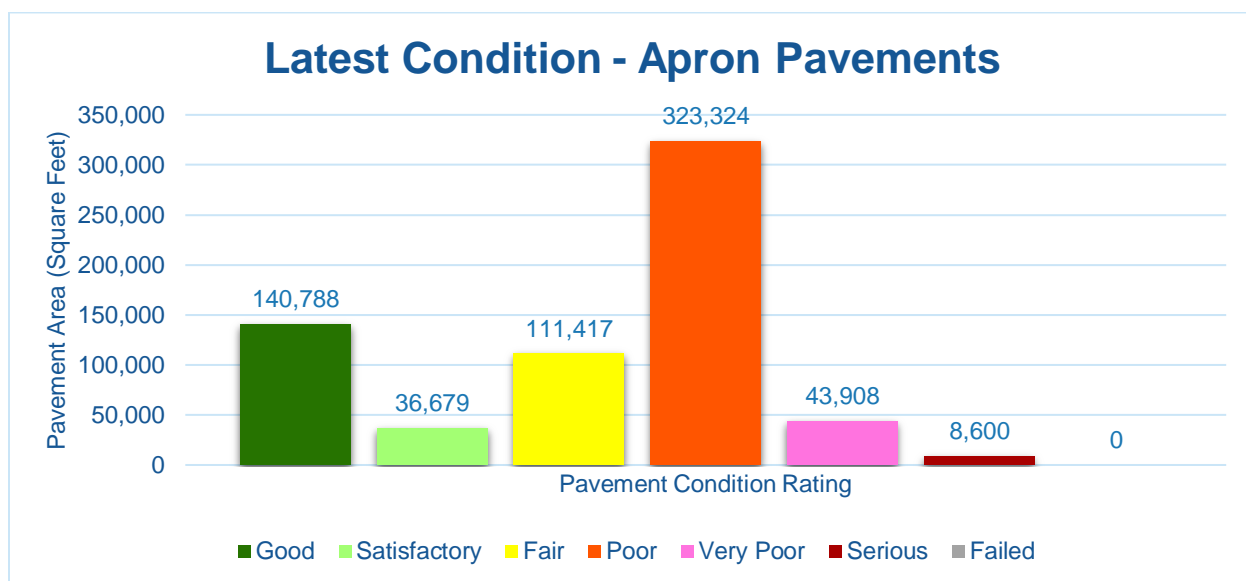
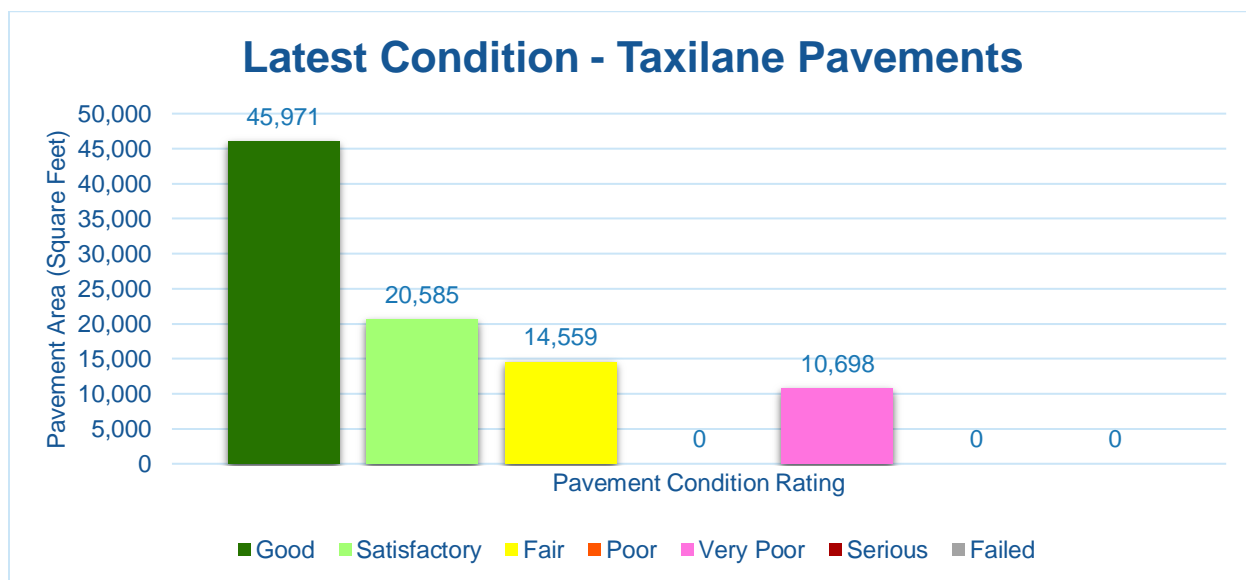


Figure 4.1.2 (d) Latest Condition – Taxiway Pavements





#### 4.1.3 Section-Level Analysis

The following **Table 4.1.3** provides details for each pavement section of its area-weighted average PCI and the percent of distress which is related to load, climate, or other factors. The amount of distress attributed to the various causes provides insight into maintenance, repair, and rehabilitation needs. Load-related distress indicates that pavements are reaching the end of their structural design life, and for those pavements exhibiting a significant amount of these distress types, rehabilitation should be planned to strengthen or reconstruct the pavement.

**Appendix C Technical Exhibits** provides a technical exhibit that graphically depicts the PCI values and ratings determined from this SAPMP System Update.

Any pavement facilities subject to pavement construction within the past 2 years or anticipated for construction within the next year may have been omitted from inspection. Pavement subject to major rehabilitation will be set to a PCI of 100.



Table 4.1.3 Latest Pavement Condition Index Summary

Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI % Climate	PCI % Load	PCI % Other	Sample Units Inspected	Total Sample Units in Section
LEE	AP N	NORTH APRON	APRON	4105	323,324	AC	53	Poor	84%	14%	2%	7	66
LEE	AP N	NORTH APRON	APRON	4120	6,600	PCC	59	Fair	21%	50%	29%	1	3
LEE	AP N	NORTH APRON	APRON	4125	59,690	AC	66	Fair	91%	0%	9%	2	12
LEE	AP N	NORTH APRON	APRON	4130	56,108	PCC	94	Good	0%	36%	64%	2	10
LEE	AP N	NORTH APRON	APRON	4135	18,579	PCC	31	Very Poor	12%	52%	36%	1	4
LEE	AP N	NORTH APRON	APRON	4140	8,600	PCC	12	Serious	13%	87%	0%	1	1
LEE	AP N	NORTH APRON	APRON	4145	11,497	AC	100	Good	0%	0%	0%	0	2
LEE	AP RFUEL	RE-FUELING APRON	APRON	4505	25,329	AC	26	Very Poor	95%	0%	5%	1	5
LEE	AP RU	RUNUP APRON	APRON	5205	36,679	AC	85	Satisfactory	85%	0%	15%	1	8
LEE	AP RU	RUNUP APRON	APRON	5305	54,952	AC	90	Good	100%	0%	0%	2	11
LEE	AP RU	RUNUP APRON	APRON	5405	18,231	AC	100	Good	0%	0%	0%	0	4
LEE	AP T-HANG	APRON T-HANGAR	APRON	4205	45,127	AC	69	Fair	94%	0%	6%	1	9
LEE	RW 13-31	RUNWAY 13-31	RUNWAY	6105	250,000	AAC	61	Fair	68%	0%	32%	9	50
LEE	RW 13-31	RUNWAY 13-31	RUNWAY	6110	250,000	AAC	66	Fair	97%	0%	3%	8	50
LEE	RW 13-31	RUNWAY 13-31	RUNWAY	6115	15,000	AC	86	Good	100%	0%	0%	1	3
LEE	RW 13-31	RUNWAY 13-31	RUNWAY	6120	15,000	AC	90	Good	100%	0%	0%	1	4
LEE	RW 13-31	RUNWAY 13-31	RUNWAY	6125	50,000	AC	82	Satisfactory	100%	0%	0%	3	10
LEE	RW 13-31	RUNWAY 13-31	RUNWAY	6130	50,000	AC	88	Good	100%	0%	0%	2	10
LEE	RW 3-21	RUNWAY 3-21	RUNWAY	6205	242,833	AAC	87	Good	93%	0%	7%	8	48
LEE	RW 3-21	RUNWAY 3-21	RUNWAY	6210	244,205	AAC	88	Good	100%	0%	0%	8	48
LEE	TL A	TAXILANE A	TAXILANE	150	45,971	AC	100	Good	0%	0%	0%	0	8
LEE	TL APRON	TAXILANE TO APRON	TAXILANE	4305	10,698	AC	35	Very Poor	32%	49%	19%	1	2
LEE	TL T-HANG	TAXILANE TO T-HANGARS	TAXILANE	4110	14,559	AC	69	Fair	100%	0%	0%	1	3
LEE	TL T-HANG	TAXILANE TO T-HANGARS	TAXILANE	4115	20,585	AC	80	Satisfactory	100%	0%	0%	1	5
LEE	TW A	TAXIWAY A	TAXIWAY	100	76,252	AC	85	Satisfactory	65%	0%	35%	3	15
LEE	TW A	TAXIWAY A	TAXIWAY	105	82,235	AC	93	Good	100%	0%	0%	2	15
LEE	TW A	TAXIWAY A	TAXIWAY	110	113,871	AAC	78	Satisfactory	77%	0%	23%	3	22
LEE	TW A	TAXIWAY A	TAXIWAY	115	62,194	AC	89	Good	100%	0%	0%	2	11
LEE	TW A1	TAXIWAY A1	TAXIWAY	120	4,409	AC	59	Fair	85%	0%	15%	1	1
LEE	TW A2	TAXIWAY A2	TAXIWAY	130	4,287	AC	65	Fair	100%	0%	0%	1	1
LEE	TW A3	TAXIWAY A3	TAXIWAY	140	4,673	AC	63	Fair	93%	0%	7%	1	1
LEE	TW B	TAXIWAY B	TAXIWAY	200	76,570	AAC	83	Satisfactory	100%	0%	0%	3	16
LEE	TW B	TAXIWAY B	TAXIWAY	205	4,534	AAC	65	Fair	73%	0%	27%	1	1
LEE	TW C	TAXIWAY C	TAXIWAY	300	25,917	AC	83	Satisfactory	100%	0%	0%	1	4
LEE	TW D	TAXIWAY D	TAXIWAY	400	22,621	AC	57	Fair	33%	0%	67%	1	5
LEE	TW E	TAXIWAY E	TAXIWAY	500	8,617	AC	90	Good	100%	0%	0%	1	2
LEE	TW J	TAXIWAY J	TAXIWAY	600	26,600	AAC	90	Good	100%	0%	0%	1	6



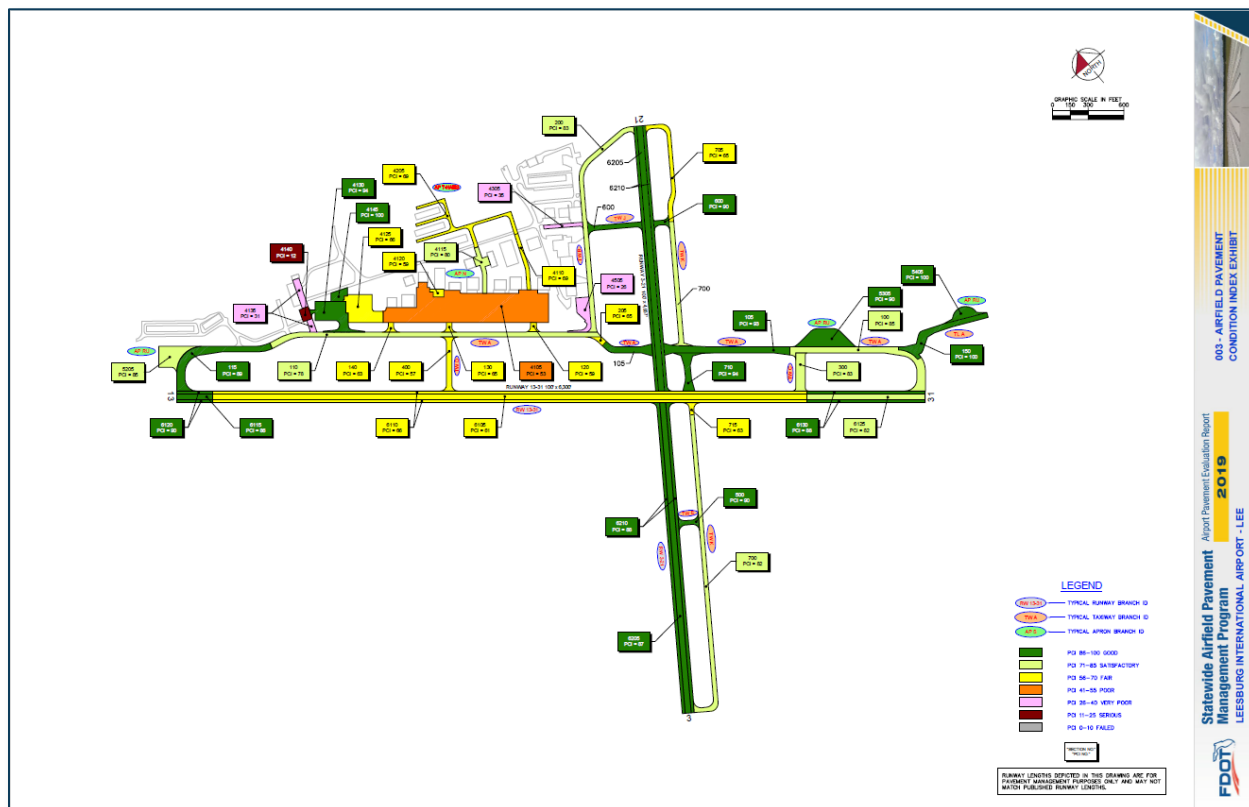


Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI % Climate	PCI % Load	PCI % Other	Sample Units Inspected	Total Sample Units in Section
LEE	TW K	TAXIWAY K	TAXIWAY	700	138,244	AAC	82	Satisfactory	100%	0%	0%	3	28
LEE	TW K	TAXIWAY K	TAXIWAY	705	33,012	AC	65	Fair	100%	0%	0%	1	8
LEE	TW K	TAXIWAY K	TAXIWAY	710	23,819	AC	94	Good	100%	0%	0%	1	5
LEE	TW K	TAXIWAY K	TAXIWAY	715	4,634	AC	63	Fair	100%	0%	0%	1	1



**Figure 4.1.3** is an inset view of the 2019 Airfield Pavement Condition Index Exhibit that visually represents the results of the latest PCI Survey inspection. A large format exhibit is located in **Appendix C Technical Exhibits**.

*Figure 4.1.3 2019 Airfield Pavement Condition Index Exhibit*





## 4.2 Summary of Pavement Condition Evaluation Results

### 4.2.1 Network-Level Observations

The field PCI Survey performed at Leesburg International Airport (LEE) was completed in January of 2019. The resulting overall area-weighted average PCI value was 75 representing a condition rating of Satisfactory. Leesburg International Airport is serviced by three runways; Runway 3-21 is 100-ft wide and 4,957-ft long, Runway 13-31 is 100-ft wide and 6,300-ft long, and a water runway - Runway 3W-21W that is 2000-ft wide and 15,000-ft long. Recently constructed or pavements subject to recent rehabilitation (TL A, portion of AP N) were not inspected and are a PCI of 100, a Good condition rating.

Based on the FAA 5010 Report as of 09/12/2019 the Airport has reported 58,180 operations for 12 months ending 10/01/2018.

### 4.2.2 Branch-Level Observations

The following branch-level observations are intended to be an overall summary of select pavement facilities identified during the PCI Survey; further detail at the section and sample-level may be referenced for all pavements assessed as part of this System Update. The branch-level observations discussed are limited to select branches based on use and condition.

#### *Runway 13-31*

Runway 13-31 consists of 6 sections constructed of AC and AAC. The last construction years range from 2000 to 2009. The area-weighted average PCI for Runway 13-31 is 68 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed on Runway 13-31 consist of Bleeding, Longitudinal & Transverse Cracking, Raveling, and Weathering.

#### *Runway 3-21*

Runway 3-21 consists of 2 sections constructed of AAC. The last construction year for Runway 3-21 was 2011. The area-weighted average PCI for Runway 3-21 is 87 representing a Good condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed on Runway 3-21 consist of Bleeding, Longitudinal & Transverse Cracking, Raveling, Swelling, and Weathering.

#### *Taxiway A*

Taxiway A consists of 4 sections constructed of AC and AAC. The last construction years range from 2000 to 2014. The area-weighted average PCI for Taxiway A is 85 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed on Taxiway A consist of Bleeding, Longitudinal & Transverse Cracking, Raveling, and Weathering.

#### *Taxiway B*

Taxiway B consists of 2 sections constructed of AAC. The last construction years range from 2002 to 2011. The area-weighted average PCI for Taxiway B is 81 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate and Other distress



classifications. Distresses observed on Taxiway B consist of Bleeding, Longitudinal & Transverse Cracking, Raveling, and Weathering.

#### *Taxiway K*

Taxiway K consists of 4 sections constructed of AC and AAC. The last construction years range from 1986 to 2014. The area-weighted average PCI for Taxiway K is 80 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate distress classification. Distresses observed on Taxiway K consist of Longitudinal & Transverse Cracking, Raveling, and Weathering.

#### *North Apron*

North Apron consists of 7 sections constructed of AC and PCC. The last construction years range from 1942 to 2016. The area-weighted average PCI for North Apron is 58 representing a Fair condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed on North Apron consist of Alligator Cracking, Block Cracking, Longitudinal & Transverse Cracking, Oil Spillage, Raveling, Weathering, Corner Break, Linear Cracking, Joint Seal Damage, Shattered Slab, Shrinkage Cracking, Joint Spall, and Corner Spall.

#### *Re-Fueling Apron*

Re-Fueling Apron consists of 1 section constructed of AC. The last construction year for Re-Fueling Apron was 1989. The area-weighted average PCI for Re-Fueling Apron is 26 representing a Very Poor condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed on Re-Fueling Apron consist of Block Cracking, Depression, Patching, and Raveling.

*Figure 4.2.2 Pavement Condition Summary by Facility Use*

Facility Use	Area-Weighted Average PCI	Condition Rating
Runway	76	Satisfactory
Taxiway	82	Satisfactory
Apron	63	Fair
Taxilane	83	Satisfactory





## 4.3 Forecasted Pavement Conditions

### 4.3.1 Performance Models and Prediction Curves

Pavement Performance Models are developed from the distress data and historic construction records collected for the SAPMP. This data is consolidated in a database and organized by inspection/construction date, pavement type, age, and pavement use. The pavement Performance Models are used to develop broad Prediction Curves, alternatively known as deterioration curves or family curves. These Prediction Curves are utilized to develop forecasted PCI values based on historic trends and statistical models.

### 4.3.2 Branch-Level Pavement Condition Forecast

The following **Figures 4.3.2 (a) through (c)** depict the branch-level pavement condition forecast by Branch Use (Runway, Taxiway, and/or Apron). The forecasted conditions are for a 10-year duration starting in January 2020 through January 2029.

*Figure 4.3.2 (a) Forecasted Runway Pavement Performance*

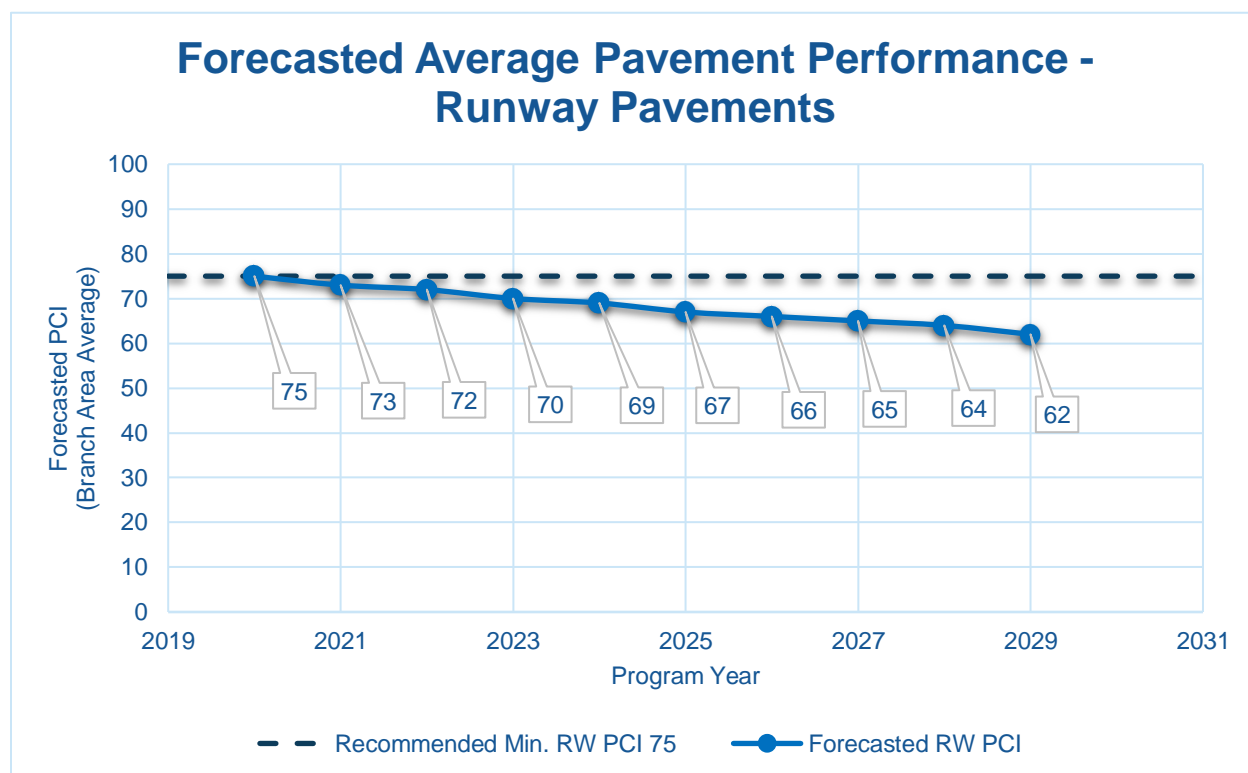




Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance

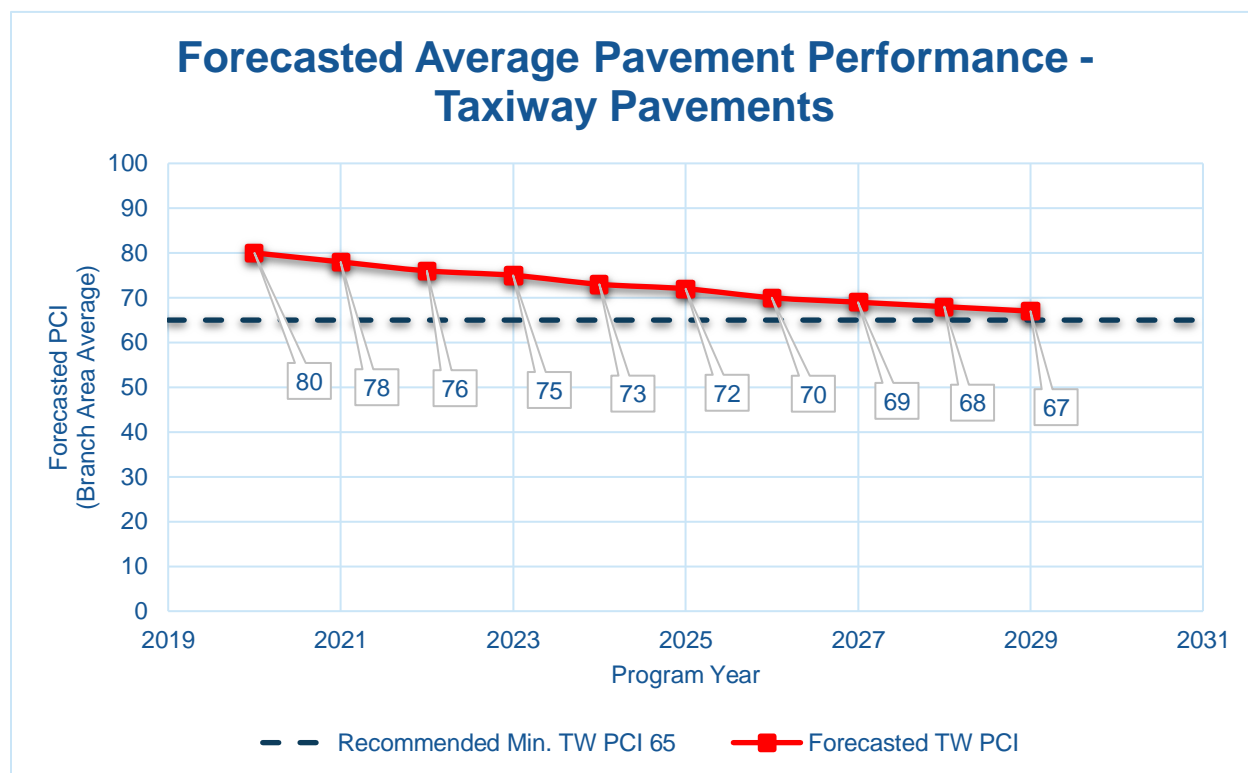
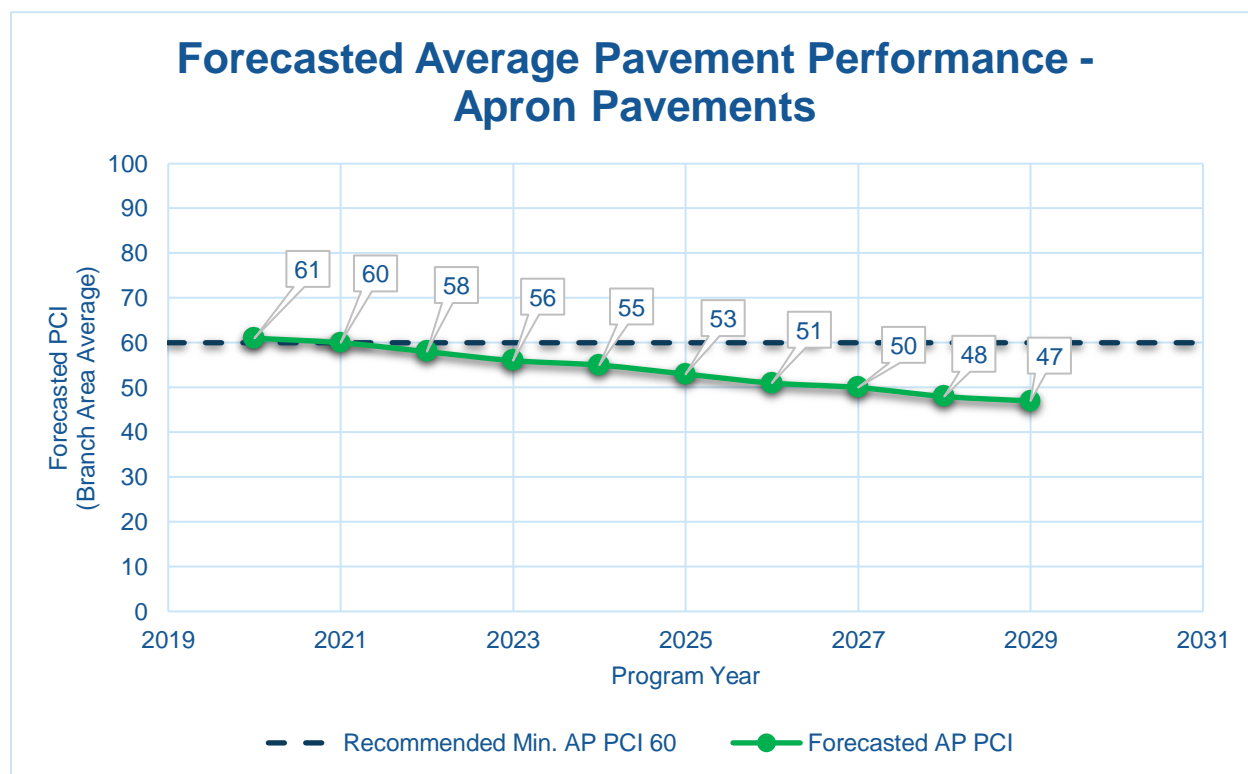


Figure 4.3.2 (c) Forecasted Apron Pavement Performance





#### 4.3.3 Section-Level Pavement Condition Forecast

The following **Table 4.3.3** provides detail to the forecasted PCI values for each section inspected. Please note the forecasted Branch- and Section-Level PCI's are for planning purposes and are subject to the sensitivities in changes in traffic and maintenance frequency. Airport staff should perform annual visual condition assessments to maintain recent understanding of pavement conditions.



