FLORIDA DEPARTMENT OF TRANSPORTATION AVIATION AND SPACEPORTS OFFICE

Statewide Airfield Pavement Management Program

Airport Pavement Evaluation Report November 2019



Boca Raton Airport (BCT) Reliever Airport District 4



FDOT

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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
вст	RUNWAY 5-23	RUNWAY	6105	520,000	92	Good
вст	RUNWAY 5-23	RUNWAY	6106	72,700	93	Good
вст	RUNWAY 5-23	RUNWAY	6107	35,000	96	Good
вст	RUNWAY 5-23	RUNWAY	6110	260,000	91	Good
вст	RUNWAY 5-23	RUNWAY	6111	36,350	90	Good
вст	RUNWAY 5-23	RUNWAY	6112	17,500	100	Good
вст	TAXIWAY A	TAXIWAY	130	8,671	81	Satisfactory
вст	TAXIWAY B	TAXIWAY	125	9,396	85	Satisfactory
вст	TAXIWAY C	TAXIWAY	120	7,946	82	Satisfactory
вст	TAXIWAY C	TAXIWAY	220	3,501	83	Satisfactory
вст	TAXIWAY E	TAXIWAY	116	14,729	71	Satisfactory
вст	TAXIWAY F	TAXIWAY	115	7,946	86	Good
вст	TAXIWAY G	TAXIWAY	110	8,671	85	Satisfactory
вст	TAXIWAY H	TAXIWAY	111	7,946	82	Satisfactory
вст	TAXIWAY P	TAXIWAY	105	193,060	87	Good
вст	TAXIWAY P	TAXIWAY	106	29,080	90	Good
вст	TAXIWAY P	TAXIWAY	107	14,241	89	Good
вст	TAXIWAY P	TAXIWAY	108	10,940	80	Satisfactory
вст	TAXIWAY P	TAXIWAY	112	12,673	85	Satisfactory
вст	TAXIWAY P	TAXIWAY	113	4,000	90	Good
вст	TAXIWAY P	TAXIWAY	131	12,673	84	Satisfactory
вст	TAXIWAY P10	TAXIWAY	250	4,078	81	Satisfactory
вст	TAXIWAY P2	TAXIWAY	210	2,572	83	Satisfactory
вст	TAXIWAY P3	TAXIWAY	215	1,488	77	Satisfactory
вст	TAXIWAY P4	TAXIWAY	225	3,670	85	Satisfactory
вст	TAXIWAY P5	TAXIWAY	230	4,056	88	Good
вст	TAXIWAY P6	TAXIWAY	222	4,897	100	Good
вст	TAXIWAY P7	TAXIWAY	221	4,924	100	Good
вст	TAXIWAY P8	TAXIWAY	260	3,165	84	Satisfactory
вст	TAXIWAY P9	TAXIWAY	240	4,073	85	Satisfactory
вст	CUSTOMS APRON	APRON	4105	82,166	100	Good
вст	RUN-UP APRON 5	APRON	5105	26,544	80	Satisfactory
вст	RUN-UP APRON 23	APRON	5110	25,516	88	Good
вст	RUN-UP APRON 5	APRON	5115	11,787	79	Satisfactory



Table E-2 Pavement Condition Index Forecast 2020-2029

Network	Drenek ID	Section	Last	Forecasted PCI									
ID	Branch ID	ID	PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ВСТ	AP CUSTOMS	4105	100	95	93	91	88	86	84	82	80	78	76
ВСТ	AP RU 23	5110	88	86	84	82	80	77	75	73	71	69	67
ВСТ	AP RU 5	5105	80	78	76	74	72	69	67	65	63	61	59
ВСТ	AP RU 5	5115	79	77	75	73	72	70	69	67	66	64	63
ВСТ	RW 5-23	6105	92	90	88	86	84	82	80	78	77	75	74
ВСТ	RW 5-23	6106	93	91	89	87	85	83	81	79	77	76	75
ВСТ	RW 5-23	6107	96	94	91	89	87	85	83	81	79	78	76
ВСТ	RW 5-23	6110	91	89	87	85	83	81	79	78	76	75	73
ВСТ	RW 5-23	6111	90	88	86	84	82	80	79	77	76	74	73
BCT	RW 5-23	6112	100	98	95	93	90	88	86	84	82	80	79
BCT	TW A	130	81	80	78	77	75	74	73	71	70	69	68
BCT	TW B	125	85	83	82	80	78	77	76	74	73	72	71
BCT	TW C	120	82	80	79	77	76	75	73	72	71	70	69
BCT	TW C	220	83	81	80	78	77	75	74	73	72	70	69
BCT	TW E	116	71	70	68	67	66	65	64	62	61	60	59
BCT	TW F	115	86	84	83	81	79	78	76	75	74	72	71
ВСТ	TW G	110	85	83	82	80	78	77	76	74	73	72	71
BCT	TW H	111	82	80	79	77	76	75	73	72	71	70	69
BCT	TW P	105	87	85	84	82	80	79	77	76	74	73	72
BCT	TW P	106	90	88	86	84	83	81	79	78	76	75	74
BCT	TW P	107	89	87	85	84	82	80	79	77	76	74	73
BCT	TW P	108	80	79	77	76	74	73	72	71	70	68	67
ВСТ	TW P	112	85	83	82	80	78	77	76	74	73	72	71
BCT	TW P	113	90	88	86	84	83	81	79	78	76	75	74
BCT	TW P	131	84	82	81	79	78	76	75	74	72	71	70
BCT	TW P10	250	81	80	78	77	75	74	73	71	70	69	68
BCT	TW P2	210	83	81	80	78	77	75	74	73	72	70	69
BCT	TW P3	215	77	76	74	73	72	71	69	68	67	66	65
ВСТ	TW P4	225	85	83	82	80	78	77	76	74	73	72	71
ВСТ	TW P5	230	88	86	84	83	81	79	78	76	75	74	72
BCT	TW P6	222	100	96	95	93	91	90	88	87	85	83	82
BCT	TW P7	221	100	96	95	93	91	90	88	87	85	83	82
ВСТ	TW P8	260	84	82	81	79	78	76	75	74	72	71	70
ВСТ	TW P9	240	85	83	82	80	78	77	76	74	73	72	71

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Major Rehabilitation Planning 2020-2029

Table E-3 Major Rehabilitation Planning 2020-2029

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Pla	nning Cost
2025	BCT	TW E	116	AC	14,729	64	AC Restoration	\$	140,000.00
2027	BCT	AP RU 5	5105	AAC	26,544	63	AC Restoration	\$	253,000.00
2028	BCT	AP RU 5	5115	AC	11,787	64	AC Restoration	\$	112,000.00

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



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

Summary of Boca Raton Airport

Boca Raton Airport was inspected in May 2019 – the overall weighted PCI value was 90, a condition rating of Good. The results of the maintenance, repair, and major rehabilitation analysis identified \$25,510 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$505,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$ for pavements below critical condition.

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



Chapter 1

Chapter 1 – Introduction

1.1 Background

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

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

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

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

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

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



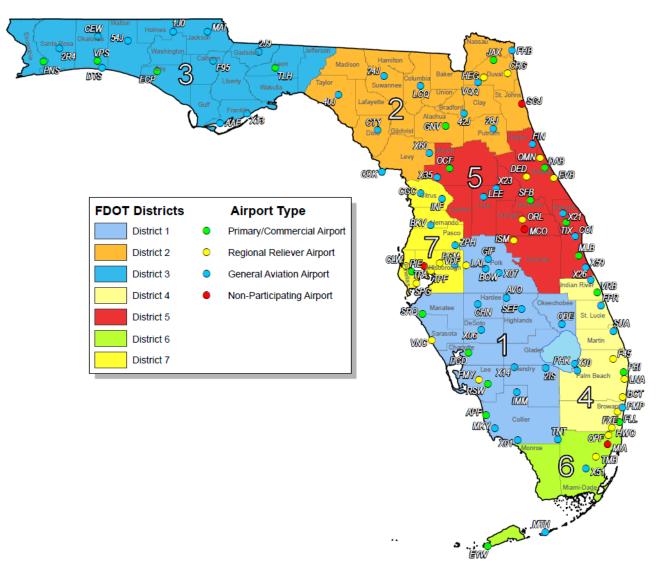


Figure 1.2 Florida Aviation System (Facilities with Pavement) and FDOT Districts

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



1.3 Organization

1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager

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

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

1.3.2 Participating Florida Public-Use and Publicly Owned Airports

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

1.3.3 Florida Department of Transportation District Offices

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

1.3.4 Consultant

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

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



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

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



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

The objectives are accomplished by the following components:

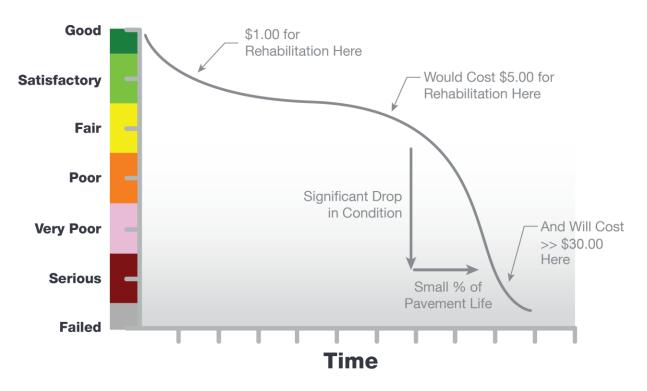
1.7.2 Program Components

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



- F. Pavement Performance Modeling for the Prediction/Forecast of PCI
- G. Maintenance, Repair, and Major Rehabilitation Policies and Budget Simulation

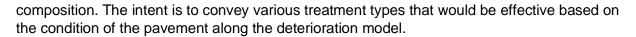
A well-maintained network-level pavement management program may provide airport staff a better understanding of the airfield pavement performance for developing and planning for specific maintenance, repair, and major rehabilitation projects. The understanding of specific distress types and severities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



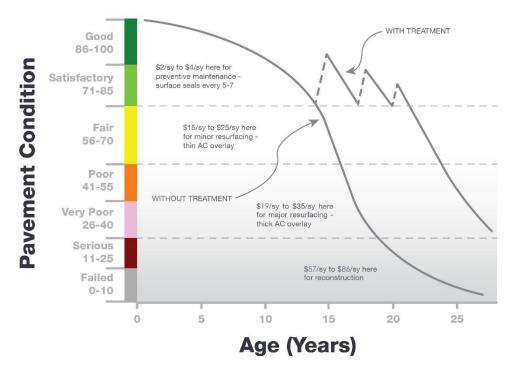


*Figure is for conceptual purposes only – unit costs are not specific to airfield pavements (AC vs PCC).

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







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

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

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	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		Pavements that have deteriorated below a PCI 65 (but above 39), or within the range of 'Very Poor' to 'Fair' conditions, may require major rehabilitation such as pavement mill and overlay or partial full-depth reconstruction.
Major Reconstruction	0-39	15		Pavements that have deteriorated below a PCI 40, or within the range of 'Failed' to 'Very Poor' conditions, may require major reconstruction.

Figures 1.7.2 (c) Flexible Asphalt Concrete



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



1.8 References

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

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



Chapter 2

FDOT

Chapter 2 – Methodology

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

2.1 Airfield Pavement Database

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

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

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

2.2 Airfield Pavement System Inventory

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

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

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

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

2.2.1 Pavement Management Program Network Definition Terminology

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

Pavement Network

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

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

Pavement Branch

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

Pavement Section

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

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

Pavement Sample Unit

A pavement sample unit is a subdivision of a pavement section that has a standard size range: twenty (20) continuous slabs (\pm 8 slabs) for Portland Cement Concrete (PCC) pavement and 5,000 contiguous square feet (\pm 2,000 ft²) for flexible asphalt concrete (AC) or porous friction course pavements.

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"

Table 2.2.1 Airfield Pavement Database Network Definition Terminology



2.3 Airfield Pavement Structure

2.3.1 Pavement Structure Types

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

Flexible Asphalt Concrete Surface

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

Asphalt Concrete (AC)

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

Asphalt Concrete Overlaid on Asphalt Concrete (AAC)

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

Asphalt Concrete Overlaid on Portland Cement Concrete (APC)

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



Rigid Portland Cement Concrete Surface

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

Portland Cement Concrete (PCC)

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

Composite Structure – Whitetopping Pavement

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

Conventional Whitetopping (WHT)

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

Thin Whitetopping (TWT)

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

Ultra-Thin Whitetopping (UTW)

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

2.4 Airfield Pavement Work History

2.4.1 Airfield Pavement Record Keeping

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

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

2.5 Airfield Pavement Traffic

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

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

2.6 Airfield Pavement Condition Index (PCI) Survey

2.6.1 PCI Survey Methodology

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

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



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



2.6.2 Pavement Distress Types

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

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

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



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 (c) Pavement Distresses Possible Effects – Flexible Asphalt Concrete-SurfacedAirfields

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						

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

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



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

Classification by Possible Causes									
Load	Load Climate / Durability		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 (f) Pavement Distresses Possible Effects – Rigid Portland Cement Concrete-Surfaced Airfields

	Classification by Possible Effects									
Roughness	Skid / Hydroplaning Potential	FOD Potential	Rate of Deterioration and Maintenance Requirements							
 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					



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

Flexible Asphalt Concrete Pavement Distress Updates

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

Rigid Portland Cement Concrete Pavement Distress Updates

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



Table 2.6.4 Summary of Updates to ASTM D5340-12

Use and Surface Type	Updated Distress	Former Distress in Prior to 5340-10	Deduction Curve	Potential Effect	
AC/AAC/ APC	(52) Raveling - Low	(52) Weathering and Raveling - Low	No Change	N/A	
Airfield	(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'	

Statewide Airfield Pavement Management Program



Chapter 3



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

3.1 Airfield Pavement Network Information

3.1.1 Previous and/or Anticipated Airfield Pavement Construction

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

Year	General Work Description
2019	AP CUSTOMS, TW P7 - Reconstruction
2018	TW P6 - New Construction

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.

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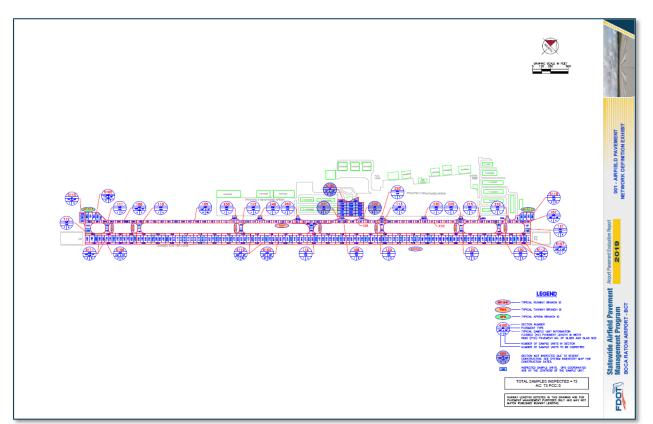
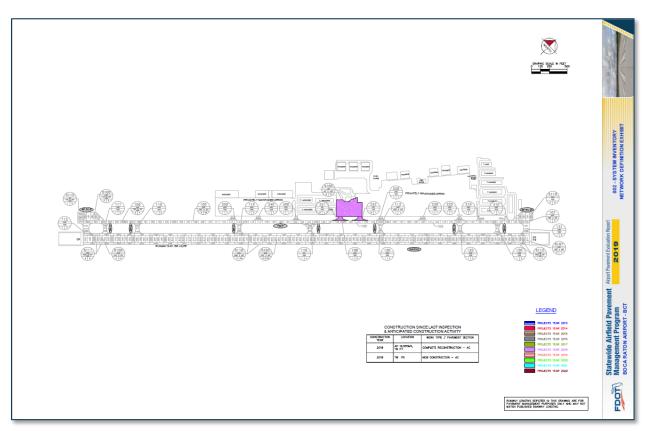


Figure 3.1.1 (a) 2019 Airfield Pavement Network Definition Exhibit

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





Boca Raton Airport (BCT)

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

3.1.2 Estimated Pavement Age

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

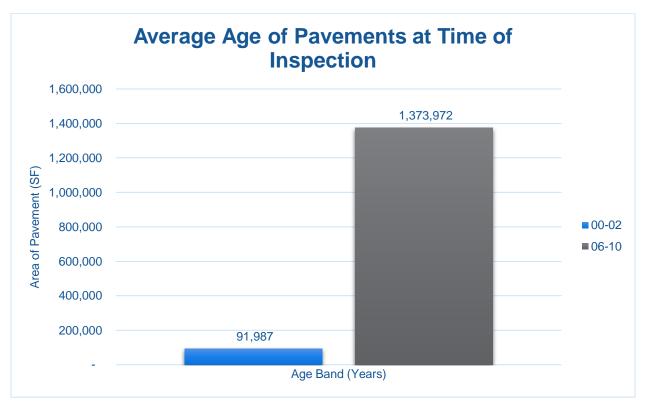


Figure 3.1.2 Average Age of Pavements at Inspection

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

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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.

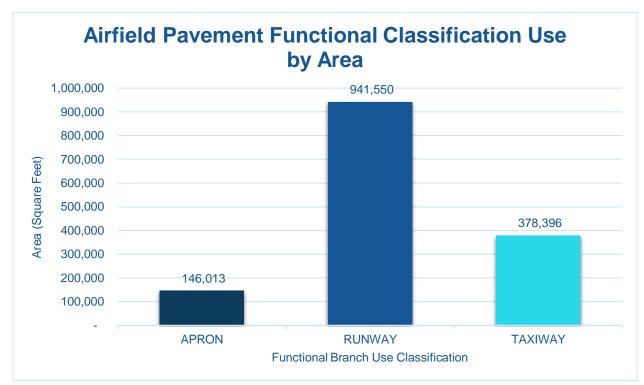


Figure 3.1.3 Airfield Pavement Functional Classification Use by Area



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.

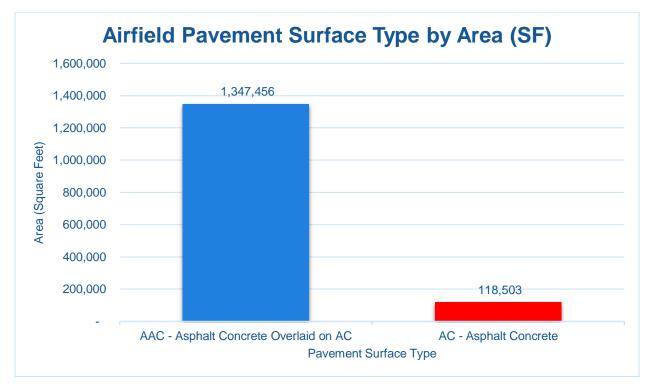
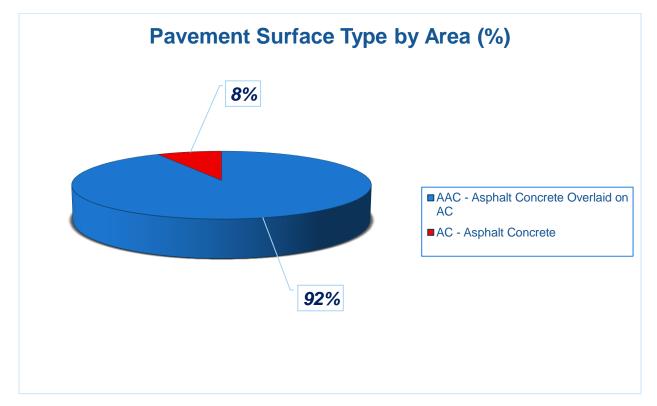


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)



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.

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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
вст	CUSTOMS APRON	AP CUSTOMS	APRON	4105	360	235	82,166	AC	2/24/2018
BCT	RUN-UP APRON 23	AP RU 23	APRON	5110	240	110	25,516	AAC	1/1/2010
BCT	RUN-UP APRON 5	AP RU 5	APRON	5105	240	120	26,544	AAC	1/1/2010
BCT	RUN-UP APRON 5	AP RU 5	APRON	5115	150	75	11,787	AC	1/1/2010
BCT	RUNWAY 5-23	RW 5-23	RUNWAY	6105	5,200	100	520,000	AAC	1/1/2010
BCT	RUNWAY 5-23	RW 5-23	RUNWAY	6106	725	100	72,700	AAC	1/1/2010
BCT	RUNWAY 5-23	RW 5-23	RUNWAY	6107	350	100	35,000	AAC	1/1/2010
BCT	RUNWAY 5-23	RW 5-23	RUNWAY	6110	10,400	25	260,000	AAC	1/1/2010
BCT	RUNWAY 5-23	RW 5-23	RUNWAY	6111	1,450	25	36,350	AAC	1/1/2010
BCT	RUNWAY 5-23	RW 5-23	RUNWAY	6112	700	25	17,500	AAC	1/1/2010
BCT	TAXIWAY A	TW A	TAXIWAY	130	145	45	8,671	AAC	1/1/2010
BCT	TAXIWAY B	TW B	TAXIWAY	125	145	40	9,396	AAC	1/1/2010
BCT	TAXIWAY C	TW C	TAXIWAY	120	145	40	7,946	AAC	1/1/2010
BCT	TAXIWAY C	TW C	TAXIWAY	220	50	35	3,501	AAC	1/1/2010
BCT	TAXIWAY E	TW E	TAXIWAY	116	145	60	14,729	AC	1/1/2010
ВСТ	TAXIWAY F	TW F	TAXIWAY	115	145	40	7,946	AAC	1/1/2010
BCT	TAXIWAY G	TW G	TAXIWAY	110	145	45	8,671	AAC	1/1/2010
ВСТ	TAXIWAY H	TW H	TAXIWAY	111	145	40	7,946	AAC	1/1/2010
ВСТ	TAXIWAY P	TW P	TAXIWAY	105	4,930	40	193,060	AAC	1/1/2010
BCT	TAXIWAY P	TW P	TAXIWAY	106	725	40	29,080	AAC	1/1/2010
BCT	TAXIWAY P	TW P	TAXIWAY	107	400	40	14,241	AAC	1/1/2010
BCT	TAXIWAY P	TW P	TAXIWAY	108	225	40	10,940	AAC	1/1/2010
ВСТ	TAXIWAY P	TW P	TAXIWAY	112	145	80	12,673	AAC	1/1/2010
ВСТ	TAXIWAY P	TW P	TAXIWAY	113	50	40	4,000	AAC	1/1/2010
ВСТ	TAXIWAY P	TW P	TAXIWAY	131	145	12,673	12,673	AAC	1/1/2010

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Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
ВСТ	TAXIWAY P10	TW P10	TAXIWAY	250	60	56	4,078	AAC	1/1/2010
вст	TAXIWAY P2	TW P2	TAXIWAY	210	59	30	2,572	AAC	1/1/2010
BCT	TAXIWAY P3	TW P3	TAXIWAY	215	61	20	1,488	AAC	1/1/2010
BCT	TAXIWAY P4	TW P4	TAXIWAY	225	55	40	3,670	AAC	1/1/2010
вст	TAXIWAY P5	TW P5	TAXIWAY	230	60	55	4,056	AAC	1/1/2010
вст	TAXIWAY P6	TW P6	TAXIWAY	222	55	50	4,897	AC	2/24/2018
вст	TAXIWAY P7	TW P7	TAXIWAY	221	55	50	4,924	AC	2/24/2018
вст	TAXIWAY P8	TW P8	TAXIWAY	260	60	40	3,165	AAC	1/1/2010
вст	TAXIWAY P9	TW P9	TAXIWAY	240	60	56	4,073	AAC	1/1/2010



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Statewide Airfield Pavement Management Program



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 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.

