FLORIDA DEPARTMENT OF TRANSPORTATION
AVIATION AND SPACEPORT OFFICE

AIRGLADES
AIRPARK (2IS)

DISTRICT 1

GENERAL AVIATION
AIRPORT

DECEMBER 2013

STATEWIDE
Airfield Pavement Management
PROGRAM

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

APPENDICES

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 Peneul Consulting, LLC, Roy D. McQueen & Associates, LTD, and All About Pavements, Inc., 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 and 2014.

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 information provided.
- 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.

During JUNE 2013, a PCI survey inspection was performed at Airglades Airport. The results of the inspection indicate that, based on ASTM 5340-11, the airport's airfield pavement facilities had an overall area-weighted average PCI 70, representing a FAIR overall network condition. Table I summarizes the overall condition summary by network level branch in comparison to the FDOT recommended minimum service level.

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
EAST APRON	39	39	VERY POOR	60	65	X
CONC APRON AT HANGAR	69	22 - 93	FAIR	60	65	X
NORTHWEST APRON	37	37	VERY POOR	60	65	X
SOUTH RAMP	32	32	VERY POOR	60	65	X
WEST APRON AT T-HANGARS	42	36 - 68	POOR	60	65	X
RUNWAY 13-31	100	100	GOOD	75	65	
TAXIWAY A	74	64 - 100	SATISFACTORY	65	65	X
TAXIWAY A1	84	84	SATISFACTORY	65	65	
TAXIWAY A2	52	42 - 81	POOR	65	65	X
TAXIWAY A3	78	78	SATISFACTORY	65	65	
TAXIWAY TO EAST APRON	63	63	FAIR	65	65	X
TAXIWAY TO HANGAR	24	19 - 58	SERIOUS	65		X
TAXIWAY S	67	67	FAIR	65	65	
TAXIWAY CONNECT TO SOUTH APRON	33	33	VERY POOR	65	65	X
TAXIWAY CONNECT TO WEST APRON	29	29	VERY POOR	65	65	X

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	100	GOOD
Taxiway	65	FAIR
Apron	41	POOR

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:

- East Apron – Sections 4505
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Northwest Apron – Sections 4405
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- South Apron – Sections 4305
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Apron Hangar – Sections 4205
  - Reconstruction attributed to distresses related to load repetition, overloading, and construction quality.
- West Apron – Sections 4115
  - Mill and Overlay attributed to distresses related to climate and age of pavement.

- West Apron – Sections 4105
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway to East Apron – Section 710
  - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway to South Apron – Section 505
  - Reconstruction attributed to distresses related to climate and age of pavement.
- Taxiway to Hangar – Section 407
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- Taxiway to Hangar – Section 405
  - Reconstruction attributed to distresses related to subgrade quality, loading, climate, and age of pavement.
- Taxiway to West Apron – Section 305
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway A2 – Section 210 and 215
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- Taxiway A – Section 125
  - Mill and Overlay attributed to distresses related to climate and age of pavement.

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

Table III: Year-1 Major Rehabilitation Needs for Airglades Airport

Branch ID	Section ID	Major Rehabilitation Costs	PCI Before M&R	Rehabilitation Activity	PCI After M&R
AP E	4505	$ 1,544,160.36	39	Reconstruction	100
AP NW	4405	$ 840,300.20	37	Reconstruction	100
AP S	4305	$ 744,075.18	31	Reconstruction	100
AP HANG	4205	$ 122,040.03	22	Reconstruction	100
AP W	4115	$ 248,756.69	49	Mill and Overlay	100
AP W	4105	$ 1,358,700.32	35	Reconstruction	100
TW E AP	710	$ 157,599.99	63	Mill and Overlay	100
TW S AP	505	$ 125,250.03	31	Reconstruction	100
TW HANG	407	$ 50,750.00	58	Mill and Overlay	100
TW HANG	405	$ 473,550.11	17	Reconstruction	100
TW W AP	305	$ 64,125.02	27	Reconstruction	100
TW A2	215	$ 722,011.33	41	Mill and Overlay	100
TW A2	210	$ 353,799.98	61	Mill and Overlay	100
TW A	125	$ 1,056,099.95	64	Mill and Overlay	100
	Total =	$7,861,219.19			

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.

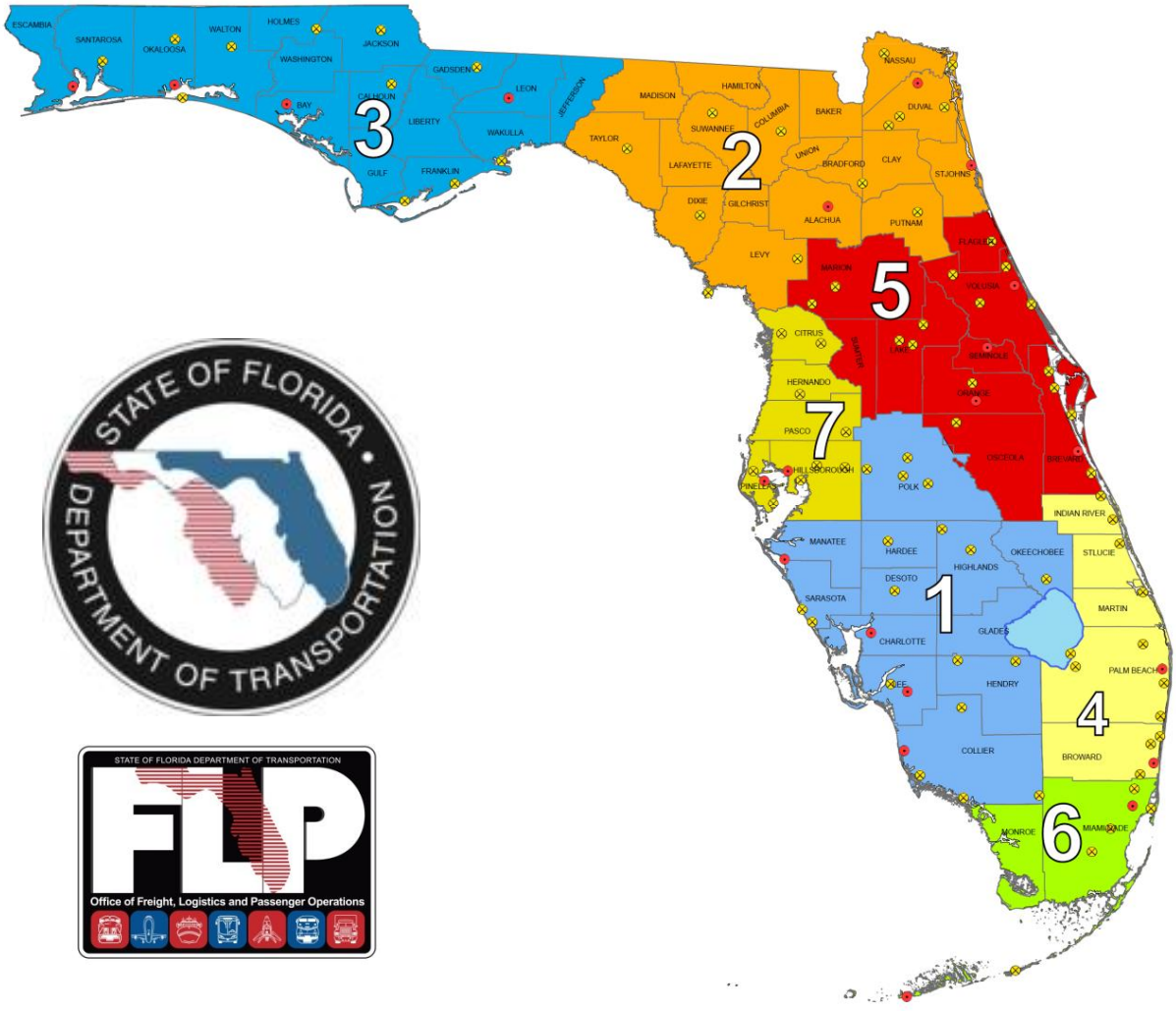
Table IV: 10-Year Preventative Maintenance and Major Rehabilitation

Year	Preventative	Major M&R	Total Year Cost
2014	$ 70,208.22	$ 7,861,219.20	$ 7,931,427.42
2015	$ 86,400.85	$ -	$ 86,400.85
2016	$ 111,243.64	$ 155,103.57	$ 266,347.22
2017	$ 163,488.01	$ -	$ 163,488.01
2018	$ 213,113.05	$ 506,647.77	$ 719,760.81
2019	$ 288,510.17	$ -	$ 288,510.17
2020	$ 339,546.13	$ -	$ 621,223.05
2021	$ 403,496.11	$ -	$ 403,496.11
2022	$ 463,770.81	$ -	$ 463,770.81
2023	$ 472,350.45	$ 989,278.98	$ 1,461,629.43
Total	$2,612,127.44	$9,512,249.52	$ 12,406,053.88

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 will probably 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 Office implemented the Statewide Airfield Pavement Management Program (SAPMP) in 1992. In 2012, the FDOT Central Aviation Office selected a team led by Kimley-Horn and Associates, Inc. and including Peneul Consulting, LLC, Roy D. McQueen & Associates, LTD, and All About Pavements, Inc., to provide services in support of the Central Aviation Office Program Manager. The continued evaluation and update of the existing SAPMP is to be completed over fiscal years 2013 and 2014.

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:

- Describe, briefly, the SAPMP goals, procedures, and responsibilities of the program's participants.
- Provide a brief 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 implementations and again during the 1998-1999 updates; the SAPMP performed the development of 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 150/5380-6B *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 Office Program Manager (AO-PM) for the SAPMP. The AO-PM monitors the work performed by the Consultant. The AO-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 AO-PM reports updates and milestones to the FDOT State Aviation Manager and Aviation Development Administrator.

Consultant

The Consultant, Kimley-Horn and Associates, Inc. and their team consisting of Peneul Consulting, LLC, Roy D. McQueen & Associates, LTD, and All About Pavements, Inc. provide technical and administrative assistance to the AO-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 150/5380-6B *Guidelines and Procedures for Maintenance of Airport Pavements* and ASTM D 5340.

Airport Role

The airports are the ultimate client 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 AO-PM. The airport should provide a current Airport Layout Plan (ALP) to the Consultant and, if they participated in the previous SAPMP, indicate any construction activity that has been 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 AO-PM. Each District supports the SAPMP's on-going efforts of provided 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 mainly two types of pavements:

- Flexible Pavement, a composition of bituminous asphalt concrete (AC) surface, base, and subbase layers.
- Rigid Pavement, a composition 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).

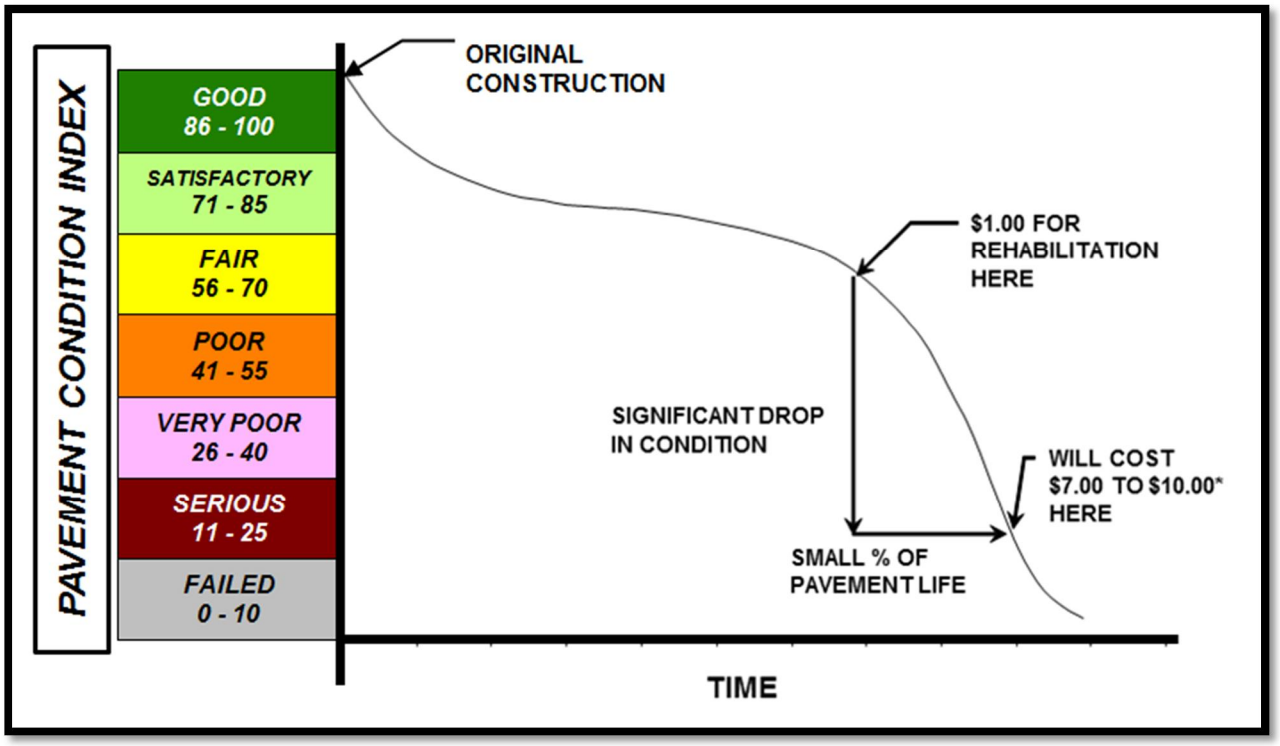
Due to the different nature of the pavement types, construction, and their materials; flexible and rigid pavements have different modes of failure and fatigue. This results in varying deterioration and distress development. Understanding the mechanics and modes of failure of the pavement types will assist the engineers in making timely, adequate, consistent, and 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 5380-7A *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 5380-7A 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 agencies) 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-*11*. As part of this update, SAPMP has adopted the changes made in updates to ASTM D 5340-11. These include the separation of Weathering and Raveling into two distinct flexible pavement distresses, and the addition of the Alkali-Silica Reactivity distress for rigid pavement distresses. The change in distress classification, as described in ASTM D 5340-11, 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 5340-11. Typically, deficiencies within a pavement structure will eventually reflect to the pavement surface as distresses described within ASTM D 5340-11. The SAPMP is specifically a visual evaluation and analysis based on the ASTM D 5340-11. 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 150/5380-6B 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 5340-11 and MicroPAVER 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

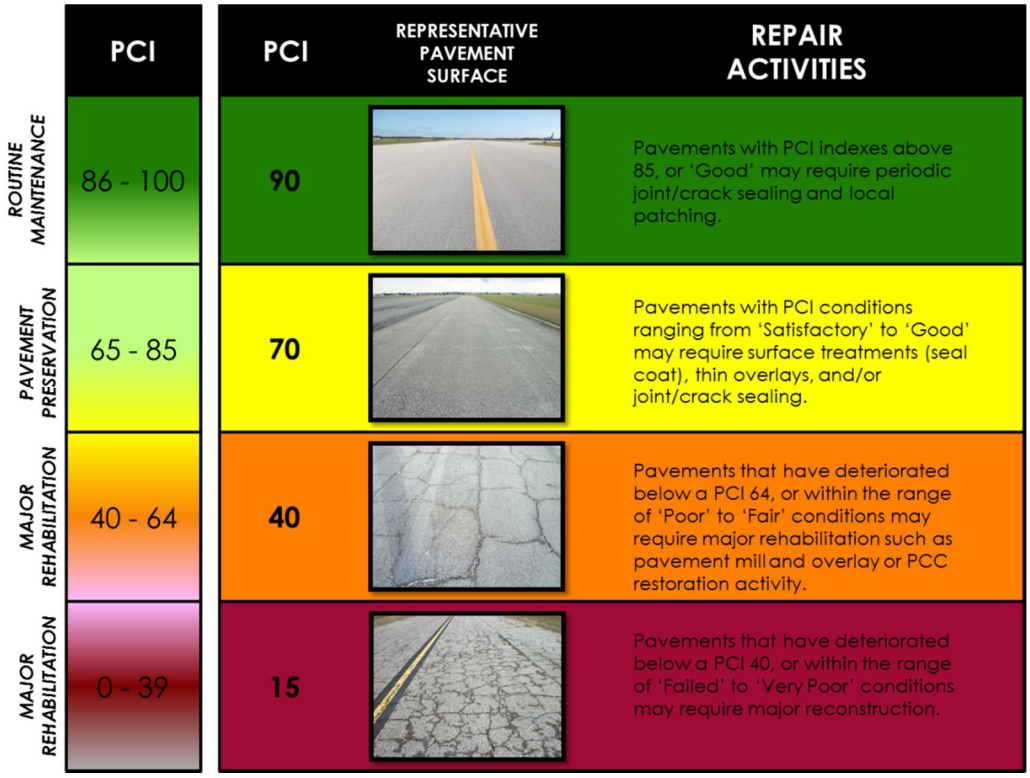
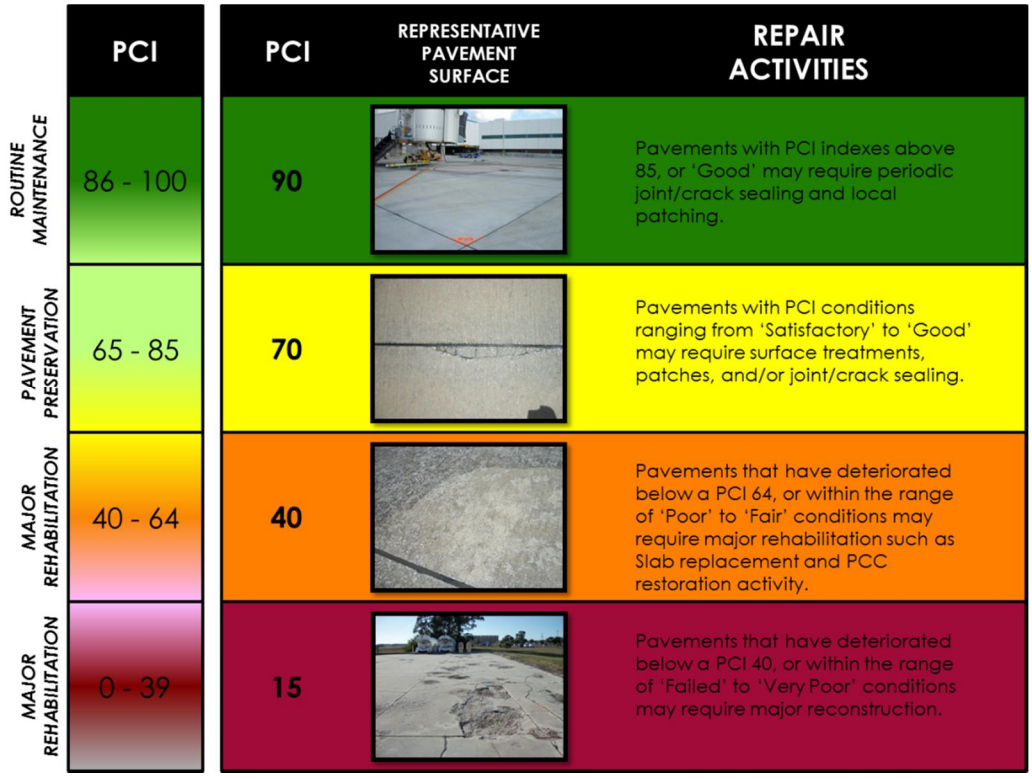


Figure 1-3: Rigid Pavement, Portland Cement Concrete



Using the ASTM D 5340-11 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

Airglades Airport (2IS) consists of one runway, RW 13-31 which is 75-ft wide by 5,901-ft long. RW 13-31 is served by parallel taxiway Alpha and multiple taxiway connectors. Currently the airport has hangar facilities and tie down spots located throughout the apron areas towards the north side of the runway. The airport runway, taxiways and aprons are primarily constructed of AC and AAC pavement, with exception to a few apron sections being constructed of PCC and APC.