Table 4.3.3 Forecasted PCI 2020-2029

Network ID	Branch ID	Section ID	Last PCI	Forecasted PCI									
				2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
LEE	AP N	4105	53	51	49	48	46	45	43	42	40	38	37
LEE	AP N	4120	59	57	56	55	54	52	51	51	50	49	48
LEE	AP N	4125	66	64	62	61	59	58	56	55	53	51	50
LEE	AP N	4130	94	91	88	85	82	80	77	75	73	71	69
LEE	AP N	4135	31	30	29	27	26	25	24	23	22	21	20
LEE	AP N	4140	12	10	9	8	7	6	5	4	3	2	1
LEE	AP N	4145	100	94	92	91	89	88	86	84	83	81	80
LEE	AP RFUEL	4505	26	24	22	21	19	18	16	15	13	11	10
LEE	AP RU	5205	85	83	81	80	78	77	75	74	72	70	69
LEE	AP RU	5305	90	88	86	85	83	82	80	79	77	75	74
LEE	AP RU	5405	100	98	96	95	93	92	90	88	87	85	84
LEE	AP T-HANG	4205	69	67	65	64	62	61	59	58	56	54	53
LEE	RW 13-31	6105	61	60	60	60	60	60	60	59	59	58	56
LEE	RW 13-31	6110	66	64	63	62	61	61	60	60	60	60	60
LEE	RW 13-31	6115	86	84	82	81	79	77	76	74	73	71	69
LEE	RW 13-31	6120	90	88	86	85	83	81	80	78	77	75	73
LEE	RW 13-31	6125	82	80	78	77	75	73	72	70	69	67	65
LEE	RW 13-31	6130	88	86	84	83	81	79	78	76	75	73	71
LEE	RW 3-21	6205	87	84	82	79	77	74	72	70	68	66	65
LEE	RW 3-21	6210	88	85	83	80	78	75	73	71	69	67	65
LEE	TL A	150	100	97	95	93	90	88	85	83	80	78	76
LEE	TL APRON	4305	35	33	32	31	31	30	29	28	28	27	26
LEE	TL T-HANG	4110	69	68	67	66	65	64	63	62	61	60	59
LEE	TL T-HANG	4115	80	78	76	74	73	71	70	69	68	67	66
LEE	TW A	100	85	82	80	78	76	74	73	71	70	69	68





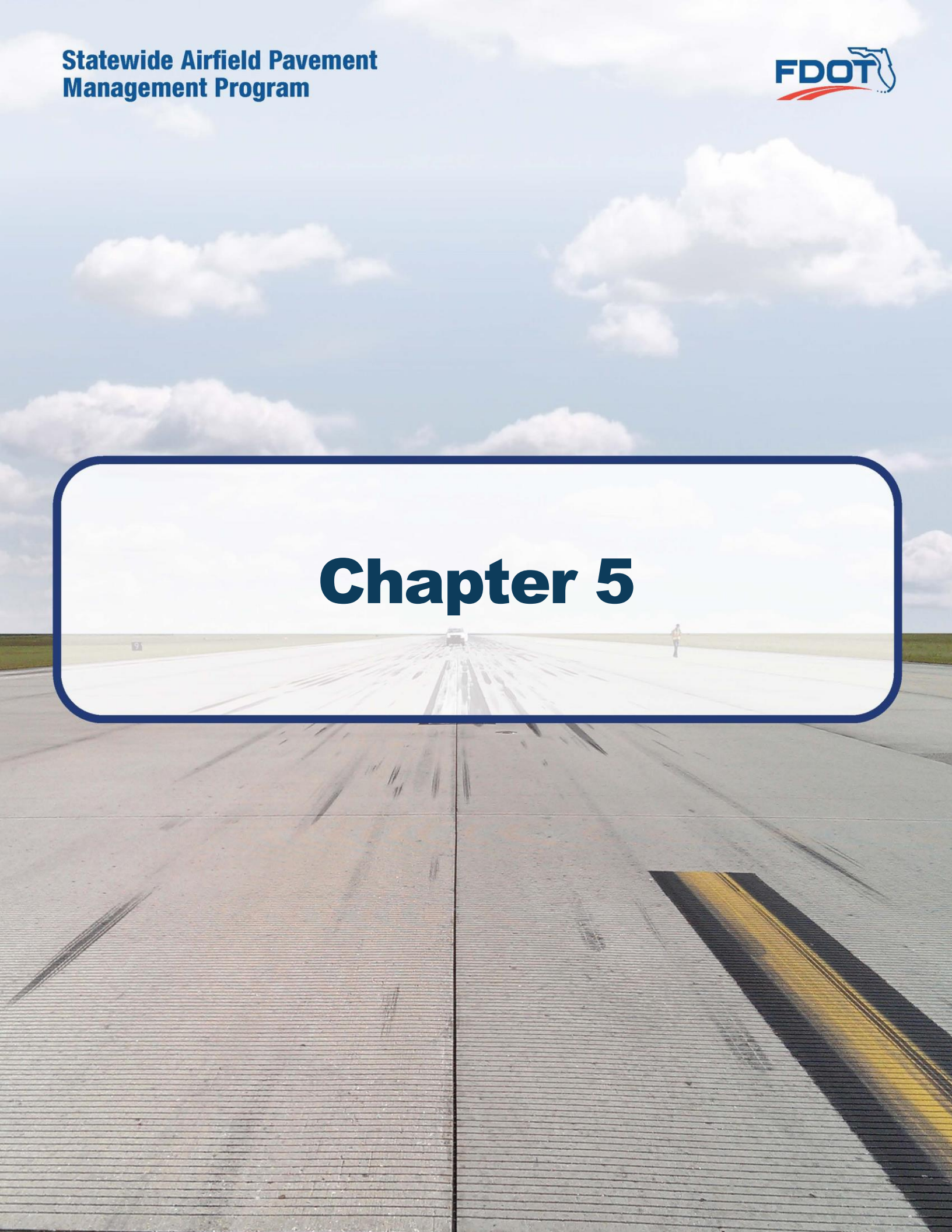
Network ID	Branch ID	Section ID	Last PCI	Forecasted PCI									
				2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
LEE	TW A	105	93	90	88	85	83	81	78	76	75	73	72
LEE	TW A	110	78	76	75	74	73	72	71	70	69	68	67
LEE	TW A	115	89	86	84	81	79	77	75	74	72	71	70
LEE	TW A1	120	59	57	56	55	54	52	51	49	47	46	44
LEE	TW A2	130	65	64	63	62	61	60	59	58	57	55	54
LEE	TW A3	140	63	62	61	60	59	58	56	55	54	52	51
LEE	TW B	200	83	81	79	77	75	74	73	72	71	70	70
LEE	TW B	205	65	63	62	60	59	57	55	54	52	50	49
LEE	TW C	300	83	80	78	76	75	73	72	70	69	68	67
LEE	TW D	400	57	55	54	53	51	49	48	46	45	43	41
LEE	TW E	500	90	87	85	82	80	78	76	74	73	71	70
LEE	TW J	600	90	87	84	82	80	78	76	75	74	73	72
LEE	TW K	700	82	80	78	76	75	74	73	72	71	70	69
LEE	TW K	705	65	64	63	62	61	60	59	58	57	55	54
LEE	TW K	710	94	91	89	86	84	81	79	77	75	74	72
LEE	TW K	715	63	62	61	60	59	58	56	55	54	52	51



#### 4.3.4 Forecasted PCI Considerations

As FDOT continues to update the SAPMP with future PCI Survey inspections and assembly of airfield pavement construction work history, the performance models will be further refined. With the refinement of additional PCI and work history data points, the forecasting of pavement conditions will continue to better reflect the performance trends of airfield pavements in the Florida Airports System. Forecasted or predicted pavement conditions for the airport are intended for planning purposes only. Design-level recommendations for pavement rehabilitation and/or reconstruction will require the appropriate application of the procedures defined in FAA **AC 150/5320-6F Airport Pavement Design and Evaluation** and **AC 150/5370-11B Use of Nondestructive Testing in the Evaluation of Airport Pavements** to determine structural and/or functional conditions at the time of project.

# **Chapter 5**





# Chapter 5 – Localized Maintenance and Repair Planning

General Maintenance and Rehabilitation (M&R) methods are characterized under three broad categories: localized maintenance and repair, global treatments, and major rehabilitation.

- **Localized Maintenance and Repair** includes patching and crack sealing.
- **Global Treatments** include surface seals and rejuvenators for flexible pavements.
- **Major Rehabilitation** includes overlays, significant slab replacement, and reconstruction.

This chapter discusses the FDOT SAPMP Localized Maintenance and Repair Planning approach. Proactive localized maintenance and repair, specifically preservation, is highly recommended to the airports. However, it is certainly recognized that once pavements have deteriorated below a certain condition, the facility would benefit from a more substantial rehabilitation in lieu of localized efforts. Chapter 6 Major Rehabilitation Planning discusses the addressing of pavements through timely rehabilitation once it has deteriorated below a critical PCI where localized repairs may not be as cost effective.

## 5.1 Localized Maintenance and Repair

Localized maintenance and repair is best applied as a conservation measure and is oftentimes applied to slow the rate of deterioration of distressed pavements; however, may be applied as a temporary corrective measure in isolated areas. Localized maintenance and repair can be applied either as a safety (“stopgap”) measure or preventive measure. Example distress types subject to localized preventive maintenance and repair may consist of low-severity longitudinal and transverse cracking and low-severity weathering. In many cases however, localized stopgap repair is applied as a safety measure to address high-severity distress manifestations when major rehabilitation is not funded for a given section with a PCI value below critical PCI. Some agencies may elect to define both types; preventative and stopgap, as localized maintenance.

### Localized Stopgap/Safety Maintenance and Repair

Localized Stopgap or Safety Maintenance and Repair is defined as the localized distress repair needed to keep pavements operational in a safe condition. These activities are typically applied to high-severity distresses or distresses affecting operational activities. Typical pavement section PCIs will range from 0 to 65.

### Localized Preventive Maintenance and Repair

Localized Preventive Maintenance and Repair is defined as distress maintenance activities performed with the primary objective of slowing the rate of deterioration. These activities typically include crack sealing and patching. Typical pavement section PCIs will be above 65.





## 5.2 Localized Maintenance and Repair Policy

The resulting Localized Maintenance and Repair recommendations are identified based on the policy defined in **Table 5.2 (a)** and **Table 5.2 (b)**, for flexible asphalt concrete and rigid Portland cement concrete pavements, respectively. The activities identified were based on the research of practical pavement treatments in consideration of the FAA **AC 150/5380-6C “Guidelines and Procedures for Maintenance of Airport Pavements”** and the **FDOT Airfield Pavement Distress Repair Manual**. Additionally, the **Engineering Technical Letter (ETL) 14-3: Preventive Maintenance Plan (PMP) for Airfield Pavements** was referenced for conservative application of pavement treatments. The Localized Maintenance and Repair Policy and associated planning-level unit costs were developed in consideration of a network-level analysis – it is strictly intended to provide a glimpse of the condition of the airport pavements with a limited PCI survey effort.

The developed Localized Maintenance and Repair Policy and associated planning-level unit costs were based on a statewide consideration of pavement treatments and review of state construction costs for both Airfield Pavements and from the FDOT Historical Cost Information archives. Furthermore, a consideration of limited repair quantities was factored in the determination of conservative planning-level unit costs. The identified Localized maintenance activities for both preventive and stopgap activities are based on a statewide network approach; project-specific evaluation and maintenance quantities should be developed prior to any construction.

*Table 5.2 (a) Localized Maintenance and Repair – Flexible Asphalt Concrete*

Distress	Severity	Description	Code	Work Type	Work Unit
41	Low	ALLIGATOR CR	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
41	Medium	ALLIGATOR CR	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
41	High	ALLIGATOR CR	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
42	N/A	BLEEDING	FDOT-MO-PV	FDOT - MONITOR	N/A
43	Low	BLOCK CR	FDOT-MO-PV	FDOT - MONITOR	N/A
43	Medium	BLOCK CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
43	High	BLOCK CR	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
44	Low	CORRUGATION	FDOT-ML-AC	FDOT - MILLING - AC	SqFt
44	Medium	CORRUGATION	FDOT-ML-AC	FDOT - MILLING - AC	SqFt
44	High	CORRUGATION	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
45	Low	DEPRESSION	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
45	Medium	DEPRESSION	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
45	High	DEPRESSION	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
46	N/A	JET BLAST	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
47	Low	JT REF. CR	FDOT-MO-PV	FDOT - MONITOR	N/A
47	Medium	JT REF. CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
47	High	JT REF. CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft



Distress	Severity	Description	Code	Work Type	Work Unit
48	Low	L & T CR	FDOT-MO-PV	FDOT - MONITOR	N/A
48	Medium	L & T CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
48	High	L & T CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
49	N/A	OIL SPILLAGE	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
50	Low	PATCHING	FDOT-MO-PV	FDOT - MONITOR	N/A
50	Medium	PATCHING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
50	High	PATCHING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
51	N/A	POLISHED AG	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
52	Low	RAVELING	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
52	Medium	RAVELING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
52	High	RAVELING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
53	Low	RUTTING	FDOT-MO-PV	FDOT - MONITOR	N/A
53	Medium	RUTTING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
53	High	RUTTING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
54	Low	SHOVING	FDOT-MO-PV	FDOT - MONITOR	N/A
54	Medium	SHOVING	FDOT-ML-AC	FDOT - MILLING - AC	SqFt
54	High	SHOVING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
55	N/A	SLIPPAGE CR	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
56	Low	SWELLING	FDOT-MO-PV	FDOT - MONITOR	N/A
56	Medium	SWELLING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
56	High	SWELLING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
57	Low	WEATHERING	FDOT-MO-PV	FDOT - MONITOR	N/A
57	Medium	WEATHERING	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
57	High	WEATHERING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt

*Table 5.2 (b) Localized Maintenance and Repair – Rigid Portland Cement Concrete*

Distress	Severity	Description	Code	Work Type	Work Unit
61	Low	BLOW-UP	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
61	Medium	BLOW-UP	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
61	High	BLOW-UP	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
62	Low	CORNER BREAK	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
62	Medium	CORNER BREAK	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
62	High	CORNER BREAK	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
63	Low	LINEAR CR	FDOT-MO-PV	FDOT - MONITOR	N/A
63	Medium	LINEAR CR	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
63	High	LINEAR CR	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt



Distress	Severity	Description	Code	Work Type	Work Unit
64	Low	DURABIL. CR	FDOT-MO-PV	FDOT - MONITOR	N/A
64	Medium	DURABIL. CR	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
64	High	DURABIL. CR	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
65	Low	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
65	Medium	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
65	High	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
66	Low	SMALL PATCH	FDOT-MO-PV	FDOT - MONITOR	N/A
66	Medium	SMALL PATCH	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
66	High	SMALL PATCH	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
67	Low	LARGE PATCH	FDOT-MO-PV	FDOT - MONITOR	N/A
67	Medium	LARGE PATCH	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
67	High	LARGE PATCH	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
68	N/A	POPOUTS	FDOT-PO-FL	FDOT - POPOUT FILLER	SqFt
69	N/A	PUMPING	FDOT-SB-PC	FDOT - SLAB STABILIZATION - PCC	SqFt
70	Low	SCALING	FDOT-MO-PV	FDOT - MONITOR	N/A
70	Medium	SCALING	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
70	High	SCALING	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
71	Low	FAULTING	FDOT-MO-PV	FDOT - MONITOR	N/A
71	Medium	FAULTING	FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	Ft
71	High	FAULTING	FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	Ft
72	Low	SHAT. SLAB	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
72	Medium	SHAT. SLAB	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
72	High	SHAT. SLAB	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
73	N/A	SHRINKAGE CR	FDOT-MO-PV	FDOT - MONITOR	N/A
74	Low	JOINT SPALL	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
74	Medium	JOINT SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
74	High	JOINT SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
75	Low	CORNER SPALL	FDOT-CS-PC	FDOT - CRACK SEALING - PCC	Ft
75	Medium	CORNER SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
75	High	CORNER SPALL	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
76	Low	ASR	FDOT-MO-PV	FDOT - MONITOR	N/A
76	Medium	ASR	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
76	High	ASR	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt



Table 5.2 (c) Localized Repair Planning-Level Unit Costs – Flexible Asphalt Concrete

Code	Name	Cost	Units
FDOT-SS-LO	FDOT - SURFACE SEAL	\$0.55	SqFt
FDOT-ML-AC	FDOT - MILLING - AC	\$2.00	SqFt
FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	\$2.00	Ft
FDOT-CS-AC	FDOT - CRACK SEALING - AC	\$3.00	Ft
FDOT-MO-PV	FDOT - MONITOR	\$0.00	SqFt
FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	\$6.00	SqFt
FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	\$3.00	SqFt

Table 5.2 (d) Localized M&amp;R Planning-Level Unit Costs – Rigid Portland Cement Concrete

Code	Name	Cost	Units
FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	\$100.00	SqFt
FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	\$30.00	SqFt
FDOT-SB-PC	FDOT - SLAB STABILIZATION - PCC	\$30.00	SqFt
FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	\$72.00	SqFt
FDOT-PO-FL	FDOT - POPOUT FILLER	\$0.05	SqFt
FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	\$2.00	Ft
FDOT-CS-PC	FDOT - CRACK SEALING - PCC	\$4.25	Ft
FDOT-MO-PV	FDOT - MONITOR	\$0.00	N/A
FDOT-JS-PC	FDOT - JOINT SEAL - PCC	\$2.75	Ft

\*PCC Patching (Full Depth and Partial Depth) consider high-early-strength and high-performing repair material.





## 5.3 Localized Maintenance and Repair Analysis and Recommendations

The SAPMP provides a planning-level estimation of Localized Maintenance and Repair based on the results of the latest PCI Survey Inspection performed at the airport. Based on the limited sample units inspected, a statistical extrapolation of distresses at the section level is used to estimate the quantities of recommended repair activities based on the policies defined in **5.2 Localized M&R Policy**. The PCI Survey Inspections did not consist of 100% inspection of all sample units; therefore, the section-level distress quantities used to estimate the Localized Maintenance and Repair needs are for conceptual planning purposes. The accuracy of the extrapolated distresses, and therefore work quantities, is subject to the amount of sample units inspected and the concentration of distress types observed in sample units. **Appendix B** provides the estimated Localized Maintenance and Repair based on this SAPMP's PCI Survey Inspection efforts. Localized Preventive Maintenance and Repair is typically applied to pavements that are in a condition at or above the Critical PCI of 65. Localized Stopgap Maintenance and Repair is typically applied to pavements that are below the Critical PCI of 65. It is recommended that airport staff evaluate the application of Localized Maintenance and Repair in concert with the planning of Major Rehabilitation efforts identified in Chapter 6 Major Rehabilitation Planning. Pavements with Stopgap recommendations that are subject to near-term Major Rehabilitation efforts may remove the need to perform localized maintenance efforts.

The following **Table 5.3 (a)** summarizes the anticipated Localized Maintenance and Repair efforts based on the PCI Survey Inspection efforts performed at this airport as part of this SAPMP System Update. The following table depicts planning-level costs rounded to the nearest ten dollars.

*Table 5.3 (a) Summary of Airport Localized M&R Planning Cost and Quantity at Network Level*

Work Description	Work Category	Rough Estimate of Work Quantity	Work Units	Planning Material Cost
FDOT - SURFACE SEAL	PREVENTIVE	159,745	SqFt	\$ 87,860.00
FDOT - CRACK SEALING - AC	PREVENTIVE	1,870	Ft	\$ 5,610.00
FDOT - CRACK SEALING - PCC	PREVENTIVE	40	Ft	\$ 160.00
FDOT - PATCHING - AC PARTIAL DEPTH	PREVENTIVE	36,710	SqFt	\$ 110,120.00
FDOT - SLAB REPLACEMENT - PCC	STOPGAP	8,750	SqFt	\$ 262,500.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	4,950	SqFt	\$ 29,690.00
FDOT - CRACK SEALING - AC	STOPGAP	7,310	Ft	\$ 21,930.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	9,320	SqFt	\$ 27,960.00
FDOT - JOINT SEAL - PCC	STOPGAP	3,210	Ft	\$ 8,830.00
FDOT - CRACK SEALING - PCC	STOPGAP	535	Ft	\$ 2,270.00
FDOT - PATCHING - PCC PARTIAL DEPTH	STOPGAP	75	SqFt	\$ 5,080.00
FDOT - SURFACE SEAL	STOPGAP	263,655	SqFt	\$ 145,020.00



The following **Table 5.3 (b)** provides further breakdown of the anticipated planning-level cost at the section level for the pavements exhibiting distresses that would benefit from Localized M&R. The table shows the approximate improved “End Condition” of the section after the application of Localized M&R. The following table depicts planning-level costs rounded to the nearest ten dollars.

