FLORIDA DEPARTMENT OF TRANSPORTATION







Florida Department of Transportation

Statewide Airfield Pavement Management Program

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS



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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
OBE	RUNWAY 5-23	RUNWAY	6105	250,000	71	Satisfactory
OBE	RUNWAY 5-23	RUNWAY	6107	250,000	85	Satisfactory
OBE	RUNWAY 14-32	RUNWAY	6205	281,325	56	Fair
OBE	RUNWAY 14-32	RUNWAY	6210	11,325	92	Good
OBE	TAXIWAY A	TAXIWAY	105	75,503	85	Satisfactory
OBE	TAXIWAY A	TAXIWAY	110	104,973	87	Good
OBE	TAXIWAY A	TAXIWAY	115	2,137	67	Fair
OBE	TAXIWAY A	TAXIWAY	130	1,391	40	Very Poor
OBE	TAXIWAY A2	TAXIWAY	117	17,464	90	Good
OBE	TAXIWAY A3	TAXIWAY	120	17,791	88	Good
OBE	TAXIWAY B	TAXIWAY	205	151,420	52	Poor
OBE	TAXIWAY B	TAXIWAY	210	9,422	89	Good
OBE	TAXIWAY C	TAXIWAY	305	31,940	88	Good
OBE	TAXIWAY D	TAXIWAY	405	14,810	64	Fair
OBE	TAXIWAY D	TAXIWAY	410	5,148	87	Good
OBE	T-HANGAR TAXILANE	TAXILANE	4205	17,395	65	Fair
OBE	APRON	APRON	4105	139,680	79	Satisfactory
OBE	APRON	APRON	4110	53,454	65	Fair





Forecasted Pavement Condition Index 2018-2027

Table E-2 Pavement Condition Index Forecast 2018-2027

Notweek ID	Branch ID	Section ID	Loot DCI	Forecasted PCI									
Network ID	Diancii ib	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
OBE	AP	4105	79	77	76	73	71	68	66	63	61	58	56
OBE	AP	4110	65	63	60	58	56	55	53	53	52	52	52
OBE	RW 14-32	6205	56	54	52	49	46	43	40	36	33	31	29
OBE	RW 14-32	6210	92	90	88	85	83	80	78	75	73	71	69
OBE	RW 5-23	6105	71	69	67	65	64	63	62	61	61	60	60
OBE	RW 5-23	6107	85	83	80	78	75	73	71	69	67	65	64
OBE	T-HANG	4205	65	64	63	62	61	60	59	58	57	56	54
OBE	TW A	105	85	83	81	79	77	75	74	73	72	71	70
OBE	TW A	110	87	85	82	80	78	77	75	74	73	72	71
OBE	TW A	115	67	66	64	63	62	60	59	57	55	53	52
OBE	TW A	130	40	38	37	36	34	33	32	31	31	30	29
OBE	TW A2	117	90	87	85	82	80	78	77	75	74	73	72
OBE	TW A3	120	88	86	83	81	79	77	76	74	73	72	71
OBE	TW B	205	52	50	49	47	46	45	44	44	43	43	43
OBE	TW B	210	89	86	84	82	80	78	76	75	74	73	72
OBE	TW C	305	88	86	83	81	79	77	76	74	73	72	71
OBE	TW D	405	64	63	62	61	60	59	58	57	55	54	53
OBE	TW D	410	87	85	82	80	78	77	75	74	73	72	71

Major Rehabilitation Planning 2018-2027

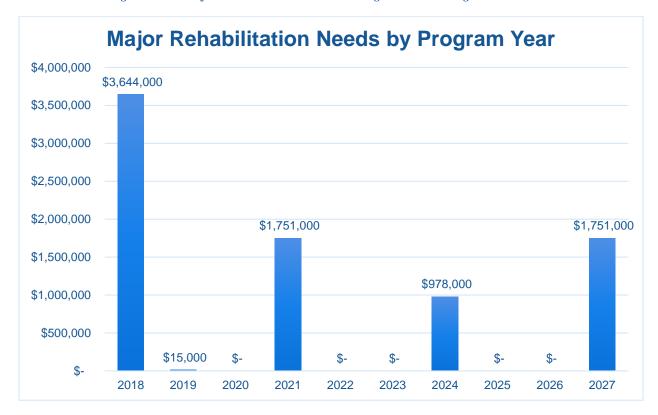
Table E-3 Major Rehabilitation Planning 2018-2027

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	OBE	AP	4110	AAC	53,454	63	AC Restoration	\$ 375,000.00
2018	OBE	RW 14-32	6205	AAC	281,325	54	AC Restoration	\$ 1,970,000.00
2018	OBE	T-HANG	4205	AC	17,395	64	AC Restoration	\$ 122,000.00
2018	OBE	TW A	130	AC	1,391	38	AC Reconstruction	\$ 13,000.00
2018	OBE	TW B	205	AAC	151,420	50	AC Restoration	\$ 1,060,000.00
2018	OBE	TW D	405	AC	14,810	63	AC Restoration	\$ 104,000.00
2019	OBE	TW A	115	AAC	2,137	64	AC Restoration	\$ 15,000.00
2021	OBE	RW 5-23	6105	AAC	250,000	64	AC Restoration	\$ 1,751,000.00
2024	OBE	AP	4105	AAC	139,680	63	AC Restoration	\$ 978,000.00
2027	OBE	RW 5-23	6107	AAC	250,000	64	AC Restoration	\$ 1,751,000.00

^{*}All planning cost values have been rounded to the nearest thousand-dollar



Figure E-4 Major Rehabilitation Planning Annual Budget 2018-2027



Summary of Okeechobee County Airport

Okeechobee County Airport was inspected in April 2017 – the overall weighted PCI value was 71, a condition rating of Satisfactory. The results of the maintenance, repair, and major rehabilitation analysis identified \$170,050 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$8,139,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$3,644,000 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 – 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 2016-2017

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 publicuse airports with pavement facilities and provides users with comprehensive data to better manage pavement assets.

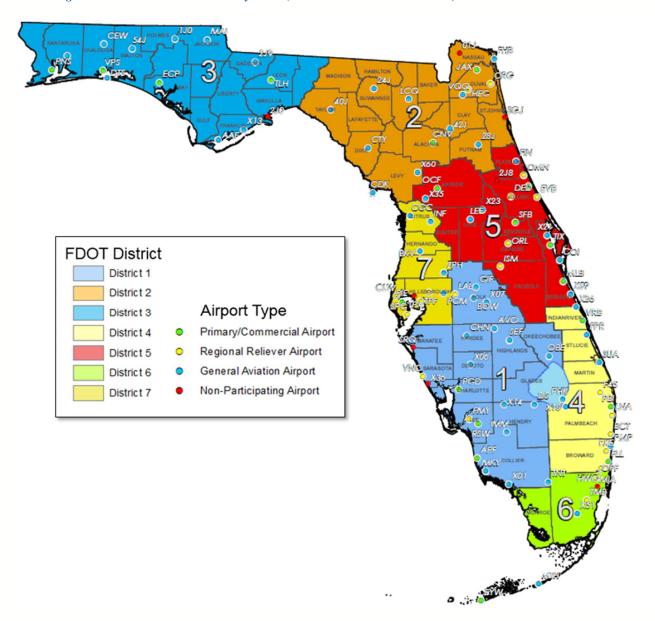
Airport Pavement

Evaluation Report





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." Planninglevel 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 AC150/5380-7B "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.
- An objective and repeatable system for evaluating pavement condition.
- Procedures for predicting future pavement condition.
- Procedures for modeling both past and future pavement performance conditions.
- 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 costeffective manner. Figure 1.7-1 Typical Pavement Condition Life Cycle, which is based on the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)." Figure 1.7-1 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.

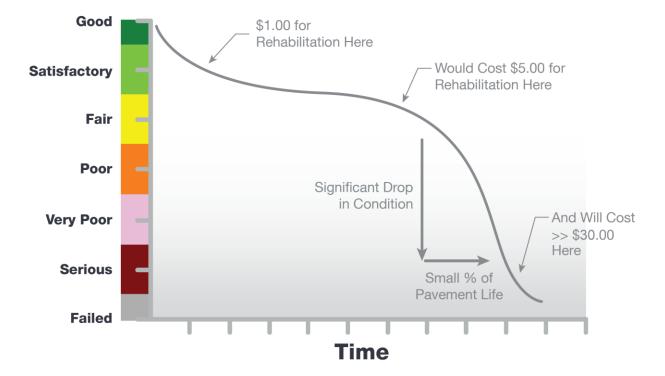


Figure 1.7-1 Typical Pavement Condition Life Cycle

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

Figure 1.7-2 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.

WITH TREATMENT Good 86-100 **Pavement Condition** \$2/sy to \$4/sy here for Satisfactory preventive maintenance surface seals every 5-7 71-85 Fair \$15/sy to \$25/sy here for minor resurfacing 56-70 thin AC overlay Poor 41-55 WITHOUT TREATMENT \$19/sv to \$35/sv here Very Poor for major resurfacing thick AC overlay 26-40 Serious 11-25 \$57/sy to \$86/sy here Failed 0-10 0 5 10 20 25

Figure 1.7-2 General Pavement Treatments by Condition Range

Pavement maintenance, repair, and major rehabilitation would be quite anticipatory if all pavements behaved as depicted in Figures 1.7-1 and 1.7-2, 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, nonaircraft 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.

Age (Years)

Figures 1.7-3 and Figure 1.7-4 depict visual conditions of pavement facilities, for both AC and PCC respectively, with approximated PCI ranges and corresponding repair and rehabilitation measures.





Figure 1.7-3 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 Rehabiliation	40-64	50	A S	Pavements that have deteriorated below a PCI 65, 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 1.7-4 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 Rehabiliation	40-64	50		Pavements that have deteriorated below a PCI 65, 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 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 2nd 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 PAVERTM 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 (±8 slabs) for Portland Cement Concrete (PCC) pavement and 5,000 contiguous square feet (±2,000 ft²) 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		
Network	Overall pavement assets maintained by the Airport	"Tallahassee International Airport – Airfield Pavements"		
Branch Name	Commonly defined asset name as established by Airport and by use	"Runway 18-36"		
Branch ID	Codified shorthand name for commonly defined asset established for database identification	"RW 18-36" RW, Branch Use, "Runway" 18-36, Runway Facility		
Section ID	Codified identification for pavement asset that is distinct by the following: Pavement Composition Construction Work History Aircraft Traffic Condition Records	"6105"		
Sample Unit	A numeric identification of an area of pavement (5,000±2,000 SF of AC or 20±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 6inches 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 6 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.
- 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 2.6.2-1 (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 2.6.2-1 (b) Pavement Distresses Possible Causes - Flexible Asphalt Concrete-Surfaced Airfields

Classification by Possible Causes						
Load	Climate / Durability	Moisture / Drainage	Others			
 Alligator Cracking Corrugation Depression Patching of Load-based distress Polished Aggregate Rutting Slippage Cracking 	 Bleeding Block Cracking Joint Reflection Cracking L/T Cracking Patching of climate / durability-caused distresses Shoving from PCC Raveling Weathering Swelling 	 Alligator Cracking Depression Patching of moisture / drainage caused distress Swelling Raveling Weathering 	Oil Spillage Jet Blast Erosion Polished Aggregate			

Table 2.6.2-1 (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	
 Corrugation Depression Rutting Shoving of asphalt pavement Swelling Raveling Weathering 	 Bleeding Depression Polished Aggregate Rutting 	Block Cracking Joint Reflection Cracking L/T Cracking Slippage Cracking	All Distresses	





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				

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Table 2.6.2-2 (b) Pavement Distresses Possible Causes - Rigid Portland Cement Concrete-Surfaced Airfields

	Classification by Possible Causes											
Load	Climate / Durability	Moisture / Drainage	Others									
 Corner Break Shattered Slab L/T/D Cracking Pumping Patching of Load-associated distress Spalling 	Blowup "D" Cracking Joint Seal Damage Popouts Scaling Patch of Climate/Durability- associated distress Shrinkage Cracking Spalling L/T/D Cracking	 Corner Break Shattered Slab Pumping Patching of Moisture/Drainage- associated distress 	Settlement / Faulting									

Table 2.6.2-2 (c) Pavement Distresses Possible Effects - Rigid Portland Cement Concrete-Surfaced Airfields

	Classifica	ation by Possible Effect	s
Roughness	Skid / Hydroplaning Potential	FOD Potential	Rate of Deterioration and Maintenance Requirements
 Blowup Corner Break L/T/D Cracking Shattered Slab Settlement / Faulting Spalling 	 Settlement / Faulting Spalling 	Corner Break L/T/D Cracking "D" Cracking Joint Seal Damage Shattered Slab Popouts Scaling	All distresses



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 to Inspect						
Sample Units in Section	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 ≤20	10% but ≤10					

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

Number of Total	Sample Units to Inspect						
Sample Units in Section	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 ≤20	10% but ≤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 chances to the ASTM D5340 (version D5340-12) resulted in an 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 develops when there is rapid loss of water in the surface of recently placed pavement or 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

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 Crazing - Low	New	Increase in PCI with no maintenance
	(70) Scaling - Medium	(70) Scaling, Map Cracking, and Crazing - Medium	New	Increase in PCI with no maintenance
	(70) Scaling - High	(70) Scaling, Map Cracking, and Crazing - High	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Low	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Medium	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – High	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(73) Shrinkage Cracking	(73) Shrinkage Cracking	No Change	Prior distress types identified as 'Scaling, Map Cracking, and Crazing' may now be identified as 'Shrinkage Cracking'



Chapter 3



Chapter 3 – Airfield Pavement System Inventory

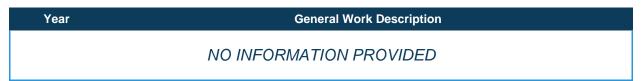
A significant element of an effective airfield pavement management system is the appropriate record keeping of changes due to construction or operational use of the pavement facilities. This chapter discusses the inventory data collected from the airport and summarizes network-level characteristics of 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 3.1.1-1 and Figure 3.1.1-2 provides an inset view of the 2017 Airfield Pavement Network Definition Exhibit and the 2017 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

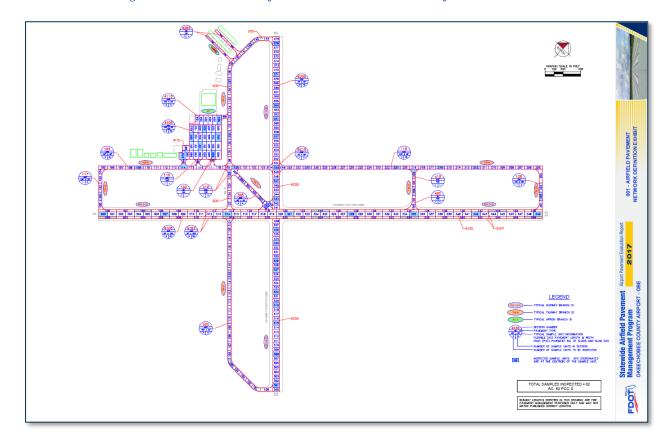


The airport provided a limited combination of record drawings, reports, and staff input that was pertinent information in developing the construction history of the airport's pavements from inception. Major rehabilitation/construction activities performed in the last 24-months or anticipated in the next 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 3.1.1-1 2017 Airfield Pavement Network Definition Exhibit

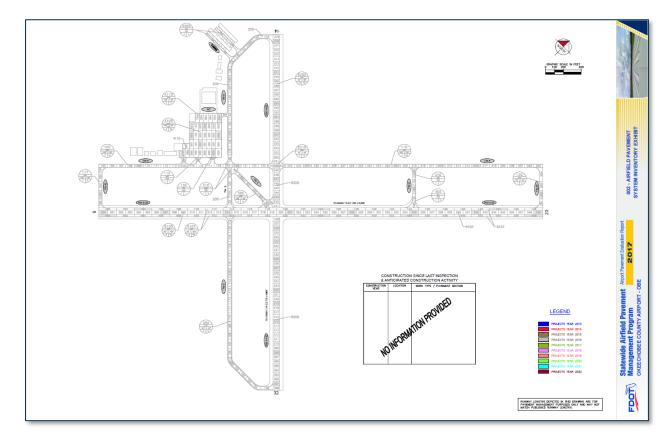


The Airfield Pavement Network Definition Exhibit provides details to the PCI Survey inspection efforts. The exhibit identifies the pavement facilities, surface type, section definition, and sample unit delineation.





Figure 3.1.1-2 2017 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.

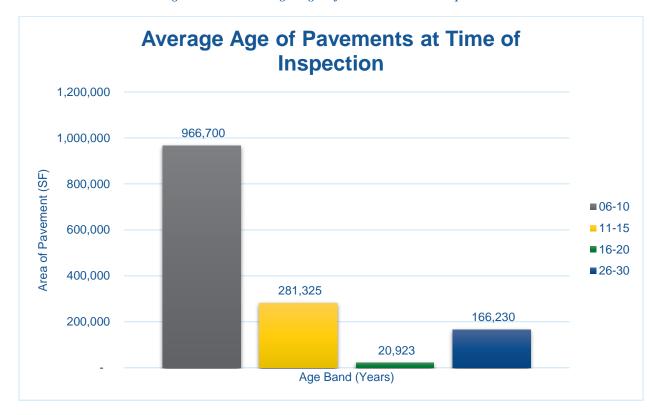
3.1.2 Estimated Pavement Age

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 since any major construction activity has occurred during the PCI Survey inspection. 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



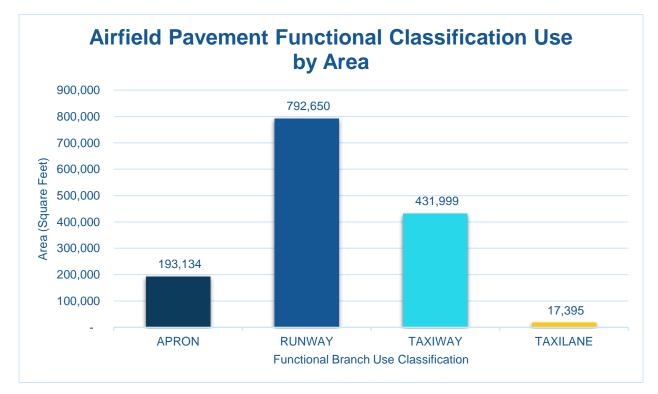
The estimation of the pavement age is based on information requested and provided by participating airports. Additionally, data collected in the prior system updates since 1992 have been relied upon.



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.

