FLORIDA DEPARTMENT OF TRANSPORTATION
AVIATION AND SPACEPORT OFFICE

WILLISTON MUNICIPAL AIRPORT (X60)

DISTRICT 2

GENERAL AVIATION

JUNE 2015

STATEWIDE Airfield Pavement Management PROGRAM

FDOT

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
FLP
Office of Freight, Logistics and Passenger Operations

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EXECUTIVE SUMMARY

In 2012, the Florida Department of Transportation (FDOT) Central Aviation Office selected a team lead by Kimley-Horn and Associates, Inc. and including their subconsultants Penuel Consulting and LLC, Roy D. McQueen & Associates, LTD, to provide services in support of FDOT in the continued efforts of updating the existing Statewide Airfield Pavement Management Program (SAPMP). This work is to be completed over the fiscal years of 2013 through 2015.

The tasks required to achieve this objective at each participating airport specifically included the following:

- Obtain recent construction history from the airport to update the Pavement Network Definition Exhibits using CADD from the previous SAPMP update.
- Update the airport pavement inventory data (construction history, geometry, identification, and classification) based on airport provided information.
- Update the FDOT SAPMP MicroPAVER database files and system tables for the purpose of analyzing field data for Pavement Condition Index (PCI) calculation of current pavement condition
- Development of pavement performance models for the approximation of future pavement performance.
- Development of a maintenance and repair plan, and a 10-year major rehabilitation program to address the pavement needs based on condition.
- Development of planning level opinions of probable costs for pavement preservation and rehabilitation.

In January 2015, a PCI survey inspection was performed at Williston Municipal Airport. The results of the inspection indicate that, based on ASTM D 5340-12, the airport's airfield pavement facilities had an overall area-weighted average PCI of 80, representing a Satisfactory overall network condition. Table I summarizes the overall condition summary by network level branch in comparison to the FDOT recommended minimum service level and action recommendations for either major rehabilitation or maintenance level activities.

Table I: Condition Summary by Branch

Branch Name	Area Weighted PCI	PCI Range	Average Condition Rating	FDOT Minimum Service Level	MicroPAVER Minimum PCI	Action Required
APRON	84	69 - 100	SATISFACTORY	60	65	
HANGAR APRON	85	85	SATISFACTORY	60	65	
RUN-UP APRON	100	100	GOOD	60	65	
APRON AT T-HANGARS	68	29 - 81	FAIR	60	65	X
RUNWAY 14-32	92	41 - 100	GOOD	75	65	X
RUNWAY 5-23	64	50 - 92	FAIR	75	65	X
TAXIWAY ALPHA	100	100	GOOD	65	65	
TAXIWAY A1	100	100	GOOD	65	65	
TAXIWAY BRAVO	88	88	GOOD	65	65	
TAXIWAY CHARLOE	81	77 - 88	SATISFACTORY	65	65	
TAXIWAY DELTA	88	88	GOOD	65	65	
TAXIWAY D-1	92	92	GOOD	65	65	
TAXIWAY ECHO	90	90	GOOD	65	65	
TAXIWAY FOXTROT	29	10 - 100	VERY POOR	65	65	X
TAXIWAY GOLF	10	10	FAILED	65	65	X

"Action Required" in Table I is triggered when a section within the identified Branch Facility falls below the FDOT Minimum Service Level. Year 1 Major Rehabilitation needs are triggered in Table III when a section in the identified Branch falls below the MicroPAVER Minimum PCI. Major Rehabilitation is also triggered in Table III when the section PCI is above critical and the section exhibits significant structural related distresses.

For project level planning and inspection development; the airfield pavement facilities have been divided at the branch level based on facility use and designation, and at the section level based on pavement construction history, composition (e.g. asphalt versus concrete), aircraft traffic operations, and pavement surface conditions. Table II provides the overall area weighted condition of the pavement based on facility branch use.

Table II: Condition Summary by Pavement Facility Use

Use	Average Area-Weighted PCI	Condition Rating
Runway	90	SATISFACTORY
Taxiway	77	SATISFACTORY
Apron	83	SATISFACTORY

Based on the inspection performed at the airport for this SAPMP update; the current conditions were determined using the collected PCI distress data. PCI values were computed and used to identify pavement facilities that were below the defined critical PCI as sections that would benefit from immediate major rehabilitation activity. These pavement sections that were determined to be below the critical PCI would most likely benefit from long-term major rehabilitative construction activity rather than localized, short-term maintenance and repairs.

The Year-1 Major Rehabilitation Needs, or projects that are recommended to be completed because the pavement is below the critical PCI, were developed on the assumption that there is an unlimited repair budget. These projects include:

- Runway 14-32 – Sections 6205 and 6235
  - PCC Restoration attributed to structural, climate/age, and construction quality.
- Runway 5-23 – Section 6112
  - Mill and Overlay attributed to climate/age.
- T-Hangar Apron – Sections 4315 and 4316
  - Reconstruction and Mill and Overlay attributed to climate/age and construction quality.
- Taxiway F – Section 555
  - PCC Restoration attributed to climate/age, structural, and construction quality.
- Taxiway F – Section 550
  - Reconstruction attributed to climate/age, structural, and construction quality.
- Taxiway G – Section 450
  - Reconstruction attributed to climate/age.

The section level projects that were identified as Year-1 Major Rehabilitation Needs are in Table III.

Table III: Year-1 Major Rehabilitation Needs for Williston Municipal Airport

Branch ID	Section ID	Major Rehabilitation Costs	PCI Before M&R	Rehabilitation Activity	PCI After M&R
RW 14-32	6235	$ 247,690.00	57	PCC Restoration	100
RW 14-32	6205	$ 370,305.00	40	PCC Restoration	100
RW 5-23	6112	$ 153,675.00	50	Mill and Overlay	100
AP T-HANG	4316	$ 43,005.00	29	Reconstruction	100
AP T-HANG	4315	$ 39,000.00	55	Mill and Overlay	100
TW F	555	$ 152,775.00	43	PCC Restoration	100
TW F	550	$ 1,932,555.00	10	Reconstruction	100
TW G	450	$ 1,417,095.00	10	Reconstruction	100
	Total =	$ 4,356,100.00			

The SAPMP uses historic pavement condition data from the previous inspections to develop pavement performance models. These pavement performance models are used to create PCI prediction curves to estimate future pavement conditions based on the historic trends. The section areas, prediction curves, and current condition data were used to develop a 10-year major rehabilitation program. Major rehabilitation costs for each year of the 10-year program are based on general unit costs for pavement repairs and not detailed cost estimates that are typically prepared for a construction set of bid documents. Additionally, preventative maintenance level repair budgets were estimated for a 10-year duration. Table IV provides an annual summary of the 10-year Preventative Maintenance and Major Rehabilitation planning level cost opinions for the airfield pavement facilities at the airport. Refer to Section 6 of this report for additional information.

Since the previous update performed in 2012, significant updates to the ASTM D 5340 Standard Test Method for Airport Pavement Condition Index Surveys have affected the analysis of the program. These include the separation of Weathering and Raveling into two distinct flexible pavement distresses, and the addition of the Alkali-Silica Reaction distress for rigid pavement distresses. Additionally, the deterioration associated with the rigid pavement distress Scaling/Map Cracking has been modified. The change in distress classification, as described in ASTM D 5340-12, may result in small variances in the PCI values from the previous inspection analysis. The update included changes in distress deduction values

that may be less than the previous analysis. Please refer to Section 3 Airfield Pavement Condition Index for additional information.

Additionally, pavement repair and rehabilitation work reported by the airports are entered into the SAPMP which can improve PCI values.

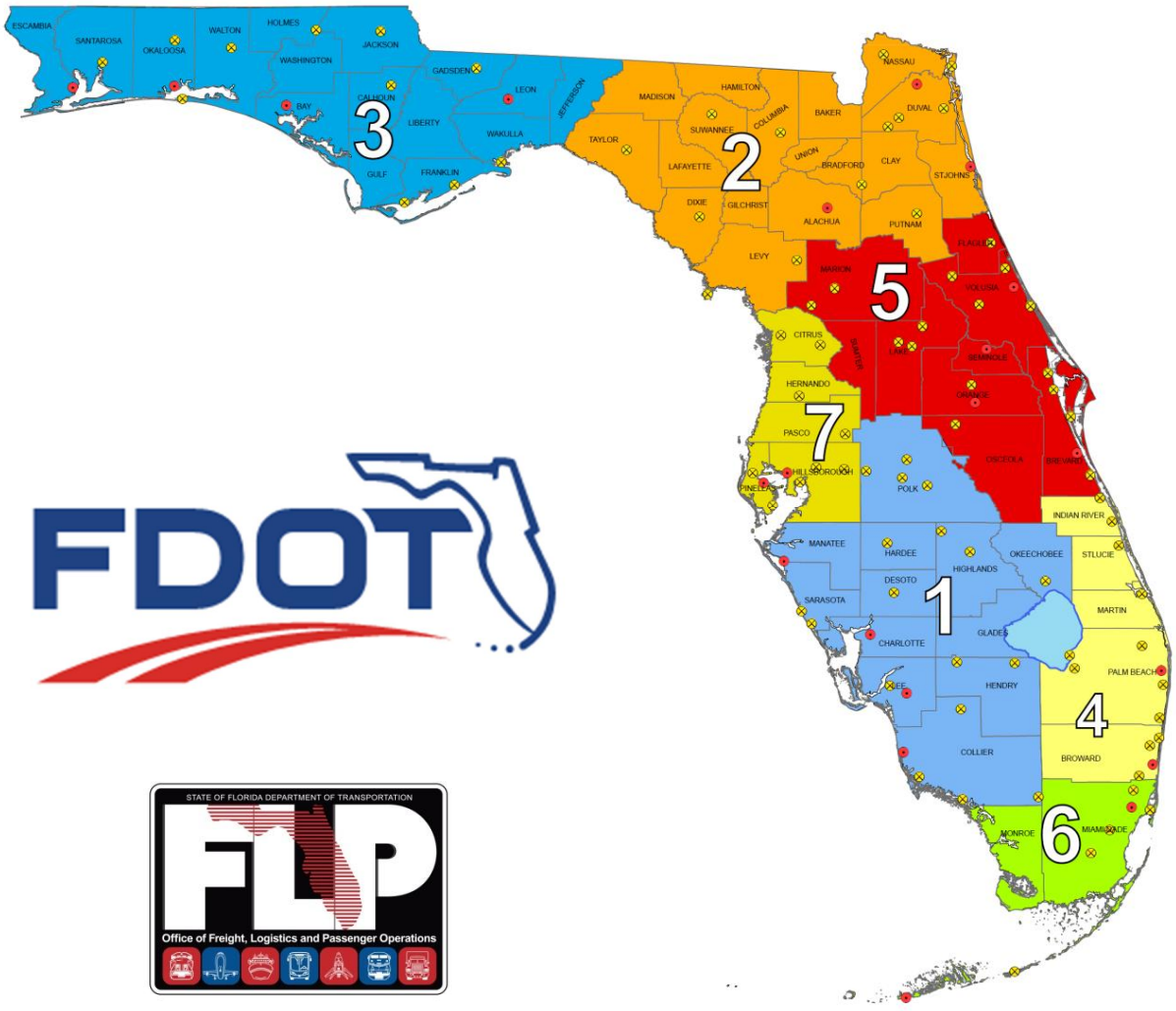
Table IV: 10-Year Preventative Maintenance and Major Rehabilitation

Year	Preventative	Major M&R	Total Year Cost
2015	$ 88,903.24	$ 4,356,100.93	$ 4,445,004.17
2016	$ 115,882.50	$ -	$ 115,882.50
2017	$ 162,378.38	$ 231,233.75	$ 393,612.14
2018	$ 179,139.03	$ 1,161,033.31	$ 1,340,172.34
2019	$ 260,065.42	$ -	$ 260,065.42
2020	$ 356,852.68	$ -	$ 356,852.68
2021	$ 448,538.56	$ -	$ 448,538.56
2022	$ 534,891.23	$ -	$ 534,891.23
2023	$ 612,102.18	$ -	$ 612,102.18
2024	$ 676,235.38	$ -	$ 676,235.38
Total	$ 3,434,988.60	$ 5,748,367.99	$ 9,183,356.60

The success of the repair program for your airport depends on the timely implementation of preservation, localized maintenance and repairs, and major rehabilitation work activities. If work is completed as scheduled, your airport should experience an improvement to the overall area-weighted average PCI. Though this analysis was performed with the assumption of an "unlimited budget", the purpose has been to identify specific projects over the course of 10-years for each pavement section where the condition is projected to fall below the critical PCI. The costs depicted in this study are intended to aid the airports in planning level budgets. Prior to construction work, it is recommended that the airport perform additional investigation at the design level to better estimate costs associated with the maintenance, repair, and major rehabilitation activity discussed.

1. INTRODUCTION

The State of Florida has more than 100 public airports that are vital to the Florida economy as well as the economy of the United States. The aviation system in Florida allows the State to capitalize on an increasingly global marketplace. Florida's system of commercial service and general aviation 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.

The Florida Department of Transportation (FDOT) Central Aviation and Spaceport Office implemented the Statewide Airfield Pavement Management Program (SAPMP) in 1992. In 2012, the FDOT Central Aviation and Spaceport Office selected a team led by Kimley-Horn and Associates, Inc. and including Penuel Consulting, LLC and Roy D. McQueen & Associates, LTD, to provide services in support of the Central Aviation and Spaceport Office Program Manager. The continued evaluation and update of the existing SAPMP is to be completed over fiscal years 2013 through 2015.

This 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 planning associated with the SAPMP 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.

1.1 Purpose of Pavement Evaluation Report

The purpose of this Airfield Pavement Evaluation Report is to:

- Briefly describe the SAPMP goals, procedures, and responsibilities of the program's participants.
- Provide a technical explanation on pavement management principles, standard practices, objectives, and benefits of implementation.
- Outline procedures used to coordinate, collect, evaluate and report pavement inspection results at this airport.
- Analyze and utilize condition results for the development of maintenance, repair, and major rehabilitation based on pavement performance trends.

1.2 FDOT Statewide Airfield Pavement Management Program

In 1992, the FDOT implemented the SAPMP to improve the knowledge of pavement conditions at public airports in the Florida Airports System, identify maintenance and rehabilitation needs at each airport, automate pavement infrastructure information management, and establish standards to address future 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 (M&R) policies, M&R budget costs, and the development of recommendations for performing routine pavement preservation 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 update included the review of the AIRPAV software compared to other industry available non-proprietary software packages. As a result of this review, MicroPAVER was selected for implementation of the system update. MicroPAVER was developed by the U.S. Army Corps of Engineers Construction Engineering Research Laboratory for the purpose of 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 facility, classification, type, history, geometry, 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 2006-2008, 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 2010-2012, the SAPMP was updated using new GPS integrated technology to digitally collect pavement distress data. Interactive GIS map files were developed from updated Airfield Pavement Network Definition Maps 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.

Currently, airports participating in the Airport Improvement Program (AIP) Grant Program are required by the Federal Aviation Administration (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*). This program requires detailed inspection of airfield pavement conditions by trained personnel. The inspections are required to be performed at least once a year or every three years, if the pavement is inspected in accordance to the PCI survey procedure (such as ASTM International D 5340 *Standard Test Method for Airport Pavement Condition Index Surveys*). The previous 2010-2012 SAPMP update utilized the ASTM D 5340-04 released in 2004, in lieu of the 2010/2011 edition, in order to maintain consistent database integrity and benefit of pavement performance models from previous inspections.

1.3 Organization

FDOT Central Aviation Office Program Manager

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

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

Consultant

The Consultant, Kimley-Horn and Associates, Inc. and their team consisting of Penuel Consulting, LLC and Roy D. McQueen & Associates, LTD, provides technical and administrative assistance to the ASO-PM during the execution of the update to the SAPMP. The efforts include updating the airport pavement inventory data, performing the condition survey inspections, evaluating the airfield pavement conditions and updating the SAPMP based upon procedures outlined in the FAA Advisory Circular 150/5380-6C *Guidelines and Procedures for Maintenance of Airport Pavements* and ASTM D 5340.

Airport Role

The airports are the ultimate beneficiary for each condition survey inspection performed at their respective airfields as part of the SAPMP. The individual airports will be provided final deliverables prepared by the Consultant that have been reviewed and approved by the ASO-PM. The airport should have provided a

current Airport Layout Plan (ALP) to the Consultant and, if they participated in the previous SAPMP, indicate any construction activity that was performed since the previous inspections.

FDOT District Offices

The seven FDOT District Offices, specifically the Aviation Representatives, provide vital support to the SAPMP update and the ASO-PM. Each District supports the SAPMP's on-going efforts by providing representative construction trend costs and practices through the Florida Airports System. Each District Office receives copies of individual Airfield Pavement Evaluation Reports for the airport facilities located within their respective districts.

1.4 Introduction to Pavement Types and Pavement Management

Pavement Basics

A pavement is a prepared surface designed to provide a continuous smooth ride at all taxi, takeoff, and landing speeds and to support an estimated amount of traffic loading for a certain number of years. Pavements are composed of a combination of constructed layers of subgrade soils, subbases, base course material, and surface level courses. There are two primary types of pavements:

- Flexible Pavement, composed of bituminous asphalt concrete (AC) surface, base, and subbase layers.
- Rigid Pavement, composed of Portland Cement Concrete (PCC) surface, base, and subbase layers.

Both pavement types use a combination of layered materials and thicknesses in order to support the traffic loads (both magnitude and repeated application) and protect the underlying subgrade soil. Flexible pavements dissipate applied loads from layer to layer until the load magnitude is small enough to be supported by the subgrade soil. In rigid pavements, the PCC layer supports the majority of the structural load applied, and the base or subbase layer is constructed to provide a smooth, level, and continuous platform that provides uniform support for PCC slabs.

A small percentage of airfield pavements within the Florida Airports System are composed of hybrid 'composite pavement' sections that may include both AC pavement and PCC pavement. The two known composite pavements are AC surface over PCC (APC) and PCC over AC (White Topping).

Due to the different nature of the pavement types, construction, and their materials; flexible and rigid pavements have different modes of failure and

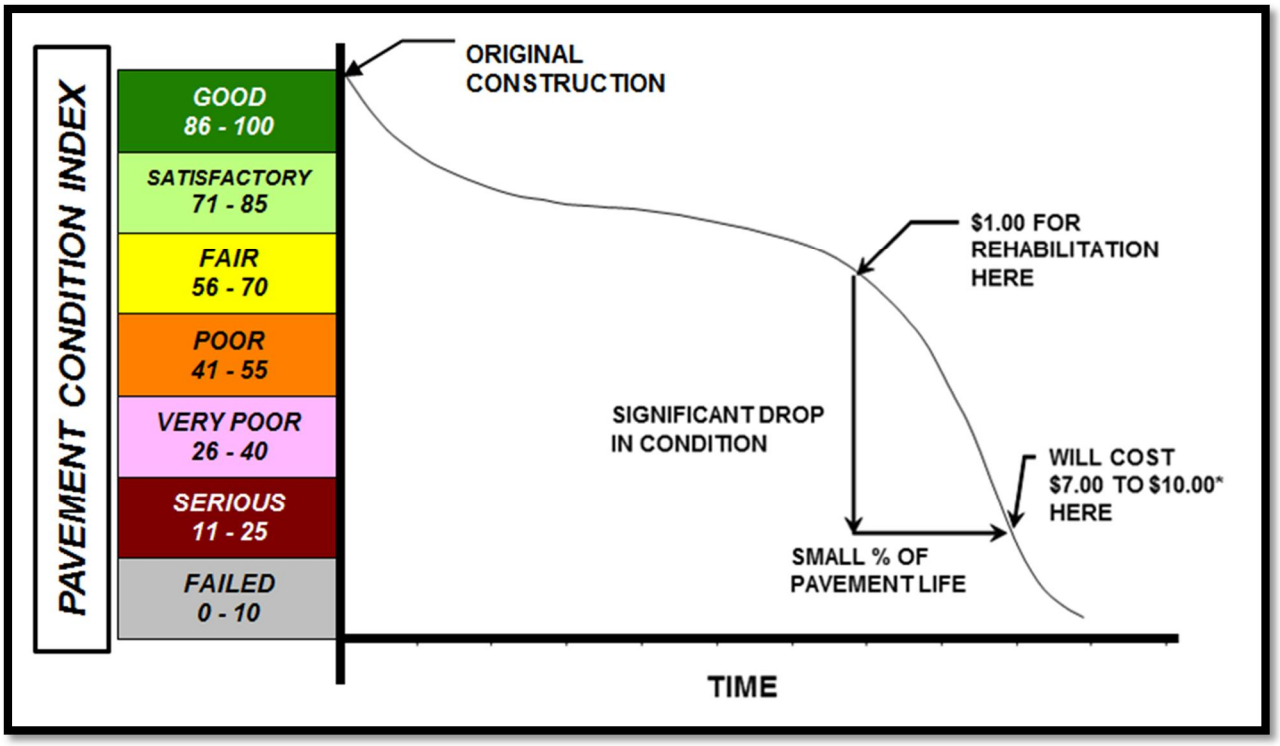
fatigue. This results in varying deterioration and distress development. Understanding the mechanics and modes of failure of the pavement types assists the engineers in making timely, adequate and consistent observations, and in recommending economical maintenance repairs and major rehabilitation to the pavement structures at each airfield.

The Concept of an Airfield Pavement Management System

The SAPMP is a program that provides the Florida Airports System an opportunity to implement and/or maintain a proactive Airfield Pavement Management System (APMS) in a consistent manner at a regular schedule. The SAPMP Airfield Pavement Management System consists of pavement inventory, pavement construction and history, condition survey inspections, pavement performance modeling, maintenance recommendations, and major rehabilitation planning. The various elements of the APMS are used by experienced engineers to identify critical pavements, make pavement preservation or rehabilitation recommendations, and approximate pavement performance. The APMS as a whole is used by an airport's stakeholders, managing agencies, engineers, and planners as a tool in decision making for future project planning, budgeting, and scheduling of activities for its airfield pavement infrastructure.

A benefit of an active APMS is it provides an understanding of an airport's pavement performance trends for the purpose of project planning. Based on the performance trend of their pavements, an airport can schedule pavement maintenance and rehabilitation prior to when the pavement section has deteriorated to a condition that would require reconstruction. The use of pavement performance trends will help airports plan M&R and Rehabilitation projects in a manner and sequence that maximizes benefit and minimizes costs. Figure 1-1, which is based upon the FAA Advisory Circular 150 5380-7B *Airport Pavement Management Program*, illustrates how pavement generally deteriorates over time and the relative cost of rehabilitation and reconstruction throughout its life.

Figure 1-1: Pavement Life Cycle



Source: FAA Advisory Circular 150 5380-7B Airport Pavement Management Program

Note that during approximately the first 75% of a pavement's life, it performs relatively well. After that, however, it begins to deteriorate rapidly. The number of years a pavement stays in 'Good' and 'Satisfactory' conditions depends on how well it is proactively maintained. As the Figure 1-1 demonstrates, the cost of maintaining the pavement above critical condition before rapid deterioration occurs is much less compared to maintaining pavements after substantial deterioration has occurred.

Pavements tend to deteriorate at an accelerated rate when actual traffic loading exceeds the original design assumptions and when limited resources are available for maintenance and repair (M&R) efforts. Planned maintenance and rehabilitation, essentially preserving pavements and delaying condition deterioration, help airport managers, agencies, and engineers maximize the use of their budgets and prolong the life of their pavements. An APMS provides a tool to schedule planned maintenance and major rehabilitation efforts based on a consistent methodology of condition assessment. This consistent methodology of pavement condition assessment allows for the development of pavement performance models to help forecast future pavement conditions.

Part of the implementation of the APMS is the clear identification and inventorying of pavement infrastructure that needs to be managed specifically within the airport owner, manager, and agency responsibility. Another aspect of the APMS is development of maintenance, repair, and major rehabilitation policies that align with the expectations of pavement performance and are based on ability to fund the types of work identified. Once there is an understanding of the cause and extent of pavement distresses, appropriate maintenance and rehabilitation can be planned. By using representative construction costs based on historic bid trends; planning level budget costs can be developed on a multiyear duration.

Airfield Pavement Inspection Methodology for the SAPMP

Pavement condition assessment requires the application of professional judgments regarding the condition of the pavement. The SAPMP airfield pavement condition survey inspections assess pavement, comparing it to a set of standards in ASTM D 5340-12. As part of this update, SAPMP has adopted the changes made in updates to ASTM D 5340-12. These include the separation of Weathering and Raveling into two distinct flexible pavement distresses, and the addition of the Alkali-Silica Reaction distress for rigid pavement distresses. Additionally, the deterioration associated with the rigid pavement distress Scaling/Map Cracking has been modified which results in moving Map Cracking from Scaling to ASR. In the newest version of ASTM D 5340-12, there are two kinds of Shrinkage Cracking, Drying Shrinkage and Plastic Shrinkage. The difference between these two is that the depth of first one may extend through the entire depth of the slab while the thickness of the latter one normally does not extend very deep into the pavement's surface. Furthermore, the Plastic Shrinkage consists of two subcategories: Plastic shrinkage (caused by atmosphere) and Plastic shrinkage (caused by construction). Another kind of Map Cracking is listed under Plastic shrinkage that is caused by construction, as well as Crazing. This additional type of Shrinkage change in distress classification, as described in ASTM D 5340-12, may result in small variances in the PCI values from the previous inspection analysis.

The pavement condition surveys assess the functional condition of the pavement surface based on surface distresses as defined by the ASTM D 5340-12. Typically, deficiencies within a pavement structure will eventually reflect to the pavement surface as distresses described within ASTM D 5340-12. The SAPMP is specifically a visual evaluation and analysis based on the ASTM D 5340-12. The structural condition and relative support of the pavement layers can be directly quantified

using non-destructive deflection testing (NDT) as well as other in-depth engineering evaluation or sampling and testing methods.

For the SAPMP update, only visual surveys were performed. Further structural and geotechnical testing should be conducted to determine design level rehabilitation and/or reconstruction needs should the airport proceed to the design process.

In preparation for the PCI survey inspections, the airfield pavements for each airport are divided into branches, sections, and sample units as established by FAA Advisory Circular 150/5380-6C and ASTM D 5340. Further discussion of the process of inventorying and categorizing pavement facilities by use, composition, and history can be found in SECTION 2 *AIRFIELD PAVEMENT NETWORK DEFINITION and PAVEMENT INVENTORY.*

Sample units are uniformly divided areas of pavement that are defined for inspection. Sample unit sizes are approximately 5,000 ± 2,000 square feet for flexible AC pavements and 20 ± 8 slabs for rigid PCC pavements. Prior to conducting the field condition survey inspections, the sampling plan was developed for the airfield pavements based on updates to the previous inspection sampling based on the available knowledge of construction updates. The sample rate adopted for the SAPMP is depicted on Table 1-1.

Table 1-1: Sampling Rate Schedule for SAPMP PCI Survey Inspections

Flexible Pavements Asphalt Concrete		
Number of Sample Units in Section	Number of Sample Units to Inspect	
	Runway	*Taxiways, Aprons, 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	20% but ≤ 20	10% but ≤ 10

Rigid Pavements Portland Cement Concrete		
Number of Sample Units in Section	Number of Sample Units to Inspect	
	Runway	*Taxiways, Aprons, 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	20% but ≤ 20	10% but ≤ 10

The sample units to be inspected were determined through a systematic random sampling technique to provide an unbiased representation of sample units for each pavement facility. The sample unit locations had been determined in such a way that they are distributed evenly throughout each defined pavement section area. In certain cases when no representative distresses are observed in the field, additional sample units were added.