*Table 5.3 (b) Summary of Airport Localized M&R Planning Cost and Quantity at Section Level*

Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
LEE	AP N	4105	323,324	53	64	\$ 121,730.00
LEE	AP N	4120	6,600	59	68	\$ 4,810.00
LEE	AP N	4125	59,690	66	89	\$ 24,970.00
LEE	AP N	4130	56,108	94	94	\$ 160.00
LEE	AP N	4135	18,579	31	61	\$ 9,230.00
LEE	AP N	4140	8,600	12	100	\$ 264,680.00
LEE	AP N	4145	11,497	100	100	\$ -
LEE	AP RFUEL	4505	25,329	26	59	\$ 40,730.00
LEE	AP RU	5205	36,679	85	85	\$ 420.00
LEE	AP RU	5305	54,952	90	90	\$ -
LEE	AP RU	5405	18,231	100	100	\$ -
LEE	AP T-HANG	4205	45,127	69	95	\$ 25,060.00
LEE	RW 13-31	6105	250,000	61	67	\$ 29,430.00
LEE	RW 13-31	6110	250,000	66	75	\$ 119,480.00
LEE	RW 13-31	6115	15,000	86	89	\$ 120.00
LEE	RW 13-31	6120	15,000	90	90	\$ -
LEE	RW 13-31	6125	50,000	82	89	\$ 2,490.00
LEE	RW 13-31	6130	50,000	88	90	\$ 640.00
LEE	RW 3-21	6205	242,833	87	89	\$ 840.00
LEE	RW 3-21	6210	244,205	88	92	\$ 11,790.00
LEE	TL A	150	45,971	100	100	\$ -
LEE	TL APRON	4305	10,698	35	69	\$ 3,490.00
LEE	TL T-HANG	4110	14,559	69	94	\$ 8,010.00
LEE	TL T-HANG	4115	20,585	80	88	\$ 410.00
LEE	TW A	100	76,252	85	85	\$ -
LEE	TW A	105	82,235	93	93	\$ -
LEE	TW A	110	113,871	78	84	\$ 7,340.00
LEE	TW A	115	62,194	89	89	\$ -
LEE	TW A1	120	4,409	59	76	\$ 2,460.00
LEE	TW A2	130	4,287	65	79	\$ 2,380.00
LEE	TW A3	140	4,673	63	82	\$ 1,350.00
LEE	TW B	200	76,570	83	83	\$ -
LEE	TW B	205	4,534	65	85	\$ 2,500.00



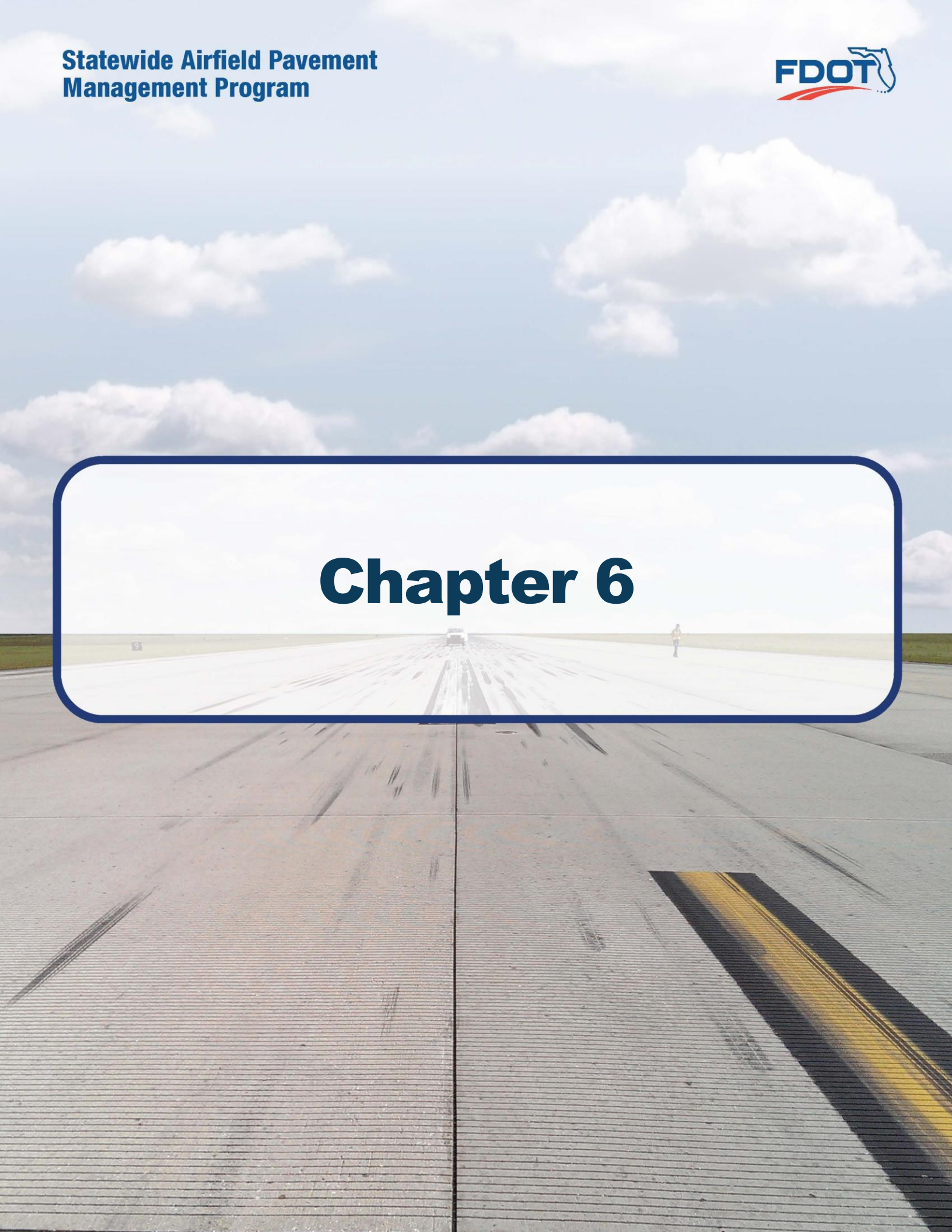
Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
LEE	TW C	300	25,917	83	89	\$ 740.00
LEE	TW D	400	22,621	57	59	\$ 250.00
LEE	TW E	500	8,617	90	90	\$ -
LEE	TW J	600	26,600	90	90	\$ -
LEE	TW K	700	138,244	82	85	\$ 1,370.00
LEE	TW K	705	33,012	65	85	\$ 18,200.00
LEE	TW K	710	23,819	94	94	\$ -
LEE	TW K	715	4,634	63	82	\$ 2,220.00

The following **Table 5.3 (c)** provides a summary of the anticipated planning-level costs for Localized Preventive Maintenance and Repair and Localized Stopgap Maintenance and Repair. The following table depicts planning-level costs rounded to the nearest ten dollars.

*Table 5.3 (c) Summary of Localized Maintenance*

Work Category	Cost
Preventive	\$ 203,750.00
Stopgap	\$ 503,280.00
<b>Planning-Level Localized M&amp;R Needs =</b>	<b>\$ 707,030.00</b>

# Chapter 6







# Chapter 6 – Major Rehabilitation Planning

## 6.1 Major Rehabilitation

Major rehabilitation is recommended to correct or improve structural deficiencies and/or functional deterioration for pavement sections within a network. Often, when pavements are subject to significant changes in the aircraft fleet mix (frequency and type), major rehabilitation is required to provide a pavement section to meet the traffic demand. Major rehabilitation is recommended when a pavement section falls below the Critical PCI value that is defined during the system customization or if a pavement section has a significant observation of load-related distress. Observation of any load-related distress potentially indicates that the section may be structurally deficient or that the aircraft loads being applied to the pavement section are different than what the section was designed for. **Figures 6.1 (a) and 6.1 (b)** depict the decision process for major rehabilitation project identification with the assumption of available funds. Should funding be unavailable for pavement sections in need of major rehabilitation, the airport may elect to apply the appropriate localized stopgap repair.

*Figure 6.1 (a) Major Rehabilitation Planning Decision Diagram,  $PCI \leq \text{Critical PCI}$*

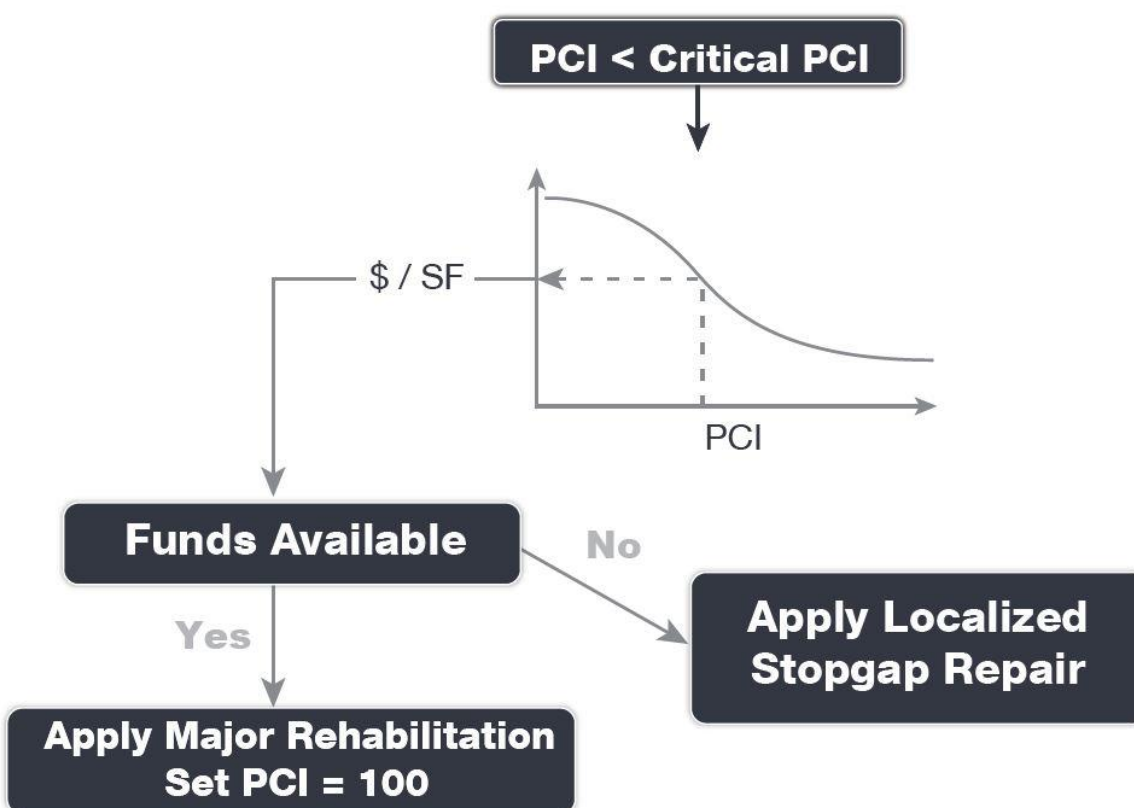
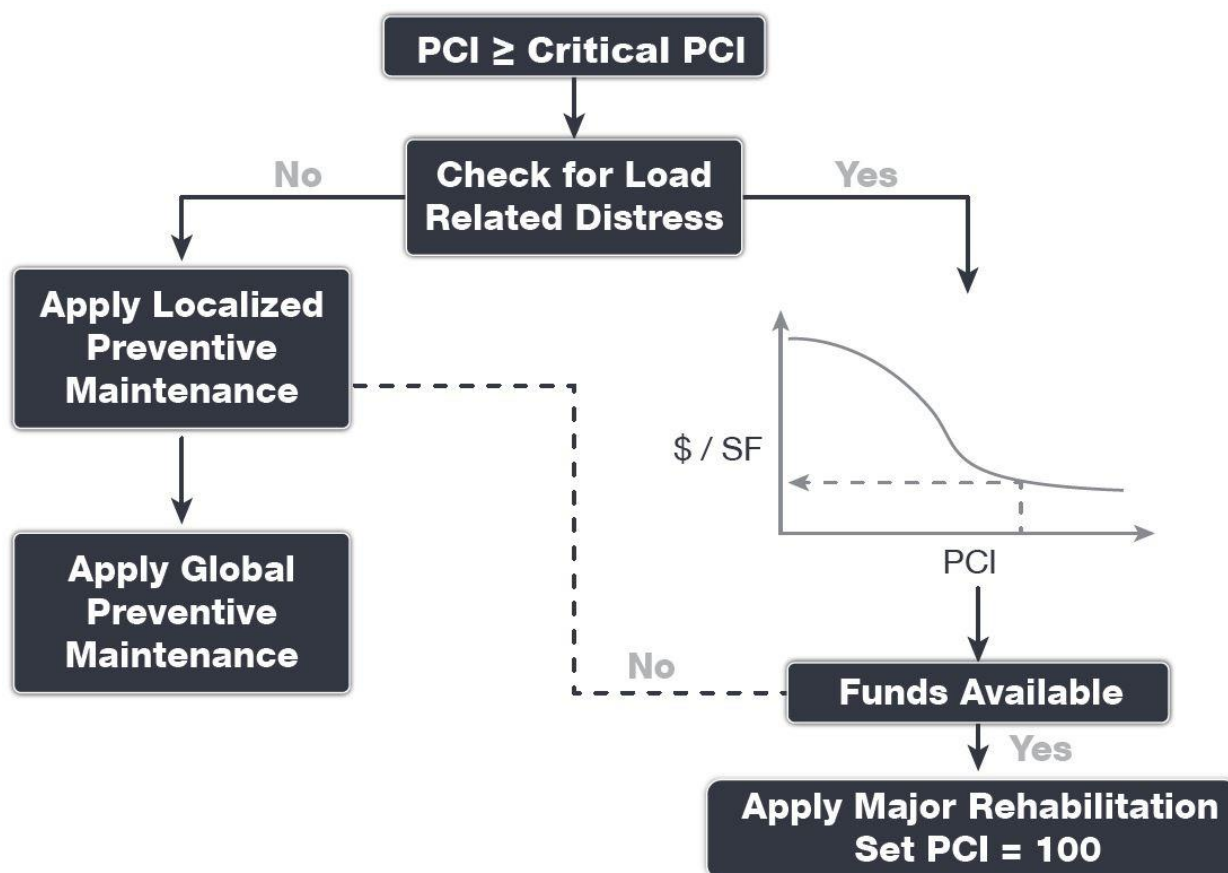




Figure 6.1 (b) Major Rehabilitation Planning Decision Diagram,  $PCI > \text{Critical } PCI$





### 6.1.1 Critical PCI

For the FDOT SAPMP the development of a major rehabilitation program is based on the Critical PCI concept. The **Critical PCI** concept assumes that it is more cost-effective to maintain pavements above, rather than below their critical PCI. It is assumed that once a pavement section deteriorates to the Critical PCI value that it is more cost-effective to complete a major rehabilitation project rather than continuing to apply preventive maintenance. This method includes defining the Critical PCI and introducing major rehabilitation work types.

Identification of annual and long-range Major Rehabilitation work plans are typically based on the Critical PCI concept. The Critical PCI is defined as the PCI value at which the rate of loss (deterioration) increases with time, or the cost of applying localized maintenance and repair increases or is not effective. A Critical PCI is usually within a range of 55 and 70; the following procedure is standard approach in developing a specific Critical PCI:

1. Develop a pavement performance model and refine a prediction model for the pavements considered.
2. Select a localized maintenance and repair policy to be used in developing a work plan.
3. Apply the selected localized policy to the pavement sections for a range of PCI.
4. Compute the unit cost per area for each PCI range.
5. Plot the cost versus the PCI.
6. Determine the Critical PCI based on the point where the cost is insignificant.

The FDOT SAPMP defines the Critical PCI at 65 – this is based on the historic trends in pavement performance and Statewide planning efforts.

### 6.1.2 FDOT Recommended Minimum Service-Level PCI

The FDOT has recommended **Minimum Service-Level PCI** for airports' airfield pavements based on the following characteristics; airport type within FDOT SAPMP, branch use, and expected aircraft operations. For the purposes of Major Rehabilitation, the Critical PCI is typically the threshold condition that triggers major construction, however it is recommended that the airports maintain the Minimum Service-Level PCI with a combination of Localized Maintenance and Repair and timely Major Rehabilitation. **Table 6.1.2** summarizes the FDOT Recommended Minimum Service-Level PCI.

*Table 6.1.2 FDOT Recommended Minimum Service-Level PCI*

Branch Use	FDOT Recommended PCI	Additional Consideration
Runway	75	Aircraft Fleet Mix Changes Primary Runway
Taxiway / Taxilane	65	Aircraft Fleet Mix Changes Expected Operations
Aprons / Run-Ups / Ramps	60	Ground Service Equipment Non-Aircraft Operations (e.g. fueling)



## 6.2 Major Rehabilitation Policy

### 6.2.1 Major Rehabilitation Pavement Section Development

The review of the existing as-built record documentation within the participating airports' archives was used as the basis of the conceptual pavement design sections. Refinement of the pavement section layers was performed in consideration of the FAA **AC 150/ 5320-6F "Airport Pavement Design and Evaluation."** It should be noted that no subsurface geotechnical investigation, ALTA/ACSM Survey, topographic survey, utilities survey, environmental, or site specific air traffic study(s) have been utilized in the development of the design criteria. No warranty or assurance is implied in this document for final design nor construction for any airfield pavements discussed within this report. The following **Tables 6.2.1 (a) and (b)** provide details on the conceptual pavement sections developed for this study.

Major rehabilitation is divided into two policy categories as part of this program: Full-Depth Reconstruction (Reconstruction) and Intermediate-Level Major Rehabilitation (Restoration). Based on the pavement type, the general categories are defined as AC Reconstruction and AC Restoration for AC, AAC, and APC flexible pavement types and PCC Reconstruction and PCC Restoration for PCC rigid pavement types. The pavement sections have been based on the average GA Airport Type requirements; no pavement design has been performed in accordance with AC 150/5320-6F for the determined conceptual sections.

*Table 6.2.1 (a) Conceptual Pavement Section for Major Rehabilitation – Flexible Asphalt Concrete*

Rehabilitation Type	General Aviation (GA) Airport
<b>AC Restoration</b>  <i>Combination of asphalt pavement milling and overlay with 25% of the areas subject to full-depth reconstruction.</i>  <b>PCI = 41 to 65</b>	<b>75% Mill and Overlay</b> P-101 AC Milling (2") P-603 Bituminous Tack P-401 (HMA) (2")  <b>25% AC Reconstruction</b> P-101 Pavement Removal P-152 Subgrade (12") P-211 Base (6") P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (2")  <i>Excludes any paved shoulder features.</i>
<b>AC Reconstruction</b>  <i>Full-depth asphalt pavement section reconstruction.</i>  <b>PCI = 40 or less</b>	P-101 Pavement Removal P-152 Subgrade (12") P-211 Base (6") P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (2")  <i>Excludes any paved shoulder features.</i>





*Table 6.2.1 (b) Conceptual Pavement Section for Major Rehabilitation – Rigid Portland Cement Concrete*

Rehabilitation Type	General Aviation (GA) Airport
<b>PCC Restoration</b>  <i>Restoration of PCC pavement with a combination of crack sealing, joint seal replacement, and replacement of 25% of slab panels.</i>  <b>PCI = 41 to 65</b>	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (6") P-211 Base (if needed, typical) (6") P-501 Rigid PCC (10")  *Select Slabs (25%) **Crack Seal and Limited Patching
<b>PCC Reconstruction</b>  <i>Full-depth rigid pavement section reconstruction.</i>  <b>PCI = 40 or less</b>	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (6") P-211 Base (6") P-501 Rigid PCC (10")

***The identification of rehabilitation needs and conceptual pavement sections have been determined at the planning level. Design-level investigation is recommended prior to developing construction-level design documents and budgets.***

In compliance with FAA Grant Assurances 11 and 19, the FDOT SAPMP provides airports with airfield pavement evaluation reports in accordance with **FAA AC 150/5380-7B Airport Pavement Management Program (PMP)** and **AC 150/5380-6C Guidelines and Procedures for Maintenance of Airport Pavements**. The application of the results of a PCI survey are for planning purposes and are limited to the visual observation of deteriorated pavements in limited sampling; design-level investigation is recommended in accordance with the FAA procedures defined in **AC 5320-6F Airport Pavement Design and Evaluation** and **AC 150/5370-11B Use of Nondestructive Testing in the Evaluation of Airport Pavements**. The aforementioned ACs provide the design-level material properties of in-situ pavement and subgrade layers for the determination of appropriate rehabilitation actions. The FDOT SAPMP is organized to provide airports with planning-level data and does not intend to preclude the responsible engineer in performing the appropriate level of investigation and analysis in determining the appropriate design details of a pavement rehabilitation. It would not be advisable to solely base design-level rehabilitation without the appropriate level of investigation and determination of pavement deterioration beyond that of a visual functional condition assessment.

The recommendations identified in the Major Rehabilitation Needs consider the **FAA AC 150/5370-10H Standard Specifications for Construction of Airports** when determining the appropriate materials and methods implemented for construction projects, such as pavement rehabilitation, on airports. It should be noted that the **AC 150/5370-10H Standard Specifications for Construction of Airports** was updated in December of 2018. Design-level determination of project specific specifications based on the AC should be developed by the Airport when performing applicable construction projects.



### 6.2.2 Major Rehabilitation Planning-Level Unit Costs

Planning-level opinion of probable construction unit costs developed for this System Update was based on archived bid tabulations and records from airfield pavement projects provided by participating airports. A review of cost trends and cost factors have been incorporated to assist airports in planning for project budgets. Neither FDOT nor the Consultant Team has control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable construction costs provided herein are based on the information known to FDOT at this time and represent only the Consultant Team's judgment as a design professional familiar with the construction industry. This report cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable construction costs.

*Table 6.2.2 General Aviation Major Rehabilitation Planning-Level Unit Cost by Pavement Type*

Rehabilitation Type	PCI Range	Flexible Asphalt Concrete Cost Per SF	Rigid Portland Cement Concrete Cost per SF
Restoration	41 to 65	\$ 7.00	\$ 10.00
Reconstruction	0 to 40	\$ 9.00	\$ 15.00

*Planning-level opinion of probable construction unit costs consider factors for non-pavement improvements, QA/QC testing, and administrative costs.*

## 6.3 Major Rehabilitation Needs

The objective of the major pavement rehabilitation needs analysis is to provide planning-level projects within an airport's airfield pavement network. Major rehabilitation activities are recommended when a pavement section has deteriorated below the Critical PCI value, a point at which localized maintenance and repair activities may not be the most cost-effective solution. In addition, major rehabilitation is also recommended when the Section PCI is at or above the Critical PCI but the section has significant load-related PCI distresses. Identification of rehabilitation needs is done at the Airfield Pavement Network Definition's section level. This however does not limit the airport from further refining limits of project planning areas.

Major rehabilitation is identified within the FDOT SAPMP as major construction activity that would result in an improvement or resetting of the pavement section's PCI to a value of 100. Major rehabilitation recommendations (AC Restoration, AC Reconstruction, PCC Restoration, and PCC Reconstruction) should be considered as planning-level only. Additional design-level investigation in accordance to the FAA Advisory Circulars will be required. Recommendations identified within this planning document do not imply final design.

### 6.3.1 10-Year Unconstrained Budget Major Rehabilitation Needs

An unconstrained budget (unlimited budget) is performed for a 10-year duration to identify pavement rehabilitation needs based on current or forecasted PCI values deteriorating below the Critical PCI. FDOT recognizes airports are constrained by budgets and does not intend to convey an unrealistic approach of addressing pavement rehabilitation. The intent of the 10-Year Major Rehabilitation Needs analysis is to identify pavements that will warrant rehabilitation. It is highly recommended that airport staff utilize this information in support of the development of a practical Capital Improvement Program based on priorities, further design/project-level



investigation, and budgetary constraints. The following **Table 6.3.1** summarizes all identified section-level major rehabilitation needs forecasted for the next 10-year period. It should be noted that the following table depicts planning-level costs and have been rounded for planning purposes.

*Table 6.3.1 10-Year Major Rehabilitation Needs*

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2020	LEE	AP N	4105	AC	323,324	51	AC Restoration	\$ 2,264,000.00
2020	LEE	AP N	4120	PCC	6,600	57	PCC Restoration	\$ 67,000.00
2020	LEE	AP N	4125	AC	59,690	64	AC Restoration	\$ 418,000.00
2020	LEE	AP N	4135	PCC	18,579	30	PCC Reconstruction	\$ 279,000.00
2020	LEE	AP N	4140	PCC	8,600	10	PCC Reconstruction	\$ 130,000.00
2020	LEE	AP RFUEL	4505	AC	25,329	24	AC Reconstruction	\$ 228,000.00
2020	LEE	RW 13-31	6105	AAC	250,000	60	AC Restoration	\$ 1,751,000.00
2020	LEE	RW 13-31	6110	AAC	250,000	64	AC Restoration	\$ 1,751,000.00
2020	LEE	TL APRON	4305	AC	10,698	33	AC Reconstruction	\$ 97,000.00
2020	LEE	TW A1	120	AC	4,409	57	AC Restoration	\$ 31,000.00
2020	LEE	TW A2	130	AC	4,287	64	AC Restoration	\$ 31,000.00
2020	LEE	TW A3	140	AC	4,673	62	AC Restoration	\$ 33,000.00
2020	LEE	TW B	205	AAC	4,534	63	AC Restoration	\$ 32,000.00
2020	LEE	TW D	400	AC	22,621	55	AC Restoration	\$ 159,000.00
2020	LEE	TW K	705	AC	33,012	64	AC Restoration	\$ 232,000.00
2020	LEE	TW K	715	AC	4,634	62	AC Restoration	\$ 33,000.00
2022	LEE	AP T-HANG	4205	AC	45,127	64	AC Restoration	\$ 316,000.00
2024	LEE	TL T-HANG	4110	AC	14,559	64	AC Restoration	\$ 102,000.00

*\*All values have been rounded to the nearest thousand-dollar.*

The following **Figure 6.3.1 (a)** summarizes the section-level major rehabilitation needs for a 10-year period between 2020 and 202\*. **Figure 6.3.1 (b)** provides an inset view of Airfield Pavement Major Rehabilitation Exhibit, a large format exhibit is located in **Appendix C Technical Exhibits**. The exhibit graphically depicts the Major Rehabilitation Needs with rounded costs.