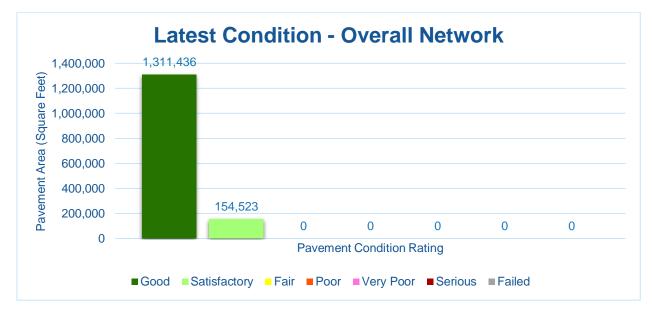


Figure 4.1.1 Latest Condition – Overall Network

4.1.2 Branch-Level Analysis

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

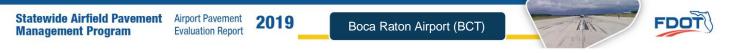
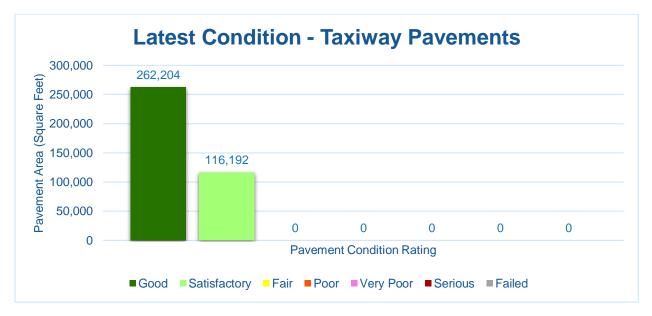
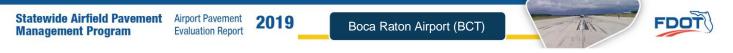






Figure 4.1.2 (b) Latest Condition – Taxiway Pavements











4.1.3 Section-Level Analysis

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

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

Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI % Climate	PCI % Load	PCI % Other	Sample Units Inspected	Total Sample Units in Section
вст	AP CUSTOMS	CUSTOMS APRON	APRON	4105	82,166	AC	100	Good	0%	0%	0%	0	17
вст	AP RU 23	RUN-UP APRON 23	APRON	5110	25,516	AAC	88	Good	100%	0%	0%	2	5
вст	AP RU 5	RUN-UP APRON 5	APRON	5105	26,544	AAC	80	Satisfactory	100%	0%	0%	2	5
вст	AP RU 5	RUN-UP APRON 5	APRON	5115	11,787	AC	79	Satisfactory	100%	0%	0%	1	3
вст	RW 5-23	RUNWAY 5-23	RUNWAY	6105	520,000	AAC	92	Good	100%	0%	0%	21	104
BCT	RW 5-23	RUNWAY 5-23	RUNWAY	6106	72,700	AAC	93	Good	100%	0%	0%	3	14
вст	RW 5-23	RUNWAY 5-23	RUNWAY	6107	35,000	AAC	96	Good	100%	0%	0%	2	7
вст	RW 5-23	RUNWAY 5-23	RUNWAY	6110	260,000	AAC	91	Good	100%	0%	0%	11	52
вст	RW 5-23	RUNWAY 5-23	RUNWAY	6111	36,350	AAC	90	Good	100%	0%	0%	2	8
вст	RW 5-23	RUNWAY 5-23	RUNWAY	6112	17,500	AAC	100	Good	100%	0%	0%	1	4
вст	TW A	ΤΑΧΙΨΑΥ Α	TAXIWAY	130	8,671	AAC	81	Satisfactory	100%	0%	0%	1	2
ВСТ	TW B	TAXIWAY B	TAXIWAY	125	9,396	AAC	85	Satisfactory	100%	0%	0%	1	2
вст	TW C	TAXIWAY C	TAXIWAY	120	7,946	AAC	82	Satisfactory	100%	0%	0%	1	2
ВСТ	TW C	TAXIWAY C	TAXIWAY	220	3,501	AAC	83	Satisfactory	100%	0%	0%	1	1
вст	TW E	TAXIWAY E	TAXIWAY	116	14,729	AC	71	Satisfactory	46%	0%	54%	1	4
ВСТ	TW F	TAXIWAY F	TAXIWAY	115	7,946	AAC	86	Good	100%	0%	0%	1	2
вст	TW G	TAXIWAY G	TAXIWAY	110	8,671	AAC	85	Satisfactory	100%	0%	0%	1	2
вст	TW H	TAXIWAY H	TAXIWAY	111	7,946	AAC	82	Satisfactory	100%	0%	0%	1	2
вст	TW P	TAXIWAY P	TAXIWAY	105	193,060	AAC	87	Good	100%	0%	0%	6	48
ВСТ	TW P	TAXIWAY P	TAXIWAY	106	29,080	AAC	90	Good	100%	0%	0%	2	7
вст	TW P	TAXIWAY P	TAXIWAY	107	14,241	AAC	89	Good	100%	0%	0%	1	4
вст	TW P	TAXIWAY P	TAXIWAY	108	10,940	AAC	80	Satisfactory	100%	0%	0%	1	3
вст	TW P	TAXIWAY P	TAXIWAY	112	12,673	AAC	85	Satisfactory	100%	0%	0%	1	2
ВСТ	TW P	TAXIWAY P	TAXIWAY	113	4,000	AAC	90	Good	100%	0%	0%	1	1
вст	TW P	TAXIWAY P	TAXIWAY	131	12,673	AAC	84	Satisfactory	100%	0%	0%	1	2
ВСТ	TW P10	TAXIWAY P10	TAXIWAY	250	4,078	AAC	81	Satisfactory	100%	0%	0%	1	1
вст	TW P2	TAXIWAY P2	TAXIWAY	210	2,572	AAC	83	Satisfactory	100%	0%	0%	1	1
ВСТ	TW P3	TAXIWAY P3	TAXIWAY	215	1,488	AAC	77	Satisfactory	100%	0%	0%	1	1
вст	TW P4	TAXIWAY P4	TAXIWAY	225	3,670	AAC	85	Satisfactory	100%	0%	0%	1	1
ВСТ	TW P5	TAXIWAY P5	TAXIWAY	230	4,056	AAC	88	Good	100%	0%	0%	1	1
вст	TW P6	TAXIWAY P6	TAXIWAY	222	4,897	AC	100	Good	0%	0%	0%	0	1
ВСТ	TW P7	TAXIWAY P7	TAXIWAY	221	4,924	AC	100	Good	0%	0%	0%	0	1
вст	TW P8	TAXIWAY P8	TAXIWAY	260	3,165	AAC	84	Satisfactory	100%	0%	0%	1	1
вст	TW P9	TAXIWAY P9	TAXIWAY	240	4,073	AAC	85	Satisfactory	100%	0%	0%	1	1

Table 4.1.3 Latest Pavement Condition Index Summary

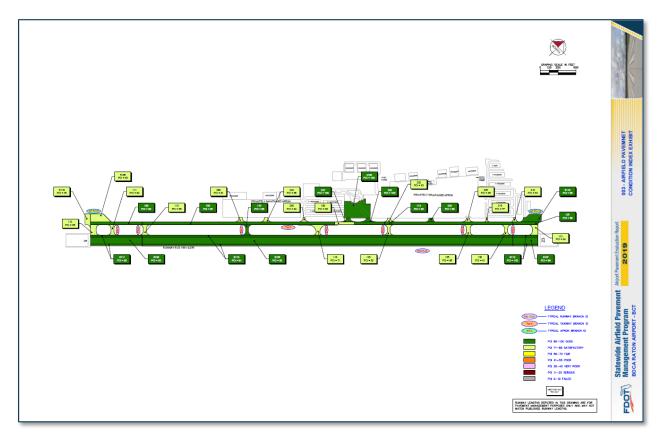


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Figure 4.1.3 is an inset view of the 2019 Airfield Pavement Condition Index Exhibit that visually represents the results of the latest PCI Survey inspection. A large format exhibit is located in **Appendix C Technical Exhibits.**







4.2 Summary of Pavement Condition Evaluation Results

4.2.1 Network-Level Observations

The field PCI Survey performed at Boca Raton Airport (BCT) was completed in May of 2019. The resulting overall area-weighted average PCI value was 90 representing a condition rating of Good. Boca Raton Airport is serviced by one runway; Runway 5-23 is 150-ft wide and 6,276-ft long. Taxiway P6, Taxiway P7, and the Customs Apron were not inspected due to recent construction. The PCI has been set to 100, a condition rating of Good.

Based on the FAA 5010 Report as of 09/12/2019 the Airport has reported 81,550 operations for 12 months ending 04/03/2018.

4.2.2 Branch-Level Observations

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

Runway 5-23

Runway 5-23 consists of 6 sections constructed of AAC. The last construction year for Runway 5-23 was 2010. The area-weighted average PCI for Runway 5-23 is 92 representing a Good condition rating. The pavement distresses observed were related to the Climate distress classification. Distresses observed on Runway 5-23 consist of Longitudinal & Transverse Cracking, Raveling, and Weathering.

Taxiway P

Taxiway P consists of 7 sections constructed of AAC. The last construction year for Taxiway P was 2010. The area-weighted average PCI for Taxiway P is 86 representing a Good condition rating. The pavement distresses observed were related to the Climate distress classification. Distresses observed on Taxiway P consist of Bleeding, Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

Run-Up Apron 5

Run-Up Apron 5 consists of 2 sections constructed of AC and AAC. The last construction year for Run-Up Apron 5 was 2010. The area-weighted average PCI for Run-Up Apron 5 is 79 representing a Satisfactory condition rating. The pavement distresses observed were related to the Climate distress classification. Distresses observed on Run-Up Apron 5 consist of Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Area-Weighted Average PCI	Condition Rating
Runway	92	Good
Taxiway	85	Satisfactory
Apron	92	Good



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 2020 through January 2029.

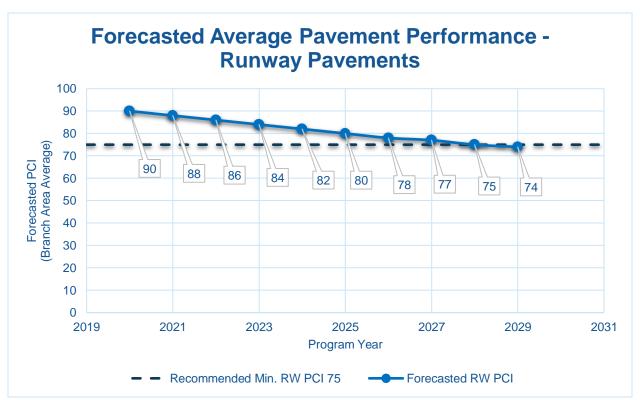


Figure 4.3.2 (a) Forecasted Runway Pavement Performance





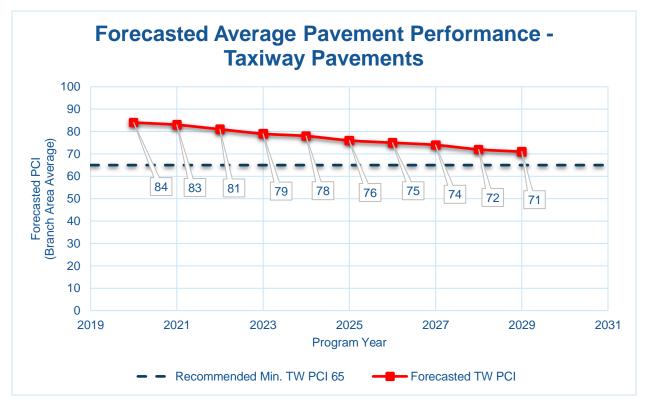
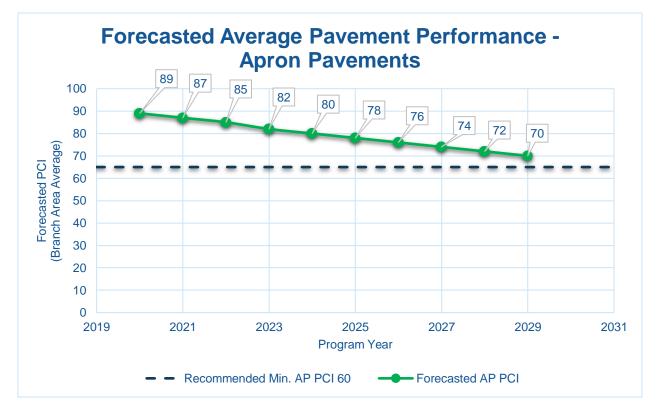


Figure 4.3.2 (c) Forecasted Apron Pavement Performance





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.

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Table 4.3.3 Forecasted PCI 2020-2029

Network	Branch ID	Section											
ID	Branch ID	ID	Last PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
BCT	AP CUSTOMS	4105	100	95	93	91	88	86	84	82	80	78	76
BCT	AP RU 23	5110	88	86	84	82	80	77	75	73	71	69	67
BCT	AP RU 5	5105	80	78	76	74	72	69	67	65	63	61	59
BCT	AP RU 5	5115	79	77	75	73	72	70	69	67	66	64	63
ВСТ	RW 5-23	6105	92	90	88	86	84	82	80	78	77	75	74
ВСТ	RW 5-23	6106	93	91	89	87	85	83	81	79	77	76	75
BCT	RW 5-23	6107	96	94	91	89	87	85	83	81	79	78	76
BCT	RW 5-23	6110	91	89	87	85	83	81	79	78	76	75	73
BCT	RW 5-23	6111	90	88	86	84	82	80	79	77	76	74	73
BCT	RW 5-23	6112	100	98	95	93	90	88	86	84	82	80	79
BCT	TW A	130	81	80	78	77	75	74	73	71	70	69	68
BCT	TW B	125	85	83	82	80	78	77	76	74	73	72	71
BCT	TW C	120	82	80	79	77	76	75	73	72	71	70	69
ВСТ	TW C	220	83	81	80	78	77	75	74	73	72	70	69
BCT	TW E	116	71	70	68	67	66	65	64	62	61	60	59
BCT	TW F	115	86	84	83	81	79	78	76	75	74	72	71
BCT	TW G	110	85	83	82	80	78	77	76	74	73	72	71
BCT	TW H	111	82	80	79	77	76	75	73	72	71	70	69
BCT	TW P	105	87	85	84	82	80	79	77	76	74	73	72
ВСТ	TW P	106	90	88	86	84	83	81	79	78	76	75	74
ВСТ	TW P	107	89	87	85	84	82	80	79	77	76	74	73
ВСТ	TW P	108	80	79	77	76	74	73	72	71	70	68	67
BCT	TW P	112	85	83	82	80	78	77	76	74	73	72	71
ВСТ	TW P	113	90	88	86	84	83	81	79	78	76	75	74
ВСТ	TW P	131	84	82	81	79	78	76	75	74	72	71	70

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Network	Drevel ID	Section						Forecas	sted PCI				
ID	Branch ID	ID	Last PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
вст	TW P10	250	81	80	78	77	75	74	73	71	70	69	68
BCT	TW P2	210	83	81	80	78	77	75	74	73	72	70	69
BCT	TW P3	215	77	76	74	73	72	71	69	68	67	66	65
вст	TW P4	225	85	83	82	80	78	77	76	74	73	72	71
BCT	TW P5	230	88	86	84	83	81	79	78	76	75	74	72
вст	TW P6	222	100	96	95	93	91	90	88	87	85	83	82
BCT	TW P7	221	100	96	95	93	91	90	88	87	85	83	82
вст	TW P8	260	84	82	81	79	78	76	75	74	72	71	70
ВСТ	TW P9	240	85	83	82	80	78	77	76	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.

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Chapter 5



Chapter 5 – Localized Maintenance and Repair Planning

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

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

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

5.1 Localized Maintenance and Repair

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

Localized Stopgap/Safety Maintenance and Repair

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

Localized Preventive Maintenance and Repair

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



5.2 Localized Maintenance and Repair Policy

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

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

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

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

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

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

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



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

Code	Name	Cost	Units
FDOT-SS-LO	FDOT - SURFACE SEAL	\$0.55	SqFt
FDOT-ML-AC	FDOT - MILLING - AC	\$2.00	SqFt
FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	\$2.00	Ft
FDOT-CS-AC	FDOT - CRACK SEALING - AC	\$3.00	Ft
FDOT-MO-PV	FDOT - MONITOR	\$0.00	SqFt
FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	\$9.00	SqFt
FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	\$4.00	SqFt

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

Code	Name	Cost	Units
FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	\$150.00	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 (a)** summarizes the anticipated Localized Maintenance and Repair efforts based on the PCI Survey Inspection efforts performed at this airport as part of this SAPMP System Update. The following table depicts planning-level costs rounded to the nearest ten dollars.

Work Description	Work Category	Rough Estimate of Work Quantity	Work Units	Planning Material Cost	
FDOT - SURFACE SEAL	PREVENTIVE	31,660	SqFt	\$	7,420.00
FDOT - PATCHING - AC FULL DEPTH	PREVENTIVE	840	SqFt	\$	7,530.00
FDOT - PATCHING - AC PARTIAL DEPTH	PREVENTIVE	140	SqFt	\$	560.00

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

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

Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost	
BCT	AP CUSTOMS	4105	82,166	100	100	\$	-
BCT	AP RU 23	5110	25,516	88	91	\$	220.00
BCT	AP RU 5	5105	26,544	80	82	\$	220.00
ВСТ	AP RU 5	5115	11,787	79	83	\$	130.00

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Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
BCT	RW 5-23	6105	520,000	92	95	\$ 4,680.00
BCT	RW 5-23	6106	72,700	93	95	\$ 440.00
BCT	RW 5-23	6107	35,000	96	100	\$ 500.00
BCT	RW 5-23	6110	260,000	91	98	\$ 9,030.00
BCT	RW 5-23	6111	36,350	90	94	\$ 430.00
BCT	RW 5-23	6112	17,500	100	100	\$ -
ВСТ	TW A	130	8,671	81	86	\$ 150.00
BCT	TW B	125	9,396	85	90	\$ 160.00
ВСТ	TW C	120	7,946	82	86	\$ 90.00
BCT	TW C	220	3,501	83	87	\$ 40.00
ВСТ	TW E	116	14,729	71	80	\$ 7,530.00
BCT	TW F	115	7,946	86	90	\$ 90.00
BCT	TW G	110	8,671	85	88	\$ 50.00
BCT	TW H	111	7,946	82	86	\$ 90.00
ВСТ	TW P	105	193,060	87	89	\$ 890.00
BCT	TW P	106	29,080	90	90	\$ -
BCT	TW P	107	14,241	89	89	\$ -
BCT	TW P	108	10,940	80	83	\$ 70.00
BCT	TW P	112	12,673	85	90	\$ 210.00
BCT	TW P	113	4,000	90	94	\$ 50.00
BCT	TW P	131	12,673	84	86	\$ 70.00
BCT	TW P10	250	4,078	81	85	\$ 50.00
BCT	TW P2	210	2,572	83	90	\$ 140.00
BCT	TW P3	215	1,488	77	82	\$ 40.00
BCT	TW P4	225	3,670	85	89	\$ 50.00
ВСТ	TW P5	230	4,056	88	92	\$ 50.00
ВСТ	TW P6	222	4,897	100	100	\$ -
BCT	TW P7	221	4,924	100	100	\$ -
BCT	TW P8	260	3,165	84	92	\$ 110.00
BCT	TW P9	240	4,073	85	89	\$ 50.00

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

Table 5.3 (c) Summary of Localized Maintenance

Work Category	Cost			
Preventive	\$	25,510.00		
Stopgap	\$	-		
Planning-Level Localized M&R Needs =	\$	25,510.00		

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Chapter 6

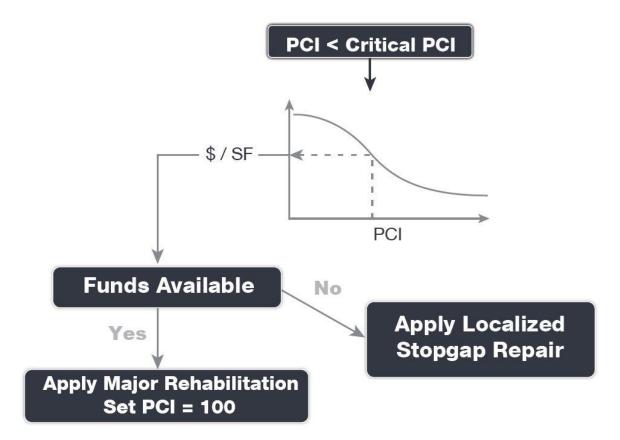


Chapter 6 – Major Rehabilitation Planning

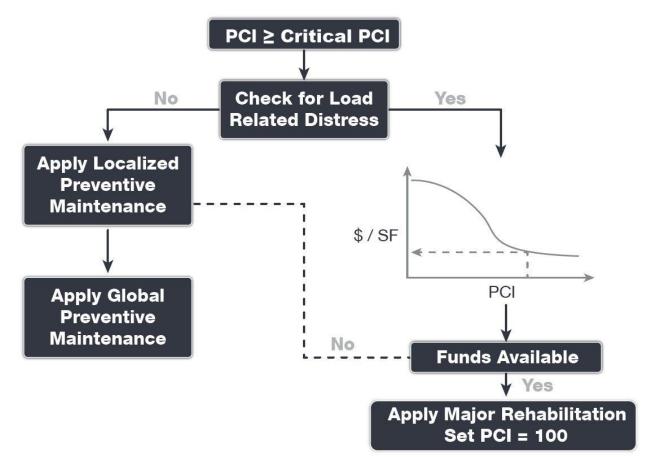
6.1 Major Rehabilitation

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

Figures 6.1 (a) Major Rehabilitation Planning Decision Diagram, PCI ≤ Critical PCI



Figures 6.1 (b) 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 plan.
- 3. Apply the selected localized policy to the pavement sections for a range of PCI.
- 4. Compute the unit cost per area for each PCI range.
- 5. Plot the cost versus the PCI.
- 6. Determine the Critical PCI based on the point where the cost is insignificant.

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

6.1.2 FDOT Recommended Minimum Service-Level PCI

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

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	65	Ground Service Equipment Non-Aircraft Operations (e.g. fueling)

Table 6.1.2 FDOT Recommended Minimum Service-Level PCI

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 RL Airport Type requirements; no pavement design has been performed in accordance with AC 150/5320-6F for the determined conceptual sections.