The distress quantities and severity levels from each inspected sample unit are used to compute the PCI value and rating for each Section using the ASTM D 5340-12 and MicroPAVER (also known currently as PAVER) software. Figures 1-2 and 1-3 depict graphical representations of the color ranges associated with PCI values and ranges with a photograph of airfield pavement that exhibited the conditions for both flexible and rigid pavements respectively.

Figure 1-2: Flexible Pavement, Asphalt Concrete

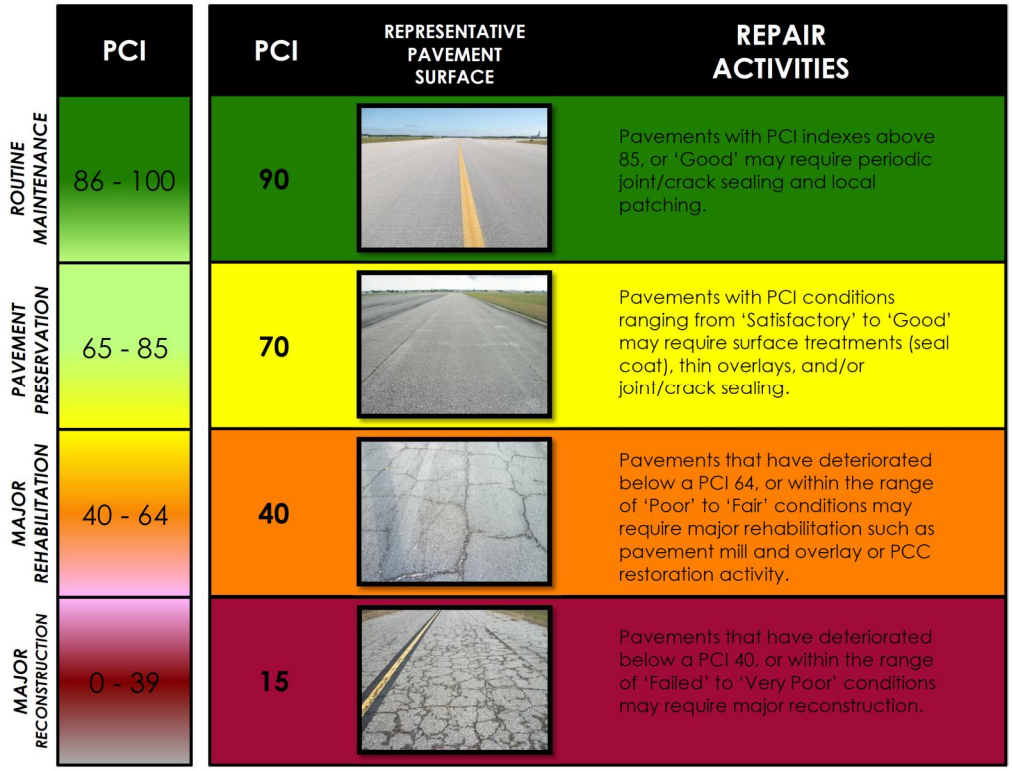
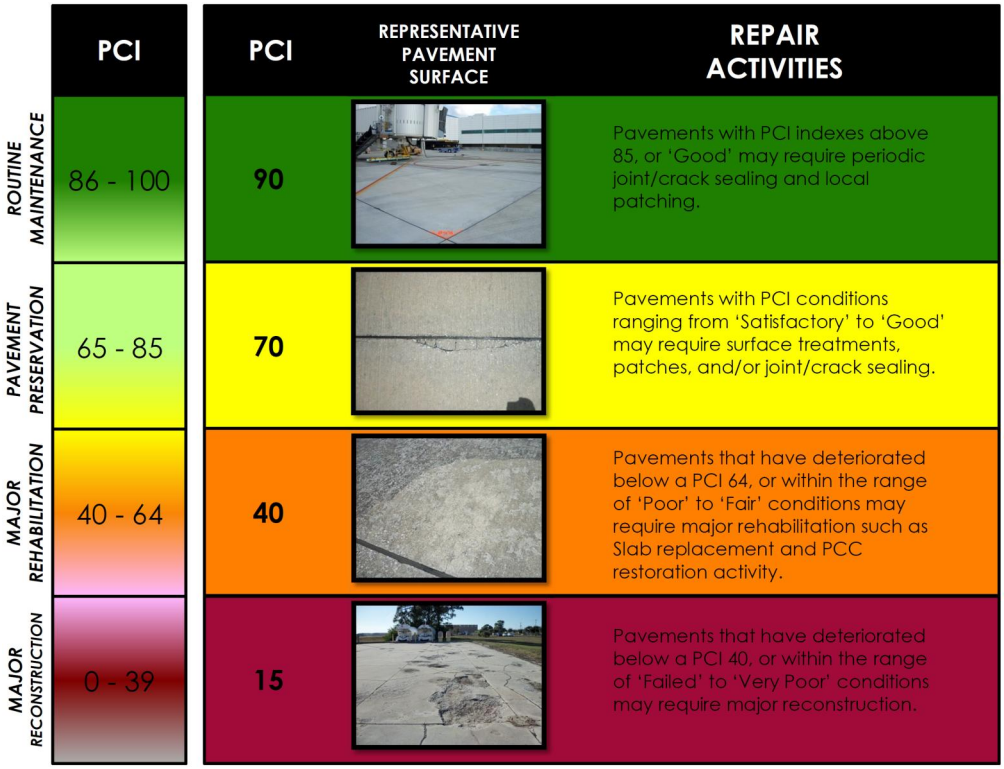


Figure 1-3: Rigid Pavement, Portland Cement Concrete



Using the ASTM D 5340-12 standard seven qualitative ranges, the SAPMP provides a PCI value and a standard qualitative condition rating for the pavement facilities inspected.

2. AIRFIELD PAVEMENT NETWORK DEFINITION AND PAVEMENT INVENTORY

Williston Municipal Airport (X60) is located approximately 2 miles southwest of Williston, Florida and serves as a basic utility airport for Levy County. The airport facility includes two intersecting runways: Runway 5-23 with a length of 6,669 ft. and a width of 100 ft. and Runway 14-32 with a length of 4,979 ft and a width of 60 ft. Runway 5-23 has a concrete surface with 92% of the surface constructed of thin whitetopping approximately 5 feet by 5 feet slab ranging from 4 to 5 inches in thickness while Runway 14-32 has an asphalt surface with Portland concrete surface at each end. The whitetopping construction was completed in 2006. This airport is designated as a General Aviation airport and is located in District 2 of the Florida Department of Transportation.

It is important to note that the aforementioned runway data in addition to the remaining airfield pavement facilities geometric attributes may vary slightly from the geometry used in the condition exhibit in Appendix B and the major rehabilitation exhibit in Appendix F based on field measurements.

The airfield was opened on January 1, 1942 as an US Army Air Forces installation and was part of the Army Air Force School of Applied Tactics. It was put on standby status and placed under the control of the 4318th Army Air Force Base Unit on May of 1944. In 1974 the airport was acquired by the City of Williston and opened for public use.

2.1 Network Definition

The airfield pavements within each airport network are separated into manageable units within the FDOT SAPMP MicroPAVER database system, organizing pavement data by similar use and constructive history.

Branch and Section Identification

Each airport's airfield pavement network is generally subdivided into separate Branches (runways, taxiways, aprons/ramps, or others) that have distinctly different functional identifications and uses. Each Branch is further subdivided into Sections as defined by pavement location, composition, and construction history. A Section is typically understood to be a project level subdivision within a Branch feature. Sections are manageable units to organize data collection and are treated individually during the maintenance and major rehabilitation planning process. A pavement rank (primary, secondary, or tertiary) is assigned to each

Section based on its importance and type of use to airport operations. The pavement rankings designated for each section at this airport were defined by the previous SAPMP, unless changes were communicated by the airport. These Sections are further subdivided into condition survey sample units based on the methodology described in ASTM D 5340.

Airfield Pavement System Inventory and Network Definition Update

The Airfield Pavement System Inventory and Airfield Pavement Network Definition Exhibits are developed individually for each participating airport. Based on information requested of and provided by the airport, the airfield pavements are evaluated on designation updates, and recent or anticipated pavement construction activity. As mentioned previously, a Section is defined partially by its construction history of which is factored in the performance and condition of the pavement section.

The Airfield Pavement System Inventory Exhibit, Figure A-2 in Appendix A, is a snapshot of recent and anticipated airfield pavement construction activity communicated by the airport since the last SAPMP update. Construction activities identified include maintenance and repair activity, major rehabilitation, and airfield pavement expansion efforts. Maintenance and repair activity may include; surface treatments, crack sealing, patching, slab replacement, and others. Both maintenance and rehabilitation activities are identified at the pavement section level. This type of work may result in an increase in overall Section PCI since the last inspection. Major rehabilitation efforts may include; asphalt milling and overlay, and full depth pavement reconstruction. This type of effort will result in a resetting of the pavement section PCI value to 100 due to the nature of the work. Lastly, airfield pavement expansions are accounted for as new inventory and assigned a section PCI of 100. Typically the new pavement sections are not inspected due to its condition; however these pavements are incorporated into the SAPMP pavement database. When possible, these changes are reflected in the Airfield Pavement Network Definition Exhibit, in Appendix A, prior to the field inspection. The updates are typically discussed and confirmed with airport personnel at the beginning and end of condition survey inspections to ensure accuracy.

The Airfield Pavement Network Definition Exhibit depicts the airport's pavement limits with Branch and Section delineations. This exhibit also includes the subdivision on Section areas into sample units and is used to identify those sample units that are to be inspected. The previous SAPMP Airfield Pavement Network Definition Exhibits were used as a base. Updates and information provided by

each airport was reviewed and the exhibits were revised appropriately. Characteristics that are considered include; airfield configuration, branch designations (magnetic declination, Airport Layout Plan updates) and pavement composition. The exhibit serves not only as a primary guide for the airfield inspectors but also allows specific distresses found in the re-inspection report to be geographically located.

Due to recent and anticipated construction efforts; pavement area sections may have been consolidated or created which will affect the total number of sample units to be inspected based upon the methods described in ASTM D 5340 and from the sampling rate schedule. Table 2-1 summarizes the recent and anticipated airfield pavement construction efforts communicated by the airport.

Table 2-1: Previous and/or Anticipated Airfield Pavement Construction

Construction Year	Section Location	Work Type/Pavement Section
2013	TAXIWAY A FROM RUNWAY 5-23 TO TAXIWAY C	MILL & OVERLAY & PARTIAL RECONST. W/4" P-401, 6" LIMEROCK BASE AND 12" STABILIZED SUBGRADE
2013	TAXIWAY A FROM TAXIWAY C TO RUNWAY 5-23	NEW CONSTRUCTION 4" P-401, 6" LIMEROCK, AND 12" SUBGRADE
2015	RUNWAY 14-32	0.5" MILL AND 2.5" P-401 OVERLAY
2015	RUNWAY 14-32, RUNWAY 5-23 INTERSECTION	COMPLETE RECONSTRUCTION, 2.5" P-401, 6" P-211, 12" P-160
2015	TAXIWAY F	NEW AC CONSTRUCTION, 2" FDOT SP-12.5, 8" LIMEROCK, 12" STABILIZED SUBGRADE
2015	CENTER APRON	NEW AC CONSTRUCTION, 4" P-401, 6" P-211, 12" P-160
2015	RUNWAY 14-32 ENDS	JOINT AND CRACK SEAL REPAIR ON EXISTING PCC

Airfield Pavement Network Definition & Geographic Information System (GIS)

As part of this SAPMP update, geographic information system (GIS), global positioning system (GPS), and digital data collection were integrated into the Pavement Inspection Methodology at each airport. Using AutoCAD Civil 3D, ArcMap, ArcPad, and FDOT Survey and Mapping Office Aerial Photography; digital navigation maps have been developed for each airport to represent the

SAPMP pavement inventory attributes. These navigation maps were used with field data tablets to assist survey teams as they performed condition inspections by navigating pavement infrastructure and collecting distress data.

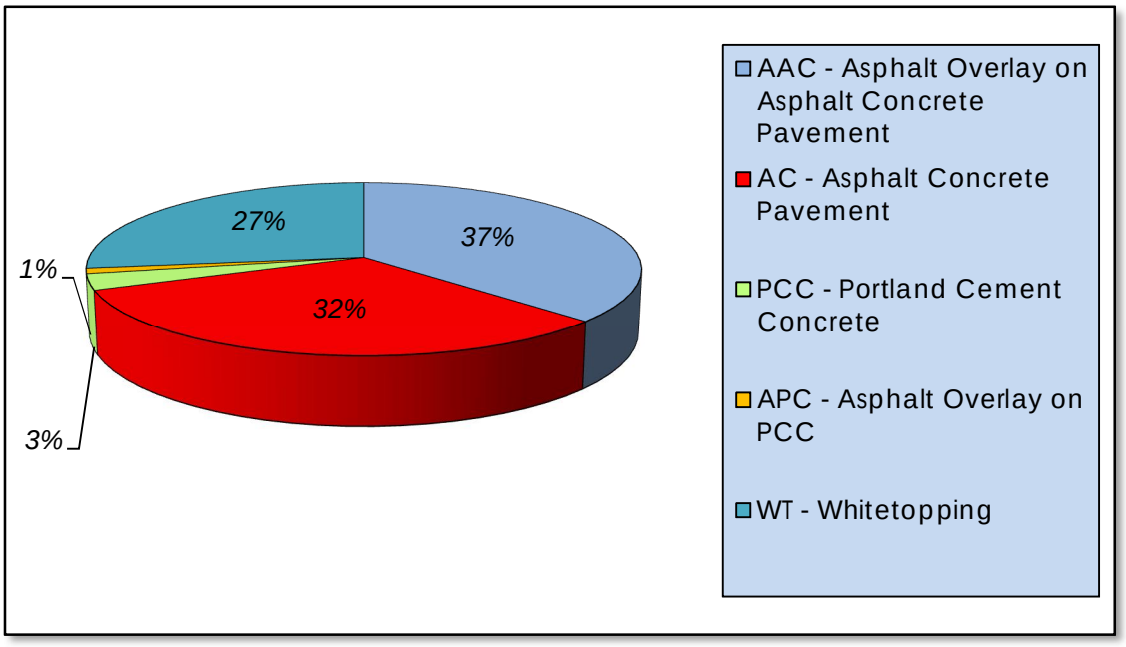
2.2 Pavement Inventory

The detailed pavement inventory database was updated to reflect the updates to the Airfield Pavement Network Definition Exhibit, in Appendix A, and field inspection results. Table 2-2 and Figure 2-1 provides a summary of the pavement inventory attributes at Williston Municipal Airport for this SAPMP update.

Table 2-2: Pavement Inventory Summary

Standard Airfield Pavement Network Definition		
Number of Branches	15	
Number of Sections	27	
Sample Units	96	
Standard Airfield Pavement Use		
Use	Area (SF)	Relative Area (%)
Runway	342,569	14%
Taxiway	1,132,534	46%
Apron	293,368	12%
Runway (Whitetopping)	670,650	27%
Total =	2,439,121	100%
Standard Airfield Pavement Type		
Type	Area (SF)	Relative Area (%)
Asphalt Concrete (AC)	768,374	32%
Asphalt Overlay (AAC)	914,024	37%
Portland Cement Concrete (PCC)	68,206	3%
Asphalt Overlay on PCC Pavement (APC)	17,867	1%
Whitetopping (WT)	*670,650*	*27%*
Total =	2,439,121	100%

Figure 2-1: Airfield Pavement Type



Specific details to each Branch and Section such as; name, geometry, age, rank, surface type, and construction history are provided in Table 2-3.

Table 2-3: Airfield Pavement Inventory Details

Branch Name	Branch ID	Section ID	True Area (SF)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
RUNWAY 14-32	RW 14-32	6250	15,631	P	AC	2/1/2015	1	4
RUNWAY 14-32	RW 14-32	6235	24,769	P	PCC	1/1/1942	2	6
RUNWAY 14-32	RW 14-32	6215	254,982	P	AAC	2/1/2015	10	43
RUNWAY 14-32	RW 14-32	6205	24,687	P	PCC	1/1/1942	2	6
RUNWAY 5-23	RW 5-23	6112	15,000	P	APC	1/1/2006	1	3
RUNWAY 5-23	RW 5-23	6110	7,500	P	PCC	1/1/1942	2	3
RUN-UP APRON	AP RU	5105	28,165	P	AC	1/1/2013	1	6
APRON AT T-HANGARS	AP T-HANG	4325	21,796	P	AC	1/1/2003	1	6
APRON AT T-HANGARS	AP T-HANG	4320	18,657	P	AC	1/1/2005	1	6
APRON AT T-HANGARS	AP T-HANG	4316	2,867	P	APC	1/1/2003	1	1
APRON AT T-HANGARS	AP T-HANG	4315	3,900	P	AC	1/1/1986	1	1

Branch Name	Branch ID	Section ID	True Area (SF)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
HANGAR APRON	AP HANG	4205	10,658	P	AAC	1/1/2009	1	2
APRON	AP	4110	101,074	P	AC	2/1/2015	3	21
APRON	AP	4105	106,251	P	AAC	1/1/2009	3	22
TAXIWAY E	TW E	705	55,768	P	AAC	1/1/2009	3	15
TAXIWAY F	TW F	565	33,640	P	AC	2/1/2015	2	9
TAXIWAY F	TW F	555	11,250	P	PCC	1/1/1942	1	3
TAXIWAY F	TW F	550	128,837	P	AC	1/1/1942	4	34
TAXIWAY D	TW D	505	70,293	P	AAC	1/1/2009	2	12
TAXIWAY G	TW G	450	94,473	P	AC	1/1/1942	3	24
TAXIWAY D-1	TW D1	405	57,110	P	AAC	1/1/2009	2	15
TAXIWAY B	TW B	305	101,923	P	AAC	1/1/2009	4	29
TAXIWAY A1	TW A1	255	34,316	P	AC	1/1/2013	1	7
TAXIWAY A	TW A	220	287,885	P	AC	1/1/2013	6	58
TAXIWAY A	TW A	205	159,607	P	AAC	1/1/2013	4	32
TAXIWAY C	TW C	115	35,409	P	AAC	1/1/2009	1	8
TAXIWAY C	TW C	105	62,023	P	AAC	1/1/2009	2	12
WHITETOPPING PAVEMENT SECTIONS								
RUNWAY 5-23	*RW 5-23*	*6127*	*40,650*	*P*	*WT*	*1/1/2005*	*4*	*8*
RUNWAY 5-23	*RW 5-23*	*6125*	*130,000*	*P*	*WT*	*1/1/2005*	*7*	*26*
RUNWAY 5-23	*RW 5-23*	*6115*	*500,000*	*P*	*WT*	*1/1/2005*	*20*	*100*

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.
** Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey. Please refer to Section 3 for discussion on the updates to the ASTM D 5640 that may affect PCI in comparison to previous program update.*

3. AIRFIELD PAVEMENT CONDITION

Airfield pavement distresses and condition were surveyed in accordance with the methods outlined in FAA Advisory Circular 150/5380-6C and ASTM D 5340-12. 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.

The program has been updated from ASTM D 5340-04, released in 2004, to ASTM D 5340-12, released in 2013, for this SAPMP update. The primary updates include the separation of certain distress types and the addition of new types with corresponding changes to PCI calculation. These changes in distress classification may result in small variances in the PCI values from the previous inspection analysis.

Below is a brief description of the changes to the distresses presented in the ASTM D 5340 methodology and a table summarizing the deduction affected.

a) Flexible Asphalt Concrete Pavement distresses for airfield pavements: 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.

b) Rigid Portland Cement Concrete Pavement distresses for airfield pavements: The previous methodology defined "(70) Scaling" as a distress that consisted of surface deterioration caused by construction defects, material defects, and environmental factors. The distress included *Alkali-Silica Reaction*, also known as ASR. The current methodology has separated Alkali-Silica Reaction as a distress identified as "(76) Alkali-Silica Reaction / ASR". As a result the previous "(70) Scaling" numerical deduction

contribution to the PCI has been reduced. Previous inspections that recorded "(70) Scaling", and currently do not exhibit "(76) Alkali-Silica Reactivity / ASR" may potentially see an increase in PCI. Additionally, (73) Shrinkage Cracks has been redefined as (73) Shrinkage Cracking. Shrinkage Cracking is characterized in two forms; drying shrinkage and plastic shrinkage. Drying shrinkage occurs over time as moisture leaves the pavement, it develops when hardened pavement continues to shrink as excess water not needed for cement hydration evaporates. It forms when subsurface resistance to the shrinkage is present and may extend through the entire depth of the slab. Plastic shrinkage develops when there is rapid loss of water in the surface of recently placed pavement or can form from over finishing/overworking of the pavement during construction. These shrinkage cracks appear as a series of inter-connected hairline cracks, or pattern cracking, and are often observed throughout the majority of the slab surface. This condition is also referred to as map cracking or crazing.

Distress Updates to Reflect ASTM 5340-12			
Use and Surface Type	Old 5340-04 Distress	New Distress	Deduct Curve
AC/AAC/APC Airfield	(52) Weathering & Raveling - Low	(52) Raveling - Low	No Change
	(52) Weathering & Raveling - Medium	(52) Raveling - Medium	No Change
	(52) Weathering & Raveling - High	(52) Raveling - High	No Change
	N/A	(57) Weathering - Low	New
	N/A	(57) Weathering - Medium	New
	N/A	(57) Weathering - High	New
PCC Airfield	(70) Scaling - Low	(70) Scaling - Low	New
	(70) Scaling - Medium	(70) Scaling - Medium	New
	(70) Scaling - High	(70) Scaling - High	New
	N/A	(76) Alkali Silica Reaction – Low	New
	N/A	(76) Alkali Silica Reaction – Medium	New
	N/A	(76) Alkali Silica Reaction – High	New

3.1 Inspection Methodology

A pavement condition survey inspection is performed by measuring the amount and severity of defined pavement distresses observed within the boundaries of sample units. These distresses, as defined by ASTM D 5340, are generally caused by traffic fatigue loading, exposure to climate and elements, and other airfield specific factors. This data is collected by field personnel experienced in pavement condition survey inspection. Data collection is then transferred into the FDOT MicroPAVER database system. MicroPAVER (also known as PAVER) is used to calculate PCI values using the methodology described in ASTM D 5340-12. The values are calculated for each sample and extrapolated on a Section level to determine an area-weighted PCI value ranging from 0 to 100 and one of seven condition ratings. Tables 3-1 and 3-2 describe the distresses as defined by the ASTM D 5340-12 and adopted for the SAPMP procedures.

Table 3-1: Airfield Pavement Distresses for Asphalt Concrete

Code	Distress	Primary Mechanisms
41	Alligator Cracking	Load / Fatigue Failure
42	Bleeding	Construction Quality/ Mix Design
43	Block Cracking	Climate / Age
44	Corrugation	Load / Construction Quality
45	Depression	Subgrade Quality
46	Jet Blast	Aircraft
47	Joint Reflection - Cracking	Climate / Prior Pavement
48	Longitudinal/Transverse Cracking	Climate / Age
49	Oil Spillage	Aircraft / Vehicle
50	Patching	Utility / Pavement Repair
51	Polished Aggregate	Repeated Traffic Loading
52	Raveling	Climate / Load
53	Rutting	Repeated Traffic Loading
54	Shoving	PCC Pavement Growth / Movement
55	Slippage Cracking	Load / Pavement Bond
56	Swelling	Climate / Subgrade Quality
57	Weathering	Climate

Source: U.S. Army CERL, FDOT Airfield Inspection Reference Manual

Table 3-2: Airfield Pavement Distresses for Portland Cement Concrete

Code	Distress	Primary Mechanisms
61	Blow-up	Climate / Alkali Silica Reaction
62	Corner Break	Load Repetition / Curling Stresses
63	Linear Cracking	Load Repetition / Curling Stresses / Shrinkage Stresses
64	Durability Cracking	Freeze-Thaw Cycling
65	Joint Seal Damage	Material Deterioration / Construction Quality
66	Small Patch	Pavement Repair
67	Large Patch/Utility Cut	Utility / Pavement Repair
68	Popout	Freeze-Thaw Cycling
69	Pumping	Load Repetition / Poor Joint Sealant
70	Scaling/Crazing	Construction Quality / Freeze-Thaw Cycling
71	Faulting	Load Repetition / Subgrade Quality
72	Shattered Slab	Overloading
73	Shrinkage Cracking	Construction Quality / Load
74	Joint Spalling	Load Repetition / Infiltration of Incompressible Material
75	Corner Spalling	Load Repetition / Infiltration of Incompressible Material
76	Alkali-Silica Reaction	Construction Quality / Climate

Source: U.S. Army CERL, FDOT Airfield Inspection Reference Manual

3.2 Airfield Pavement Condition Index Rating Results

From the condition survey inspection performed in 2015 at Williston Municipal Airport, the overall weighted average PCI value is 80 representing a condition rating of Satisfactory.

The airport's airfield pavements exhibited distresses typically associated with climate/age and construction quality based distresses. The predominant AC and AAC pavement distresses observed include: longitudinal and transverse cracking, swelling, oil spillage, bleeding, joint reflection cracking, block cracking, depression, raveling, and weathering. The predominate PCC pavement distresses observed include: joint seal damage, corner spalling, linear cracking, and scaling/crazing.

Runway 5-23 is composed of three different pavement compositions, Portland Cement Concrete, asphalt concrete over Portland Cement Concrete, and Whitetopping pavement. The PCC pavements of Runway 5-23 exhibited low severity joint seal damage, low severity corner spalling, and low severity linear cracking. The APC pavement of Runway 5-23 exhibited joint reflection cracking, longitudinal and transverse cracking, raveling, and weathering.

The airport has pavement facilities that are composed of Whitetopping pavement sections. Whitetopping is a composite pavement of Portland Cement Concrete constructed over existing asphalt concrete pavement. Whitetopping consists of three categories; Conventional (less than 6-inches), Thin (4 to 6-inches), and Ultra-thin (2 to 4-inches). The ASTM D 5340-12 method does not address the distress types that manifest in Whitetopping pavement. FDOT has developed a method that quantifies typical distresses and provides an index. Since the Whitetopping pavements are unique and not addressed by either the ASTM D 5340-12 or the FAA Advisory Circulars, for this SAPMP Program Update no predicted pavement performance or maintenance and major rehabilitation analysis has been performed for these sections.

The airport had Whitetopping pavement sections, Thin, on Runway 5-23. The Whitetopping distresses observed at this airport consist of the following; Corner Breaks, Joint Spalls, Corner Spalls, Construction Damage, Surface Chipping, Potholes, and Vegetation. These distresses are not defined in accordance with the ASTM D 5340-12.

Runway 14-32 was under construction at the time of inspection. The rehabilitation included reducing the width of the runway from 100 ft to 60 ft, and a 0.5 inch micro mill and a 2.5 inch P-401 overlay on the remaining pavement. Due to construction activity at the time of inspection the PCC ends of Runway 14-32 were not inspected due to the construction equipment and staging area. The pavement facilities were inaccessible for inspection.

Taxiway Alpha is a full length parallel taxiway servicing Runway 5-23. Taxiway Alpha was extended and widened in 2013. Existing sections received a 1.5 inch mill and overlay, and new pavement section consisting of 4 inches P-401, 6 inches of P-211, 12 inches of P-160. PCI is assumed to be 100 for these sections due to recent construction.