Figure 6.3.1 (a) 10-Year Major Rehabilitation Needs by Program Year

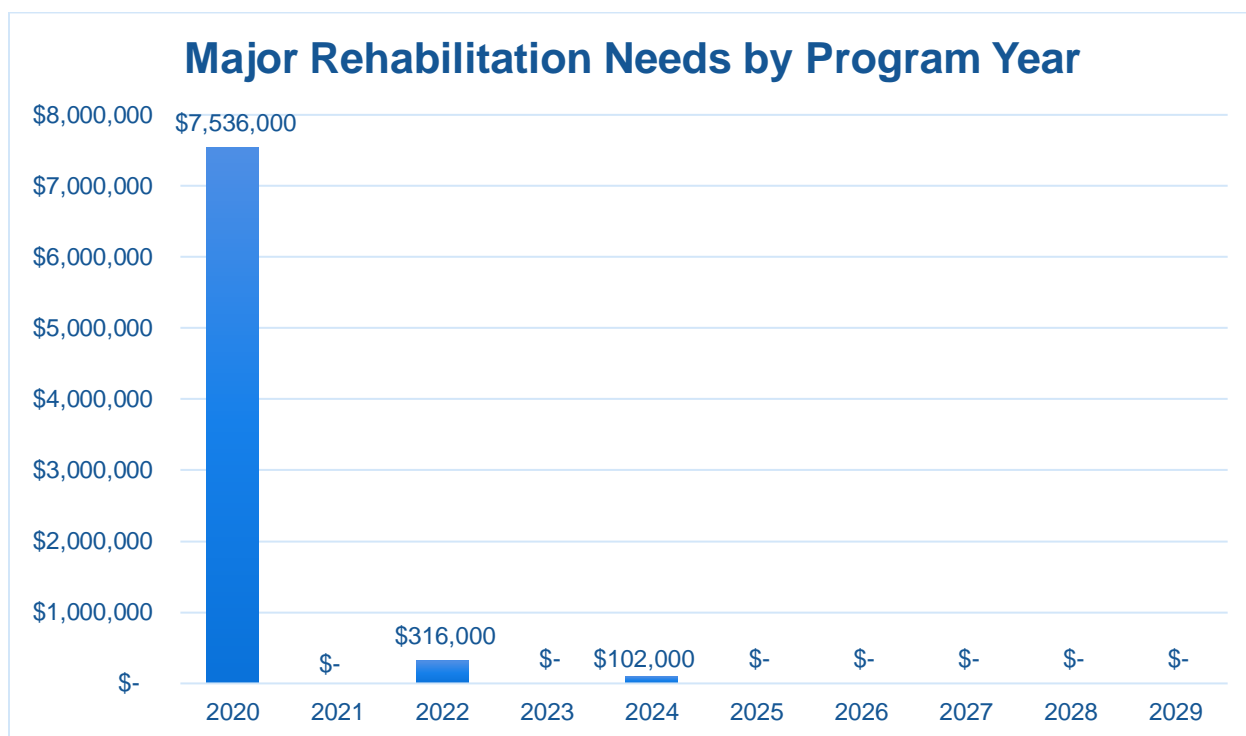
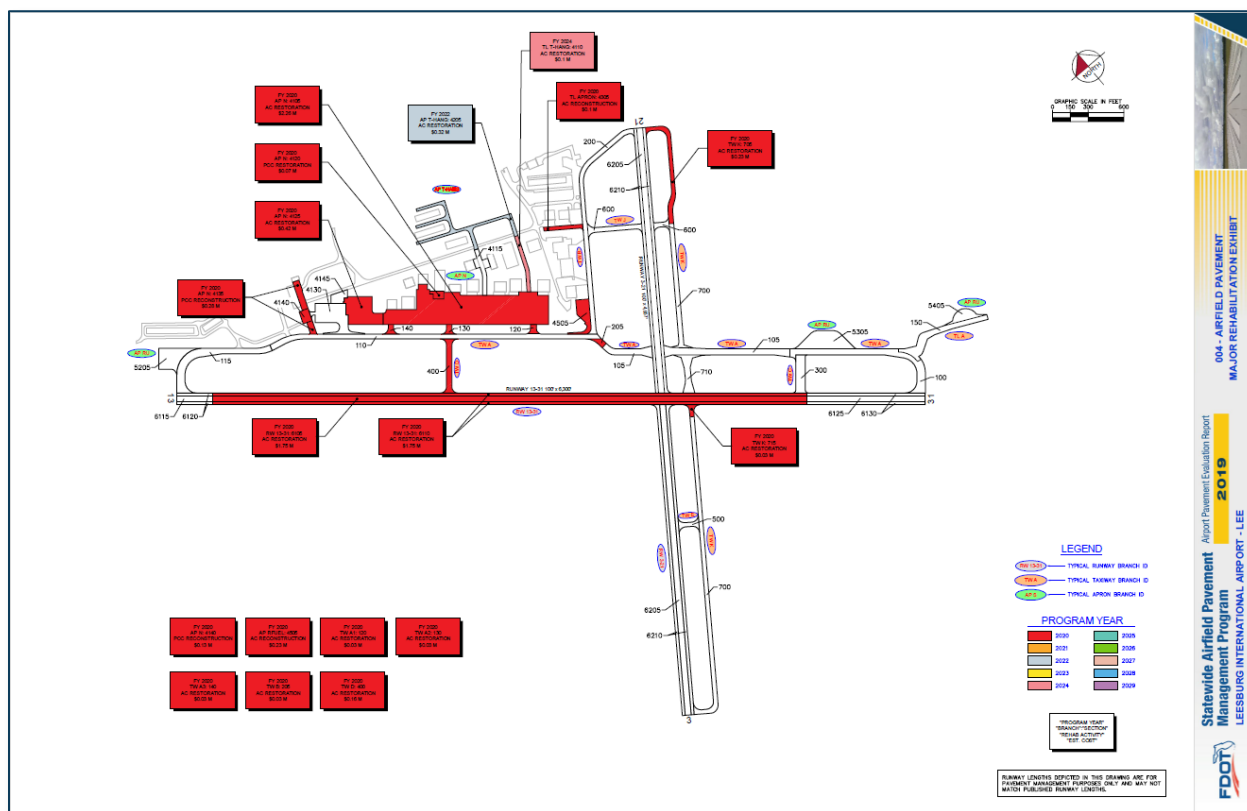
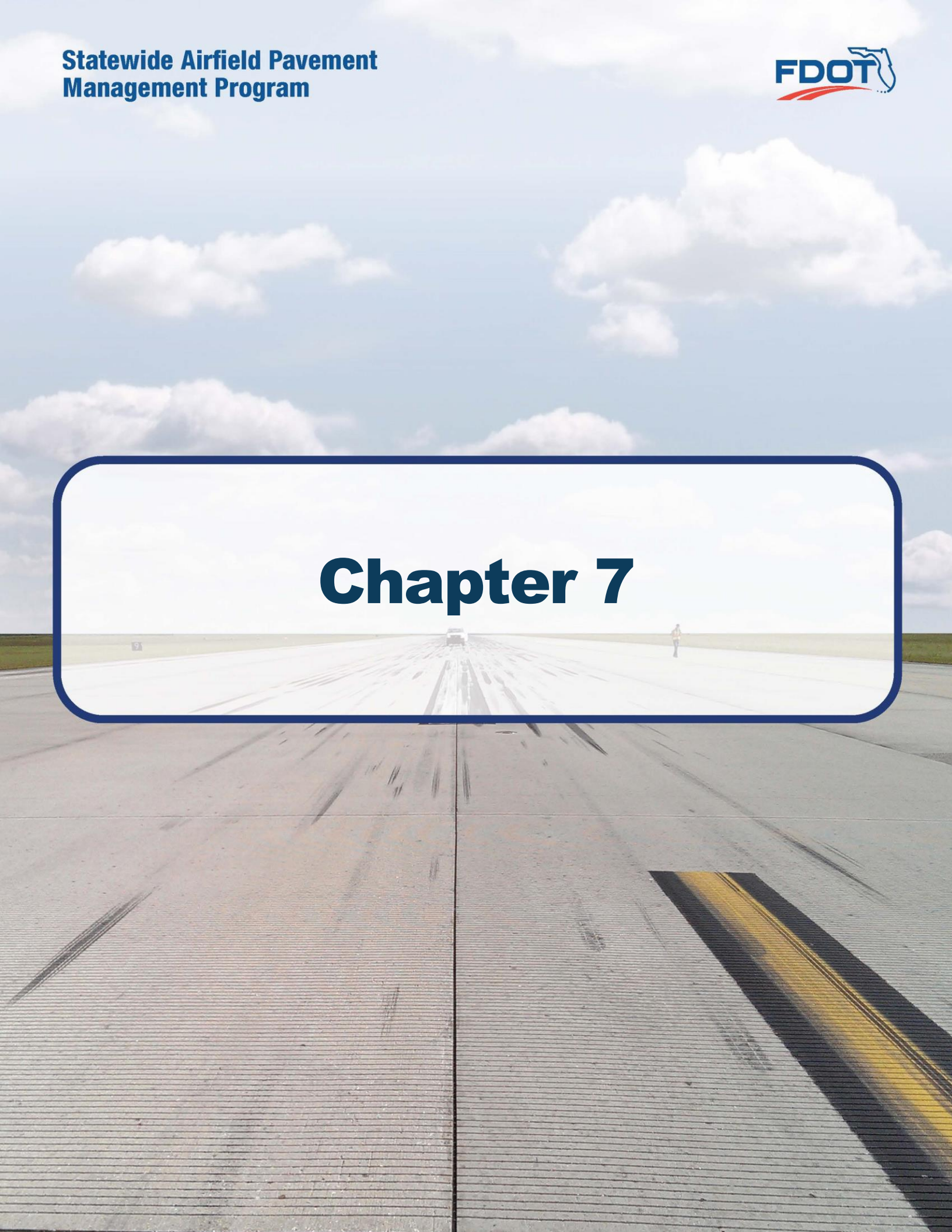


Figure 6.3.1 (b) 10-Year Major Rehabilitation Needs by Program Year Exhibit





# **Chapter 7**





# Chapter 7 – Conclusion

## 7.1 Recommendations

### 7.1.1 Continued PCI Survey Inspections

It is recommended that the airport continue to perform regularly scheduled PCI Survey inspections in accordance with the ASTM D5340-12 (or latest edition) to monitor the condition of the airfield pavement facilities.

A high priority should be considered for continuous maintenance record keeping and re-inspection of all the airport's maintained pavement facilities to ensure continued safe aircraft operations. A series of scheduled periodic inspections must be carried out for an effective maintenance program. Re-inspection of pavements should be scheduled in a timely manner to ensure that all areas, particularly those that may not come under day-to-day observation, are thoroughly evaluated and reported.

### 7.1.2 Localized Maintenance and Repair

While deterioration of the pavements due to usage and exposure to the environment cannot be completely prevented, applying timely and effective maintenance efforts can slow the anticipated rate of deterioration. Lack of adequate and timely maintenance is the significant factor in pavement deterioration.

It is recommended that airport sponsors coordinate with their respective Airport Maintenance staff and Airport Engineer when developing project-level maintenance and repair efforts.

### 7.1.3 Major Rehabilitation

Chapter 6 – Major Rehabilitation Planning identified major pavement rehabilitation project needs from 2020-2029. The identification of the rehabilitation needs was performed at the section level for manageable project areas with the assumption of an unconstrained budget scenario. Given the uncertainty in the airport-specific budget information and prioritization goals, the unconstrained budget scenario was performed to evaluate the worst-case scenario and identify all the inspected pavements' needs in a 10-year period. Certainly, it is understood that most airports are faced with constrained budgets; further evaluation of projects based on prioritization, operational criticality, funding availability, and practicality is recommended.

### 7.1.4 Pavement Management System

The following recommendations are made to fully implement an effective pavement management program for the airport:

- ▶ Develop a detailed preventive maintenance program for the airport.
- ▶ Further refine and implement the identified 10-year major rehabilitation needs.
- ▶ Maintain detailed records on pavement maintenance, construction, and inspection.
- ▶ Maintain records on major pavement construction projects (year, scope, cost, and construction documents).



## 7.2 Supporting Documents

### *001 – Airfield Pavement Network Definition Exhibit*

The Airfield Pavement Network Definition Exhibit is located in **Appendix C Technical Exhibits**. The exhibit depicts the airfield layout in a manner that defines the airfield pavement infrastructure as branches, sections, and sample units in accordance with the ASTM D5340-12. The exhibit is intended for planning purposes only – further detail on facilities can be found on the Airport's adopted Airport Layout Plan. Detailed characteristics are tabulated in **Appendix A Pavement Analysis Tables**.

### *002 – Airfield Pavement System Inventory Exhibit*

The Airfield Pavement System Inventory Exhibit is located in **Appendix C Technical Exhibits**. The exhibit depicts any recent and/or anticipated construction activity within the airfield pavement facilities reported by airport staff. The exhibit is intended to schematically identify the pavement limits of works and general work description. The information reported on the **Airport Response Form** provided by each participating airport was used as the basis of the changes; furthermore, changes are confirmed at the airport with airport staff during the in-brief and debrief meeting.

### *003 – Airfield Pavement Condition Index Exhibit*

The Airfield Pavement Condition Index Exhibit is located in **Appendix C Technical Exhibits**. The exhibit is a visual summary of the latest conditions calculated from the results of the PCI Survey performed at the airport. The analysis of the distresses surveyed in accordance with the ASTM D5340-12 (referenced in **Appendix E Inspection Distress Details**) were analyzed using PAVER™ software to determine PCI values. The PCI values are identified in the exhibit and graphically represented using the standard ASTM D5340-12 colors for condition rating categories.

### *004 – Airfield Pavement Major Rehabilitation Exhibit*

The Airfield Pavement Major Rehabilitation Exhibit is located in **Appendix C Technical Exhibits**. The exhibit has been prepared based on the section condition analysis, pavement condition forecasts, and major rehabilitation needs analysis. The exhibit graphically depicts the inventory with the associated rehabilitation type activity, program year, and the planning-level costs. The area limits, rehabilitation type, and planning-level costs should not be considered a design-level recommendation. A tabulation of the 10-Year Major Rehabilitation is located in **Appendix B Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation**.

### *Inspection Photograph Documentation*

Representative field conditions from the PCI Survey are documented with digital photographs located in **Appendix D Inspection Photograph Documentation**. Select photographs are provided with limited caption on the distresses observed – the Appendix does not contain photographs for every sample unit.



## 7.3 Conclusion

The FDOT SAPMP Update Phase 2 2018-2019 was completed for the airport on behalf of the FDOT ASO in accordance with the Advisory Circulars **150/5380-7B “Airport Pavement Management Program (PMP)”** and **150/5380-6C “Guidelines and Procedures for Maintenance of Airport Pavements.”** FDOT’s implementation of the SAPMP has assisted public airports with this requirement in performing PCI survey inspections and analysis in accordance with the ASTM **D5340-12 “Standard Test Method for Airport Pavement Condition Index Surveys.”**



# Appendix A

## Airfield Pavement Analysis Tables



Table A-1 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
LEE	NORTH APRON	AP N	APRON	4105	804	200	323,324	AC	1/1/1989
LEE	NORTH APRON	AP N	APRON	4120	200	30	6,600	PCC	12/25/2000
LEE	NORTH APRON	AP N	APRON	4125	293	235	59,690	AC	1/1/2005
LEE	NORTH APRON	AP N	APRON	4130	304	160	56,108	PCC	1/1/2008
LEE	NORTH APRON	AP N	APRON	4135	260	50	18,579	PCC	1/1/1942
LEE	NORTH APRON	AP N	APRON	4140	66	200	8,600	PCC	1/1/1942
LEE	NORTH APRON	AP N	APRON	4145	138	94	11,497	AC	7/1/2016
LEE	RE-FUELING APRON	AP RFUEL	APRON	4505	200	100	25,329	AC	1/1/1989
LEE	RUNUP APRON	AP RU	APRON	5205	235	175	36,679	AC	1/1/2008
LEE	RUNUP APRON	AP RU	APRON	5305	410	160	54,952	AC	1/1/2009
LEE	RUNUP APRON	AP RU	APRON	5405	180	100	18,231	AC	1/1/2019
LEE	APRON T-HANGAR	AP T-HANG	APRON	4205	1,500	25	45,127	AC	1/1/2003
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6105	5,000	100	250,000	AAC	1/1/2000
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6110	5,000	100	250,000	AAC	1/1/2000
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6115	300	50	15,000	AC	12/12/2009
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6120	300	50	15,000	AC	12/12/2009
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6125	1,000	50	50,000	AC	1/1/2009
LEE	RUNWAY 13-31	RW 13-31	RUNWAY	6130	1,000	50	50,000	AC	1/1/2009
LEE	RUNWAY 3-21	RW 3-21	RUNWAY	6205	3,900	75	242,833	AAC	1/1/2011
LEE	RUNWAY 3-21	RW 3-21	RUNWAY	6210	4,857	25	244,205	AAC	1/1/2011
LEE	TAXILANE A	TL A	TAXILANE	150	750	40	45,971	AC	1/1/2019
LEE	TAXILANE TO APRON	TL APRON	TAXILANE	4305	300	35	10,698	AC	1/1/1982
LEE	TAXILANE TO T-HANGARS	TL T-HANG	TAXILANE	4110	300	30	14,559	AC	12/25/2000
LEE	TAXILANE TO T-HANGARS	TL T-HANG	TAXILANE	4115	300	30	20,585	AC	12/25/2000
LEE	TAXIWAY A	TW A	TAXIWAY	100	1,400	50	76,252	AC	1/1/2009
LEE	TAXIWAY A	TW A	TAXIWAY	105	1,460	50	82,235	AC	1/1/2014
LEE	TAXIWAY A	TW A	TAXIWAY	110	3,790	50	113,871	AAC	1/1/2000
LEE	TAXIWAY A	TW A	TAXIWAY	115	1,400	50	62,194	AC	1/1/2009
LEE	TAXIWAY A1	TW A1	TAXIWAY	120	80	50	4,409	AC	1/1/1989
LEE	TAXIWAY A2	TW A2	TAXIWAY	130	80	40	4,287	AC	1/1/1989
LEE	TAXIWAY A3	TW A3	TAXIWAY	140	80	30	4,673	AC	1/1/1989
LEE	TAXIWAY B	TW B	TAXIWAY	200	1,040	40	76,570	AAC	1/1/2011
LEE	TAXIWAY B	TW B	TAXIWAY	205	91	50	4,534	AAC	1/1/2002
LEE	TAXIWAY C	TW C	TAXIWAY	300	320	80	25,917	AC	1/1/2009
LEE	TAXIWAY D	TW D	TAXIWAY	400	450	55	22,621	AC	1/1/2002
LEE	TAXIWAY E	TW E	TAXIWAY	500	200	45	8,617	AC	1/1/2011



Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
LEE	TAXIWAY J	TW J	TAXIWAY	600	430	40	26,600	AAC	1/1/2011
LEE	TAXIWAY K	TW K	TAXIWAY	700	3,950	35	138,244	AAC	1/1/2011
LEE	TAXIWAY K	TW K	TAXIWAY	705	800	60	33,012	AC	1/1/2004
LEE	TAXIWAY K	TW K	TAXIWAY	710	325	70	23,819	AC	1/1/2014
LEE	TAXIWAY K	TW K	TAXIWAY	715	100	35	4,634	AC	1/1/1986



Table A-2 Pavement Condition Index Summary (Last Inspection) – Section Level

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
LEE	RUNWAY 13-31	RUNWAY	6105	250,000	61	Fair
LEE	RUNWAY 13-31	RUNWAY	6110	250,000	66	Fair
LEE	RUNWAY 13-31	RUNWAY	6115	15,000	86	Good
LEE	RUNWAY 13-31	RUNWAY	6120	15,000	90	Good
LEE	RUNWAY 13-31	RUNWAY	6125	50,000	82	Satisfactory
LEE	RUNWAY 13-31	RUNWAY	6130	50,000	88	Good
LEE	RUNWAY 3-21	RUNWAY	6205	242,833	87	Good
LEE	RUNWAY 3-21	RUNWAY	6210	244,205	88	Good
LEE	TAXIWAY A	TAXIWAY	100	76,252	85	Satisfactory
LEE	TAXIWAY A	TAXIWAY	105	82,235	93	Good
LEE	TAXIWAY A	TAXIWAY	110	113,871	78	Satisfactory
LEE	TAXIWAY A	TAXIWAY	115	62,194	89	Good
LEE	TAXIWAY A1	TAXIWAY	120	4,409	59	Fair
LEE	TAXIWAY A2	TAXIWAY	130	4,287	65	Fair
LEE	TAXIWAY A3	TAXIWAY	140	4,673	63	Fair
LEE	TAXIWAY B	TAXIWAY	200	76,570	83	Satisfactory
LEE	TAXIWAY B	TAXIWAY	205	4,534	65	Fair
LEE	TAXIWAY C	TAXIWAY	300	25,917	83	Satisfactory
LEE	TAXIWAY D	TAXIWAY	400	22,621	57	Fair
LEE	TAXIWAY E	TAXIWAY	500	8,617	90	Good
LEE	TAXIWAY J	TAXIWAY	600	26,600	90	Good
LEE	TAXIWAY K	TAXIWAY	700	138,244	82	Satisfactory
LEE	TAXIWAY K	TAXIWAY	705	33,012	65	Fair
LEE	TAXIWAY K	TAXIWAY	710	23,819	94	Good
LEE	TAXIWAY K	TAXIWAY	715	4,634	63	Fair
LEE	TAXILANE A	TAXILANE	150	45,971	100	Good
LEE	TAXILANE TO T-HANGARS	TAXILANE	4110	14,559	69	Fair
LEE	TAXILANE TO T-HANGARS	TAXILANE	4115	20,585	80	Satisfactory
LEE	TAXILANE TO APRON	TAXILANE	4305	10,698	35	Very Poor
LEE	NORTH APRON	APRON	4105	323,324	53	Poor
LEE	NORTH APRON	APRON	4120	6,600	59	Fair
LEE	NORTH APRON	APRON	4125	59,690	66	Fair
LEE	NORTH APRON	APRON	4130	56,108	94	Good
LEE	NORTH APRON	APRON	4135	18,579	31	Very Poor
LEE	NORTH APRON	APRON	4140	8,600	12	Serious
LEE	NORTH APRON	APRON	4145	11,497	100	Good
LEE	APRON T-HANGAR	APRON	4205	45,127	69	Fair
LEE	RE-FUELING APRON	APRON	4505	25,329	26	Very Poor





Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
LEE	RUNUP APRON	APRON	5205	36,679	85	Satisfactory
LEE	RUNUP APRON	APRON	5305	54,952	90	Good
LEE	RUNUP APRON	APRON	5405	18,231	100	Good



Table A-3 Forecasted PCI 2020-2029

Network ID	Branch ID	Section ID	Last PCI	Forecasted PCI									
				2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
LEE	AP N	4105	53	51	49	48	46	45	43	42	40	38	37
LEE	AP N	4120	59	57	56	55	54	52	51	51	50	49	48
LEE	AP N	4125	66	64	62	61	59	58	56	55	53	51	50
LEE	AP N	4130	94	91	88	85	82	80	77	75	73	71	69
LEE	AP N	4135	31	30	29	27	26	25	24	23	22	21	20
LEE	AP N	4140	12	10	9	8	7	6	5	4	3	2	1
LEE	AP N	4145	100	94	92	91	89	88	86	84	83	81	80
LEE	AP RFUEL	4505	26	24	22	21	19	18	16	15	13	11	10
LEE	AP RU	5205	85	83	81	80	78	77	75	74	72	70	69
LEE	AP RU	5305	90	88	86	85	83	82	80	79	77	75	74
LEE	AP RU	5405	100	98	96	95	93	92	90	88	87	85	84
LEE	AP T-HANG	4205	69	67	65	64	62	61	59	58	56	54	53
LEE	RW 13-31	6105	61	60	60	60	60	60	60	59	59	58	56
LEE	RW 13-31	6110	66	64	63	62	61	61	60	60	60	60	60
LEE	RW 13-31	6115	86	84	82	81	79	77	76	74	73	71	69
LEE	RW 13-31	6120	90	88	86	85	83	81	80	78	77	75	73
LEE	RW 13-31	6125	82	80	78	77	75	73	72	70	69	67	65
LEE	RW 13-31	6130	88	86	84	83	81	79	78	76	75	73	71
LEE	RW 3-21	6205	87	84	82	79	77	74	72	70	68	66	65
LEE	RW 3-21	6210	88	85	83	80	78	75	73	71	69	67	65
LEE	TL A	150	100	97	95	93	90	88	85	83	80	78	76
LEE	TL APRON	4305	35	33	32	31	31	30	29	28	28	27	26
LEE	TL T-HANG	4110	69	68	67	66	65	64	63	62	61	60	59
LEE	TL T-HANG	4115	80	78	76	74	73	71	70	69	68	67	66
LEE	TW A	100	85	82	80	78	76	74	73	71	70	69	68
LEE	TW A	105	93	90	88	85	83	81	78	76	75	73	72
LEE	TW A	110	78	76	75	74	73	72	71	70	69	68	67
LEE	TW A	115	89	86	84	81	79	77	75	74	72	71	70
LEE	TW A1	120	59	57	56	55	54	52	51	49	47	46	44
LEE	TW A2	130	65	64	63	62	61	60	59	58	57	55	54
LEE	TW A3	140	63	62	61	60	59	58	56	55	54	52	51
LEE	TW B	200	83	81	79	77	75	74	73	72	71	70	70
LEE	TW B	205	65	63	62	60	59	57	55	54	52	50	49
LEE	TW C	300	83	80	78	76	75	73	72	70	69	68	67
LEE	TW D	400	57	55	54	53	51	49	48	46	45	43	41
LEE	TW E	500	90	87	85	82	80	78	76	74	73	71	70
LEE	TW J	600	90	87	84	82	80	78	76	75	74	73	72



Network ID	Branch ID	Section ID	Last PCI	Forecasted PCI									
				2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
LEE	TW K	700	82	80	78	76	75	74	73	72	71	70	69
LEE	TW K	705	65	64	63	62	61	60	59	58	57	55	54
LEE	TW K	710	94	91	89	86	84	81	79	77	75	74	72
LEE	TW K	715	63	62	61	60	59	58	56	55	54	52	51

10/3/2019

## Work History Report

Page 1 of 7

Pavement Database: FDOT

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP N		NORTH APRON		<b>Section:</b> 4105	<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/1989	<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 804.00 (Ft)	<b>Width:</b> 200.00 (Ft)	<b>True Area:</b> 323324.0000 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2007	ST-SC	Surface Treatment - Seal Coat	0.00	0.00	<input type="checkbox"/>	UNKNOWN SEAL COAT	
1/1/1989	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	ESTIMATE 1989 AC PAVEMENT	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP N		NORTH APRON		<b>Section:</b> 4120	<b>Surface:</b> PCC
<b>L.C.D.</b> 12/25/200	<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 200.00 (Ft)	<b>Width:</b> 30.00 (Ft)	<b>True Area:</b> 6600.000002 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
12/25/2000	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>		

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP N		NORTH APRON		<b>Section:</b> 4125	<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/2005	<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 293.00 (Ft)	<b>Width:</b> 235.00 (Ft)	<b>True Area:</b> 59690.00001 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2005	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>		

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP N		NORTH APRON		<b>Section:</b> 4130	<b>Surface:</b> PCC
<b>L.C.D.</b> 1/1/2008	<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 304.00 (Ft)	<b>Width:</b> 160.00 (Ft)	<b>True Area:</b> 56108.00001 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2008	NU-IN	New Construction - Initial	0.00	11.00	<input checked="" type="checkbox"/>	11" P-501, 4" P-211, COMPACTED S	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP N		NORTH APRON		<b>Section:</b> 4135	<b>Surface:</b> PCC
<b>L.C.D.</b> 1/1/1942	<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 260.00 (Ft)	<b>Width:</b> 50.00 (Ft)	<b>True Area:</b> 18579.00000 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1942	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	ESTIMATE 1942 PCC PAVEMENT	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP N		NORTH APRON		<b>Section:</b> 4140	<b>Surface:</b> PCC
<b>L.C.D.</b> 1/1/1942	<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 66.00 (Ft)	<b>Width:</b> 200.00 (Ft)	<b>True Area:</b> 8600.000002 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1942	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	ESTIMATE 1942 PCC PAVEMENT	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP N		NORTH APRON		<b>Section:</b> 4145	<b>Surface:</b> AC
<b>L.C.D.</b> 7/1/2016	<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 138.00 (Ft)	<b>Width:</b> 94.00 (Ft)	<b>True Area:</b> 11497.00000 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
7/1/2016	NC-AC	New Construction - AC			<input checked="" type="checkbox"/>		



10/3/2019

## Work History Report

Page 2 of 7

Pavement Database: FDOT

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP RFUEL RE-FUELING AP		<b>Section:</b> 4505		<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/1989		<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 200.00 (Ft)	<b>Width:</b> 100.00 (Ft)	<b>True Area:</b> 25329.00000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1989	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP RU RUNUP APRON		<b>Section:</b> 5205		<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/2008		<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 235.00 (Ft)	<b>Width:</b> 175.00 (Ft)	<b>True Area:</b> 36679.00001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2008	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	UNKNOWN AC CONST.