Rehabilitation Type	Reliever (RL) Airport			
AC Restoration	75% Mill and Overlay P-101 AC Milling (3")			
Combination of asphalt pavement milling and overlay with 25% of the areas subject to full-depth reconstruction.	P-603 Bituminous Táck P-401 (HMA) (3")			
PCI = 41 to 65	25% AC Reconstruction P-101 Pavement Removal P-152 Subgrade (12") P-211 Base (8") P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (4") <i>Excludes any paved shoulder features.</i>			
AC Reconstruction	P-101 Pavement Removal P-152 Subgrade (12") P-211 Base (8")			
Full-depth asphalt pavement section reconstruction.	P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (4") <i>Excludes any paved shoulder features.</i>			
PCI = 40 or less				

Table 6.2.1 (a) Conceptual Pavement Section for Major Rehabilitation – Flexible AsphaltConcrete



Rehabilitation Type	Reliever (RL) 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 (12") P-211 Base (if needed, typical) (6") P-501 Rigid PCC (15") *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 (12") P-211 Base (6") P-501 Rigid PCC (14")

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

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

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



6.2.2 Major Rehabilitation Planning-Level Unit Costs

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

Rehabilitation Type	PCI Range	Flexible Asphalt Concrete Cost Per SF		 tland Cement Cost per SF
Restoration	41 to 65	\$	9.50	\$ 13.50
Reconstruction	0 to 40	\$	12.50	\$ 20.00

Table 6.2.2 Reliever (RL) Major Rehabilitation Planning-Level Unit Cost by Pavement Type

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.

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2025	BCT	TW E	116	AC	14,729	64	AC Restoration	\$ 140,000.00
2027	BCT	AP RU 5	5105	AAC	26,544	63	AC Restoration	\$ 253,000.00
2028	ВСТ	AP RU 5	5115	AC	11,787	64	AC Restoration	\$ 112,000.00

Table 6.3.1 10-Year Major Rehabilitation Needs

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

The following **Figure 6.3.1 (a)** summarizes the section-level major rehabilitation needs for a 10year period between 2020 and 2029. **Figure 6.3.1 (b)** provides an inset view of Airfield Pavement Major Rehabilitation Exhibit, a large format exhibit is located in **Appendix C Technical Exhibits**. The exhibit graphically depicts the Major Rehabilitation Needs with rounded costs.

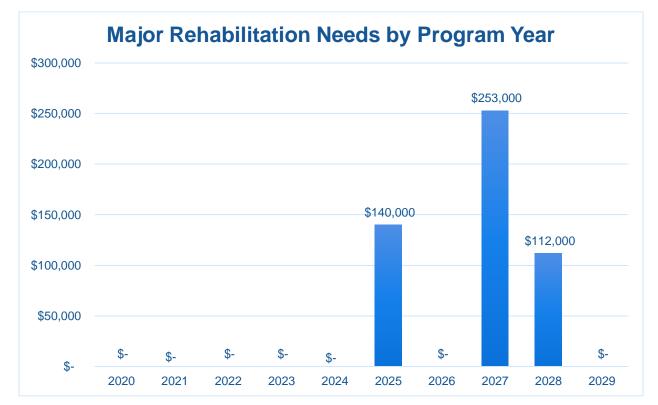
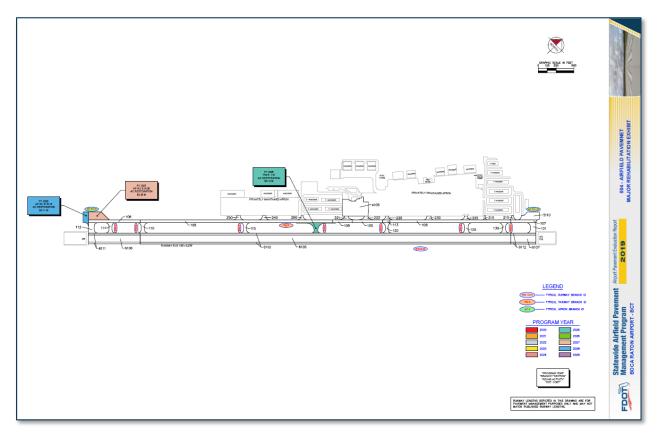


Figure 6.3.1 (a) 10-Year Major Rehabilitation Needs by Program Year



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Statewide Airfield Pavement Management Program



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

7.1.4 Pavement Management System

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

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



7.2 Supporting Documents

001 – Airfield Pavement Network Definition Exhibit

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

002 – Airfield Pavement System Inventory Exhibit

The Airfield Pavement System Inventory Exhibit 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.



7.3 Conclusion

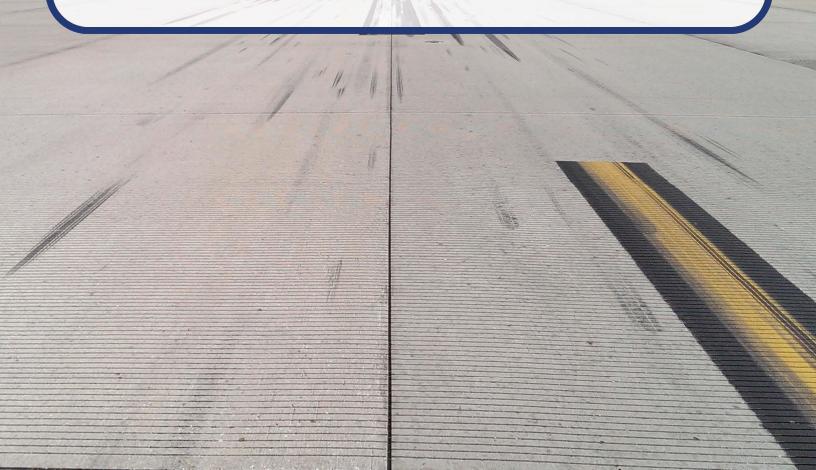
The FDOT SAPMP Update Phase 2 2018-2019 was completed for the airport on behalf of the FDOT ASO in accordance with the Advisory Circulars **150/5380-7B** "Airport Pavement Management Program (PMP)" and **150/5380-6C** "Guidelines and Procedures for Maintenance of Airport Pavements." FDOT's implementation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

Statewide Airfield Pavement Management Program



Appendix A

Airfield Pavement Analysis Tables



2019

Boca Raton Airport (BCT)



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
ВСТ	CUSTOMS APRON	AP CUSTOMS	APRON	4105	360	235	82,166	AC	2/24/2018
ВСТ	RUN-UP APRON 23	AP RU 23	APRON	5110	240	110	25,516	AAC	1/1/2010
ВСТ	RUN-UP APRON 5	AP RU 5	APRON	5105	240	120	26,544	AAC	1/1/2010
ВСТ	RUN-UP APRON 5	AP RU 5	APRON	5115	150	75	11,787	AC	1/1/2010
ВСТ	RUNWAY 5-23	RW 5-23	RUNWAY	6105	5,200	100	520,000	AAC	1/1/2010
ВСТ	RUNWAY 5-23	RW 5-23	RUNWAY	6106	725	100	72,700	AAC	1/1/2010
вст	RUNWAY 5-23	RW 5-23	RUNWAY	6107	350	100	35,000	AAC	1/1/2010
вст	RUNWAY 5-23	RW 5-23	RUNWAY	6110	10,400	25	260,000	AAC	1/1/2010
вст	RUNWAY 5-23	RW 5-23	RUNWAY	6111	1,450	25	36,350	AAC	1/1/2010
вст	RUNWAY 5-23	RW 5-23	RUNWAY	6112	700	25	17,500	AAC	1/1/2010
ВСТ	TAXIWAY A	TW A	TAXIWAY	130	145	45	8,671	AAC	1/1/2010
вст	TAXIWAY B	TW B	TAXIWAY	125	145	40	9,396	AAC	1/1/2010
вст	TAXIWAY C	TW C	TAXIWAY	120	145	40	7,946	AAC	1/1/2010
вст	TAXIWAY C	TW C	TAXIWAY	220	50	35	3,501	AAC	1/1/2010
вст	TAXIWAY E	TW E	TAXIWAY	116	145	60	14,729	AC	1/1/2010
вст	TAXIWAY F	TW F	TAXIWAY	115	145	40	7,946	AAC	1/1/2010
вст	TAXIWAY G	TW G	TAXIWAY	110	145	45	8,671	AAC	1/1/2010
вст	TAXIWAY H	TW H	TAXIWAY	111	145	40	7,946	AAC	1/1/2010
вст	TAXIWAY P	TW P	TAXIWAY	105	4,930	40	193,060	AAC	1/1/2010
вст	TAXIWAY P	TW P	TAXIWAY	106	725	40	29,080	AAC	1/1/2010
вст	TAXIWAY P	TW P	TAXIWAY	107	400	40	14,241	AAC	1/1/2010
вст	TAXIWAY P	TW P	TAXIWAY	108	225	40	10,940	AAC	1/1/2010
вст	TAXIWAY P	TW P	TAXIWAY	112	145	80	12,673	AAC	1/1/2010
вст	TAXIWAY P	TW P	TAXIWAY	113	50	40	4,000	AAC	1/1/2010
вст	TAXIWAY P	TW P	TAXIWAY	131	145	12,673	12,673	AAC	1/1/2010
вст	TAXIWAY P10	TW P10	TAXIWAY	250	60	56	4,078	AAC	1/1/2010
вст	TAXIWAY P2	TW P2	TAXIWAY	210	59	30	2,572	AAC	1/1/2010
вст	TAXIWAY P3	TW P3	TAXIWAY	215	61	20	1,488	AAC	1/1/2010
ВСТ	TAXIWAY P4	TW P4	TAXIWAY	225	55	40	3,670	AAC	1/1/2010
вст	TAXIWAY P5	TW P5	TAXIWAY	230	60	55	4,056	AAC	1/1/2010
вст	TAXIWAY P6	TW P6	TAXIWAY	222	55	50	4,897	AC	2/24/2018
вст	TAXIWAY P7	TW P7	TAXIWAY	221	55	50	4,924	AC	2/24/2018
вст	TAXIWAY P8	TW P8	TAXIWAY	260	60	40	3,165	AAC	1/1/2010
вст	TAXIWAY P9	TW P9	TAXIWAY	240	60	56	4,073	AAC	1/1/2010



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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
BCT	RUNWAY 5-23	RUNWAY	6105	520,000	92	Good
BCT	RUNWAY 5-23	RUNWAY	6106	72,700	93	Good
BCT	RUNWAY 5-23	RUNWAY	6107	35,000	96	Good
ВСТ	RUNWAY 5-23	RUNWAY	6110	260,000	91	Good
BCT	RUNWAY 5-23	RUNWAY	6111	36,350	90	Good
ВСТ	RUNWAY 5-23	RUNWAY	6112	17,500	100	Good
ВСТ	TAXIWAY A	TAXIWAY	130	8,671	81	Satisfactory
ВСТ	TAXIWAY B	TAXIWAY	125	9,396	85	Satisfactory
ВСТ	TAXIWAY C	TAXIWAY	120	7,946	82	Satisfactory
вст	TAXIWAY C	TAXIWAY	220	3,501	83	Satisfactory
ВСТ	TAXIWAY E	TAXIWAY	116	14,729	71	Satisfactory
BCT	TAXIWAY F	TAXIWAY	115	7,946	86	Good
BCT	TAXIWAY G	TAXIWAY	110	8,671	85	Satisfactory
ВСТ	TAXIWAY H	TAXIWAY	111	7,946	82	Satisfactory
BCT	TAXIWAY P	TAXIWAY	105	193,060	87	Good
ВСТ	TAXIWAY P	TAXIWAY	106	29,080	90	Good
ВСТ	TAXIWAY P	TAXIWAY	107	14,241	89	Good
ВСТ	TAXIWAY P	TAXIWAY	108	10,940	80	Satisfactory
BCT	TAXIWAY P	TAXIWAY	112	12,673	85	Satisfactory
ВСТ	TAXIWAY P	TAXIWAY	113	4,000	90	Good
ВСТ	TAXIWAY P	TAXIWAY	131	12,673	84	Satisfactory
ВСТ	TAXIWAY P10	TAXIWAY	250	4,078	81	Satisfactory
ВСТ	TAXIWAY P2	TAXIWAY	210	2,572	83	Satisfactory
ВСТ	TAXIWAY P3	TAXIWAY	215	1,488	77	Satisfactory
ВСТ	TAXIWAY P4	TAXIWAY	225	3,670	85	Satisfactory
ВСТ	TAXIWAY P5	TAXIWAY	230	4,056	88	Good
ВСТ	TAXIWAY P6	TAXIWAY	222	4,897	100	Good
ВСТ	TAXIWAY P7	TAXIWAY	221	4,924	100	Good
ВСТ	TAXIWAY P8	TAXIWAY	260	3,165	84	Satisfactory
ВСТ	TAXIWAY P9	TAXIWAY	240	4,073	85	Satisfactory
ВСТ	CUSTOMS APRON	APRON	4105	82,166	100	Good
BCT	RUN-UP APRON 5	APRON	5105	26,544	80	Satisfactory
вст	RUN-UP APRON 23	APRON	5110	25,516	88	Good
вст	RUN-UP APRON 5	APRON	5115	11,787	79	Satisfactory

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

2019

Boca Raton Airport (BCT)



Table A-3 Forecasted PCI 2020-2029

Network		Section	Last					Forecas	sted PCI				
ID	Branch ID	ID	PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ВСТ	AP CUSTOMS	4105	100	95	93	91	88	86	84	82	80	78	76
BCT	AP RU 23	5110	88	86	84	82	80	77	75	73	71	69	67
ВСТ	AP RU 5	5105	80	78	76	74	72	69	67	65	63	61	59
ВСТ	AP RU 5	5115	79	77	75	73	72	70	69	67	66	64	63
ВСТ	RW 5-23	6105	92	90	88	86	84	82	80	78	77	75	74
ВСТ	RW 5-23	6106	93	91	89	87	85	83	81	79	77	76	75
ВСТ	RW 5-23	6107	96	94	91	89	87	85	83	81	79	78	76
вст	RW 5-23	6110	91	89	87	85	83	81	79	78	76	75	73
ВСТ	RW 5-23	6111	90	88	86	84	82	80	79	77	76	74	73
ВСТ	RW 5-23	6112	100	98	95	93	90	88	86	84	82	80	79
ВСТ	TW A	130	81	80	78	77	75	74	73	71	70	69	68
ВСТ	TW B	125	85	83	82	80	78	77	76	74	73	72	71
ВСТ	TW C	120	82	80	79	77	76	75	73	72	71	70	69
ВСТ	TW C	220	83	81	80	78	77	75	74	73	72	70	69
ВСТ	TW E	116	71	70	68	67	66	65	64	62	61	60	59
ВСТ	TW F	115	86	84	83	81	79	78	76	75	74	72	71
ВСТ	TW G	110	85	83	82	80	78	77	76	74	73	72	71
ВСТ	TW H	111	82	80	79	77	76	75	73	72	71	70	69
ВСТ	TW P	105	87	85	84	82	80	79	77	76	74	73	72
ВСТ	TW P	106	90	88	86	84	83	81	79	78	76	75	74
ВСТ	TW P	107	89	87	85	84	82	80	79	77	76	74	73
ВСТ	TW P	108	80	79	77	76	74	73	72	71	70	68	67
ВСТ	TW P	112	85	83	82	80	78	77	76	74	73	72	71
ВСТ	TW P	113	90	88	86	84	83	81	79	78	76	75	74
ВСТ	TW P	131	84	82	81	79	78	76	75	74	72	71	70
ВСТ	TW P10	250	81	80	78	77	75	74	73	71	70	69	68
ВСТ	TW P2	210	83	81	80	78	77	75	74	73	72	70	69
ВСТ	TW P3	215	77	76	74	73	72	71	69	68	67	66	65
ВСТ	TW P4	225	85	83	82	80	78	77	76	74	73	72	71
ВСТ	TW P5	230	88	86	84	83	81	79	78	76	75	74	72
ВСТ	TW P6	222	100	96	95	93	91	90	88	87	85	83	82
ВСТ	TW P7	221	100	96	95	93	91	90	88	87	85	83	82
ВСТ	TW P8	260	84	82	81	79	78	76	75	74	72	71	70
ВСТ	TW P9	240	85	83	82	80	78	77	76	74	73	72	71

Work History Report

Pavement Database: FDOT

Network:	BOCA RA	TON AIRP Branch: AP CU	STOM CUST	OMS APRO	Section:	4105 Surface:AC
L.C.D. 2/24/	2018 Us	se: APRON Rank: P L	ength: 360	.00 (Ft) Wie	ith: 235.0	0 (Ft) True Area: 82166.00002 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
2/24/2018	CR-AC	Complete Reconstruction - AC	0.00	0.00		
1/1/1995	NC-AC	New Construction - AC				
1/1/1995	ST-SC	Surface Treatment - Seal Coat	16,433.20	0.00		
Network:	BOCA RA	TON AIRP Branch: AP RU	23 RUN-U	UP APRON	Section:	5110 Surface:AAC
L.C.D. 1/1/2	010 Us	se: APRON Rank: P L	ength: 240	.00 (Ft) Wie	dth: 110.0	0 (Ft) True Area: 25516.00000 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1996	IMPORT	BUILT	0.00	2.00		1996: 2" AC ON 6" LIMEROCK
	ED					
	DOCADA	TON AIDD D	5 DIDII		G	5105 0 6
		TON AIRP Branch: AP RU		UP APRON	Section:	
L.C.D. 1/1/2	r	se: APRON Rank: P L	ength: 240	、 <i>/</i>		0 (Ft) True Area: 26544.00000 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010		MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1996	IMPORT ED	BUILT	0.00	2.00		1996: 2" AC ON 6" LIMEROCK
L.C.D. 1/1/2 Work Date	010 Us Work	se: APRON Rank: P L Work Description	ength: 150 Cost	.00 (Ft) Wie Thickness	lth: 75.0 Major	0 (Ft) True Area: 11787.00000 (SqF Comments
	Code	*		(in)	M&R	
1/1/2010	NU-IN	New Construction - Initial	0.00	0.00		4" P-401, 12" P-211, 6" P-152
N. d. a. l. a	DOCADA				G	
		TON AIRP Branch: RW 5-2		VAY 5-23	Section:	6105 Surface:AAC
L.C.D. 1/1/2	Work	se: RUNWAY Rank: P L	enorn: v/uu	00 (E4) W.	JAL. 100.0	0 (Et) T A
Work Date			,200	、 <i>/</i>		0 (Ft) True Area: 520000.0001 (SqF
	Code	Work Description	Cost	.00 (Ft) Wie Thickness (in)	ith: 100.0 Major M&R	0 (Ft) True Area: 520000.0001 (SqF Comments
11/1/2018	Code	Work Description Surface Treatment - Seal Coat	_	Thickness (in)	Major	
	Code ST-SC		Cost	Thickness (in)	Major	
	Code ST-SC ML-OV IMPORT	Surface Treatment - Seal Coat	Cost 0.00	Thickness (in) 0.00	Major M&R	Comments
1/1/2010	Code ST-SC ML-OV IMPORT ED IMPORT	Surface Treatment - Seal Coat MILL and OVERLAY	Cost 0.00 0.00	Thickness (in) 0.00 0.00	Major M&R □ ✓	Comments MILL AND OVERLAY: 1.5" P-401,
1/1/2010 1/1/1984	Code ST-SC ML-OV IMPORT ED	Surface Treatment - Seal Coat MILL and OVERLAY OVERLAY OVERLAY	Cost 0.00 0.00 0.00	Thickness (in) 0.00 0.00 2.50	Major M&R	Comments MILL AND OVERLAY: 1.5" P-401, 1984: 2.5" - 6" P-401 OVERLAY
1/1/2010 1/1/1984 1/1/1984	Code ST-SC ML-OV IMPORT ED IMPORT ED	Surface Treatment - Seal Coat MILL and OVERLAY OVERLAY OVERLAY	Cost 0.00 0.00 0.00 0.00	Thickness (in) 0.00 0.00 2.50 0.00	Major M&R	Comments MILL AND OVERLAY: 1.5" P-401, 1984: 2.5" - 6" P-401 OVERLAY SOIL: SP
1/1/2010 1/1/1984 1/1/1984 1/1/1974	Code ST-SC ML-OV IMPORT ED IMPORT ED	Surface Treatment - Seal Coat MILL and OVERLAY OVERLAY OVERLAY BUILT	Cost 0.00 0.00 0.00 0.00 0.00 0.00	Thickness (in) 0.00 0.00 2.50 0.00 2.50	Major M&R	Comments MILL AND OVERLAY: 1.5" P-401, 1984: 2.5" - 6" P-401 OVERLAY SOIL: SP 1974: 2.5" AC ON 6" LIME ROCK BASE
1/1/2010 1/1/1984 1/1/1984 1/1/1974 Network:	Code ST-SC ML-OV IMPORT ED IMPORT ED BOCA RA	Surface Treatment - Seal Coat MILL and OVERLAY OVERLAY OVERLAY BUILT TON AIRP Branch: RW 5-2	Cost 0.00 0.00 0.00 0.00 0.00 23 RUNW	Thickness (in) 0.00 0.00 2.50 0.00 2.50	Major M&R V V V Section:	Comments MILL AND OVERLAY: 1.5" P-401, 1984: 2.5" - 6" P-401 OVERLAY SOIL: SP 1974: 2.5" AC ON 6" LIME ROCK BASE 6106 Surface: AAC
1/1/2010 1/1/1984 1/1/1984 1/1/1974	Code ST-SC ML-OV IMPORT ED IMPORT ED BOCA RA 010 Us Work	Surface Treatment - Seal Coat MILL and OVERLAY OVERLAY OVERLAY BUILT TON AIRP Branch: RW 5-2	Cost 0.00 0.00 0.00 0.00 23 RUNW	Thickness (in) 0.00 0.00 0.00 2.50 0.00 2.50 0.00 2.50 0.00 2.50 0.00 2.50 0.00 0.00 (Ft) Wite Thickness 1	Major M&R V V Section: dth: 100.0 Major	Comments MILL AND OVERLAY: 1.5" P-401, 1984: 2.5" - 6" P-401 OVERLAY SOIL: SP 1974: 2.5" AC ON 6" LIME ROCK BASE 6106 Surface: AAC
1/1/2010 1/1/1984 1/1/1984 1/1/1974 Network: L.C.D. 1/1/2 Work Date	Code ST-SC ML-OV IMPORT ED IMPORT ED BOCA RA 010 Us Work Code	Surface Treatment - Seal Coat MILL and OVERLAY OVERLAY OVERLAY BUILT TON AIRP Branch: RW 5-4 se: RUNWAY Rank: P L Work Description	Cost 0.00 0.00 0.00 0.00 23 RUNW ength: 725 Cost	Thickness (in) 0.00 0.00 0.00 2.50 0.00 2.50 0.00 2.50 0.00 2.50 0.00 2.50 0.00 0.00 2.50 0.00 2.50 0.00 2.50 0.00 (Ft) Wide Thickness (in) (in)	Major M&R V V Section: dth: 100.0	Comments MILL AND OVERLAY: 1.5" P-401, 1984: 2.5" - 6" P-401 OVERLAY SOIL: SP 1974: 2.5" AC ON 6" LIME ROCK BASE 6106 Surface: AAC 0 (Ft) True Area: 72700.00002 (SqI
1/1/2010 1/1/1984 1/1/1984 1/1/1974 Network: L.C.D. 1/1/2	Code ST-SC ML-OV IMPORT ED IMPORT ED BOCA RA 010 Us Work	Surface Treatment - Seal Coat MILL and OVERLAY OVERLAY OVERLAY BUILT TON AIRP Branch: RW 5-2 see: RUNWAY Rank: P L	Cost 0.00 0.00 0.00 0.00 23 RUNW ength: 725	Thickness (in) 0.00 0.00 0.00 2.50 0.00 2.50 0.00 2.50 0.00 2.50 0.00 2.50 0.00 0.00 (Ft) Wite Thickness 1	Major M&R V V Section: dth: 100.0 Major	Comments MILL AND OVERLAY: 1.5" P-401, 1984: 2.5" - 6" P-401 OVERLAY SOIL: SP 1974: 2.5" AC ON 6" LIME ROCK BASE 6106 Surface:AAC 0 (Ft) True Area: 72700.00002 (SqF