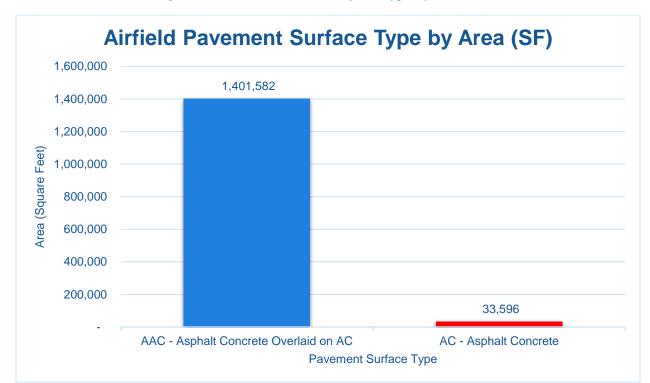
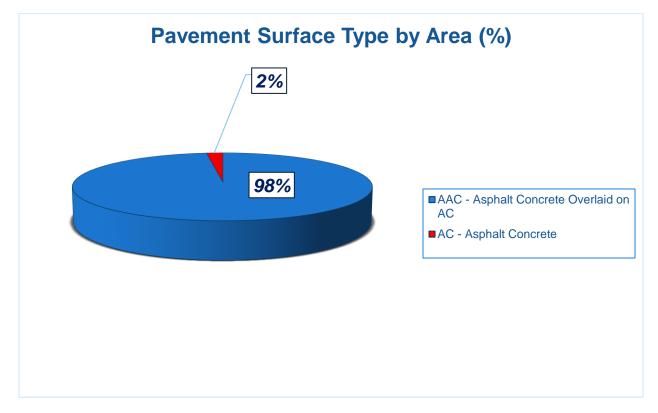


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)



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
OBE	APRON	AP	APRON	4105	388	360	139,680	AAC	12/31/2007
OBE	APRON	AP	APRON	4110	475	110	53,454	AAC	12/31/2007
OBE	RUNWAY 14-32	RW 14-32	RUNWAY	6205	3750	75	281,325	AAC	1/1/2003
OBE	RUNWAY 14-32	RW 14-32	RUNWAY	6210	150	75	11,325	AAC	3/15/2011
OBE	RUNWAY 5-23	RW 5-23	RUNWAY	6105	5000	50	250,000	AAC	7/31/2008
OBE	RUNWAY 5-23	RW 5-23	RUNWAY	6107	5000	50	250,000	AAC	7/31/2008
OBE	T-HANGAR TAXILANE	T-HANG	TAXILANE	4205	784	20	17,395	AC	12/25/1999
OBE	TAXIWAY A	TW A	TAXIWAY	105	2000	35	75,503	AAC	3/15/2011
OBE	TAXIWAY A	TW A	TAXIWAY	110	2950	35	104,973	AAC	3/15/2011
OBE	TAXIWAY A	TW A	TAXIWAY	115	50	35	2,137	AAC	1/1/1998
OBE	TAXIWAY A	TW A	TAXIWAY	130	25	50	1,391	AC	1/1/1998
OBE	TAXIWAY A2	TW A2	TAXIWAY	117	450	35	17,464	AAC	3/15/2011
OBE	TAXIWAY A3	TW A3	TAXIWAY	120	450	35	17,791	AAC	3/15/2011
OBE	TAXIWAY B	TW B	TAXIWAY	205	4200	35	151,420	AAC	1/1/1991
OBE	TAXIWAY B	TW B	TAXIWAY	210	215	35	9,422	AAC	3/15/2011
OBE	TAXIWAY C	TW C	TAXIWAY	305	650	35	31,940	AAC	3/15/2011
OBE	TAXIWAY D	TW D	TAXIWAY	405	350	35	14,810	AC	1/1/1991
OBE	TAXIWAY D	TW D	TAXIWAY	410	110	35	5,148	AAC	3/15/2011





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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.

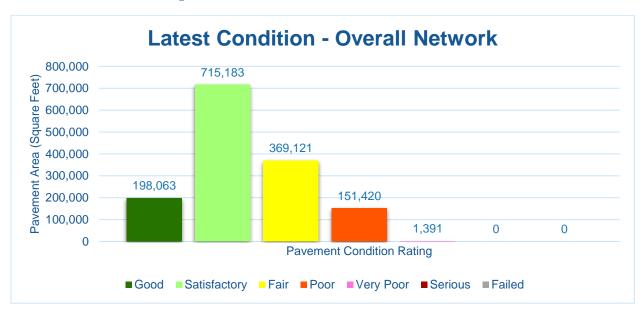


Figure 4.1.1 Latest Condition - Overall Network

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.

Airport Pavement

Evaluation Report





Figure 4.1.2 (a) Latest Condition - Runway Pavements

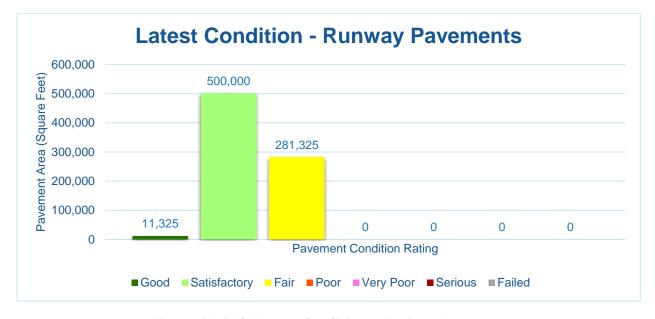


Figure 4.1.2 (b) Latest Condition - Taxiway Pavements

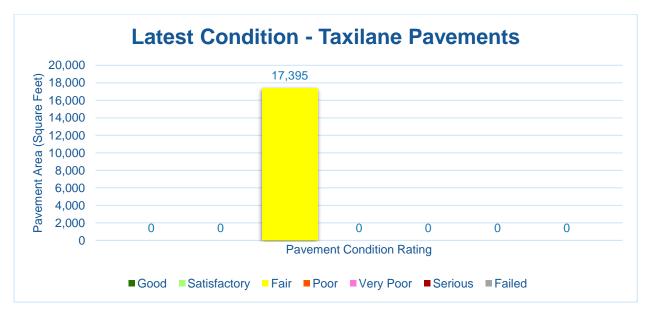




Figure 4.1.2 (c) Latest Condition - Apron Pavements



Figure 4.1.2 (d) Latest Condition - Taxilane 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.

2017

Okeechobee County Airport (OBE)





Table 4.1.3 Latest Pavement Condition Index Summary

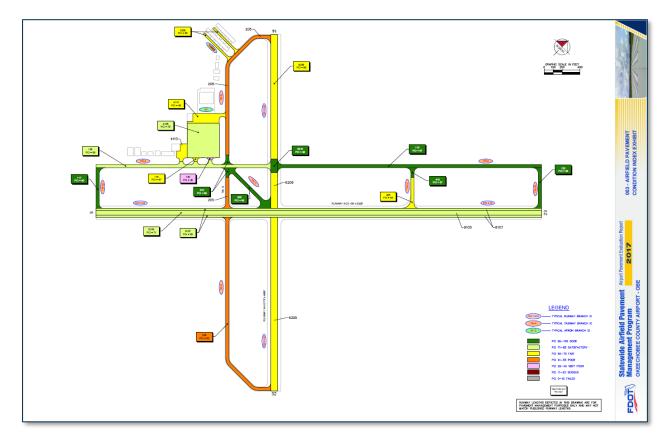
Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI Pct Climate	PCI Pct Load	PCI Pct Other	Sample Units Inspected	Total Sample Units in Section
OBE	AP	APRON	APRON	4105	139,680	AAC	79	Satisfactory	81%	0%	19%	5	28
OBE	AP	APRON	APRON	4110	53,454	AAC	65	Fair	70%	0%	30%	2	11
OBE	RW 14-32	RUNWAY 14-32	RUNWAY	6205	281,325	AAC	56	Fair	75%	0%	25%	16	75
OBE	RW 14-32	RUNWAY 14-32	RUNWAY	6210	11,325	AAC	92	Good	100%	0%	0%	1	3
OBE	RW 5-23	RUNWAY 5-23	RUNWAY	6105	250,000	AAC	71	Satisfactory	98%	0%	2%	8	50
OBE	RW 5-23	RUNWAY 5-23	RUNWAY	6107	250,000	AAC	85	Satisfactory	95%	0%	5%	8	50
OBE	T-HANG	T-HANGAR TAXILANE	TAXILANE	4205	17,395	AC	65	Fair	100%	0%	0%	1	4
OBE	TW A	TAXIWAY A	TAXIWAY	105	75,503	AAC	85	Satisfactory	80%	0%	20%	3	20
OBE	TW A	TAXIWAY A	TAXIWAY	110	104,973	AAC	87	Good	100%	0%	0%	4	30
OBE	TW A	TAXIWAY A	TAXIWAY	115	2,137	AAC	67	Fair	78%	0%	22%	1	1
OBE	TW A	TAXIWAY A	TAXIWAY	130	1,391	AC	40	Very Poor	48%	0%	52%	1	1
OBE	TW A2	TAXIWAY A2	TAXIWAY	117	17,464	AAC	90	Good	100%	0%	0%	1	5
OBE	TW A3	TAXIWAY A3	TAXIWAY	120	17,791	AAC	88	Good	100%	0%	0%	1	4
OBE	TW B	TAXIWAY B	TAXIWAY	205	151,420	AAC	52	Poor	78%	0%	22%	5	41
OBE	TW B	TAXIWAY B	TAXIWAY	210	9,422	AAC	89	Good	100%	0%	0%	1	2
OBE	TW C	TAXIWAY C	TAXIWAY	305	31,940	AAC	88	Good	100%	0%	0%	2	8
OBE	TW D	TAXIWAY D	TAXIWAY	405	14,810	AC	64	Fair	100%	0%	0%	1	4
OBE	TW D	TAXIWAY D	TAXIWAY	410	5,148	AAC	87	Good	100%	0%	0%	1	1





Figure 4.1.3 is an inset view of the 2017 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 2017 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 Okeechobee County Airport (OBE) was started and completed on 04/06/2017. The resulting overall average area-weighted PCI value was 71 representing a condition rating of Satisfactory. Okeechobee County Airport consists of two intersecting runways; Runway 05-23 is 100-ft wide and 5,000-ft long, Runway 14-32 is 75-ft wide and 4,001-ft long.

Based on the FAA 5010 Report as of 07/25/2017 the Airport has reported 50,000 operations for 12 months ending 08/18/2016.

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 samplelevel may be referenced for all pavements assessed as part of this System Update. The branchlevel observations discussed are limited to select branches based on use and condition.

Runway 05-23

Runway 05-23 consists of 2 sections constructed of AAC. The last construction year for Runway 05-23 was 2008. The average area-weighted PCI for Runway 05-23 is 78 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Runway 05-23 consist of Longitudinal & Transverse Cracking, Patching, Raveling, Swelling, and Weathering.

Runway 14-32

Runway 14-32 consists of 2 sections constructed of AAC. The last construction years range from 2003 to 2011. The average area-weighted PCI for Runway 14-32 is 57 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Runway 14-32 consist of Block Cracking, Depression, Longitudinal & Transverse Cracking, Raveling, Swelling, and Weathering.

Taxiway B

Taxiway B consists of 2 sections constructed of AAC. The last construction years range from 1991 to 2011. The average area-weighted PCI for Taxiway B is 54 representing a Poor condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in Taxiway B consist of Block Cracking, Longitudinal & Transverse Cracking, Raveling, Swelling, and Weathering.

Apron

The Apron consists of 2 sections constructed of AAC. The last construction year for the Apron was 2007. The average area-weighted PCI for the Apron is 75 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed in the Apron consist of Block Cracking, Depression, Longitudinal & Transverse Cracking, Oil Spillage, Raveling, Swelling, and Weathering.



Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Average Area-Weighted PCI	Condition Rating
Runway	70	Fair
Taxiway	73	Satisfactory
Apron	75	Satisfactory
Taxilane	65	Fair

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 developed 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 2018 through January 2027.

Figure 4.3.2 (a) Forecasted Runway Pavement Performance

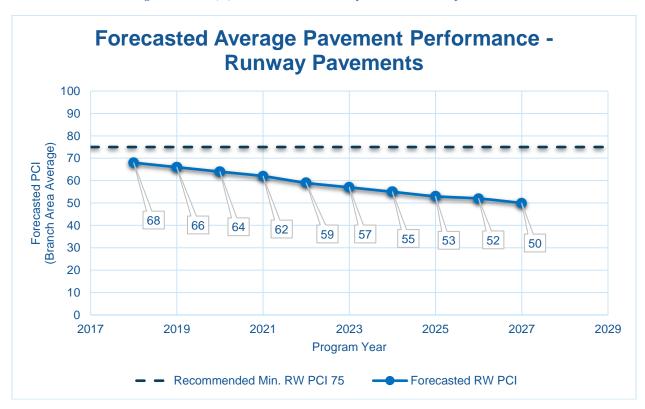






Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance

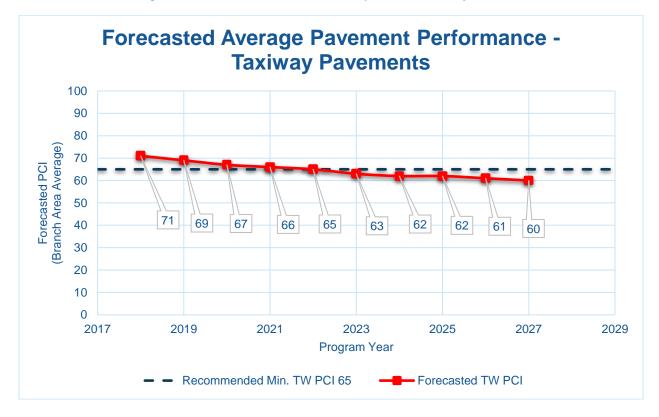
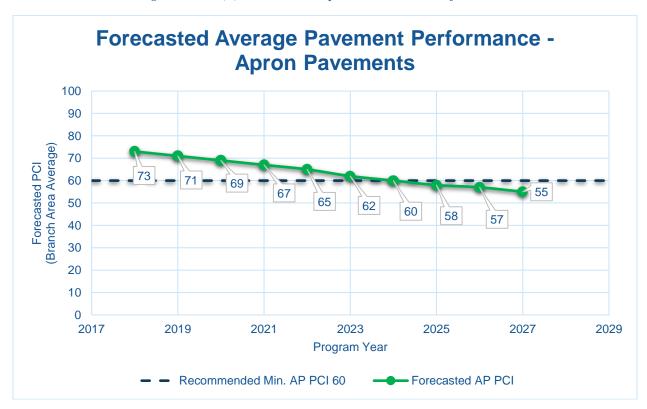


Figure 4.3.2 (c) Forecasted Apron Pavement Performance







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 2018-2027

National ID	Down all ID	Ozatian ID	L (BOL					Forecas	sted PCI				
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
OBE	AP	4105	79	77	76	73	71	68	66	63	61	58	56
OBE	AP	4110	65	63	60	58	56	55	53	53	52	52	52
OBE	RW 14-32	6205	56	54	52	49	46	43	40	36	33	31	29
OBE	RW 14-32	6210	92	90	88	85	83	80	78	75	73	71	69
OBE	RW 5-23	6105	71	69	67	65	64	63	62	61	61	60	60
OBE	RW 5-23	6107	85	83	80	78	75	73	71	69	67	65	64
OBE	T-HANG	4205	65	64	63	62	61	60	59	58	57	56	54
OBE	TW A	105	85	83	81	79	77	75	74	73	72	71	70
OBE	TW A	110	87	85	82	80	78	77	75	74	73	72	71
OBE	TW A	115	67	66	64	63	62	60	59	57	55	53	52
OBE	TW A	130	40	38	37	36	34	33	32	31	31	30	29
OBE	TW A2	117	90	87	85	82	80	78	77	75	74	73	72
OBE	TW A3	120	88	86	83	81	79	77	76	74	73	72	71
OBE	TW B	205	52	50	49	47	46	45	44	44	43	43	43
OBE	TW B	210	89	86	84	82	80	78	76	75	74	73	72
OBE	TW C	305	88	86	83	81	79	77	76	74	73	72	71
OBE	TW D	405	64	63	62	61	60	59	58	57	55	54	53
OBE	TW D	410	87	85	82	80	78	77	75	74	73	72	71





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 includes surface seals and rejuvenators (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 distress 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 5.2.1 and Table 5.2.2, 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 5.2-1 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	High	JET BLAST	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL 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&TCR	FDOT-MO-PV	FDOT - MONITOR	N/A
48	Medium	L&TCR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
48	High	L&TCR	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 5.2-2 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 5.2-3 (a) 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-GR-PP FDOT - GRINDING (LOCALIZED)		Ft
FDOT-CS-AC	FDOT-CS-AC FDOT - CRACK SEALING - AC		Ft
FDOT-MO-PV	FDOT-MO-PV FDOT - MONITOR		SqFt
FDOT-PA-AF	FDOT-PA-AF FDOT - PATCHING - AC FULL DEPTH		SqFt
FDOT-PA-AP	FDOT-PA-AP FDOT - PATCHING - AC PARTIAL DEPTH		SqFt

Table 5.2-3 (b) Localized M&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.

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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 nearterm Major Rehabilitation efforts may remove the need to perform localized maintenance efforts.