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.

Airglades Airport was established as Riddle Field in 1942 by the United States Army Air Force and used by Riddle-McKay Aero College to conduct contract basic flight training. The airfield was inactivated in 1945, but was given to the War Assets Administration and eventually turned over to Hendry County.

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; this variable that 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 and 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: Recent and/or Anticipated Airfield Pavement Construction

Construction Year	Section Location	Work Type/Pavement Section
2011	RUNWAY 13-31	RECONSTRUCTION FULL DEPTH PAVEMENT REBUILD (SECTION 6105) AND MILL AND OVERLAY OF EXTENSIONS (SECTIONS 6103 AND 6110)
2011	TAXIWAY ALPHA	RECONSTRUCTION FULL DEPTH PAVEMENT REBUILD

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.

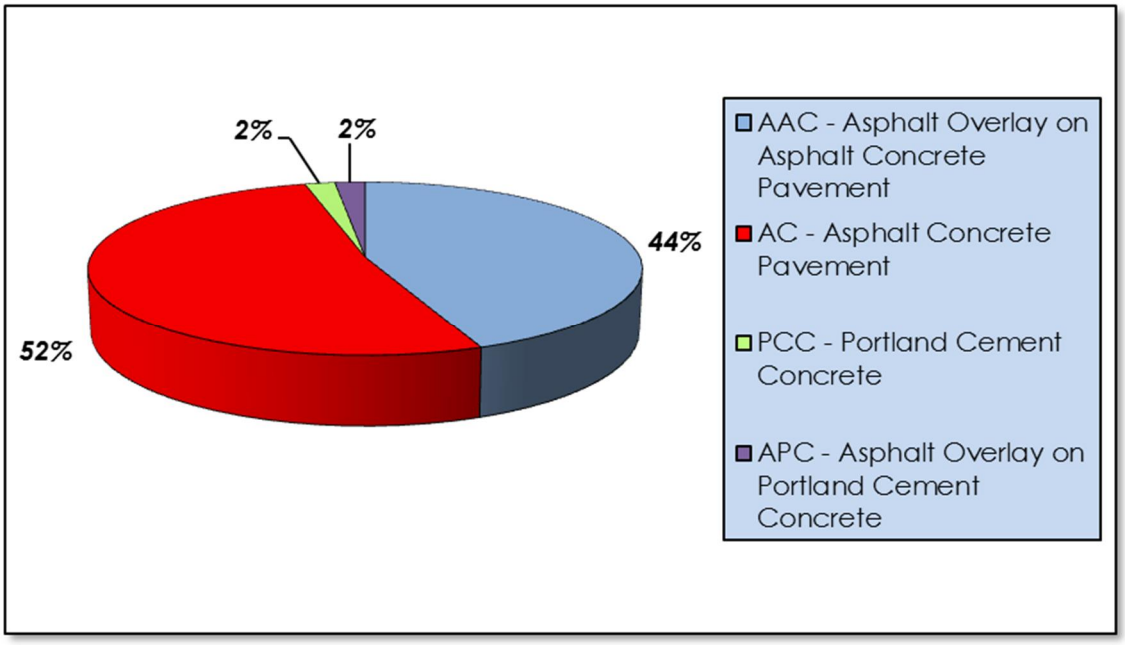
2.2 Pavement Inventory

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

Table 2-2: Pavement Inventory Summary

Airfield Pavement Network Definition		
Number of Branches	15	
Number of Sections	27	
Sample Units	70	
Airfield Pavement Use		
Use	Area (SF)	Relative Area (%)
Runway	442,500	33%
Taxiway	517,629	39%
Apron	364,525	28%
Total =	1,324,654	100%
Airfield Pavement Type		
Type	Area (SF)	Relative Area (%)
Asphalt Concrete (AC)	687,501	52%
Asphalt Overlay (AAC)	586,057	44%
Portland Cement Concrete (PCC)	27,506	2%
AC over PCC (APC)	23,590	2%

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 13-31	RW 13-31	6110	105,000	P	AAC	2/1/2011	5	28
RUNWAY 13-31	RW 13-31	6105	225,000	P	AC	2/1/2011	12	60
RUNWAY 13-31	RW 13-31	6103	112,500	P	AAC	2/1/2011	5	30
EAST APRON	AP E	4505	102,944	P	AC	12/25/1999	3	23
NORTHWEST APRON	AP NW	4405	56,020	P	AC	12/25/1999	2	14
SOUTH RAMP	AP S	4305	49,605	P	AAC	1/1/1984	2	9
CONC APRON AT HANGAR	AP HANG	4215	4,750	P	PCC	12/25/1999	1	2
CONC APRON AT HANGAR	AP HANG	4210	14,280	P	AC	12/25/1999	1	3
CONC APRON AT HANGAR	AP HANG	4205	8,136	P	PCC	1/1/1982	1	1
WEST APRON AT T-HANGARS	AP W	4115	23,590	P	APC	7/31/2008	1	5

Branch Name	Branch ID	Section ID	True Area (SF)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
WEST APRON AT T-HANGARS	AP W	4110	14,620	P	PCC	12/25/1999	2	3
WEST APRON AT T-HANGARS	AP W	4105	90,580	P	AAC	1/1/1996	3	27
TAXIWAY TO EAST APRON	TW E AP	710	15,760	P	AC	12/25/1999	1	5
TAXIWAY S	TW S	605	45,015	P	AC	1/1/1996	3	13
TAXIWAY CONNECT TO SOUTH APRON	TW S AP	505	8,350	P	AAC	1/1/1984	1	2
TAXIWAY A3	TW A3	410	40,598	P	AC	1/1/1996	3	11
TAXIWAY TO HANGAR	TW HANG	407	5,075	P	AC	1/1/1996	1	1
TAXIWAY TO HANGAR	TW HANG	405	31,570	P	AAC	1/1/1984	2	7
TAXIWAY CONNECT TO W APRON	TW W AP	305	4,275	P	AAC	1/1/1984	1	1
TAXIWAY ALPHA 2	TW A2	215	50,561	P	AC	1/1/1984	2	10
TAXIWAY ALPHA 2	TW A2	210	35,380	P	AAC	1/1/1996	2	9
TAXIWAY ALPHA 2	TW A2	205	8,075	T	AAC	1/1/1996	1	1
TAXIWAY ALPHA	TW A	125	105,610	P	AC	1/1/1996	6	30
TAXIWAY ALPHA	TW A	120	26,638	P	AC	1/1/2011	1	5
TAXIWAY ALPHA	TW A	105	36,379	P	AAC	1/1/1996	2	12
TAXIWAY ALPHA 1	TW A1	104	28,523	P	AAC	1/1/1996	1	8
TAXIWAY ALPHA	TW A	103	75,820	P	AAC	1/1/1996	5	22

3. AIRFIELD PAVEMENT CONDITION

Airfield pavement distresses and condition were surveyed in accordance with the methods outlined in FAA Advisory Circular 150/5380-6B and ASTM D 5340-11. 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 5340-11, released in 2011, 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 analyses.

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 is used to calculate PCI values using the methodology described in ASTM D 5340-11. 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 5340-11 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 2013 at Airglades Airport, the overall weighted average PCI value is 70 representing a condition rating of FAIR.

The airport's airfield pavements exhibited distresses typically associated with climate and age based distresses. The predominant AC and AAC pavement distresses observed include: block cracking, weathering, raveling, longitudinal/transverse cracking, swelling, and depression. The predominant PCC pavement distresses observed include: joint seal damage, corner spall, and joint spall.

Runway 13-31 was rehabilitated in 2011 and was not inspected in this phase. The runway's pavements are assumed to be at a PCI of 100 for the purposes of this report.

Parallel Taxiway A and its connectors exhibited pavement condition indices ranging from 63-100. Generally, the pavements are in Satisfactory condition. Pavements on Taxiway A and connectors exhibited low severity longitudinal/transverse cracking; low and medium severity weathering; low severity swelling; low and medium severity raveling; and low severity patching. These are climate, age, and subgrade quality based distresses.

The remaining taxiways and aprons were generally in Fair to Serious condition. They exhibited more severe versions of the distresses found on Taxiway A as well as block cracking and depression. These pavements are showing considerable climate, age, and subgrade quality based distresses.

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

The pavement condition at Airglades 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.

Appendix B contains Table B-1 summarizes the Section Condition values and the Airfield Pavement Condition Index Rating Exhibit, Figure B-1, that depicts the PCI results by Section. Appendix H is dedicated to the reporting of the specific airfield pavement distress data collected at the time of the inspection for this update.

Figure 3-1: Airfield Pavement Condition Index Rating Summary

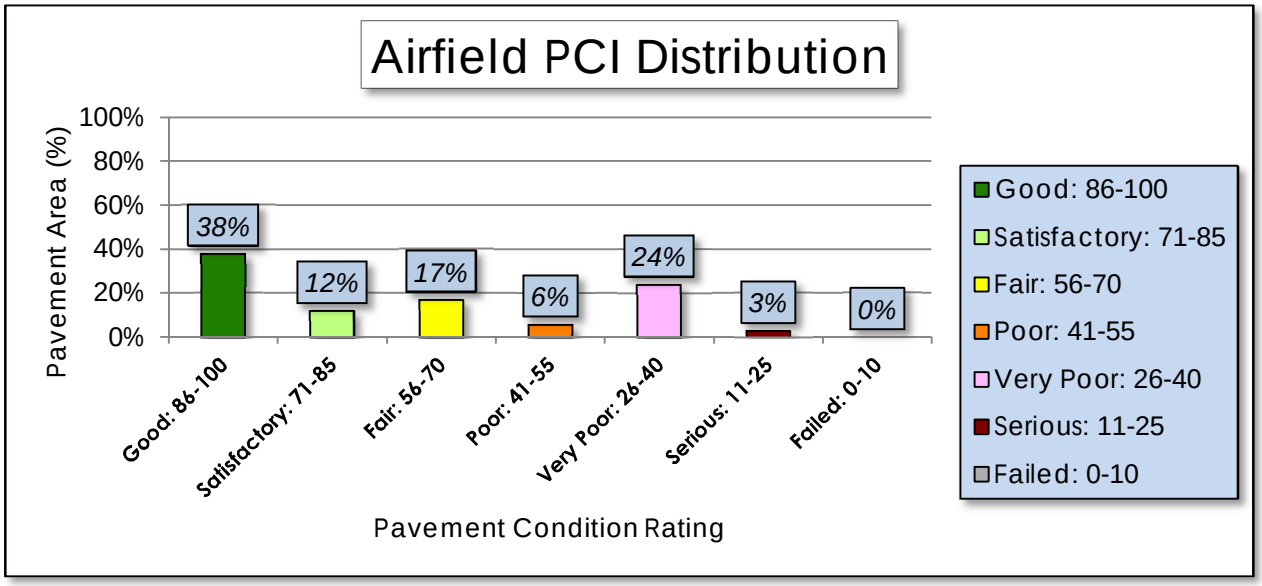


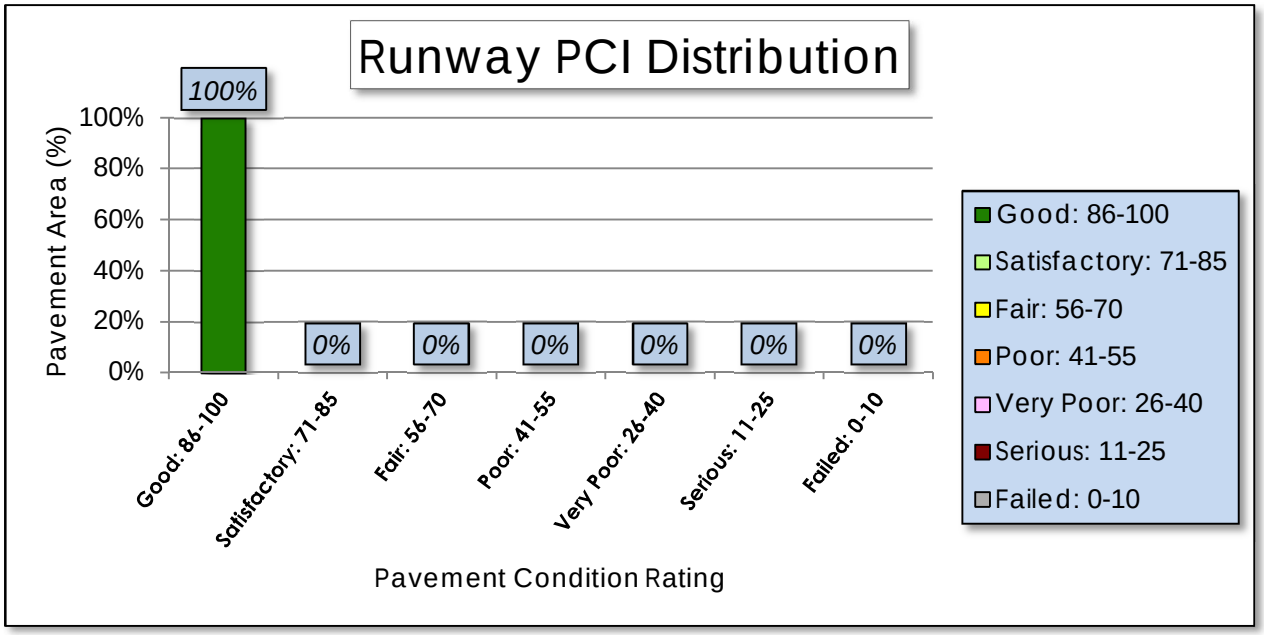
Table 3-3: Pavement Condition Index Rating Summary

Airfield Pavement Use		
Use	Average Area-Weighted PCI	Condition Rating
Runway	100	GOOD
Taxiway	65	FAIR
Apron	41	POOR
Condition Area		
Condition Rating	Area (SF)	Relative Area (%)
Good	524,547	38%
Satisfactory	153,016	12%
Fair	221,460	17%
Poor	74,151	6%
Very Poor	311,774	24%
Serious	39,706	3%
Failed	-	0%

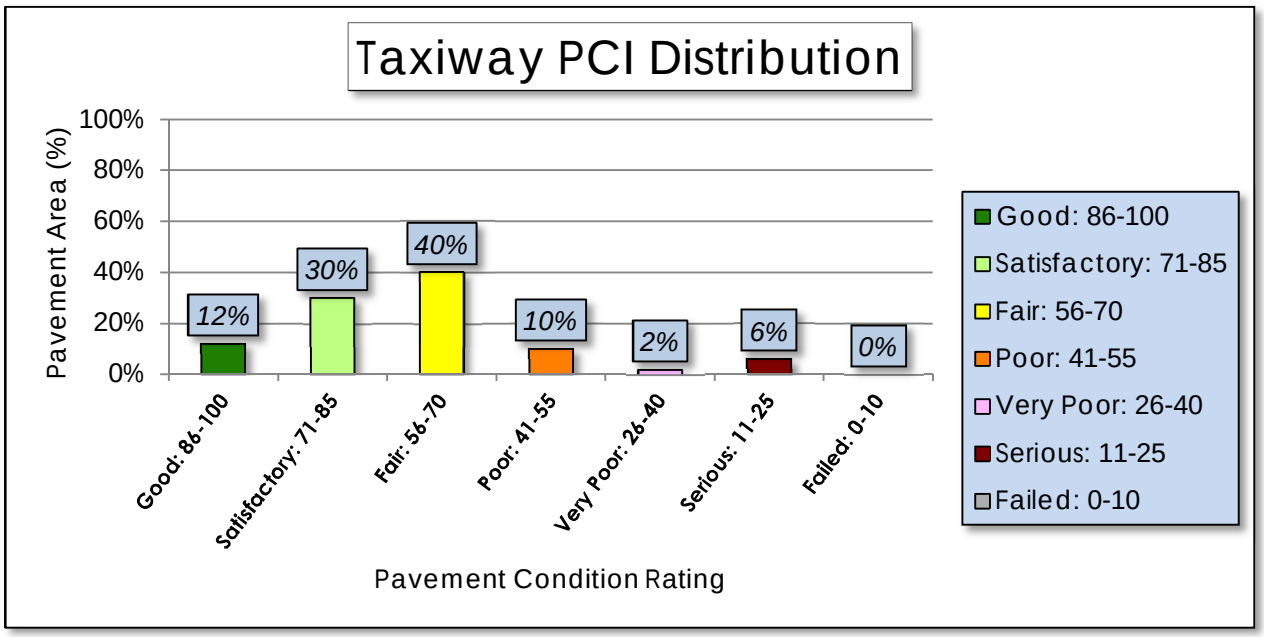
Approximately 50% of the airfield network is in Good and Satisfactory condition; while 33% of the network is in a Poor to Serious condition. Table 3-3 provides a breakdown of total area for each pavement by condition rating. Figures 3.2 a, b, c depict the condition rating of the airfield pavement by 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