0.00

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2.00

IMPORT BUILT

ED

1/1/1996

1996: 2" AC ON 6" LIMEROCK

Work History Report

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Network:	BOCA RA	TON AIRP Branch: RW 5-2	23 RUNW	VAY 5-23	Section:	6107 Surface:AAC
L.C.D. 1/1/2	010 Us	e: RUNWAY Rank: P L	ength: 350	.00 (Ft) Wi	dth: 100.0	0 (Ft) True Area: 35000.00001 (SqI
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
11/1/2018	ST-SC	Surface Treatment - Seal Coat	0.00	0.00		
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1996	IMPORT ED	BUILT	0.00	2.00		1996: 2" AC ON 6" LIMEROCK
Network	BOCA RA	TON AIRP Branch: RW 5-2	23 RUNW	VAY 5-23	Section:	6110 Surface:AAC
L.C.D. 1/1/2			ength: 10,400			0 (Ft) True Area: 260000.0000 (Sql
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
11/1/2018	ST-SC	Surface Treatment - Seal Coat	0.00	0.00		
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1984	IMPORT ED	OVERLAY	0.00	2.50		1984: 2.5" P-401 OVERLAY
1/1/1984	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SP
1/1/1974	IMPORT ED	BUILT	0.00	2.50		1974: 2.5" AC ON 6" LIME ROCK BASE
L.C.D. 1/1/2	010 Us		ength: 1,450			0 (Ft) True Area: 36350.00001 (Sql
						6111 Surface:AAC 0 (Ft) True Area: 36350.00001 (Sql Comments
L.C.D. 1/1/2 Work Date	010 Us Work	se: RUNWAY Rank: P L	ength: 1,450	.00 (Ft) Wi	dth: 25.0 Major M&R	0 (Ft) True Area: 36350.00001 (Sql
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010	010 Us Work Code ST-SC ML-OV	e: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY	ength: 1,450 Cost 0.00 0.00	.00 (Ft) With Thickness (in)	dth: 25.0 Major M&R	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401,
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010	010 Us Work Code ST-SC	e: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY	ength: 1,450 Cost 0.00	.00 (Ft) Win Thickness (in) 0.00	dth: 25.0 Major M&R	0 (Ft) True Area: 36350.00001 (Sq Comments
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996	010 Us Work Code ST-SC ML-OV IMPORT ED	e: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY	ength: 1,450 Cost 0.00 0.00 0.00	.00 (Ft) Wi Thickness (in) 0.00 0.00	dth: 25.0 Major M&R	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network:	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA	se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00	dth: 25.0 Major M&R V Section:	0 (Ft) True Area: 36350.00001 (Sql Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code	se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 VAY 5-23 .00 (Ft) Wi Thickness (in)	dth: 25.0 Major M&R Section: dth: 25.0 Major M&R	0 (Ft) True Area: 36350.00001 (Sql Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface: AAC
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date 11/1/2018	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ST-SC	se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost 0.00	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 2.00 VAY 5-23 .00 (Ft) Wi Thickness (in) 0.00	dth: 25.0 Major M&R ☑ ☑ ☑ ✓ ✓ Section: dth: 25.0 Major M&R □ □	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface:AAC 0 (Ft) True Area: 17500.00000 (Sq Comments
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ST-SC ML-OV	e: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost 0.00 0.00	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 VAY 5-23 .00 (Ft) Wie Thickness (in) 0.00 0.00 0.00	dth: 25.0 Major M&R ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface:AAC 0 (Ft) True Area: 17500.00000 (Sq Comments MILL AND OVERLAY: 1.5" P-401,
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ST-SC	e: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost 0.00	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 2.00 VAY 5-23 .00 (Ft) Wi Thickness (in) 0.00	dth: 25.0 Major M&R ☑ ☑ ☑ ✓ ✓ Section: dth: 25.0 Major M&R □ □	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface: AAC 0 (Ft) True Area: 17500.00000 (Sq
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ST-SC ML-OV IMPORT ED	e: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost 0.00 0.00 0.00	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 VAY 5-23 .00 (Ft) Wie Thickness (in) 0.00 0.00 0.00	dth: 25.0 Major M&R ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface:AAC 0 (Ft) True Area: 17500.00000 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA	se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: TW A	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost 0.00 0.00 0.00 0.00 0.00 0.00	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 VAY 5-23 .00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 0.00 2.00 WAY A	dth: 25.0 Major M&R ♥ ♥ Section: dth: 25.0 Major M&R ♥ ♥ ♥ Section: ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥	O (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface: AAC 0 (Ft) True Area: 17500.00000 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK MILL AND OVERLAY: 1.5" P-401, 130 Surface: AAC
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network:	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA	se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: TW A	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost 0.00 0.00 0.00 0.00 0.00	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 VAY 5-23 .00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 0.00 2.00 WAY A	dth: 25.0 Major M&R ♥ ♥ Section: dth: 25.0 Major M&R ♥ ♥ ♥ Section: ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface:AAC 0 (Ft) True Area: 17500.00000 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Network: L.C.D. 1/1/20 Network: L.C.D. 1/1/20	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us	se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: TW A se: TAXIWAY Rank: P L	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost 0.00 0.00 0.00 0.00 0.00 0.00 145	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 VAY 5-23 .00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 WAY A .00 (Ft) Wi	dth: 25.0 Major M&R □ □ Section: dth: 25.0 Major M&R □ □ Section: dth: 45.0 Major	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface:AAC 0 (Ft) True Area: 17500.00000 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 130 Surface:AAC 0 (Ft) True Area: 8671.000002 (Sq
L.C.D. 1/1/20 Work Date 11/1/2018 1/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date 11/1/2010 1/1/1996 Network: L.C.D. 1/1/20 Work Date	010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ST-SC ML-OV IMPORT ED BOCA RA 010 Us Work Code ML-OV	se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: RW 5-2 se: RUNWAY Rank: P L Work Description Surface Treatment - Seal Coat MILL and OVERLAY BUILT TON AIRP Branch: TW A se: TAXIWAY Rank: P L Work Description	ength: 1,450 Cost 0.00 0.00 0.00 23 RUNW ength: 700 Cost 0.00 0.00 0.00 0.00 0.00 TAXIV ength: 145 Cost	.00 (Ft) Wi Thickness (in) 0.00 0.00 2.00 VAY 5-23 .00 (Ft) Wi Thickness (in) 0.00 2.00 2.00 WAY A .00 (Ft) Wi Thickness (in)	dth: 25.0 Major M&R ♥ ♥ Section: dth: 25.0 Major M&R ♥ ♥ Section: dth: 45.0 Major M&R	0 (Ft) True Area: 36350.00001 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 6112 Surface: AAC 0 (Ft) True Area: 17500.00000 (Sq Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 130 Surface: AAC 0 (Ft) True Area: 8671.000002 (Sq Comments

Work History Report

Network:	BOCA RA	TON AIRP Branch: TW B	TAXIV	WAY B	Section:	
L.C.D. 1/1/2	1	se: TAXIWAY Rank: P L	ength: 145	. ,	dth: 40.0	0 (Ft) True Area: 9396.000002 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010		MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1984	IMPORT ED	OVERLAY	0.00	2.50		1984: 2.5" AC OVERLAY
1/1/1984	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SP
1/1/1974	IMPORT ED	BUILT	0.00	2.00		1974: 2" AC ON 6" LIME ROCK BASE ON 4" WORK PLATFORM (1
Network:	BOCA RA	TON AIRP Branch: TW C	TAXIV	WAY C	Section:	120 Surface:AAC
L.C.D. 1/1/2	010 Us	se: TAXIWAY Rank: P L	ength: 145	.00 (Ft) Wie	dth: 40.0	0 (Ft) True Area: 7946.000002 (SqI
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1984	IMPORT ED	OVERLAY	0.00	2.50		1984: 2.5" AC OVERLAY
1/1/1984	IMPORT ED	OVERLAY	0.00	0.00		SOIL: SP
1/1/1974	IMPORT ED	BUILT	0.00	2.00		1974: 2" AC ON 6" LIME ROCK BASE ON 4" WORK PLATFORM (1
Network:	BOCA RA	TON AIRP Branch: TW C	TAXIV	WAY C	Section:	220 Surface:AAC
L.C.D. 1/1/2	010 Us	e: TAXIWAY Rank: P L	ength: 50		dth: 35.0	0 (Ft) True Area: 3501.000001 (SqI
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010		MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1984	IMPORT ED	BUILT	0.00	0.00		ESTIMATE 1984 AC PAVEMENT
Network: L.C.D. 1/1/2		TON AIRP Branch: TW E se: TAXIWAY Rank: P L		WAY E .00 (Ft) Wi e	Section:	116 Surface:AC 0 (Ft) True Area: 14729.00000 (Sql
Work Date	Work	Work Description	Cost	Thickness	Major	Comments
	Code NU-IN	New Construction - Initial	0.00	(in) 0.00	M&R	3" P-401, 18" P-211, 6" P-152
						, ,
		TON AIRP Branch: TW F		WAY F	Section:	
L.C.D. 1/1/2	Work	se: TAXIWAY Rank: P L	ength: 145	.00 (Ft) Wie Thickness	Major	0 (Ft) True Area: 7946.000002 (Sql
Work Date	Code	Work Description	Cost	(in)	M&R	Comments
1/1/2010 1/1/1984		MILL and OVERLAY OVERLAY	0.00 0.00	0.00 2.50		MILL AND OVERLAY: 1.5" P-401, 1984: 2.5" AC OVERLAY
1/1/1984	ED	OVERLAY	0.00	0.00		SOIL: SP
1/1/1974	ED IMPORT		0.00	2.00		1974: 2" AC ON 6" LIME ROCK
	ED					BASE ON 4" WORK PLATFORM (

Work History Report

Network	BOCA RA	TON AIRP Branch: TW G	ΤΔΧΙ	WAY G	Section:	110 Surface:AAC
L.C.D. 1/1/2						0 (Ft) True Area: 8671.000002 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1984	IMPORT ED	OVERLAY	0.00	2.50		1984: 2.5" AC OVERLAY
1/1/1984		OVERLAY	0.00	0.00		SOIL: SP
1/1/1974	IMPORT ED	BUILT	0.00	2.00		1974: 2" AC ON 6" LIME ROCK BASE ON 4" WORK PLATFORM (1
Network:	BOCA RA	TON AIRP Branch: TW H	TAXIV	WAY H	Section:	111 Surface:AAC
L.C.D. 1/1/2	010 Us	e: TAXIWAY Rank: P L	ength: 145	.00 (Ft) Wie	dth: 40.0	0 (Ft) True Area: 7946.000002 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010		MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1996	IMPORT ED	BUILT	0.00	2.00		1996: 2" AC ON 6" LIMEROCK
Network:	BOCA RA	TON AIRP Branch: TW P1	0 TAXIV	WAY P10	Section:	250 Surface:AAC
L.C.D. 1/1/2	010 Us	e: TAXIWAY Rank: P L	ength: 60	.00 (Ft) Wie	d th: 56.0	0 (Ft) True Area: 4078.000001 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/2002	NC-AC	New Construction - AC	0.00	0.00		
Network:	BOCA RA	TON AIRP Branch: TW P	TAXIV	WAY P	Section:	105 Surface:AAC
L.C.D. 1/1/2	010 Us	e: TAXIWAY Rank: P L	ength: 4,930	.00 (Ft) Wie	dth: 40.0	0 (Ft) True Area: 193060.0000 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1984	IMPORT ED	OVERLAY	0.00	2.50		1984: 2.5" AC OVERLAY
1/1/1984		OVERLAY	0.00	0.00		SOIL: SP
1/1/1974	IMPORT ED	BUILT	0.00	2.00		1974: 2" AC ON 6" LIME ROCK BASE ON 4" WORK PLATFORM (C
		TON AIRP Branch: TW P		WAY P	Section:	
L.C.D. 1/1/2		se: TAXIWAY Rank: P L	ength: 725	、 <i>,</i>		0 (Ft) True Area: 29080.00000 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010		MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1996	IMPORT ED	BUILT	0.00	2.00		1996: 2" AC 0N 6" LIMEROCK

Work History Report

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Network	BOCA RA	TON AIRP Branch: T	WP	TAXI	WAY P	Section:	107 Surface: AAC
L.C.D. 1/1/2		se: TAXIWAY Rank: P					0 (Ft) True Area: 14241.00000 (SqFt
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comments
1/1/2010	ML-OV	MILL and OVERLAY		0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1996	IMPORT ED	BUILT		0.00	2.00		1996: 2" AC ON 6" LIMEROCK
Network	BOCARA	TON AIRP Branch : T	WP	ΤΔΧΙ	WAY P	Section:	108 Surface:AAC
L.C.D. 1/1/2		se: TAXIWAY Rank: P					0 (Ft) True Area: 10940.00000 (SqFt
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comments
1/1/2010		MILL and OVERLAY		0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1996	IMPORT ED	BUILT		0.00	0.00		1996: AC OVERLAY
Network:	BOCA RA	TON AIRP Branch: T	WP	TAXI	WAY P	Section:	112 Surface:AAC
L.C.D. 1/1/2		se: TAXIWAY Rank: P					0 (Ft) True Area: 12673.00000 (SqFt
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comments
1/1/2010		MILL and OVERLAY		0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1996	IMPORT	BUILT		0.00	2.00		1996: 2" AC ON 6" LIMEROCK
1/1/1////	ED	DOILI		0.00	2.00		
	ED		WP	l			
	ED BOCA RA	TON AIRP Branch: T se: TAXIWAY Rank: P		TAXI	WAY P	Section:	113 Surface:AAC
Network:	ED BOCA RA	TON AIRP Branch: T		TAXI	WAY P	Section:	
Network: L.C.D. 1/1/2	ED BOCA RA 010 Us Work Code	TON AIRP Branch: T se: TAXIWAY Rank: P		TAXI TAXI ength: 50	VAY P .00 (Ft) Wi Thickness	Section: dth: 40.0 Major	113 Surface: AAC 0 (Ft) True Area: 4000.000001 (SqFt
Network: L.C.D. 1/1/2 Work Date	ED BOCA RA 010 Us Work Code	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY		TAXIV ength: 50 Cost	WAY P .00 (Ft) Wi Thickness (in)	Section: dth: 40.0 Major M&R	113 Surface: AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY	I.	TAXIV ength: 50 Cost 0.00 0.00	WAY P .00 (Ft) Wi Thickness (in) 0.00	Section: dth: 40.0 Major M&R	113 Surface: AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network:	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED BOCA RA	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT	U W P	TAXIV ength: 50 Cost 0.00 0.00 TAXIV	WAY P .00 (Ft) Wi Thickness (in) 0.00 0.00 WAY P	Section: dth: 40.0 Major M&R V V Section:	113 Surface: AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH 131 Surface: AAC
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED BOCA RA	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT TON AIRP Branch: T	U W P	TAXIV ength: 50 Cost 0.00 0.00 TAXIV	WAY P .00 (Ft) Wi Thickness (in) 0.00 0.00 WAY P	Section: dth: 40.0 Major M&R V V Section:	113 Surface: AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH 131 Surface: AAC
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network: L.C.D. 1/1/2	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED BOCA RA 010 Us Work Code	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT TON AIRP Branch: T se: TAXIWAY Rank: P	U W P	TAXIV ength: 50 Cost 0.00 0.00 TAXIV ength: 145	WAY P .00 (Ft) Wi Thickness (in) 0.00 0.00 WAY P .00 (Ft) Wi Thickness	Section: dth: 40.0 Major M&R V Section: dth: 12673. Major	113 Surface: AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH 131 Surface: AAC 0 (Ft) True Area: 12673.00000 (SqFt
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network: L.C.D. 1/1/2 Work Date	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED BOCA RA 010 Us Work Code	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY	U W P	TAXIV ength: 50 Cost 0.00 0.00 TAXIV ength: 145 Cost	WAY P .00 (Ft) Wi Thickness (in) 0.00 0.00 WAY P .00 (Ft) Wi Thickness (in)	Section: dth: 40.0 Major M&R Section: dth: 12673. Major M&R	113 Surface: AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH 131 Surface: AAC 0 (Ft) True Area: 12673.00000 (SqFt
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED BOCA RA 010 Us Work Code ML-OV IMPORT ED	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY	U P L	TAXIV ength: 50 Cost 0.00 0.00 TAXIV ength: 145 Cost 0.00 0.00	WAY P .00 (Ft) Wi Thickness (in) 0.00 0.00 0.00 WAY P .00 (Ft) Wi Thickness (in) 0.00	Section: dth: 40.0 Major M&R V Section: dth: 12673. Major M&R V V	113 Surface: AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH 131 Surface: AAC 0 (Ft) True Area: 12673.00000 (SqFt Comments 1996: 2" AC ON 6" LIMEROCK
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED BOCA RA ML-OV IMPORT ED	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT	U W P L W P2	TAXIV ength: 50 Cost 0.00 0.00 TAXIV ength: 145 Cost 0.00 0.00 TAXIV	WAY P .00 (Ft) Wi Thickness (in) 0.00 0.00 WAY P .00 (Ft) Wi Thickness (in) 0.00 2.00	Section: dth: 40.0 Major M&R V Section: dth: 12673. Major M&R V Section: Section:	113 Surface:AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH 131 Surface:AAC 0 (Ft) True Area: 12673.00000 (SqFt Comments 1996: 2" AC ON 6" LIMEROCK
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network:	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED BOCA RA ML-OV IMPORT ED	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT	U W P L W P2	TAXIV ength: 50 Cost 0.00 0.00 TAXIV ength: 145 Cost 0.00 0.00 TAXIV	WAY P .00 (Ft) Wi Thickness (in) 0.00 0.00 WAY P .00 (Ft) Wi Thickness (in) 0.00 2.00	Section: dth: 40.0 Major M&R Section: dth: 12673. Major M&R Section: Section:	113 Surface:AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH 131 Surface:AAC 0 (Ft) True Area: 12673.00000 (SqFt Comments 1996: 2" AC ON 6" LIMEROCK 210 Surface:AAC
Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network: L.C.D. 1/1/2 Work Date 1/1/2010 1/1/1996 Network: L.C.D. 1/1/2	ED BOCA RA 010 Us Work Code ML-OV IMPORT ED BOCA RA 010 Us BOCA RA 010 Us BOCA RA 010 Us	TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT TON AIRP Branch: T se: TAXIWAY Rank: P Work Description MILL and OVERLAY BUILT TON AIRP Branch: T se: TAXIWAY Rank: P	U W P L W P2	TAXIV ength: 50 Cost 0.00 0.00 TAXIV ength: 145 Cost 0.00 0.00 TAXIV ength: 59	WAY P .00 (Ft) Wi Thickness (in) 0.00 0.00 WAY P .00 (Ft) Wi Thickness (in) 0.00 2.00 WAY P2 .00 (Ft) Wi	Section: dth: 40.0 Major M&R V Section: dth: 12673. Major M&R V Section: dth: 30.0 Major	113 Surface:AAC 0 (Ft) True Area: 4000.000001 (SqFt Comments MILL AND OVERLAY: 1.5" P-401, EST 1996: PATCH 131 Surface:AAC 0 (Ft) True Area: 12673.00000 (SqFt Comments 1996: 2" AC ON 6" LIMEROCK 210 Surface:AAC 0 (Ft) True Area: 2572.000000 (SqFt