Taxiways Bravo, Delta, D1, and Echo are composed of asphalt concrete and exhibited longitudinal and transverse cracking, raveling, and weathering. These distresses are climate and age based distresses.

Taxiway Charlie is composed of asphalt concrete and exhibited longitudinal and transverse cracking, swelling, depression, raveling, and weathering. These distresses are typically attributed by climate and age but also construction quality issues. Swelling occurs when water within the pavement layers heats and thus expands causing the pavement to bulge upward.

Taxiway Golf is composed of asphalt concrete pavement and exhibited high to medium severity block cracking, high severity patch, and high severity raveling. These distresses are typically caused by climate and age and pavement repairs. Similarly, the asphalt concrete portions of Taxiway Foxtrot exhibited high to medium severity block cracking, and high severity raveling, but also exhibited depression and rutting. Depressions and rutting are considered structural distresses indicating a permanent deformation in any of the pavement layers or subgrade, usually caused by consolidation or lateral movement of the materials due to traffic loads. The PCC portion of Taxiway Foxtrot exhibited joint seal damage, linear cracking, and scaling/crazing. These distresses are typically associated with climate and age, construction quality, and fatigue loading.

The remaining asphalt concrete pavements exhibited longitudinal and transverse cracking, swelling, oil spillage, bleeding, joint reflection cracking, block cracking, raveling, and weathering. Swelling was observed in large quantities on the Apron. Again swelling is caused by water that is within the pavement section or subgrade that expands due to warm temperatures creating pressure. The pressure causes the pavement to bulge upward and sometimes crack.

Appendix B contains Table B-1 which summarizes the Section Condition Values and an Airfield Pavement Condition Index Rating Exhibit, Figure B-1, which depicts the PCI results by Section. Appendix C contains MicroPAVER reports of PCI results by Branch and Section. Appendix H includes the most current detailed distress data generated by MicroPAVER for each inspected sample unit for this update.

The pavement condition at Williston Municipal Airport is represented in Figure 3-1 in accordance with the condition categories and PCI scale referenced in ASTM D 5340. Further detail is provided in Table 3-3 which describes the breakdown of the airport's airfield conditions according to area and use.

Figure 3-1: Airfield Pavement Condition Index Rating Summary

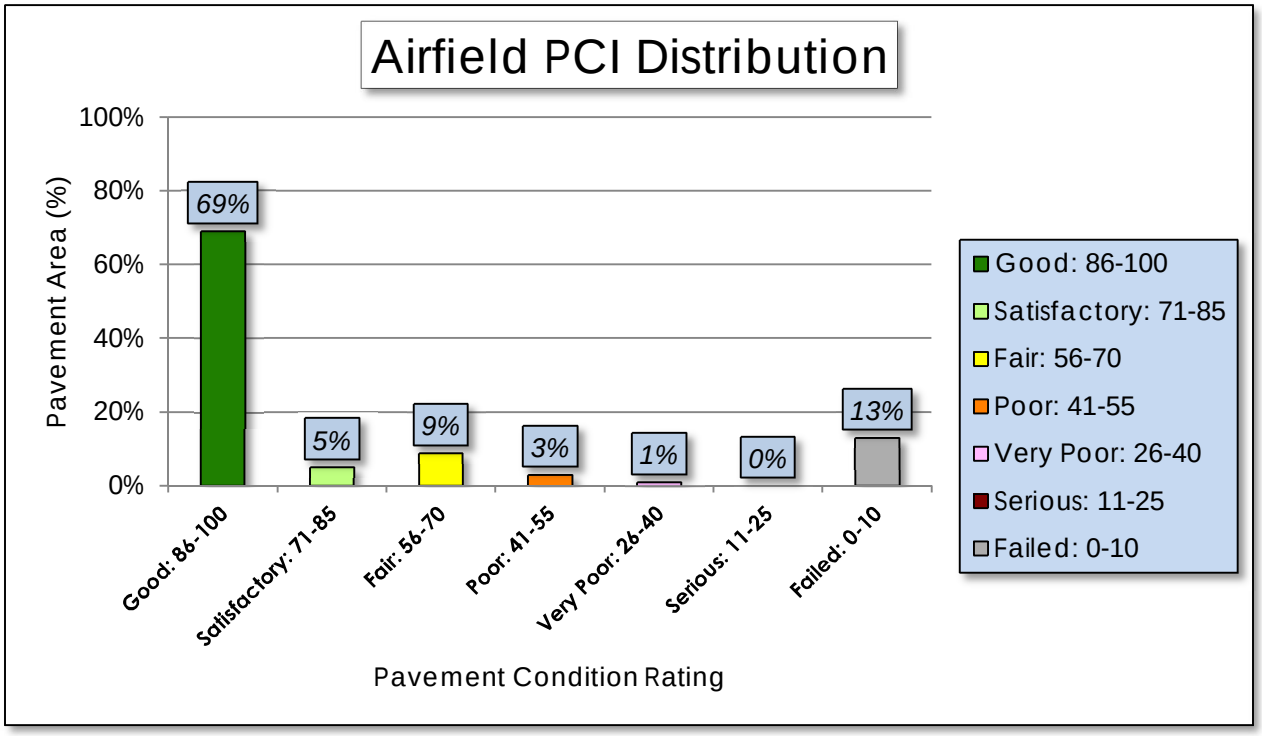


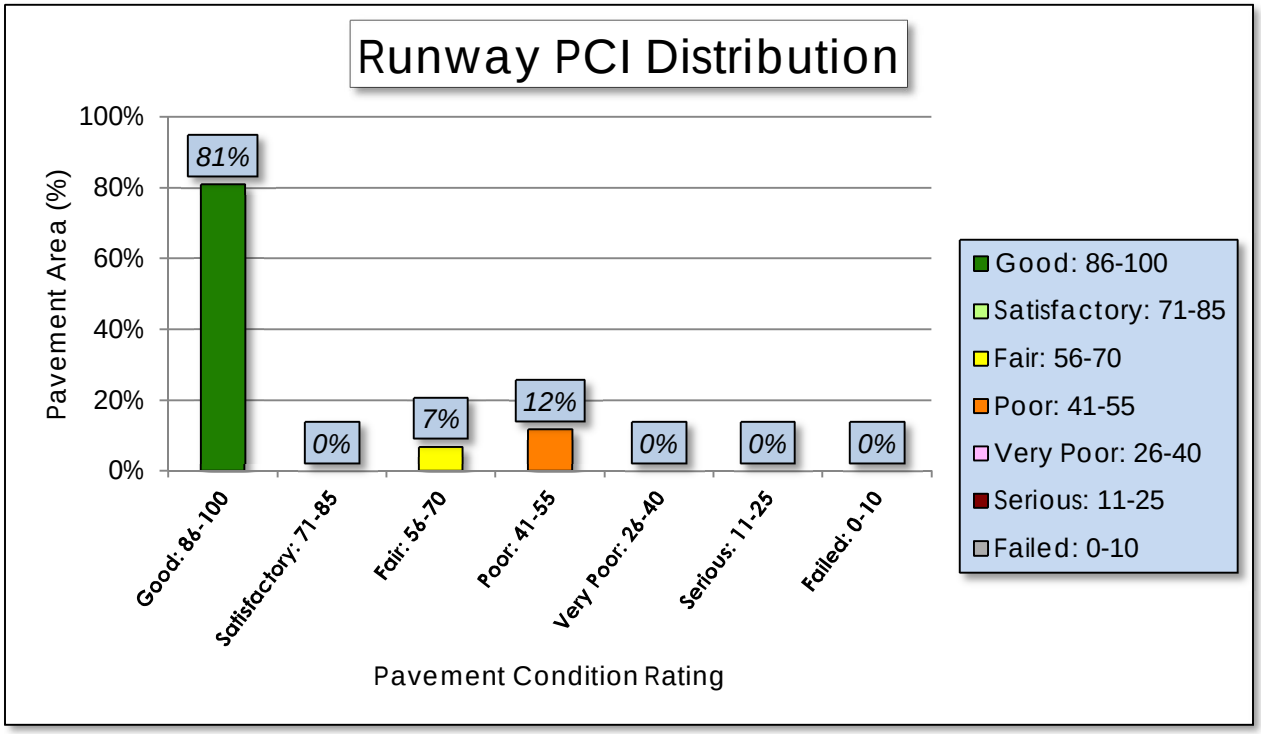
Table 3-3: Pavement Condition Index Rating Summary

Airfield Pavement Use		
Use	Average Area-Weighted PCI	Condition Rating
Runway	90	GOOD
Taxiway	77	SATISFACTORY
Apron	83	SATISFACTORY
Condition Area		
Condition Rating	Area (SF)	Relative Area (%)
Good	1,243,303	69%
Satisfactory	91,338	5%
Fair	152,816	9%
Poor	54,837	3%
Very Poor	2,867	1%
Serious	-	0%
Failed	223,310	13%

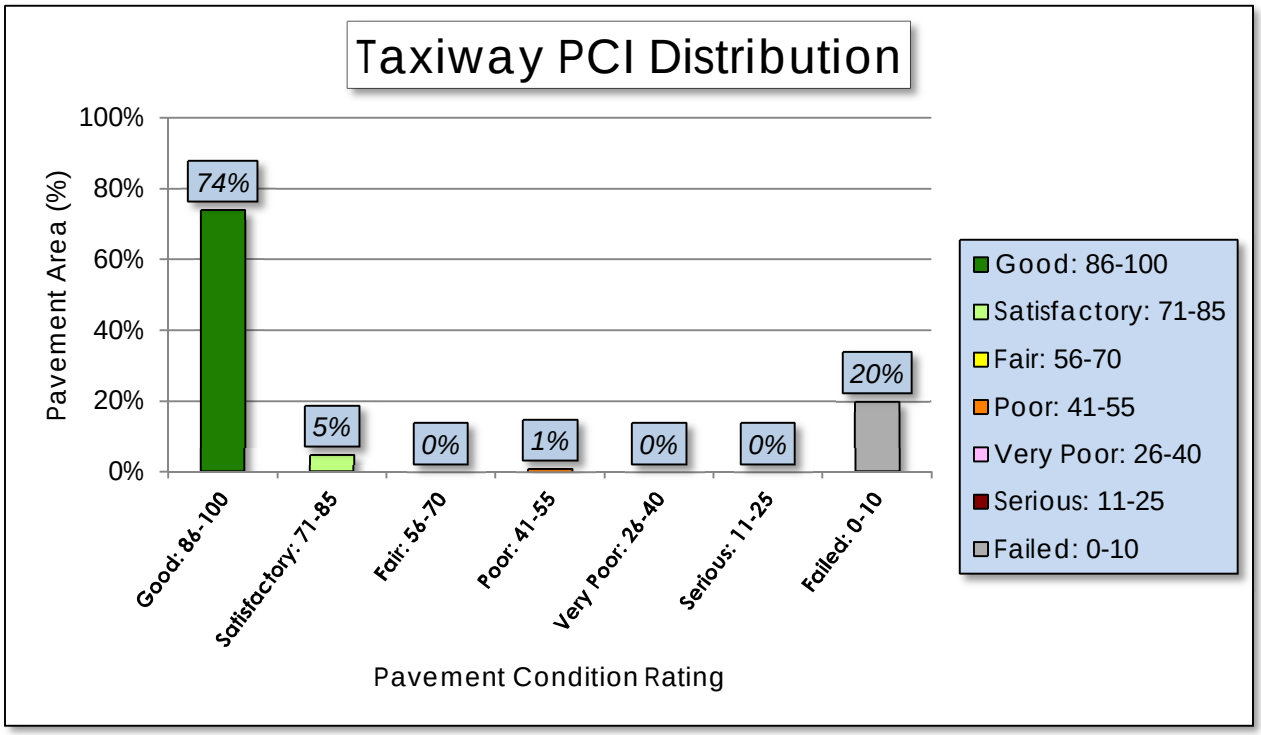
Approximately 74% of the airfield network is in Good and Satisfactory condition, while 17% of the network is in a Poor to Failed condition. Table 3-3 provides a breakdown of total area for each pavement by condition rating. Figures 3.2 a, b, c depict the condition rating of the airfield pavement by Branch Use. Photographs taken during the condition survey inspection are included in Appendix G. The photographs included are intended to be representative of the distress observed.

Figure 3-2: Percentage of Pavement Area by Condition Rating by Use

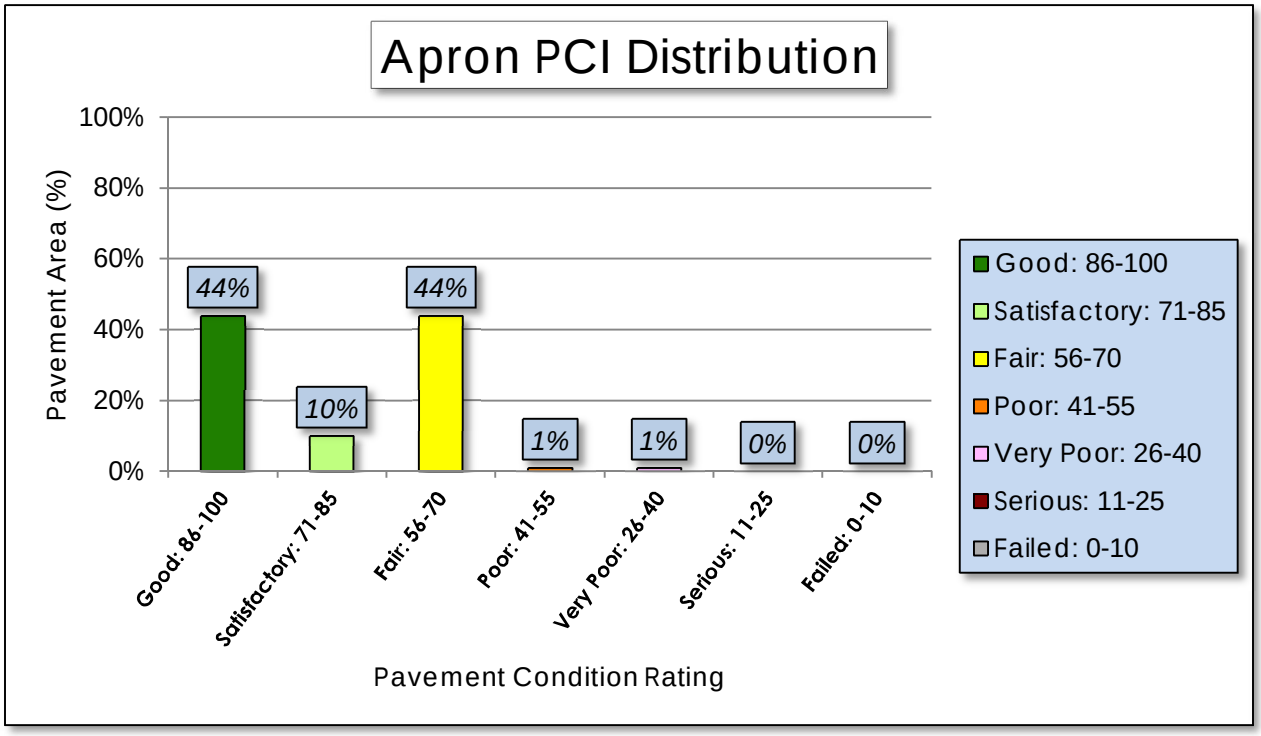
(a) Runway



(b) Taxiway



(c) Apron


Apron PCI Distribution
Pavement Area (%)
100%
80%
60%
40%
20%
0%
44%
10%
44%
1%
1%
0%
0%
Good: 86-100
Satisfactory: 71-85
Fair: 56-70
Poor: 41-55
Very Poor: 26-40
Serious: 11-25
Failed: 0-10
Pavement Condition Rating

4. PAVEMENT PERFORMANCE

Pavement performance models are developed from the distress data collected for the SAPMP for the Florida Airports System. This data is consolidated in a database and organized by inspection date, pavement type, age, pavement use, and airport category. The pavement performance models are used to develop broad prediction models, also known as pavement condition deterioration curves.

The consolidation of the Florida Airports System's pavement infrastructure within the FDOT SAPMP is based on data that has been collected in a consistent method of measurement. The historic pavement condition, or performance trend, has been compiled throughout the system with data from the inception of the SAPMP. This data is processed into models that have been analyzed and developed into prediction curves based upon pavement characteristics. These characteristics include; climate, construction material, and operations. Each model has been developed based on the following criteria:

AIRPORT TYPE (Primary, Regional Reliever, or General Aviation)

>FACILITY USE (Runway, Taxiway, or Apron)

>>FACILITY SURFACE TYPE (AC, AAC, APC, or PCC)

The historic trends of pavement performance at Florida airport facilities for all performance models are consolidated within the program database. This information is utilized in the prediction of pavement performance based on the current PCI determined from the inspections that took place between 2013 and 2015. Major rehabilitation is planned based on the predicted PCI. The intent of this is for both the individual airport and the FDOT District personnel to be aware of anticipated major rehabilitation work based on condition.

Each airport's airfield pavement section condition, for a given inspection year, is one data point that was used as the basis of each performance trend using a performance model based on pavements of similar background. Figures 4-1, 4-2, and 4-3 represent the pavement performance prediction at Williston Municipal Airport based on pavement use. Each figure depicts the FDOT recommended Minimum Service Level PCI value for each facility use.

Figure 4-1: Runway Pavement Performance Prediction Summary

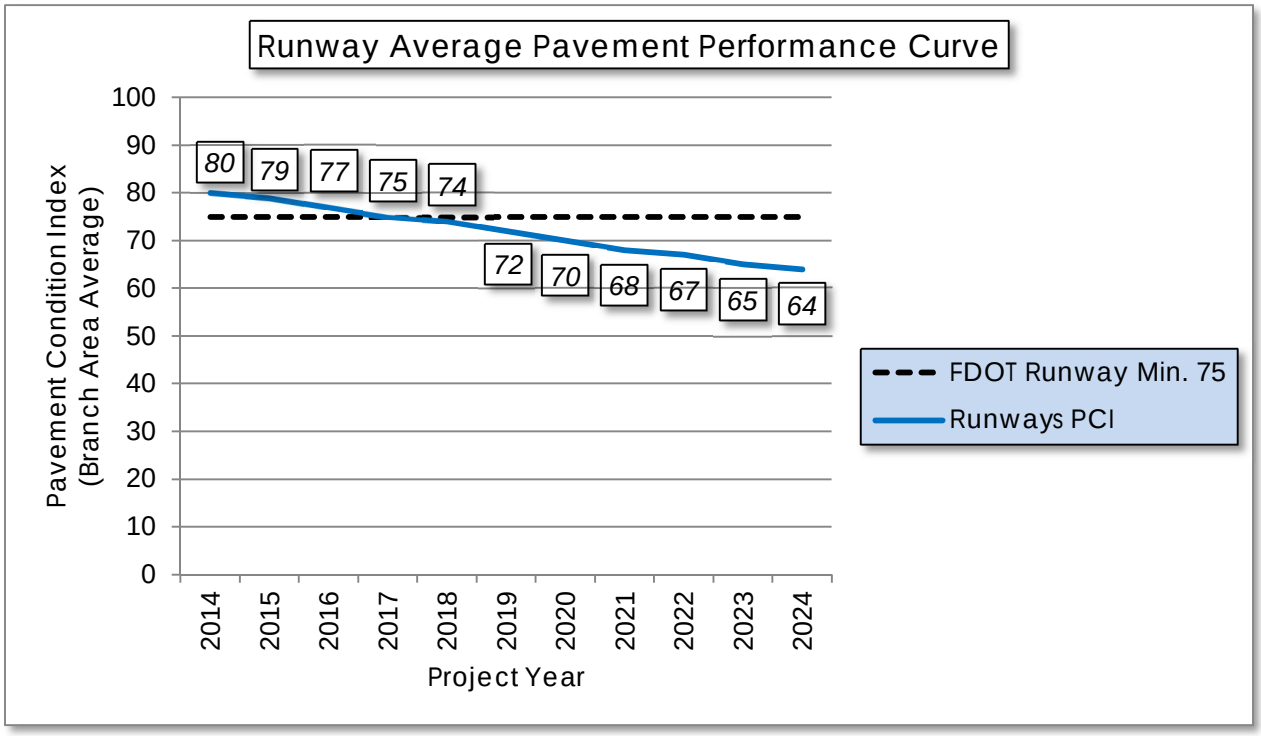


Figure 4-2: Taxiway Pavement Performance Prediction Summary

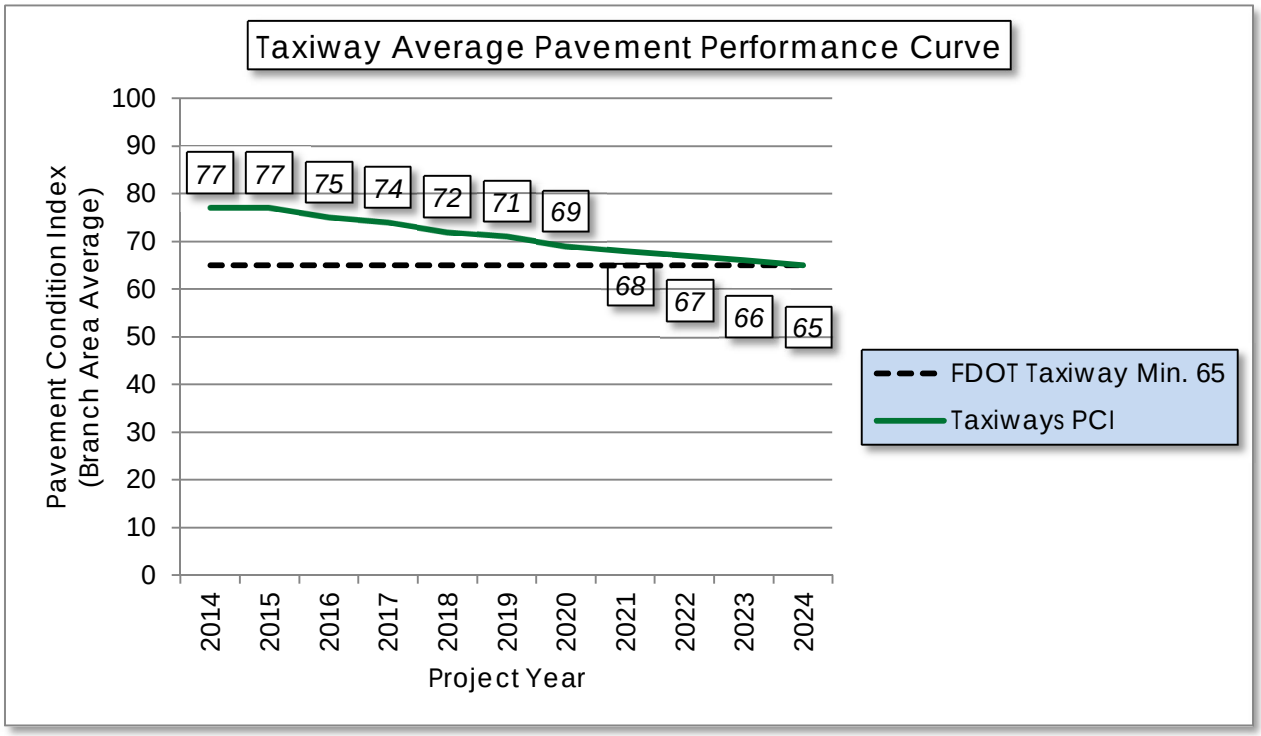
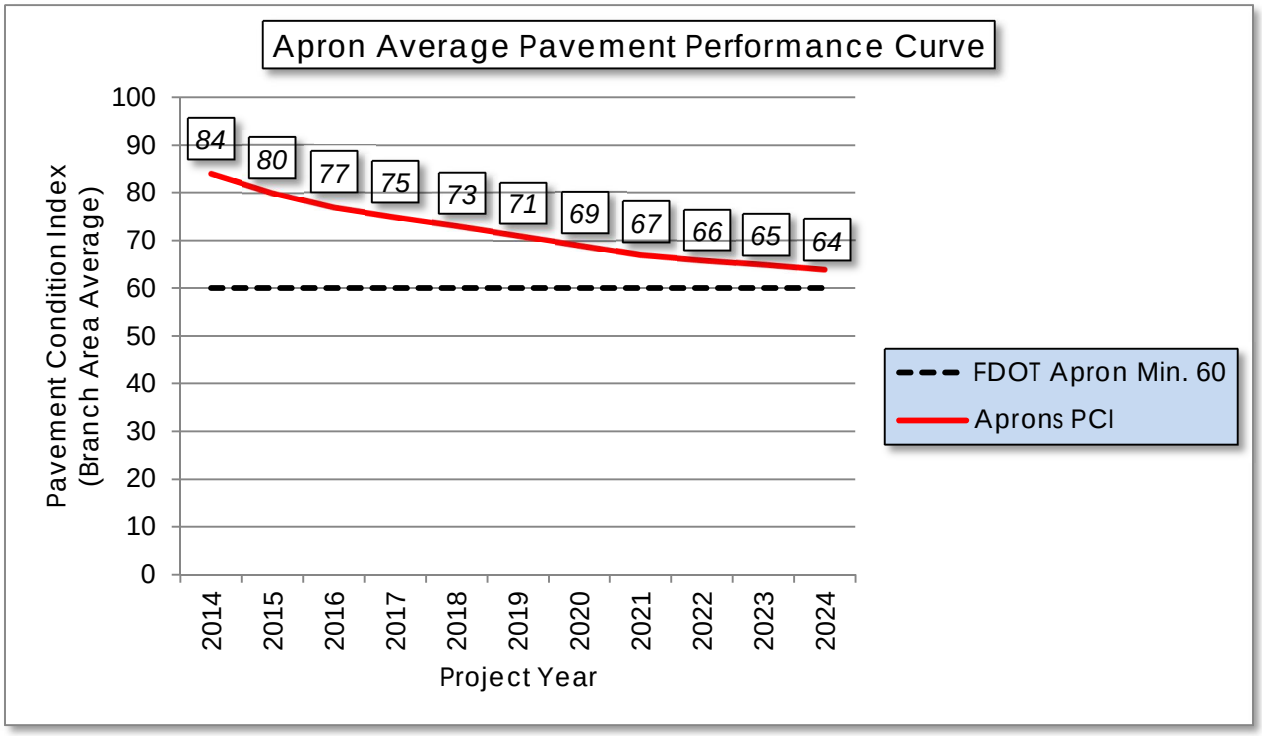


Figure 4-3: Apron Pavement Performance Prediction Summary



Pavement performance modeling to predict the future PCI is primarily done to predict PCI at the Section level for the purpose of planning Major Rehabilitation work. In Appendix D, Table D-1 represents the predicted area-weighted PCI by Section for the airport's airfield pavement infrastructure.

5. AIRFIELD PAVEMENT MAINTENANCE POLICIES AND COSTS

5.1 Policies

Airfield Pavement Maintenance policies are guidance on pavement construction methods used to develop, maintain, repair, and rehabilitate pavement infrastructure based on distresses encountered during the condition surveys.

Maintenance refers to the repair and preservation-type activities that are applied locally to specific distress types on the pavement. These activities for the SAPMP are considered preventative and corrective in nature and are highly recommended to help improve pavement performance and extend pavement life. The SAPMP maintenance policies are based on the FAA Advisory Circular 150/5380-6C and guidance provided in the FDOT Airfield Pavement Repair Manual.

For the purpose of the SAPMP; the maintenance repair needs that are identified and quantified are based solely on the pavement distresses observed and recorded at the time of the inspection. Based on a specific distress type and severity observed, a particular repair work type is recommended and quantified based on the extrapolated section distresses. The repair program identified is specific to the current distresses. Future maintenance planning budgets are based on this initial determination. Tables 5-1 and 5-2 provide the list of maintenance activities incorporated into the SAPMP MicroPAVER database to treat specific distress types and severities.