The following Table 5.3-1 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 5.3-1 Summary of Airport Localized M&R Planning Cost and Quantity at Network Level

Work Description	Work Category	Rough Estimate of Work Quantity	Work Units	Planı	ning Material Cost
FDOT - SURFACE SEAL	PREVENTIVE	20,575	SqFt	\$	11,320.00
FDOT - CRACK SEALING - AC	PREVENTIVE	1,035	Ft	\$	3,100.00
FDOT - PATCHING - AC FULL DEPTH	PREVENTIVE	1,175	SqFt	\$	7,050.00
FDOT - PATCHING - AC PARTIAL DEPTH	PREVENTIVE	435	SqFt	\$	1,300.00
FDOT - SURFACE SEAL	STOPGAP	213,195	SqFt	\$	117,260.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	2,335	SqFt	\$	14,010.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	895	SqFt	\$	2,680.00
FDOT - CRACK SEALING - AC	STOPGAP	4,445	Ft	\$	13,330.00

The following Table 5.3-2 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 5.3-2 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
OBE	AP	4105	139,680	79	80	\$ 3,320.00
OBE	AP	4110	53,454	65	72	\$ 16,060.00
OBE	RW 14-32	6205	281,325	56	64	\$ 59,640.00
OBE	RW 14-32	6210	11,325	92	92	\$ -
OBE	RW 5-23	6105	250,000	71	77	\$ 14,470.00
OBE	RW 5-23	6107	250,000	85	87	\$ 2,010.00
OBE	T-HANG	4205	17,395	65	90	\$ 9,390.00
OBE	TW A	105	75,503	85	86	\$ 2,750.00
OBE	TW A	110	104,973	87	87	\$ -
OBE	TW A	115	2,137	67	72	\$ 240.00
OBE	TW A	130	1,391	40	66	\$ 2,580.00
OBE	TW A2	117	17,464	90	90	\$ -
OBE	TW A3	120	17,791	88	88	\$ -
OBE	TW B	205	151,420	52	61	\$ 50,480.00
OBE	TW B	210	9,422	89	89	\$ -
OBE	TW C	305	31,940	88	88	\$ -
OBE	TW D	405	14,810	64	84	\$ 9,190.00
OBE	TW D	410	5,148	87	87	\$ -

The following Table 5.3-3 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 5.3-3 Summary of Localized Maintenance

Work Category	Cost		
Preventive	\$	22,770.00	
Stopgap	\$	147,280.00	
Planning-Level Localized M&R Needs =	\$	170,050.00	





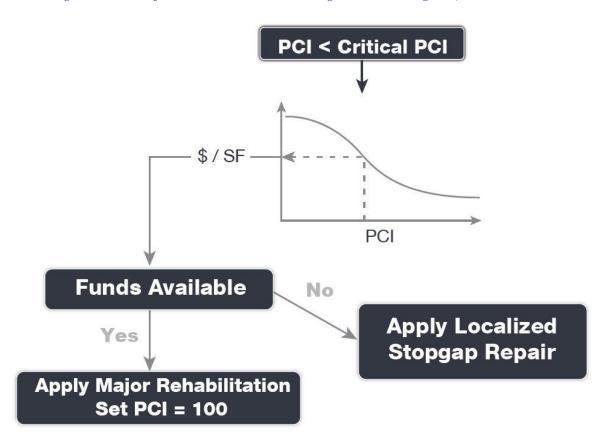


Chapter 6 – Major Rehabilitation **Planning**

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 6.1-1 and 6.1-2 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 6.1-1 Major Rehabilitation Planning Decision Diagram, PCI ≤ Critical PCI



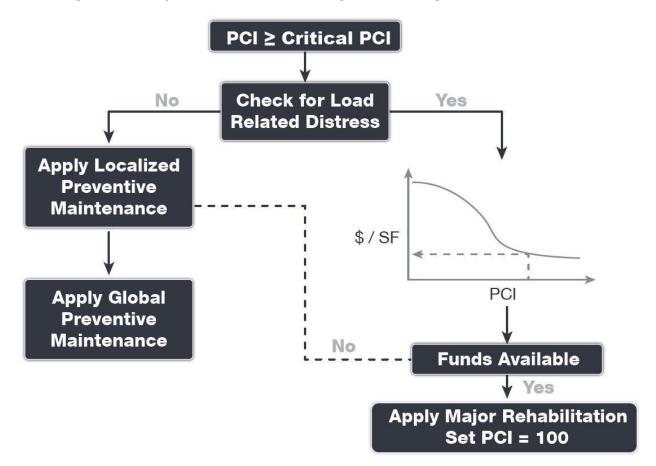
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Figure 6.1-2 Major Rehabilitation Planning Decision Diagram, PCI > Critical PCI





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





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

Rehabilitation Type	General Aviation (GA) Airport
PCC Restoration Restoration of PCC pavement with a combination of crack sealing, joint seal replacement, and replacement of 25% of slab panels. PCI = 41 to 65	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
PCC Reconstruction Full-depth rigid pavement section reconstruction. PCI = 40 or less	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.

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	e Asphalt 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.



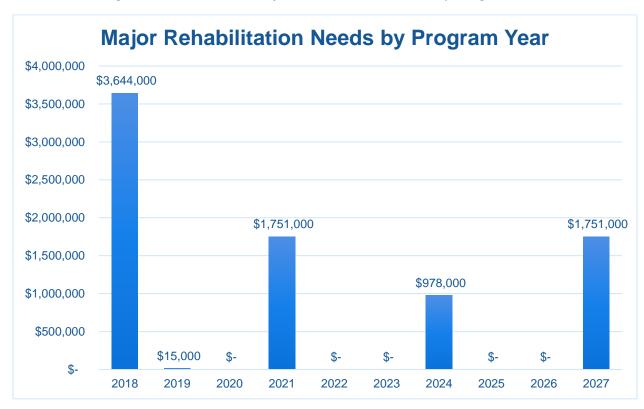
Table 6.3.1 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	OBE	AP	4110	AAC	53,454	63	AC Restoration	\$ 375,000.00
2018	OBE	RW 14-32	6205	AAC	281,325	54	AC Restoration	\$ 1,970,000.00
2018	OBE	T-HANG	4205	AC	17,395	64	AC Restoration	\$ 122,000.00
2018	OBE	TW A	130	AC	1,391	38	AC Reconstruction	\$ 13,000.00
2018	OBE	TW B	205	AAC	151,420	50	AC Restoration	\$ 1,060,000.00
2018	OBE	TW D	405	AC	14,810	63	AC Restoration	\$ 104,000.00
2019	OBE	TW A	115	AAC	2,137	64	AC Restoration	\$ 15,000.00
2021	OBE	RW 5-23	6105	AAC	250,000	64	AC Restoration	\$ 1,751,000.00
2024	OBE	AP	4105	AAC	139,680	63	AC Restoration	\$ 978,000.00
2027	OBE	RW 5-23	6107	AAC	250,000	64	AC Restoration	\$ 1,751,000.00

^{*}All values have been rounded to the nearest thousand-dollar.

The following Figure 6.3.1-1 summarizes the section-level major rehabilitation needs for a 10year period between 2018 and 2027. Figure 6.3.1-2 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 6.3.1-1 10-Year Major Rehabilitation Needs by Program Year

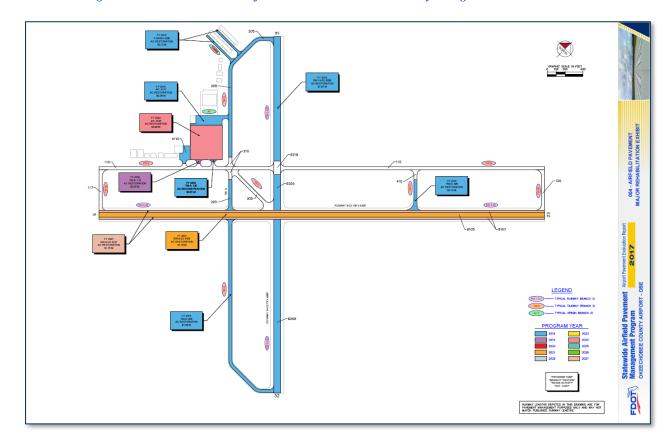


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Figure 6.3.1-2 10-Year Major Rehabilitation Needs by Program Year Exhibit





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 reinspection 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 2018-2027. 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 in 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.

Statewide Airfield Pavement Management Program

Airport Pavement **Evaluation Report**

2017

Okeechobee County Airport (OBE)





7.3 Conclusion

The FDOT SAPMP Update Phase 1 2016-2017 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

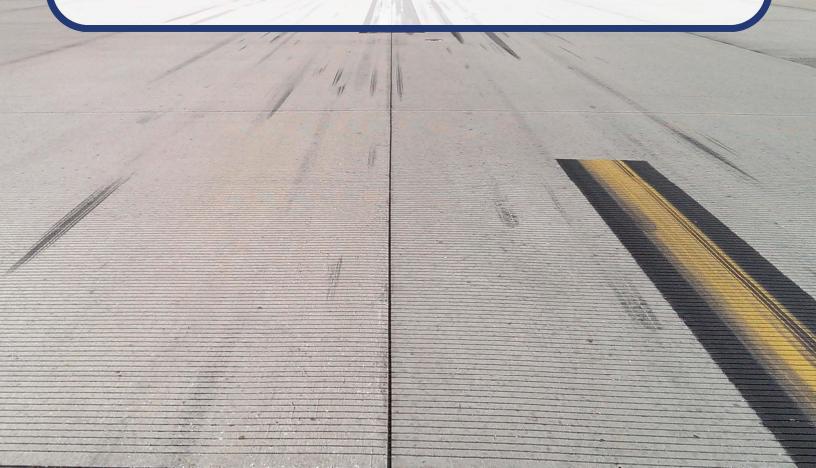






Table A-1 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
OBE	APRON	AP	APRON	4105	388	360	139,680	AAC	12/31/2007
OBE	APRON	AP	APRON	4110	475	110	53,454	AAC	12/31/2007
OBE	RUNWAY 14-32	RW 14-32	RUNWAY	6205	3750	75	281,325	AAC	1/1/2003
OBE	RUNWAY 14-32	RW 14-32	RUNWAY	6210	150	75	11,325	AAC	3/15/2011
OBE	RUNWAY 5-23	RW 5-23	RUNWAY	6105	5000	50	250,000	AAC	7/31/2008
OBE	RUNWAY 5-23	RW 5-23	RUNWAY	6107	5000	50	250,000	AAC	7/31/2008
OBE	T-HANGAR TAXILANE	T-HANG	TAXILANE	4205	784	20	17,395	AC	12/25/1999
OBE	TAXIWAY A	TW A	TAXIWAY	105	2000	35	75,503	AAC	3/15/2011
OBE	TAXIWAY A	TW A	TAXIWAY	110	2950	35	104,973	AAC	3/15/2011
OBE	TAXIWAY A	TW A	TAXIWAY	115	50	35	2,137	AAC	1/1/1998
OBE	TAXIWAY A	TW A	TAXIWAY	130	25	50	1,391	AC	1/1/1998
OBE	TAXIWAY A2	TW A2	TAXIWAY	117	450	35	17,464	AAC	3/15/2011
OBE	TAXIWAY A3	TW A3	TAXIWAY	120	450	35	17,791	AAC	3/15/2011
OBE	TAXIWAY B	TW B	TAXIWAY	205	4200	35	151,420	AAC	1/1/1991
OBE	TAXIWAY B	TW B	TAXIWAY	210	215	35	9,422	AAC	3/15/2011
OBE	TAXIWAY C	TW C	TAXIWAY	305	650	35	31,940 AAC	AAC	3/15/2011
OBE	TAXIWAY D	TW D	TAXIWAY	405	350	35	14,810	AC	1/1/1991
OBE	TAXIWAY D	TW D	TAXIWAY	410	110	35	5,148	AAC	3/15/2011



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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating	
OBE	RUNWAY 5-23	RUNWAY	6105	250,000	71	Satisfactory	
OBE	RUNWAY 5-23	RUNWAY	6107	250,000	85	Satisfactory	
OBE	RUNWAY 14-32	RUNWAY	6205	281,325	56	Fair	
OBE	RUNWAY 14-32	RUNWAY	6210	11,325	92	Good	
OBE	TAXIWAY A	TAXIWAY	105	75,503	85	Satisfactory	
OBE	TAXIWAY A	TAXIWAY	110	104,973	87	Good	
OBE	TAXIWAY A	TAXIWAY	115	2,137	67	Fair	
OBE	TAXIWAY A	TAXIWAY	130	1,391	40	Very Poor	
OBE	TAXIWAY A2	TAXIWAY	117	17,464	90	Good	
OBE	TAXIWAY A3	TAXIWAY	120	17,791	88	Good	
OBE	TAXIWAY B	TAXIWAY	205	151,420	52	Poor	
OBE	TAXIWAY B	TAXIWAY	210	9,422	89	Good	
OBE	TAXIWAY C	TAXIWAY	305	31,940	88	Good	
OBE	TAXIWAY D	TAXIWAY	405	14,810	64	Fair	
OBE	TAXIWAY D	TAXIWAY	410	5,148	87	Good	
OBE	T-HANGAR TAXILANE	TAXILANE	4205	17,395	65	Fair	
OBE	APRON	APRON	4105	139,680	79	Satisfactory	
OBE	APRON	APRON	4110	53,454	65	Fair	





Table A-3 Forecasted PCI 2018-2027

Natura de ID	Dranah ID	Coation ID	Last DCI					Forecas	sted PC	I			
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
OBE	AP	4105	79	77	76	73	71	68	66	63	61	58	56
OBE	AP	4110	65	63	60	58	56	55	53	53	52	52	52
OBE	RW 14-32	6205	56	54	52	49	46	43	40	36	33	31	29
OBE	RW 14-32	4-32 6210	92	90	88	85	83	80	78	75	73	71	69
OBE	RW 5-23	6105	71	69	67	65	64	63	62	61	61	60	60
OBE	RW 5-23	6107	85	83	80	78	75	73	71	69	67	65	64
OBE	T-HANG	4205	65	64	63	62	61	60	59	58	57	56	54
OBE	TW A	105	85	83	81	79	77	75	74	73	72	71	70
OBE	TW A	110	87	85	82	80	78	77	75	74	73	72	71
OBE	TW A	115	67	66	64	63	62	60	59	57	55	53	52
OBE	TW A	130	40	38	37	36	34	33	32	31	31	30	29
OBE	TW A2	117	90	87	85	82	80	78	77	75	74	73	72
OBE	TW A3	120	88	86	83	81	79	77	76	74	73	72	71
OBE	TW B	205	52	50	49	47	46	45	44	44	43	43	43
OBE	TW B	210	89	86	84	82	80	78	76	75	74	73	72
OBE	TW C	305	88	86	83	81	79	77	76	74	73	72	71
OBE	TW D	405	64	63	62	61	60	59	58	57	55	54	53
OBE	TW D	410	87	85	82	80	78	77	75	74	73	72	71

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Pavement Database: FDOT

Network:	Network: OKEECHOBEE COU			A	APRO	N	Section	: 4105 Surface: AAC		
L.C.D.: 12/31	/200 Us	e: APRON	Rank: P	Length:	600.	.00 (Ft) Wi	dth: 230.	00 (Ft) True Area:	139,680.00 (SqFt)	
Work Date	Work Code	Work 1	Work Description		it	Thickness (in)	Major M&R	Comments		
12/31/2007	ML-OV	MILL and OV	ERLAY		0.00	0.00	V	2007: 2" MILL AND	0 4" P-401 SP OVE	
1/1/1998	IMPORT ED	OVERLAY			0.00	0.00		SOIL: SM		
1/1/1988	IMPORT ED	BUILT			0.00	2.00		1988: 2" P-401 ON 6	5" P-211	

Network:	Network: OKEECHOBEE COU				APRO	N	Section:	Surface: AAC	
L.C.D.: 12/31	1/200 Us	e: APRON	Rank: P	Len	ngth: 250.	.00 (Ft) Wi	dth: 200.	00 (Ft) True Area:	53,454.00 (SqFt)
Work Date	Work Code	Work l	Description		Cost	Thickness (in)	Major M&R	Com	nents
12/31/2007	ML-OV	MILL and OV	ERLAY		0.00	1.50	V	2007: MILL 1.5" AN	ND 1.5" P-401 SP O
1/1/1998	IMPORT ED	BUILT			0.00	0.00		ESTIMATE 1998 A	C PAVEMENT

 Network:
 OKEECHOBEE COU
 Branch:
 RW 14-32
 RUNWAY 14-32
 Section:
 6205
 Surface:
 AAC

 L.C.D.:
 1/1/2003
 Use:
 RUNWAY
 Rank:
 S
 Length:
 3,750.00 (Ft)
 Width:
 75.00 (Ft)
 True Area:
 281,325.00 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2003	ML-OL	Mill and Overlay	0.00	0.00	V	
1/1/1983	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SM
1/1/1983	IMPORT ED	OVERLAY	0.00	1.50		1983: 1.5" P-401 OVERLAY
1/1/1943	IMPORT ED	BUILT	0.00	2.00	V	1943: 2" BIT. SURFACE ON 8" BITUMINOUS STABILIZED BASE

 Network:
 OKEECHOBEE COU
 Branch:
 RW 14-32
 RUNWAY 14-32
 Section:
 6210
 Surface:
 AAC

 L.C.D.:
 3/15/2011
 Use:
 RUNWAY
 Rank:
 S
 Length:
 150.00 (Ft)
 Width:
 75.00 (Ft)
 True Area:
 11,325.00 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
3/15/2011	ML-OV	MILL and OVERLAY	0.00	0.00	V	2011:2" MILL AND 4" P-401 SP OVER
1/1/2003	ML-OV	MILL and OVERLAY	0.00	0.00	V	
1/1/1983	OL-MR	Overlay	0.00	0.00	V	1983: 1.5" P-401 OVERLAY
1/1/1983	OL-MR	Overlay	0.00	0.00		SOIL: SM
1/1/1943	NU-IN	New Construction - Initial	0.00	0.00	~	1943: 2" BIT. SURFACE ON 8" BITU

 Network:
 OKEECHOBEE COU
 Branch:
 RW 5-23
 RUNWAY 5-23
 Section:
 6105
 Surface:
 AAC

 L.C.D.:
 7/31/2008
 Use:
 RUNWAY
 Rank:
 T
 Length:
 2,500.00 (Ft)
 Width:
 100.00 (Ft)
 True Area:
 250,000.00 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/31/2008	ML-OL	Mill and Overlay	0.00	1.50	<	2008: MILL 1.5" AND 1.5" P-401 OVE
1/1/1982	IMPORT ED	OVERLAY	0.00	0.00	V	SOIL: SM
1/1/1982	IMPORT ED	OVERLAY	0.00	1.50		1982: 1.5" P-401 OVERLAY
1/1/1943	IMPORT ED	BUILT	0.00	2.00		1943: 2" AC ON 8" BITUMINOUS TREATED BASE