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP RU RUNUP APRON		<b>Section:</b> 5305		<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/2009		<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 410.00 (Ft)	<b>Width:</b> 160.00 (Ft)	<b>True Area:</b> 54952.00001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2009	NU-IN	New Construction - Initial	0.00	4.00	<input checked="" type="checkbox"/>	4" P-401, 6" P-211, COMPACTED S

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP RU RUNUP APRON		<b>Section:</b> 5405		<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/2019		<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 180.00 (Ft)	<b>Width:</b> 100.00 (Ft)	<b>True Area:</b> 18231.00000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2019	NC-AC	New Construction - AC			<input checked="" type="checkbox"/>	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> AP T-HANG APRON T-HANG		<b>Section:</b> 4205		<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/2003		<b>Use:</b> APRON	<b>Rank:</b> P	<b>Length:</b> 1,500.00 (Ft)	<b>Width:</b> 25.00 (Ft)	<b>True Area:</b> 45127.00001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2003	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> RW 13-31 RUNWAY 13-31		<b>Section:</b> 6105		<b>Surface:</b> AAC
<b>L.C.D.</b> 1/1/2000		<b>Use:</b> RUNWAY	<b>Rank:</b> P	<b>Length:</b> 5,000.00 (Ft)	<b>Width:</b> 100.00 (Ft)	<b>True Area:</b> 250000.0000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2000	OL-AS	Overlay - AC Structural	0.00	2.00	<input checked="" type="checkbox"/>	2" OL P-401
1/1/1980	OL-AS	Overlay - AC Structural	0.00	6.00	<input checked="" type="checkbox"/>	1980: 1.5" TYPE S-1 AC AND VARI
1/1/1942	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> RW 13-31 RUNWAY 13-31		<b>Section:</b> 6110		<b>Surface:</b> AAC
<b>L.C.D.</b> 1/1/2000		<b>Use:</b> RUNWAY	<b>Rank:</b> P	<b>Length:</b> 5,000.00 (Ft)	<b>Width:</b> 100.00 (Ft)	<b>True Area:</b> 250000.0000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2000	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/>	2" OL P-401
1/1/1980	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/>	1980: 1.5" TYPE S-1 AC AND VARI
1/1/1942	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1942: EST CONSTRUCTION

10/3/2019

## Work History Report

Page 3 of 7

Pavement Database: FDOT

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> RW 13-31    RUNWAY 13-31 <b>Section:</b> 6115 <b>Surface:</b> AC <b>L.C.D.</b> 12/12/200 <b>Use:</b> RUNWAY <b>Rank:</b> P <b>Length:</b> 300.00 (Ft) <b>Width:</b> 50.00 (Ft) <b>True Area:</b> 15000.00000 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/12/2009	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	NEW CONSTRUCTION BETWEEN

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> RW 13-31    RUNWAY 13-31 <b>Section:</b> 6120 <b>Surface:</b> AC <b>L.C.D.</b> 12/12/200 <b>Use:</b> RUNWAY <b>Rank:</b> P <b>Length:</b> 300.00 (Ft) <b>Width:</b> 50.00 (Ft) <b>True Area:</b> 15000.00000 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/12/2009	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	CONSTRUCTION ESTIMATE BET

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> RW 13-31    RUNWAY 13-31 <b>Section:</b> 6125 <b>Surface:</b> AC <b>L.C.D.</b> 1/1/2009 <b>Use:</b> RUNWAY <b>Rank:</b> P <b>Length:</b> 1,000.00 (Ft) <b>Width:</b> 50.00 (Ft) <b>True Area:</b> 50000.00001 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2009	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	4" P-401, 6" P-211

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> RW 13-31    RUNWAY 13-31 <b>Section:</b> 6130 <b>Surface:</b> AC <b>L.C.D.</b> 1/1/2009 <b>Use:</b> RUNWAY <b>Rank:</b> P <b>Length:</b> 1,000.00 (Ft) <b>Width:</b> 50.00 (Ft) <b>True Area:</b> 50000.00001 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2009	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	4" P-401, 6" P-211

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> RW 3-21    RUNWAY 3-21 <b>Section:</b> 6205 <b>Surface:</b> AAC <b>L.C.D.</b> 1/1/2011 <b>Use:</b> RUNWAY <b>Rank:</b> P <b>Length:</b> 3,900.00 (Ft) <b>Width:</b> 75.00 (Ft) <b>True Area:</b> 242833.0000 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2011	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/>	JANUARY 2011 OVERLAY
1/1/1983	CR-AC	Complete Reconstruction - AC	0.00	1.25	<input checked="" type="checkbox"/>	1983: 1.25" TYPE S-1 AC AND VAR
1/1/1942	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1942 EST CONST

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> RW 3-21    RUNWAY 3-21 <b>Section:</b> 6210 <b>Surface:</b> AAC <b>L.C.D.</b> 1/1/2011 <b>Use:</b> RUNWAY <b>Rank:</b> P <b>Length:</b> 4,857.00 (Ft) <b>Width:</b> 25.00 (Ft) <b>True Area:</b> 244205.0000 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2011	OL-MR	Overlay	0.00	0.00	<input checked="" type="checkbox"/>	JANUARY 2011 OVERLAY
1/1/1983	OL-MR	Overlay	0.00	0.00	<input checked="" type="checkbox"/>	1983: 1.25" TYPE S-1 AC AND VAR
1/1/1942	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	1942: EST CONST

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> TL A    TAXILANE A <b>Section:</b> 150 <b>Surface:</b> AC <b>L.C.D.</b> 1/1/2019 <b>Use:</b> TAXILAN <b>Rank:</b> P <b>Length:</b> 750.00 (Ft) <b>Width:</b> 40.00 (Ft) <b>True Area:</b> 45971.00001 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2019	NC-AC	New Construction - AC			<input checked="" type="checkbox"/>	

10/3/2019

## Work History Report

Page 4 of 7

Pavement Database: FDOT

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> TL APRON    TAXILANE TO A <b>Section:</b> 4305 <b>Surface:</b> AC <b>L.C.D.</b> 1/1/1982 <b>Use:</b> TAXILAN <b>Rank:</b> P <b>Length:</b> 300.00 (Ft) <b>Width:</b> 35.00 (Ft) <b>True Area:</b> 10698.00000 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2018	PA-AC	Patching - AC	0.00	0.00	<input type="checkbox"/>	
1/1/2018	ST-SC	Surface Treatment - Seal Coat	0.00	0.00	<input type="checkbox"/>	
1/1/1982	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> TL T-HANG    TAXILANE TO T- <b>Section:</b> 4110 <b>Surface:</b> AC <b>L.C.D.</b> 12/25/2000 <b>Use:</b> TAXILAN <b>Rank:</b> P <b>Length:</b> 300.00 (Ft) <b>Width:</b> 30.00 (Ft) <b>True Area:</b> 14559.00000 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/2000	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> TL T-HANG    TAXILANE TO T- <b>Section:</b> 4115 <b>Surface:</b> AC <b>L.C.D.</b> 12/25/2000 <b>Use:</b> TAXILAN <b>Rank:</b> P <b>Length:</b> 300.00 (Ft) <b>Width:</b> 30.00 (Ft) <b>True Area:</b> 20585.00000 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/2000	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> TW A    TAXIWAY A <b>Section:</b> 100 <b>Surface:</b> AC <b>L.C.D.</b> 1/1/2009 <b>Use:</b> TAXIWAY <b>Rank:</b> P <b>Length:</b> 1,400.00 (Ft) <b>Width:</b> 50.00 (Ft) <b>True Area:</b> 76252.00002 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2009	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	2009: 4" P-401, 6" P-211

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> TW A    TAXIWAY A <b>Section:</b> 105 <b>Surface:</b> AC <b>L.C.D.</b> 1/1/2014 <b>Use:</b> TAXIWAY <b>Rank:</b> P <b>Length:</b> 1,460.00 (Ft) <b>Width:</b> 50.00 (Ft) <b>True Area:</b> 82235.00002 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2014	NU-IN	New Construction - Initial	0.00	4.00	<input checked="" type="checkbox"/>	2014: 4" P-401, 6" P-211

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> TW A    TAXIWAY A <b>Section:</b> 110 <b>Surface:</b> AAC <b>L.C.D.</b> 1/1/2000 <b>Use:</b> TAXIWAY <b>Rank:</b> P <b>Length:</b> 3,790.00 (Ft) <b>Width:</b> 50.00 (Ft) <b>True Area:</b> 113871.0000 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2000	OL-AS	Overlay - AC Structural	0.00	2.00	<input checked="" type="checkbox"/>	2" OVERLAY P-401
1/1/1982	CR-AC	Complete Reconstruction - AC	0.00	1.50	<input checked="" type="checkbox"/>	1982: 1.5" TYPE S-1 AC AND VARI
1/1/1942	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1942: EST. CONST

<b>Network:</b> LEESBURG INTERN <b>Branch:</b> TW A1    TAXIWAY A1 <b>Section:</b> 120 <b>Surface:</b> AC <b>L.C.D.</b> 1/1/1989 <b>Use:</b> TAXIWAY <b>Rank:</b> P <b>Length:</b> 80.00 (Ft) <b>Width:</b> 50.00 (Ft) <b>True Area:</b> 4409.000001 (SqFt)						
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1989	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	EST 1989 AC PAVEMENT (SAME AS RAMP)

10/3/2019

## Work History Report

Page 5 of 7

Pavement Database: FDOT

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> TW A		TAXIWAY A		<b>Section:</b> 115	<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/2009		<b>Use:</b> TAXIWAY	<b>Rank:</b> P	<b>Length:</b> 1,400.00 (Ft)	<b>Width:</b> 50.00 (Ft)	<b>True Area:</b> 62194.00001 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2009	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	2009: NEW CONST	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> TW A2		TAXIWAY A2		<b>Section:</b> 130	<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/1989		<b>Use:</b> TAXIWAY	<b>Rank:</b> P	<b>Length:</b> 80.00 (Ft)	<b>Width:</b> 40.00 (Ft)	<b>True Area:</b> 4287.000001 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1989	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	ESTIMATE 1989 AC PAVEMENT	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> TW A3		TAXIWAY A3		<b>Section:</b> 140	<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/1989		<b>Use:</b> TAXIWAY	<b>Rank:</b> P	<b>Length:</b> 80.00 (Ft)	<b>Width:</b> 30.00 (Ft)	<b>True Area:</b> 4673.000001 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1989	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	EST 1989 AC (SAME AS RAMP)	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> TW B		TAXIWAY B		<b>Section:</b> 200	<b>Surface:</b> AAC
<b>L.C.D.</b> 1/1/2011		<b>Use:</b> TAXIWAY	<b>Rank:</b> P	<b>Length:</b> 1,040.00 (Ft)	<b>Width:</b> 40.00 (Ft)	<b>True Area:</b> 76570.00002 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2011	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/>	1983: 1.25" TYPE S-1 AC AND VAR	
1/1/1983	NC-AC	New Construction - AC	0.00	1.25	<input checked="" type="checkbox"/>		

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> TW B		TAXIWAY B		<b>Section:</b> 205	<b>Surface:</b> AAC
<b>L.C.D.</b> 1/1/2002		<b>Use:</b> TAXIWAY	<b>Rank:</b> P	<b>Length:</b> 91.00 (Ft)	<b>Width:</b> 50.00 (Ft)	<b>True Area:</b> 4534.000001 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2002	ML-OV	MILL and OVERLAY	0.00	2.00	<input checked="" type="checkbox"/>	2002: 2" MILL AND OVERLAY	
1/1/1982	ML-OV	MILL and OVERLAY	0.00	1.50	<input checked="" type="checkbox"/>	1.5" TYPE S-1 AC AND VARIABLE	
12/25/1942	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	ESTIMATED CONST. DATE	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> TW C		TAXIWAY C		<b>Section:</b> 300	<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/2009		<b>Use:</b> TAXIWAY	<b>Rank:</b> P	<b>Length:</b> 320.00 (Ft)	<b>Width:</b> 80.00 (Ft)	<b>True Area:</b> 25917.00000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2009	NU-IN	New Construction - Initial	0.00	4.00	<input checked="" type="checkbox"/>	2009: 4" P-401, 6" P-211	

<b>Network:</b> LEESBURG INTERN		<b>Branch:</b> TW D		TAXIWAY D		<b>Section:</b> 400	<b>Surface:</b> AC
<b>L.C.D.</b> 1/1/2002		<b>Use:</b> TAXIWAY	<b>Rank:</b> P	<b>Length:</b> 450.00 (Ft)	<b>Width:</b> 55.00 (Ft)	<b>True Area:</b> 22621.00000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2002	NU-IN	New Construction - Initial	0.00	4.00	<input checked="" type="checkbox"/>	2002: 4" P-401, 6" P-211, 12" P-152 (	

10/3/2019

## Work History Report

Page 6 of 7

Pavement Database: FDOT

Network: LEESBURG INTERN Branch: TW E TAXIWAY E Section: 500 Surface:AC  
 L.C.D. 1/1/2011 Use: TAXIWAY Rank: P Length: 200.00 (Ft) Width: 45.00 (Ft) True Area: 8617.000002 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2011	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	2011: UNKNOWN PVMT SECTION

Network: LEESBURG INTERN Branch: TW J TAXIWAY J Section: 600 Surface: AAC  
 L.C.D. 1/1/2011 Use: TAXIWAY Rank: P Length: 430.00 (Ft) Width: 40.00 (Ft) True Area: 26600.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2011	ML-OV	MILL and OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>	OVERLAY - DETAILS UNKNOWN
1/1/1982	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1982: 1.5" TYPE S-1 AC ON 8" P-21

Network: LEESBURG INTERN Branch: TW K TAXIWAY K Section: 700 Surface: AAC  
 L.C.D. 1/1/2011 Use: TAXIWAY Rank: P Length: 3,950.00 (Ft) Width: 35.00 (Ft) True Area: 138244.0000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2011	ML-OV	MILL and OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>	2011: UNKNOWN OVERLAY
1/1/1986	IMPORT ED	BUILT	0.00	1.50	<input checked="" type="checkbox"/>	1986: 1.5" AC ON 8" LIME ROCK. SOIL: SP.

Network: LEESBURG INTERN Branch: TW K TAXIWAY K Section: 705 Surface: AC  
 L.C.D. 1/1/2004 Use: TAXIWAY Rank: P Length: 800.00 (Ft) Width: 60.00 (Ft) True Area: 33012.00001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2004	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	

Network: LEESBURG INTERN Branch: TW K TAXIWAY K Section: 710 Surface: AC  
 L.C.D. 1/1/2014 Use: TAXIWAY Rank: P Length: 325.00 (Ft) Width: 70.00 (Ft) True Area: 23819.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2014	NU-IN	New Construction - Initial	0.00	4.00	<input checked="" type="checkbox"/>	4" P-401, 6" P-211, COMPACTED SU

Network: LEESBURG INTERN Branch: TW K TAXIWAY K Section: 715 Surface: AC  
 L.C.D. 1/1/1986 Use: TAXIWAY Rank: P Length: 100.00 (Ft) Width: 35.00 (Ft) True Area: 4634.000001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1986	NC-AC	New Construction - AC	0.00	1.50	<input checked="" type="checkbox"/>	1986: 1.5" AC ON 8" LIME ROCK. S



**Summary:**

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	7	502,116.00	0.21	0.52
Complete Reconstruction - AC	2	356,704.00	1.37	0.12
MILL and OVERLAY	4	173,912.00	0.88	0.89
New Construction - AC	12	1,132,909.00	0.23	0.51
New Construction - Initial	22	951,031.00	1.41	2.67
Overlay	2	488,410.00	0.00	0.00
Overlay - AC Structural	7	1,433,274.00	1.43	2.06
Patching - AC	1	10,698.00	0.00	0.00
Surface Treatment - Seal Coat	2	334,022.00	0.00	0.00

10/3/2019

**Branch Condition Report**

Page 1 of 2

*Pavement Database: FDOT*

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
AP N	7	2,065.00	138.43	484,398.00	APRON	59.29	29.24	58.98
AP RFUEL	1	200.00	100.00	25,329.00	APRON	26.00	0.00	26.00
AP RU	3	825.00	145.00	109,862.00	APRON	91.67	6.24	89.99
AP T-HANG	1	1,500.00	25.00	45,127.00	APRON	69.00	0.00	69.00
RW 13-31	6	12,600.00	66.67	630,000.00	RUNWAY	78.83	11.20	68.08
RW 3-21	2	8,757.00	50.00	487,038.00	RUNWAY	87.50	0.50	87.50
TL A	1	750.00	40.00	45,971.00	TAXILANE	100.00	0.00	100.00
TL APRON	1	300.00	35.00	10,698.00	TAXILANE	35.00	0.00	35.00
TL T-HANG	2	600.00	30.00	35,144.00	TAXILANE	74.50	5.50	75.44
TW A	4	8,050.00	50.00	334,552.00	TAXIWAY	86.25	5.54	85.33
TW A1	1	80.00	50.00	4,409.00	TAXIWAY	59.00	0.00	59.00
TW A2	1	80.00	40.00	4,287.00	TAXIWAY	65.00	0.00	65.00
TW A3	1	80.00	30.00	4,673.00	TAXIWAY	63.00	0.00	63.00
TW B	2	1,131.00	45.00	81,104.00	TAXIWAY	74.00	9.00	81.99
TW C	1	320.00	80.00	25,917.00	TAXIWAY	83.00	0.00	83.00
TW D	1	450.00	55.00	22,621.00	TAXIWAY	57.00	0.00	57.00
TW E	1	200.00	45.00	8,617.00	TAXIWAY	90.00	0.00	90.00
TW J	1	430.00	40.00	26,600.00	TAXIWAY	90.00	0.00	90.00
TW K	4	5,175.00	50.00	199,709.00	TAXIWAY	76.00	12.75	80.18

**10/3/2019****Branch Condition Report****Page 2 of 2***Pavement Database: FDOT*

<b>Use Category</b>	<b>Number of Sections</b>	<b>Total Area (SqFt)</b>	<b>Arithmetic Average PCI</b>	<b>Average STD PCI</b>	<b>Weighted Average PCI</b>
APRON	12	664,716.00	65.42	28.86	63.53
RUNWAY	8	1,117,038.00	81.00	10.40	76.55
TAXILANE	4	91,813.00	71.00	23.57	83.03
TAXIWAY	17	712,489.00	76.71	12.69	82.32
ALL	41	2,586,056.00	73.68	20.51	75.02

Pavement Database: FDOT

NetworkId: LEE

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
AP N	4105	1/1/1989	AC	APRON	P	0	323,324.00	1/30/2019	30	53
AP N	4120	12/25/2000	PCC	APRON	P	0	6,600.00	1/30/2019	19	59
AP N	4125	1/1/2005	AC	APRON	P	0	59,690.00	1/30/2019	14	66
AP N	4130	1/1/2008	PCC	APRON	P	0	56,108.00	1/30/2019	11	94
AP N	4135	1/1/1942	PCC	APRON	P	0	18,579.00	1/30/2019	77	31
AP N	4140	1/1/1942	PCC	APRON	P	0	8,600.00	1/30/2019	77	12
AP N	4145	7/1/2016	AC	APRON	P	0	11,497.00	7/1/2016	0	100
AP RFUEL	4505	1/1/1989	AC	APRON	P	0	25,329.00	1/30/2019	30	26
AP RU	5205	1/1/2008	AC	APRON	P	0	36,679.00	1/30/2019	11	85
AP RU	5305	1/1/2009	AC	APRON	P	0	54,952.00	1/30/2019	10	90
AP RU	5405	1/1/2019	AC	APRON	P	0	18,231.00	1/1/2019	0	100
AP T-HANG	4205	1/1/2003	AC	APRON	P	0	45,127.00	1/30/2019	16	69
RW 13-31	6105	1/1/2000	AAC	RUNWAY	P	0	250,000.00	1/30/2019	19	61
RW 13-31	6110	1/1/2000	AAC	RUNWAY	P	0	250,000.00	1/30/2019	19	66
RW 13-31	6115	12/12/2009	AC	RUNWAY	P	0	15,000.00	1/30/2019	10	86
RW 13-31	6120	12/12/2009	AC	RUNWAY	P	0	15,000.00	1/30/2019	10	90
RW 13-31	6125	1/1/2009	AC	RUNWAY	P	0	50,000.00	1/30/2019	10	82
RW 13-31	6130	1/1/2009	AC	RUNWAY	P	0	50,000.00	1/30/2019	10	88
RW 3-21	6205	1/1/2011	AAC	RUNWAY	P	0	242,833.00	1/30/2019	8	87
RW 3-21	6210	1/1/2011	AAC	RUNWAY	P	0	244,205.00	1/30/2019	8	88
TL A	150	1/1/2019	AC	TAXILANE	P	0	45,971.00	1/1/2019	0	100
TL APRON	4305	1/1/1982	AC	TAXILANE	P	0	10,698.00	1/30/2019	37	35
TL T-HANG	4110	12/25/2000	AC	TAXILANE	P	0	14,559.00	1/30/2019	19	69
TL T-HANG	4115	12/25/2000	AC	TAXILANE	P	0	20,585.00	1/30/2019	19	80
TW A	100	1/1/2009	AC	TAXIWAY	P	0	76,252.00	1/30/2019	10	85
TW A	105	1/1/2014	AC	TAXIWAY	P	0	82,235.00	1/30/2019	5	93
TW A	110	1/1/2000	AAC	TAXIWAY	P	0	113,871.00	1/30/2019	19	78
TW A	115	1/1/2009	AC	TAXIWAY	P	0	62,194.00	1/30/2019	10	89
TW A1	120	1/1/1989	AC	TAXIWAY	P	0	4,409.00	1/30/2019	30	59
TW A2	130	1/1/1989	AC	TAXIWAY	P	0	4,287.00	1/30/2019	30	65
TW A3	140	1/1/1989	AC	TAXIWAY	P	0	4,673.00	1/30/2019	30	63
TW B	200	1/1/2011	AAC	TAXIWAY	P	0	76,570.00	1/30/2019	8	83
TW B	205	1/1/2002	AAC	TAXIWAY	P	0	4,534.00	1/30/2019	17	65
TW C	300	1/1/2009	AC	TAXIWAY	P	0	25,917.00	1/30/2019	10	83
TW D	400	1/1/2002	AC	TAXIWAY	P	0	22,621.00	1/30/2019	17	57
TW E	500	1/1/2011	AC	TAXIWAY	P	0	8,617.00	1/30/2019	8	90
TW J	600	1/1/2011	AAC	TAXIWAY	P	0	26,600.00	1/30/2019	8	90
TW K	700	1/1/2011	AAC	TAXIWAY	P	0	138,244.00	1/30/2019	8	82
TW K	705	1/1/2004	AC	TAXIWAY	P	0	33,012.00	1/30/2019	15	65
TW K	710	1/1/2014	AC	TAXIWAY	P	0	23,819.00	1/30/2019	5	94
TW K	715	1/1/1986	AC	TAXIWAY	P	0	4,634.00	1/30/2019	33	63

*Pavement Database: FDOT*

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
00-02		75,699.00	3	100.00	0.00	100.00
03-05	5	106,054.00	2	93.50	0.50	93.22
06-10	9	1,086,384.00	14	86.64	3.01	86.28
11-15	13	185,489.00	4	77.50	12.42	78.05
16-20	18	727,897.00	9	67.11	7.48	66.45
26-30	30	362,022.00	5	53.20	14.20	51.46
31-35	33	4,634.00	1	63.00	0.00	63.00
36-40	37	10,698.00	1	35.00	0.00	35.00
50+	77	27,179.00	2	21.50	9.50	24.99
ALL	18	2,586,056.00	41	73.68	20.51	75.02