Table 5-1: Recommended AC, AAC, and APC Maintenance and Repair Policy

Surface Type	Distress Code	Distress Name	Severity	Maintenance Work Type	Work Unit
Flexible Asphalt Concrete (AC, AAC, APC)	41	Alligator Cracking	L, M, H	Full Depth Pavement Patch	Square Feet
	42	Bleeding	N/A	Partial Depth Pavement Patch	Square Feet
	43	Block Cracking	L	Seal Coat Treatment	Square Feet
	43	Block Cracking	M, H	Full Depth Pavement Patch	Square Feet
	44	Corrugation	L, M, H	Full Depth Pavement Patch	Square Feet
	45	Depression	L, M, H	Full Depth Pavement Patch	Square Feet
	46	Jet Blast Erosion	L, M, H	Full Depth Pavement Patch	Square Feet
	47	Joint Reflection Cracking	L	Crack Sealing	Linear Feet
	47	Joint Reflection Cracking	M, H	Full Depth Pavement Patch	Square Feet
	48	Longitudinal/Transverse Cracking	L, M, H	Crack Sealing	Linear Feet
	49	Oil Spillage	L, M	Seal Coat Treatment	Square Feet
	49	Oil Spillage	H	Full Depth Pavement Patch	Square Feet
	50	Patch and Utility Patching	M	Full Depth Pavement Patch	Square Feet
	50	Patch and Utility Patching	H	Full Depth Pavement Patch	Square Feet
	51	Polished Aggregate	L, M, H	Slurry Seal Coat Treatment	Square Feet
	52	Raveling	L, M	Slurry Seal Coat Treatment	Square Feet
	52	Raveling	H	Partial Depth Pavement Patch	Square Feet
	53	Rutting	L, M, H	Full Depth Pavement Patch	Square Feet
	54	Shoving	L, M, H	Grinding / Removal	Square Feet
	55	Slippage Cracking	L, M, H	Full Depth Pavement Patch	Square Feet
	56	Swelling	M, H	Full Depth Pavement Patch	Square Feet
	57	Weathering	M, H	Seal Coat Treatment	Square Feet

Table 5-2: Recommended PCC Maintenance and Repair Policy

Surface Type	Distress Code	Distress Name	Severity	Maintenance Work Type	Work Unit
Rigid Pavement (PCC)	61	Blowup	L, M, H	Slab Replacement / Full Depth Patch	Square Feet
	62	Corner Break	L, M, H	Partial Slab Full Depth Patch - PCC	Square Feet
	63	Longitudinal/Transverse/Diagonal Cracking	H	Crack Sealing - PCC	Linear Feet
	64	Durability Cracking	M, H	Slab Replacement / Full Depth Patch	Square Feet
	65	Joint Seal Damage	L, M, H	Joint Seal Repair (Local)	Linear Feet
	66	Patching, Small	M, H	Partial Slab Full Depth Patch – PCC	Square Feet
	67	Patching, Large	M, H	Partial Slab Full Depth Patch – PCC	Square Feet
	69	Pumping	L, M, H	Slab Stabilization / Slab Jacking	Square Feet
	70	Scaling/Map Cracking/Crazing	L, M	Micro-mill and Seal - PCC	Square Feet
	70	Scaling/Map Cracking/Crazing	H	Slab Replacement / Full Depth Patch	Square Feet
	71	Settlement / Faulting	L	Micro-mill and Seal - PCC	Square Feet
	71	Settlement / Faulting	M, H	Slab Stabilization / Slab Jacking	Square Feet
	72	Shattered Slab	L, M, H	Slab Replacement / Full Depth Patch	Square Feet
	73	Shrinkage Cracks	N/A	Crack Sealing - PCC	Linear Feet
	74	Longitudinal/Transverse Joint Spalling	L, M, H	Partial Patch - PCC	Square Feet

Surface Type	Distress Code	Distress Name	Severity	Maintenance Work Type	Work Unit
	75	Corner Spalling	L, M, H	Partial Patch - PCC	Square Feet
	76	Alkali-Silica Reaction	L	Seal Coat Treatment	Square Feet
	76	Alkali-Silica Reaction	M	Micro-mill and Seal - PCC	Square Feet
	76	Alkali-Silica Reaction	H	Slab Replacement / Full Depth Patch	Square Feet

Though proactive pavement maintenance and preservation is highly recommended in an APMS; it is recognized that pavement that has deteriorated below a certain PCI would benefit more from major rehabilitation rather than localized maintenance and repair work. Major rehabilitation is recommended when the pavement condition decreases below a critical point such that the deterioration is extensive or the rate of deterioration is so great that maintenance repair efforts are no longer cost-efficient. This critical point is called "Critical PCI". The critical PCI levels for different pavement and branch types were established by the FDOT and were used in this update to develop a maintenance and major rehabilitation plan for the airport. Sections that are above the "Critical PCI" levels will be recommended for maintenance, repair, and preservation treatments, assuming there are no significant load-related distresses. For those Sections below the Critical PCI, the recommended action will consist of major rehabilitation work. This approach is used for the Section's Current PCI value and the predicted PCI value for future rehabilitation.

The FDOT has recommended minimum service level PCI for airports based on pavement facility use, airport type, and expected loading frequency. This minimum service level PCI is recommended to ensure the pavement provides a safe operational surface and efficiently uses maintenance and rehabilitation budgets. Separately, the Critical PCI is a value based on historic pavement performance trends and costs. It is at a PCI value of 65, for most airports, at which major rehabilitation is recommended over maintenance level efforts. Table 5-3 identifies the FDOT recommended PCI by use and the critical PCI value for the most important pavements at the airport. This is due to the condition of the pavement and the cost effectiveness of the work. A very important concept of a good pavement management system is the proactive preservation of

pavements that are above Critical PCI condition. Conversely, allowing pavement to deteriorate beyond maintenance and performing "worst first" major rehabilitation may cost much more over the life of a pavement.

Table 5-3: Critical and Minimum Service Level PCI for General Aviation Airports

Use	FDOT Recommended PCI	Critical PCI
Runway	75	65
Taxiway	65	65
Apron	65	65

Based on historic trends of pavement performance and industry standard practices in pavement maintenance and rehabilitation, the SAPMP included general guidance on construction activity based on condition PCI, as shown on Table 5-4. It is recommended that further investigation of underlying pavement conditions is performed at the design phase.

Table 5-4: Maintenance and Major Rehabilitation Activity Based on PCI

Category	Activity	PCI Range
Maintenance	▪ Crack Sealing (AC/PCC) ▪ Partial Depth Patching (AC) ▪ Full Depth Patching (AC/PCC) ▪ Surface Treatment (AC)	75 - 90
Rehabilitation	▪ Mill and Overlay (AC) ▪ Concrete Pavement Restoration (PCC)	40 - 74
	▪ Full Depth Pavement Reconstruction	0 - 39

The PCI standard scale ranges from a value of 0, typically representing a pavement in a failed condition, to a value of 100 which typically represents a pavement in new or good condition. Generally, airfield pavement sections with a PCI of 75 or higher that are not exhibiting distresses due to aircraft loading will benefit from maintenance activities such as crack sealing, patching, and surface treatments. Pavement sections with PCI values within the range of 40 to 74 may require major rehabilitation, such as a mill and overlay. Lastly, pavement sections with a PCI value of 40 or less are recommended to undergo pavement

reconstruction. Generally pavement reconstruction is the only practical means of restoration due to the substantial distresses observed in the pavement structure. Since PCI values are based solely on the visual determination of pavement distresses and deterioration, this method does not provide a direct measure of structural integrity.

5.2 Unit Costs

The FDOT SAPMP developed and updated the maintenance and major rehabilitation costs based on public cost databases for airport and highway pavement construction. Additionally, cost data collected from FDOT and FAA sponsored projects in the Florida Airports System were utilized to identify construction cost trends across the state.

The maintenance, repair, and preservation activity costs have been updated and developed using readily available construction cost data at the time of this update. The costs depicted in this report for both maintenance and major rehabilitation are intended for planning purposes.

5.3 Maintenance, Repair, and Major Rehabilitation

FDOT recognizes that although pavement mill and overlay is recommended for flexible asphalt concrete pavement within a PCI range from 40 to 74, it is conceivable that airports may not have adequate funding to perform this type of major rehabilitation. A comprehensive surface treatment; per the treatments described in FAA AC 150/5370-10G Standards for Specifying Construction of Airports, as a maintenance rehabilitation activity, can be used in lieu of asphalt concrete pavement mill and overlay. However, it should be understood that these measures provide only a short term extension of pavement life. While the cost of surface treatments are significantly lower than that of pavement mill and overlay, it is not intended or implied to be a full rehabilitative measure for long term benefit. Table 5-5 and Table 5-6 provide budget costs associated with the work types shown in the table.

Table 5-5: AC Maintenance Unit Costs

Surface Type	Maintenance Work Type	Cost	Work Unit
Flexible Asphalt Concrete (AC, AAC, APC)	Full Depth Pavement Patch	$5.00	Square Feet
	Partial Depth Pavement Patch	$3.00	Square Feet
	Seal Coat Treatment	$0.55	Square Feet
	Crack Sealing	$2.75	Linear Feet
	Slurry Seal Coat Treatment	$0.55	Square Feet
	Grinding / Removal	$2.10	Square Feet

Table 5-6: PCC Maintenance Unit Costs

Surface Type	Maintenance Work Type	Cost	Work Unit
Rigid Pavement (PCC)	Slab Replacement / Full Depth Patch	$45.00	Square Feet
	Partial Patch - PCC	$19.10	Square Feet
	Crack Sealing - PCC	$4.25	Linear Feet
	Joint Seal Repair (Local)	$3.00	Linear Feet
	Slab Stabilization / Slab Jacking	$45.00	Square Feet
	Micro-mill and Seal - PCC	$1.00	Square Feet
	Seal Coat Treatment	$1.00	Square Feet

As part of the SAPMP update, the distress data observed at each airport during the inspection is extrapolated on a section basis to make maintenance recommendations. These recommendations are a direct result of the distress types, severities, and quantities observed at the time of inspection. The maintenance recommendations and planning costs are correlated with the airport's airfield pavement network's overall area weighted PCI and used to plan

future maintenance costs. Future maintenance costs are planning budgets that are not specific to a pavement section, but are estimates for the entire airfield. Table 5-7 provides budget costs associated with the rehabilitation activities.

Table 5-7: Rehabilitation Activities and Unit Costs by Condition for General Aviation Airports

Category	Activity	PCI Range	Cost/SqFt
Rehabilitation	▪ Mill and Overlay (AC)	40 - 74	$8.00
	▪ Concrete Pavement Restoration (PCC)		$10.00
	▪ Full Depth Pavement Reconstruction	0 - 39	$15.00

A cost scale has been developed based on PCI to develop planning level budgets for the airfield pavements. The cost scale is adjusted by project year based on an assumed inflation rate of 3%. In Appendix E, Table E-1 summarizes the Year-1 maintenance and repair recommendations based on the most recent inspection. The summary in Table E-1 does not take into account any rehabilitation activities, but rather summarizes preventative activities for all PCI ranges, including below critical PCI sections.

6. MAJOR PAVEMENT REHABILITATION NEEDS

As part of the SAPMP, major pavement rehabilitation planning is developed based on current and predicted PCI in comparison with the Critical PCI. The Critical PCI has been determined based on the historic trends of pavement condition relative to the benefit of maintenance and repair activities. Pavement sections determined to have a PCI less than that of the Critical PCI are assumed to have deteriorated to a point at which maintenance and repair level activity would provide little benefit.

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 from a functionality perspective. In addition, major rehabilitation is also recommended when the Section PCI is above the Critical PCI but the Section has load-related PCI distresses. However, most major rehabilitation work is recommended when the Section PCI is below the Critical PCI, which is when maintenance and repair level activities are not considered to be cost effective.

Major rehabilitation is identified within the 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 and re-construction. This analysis was conducted with no constraints to budgets as a means to identify all pavement projects based on Critical PCI for a 10-year duration. It is recommended that the airport use this as a planning tool for future project development and prioritization. Table 6-1 depicts the major rehabilitation work identified on the pavement section level based on current and predicted pavement PCI.

Airports should consider the major rehabilitation work types of mill and overlay, PCC restoration, and reconstruction planning level classifications only. Additional design level investigation in accordance to the FAA Advisory Circulars will be required to identify specific areas within each section that are subject to reconstruction, mill and overlay, and PCC restoration. The work and budgets identified are intended for the planning level not the design level. Areas identified as mill and overlay may in fact require select areas of reconstruction should load-based distresses observed warrant it.

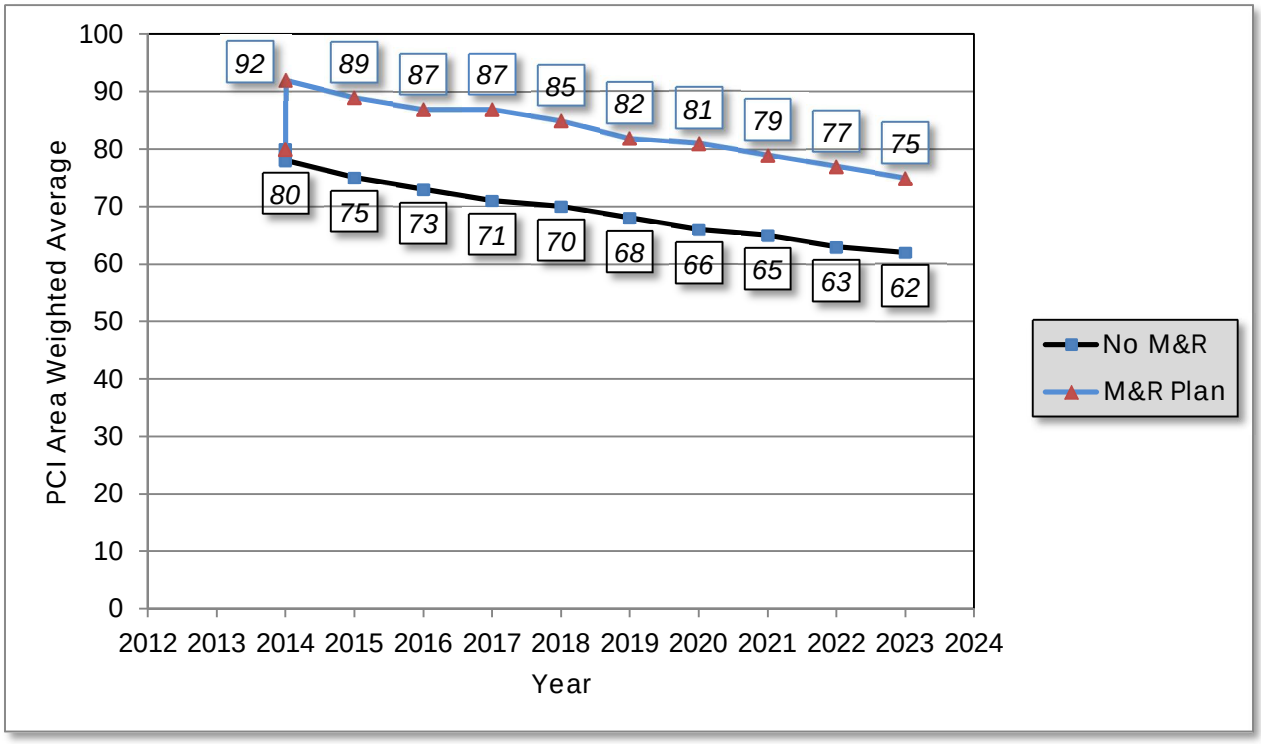
Table 6-1: Summary of Major Rehabilitation

Year	Branch ID	Section ID	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
2015	AP T-HANG	4315	$ 39,000.00	55	Mill and Overlay	100
2015	AP T-HANG	4316	$ 43,005.00	28	Reconstruction	100
2015	RW 14-32	6205	$ 370,305.00	40	PCC Restoration	100
2015	RW 14-32	6235	$ 247,690.00	57	PCC Restoration	100
2015	RW 5-23	6112	$ 153,675.00	50	Mill and Overlay	100
2015	TW F	550	$ 1,932,555.00	10	Reconstruction	100
2015	TW F	555	$ 152,775.00	43	PCC Restoration	100
2015	TW G	450	$ 1,417,095.00	10	Reconstruction	100
2017	AP T-HANG	4325	$ 231,234.00	65	Mill and Overlay	100
2018	AP	4105	$ 1,161,033.00	65	Mill and Overlay	100
		Total =	$ 5,748,367.00			

**Costs are adjusted for inflation at 3%.*

The 10-year major rehabilitation program addresses those pavement sections that have a current or project PCI that is below the Critical PCI of 65 during the 10-year analysis period. The unconstrained or "unlimited budget" Major Rehabilitation Program is compared to a "No Major Rehabilitation Program" scenario in Figure 6-1. As shown, if no major rehabilitation work is completed in the next 10 years at your airport, the average PCI may be 13 points less than a plan that provides timely repairs to the airfield pavements.

Figure 6-1: 10-Year Major Rehabilitation Budget Scenario Analysis



7. PREVENTATIVE AND MAJOR REHABILITATION PLANNING

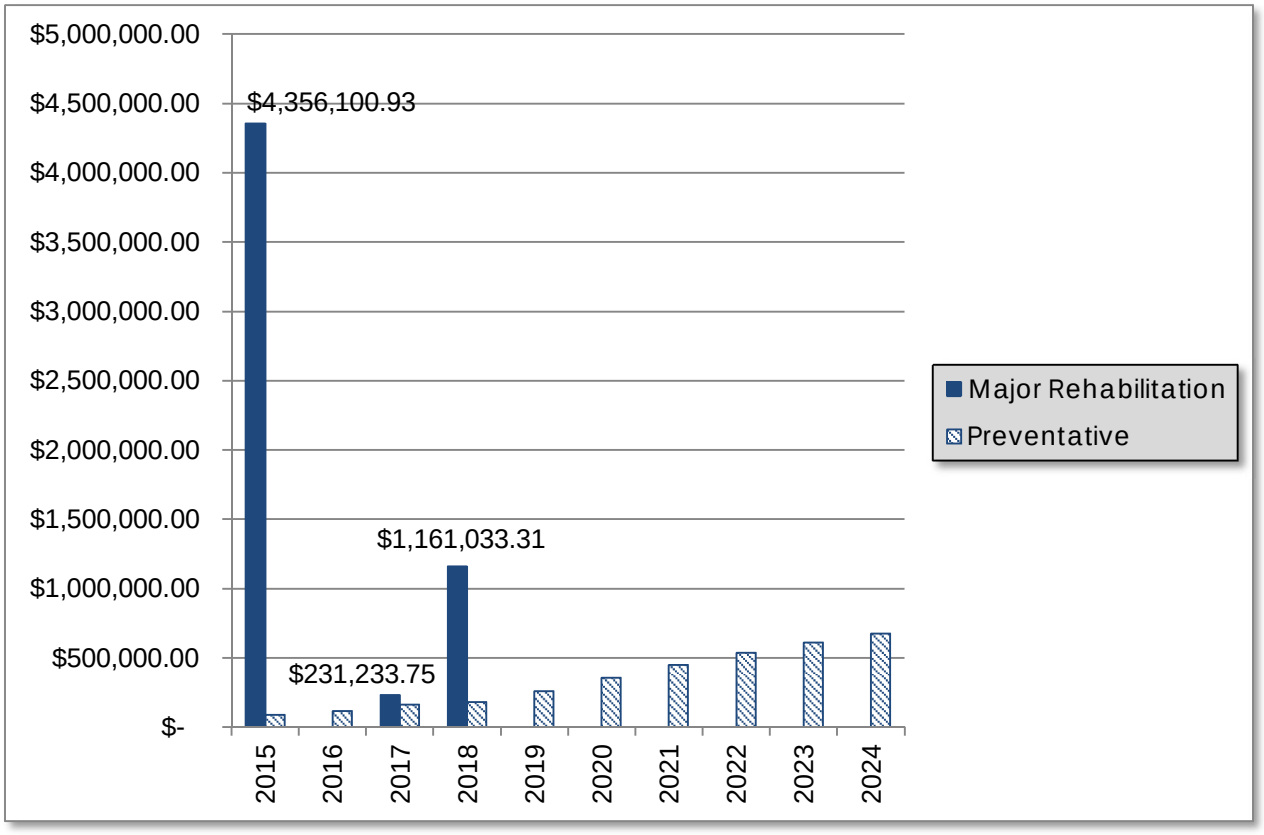
The preventative and major rehabilitation results include activities that are based on distresses observed and unconstrained by budget limits. FDOT recognizes that the projects identified as Year-1 needs in 2015, based on condition, may exceed a typical annual budget level. It is recommended that each airport further evaluate each project's feasibility and desirability based on the airport's future development plans and budgeting scenarios.

In an effort to identify appropriate budget levels, the 10-year Preventative and Major Rehabilitation analysis evaluated projected budget needs based on predicted PCI of each pavement section. Table 7-1 and Figure 7-1 provides a summary of the expected preventative and major rehabilitation for each program year.

Table 7-1: 10-Year Preventative and Major Rehabilitation Summary

Program Year	Preventative	Major Rehabilitation	Total Year Costs
2015	$ 88,903.24	$ 4,356,100.93	$ 4,445,004.17
2016	$ 115,882.50	$ -	$ 115,882.50
2017	$ 162,378.38	$ 231,233.75	$ 393,612.14
2018	$ 179,139.03	$ 1,161,033.31	$ 1,340,172.34
2019	$ 260,065.42	$ -	$ 260,065.42
2020	$ 356,852.68	$ -	$ 356,852.68
2021	$ 448,538.56	$ -	$ 448,538.56
2022	$ 534,891.23	$ -	$ 534,891.23
2023	$ 612,102.18	$ -	$ 612,102.18
2024	$ 676,235.38	$ -	$ 676,235.38
		Total =	$ 9,183,356.60

Figure 7-1: 10-Year Preventative and Major Rehabilitation Summary



According to the most recent inspections at the time of this update; the following pavement sections were identified as a Year-1 need for major rehabilitation:

- Runway 14-32 – Sections 6205 and 6235
  - PCC Restoration attributed to structural, climate/age, and construction quality.
- Runway 5-23 – Section 6112
  - Mill and Overlay attributed to climate/age.
- T-Hangar Apron – Sections 4315 and 4316
  - Reconstruction and Mill and Overlay attributed to climate/age and construction quality.
- Taxiway F – Section 555
  - PCC Restoration attributed to climate/age, structural, and construction quality.
- Taxiway F – Section 550
  - Reconstruction attributed to climate/age, structural, and construction quality.
- Taxiway G – Section 450

- Reconstruction attributed to climate/age.

Appendix E summarizes the preventative repair recommendations for Year-1 and Appendix F provides an exhibit, Airfield Pavement Major Rehabilitation that depicts the recommended major rehabilitation on the airfield pavement network according to work type and year.

8. VISUAL AID EXHIBITS

8.1 Airfield Pavement Network Definition Exhibit

The Airfield Pavement Network Definition Exhibit in Appendix A depicts the airfield layout in a manner that defines the airfield pavement infrastructure as branches, sections, and sample units in accordance with the ASTM D 5340-12. The exhibits are prepared and updated with information provided by the airport and from aerial imagery from the FDOT Surveying and Mapping publications.

8.2 Airfield Pavement System Inventory Exhibit

The Airfield Pavement System Inventory Exhibit in Appendix A depicts any recent airfield pavement construction activity reported by the airport. The exhibit is intended to identify pavement sections that may have changed in geometry and pavement composition that would affect the section delineation. The information provided in the Airport Response Form was used as the basis of the changes and confirmed with the airport personnel at the time of inspection.

8.3 Airfield Pavement Condition Index Rating Exhibit

The Airfield Pavement Condition Index Rating Exhibit in Appendix B has been prepared based on the section condition analysis of the distress data collected during the recent condition index rating survey. The exhibit graphically depicts the inventory with associated condition rating colors and PCI values.

8.4 Airfield Pavement Major Rehabilitation Exhibit

The Airfield Pavement Major Rehabilitation Exhibit in Appendix F has been prepared based on the section pavement performance model and major rehabilitation analysis. The exhibit graphically depicts the inventory with associated rehabilitation activity, program year, and the planning level costs.

8.5 Airfield Pavement Condition Survey Inspection Photographs

During the field condition survey inspection; inspectors photographed representative distress types observed. Select photographs are provided in Appendix G to provide visual support to special pavement conditions or distresses observed.

9. RECOMMENDATIONS

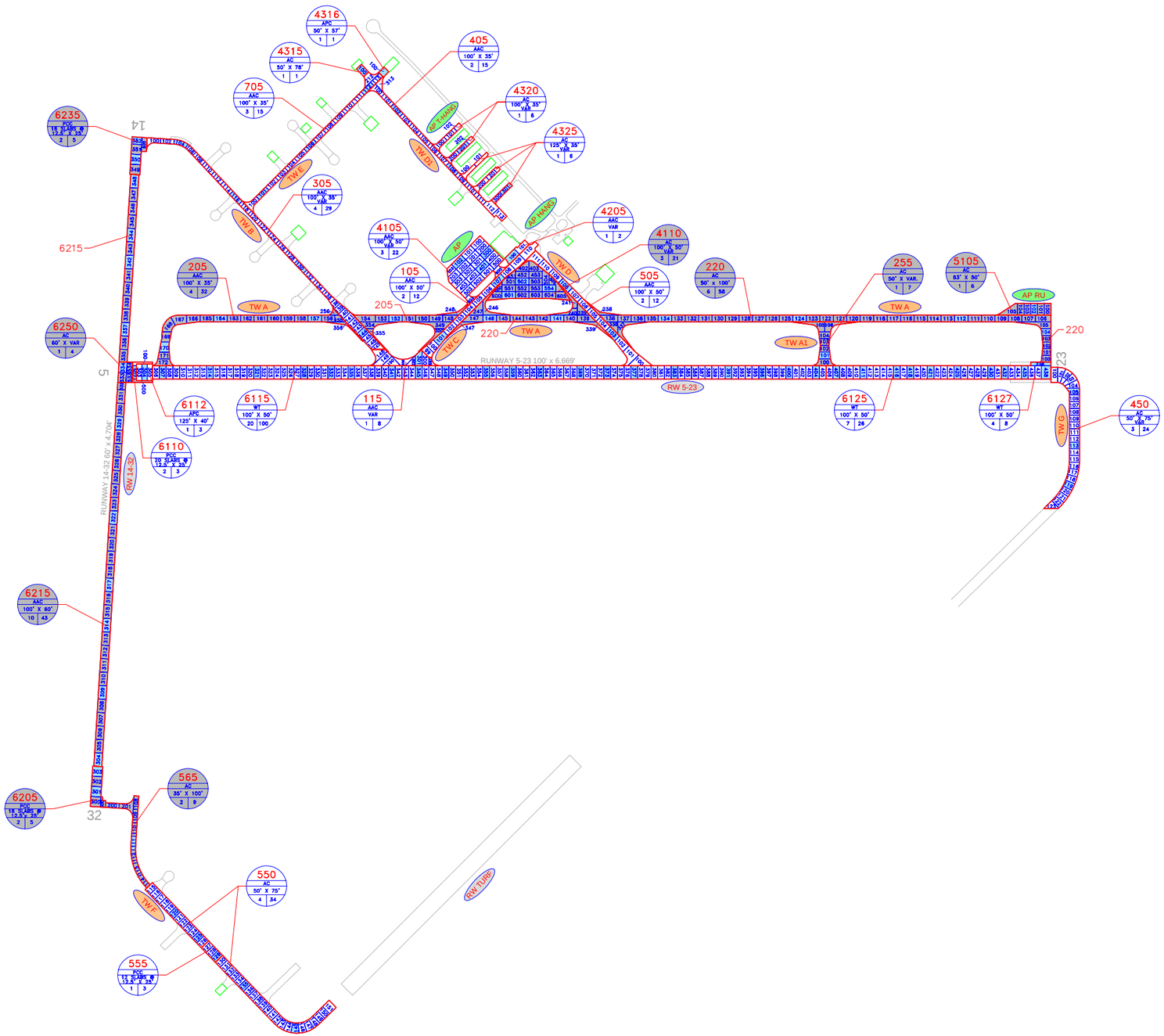
The recommendations developed are intended for the planning level for each airport. Additional project specific investigation in accordance with the FAA Advisory Circulars is recommended to further refine the project scope and budget requirements.