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Pavement Database: FDOT

network:	OKEECH	OBEE COU Branch: RW 5-	23 RUNV	VAY 5-23	Section:	6107 Surface: AAC
L.C.D.: 7/31/	2008 Us	se: RUNWAY Rank: T	ength: 2,500	.00 (Ft) Wi	dth: 100.	00 (Ft) True Area: 250,000.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/31/2008		MILL and OVERLAY	0.00	0.00	VICE	2008: MILL 1.5" AND 1.5" P-401 OVE
1/1/1982	OL-MR	Overlay	0.00	0.00		1982: 1.5" P-401 OVERLAY
1/1/1982	OL-MR	Overlay	0.00	0.00		SOIL: SM
1/1/1943	NU-IN	New Construction - Initial	0.00	0.00		1943: 2" AC ON 8"
Network: OKEECHOBEE COU Branch: T-HANG T-HANGAR TAX Section: 4205 Surface: AC						
L.C.D.: 12/25	5/199 U s	se: TAXILAN Rank: P L	ength: 450	.00 (Ft) Wi	dth: 35.	00 (Ft) True Area: 17,395.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	NU-IN	New Construction - Initial	0.00	0.00	>	
	I					
Network:	OKEECH	OBEE COU Branch: TW A	TAXI	WAY A	Section:	105 Surface: AAC
L.C.D.: 3/15/	2011 Us	se: TAXIWAY Rank: P L	ength: 2,100	.00 (Ft) Wi	dth: 35.	00 (Ft) True Area: 75,503.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
3/15/2011	ML-OL	Mill and Overlay	0.00	4.00	>	2011: 2" MILL AND 4" P-401 SP OVE
1/1/1985	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SM
1/1/1985	IMPORT ED	OVERLAY	0.00	1.50		1985: 1.5" P-401 OVERLAY
1/1/1943	IMPORT ED	BUILT	0.00	2.00		1943: 2" AC ON 8" LIME ROCK BASE
	OVERGU					
Network:	Network: OKEECHOBEE COU Branch: TW A TAXIWAY A Section: 110 Surface: AAC					
L an . 2/15/						
L.C.D.: 3/15/	2011 Us	se: TAXIWAY Rank: P L	TAXIVength: 2,950	.00 (Ft) Wi	dth: 35.	110 Surface: AAC 00 (Ft) True Area: 104,973.00 (SqFt)
L.C.D.: 3/15/ Work Date						
	2011 Us Work Code ML-OL	work Description Mill and Overlay	Cost 0.00	.00 (Ft) Wi	dth: 35. Major M&R	00 (Ft) True Area: 104,973.00 (SqFt) Comments 2011: 2" MILL AND 4" P-401 SP OVE
Work Date	Work Code ML-OL IMPORT	se: TAXIWAY Rank: P L Work Description	cength: 2,950	.00 (Ft) Wi	dth: 35. Major M&R	00 (Ft) True Area: 104,973.00 (SqFt) Comments
Work Date 3/15/2011	2011 Us Work Code ML-OL	work Description Mill and Overlay OVERLAY	Cost 0.00	Thickness (in)	dth: 35. Major M&R	00 (Ft) True Area: 104,973.00 (SqFt) Comments 2011: 2" MILL AND 4" P-401 SP OVE
Work Date 3/15/2011 1/1/1985 1/1/1943	Work Code ML-OL IMPORT ED IMPORT ED	Work Description Mill and Overlay OVERLAY BUILT	Cost 0.00 0.00 0.00	1.00 (Ft) Wi Thickness (in) 4.00 1.50 2.00	dth: 35. Major M&R	00 (Ft) True Area: 104,973.00 (SqFt) Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE
Work Date 3/15/2011 1/1/1985 1/1/1943	Work Code ML-OL IMPORT ED IMPORT ED	work Description Mill and Overlay OVERLAY	Cost 0.00 0.00 0.00	1.00 (Ft) Wir Thickness (in) 4.00 1.50	dth: 35. Major M&R V Section:	Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE Surface: AAC
Work Date 3/15/2011 1/1/1985 1/1/1943	Work Code ML-OL IMPORT ED IMPORT ED OKEECHO	Work Description Mill and Overlay OVERLAY BUILT DBEE COU Branch: TW A	Cost 0.00 0.00 0.00 TAXIV	.00 (Ft) Wi Thickness (in) 4.00 1.50 2.00 WAY A .00 (Ft) Wi	dth: 35. Major M&R Section: dth: 35.	00 (Ft) True Area: 104,973.00 (SqFt) Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE
Work Date 3/15/2011 1/1/1985 1/1/1943 Network:	Work Code ML-OL IMPORT ED IMPORT ED OKEECHO	Work Description Mill and Overlay OVERLAY BUILT DBEE COU Branch: TW A	Cost 0.00 0.00 0.00 TAXIV	1.00 (Ft) Wi Thickness (in) 4.00 1.50 2.00	dth: 35. Major M&R V Section:	Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE Surface: AAC
Work Date 3/15/2011 1/1/1985 1/1/1943 Network: L.C.D.: 1/1/1	Work Code ML-OL IMPORT ED IMPORT ED OKEECHO 998 Us Work Code IMPORT	Work Description Mill and Overlay OVERLAY BUILT OBEE COU Branch: TW A se: TAXIWAY Rank: P L	Cost 0.00 0.00 TAXIVength: 50	### Consideration of the image	Major M&R V Section: dth: 35.	Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE 115 Surface: AAC 00 (Ft) True Area: 2,137.00 (SqFt)
Work Date 3/15/2011 1/1/1985 1/1/1943 Network: L.C.D.: 1/1/1 Work Date	Work Code ML-OL IMPORT ED IMPORT ED OKEECHO 998 Us Work Code	Work Description Mill and Overlay OVERLAY BUILT DBEE COU Branch: TW A Be: TAXIWAY Rank: P L Work Description OVERLAY	Cost 0.00 0.00 TAXIVength: 50	No (Ft) Wickness	Major M&R Section: dth: 35. Major M&R	Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE 115 Surface: AAC 00 (Ft) True Area: 2,137.00 (SqFt) Comments
Work Date 3/15/2011 1/1/1985 1/1/1943 Network: L.C.D.: 1/1/1 Work Date 1/1/1998 1/1/1988	Work Code ML-OL IMPORT ED IMPORT ED OKEECHO 998 Us Work Code IMPORT ED IMPORT ED	Work Description Mill and Overlay OVERLAY BUILT DBEE COU Branch: TW A se: TAXIWAY Rank: P L Work Description OVERLAY BUILT	Cost 0.00 0.00 TAXIVength: 50 Cost 0.00	No (Ft) Wi	Major M&R Section: dth: 35. Major M&R	Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE 2015 Surface: AAC 200 (Ft) True Area: 2,137.00 (SqFt) Comments 1998 AC OVERLAY 1988 2" P401 ON 6" P211
Work Date 3/15/2011 1/1/1985 1/1/1943 Network: L.C.D.: 1/1/1 Work Date 1/1/1998 1/1/1988	Work Code ML-OL IMPORT ED IMPORT ED OKEECHO 998 Us Work Code IMPORT ED IMPORT ED	Work Description Mill and Overlay OVERLAY BUILT DBEE COU Branch: TW A Be: TAXIWAY Rank: P L Work Description OVERLAY	Cost	### Company of the co	Major M&R Section: Section: Section:	Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE 115 Surface: AAC 00 (Ft) True Area: 2,137.00 (SqFt) Comments 1998 AC OVERLAY 1988 2" P401 ON 6" P211
Work Date 3/15/2011 1/1/1985 1/1/1943 Network: L.C.D.: 1/1/1 Work Date 1/1/1998 1/1/1988	Work Code ML-OL IMPORT ED IMPORT ED OKEECHO 998 Us Work Code IMPORT ED IMPORT ED OKEECHO 998 Us	Work Description Mill and Overlay OVERLAY BUILT DBEE COU Branch: TW A Se: TAXIWAY Rank: P L Work Description OVERLAY BUILT DBEE COU Branch: TW A	Cost	### Windows Windows	section: Major M&R Section: Major M&R Section: dth: 35.	Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE 2015 Surface: AAC 200 (Ft) True Area: 2,137.00 (SqFt) Comments 1998 AC OVERLAY 1988 2" P401 ON 6" P211
Work Date 3/15/2011 1/1/1985 1/1/1943 Network: L.C.D.: 1/1/1 Work Date 1/1/1998 1/1/1988	Work Code ML-OL IMPORT ED IMPORT ED OKEECHO 998 Us Work Code IMPORT ED IMPORT ED OKEECHO 998 Us Work Code Work Code	Work Description Mill and Overlay OVERLAY BUILT DBEE COU Branch: TW A Se: TAXIWAY Rank: P L Work Description OVERLAY BUILT DBEE COU Branch: TW A	Cost	### Company of the co	Major M&R Section: Section: Section:	Comments 2011: 2" MILL AND 4" P-401 SP OVE 1985 1.5" P401 SURFACE COURSE 1943: 2" AC ON 8" LIME ROCK BASE 115 Surface: AAC 00 (Ft) True Area: 2,137.00 (SqFt) Comments 1998 AC OVERLAY 1988 2" P401 ON 6" P211

Pavement Management System PAVER 7.0 TM

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Pavement Database: FDOT

Network:	OKEECHO	OBEE COU Branch: TW A2	TAXIV	WAY A2	Section:	117 Surface: AAC
L.C.D.: 3/15/	2011 Us	se: TAXIWAY Rank: P L	ength: 450	.00 (Ft) Wie	dth: 35.	00 (Ft) True Area: 17,464.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
3/15/2011	ML-OL	Mill and Overlay	0.00	4.00	V	2011: 2" MILL AND 4" P-401 SP OVE
1/1/1985	IMPORT ED	OVERLAY	0.00	1.50		1985: 1.5" P-401 OVERLAY
1/1/1985	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SM
1/1/1943	IMPORT ED	BUILT	0.00	2.00		1943: 2" AC ON 8" LIME ROCK BASE

Network: OKEECHOBEE COU Branch: TW A3 TAXIWAY A3 Section: 120 Surface: AAC

L.C.D.: 3/15/2011 Use: TAXIWAY Rank: P Length: 500.00 (Ft) Width: 35.00 (Ft) True Area: 17,791.00 (SqFt)

Work Date Work Work Description Cost Thickness Major M&R

Code Code Comments

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
3/15/2011	ML-OL	Mill and Overlay	0.00	4.00	>	2011: 2" MILL AND 4" P-401 SP OVE
1/1/1985	IMPORT ED	OVERLAY	0.00	1.50		1985 1.5" P401 SURFACE COURSE
1/1/1943	IMPORT ED	BUILT	0.00	2.00		1943: 2" AC ON 8" LIME ROCK BASE

 Network:
 OKEECHOBEE COU
 Branch:
 TW B
 TAXIWAY B
 Section:
 205
 Surface:
 AAC

 L.C.D.:
 1/1/1991
 Use:
 TAXIWAY
 Rank:
 P
 Length:
 4,155.00 (Ft)
 Width:
 35.00 (Ft)
 True Area:
 151,420.00 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1991	ML-OV	MILL and OVERLAY	0.00	0.00	V	Estimated Construction Date
1/1/1943	IMPORT ED	OVERLAY	0.00	0.00	V	SOIL: SM
1/1/1943	IMPORT ED	BUILT	0.00	2.00	V	1943: 2" AC ON 8" BITUMINOUS TREATED BASE

Network: OKEECHOBEE COU Branch: TWB TAXIWAY B Section: 210 Surface: AAC L.C.D.: 3/15/2011 Use: TAXIWAY Rank: P Length: 135.00 (Ft) Width: 35.00 (Ft) True Area: 9,422.00 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
3/15/2011	ML-OL	Mill and Overlay	0.00	4.00	V	2011: 2" MILL AND 4" P-401 SP OVE
1/1/1943	NU-IN	New Construction - Initial	0.00	0.00		

Network: OKEECHOBEE COU Branch: TW C TAXIWAY C Section: 305 Surface: AAC

L.C.D.: 3/15/2011 Use: TAXIWAY Rank: P Length: 610.00 (Ft) Width: 35.00 (Ft) True Area: 31.940.00 (SqFt)

L.C.D.: 3/15/201	1 Us	e: TAXIWAY Rank: P L	ength: 610	.00 (Ft) Wi	dth: 35.	00 (Ft) True Area: 31,940.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
3/15/2011 M	IL-OV	MILL and OVERLAY	0.00	4.00	V	2011: 2" MILL AND 4" P-401 SP OVE
1/1/1943 IM	IPORT ED	OVERLAY	0.00	0.00		SOIL: SM

IMPORT BUILT

1/1/1943

ED

0.00

2.00

V

1943: 2" AC ON 8" LIME ROCK BASE

7/26/2017	Work History Report	Page 4 of 5
	Pavement Database: FDOT	

Network: L.C.D.: 1/1/1		OBEE COU	Branch: TW D		WAY D .00 (Ft) Wi	Section:	405 00 (Ft) True Area:	Surface: AC 14,810.00 (SqFt)
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comi	nents
1/1/1993	IMPORT ED	REPAIR		0.00	0.00		THIS PAVEMENT 2 YEARS OLD DUI	
1/1/1991	IMPORT ED	BUILT		0.00	2.00		1991: 2" P-401 ON (5" P-211
1/1/1991	IMPORT ED	OVERLAY		0.00	0.00		SOIL: SM	

Network: L.C.D.: 3/15/		DBEE COU Branch: TW D		WAY D .00 (Ft) Wie	Section:	410 00 (Ft) True Area:	Surface: AAC 5,148.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Com	nents
3/15/2011	ML-OL	Mill and Overlay	0.00	2.00	<	2011: 2" MILL AND	0 4" P-401-SP OVE
1/1/1991	NU-IN	New Construction - Initial	0.00	0.00			

Page 5 of 5

Pavement Database: FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	12	1,140,497.00	1.83	0.55
MILL and OVERLAY	15	1,410,770.00	1.93	1.80
New Construction - AC	1	1,391.00	0.00	0.00
New Construction - Initial	5	293,290.00	0.00	0.00
OVERLAY	19	2,233,985.00	0.47	0.70
REPAIR	1	14,810.00	0.00	0.00

7/26/2017	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	2	850.00	215.00	193,134.00	APRON	72.00	7.00	75.13
RW 14-32	2	3,900.00	75.00	292,650.00	RUNWAY	74.00	18.00	57.39
RW 5-23	2	5,000.00	100.00	500,000.00	RUNWAY	78.00	7.00	78.00
T-HANG	1	450.00	35.00	17,395.00	TAXILANE	65.00	0.00	65.00
TW A	4	5,125.00	38.75	184,004.00	TAXIWAY	69.75	18.86	85.59
TW A2	1	450.00	35.00	17,464.00	TAXIWAY	90.00	0.00	90.00
TW A3	1	500.00	35.00	17,791.00	TAXIWAY	88.00	0.00	88.00
TW B	2	4,290.00	35.00	160,842.00	TAXIWAY	70.50	18.50	54.17
TW C	1	610.00	35.00	31,940.00	TAXIWAY	88.00	0.00	88.00
TW D	2	430.00	35.00	19,958.00	TAXIWAY	75.50	11.50	69.93

7/26/2017	Branch Condition Report	Page 2 of 2
	Pavement Database: FDOT	

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI
APRON	2	193134.000059037	72.00	7.00	75.13
RUNWAY	4	792650.000242295	76.00	13.80	70.39
TAXILANE	1	17395.0000053172	65.00	0.00	65.00
TAXIWAY	11	431999.000067022	76.09	16.71	73.62
ALL	18	1435178.00037367	75.00	15.03	71.94

Pavement Database: FDOT

NetworkId: OBE

Favemeni Daia	buse. I DOI		Networkia: OBE							
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspec tion	
AP	4105	12/31/2007	AAC	APRON	Р	0	139,680.00	4/6/2017	10	79
AP	4110	12/31/2007	AAC	APRON	Р	0	53,454.00	4/6/2017	10	65
RW 14-32	6205	1/1/2003	AAC	RUNWAY	S	0	281,325.00	4/6/2017	14	56
RW 14-32	6210	3/15/2011	AAC	RUNWAY	S	0	11,325.00	4/6/2017	6	92
RW 5-23	6105	7/31/2008	AAC	RUNWAY	Т	0	250,000.00	4/6/2017	9	71
RW 5-23	6107	7/31/2008	AAC	RUNWAY	T	0	250,000.00	4/6/2017	9	85
T-HANG	4205	12/25/1999	AC	TAXILANE	Р	0	17,395.00	4/6/2017	18	65
TW A	105	3/15/2011	AAC	TAXIWAY	Р	0	75,503.00	4/6/2017	6	85
TW A	110	3/15/2011	AAC	TAXIWAY	Р	0	104,973.00	4/6/2017	6	87
TW A	115	1/1/1998	AAC	TAXIWAY	Р	0	2,137.00	4/6/2017	19	67
TW A	130	1/1/1998	AC	TAXIWAY	Т	0	1,391.00	4/6/2017	19	40
TW A2	117	3/15/2011	AAC	TAXIWAY	Р	0	17,464.00	4/6/2017	6	90
TW A3	120	3/15/2011	AAC	TAXIWAY	Р	0	17,791.00	4/6/2017	6	88
TW B	205	1/1/1991	AAC	TAXIWAY	Р	0	151,420.00	4/6/2017	26	52
TW B	210	3/15/2011	AAC	TAXIWAY	Р	0	9,422.00	4/6/2017	6	89
TW C	305	3/15/2011	AAC	TAXIWAY	Р	0	31,940.00	4/6/2017	6	88
TW D	405	1/1/1991	AC	TAXIWAY	Р	0	14,810.00	4/6/2017	26	64
TW D	410	3/15/2011	AAC	TAXIWAY	Р	0	5,148.00	4/6/2017	6	87

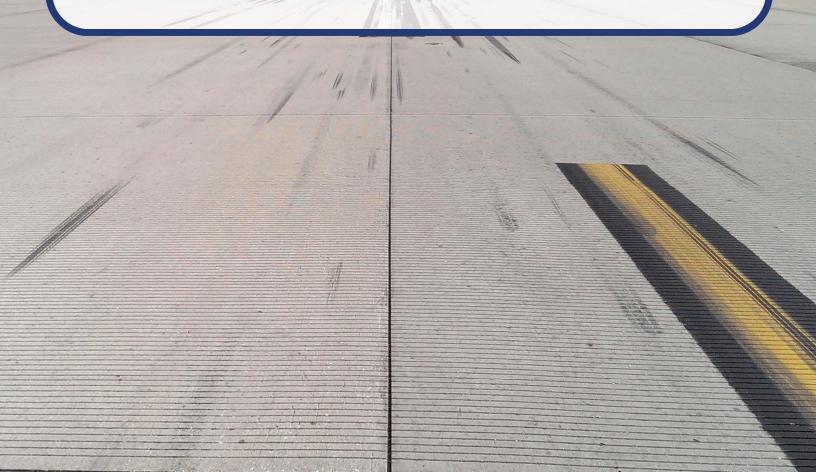
7/26/2017	Section Condition Report (Summary)	Page 2 of 2
	Pavement Database: FDOT	

Age Category	Average Age at Inspection			Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
06-10	7	966,700.00	12	83.83	7.81	80.00
11-15	14	281,325.00	1	56.00	0.00	56.00
16-20	19	20,923.00	3	57.33	12.28	63.54
26-30	26	166,230.00	2	58.00	6.00	53.07
ALL	12	1,435,178.00	18	75.00	15.03	71.94



Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation



2017

Okeechobee County Airport (OBE)