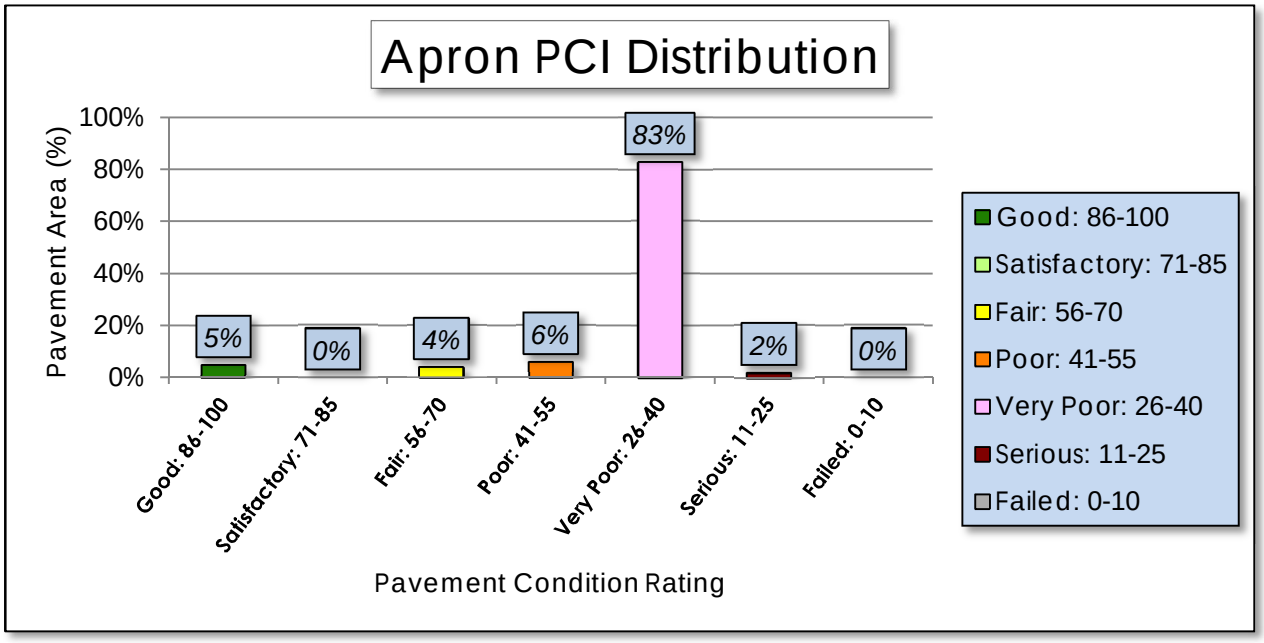
(a) Runway



(b) Taxiway



(c) Apron


Apron PCI Distribution
Pavement Area (%)
100%
80%
60%
40%
20%
0%
5%
0%
4%
6%
83%
2%
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 have 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 2014. 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 Airglades Airport based on pavement use. Each figure depicts the FDOT recommended Minimum Service Level PCI value for each pavement type.

Figure 4-1: Runway Pavement Performance Prediction Summary

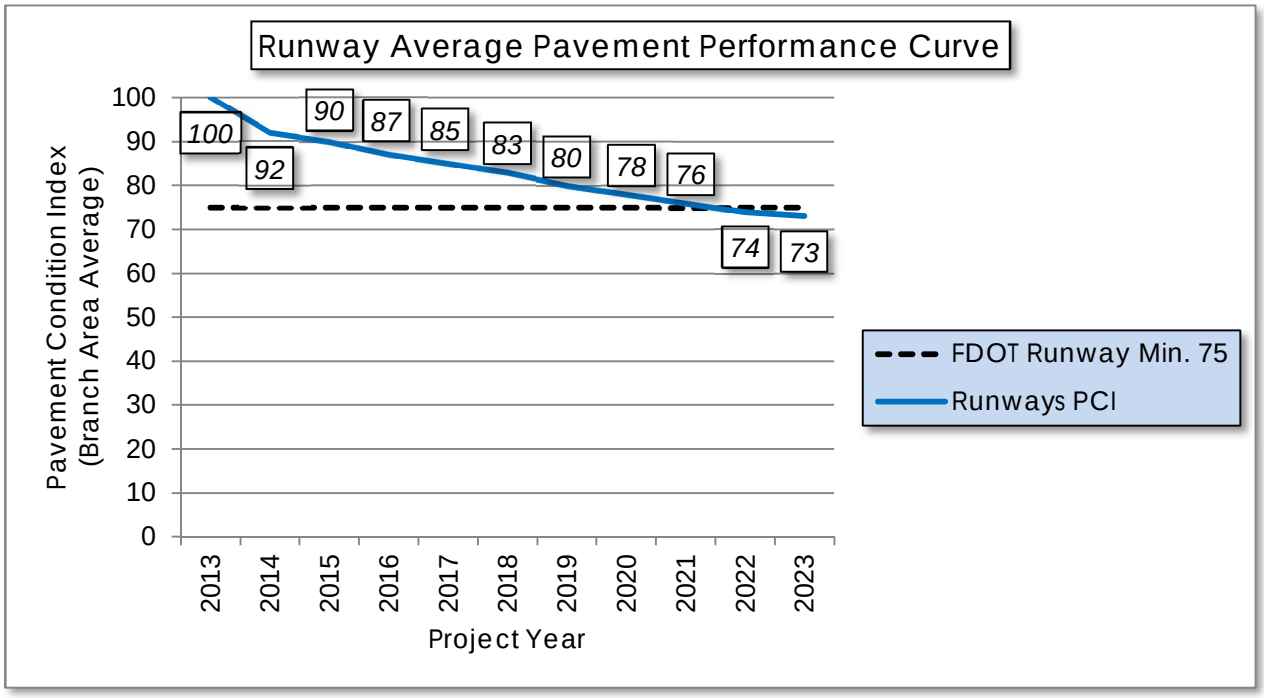


Figure 4-2: Taxiway Pavement Performance Prediction Summary

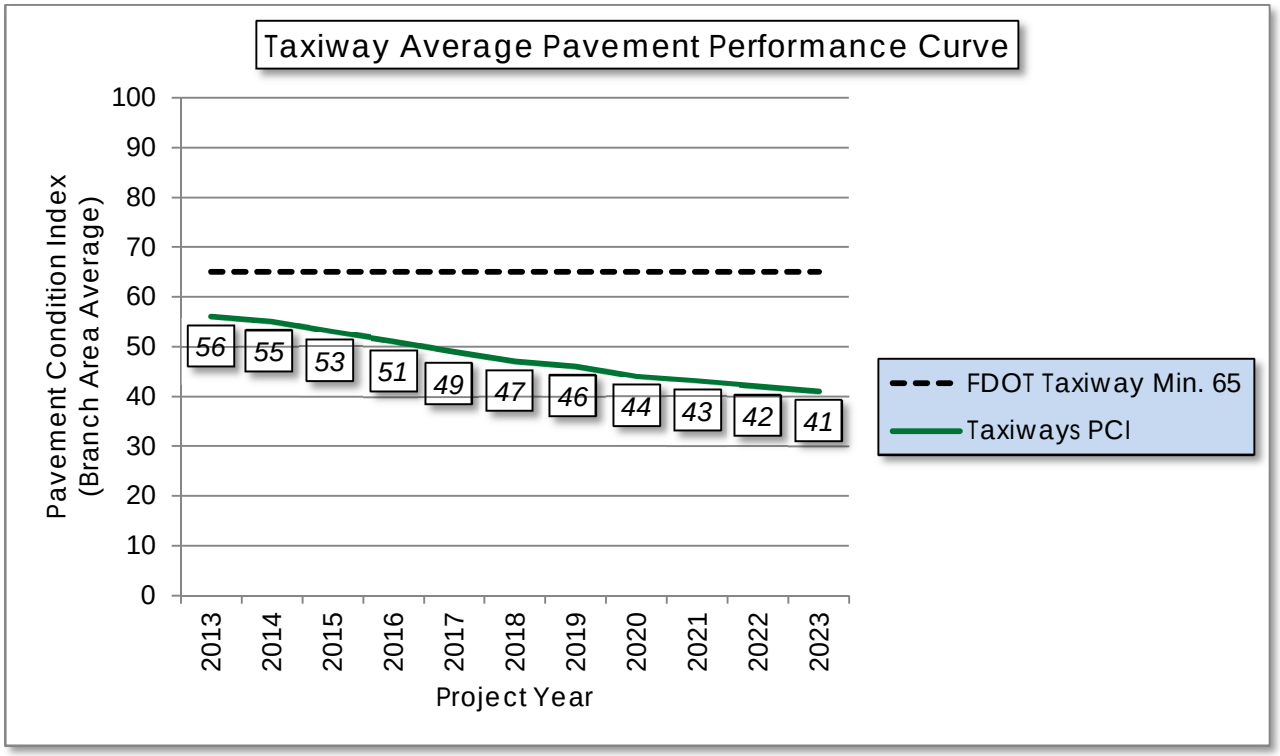
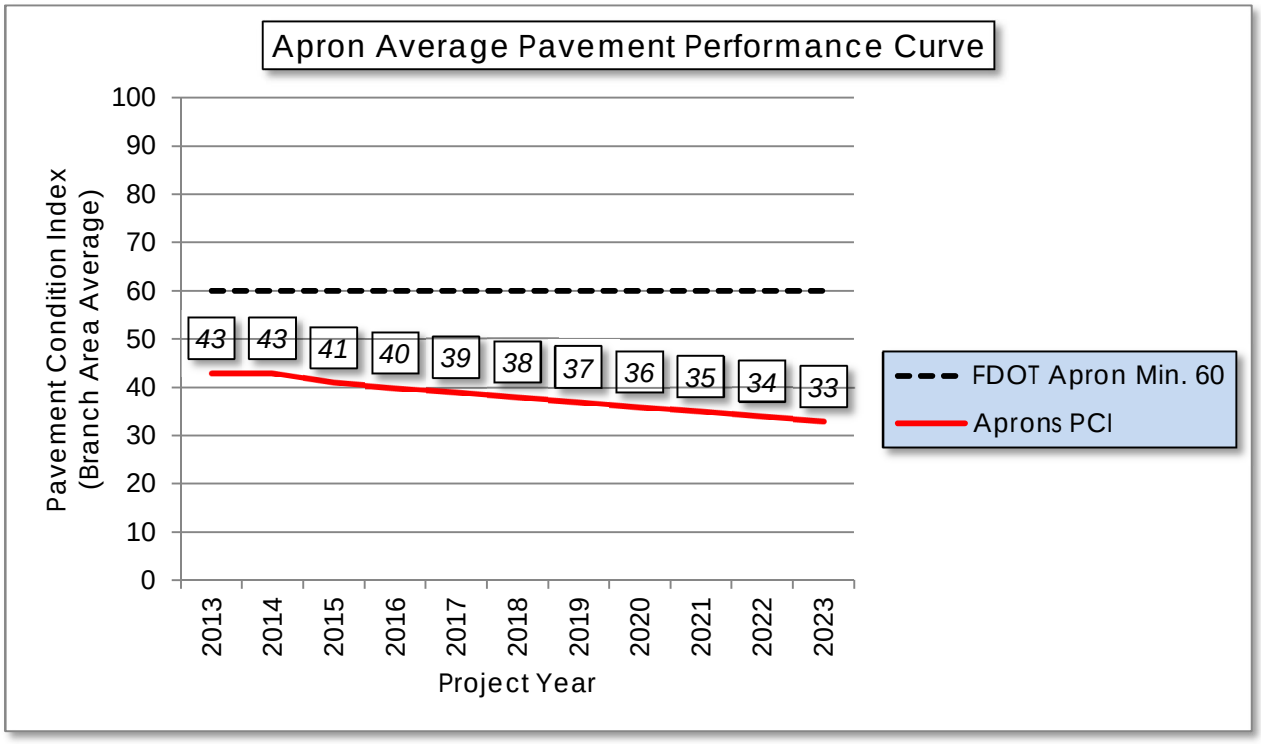


Figure 4-3: Apron Pavement Performance Prediction Summary



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 150/5380-6B 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	Crack Sealing	Linear 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 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	Slab Replacement / Full Depth Patch	Square Feet
	67	Patching, Large	M, H	Slab Replacement / Full Depth Patch	Square Feet
	68	Popouts	L	Crack Sealing - PCC	Linear 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

Surface Type	Distress Code	Distress Name	Severity	Maintenance Work Type	Work Unit
	73	Shrinkage Cracks	N/A	Crack Sealing - PCC	Linear Feet
	74	Longitudinal/Transverse Joint Spalling	L, M, H	Partial Patch - PCC	Square Feet
	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 will require a 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 current Section's 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	60	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 is 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; such as GSB-88 and Microsurfacing, 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.

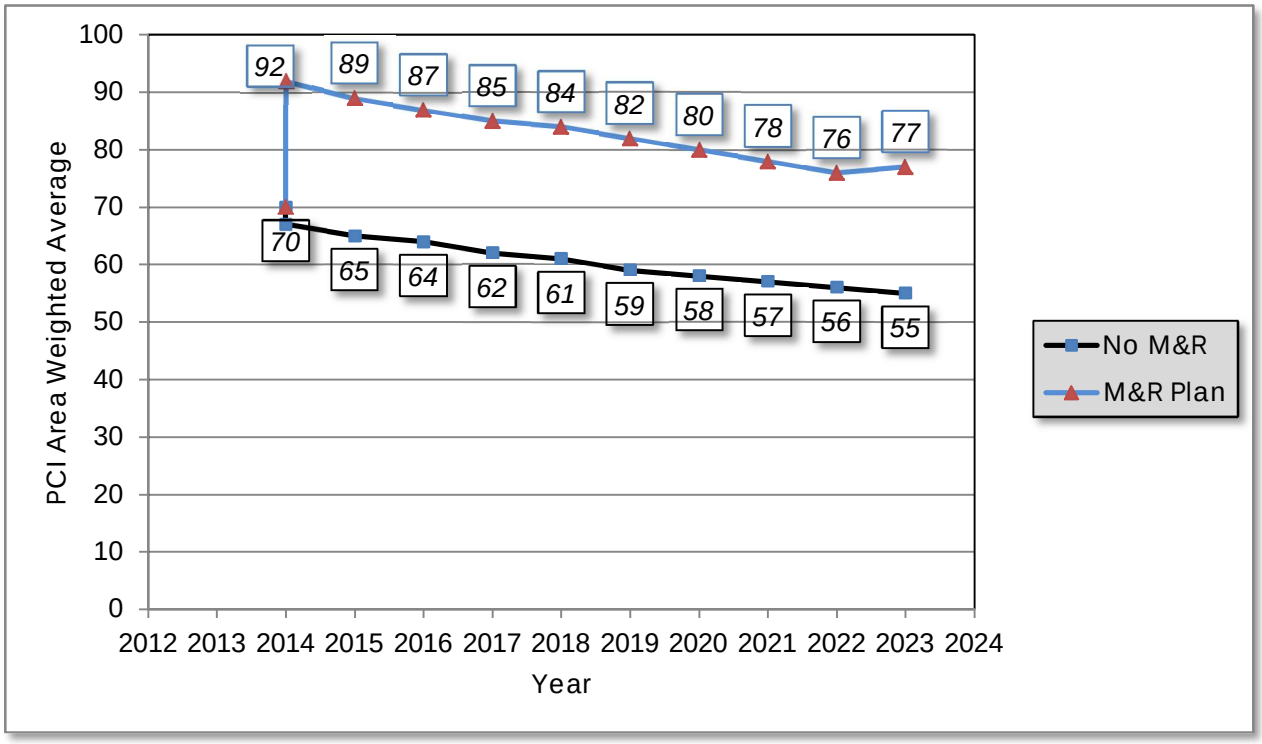
Table 6-1: Summary of Major Rehabilitation

Year	Branch ID	Section ID	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
2014	AP E	4505	$ 1,544,160.36	39	Reconstruction	100
2014	AP NW	4405	$ 840,300.20	37	Reconstruction	100
2014	AP S	4305	$ 744,075.18	31	Reconstruction	100
2014	AP HANG	4205	$ 122,040.03	22	Reconstruction	100
2014	AP W	4115	$ 248,756.69	49	Mill and Overlay	100
2014	AP W	4105	$ 1,358,700.32	35	Reconstruction	100
2014	TW E AP	710	$ 157,599.99	63	Mill and Overlay	100
2014	TW S AP	505	$ 125,250.03	31	Reconstruction	100
2014	TW HANG	407	$ 50,750.00	58	Mill and Overlay	100
2014	TW HANG	405	$ 473,550.11	17	Reconstruction	100
2014	TW W AP	305	$ 64,125.02	27	Reconstruction	100
2014	TW A2	215	$ 722,011.33	41	Mill and Overlay	100
2014	TW A2	210	$ 353,799.98	61	Mill and Overlay	100
2014	TW A	125	$ 1,056,099.95	64	Mill and Overlay	100
2016	AP W	4110	$ 155,103.57	64	PCC Restoration	100
2018	TW S	605	$ 506,647.77	65	Mill and Overlay	100
2023	TW A	103	$ 989,278.98	64	Mill and Overlay	100
		Total =	$ 9,512,249.51			

* 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 22 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