# Appendix B

Airfield Pavement Localized Maintenance and Repair and  
Major Rehabilitation



Table B-1 Localized Maintenance and Repair Needs based on Current Condition

Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
LEE	AP N	4105	41	ALLIGATOR CR	Medium	773.06	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	889.1	SqFt	\$ 6.00	\$ 5,340.00
LEE	AP N	4105	43	BLOCK CR	Medium	12278.18	SqFt	3.8%	FDOT - CRACK SEALING - AC	3742.5	Ft	\$ 3.00	\$ 11,230.00
LEE	AP N	4105	48	L & T CR	Medium	1218.73	Ft	0.4%	FDOT - CRACK SEALING - AC	1218.8	Ft	\$ 3.00	\$ 3,660.00
LEE	AP N	4105	49	OIL SPILLAGE	N/A	109.15	SqFt	0.0%	FDOT - PATCHING - AC PARTIAL DEPTH	155	SqFt	\$ 3.00	\$ 470.00
LEE	AP N	4105	52	RAVELING	Low	171257.15	SqFt	53.0%	FDOT - SURFACE SEAL	171257	SqFt	\$ 0.55	\$ 94,200.00
LEE	AP N	4105	52	RAVELING	Medium	2273.77	SqFt	0.7%	FDOT - PATCHING - AC PARTIAL DEPTH	2273.3	SqFt	\$ 3.00	\$ 6,830.00
LEE	AP N	4120	62	CORNER BREAK	Low	10.44	Slabs	11.1%	FDOT - CRACK SEALING - PCC	85.6	Ft	\$ 4.25	\$ 370.00
LEE	AP N	4120	65	JT SEAL DMG	High	94	Slabs	100.0%	FDOT - JOINT SEAL - PCC	1227	Ft	\$ 2.75	\$ 3,380.00
LEE	AP N	4120	75	CORNER SPALL	Low	5.22	Slabs	5.6%	FDOT - CRACK SEALING - PCC	8.5	Ft	\$ 4.25	\$ 40.00
LEE	AP N	4120	75	CORNER SPALL	Medium	5.22	Slabs	5.6%	FDOT - PATCHING - PCC PARTIAL DEPTH	14	SqFt	\$ 72.00	\$ 1,020.00
LEE	AP N	4125	49	OIL SPILLAGE	N/A	463.92	SqFt	0.8%	FDOT - PATCHING - AC PARTIAL DEPTH	554.3	SqFt	\$ 3.00	\$ 1,670.00
LEE	AP N	4125	52	RAVELING	Low	42346.73	SqFt	70.9%	FDOT - SURFACE SEAL	42346.3	SqFt	\$ 0.55	\$ 23,300.00
LEE	AP N	4130	62	CORNER BREAK	Low	3.68	Slabs	2.6%	FDOT - CRACK SEALING - PCC	30.2	Ft	\$ 4.25	\$ 130.00
LEE	AP N	4130	75	CORNER SPALL	Low	3.68	Slabs	2.6%	FDOT - CRACK SEALING - PCC	5.9	Ft	\$ 4.25	\$ 30.00
LEE	AP N	4135	63	LINEAR CR	Medium	18.5	Slabs	25.0%	FDOT - CRACK SEALING - PCC	397.6	Ft	\$ 4.25	\$ 1,700.00
LEE	AP N	4135	65	JT SEAL DMG	High	74	Slabs	100.0%	FDOT - JOINT SEAL - PCC	1192.6	Ft	\$ 2.75	\$ 3,280.00
LEE	AP N	4135	74	JOINT SPALL	Low	12.33	Slabs	16.7%	FDOT - CRACK SEALING - PCC	20.3	Ft	\$ 4.25	\$ 90.00
LEE	AP N	4135	74	JOINT SPALL	Medium	6.17	Slabs	8.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	39.8	SqFt	\$ 72.00	\$ 2,870.00
LEE	AP N	4135	75	CORNER SPALL	Low	12.33	Slabs	16.7%	FDOT - CRACK SEALING - PCC	20.3	Ft	\$ 4.25	\$ 90.00
LEE	AP N	4135	75	CORNER SPALL	Medium	6.17	Slabs	8.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	16.2	SqFt	\$ 72.00	\$ 1,200.00
LEE	AP N	4140	65	JT SEAL DMG	High	14	Slabs	100.0%	FDOT - JOINT SEAL - PCC	790	Ft	\$ 2.75	\$ 2,180.00
LEE	AP N	4140	72	SHAT. SLAB	Medium	14	Slabs	100.0%	FDOT - SLAB REPLACEMENT - PCC	8750	SqFt	\$ 30.00	\$ 262,500.00
LEE	AP RFUEL	4505	45	DEPRESSION	Low	322.38	SqFt	1.3%	FDOT - PATCHING - AC FULL DEPTH	398.3	SqFt	\$ 6.00	\$ 2,400.00
LEE	AP RFUEL	4505	50	PATCHING	Medium	1137.53	SqFt	4.5%	FDOT - PATCHING - AC FULL DEPTH	1277.7	SqFt	\$ 6.00	\$ 7,670.00
LEE	AP RFUEL	4505	50	PATCHING	High	1703.93	SqFt	6.7%	FDOT - PATCHING - AC FULL DEPTH	1874	SqFt	\$ 6.00	\$ 11,250.00
LEE	AP RFUEL	4505	52	RAVELING	Low	16123.05	SqFt	63.7%	FDOT - SURFACE SEAL	16123.3	SqFt	\$ 0.55	\$ 8,870.00
LEE	AP RFUEL	4505	52	RAVELING	Medium	3398.7	SqFt	13.4%	FDOT - PATCHING - AC PARTIAL DEPTH	3398.2	SqFt	\$ 3.00	\$ 10,200.00
LEE	AP RFUEL	4505	52	RAVELING	High	110.55	SqFt	0.4%	FDOT - PATCHING - AC PARTIAL DEPTH	110.9	SqFt	\$ 3.00	\$ 340.00
LEE	AP RU	5205	46	JET BLAST	N/A	136.92	SqFt	0.4%	FDOT - PATCHING - AC PARTIAL DEPTH	136.7	SqFt	\$ 3.00	\$ 420.00
LEE	AP T-HANG	4205	49	OIL SPILLAGE	N/A	45.1	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	76.4	SqFt	\$ 3.00	\$ 230.00
LEE	AP T-HANG	4205	52	RAVELING	Low	45127.05	SqFt	100.0%	FDOT - SURFACE SEAL	45126.6	SqFt	\$ 0.55	\$ 24,830.00
LEE	RW 13-31	6105	48	L & T CR	Medium	2166.67	Ft	0.9%	FDOT - CRACK SEALING - AC	2166.7	Ft	\$ 3.00	\$ 6,500.00
LEE	RW 13-31	6105	52	RAVELING	Low	2666.65	SqFt	1.1%	FDOT - SURFACE SEAL	2666.2	SqFt	\$ 0.55	\$ 1,470.00
LEE	RW 13-31	6105	52	RAVELING	Medium	3333.37	SqFt	1.3%	FDOT - PATCHING - AC PARTIAL DEPTH	3333.6	SqFt	\$ 3.00	\$ 10,000.00
LEE	RW 13-31	6105	57	WEATHERING	Medium	20833.33	SqFt	8.3%	FDOT - SURFACE SEAL	20833.6	SqFt	\$ 0.55	\$ 11,460.00
LEE	RW 13-31	6110	48	L & T CR	Medium	1762.5	Ft	0.7%	FDOT - CRACK SEALING - AC	1762.5	Ft	\$ 3.00	\$ 5,290.00
LEE	RW 13-31	6110	52	RAVELING	Low	1562.49	SqFt	0.6%	FDOT - SURFACE SEAL	1562.9	SqFt	\$ 0.55	\$ 860.00
LEE	RW 13-31	6110	52	RAVELING	Medium	35937.47	SqFt	14.4%	FDOT - PATCHING - AC PARTIAL DEPTH	35937.5	SqFt	\$ 3.00	\$ 107,820.00





Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
LEE	RW 13-31	6110	57	WEATHERING	Medium	10000	SqFt	4.0%	FDOT - SURFACE SEAL	9999.7	SqFt	\$ 0.55	\$ 5,510.00
LEE	RW 13-31	6115	52	RAVELING	Low	210	SqFt	1.4%	FDOT - SURFACE SEAL	209.9	SqFt	\$ 0.55	\$ 120.00
LEE	RW 13-31	6125	52	RAVELING	Low	4526.65	SqFt	9.1%	FDOT - SURFACE SEAL	4526.2	SqFt	\$ 0.55	\$ 2,490.00
LEE	RW 13-31	6130	52	RAVELING	Low	1160.03	SqFt	2.3%	FDOT - SURFACE SEAL	1160.4	SqFt	\$ 0.55	\$ 640.00
LEE	RW 3-21	6205	52	RAVELING	Low	1517.71	SqFt	0.6%	FDOT - SURFACE SEAL	1517.7	SqFt	\$ 0.55	\$ 840.00
LEE	RW 3-21	6210	52	RAVELING	Low	21429.01	SqFt	8.8%	FDOT - SURFACE SEAL	21428.8	SqFt	\$ 0.55	\$ 11,790.00
LEE	TL APRON	4305	41	ALLIGATOR CR	Low	73.63	SqFt	0.7%	FDOT - PATCHING - AC FULL DEPTH	111.9	SqFt	\$ 6.00	\$ 680.00
LEE	TL APRON	4305	45	DEPRESSION	Low	86.54	SqFt	0.8%	FDOT - PATCHING - AC FULL DEPTH	128.1	SqFt	\$ 6.00	\$ 770.00
LEE	TL APRON	4305	45	DEPRESSION	High	43.27	SqFt	0.4%	FDOT - PATCHING - AC FULL DEPTH	74.3	SqFt	\$ 6.00	\$ 450.00
LEE	TL APRON	4305	48	L & T CR	Medium	116.86	Ft	1.1%	FDOT - CRACK SEALING - AC	116.8	Ft	\$ 3.00	\$ 360.00
LEE	TL APRON	4305	52	RAVELING	Medium	17.33	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	17.2	SqFt	\$ 3.00	\$ 60.00
LEE	TL APRON	4305	53	RUTTING	Medium	194.83	SqFt	1.8%	FDOT - PATCHING - AC FULL DEPTH	194.8	SqFt	\$ 6.00	\$ 1,170.00
LEE	TL T-HANG	4110	52	RAVELING	Low	14559.05	SqFt	100.0%	FDOT - SURFACE SEAL	14559.3	SqFt	\$ 0.55	\$ 8,010.00
LEE	TL T-HANG	4115	48	L & T CR	Medium	59.61	Ft	0.3%	FDOT - CRACK SEALING - AC	59.7	Ft	\$ 3.00	\$ 180.00
LEE	TL T-HANG	4115	52	RAVELING	Low	413.33	SqFt	2.0%	FDOT - SURFACE SEAL	413.3	SqFt	\$ 0.55	\$ 230.00
LEE	TW A	110	52	RAVELING	Low	11475.19	SqFt	10.1%	FDOT - SURFACE SEAL	11475.4	SqFt	\$ 0.55	\$ 6,320.00
LEE	TW A	110	57	WEATHERING	Medium	1850.85	SqFt	1.6%	FDOT - SURFACE SEAL	1850.3	SqFt	\$ 0.55	\$ 1,020.00
LEE	TW A1	120	52	RAVELING	Low	4399.96	SqFt	99.8%	FDOT - SURFACE SEAL	4400.3	SqFt	\$ 0.55	\$ 2,430.00
LEE	TW A1	120	52	RAVELING	Medium	9.04	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	8.6	SqFt	\$ 3.00	\$ 30.00
LEE	TW A2	130	52	RAVELING	Low	4281.99	SqFt	99.9%	FDOT - SURFACE SEAL	4281.9	SqFt	\$ 0.55	\$ 2,360.00
LEE	TW A2	130	52	RAVELING	Medium	4.95	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	5.4	SqFt	\$ 3.00	\$ 20.00
LEE	TW A3	140	48	L & T CR	Medium	4.99	Ft	0.1%	FDOT - CRACK SEALING - AC	4.9	Ft	\$ 3.00	\$ 20.00
LEE	TW A3	140	52	RAVELING	Low	2400.03	SqFt	51.4%	FDOT - SURFACE SEAL	2400.4	SqFt	\$ 0.55	\$ 1,330.00
LEE	TW B	205	52	RAVELING	Low	4533.97	SqFt	100.0%	FDOT - SURFACE SEAL	4533.8	SqFt	\$ 0.55	\$ 2,500.00
LEE	TW C	300	52	RAVELING	Low	1333.97	SqFt	5.2%	FDOT - SURFACE SEAL	1333.7	SqFt	\$ 0.55	\$ 740.00
LEE	TW D	400	57	WEATHERING	Medium	452.41	SqFt	2.0%	FDOT - SURFACE SEAL	452.1	SqFt	\$ 0.55	\$ 250.00
LEE	TW K	700	48	L & T CR	Medium	44.59	Ft	0.0%	FDOT - CRACK SEALING - AC	44.6	Ft	\$ 3.00	\$ 140.00
LEE	TW K	700	57	WEATHERING	Medium	2229.74	SqFt	1.6%	FDOT - SURFACE SEAL	2229.2	SqFt	\$ 0.55	\$ 1,230.00
LEE	TW K	705	52	RAVELING	Low	32996.77	SqFt	100.0%	FDOT - SURFACE SEAL	32996.8	SqFt	\$ 0.55	\$ 18,150.00
LEE	TW K	705	52	RAVELING	Medium	15.18	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	15.1	SqFt	\$ 3.00	\$ 50.00
LEE	TW K	715	48	L & T CR	Medium	60.01	Ft	1.3%	FDOT - CRACK SEALING - AC	60	Ft	\$ 3.00	\$ 180.00
LEE	TW K	715	52	RAVELING	Low	3706.98	SqFt	80.0%	FDOT - SURFACE SEAL	3707.1	SqFt	\$ 0.55	\$ 2,040.00



Table B-2 10-Year Major Rehabilitation Planning Needs at Section Level

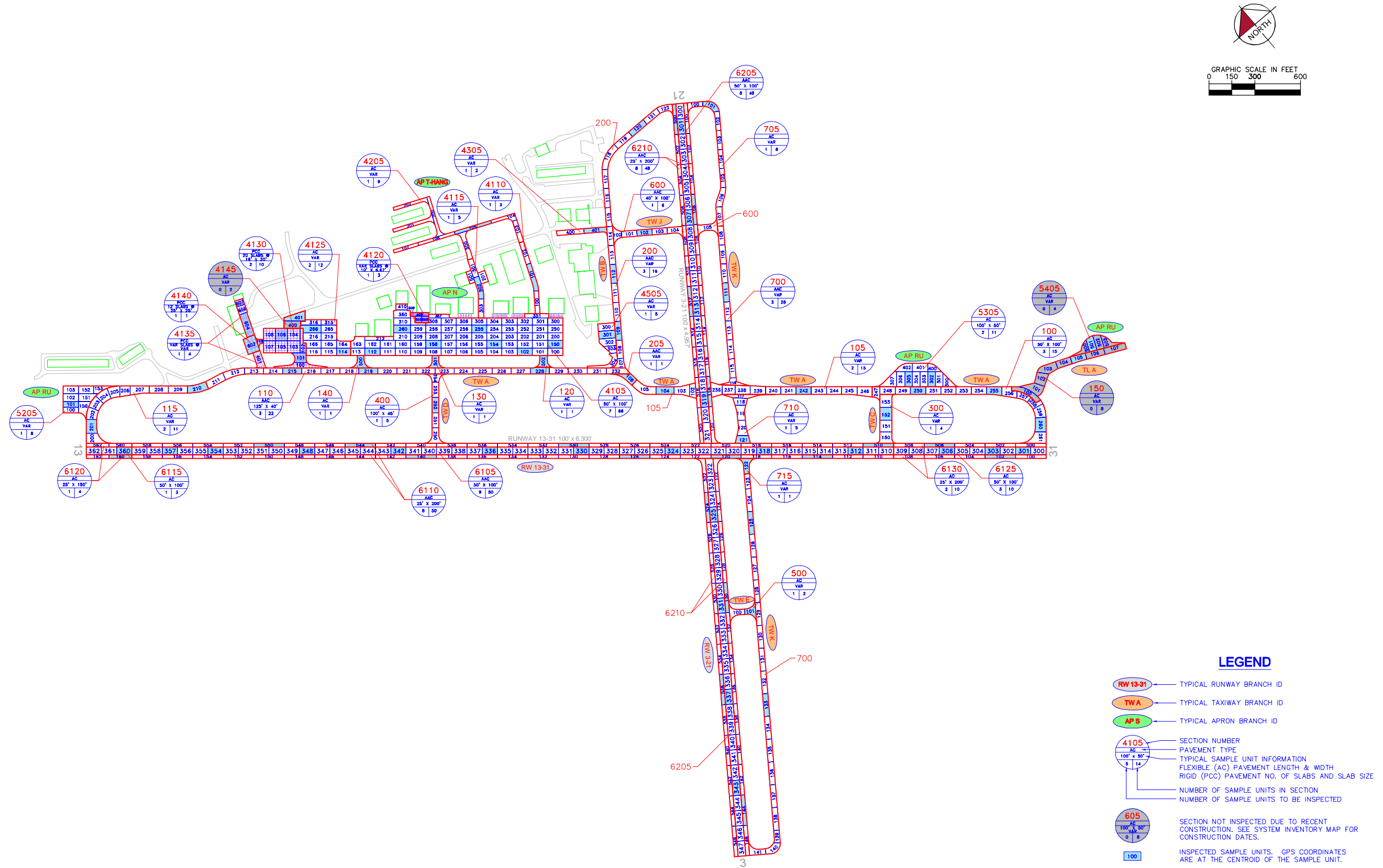
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2020	LEE	AP N	4105	AC	323,324	51	AC Restoration	\$ 2,264,000.00
2020	LEE	AP N	4120	PCC	6,600	57	PCC Restoration	\$ 67,000.00
2020	LEE	AP N	4125	AC	59,690	64	AC Restoration	\$ 418,000.00
2020	LEE	AP N	4135	PCC	18,579	30	PCC Reconstruction	\$ 279,000.00
2020	LEE	AP N	4140	PCC	8,600	10	PCC Reconstruction	\$ 130,000.00
2020	LEE	AP RFUEL	4505	AC	25,329	24	AC Reconstruction	\$ 228,000.00
2020	LEE	RW 13-31	6105	AAC	250,000	60	AC Restoration	\$ 1,751,000.00
2020	LEE	RW 13-31	6110	AAC	250,000	64	AC Restoration	\$ 1,751,000.00
2020	LEE	TL APRON	4305	AC	10,698	33	AC Reconstruction	\$ 97,000.00
2020	LEE	TW A1	120	AC	4,409	57	AC Restoration	\$ 31,000.00
2020	LEE	TW A2	130	AC	4,287	64	AC Restoration	\$ 31,000.00
2020	LEE	TW A3	140	AC	4,673	62	AC Restoration	\$ 33,000.00
2020	LEE	TW B	205	AAC	4,534	63	AC Restoration	\$ 32,000.00
2020	LEE	TW D	400	AC	22,621	55	AC Restoration	\$ 159,000.00
2020	LEE	TW K	705	AC	33,012	64	AC Restoration	\$ 232,000.00
2020	LEE	TW K	715	AC	4,634	62	AC Restoration	\$ 33,000.00
2022	LEE	AP T-HANG	4205	AC	45,127	64	AC Restoration	\$ 316,000.00
2024	LEE	TL T-HANG	4110	AC	14,559	64	AC Restoration	\$ 102,000.00

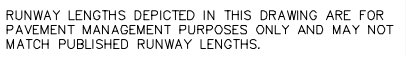
# Appendix C

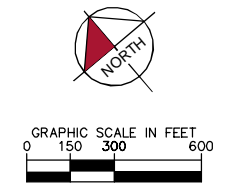
## Technical Exhibits











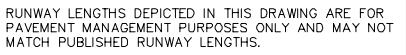
**LEGEND**

RW 13-31 — TYPICAL RUNWAY BRANCH ID  
 TW A — TYPICAL TAXIWAY BRANCH ID  
 AP S — TYPICAL APRON BRANCH ID

<span style="display:inline-block; width:15px; height:15px; background-color:darkgreen; border:1px solid black;"></span>	PCI 86-100 GOOD
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border:1px solid black;"></span>	PCI 71-85 SATISFACTORY
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span>	PCI 56-70 FAIR
<span style="display:inline-block; width:15px; height:15px; background-color:orange; border:1px solid black;"></span>	PCI 41-55 POOR
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span>	PCI 26-40 VERY POOR
<span style="display:inline-block; width:15px; height:15px; background-color:darkred; border:1px solid black;"></span>	PCI 11-25 SERIOUS
<span style="display:inline-block; width:15px; height:15px; background-color:gray; border:1px solid black;"></span>	PCI 0-10 FAILED

\*SECTION NO.\*  
 \*PCI NO.\*

RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.





# Appendix D

## Inspection Photograph Documentation





RW 3-21, Section 6205, Sample Unit 331 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (56) Swelling, and Low Severity (57) Weathering



RW 3-21, Section 6210, Sample Unit 500 - (42) Bleeding, Low Severity (48) Longitudinal & Transverse Cracking, and Low Severity (57) Weathering





RW 13-31, Section 6105, Sample Unit 354 - (42) Bleeding, Low Severity (48) Longitudinal & Transverse Cracking, and Low Severity (57) Weathering



RW 13-31, Section 6110, Sample Unit 120 - (42) Bleeding, Low Severity (48) Longitudinal & Transverse Cracking, Medium Severity (48) Longitudinal & Transverse Cracking, and Medium Severity (52) Raveling





TW A, Section 110, Sample Unit 228 - (42) Bleeding, Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Low Severity (57) Weathering



TW B, Section 205, Sample Unit 106 - (42) Bleeding, Low Severity (48) Longitudinal & Transverse Cracking, and Low Severity (52) Raveling





TW K, Section 715, Sample Unit 122 - Low Severity (48) Longitudinal & Transverse Cracking, Medium Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Low Severity (57) Weathering



AP N, Section 4105, Sample Unit 158 - Medium Severity (41) Alligator Cracking, Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Low Severity (57) Weathering





AP N, Section 4140, Sample Unit 602 - Medium Severity (72) Shattered Slab



AP RFUEL, Section 4505, Sample Unit 301 - Low Severity (43) Block Cracking, Low Severity (45) Depression, Medium Severity (50) Patching, High Severity (50) Patching, Low Severity (52) Raveling, and Medium Severity (52) Raveling



# Appendix E

## Inspection Distress Details

# Re-Inspection Report

FDOT

Generated Date 10/3/2019

Page 1 of 41

Network:	LEE	Name:	LEESBURG INTERNATIONAL AIRPORT						
Branch:	AP N	Name:	NORTH APRON	Use:	APRON	Area:	484,398 SqFt		
Section:	4105	of	7	From:	-	To:	-	Last Const.:	1/1/1989
Surface:	AC	Family:	C9N59-GA-AP-AC	Zone:		Category:		Rank:	P
Area:	323,324 SqFt	Length:	804 Ft	Width:	200 Ft				
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0	Lanes:	0		
Section Comments:									
Work Date:	1/1/1989	Work Type:	BUILT	Code:	IMPORTED	Is Major M&R:	True		
Work Date:	1/1/2007	Work Type:	Surface Treatment - Seal Coat	Code:	ST-SC	Is Major M&R:	False		
Last Insp. Date:	1/30/2019	TotalSamples:	66	Surveyed:	7				
Conditions:	PCI: 53								
Inspection Comments:									
Sample Number:	102	Type:	R	Area:	5000.00 SqFt	PCI:	50		
Sample Comments:									
43	BLOCK CR	M	250.00	SqFt					
43	BLOCK CR	L	3000.00	SqFt					
57	WEATHERING	L	2000.00	SqFt					
52	RAVELING	L	3000.00	SqFt					
48	L & T CR	L	78.00	Ft					
Sample Number:	112	Type:	R	Area:	5000.00 SqFt	PCI:	64		
Sample Comments:									
49	OIL SPILLAGE	N	12.00	SqFt					
48	L & T CR	L	561.00	Ft					
52	RAVELING	L	5000.00	SqFt					
Sample Number:	150	Type:	R	Area:	5000.00 SqFt	PCI:	45		
Sample Comments:									
52	RAVELING	M	250.00	SqFt					
52	RAVELING	L	2250.00	SqFt					
43	BLOCK CR	M	1000.00	SqFt					
43	BLOCK CR	L	4000.00	SqFt					
Sample Number:	154	Type:	R	Area:	5000.00 SqFt	PCI:	49		
Sample Comments:									
52	RAVELING	L	1500.00	SqFt					
43	BLOCK CR	M	100.00	SqFt					
57	WEATHERING	L	3500.00	SqFt					
48	L & T CR	L	99.00	Ft					
43	BLOCK CR	L	3400.00	SqFt					
Sample Number:	158	Type:	R	Area:	5000.00 SqFt	PCI:	45		
Sample Comments:									
48	L & T CR	M	34.00	Ft					
41	ALLIGATOR CR	M	85.00	SqFt					
48	L & T CR	L	591.00	Ft					
57	WEATHERING	L	4000.00	SqFt					
52	RAVELING	L	1000.00	SqFt					
Sample Number:	255	Type:	R	Area:	5000.00 SqFt	PCI:	56		
Sample Comments:									
57	WEATHERING	L	2250.00	SqFt					
48	L & T CR	L	233.00	Ft					
52	RAVELING	L	2750.00	SqFt					
43	BLOCK CR	L	2750.00	SqFt					