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
OBE	AP	4105	49	OIL SPILLAGE	N/A	351.98	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	431.63	SqFt	\$ 3.00	\$ 1,300.00
OBE	AP	4105	52	RAVELING	Low	3656.93	SqFt	2.6%	FDOT - SURFACE SEAL	3656.5	SqFt	\$ 0.55	\$ 2,020.00
OBE	AP	4110	45	DEPRESSION	Low	1273.26	SqFt	2.4%	FDOT - PATCHING - AC FULL DEPTH	1420.84	SqFt	\$ 6.00	\$ 8,530.00
OBE	AP	4110	52	RAVELING	Low	13674.58	SqFt	25.6%	FDOT - SURFACE SEAL	13674.47	SqFt	\$ 0.55	\$ 7,530.00
OBE	RW 14-32	6205	45	DEPRESSION	Low	28.09	SqFt	0.0%	FDOT - PATCHING - AC FULL DEPTH	53.82	SqFt	\$ 6.00	\$ 330.00
OBE	RW 14-32	6205	48	L & T CR	Medium	3150.85	Ft	1.1%	FDOT - CRACK SEALING - AC	3150.92	Ft	\$ 3.00	\$ 9,460.00
OBE	RW 14-32	6205	52	RAVELING	Low	81935.85	SqFt	29.1%	FDOT - SURFACE SEAL	81935.96	SqFt	\$ 0.55	\$ 45,070.00
OBE	RW 14-32	6205	52	RAVELING	Medium	468.88	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	469.31	SqFt	\$ 3.00	\$ 1,410.00
OBE	RW 14-32	6205	56	SWELLING	Medium	468.88	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	559.72	SqFt	\$ 6.00	\$ 3,370.00
OBE	RW 5-23	6105	48	L & T CR	Medium	937.5	Ft	0.4%	FDOT - CRACK SEALING - AC	937.66	Ft	\$ 3.00	\$ 2,820.00
OBE	RW 5-23	6105	50	PATCHING	Medium	612.47	SqFt	0.3%	FDOT - PATCHING - AC FULL DEPTH	715.8	SqFt	\$ 6.00	\$ 4,300.00
OBE	RW 5-23	6105	52	RAVELING	Low	13362.53	SqFt	5.3%	FDOT - SURFACE SEAL	13362.32	SqFt	\$ 0.55	\$ 7,350.00
OBE	RW 5-23	6107	48	L&TCR	Medium	93.77	Ft	0.0%	FDOT - CRACK SEALING - AC	93.83	Ft	\$ 3.00	\$ 290.00
OBE	RW 5-23	6107	52	RAVELING	Low	3124.98	SqFt	1.3%	FDOT - SURFACE SEAL	3124.76	SqFt	\$ 0.55	\$ 1,720.00
OBE	T-HANG	4205	52	RAVELING	Low	17059.72	SqFt	98.1%	FDOT - SURFACE SEAL	17059.72	SqFt	\$ 0.55	\$ 9,390.00
OBE	TW A	105	45	DEPRESSION	Low	375.34	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	457.47	SqFt	\$ 6.00	\$ 2,750.00
OBE	TW A	115	52	RAVELING	Low	427	SqFt	20.0%	FDOT - SURFACE SEAL	427.33	SqFt	\$ 0.55	\$ 240.00
OBE	TW A	130	45	DEPRESSION	Low	137.99	SqFt	9.9%	FDOT - PATCHING - AC FULL DEPTH	189.44	SqFt	\$ 6.00	\$ 1,140.00
OBE	TW A	130	45	DEPRESSION	Medium	72.01	SqFt	5.2%	FDOT - PATCHING - AC FULL DEPTH	109.79	SqFt	\$ 6.00	\$ 670.00
OBE	TW A	130	52	RAVELING	Low	1391.02	SqFt	100.0%	FDOT - SURFACE SEAL	1390.7	SqFt	\$ 0.55	\$ 770.00
OBE	TW B	205	48	L & T CR	Medium	1289.7	Ft	0.9%	FDOT - CRACK SEALING - AC	1289.7	Ft	\$ 3.00	\$ 3,870.00
OBE	TW B	205	52	RAVELING	Low	84742.22	SqFt	56.0%	FDOT - SURFACE SEAL	84742.11	SqFt	\$ 0.55	\$ 46,610.00
OBE	TW D	405	52	RAVELING	Low	14386.83	SqFt	97.1%	FDOT - SURFACE SEAL	14387.04	SqFt	\$ 0.55	\$ 7,920.00
OBE	TW D	405	52	RAVELING	Medium	423.13	SqFt	2.9%	FDOT - PATCHING - AC PARTIAL DEPTH	423.02	SqFt	\$ 3.00	\$ 1,270.00





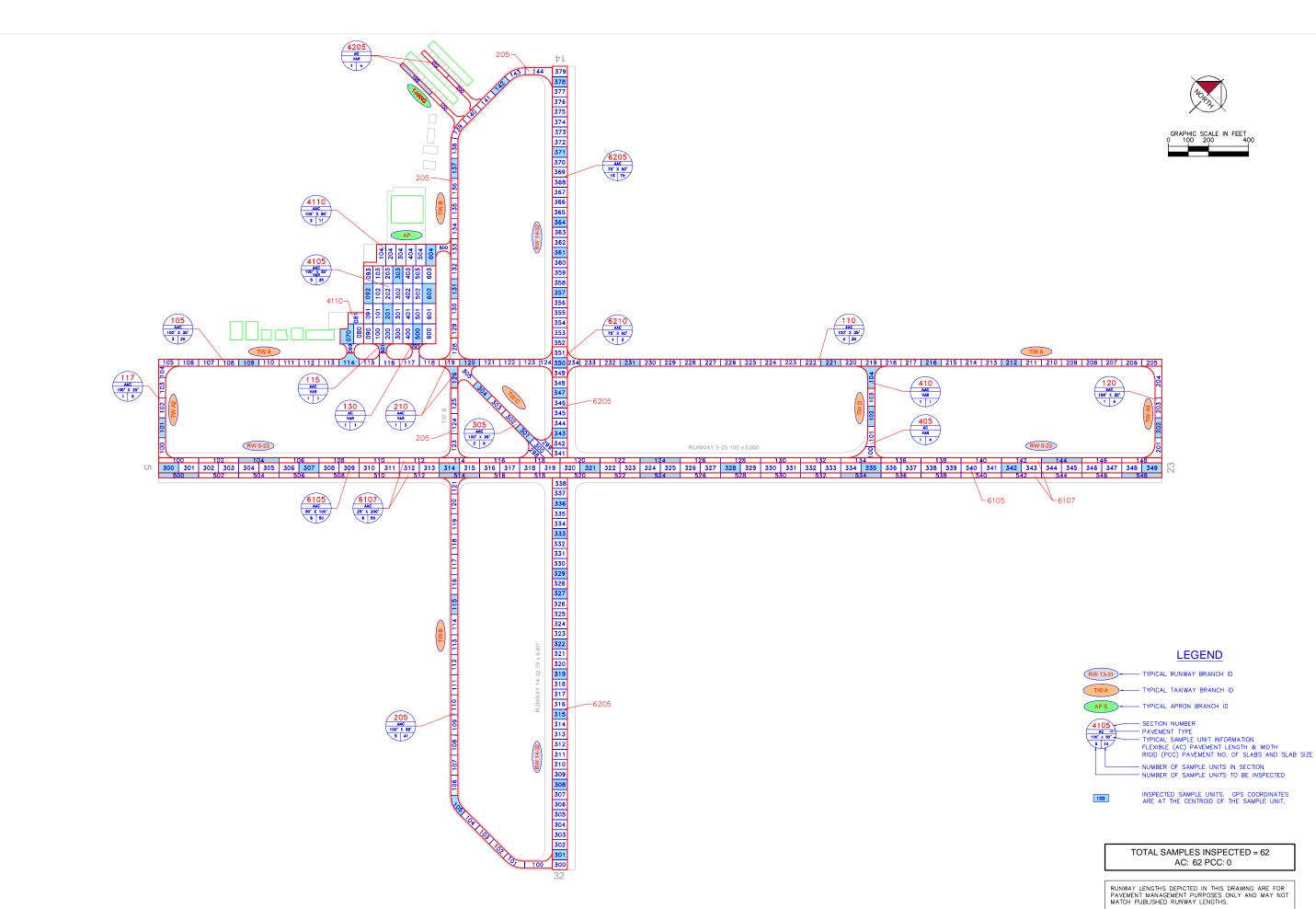
Table B-2 10-Year Major Rehabilitation Planning Needs at Section Level

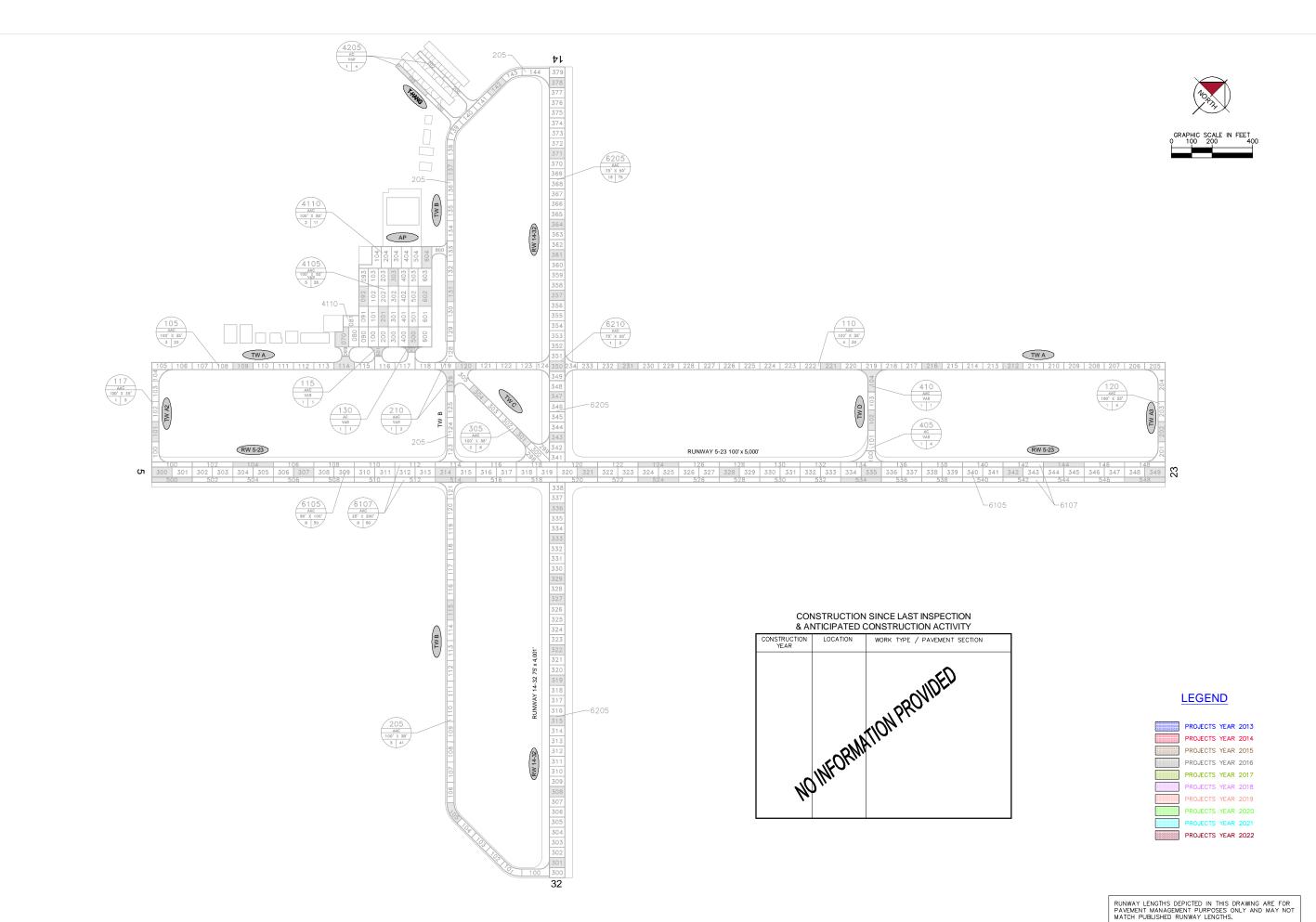
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	OBE	AP	4110	AAC	53,454	63	AC Restoration	\$ 375,000.00
2018	OBE	RW 14-32	6205	AAC	281,325	54	AC Restoration	\$ 1,970,000.00
2018	OBE	T-HANG	4205	AC	17,395	64	AC Restoration	\$ 122,000.00
2018	OBE	TW A	130	AC	1,391	38	AC Reconstruction	\$ 13,000.00
2018	OBE	TW B	205	AAC	151,420	50	AC Restoration	\$ 1,060,000.00
2018	OBE	TW D	405	AC	14,810	63	AC Restoration	\$ 104,000.00
2019	OBE	TW A	115	AAC	2,137	64	AC Restoration	\$ 15,000.00
2021	OBE	RW 5-23	6105	AAC	250,000	64	AC Restoration	\$ 1,751,000.00
2024	OBE	AP	4105	AAC	139,680	63	AC Restoration	\$ 978,000.00
2027	OBE	RW 5-23	6107	AAC	250,000	64	AC Restoration	\$ 1,751,000.00



Appendix C

Technical Exhibits

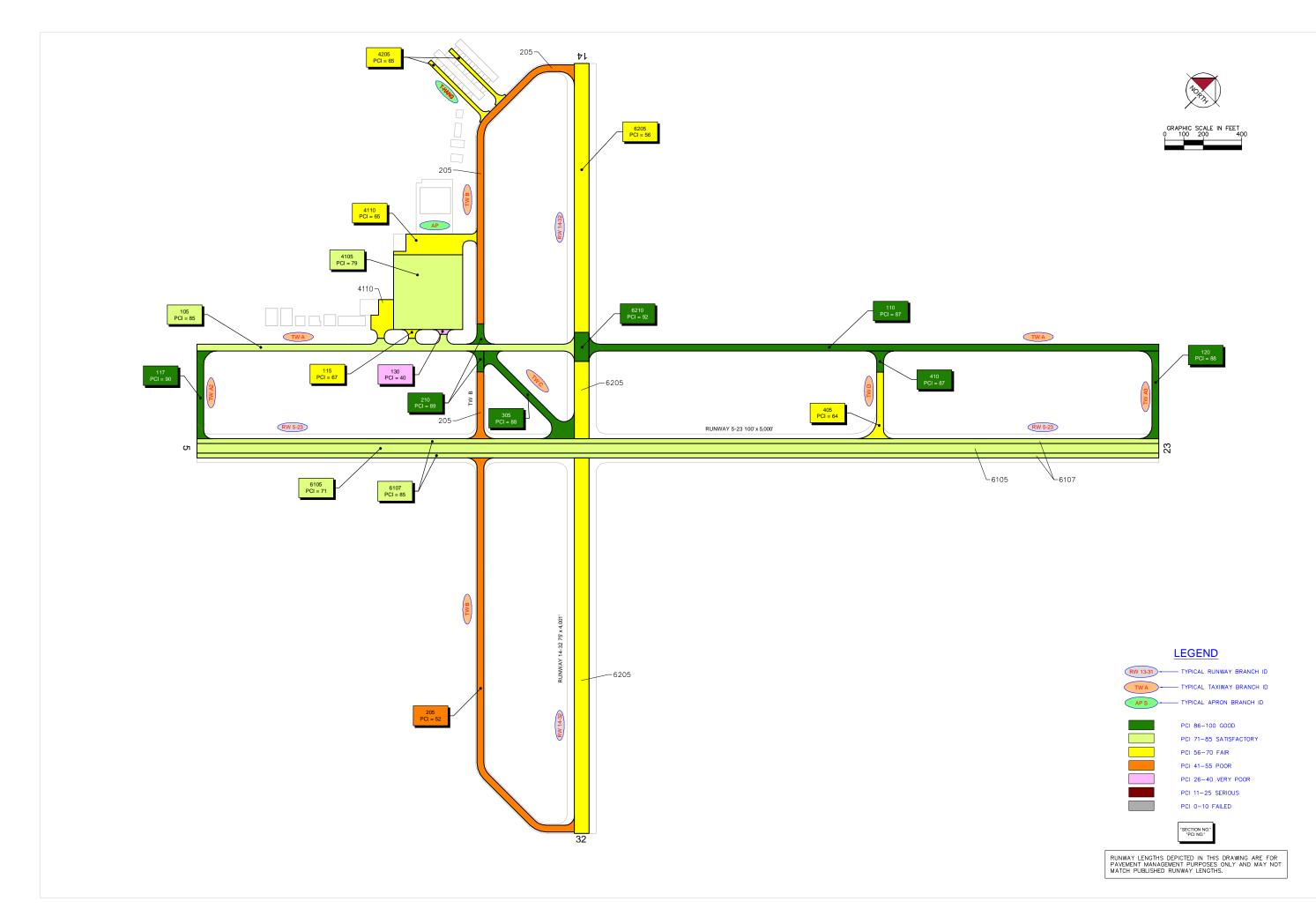


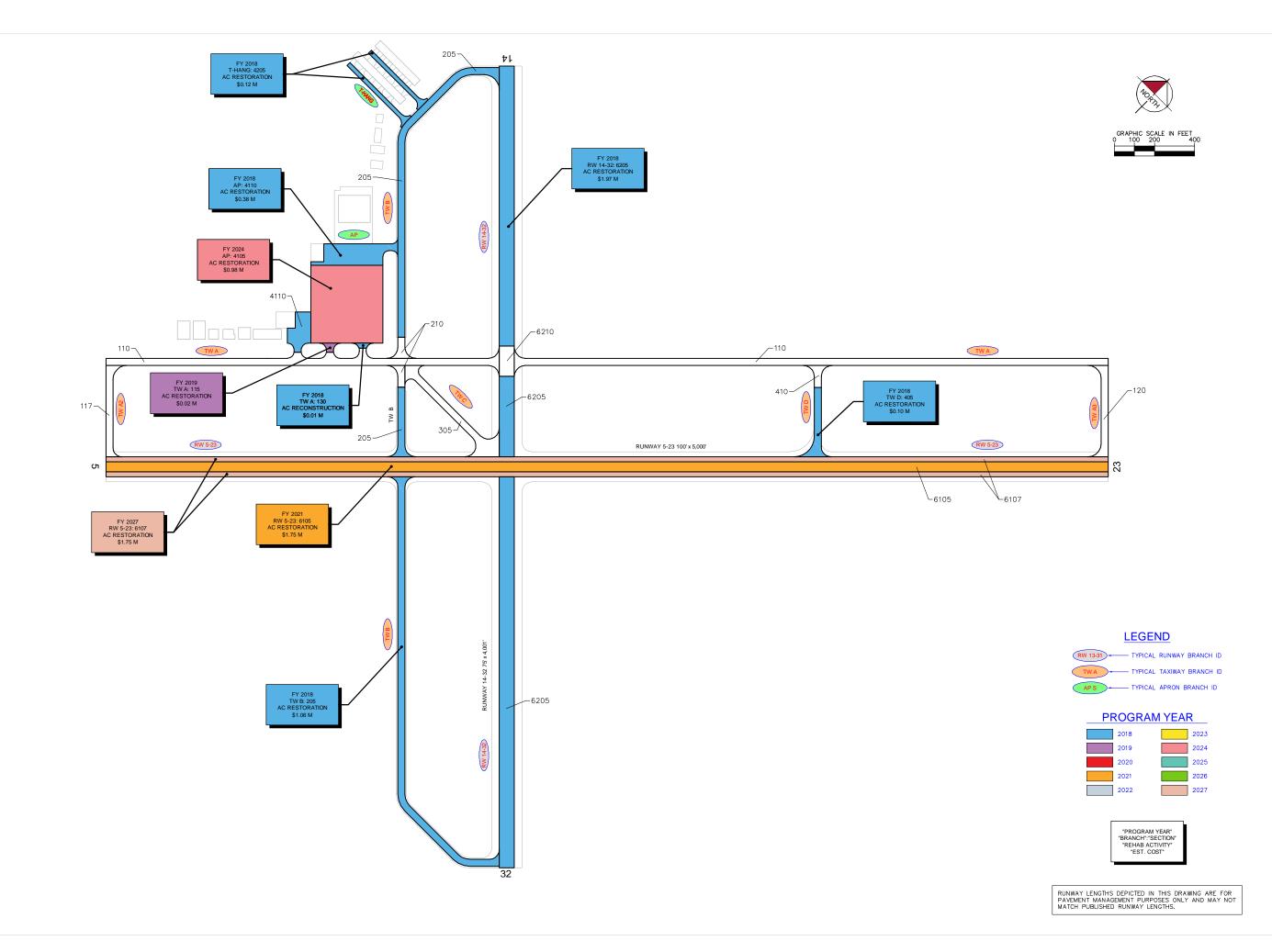








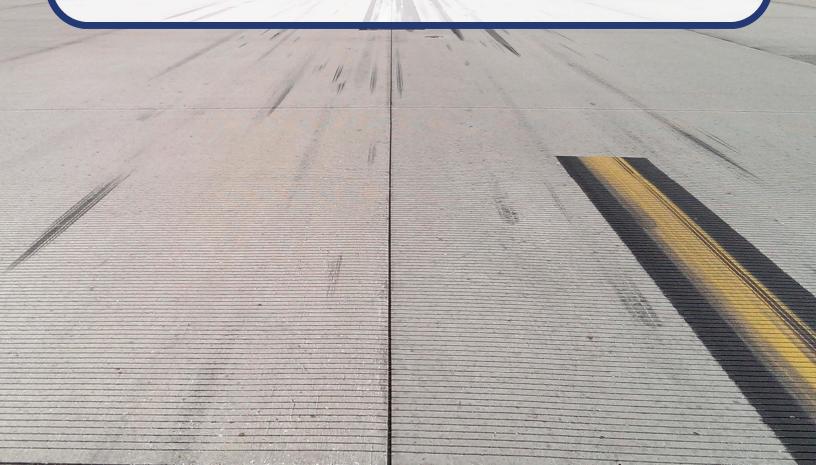






Appendix D

Inspection Photograph Documentation









Runway 5-23, Section 6105, Sample Unit 300 – Low Severity (50) Patching, Medium Severity (50) Patching, Low Severity (52) Raveling, Low Severity (57) Weathering