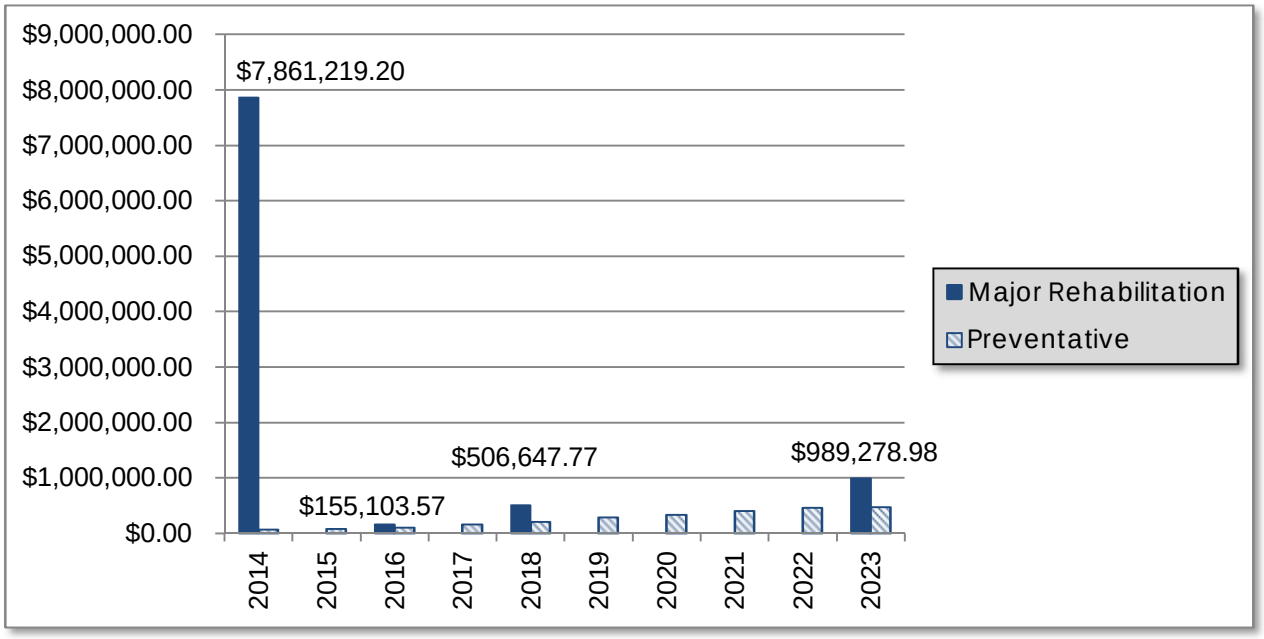
The preventative and major rehabilitation results include activities that are based on distresses observed and unconstrained by budget limits. FDOT recognizes that the projects identified as Year-1 needs in 2013, based on condition, may exceed a typical annual budget level. It is recommended that each 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 7-1provides 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
2014	$ 70,208.22	$ 7,861,219.20	$ 7,931,427.42
2015	$ 86,400.85	$ -	$ 86,400.85
2016	$ 111,243.64	$ 155,103.57	$ 266,347.22
2017	$ 163,488.01	$ -	$ 163,488.01
2018	$ 213,113.05	$ 506,647.77	$ 719,760.81
2019	$ 288,510.17	$ -	$ 288,510.17
2020	$ 339,546.13	$ -	$ 621,223.05
2021	$ 403,496.11	$ -	$ 403,496.11
2022	$ 463,770.81	$ -	$ 463,770.81
2023	$ 472,350.45	$ 989,278.98	$ 1,461,629.43
		Total =	$ 12,406,053.88

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:

- East Apron – Sections 4505
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Northwest Apron – Sections 4405
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- South Apron – Sections 4305
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Apron Hangar – Sections 4205
  - Reconstruction attributed to distresses related to load repetition, overloading, and construction quality.
- West Apron – Sections 4115
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- West Apron – Sections 4105
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.

- Taxiway to East Apron – Section 710
  - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway to South Apron – Section 505
  - Reconstruction attributed to distresses related to climate and age of pavement.
- Taxiway to Hangar – Section 407
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- Taxiway to Hangar – Section 405
  - Reconstruction attributed to distresses related to subgrade quality, loading, climate, and age of pavement.
- Taxiway to West Apron – Section 305
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway A2 – Section 210 and 215
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- Taxiway A – Section 125
  - Mill and Overlay attributed to distresses related to climate and age of pavement.

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 5340-11. 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

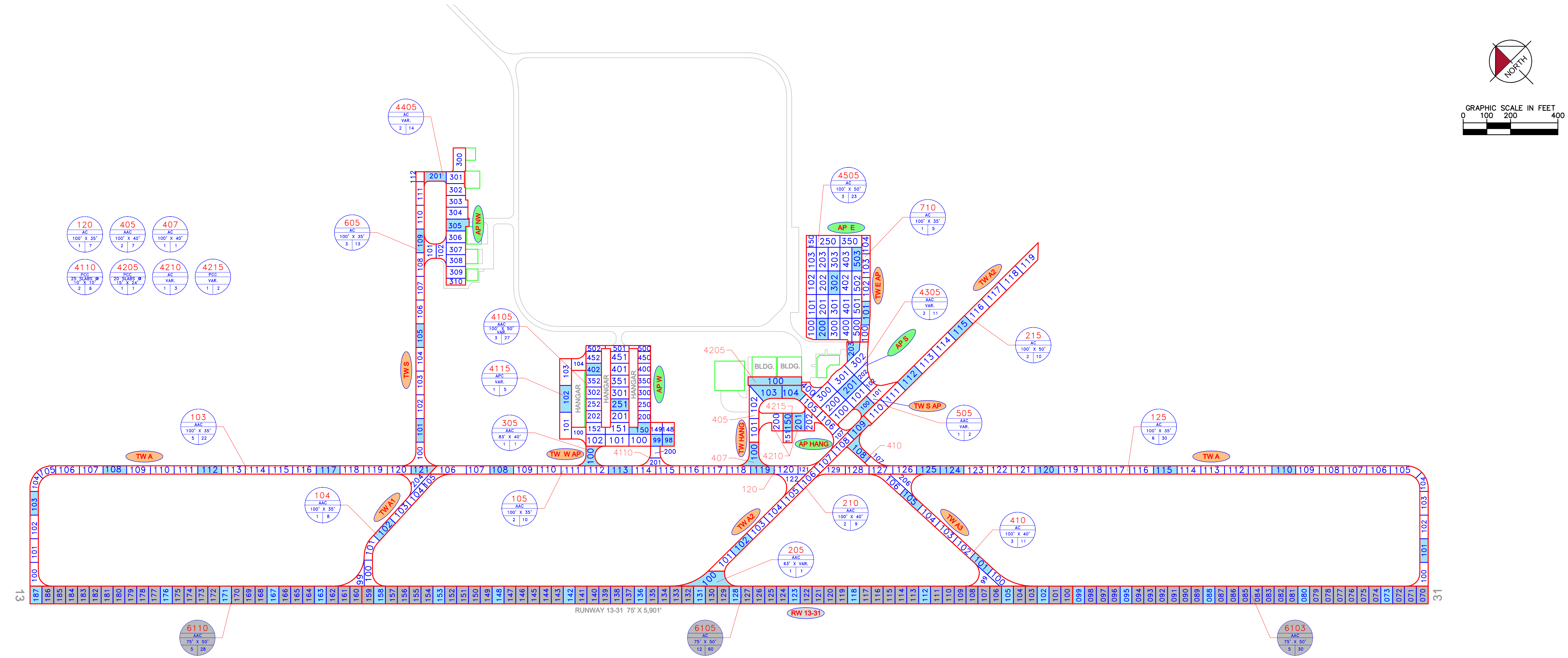
The following recommendations were made based on the 2013 condition survey inspection, condition analysis, and maintenance/rehabilitation analysis results:

- East Apron – Sections 4505
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Northwest Apron – Sections 4405
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- South Apron – Sections 4305
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Apron Hangar – Sections 4205
  - Reconstruction attributed to distresses related to load repetition, overloading, and construction quality.
- West Apron – Sections 4115
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- West Apron – Sections 4105
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway to East Apron – Section 710
  - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway to South Apron – Section 505
  - Reconstruction attributed to distresses related to climate and age of pavement.
- Taxiway to Hangar – Section 407
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- Taxiway to Hangar – Section 405
  - Reconstruction attributed to distresses related to subgrade quality, loading, climate, and age of pavement.
- Taxiway to West Apron – Section 305
  - Reconstruction attributed to distresses related to subgrade quality, climate, and age of pavement.

- Taxiway A2 – Section 210 and 215
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- Taxiway A – Section 125
  - Mill and Overlay attributed to distresses related to climate and age of pavement.
- West Apron – Section 4110
  - PCC Restoration attributed to distresses related to load repetition and construction quality.
- Taxiway S – Section 605
  - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- Taxiway A – Section 103
  - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.

APPENDIX A

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



LEGEND

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

TOTAL SAMPLES INSPECTED = 70

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:	2013

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

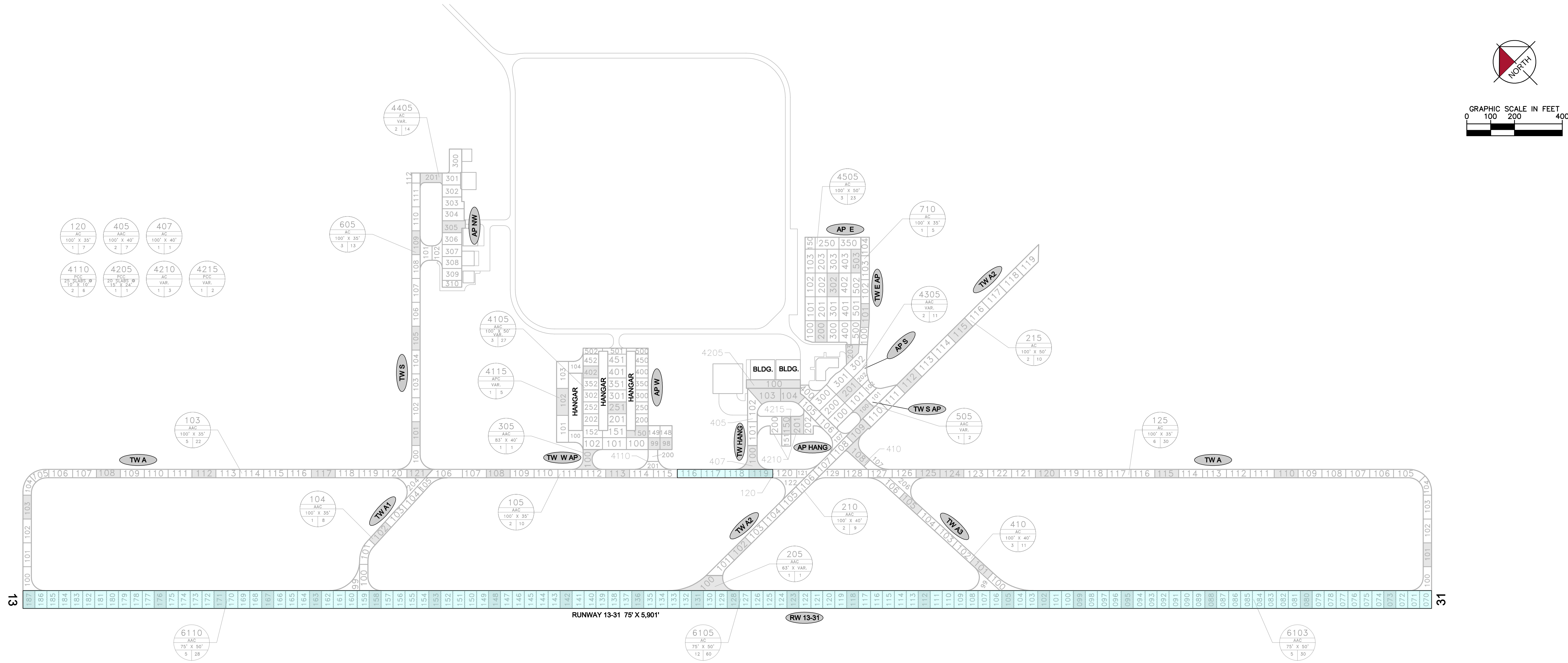
AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT

AIRGLADES AIRPORT
HENDRY COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: 2IS

FDOT DISTRICT: 1



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

CONSTRUCTION SINCE LAST INSPECTION & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2011	RUNWAY 13–31	RECONSTRUCTION Full Depth pavement rebuild (Sec. 6105) and mill and overlay of extensions (Sec. 6103 AND 6110)
2011	TAXIWAY ALPHA	RECONSTRUCTION Full Depth pavement rebuild

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: 2013

OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

AIRFIELD PAVEMENT SYSTEM INVENTORY EXHIBIT

AIRGLADES AIRPORT
HENDRY COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER: 2IS

FDOT DISTRICT: 1

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 13-31	RW 13-31	RUNWAY	6110	1,400	75	105,000	P	AAC	2/1/2011	2/1/2011	28
RUNWAY 13-31	RW 13-31	RUNWAY	6105	3,000	75	225,000	P	AC	2/1/2011	2/1/2011	60
RUNWAY 13-31	RW 13-31	RUNWAY	6103	1,500	75	112,500	P	AAC	2/1/2011	2/1/2011	30
EAST APRON	AP E	APRON	4505	440	230	102,944	P	AC	12/25/1999	6/17/2013	23
NORTHWEST APRON	AP NW	APRON	4405	500	100	56,020	P	AC	12/25/1999	6/17/2013	14
SOUTH RAMP	AP S	APRON	4305	250	165	49,605	P	AAC	1/1/1984	6/17/2013	11
CONC APRON AT HANGAR	AP HANG	APRON	4215	125	38	4,750	P	PCC	12/25/1999	6/17/2013	2
CONC APRON AT HANGAR	AP HANG	APRON	4210	200	75	14,280	P	AC	12/25/1999	6/17/2013	3
CONC APRON AT HANGAR	AP HANG	APRON	4205	36	226	8,136	P	PCC	1/1/1982	6/17/2013	1
WEST APRON AT T-HANGARS	AP W	APRON	4115	50	465	23,590	P	APC	7/31/2008	6/17/2013	5
WEST APRON AT T-HANGARS	AP W	APRON	4110	150	100	14,620	P	PCC	12/25/1999	6/17/2013	6
WEST APRON AT T-HANGARS	AP W	APRON	4105	425	200	90,580	P	AAC	1/1/1996	6/17/2013	27
TAXIWAY TO EAST APRON	TW E AP	TAXIWAY	710	480	35	15,760	P	AC	12/25/1999	6/17/2013	5
TAXIWAY S	TW S	TAXIWAY	605	1,241	35	45,015	P	AC	1/1/1996	6/17/2013	13
TAXIWAY CONNECT TO SOUTH APRON	TW S AP	TAXIWAY	505	150	50	8,350	P	AAC	1/1/1984	6/17/2013	2
TAXIWAY A3	TW A3	TAXIWAY	410	840	35	40,598	P	AC	1/1/1996	6/17/2013	11
TAXIWAY TO HANGAR	TW HANG	TAXIWAY	407	100	40	5,075	P	AC	1/1/1996	6/17/2013	1

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 TO HANGAR	TW HANG	TAXIWAY	405	655	40	31,570	P	AAC	1/1/1984	6/17/2013	7
TAXIWAY CONNECT TO W APRON	TW W AP	TAXIWAY	305	83	40	4,275	P	AAC	1/1/1984	6/17/2013	1
TAXIWAY ALPHA 2	TW A2	TAXIWAY	215	1,011	50	50,561	P	AC	1/1/1984	6/17/2013	10
TAXIWAY ALPHA 2	TW A2	TAXIWAY	210	900	40	35,380	P	AAC	1/1/1996	6/17/2013	9
TAXIWAY ALPHA 2	TW A2	TAXIWAY	205	110	63	8,075	T	AAC	1/1/1996	6/17/2013	1
TAXIWAY ALPHA	TW A	TAXIWAY	125	3,000	35	105,610	P	AC	1/1/1996	6/17/2013	30
TAXIWAY ALPHA	TW A	TAXIWAY	120	320	35	26,638	P	AC	1/1/2011	6/17/2013	7
TAXIWAY ALPHA	TW A	TAXIWAY	105	1,820	35	36,379	P	AAC	1/1/1996	6/17/2013	10
TAXIWAY ALPHA 1	TW A1	TAXIWAY	104	600	35	28,523	P	AAC	1/1/1996	6/17/2013	8
TAXIWAY ALPHA	TW A	TAXIWAY	103	2,140	35	75,820	P	AAC	1/1/1996	6/17/2013	22

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.