Sample Number: 260		Type:	R	Area:	5550.00 SqFt	PCI:	61
Sample Comments:							
48	L & T CR		L	538.00	Ft		
57	WEATHERING		L	2220.00	SqFt		
52	RAVELING		L	3330.00	SqFt		
48	L & T CR		M	100.00	Ft		

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	AP N	Name:	NORTH APRON		Use:	APRON	Area:	484,398 SqFt			
Section:	4120	of	7	From:	-	To:	-	Last Const.:	12/25/2000		
Surface:	PCC	Family:	C9N59-GA-AP-PCC		Zone:		Category:		Rank:	P	
Area:	6,600 SqFt	Length:	200 Ft		Width:	30 Ft					
Slabs:	94	Slab Length:	7 Ft		Slab Width:	10 Ft		Joint Length:	1,227 Ft		
Shoulder:		Street Type:		Grade:	0		Lanes:	0			
Section Comments:											
Work Date:	12/25/2000		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	3		Surveyed:	1				
Conditions:	PCI:	59									
Inspection Comments:											
Sample Number:	409	Type:	R	Area:	18.00 Slabs		PCI:	59			
Sample Comments:											
75	CORNER SPALL		M	1.00	Slabs						
62	CORNER BREAK		L	2.00	Slabs						
73	SHRINKAGE CR		N	11.00	Slabs						
65	JT SEAL DMG		H	18.00	Slabs						
75	CORNER SPALL		L	1.00	Slabs						
63	LINEAR CR		L	7.00	Slabs						



Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	AP N		Name:	NORTH APRON		Use:	APRON	Area:	484,398 SqFt		
Section:	4125	of 7	From:	-			To:	-		Last Const.:	1/1/2005
Surface:	AC	Family:	C9N59-GA-AP-AC		Zone:		Category:		Rank:	P	
Area:	59,690 SqFt		Length:	293 Ft		Width:	235 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:		Grade:		0		Lanes:	0			
Section Comments:											
Work Date:	1/1/2005		Work Type:	New Construction - AC			Code:	NC-AC		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	12		Surveyed:	2				
Conditions:	PCI:	66									
Inspection Comments:											
Sample Number:	114	Type:	R	Area:	4650.00 SqFt		PCI:	65			
Sample Comments:											
52	RAVELING	L	4650.00		SqFt						
48	L & T CR	L	54.00		Ft						
49	OIL SPILLAGE	N	60.00		SqFt						
Sample Number:	266	Type:	R	Area:	6415.00 SqFt		PCI:	67			
Sample Comments:											
57	WEATHERING	L	3215.00		SqFt						
48	L & T CR	L	66.00		Ft						
52	RAVELING	L	3200.00		SqFt						
49	OIL SPILLAGE	N	26.00		SqFt						

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT								
Branch:	AP N	Name:	NORTH APRON		Use:	APRON	Area:	484,398 SqFt				
Section:	4130	of 7	From:	-		To:	-		Last Const.:	1/1/2008		
Surface:	PCC	Family:	C9N59-GA-AP-PCC		Zone:			Category:	Rank: P			
Area:	56,108 SqFt		Length:	304 Ft		Width:	160 Ft					
Slabs:	140	Slab Length:	20 Ft		Slab Width:	16 Ft		Joint Length:	5,008 Ft			
Shoulder:	Street Type:		Grade:		0		Lanes:	0				
Section Comments:												
Work Date:	1/1/2008		Work Type:			New Construction - Initial		Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	10		Surveyed:	2					
Conditions:	PCI: 94											
Inspection Comments:												
Sample Number:	101	Type:	R	Area:	18.00 Slabs		PCI:	92				
Sample Comments:												
75	CORNER SPALL		L	1.00 Slabs								
73	SHRINKAGE CR		N	1.00 Slabs								
62	CORNER BREAK		L	1.00 Slabs								
Sample Number:	106	Type:	R	Area:	20.00 Slabs		PCI:	96				
Sample Comments:												
73	SHRINKAGE CR		N	5.00 Slabs								

<b>Network:</b>	LEE	<b>Name:</b>	LEESBURG INTERNATIONAL AIRPORT			
<b>Branch:</b>	AP N	<b>Name:</b>	NORTH APRON	<b>Use:</b>	APRON	<b>Area:</b> 484,398 SqFt
<b>Section:</b>	4135	of 7	<b>From:</b>	-	<b>To:</b>	- <b>Last Const.:</b> 1/1/1942
<b>Surface:</b>	PCC	<b>Family:</b>	C9N59-GA-AP-PCC	<b>Zone:</b>	<b>Category:</b>	<b>Rank:</b> P
<b>Area:</b>	18,579 SqFt	<b>Length:</b>	260 Ft	<b>Width:</b>	50 Ft	
<b>Slabs:</b>	74	<b>Slab Length:</b>	12 Ft	<b>Slab Width:</b>	31 Ft	<b>Joint Length:</b> 1,193 Ft
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b> 0
<b>Section Comments:</b>						
<b>Work Date:</b>	1/1/1942	<b>Work Type:</b>	BUILT	<b>Code:</b>	IMPORTED	<b>Is Major M&amp;R:</b> True
<b>Last Insp. Date:</b>	1/30/2019	<b>TotalSamples:</b>	4	<b>Surveyed:</b>	1	
<b>Conditions:</b>	PCI: 31					
<b>Inspection Comments:</b>						
<b>Sample Number:</b>	604	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b> 31
<b>Sample Comments:</b>						
75	CORNER SPALL	M	2.00	Slabs		
75	CORNER SPALL	L	4.00	Slabs		
74	JOINT SPALL	M	2.00	Slabs		
74	JOINT SPALL	L	4.00	Slabs		
63	LINEAR CR	M	6.00	Slabs		
73	SHRINKAGE CR	N	20.00	Slabs		
63	LINEAR CR	L	18.00	Slabs		
65	JT SEAL DMG	H	24.00	Slabs		

Network:	LEE			Name:	LEESBURG INTERNATIONAL AIRPORT				
Branch:	AP N		Name:	NORTH APRON		Use:	APRON	Area:	484,398 SqFt
Section:	4140	of 7		From:	-		To:	-	
Surface:	PCC	Family:	C9N59-GA-AP-PCC		Zone:			Category:	Rank: P
Area:	8,600 SqFt		Length:	66 Ft		Width:	200 Ft		
Slabs:	14	Slab Length:	25 Ft		Slab Width:	25 Ft		Joint Length:	790 Ft
Shoulder:			Street Type:			Grade:	0		Lanes: 0
Section Comments:									
Work Date:	1/1/1942		Work Type:	BUILT			Code:	IMPORTED	
Last Insp. Date:	1/30/2019		TotalSamples:	1		Surveyed:	1		
Conditions:	PCI:	12							
Inspection Comments:									
Sample Number:	602	Type:	R		Area:	12.00 Slabs		PCI:	12
Sample Comments:									
65	JT SEAL DMG		H		12.00 Slabs				
72	SHAT. SLAB		M		12.00 Slabs				



Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT						
Branch:	AP RFUEL		Name:	RE-FUELING APRON		Use:	APRON	Area:	25,329 SqFt	
Section:	4505	of 1	From:	-			To:	-	Last Const.:	1/1/1989
Surface:	AC	Family:	C9N59-GA-AP-AC		Zone:		Category:		Rank:	P
Area:	25,329 SqFt	Length:	200 Ft		Width:	100 Ft				
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:		Street Type:			Grade:	0		Lanes:	0	
Section Comments:										
Work Date:	1/1/1989		Work Type:	New Construction - Initial			Code:	NU-IN	Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	5		Surveyed:	1			
Conditions:	PCI:	26								
Inspection Comments:										
Sample Number:	301	Type:	R	Area:	5500.00 SqFt		PCI:	26		
Sample Comments:										
52	RAVELING	H	24.00	SqFt						
50	PATCHING	H	370.00	SqFt						
43	BLOCK CR	L	4945.00	SqFt						
52	RAVELING	M	738.00	SqFt						
50	PATCHING	L	620.00	SqFt						
45	DEPRESSION	L	70.00	SqFt						
50	PATCHING	M	247.00	SqFt						
52	RAVELING	L	3501.00	SqFt						

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT						
Branch:	AP RU		Name:	RUNUP APRON		Use:	APRON	Area:	109,862 SqFt	
Section:	5205	of 3	From:	-			To:	-	Last Const.:	1/1/2008
Surface:	AC	Family:	C9N59-GA-AP-AC		Zone:		Category:		Rank:	P
Area:	36,679 SqFt	Length:	235 Ft		Width:	175 Ft				
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:		Street Type:			Grade:	0		Lanes:	0	
Section Comments:										
Work Date:	1/1/2008		Work Type:	New Construction - Initial			Code:	NU-IN	Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	8		Surveyed:	1			
Conditions:	PCI:	85								
Inspection Comments:										
Sample Number:	101	Type:	R	Area:	3750.00 SqFt		PCI:	85		
Sample Comments:										
57	WEATHERING		L	3750.00 SqFt						
46	JET BLAST		N	14.00 SqFt						
48	L & T CR		L	74.00 Ft						

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	AP RU		Name:	RUNUP APRON		Use:	APRON	Area:	109,862 SqFt		
Section:	5305	of 3	From:	-			To:	-		Last Const.:	1/1/2009
Surface:	AC	Family:	C9N59-GA-AP-AC		Zone:		Category:		Rank:	P	
Area:	54,952 SqFt		Length:	410 Ft		Width:	160 Ft				
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0			Lanes:	0		
Section Comments:											
Work Date:	1/1/2009		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	11		Surveyed:	2				
Conditions:	PCI:	90									
Inspection Comments:											
Sample Number:	302	Type:	R	Area:	5000.00 SqFt		PCI:	89			
Sample Comments:											
57	WEATHERING	L	5000.00 SqFt								
48	L & T CR	L	54.00 Ft								
Sample Number:	305	Type:	R	Area:	5000.00 SqFt		PCI:	91			
Sample Comments:											
48	L & T CR	L	12.00 Ft								
57	WEATHERING	L	5000.00 SqFt								

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	AP T-HANG		Name:	APRON T-HANGAR		Use:	APRON	Area:	45,127 SqFt		
Section:	4205 of 1		From:	-		To:	-		Last Const.:	1/1/2003	
Surface:	AC		Family:	C9N59-GA-AP-AC		Zone:			Category:	Rank: P	
Area:	45,127 SqFt		Length:	1,500 Ft		Width:	25 Ft				
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Work Date:	1/1/2003		Work Type: New Construction - Initial				Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	9		Surveyed:	1				
Conditions:	PCI: 69										
Inspection Comments:											
Sample Number:	105		Type:	R		Area:	5000.00 SqFt		PCI:	69	
Sample Comments:											
49	OIL SPILLAGE		N	5.00 SqFt							
48	L & T CR		L	8.00 Ft							
52	RAVELING		L	5000.00 SqFt							



Network:	LEE		Name:		LEESBURG INTERNATIONAL AIRPORT										
Branch:	RW 13-31		Name:		RUNWAY 13-31		Use:	RUNWAY	Area:	630,000 SqFt					
Section:	6105		of 6		From:		-		To:		-		Last Const.:	1/1/2000	
Surface:	AAC		Family:		C9N59-GA-RW-AAC-APC		Zone:		Category:		Rank:		P		
Area:	250,000 SqFt		Length:		5,000 Ft		Width:		100 Ft						
Slabs:			Slab Length:		Ft		Slab Width:		Ft		Joint Length:		Ft		
Shoulder:			Street Type:				Grade:		0		Lanes:		0		
Section Comments:															
Work Date:	1/1/1942		Work Type:		New Construction - AC		Code:		NC-AC		Is Major M&R:		True		
Work Date:	1/1/1980		Work Type:		Overlay - AC Structural		Code:		OL-AS		Is Major M&R:		True		
Work Date:	1/1/2000		Work Type:		Overlay - AC Structural		Code:		OL-AS		Is Major M&R:		True		
Last Insp. Date:	1/30/2019		TotalSamples:		50		Surveyed:		9						
Conditions:	PCI: 61														
Inspection Comments:															
Sample Number:	312		Type:	R		Area:		5000.00 SqFt		PCI:		53			
Sample Comments:															
52	RAVELING		M		600.00 SqFt										
48	L & T CR		M		100.00 Ft										
52	RAVELING		L		200.00 SqFt										
48	L & T CR		L		181.00 Ft										
42	BLEEDING		N		330.00 SqFt										
Sample Number:	318		Type:	R		Area:		5000.00 SqFt		PCI:		62			
Sample Comments:															
57	WEATHERING		L		4500.00 SqFt										
48	L & T CR		M		100.00 Ft										
48	L & T CR		L		316.00 Ft										
57	WEATHERING		M		500.00 SqFt										
42	BLEEDING		N		170.00 SqFt										
Sample Number:	324		Type:	R		Area:		5000.00 SqFt		PCI:		59			
Sample Comments:															
57	WEATHERING		M		250.00 SqFt										
48	L & T CR		L		278.00 Ft										
48	L & T CR		M		190.00 Ft										
52	RAVELING		L		280.00 SqFt										
57	WEATHERING		L		4470.00 SqFt										
Sample Number:	330		Type:	R		Area:		5000.00 SqFt		PCI:		80			
Sample Comments:															
57	WEATHERING		L		4500.00 SqFt										
57	WEATHERING		M		500.00 SqFt										
42	BLEEDING		N		15.00 SqFt										
48	L & T CR		L		108.00 Ft										
Sample Number:	336		Type:	R		Area:		5000.00 SqFt		PCI:		74			
Sample Comments:															
57	WEATHERING		M		500.00 SqFt										
57	WEATHERING		L		4500.00 SqFt										
48	L & T CR		L		288.00 Ft										
Sample Number:	342		Type:	R		Area:		5000.00 SqFt		PCI:		72			
Sample Comments:															
42	BLEEDING		N		45.00 SqFt										
57	WEATHERING		L		4500.00 SqFt										
48	L & T CR		L		223.00 Ft										
57	WEATHERING		M		500.00 SqFt										

Sample Number: 348		Type:	R	Area:	5000.00 SqFt	PCI:	50
Sample Comments:							
57	WEATHERING		M	500.00	SqFt		
48	L & T CR		L	175.00	Ft		
42	BLEEDING		N	429.00	SqFt		
57	WEATHERING		L	4500.00	SqFt		
Sample Number: 354		Type:	R	Area:	5000.00 SqFt	PCI:	47
Sample Comments:							
57	WEATHERING		M	500.00	SqFt		
57	WEATHERING		L	4500.00	SqFt		
42	BLEEDING		N	510.00	SqFt		
48	L & T CR		L	206.00	Ft		
Sample Number: 357		Type:	R	Area:	5000.00 SqFt	PCI:	49
Sample Comments:							
48	L & T CR		L	110.00	Ft		
42	BLEEDING		N	458.00	SqFt		
57	WEATHERING		M	500.00	SqFt		
57	WEATHERING		L	4500.00	SqFt		

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT								
Branch:	RW 13-31		Name:	RUNWAY 13-31		Use:	RUNWAY		Area:	630,000 SqFt		
Section:	6110 of 6		From:	-		To:	-		Last Const.:	1/1/2000		
Surface:	AAC		Family:	C9N59-GA-RW-AAC-APC		Zone:			Category:	Rank: P		
Area:	250,000 SqFt		Length:	5,000 Ft		Width:	100 Ft					
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0		
Section Comments:												
Work Date:	1/1/1942		Work Type:	New Construction - AC				Code:	NC-AC		Is Major M&R:	True
Work Date:	1/1/1980		Work Type:	Overlay - AC Structural				Code:	OL-AS		Is Major M&R:	True
Work Date:	1/1/2000		Work Type:	Overlay - AC Structural				Code:	OL-AS		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	50		Surveyed:	8					
Conditions:	PCI: 66											
Inspection Comments:												
Sample Number:	114		Type:	R		Area:	5000.00 SqFt		PCI:	63		
Sample Comments:												
42	BLEEDING		N	48.00 SqFt								
48	L & T CR		M	20.00 Ft								
48	L & T CR		L	379.00 Ft								
57	WEATHERING		L	4900.00 SqFt								
57	WEATHERING		M	100.00 SqFt								
Sample Number:	120		Type:	R		Area:	5000.00 SqFt		PCI:	39		
Sample Comments:												
48	L & T CR		L	125.00 Ft								
52	RAVELING		M	3000.00 SqFt								
42	BLEEDING		N	62.00 SqFt								
48	L & T CR		M	22.00 Ft								
Sample Number:	126		Type:	R		Area:	5000.00 SqFt		PCI:	65		
Sample Comments:												
57	WEATHERING		L	4750.00 SqFt								
57	WEATHERING		M	250.00 SqFt								
48	L & T CR		M	180.00 Ft								
48	L & T CR		L	111.00 Ft								
Sample Number:	140		Type:	R		Area:	5000.00 SqFt		PCI:	75		
Sample Comments:												
57	WEATHERING		L	4750.00 SqFt								
48	L & T CR		L	289.00 Ft								
57	WEATHERING		M	250.00 SqFt								
Sample Number:	510		Type:	R		Area:	5000.00 SqFt		PCI:	49		
Sample Comments:												
48	L & T CR		L	67.00 Ft								
52	RAVELING		M	2750.00 SqFt								
52	RAVELING		L	250.00 SqFt								
Sample Number:	530		Type:	R		Area:	5000.00 SqFt		PCI:	74		
Sample Comments:												
48	L & T CR		M	60.00 Ft								
57	WEATHERING		M	250.00 SqFt								
57	WEATHERING		L	4750.00 SqFt								
48	L & T CR		L	137.00 Ft								
Sample Number:	544		Type:	R		Area:	5000.00 SqFt		PCI:	86		
Sample Comments:												
48	L & T CR		L	65.00 Ft								

57

WEATHERING

M

250.00

SqFt

57

WEATHERING

L

4750.00

SqFt

Sample Number:

550

Type:

R

Area:

5000.00

SqFt

PCI:

77

Sample Comments:

57

WEATHERING

L

4500.00

SqFt

48

L & T CR

L

208.00

Ft

57

WEATHERING

M

500.00

SqFt



Network:	LEE			Name:	LEESBURG INTERNATIONAL AIRPORT						
Branch:	RW 13-31		Name:	RUNWAY 13-31		Use:	RUNWAY	Area:	630,000 SqFt		
Section:	6115 of 6		From:	-			To:	-		Last Const.:	12/12/2009
Surface:	AC		Family:	C9N59-GA-RW-AC		Zone:			Category:	Rank: P	
Area:	15,000 SqFt		Length:	300 Ft		Width:	50 Ft				
Slabs:	Slab Length:		Ft		Slab Width:		Ft		Joint Length:		Ft
Shoulder:	Street Type:				Grade:		0		Lanes:		0
Section Comments:											
Work Date:	12/12/2009		Work Type: New Construction - Initial				Code:	NU-IN		Is Major M&R: True	
Last Insp. Date:	1/30/2019		TotalSamples:	3		Surveyed:		1			
Conditions:	PCI: 86										
Inspection Comments:											
Sample Number:	360		Type:	R		Area:	5000.00 SqFt		PCI:	86	
Sample Comments:											
52	RAVELING		L		70.00 SqFt						
57	WEATHERING		L		4930.00 SqFt						
48	L & T CR		L		77.00 Ft						

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	RW 13-31		Name:	RUNWAY 13-31		Use:	RUNWAY	Area:	630,000 SqFt		
Section:	6120	of 6	From:	-			To:	-		Last Const.:	12/12/2009
Surface:	AC	Family:	C9N59-GA-RW-AC		Zone:		Category:		Rank:	P	
Area:	15,000 SqFt		Length:	300 Ft		Width:	50 Ft				
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0		Lanes:	0			
Section Comments:											
Work Date:	12/12/2009		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	4		Surveyed:	1				
Conditions:	PCI:	90									
Inspection Comments:											
Sample Number:	160	Type:	R	Area:	3750.00 SqFt		PCI:	90			
Sample Comments:											
57	WEATHERING		L	3750.00 SqFt							
48	L & T CR		L	25.00 Ft							

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	RW 13-31		Name:	RUNWAY 13-31		Use:	RUNWAY	Area:	630,000 SqFt		
Section:	6125	of 6	From:	-			To:	-			
Surface:	AC	Family:	C9N59-GA-RW-AC		Zone:	Category:			Rank:	P	
Area:	50,000 SqFt		Length:	1,000 Ft		Width:	50 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:		Grade:		0		Lanes:	0			
Section Comments:											
Work Date:	1/1/2009		Work Type: New Construction - Initial				Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	10		Surveyed:	3				
Conditions:	PCI:	82									
Inspection Comments:											
Sample Number:	301	Type:	R	Area:	5000.00 SqFt		PCI:	88			
Sample Comments:											
48	L & T CR	L	98.00 Ft								
57	WEATHERING	L	5000.00 SqFt								
Sample Number:	303	Type:	R	Area:	5000.00 SqFt		PCI:	81			
Sample Comments:											
57	WEATHERING	L	4572.00 SqFt								
48	L & T CR	L	55.00 Ft								
52	RAVELING	L	428.00 SqFt								
Sample Number:	306	Type:	R	Area:	5000.00 SqFt		PCI:	77			
Sample Comments:											
57	WEATHERING	L	4070.00 SqFt								
48	L & T CR	L	75.00 Ft								
52	RAVELING	L	930.00 SqFt								

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT										
Branch:	RW 13-31		Name:	RUNWAY 13-31		Use:	RUNWAY	Area:	630,000 SqFt					
Section:	6130		of	6		From:	-		To:	-		Last Const.:	1/1/2009	
Surface:	AC		Family:	C9N59-GA-RW-AC		Zone:			Category:			Rank:	P	
Area:	50,000 SqFt		Length:	1,000 Ft		Width:	50 Ft							
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:			Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0				
Section Comments:														
Work Date:	1/1/2009		Work Type:	New Construction - Initial				Code:	NU-IN		Is Major M&R:	True		
Last Insp. Date:	1/30/2019		TotalSamples:	10		Surveyed:	2							
Conditions:	PCI: 88													
Inspection Comments:														
Sample Number:	102		Type:	R		Area:	5000.00 SqFt		PCI:	85				
Sample Comments:														
52	RAVELING		L	232.00		SqFt								
48	L & T CR		L	10.00		Ft								
57	WEATHERING		L	4768.00		SqFt								
Sample Number:	506		Type:	R		Area:	5000.00 SqFt		PCI:	90				
Sample Comments:														
48	L & T CR		L	31.00		Ft								
57	WEATHERING		L	5000.00		SqFt								



Network:		LEE		Name:		LEESBURG INTERNATIONAL AIRPORT							
Branch:	RW 3-21		Name:		RUNWAY 3-21		Use:	RUNWAY	Area:	487,038 SqFt			
Section:	6205		of 2		From:	-		To:	-		Last Const.:	1/1/2011	
Surface:	AAC		Family:	C9N59-GA-RW-AAC-APC		Zone:			Category:	Rank:		P	
Area:	242,833 SqFt		Length:	3,900 Ft		Width:	75 Ft						
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:			Street Type:			Grade:	0		Lanes:	0			
Section Comments:													
Work Date:	1/1/1942		Work Type:				New Construction - AC		Code:	NC-AC		Is Major M&R:	True
Work Date:	1/1/1983		Work Type:				Complete Reconstruction - AC		Code:	CR-AC		Is Major M&R:	True
Work Date:	1/1/2011		Work Type:				Overlay - AC Structural		Code:	OL-AS		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	48		Surveyed:	8						
Conditions:	PCI:		87										
Inspection Comments:													
Sample Number:	301		Type:	R		Area:	5000.00 SqFt		PCI:	88			
Sample Comments:													
57	WEATHERING		L	5000.00 SqFt									
48	L & T CR		L	87.00 Ft									
Sample Number:	307		Type:	R		Area:	5000.00 SqFt		PCI:	89			
Sample Comments:													
48	L & T CR		L	40.00 Ft									
57	WEATHERING		L	5000.00 SqFt									
Sample Number:	313		Type:	R		Area:	5000.00 SqFt		PCI:	86			
Sample Comments:													
57	WEATHERING		L	5000.00 SqFt									
48	L & T CR		L	121.00 Ft									
Sample Number:	319		Type:	R		Area:	5000.00 SqFt		PCI:	89			
Sample Comments:													
48	L & T CR		L	49.00 Ft									
57	WEATHERING		L	5000.00 SqFt									
Sample Number:	325		Type:	R		Area:	5000.00 SqFt		PCI:	85			
Sample Comments:													
52	RAVELING		L	66.00 SqFt									
57	WEATHERING		L	4934.00 SqFt									
48	L & T CR		L	98.00 Ft									
Sample Number:	331		Type:	R		Area:	5000.00 SqFt		PCI:	85			
Sample Comments:													
52	RAVELING		L	62.00 SqFt									
56	SWELLING		L	1.00 SqFt									
57	WEATHERING		L	4938.00 SqFt									
48	L & T CR		L	41.00 Ft									
Sample Number:	337		Type:	R		Area:	5000.00 SqFt		PCI:	88			
Sample Comments:													
48	L & T CR		L	6.00 Ft									
57	WEATHERING		L	4936.00 SqFt									
52	RAVELING		L	64.00 SqFt									
Sample Number:	343		Type:	R		Area:	5000.00 SqFt		PCI:	88			
Sample Comments:													
57	WEATHERING		L	4942.00 SqFt									
48	L & T CR		L	13.00 Ft									
52	RAVELING		L	58.00 SqFt									