Runway 5-23, Section 6107, Sample Unit 124 – Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering







Runway 5-23, Section 6105, Sample Unit 335 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (56) Swelling, Low Severity (57) Weathering



Runway 5-23, Section 6105, Sample Unit 349 – Medium Severity (50) Patching, Low Severity (52) Raveling, Low Severity (57) Weathering





Runway 14-32, Section 6205, Sample Unit 301 – Low Severity (43) Block Cracking, Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling



Runway 14-32, Section 6205, Sample Unit 333 - Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (56) Swelling, Low Severity (57) Weathering







Runway 14-32, Section 6205, Sample Unit 357 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



Runway 14-32, Section 6205, Sample Unit 378 - Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (56) Swelling, Low Severity (57) Weathering





Taxiway A, Section 105, Sample Unit 109 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Taxiway A, Section 110, Sample Unit 231 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering





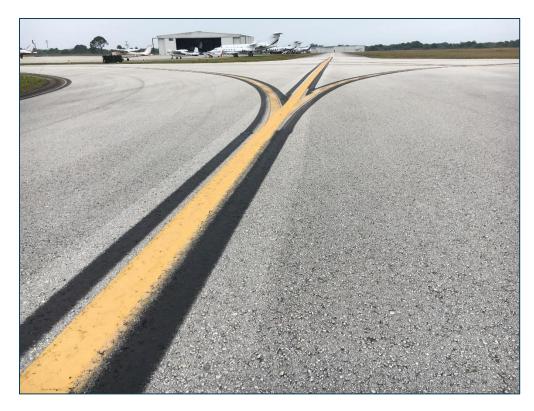
Taxiway A, Section 110, Sample Unit 212 - Low Severity (57) Weathering



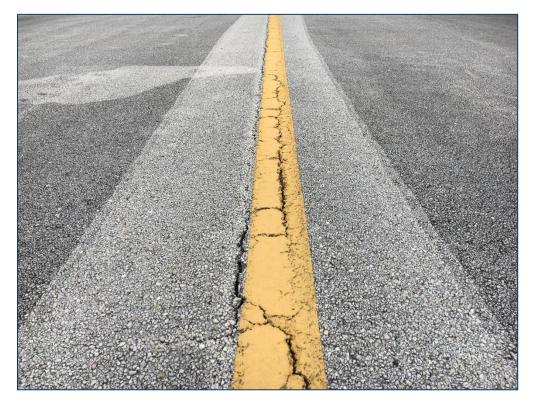
Taxiway B, Section 205, Sample Unit 105 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering







Taxiway B, Section 210, Sample Unit 126 - Low Severity (57) Weathering



Taxiway B, Section 205, Sample Unit 142 – Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (56) Swelling, Low Severity (57) Weathering

Airport Pavement

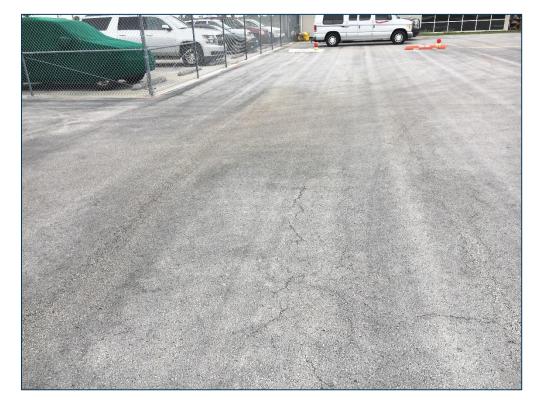
Evaluation Report







Apron, Section 4105, Sample Unit 500 - Low Severity (57) Weathering



Apron, Section 4110, Sample Unit 70 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering

Airport Pavement

Evaluation Report





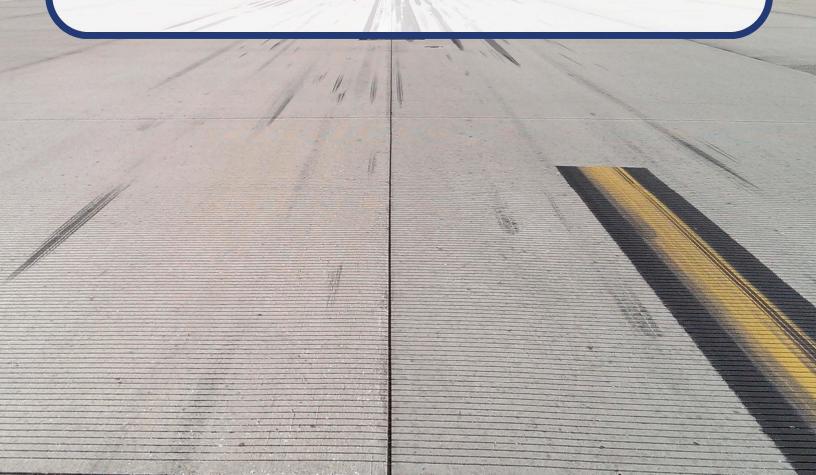


Apron, Section 4110, Sample Unit 604 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



Appendix E

Inspection Distress Details



Re-Inspection Report

FDOT

Generated Date 7/26/2017 Page 1 of 22

Generat	ted Date		7/26	/2017												Page 1 of 22
Networl	k: OBE					Nai	me: OK	EECHOBE	E COU	NTY AIRPO	ORT					
Branch	: AP		1	Name:	APRO	N		Use	: AF	PRON		Area:	1	93,134	SqFt	
Section:	4105	of	2		From:	-				To: -				Last	Const.:	12/31/2007
Surface	: AAC	Family:	C9N	59-GA- <i>A</i>	AP-AC	Zoi	ne:			Category:				Ranl	s: P	
Area:	139,68	30 SqFt		Length:		600	Ft	Width:		230 Ft						
Slabs:		Slab Leng	gth:		Ft		Slab Width:			Ft		Join	nt Length:		F	t
Shoulde	er:	Street Ty	pe:				Grade: 0					Lar	nes: 0			
Section	Comments:															
Work D	Pate: 1/1/1988	Wo	rk Ty	pe: BU	ILT				Code:	IMPORTE	D		Is Major	M&R:	True	
Work D	Pate: 1/1/1998	Wo	rk Ty	pe: OV	ERLAY				Code:	IMPORTE	D		Is Major	M&R:	True	
Work D	Date: 12/31/2007	Wo	rk Ty	pe: MII	L and OVE	RLAY			Code:	ML-OV			Is Major	M&R:	True	
Last Ins	sp. Date: 4/6/2017			Total	Samples:	28		Surve	yed:	5						
Condition	ons: PCI : 79															
Inspecti	on Comments:															
Sample	Number: 092	Тур	e:	R		Area:	4500	0.00 SqFt		PCI:	79					
Sample	Comments:															
48 I	L & T CR		L		114.00											
	RAVELING		L		225.00											
	SWELLING WEATHERING		L L		18.00 4275.00	SqFt										
	Number: 201	Тур		R		Area:	5000	0.00 SqFt		PCI:	87					
_	Comments:	1ур		K	I	iica.	3000	7.00 Sqr t		101.	07					
48 I	L & T CR		L		103.00	Ft										
	WEATHERING		L		5000.00											
Sample	Number: 303	Тур	e:	R	I	Area:	4400	0.00 SqFt		PCI:	78					
Sample	Comments:															
48 I	L & T CR		L		164.00	Ft										
	RAVELING		L		440.00											
57 V	WEATHERING		L		3960.00	SqFt										
Sample	Number: 500	Тур	e:	R	I	Area:	4750	0.00 SqFt		PCI:	70					
Sample	Comments:															
48 I	L & T CR		L		384.00	Ft										
56 \$	SWELLING		L		138.00											
57 V	WEATHERING		L		4750.00	SqFt										
Sample	Number: 602	Тур	e:	R	I	Area:	6750	0.00 SqFt		PCI:	78					
Sample	Comments:															
	L & T CR		L		234.00											
	OIL SPILLAGE		N			SqFt										
	SWELLING		L			SqFt										
57 V	WEATHERING		L		6750.00	SqFt										

Network	C: OBE					Name:	OKE	ECHOBEE	COUNTY AI	RPORT					
Branch:	AP			Name:	APRON			Use:	APRON	1	Area:	19	93,134 Sql	₹t	
Section:	4110		of 2	Fr	om: -				То: -				Last Co	nst.: 1	2/31/2007
Surface:	AAC	Famil	y: C9N	159-GA-AP-	AC	Zone:			Categor	y:			Rank:	P	
Area:		53,454 SqFt		Length:		250 Ft		Width:	200) Ft					
Slabs:		Slab	Length:		Ft	Sl	lab Width:		Ft		Joint Le	ength:		Ft	
Shoulder	r:	Stree	t Type:			G	rade: 0				Lanes:	0			
Section (Comments:														
Work Da	ate: 1/1/1998	3	Work T	ype: BUILT	Γ			C	ode: IMPOF	RTED	Is N	Iajor N	∕⁄⁄&R: Tru	ie	
Work Da	ate: 12/31/20	007	Work T	ype: MILL	and OVER	LAY		C	ode: ML-O	Į.	Is M	Iajor N	∕I&R: Tru	ie	
Last Ins	p. Date: 4/6	5/2017		TotalSar	mples: 11	1		Surveye	d: 2						
Last Insp Condition	p. Date: 4/6 ons: PCI:			TotalSar	mples: 11	1		Surveye	d: 2						
Conditio	ons: PCI:	65		TotalSar	mples: 11	1		Surveye	d: 2						
Conditio Inspectio	ons: PCI:	65 S:	Tyne:				5400			'I: 77					
Condition Inspection Sample 1	ons: PCI: on Comments Number: 60	65 S:	Type:	TotalSar R		l ea:	5400	Surveye		TI: 77					
Condition Inspection Sample Inspection Sample Inspection	ons: PCI: on Comments Number: 60 Comments:	65 S:	••	R	Ar	rea:	5400			CI: 77					
Condition Inspection Sample Inspection Sample Inspection Sample Inspection	ons: PCI: on Comments Number: 60 Comments:	65 S:	I	R	Ar 130.00 H	ea: Ft	5400			EI: 77					
Condition Inspection Sample I Sample 0 48 L 52 R	ons: PCI: on Comments Number: 60 Comments: . & T CR RAVELING	65 S:	I I	R	130.00 H 270.00 S	r ea: Ft SqFt	5400			VI: 77					
Condition Inspection Sample 1 Sample 48 L 52 R 56 S	ons: PCI: on Comments Number: 60 Comments:	65 S::	I	R	Ar 130.00 H	r ea: Ft SqFt SqFt	5400			CI: 77					
Conditional Inspection Sample Conditional Sample Co	ons: PCI: on Comments Number: 60 Comments: & T CR RAVELING WELLING	65 s:)4	I I I	R	130.00 H 270.00 S 106.00 S 5130.00 S	r ea: Ft SqFt SqFt			PC	XI: 77					
Condition Inspection Sample I Sample I 48 L 52 R 56 S 57 W Sample I	ons: PCI: on Comments Number: 60 Comments: . & T CR RAVELING WELLING	65 s:)4	I I I I	R	130.00 H 270.00 S 106.00 S 5130.00 S	ea: Ft SqFt SqFt SqFt		.00 SqFt	PC						
Conditional Inspection Sample Parameter	ons: PCI: on Comments Number: 60 Comments: . & T CR AVELING WELLING WEATHERING Number: 70	65 S:: 04 G	I I I I	R	130.00 H 270.00 S 106.00 S 5130.00 S	rea: Ft SqFt SqFt SqFt		.00 SqFt	PC						
Conditional Inspection Sample Parameter	ons: PCI: on Comments Number: 60 Comments: . & T CR AVELING WELLING VEATHERING Number: 70 Comments:	65 S:: 04 G	I I I Type:	R	130.00 H 270.00 S 106.00 S 5130.00 S	rea: Ft SqFt SqFt SqFt SqFt Fea:		.00 SqFt	PC						
Condition Inspection Sample I Sample I 48 L 52 R 56 S 57 W Sample I Sample I 57 W 43 B	ons: PCI: on Comments Number: 60 Comments: . & T CR AVELING WELLING WEATHERING Number: 70 Comments:	65 S:: G G	I I Type:	R	130.00 F 270.00 S 106.00 S 5130.00 S	rea: Ft SqFt SqFt SqFt rea: SqFt		.00 SqFt	PC						
Condition Inspection Sample I Sample I 48 L 52 R 56 S 57 W Sample I Sample I 57 W 43 B 45 D	ons: PCI: on Comments Number: 60 Comments: . & T CR AVELING WELLING WEATHERING Number: 70 Comments: WEATHERING	65 S:: G G	I I I Type:	R	130.00 F 270.00 S 106.00 S 5130.00 S Ar 3149.00 S 560.00 S	rea: Ft SqFt SqFt SqFt rea: SqFt		.00 SqFt	PC						
Condition Inspection Sample 1 Sample 2 48 L 52 R 56 S 57 W Sample 1 Sample 2 57 W 43 B 45 D 48 L	ons: PCI: on Comments Number: 60 Comments: . & T CR RAVELING WELLING WEATHERING Number: 70 Comments: WEATHERING WEATHERING DEPRESSION	65 S:: G G	I I I Type:	R	130.00 F 270.00 S 106.00 S 5130.00 S Ar 3149.00 S 560.00 S 265.00 S	rea: Ft SqFt SqFt SqFt rea: SqFt SqFt SqFt SqFt SqFt SqFt		.00 SqFt	PC						

Netwo	rk: OBE				Name:	OKEECHOB	EE COU	INTY AIRPORT			
Branch	n: RW 14-32		Name:	RUNV	VAY 14-32	Us	e: RI	JNWAY	Area:	292,650	SqFt
Section	n: 6205	of 2		From:	-			То: -		Last	Const.: 1/1/2003
Surfac	e: AAC		9N59-GA PC	-RW-AAC-	Zone:			Category:		Ran	k: S
Area:	281,3	25 SqFt	Lengt	h:	3,750 Ft	Width:		75 Ft			
Slabs:		Slab Length	:	Ft	Slab	Width:		Ft	Joint	Length:	Ft
Should	ler:	Street Type:			Grad	le: 0			Lanes	s : 0	
Section	n Comments:										
Work 1	Date: 1/1/1943	Work	Type: B	UILT			Code:	IMPORTED	Is	Major M&R:	True
Work 1	Date: 1/1/1983	Work	Type: O	VERLAY			Code:	IMPORTED	Is	Major M&R:	True
Work 1	Date: 1/1/1983	Work	Type: O	VERLAY			Code:	IMPORTED	Is	Major M&R:	True
Work 1	Date: 1/1/2003	Work	Type: M	ill and Overla	у		Code:	ML-OL	Is	Major M&R:	True
Last In	nsp. Date: 4/6/2017	1	Tota	alSamples:	75	Surv	eyed:	16			
Condit	tions: PCI: 56										
Inspec	tion Comments:										
Sample	e Number: 301	Type:	R	A	Area:	3750.00 SqFt		PCI: 49			
Sample	e Comments:										
52	RAVELING		M	100.00	SaFt						
	BLOCK CR		L	300.00	•						
	L & T CR		L	150.00	-						
	L & T CR		M	50.00							
	RAVELING		L	3650.00	-						
	SWELLING		L	212.00	SqFt						
Sample	e Number: 308	Type:	R	A	Area:	3750.00 SqFt		PCI: 58			
Sample	e Comments:										
48	L & T CR		L	348.00	Ft						
	L & T CR		M	50.00							
52	RAVELING		L	750.00	SqFt						
56	SWELLING		L	250.00							
57	WEATHERING		L	3000.00	SqFt						
Sample	e Number: 315	Type:	R	A	Area:	3750.00 SqFt		PCI: 58			
Sample	e Comments:										
18	L & T CR		L	361.00	Ft						
	L & T CR		M	50.00							
	RAVELING		L	750.00							
	SWELLING		L	55.00							
	WEATHERING		L	3000.00							
_	e Number: 319 e Comments:	Type:	R	A	Area:	3750.00 SqFt		PCI: 55			
45	DEPRESSION		L	6.00	SqFt						
	L & T CR		L	402.00							
	L & T CR		M	50.00							
	RAVELING		L	750.00							
	SWELLING		L	104.00	SqFt						
	WEATHERING		L	3000.00	SqFt						
_	e Number: 322	Type:	R	A	Area:	3750.00 SqFt		PCI: 60			
Sample	e Comments:										
	L & T CR		L	237.00							
	L & T CR		M	50.00							
	RAVELING		L	1825.00							
	SWELLING		L	200.00	-						
57	WEATHERING		L	1925.00	SqFt						
											⊏ 2