Network: 2IS **Branch**: AP E (EAST APRON) **Section:** 4505 **Surface:** AC
L.C.D.: 12/25/1999 **Use:** APRON **Rank** P **Length:** 440.00 Ft **Width:** 230.00 Ft **True Area:** 102,944.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
08/05/2005	MI-SF	Micro Surfacing	$0	1.50	False	This is a test
12/25/1999	INITIAL	Initial Construction	$0	0.00	True	

Network: 2IS **Branch**: AP HANG (CONC APRON AT HANGAR) **Section:** 4205 **Surface:** PCC
L.C.D.: 01/01/1982 **Use:** APRON **Rank** P **Length:** 36.00 Ft **Width:** 226.00 Ft **True Area:** 8,136.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1982	IMPORTED	BUILT			True	EST 1982 PCC

Network: 2IS **Branch**: AP HANG (CONC APRON AT HANGAR) **Section:** 4210 **Surface:** AC
L.C.D.: 12/25/1999 **Use:** APRON **Rank** P **Length:** 200.00 Ft **Width:** 75.00 Ft **True Area:** 14,280.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	INITIAL	Initial Construction	$0	0.00	True	

Network: 2IS **Branch**: AP HANG (CONC APRON AT HANGAR) **Section:** 4215 **Surface:** PCC
L.C.D.: 12/25/1999 **Use:** APRON **Rank** P **Length:** 125.00 Ft **Width:** 38.00 Ft **True Area:** 4,750.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	INITIAL	Initial Construction	$0	0.00	True	

Network: 2IS **Branch**: AP NW (NORTHWEST APRON) **Section:** 4405 **Surface:** AC
L.C.D.: 12/25/1999 **Use:** APRON **Rank** P **Length:** 500.00 Ft **Width:** 100.00 Ft **True Area:** 56,020.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	INITIAL	Initial Construction	$0	0.00	True	

Network: 2IS **Branch**: AP S (SOUTH RAMP) **Section:** 4305 **Surface:** AAC
L.C.D.: 01/01/1984 **Use:** APRON **Rank** P **Length:** 250.00 Ft **Width:** 165.00 Ft **True Area:** 49,605.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1984	IMPORTED	BUILT			True	1984 BIT OL

Network: 2IS **Branch**: AP W (WEST APRON AT T-HANGARS) **Section:** 4105 **Surface:** AAC
L.C.D.: 01/01/1996 **Use:** APRON **Rank** P **Length:** 425.00 Ft **Width:** 200.00 Ft **True Area:** 90,580.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	OVERLAY			True	1996 AC OVERLAY
01/01/1984	IMPORTED	BUILT			True	1984 AC OVERLAY

Network: 2IS **Branch**: AP W (WEST APRON AT T-HANGARS) **Section:** 4110 **Surface:** PCC
L.C.D.: 12/25/1999 **Use:** APRON **Rank** P **Length:** 150.00 Ft **Width:** 100.00 Ft **True Area:** 14,620.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	INITIAL	Initial Construction	$0	0.00	True	

Network: 2IS **Branch**: AP W (WEST APRON AT T-HANGARS) **Section:** 4115 **Surface:** APC
L.C.D.: 07/31/2008 **Use:** APRON **Rank** P **Length:** 50.00 Ft **Width:** 465.00 Ft **True Area:** 23,590.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
07/31/2008	SU-AC	Surface Course - AC	$0	0.00	True	
09/01/2005	NC-PC	New Construction - PCC	$0	0.00	True	

Network: 2IS **Branch**: RW 13-31 (RUNWAY 13-31) **Section:** 6103 **Surface:** AAC
L.C.D.: 02/01/2011 **Use:** RUNWAY **Rank** P **Length:** 1,500.00 Ft **Width:** 75.00 Ft **True Area:** 112,500.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2011	ML-OL	Mill and Overlay	$0	0.00	True	2011
01/01/1996	IMPORTED	BUILT			True	1996 AC PAVEMENT

Network: 2IS **Branch**: RW 13-31 (RUNWAY 13-31) **Section:** 6105 **Surface:** AC
L.C.D.: 02/01/2011 **Use:** RUNWAY **Rank** P **Length:** 3,000.00 Ft **Width:** 75.00 Ft **True Area:** 225,000.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2011	NC-AC	New Construction - AC	$0	0.00	True	4" P-401, 6" P-211 LIMEROCK BASE, 12" P-160 STAB. SUB
01/01/1996	IMPORTED	OVERLAY			True	1996 AC OVERLAY
01/01/1984	IMPORTED	BUILT			True	1984 BIT OL

Network: 2IS **Branch**: RW 13-31 (RUNWAY 13-31) **Section:** 6110 **Surface:** AAC
L.C.D.: 02/01/2011 **Use:** RUNWAY **Rank** P **Length:** 1,400.00 Ft **Width:** 75.00 Ft **True Area:** 105,000.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
02/01/2011	ML-OL	Mill and Overlay	$0	0.00	True	2011
01/01/1996	IMPORTED	BUILT			True	1996 AC PAVEMENT

Network: 2IS **Branch**: TW A (TAXIWAY ALPHA) **Section:** 103 **Surface:** AAC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** P **Length:** 2,140.00 Ft **Width:** 35.00 Ft **True Area:** 75,820.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	OVERLAY			True	1996 AC OVERLAY
01/01/1984	IMPORTED	BUILT			True	1984 AC OVERLAY

Network: 2IS **Branch**: TW A (TAXIWAY ALPHA) **Section:** 105 **Surface:** AAC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** P **Length:** 1,820.00 Ft **Width:** 35.00 Ft **True Area:** 36,379.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	OVERLAY			True	1996 AC OVERLAY
01/01/1984	IMPORTED	BUILT			True	1984 BIT OL

Network: 2IS **Branch**: TW A (TAXIWAY ALPHA) **Section:** 120 **Surface:** AC
L.C.D.: 01/01/2011 **Use:** TAXIWAY **Rank** P **Length:** 320.00 Ft **Width:** 35.00 Ft **True Area:** 26,638.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2011	NC-AC	New Construction - AC	$0	0.00	True	FULL DEPTH REPAIR
01/01/1996	IMPORTED	OVERLAY			True	1996 AC OVERLAY
01/01/1984	IMPORTED	BUILT			True	1984 BIT OL

Network: 2IS **Branch**: TW A (TAXIWAY ALPHA) **Section:** 125 **Surface:** AC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** P **Length:** 3,000.00 Ft **Width:** 35.00 Ft **True Area:** 105,610.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	BUILT			True	1996 AC PAVEMENT

Network: 2IS **Branch**: TW A1 (TAXIWAY ALPHA 1) **Section:** 104 **Surface:** AAC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** P **Length:** 600.00 Ft **Width:** 35.00 Ft **True Area:** 28,522.99 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	OL-MR	Overlay	$0	0.00	True	1996 AC OVERLAY
01/01/1984	NU-IN	New Construction - Initial	$0	0.00	True	84 BIT OL

Network: 2IS **Branch**: TW A2 **(**TAXIWAY ALPHA 2**)** **Section:** 205 **Surface:** AAC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** T **Length:** 110.00 Ft **Width:** 63.00 Ft **True Area:** 8,075.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	OVERLAY			True	1996 AC OVERLAY
01/01/1984	IMPORTED	BUILT			True	1984 AC OVERLAY

Network: 2IS **Branch**: TW A2 **(**TAXIWAY ALPHA 2**)** **Section:** 210 **Surface:** AAC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** P **Length:** 900.00 Ft **Width:** 40.00 Ft **True Area:** 35,380.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	OVERLAY			True	1996 AC OVERLAY
01/01/1984	IMPORTED	BUILT			True	1984 AC OVERLAY

Network: 2IS **Branch**: TW A2 **(**TAXIWAY ALPHA 2**)** **Section:** 215 **Surface:** AC
L.C.D.: 01/01/1984 **Use:** TAXIWAY **Rank** P **Length:** 1,011.00 Ft **Width:** 50.00 Ft **True Area:** 50,561.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1984	IMPORTED	BUILT			True	1984 AC PAVEMENT

Network: 2IS **Branch**: TW A3 **(**TAXIWAY A3**)** **Section:** 410 **Surface:** AC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** P **Length:** 840.00 Ft **Width:** 35.00 Ft **True Area:** 40,598.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	BUILT			True	1996 AC OVERLAY

Network: 2IS **Branch**: TW E AP **(**TAXIWAY TO EAST APRON**)** **Section:** 710 **Surface:** AC
L.C.D.: 12/25/1999 **Use:** TAXIWAY **Rank** P **Length:** 480.00 Ft **Width:** 35.00 Ft **True Area:** 15,760.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	INITIAL	Initial Construction	$0	0.00	True	

Network: 2IS **Branch**: TW HANG **(**TAXIWAY TO HANGAR**)** **Section:** 405 **Surface:** AAC
L.C.D.: 01/01/1984 **Use:** TAXIWAY **Rank** P **Length:** 655.00 Ft **Width:** 40.00 Ft **True Area:** 31,570.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1984	IMPORTED	BUILT			True	1984 AC OVERLAY

Network: 2IS **Branch**: TW HANG **(**TAXIWAY TO HANGAR**)** **Section:** 407 **Surface:** AC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** P **Length:** 100.00 Ft **Width:** 40.00 Ft **True Area:** 5,075.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	BUILT			True	1996 AC PAVEMENT

Network: 2IS **Branch**: TW S **(**TAXIWAY S**)** **Section:** 605 **Surface:** AC
L.C.D.: 01/01/1996 **Use:** TAXIWAY **Rank** P **Length:** 1,241.00 Ft **Width:** 35.00 Ft **True Area:** 45,015.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	BUILT			True	1996 AC PAVEMENT

Network: 2IS **Branch**: TW S AP **(**TAXIWAY CONNECT TO SOUTH APRON**)** **Section:** 505 **Surface:** AAC
L.C.D.: 01/01/1984 **Use:** TAXIWAY **Rank** P **Length:** 150.00 Ft **Width:** 50.00 Ft **True Area:** 8,350.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1984	IMPORTED	BUILT			True	1984 BIT OL

Work History Report

Pavement Database:FDOT

Network: 2IS **Branch**: TW W AP (TAXIWAY CONNECT TO W APRON) **Section:** 305 **Surface:** AAC
L.C.D.: 01/01/1984 **Use:** TAXIWAY **Rank** P **Length:** 83.00 Ft **Width:** 40.00 Ft **True Area:** 4,275.00 SqF

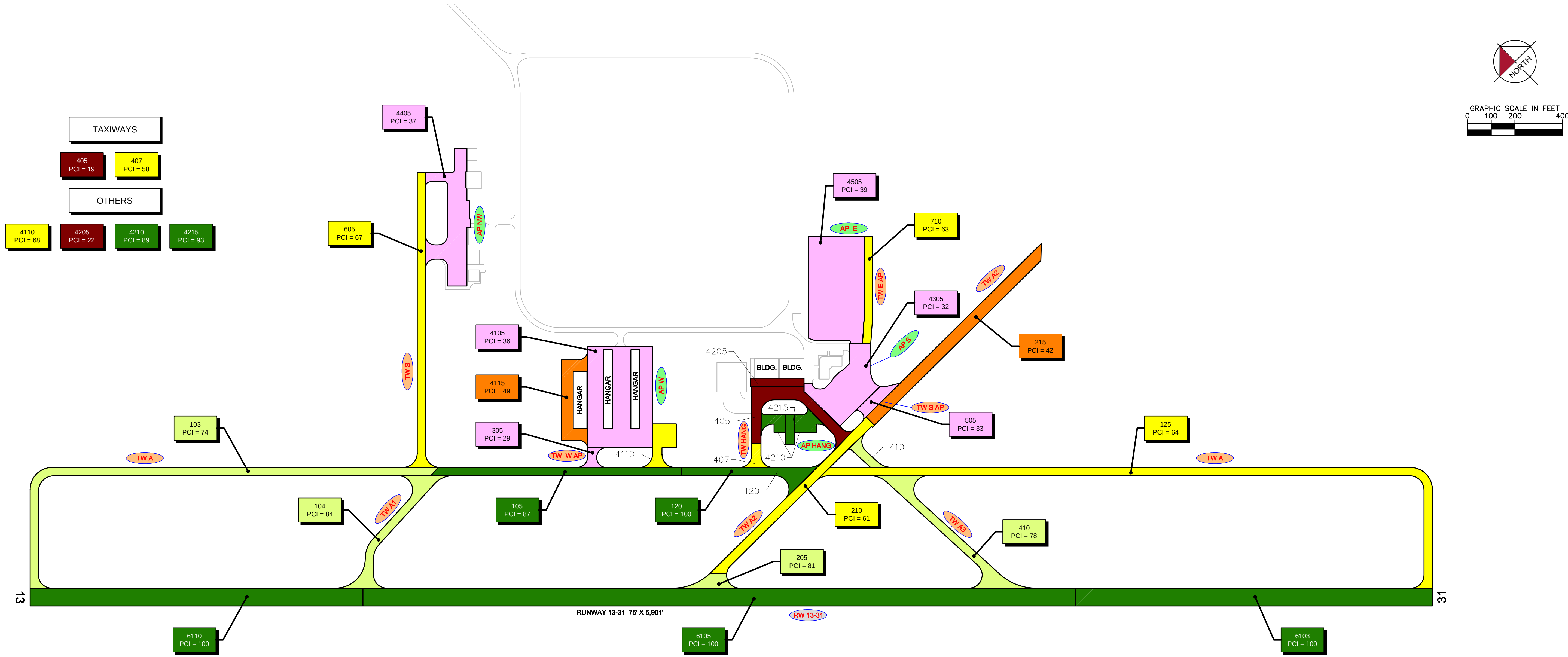
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/1996	IMPORTED	REPAIR			False	1996 AC OVERLAY
01/01/1984	IMPORTED	BUILT			True	1984 BIT OL

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	19	1,064,167.00		
Initial Construction	6	208,374.00	.00	.00
Micro Surfacing	1	102,944.00	1.50	
Mill and Overlay	2	217,500.00	.00	.00
New Construction - AC	2	251,638.00	.00	.00
New Construction - Initial	1	28,522.99	.00	
New Construction - PCC	1	23,590.00	.00	
OVERLAY	8	526,394.99	.00	
REPAIR	1	4,275.00		
Surface Course - AC	1	23,590.00	.00	

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
	PCI 86–100 GOOD
	PCI 71–85 SATISFACTORY
	PCI 56–70 FAIR
	PCI 41–55 POOR
	PCI 26–40 VERY POOR
	PCI 11–25 SERIOUS
	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.

NUMBER	DATE	REVISIONS

DESIGNED: KHA DRAWN: KHA CHECKED: KHA DATE: 2013

OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

AIRFIELD PAVEMENT CONDITION INDEX RATING EXHIBIT

AIRGLADES AIRPORT
HENDRY COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER 2IS

FDOT DISTRICT 1

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 Samples Inspected	Total Samples
RUNWAY 13-31	RW 13-31	RUNWAY	6110	105,000	P	AAC	100	Good	5	28
RUNWAY 13-31	RW 13-31	RUNWAY	6105	225,000	P	AC	100	Good	12	60
RUNWAY 13-31	RW 13-31	RUNWAY	6103	112,500	P	AAC	100	Good	5	30
EAST APRON	AP E	APRON	4505	102,944	P	AC	39	Very Poor	3	23
NORTHWEST APRON	AP NW	APRON	4405	56,020	P	AC	37	Very Poor	2	14
SOUTH RAMP	AP S	APRON	4305	49,605	P	AAC	32	Very Poor	2	11
CONC APRON AT HANGAR	AP HANG	APRON	4215	4,750	P	PCC	93	Good	1	2
CONC APRON AT HANGAR	AP HANG	APRON	4210	14,280	P	AC	89	Good	1	3
CONC APRON AT HANGAR	AP HANG	APRON	4205	8,136	P	PCC	22	Serious	1	1
WEST APRON AT T-HANGARS	AP W	APRON	4115	23,590	P	APC	49	Poor	1	5
WEST APRON AT T-HANGARS	AP W	APRON	4110	14,620	P	PCC	68	Fair	2	6
WEST APRON AT T-HANGARS	AP W	APRON	4105	90,580	P	AAC	36	Very Poor	3	27
TAXIWAY TO EAST APRON	TW E AP	TAXIWAY	710	15,760	P	AC	63	Fair	1	5
TAXIWAY S	TW S	TAXIWAY	605	45,015	P	AC	67	Fair	3	13
TAXIWAY CONNECT TO SOUTH APRON	TW S AP	TAXIWAY	505	8,350	P	AAC	33	Very Poor	1	2
TAXIWAY A3	TW A3	TAXIWAY	410	40,598	P	AC	78	Satisfactory	3	11
TAXIWAY TO HANGAR	TW HANG	TAXIWAY	407	5,075	P	AC	58	Fair	1	1
TAXIWAY TO HANGAR	TW HANG	TAXIWAY	405	31,570	P	AAC	19	Serious	2	7
TAXIWAY CONNECT TO W APRON	TW W AP	TAXIWAY	305	4,275	P	AAC	29	Very Poor	1	1

Branch Name	Branch ID	Branch Use	Section ID	True Area (FT^2)	Section Rank	Surface Type	PCI	PCI Category	Total Samples Inspected	Total Samples
TAXIWAY ALPHA 2	TW A2	TAXIWAY	215	50,561	P	AC	42	Poor	2	10
TAXIWAY ALPHA 2	TW A2	TAXIWAY	210	35,380	P	AAC	61	Fair	2	9
TAXIWAY ALPHA 2	TW A2	TAXIWAY	205	8,075	T	AAC	81	Satisfactory	1	1
TAXIWAY ALPHA	TW A	TAXIWAY	125	105,610	P	AC	64	Fair	6	30
TAXIWAY ALPHA	TW A	TAXIWAY	120	26,638	P	AC	100	Good	1	7
TAXIWAY ALPHA	TW A	TAXIWAY	105	36,379	P	AAC	87	Good	2	10
TAXIWAY ALPHA 1	TW A1	TAXIWAY	104	28,523	P	AAC	84	Satisfactory	1	8
TAXIWAY ALPHA	TW A	TAXIWAY	103	75,820	P	AAC	74	Satisfactory	5	22

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.