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT										
Branch:	RW 3-21		Name:	RUNWAY 3-21		Use:	RUNWAY		Area:	487,038 SqFt				
Section:	6210		of	2		From:	-		To:	-		Last Const.:	1/1/2011	
Surface:	AAC		Family:	C9N59-GA-RW-AAC-APC		Zone:			Category:			Rank:	P	
Area:	244,205 SqFt		Length:	4,857 Ft		Width:	25 Ft							
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:			Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0				
Section Comments:														
Work Date:	1/1/1942		Work Type:	New Construction - Initial				Code:	NU-IN		Is Major M&R:	True		
Work Date:	1/1/1983		Work Type:	Overlay				Code:	OL-MR		Is Major M&R:	True		
Work Date:	1/1/2011		Work Type:	Overlay				Code:	OL-MR		Is Major M&R:	True		
Last Insp. Date:	1/30/2019		TotalSamples:	48		Surveyed:	8							
Conditions:	PCI: 88													
Inspection Comments:														
Sample Number:	106		Type:	R		Area:	5000.00 SqFt		PCI:	94				
Sample Comments:														
57	WEATHERING		L	5000.00 SqFt										
Sample Number:	118		Type:	R		Area:	5000.00 SqFt		PCI:	90				
Sample Comments:														
48	L & T CR		L	35.00 Ft										
57	WEATHERING		L	5000.00 SqFt										
Sample Number:	130		Type:	R		Area:	5000.00 SqFt		PCI:	94				
Sample Comments:														
57	WEATHERING		L	5000.00 SqFt										
Sample Number:	144		Type:	R		Area:	5000.00 SqFt		PCI:	94				
Sample Comments:														
57	WEATHERING		L	5000.00 SqFt										
Sample Number:	500		Type:	R		Area:	5000.00 SqFt		PCI:	88				
Sample Comments:														
48	L & T CR		L	43.00 Ft										
57	WEATHERING		L	5000.00 SqFt										
42	BLEEDING		N	10.00 SqFt										
Sample Number:	512		Type:	R		Area:	5000.00 SqFt		PCI:	79				
Sample Comments:														
52	RAVELING		L	810.00 SqFt										
57	WEATHERING		L	4190.00 SqFt										
48	L & T CR		L	12.00 Ft										
Sample Number:	524		Type:	R		Area:	5000.00 SqFt		PCI:	90				
Sample Comments:														
57	WEATHERING		L	5000.00 SqFt										
42	BLEEDING		N	7.00 SqFt										
48	L & T CR		L	17.00 Ft										
Sample Number:	536		Type:	R		Area:	5000.00 SqFt		PCI:	72				
Sample Comments:														
57	WEATHERING		L	2300.00 SqFt										
52	RAVELING		L	2700.00 SqFt										
48	L & T CR		L	9.00 Ft										

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT										
Branch:	TL APRON		Name:	TAXILANE TO APRON		Use:	TAXILANE	Area:	10,698 SqFt					
Section:	4305		of	1		From:	-		To:	-		Last Const.:	1/1/1982	
Surface:	AC		Family:	C9N59-GA-TW-AC		Zone:			Category:			Rank:	P	
Area:	10,698 SqFt		Length:	300 Ft		Width:	35 Ft							
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft				
Shoulder:			Street Type:			Grade:	0		Lanes:	0				
Section Comments:														
Work Date:	1/1/1982		Work Type:	New Construction - Initial				Code:	NU-IN		Is Major M&R:	True		
Work Date:	1/1/2018		Work Type:	Patching - AC				Code:	PA-AC		Is Major M&R:	False		
Work Date:	1/1/2018		Work Type:	Surface Treatment - Seal Coat				Code:	ST-SC		Is Major M&R:	False		
Last Insp. Date:	1/30/2019		TotalSamples:	2		Surveyed:	1							
Conditions:	PCI:		35											
Inspection Comments:														
Sample Number:	401		Type:	R		Area:	4943.00 SqFt		PCI:	35				
Sample Comments:														
52	RAVELING		M	8.00		SqFt								
53	RUTTING		M	90.00		SqFt								
53	RUTTING		L	77.00		SqFt								
50	PATCHING		L	88.00		SqFt								
45	DEPRESSION		L	40.00		SqFt								
48	L & T CR		L	365.00		Ft								
41	ALLIGATOR CR		L	34.00		SqFt								
48	L & T CR		M	54.00		Ft								
45	DEPRESSION		H	20.00		SqFt								

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	TL T-HANG		Name:	TAXILANE TO T-HANGARS		Use:	TAXILANE	Area:	35,144 SqFt		
Section:	4110 of 2		From:	-		To:	-		Last Const.:	12/25/2000	
Surface:	AC		Family:	C9N59-GA-TW-AC		Zone:			Rank:	P	
Area:	14,559 SqFt		Length:	300 Ft		Width:	30 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:		Grade:		0		Lanes:	0			
Section Comments:											
Work Date:	12/25/2000		Work Type: New Construction - Initial				Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	3		Surveyed:	1				
Conditions:	PCI: 69										
Inspection Comments:											
Sample Number:	101	Type:	R	Area:	5550.00 SqFt		PCI:	69			
Sample Comments:											
48	L & T CR		L	81.00 Ft							
52	RAVELING		L	5550.00 SqFt							

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT								
Branch:	TL T-HANG		Name:	TAXILANE TO T-HANGARS		Use:	TAXILANE	Area:	35,144 SqFt			
Section:	4115	of 2	From:	-			To:	-		Last Const.:	12/25/2000	
Surface:	AC	Family:	C9N59-GA-TW-AC		Zone:		Category:		Rank:	P		
Area:	20,585 SqFt		Length:	300 Ft		Width:	30 Ft					
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:		Street Type:		Grade:	0		Lanes:	0				
Section Comments:												
Work Date:	12/25/2000		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True	
Last Insp. Date:	1/30/2019		TotalSamples:	5		Surveyed:	1					
Conditions:	PCI:	80										
Inspection Comments:												
Sample Number:	302	Type:	R	Area:	5180.00 SqFt		PCI:	80				
Sample Comments:												
48	L & T CR	M	15.00 Ft									
57	WEATHERING	L	5076.00 SqFt									
52	RAVELING	L	104.00 SqFt									
48	L & T CR	L	81.00 Ft									



Network:	LEE	Name:	LEESBURG INTERNATIONAL AIRPORT						
Branch:	TW A	Name:	TAXIWAY A		Use:	TAXIWAY	Area:	334,552 SqFt	
Section:	100	of	4	From:	-	To:	-	Last Const.:	1/1/2009
Surface:	AC	Family:	C9N59-GA-TW-AC		Zone:		Category:	Rank:	P
Area:	76,252 SqFt		Length:	1,400 Ft		Width:	50 Ft		
Slabs:	Slab Length:		Ft	Slab Width:		Ft	Joint Length:		Ft
Shoulder:	Street Type:			Grade:	0		Lanes:	0	
Section Comments:									
Work Date:	1/1/2009		Work Type: New Construction - Initial			Code:	NU-IN		Is Major M&R: True
Last Insp. Date:	1/30/2019		TotalSamples:	15		Surveyed:	3		
Conditions:	PCI:	85							
Inspection Comments:									
Sample Number:	250	Type:	R	Area:	5000.00 SqFt		PCI:	80	
Sample Comments:									
48	L & T CR		L	14.00 Ft					
42	BLEEDING		N	104.00 SqFt					
57	WEATHERING		L	5000.00 SqFt					
Sample Number:	255	Type:	R	Area:	5243.00 SqFt		PCI:	84	
Sample Comments:									
57	WEATHERING		L	5243.00 SqFt					
42	BLEEDING		N	64.00 SqFt					
48	L & T CR		L	27.00 Ft					
Sample Number:	260	Type:	R	Area:	6530.00 SqFt		PCI:	89	
Sample Comments:									
48	L & T CR		L	65.00 Ft					
57	WEATHERING		L	6530.00 SqFt					

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT								
Branch:	TW A		Name:	TAXIWAY A		Use:	TAXIWAY	Area:	334,552 SqFt			
Section:	105	of	4	From:	-			To:	-		Last Const.:	1/1/2014
Surface:	AC	Family:	C9N59-GA-TW-AC		Zone:				Category:	Rank: P		
Area:	82,235 SqFt		Length:	1,460 Ft		Width:	50 Ft					
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:	Street Type:		Grade:		0		Lanes:	0				
Section Comments:												
Work Date:	1/1/2014		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True	
Last Insp. Date:	1/30/2019		TotalSamples:	15		Surveyed:	2					
Conditions:	PCI:	93										
Inspection Comments:												
Sample Number:	104	Type:	R	Area:	6000.00 SqFt		PCI:	91				
Sample Comments:												
48	L & T CR	L	9.00 Ft									
57	WEATHERING	L	6000.00 SqFt									
Sample Number:	242	Type:	R	Area:	5000.00 SqFt		PCI:	94				
Sample Comments:												
57	WEATHERING	L	5000.00 SqFt									

Network:	LEE		Name:		LEESBURG INTERNATIONAL AIRPORT					
Branch:	TW A		Name:		TAXIWAY A	Use:	TAXIWAY	Area:	334,552 SqFt	
Section:	110	of 4	From:	-		To:	-	Last Const.:	1/1/2000	
Surface:	AAC	Family:	C9N59-GA-TW-AAC-APC		Zone:		Category:	Rank:	P	
Area:	113,871 SqFt	Length:	3,790 Ft		Width:	50 Ft				
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:		Street Type:			Grade:	0		Lanes:	0	
Section Comments:										
Work Date:	1/1/1942		Work Type: New Construction - AC				Code:	NC-AC	Is Major M&R:	True
Work Date:	1/1/1982		Work Type: Complete Reconstruction - AC				Code:	CR-AC	Is Major M&R:	True
Work Date:	1/1/2000		Work Type: Overlay - AC Structural				Code:	OL-AS	Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	22		Surveyed:	3			
Conditions:	PCI:	78								
Inspection Comments:										
Sample Number:	215	Type:	R	Area:	5000.00 SqFt		PCI:	84		
Sample Comments:										
42	BLEEDING	N	24.00	SqFt						
57	WEATHERING	L	4750.00	SqFt						
57	WEATHERING	M	250.00	SqFt						
48	L & T CR	L	12.00	Ft						
Sample Number:	219	Type:	R	Area:	5000.00 SqFt		PCI:	80		
Sample Comments:										
57	WEATHERING	L	4450.00	SqFt						
52	RAVELING	L	550.00	SqFt						
48	L & T CR	L	38.00	Ft						
Sample Number:	228	Type:	R	Area:	5381.00 SqFt		PCI:	69		
Sample Comments:										
57	WEATHERING	L	4381.00	SqFt						
48	L & T CR	L	72.00	Ft						
42	BLEEDING	N	163.00	SqFt						
52	RAVELING	L	1000.00	SqFt						

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT								
Branch:	TW A		Name:	TAXIWAY A		Use:	TAXIWAY		Area:	334,552 SqFt		
Section:	115 of 4		From:	-			To:	-			Last Const.:	1/1/2009
Surface:	AC		Family:	C9N59-GA-TW-AC		Zone:				Category:	Rank: P	
Area:	62,194 SqFt		Length:	1,400 Ft		Width:	50 Ft					
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:		Ft		
Shoulder:	Street Type:				Grade:	0		Lanes:		0		
Section Comments:												
Work Date:	1/1/2009		Work Type: New Construction - Initial				Code:	NU-IN		Is Major M&R: True		
Last Insp. Date:	1/30/2019		TotalSamples:	11		Surveyed: 2						
Conditions:	PCI: 89											
Inspection Comments:												
Sample Number:	201		Type:	R		Area:	6348.00 SqFt		PCI:	87		
Sample Comments:												
48	L & T CR		L	133.00 Ft								
57	WEATHERING		L	6348.00 SqFt								
Sample Number:	210		Type:	R		Area:	6584.00 SqFt		PCI:	92		
Sample Comments:												
57	WEATHERING		L	6584.00 SqFt								
48	L & T CR		L	5.00 Ft								

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT					
Branch:	TW A1		Name:	TAXIWAY A1		Use:	TAXIWAY	Area:	4,409 SqFt
Section:	120	of	1	From:	-	To:	-	Last Const.:	1/1/1989
Surface:	AC	Family:	C9N59-GA-TW-AC	Zone:		Category:		Rank:	P
Area:	4,409 SqFt	Length:	80 Ft	Width:	50 Ft				
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0	Lanes:	0		
Section Comments:									
Work Date:	1/1/1989	Work Type:	BUILT	Code:	IMPORTED	Is Major M&R:	True		
Last Insp. Date:	1/30/2019	TotalSamples:	1	Surveyed:	1				
Conditions:	PCI:	59							
Inspection Comments:									
Sample Number:	502	Type:	R	Area:	4409.00 SqFt	PCI:	59		
Sample Comments:									
42	BLEEDING	N	68.00	SqFt					
52	RAVELING	M	9.00	SqFt					
52	RAVELING	L	4400.00	SqFt					
48	L & T CR	L	261.00	Ft					



Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	TW A2		Name:	TAXIWAY A2		Use:	TAXIWAY	Area:	4,287 SqFt		
Section:	130	of 1	From:	-			To:	-	Last Const.:	1/1/1989	
Surface:	AC	Family:	C9N59-GA-TW-AC		Zone:		Category:		Rank:	P	
Area:	4,287 SqFt	Length:	80 Ft		Width:	40 Ft					
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0		Lanes:	0			
Section Comments:											
Work Date:	1/1/1989		Work Type:	BUILT			Code:	IMPORTED		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	1		Surveyed:	1				
Conditions:	PCI:	65									
Inspection Comments:											
Sample Number:	501	Type:	R	Area:	4287.00 SqFt		PCI:	65			
Sample Comments:											
52	RAVELING	L	4282.00		SqFt						
52	RAVELING	M	5.00		SqFt						
48	L & T CR	L	301.00		Ft						

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT					
Branch:	TW A3		Name:	TAXIWAY A3		Use:	TAXIWAY	Area:	4,673 SqFt
Section:	140	of	1	From:	-	To:	-	Last Const.:	1/1/1989
Surface:	AC	Family:	C9N59-GA-TW-AC	Zone:		Category:		Rank:	P
Area:	4,673 SqFt	Length:	80 Ft	Width:	30 Ft				
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0	Lanes:	0		
Section Comments:									
Work Date:	1/1/1989	Work Type:	BUILT	Code:	IMPORTED	Is Major M&R:	True		
Last Insp. Date:	1/30/2019	TotalSamples:	1	Surveyed:	1				
Conditions:	PCI:	63							
Inspection Comments:									
Sample Number:	500	Type:	R	Area:	4673.00 SqFt	PCI:	63		
Sample Comments:									
54	SHOVING	L	11.00 SqFt						
48	L & T CR	M	5.00 Ft						
48	L & T CR	L	143.00 Ft						
57	WEATHERING	L	2273.00 SqFt						
52	RAVELING	L	2400.00 SqFt						

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	TW B		Name:	TAXIWAY B		Use:	TAXIWAY		Area:	81,104 SqFt	
Section:	200 of 2		From:	-		To:	-		Last Const.:	1/1/2011	
Surface:	AAC		Family:	C9N59-GA-TW-AAC-APC		Zone:			Category:	Rank: P	
Area:	76,570 SqFt		Length:	1,040 Ft		Width:	40 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:				Grade:	0		Lanes:	0		
Section Comments:											
Work Date:	1/1/1983		Work Type: New Construction - AC				Code:	NC-AC		Is Major M&R:	True
Work Date:	1/1/2011		Work Type: Overlay - AC Structural				Code:	OL-AS		Is Major M&R:	True
Last Insp. Date: 1/30/2019											
			TotalSamples:	16		Surveyed: 3					
Conditions:	PCI: 83										
Inspection Comments:											
Sample Number:	109		Type:	R		Area:	4996.00 SqFt		PCI:	80	
Sample Comments:											
57	WEATHERING		L	4996.00 SqFt							
48	L & T CR		L	250.00 Ft							
Sample Number:	112		Type:	R		Area:	4996.00 SqFt		PCI:	78	
Sample Comments:											
57	WEATHERING		L	4996.00 SqFt							
48	L & T CR		L	299.00 Ft							
Sample Number:	120		Type:	R		Area:	5000.00 SqFt		PCI:	89	
Sample Comments:											
57	WEATHERING		L	5000.00 SqFt							
48	L & T CR		L	41.00 Ft							

Network:	LEE			Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	TW B		Name:	TAXIWAY B		Use:	TAXIWAY	Area:	81,104 SqFt			
Section:	205 of 2		From:	-			To:	-		Last Const.:	1/1/2002	
Surface:	AAC		Family:	C9N59-GA-TW-AAC-APC		Zone:			Category:	Rank: P		
Area:	4,534 SqFt		Length:	91 Ft		Width:	50 Ft					
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0		
Section Comments:												
Work Date:	12/25/1942		Work Type:	New Construction - Initial				Code:	NU-IN		Is Major M&R:	True
Work Date:	1/1/1982		Work Type:	MILL and OVERLAY				Code:	ML-OV		Is Major M&R:	True
Work Date:	1/1/2002		Work Type:	MILL and OVERLAY				Code:	ML-OV		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	1		Surveyed:	1					
Conditions:	PCI: 65											
Inspection Comments:												
Sample Number:	106		Type:	R		Area:	4534.00 SqFt		PCI:	65		
Sample Comments:												
48	L & T CR		L	19.00 Ft								
52	RAVELING		L	4534.00 SqFt								
42	BLEEDING		N	92.00 SqFt								

Network:	LEE			Name:	LEESBURG INTERNATIONAL AIRPORT					
Branch:	TW C		Name:	TAXIWAY C		Use:	TAXIWAY	Area:	25,917 SqFt	
Section:	300	of 1	From:	-			To:	-	Last Const.: 1/1/2009	
Surface:	AC	Family:	C9N59-GA-TW-AC		Zone:	Category:		Rank: P		
Area:	25,917 SqFt		Length:	320 Ft		Width:	80 Ft			
Slabs:	Slab Length:		Ft		Slab Width:		Ft		Joint Length:	Ft
Shoulder:	Street Type:		Grade:		0		Lanes:		0	
Section Comments:										
Work Date:	1/1/2009		Work Type: New Construction - Initial				Code:	NU-IN		Is Major M&R: True
Last Insp. Date:	1/30/2019		TotalSamples:	4		Surveyed: 1				
Conditions:	PCI: 83									
Inspection Comments:										
Sample Number:	152	Type:	R	Area:	6800.00 SqFt		PCI:	83		
Sample Comments:										
52	RAVELING		L	350.00 SqFt						
57	WEATHERING		L	6450.00 SqFt						
48	L & T CR		L	68.00 Ft						



Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT								
Branch:	TW D		Name:	TAXIWAY D		Use:	TAXIWAY	Area:	22,621 SqFt			
Section:	400	of 1	From:	-			To:	-		Last Const.:	1/1/2002	
Surface:	AC	Family:	C9N59-GA-TW-AC		Zone:		Category:		Rank:	P		
Area:	22,621 SqFt	Length:	450 Ft		Width:	55 Ft						
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:		Street Type:			Grade:	0		Lanes:	0			
Section Comments:												
Work Date:	1/1/2002		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True	
Last Insp. Date:	1/30/2019		TotalSamples:	5		Surveyed:	1					
Conditions:	PCI:	57										
Inspection Comments:												
Sample Number:	252	Type:	R	Area:	4500.00 SqFt		PCI:	57				
Sample Comments:												
48	L & T CR	L	86.00 Ft									
42	BLEEDING	N	313.00 SqFt									
57	WEATHERING	L	4410.00 SqFt									
57	WEATHERING	M	90.00 SqFt									

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	TW E		Name:	TAXIWAY E		Use:	TAXIWAY	Area:	8,617 SqFt		
Section:	500	of	1	From:	-	To:	-	Last Const.:	1/1/2011		
Surface:	AC	Family:	C9N59-GA-TW-AC		Zone:		Category:		Rank:	P	
Area:	8,617 SqFt	Length:	200 Ft		Width:	45 Ft					
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0		Lanes:	0			
Section Comments:											
Work Date:	1/1/2011		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	2		Surveyed:	1				
Conditions:	PCI:	90									
Inspection Comments:											
Sample Number:	101	Type:	R	Area:	3818.00 SqFt		PCI:	90			
Sample Comments:											
48	L & T CR	L	16.00 Ft								
57	WEATHERING	L	3818.00 SqFt								

Network:	LEE	Name:	LEESBURG INTERNATIONAL AIRPORT						
Branch:	TW J	Name:	TAXIWAY J		Use:	TAXIWAY	Area:	26,600 SqFt	
Section:	600	of	1	From:	-	To:	-	Last Const.:	1/1/2011
Surface:	AAC	Family:	C9N59-GA-TW-AAC-APC	Zone:		Category:		Rank:	P
Area:	26,600 SqFt	Length:	430 Ft	Width:	40 Ft				
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0	Lanes:	0		
Section Comments:									
Work Date:	1/1/1982	Work Type: New Construction - AC				Code:	NC-AC	Is Major M&R:	True
Work Date:	1/1/2011	Work Type: MILL and OVERLAY				Code:	ML-OV	Is Major M&R:	True
Last Insp. Date:	1/30/2019	TotalSamples:	6	Surveyed:	1				
Conditions:	PCI: 90								
Inspection Comments:									
Sample Number:	102	Type:	R	Area:	4000.00 SqFt	PCI:	90		
Sample Comments:									
48	L & T CR	L	18.00 Ft						
57	WEATHERING	L	4000.00 SqFt						

Network:	LEE	Name:	LEESBURG INTERNATIONAL AIRPORT						
Branch:	TW K	Name:	TAXIWAY K		Use:	TAXIWAY	Area:	199,709 SqFt	
Section:	700	of	4	From:	-	To:	-	Last Const.:	1/1/2011
Surface:	AAC	Family:	C9N59-GA-TW-AAC-APC	Zone:		Category:		Rank:	P
Area:	138,244 SqFt	Length:	3,950 Ft	Width:	35 Ft				
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft		
Shoulder:		Street Type:		Grade:	0	Lanes:	0		
Section Comments:									
Work Date:	1/1/1986	Work Type: BUILT				Code:	IMPORTED	Is Major M&R:	True
Work Date:	1/1/2011	Work Type: MILL and OVERLAY				Code:	ML-OV	Is Major M&R:	True
Last Insp. Date:	1/30/2019	TotalSamples:	28	Surveyed:	3				
Conditions:	PCI: 82								
Inspection Comments:									
Sample Number:	111	Type:	R	Area:	5000.00 SqFt	PCI:	74		
Sample Comments:									
48	L & T CR	M	5.00 Ft						
57	WEATHERING	L	5000.00 SqFt						
48	L & T CR	L	314.00 Ft						
Sample Number:	125	Type:	R	Area:	5250.00 SqFt	PCI:	86		
Sample Comments:									
48	L & T CR	L	61.00 Ft						
57	WEATHERING	M	150.00 SqFt						
57	WEATHERING	L	5100.00 SqFt						
Sample Number:	133	Type:	R	Area:	5250.00 SqFt	PCI:	87		
Sample Comments:									
57	WEATHERING	M	100.00 SqFt						
57	WEATHERING	L	5150.00 SqFt						
48	L & T CR	L	59.00 Ft						

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT								
Branch:	TW K		Name:	TAXIWAY K		Use:	TAXIWAY	Area:	199,709 SqFt			
Section:	705	of	4	From:	-			To:	-		Last Const.:	1/1/2004
Surface:	AC	Family:	C9N59-GA-TW-AC		Zone:				Category:	Rank: P		
Area:	33,012 SqFt		Length:	800 Ft		Width:	60 Ft					
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:	Street Type:		Grade:		0		Lanes:	0				
Section Comments:												
Work Date:	1/1/2004		Work Type:	New Construction - AC			Code:	NC-AC		Is Major M&R:	True	
Last Insp. Date:	1/30/2019		TotalSamples:	8		Surveyed:	1					
Conditions:	PCI:	65										
Inspection Comments:												
Sample Number:	101	Type:	R	Area:	4349.00 SqFt		PCI:	65				
Sample Comments:												
48	L & T CR		L	178.00 Ft								
52	RAVELING		L	4347.00 SqFt								
52	RAVELING		M	2.00 SqFt								



Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT							
Branch:	TW K		Name:	TAXIWAY K		Use:	TAXIWAY	Area:	199,709 SqFt		
Section:	710	of 4	From:	-			To:	-		Last Const.:	1/1/2014
Surface:	AC		Family:	C9N59-GA-TW-AC		Zone:			Category:	Rank: P	
Area:	23,819 SqFt		Length:	325 Ft		Width:	70 Ft				
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Work Date:	1/1/2014		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	5		Surveyed:	1				
Conditions:	PCI:	94									
Inspection Comments:											
Sample Number:	121	Type:	R	Area:	4381.00 SqFt		PCI:	94			
Sample Comments:											
57	WEATHERING		L	4381.00 SqFt							

Network:	LEE		Name:	LEESBURG INTERNATIONAL AIRPORT								
Branch:	TW K		Name:	TAXIWAY K		Use:	TAXIWAY	Area:	199,709 SqFt			
Section:	715	of 4	From:	-			To:	-		Last Const.:	1/1/1986	
Surface:	AC		Family:	C9N59-GA-TW-AC		Zone:			Category:	Rank: P		
Area:	4,634 SqFt		Length:	100 Ft		Width:	35 Ft					
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:	Street Type:		Grade:		0		Lanes:	0				
Section Comments:												
Work Date:	1/1/1986		Work Type:	New Construction - AC				Code:	NC-AC		Is Major M&R:	True
Last Insp. Date:	1/30/2019		TotalSamples:	1		Surveyed:	1					
Conditions:	PCI:	63										
Inspection Comments:												
Sample Number:	122	Type:	R	Area:	4634.00 SqFt		PCI:	63				
Sample Comments:												
48	L & T CR		L	189.00 Ft								
48	L & T CR		M	60.00 Ft								
52	RAVELING		L	3707.00 SqFt								
57	WEATHERING		L	927.00 SqFt								