Work History Report

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Network:	BOCA RA	TON AIRP Branch: TW P3	TAXIV	WAY P3	Section:	215 Surface:AAC
L.C.D. 1/1/20	010 Us	e: TAXIWAY Rank: P L	ength: 61	.00 (Ft) Wie	dth: 20.0	0 (Ft) True Area: 1488.000000 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		
1/1/1996	NC-AC	New Construction - AC				
Network:	BOCA RA	TON AIRP Branch: TW P4	TAXIV	WAY P4	Section:	225 Surface:AAC
L.C.D. 1/1/20	010 Us	e: TAXIWAY Rank: P L	ength: 55	.00 (Ft) Wie	dth: 40.0	0 (Ft) True Area: 3670.000001 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2010	ML-OV	MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/1984	IMPORT	BUILT	0.00	0.00		ESTIMATE 1984 AC OVERLAY ON
	ED					EXISTING AC
Network:	BOCA RA	TON AIRP Branch: TW P5	TAXIV	WAY P5	Section:	230 Surface:AAC
L.C.D. 1/1/20	010 Us	e: TAXIWAY Rank: P L	ength: 60	.00 (Ft) Wie	dth: 55.0	0 (Ft) True Area: 4056.000001 (SqF
	Work	Work Description	Cost	Thickness (in)	Major M&R	Comments
Work Date	Code	•		(III)	Maxix	
		MILL and OVERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
1/1/2010		MILL and OVERLAY	0.00 0.00	()		MILL AND OVERLAY: 1.5" P-401, ESTIMATE 1984 AC OVERLAY ON EXISTING AC
1/1/2010	ML-OV IMPORT	MILL and OVERLAY		0.00		ESTIMATE 1984 AC OVERLAY ON
1/1/2010 1/1/1984	ML-OV IMPORT ED	MILL and OVERLAY	0.00	0.00		ESTIMATE 1984 AC OVERLAY ON EXISTING AC
1/1/2010 1/1/1984	ML-OV IMPORT ED BOCA RA	MILL and OVERLAY BUILT TON AIRP Branch: TW P6	0.00 TAXIV	0.00 0.00 WAY P6	Section:	ESTIMATE 1984 AC OVERLAY ON EXISTING AC 222 Surface:AC
1/1/2010 1/1/1984 Network:	ML-OV IMPORT ED BOCA RA	MILL and OVERLAY BUILT TON AIRP Branch: TW P6	0.00 TAXIV	0.00 0.00 WAY P6	Section:	ESTIMATE 1984 AC OVERLAY ON EXISTING AC
1/1/2010 1/1/1984 Network: 1 L.C.D. 2/24/2	ML-OV IMPORT ED BOCA RA 2018 Us Work Code	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 se: TAXIWAY Rank: P L	0.00 TAXIV ength: 55	0.00 0.00 WAY P6 .00 (Ft) Wit	Section: dth: 50.0 Major	ESTIMATE 1984 AC OVERLAY ON EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (SqF
1/1/2010 1/1/1984 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network:	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 ee: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7	0.00 TAXIV ength: 55 Cost TAXIV	0.00 0.00 WAY P6 .00 (Ft) Wit Thickness (in)	Section: Major M&R Section:	ESTIMATE 1984 AC OVERLAY ON EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (Sql Comments 221 Surface:AC
1/1/2010 1/1/1984 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network:	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 ee: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7	0.00 TAXIV ength: 55 Cost TAXIV	0.00 0.00 WAY P6 .00 (Ft) Wit Thickness (in)	Section: Major M&R Section:	ESTIMATE 1984 AC OVERLAY ON EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (SqI Comments
1/1/2010 1/1/2010 1/1/1984 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: L.C.D. 2/24/2	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA 2018 Us Work	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 se: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7 se: TAXIWAY Rank: P L	0.00 TAXIV ength: 55 Cost TAXIV ength: 55	0.00 0.00 WAY P6 .00 (Ft) Wit Thickness (in) WAY P7 .00 (Ft) Wit Thickness	Section: dth: 50.0 Major M&R V Section: dth: 50.0 Major	ESTIMATE 1984 AC OVERLAY ON EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (SqF Comments 221 Surface:AC 0 (Ft) True Area: 4924.000001 (SqF
1/1/2010 1/1/2010 1/1/1984 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: 1.C.D. 2/24/2 Work Date 2/24/2018	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA 2018 Us Work Code CR-AC	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 ee: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7 ee: TAXIWAY Rank: P L Work Description	0.00 TAXIV ength: 55 Cost TAXIV ength: 55 Cost	0.00 0.00 0.00 0.00 (Ft) Wit Thickness (in) WAY P7 .00 (Ft) Wit Thickness (in)	Section: dth: 50.0 Major M&R Section: dth: 50.0 Major M&R	ESTIMATE 1984 AC OVERLAY ON EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (SqI Comments 221 Surface:AC 0 (Ft) True Area: 4924.000001 (SqI
1/1/2010 1/1/2010 1/1/1984 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: 1/1/2010	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA 2018 Us Work Code CR-AC ML-OV IMPORT	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 ie: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7 ie: TAXIWAY Rank: P L Work Description Complete Reconstruction - AC MILL and OVERLAY	0.00 TAXIV ength: 55 Cost TAXIV ength: 55 Cost 0.00	0.00 0.00 0.00 0.00 (Ft) With Thickness (in) 0.00 (Ft) With Thickness (in) 0.00	Section: dth: 50.0 Major M&R V Section: dth: 50.0 Major M&R V Major M&R V	ESTIMATE 1984 AC OVERLAY OF EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (Sql Comments 221 Surface:AC 0 (Ft) True Area: 4924.000001 (Sql Comments
1/1/2010 1/1/2010 1/1/1984 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: 1/1/2010	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA 2018 Us Work Code CR-AC ML-OV	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 ie: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7 ie: TAXIWAY Rank: P L Work Description Complete Reconstruction - AC MILL and OVERLAY	0.00 TAXIV ength: 55 Cost TAXIV ength: 55 Cost 0.00 0.00	0.00 0.00 0.00 WAY P6 .00 (Ft) Wid Thickness (in) WAY P7 .00 (Ft) Wid Thickness (in) 0.00 0.00 0.00	Section: dth: 50.0 Major M&R Section: dth: 50.0 Major M&R V V	ESTIMATE 1984 AC OVERLAY OF EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (Sq Comments 221 Surface:AC 0 (Ft) True Area: 4924.000001 (Sq Comments MILL AND OVERLAY: 1.5" P-401,
1/1/2010 1/1/2010 1/1/1984 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: L.C.D. 2/24/2 Work Date 2/24/2018 Network: 1/1/2010	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA 2018 Us Work Code CR-AC ML-OV IMPORT ED	MILL and OVERLAY BUILT TON AIRP Branch : TW P6 ie: TAXIWAY Rank : P L Work Description New Construction - AC TON AIRP Branch : TW P7 ie: TAXIWAY Rank : P L Work Description Complete Reconstruction - AC MILL and OVERLAY BUILT	0.00 TAXIV ength: 55 Cost TAXIV ength: 55 Cost 0.00 0.00 0.00	0.00 0.00 0.00 WAY P6 .00 (Ft) Wid Thickness (in) WAY P7 .00 (Ft) Wid Thickness (in) 0.00 0.00 0.00	Section: dth: 50.0 Major M&R Section: dth: 50.0 Major M&R V V	ESTIMATE 1984 AC OVERLAY OF EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (Sql Comments 221 Surface:AC 0 (Ft) True Area: 4924.000001 (Sql Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK
1/1/2010 1/1/2010 1/1/1984 Network: 1 L.C.D. 2/24/2 Work Date 2/24/2018 L.C.D. 2/24/2 Work Date 2/24/2018 1/1/2010 1/1/2010 1/1/1996 Network: 1	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA 2018 Us Work Code CR-AC ML-OV IMPORT ED	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 ie: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7 ie: TAXIWAY Rank: P L Work Description Complete Reconstruction - AC MILL and OVERLAY BUILT TON AIRP Branch: TW P8	0.00 TAXIV ength: 55 Cost TAXIV ength: 55 Cost 0.00 0.00 0.00 TAXIV	0.00 0.00 0.00 WAY P6 .00 (Ft) With Thickness (in) 0.00 (Ft) With Thickness (in) 0.00 0.00 2.00 WAY P8	Section: dth: 50.0 Major M&R Section: dth: 50.0 Major M&R V Section: Major M&R V Section:	ESTIMATE 1984 AC OVERLAY OF EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (Sql Comments 221 Surface:AC 0 (Ft) True Area: 4924.000001 (Sql Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 260 Surface:AAC
1/1/2010 1/1/2010 1/1/1984 Network: 1 L.C.D. 2/24/2 Work Date 2/24/2018 Network: 1 L.C.D. 2/24/2 Work Date 2/24/2018 1/1/2010 1/1/2010 1/1/1996	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA 2018 Us Work CR-AC ML-OV IMPORT ED BOCA RA 2010 Us	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 ie: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7 ie: TAXIWAY Rank: P L Work Description Complete Reconstruction - AC MILL and OVERLAY BUILT TON AIRP Branch: TW P8	0.00 TAXIV ength: 55 Cost TAXIV ength: 55 Cost 0.00 0.00 0.00 TAXIV	0.00 0.00 0.00 0.00 WAY P6 .00 (Ft) Wid Thickness (in) .00 .00 WAY P7 .00 (Ft) Wid Thickness (in) 0.00 .000 0.000 2.000 2.000 WAY P8 .00 (Ft) Wid Thickness .00 (Ft) Wid	Section: dth: 50.0 Major M&R V Section: dth: 50.0 Major M&R V Section: dth: 40.0 Major	ESTIMATE 1984 AC OVERLAY ON EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (Sql Comments 221 Surface:AC 0 (Ft) True Area: 4924.000001 (Sql Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 260 Surface:AAC
1/1/2010 1/1/2010 1/1/1984 Network: 1 L.C.D. 2/24/2 Work Date 2/24/2018 Network: 1 L.C.D. 2/24/2 Work Date 2/24/2018 1/1/2010 1/1/1996 Network: 1 L.C.D. 1/1/2010	ML-OV IMPORT ED BOCA RA 2018 Us Work Code NC-AC BOCA RA 2018 Us Work Code CR-AC ML-OV IMPORT ED BOCA RA	MILL and OVERLAY BUILT TON AIRP Branch: TW P6 ie: TAXIWAY Rank: P L Work Description New Construction - AC TON AIRP Branch: TW P7 ie: TAXIWAY Rank: P L Work Description Complete Reconstruction - AC MILL and OVERLAY BUILT TON AIRP Branch: TW P8 ie: TAXIWAY Rank: P L	0.00 TAXIV ength: 55 Cost TAXIV ength: 55 Cost 0.00 0.00 0.00 0.00 TAXIV ength: 60	0.00 0.00 0.00 0.00 WAY P6 .00 (Ft) Wid Thickness (in) .00 .00 WAY P7 .00 (Ft) Wid Thickness (in) 0.00 .000 0.000 2.000 2.000 WAY P8 .00 (Ft) Wid	▼ Section: dth: 50.0 Major M&R ▼ Section: dth: 50.0 Major M&R ▼ Section: ✓ Section: ✓ ✓ Section: ✓ Section: ✓ Section: ✓	ESTIMATE 1984 AC OVERLAY OF EXISTING AC 222 Surface:AC 0 (Ft) True Area: 4897.000001 (Sql Comments 221 Surface:AC 0 (Ft) True Area: 4924.000001 (Sql Comments MILL AND OVERLAY: 1.5" P-401, 1996: 2" AC ON 6" LIMEROCK 260 Surface:AAC 0 (Ft) True Area: 3165.000000 (Sql

Work History Report

	Network: L.C.D. 1/1/20		TON AIRP e: TAXIWAY	Branch: TW P9 Rank: P L		WAY P9 .00 (Ft) Wi	Section: idth: 56.0	240 Surface: AAC 0 (Ft) True Area: 4073.000001 (SqFt
Ī	Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comments
Ĩ	1/1/2010	ML-OV	MILL and OVE	ERLAY	0.00	0.00		MILL AND OVERLAY: 1.5" P-401,
	1/1/2002	NC-AC	New Constructi	ion - AC	0.00	0.00		

Work History Report

Pavement Database: FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	25	1,337,004.00	1.64	0.83
Complete Reconstruction - AC	2	87,090.00	0.00	0.00
MILL and OVERLAY	30	1,352,380.00	0.00	0.00
New Construction - AC	6	99,274.00	0.00	0.00
New Construction - Initial	3	29,681.00	0.00	0.00
OVERLAY	15	2,022,709.00	1.33	1.25
Surface Treatment - Seal Coat	7	1,023,716.00	0.00	0.00

8/11/2019		Branch Condition Report 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 CUSTO	1	360.00	235.00	82,166.00	APRON	100.00	0.00	100.00			
AP RU 23	1	240.00	110.00	25,516.00	APRON	88.00	0.00	88.00			
AP RU 5	2	390.00	97.50	38,331.00	APRON	79.50	0.50	79.69			
RW 5-23	6	18,825.00	62.50	941,550.00	RUNWAY	93.67	3.40	92.02			
TW A	1	145.00	45.00	8,671.00	TAXIWAY	81.00	0.00	81.00			
TW B	1	145.00	40.00	9,396.00	TAXIWAY	85.00	0.00	85.00			
TW C	2	195.00	37.50	11,447.00	TAXIWAY	82.50	0.50	82.31			
TW E	1	145.00	60.00	14,729.00	TAXIWAY	71.00	0.00	71.00			
TW F	1	145.00	40.00	7,946.00	TAXIWAY	86.00	0.00	86.00			
TW G	1	145.00	45.00	8,671.00	TAXIWAY	85.00	0.00	85.00			
TW H	1	145.00	40.00	7,946.00	TAXIWAY	82.00	0.00	82.00			
TW P	7	6,620.00	1,850.43	276,667.00	TAXIWAY	86.43	3.42	86.96			
TW P10	1	60.00	56.00	4,078.00	TAXIWAY	81.00	0.00	81.00			
TW P2	1	59.00	30.00	2,572.00	TAXIWAY	83.00	0.00	83.00			
TW P3	1	61.00	20.00	1,488.00	TAXIWAY	77.00	0.00	77.00			
TW P4	1	55.00	40.00	3,670.00	TAXIWAY	85.00	0.00	85.00			
TW P5	1	60.00	55.00	4,056.00	TAXIWAY	88.00	0.00	88.00			
TW P6	1	55.00	50.00	4,897.00	TAXIWAY	100.00	0.00	100.00			
TW P7	1	55.00	50.00	4,924.00	TAXIWAY	100.00	0.00	100.00			
TW P8	1	60.00	40.00	3,165.00	TAXIWAY	84.00	0.00	84.00			
TW P9	1	60.00	56.00	4,073.00	TAXIWAY	85.00	0.00	85.00			

8/11/2019	Bra Pavement Databa	Page 2 of 2				
Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI	
APRON	4	146,013.00	86.75	8.41	92.57	
RUNWAY	6	941,550.00	93.67	3.40	92.02	
TAXIWAY	24	378,396.00	85.13	6.04	85.99	
ALL	34	1,465,959.00	86.82	6.81	90.52	

8/11/2019		ort				Page 1	l of 2			
Pavement Dat	tabase: FDOT									
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspec tion	
AP CUSTOMS	4105	2/24/2018	AC	APRON	Р	0	82,166.00	2/24/2018	0	100
AP RU 23	5110	1/1/2010	AAC	APRON	Р	0	25,516.00	5/16/2019	9	88
AP RU 5	5105	1/1/2010	AAC	APRON	Р	0	26,544.00	5/16/2019	9	80
AP RU 5	5115	1/1/2010	AC	APRON	Р	0	11,787.00	5/16/2019	9	79
RW 5-23	6105	1/1/2010	AAC	RUNWAY	Р	0	520,000.00	5/16/2019	9	92
RW 5-23	6106	1/1/2010	AAC	RUNWAY	Р	0	72,700.00	5/16/2019	9	93
RW 5-23	6107	1/1/2010	AAC	RUNWAY	Р	0	35,000.00	5/16/2019	9	96
RW 5-23	6110	1/1/2010	AAC	RUNWAY	Р	0	260,000.00	5/16/2019	9	91
RW 5-23	6111	1/1/2010	AAC	RUNWAY	Р	0	36,350.00	5/16/2019	9	90
RW 5-23	6112	1/1/2010	AAC	RUNWAY	Р	0	17,500.00	5/16/2019	9	100
TW A	130	1/1/2010	AAC	TAXIWAY	Р	0	8,671.00	5/16/2019	9	81
TW B	125	1/1/2010	AAC	TAXIWAY	Р	0	9,396.00	5/16/2019	9	85
TW C	120	1/1/2010	AAC	TAXIWAY	Р	0	7,946.00	5/16/2019	9	82
TW C	220	1/1/2010	AAC	TAXIWAY	Р	0	3,501.00	5/16/2019	9	83
TW E	116	1/1/2010	AC	TAXIWAY	Р	0	14,729.00	5/16/2019	9	71
TW F	115	1/1/2010	AAC	TAXIWAY	Р	0	7,946.00	5/16/2019	9	86
TW G	110	1/1/2010	AAC	TAXIWAY	Р	0	8,671.00	5/16/2019	9	85
TW H	111	1/1/2010	AAC	TAXIWAY	Р	0	7,946.00	5/16/2019	9	82
TW P	105	1/1/2010	AAC	TAXIWAY	Р	0	193,060.00	5/16/2019	9	87
TW P	106	1/1/2010	AAC	TAXIWAY	Р	0	29,080.00	5/16/2019	9	90
TW P	107	1/1/2010	AAC	TAXIWAY	Р	0	14,241.00	5/16/2019	9	89
TW P	108	1/1/2010	AAC	TAXIWAY	Р	0	10,940.00	5/16/2019	9	80
TW P	112	1/1/2010	AAC	TAXIWAY	Р	0	12,673.00	5/16/2019	9	85
TW P	113	1/1/2010	AAC	TAXIWAY	Р	0	4,000.00	5/16/2019	9	90
TW P	131	1/1/2010	AAC	TAXIWAY	Р	0	12,673.00	5/16/2019	9	84
TW P10	250	1/1/2010	AAC	TAXIWAY	Р	0	4,078.00	5/16/2019	9	81
TW P2	210	1/1/2010	AAC	TAXIWAY	Р	0	2,572.00	5/16/2019	9	83
TW P3	215	1/1/2010	AAC	TAXIWAY	Р	0	1,488.00	5/16/2019	9	77
TW P4	225	1/1/2010	AAC	TAXIWAY	Р	0	3,670.00	5/16/2019	9	85
TW P5	230	1/1/2010	AAC	TAXIWAY	Р	0	4,056.00	5/16/2019	9	88
TW P6	222	2/24/2018	AC	TAXIWAY	Р	0	4,897.00	2/24/2018	0	100
TW P7	221	2/24/2018	AC	TAXIWAY	Р	0	4,924.00	2/24/2018	0	100
TW P8	260	1/1/2010	AAC	TAXIWAY	Р	0	3,165.00	5/16/2019	9	84
TW P9	240	1/1/2010	AAC	TAXIWAY	Р	0	4,073.00	5/16/2019	9	85

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI				
00-02		91,987.00	3	100.00	0.00	100.00				
06-10	9	1,373,972.00	31	85.55	5.70	89.89				
ALL	8	1,465,959.00	34	86.82	6.81	90.52				

Pavement Database: FDOT

Statewide Airfield Pavement Management Program



Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation

Table B-1 Localized Maintenance and Re	pair Needs based on Current Condition
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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	
вст	AP RU 23	5110	52	RAVELING	Low	385.89	SqFt	1.5%	FDOT - SURFACE SEAL	386.4	SqFt	\$ 0.55	\$ 220.0	00
BCT	AP RU 5	5105	52	RAVELING	Low	392.67	SqFt	1.5%	FDOT - SURFACE SEAL	392.9	SqFt	\$ 0.55	\$ 220.0	00
ВСТ	AP RU 5	5115	52	RAVELING	Low	223.14	SqFt	1.9%	FDOT - SURFACE SEAL		SqFt	\$ 0.55	\$ 130.0	00
ВСТ	RW 5-23	6105	52	RAVELING	Low	7740.54	SqFt	1.5%	FDOT - SURFACE SEAL	7740.3	SqFt	\$ 0.55	\$ 4,260.0	00
ВСТ	RW 5-23	6105	52	RAVELING	Medium	103.98	SqFt	0.0%	FDOT - PATCHING - AC PARTIAL DEPTH	104.4	SqFt	\$ 4.00	\$ 420.0	00
BCT	RW 5-23	6106	52	RAVELING	Low	799.65	SqFt	1.1%	FDOT - SURFACE SEAL	799.8	SqFt	\$ 0.55	\$ 440.0	00
ВСТ	RW 5-23	6107	52	RAVELING	Low	902.98	SqFt	2.6%	FDOT - SURFACE SEAL	903.1	SqFt	\$ 0.55	\$ 500.0	00
BCT	RW 5-23	6110	52	RAVELING	Low	16417.87	SqFt	6.3%	FDOT - SURFACE SEAL	16418.2	SqFt	\$ 0.55	\$ 9,030.0	00
ВСТ	RW 5-23	6111	52	RAVELING	Low	705.79	SqFt	1.9%	FDOT - SURFACE SEAL	706.1	SqFt	\$ 0.55	\$ 390.0	00
ВСТ	RW 5-23	6111	52	RAVELING	Medium	7.75	SqFt	0.0%	FDOT - PATCHING - AC PARTIAL DEPTH	7.5	SqFt	\$ 4.00	\$ 40.0	00
ВСТ	TW A	130	52	RAVELING	Low	259.95	SqFt	3.0%	FDOT - SURFACE SEAL	260.5	SqFt	\$ 0.55	\$ 150.0	00
BCT	TW B	125	52	RAVELING	Low	282.45	SqFt	3.0%	FDOT - SURFACE SEAL	282	SqFt	\$ 0.55	\$ 160.0	00
ВСТ	TW C	120	52	RAVELING	Low	158.01	SqFt	2.0%	FDOT - SURFACE SEAL	158.2	SqFt	\$ 0.55	\$ 90.0	00
BCT	TW C	220	52	RAVELING	Low	69.97	SqFt	2.0%	FDOT - SURFACE SEAL	70	SqFt	\$ 0.55	\$ 40.0	00
ВСТ	TW E	116	45	DEPRESSION	Low	723.87	SqFt	4.9%	FDOT - PATCHING - AC FULL DEPTH	836.4	SqFt	\$ 9.00	\$ 7,530.0	00
ВСТ	TW F	115	52	RAVELING	Low	158.01	SqFt	2.0%	FDOT - SURFACE SEAL	158.2	SqFt	\$ 0.55	\$ 90.0	00
ВСТ	TW G	110	52	RAVELING	Low	86	SqFt	1.0%	FDOT - SURFACE SEAL	86.1	SqFt	\$ 0.55	\$ 50.0	00
BCT	TW H	111	52	RAVELING	Low	158.01	SqFt	2.0%	FDOT - SURFACE SEAL	158.2	SqFt	\$ 0.55	\$ 90.0	00
вст	TW P	105	52	RAVELING	Low	1608.88	SqFt	0.8%	FDOT - SURFACE SEAL	1609.2	SqFt	\$ 0.55	\$ 890.0	00
BCT	TW P	108	52	RAVELING	Low	110.11	SqFt	1.0%	FDOT - SURFACE SEAL	109.8	SqFt	\$ 0.55	\$ 70.0	00
вст	TW P	112	52	RAVELING	Low	379.97	SqFt	3.0%	FDOT - SURFACE SEAL	380	SqFt	\$ 0.55	\$ 210.0	00
ВСТ	TW P	113	52	RAVELING	Low	79.98	SqFt	2.0%	FDOT - SURFACE SEAL	79.7	SqFt	\$ 0.55	\$ 50.0	00
вст	TW P	131	52	RAVELING	Low	124	SqFt	1.0%	FDOT - SURFACE SEAL	123.8	SqFt	\$ 0.55	\$ 70.0	00
ВСТ	TW P10	250	52	RAVELING	Low	82.02	SqFt	2.0%	FDOT - SURFACE SEAL	81.8	SqFt	\$ 0.55	\$ 50.0	00
вст	TW P2	210	52	RAVELING	Low	76.96	SqFt	3.0%	FDOT - SURFACE SEAL	77.5	SqFt	\$ 0.55	\$ 50.0	J0
ВСТ	TW P2	210	52	RAVELING	Medium	21.96	SqFt	0.9%	FDOT - PATCHING - AC PARTIAL DEPTH	21.5	SqFt	\$ 4.00	\$ 90.0	00
вст	TW P3	215	52	RAVELING	Low	59.95	SqFt	4.0%	FDOT - SURFACE SEAL	60.3	SqFt	\$ 0.55	\$ 40.0	00
вст	TW P4	225	52	RAVELING	Low	72.98	SqFt	2.0%	FDOT - SURFACE SEAL	73.2	SqFt	\$ 0.55	\$ 50.0	00
ВСТ	TW P5	230	52	RAVELING	Low	81.05	SqFt	2.0%	FDOT - SURFACE SEAL	80.7	SqFt	\$ 0.55	\$ 50.0	00
ВСТ	TW P8	260	52	RAVELING	Low	158.01	SqFt	5.0%	FDOT - SURFACE SEAL	158.2	SqFt	\$ 0.55	\$ 90.0	00
ВСТ	TW P8	260	52	RAVELING	Medium	4.95	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	5.4	SqFt	\$ 4.00	\$ 20.0	00
вст	TW P9	240	52	RAVELING	Low	81.05	SqFt	2.0%	FDOT - SURFACE SEAL	80.7	SqFt	\$ 0.55	\$ 50.0	00

Boca Raton Airport (BCT)



12X



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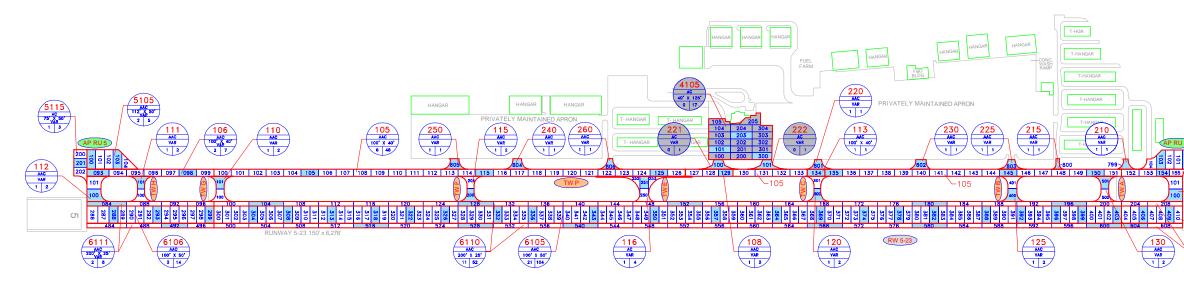
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2025	ВСТ	TW E	116	AC	14,729	64	AC Restoration	\$ 140,000.00
2027	вст	AP RU 5	5105	AAC	26,544	63	AC Restoration	\$ 253,000.00
2028	ВСТ	AP RU 5	5115	AC	11,787	64	AC Restoration	\$ 112,000.00