APPENDIX C

- BRANCH CONDITION REPORT
- SECTION CONDITION REPORT

Date: 9 /16/2013

Branch Condition Report

Pavement Database: FDOT NetworkID: 2IS

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 E (EAST APRON)	1	440.00	230.00	102,944.00	APRON	39.00	0.00	39.00
AP HANG (CONC APRON AT HANGAR)	3	361.00	113.00	27,166.00	APRON	68.00	32.57	69.63
AP NW (NORTHWEST APRON)	1	500.00	100.00	56,020.00	APRON	37.00	0.00	37.00
AP S (SOUTH RAMP)	1	250.00	165.00	49,605.00	APRON	32.00	0.00	32.00
AP W (WEST APRON AT T-HANGARS)	3	625.00	255.00	128,790.00	APRON	51.00	13.14	42.01
RW 13-31 (RUNWAY 13-31)	3	5,900.00	75.00	442,500.00	RUNWAY	100.00	0.00	100.00
TW A (TAXIWAY ALPHA)	4	7,280.00	35.00	244,447.00	TAXIWAY	81.25	13.55	74.45
TW A1 (TAXIWAY ALPHA 1)	1	600.00	35.00	28,522.99	TAXIWAY	84.00	0.00	84.00
TW A2 (TAXIWAY ALPHA 2)	3	2,021.00	51.00	94,016.00	TAXIWAY	61.33	15.92	52.50
TW A3 (TAXIWAY A3)	1	840.00	35.00	40,598.00	TAXIWAY	78.00	0.00	78.00
TW E AP (TAXIWAY TO EAST APRON)	1	480.00	35.00	15,760.00	TAXIWAY	63.00	0.00	63.00
TW HANG (TAXIWAY TO HANGAR)	2	755.00	40.00	36,645.00	TAXIWAY	38.50	19.50	24.40
TW S (TAXIWAY S)	1	1,241.00	35.00	45,015.00	TAXIWAY	67.00	0.00	67.00
TW S AP (TAXIWAY CONNECT TO SOUTH APRON)	1	150.00	50.00	8,350.00	TAXIWAY	33.00	0.00	33.00
TW W AP (TAXIWAY CONNECT TO W APRON)	1	83.00	40.00	4,275.00	TAXIWAY	29.00	0.00	29.00

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	9	364,525.00	51.67	24.18	41.09
RUNWAY	3	442,500.00	100.00	0.00	100.00
TAXIWAY	15	517,628.99	62.67	22.41	65.68
All	27	1,324,653.99	63.15	25.86	70.38

Date: 9 /16/2013

Section Condition Report

Pavement Database: FDOT *NetworkID: 2IS*

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
AP E (EAST APRON)	4505	12/25/1999	AC	APRON	P	0	102,944.00	06/17/2013	14	39.00
AP HANG (CONC APRON AT HANGAR)	4205	01/01/1982	PCC	APRON	P	0	8,136.00	06/17/2013	31	22.00
AP HANG (CONC APRON AT HANGAR)	4210	12/25/1999	AC	APRON	P	0	14,280.00	06/17/2013	14	89.00
AP HANG (CONC APRON AT HANGAR)	4215	12/25/1999	PCC	APRON	P	0	4,750.00	06/17/2013	14	93.00
AP NW (NORTHWEST APRON)	4405	12/25/1999	AC	APRON	P	0	56,020.00	06/17/2013	14	37.00
AP S (SOUTH RAMP)	4305	01/01/1984	AAC	APRON	P	0	49,605.00	06/17/2013	29	32.00
AP W (WEST APRON AT T-HANGARS)	4105	01/01/1996	AAC	APRON	P	0	90,580.00	06/17/2013	17	36.00
AP W (WEST APRON AT T-HANGARS)	4110	12/25/1999	PCC	APRON	P	0	14,620.00	06/17/2013	14	68.00
AP W (WEST APRON AT T-HANGARS)	4115	07/31/2008	APC	APRON	P	0	23,590.00	06/17/2013	5	49.00
RW 13-31 (RUNWAY 13-31)	6103	02/01/2011	AAC	RUNWAY	P	0	112,500.00	02/01/2011	0	100.00
RW 13-31 (RUNWAY 13-31)	6105	02/01/2011	AC	RUNWAY	P	0	225,000.00	02/01/2011	0	100.00
RW 13-31 (RUNWAY 13-31)	6110	02/01/2011	AAC	RUNWAY	P	0	105,000.00	02/01/2011	0	100.00
TW A (TAXIWAY ALPHA)	103	01/01/1996	AAC	TAXIWAY	P	0	75,820.00	06/17/2013	17	74.00
TW A (TAXIWAY ALPHA)	105	01/01/1996	AAC	TAXIWAY	P	0	36,379.00	06/17/2013	17	87.00
TW A (TAXIWAY ALPHA)	120	01/01/2011	AC	TAXIWAY	P	0	26,638.00	06/17/2013	2	100.00
TW A (TAXIWAY ALPHA)	125	01/01/1996	AC	TAXIWAY	P	0	105,610.00	06/17/2013	17	64.00
TW A1 (TAXIWAY ALPHA 1)	104	01/01/1996	AAC	TAXIWAY	P	0	28,522.99	06/17/2013	17	84.00
TW A2 (TAXIWAY ALPHA 2)	205	01/01/1996	AAC	TAXIWAY	T	0	8,075.00	06/17/2013	17	81.00
TW A2 (TAXIWAY ALPHA 2)	210	01/01/1996	AAC	TAXIWAY	P	0	35,380.00	06/17/2013	17	61.00
TW A2 (TAXIWAY ALPHA 2)	215	01/01/1984	AC	TAXIWAY	P	0	50,561.00	06/17/2013	29	42.00
TW A3 (TAXIWAY A3)	410	01/01/1996	AC	TAXIWAY	P	0	40,598.00	06/17/2013	17	78.00
TW E AP (TAXIWAY TO EAST APRON)	710	12/25/1999	AC	TAXIWAY	P	0	15,760.00	06/17/2013	14	63.00
TW HANG (TAXIWAY TO HANGAR)	405	01/01/1984	AAC	TAXIWAY	P	0	31,570.00	06/17/2013	29	19.00
TW HANG (TAXIWAY TO HANGAR)	407	01/01/1996	AC	TAXIWAY	P	0	5,075.00	06/17/2013	17	58.00
TW S (TAXIWAY S)	605	01/01/1996	AC	TAXIWAY	P	0	45,015.00	06/17/2013	17	67.00
TW S AP (TAXIWAY CONNECT TO SOUTH APRON)	505	01/01/1984	AAC	TAXIWAY	P	0	8,350.00	06/17/2013	29	33.00

Section Condition Report

Pavement Database: FDOT NetworkID: 2IS

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
TW W AP (TAXIWAY CONNECT TO W APRON)	305	01/01/1984	AAC	TAXIWAY	P	0	4,275.00	06/17/2013	29	29.00

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	**0.50**	**469,138.00**	**4**	**100.00**	**0.00**	**100.00**
03-05	**5.00**	**23,590.00**	**1**	**49.00**	**0.00**	**49.00**
11-15	**14.00**	**208,374.00**	**6**	**64.83**	**23.80**	**46.97**
16-20	**17.00**	**471,054.99**	**10**	**69.00**	**15.28**	**64.71**
26-30	**29.00**	**144,361.00**	**5**	**31.00**	**8.28**	**32.63**
31-35	**31.00**	**8,136.00**	**1**	**22.00**	**0.00**	**22.00**
All	**16.19**	**1,324,653.99**	**27**	**63.15**	**26.36**	**70.38**

APPENDIX D

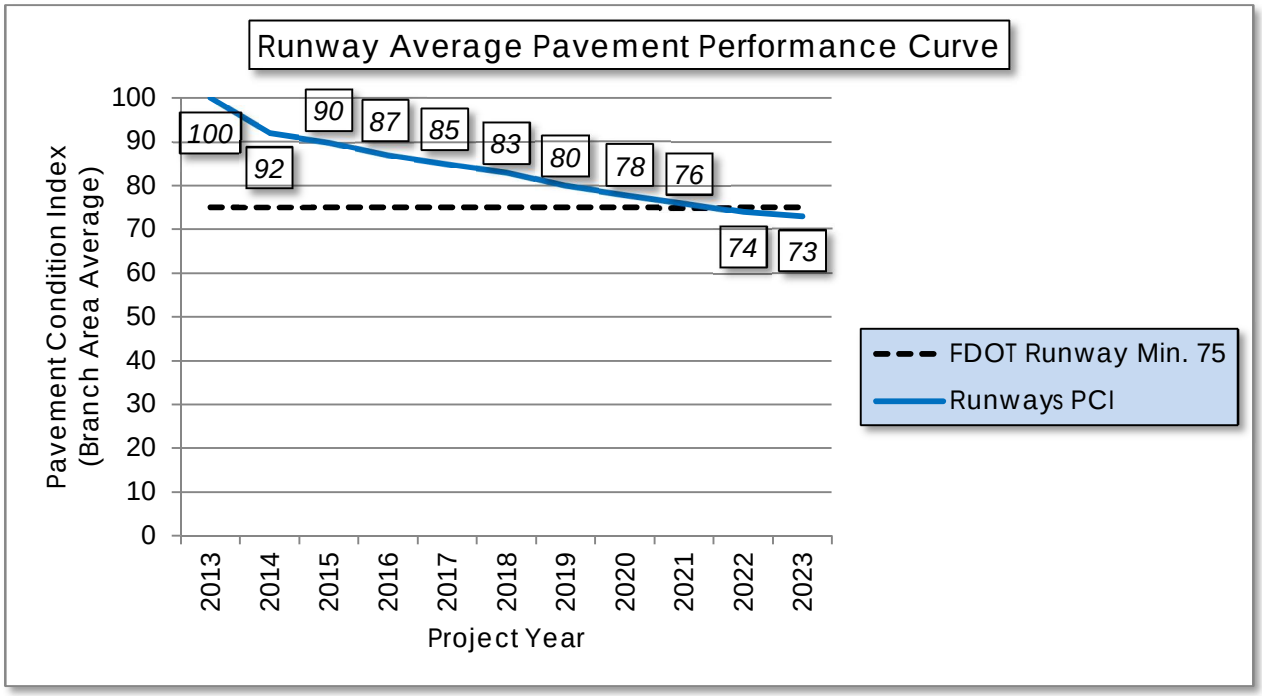
- PAVEMENT PERFORMANCE PREDICTION
- PAVEMENT PERFORMANCE BY PAVEMENT USE

Table D-1: Pavement Performance Prediction

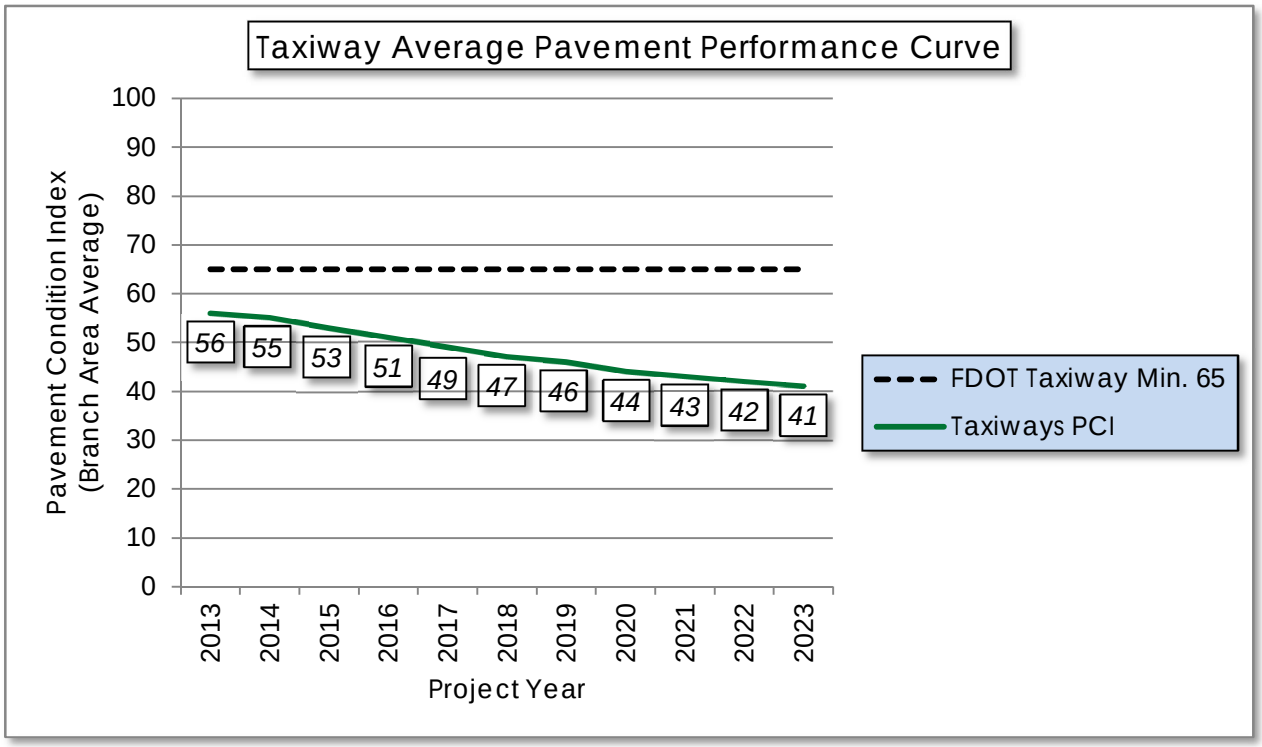
Branch ID	Section ID	Current PCI	Pavement Performance Model - PCI									
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
RW 13-31	6110	100	92	89	86	83	81	78	76	73	71	69
RW 13-31	6105	100	94	91	89	87	86	84	82	80	78	77
RW 13-31	6103	100	92	89	86	83	81	78	76	73	71	69
AP E	4505	39	39	39	38	38	38	38	38	37	37	37
AP NW	4405	37	37	37	36	36	36	36	36	36	36	36
AP S	4305	32	31	29	27	25	23	21	19	18	16	14
AP HANG	4215	89	91	88	85	82	79	77	74	71	69	67
AP HANG	4210	93	87	83	80	77	75	73	72	71	69	69
AP HANG	4205	22	22	22	22	22	21	21	21	21	21	21
AP W	4115	68	49	49	49	48	48	48	48	48	48	47
AP W	4110	49	67	65	63	61	60	58	57	56	56	55
AP W	4105	36	35	33	31	29	27	25	23	22	20	18
TW E AP	710	63	63	63	62	62	62	61	61	60	60	59
TW S	605	67	67	66	65	65	65	64	64	64	64	64
TW S AP	505	33	31	27	24	20	16	13	9	6	2	0
TW A3	410	78	77	75	73	72	71	69	68	67	67	66
TW HANG	407	58	58	57	56	55	54	53	51	50	49	48
TW HANG	405	19	17	13	10	6	2	0	0	0	0	0
TW W AP	305	29	27	23	20	16	12	9	5	2	0	0
TW A2	215	42	41	40	40	39	38	37	37	36	36	36
TW A2	210	61	61	60	59	59	58	58	57	57	57	57
TW A2	205	81	80	79	77	76	74	73	72	71	70	68
TW A	125	64	64	64	64	63	63	63	63	63	62	62
TW A	120	100	99	96	93	90	88	85	83	81	78	76
TW A	105	87	86	84	82	80	79	77	76	75	73	72
TW A1	104	84	83	81	80	78	77	75	74	73	72	70
TW A	103	74	73	72	71	70	69	67	66	65	64	63

Figure D-1: Pavement Performance by Pavement Use

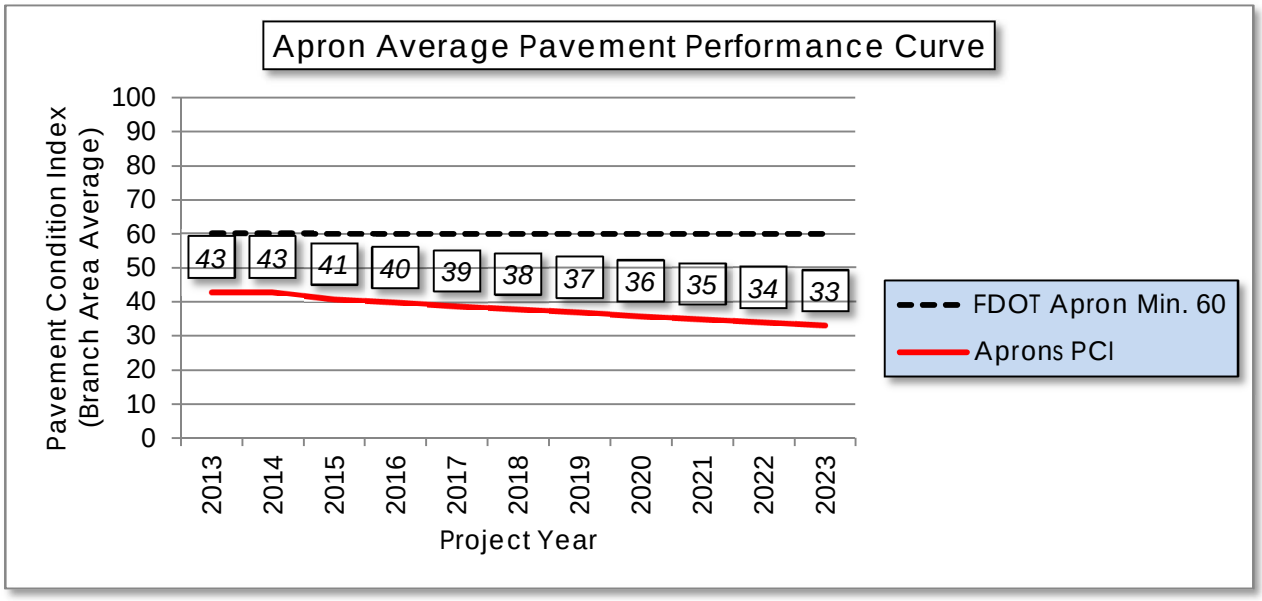
(a) Runway



(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
43
43
41
40
39
38
37
36
35
34
33
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
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
EAST APRON	AP E	4505	BLOCK CR	L	Surface Seal	56,354.00	SqFt	$0.55	$ 30,994.97
EAST APRON	AP E	4505	BLOCK CR	M	Patching - AC Full Depth	46,586.00	SqFt	$5.00	$ 232,930.13
EAST APRON	AP E	4505	DEPRESSION	L	Patching - AC Full Depth	1,266.20	SqFt	$5.00	$ 6,331.03
EAST APRON	AP E	4505	RAVELING	L	Surface Seal	102,940.00	SqFt	$0.55	$ 56,617.47
NORTHWEST APRON	AP NW	4405	DEPRESSION	L	Patching - AC Full Depth	1,486.30	SqFt	$5.00	$ 7,431.58
NORTHWEST APRON	AP NW	4405	DEPRESSION	M	Patching - AC Full Depth	1,711.30	SqFt	$5.00	$ 8,556.42
NORTHWEST APRON	AP NW	4405	L & T CR	L	Crack Sealing - AC	2,837.40	Ft	$2.75	$ 7,802.80
NORTHWEST APRON	AP NW	4405	RAVELING	M	Surface Seal	34,836.40	SqFt	$0.55	$ 19,160.19
NORTHWEST APRON	AP NW	4405	RAVELING	L	Surface Seal	21,183.60	SqFt	$0.55	$ 11,651.07
SOUTH RAMP	AP S	4305	DEPRESSION	L	Patching - AC Full Depth	3,332.40	SqFt	$5.00	$ 16,661.95
SOUTH RAMP	AP S	4305	L & T CR	M	Crack Sealing - AC	208.30	Ft	$2.75	$ 572.91
SOUTH RAMP	AP S	4305	L & T CR	L	Crack Sealing - AC	1,500.00	Ft	$2.75	$ 4,124.96
SOUTH RAMP	AP S	4305	PATCHING	H	Patching - AC Full Depth	1,286.10	SqFt	$5.00	$ 6,430.34
SOUTH RAMP	AP S	4305	RAVELING	M	Surface Seal	26,041.40	SqFt	$0.55	$ 14,322.91