Samp	ple Number: 327	Type:		R	Area:	3750.00 SqFt	PCI:	55	
Samp	ple Comments:								
48	L & T CR		L		437.00 Ft				
48	L & T CR		M		50.00 Ft				
52	RAVELING		L		750.00 SqFt				
56	SWELLING		L		450.00 SqFt				
57	WEATHERING		L		3000.00 SqFt				
Samp	ple Number: 329	Type:		R	Area:	3750.00 SqFt	PCI:	60	
Samp	ole Comments:								
48	L & T CR		L		426.00 Ft				
52	RAVELING		L		750.00 SqFt				
56	SWELLING		L		400.00 SqFt				
57	WEATHERING		L		3000.00 SqFt				
Sami	ple Number: 333	Type:		R	Area:	3750.00 SqFt	PCI:	46	
	ole Comments:	-31				2.23.33			
					550.00 F				
48	L & T CR		L		550.00 Ft				
48 52	L & T CR RAVELING		M L		50.00 Ft 750.00 SqFt				
56	SWELLING		L		400.00 SqFt				
56	SWELLING		M		100.00 SqFt				
57	WEATHERING		L		3000.00 SqFt				
Samp	ple Number: 336	Type:		R	Area:	3750.00 SqFt	PCI:	54	
Samp	ple Comments:								
48	L & T CR		L		467.00 Ft				
48	L & T CR		M		50.00 Ft				
52	RAVELING		L		750.00 SqFt				
56	SWELLING		L		285.00 SqFt				
57	WEATHERING		L		3000.00 SqFt				
Samp	ple Number: 343	Type:		R	Area:	3750.00 SqFt	PCI:	57	
Samp	ole Comments:								
48	L & T CR		L		360.00 Ft				
48	L & T CR		M		80.00 Ft				
52	RAVELING		L		375.00 SqFt				
56	SWELLING		L		260.00 SqFt				
57	WEATHERING		L		3375.00 SqFt				
	ple Number: 347	Type:		R	Area:	3750.00 SqFt	PCI:	51	
Samp	ple Comments:								
48	L & T CR		L		570.00 Ft				
48	L & T CR		M		75.00 Ft				
52	RAVELING		L		375.00 SqFt				
56	SWELLING		L		170.00 SqFt				
57	WEATHERING	m-	L	D	3375.00 SqFt	2750 00 G T:	D.C.T	5 0	
	ple Number: 357	Type:		R	Area:	3750.00 SqFt	PCI:	59	
samj	ole Comments:								
48	L & T CR		L		420.00 Ft				
48	L & T CR		M		17.00 Ft				
52	RAVELING		L		750.00 SqFt				
56 57	SWELLING		L L		12.00 SqFt				
	WEATHERING ple Number: 361	Type:	L	R	3000.00 SqFt Area:	3750.00 SqFt	PCI:	61	
		1 ype:		K	Area:	3730.00 Sqrt	rei:	01	
	ple Comments:								
48	L & T CR		L		435.00 Ft				
52 56	RAVELING		L		1125.00 SqFt				
56 57	SWELLING WEATHERING		L L		46.00 SqFt 2625.00 SqFt				
	ole Number: 364	Type:	ь	R	Area:	3750.00 SqFt	PCI:	54	
	ole Comments:	1 y pe:		IX.	AICA.	3730.00 Sqrt	101;	JŦ	
					445.00 To				E-4
48	L & T CR		L		445.00 Ft				∟ -¬

48	L & T CR	M	50.00 Ft			
52	RAVELING	L	1125.00 SqFt			
56	SWELLING	L	108.00 SqFt			
57	WEATHERING	L	2625.00 SqFt			
Sam	ole Number: 371	Type: R	Area:	3750.00 SqFt	PCI: 60	
Sam	ole Comments:					
48	L & T CR	L	429.00 Ft			
52	RAVELING	L	1500.00 SqFt			
56	SWELLING	L	100.00 SqFt			
57	WEATHERING	L	2250.00 SqFt			
	WEATHERING ble Number: 378	Type: R	2250.00 SqFt Area:	3750.00 SqFt	PCI: 53	
Sam				3750.00 SqFt	PCI: 53	
Sam	ole Number: 378			3750.00 SqFt	PCI: 53	
Sam	ole Number: 378 ole Comments:	Type: R	Area:	3750.00 SqFt	PCI: 53	
Samp Samp	ole Number: 378 ole Comments: L & T CR	Type: R	Area: 505.00 Ft	3750.00 SqFt	PCI: 53	
Samp Samp 48 48	ole Number: 378 ole Comments: L & T CR L & T CR	Type: R L M	Area: 505.00 Ft 50.00 Ft	3750.00 SqFt	PCI: 53	

Network:	OBE				Name:	OKI	EECHOBEE (COUN	TY AIRP	ORT				
Branch:	RW 14-32		Nam	e: RUN	WAY 14-32		Use:	RUN	WAY	Area:		292,650 S	SqFt	
Section:	6210	of	f 2	From:	-			Т	'o: -			Last (Const.: 3/15	5/2011
Surface:	AAC	Family:	C9N59-G APC	A-RW-AAC-	Zone:			C	Category:			Rank	: S	
Area:	11,3	25 SqFt	Len	gth:	150 Ft		Width:		75 Ft	t				
Slabs:		Slab Len	gth:	Ft	Sl	ab Width:		F	t	Jo	int Length	ı:	Ft	
Shoulder:		Street Ty	pe:		Gi	rade: 0				La	nes: 0			
Section Co	mments:													
Work Date	e: 1/1/1943	W	ork Type:	New Constructi	on - Initial		Co	ode:	NU-IN		Is Major	· M&R: 7	Гruе	
Work Date	e: 1/1/1983	W	ork Type:	Overlay			Co	ode:	OL-MR		Is Major	· M&R:]	Ггие	
Work Date	e: 1/1/1983	W	ork Type:	Overlay			Co	ode:	OL-MR		Is Major	M&R: 7	Γrue	
Work Date	e: 1/1/2003	W	ork Type:	MILL and OVE	ERLAY		Co	ode:	ML-OV		Is Major	r M&R: 7	Γrue	
Work Date	e: 3/15/2011	W	ork Type:	MILL and OVE	ERLAY		Co	ode:	ML-OV		Is Major	r M&R: 7	Γrue	
Last Insp.	Date: 4/6/2017		Te	otalSamples:	3		Surveye	d: 1						
Conditions	PCI: 92													
Inspection	Comments:													
Sample Nu	mber: 350	Тур	e: R	1	Area:	3750	0.00 SqFt		PCI:	92				
Sample Co	omments:													
	T CR ATHERING		L L	1.00 3750.00										

Netwo	ork: OBE				Naı	me: OKE	ЕЕСНОВЕ	E COU	NTY AIRPO	ORT						
Branc	ch: RW 5-23		Name:	RUNV	WAY 5	-23	Use	: RU	INWAY		Area:		500,000) SqFt		
Sectio	on: 6105	of 2		From:	-				То: -				Las	t Const	.: 7/31	1/2008
Surfa	ce: AAC	•		RW-AAC-	Zor	ne:			Category:				Rar	ık: T		
		AP	C													
Area:	250,00	00 SqFt	Length	1:	2,500	Ft	Width:		100 Ft							
Slabs	:	Slab Length:		Ft		Slab Width:			Ft		Join	nt Lengt	h:		Ft	
Shoul	der:	Street Type:				Grade: 0					Lar	nes:	0			
Section	on Comments:															
Work	Date: 1/1/1943	Work 7	Гуре: ВС	JILT				Code:	IMPORTE	D		Is Majo	r M&R:	True		
Work	Date: 1/1/1982	Work 7	Гуре: О\	/ERLAY				Code:	IMPORTE	D		Is Majo	r M&R:	True		
Work	Date: 1/1/1982	Work 7	Гуре: О\	/ERLAY				Code:	IMPORTE	D		Is Majo	r M&R:	True		
Work	Date: 7/31/2008	Work 7	Гуре: Мі	ll and Overla	y			Code:	ML-OL			Is Majo	r M&R:	True		
Last I	nsp. Date: 4/6/2017		Tota	lSamples:	50		Surve	yed: 8	3							
Condi	itions: PCI: 71															
Inspe	ction Comments:															
Samo	le Number: 300	Type:	R		Area:	5000	.00 SqFt		PCI:	72						
•	le Comments:	V E					1		- 1							
48	L & T CR		L	151.00	Ft											
50	PATCHING		L		SqFt											
50	PATCHING		M		SqFt											
52 57	RAVELING WEATHERING		L L	490.00 4408.00	•											
	le Number: 307	Type:	R		Area:	5000	.00 SqFt		PCI:	78						
_	le Comments:	Type.	K	1	iicu.	3000	.oo bqr t		101.	70						
48	L & T CR		L	190.00	Ft											
52	RAVELING		L	250.00	SqFt											
57	WEATHERING		L	4750.00	SqFt											
Samp	le Number: 314	Type:	R	1	Area:	5000	.00 SqFt		PCI:	66						
Samp	le Comments:															
48	L & T CR		L	355.00	Ft											
48	L & T CR		M	100.00												
52	RAVELING		L	250.00												
57	WEATHERING		L	4750.00												
_	le Number: 321	Type:	R	1	Area:	5000	.00 SqFt		PCI:	69						
Samp	le Comments:															
48	L & T CR		L	433.00												
52 57	RAVELING		L	300.00												
57	WEATHERING		L	4700.00		5000	.00.0.7		B.CT	C 0						
_	le Number: 328	Type:	R	1	Area:	5000	.00 SqFt		PCI:	08						
Samp	le Comments:															
48	L & T CR		M	50.00												
48	L & T CR		L	296.00												
52 57	RAVELING WEATHERING		L L	250.00 4750.00												
	le Number: 335	Type:	R		Area:	5000	.00 SqFt		PCI:	70						
_	le Comments:	rype.	K	1	11 va.	3000	.oo bqrt		1 (1.	70						
48	L & T CR		L	381.00	Ft											
52	RAVELING		L	100.00												
56	SWELLING		L	5.00	SqFt											
57	WEATHERING		L	4900.00	SqFt											
Samp	le Number: 342	Type:	R		Area:	5000	.00 SqFt		PCI:	69						
Samp	le Comments:													E-7		

48	L & T CR	L	411.00 Ft			
52	RAVELING	L	250.00 SqFt			
57	WEATHERING	L	4750.00 SqFt			
Sam	ple Number: 349	Type: R	Area:	5000.00 SqFt	PCI: 71	
Sam	ple Comments:					
48	L & T CR	L	237.00 Ft			
50	PATCHING	M	35.00 SqFt			
52	RAVELING	L	248.00 SqFt			
57	WEATHERING	L	4717.00 SqFt			

Network:	OBE				Nan	ne: OKI	ЕЕСНОВЕ	EE COU	NTY AIRPO	ORT				
Branch:	RW 5-23		Name:	RUNW	/AY 5-:	23	Use	: RU	NWAY	A	rea:	500),000 SqFt	
Section:	6107	of 2	2	From:	-			ı	То: -				Last Const.:	: 7/31/2008
Surface:	AAC	•	9N59-GA-1 PC	RW-AAC-	Zon	e:			Category:				Rank: T	
Area:	250,000	0 SqFt	Length	ı: 2	2,500 F	⁷ t	Width:		100 Ft					
Slabs:		Slab Length		Ft		Slab Width:			Ft		Joint l	Length:	I	₹t
Shoulder:		Street Type:	:			Grade: 0					Lanes	: 0		
Section Co	mments:													
	e: 1/1/1943			w Construction	on - Init	ial		Code:					&R: True	
	e: 1/1/1982		Type: Ov						OL-MR				&R: True	
	e: 1/1/1982		Type: Ov						OL-MR				&R: True	
Work Date	e: 7/31/2008	Work	Type: MI	LL and OVE	RLAY			Code:	ML-OV		Is	Major M	&R: True	
Last Insp.	Date: 4/6/2017		Total	lSamples:	50		Surve	yed: 8						
Conditions	s: PCI : 85													
Inspection	Comments:													
Sample Nu Sample Co	mber: 104 omments:	Type:	R	A	rea:	5000	0.00 SqFt		PCI:	85				
	z T CR EATHERING		L L	143.00 5000.00										
Sample Nu	ımber: 124	Type:	R		rea:	5000	0.00 SqFt		PCI:	77				
Sample Co	omments:													
48 L&	t T CR		M	15.00	Ft									
	T CR		L	200.00										
	EATHERING	Т	L	5000.00		5000) 00 C-E4		DCI.	97				
Sample Nu Sample Co	mber: 144 omments:	Type:	R	A	rea:	3000	0.00 SqFt		PCI:	8/				
	T CR ATHERING		L L	112.00 5000.00										
	ımber: 500	Type:	R		rea:	5000	0.00 SqFt		PCI:	83				
Sample Co							-							
	z T CR VELING		L L	27.00 250.00										
	ELLING		L L	3.00										
	EATHERING		L	4750.00										
_	imber: 514	Type:	R	A	rea:	5000	0.00 SqFt		PCI:	87				
Sample Co	omments:													
	T CR EATHERING		L L	104.00 5000.00										
	imber: 524	Type:	R		rea:	5000	0.00 SqFt		PCI:	89				
Sample Co		ıype.	10	A	ıva.	5000	oo bqi t		101.	0)				
	T CR ATHERING		L L	40.00 5000.00										
	imber: 534	Type:	R		rea:	5000	0.00 SqFt		PCI:	89				
Sample Co							-							
	z T CR ZATHERING		L L	81.00 5000.00										
Sample Nu	imber: 548	Type:	R		rea:	5000	0.00 SqFt		PCI:	84				
Sample Co	omments:						-							
	z T CR VELING		L L	20.00 250.00									E-9	

WEATHERING

57

L 4750.00 SqFt

Network: OBE			Name:	OKEECHOBEE	COUNTY AIRPOR	Т	
Branch: T-HA	NG	Name:	T-HANGAR TAX	IILANE Use:	TAXILANE	Area:	17,395 SqFt
Section: 4205	of	1 F	rom: -		То: -		Last Const.: 12/25/1999
Surface: AC	Family:	C9N59-GA-TV	V-AC Zone:		Category:		Rank: P
Area:	17,395 SqFt	Length:	450 Ft	Width:	35 Ft		
Slabs:	Slab Leng	gth:	Ft Sla	b Width:	Ft	Joint Lengt	h: Ft
Shoulder:	Street Ty	pe:	Gr	ade: 0		Lanes:)
Section Comments:							
Work Date: 12/25/1	1999 W o	ork Type: New	Construction - Initial	C	Code: NU-IN	Is Majo	r M&R: True
Last Insp. Date: 4/	/6/2017	TotalSa	amples: 4	Survey	e d: 1		
Conditions: PCI:	65						
Inspection Commen	ts:						
Sample Number:	102 Typ	e: R	Area:	4150.00 SqFt	PCI: 6	5	
Sample Comments:							
48 L & T CR		L	22.00 Ft				
52 RAVELING		L	4070.00 SqFt				
50 PATCHING		L	80.00 SqFt				

Netwo	ork:	OBE							Na	me:	OKE	ECHOBI	EE COU	NTY AIRP	ORT						
Branc	ch:	TW A				N	ame:	TAX	IWAY A	A		Use	: TA	AXIWAY		Area:		18	4,004	SqFt	
Section	on: 105	5			of	4		From:	-					To: -					Last	Const.	: 3/15/2011
Surfa	ce: AA	vC		Family		C9N59 APC	9-GA-T	W-AAC-	Zo	ne:				Category:					Ranl	к: Р	
Area:			75,50	3 SqFt		I	Length:		2,100	Ft		Width:		35 F	't						
Slabs	:			Slab I	Lengtl	h:		F	't	Slab Wi	idth:			Ft		Join	nt Len	gth:			Ft
Shoul	lder:			Street	Туре	e:				Grade:	0					Lar	ies:	0			
Section	on Comm	nents:																			
Work	Date: 1	/1/1943			Worl	k Typ	e: BUI	LT					Code:	IMPORT	ED		Is Ma	ijor M	I&R:	True	
Work	Date: 1	/1/1985			Worl	k Typ	e: OV	ERLAY					Code:	IMPORT	ED		Is Ma	ijor M	I&R:	True	
Work	Date: 1	/1/1985	i		Worl	k Typ	e: OV	ERLAY					Code:	IMPORT	ED		Is Ma	ijor M	I&R:	True	
Work	Date: 3	3/15/201	1		Worl	k Typ	e: Mill	and Over	lay				Code:	ML-OL			Is Ma	ijor M	I&R:	True	
Last l	Insp. Dat	e: 4/6	/2017				Totals	Samples:	20			Surve	eyed:	3							
Cond	itions:	PCI:	85																		
Inspe	ction Co	mments	s:																		
Samp	le Numb	er: 10)9	7	Гуре:		R		Area:		3500	.00 SqFt		PCI:	89						
Samp	le Comm	nents:																			
48	L & T (CR				L		45.0	0 Ft												
57	WEAT	HERIN	G			L		3500.0	0 SqFt												
Samp	le Numb	er: 11	.4	7	Гуре:		R		Area:		5071	.00 SqFt		PCI:	82						
Samp	le Comm	nents:																			
45	DEPRE	ESSION				L		60.0	0 SqFt												
48	L & T (L			0 Ft												
57	WEAT					L		5071.0	0 SqFt												
	le Numb		20	7	Гуре:		R		Area:		3500	.00 SqFt		PCI:	85						
Samp	le Comm	nents:																			
48	L & T (CR				L		104.0													
57	WEAT	HERIN	G			L		3500.0	0 SqFt												