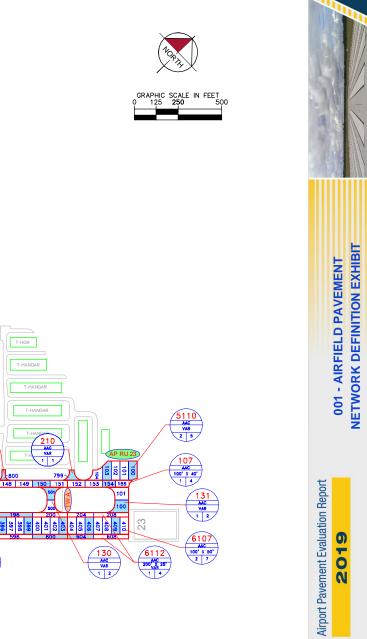
Statewide Airfield Pavement Management Program



Appendix C

Technical Exhibits

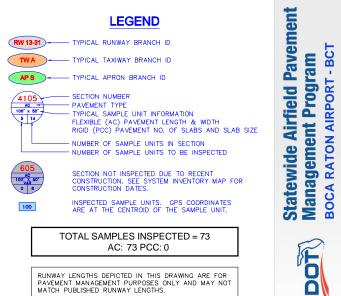




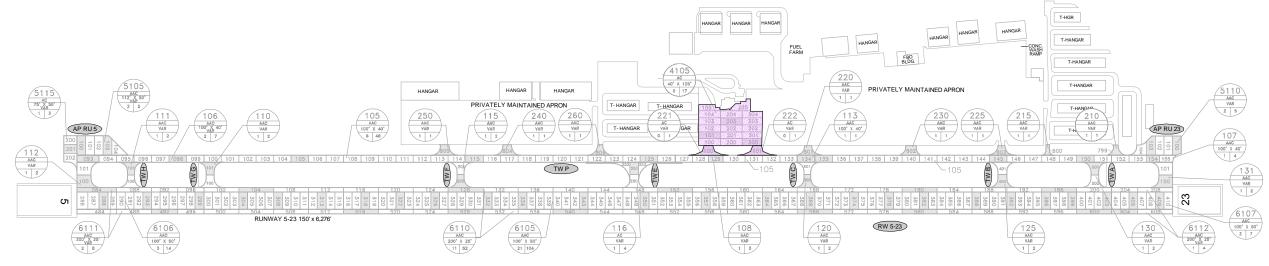
LEGEND

6112 200^{4AC} 200⁴V 25⁻ 1 4

130 AAC VAR 1 2

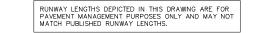


FDOT



CONSTRUCTION SINCE LAST INSPECTION & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION				
2018	AP CUSTOMS, TW P7	COMPLETE RECONSTRUCTION - AC				
2018	TW P6	NEW CONSTRUCTION - AC				



PROJECTS	YEAR	2013
PROJECTS	YEAR	2014
PROJECTS	YEAR	2015
PROJECTS	YEAR	2016
PROJECTS	YEAR	2017
PROJECTS	YEAR	2018
PROJECTS	YEAR	2019
PROJECTS	YEAR	2020
PROJECTS	YEAR	2021
PROJECTS	YEAR	2022

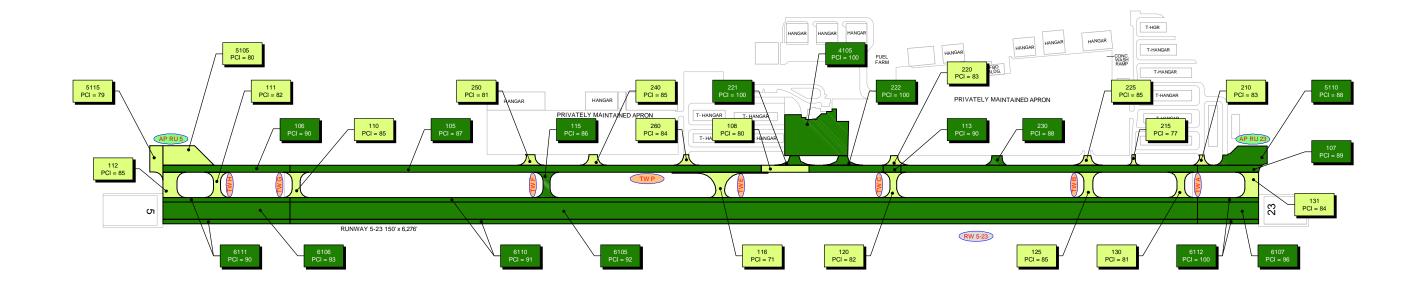
LEGEND

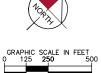


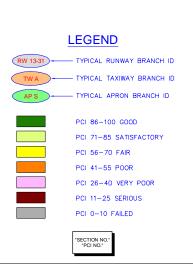






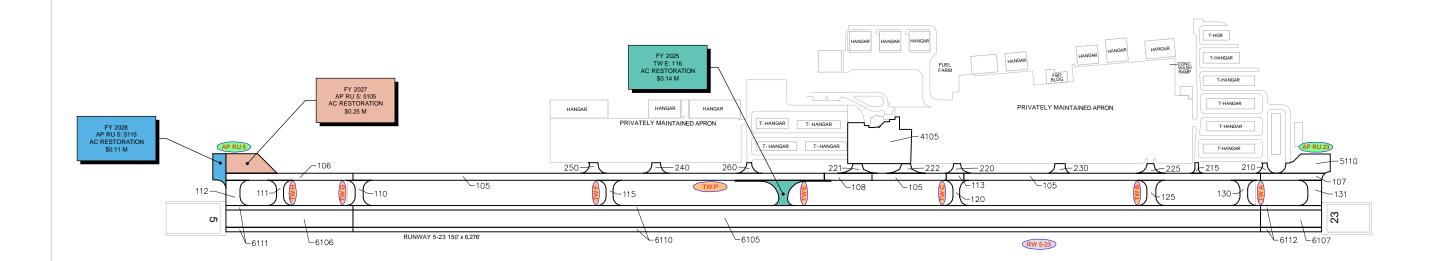






RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.







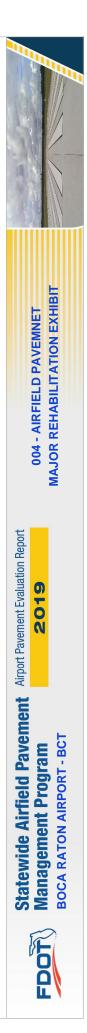


RW 13-31 - TYPICAL RUNWAY BRANCH ID
TWA TYPICAL TAXIWAY BRANCH ID
APS TYPICAL APRON BRANCH ID





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

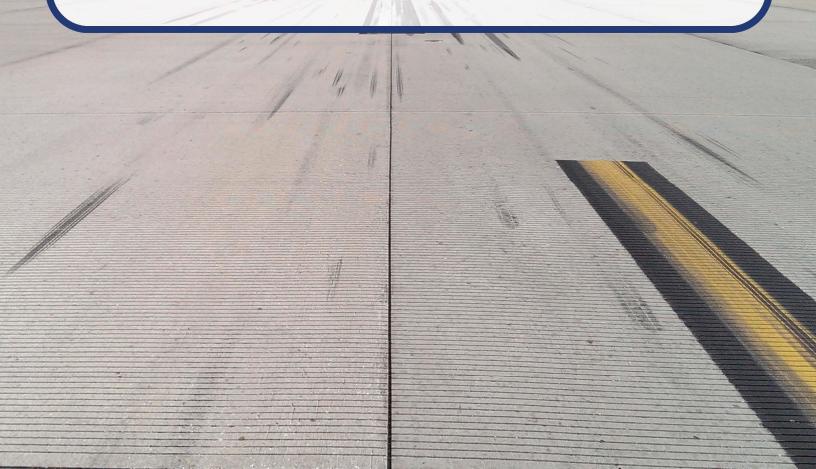


Statewide Airfield Pavement Management Program



Appendix D

Inspection Photograph Documentation







RW 5-23, Section 6105, Sample Unit 382 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Low Severity (57) Weathering



RW 5-23, Section 6111, Sample Unit 84 - Low Severity (48) Longitudinal & Transverse Cracking and Low Severity (57) Weathering

Appendix D D-1







TW E, Section 116, Sample Unit 251 - Low Severity (45) Depression, Low Severity (48) Longitudinal & Transverse Cracking, and Low Severity (57) Weathering



TW P, Section 105, Sample Unit 105 - (42) Bleeding, Low Severity (48) Longitudinal & Transverse Cracking, and Low Severity (57) Weathering

2019 **Evaluation Report**

Boca Raton Airport (BCT)



Appendix D D-3

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AP RU 5, Section 5105, Sample Unit 100 - Low Severity (50) Patching and Low Severity (57) Weathering



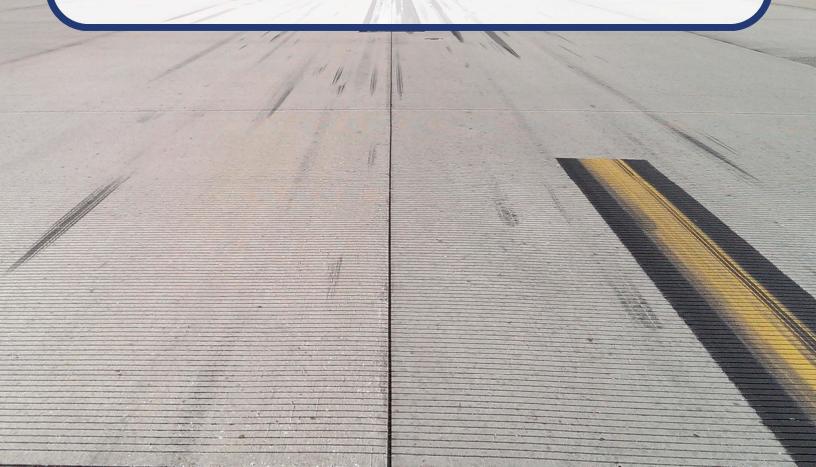
AP RU 5, Section 5115, Sample Unit 201 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (50) Patching, and Low Severity (57) Weathering

Statewide Airfield Pavement Management Program



Appendix E

Inspection Distress Details



Re-Inspection Report

FDOT														
Generated	I Date		8/11/20)19										Page 1 of 3
Network:	BCT					Name:	BOC	CA RATON A	AIRPORT					
Branch:	AP RU 23	3	Nai	me:	RUN-UP	APRON 23		Use:	APRON		Area	ı:	25,516 SqFt	
Section:	5110	O ⁴	f 1	From	1: -				To:	-			Last Const.:	1/1/2010
Surface:	AAC	Family:	FDOT-S AAC	SAPMP-RL-	-AP-	Zone:			Categ	ory:			Rank: P	
Area:	2:	25,516 SqFt	Le	ength:	2	240 Ft		Width:	1	10 Ft				
Slabs:		Slab Len	igth:		Ft	Slab V	Width:		Ft			Joint Leng	t h: F	t
Shoulder:		Street Ty	ype:			Grade	e: 0					Lanes:	0	
Section Co	omments:													
Work Dat	te: 1/1/1996	W	ork Type	BUILT				C	ode: IMPO	ORTED)	Is Majo	or M&R: True	
Work Dat	te: 1/1/2010	W	ork Type	e: MILL and	I OVERL	AY		C	ode: ML-0	OV		Is Majo	or M&R: True	
Last Insp.	Date: 5/16/2	2019	,	TotalSampl	les: 5			Surveye	d: 2					
Condition		88												
Inspection	Commonte:													
-	i Comments.													
	umber: 100	Тур	e:	R	Area	a:	5245	.00 SqFt	1	PCI:	86			
_	umber: 100	Туг)e:]	R	Are	a:	5245	.00 SqFt	1	PCI:	86			
Sample Nu Sample Co	umber: 100	Туј	pe: 1		Are 16.00 Ft		5245	.00 SqFt	1	PCI:	86			
Sample Nu Sample Co 48 L &	umber: 100 omments:	Ту	L			t	5245	.00 SqFt	1	PCI:	86			
Sample Nu Sample Co 48 L & 52 RA	umber: 100 omments: & T CR	Туј	L	10	16.00 Ft	t qFt	5245	.00 SqFt		PCI:	86			
Sample Nu Sample Co 48 L & 52 RA 57 WE	umber: 100 omments: & T CR AVELING		L L L	10	16.00 Ft 05.00 Sq	: qFt qFt		0.00 SqFt		PCI:				
Sample Nu Sample Co 48 L & 52 RA 57 WE	umber: 100 omments: & T CR VELING EATHERING umber: 103		L L L	10 514	16.00 Ft 05.00 Sq 40.00 Sq	: qFt qFt								
Sample No Sample Co 48 L & 52 RA 57 WE Sample No Sample Co	umber: 100 omments: & T CR VELING EATHERING umber: 103		L L L	10 514	16.00 Ft 05.00 Sq 40.00 Sq	t qFt qFt a:								
Sample No Sample Co 48 L & 52 RA 57 WE Sample No Sample Co 48 L &	umber: 100 omments: & T CR VELING EATHERING umber: 103 omments:		L L L pe: 1	1(514 R	16.00 Ft 05.00 Sq 40.00 Sq Area	t qFt qFt a:								

Network: BCT		Name:	BOCA RATON A	IRPORT		
Branch: AP RU 5	Name:	RUN-UP APRON 5	Use:	APRON	Area:	38,331 SqFt
Section: 5105	of 2 F	rom: -		To: -		Last Const.: 1/1/2010
Surface: AAC	Family: FDOT-SAPMP AAC	-RL-AP- Zone:		Category:		Rank: P
Area: 26,5	544 SqFt Length:	240 Ft	Width:	120 Ft		
Slabs:	Slab Length:	Ft Slab V	Width:	Ft	Joint Leng	g th: Ft
Shoulder:	Street Type:	Grade	e: 0		Lanes:	0
Section Comments:						
Work Date: 1/1/1996	Work Type: BUIL	Т	Со	de: IMPORTED	Is Maj	jor M&R: True
Work Date: 1/1/2010	Work Type: MILL	and OVERLAY	Со	de: ML-OV	Is Maj	jor M&R: True
Last Insp. Date: 5/16/20	19 TotalSa	mples: 5	Surveyed	: 2		
Conditions: PCI: 80						
Inspection Comments:						
Sample Number: 100	Type: R	Area:	5600.00 SqFt	PCI: 74		
Sample Comments:						
50 PATCHING	L	1144.00 SqFt				
57 WEATHERING	L	4456.00 SqFt				
Sample Number: 103	Type: R	Area:	5420.00 SqFt	PCI: 86		
Sample Comments:						
48 L & T CR	L	14.00 Ft				
52 RAVELING	L	163.00 SqFt				
57 WEATHERING	L	5257.00 SqFt				

Network:	BCT			Ν	ame: I	BOCA RATON A	AIRPORT		
Branch:	AP RU	5	Name:	RUN-UP A	PRON 5	Use:	APRON	Area:	38,331 SqFt
Section:	5115	C	f 2	From: -			То: -		Last Const.: 1/1/2010
Surface:	AC	Family:	FDOT-SAPM AC	P-RL-AP- Z	one:		Category	:	Rank: P
Area:		11,787 SqFt	Length:	150) Ft	Width:	75	Ft	
Slabs:		Slab Lei	ngth:	Ft	Slab Widt	h:	Ft	Joint	Length: Ft
Shoulder:		Street T	ype:		Grade:	0		Lanes	s: 0
Section Co	omments:								
Work Dat	te: 1/1/2010	W	ork Type: New	Construction - I	nitial	С	ode: NU-IN	Is	Major M&R: True
Last Insp.	Date: 5/10	6/2019	Totals	Samples: 3		Surveye	d: 1		
Condition	s: PCI:	79							
Inspection	n Comments	:							
Sample N	umber: 20	1 Ty	pe: R	Area:	3	750.00 SqFt	PCI	: 79	
Sample Co	omments:								
50 PA	TCHING		L	180.00 SqF	t				
57 WI	EATHERING	Ĵ	L	3499.00 SqF	t				
48 L&	& T CR		L	2.00 Ft					
52 RA	VELING		L	71.00 SqF					

Netwo	ork: BCT			Name:	BOCA RATO	N AIRPORT	
Branc	ch: RW 5-23		Name:	RUNWAY 5-23	Use	e: RUNWAY	Area: 941,550 SqFt
Sectio	on: 6105	of 6		From: -		То: -	Last Const.: 1/1/2010
Surfa	ce: AAC	Family: FDC	DT-SAPM	P-RL-RW- Zone:		Category:	Rank: P
		AAG	C				
Area:	520,000	0 SqFt	Length:	5,200 Ft	Width:	100 Ft	
Slabs:	:	Slab Length:		Ft Slab V	Width:	Ft	Joint Length: Ft
Shoul	der:	Street Type:		Grade	e: 0		Lanes: 0
Sectio	on Comments:						
Work	Date: 1/1/1974	Work T	ype: BUI	LT		Code: IMPORTED	Is Major M&R: True
Work	Date: 1/1/1984	Work T	ype: OVI	ERLAY		Code: IMPORTED	Is Major M&R: True
Work	Date: 1/1/1984	Work T	ype: OVI	ERLAY		Code: IMPORTED	Is Major M&R: True
Work	Date: 1/1/2010	Work T	ype: MIL	L and OVERLAY		Code: ML-OV	Is Major M&R: True
Work	Date: 11/1/2018	Work T	ype: Surf	ace Treatment - Seal Coat		Code: ST-SC	Is Major M&R: False
Last I	Insp. Date: 5/16/2019		TotalS	amples: 104	Surve	eyed: 21	
Condi	itions: PCI: 92						
Inspe	ction Comments:						
Samp	le Number: 304	Type:	R	Area:	5000.00 SqFt	PCI: 89	
Samp	le Comments:						
57	WEATHERING	Ι	_	453.00 SqFt			
52	RAVELING	Ι		466.00 SqFt			
Samp	le Number: 308	Туре:	R	Area:	5000.00 SqFt	PCI: 92	
Samp	le Comments:						
52	RAVELING	Ι		37.00 SqFt			
48	L & T CR	Ι	_	16.00 Ft			
57	WEATHERING	I		744.00 SqFt			
-	le Number: 313	Туре:	R	Area:	5000.00 SqFt	PCI: 90	
Samp	le Comments:						
52	RAVELING		M	18.00 SqFt			
48 52	L & T CR RAVELING	I I		11.00 Ft 10.00 SqFt			
	le Number: 318	Туре:	R	Area:	5000.00 SqFt	PCI: 89	
-	le Comments:	- , p					
-		-					
52 48	RAVELING L & T CR	I I		80.00 SqFt 31.00 Ft			
57	WEATHERING	I		1230.00 SqFt			
Samp	le Number: 322	Туре:	R	Area:	5000.00 SqFt	PCI: 84	
Samp	le Comments:						
57	WEATHERING	Ι	_	713.00 SqFt			
48	L & T CR	Ι	_	121.00 Ft			
52	RAVELING	I		250.00 SqFt	5000 00 0 7		
-	le Number: 326 le Comments:	Туре:	R	Area:	5000.00 SqFt	PCI: 91	
57	WEATHERING	Ι		990.00 SqFt			
48	L & T CR	Ι		16.00 Ft			
52	RAVELING	I		50.00 SqFt			
-	le Number: 332	Type:	R	Area:	5000.00 SqFt	PCI: 90	
Samp	le Comments:						
52	RAVELING	Ι		43.00 SqFt			
48 57	L & T CR WEATHERING	I I		35.00 Ft 1239.00 SqFt			
51		L	-	1237.00 Bqrt			

Samp	le Number: 336	Type:	R	Area:	5000.00 SqFt	PCI: 96	
Samp	le Comments:						
-		-					
57 52	WEATHERING RAVELING		L L	748.00 SqFt 15.00 SqFt			
					5000 00 SaEt	PCI: 92	
-	ole Number: 343	Type:	R	Area:	5000.00 SqFt	PCI: 92	
Samp	le Comments:						
57	WEATHERING	Ι	L	249.00 SqFt			
52	RAVELING		L	25.00 SqFt			
48	L & T CR		Ĺ	45.00 Ft			
Samp	le Number: 350	Type:	R	Area:	5000.00 SqFt	PCI: 94	
Samp	le Comments:						
52	RAVELING	Ι	L	33.00 SqFt			
52	RAVELING		М	3.00 SqFt			
Samp	le Number: 357	Туре:	R	Area:	5000.00 SqFt	PCI: 95	
Samp	le Comments:				-		
-							
48 57	L & T CR WEATHERING		L. L.	6.00 Ft 750.00 SqFt			
			R	Area:	5000.00 SqFt	PCI: 95	
-	ole Number: 364	Type:	К	Агеа:	5000.00 SqFt	I UI, 73	
Samp	ole Comments:						
52	RAVELING		Ĺ	56.00 SqFt			
57	WEATHERING	I	L	742.00 SqFt			
Samp	le Number: 369	Type:	R	Area:	5000.00 SqFt	PCI: 96	
Samp	le Comments:						
57	WEATHERING	Т	L	2000.00 SqFt			
	ble Number: 374	Туре:	R	Area:	5000.00 SqFt	PCI: 90	
-		rype.	К	Aita.	5000.00 Sqrt	1 CI. 90	
Samp	ole Comments:						
48	L & T CR	I	L	40.00 Ft			
52	RAVELING		L	50.00 SqFt			
57	WEATHERING		L	1238.00 SqFt			
-	ble Number: 378	Type:	R	Area:	5000.00 SqFt	PCI: 90	
Samp	le Comments:						
52	RAVELING	I	L	46.00 SqFt			
48	L & T CR		L	25.00 Ft			
57	WEATHERING		Ĺ	1239.00 SqFt			
Samp	ole Number: 382	Type:	R	Area:	5000.00 SqFt	PCI: 88	
Samp	le Comments:						
48	L & T CR	I	L	52.00 Ft			
57	WEATHERING		L	1222.00 SqFt			
52	RAVELING		L	111.00 SqFt			
Samp	le Number: 388	Type:	R	Area:	5000.00 SqFt	PCI: 92	
Samp	le Comments:						
52	RAVELING	Т	L	50.00 SqFt			
52 57	WEATHERING		Ľ	248.00 SqFt			
48	L & T CR	I	Ľ	33.00 Ft			
Samp	ole Number: 392	Type:	R	Area:	5000.00 SqFt	PCI: 93	
Samp	le Comments:						
52	RAVELING	т	L	148.00 SqFt			
52 57	WEATHERING		L	485.00 SqFt			
	ole Number: 396	Туре:	R	Area:	5000.00 SqFt	PCI: 98	
-	le Comments:	- / 1/27		••••			
Jamp							
52	RAVELING	1	L	25.00 SqFt			
Samp	le Number: 399	Type:	R	Area:	5000.00 SqFt	PCI: 100	
Samp	le Comments:						