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
SOUTH RAMP	AP S	4305	RAVELING	L	Surface Seal	15,232.70	SqFt	$0.55	$ 8,378.07
CONCRETE APRON AT HANGAR	AP HANG	4215	JT SEAL DMG	M	Joint Seal – PCC	589.10	Ft	$3.00	$ 1,767.43
CONCRETE APRON AT HANGAR	AP HANG	4210	L & T CR	L	Crack Sealing - AC	121.50	Ft	$2.75	$ 334.01
CONCRETE APRON AT HANGAR	AP HANG	4205	CORNER BREAK	H	Patching - PCC Partial Depth	64.60	SqFt	$19.10	$ 1,233.54
CONCRETE APRON AT HANGAR	AP HANG	4205	CORNER BREAK	M	Patching - PCC Partial Depth	64.60	SqFt	$19.10	$ 1,233.54
CONCRETE APRON AT HANGAR	AP HANG	4205	JT SEAL DMG	L	Joint Seal – PCC	538.60	Ft	$3.00	$ 1,615.82
CONCRETE APRON AT HANGAR	AP HANG	4205	SHAT. SLAB	L	Slab Replacement - PCC	2,880.00	SqFt	$45.00	$ 129,600.01
CONCRETE APRON AT HANGAR	AP HANG	4205	SHRINKAGE CR	N	Crack Sealing - PCC	19.70	Ft	$4.25	$ 83.66
CONCRETE APRON AT HANGAR	AP HANG	4205	JOINT SPALL	L	Patching - PCC Partial Depth	10.80	SqFt	$19.10	$ 205.59
CONCRETE APRON AT HANGAR	AP HANG	4205	CORNER SPALL	M	Patching - PCC Partial Depth	2.70	SqFt	$19.10	$ 51.40
CONCRETE APRON AT HANGAR	AP HANG	4205	CORNER SPALL	L	Patching - PCC Partial Depth	2.70	SqFt	$19.10	$ 51.40
WEST APRON AT T-HANGARS	AP W	4115	L & T CR	L	Crack Sealing - AC	104.40	Ft	$2.75	$ 287.05
WEST APRON AT T-HANGARS	AP W	4115	PATCHING	H	Patching - AC Full Depth	144.50	SqFt	$5.00	$ 722.48
WEST APRON AT T-HANGARS	AP W	4115	RAVELING	M	Surface Seal	6,262.80	SqFt	$0.55	$ 3,444.59
WEST APRON AT T-HANGARS	AP W	4115	RAVELING	L	Surface Seal	17,227.00	SqFt	$0.55	$ 9,474.91

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
WEST APRON AT T-HANGARS	AP W	4110	JT SEAL DMG	M	Joint Seal – PCC	2,746.20	Ft	$3.00	$ 8,238.70
WEST APRON AT T-HANGARS	AP W	4110	JOINT SPALL	L	Patching - PCC Partial Depth	227.90	SqFt	$19.10	$ 4,352.36
WEST APRON AT T-HANGARS	AP W	4110	JOINT SPALL	M	Patching - PCC Partial Depth	169.70	SqFt	$19.10	$ 3,241.75
WEST APRON AT T-HANGARS	AP W	4110	CORNER SPALL	L	Patching - PCC Partial Depth	86.40	SqFt	$19.10	$ 1,650.89
WEST APRON AT T-HANGARS	AP W	4110	CORNER SPALL	M	Patching - PCC Partial Depth	7.90	SqFt	$19.10	$ 150.08
WEST APRON AT T-HANGARS	AP W	4105	BLOCK CR	L	Surface Seal	85,078.30	SqFt	$0.55	$ 46,793.45
WEST APRON AT T-HANGARS	AP W	4105	DEPRESSION	L	Patching - AC Full Depth	3,334.40	SqFt	$5.00	$ 16,671.96
WEST APRON AT T-HANGARS	AP W	4105	RAVELING	M	Surface Seal	57,825.80	SqFt	$0.55	$ 31,804.46
WEST APRON AT T-HANGARS	AP W	4105	RAVELING	L	Surface Seal	32,754.20	SqFt	$0.55	$ 18,014.95
TAXIWAY TO EAST APRON	TW E AP	710	DEPRESSION	L	Patching - AC Full Depth	958.00	SqFt	$5.00	$ 4,790.07
TAXIWAY TO EAST APRON	TW E AP	710	L & T CR	L	Crack Sealing - AC	828.50	Ft	$2.75	$ 2,278.44
TAXIWAY TO EAST APRON	TW E AP	710	RAVELING	L	Surface Seal	15,760.00	SqFt	$0.55	$ 8,668.07
TAXIWAY S	TW S	605	L & T CR	L	Crack Sealing - AC	2,808.10	Ft	$2.75	$ 7,722.21
TAXIWAY S	TW S	605	PATCHING	M	Crack Sealing - AC	420.70	Ft	$2.75	$ 1,156.82
TAXIWAY S	TW S	605	RAVELING	L	Surface Seal	13,770.30	SqFt	$0.55	$ 7,573.73

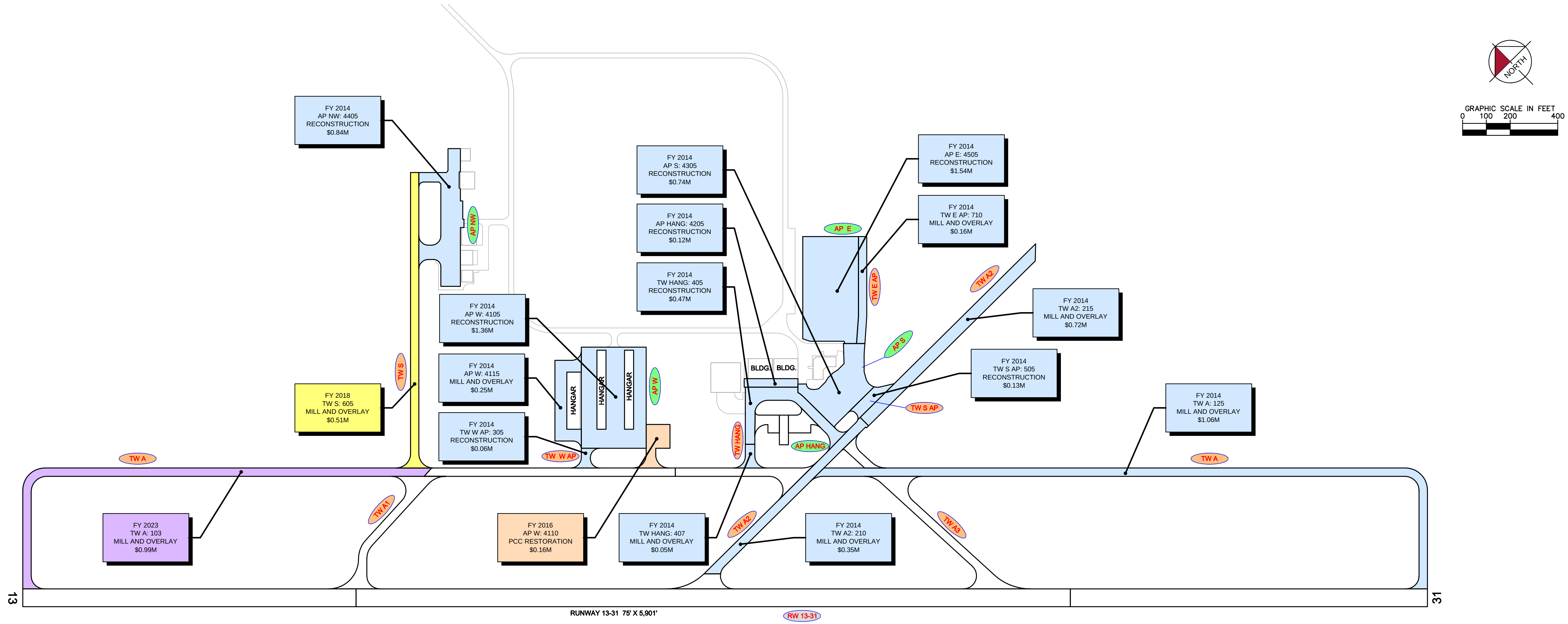
Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY CONNECT TO SOUTH APRON	TW S AP	505	BLOCK CR	L	Surface Seal	2,178.30	SqFt	$0.55	$ 1,198.05
TAXIWAY CONNECT TO SOUTH APRON	TW S AP	505	L & T CR	L	Crack Sealing - AC	386.50	Ft	$2.75	$ 1,062.78
TAXIWAY CONNECT TO SOUTH APRON	TW S AP	505	RAVELING	M	Surface Seal	8,350.00	SqFt	$0.55	$ 4,592.54
TAXIWAY A3	TW A3	410	L & T CR	L	Crack Sealing - AC	659.50	Ft	$2.75	$ 1,813.55
TAXIWAY A3	TW A3	410	RAVELING	L	Surface Seal	7,615.10	SqFt	$0.55	$ 4,188.32
TAXIWAY TO HANGAR	TW HANG	407	BLOCK CR	L	Surface Seal	1,872.00	SqFt	$0.55	$ 1,029.61
TAXIWAY TO HANGAR	TW HANG	407	RAVELING	M	Surface Seal	1,872.00	SqFt	$0.55	$ 1,029.61
TAXIWAY TO HANGAR	TW HANG	405	ALLIGATOR CR	M	Patching - AC Full Depth	515.10	SqFt	$5.00	$ 2,575.69
TAXIWAY TO HANGAR	TW HANG	405	BLOCK CR	L	Surface Seal	13,338.40	SqFt	$0.55	$ 7,336.18
TAXIWAY TO HANGAR	TW HANG	405	BLOCK CR	M	Patching - AC Full Depth	11,396.50	SqFt	$5.00	$ 56,982.39
TAXIWAY TO HANGAR	TW HANG	405	DEPRESSION	M	Patching - AC Full Depth	587.10	SqFt	$5.00	$ 2,935.71
TAXIWAY TO HANGAR	TW HANG	405	DEPRESSION	L	Patching - AC Full Depth	116.10	SqFt	$5.00	$ 580.36
TAXIWAY TO HANGAR	TW HANG	405	L & T CR	L	Crack Sealing - AC	255.10	Ft	$2.75	$ 701.48
TAXIWAY TO HANGAR	TW HANG	405	PATCHING	H	Patching - AC Full Depth	155.90	SqFt	$5.00	$ 779.36
TAXIWAY TO HANGAR	TW HANG	405	RAVELING	M	Surface Seal	31,460.30	SqFt	$0.55	$ 17,303.30

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY CONNECT TO WEST APRON	TW W AP	305	BLOCK CR	L	Surface Seal	1,518.00	SqFt	$0.55	$ 834.91
TAXIWAY CONNECT TO WEST APRON	TW W AP	305	DEPRESSION	L	Patching - AC Full Depth	382.60	SqFt	$5.00	$ 1,913.19
TAXIWAY CONNECT TO WEST APRON	TW W AP	305	L & T CR	M	Crack Sealing - AC	27.00	Ft	$2.75	$ 74.25
TAXIWAY CONNECT TO WEST APRON	TW W AP	305	PATCHING	M	Crack Sealing - AC	182.40	Ft	$2.75	$ 501.54
TAXIWAY CONNECT TO WEST APRON	TW W AP	305	RAVELING	M	Surface Seal	2,000.00	SqFt	$0.55	$ 1,100.01
TAXIWAY CONNECT TO WEST APRON	TW W AP	305	RAVELING	L	Surface Seal	1,771.00	SqFt	$0.55	$ 974.06
TAXIWAY A2	TW A2	215	L & T CR	L	Crack Sealing - AC	2,284.90	Ft	$2.75	$ 6,283.36
TAXIWAY A2	TW A2	215	L & T CR	M	Crack Sealing - AC	925.10	Ft	$2.75	$ 2,543.93
TAXIWAY A2	TW A2	215	RAVELING	L	Surface Seal	24,223.60	SqFt	$0.55	$ 13,323.07
TAXIWAY A2	TW A2	215	RAVELING	M	Surface Seal	24,547.10	SqFt	$0.55	$ 13,501.01
TAXIWAY A2	TW A2	210	L & T CR	L	Crack Sealing - AC	419.80	Ft	$2.75	$ 1,154.55
TAXIWAY A2	TW A2	210	L & T CR	M	Crack Sealing - AC	227.40	Ft	$2.75	$ 625.38
TAXIWAY A2	TW A2	210	RAVELING	L	Surface Seal	26,239.80	SqFt	$0.55	$ 14,432.01
TAXIWAY A2	TW A2	210	RAVELING	M	Surface Seal	3,454.90	SqFt	$0.55	$ 1,900.21
TAXIWAY A2	TW A2	205	L & T CR	L	Crack Sealing - AC	52.00	Ft	$2.75	$ 143.00

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY A2	TW A2	205	RAVELING	M	Surface Seal	26.00	SqFt	$0.55	$ 14.30
TAXIWAY A	TW A	125	L & T CR	L	Crack Sealing - AC	452.60	Ft	$2.75	$ 1,244.69
TAXIWAY A	TW A	125	RAVELING	M	Surface Seal	15,087.10	SqFt	$0.55	$ 8,298.00
TAXIWAY A	TW A	125	RAVELING	L	Surface Seal	67,389.20	SqFt	$0.55	$ 37,064.39
TAXIWAY A	TW A	105	L & T CR	L	Crack Sealing - AC	790.90	Ft	$2.75	$ 2,174.97
TAXIWAY A1	TW A1	104	L & T CR	L	Crack Sealing - AC	953.50	Ft	$2.75	$ 2,622.07
TAXIWAY A	TW A	103	L & T CR	L	Crack Sealing - AC	4,065.40	Ft	$2.75	$ 11,179.82
TAXIWAY A	TW A	103	WEATHERING	M	Surface Seal	482.90	SqFt	$0.55	$ 265.61
								Total =	$ 971,457.43

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

2014	2019
2015	2020
2016	2021
2017	2022
2018	2023

"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.

NUMBER	DATE	REVISIONS					
DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2013

K:\WPB_Aviation\142179022\CADD\PLANSHEETS\2IS - Airglades Airport\EXHIBITS\004-2IS-REHAB.dwg PLOTTED: November 18, 2013 - 3:21 PM, BY: Barus, Art

OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

AIRFIELD PAVEMENT 10-YEAR REHABILITATION EXHIBIT

AIRGLADES AIRPORT
HENDRY COUNTY, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE

IDENTIFIER 2IS
FDOT DISTRICT 1

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
2014	AP E	4505	$ 1,544,160.36	39	Reconstruction	100
2014	AP NW	4405	$ 840,300.20	37	Reconstruction	100
2014	AP S	4305	$ 744,075.18	31	Reconstruction	100
2014	AP HANG	4205	$ 122,040.03	22	Reconstruction	100
2014	AP W	4115	$ 248,756.69	49	Mill and Overlay	100
2014	AP W	4105	$ 1,358,700.32	35	Reconstruction	100
2014	TW E AP	710	$ 157,599.99	63	Mill and Overlay	100
2014	TW S AP	505	$ 125,250.03	31	Reconstruction	100
2014	TW HANG	407	$ 50,750.00	58	Mill and Overlay	100
2014	TW HANG	405	$ 473,550.11	17	Reconstruction	100
2014	TW W AP	305	$ 64,125.02	27	Reconstruction	100
2014	TW A2	215	$ 722,011.33	41	Mill and Overlay	100
2014	TW A2	210	$ 353,799.98	61	Mill and Overlay	100
2014	TW A	125	$ 1,056,099.95	64	Mill and Overlay	100
2016	AP W	4110	$ 155,103.57	64	PCC Restoration	100
2018	TW S	605	$ 506,647.77	65	Mill and Overlay	100
2023	TW A	103	$ 989,278.98	64	Mill and Overlay	100
		Total =	$ 9,512,249.51			

* Costs are adjusted for inflation AT 3%

APPENDIX G

- PHOTOGRAPHS

Apron East, Section 4505, Sample Unit 503 – Low Severity (52) Raveling, Low and Medium Severity (43) Block Cracking

Apron South, Section 4305, Sample Unit 203 – Low Severity (48) Longitudinal and Transverse Cracking, Low and Medium Severity (52) Raveling, Low Severity (45) Depression

Apron South, Section 4305, Sample Unit 201 – Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low and Medium Severity (52) Raveling, Low Severity (45) Depression

Apron South, Section 4305, Sample Unit 201 – Low and Medium Severity (48) Longitudinal and Transverse Cracking, Low and Medium Severity (52) Raveling, High Severity (50) Patching

Taxiway Hangar, Section 405, Sample Unit 104 – Low Severity (48) Longitudinal and Transverse Cracking, Medium Severity (52) Raveling, Low and Medium Severity (43) Block Cracking

Taxiway Hangar, Section 405, Sample Unit 103 – Medium Severity (52) Raveling, Medium Severity (41) Alligator Cracking, Low and Medium Severity (43) Block Cracking, Low Severity (45) Depression

Taxiway Hangar, Section 405, Sample Unit 103 – Medium Severity (52) Raveling, Low and Medium Severity (43) Block Cracking