The following recommendations were made based on the 2015 condition survey inspection, condition analysis, and maintenance/rehabilitation analysis results:

- Runway 14-32 – Sections 6205 and 6235
  - PCC Restoration attributed to structural, climate/age, and construction quality.
- Runway 5-23 – Section 6112
  - Mill and Overlay attributed to climate/age.
- T-Hangar Apron – Sections 4315, 4316, and 4325
  - Reconstruction and Mill and Overlay attributed to climate/age and construction quality.
- Taxiway F – Section 555
  - PCC Restoration attributed to climate/age, structural, and construction quality.
- Taxiway F – Section 550
  - Reconstruction attributed to climate/age, structural, and construction quality.
- Taxiway G – Section 450
  - Reconstruction attributed to climate/age.
- Apron – Section 4105
  - Mill and Overlay attributed to climate/age and construction quality.

APPENDIX A

- AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT
- AIRFIELD PAVEMENT SYSTEM INVENTORY EXHIBIT
- PAVEMENT GEOMETRY INVENTORY
- WORK HISTORY REPORT



NORTH

GRAPHIC SCALE IN FEET
0 200 400 800

LEGEND

- RW 13-31 — TYPICAL RUNWAY BRANCH ID
- TW A — TYPICAL TAXIWAY BRANCH ID
- AP S — TYPICAL APRON BRANCH ID
- 4105 / AC / 100' x 50' / 5 / 14 — TYPICAL SAMPLE UNIT INFORMATION
  - SECTION NUMBER
  - PAVEMENT TYPE
  - TYPICAL SAMPLE UNIT INFORMATION
    FLEXIBLE (AC) PAVEMENT LENGTH & WIDTH
    RIGID (PCC) PAVEMENT NO. OF SLABS AND SLAB SIZE
  - NUMBER OF SAMPLE UNITS IN SECTION
  - NUMBER OF SAMPLE UNITS TO BE INSPECTED
- 605 / AC / 100' X 50' VAR / 1 / 8 — SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.
- 100 — INSPECTED SAMPLE UNITS. GPS COORDINATES ARE AT THE CENTROID OF THE SAMPLE UNIT.

TOTAL SAMPLES INSPECTED = 96

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

NUMBER	DATE	REVISIONS

DESIGNED: KHA | DRAWN: KHA | CHECKED: KHA | DATE: 2015

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

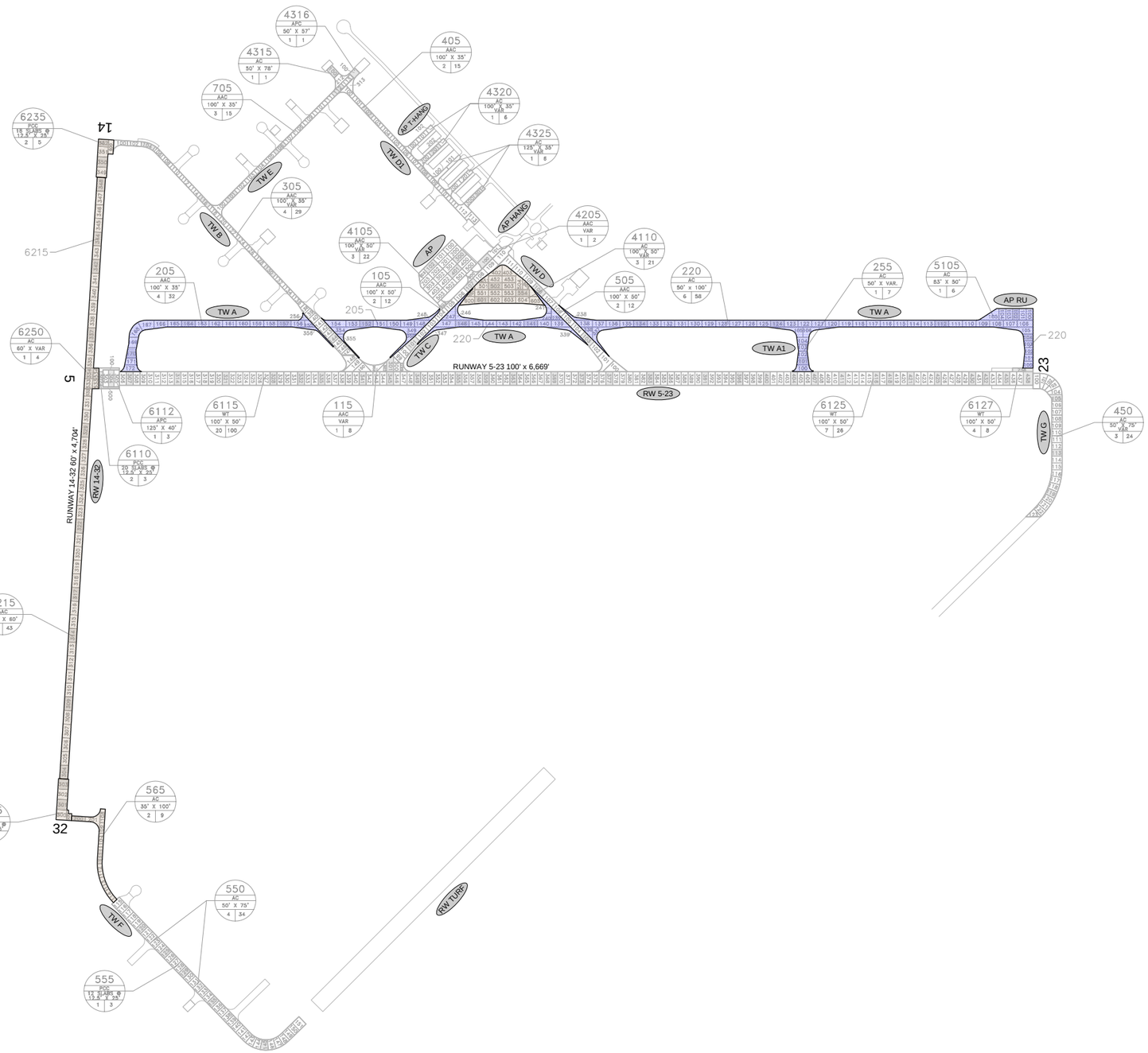
FDOT

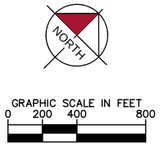
AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT

WILLISTON MUNICIPAL AIRPORT
LEVY COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: X60
FDOT DISTRICT: 2





CONSTRUCTION SINCE LAST INSPECTION & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2013	TAXIWAY A FROM RUNWAY 5-23 TO TAXIWAY C	MILL & OVERLAY & PARTIAL RECONST. W/ 4" P-401, 6" LIMEROCK BASE AND 12" STABILIZED SUBGRADE
2013	TAXIWAY A FROM TAXIWAY C TO RUNWAY 5-23	NEW CONSTRUCTION 4" P-401, 6" LIMEROCK, AND 12" SUBGRADE
2015	RUNWAY 14-32	0.5" MILL AND 2.5" P-401 OVERLAY
2015	RUNWAY 14-32, RUNWAY 5-23 INTERSECTION	COMPLETE RECONSTRUCTION, 2.5" P-401, 6" P-211, 12" P-160
2015	TAXIWAY F	NEW AC CONSTRUCTION, 2" FDOT SP-12.5, 8" LIMEROCK, 12" STABILIZED SUBGRADE
2015	CENTER APRON	NEW AC CONSTRUCTION, 4" P-401, 6" P-211, 12" P-160
2015	RUNWAY 14-32 ENDS	JOINT AND CRACK SEAL REPAIR ON EXISTING PCC

LEGEND

- PROJECTS YEAR 2010
- PROJECTS YEAR 2011
- PROJECTS YEAR 2012
- PROJECTS YEAR 2013
- PROJECTS YEAR 2014
- PROJECTS YEAR 2015
- PROJECTS YEAR 2016
- PROJECTS YEAR 2017
- PROJECTS YEAR 2018
- PROJECTS YEAR 2019

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

NUMBER	DATE	REVISIONS
DESIGNED: KHA	DRAWN: KHA	CHECKED: KHA	DATE: 2015

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

FDOT

AIRFIELD PAVEMENT SYSTEM INVENTORY EXHIBIT

WILLISTON MUNICIPAL AIRPORT
LEVY COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: X60

FDOT DISTRICT: 2

Table A-1: Pavement Geometry Inventory

Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	True Area (FT^2)	Section Rank	Surface Type	Last Const. Date	Last Insp. Date	Total Samples
RUNWAY 14-32	RW 14-32	RUNWAY	6250	303	100	15,631	P	AC	2/1/2015	2/1/2015	4
RUNWAY 14-32	RW 14-32	RUNWAY	6235	300	100	24,769	P	PCC	1/1/1942	2/14/2012	6
RUNWAY 14-32	RW 14-32	RUNWAY	6215	4,300	100	254,982	P	AAC	2/1/2015	2/1/2015	43
RUNWAY 14-32	RW 14-32	RUNWAY	6205	303	100	24,687	P	PCC	1/1/1942	2/14/2012	6
RUNWAY 5-23	RW 5-23	RUNWAY	6112	150	100	15,000	P	APC	1/1/2006	1/21/2015	3
RUNWAY 5-23	RW 5-23	RUNWAY	6110	600	25	7,500	P	PCC	1/1/1942	1/21/2015	3
RUN-UP APRON	AP RU	APRON	5105	400	50	28,165	P	AC	1/1/2013	1/1/2013	6
APRON AT T-HANGARS	AP T-HANG	APRON	4325	709	35	21,796	P	AC	1/1/2003	1/21/2015	6
APRON AT T-HANGARS	AP T-HANG	APRON	4320	507	35	18,657	P	AC	1/1/2005	1/21/2015	6
APRON AT T-HANGARS	AP T-HANG	APRON	4316	65	50	2,867	P	APC	1/1/2003	1/21/2015	1
APRON AT T-HANGARS	AP T-HANG	APRON	4315	80	50	3,900	P	AC	1/1/1986	1/21/2015	1
HANGAR APRON	AP HANG	APRON	4205	180	20	10,658	P	AAC	1/1/2009	1/21/2015	2
APRON	AP	APRON	4110	1,000	100	101,074	P	AC	2/1/2015	2/1/2015	21
APRON	AP	APRON	4105	390	255	106,251	P	AAC	1/1/2009	1/21/2015	22
TAXIWAY E	TW E	TAXIWAY	705	1,384	35	55,768	P	AAC	1/1/2009	1/21/2015	15
TAXIWAY F	TW F	TAXIWAY	565	1,000	35	33,640	P	AC	2/1/2015	2/1/2015	9
TAXIWAY F	TW F	TAXIWAY	555	150	75	11,250	P	PCC	1/1/1942	1/21/2015	3
TAXIWAY F	TW F	TAXIWAY	550	2,450	75	128,837	P	AC	1/1/1942	1/21/2015	34
TAXIWAY D	TW D	TAXIWAY	505	1,150	25	70,293	P	AAC	1/1/2009	1/21/2015	12
TAXIWAY G	TW G	TAXIWAY	450	1,173	75	94,473	P	AC	1/1/1942	1/21/2015	24
TAXIWAY D-1	TW D1	TAXIWAY	405	1,384	35	57,110	P	AAC	1/1/2009	1/21/2015	15
TAXIWAY B	TW B	TAXIWAY	305	2,365	35	101,923	P	AAC	1/1/2009	1/21/2015	29

Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	True Area (FT^2)	Section Rank	Surface Type	Last Const. Date	Last Insp. Date	Total Samples
TAXIWAY A1	TW A1	TAXIWAY	255	600	50	34,316	P	AC	1/1/2013	1/1/2013	7
TAXIWAY A	TW A	TAXIWAY	220	3,000	50	287,885	P	AC	1/1/2013	1/1/2013	58
TAXIWAY A	TW A	TAXIWAY	205	1,990	35	159,607	P	AAC	1/1/2013	1/1/2013	32
TAXIWAY C	TW C	TAXIWAY	115	416	70	35,409	P	AAC	1/1/2009	1/21/2015	8
TAXIWAY C	TW C	TAXIWAY	105	1,174	50	62,023	P	AAC	1/1/2009	1/21/2015	12
WHITETOPPING PAVEMENT SECTIONS											
RUNWAY 5-23	*RW 5-23*	*RUNWAY*	*6127*	*369*	*100*	*36,900*	*P*	*WT*	*1/1/2005*	*1/21/2015*	*8*
RUNWAY 5-23	*RW 5-23*	*RUNWAY*	*6125*	*1,300*	*100*	*130,000*	*P*	*WT*	*1/1/2005*	*1/21/2015*	*26*
RUNWAY 5-23	*RW 5-23*	*RUNWAY*	*6115*	*5,000*	*100*	*500,000*	*P*	*WT*	*1/1/2005*	*1/21/2015*	*100*

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.
** Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey. Please refer to Section 3 for discussion on the updates to the ASTM D 5640 that may affect PCI in comparison to previous program update.*

Network: X60 **Branch**: AP (APRON) **Section:** 4105 **Surface:** AAC
L.C.D.: 01/01/2009 **Use:** APRON **Rank** P **Length:** 390.00 Ft **Width:** 255.00 Ft **True Area:** 106,251.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2009	ML-OV	Mill and Overlay	$0	0.00	True	
01/01/1990	IMPORTED	BUILT			True	ESTIMATE 1990 AC PAVEMENT WITH EMULSION SEAL

Network: X60 **Branch**: AP (APRON) **Section:** 4110 **Surface:** AC
L.C.D.: 02/01/2015 **Use:** APRON **Rank** P **Length:** 1,000.00 Ft **Width:** 100.00 Ft **True Area:** 101,074.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2015	NU-IN	New Construction - Initial	$0	0.00	True	4" P-601 SUPERPAVE, 6" LIMEROCK, 12" P-160

Network: X60 **Branch**: AP HANG (HANGAR APRON) **Section:** 4205 **Surface:** AAC
L.C.D.: 01/01/2009 **Use:** APRON **Rank** P **Length:** 180.00 Ft **Width:** 20.00 Ft **True Area:** 10,658.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2009	ML-OV	MILL and OVERLAY	$0	0.00	True	
01/01/1985	IMPORTED	OVERLAY			True	ESTIMATE 1985 AC OVERLAY
01/01/1942	IMPORTED	BUILT		2.00	True	ASSUME: 1942 2" AC ON 6" LIME ROCK BASE

Network: X60 **Branch**: AP RU (RUN-UP APRON) **Section:** 5105 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** APRON **Rank** P **Length:** 400.00 Ft **Width:** 50.00 Ft **True Area:** 28,165.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	4.00	True	4" P-401 ON 6" P-211 ON 12" P-160

Network: X60 **Branch**: AP T-HANG (APRON AT T-HANGARS) **Section:** 4315 **Surface:** AC
L.C.D.: 01/01/1986 **Use:** APRON **Rank** P **Length:** 80.00 Ft **Width:** 50.00 Ft **True Area:** 3,900.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1986	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: AP T-HANG (APRON AT T-HANGARS) **Section:** 4316 **Surface:** APC
L.C.D.: 01/01/2003 **Use:** APRON **Rank** P **Length:** 65.00 Ft **Width:** 50.00 Ft **True Area:** 2,867.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2003	OL-AS	Overlay - AC Structural	$0	0.00	True	EST 2003 AC OVERLAY. UNKNOWN PAVEMENT SECTION
01/01/1986	NC-PC	New Construction - PCC	$0	0.00	True	EST 1986 PCC PAVEMENT

Network: X60 **Branch**: AP T-HANG (APRON AT T-HANGARS) **Section:** 4320 **Surface:** AC
L.C.D.: 01/01/2005 **Use:** APRON **Rank** P **Length:** 507.00 Ft **Width:** 35.00 Ft **True Area:** 18,657.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: AP T-HANG (APRON AT T-HANGARS) **Section:** 4325 **Surface:** AC
L.C.D.: 01/01/2003 **Use:** APRON **Rank** P **Length:** 709.00 Ft **Width:** 35.00 Ft **True Area:** 21,796.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2003	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: RW 14-32 (RUNWAY 14-32) **Section:** 6205 **Surface:** PCC
L.C.D.: 01/01/1942 **Use:** RUNWAY **Rank** P **Length:** 303.00 Ft **Width:** 100.00 Ft **True Area:** 24,687.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2015	JS-GL	Joint Seal	$0	0.00	False	JOINT SEAL AND CRACK SEAL. NOT INSPECTED DUE TO CONSTRUCTION
01/01/1942	IMPORTED	BUILT		8.00	True	1942: 8" PCC PAVEMENT

Network: X60 **Branch**: RW 14-32 (RUNWAY 14-32) **Section:** 6215 **Surface:** AAC
L.C.D.: 02/01/2015 **Use:** RUNWAY **Rank** P **Length:** 4,300.00 Ft **Width:** 100.00 Ft **True Area:** 254,982.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2015	ML-OV	MILL and OVERLAY	$0	0.00	True	0.5" MILL & 2.5" P-401 OVERLAY
01/01/1942	IMPORTED	BUILT		2.00	True	1942: 2" AC ON 6" LIME ROCK BASE

Network: X60 **Branch**: RW 14-32 (RUNWAY 14-32) **Section:** 6235 **Surface:** PCC
L.C.D.: 01/01/1942 **Use:** RUNWAY **Rank** P **Length:** 300.00 Ft **Width:** 100.00 Ft **True Area:** 24,769.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2015	JS-GL	Joint Seal	$0	0.00	False	JOINT SEAL AND CRACK SEAL. NOT INSPECTED DUE TO CONSTRUCTION
01/01/1942	IMPORTED	BUILT		8.00	True	1942: 8" PCC PAVEMENT

Network: X60 **Branch**: RW 14-32 (RUNWAY 14-32) **Section:** 6250 **Surface:** AC
L.C.D.: 02/01/2015 **Use:** RUNWAY **Rank** P **Length:** 303.00 Ft **Width:** 100.00 Ft **True Area:** 15,631.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2015	CR-AC	Complete Reconstruction - AC	$0	0.00	True	FULL RECON. 2.5" P-401, 6" P-211, 12" P-160
01/01/1942	NU-IN	New Construction - Initial	$0	0.00	True	

Network: X60 **Branch**: RW 5-23 (RUNWAY 5-23) **Section:** 6110 **Surface:** PCC
L.C.D.: 01/01/1942 **Use:** RUNWAY **Rank** P **Length:** 600.00 Ft **Width:** 25.00 Ft **True Area:** 7,500.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1942	IMPORTED	BUILT		8.00	True	1942: 8" PCC PAVEMENT

Network: X60 **Branch**: RW 5-23 (RUNWAY 5-23) **Section:** 6112 **Surface:** APC
L.C.D.: 01/01/2006 **Use:** RUNWAY **Rank** P **Length:** 150.00 Ft **Width:** 100.00 Ft **True Area:** 15,000.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2006	OL-AS	Overlay - AC Structural	$0	0.00	True	
01/01/1942	NU-IN	New Construction - Initial	$0	0.00	True	

Network: X60 **Branch**: RW 5-23 (RUNWAY 5-23) **Section:** 6115 **Surface:** AAC
L.C.D.: 01/01/2005 **Use:** RUNWAY **Rank** P **Length:** 5,010.00 Ft **Width:** 75.00 Ft **True Area:** 500,000.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	OL-PCC	Overlay-PCC	$0	4.00	True	Whitetopping
01/01/1987	IMPORTED	OVERLAY			True	ESTIMATE 1987 AC OVERLAY
01/01/1942	IMPORTED	BUILT		2.00	True	1942: 2" AC ON 6" LIME ROCK BASE

Network: X60 **Branch**: RW 5-23 (RUNWAY 5-23) **Section:** 6125 **Surface:** AC
L.C.D.: 01/01/2005 **Use:** RUNWAY **Rank** P **Length:** 1,270.00 Ft **Width:** 100.00 Ft **True Area:** 130,000.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	OL-PCC	Overlay-PCC	$0	0.00	True	

01/01/1942	IMPORTED	BUILT		2.00	True	1942: 2" AC ON 6" LIME ROCK BASE

Network: X60 **Branch**: RW 5-23 (RUNWAY 5-23) **Section:** 6127 **Surface:** AC
L.C.D.: 01/01/2005 **Use:** RUNWAY **Rank** P **Length:** 150.00 Ft **Width:** 100.00 Ft **True Area:** 40,650.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	OL-PCC	Overlay-PCC	$0	0.00	True	
01/01/1942	IMPORTED	BUILT		2.00	True	1942: 2" AC ON 6" LIME ROCK BASE
01/01/1942	IMPORTED	OVERLAY			True	SLURRY SEAL/SAND SEAL ON

Network: X60 **Branch**: TW A (TAXIWAY A) **Section:** 205 **Surface:** AAC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 1,990.00 Ft **Width:** 35.00 Ft **True Area:** 159,607.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	ML-OV	Mill and Overlay	$0	0.00	True	1.5" MILL WITH 1.5" OVERLAY ALONG WITH TW WIDENING FROM 35' TO 50'
01/01/1986	IMPORTED	BUILT			True	ESTIMATE 1986 AC PAVEMENTT

Network: X60 **Branch**: TW A (TAXIWAY A) **Section:** 220 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 3,000.00 Ft **Width:** 50.00 Ft **True Area:** 287,885.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	4.00	True	4" P-401 ON 6" P-211 ON 12" P-160

Network: X60 **Branch**: TW A1 (TAXIWAY A1) **Section:** 255 **Surface:** AC
L.C.D.: 01/01/2013 **Use:** TAXIWAY **Rank** P **Length:** 600.00 Ft **Width:** 50.00 Ft **True Area:** 34,316.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2013	NU-IN	New Construction - Initial	$0	4.00	True	4" P-401 ON 6" P-211 ON 12" P-160

Network: X60 **Branch**: TW B (TAXIWAY B) **Section:** 305 **Surface:** AAC
L.C.D.: 01/01/2009 **Use:** TAXIWAY **Rank** P **Length:** 2,365.00 Ft **Width:** 35.00 Ft **True Area:** 101,923.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2009	ML-OV	MILL and OVERLAY	$0	0.00	True	
01/01/1942	IMPORTED	BUILT		2.00	True	1942: 2" AC ON 6" LIME ROCK BASE

Network: X60 **Branch**: TW C (TAXIWAY C) **Section:** 105 **Surface:** AAC
L.C.D.: 01/01/2009 **Use:** TAXIWAY **Rank** P **Length:** 1,174.00 Ft **Width:** 50.00 Ft **True Area:** 62,023.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2009	ML-OV	MILL and OVERLAY	$0	0.00	True	
01/01/1982	IMPORTED	OVERLAY			True	ESTIMATE 1982 AC OVERLAY
01/01/1942	IMPORTED	BUILT		2.00	True	1942: 2" AC ON 6" LIME ROCK BASE

Network: X60 **Branch**: TW C (TAXIWAY C) **Section:** 115 **Surface:** AAC
L.C.D.: 01/01/2009 **Use:** TAXIWAY **Rank** P **Length:** 416.00 Ft **Width:** 70.00 Ft **True Area:** 35,409.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2009	ML-OV	MILL and OVERLAY	$0	0.00	True	
01/01/1982	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: TW D (TAXIWAY D) **Section:** 505 **Surface:** AAC
L.C.D.: 01/01/2009 **Use:** TAXIWAY **Rank** P **Length:** 1,150.00 Ft **Width:** 25.00 Ft **True Area:** 70,293.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2009	ML-OV	MILL and OVERLAY	$0	0.00	True	
12/25/1999	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: TW D1 (TAXIWAY D-1) **Section:** 405 **Surface:** AAC
L.C.D.: 01/01/2009 **Use:** TAXIWAY **Rank** P **Length:** 1,384.00 Ft **Width:** 35.00 Ft **True Area:** 57,110.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2009	ML-OV	MILL and OVERLAY	$0	0.00	True	
01/01/1942	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: TW E (TAXIWAY E) **Section:** 705 **Surface:** AAC
L.C.D.: 01/01/2009 **Use:** TAXIWAY **Rank** P **Length:** 1,384.00 Ft **Width:** 35.00 Ft **True Area:** 55,768.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2009	ML-OV	MILL and OVERLAY	$0	0.00	True	
01/01/1942	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: TW F (TAXIWAY F) **Section:** 550 **Surface:** AC
L.C.D.: 01/01/1942 **Use:** TAXIWAY **Rank** P **Length:** 2,450.00 Ft **Width:** 75.00 Ft **True Area:** 128,837.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1942	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: TW F (TAXIWAY F) **Section:** 555 **Surface:** PCC
L.C.D.: 01/01/1942 **Use:** TAXIWAY **Rank** P **Length:** 150.00 Ft **Width:** 75.00 Ft **True Area:** 11,250.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1942	INITIAL	Initial Construction	$0	0.00	True	

Network: X60 **Branch**: TW F (TAXIWAY F) **Section:** 565 **Surface:** AC
L.C.D.: 02/01/2015 **Use:** TAXIWAY **Rank** P **Length:** 1,000.00 Ft **Width:** 35.00 Ft **True Area:** 33,640.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2015	NU-IN	New Construction - Initial	$0	0.00	True	2" FDOT SP-12.5, 8" LIMEROCK, 12" STAB. SUB

Network: X60 **Branch**: TW G (TAXIWAY G) **Section:** 450 **Surface:** AC
L.C.D.: 01/01/1942 **Use:** TAXIWAY **Rank** P **Length:** 1,173.00 Ft **Width:** 75.00 Ft **True Area:** 94,473.00 SqF