<no< th=""><th colspan="13"><no distress=""></no></th></no<>	<no distress=""></no>												
Sam	ble Number: 403	Type: R	Area:	5000.00 SqFt	PCI: 97								
Sam	ole Comments:												
52	RAVELING	L	68.00 SqFt										

Network: BC	СТ				Name:	BO	CA RATON	AIRPO	ORT					
Branch: RV	W 5-23		Name:	RUNW	VAY 5-23		Use:	RU	NWAY	Are	ea:	941,55	50 SqFt	
Section: 6106		of 6		From: -				r	Го: -			La	st Const.:	1/1/2010
Surface: AAC	Fa	mily: FD AA		IP-RL-RW-	Zone:			(Category:			Ra	nk: P	
Area:	72,700 S	qFt	Length	:	725 Ft		Width:		100 Ft					
Slabs:	S	lab Length:		Ft	Sla	ab Width:]	Ft		Joint Leng	gth:	F	t
Shoulder:	S	treet Type:			Gı	rade: 0					Lanes:	0		
Section Commer	nts:													
Work Date: 1/1/	/1996	Work	Type: BU	ILT			(Code:	IMPORTE	D	Is Maj	or M&R	: True	
Work Date: 1/1	/2010	Work	Type: MI	LL and OVEI	RLAY		(Code:	ML-OV		Is Maj	jor M&R	: True	
Work Date: 11/	/1/2018	Work	Type: Sur	face Treatme	nt - Seal Co	oat	(Code:	ST-SC		Is Maj	jor M&R	: False	
Last Insp. Date:	5/16/2019		Total	Samples:	14		Survey	ed: 3						
Conditions: P	PCI: 93													
Inspection Com	ments:													
Sample Number	: 288	Type:	R	А	rea:	5000	0.00 SqFt		PCI:	95				
Sample Commer	nts:													
57 WEATHE	ERING		L	750.00	SqFt									
48 L & T CR	ł		L	9.00	Ft									
Sample Number	: 293	Type:	R	А	rea:	5000	0.00 SqFt		PCI:	91				
Sample Commer	nts:													
57 WEATHE	ERING		L	1451.00	SqFt									
52 RAVELIN	NG		L	165.00	SqFt									
Sample Number	: 299	Type:	R	А	rea:	5000	0.00 SqFt		PCI:	94				
Sample Commer	nts:													
57 WEATHE	ERING		L	1500.00	SqFt									
48 L & T CR	R		L	7.00	Ft									

Network:	BCT				Name:	BOO	CA RATON	AIRPORT			
Branch:	RW 5-23		Name:	RUNW	YAY 5-23		Use:	RUNWAY	Area:	941,550) SqFt
Section:	6107	of	6	From: -				То: -		Las	t Const.: 1/1/202
Surface:	AAC	Family:	FDOT-SAPN AAC	/P-RL-RW-	Zone:			Category:		Rai	ık: P
Area:	35,0	000 SqFt	Length	:	350 Ft		Width:	100 Ft			
Slabs:		Slab Len	gth:	Ft	Sla	b Width:		Ft	Joint I	ength:	Ft
Shoulder:		Street Ty	pe:		Gra	ade: 0			Lanes:	0	
Section Co	omments:										
Work Date	e: 1/1/1996	Wa	ork Type: BU	ILT			C	ode: IMPORTED) Is	Major M&R:	True
Work Date	e: 1/1/2010	Wo	ork Type: MI	LL and OVEF	RLAY		C	code: ML-OV	Is	Major M&R:	True
Work Date	e: 11/1/2018	Wo	ork Type: Su	face Treatmer	nt - Seal Co	at	C	Code: ST-SC	Is	Major M&R:	False
Conditions	Date: 5/16/202 s: PCI: 96 Comments:		Total	Samples:	7		Survey	ed: 2			
•	umber: 406	Тур	e: R	A	rea:	5000).00 SqFt	PCI:	97		
Sample Co	omments:										
52 RA	VELING		L	50.00	SqFt						
Sample Nu	umber: 409	Тур	e: R	А	rea:	5000).00 SqFt	PCI:	94		
Sample Co	omments:										
52 RA	VELING		L	208.00	SqFt						

Network: BCT		Name:	BOCA RATON AI	RPORT	
Branch: RW 5-23	Name:	RUNWAY 5-23	Use:	RUNWAY Ar	rea: 941,550 SqFt
Section: 6110	of 6	From: -		То: -	Last Const.: 1/1/2010
Surface: AAC	Family: FDOT-SAPM AAC	P-RL-RW- Zone:		Category:	Rank: P
Area: 260,00	00 SqFt Length:	10,400 Ft	Width:	25 Ft	
Slabs:	Slab Length:	Ft Slab W	idth:	Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade:	0		Lanes: 0
Section Comments:					
Work Date: 1/1/1974	Work Type: BUI	LT	Cod	le: IMPORTED	Is Major M&R: True
Work Date: 1/1/1984	Work Type: OVE	ERLAY	Cod	le: IMPORTED	Is Major M&R: True
Work Date: 1/1/1984	Work Type: OVE	ERLAY	Cod	le: IMPORTED	Is Major M&R: True
Work Date: 1/1/2010	Work Type: MIL	L and OVERLAY	Cod	le: ML-OV	Is Major M&R: True
Work Date: 11/1/2018	Work Type: Surf	ace Treatment - Seal Coat	Cod	le: ST-SC	Is Major M&R: False
Last Insp. Date: 5/16/201	9 Totals	Samples: 52	Surveyed:	: 11	
Conditions: PCI: 91					
Inspection Comments:					
Sample Number: 104	Type: R	Area:	5000.00 SqFt	PCI: 92	
Sample Comments:					
52 RAVELING	L	198.00 SqFt			
57 WEATHERING	L	480.00 SqFt			
Sample Number: 128	Type: R	Area:	5000.00 SqFt	PCI: 84	
Sample Comments:					
48 L & T CR	L	10.00 Ft			
52 RAVELING	L	555.00 SqFt			
57 WEATHERING	L	667.00 SqFt			
Sample Number: 152	Type: R	Area:	5000.00 SqFt	PCI: 95	
Sample Comments:					
52 RAVELING	L	75.00 SqFt			
57 WEATHERING	L	493.00 SqFt			
Sample Number: 180	Type: R	Area:	5000.00 SqFt	PCI: 91	
Sample Comments:					
52 RAVELING	L	450.00 SqFt			
Sample Number: 196	Type: R	Area:	5000.00 SqFt	PCI: 89	
Sample Comments:					
52 RAVELING	L	600.00 SqFt			
Sample Number: 516	Type: R	Area:	5000.00 SqFt	PCI: 90	
Sample Comments:					
52 RAVELING	L	84.00 SqFt			
48 L & T CR	L	46.00 Ft			
57 WEATHERING	L	492.00 SqFt			
Sample Number: 528	Type: R	Area:	5000.00 SqFt	PCI: 88	
Sample Comments:					
52 RAVELING	L	489.00 SqFt			
57 WEATHERING	L Type: P	677.00 SqFt	5000 00 Sat	DCI. 00	
Sample Number: 540	Type: R	Area:	5000.00 SqFt	PCI: 88	
Sample Comments:					
52 RAVELING57 WEATHERING	L L	600.00 SqFt 440.00 SqFt			

Sample Number: 568	Type:	R	Area:	5000.00 SqFt	PCI: 89	
Sample Comments:						
48 L & T CR	L		21.00 Ft			
52 RAVELING	L		100.00 SqFt			
57 WEATHERING	L		980.00 SqFt			
Sample Number: 580	Type:	R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:						
52 RAVELING	L		222.00 SqFt			
Sample Number: 600	Type:	R	Area:	5000.00 SqFt	PCI: 96	
Sample Comments:						
52 RAVELING	L		100.00 SqFt			

Network:	BCT					Name	e: BOC	CA RATON	AIRP	ORT					
Branch:	RW 5-23		N	ame:	RUNWA	Y 5-23	3	Use:	RU	JNWAY	A	rea:	9	41,550 SqFt	
Section:	6111	0	f 6	Fr	om: -					То: -				Last Const.	: 1/1/2010
Surface:	AAC	Family:	FDOT AAC	-SAPMP-I	RL-RW-	Zone	:			Category:				Rank: P	
Area:	3	6,350 SqFt	I	Length:	1,4	450 Ft		Width:		25 F	t				
Slabs:		Slab Ler	ngth:		Ft	5	Slab Width:			Ft		Joint L	ength:		Ft
Shoulder:		Street T	ype:				Grade: 0					Lanes:	0		
Section Co	omments:														
Work Date	e: 1/1/1996	W	ork Typ	e: BUILT	,				Code:	IMPORTI	ED	Is I	Major I	M&R: True	
Work Date	e: 1/1/2010	W	ork Typ	e: MILL a	and OVERI	.AY			Code:	ML-OV		Is l	Major I	M&R: True	
Work Date	e: 11/1/2018	W	ork Typ	e: Surface	e Treatment	- Seal	Coat		Code:	ST-SC		Is l	Major I	M&R: False	
Last Insp.	Date: 5/16/	2019		TotalSan	nples: 8			Survey	ed: 2	2					
Conditions	s: PCI:	90													
Inspection	Comments:														
Sample Nu	umber: 084	Туј	pe:	R	Are	ea:	5675	.00 SqFt		PCI:	91				
Sample Co	omments:														
48 L&	λ T CR		L		28.00 F	ťt									
57 WE	EATHERING		L		2838.00 S	qFt									
Sample Nu	umber: 492	Туј	pe:	R	Are	ea:	3750	.00 SqFt		PCI:	89				
Sample Co	omments:														
52 RA	VELING		М		2.00 S	qFt									
52 RA	VELING		L		183.00 S	qFt									

Network:	ВСТ			Nai	ne: BO	CA RATON	AIRP	ORT			
Branch:	RW 5-23]	Name: RU	NWAY 5-	-23	Use:	RU	JNWAY	Area:	941,550 Sc	lFt
Section: 611	12	of 6	From:	-				То: -		Last C	onst.: 1/1/2010
Surface: AA	C Fan	nily: FDO AAC	T-SAPMP-RL-RV	/- Zor	ie:			Category:		Rank:	Р
Area:	17,500 Sq	Ft	Length:	700]	Ft	Width:		25 Ft			
Slabs:	Sla	ab Length:]	ł	Slab Width:			Ft	Joint Leng	gth:	Ft
Shoulder:	Sti	reet Type:			Grade: 0				Lanes:	0	
Section Comm	ients:										
Work Date: 1	/1/1996	Work Ty	ype: BUILT			(Code:	IMPORTED	Is Ma	jor M&R: Ti	rue
Work Date: 1	/1/2010	Work Ty	ype: MILL and O	/ERLAY		(Code:	ML-OV	Is Ma	jor M&R: Ti	rue
Work Date: 1	1/1/2018	Work Ty	pe: Surface Treat	ment - Sea	al Coat	(Code:	ST-SC	Is Ma	jor M&R: Fa	alse
Last Insp. Dat	e: 5/16/2019		TotalSamples:	4		Survey	ed: 1	1			
Conditions:	PCI: 100										
Inspection Cor	mments:										
Sample Numb	er: 604	Туре:	R	Area:	375	0.00 SqFt		PCI: 100)		
Sample Comm	ients:										

<No Distress>

Network:	BCT				Name	e: BOG	CA RATON	AIRPORT		
Branch:	TW A		Name:	TAXIV	VAY A		Use:	TAXIWAY	Area:	8,671 SqFt
Section:	130	0	f 1 I	From: -				To: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPMI AAC	P-RL-TW-	Zone:	:		Category:		Rank: P
Area:		8,671 SqFt	Length:		145 Ft		Width:	45 Ft		
Slabs:		Slab Lei	ngth:	Ft	5	Slab Width:		Ft	Joint Length:	Ft
Shoulder:		Street T	ype:		(Grade: 0			Lanes: 0	
Section Co	omments:									
Work Dat	te: 1/1/1974	W	ork Type: BUII	ЪТ			C	ode: IMPORTED	Is Major	M&R: True
Work Dat	te: 1/1/1984	W	ork Type: OVE	RLAY			C	ode: IMPORTED	Is Major	M&R: True
Work Dat	te: 1/1/2010	W	ork Type: MIL	L and OVEF	RLAY		C	Code: ML-OV	Is Major	M&R: True
Last Insp.	Date: 5/16	5/2019	TotalS	amples: 2	2		Surveye	ed: 1		
Condition	s: PCI:	81								
Inspection	n Comments	:								
Sample Nu	umber: 50	1 Ty	pe: R	A	rea:	4336	5.00 SqFt	PCI: 8	31	
Sample Co	omments:									
52 RA	VELING		L	130.00	SqFt					
48 L&	& T CR		L	112.00	Ft					
57 WE	EATHERING	Ĵ	L	4206.00	SqFt					

Network:	BCT				Name	: BOG	CA RATON	AIRPO	ORT			
Branch:	TW B		Name:	TAXI	WAY B		Use:	TA	XIWAY	Area:	9,396 \$	SqFt
Section:	125	C	of 1	From:	-				То: -		Last (Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAP AAC	MP-RL-TW-	Zone:			1	Category:		Rank	: P
Area:		9,396 SqFt	Lengt	h:	145 Ft		Width:		40 Ft			
Slabs:		Slab Le	ngth:	Ft	S	Slab Width:			Ft	Joint Leng	gth:	Ft
Shoulder:		Street T	ype:		(Grade: 0				Lanes:	0	
Section Co	mments:											
Work Date	e: 1/1/1974	W	ork Type: B	UILT			(Code:	IMPORTED	Is Maj	or M&R:	Ггие
Work Date	e: 1/1/1984	W	ork Type: O	VERLAY			(Code:	IMPORTED	Is Maj	or M&R:	Ггие
Work Date	e: 1/1/1984	W	ork Type: O	VERLAY			(Code:	IMPORTED	Is Maj	or M&R:	Ггие
Work Date	e: 1/1/2010	W	/ork Type: M	ILL and OVE	RLAY		(Code:	ML-OV	Is Maj	or M&R:	Ггие
Last Insp.	Date: 5/16	/2019	Tota	alSamples:	2		Survey	ed: 1				
Conditions	s: PCI:	85										
Inspection	Comments:											
Sample Nu	imber: 400) Ty	pe: R	A	rea:	4823	.00 SqFt		PCI: 85			
Sample Co	omments:											
48 L&	t CR		L	30.00	Ft							
	ATHERING	ŕ	L	4678.00								
52 RA	VELING		L	145.00	SqFt							

Network:	BCT				Nan	ne: BOO	CA RATON	AIRP	ORT				
Branch:	TW C		Name	: TAXI	WAY C		Use:	TA	XIWAY	Area:	11,4	47 SqFt	
Section:	120	C	of 2	From:	-				To: -		La	st Const.:	1/1/2010
Surface:	AAC	Family:	FDOT-SA AAC	PMP-RL-TW-	Zon	e:			Category:		R	ank: P	
Area:		7,946 SqFt	Leng	gth:	145 F	ťt	Width:		40 Ft				
Slabs:		Slab Lei	ngth:	Ft		Slab Width:			Ft	Joint L	ength:	H	ft
Shoulder:		Street T	ype:			Grade: 0				Lanes:	0		
Section Co	omments:												
Work Date	e: 1/1/1974	W	ork Type:	BUILT			(Code:	IMPORTED	Is N	Aajor M&F	R: True	
Work Date	e: 1/1/1984	W	ork Type: (OVERLAY			(Code:	IMPORTED	Is N	/lajor M&F	R: True	
Work Dat	e: 1/1/1984	W	ork Type: (OVERLAY			(Code:	IMPORTED	Is N	Aajor M&F	R: True	
Work Date	e: 1/1/2010	W	ork Type: 1	MILL and OVE	RLAY		(Code:	ML-OV	Is N	Aajor M&F	R: True	
Conditions	Date: 5/16 s: PCI: Comments	82	To	talSamples:	2		Survey	red: 1	1				
Sample Nu	imber: 30	0 Ty	pe: R	A	Area:	4073	3.00 SqFt		PCI: 82				
Sample Co	omments:												
52 RA	EATHERING VELING 2 T CR	Ĵ	L L L	3992.00 81.00 100.00	SqFt								

Network:	BCT				Nam	e: BO	CA RATON	AIRPORT		
Branch:	TW C		Name:	TAXIW	VAY C		Use:	TAXIWAY	Area:	11,447 SqFt
Section:	220	C	of 2	From: -				То: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPM AAC	IP-RL-TW-	Zone	2:		Category:		Rank: P
Area:		3,501 SqFt	Length	:	50 F	t	Width:	35 Ft		
Slabs:		Slab Le	ngth:	Ft		Slab Width:		Ft	Joint Ler	ngth: Ft
Shoulder:		Street T	ype:			Grade: 0			Lanes:	0
Section C	omments:									
Work Dat	te: 1/1/1984	W	ork Type: BU	ILT			(Code: IMPORTED	Is Ma	ajor M&R: True
Work Dat	te: 1/1/2010	W	ork Type: MI	LL and OVER	LAY		(Code: ML-OV	Is Ma	ajor M&R: True
Last Insp.	Date: 5/10	6/2019	Total	Samples: 1			Survey	ed: 1		
Condition	s: PCI:	83								
Inspectior	n Comments	:								
Sample N	umber: 80	1 Ty	pe: R	Α	rea:	350	1.00 SqFt	PCI: 8	33	
Sample C	omments:									
48 L <i>a</i>	& T CR		L	84.00	Ft					
	VELING		L	70.00	-					
57 WI	EATHERING	Ĵ	L	3431.00	SqFt					

Network:	BCT			Na	me: BO	CA RATON A	AIRPORT		
Branch:	TW E		Name:	TAXIWAY	Е	Use:	TAXIWAY	Area:	14,729 SqFt
Section:	116	of 1	F	rom: -			То: -		Last Const.: 1/1/2010
Surface:	AC	Family: FI A	DOT-SAPMF	P-RL-TW- Zo	ne:		Category:		Rank: P
Area:	1	14,729 SqFt	Length:	145	Ft	Width:	60 Ft		
Slabs:		Slab Length	:	Ft	Slab Width:		Ft	Joint Ler	ngth: Ft
Shoulder:		Street Type:			Grade: 0			Lanes:	0
Section Cor	mments:								
Work Date	: 1/1/2010	Work	Type: New	Construction - In	itial	Co	ode: NU-IN	Is Ma	ajor M&R: True
Last Insp. I	Date: 5/16/	/2019	TotalSa	amples: 4		Surveye	d: 1		
Conditions :	PCI:	71							
Inspection	Comments:								
Sample Nu	mber: 251	Туре:	R	Area:	350	0.00 SqFt	PCI:	71	
Sample Cor	mments:								
48 L&	T CR		L	110.00 Ft					
45 DEP	RESSION		L	172.00 SqFt					
57 WEA	ATHERING		L	3500.00 SqFt					

Network:	BCT				Nai	me: BO	CA RATO	N AIRP	ORT			
Branch:	TW F		Nam	e: TAXI	WAY F	7	Use	: TA	AXIWAY	Area:	7,946 SqFt	
Section:	115	C	of 1	From:	-				To: -		Last Const.:	1/1/2010
Surface:	AAC	Family:	FDOT-SA AAC	APMP-RL-TW-	Zor	ne:			Category:		Rank: P	
Area:		7,946 SqFt	Len	gth:	145	Ft	Width:		40 Ft			
Slabs:		Slab Le	ngth:	Ft		Slab Width:			Ft	Joint Length:	Ft	
Shoulder:		Street T	ype:			Grade: 0				Lanes: 0		
Section C	omments:											
Work Dat	te: 1/1/1974	W	ork Type:	BUILT				Code:	IMPORTED	Is Major	M&R: True	
Work Dat	te: 1/1/1984	W	ork Type:	OVERLAY				Code:	IMPORTED	Is Major	M&R: True	
Work Dat	te: 1/1/1984	W	ork Type:	OVERLAY				Code:	IMPORTED	Is Major	M&R: True	
Work Dat	te: 1/1/2010	W	ork Type:	MILL and OVE	RLAY			Code:	ML-OV	Is Major	M&R: True	
Last Insp.	. Date: 5/16	/2019	Т	otalSamples:	2		Surve	yed:	1			
Condition	s: PCI:	86										
Inspection	n Comments:											
Sample N	umber: 200	Ту	pe: R	1	Area:	407	3.00 SqFt		PCI: 86			
Sample C	omments:											
57 WI	EATHERING		L	3992.00	SqFt							
52 RA	VELING		L	81.00	SqFt							
48 L&	& T CR		L	24.00	Ft							

Network:	BCT				Name:	BOC	A RATON A	AIRPORT			
Branch:	TW G		Name:	TAXI	WAY G		Use:	TAXIWAY	Area:	8,671 Sql	Ft
Section:	110	of	f 1	From:	-			To: -		Last Co	nst.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPM AAC	P-RL-TW-	Zone:			Category:		Rank:	Р
Area:		8,671 SqFt	Length:		145 Ft		Width:	45 Ft	t		
Slabs:		Slab Len	gth:	Ft	Slat	Width:		Ft	Joint Len	gth:	Ft
Shoulder:		Street Ty	pe:		Gra	de: 0			Lanes:	0	
Section Co	omments:										
Work Dat	e: 1/1/1974	We	ork Type: BUI	LT			С	ode: IMPORTE	ED Is Ma	jor M&R: Tru	ıe
Work Dat	e: 1/1/1984	We	ork Type: OV	ERLAY			C	ode: IMPORTE	ED Is Ma	jor M&R: Tru	ıe
Work Dat	e: 1/1/1984	We	ork Type: OV	ERLAY			C	ode: IMPORTE	ED Is Ma	jor M&R: Tru	ıe
Work Dat	e: 1/1/2010	We	ork Type: MII	L and OVE	RLAY		C	ode: ML-OV	Is Ma	jor M&R: Tri	ıe
Last Insp.	Date: 5/16/	2019	Totals	Samples:	2		Surveye	d: 1			
Condition	s: PCI:	85									
Inspection	Comments:										
Sample Nu	umber: 101	Тур	e: R	A	Area:	4335	00 SqFt	PCI:	85		
Sample Co	omments:										
52 RA	VELING		L	43.00	SqFt						
48 L &	λ T CR		L	86.00	Ft						
57 WE	EATHERING		L	4292.00							

Network:	BCT				Nam	ne: BO	CA RATON	AIRPORT		
Branch:	TW H		Name:	TAXIV	WAY H		Use:	TAXIWAY	Area:	7,946 SqFt
Section:	111	0	f 1	From:	-			То: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPMI AAC	P-RL-TW-	Zon	e:		Category:		Rank: P
Area:		7,946 SqFt	Length:		145 F	t	Width:	40 Ft		
Slabs:		Slab Ler	igth:	Ft		Slab Width:		Ft	Joint Length	: Ft
Shoulder:		Street T	ype:			Grade: 0			Lanes: 0	
Section Co	omments:									
Work Dat	te: 1/1/1996	W	ork Type: BUII	LT			C	ode: IMPORTED	Is Major	M&R: True
Work Dat	te: 1/1/2010	W	ork Type: MIL	L and OVE	RLAY		C	ode: ML-OV	Is Major	M&R: True
Last Insp.	Date: 5/16	5/2019	TotalS	amples:	2		Survey	ed: 1		
Condition	s: PCI:	82								
Inspection	o Comments	:								
Sample Nu	umber: 10	1 Ty	pe: R	A	rea:	397	3.00 SqFt	PCI: 8	32	
Sample Co	omments:									
57 WE	EATHERING	Ĵ	L	3894.00	SqFt					
52 RA	VELING		L	79.00	-					
48 L&	& T CR		L	104.00	-					