Shoulder: Street Type: Grade: 0 Lanes: 0	
Surface: AAC Family: C9N59-GA-TW-AAC Zone: Category: Rank: P APC A	
APC Area: 104,973 SqFt Length: 2,950 Ft Width: 35 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: 1 Street Type: Grade: 0 Lanes: 0 Section Comments: Work Date: 1/1/1943 Work Type: BUILT Code: IMPORTED Is Major M&R: True Work Date: 1/1/1985 Work Type: OVERLAY Code: IMPORTED Is Major M&R: True Work Date: 3/15/2011 Work Type: Mill and Overlay Code: ML-OL Is Major M&R: True Last Insp. Date: 4/6/2017 TotalSamples: 30 Surveyed: 4 Conditions: PCI: 87 Inspection Comments: Sample Number: 212 Type: R Area: 3500.00 SqFt PCI: 88 Sample Comments: 48 L & T CR L 63.00 Ft ST WEATHERING L 3500.00 SqFt Sample Comments: 48 L & T CR L 76.00 Ft ST WEATHERING L 3500.00 SqFt Sample Comments: 48 L & T CR L 3500.00 SqFt Sample Comments: 48 L & T CR L 3500.00 SqFt Sample Number: 216 Type: R Area: 3500.00 SqFt PCI: 87 Sample Number: 221 Type: R Area: 3500.00 SqFt Sample Comments: 48 L & T CR L 3500.00 SqFt Sample Number: 211 Type: R Area: 3500.00 SqFt Sample Number: 221 Type: R Area: 3500.00 SqFt Sample Number: 231 Type: R Area: 3500.00 SqFt	: 3/15/2011
Slab Slab Slab Length: Ft Slab Width: Ft Joint Length: It	
Shoulder: Street Type: Grade: 0 Lanes: 0	
Section Comments: Work Date: 1/1/1943 Work Type: BUILT Code: IMPORTED Is Major M&R: True	Ft
Work Date: 1/1/1943 Work Type: BUILT Code: IMPORTED Is Major M&R: True	
Work Date: 1/1/1985 Work Type: OVERLAY Code: IMPORTED Is Major M&R: True	
Work Date: 3/15/2011 Work Type: Mill and Overlay Code: ML-OL Is Major M&R: True	
Last Insp. Date: 4/6/2017 TotalSamples: 30 Surveyed: 4	
Conditions: PCI: 87	
Sample Number: 212 Type: R Area: 3500.00 SqFt PCI: 88	
Sample Comments:	
48 L & T CR L 3500.00 SqFt Sample Number: 216 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: 48 L & T CR L 76.00 Ft 57 WEATHERING L 3500.00 SqFt Sample Number: 221 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: 48 L & T CR L 3500.00 SqFt Sample Number: 221 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: 48 L & T CR L 81.00 Ft 57 WEATHERING L 3500.00 SqFt Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87	
57 WEATHERING L 3500.00 SqFt PCI: 87 Sample Number: 216 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: L 76.00 Ft 57 WEATHERING L 3500.00 SqFt PCI: 87 Sample Number: 221 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: L 81.00 Ft 57 WEATHERING L 3500.00 SqFt PCI: 87 Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments:	
Sample Number: 216 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: 48 L & T CR L 76.00 Ft 57 WEATHERING L 3500.00 SqFt PCI: 87 Sample Number: 221 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: L 81.00 Ft 57 WEATHERING L 3500.00 SqFt PCI: 87 Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments:	
Sample Comments: 48 L & T CR L 76.00 Ft 57 WEATHERING L 3500.00 SqFt PCI: 87 Sample Number: 221 Type: R A rea: 3500.00 SqFt PCI: 87 Sample Comments: Sample Number: 231 Type: R A rea: 3500.00 SqFt PCI: 87 Sample Comments:	
48	
57 WEATHERING L 3500.00 SqFt Sample Number: 221 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: 48 L & T CR L 81.00 Ft 57 WEATHERING L 3500.00 SqFt Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments:	
Sample Number: 221 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments: 48 L & T CR L 81.00 Ft 57 WEATHERING L 3500.00 SqFt Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments:	
Sample Comments: 48 L & T CR L 81.00 Ft 57 WEATHERING L 3500.00 SqFt Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments:	
48 L & T CR L 81.00 Ft 57 WEATHERING L 3500.00 SqFt Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments:	
57 WEATHERING L 3500.00 SqFt Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments:	
Sample Number: 231 Type: R Area: 3500.00 SqFt PCI: 87 Sample Comments:	
Sample Comments:	
48 L & T CR L 79.00 Ft	
57 WEATHERING L 3500.00 SqFt	

Network:	OBE				Nan	ne: OK	ЕЕСНОВЕЕ	COUNTY	AIRPORT	Γ			
Branch:	TW A		Name:	TAXIV	VAY A		Use:	TAXIW	/AY	Area:	184,0	004 SqFt	
Section:	115	0	f 4	From:	-			To:	-		L	ast Const	.: 1/1/1998
Surface:	AAC	Family:	C9N59-GA- APC	TW-AAC-	Zon	e:		Cate	egory:		R	Rank: P	
Area:		2,137 SqFt	Lengtl	ı:	50 F	řt	Width:		35 Ft				
Slabs:		Slab Ler	igth:	Ft		Slab Width:		Ft		Joint L	ength:		Ft
Shoulder:		Street T	ype:			Grade: 0				Lanes:	0		
Section Co	mments:												
Work Date	e: 1/1/1988	W	ork Type: BU	JILT			C	ode: IM	PORTED	Is N	/Iajor M&	R: True	
Work Date	e: 1/1/1998	W	ork Type: O	VERLAY			C	code: IMI	PORTED	Is N	/ajor M&	R: True	
Last Insp.	Date: 4/6/2	2017	Tota	lSamples:	1		Surveye	e d: 1					
Conditions	s: PCI:	67											
Inspection	Comments:												
Sample Nu	ımber: 601	Typ	pe: R	A	rea:	213′	7.00 SqFt		PCI: 67				
Sample Co	mments:												
48 L&	T CR		L	147.00	Ft								
52 RA	VELING		L	427.00	SqFt								
	ELLING		L	107.00	SqFt								
57 WE	ATHERING	Ī	L	1710.00	SqFt								

Network:	OBE			Nan	ne: OKEECHOBE	E COUNTY AIRPOR	RT	
Branch:	TW A		Name:	TAXIWAY A	Use:	TAXIWAY	Area:	184,004 SqFt
Section:	130	of	f 4	From: -		То: -		Last Const.: 1/1/1998
Surface:	AC	Family:	C9N59-GA-	ΓW-AC Zon	e:	Category:		Rank: T
Area:		1,391 SqFt	Length	: 25 I	Ft Width:	50 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Width:	Ft	Joint Le	ngth: Ft
Shoulder:		Street Ty	ype:		Grade: 0		Lanes:	0
Section Co	omments:							
Work Dat	te: 1/1/1998	W	ork Type: Ne	w Construction - AC		Code: NC-AC	Is M	Iajor M&R: True
Last Insp.	Date: 4/6/2	2017	Total	Samples: 1	Survey	v ed: 1		
Conditions	s: PCI:	40						
Inspection	Comments:							
Sample Nu	umber: 701	Тур	oe: R	Area:	1391.00 SqFt	PCI: 4	.0	
Sample Co	omments:							
52 RA	VELING		L	1391.00 SqFt				
45 DE	EPRESSION		L	138.00 SqFt				
45 DE	EPRESSION		M	72.00 SqFt				
48 L &	& T CR		L	205.00 Ft				

Network:	OBE				Nam	e: OK	EECHOBEE	COU	NTY AIRPORT	Γ		
Branch:	TW A2		Name:	TAXI	WAY A	2	Use:	TA	XIWAY	Area:	17,464 SqFt	
Section:	117	0	f 1	From:	-				То: -		Last Cons	st.: 3/15/2011
Surface:	AAC	Family:	C9N59-GA-T APC	W-AAC-	Zone	e:			Category:		Rank: P	
Area:	17	,464 SqFt	Length:		450 F	t	Width:		35 Ft			
Slabs:		Slab Len	ngth:	Ft		Slab Width:			Ft	Joint Length	:	Ft
Shoulder:		Street T	ype:			Grade: 0				Lanes: 0		
Section Co	omments:											
Work Date	e: 1/1/1943	W	ork Type: BUI	LT			(Code:	IMPORTED	Is Major	M&R: True	
Work Date	e: 1/1/1985	W	ork Type: OV	ERLAY			C	Code:	IMPORTED	Is Major	M&R: True	
Work Date	e: 1/1/1985	W	ork Type: OV	ERLAY			C	Code:	IMPORTED	Is Major	M&R: True	
Work Date	e: 3/15/2011	W	ork Type: Mill	and Overla	у		(Code:	ML-OL	Is Major	M&R: True	
Last Insp.	Date: 4/6/20	17	Totals	Samples:	5		Survey	ed:	1			
Conditions	s: PCI : 9	0										
Inspection	Comments:											
Sample Nu	ımber: 101	Tyl	pe: R	A	Area:	3500	0.00 SqFt		PCI: 90			
Sample Co	omments:											
48 L&	t T CR		L	26.00	Ft							
57 WE	EATHERING		L	3500.00	SqFt							

Network:	OBE				Name:	OKEECHOBEI	E COUNT	Y AIRPORT	Γ		
Branch:	TW A3		Name:	TAXIW	AY A3	Use:	TAXI	WAY	Area:	17,79	91 SqFt
Section:	120	0	f 1 F	rom: -			To	: -		La	st Const.: 3/15/2011
Surface:	AAC	Family:	C9N59-GA-TW APC	V-AAC-	Zone:		Ca	tegory:		Ra	nnk: P
Area:	17,7	791 SqFt	Length:		500 Ft	Width:		35 Ft			
Slabs:		Slab Ler	ngth:	Ft	Slab Wi	idth:	Ft		Joint Len	gth:	Ft
Shoulder:		Street T	ype:		Grade:	0			Lanes:	0	
Section Cor	mments:										
Work Date:	: 1/1/1943	W	ork Type: BUIL	Т		(Code: IM	/IPORTED	Is Ma	ajor M&R	t: True
Work Date:	: 1/1/1985	W	ork Type: OVE	RLAY		(Code: IM	1PORTED	Is Ma	ajor M&R	t: True
Work Date:	: 3/15/2011	W	ork Type: Mill a	nd Overlay		•	Code: M	L-OL	Is Ma	ajor M&R	t: True
Last Insp. I	Date: 4/6/201	7	TotalSa	mples: 4		Survey	red: 1				
Conditions:	: PCI : 88										
Inspection (Comments:										
Sample Nui	mber: 202	Tyj	pe: R	Ar	rea:	3500.00 SqFt		PCI: 88	}		
Sample Cor	mments:										

 48
 L & T CR
 L
 58.00 Ft

 57
 WEATHERING
 L
 3500.00 SqFt

Netwo	ork: OBE				Name:	OK	EECHOBE	E COU	NTY AIRP	ORT					
Branc	h: TW B		Name:	TAXIWA	У В		Use	: TA	XIWAY		Area:	1	160,842	SqFt	
Sectio	n: 205	of 2		From: -					То: -				Last	Const.:	1/1/199
Surfac	ce: AAC	Family: C91		W-AAC-	Zone:				Category:				Ranl	k: P	
Area:	151,42	20 SqFt	Length	4,1	55 Ft		Width:		35 F	t					
Slabs:		Slab Length:		Ft	Slab	Width:			Ft		Join	t Length:		F	t
Shoul	der:	Street Type:			Gra	de: 0					Lane	es: 0			
Sectio	n Comments:														
Work	Date: 1/1/1943	Work T	ype: OV	ERLAY				Code:	IMPORTE	ED]	s Major	M&R:	True	
Work	Date: 1/1/1943	Work T	ype: BU	ILT				Code:	IMPORTE	ED]	s Major	M&R:	True	
Work	Date: 1/1/1991	Work T	ype: MII	LL and OVERL	AY			Code:	ML-OV]	s Major	M&R:	True	
Last I	nsp. Date: 4/6/2017		Total	Samples: 41			Surve	yed:	5						
	tions: PCI: 52														
Inspec	ction Comments:														
Sampl	le Number: 105	Type:	R	Are	a:	361	1.00 SqFt		PCI:	57					
Sampl	le Comments:														
48	L & T CR		L	394.00 Ft											
52	RAVELING		L	1806.00 Sc	•										
56	SWELLING		L	542.00 Sc											
57	WEATHERING]	Ĺ	1805.00 Sc	_l Ft										
Sampl	le Number: 115	Type:	R	Are	a:	3500	0.00 SqFt		PCI:	52					
Sampl	le Comments:														
48	L & T CR	,	L	707.00 Ft											
52	RAVELING		L	1750.00 Sc											
56	SWELLING		L	350.00 Sc											
57	WEATHERING		L	1750.00 Sc	•										
	le Number: 131	Type:	R	Are		3500	0.00 SqFt		PCI:	45					
-	le Comments:	-1 bc.		1110		55 50			2021						
•		,	r	741.00 0	.T.4										
43	BLOCK CR		L	741.00 Sc	-										
48	L & T CR		L	273.00 Ft											
48 52	L & T CR RAVELING		M r	50.00 Ft 2100.00 Sc											
52 56	SWELLING		L L	700.00 Sc											
50 57	WEATHERING		L L	1400.00 So											
	le Number: 137	Type:	R	Are		350	0.00 SqFt		PCI:	53					
_	le Comments:	Type.	10	Ale		3300	bqi t		101.	55					
48	L & T CR	,	Ĺ	400.00 Ft											
52	RAVELING		L	2100.00 Sc											
56	SWELLING		L	700.00 Sc											
57	WEATHERING		L	1400.00 Sc											
	le Number: 142	Type:	R	Are		3500	0.00 SqFt		PCI:	52					
_	le Comments:						1								
48	L & T CR	1	L	382.00 Ft											
48	L & T CR		M	100.00 Ft											
52	RAVELING		L	2100.00 Sc											
	SWELLING		L	525.00 Sc											
56															

Network:	OBE				Name:	OKEECHOBI	EE COU	NTY AIRPOR	Т		
Branch:	TW B		Name:	TAXIV	WAY B	Use	e: TA	XIWAY	Area:	160,842 Sc	_l Ft
Section: 2	210	O	f 2 I	rom:	-			To: -		Last Co	onst.: 3/15/2011
Surface: A	AAC	Family:	C9N59-GA-TV APC	V-AAC-	Zone:			Category:		Rank:	P
Area:		9,422 SqFt	Length:		135 Ft	Width:		35 Ft			
Slabs:		Slab Len	gth:	Ft	Slab V	Vidth:		Ft	Joint L	ength:	Ft
Shoulder:		Street Ty	ype:		Grade	: 0			Lanes:	0	
Section Con	mments:										
Work Date:	: 1/1/1943	W	ork Type: New	Construction	on - Initial		Code:	NU-IN	Is I	Major M&R: Ti	rue
Work Date:	: 3/15/2011	W	ork Type: Mill	and Overlay	<i>i</i>		Code:	ML-OL	Is I	Major M&R: Ti	rue
Last Insp. I	Date: 4/6/2	017	TotalS	amples:	2	Surve	eyed:	1			
Conditions:	: PCI:	89									
Inspection (Comments:										
Sample Nur	mber: 126	Тур	oe: R	A	rea:	4449.00 SqFt		PCI: 8	9		
Sample Con											

55.00 Ft 4449.00 SqFt

L L

L & T CR WEATHERING

48

Network: OBE		Name:	OKEECHOBEE	COUNTY AIRPORT		
Branch: TW C	Name:	TAXIWAY C	Use:	TAXIWAY	Area: 3	1,940 SqFt
Section: 305	of 1	From: -		То: -		Last Const.: 3/15/2011
Surface: AAC	Family: C9N59-GA-7	W-AC Zone:		Category:		Rank: P
Area: 31	,940 SqFt Length	610 Ft	Width:	35 Ft		
Slabs:	Slab Length:	Ft Sla	b Width:	Ft	Joint Length:	Ft
Shoulder:	Street Type:	Gr	ade: 0		Lanes: 0	
Section Comments:						
Work Date: 1/1/1943	Work Type: OV	ERLAY	C	ode: IMPORTED	Is Major M	I&R: True
Work Date: 1/1/1943	Work Type: BU	ILT	C	ode: IMPORTED	Is Major M	I&R: True
Work Date: 3/15/2011	Work Type: MII	LL and OVERLAY	C	ode: ML-OV	Is Major M	I&R: True
Last Insp. Date: 4/6/20		Samples: 8	Surveye	ed: 2		
Conditions: PCI: 8 Inspection Comments:	88					
Sample Number: 301	Type: R	Area:	3500.00 SqFt	PCI: 90		
Sample Comments:						
48 L & T CR	L	23.00 Ft				
57 WEATHERING	L	3500.00 SqFt				
Sample Number: 304	Type: R	Area:	3500.00 SqFt	PCI: 87		
Sample Comments:						
48 L & T CR	L	81.00 Ft				
57 WEATHERING	L	3500.00 SqFt				

Network:	OBE				Name: (OKEECHOBEE	COUNTY AIRPORT	Γ	
Branch:	TW D		Name:	TAXIWA	AY D	Use:	TAXIWAY	Area:	19,958 SqFt
Section:	405	0	f 2	From: -			То: -		Last Const.: 1/1/1991
Surface:	AC	Family:	C9N59-GA-7	ΓW-AC	Zone:		Category:		Rank: P
Area:		14,810 SqFt	Length	: 2	50 Ft	Width:	35 Ft		
Slabs:		Slab Len	ngth:	Ft	Slab Widt	h:	Ft	Joint Lengt	th: Ft
Shoulder:		Street T	ype:		Grade:	0		Lanes:	0
Section Con	mments:								
Work Date	: 1/1/1991	W	ork Type: OV	ERLAY		(Code: IMPORTED	Is Majo	or M&R: True
Work Date	: 1/1/1991	W	ork Type: BU	ILT		(Code: IMPORTED	Is Majo	or M&R: True
Work Date	: 1/1/1993	W	ork Type: RE	PAIR		(Code: IMPORTED	Is Majo	or M&R: False
Last Insp. 1	Date: 4/6/2	2017	Total	Samples: 4		Survey	ed: 1		
Conditions	: PCI:	64							
Inspection	Comments:								
Sample Nu	mber: 102	. Tyl	pe: R	Are	a: 3	500.00 SqFt	PCI: 64		
Sample Con	mments:								
52 RAV	VELING		M	100.00 Sc	_l Ft				
	T CR		L	113.00 Ft					
52 RAV	VELING		L	3400.00 Sc	_l Ft				

Network:	OBE				Nan	ne:	OKEECI	HOBEE	COUNTY	' AIRPOR'	Γ			
Branch:	TW D		Name:	TAXI	WAY D			Use:	TAXIV		Area:	19	,958 SqF	<u> </u>
Section:	410	0	f 2		_				To:					st.: 3/15/2011
Surface:	AAC	Family:	C9N59-GA APC		Zon	e:				egory:			Rank: F	
Area:		5,148 SqFt	Lengt	h:	180 F	₹t	Wie	lth:		35 Ft				
Slabs:		Slab Ler	igth:	Ft		Slab Wid	th:		Ft		Joint L	ength:		Ft
Shoulder:	:	Street T	ype:			Grade:	0				Lanes:	0		
Section C	omments:													
Work Da	te: 1/1/1991	W	ork Type: No	ew Construction	on - Init	ial		C	ode: NU	J-IN	Is I	Major Ma	&R: True	e
Work Da	te: 3/15/201	1 W	ork Type: M	ill and Overla	y			C	ode: MI	L-OL	Is I	Major Ma	&R: True	e
Last Insp	. Date: 4/6/	2017	Tota	alSamples:	1		-	Surveye	ed: 1					
Condition	s: PCI:	87												
Inspection	n Comments	:												
Sample N	umber: 10	4 Ty ₁	pe: R	A	Area:	5	5148.00	SqFt		PCI: 87	7			
Sample C	omments:													
48 L	& T CR		L	108.00	Ft									
57 W	EATHERING	3	L	5148.00	SqFt									