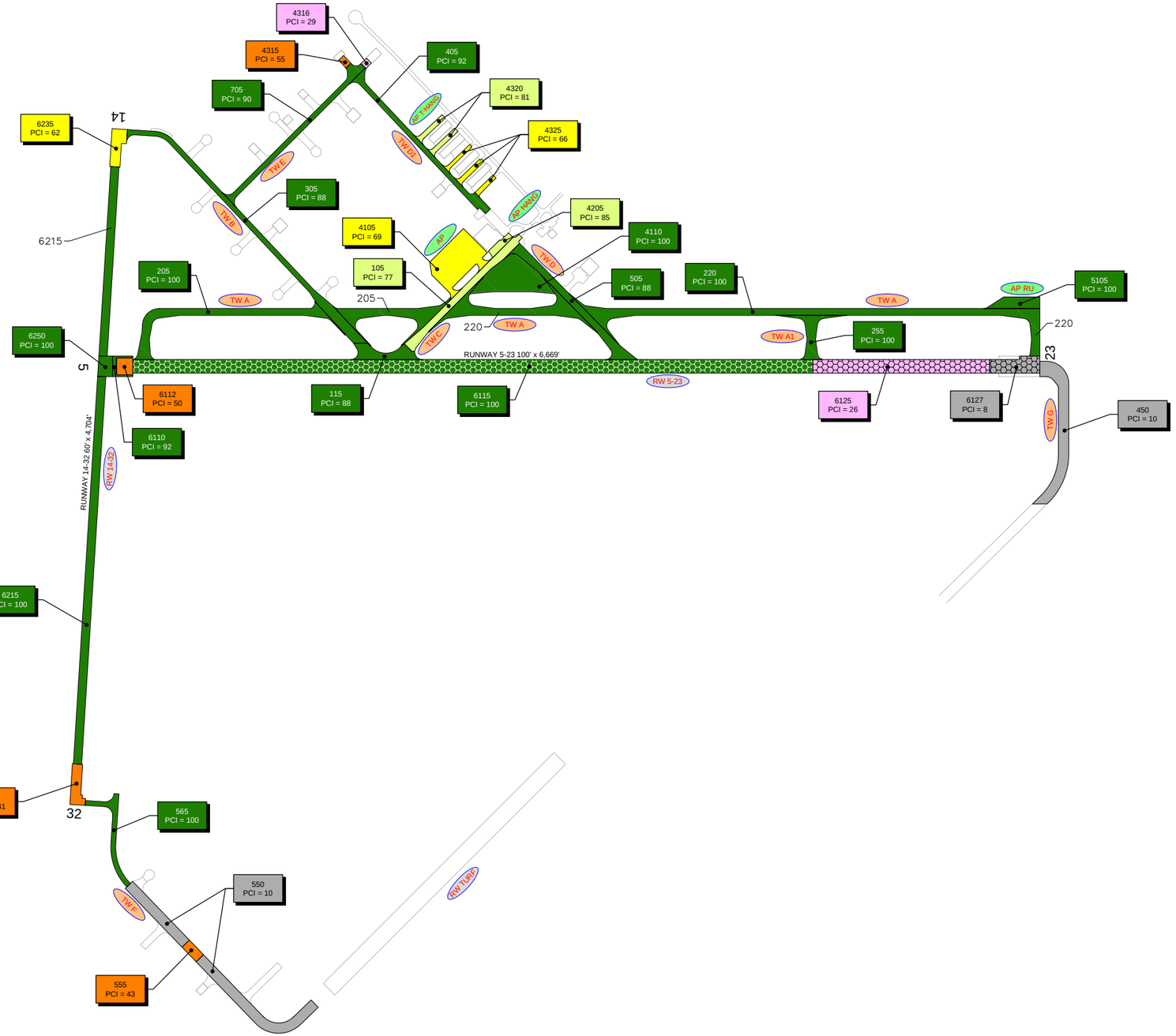
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1942	INITIAL	Initial Construction	$0	0.00	True	

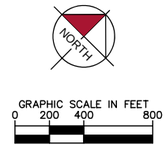
Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	12	1,423,050.00	3.80	2.90
Complete Reconstruction - AC	1	15,631.00	.00	
Initial Construction	10	497,493.00	.00	.00
Joint Seal	2	49,456.00	.00	.00
Mill and Overlay	10	914,024.00	.00	.00
New Construction - Initial	7	515,711.00	1.71	2.14
New Construction - PCC	1	2,867.00	.00	
OVERLAY	4	613,331.00		
Overlay - AC Structural	2	17,867.00	.00	.00
Overlay-PCC	3	670,650.00	1.33	2.31

APPENDIX B

- AIRFIELD PAVEMENT CONDITION INDEX RATING EXHIBIT
- PAVEMENT CONDITION INDEX INVENTORY





LEGEND

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

WHITETOPPING PAVEMENT	REMAINING AIRFIELD PAVEMENT
PCI 86–100	PCI 86–100 GOOD
PCI 71–85	PCI 71–85 SATISFACTORY
PCI 56–70	PCI 56–70 FAIR
PCI 41–55	PCI 41–55 POOR
PCI 26–40	PCI 26–40 VERY POOR
PCI 11–25	PCI 11–25 SERIOUS
PCI 0–10	PCI 0–10 FAILED

"SECTION NO."
"PCI NO."

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

NOTE: ALL PAVEMENTS COMPOSED OF 'WHITETOPPING PAVEMENT' AS IT IS A UNIQUE PAVEMENT TYPE THAT IS NOT ADDRESSED BY THE ASTM D 5340–12, PAVEMENT CONDITION INDEX DETERMINED FOR 'WHITETOPPING PAVEMENTS' ARE BASED ON A DIFFERENT METHODOLOGY AND THEREFORE IS ANALYZED SEPARATE FROM THE REMAINING AIRFIELD PAVEMENTS.

NUMBER	DATE	REVISIONS

DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2015

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

FDOT

AIRFIELD PAVEMENT CONDITION INDEX RATING EXHIBIT

WILLISTON MUNICIPAL AIRPORT
LEVY COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: X60

FDOT DISTRICT: 2

Table B-1: Pavement Condition Index Inventory

Branch Name	Branch ID	Branch Use	Section ID	True Area (FT^2)	Section Rank	Surface Type	PCI	PCI Category	Total Inspection Samples	Total Samples
RUNWAY 14-32	RW 14-32	RUNWAY	6250	15,631	P	AC	100	Good	1	4
RUNWAY 14-32	RW 14-32	RUNWAY	6235	24,769	P	PCC	62	Fair	2	6
RUNWAY 14-32	RW 14-32	RUNWAY	6215	254,982	P	AAC	100	Good	10	43
RUNWAY 14-32	RW 14-32	RUNWAY	6205	24,687	P	PCC	41	Poor	2	6
RUNWAY 5-23	RW 5-23	RUNWAY	6112	15,000	P	APC	50	Poor	1	3
RUNWAY 5-23	RW 5-23	RUNWAY	6110	7,500	P	PCC	92	Good	2	3
RUN-UP APRON	AP RU	APRON	5105	28,165	P	AC	100	Good	1	6
APRON AT T-HANGARS	AP T-HANG	APRON	4325	21,796	P	AC	66	Fair	1	6
APRON AT T-HANGARS	AP T-HANG	APRON	4320	18,657	P	AC	81	Satisfactory	1	6
APRON AT T-HANGARS	AP T-HANG	APRON	4316	2,867	P	APC	29	Very Poor	1	1
APRON AT T-HANGARS	AP T-HANG	APRON	4315	3,900	P	AC	55	Poor	1	1
HANGAR APRON	AP HANG	APRON	4205	10,658	P	AAC	85	Satisfactory	1	2
APRON	AP	APRON	4110	101,074	P	AC	100	Good	3	21
APRON	AP	APRON	4105	106,251	P	AAC	69	Fair	3	22
TAXIWAY E	TW E	TAXIWAY	705	55,768	P	AAC	90	Good	3	15
TAXIWAY F	TW F	TAXIWAY	565	33,640	P	AC	100	Good	2	9
TAXIWAY F	TW F	TAXIWAY	555	11,250	P	PCC	43	Poor	1	3
TAXIWAY F	TW F	TAXIWAY	550	128,837	P	AC	10	Failed	4	34
TAXIWAY D	TW D	TAXIWAY	505	70,293	P	AAC	88	Good	2	12
TAXIWAY G	TW G	TAXIWAY	450	94,473	P	AC	10	Failed	3	24
TAXIWAY D-1	TW D1	TAXIWAY	405	57,110	P	AAC	92	Good	2	15
TAXIWAY B	TW B	TAXIWAY	305	101,923	P	AAC	88	Good	4	29

Branch Name	Branch ID	Branch Use	Section ID	True Area (FT^2)	Section Rank	Surface Type	PCI	PCI Category	Total Inspection Samples	Total Samples
TAXIWAY A1	TW A1	TAXIWAY	255	34,316	P	AC	100	Good	1	7
TAXIWAY A	TW A	TAXIWAY	220	287,885	P	AC	100	Good	6	58
TAXIWAY A	TW A	TAXIWAY	205	159,607	P	AAC	100	Good	4	32
TAXIWAY C	TW C	TAXIWAY	115	35,409	P	AAC	88	Good	1	8
TAXIWAY C	TW C	TAXIWAY	105	62,023	P	AAC	77	Satisfactory	2	12
WHITETOPPING PAVEMENT SECTIONS (NON-ASTM PCI)										
RUNWAY 5-23	*RW 5-23*	*RUNWAY*	*6127*	*36,900*	*P*	*WT*	*83*	-	*4*	*8*
RUNWAY 5-23	*RW 5-23*	*RUNWAY*	*6125*	*130,000*	*P*	*WT*	*86*	-	*7*	*26*
RUNWAY 5-23	*RW 5-23*	*RUNWAY*	*6115*	*500,000*	*P*	*WT*	*83*	-	*20*	*100*

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.

** Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey. Please refer to Section 3 for discussion on the updates to the ASTM D 5640 that may affect PCI in comparison to previous program update.*

APPENDIX C

- BRANCH CONDITION REPORT
- SECTION CONDITION REPORT

Date: 5 /16/2015

Branch Condition Report

Pavement Database: FDOT NetworkID: X60

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
AP (APRON)	2	1,390.00	177.50	207,325.00	APRON	84.50	15.50	84.11
AP HANG (HANGAR APRON)	1	180.00	20.00	10,658.00	APRON	85.00	0.00	85.00
AP RU (RUN-UP APRON)	1	400.00	50.00	28,165.00	APRON	100.00	0.00	100.00
AP T-HANG (APRON AT T-HANGARS)	4	1,361.00	42.50	47,220.00	APRON	57.75	18.99	68.77
RW 14-32 (RUNWAY 14-32)	4	5,206.00	100.00	320,069.00	RUNWAY	75.75	25.36	92.51
RW 5-23 (RUNWAY 5-23)	2	750.00	62.50	22,500.00	RUNWAY	71.00	21.00	64.00
TW A (TAXIWAY A)	2	4,990.00	42.50	447,492.00	TAXIWAY	100.00	0.00	100.00
TW A1 (TAXIWAY A1)	1	600.00	50.00	34,316.00	TAXIWAY	100.00	0.00	100.00
TW B (TAXIWAY B)	1	2,365.00	35.00	101,923.00	TAXIWAY	88.00	0.00	88.00
TW C (TAXIWAY C)	2	1,590.00	60.00	97,432.00	TAXIWAY	82.50	5.50	81.00
TW D (TAXIWAY D)	1	1,150.00	25.00	70,293.00	TAXIWAY	88.00	0.00	88.00
TW D1 (TAXIWAY D-1)	1	1,384.00	35.00	57,110.00	TAXIWAY	92.00	0.00	92.00
TW E (TAXIWAY E)	1	1,384.00	35.00	55,768.00	TAXIWAY	90.00	0.00	90.00
TW F (TAXIWAY F)	3	3,600.00	61.67	173,727.00	TAXIWAY	51.00	37.18	29.56
TW G (TAXIWAY G)	1	1,173.00	75.00	94,473.00	TAXIWAY	10.00	0.00	10.00

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	8	293,368.00	73.13	22.34	83.20
RUNWAY	6	342,569.00	74.17	24.10	90.64
TAXIWAY	13	1,132,534.00	75.85	31.61	77.33
All	27	1,768,471.00	74.67	27.56	80.88

Date: 5 /16/2015

Section Condition Report

Pavement Database: FDOT NetworkID: X60

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
AP (APRON)	4105	01/01/2009	AAC	APRON	P	0	106,251.00	01/21/2015	6	69.00
AP (APRON)	4110	02/01/2015	AC	APRON	P	0	101,074.00	02/01/2015	0	100.00
AP HANG (HANGAR APRON)	4205	01/01/2009	AAC	APRON	P	0	10,658.00	01/21/2015	6	85.00
AP RU (RUN-UP APRON)	5105	01/01/2013	AC	APRON	P	0	28,165.00	01/01/2013	0	100.00
AP T-HANG (APRON AT T-HANGARS)	4315	01/01/1986	AC	APRON	P	0	3,900.00	01/21/2015	29	55.00
AP T-HANG (APRON AT T-HANGARS)	4316	01/01/2003	APC	APRON	P	0	2,867.00	01/21/2015	12	29.00
AP T-HANG (APRON AT T-HANGARS)	4320	01/01/2005	AC	APRON	P	0	18,657.00	01/21/2015	10	81.00
AP T-HANG (APRON AT T-HANGARS)	4325	01/01/2003	AC	APRON	P	0	21,796.00	01/21/2015	12	66.00
RW 14-32 (RUNWAY 14-32)	6205	01/01/1942	PCC	RUNWAY	P	0	24,687.00	02/14/2012	70	41.00
RW 14-32 (RUNWAY 14-32)	6215	02/01/2015	AAC	RUNWAY	P	0	254,982.00	02/01/2015	0	100.00
RW 14-32 (RUNWAY 14-32)	6235	01/01/1942	PCC	RUNWAY	P	0	24,769.00	02/14/2012	70	62.00
RW 14-32 (RUNWAY 14-32)	6250	02/01/2015	AC	RUNWAY	P	0	15,631.00	02/01/2015	0	100.00
RW 5-23 (RUNWAY 5-23)	6110	01/01/1942	PCC	RUNWAY	P	0	7,500.00	01/21/2015	73	92.00
RW 5-23 (RUNWAY 5-23)	6112	01/01/2006	APC	RUNWAY	P	0	15,000.00	01/21/2015	9	50.00
TW A (TAXIWAY A)	205	01/01/2013	AAC	TAXIWAY	P	0	159,607.00	01/01/2013	0	100.00
TW A (TAXIWAY A)	220	01/01/2013	AC	TAXIWAY	P	0	287,885.00	01/01/2013	0	100.00
TW A1 (TAXIWAY A1)	255	01/01/2013	AC	TAXIWAY	P	0	34,316.00	01/01/2013	0	100.00
TW B (TAXIWAY B)	305	01/01/2009	AAC	TAXIWAY	P	0	101,923.00	01/21/2015	6	88.00
TW C (TAXIWAY C)	105	01/01/2009	AAC	TAXIWAY	P	0	62,023.00	01/21/2015	6	77.00
TW C (TAXIWAY C)	115	01/01/2009	AAC	TAXIWAY	P	0	35,409.00	01/21/2015	6	88.00
TW D (TAXIWAY D)	505	01/01/2009	AAC	TAXIWAY	P	0	70,293.00	01/21/2015	6	88.00
TW D1 (TAXIWAY D-1)	405	01/01/2009	AAC	TAXIWAY	P	0	57,110.00	01/21/2015	6	92.00
TW E (TAXIWAY E)	705	01/01/2009	AAC	TAXIWAY	P	0	55,768.00	01/21/2015	6	90.00
TW F (TAXIWAY F)	550	01/01/1942	AC	TAXIWAY	P	0	128,837.00	01/21/2015	73	10.00
TW F (TAXIWAY F)	555	01/01/1942	PCC	TAXIWAY	P	0	11,250.00	01/21/2015	73	43.00
TW F (TAXIWAY F)	565	02/01/2015	AC	TAXIWAY	P	0	33,640.00	02/01/2015	0	100.00

Date: 5 /16/2015

Section Condition Report

Pavement Database: FDOT *NetworkID: X60*

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
TW G (TAXIWAY G)	450	01/01/1942	AC	TAXIWAY	P	0	94,473.00	01/21/2015	73	10.00

Section Condition Report

Pavement Database: FDOT

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
0-02	**0.00**	**915,300.00**	**8**	**100.00**	**0.00**	**100.00**
06-10	**6.70**	**533,092.00**	**10**	**80.80**	**12.85**	**82.20**
11-15	**12.00**	**24,663.00**	**2**	**47.50**	**26.16**	**61.70**
26-30	**29.00**	**3,900.00**	**1**	**55.00**	**0.00**	**55.00**
over 40	**72.00**	**291,516.00**	**6**	**43.00**	**31.45**	**20.43**
All	**20.44**	**1,768,471.00**	**27**	**74.67**	**28.08**	**80.88**

APPENDIX D

- PAVEMENT PERFORMANCE PREDICTION
- PAVEMENT PERFORMANCE BY PAVEMENT USE

Table D-1: Pavement Performance Prediction

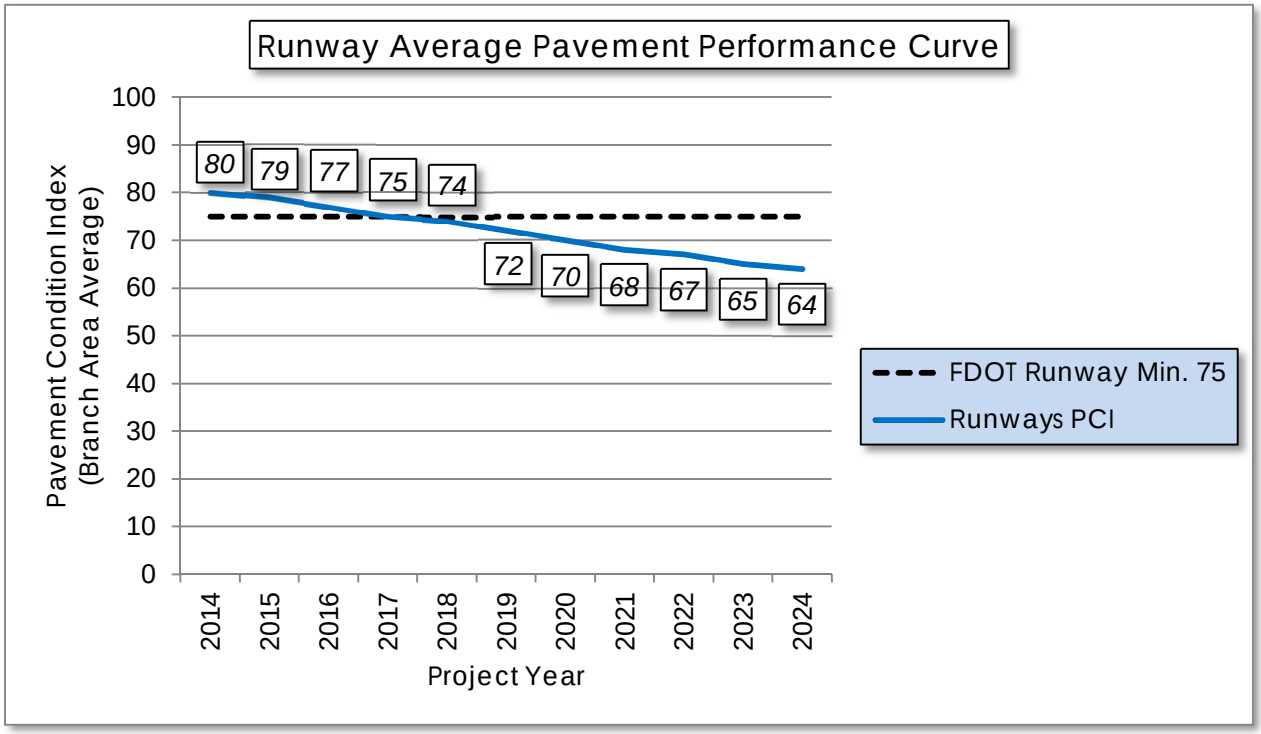
Branch ID	Section ID	Current PCI	Pavement Performance Model - PCI									
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
AP	4105	69	68	67	65	64	63	62	61	60	59	59
AP	4110	100	98	93	88	84	81	78	76	74	72	71
AP HANG	4205	85	84	81	79	76	74	72	70	68	67	65
AP RU	5105	100	88	84	81	78	76	74	72	71	70	69
AP T-HANG	4315	55	55	54	53	52	51	50	49	48	47	47
AP T-HANG	4316	29	28	26	24	23	21	19	17	15	13	11
AP T-HANG	4320	81	80	77	75	73	72	71	69	68	68	67
AP T-HANG	4325	66	66	65	64	64	63	62	62	61	60	59
RW 14-32	6205	41	40	39	39	38	38	37	37	36	36	35
RW 14-32	6215	100	99	96	94	91	88	85	82	80	77	75
RW 14-32	6235	62	57	55	54	53	52	51	51	50	50	49
RW 14-32	6250	100	99	97	95	93	91	89	87	85	83	81
RW 5-23	6110	92	91	88	85	83	80	77	74	72	69	67
RW 5-23	6112	50	50	48	47	45	44	43	41	40	38	37
TW A	205	100	92	89	87	85	83	81	80	78	77	76
TW A	220	100	93	91	88	86	83	81	79	77	75	73
TW A1	255	100	93	91	88	86	83	81	79	77	75	73
TW B	305	88	87	85	83	81	80	78	77	76	74	73
TW C	105	77	77	75	74	73	71	70	69	68	67	66
TW C	115	88	87	85	83	81	80	78	77	76	74	73
TW D	505	88	87	85	82	80	78	76	74	73	71	70
TW D1	405	92	91	89	86	84	82	81	79	78	76	75
TW E	705	90	89	87	85	83	81	80	78	77	75	74
TW F	550	10	10	10	10	10	10	10	10	10	10	10
TW F	555	43	43	42	42	41	41	41	40	40	39	39
TW F	565	100	99	96	94	91	88	86	83	81	79	77
TW G	450	10	10	10	10	10	10	10	10	10	10	10

Note: If new construction, then survey date = last construction date and PCI is set to 100 by MicroPAVER.

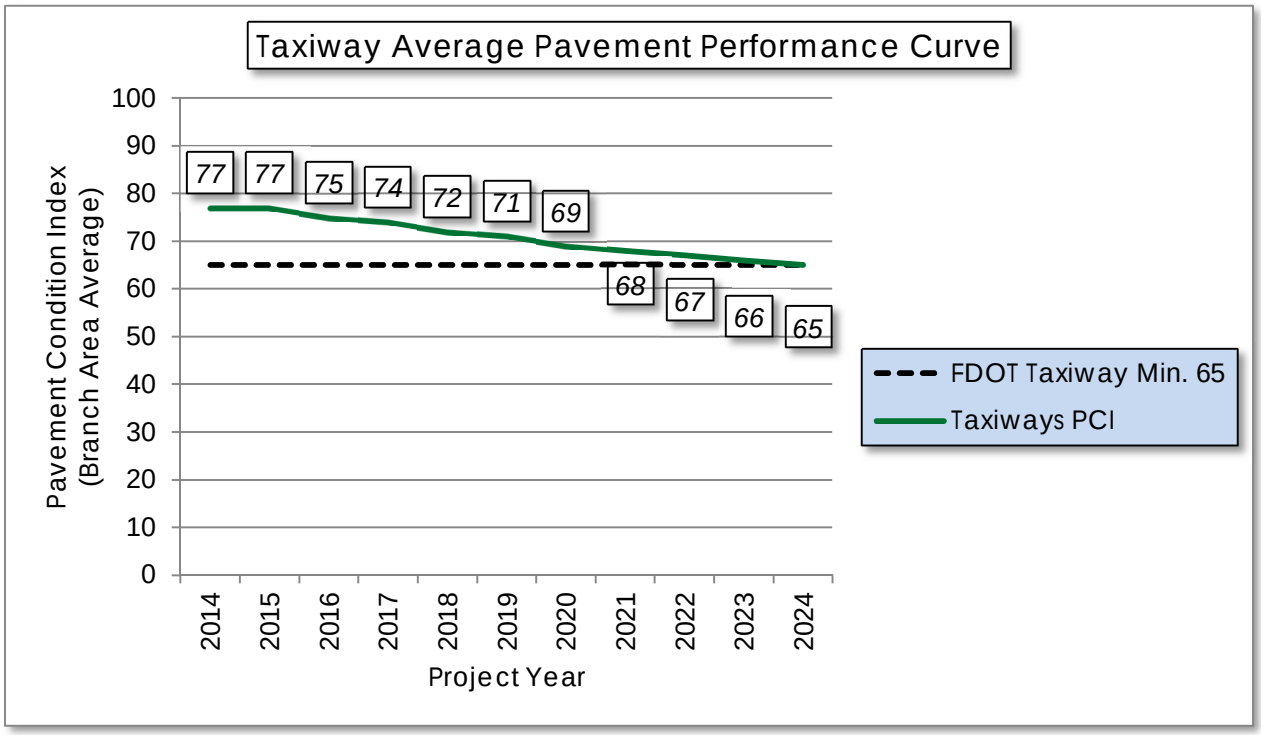
** Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey. Please refer to Section 3 for discussion on the updates to the ASTM D 5640 that may affect PCI in comparison to previous program update.*

Figure D-1: Pavement Performance by Pavement Use

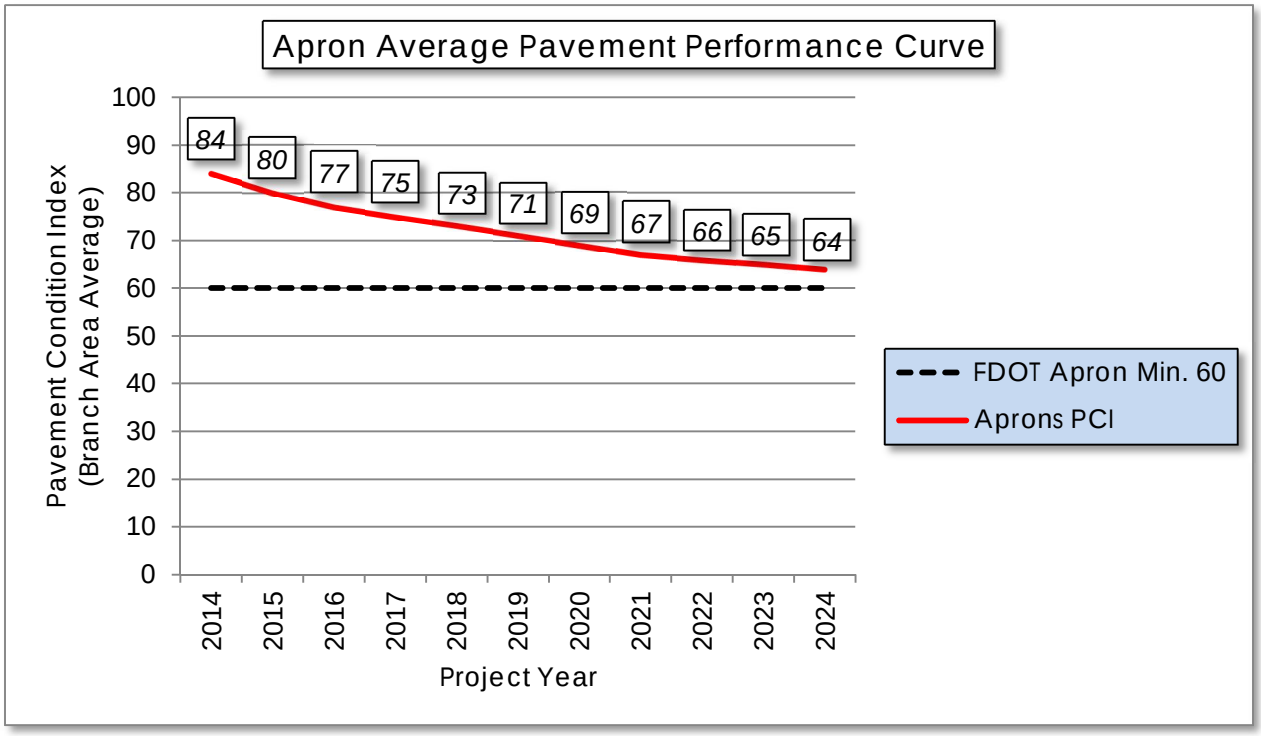
(a) Runway



(b) Taxiway



(c) Apron


Apron Average Pavement Performance Curve
Pavement Condition Index (Branch Area Average)
100
90
80
70
60
50
40
30
20
10
0
84
80
77
75
73
71
69
67
66
65
64
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
Project Year
FDOT Apron Min. 60
Aprons PCI