Network: BCT		Name:	BOCA RATON AIRE	PORT	
Branch: TW P	Name:	TAXIWAY P		AXIWAY Area	: 276,667 SqFt
Section: 105	of 7 F	'rom: -		То: -	Last Const.: 1/1/2010
	mily: FDOT-SAPMP			Category:	Rank: P
	AAC				
Area: 193,060 S		4,930 Ft	Width:	40 Ft	
	lab Length:	Ft Slab Wi			Joint Length: Ft
Shoulder: Si Section Comments:	treet Type:	Grade:	0		Lanes: 0
				N (DODTED	
Work Date: 1/1/1974	Work Type: BUIL	.1	Code:	IMPORTED	Is Major M&R: True
Work Date: 1/1/1984	Work Type: OVE	RLAY	Code:	IMPORTED	Is Major M&R: True
Work Date: 1/1/1984	Work Type: OVE	RLAY	Code:	IMPORTED	Is Major M&R: True
Work Date: 1/1/2010	Work Type: MILL	and OVERLAY	Code:	ML-OV	Is Major M&R: True
Last Insp. Date: 5/16/2019	TotalSa	mples: 48	Surveyed:	6	
Conditions: PCI: 87					
Inspection Comments:					
Sample Number: 105	Type: R	Area:	4000.00 SqFt	PCI: 77	
Sample Comments:					
48 L & T CR	L	116.00 Ft			
42 BLEEDING	N	22.00 SqFt			
57 WEATHERING52 RAVELING	L L	3880.00 SqFt 120.00 SqFt			
Sample Number: 115	Type: R	Area:	4000.00 SqFt	PCI: 90	
Sample Comments:			-		
48 L & T CR	L	20.00 Ft			
57 WEATHERING	L	4000.00 SqFt			
Sample Number: 125	Type: R	Area:	4000.00 SqFt	PCI: 88	
Sample Comments:					
52 RAVELING	L	40.00 SqFt			
57 WEATHERING48 L & T CR	L L	3960.00 SqFt 14.00 Ft			
Sample Number: 135	Type: R	Area:	4000.00 SqFt	PCI: 90	
Sample Comments:	-JPC K				
57 WEATHERING	L	4000.00 SqFt			
48 L & T CR	L	15.00 Ft			
Sample Number: 145 Sample Comments:	Type: R	Area:	4000.00 SqFt	PCI: 87	
-	т	20(0.00 0 5)			
57 WEATHERING52 RAVELING	L L	3960.00 SqFt 40.00 SqFt			
48 L & T CR	L	18.00 Ft			
Sample Number: 150	Type: R	Area:	4000.00 SqFt	PCI: 92	
Sample Comments:					
57 WEATHERING	L	4000.00 SqFt			
48 L & T CR	L	1.00 Ft			

Network:	BCT				Nam	e: BO	CA RATON	AIRPC	RT				
Branch:	TW P		Nam	e: TAXI	WAY P		Use:	TAX	KIWAY	Area	:	276,667 SqFt	
Section:	106	0	f 7	From:	-			1	ſo: -			Last Const.:	1/1/2010
Surface:	AAC	Family:	FDOT-SA AAC	APMP-RL-TW-	Zone	e:		(Category:			Rank: P	
Area:		29,080 SqFt	Len	gth:	725 F	t	Width:		40 F	't			
Slabs:		Slab Lei	ngth:	Ft		Slab Width:		F	⁷ t		Joint Lengt	t h: F	t
Shoulder:		Street T	ype:			Grade: 0					Lanes:	0	
Section Co	omments:												
Work Dat	e: 1/1/1990	6 W	ork Type:	BUILT			(Code:	IMPORT	ED	Is Majo	or M&R: True	
Work Dat	e: 1/1/2010	0 W	ork Type:	MILL and OVE	RLAY		(Code:	ML-OV		Is Majo	or M&R: True	
Last Insp.	Date: 5/1	16/2019	Te	otalSamples:	7		Survey	red: 2					
Condition	s: PCI:	90											
Inspection	Comment	s:											
Sample Nu	umber: 0	93 Ty	pe: R	A	Area:	5080).00 SqFt		PCI:	91			
Sample Co	omments:												
48 L&	t CR		L	12.00	Ft								
57 WE	EATHERIN	G	L	5080.00	SqFt								
Sample Nu	umber: 0	98 Ty]	pe: R	A	rea:	4000	0.00 SqFt		PCI:	90			
Sample Co	omments:												
57 WE	EATHERIN	G	L	4000.00	SqFt								
48 L &	ε T CR		L	17.00	Ft								

Network:	BCT				Nam	e: BOG	CA RATON	AIRP	ORT			
Branch:	TW P		Name:	TAXIV	VAY P		Use:	TA	XIWAY	Area:	276,667 SqFt	
Section:	107	(of 7	From: -					То: -		Last Const.:	1/1/2010
Surface:	AAC	Family:	FDOT-SAPN AAC	IP-RL-TW-	Zone	2:			Category:		Rank: P	
Area:		14,241 SqFt	Length	:	400 F	t	Width:		40 Ft			
Slabs:		Slab Le	ngth:	Ft		Slab Width:			Ft	Joint Len	gth: F	ťt
Shoulder:		Street 7	ype:			Grade: 0				Lanes:	0	
Section Co	omments:											
Work Dat	e: 1/1/1996	ō V	Vork Type: BU	ILT				Code:	IMPORTED	Is Ma	jor M&R: True	
Work Dat	e: 1/1/2010) V	Vork Type: MI	LL and OVEF	RLAY			Code:	ML-OV	Is Ma	ijor M&R: True	
Last Insp.	Date: 5/1	6/2019	Total	Samples: 4	1		Survey	ed: 1	l			
Condition Inspection	s: PCI: Comments	89 s:										
Sample Nu	umber: 15	54 Ty	pe: R	А	rea:	3000).00 SqFt		PCI: 89			
Sample Co	omments:											
	& T CR EATHERIN	G	L L	29.00 3000.00								

Network:	BCT				Nan	ne: BO	CA RATON	AIRPORT		
Branch:	TW P		Name:	TAXI	WAY P		Use:	TAXIWAY	Area:	276,667 SqFt
Section:	108	C	of 7	From:	-			То: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPM AAC	P-RL-TW-	Zon	e:		Category:		Rank: P
Area:		10,940 SqFt	Length:		225 F	ł	Width:	40 Ft		
Slabs:		Slab Le	ngth:	Ft		Slab Width:		Ft	Joint I	Length: Ft
Shoulder:		Street T	уре:			Grade: 0			Lanes	: 0
Section Co	omments:									
Work Dat	te: 1/1/1990	5 W	ork Type: BUI	LT				Code: IMPORTEI) Is	Major M&R: True
Work Dat	te: 1/1/2010) W	ork Type: MIL	L and OVE	RLAY			Code: ML-OV	Is	Major M&R: True
Last Insp.	Date: 5 /1	6/2019	TotalS	amples:	3		Survey	red: 1		
Condition	s: PCI:	80								
Inspection	n Comment	s:								
Sample N	umber: 12	29 Ty	pe: R	A	Area:	328	0.00 SqFt	PCI:	80	
Sample C	omments:									
48 L&	& T CR		L	130.00	Ft					
	EATHERIN	G	L	3247.00	SqFt					
52 RA	VELING		L	33.00	SqFt					

Network:	BCT				Nam	ne: BO	CA RATON	AIRPORT		
Branch:	TW P		Name:	TAXIV	WAY P		Use:	TAXIWAY	Area:	276,667 SqFt
Section:	112	C	of 7	From:	-			То: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPMI AAC	P-RL-TW-	Zon	e:		Category:		Rank: P
Area:		12,673 SqFt	Length:		145 F	t	Width:	80 Ft		
Slabs:		Slab Le	ngth:	Ft		Slab Width:		Ft	Joint Le	ength: Ft
Shoulder:		Street T	ype:			Grade: 0			Lanes:	0
Section Co	omments:									
Work Dat	e: 1/1/1996	5 W	ork Type: BUII	ЪТ			(Code: IMPORTED	Is N	fajor M&R: True
Work Dat	e: 1/1/2010) W	ork Type: MIL	L and OVE	RLAY		(Code: ML-OV	Is N	Iajor M&R: True
Last Insp.	Date: 5/1	6/2019	TotalS	amples:	2		Survey	ed: 1		
Condition	s: PCI:	85								
Inspection	Comment	s:								
Sample Nu	umber: 10	00 Ty	pe: R	A	rea:	633	7.00 SqFt	PCI: 8	35	
Sample Co	omments:						-			
57 WE	EATHERIN	G	L	6147.00	SqFt					
48 L&	& T CR		L	38.00	-					
52 RA	VELING		L	190.00	SqFt					

Network: Bo	СТ				Nam	ne: BO	CA RATON	AIRPOR	Т			
Branch: T	W P		Name:	TAXIW	AY P		Use:	TAXI	WAY	Area:	276,667	7 SqFt
Section: 113		of	7	From: -				To	: -		Las	t Const.: 1/1/20
Surface: AAC	2	Family:	FDOT-SAPM AAC	P-RL-TW-	Zon	e:		Ca	tegory:		Ran	ık: P
Area:	4,000	9 SqFt	Length:		50 F	t	Width:		40 Ft			
Slabs:		Slab Leng	gth:	Ft		Slab Width:		Ft		Joint Leng	gth:	Ft
Shoulder:		Street Ty	pe:			Grade: 0				Lanes:	0	
Section Comme	nts:											
Work Date: 1/1	/1996	Wo	ork Type: BUI	LT				Code: IN	APORTED	Is Maj	jor M&R:	True
Work Date: 1/1	/2010	Wo	ork Type: MIL	L and OVER	LAY			Code: M	IL-OV	Is Maj	jor M&R:	True
Last Insp. Date:	5/16/2019		Totals	Samples: 1			Survey	ved: 1				
Conditions: F	PCI: 90											
Inspection Com	ments:											
Sample Number	: 134	Тура	e: R	A	rea:	400	0.00 SqFt		PCI: 90			
Sample Comme	nts:											
57 WEATHI	ERING		L	3920.00	SqFt							
52 RAVELI	NG		L	80.00	SqFt							

Network:	BCT			N	ame: BO	CA RATON A	AIRPORT		
Branch:	TW P		Name:	TAXIWAY	Р	Use:	TAXIWAY	Area:	276,667 SqFt
Section:	131	of	7 F	rom: -			То: -		Last Const.: 1/1/2010
Surface:	AAC		FDOT-SAPMP AAC	-RL-TW- Z	one:		Category:		Rank: P
Area:	12,6	573 SqFt	Length:	14:	5 Ft	Width:	12,673 Ft		
Slabs:		Slab Leng	gth:	Ft	Slab Width:		Ft	Joint Le	ngth: Ft
Shoulder:		Street Typ	pe:		Grade: 0			Lanes:	0
Section Cor	mments:								
Work Date	: 1/1/1996	Wo	rk Type: BUIL	Т		С	ode: IMPORTED	Is M	ajor M&R: True
Work Date	: 1/1/2010	Wo	rk Type: MILL	and OVERLA	Y	C	ode: ML-OV	Is M	ajor M&R: True
Last Insp. I	Date: 5/16/20	19	TotalSa	mples: 2		Surveye	d: 1		
Conditions:	: PCI: 84								
Inspection (Comments:								
Sample Nu	mber: 100	Туре	e: R	Area:	633	7.00 SqFt	PCI: 84	1	
Sample Cor	mments:								
48 L&	T CR		L	5.00 Ft					
52 RAV	VELING		L	62.00 SqF	t				
50 D.17	TCHING		L	156.00 SqF	t				
50 PAT									

Network:	BCT				Nam	e: BOG	CA RATON	AIRPORT		
Branch:	TW P10		Name:	TAXIV	VAY P1	0	Use:	TAXIWAY	Area:	4,078 SqFt
Section:	250	0	f 1	From: -				To: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPMI AAC	P-RL-TW-	Zone	:		Category:		Rank: P
Area:		4,078 SqFt	Length:		60 Ft		Width:	56 Ft		
Slabs:		Slab Ler	ıgth:	Ft		Slab Width:		Ft	Joint Le	ngth: Ft
Shoulder	:	Street T	ype:			Grade: 0			Lanes:	0
Section C	omments:									
Work Da	te: 1/1/2002	W	ork Type: New	Construction	n - AC		С	ode: NC-AC	Is M	lajor M&R: True
Work Da	te: 1/1/2010	W	ork Type: MIL	L and OVER	RLAY		C	ode: ML-OV	Is M	lajor M&R: True
Last Insp	. Date: 5/16	5/2019	TotalS	amples: 1	_		Surveye	e d: 1		
Conditio	ns: PCI:	81								
Inspectio	n Comments:	:								
Sample N	umber: 80:	5 Ty	pe: R	Α	rea:	4078	3.00 SqFt	PCI:	81	
Sample C	comments:						-			
52 R/	AVELING		L	82.00	SqFt					
57 W	EATHERING	í	L	3996.00						
48 L	& T CR		L	129.00	Ft					

Network:	BCT			Nam	e: BOG	CA RATON .	AIRPORT		
Branch:	TW P2		Name:	TAXIWAY P2	2	Use:	TAXIWAY	Area:	2,572 SqFt
Section:	210	0	f 1 F	rom: -			To: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	DEFAULT	Zone	:		Category:		Rank: P
Area:		2,572 SqFt	Length:	59 F	t	Width:	30 Ft	t	
Slabs:		Slab Ler	igth:	Ft	Slab Width:		Ft	Joint Lengt	h: Ft
Shoulder:		Street T	ype:		Grade: 0			Lanes:	0
Section Co	mments:								
Work Date	e: 1/1/1996	W	ork Type: New	Construction - AC		С	ode: NC-AC	Is Majo	or M&R: True
Work Date	e: 1/1/2010	W	ork Type: MILL	and OVERLAY		С	ode: ML-OV	Is Majo	r M&R: True
Last Insp.]	Date: 5/16	5/2019	TotalSa	mples: 1		Surveye	ed: 1		
Conditions	: PCI:	83							
Inspection	Comments	:							
Sample Nu	mber: 79	9 Туј	e: R	Area:	2572	2.00 SqFt	PCI:	83	
Sample Co	mments:								
52 RA'	VELING		М	22.00 SqFt					
52 RA	VELING		L	77.00 SqFt					
48 L&	TCR		L	45.00 Ft					

Network:	BCT			Nar	ne: BO	CA RATON A	AIRPORT		
Branch:	TW P3		Name:	TAXIWAY P	23	Use:	TAXIWAY	Area:	1,488 SqFt
Section:	215	0	f 1	From: -			To: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	DEFAULT	Zor	ie:		Category:		Rank: P
Area:		1,488 SqFt	Length:	61 1	Ft	Width:	20 Ft		
Slabs:		Slab Lei	ngth:	Ft	Slab Width:		Ft	Joint Length:	: Ft
Shoulder:		Street T	ype:		Grade: 0			Lanes: 0	
Section Cor	nments:								
Work Date:	: 1/1/1996	W	ork Type: New	Construction - AC	;	C	ode: NC-AC	Is Major	M&R: True
Work Date:	: 1/1/2010	W	ork Type: MIL	L and OVERLAY		C	ode: ML-OV	Is Major	M&R: True
Last Insp. I	Date: 5/16	5/2019	TotalS	amples: 1		Surveye	d: 1		
Conditions:	PCI:	77							
Inspection (Comments	:							
Sample Nu	mber: 80	0 Ty	pe: R	Area:	1489	9.00 SqFt	PCI:	77	
Sample Cor	mments:								
52 RAV	/ELING		L	60.00 SqFt					
48 L&	T CR		L	63.00 Ft					
57 WEA	ATHERING	ŕ	L	1429.00 SqFt					

Network:	BCT				Nam	e: BO	CA RATON	AIRPORT		
Branch:	TW P4		Name:	TAXIW	AY P4	ŀ	Use:	TAXIWAY	Area:	3,670 SqFt
Section:	225	0	f 1	From: -				То: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPM AAC	P-RL-TW-	Zone	:		Category:		Rank: P
Area:		3,670 SqFt	Length:		55 Ft	t	Width:	40 Ft		
Slabs:		Slab Ler	ngth:	Ft		Slab Width:		Ft	Joint Length	: Ft
Shoulder:		Street T	ype:			Grade: 0			Lanes: 0	
Section Co	omments:									
Work Dat	te: 1/1/1984	W	ork Type: BUI	LT			C	Code: IMPORTED	Is Major	M&R: True
Work Dat	te: 1/1/2010	W	ork Type: MIL	L and OVER	LAY		C	Code: ML-OV	Is Major	M&R: True
Last Insp.	Date: 5/16	5/2019	Totals	Samples: 1			Survey	ed: 1		
Condition	s: PCI:	85								
Inspection	o Comments	:								
Sample N	umber: 80	3 Ty	pe: R	A	rea:	3670).00 SqFt	PCI: 8	5	
Sample Co	omments:									
52 RA	VELING		L	73.00	SqFt					
48 L&	& T CR		L	55.00	-					
57 WI	EATHERING	ĩ	L	3597.00	SqFt					

Network:	BCT				Nam	ne: BO	CA RATO	AIRP	ORT		
Branch:	TW P5		Name:	TAXIW	VAY P	5	Use	TA	XIWAY	Area:	4,056 SqFt
Section:	230	0	f 1	From: -					То: -		Last Const.: 1/1/2010
Surface:	AAC	Family:	FDOT-SAPM AAC	IP-RL-TW-	Zon	e:			Category:		Rank: P
Area:		4,056 SqFt	Length	:	60 F	ťt	Width:		55 Ft		
Slabs:		Slab Lei	ngth:	Ft		Slab Width:			Ft	Joint Length:	Ft
Shoulder:		Street T	ype:			Grade: 0	1			Lanes: 0	
Section Co	omments:										
Work Dat	te: 1/1/1984	W	ork Type: BU	ILT				Code:	IMPORTED	Is Major	M&R: True
Work Dat	te: 1/1/2010	W	ork Type: MII	LL and OVER	RLAY			Code:	ML-OV	Is Major	M&R: True
Last Insp.	Date: 5/16	5/2019	Total	Samples: 1			Surve	yed: 1	l		
Condition	s: PCI:	88									
Inspectior	n Comments	:									
Sample N	umber: 802	2 Ty	pe: R	Α	rea:	405	6.00 SqFt		PCI: 88		
Sample C	omments:										
57 WI	EATHERING	Ĵ	L	3975.00	SqFt						
52 RA	VELING		L	81.00	-						
48 L&	& T CR		L	4.00	Ft						

Network:	BCT			I	Name:	BOCA RATON	AIRPORT		
Branch:	TW P7		Name:	TAXIWA	Y P7	Use:	TAXIWAY	Area:	4,924 SqFt
Section:	221	0	f 1 F	rom: -			То: -		Last Const.: 2/24/2018
Surface:	AC	Family:	FDOT-SAPMP AAC	-RL-TW-	Zone:		Category:		Rank: P
Area:		4,924 SqFt	Length:	4	55 Ft	Width:	50 Ft		
Slabs:		Slab Ler	ngth:	Ft	Slab Wid	th:	Ft	Joint Length:	Ft
Shoulder:		Street T	ype:		Grade:	0		Lanes: 0	
Section Cor	nments:								
Work Date:	: 1/1/1996	W	ork Type: BUIL	Т		С	ode: IMPORTED	Is Major 1	M&R: True
Work Date:	: 1/1/2010	w	ork Type: MILL	and OVERLA	Υ	С	ode: ML-OV	Is Major 1	M&R: True
Work Date:	: 2/24/2018	3 W	ork Type: Comp	lete Reconstru	ction - AC	С	ode: CR-AC	Is Major 1	M&R: True
Last Insp. I	Date: 10/1	/2014	TotalSa	mples: 1		Surveye	ed: 1		
Conditions:	PCI:	93		NOTE	: *** Pre-Con	struction PCI **	**		
Inspection (Comments:								
Sample Nu	mber: 100) Ty	pe: R	Area	:	3548.00 SqFt	PCI: 93		
Sample Cor	mments:								
	/ELING		L	4.00 Sq					
57 WEA	ATHERING	I	L	3544.00 Sq	rι				

Network:	BCT				Name	: BOG	CA RATON	AIRPORT				
Branch:	TW P8		Name:	TAXIW	AY P8		Use:	TAXIWAY	Area:	3,165 SqFt		
Section:	260	0	f 1	From: -				To: -		Last Const.: 1/1/2010		
Surface:	AAC	Family:	FDOT-SAPM AAC	P-RL-TW-	Zone:			Category:		Rank: P		
Area:		3,165 SqFt	Length:		60 Ft		Width:	40 F	't			
Slabs:		Slab Ler	ngth:	Ft	S	Slab Width:		Ft	Joint	t Length: Ft		
Shoulder:		Street T	ype:	G		Grade: 0			Lane	es: 0		
Section Co	omments:											
Work Date: 1/1/1998 Work Type: New Construction					n - Initia	nitial Code: NU-IN				Is Major M&R: True		
Work Date: 1/1/2010 Work Type: MILL and OVERI					LAY		(Code: ML-OV	Ι	Is Major M&R: True		
Last Insp.	Date: 5/16	5/2019	Totals	Samples: 1			Survey	ed: 1				
Condition	s: PCI:	84										
Inspectior	n Comments:	:										
Sample N	umber: 800	6 Ty	pe: R	A	rea:	3165	5.00 SqFt	PCI:	84			
Sample C	omments:											
52 RA	VELING		М	5.00	SqFt							
	VELING		L	158.00	SqFt							
48 L&	& T CR		L	49.00	Ft							

Network:	BCT				Nam	e: BOG	CA RATON	AIRPORT				
Branch:	TW P9		Name:	TAXIW	VAY P9	I	Use:	TAXIWAY	Area:	4,073 SqFt		
Section:	240	C	of 1	From: -				To: -		Last Const.: 1/1/2010		
Surface:	AAC	Family:	FDOT-SAPM AAC	P-RL-TW-	Zone	:		Category:	:	Rank: P		
Area:		4,073 SqFt	Length:		60 Ft		Width:	56 1	Ft			
Slabs:		Slab Lei	ngth:	Ft		Slab Width:		Ft	Join	t Length: Ft		
Shoulder:		Street T	ype:			Grade: 0			Lan	es: 0		
Section C	omments:											
Work Date: 1/1/2002 Work Type: New Construction					n - AC	C Code: NC-AC				Is Major M&R: True		
Work Date: 1/1/2010 Work Type: MILL and OVERI				RLAY		Code: ML-OV			Is Major M&R: True			
Last Insp.	Date: 5/16	5/2019	Total	Samples: 1			Survey	ed: 1				
Condition	s: PCI:	85										
Inspection	n Comments	:										
Sample N	umber: 804	4 Ty	pe: R	Α	rea:	4073	3.00 SqFt	PCI:	85			
Sample C	omments:						-					
48 La	& T CR		L	64.00	Ft							
	VELING		L	81.00								
57 W	EATHERING	ĩ	L	3992.00	SqFt							