APPENDIX E

- YEAR-1 PREVENTATIVE ACTIVITIES

Table E-1: Year-1 Preventative Activities

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
APRON	AP	4105	BLEEDING	N	Patching - AC Partial Depth	56.70	SqFt	$3.00	$ 170.00
APRON	AP	4105	L & T CR	L	Crack Sealing - AC	2,507.50	Ft	$2.75	$ 6,895.68
APRON	AP	4105	OIL SPILLAGE	N	Surface Seal	151.70	SqFt	$0.55	$ 83.46
APRON	AP	4105	RAVELING	L	Surface Seal	2,188.80	SqFt	$0.55	$ 1,203.83
HANGAR APRON	AP HANG	4205	BLEEDING	N	Patching - AC Partial Depth	1.90	SqFt	$3.00	$ 5.60
HANGAR APRON	AP HANG	4205	L & T CR	L	Crack Sealing - AC	56.00	Ft	$2.75	$ 154.10
HANGAR APRON	AP HANG	4205	RAVELING	L	Surface Seal	158.80	SqFt	$0.55	$ 87.32
APRON AT T-HANGARS	AP T-HANG	4315	L & T CR	L	Crack Sealing - AC	415.00	Ft	$2.75	$ 1,141.25
APRON AT T-HANGARS	AP T-HANG	4315	OIL SPILLAGE	N	Surface Seal	11.70	SqFt	$0.55	$ 6.43
APRON AT T-HANGARS	AP T-HANG	4315	RAVELING	M	Surface Seal	390.00	SqFt	$0.55	$ 214.50
APRON AT T-HANGARS	AP T-HANG	4315	RAVELING	L	Surface Seal	3,510.00	SqFt	$0.55	$ 1,930.52
APRON AT T-HANGARS	AP T-HANG	4316	BLOCK CR	M	Patching - AC Full Depth	1,705.00	SqFt	$5.00	$ 8,525.01
APRON AT T-HANGARS	AP T-HANG	4316	DEPRESSION	L	Patching - AC Full Depth	61.50	SqFt	$5.00	$ 307.35
APRON AT T-HANGARS	AP T-HANG	4316	JT REF. CR	M	Crack Sealing - AC	150.00	Ft	$2.75	$ 412.50
APRON AT T-HANGARS	AP T-HANG	4316	JT REF. CR	L	Crack Sealing - AC	63.00	Ft	$2.75	$ 173.25

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
APRON AT T-HANGARS	AP T-HANG	4316	L & T CR	L	Crack Sealing - AC	22.00	Ft	$2.75	$ 60.50
APRON AT T-HANGARS	AP T-HANG	4316	L & T CR	M	Crack Sealing - AC	84.00	Ft	$2.75	$ 231.00
APRON AT T-HANGARS	AP T-HANG	4316	RAVELING	L	Surface Seal	287.00	SqFt	$0.55	$ 157.85
APRON AT T-HANGARS	AP T-HANG	4320	L & T CR	L	Crack Sealing - AC	490.40	Ft	$2.75	$ 1,348.63
APRON AT T-HANGARS	AP T-HANG	4320	RAVELING	L	Surface Seal	533.10	SqFt	$0.55	$ 293.18
APRON AT T-HANGARS	AP T-HANG	4325	L & T CR	L	Crack Sealing - AC	54.40	Ft	$2.75	$ 149.52
APRON AT T-HANGARS	AP T-HANG	4325	RAVELING	L	Surface Seal	20,708.60	SqFt	$0.55	$ 11,389.81
APRON AT T-HANGARS	AP T-HANG	4325	RAVELING	M	Surface Seal	1,087.40	SqFt	$0.55	$ 598.09
RUNWAY 14-32	RW 14-32	6205	JT SEAL DMG	H	Joint Seal - PCC	3,565.00	Ft	$3.00	$ 10,694.87
RUNWAY 14-32	RW 14-32	6205	JT SEAL DMG	M	Joint Seal - PCC	0.00	Ft	$3.00	$ -
RUNWAY 14-32	RW 14-32	6205	SCALING	L	Patching - PCC Partial Depth	6,508.50	SqFt	$19.10	$ 124,312.28
RUNWAY 14-32	RW 14-32	6205	SHRINKAGE CR	L	Crack Sealing - PCC	16.40	Ft	$4.25	$ 69.88
RUNWAY 14-32	RW 14-32	6205	JOINT SPALL	H	Patching - PCC Partial Depth	27.00	SqFt	$19.10	$ 515.18
RUNWAY 14-32	RW 14-32	6205	JOINT SPALL	L	Patching - PCC Partial Depth	9.00	SqFt	$19.10	$ 171.73
RUNWAY 14-32	RW 14-32	6205	JOINT SPALL	M	Patching - PCC Partial Depth	64.70	SqFt	$19.10	$ 1,236.43
RUNWAY 14-32	RW 14-32	6205	CORNER SPALL	L	Patching - PCC Partial Depth	9.00	SqFt	$19.10	$ 171.73

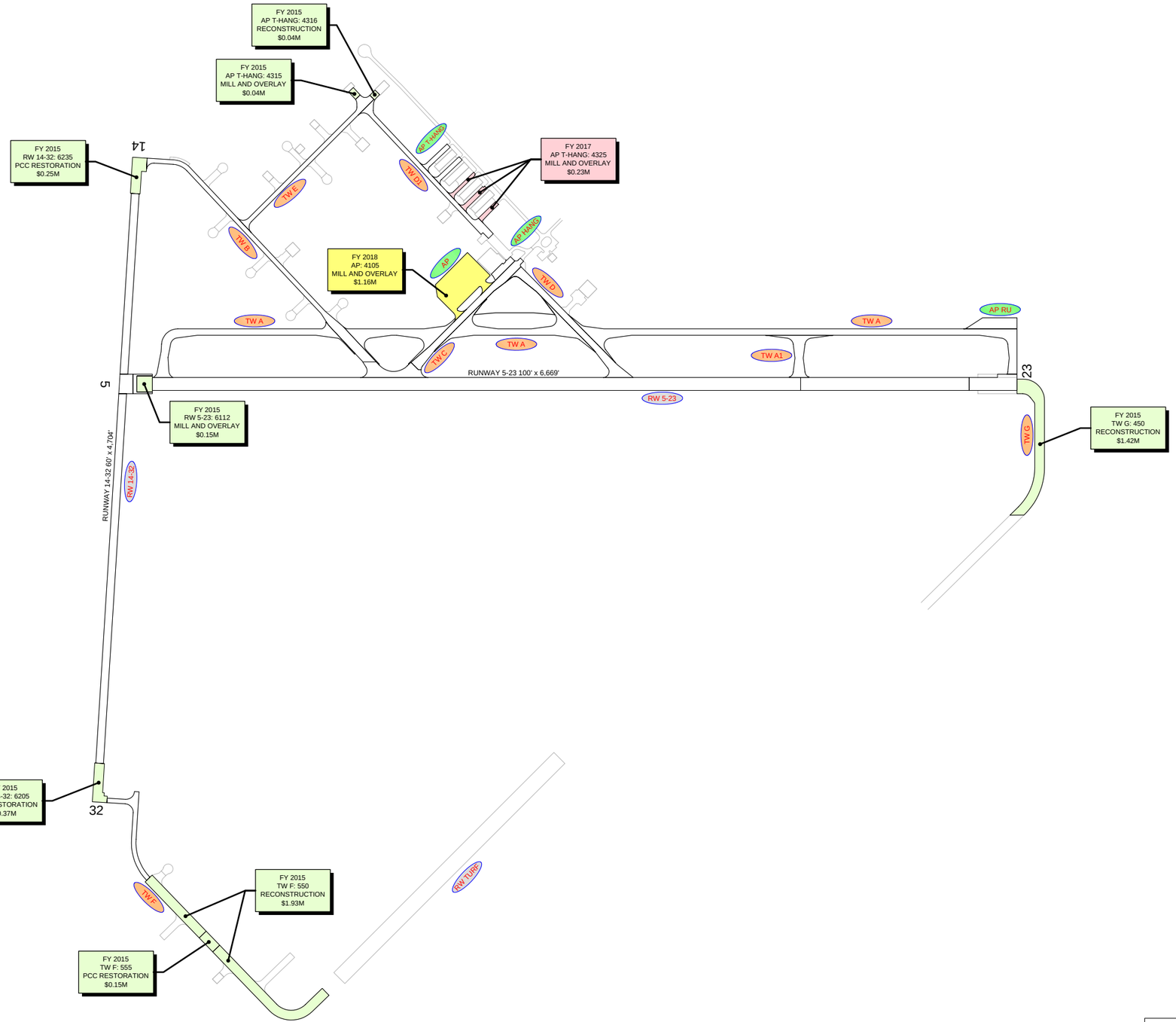
Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
RUNWAY 14-32	RW 14-32	6235	JT SEAL DMG	H	Joint Seal - PCC	3,527.10	Ft	$3.00	$ 10,581.22
RUNWAY 14-32	RW 14-32	6235	SCALING	L	Patching - PCC Partial Depth	5,085.30	SqFt	$19.10	$ 97,128.46
RUNWAY 14-32	RW 14-32	6235	JOINT SPALL	M	Patching - PCC Partial Depth	42.70	SqFt	$19.10	$ 815.78
RUNWAY 14-32	RW 14-32	6235	JOINT SPALL	L	Patching - PCC Partial Depth	35.60	SqFt	$19.10	$ 679.81
RUNWAY 14-32	RW 14-32	6235	CORNER SPALL	L	Patching - PCC Partial Depth	17.80	SqFt	$19.10	$ 339.91
RUNWAY 5-23	RW 5-23	6110	JT SEAL DMG	L	Joint Seal - PCC	451.90	Ft	$3.00	$ 1,355.77
RUNWAY 5-23	RW 5-23	6110	CORNER SPALL	L	Patching - PCC Partial Depth	5.00	SqFt	$19.10	$ 94.89
RUNWAY 5-23	RW 5-23	6112	JT REF. CR	L	Crack Sealing - AC	474.00	Ft	$2.75	$ 1,303.50
RUNWAY 5-23	RW 5-23	6112	JT REF. CR	M	Crack Sealing - AC	900.00	Ft	$2.75	$ 2,475.00
RUNWAY 5-23	RW 5-23	6112	L & T CR	L	Crack Sealing - AC	378.00	Ft	$2.75	$ 1,039.50
RUNWAY 5-23	RW 5-23	6112	RAVELING	L	Surface Seal	1,500.00	SqFt	$0.55	$ 825.01
TAXIWAY BRAVO	TW B	305	L & T CR	L	Crack Sealing - AC	434.80	Ft	$2.75	$ 1,195.72
TAXIWAY BRAVO	TW B	305	RAVELING	L	Surface Seal	2,765.70	SqFt	$0.55	$ 1,521.12
TAXIWAY CHARLIE	TW C	105	DEPRESSION	L	Patching - AC Full Depth	62.70	SqFt	$5.00	$ 313.65
TAXIWAY CHARLIE	TW C	105	L & T CR	L	Crack Sealing - AC	1,677.10	Ft	$2.75	$ 4,611.98
TAXIWAY CHARLIE	TW C	105	RAVELING	L	Surface Seal	1,939.10	SqFt	$0.55	$ 1,066.53

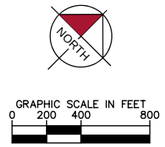
Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY CHARLIE	TW C	115	RAVELING	L	Surface Seal	1,768.30	SqFt	$0.55	$ 972.55
TAXIWAY DELTA	TW D	505	RAVELING	L	Surface Seal	3,514.70	SqFt	$0.55	$ 1,933.07
TAXIWAY D1	TW D1	405	L & T CR	L	Crack Sealing - AC	187.60	Ft	$2.75	$ 516.03
TAXIWAY ECHO	TW E	705	L & T CR	L	Crack Sealing - AC	159.30	Ft	$2.75	$ 438.18
TAXIWAY ECHO	TW E	705	RAVELING	L	Surface Seal	796.70	SqFt	$0.55	$ 438.18
TAXIWAY FOXTROT	TW F	550	BLOCK CR	H	Patching - AC Full Depth	20,428.50	SqFt	$5.00	$ 102,142.68
TAXIWAY FOXTROT	TW F	550	BLOCK CR	M	Patching - AC Full Depth	108,408.50	SqFt	$5.00	$ 542,042.89
TAXIWAY FOXTROT	TW F	550	DEPRESSION	M	Patching - AC Full Depth	934.40	SqFt	$5.00	$ 4,671.79
TAXIWAY FOXTROT	TW F	550	DEPRESSION	L	Patching - AC Full Depth	582.30	SqFt	$5.00	$ 2,911.41
TAXIWAY FOXTROT	TW F	550	RAVELING	H	Patching - AC Partial Depth	128,837.00	SqFt	$3.00	$ 386,510.63
TAXIWAY FOXTROT	TW F	550	RUTTING	L	Patching - AC Full Depth	334.80	SqFt	$5.00	$ 1,673.77
TAXIWAY FOXTROT	TW F	555	JT SEAL DMG	H	Joint Seal - PCC	1,125.00	Ft	$3.00	$ 3,374.99
TAXIWAY FOXTROT	TW F	555	SCALING	L	Patching - PCC Partial Depth	1,537.90	SqFt	$19.10	$ 29,373.77
TAXIWAY GOLF	TW G	450	BLOCK CR	M	Patching - AC Full Depth	83,891.10	SqFt	$5.00	$ 419,455.94
TAXIWAY GOLF	TW G	450	BLOCK CR	H	Patching - AC Full Depth	10,289.30	SqFt	$5.00	$ 51,446.54
TAXIWAY GOLF	TW G	450	PATCHING	H	Patching - AC Full Depth	365.40	SqFt	$5.00	$ 1,827.17

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY GOLF	TW G	450	RAVELING	H	Patching - AC Partial Depth	94,180.40	SqFt	$3.00	$ 282,540.97
								Total =	$ 2,130,329.89

APPENDIX F

- AIRFIELD PAVEMENT 10-YEAR MAJOR REHABILITATION EXHIBIT
- AIRFIELD PAVEMENT 10-YEAR MAJOR REHABILITATION TABLE





LEGEND

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

PROGRAM YEAR

2015	2020
2016	2021
2017	2022
2018	2023
2019	2024

"PROGRAM YEAR"
"BRANCH":"SECTION"
"REHAB ACTIVITY"
"EST. COST"

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

NOTE: ALL PAVEMENTS COMPOSED OF 'WHITETOPPING PAVEMENT' AS IT IS A UNIQUE PAVEMENT TYPE THAT IS NOT ADDRESSED BY THE ASTM D 5340–12. PAVEMENT CONDITION INDEX DETERMINED FOR 'WHITETOPPING PAVEMENTS' ARE BASED ON A DIFFERENT METHODOLOGY AND THEREFORE IS ANALYZED SEPARATE FROM THE REMAINING AIRFIELD PAVEMENTS. NO PREVENTATIVE MAINTENANCE OR MAJOR REHABILITATION WAS IDENTIFIED FOR 'WHITETOPPING PAVEMENT' SECTIONS

NUMBER	DATE	REVISIONS

DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2015

K:\AVN_Aviation\141790227\ADO\PLANSHEETS\X60 – WILLISTON MUNICIPAL AIRPORT\EXHIBITS\X04-180-REHAB.dwg PLOTTED: May 27, 2015 – 11:06 AM, BY: Rehva, Art

OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

AIRFIELD PAVEMENT 10-YEAR MAJOR REHABILITATION EXHIBIT

WILLISTON MUNICIPAL AIRPORT
LEVY COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: X60
FDOT DISTRICT: 2

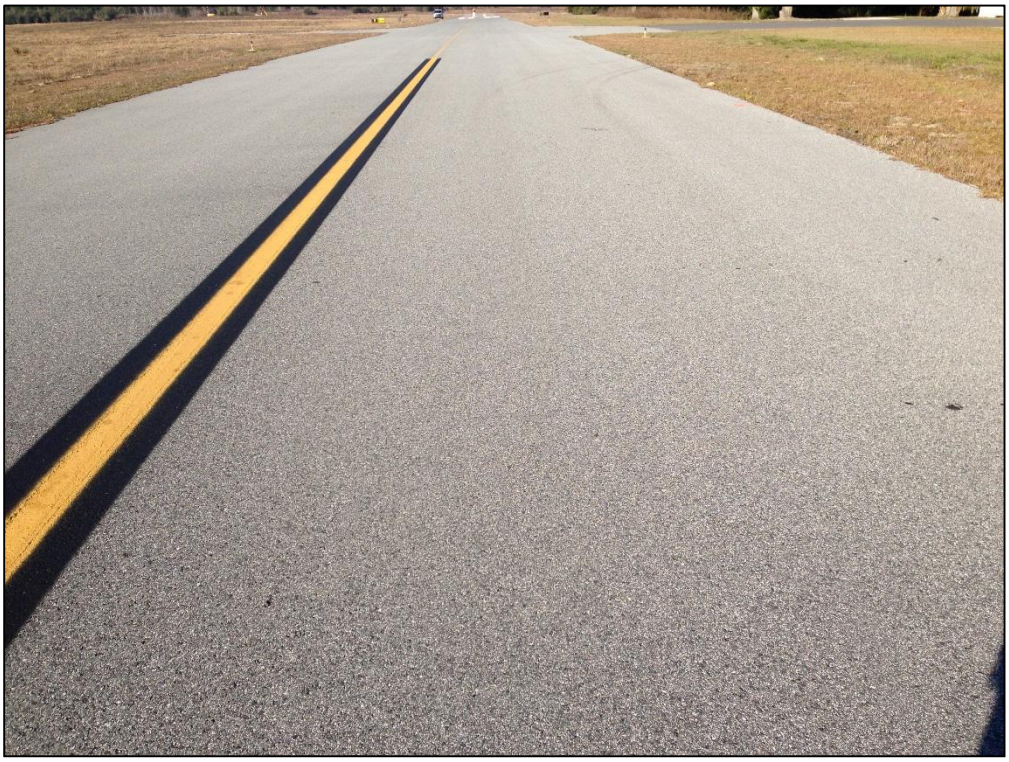
Table F-1: Airfield Pavement 10-Year Major Rehabilitation Table

Year	Branch ID	Section ID	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
2015	AP T-HANG	4315	$ 39,000.00	55	Mill and Overlay	100
2015	AP T-HANG	4316	$ 43,005.00	28	Reconstruction	100
2015	RW 14-32	6205	$ 370,305.00	40	PCC Restoration	100
2015	RW 14-32	6235	$ 247,690.00	57	PCC Restoration	100
2015	RW 5-23	6112	$ 153,675.00	50	Mill and Overlay	100
2015	TW F	550	$ 1,932,555.00	10	Reconstruction	100
2015	TW F	555	$ 152,775.00	43	PCC Restoration	100
2015	TW G	450	$ 1,417,095.00	10	Reconstruction	100
2017	AP T-HANG	4325	$ 231,234.00	65	Mill and Overlay	100
2018	AP	4105	$ 1,161,033.00	65	Mill and Overlay	100
		Total =	$ 5,748,367.00			

** Costs are adjusted for inflation AT 3%*

APPENDIX G

- PHOTOGRAPHS



Taxiway Bravo, Section 305, Sample Unit 130 – Low Severity (57) Weathering

Taxiway Charlie, Section 105, Sample Unit 101 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (56) Swelling, Low Severity (57) Weathering

Taxiway Foxtrot, Section 550, Sample Unit 145 – Medium Severity (43) Block Cracking, High Severity (52) Raveling

Taxiway Golf, Section 450, Sample Unit 105 – Medium Severity (43) Block Cracking, High Severity (52) Raveling

Apron T-Hangars, Section 4315, Sample Unit 100 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling

Apron, Section 4105, Sample Unit 300 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (56) Swelling, Low Severity (57) Weathering

APPENDIX H

- DISTRESS DATA – RE-INSPECTION REPORT

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: AP Name: APRON Use: APRON Area: 207,325.00SqFt

Section: 4105 of 2 From: - To: - Last Const.: 01/01/2009

Surface: AAC Family: FDOT-SAPMP-GA-AP-AAC Zone: Category: Rank: P

Area: 106,251.00SqFt Length: 390.00Ft Width: 255.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 22 Surveyed: 3

Conditions: PCI : 69

Inspection Comments:

Sample Number: 102 Type: R Area: 5,000.00SqFt PCI = 68

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	83.00 Ft	Comments:
56	SWELLING	L	500.00 SqFt	Comments:
52	RAVELING	L	50.00 SqFt	Comments:
57	WEATHERING	L	4,950.00 SqFt	Comments:
49	OIL SPILLAGE	N	6.00 SqFt	Comments:
42	BLEEDING	N	1.00 SqFt	Comments:
49	OIL SPILLAGE	N	9.00 SqFt	Comments:

Sample Number: 300 Type: R Area: 5,000.00SqFt PCI = 66

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	185.00 Ft	Comments:
56	SWELLING	L	700.00 SqFt	Comments:
42	BLEEDING	N	6.00 SqFt	Comments:
52	RAVELING	L	100.00 SqFt	Comments:
57	WEATHERING	L	4,900.00 SqFt	Comments:

Sample Number: 401 Type: R Area: 5,000.00SqFt PCI = 73

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	86.00 Ft	Comments:
56	SWELLING	L	300.00 SqFt	Comments:
52	RAVELING	L	159.00 SqFt	Comments:
42	BLEEDING	N	1.00 SqFt	Comments:
57	WEATHERING	L	4,841.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: AP Name: APRON Use: APRON Area: 207,325.00SqFt

Section: 4110 of 2 From: - To: - Last Const.: 02/01/2015

Surface: AC Family: FDOT-SAPMP-GA-AP-AC Zone: Category: Rank: P

Area: 101,074.00SqFt Length: 1,000.00Ft Width: 100.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0

Conditions:

Sample Number: Type: Area: 0.00

<NO VALID INSPECTIONS>

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: AP HANG Name: HANGAR APRON Use: APRON Area: 10,658.00SqFt

Section: 4205 of 1 From: - To: - Last Const.: 01/01/2009

Surface: AAC Family: FDOT-SAPMP-GA-AP-AAC Zone: Category: Rank: P

Area: 10,658.00SqFt Length: 180.00Ft Width: 20.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 2 Surveyed: 1

Conditions: PCI : 85

Inspection Comments:

Sample Number: 100 Type: R Area: 5,706.00SqFt PCI = 85

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	30.00 Ft	Comments:
56	SWELLING	L	15.00 SqFt	Comments:
52	RAVELING	L	85.00 SqFt	Comments:
57	WEATHERING	L	5,421.00 SqFt	Comments:
42	BLEEDING	N	1.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: AP RU Name: RUN-UP APRON Use: APRON Area: 28,165.00SqFt

Section: 5105 of 1 From: - To: - Last Const.: 01/01/2013

Surface: AC Family: FDOT-SAPMP-GA-AP-AC Zone: Category: Rank: P

Area: 28,165.00SqFt Length: 400.00Ft Width: 50.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0

Conditions:

Sample Number: Type: Area: 0.00

<NO VALID INSPECTIONS>

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: AP T-HANG Name: APRON AT T-HANGARS Use: APRON Area: 47,220.00SqFt

Section: 4315 of 4 From: - To: - Last Const.: 01/01/1986

Surface: AC Family: FDOT-SAPMP-GA-AP-AC Zone: Category: Rank: P

Area: 3,900.00SqFt Length: 80.00Ft Width: 50.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 1 Surveyed: 1

Conditions: PCI : 55

Inspection Comments:

Sample Number: 100 Type: R Area: 3,900.00SqFt PCI = 55

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	415.00 Ft	Comments:
52	RAVELING	M	390.00 SqFt	Comments:
52	RAVELING	L	3,510.00 SqFt	Comments:
49	OIL SPILLAGE	N	2.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: AP T-HANG Name: APRON AT T-HANGARS Use: APRON Area: 47,220.00SqFt

Section: 4316 of 4 From: - To: - Last Const.: 01/01/2003

Surface: APC Family: FDOT-SAPMP-GA-APC Zone: Category: Rank: P

Area: 2,867.00SqFt Length: 65.00Ft Width: 50.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 1 Surveyed: 1

Conditions: PCI : 29

Inspection Comments:

Sample Number: 100 Type: R Area: 2,867.00SqFt PCI = 29

Sample Comments:

47	JOINT REFLECTION CRACKING	M	150.00 Ft	Comments:
47	JOINT REFLECTION CRACKING	L	63.00 Ft	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	L	22.00 Ft	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	M	84.00 Ft	Comments:
43	BLOCK CRACKING	M	1,705.00 SqFt	Comments:
45	DEPRESSION	L	24.00 SqFt	Comments:
45	DEPRESSION	L	10.00 SqFt	Comments:
52	RAVELING	L	287.00 SqFt	Comments:
57	WEATHERING	L	2,580.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: AP T-HANG Name: APRON AT T-HANGARS Use: APRON Area: 47,220.00SqFt

Section: 4320 of 4 From: - To: - Last Const.: 01/01/2005

Surface: AC Family: FDOT-SAPMP-GA-AP-AC Zone: Category: Rank: P

Area: 18,657.00SqFt Length: 507.00Ft Width: 35.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 6 Surveyed: 1

Conditions: PCI : 81

Inspection Comments:

Sample Number: 201 Type: R Area: 3,500.00SqFt PCI = 81

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	92.00 Ft	Comments:
52	RAVELING	L	100.00 SqFt	Comments:
57	WEATHERING	L	3,400.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: AP T-HANG Name: APRON AT T-HANGARS Use: APRON Area: 47,220.00SqFt

Section: 4325 of 4 From: - To: - Last Const.: 01/01/2003

Surface: AC Family: FDOT-SAPMP-GA-AP-AC Zone: Category: Rank: P

Area: 21,796.00SqFt Length: 709.00Ft Width: 35.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 6 Surveyed: 1

Conditions: PCI : 66

Inspection Comments:

Sample Number: 301 Type: R Area: 3,207.00SqFt PCI = 66

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	8.00 Ft	Comments:
52	RAVELING	M	160.00 SqFt	Comments:
52	RAVELING	L	3,047.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: RW 14-32 Name: RUNWAY 14-32 Use: RUNWAY Area: 320,069.00SqFt

Section: 6205 of 4 From: - To: - Last Const.: 01/01/1942

Surface: PCC Family: FDOT-SAPMP-GA-RW-TW-PCC Zone: Category: Rank: P

Area: 24,687.00SqFt Length: 303.00Ft Width: 100.00Ft

Slabs: 97 Slab Width: 25.00Ft Slab Length: 12.50Ft Joint Length: 3,233.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/14/2012 Total Samples: 6 Surveyed: 2

Conditions: PCI : 41

Inspection Comments:

Sample Number: 301 Type: R Area: 14.52Slabs PCI = 37

Sample Comments:

65 JT SEAL DMG	H	16.00 Slabs	Comments:
70 SCALING	L	7.00 Slabs	Comments:
63 LINEAR CR	M	6.00 Slabs	Comments:
74 JOINT SPALL	M	1.00 Slabs	Comments:
74 JOINT SPALL	L	1.00 Slabs	Comments:
63 LINEAR CR	L	1.00 Slabs	Comments:
73 SHRINKAGE CR	L	1.00 Slabs	Comments:
66 SMALL PATCH	L	1.00 Slabs	Comments:
75 CORNER SPALL	L	1.00 Slabs	Comments:

Sample Number: 304 Type: R Area: 14.52Slabs PCI = 44

Sample Comments:

65 JT SEAL DMG	M	0.00 Slabs	Comments:
74 JOINT SPALL	H	1.00 Slabs	Comments:
65 JT SEAL DMG	H	16.00 Slabs	Comments:
74 JOINT SPALL	M	2.00 Slabs	Comments:
63 LINEAR CR	M	3.00 Slabs	Comments:
70 SCALING	L	12.00 Slabs	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: RW 14-32 Name: RUNWAY 14-32 Use: RUNWAY Area: 320,069.00 SqFt

Section: 6215 of 4 From: - To: - Last Const.: 02/01/2015

Surface: AAC Family: FDOT-SAPMP-GA-RW-AAC Zone: Category: Rank: P

Area: 254,982.00 SqFt Length: 4,300.00 Ft Width: 100.00 Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

NOTE: * Pre-Construction PCI *****

Last Insp. Date: 02/14/2012 Total Samples: 85 Surveyed: 17

Conditions: PCI : 44

Inspection Comments:

Sample Number: 307 Type: R Area: 4,999.94 SqFt PCI = 48

Sample Comments:

43 BLOCK CR	M	450.00 SqFt	Comments:
43 BLOCK CR	L	3,200.00 SqFt	Comments:
48 L & T CR	L	336.00 Ft	Comments:
52 RAVELING	L	3,800.00 SqFt	Comments:

Sample Number: 311 Type: R Area: 4,999.94 SqFt PCI = 44

Sample Comments:

43 BLOCK CR	M	1,300.00 SqFt	Comments:
43 BLOCK CR	L	2,700.00 SqFt	Comments:
52 RAVELING	L	2,900.00 SqFt	Comments:
50 PATCHING	L	0.25 SqFt	Comments:
48 L & T CR	L	29.00 Ft	Comments:

Sample Number: 317 Type: R Area: 5,000.05 SqFt PCI = 46

Sample Comments:

43 BLOCK CR	M	800.00 SqFt	Comments:
43 BLOCK CR	L	2,150.00 SqFt	Comments:
48 L & T CR	M	31.00 Ft	Comments:
48 L & T CR	L	209.00 Ft	Comments:
52 RAVELING	L	2,600.00 SqFt	Comments:

Sample Number: 321 Type: R Area: 4,999.94 SqFt PCI = 45

Sample Comments:

43 BLOCK CR	M	1,250.00 SqFt	Comments:
43 BLOCK CR	L	2,200.00 SqFt	Comments:
48 L & T CR	L	110.00 Ft	Comments:
52 RAVELING	L	3,600.00 SqFt	Comments:

Sample Number: 326 Type: R Area: 5,000.05 SqFt PCI = 50

Sample Comments:

43 BLOCK CR	M	800.00 SqFt	Comments:
43 BLOCK CR	L	3,200.00 SqFt	Comments:
48 L & T CR	L	104.00 Ft	Comments:
52 RAVELING	L	1,700.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Sample Number: 333 Type: R Area: 4,999.94 SqFt PCI = 45

Sample Comments:

43 BLOCK CR	M	2,000.00 SqFt	Comments:
43 BLOCK CR	L	2,400.00 SqFt	Comments:
48 L & T CR	L	90.00 Ft	Comments:
52 RAVELING	L	1,550.00 SqFt	Comments:

Sample Number: 342 Type: R Area: 5,000.05 SqFt PCI = 49

Sample Comments:

43 BLOCK CR	M	1,100.00 SqFt	Comments:
43 BLOCK CR	L	1,900.00 SqFt	Comments:
52 RAVELING	L	2,400.00 SqFt	Comments:
48 L & T CR	L	133.00 Ft	Comments:

Sample Number: 348 Type: R Area: 5,000.05 SqFt PCI = 45

Sample Comments:

43 BLOCK CR	M	1,150.00 SqFt	Comments:
43 BLOCK CR	L	2,600.00 SqFt	Comments:
52 RAVELING	L	3,200.00 SqFt	Comments:
48 L & T CR	L	205.00 Ft	Comments:

Sample Number: 352 Type: R Area: 4,999.94 SqFt PCI = 45

Sample Comments:

43 BLOCK CR	M	2,200.00 SqFt	Comments:
43 BLOCK CR	L	1,450.00 SqFt	Comments:
52 RAVELING	L	2,150.00 SqFt	Comments:
48 L & T CR	L	88.00 Ft	Comments:

Sample Number: 356 Type: R Area: 4,999.94 SqFt PCI = 42

Sample Comments:

43 BLOCK CR	M	2,750.00 SqFt	Comments:
43 BLOCK CR	L	1,550.00 SqFt	Comments:
52 RAVELING	L	2,150.00 SqFt	Comments:
48 L & T CR	L	57.00 Ft	Comments:

Sample Number: 359 Type: R Area: 5,000.05 SqFt PCI = 44

Sample Comments:

43 BLOCK CR	M	2,150.00 SqFt	Comments:
43 BLOCK CR	L	1,500.00 SqFt	Comments:
52 RAVELING	L	2,650.00 SqFt	Comments:
48 L & T CR	L	67.00 Ft	Comments:

Sample Number: 372 Type: R Area: 5,000.05 SqFt PCI = 41

Sample Comments:

43 BLOCK CR	M	1,500.00 SqFt	Comments:
43 BLOCK CR	L	2,800.00 SqFt	Comments:
50 PATCHING	L	0.20 SqFt	Comments:
52 RAVELING	L	3,450.00 SqFt	Comments:
48 L & T CR	L	75.00 Ft	Comments:

Sample Number: 376 Type: R Area: 5,000.05 SqFt PCI = 44

Sample Comments:

43 BLOCK CR	M	1,100.00 SqFt	Comments:
43 BLOCK CR	L	3,400.00 SqFt	Comments:
48 L & T CR	L	54.00 Ft	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

52 RAVELING		L	3,100.00 SqFt	Comments:

Sample Number: 382 Type: R Area: 5,000.00 SqFt PCI = 45

Sample Comments:

43 BLOCK CR		M	1,400.00 SqFt	Comments:
43 BLOCK CR		L	2,900.00 SqFt	Comments:
52 RAVELING		L	2,150.00 SqFt	Comments:
48 L & T CR		L	113.00 Ft	Comments:

Sample Number: 386 Type: R Area: 5,000.00 SqFt PCI = 40

Sample Comments:

43 BLOCK CR		M	2,200.00 SqFt	Comments:
43 BLOCK CR		L	2,700.00 SqFt	Comments:
52 RAVELING		L	2,600.00 SqFt	Comments:
48 L & T CR		L	94.00 Ft	Comments:

Sample Number: 390 Type: R Area: 5,000.00 SqFt PCI = 39

Sample Comments:

43 BLOCK CR		M	3,100.00 SqFt	Comments:
43 BLOCK CR		L	1,800.00 SqFt	Comments:
52 RAVELING		M	16.00 SqFt	Comments:
52 RAVELING		L	2,900.00 SqFt	Comments:

Sample Number: 393 Type: R Area: 5,000.00 SqFt PCI = 41

Sample Comments:

43 BLOCK CR		M	2,900.00 SqFt	Comments:
43 BLOCK CR		L	2,100.00 SqFt	Comments:
52 RAVELING		L	3,200.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: RW 14-32 Name: RUNWAY 14-32 Use: RUNWAY Area: 320,069.00SqFt

Section: 6235 of 4 From: - To: - Last Const.: 01/01/1942

Surface: PCC Family: FDOT-SAPMP-GA-RW-TW-PCC Zone: Category: Rank: P

Area: 24,769.00SqFt Length: 300.00Ft Width: 100.00Ft

Slabs: 96 Slab Width: 25.00Ft Slab Length: 12.50Ft Joint Length: 3,200.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/14/2012 Total Samples: 6 Surveyed: 2

Conditions: PCI : 62

Inspection Comments:

Sample Number: 397 Type: R Area: 14.52Slabs PCI = 74

Sample Comments:

65 JT SEAL DMG	H	16.00 Slabs	Comments:
75 CORNER SPALL	L	1.00 Slabs	Comments:
74 JOINT SPALL	M	1.00 Slabs	Comments:
74 JOINT SPALL	L	1.00 Slabs	Comments:
70 SCALING	L	9.00 Slabs	Comments:

Sample Number: 399 Type: R Area: 14.52Slabs PCI = 51

Sample Comments:

65 JT SEAL DMG	H	16.00 Slabs	Comments:
74 JOINT SPALL	L	3.00 Slabs	Comments:
63 LINEAR CR	L	2.00 Slabs	Comments:
63 LINEAR CR	M	2.00 Slabs	Comments:
74 JOINT SPALL	M	1.00 Slabs	Comments:
75 CORNER SPALL	L	1.00 Slabs	Comments:
70 SCALING	L	6.00 Slabs	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: RW 14-32 Name: RUNWAY 14-32 Use: RUNWAY Area: 320,069.00SqFt

Section: 6250 of 4 From: - To: - Last Const.: 02/01/2015

Surface: AC Family: FDOT-SAPMP-GA-RW-AC Zone: Category: Rank: P

Area: 15,631.00SqFt Length: 303.00Ft Width: 100.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0

Conditions:

Sample Number: Type: Area: 0.00

<NO VALID INSPECTIONS>

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: RW 5-23 Name: RUNWAY 5-23 Use: RUNWAY Area: 689,400.00SqFt

Section: 6110 of 5 From: - To: - Last Const.: 01/01/1942

Surface: PCC Family: FDOT-SAPMP-GA-RW-TW-PCC Zone: Category: Rank: P

Area: 7,500.00SqFt Length: 600.00Ft Width: 25.00Ft

Slabs: 48 Slab Width: 25.00Ft Slab Length: 12.50Ft Joint Length: 1,175.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 3 Surveyed: 2

Conditions: PCI : 92

Inspection Comments:

Sample Number: 302 Type: R Area: 16.00Slabs PCI = 97

Sample Comments:

75 CORNER SPALLING	L	1.00 Slabs	Comments:

Sample Number: 500 Type: R Area: 10.00Slabs PCI = 84

Sample Comments:

65 JOINT SEAL DAMAGE	L	10.00 Slabs	Comments:
63 LINEAR CRACKING	L	2.00 Slabs	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: RW 5-23 Name: RUNWAY 5-23 Use: RUNWAY Area: 689,400.00SqFt

Section: 6112 of 5 From: - To: - Last Const.: 01/01/2006

Surface: APC Family: FDOT-SAPMP-GA-RW-AAC Zone: Category: Rank: P

Area: 15,000.00SqFt Length: 150.00Ft Width: 100.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 3 Surveyed: 1

Conditions: PCI : 50

Inspection Comments:

Sample Number: 304 Type: R Area: 5,000.00SqFt PCI = 50

Sample Comments:

47	JOINT REFLECTION CRACKING	M	253.00 Ft	Comments:
47	JOINT REFLECTION CRACKING	L	158.00 Ft	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	L	126.00 Ft	Comments:
47	JOINT REFLECTION CRACKING	M	47.00 Ft	Comments:
52	RAVELING	L	500.00 SqFt	Comments:
57	WEATHERING	L	4,500.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW A Name: TAXIWAY A Use: TAXIWAY Area: 447,492.00SqFt

Section: 205 of 2 From: - To: - Last Const.: 01/01/2013

Surface: AAC Family: FDOT-SAPMP-GA-TW-AAC Zone: Category: Rank: P

Area: 159,607.00SqFt Length: 1,990.00Ft Width: 35.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

NOTE: * Pre-Construction PCI ***

Last Insp. Date: 02/15/2012 Total Samples: 21 Surveyed: 3

Conditions: PCI : 66

Inspection Comments:

Sample Number: 104 Type: R Area: 3,496.87SqFt PCI = 60

Sample Comments: tw A

48 L & T CR	M	32.00 Ft	Comments:
48 L & T CR	L	254.00 Ft	Comments:
52 RAVELING	M	40.00 SqFt	Comments:
52 RAVELING	L	3,060.00 SqFt	Comments:

Sample Number: 108 Type: R Area: 3,499.99SqFt PCI = 66

Sample Comments: twA

48 L & T CR	L	185.00 Ft	Comments:
52 RAVELING	M	52.00 SqFt	Comments:
52 RAVELING	L	2,600.00 SqFt	Comments:

Sample Number: 119 Type: R Area: 3,499.99SqFt PCI = 71

Sample Comments: tw a

50 PATCHING	L	0.25 SqFt	Comments:
48 L & T CR	L	200.00 Ft	Comments:
52 RAVELING	L	2,100.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW A Name: TAXIWAY A Use: TAXIWAY Area: 447,492.00SqFt

Section: 220 of 2 From: - To: - Last Const.: 01/01/2013

Surface: AC Family: FDOT-SAPMP-GA-TW-AC Zone: Category: Rank: P

Area: 287,885.00SqFt Length: 3,000.00Ft Width: 50.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0

Conditions:

Sample Number: Type: Area: 0.00

<NO VALID INSPECTIONS>

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW A1 Name: TAXIWAY A1 Use: TAXIWAY Area: 34,316.00SqFt

Section: 255 of 1 From: - To: - Last Const.: 01/01/2013

Surface: AC Family: FDOT-SAPMP-GA-TW-AC Zone: Category: Rank: P

Area: 34,316.00SqFt Length: 600.00Ft Width: 50.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0

Conditions:

Sample Number: Type: Area: 0.00

<NO VALID INSPECTIONS>

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW B Name: TAXIWAY B Use: TAXIWAY Area: 101,923.00SqFt

Section: 305 of 1 From: - To: - Last Const.: 01/01/2009

Surface: AAC Family: FDOT-SAPMP-GA-TW-AAC Zone: Category: Rank: P

Area: 101,923.00SqFt Length: 2,365.00Ft Width: 35.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 29 Surveyed: 4

Conditions: PCI : 88

Inspection Comments:

Sample Number: 104 Type: R Area: 3,549.00SqFt PCI = 84

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	45.00 Ft	Comments:
52 RAVELING	L	100.00 SqFt	Comments:
57 WEATHERING	L	3,449.00 SqFt	Comments:

Sample Number: 116 Type: R Area: 3,500.00SqFt PCI = 85

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	16.00 Ft	Comments:
52 RAVELING	L	100.00 SqFt	Comments:
57 WEATHERING	L	3,400.00 SqFt	Comments:

Sample Number: 130 Type: R Area: 3,500.00SqFt PCI = 94

Sample Comments:

57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 144 Type: R Area: 3,750.00SqFt PCI = 88

Sample Comments:

52 RAVELING	L	188.00 SqFt	Comments:
57 WEATHERING	L	3,562.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW C Name: TAXIWAY C Use: TAXIWAY Area: 97,432.00SqFt

Section: 105 of 2 From: - To: - Last Const.: 01/01/2009

Surface: AAC Family: FDOT-SAPMP-GA-TW-AAC Zone: Category: Rank: P

Area: 62,023.00SqFt Length: 1,174.00Ft Width: 50.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 12 Surveyed: 2

Conditions: PCI : 77

Inspection Comments:

Sample Number: 101 Type: R Area: 5,651.00SqFt PCI = 72

Sample Comments:

56 SWELLING	L	24.00 SqFt	Comments:
56 SWELLING	L	102.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	31.00 Ft	Comments:
56 SWELLING	L	58.00 SqFt	Comments:
56 SWELLING	L	175.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	101.00 Ft	Comments:
52 RAVELING	L	283.00 SqFt	Comments:
57 WEATHERING	L	5,368.00 SqFt	Comments:

Sample Number: 107 Type: R Area: 5,000.00SqFt PCI = 82

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	156.00 Ft	Comments:
45 DEPRESSION	L	6.00 SqFt	Comments:
52 RAVELING	L	50.00 SqFt	Comments:
57 WEATHERING	L	4,950.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW C Name: TAXIWAY C Use: TAXIWAY Area: 97,432.00SqFt

Section: 115 of 2 From: - To: - Last Const.: 01/01/2009

Surface: AAC Family: FDOT-SAPMP-GA-TW-AAC Zone: Category: Rank: P

Area: 35,409.00SqFt Length: 416.00Ft Width: 70.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 8 Surveyed: 1

Conditions: PCI : 88

Inspection Comments:

Sample Number: 301 Type: R Area: 4,866.00SqFt PCI = 88

Sample Comments:

52 RAVELING	L	243.00 SqFt	Comments:
57 WEATHERING	L	4,623.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW D Name: TAXIWAY D Use: TAXIWAY Area: 70,293.00SqFt

Section: 505 of 1 From: - To: - Last Const.: 01/01/2009

Surface: AAC Family: FDOT-SAPMP-GA-TW-AC Zone: Category: Rank: P

Area: 70,293.00SqFt Length: 1,150.00Ft Width: 25.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 12 Surveyed: 2

Conditions: PCI : 88

Inspection Comments:

Sample Number: 103 Type: R Area: 5,080.00SqFt PCI = 88

Sample Comments:

52 RAVELING	L	254.00 SqFt	Comments:
57 WEATHERING	L	4,826.00 SqFt	Comments:

Sample Number: 108 Type: R Area: 5,000.00SqFt PCI = 88

Sample Comments:

52 RAVELING	L	250.00 SqFt	Comments:
57 WEATHERING	L	4,750.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW D1 Name: TAXIWAY D-1 Use: TAXIWAY Area: 57,110.00SqFt

Section: 405 of 1 From: - To: - Last Const.: 01/01/2009

Surface: AAC Family: FDOT-SAPMP-GA-TW-AAC Zone: Category: Rank: P

Area: 57,110.00SqFt Length: 1,384.00Ft Width: 35.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 15 Surveyed: 2

Conditions: PCI : 92

Inspection Comments:

Sample Number: 102 Type: R Area: 3,500.00SqFt PCI = 94

Sample Comments:

57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 108 Type: R Area: 3,500.00SqFt PCI = 90

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	23.00 Ft	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW E Name: TAXIWAY E Use: TAXIWAY Area: 55,768.00 SqFt

Section: 705 of 1 From: - To: - Last Const.: 01/01/2009

Surface: AAC Family: FDOT-SAPMP-GA-TW-AAC Zone: Category: Rank: P

Area: 55,768.00 SqFt Length: 1,384.00 Ft Width: 35.00 Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 15 Surveyed: 3

Conditions: PCI : 90

Inspection Comments:

Sample Number: 101 Type: R Area: 3,500.00 SqFt PCI = 91

Sample Comments:

57 WEATHERING	L	3,500.00 SqFt	Comments:
52 RAVELING	L	50.00 SqFt	Comments:

Sample Number: 106 Type: R Area: 3,500.00 SqFt PCI = 89

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	30.00 Ft	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 112 Type: R Area: 3,500.00 SqFt PCI = 89

Sample Comments:

52 RAVELING	L	100.00 SqFt	Comments:
57 WEATHERING	L	3,400.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW F Name: TAXIWAY F Use: TAXIWAY Area: 173,727.00SqFt

Section: 550 of 3 From: - To: - Last Const.: 01/01/1942

Surface: AC Family: FDOT-SAPMP-GA-TW-AC Zone: Category: Rank: P

Area: 128,837.00SqFt Length: 2,450.00Ft Width: 75.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 34 Surveyed: 4

Conditions: PCI : 10

Inspection Comments:

Sample Number: 120 Type: R Area: 3,750.00SqFt PCI = 12

Sample Comments:

52 RAVELING	H	3,750.00 SqFt	Comments:
43 BLOCK CRACKING	M	3,750.00 SqFt	Comments:
45 DEPRESSION	M	35.00 SqFt	Comments:
53 RUTTING	L	39.00 SqFt	Comments:
45 DEPRESSION	M	60.00 SqFt	Comments:
45 DEPRESSION	L	36.00 SqFt	Comments:

Sample Number: 125 Type: R Area: 3,750.00SqFt PCI = 16

Sample Comments:

52 RAVELING	H	3,750.00 SqFt	Comments:
43 BLOCK CRACKING	M	3,750.00 SqFt	Comments:
45 DEPRESSION	L	21.00 SqFt	Comments:

Sample Number: 135 Type: R Area: 3,750.00SqFt PCI = 7

Sample Comments:

52 RAVELING	H	3,750.00 SqFt	Comments:
43 BLOCK CRACKING	M	3,250.00 SqFt	Comments:
43 BLOCK CRACKING	H	500.00 SqFt	Comments:

Sample Number: 145 Type: R Area: 3,760.00SqFt PCI = 3

Sample Comments:

52 RAVELING	H	3,760.00 SqFt	Comments:
43 BLOCK CRACKING	H	1,880.00 SqFt	Comments:
43 BLOCK CRACKING	M	1,880.00 SqFt	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW F Name: TAXIWAY F Use: TAXIWAY Area: 173,727.00SqFt

Section: 555 of 3 From: - To: - Last Const.: 01/01/1942

Surface: PCC Family: FDOT-SAPMP-GA-RW-TW-PCC Zone: Category: Rank: P

Area: 11,250.00SqFt Length: 150.00Ft Width: 75.00Ft

Slabs: 36 Slab Width: 12.50Ft Slab Length: 25.00Ft Joint Length: 1,125.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 3 Surveyed: 1

Conditions: PCI : 43

Inspection Comments:

Sample Number: 555 Type: R Area: 12.00Slabs PCI = 43

Sample Comments:

65 JOINT SEAL DAMAGE	H	12.00 Slabs	Comments:
63 LINEAR CRACKING	M	5.00 Slabs	Comments:
63 LINEAR CRACKING	L	3.00 Slabs	Comments:
70 SCALING/CRAZING	L	10.00 Slabs	Comments:

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW F Name: TAXIWAY F Use: TAXIWAY Area: 173,727.00SqFt

Section: 565 of 3 From: - To: - Last Const.: 02/01/2015

Surface: AC Family: FDOT-SAPMP-GA-TW-AC Zone: Category: Rank: P

Area: 33,640.00SqFt Length: 1,000.00Ft Width: 35.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: Total Samples: 0 Surveyed: 0

Conditions:

Sample Number: Type: Area: 0.00

<NO VALID INSPECTIONS>

Re-inspection Report

FDOT

Report Generated Date: May 16, 2015

Network: X60 Name: WILLISTON MUNICIPAL AIRPORT

Branch: TW G Name: TAXIWAY G Use: TAXIWAY Area: 94,473.00SqFt

Section: 450 of 1 From: - To: - Last Const.: 01/01/1942

Surface: AC Family: FDOT-SAPMP-GA-TW-AC Zone: Category: Rank: P

Area: 94,473.00SqFt Length: 1,173.00Ft Width: 75.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 01/21/2015 Total Samples: 24 Surveyed: 3

Conditions: PCI : 10

Inspection Comments:

Sample Number: 105 Type: R Area: 4,108.00SqFt PCI = 17

Sample Comments:

52 RAVELING	H	4,108.00 SqFt	Comments:
43 BLOCK CRACKING	M	4,108.00 SqFt	Comments:

Sample Number: 113 Type: R Area: 3,750.00SqFt PCI = 5

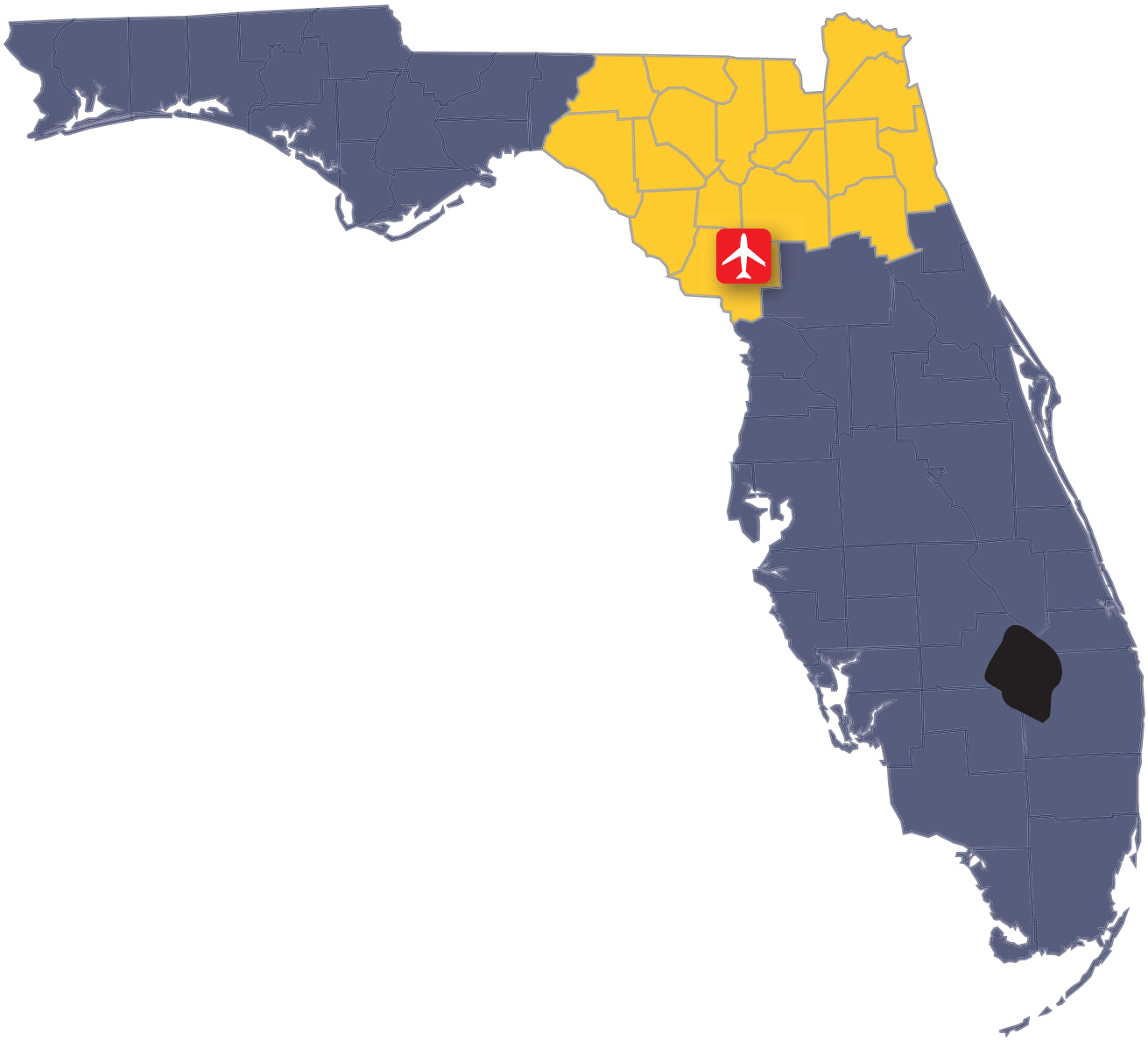
Sample Comments:

52 RAVELING	H	3,714.00 SqFt	Comments:
43 BLOCK CRACKING	M	3,214.00 SqFt	Comments:
50 PATCHING	H	36.00 SqFt	Comments:
43 BLOCK CRACKING	H	500.00 SqFt	Comments:

Sample Number: 119 Type: R Area: 3,766.00SqFt PCI = 5

Sample Comments:

52 RAVELING	H	3,766.00 SqFt	Comments:
43 BLOCK CRACKING	H	766.00 SqFt	Comments:
43 BLOCK CRACKING	M	3,000.00 SqFt	Comments:



FLORIDA DEPARTMENT OF TRANSPORTATION

AVIATION AND SPACEPORT OFFICE

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