Apron Hangar, Section 4205, Sample Unit 100 – Low Severity (65) Joint Seal Damage, Low Severity (72) Shattered Slab

Apron Hangar, Section 4205, Sample Unit 100 – Low Severity (65) Joint Seal Damage, Medium Severity (62) Corner Break

Taxiway Hangar, Section 407, Sample Unit 100 – Medium Severity (52) Raveling, Low Severity (43) Block Cracking

Taxiway Alpha, Section 103, Sample Unit 121 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (56) Swelling

Taxiway Alpha, Section 103, Sample Unit 121 – Low Severity (57) Weathering, Low Severity (56) Swelling

Taxiway South Apron, Section 505, Sample Unit 100 – Low Severity (48) Longitudinal and Transverse Cracking, Medium Severity (52) Raveling, Low Severity (43) Block Cracking

Apron West, Section 4115, Sample Unit 102 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering, Low Severity (52) Raveling, High Severity (50) Patching

Taxiway West Apron, Section 305, Sample Unit 100 – Medium Severity (48) Longitudinal and Transverse Cracking, Medium Severity (50) Patching, Low and Medium Severity (52) Raveling

Taxiway South, Section 605, Sample Unit 101 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering

Apron North West, Section 4405, Sample Unit 201 – Medium Severity (52) Raveling

APPENDIX H

- DISTRESS DATA – RE-INSPECTION REPORT

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP E Name: EAST APRON Use: APRON Area: 102,944.00SqFt

Section: 4505 of 1 From: - To: - Last Const.: 12/25/1999
Surface: AC Family: UnKnown Zone: Category: Rank: P
Area: 102,944.00SqFt Length: 440.00Ft Width: 230.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 23 Surveyed: 3
Conditions: PCI : 39
Inspection Comments:

Sample Number: 200 Type: R Area: 4,500.00SqFt PCI = 41
Sample Comments:

43 BLOCK CRACKING	M	1,500.00 SqFt	Comments:
43 BLOCK CRACKING	L	3,000.00 SqFt	Comments:
52 RAVELING	L	4,500.00 SqFt	Comments:

Sample Number: 302 Type: R Area: 5,000.00SqFt PCI = 37
Sample Comments:

43 BLOCK CRACKING	M	2,500.00 SqFt	Comments:
45 DEPRESSION	L	150.00 SqFt	Comments:
43 BLOCK CRACKING	L	2,500.00 SqFt	Comments:
52 RAVELING	L	5,000.00 SqFt	Comments:

Sample Number: 503 Type: R Area: 4,200.00SqFt PCI = 40
Sample Comments:

43 BLOCK CRACKING	L	2,000.00 SqFt	Comments:
52 RAVELING	L	4,200.00 SqFt	Comments:
43 BLOCK CRACKING	M	2,200.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP HANG Name: CONC APRON AT HANGAR Use: APRON Area: 27,166.00SqFt

Section: 4205 of 3 From: - To: - Last Const.: 01/01/1982
Surface: PCC Family: UnKnown Zone: Category: Rank: P
Area: 8,136.00SqFt Length: 36.00Ft Width: 226.00Ft
Slabs: 23 Slab Width: 15.00Ft Slab Length: 24.00Ft Joint Length: 619.40Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 1 Surveyed: 1
Conditions: PCI : 22
Inspection Comments:

Sample Number: 100 Type: R Area: 20.00Slabs PCI = 22
Sample Comments:

65 JOINT SEAL DAMAGE	L	20.00 Slabs	Comments:
62 CORNER BREAK	M	2.00 Slabs	Comments:
62 CORNER BREAK	H	2.00 Slabs	Comments:
63 LINEAR CRACKING	L	8.00 Slabs	Comments:
63 LINEAR CRACKING	M	2.00 Slabs	Comments:
67 LARGE PATCH/UTILITY	L	3.00 Slabs	Comments:
72 SHATTERED SLAB	L	8.00 Slabs	Comments:
73 SHRINKAGE CRACKING	N	4.00 Slabs	Comments:
74 JOINT SPALLING	L	4.00 Slabs	Comments:
75 CORNER SPALLING	L	1.00 Slabs	Comments:
75 CORNER SPALLING	M	1.00 Slabs	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP HANG Name: CONC APRON AT HANGAR Use: APRON Area: 27,166.00SqFt

Section: 4210 of 3 From: - To: - Last Const.: 12/25/1999
Surface: AC Family: UnKnown Zone: Category: Rank: P
Area: 14,280.00SqFt Length: 200.00Ft Width: 75.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 3 Surveyed: 1
Conditions: PCI : 89
Inspection Comments:

Sample Number: 201 Type: R Area: 4,115.00SqFt PCI = 89
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	35.00	Ft	Comments:
57 WEATHERING	L	4,105.00	SqFt	Comments:
57 WEATHERING	L	10.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP HANG Name: CONC APRON AT HANGAR Use: APRON Area: 27,166.00SqFt

Section: 4215 of 3 From: - To: - Last Const.: 12/25/1999
Surface: PCC Family: UnKnown Zone: Category: Rank: P
Area: 4,750.00SqFt Length: 125.00Ft Width: 38.00Ft
Slabs: 30 Slab Width: 12.50Ft Slab Length: 12.50Ft Joint Length: 597.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 2 Surveyed: 1
Conditions: PCI : 93
Inspection Comments:

Sample Number: 150 Type: R Area: 18.00Slabs PCI = 93
Sample Comments:

65	JOINT SEAL DAMAGE	M	18.00 Slabs	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP NW Name: NORTHWEST APRON Use: APRON Area: 56,020.00SqFt

Section: 4405 of 1 From: - To: - Last Const.: 12/25/1999
Surface: AC Family: UnKnown Zone: Category: Rank: P
Area: 56,020.00SqFt Length: 500.00Ft Width: 100.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 14 Surveyed: 2
Conditions: PCI : 37
Inspection Comments:

Sample Number: 201 Type: R Area: 3,818.00SqFt PCI = 38
Sample Comments:

52 RAVELING	M	3,818.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	41.00	Ft	Comments:

Sample Number: 305 Type: R Area: 4,573.00SqFt PCI = 35
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	384.00	Ft	Comments:
45 DEPRESSION	M	232.00	SqFt	Comments:
45 DEPRESSION	L	200.00	SqFt	Comments:
52 RAVELING	L	3,173.00	SqFt	Comments:
52 RAVELING	M	1,400.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP S Name: SOUTH RAMP Use: APRON Area: 49,605.00SqFt

Section: 4305 of 1 From: - To: - Last Const.: 01/01/1984
Surface: AAC Family: UnKnown Zone: Category: Rank: P
Area: 49,605.00SqFt Length: 250.00Ft Width: 165.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 9 Surveyed: 2
Conditions: PCI : 32
Inspection Comments:

Sample Number: 201 Type: R Area: 5,000.00SqFt PCI = 23
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	210.00 Ft	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	M	40.00 Ft	Comments:
45	DEPRESSION	L	126.00 SqFt	Comments:
45	DEPRESSION	L	220.00 SqFt	Comments:
50	PATCHING	H	220.00 SqFt	Comments:
52	RAVELING	L	780.00 SqFt	Comments:
52	RAVELING	M	4,000.00 SqFt	Comments:

Sample Number: 203 Type: R Area: 3,144.71SqFt PCI = 45
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	78.00 Ft	Comments:
52	RAVELING	L	2,144.71 SqFt	Comments:
45	DEPRESSION	L	250.00 SqFt	Comments:
52	RAVELING	M	1,000.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP W Name: WEST APRON AT T-HANGARS Use: APRON Area: 128,790.00SqFt

Section: 4105 of 3 From: - To: - Last Const.: 01/01/1996
Surface: AAC Family: UnKnown Zone: Category: Rank: P
Area: 90,580.00SqFt Length: 425.00Ft Width: 200.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 27 Surveyed: 3
Conditions: PCI : 36
Inspection Comments:

Sample Number: 150 Type: R Area: 3,790.00SqFt PCI = 32
Sample Comments:

43 BLOCK CRACKING	L	3,790.00 SqFt	Comments:
45 DEPRESSION	L	182.00 SqFt	Comments:
45 DEPRESSION	L	117.00 SqFt	Comments:
45 DEPRESSION	L	77.00 SqFt	Comments:
52 RAVELING	L	1,790.00 SqFt	Comments:
52 RAVELING	M	2,000.00 SqFt	Comments:

Sample Number: 251 Type: R Area: 3,900.00SqFt PCI = 37
Sample Comments:

43 BLOCK CRACKING	L	3,900.00 SqFt	Comments:
52 RAVELING	L	1,400.00 SqFt	Comments:
52 RAVELING	M	2,500.00 SqFt	Comments:

Sample Number: 402 Type: R Area: 3,275.00SqFt PCI = 38
Sample Comments:

43 BLOCK CRACKING	L	2,609.00 SqFt	Comments:
52 RAVELING	L	775.00 SqFt	Comments:
52 RAVELING	M	2,500.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP W Name: WEST APRON AT T-HANGARS Use: APRON Area: 128,790.00SqFt

Section: 4110 of 3 From: - To: - Last Const.: 12/25/1999
Surface: PCC Family: UnKnown Zone: Category: Rank: P
Area: 14,620.00SqFt Length: 150.00Ft Width: 100.00Ft
Slabs: 146 Slab Width: 10.00Ft Slab Length: 10.00Ft Joint Length: 2,750.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 3 Surveyed: 2
Conditions: PCI : 68
Inspection Comments:

Sample Number: 98 Type: R Area: 25.00Slabs PCI = 73
Sample Comments:

65 JOINT SEAL DAMAGE	M	25.00 Slabs	Comments:
74 JOINT SPALLING	L	16.00 Slabs	Comments:
74 JOINT SPALLING	M	2.00 Slabs	Comments:
75 CORNER SPALLING	L	7.00 Slabs	Comments:

Sample Number: 99 Type: R Area: 25.00Slabs PCI = 64
Sample Comments:

65 JOINT SEAL DAMAGE	M	25.00 Slabs	Comments:
74 JOINT SPALLING	L	13.00 Slabs	Comments:
74 JOINT SPALLING	M	7.00 Slabs	Comments:
75 CORNER SPALLING	L	4.00 Slabs	Comments:
75 CORNER SPALLING	M	1.00 Slabs	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: AP W Name: WEST APRON AT T-HANGARS Use: APRON Area: 128,790.00SqFt

Section: 4115 of 3 From: - To: - Last Const.: 07/31/2008
Surface: APC Family: UnKnown Zone: Category: Rank: P
Area: 23,590.00SqFt Length: 50.00Ft Width: 465.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 5 Surveyed: 1
Conditions: PCI : 49
Inspection Comments:

Sample Number: 102 Type: R Area: 5,650.00SqFt PCI = 49
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	25.00 Ft	Comments:
50 PATCHING	H	24.00 SqFt	Comments:
57 WEATHERING	L	4,126.00 SqFt	Comments:
52 RAVELING	L	4,126.00 SqFt	Comments:
52 RAVELING	M	1,500.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: RW 13-31 Name: RUNWAY 13-31 Use: RUNWAY Area: 442,500.00SqFt

Section: 6103 of 3 From: - To: - Last Const.: 02/01/2011
Surface: AAC Family: FDOT-GA-RW-AAC Zone: Category: Rank: P
Area: 112,500.00SqFt Length: 1,500.00Ft Width: 75.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

NOTE: * Pre-Construction PCI *****
Last Insp. Date: 12/11/2006 Total Samples: 29 Surveyed: 5
Conditions: PCI : 91
Inspection Comments:

Sample Number: 73 Type: R Area: 3,750.00SqFt PCI = 100
Sample Comments:
<NO DISTRESSES>

Sample Number: 80 Type: R Area: 3,750.00SqFt PCI = 91
Sample Comments:

52 RAVELING	L	50.00 SqFt	Comments:
50 PATCHING	L	0.25 SqFt	Comments:
48 L & T CR	L	17.00 Ft	Comments:

Sample Number: 88 Type: R Area: 3,750.00SqFt PCI = 91
Sample Comments:

48 L & T CR	L	12.00 Ft	Comments:
50 PATCHING	L	0.25 SqFt	Comments:
52 RAVELING	L	59.00 SqFt	Comments:

Sample Number: 95 Type: R Area: 3,750.00SqFt PCI = 90
Sample Comments:

52 RAVELING	L	125.00 SqFt	Comments:
48 L & T CR	L	27.00 Ft	Comments:

Sample Number: 99 Type: R Area: 3,750.00SqFt PCI = 82
Sample Comments:

48 L & T CR	L	27.00 Ft	Comments:
52 RAVELING	L	725.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: RW 13-31 Name: RUNWAY 13-31 Use: RUNWAY Area: 442,500.00SqFt

Section: 6105 of 3 From: - To: - Last Const.: 02/01/2011
Surface: AC Family: FDOT-GA-RW-AAC Zone: Category: Rank: P
Area: 225,000.00SqFt Length: 3,000.00Ft Width: 75.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

NOTE: * Pre-Construction PCI *****
Last Insp. Date: 12/11/2006 Total Samples: 64 Surveyed: 13
Conditions: PCI : 76
Inspection Comments:

Sample Number: 102 Type: R Area: 3,750.00SqFt PCI = 76
Sample Comments:

48 L & T CR	L	25.00	Ft	Comments:
48 L & T CR	M	7.50	Ft	Comments:
56 SWELLING	L	2.00	SqFt	Comments:
52 RAVELING	L	750.00	SqFt	Comments:

Sample Number: 106 Type: R Area: 3,750.00SqFt PCI = 81
Sample Comments:

52 RAVELING	L	850.00	SqFt	Comments:
48 L & T CR	L	24.00	Ft	Comments:

Sample Number: 112 Type: R Area: 3,750.00SqFt PCI = 79
Sample Comments:

48 L & T CR	L	56.00	Ft	Comments:
56 SWELLING	L	0.50	SqFt	Comments:
50 PATCHING	L	0.50	SqFt	Comments:
52 RAVELING	L	9.00	SqFt	Comments:
45 DEPRESSION	L	1.00	SqFt	Comments:
52 RAVELING	L	600.00	SqFt	Comments:

Sample Number: 118 Type: R Area: 3,750.00SqFt PCI = 75
Sample Comments:

56 SWELLING	L	26.00	SqFt	Comments:
52 RAVELING	L	950.00	SqFt	Comments:
50 PATCHING	L	0.25	SqFt	Comments:
48 L & T CR	L	122.00	Ft	Comments:
52 RAVELING	L	60.00	SqFt	Comments:

Sample Number: 123 Type: R Area: 3,750.00SqFt PCI = 77
Sample Comments:

50 PATCHING	L	0.50	SqFt	Comments:
48 L & T CR	M	45.00	Ft	Comments:
48 L & T CR	L	15.00	Ft	Comments:
52 RAVELING	L	535.00	SqFt	Comments:

Sample Number: 128 Type: R Area: 3,750.00SqFt PCI = 80
Sample Comments:

56 SWELLING	L	15.00	SqFt	Comments:
50 PATCHING	L	0.75	SqFt	Comments:
48 L & T CR	L	9.00	Ft	Comments:
52 RAVELING	L	625.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Sample Number: 131 Type: R Area: 3,750.00SqFt PCI = 72
Sample Comments:

52 RAVELING	L	1,250.00	SqFt	Comments:
56 SWELLING	L	8.00	SqFt	Comments:
48 L & T CR	M	13.00	Ft	Comments:
48 L & T CR	L	34.00	Ft	Comments:

Sample Number: 136 Type: R Area: 3,750.00SqFt PCI = 78
Sample Comments:

48 L & T CR	L	55.00	Ft	Comments:
50 PATCHING	L	85.50	SqFt	Comments:
52 RAVELING	L	550.00	SqFt	Comments:

Sample Number: 142 Type: R Area: 3,750.00SqFt PCI = 84
Sample Comments:

50 PATCHING	L	0.25	SqFt	Comments:
52 RAVELING	L	350.00	SqFt	Comments:
48 L & T CR	L	34.50	Ft	Comments:

Sample Number: 148 Type: R Area: 3,750.00SqFt PCI = 81
Sample Comments:

48 L & T CR	L	71.00	Ft	Comments:
52 RAVELING	L	550.00	SqFt	Comments:
50 PATCHING	L	0.25	SqFt	Comments:

Sample Number: 152 Type: R Area: 3,750.00SqFt PCI = 69
Sample Comments:

41 ALLIGATOR CR	L	22.00	SqFt	Comments:
48 L & T CR	L	142.00	Ft	Comments:
50 PATCHING	L	0.50	SqFt	Comments:
53 RUTTING	L	46.00	SqFt	Comments:
56 SWELLING	L	33.00	SqFt	Comments:

Sample Number: 153 Type: R Area: 3,750.00SqFt PCI = 78
Sample Comments:

56 SWELLING	L	22.00	SqFt	Comments:
48 L & T CR	L	153.00	Ft	Comments:
52 RAVELING	L	200.00	SqFt	Comments:
50 PATCHING	L	0.25	SqFt	Comments:

Sample Number: 158 Type: R Area: 3,750.00SqFt PCI = 55
Sample Comments:

41 ALLIGATOR CR	L	225.00	SqFt	Comments:
56 SWELLING	L	27.00	SqFt	Comments:
48 L & T CR	L	47.00	Ft	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: RW 13-31 Name: RUNWAY 13-31 Use: RUNWAY Area: 442,500.00SqFt

Section: 6110 of 3 From: - To: - Last Const.: 02/01/2011
Surface: AAC Family: FDOT-GA-RW-AAC Zone: Category: Rank: P
Area: 105,000.00SqFt Length: 1,400.00Ft Width: 75.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

NOTE: * Pre-Construction PCI *****
Last Insp. Date: 12/11/2006 Total Samples: 28 Surveyed: 5
Conditions: PCI : 79
Inspection Comments:

Sample Number: 163 Type: R Area: 3,750.00SqFt PCI = 81
Sample Comments:

48 L & T CR	L	43.00 Ft	Comments:
52 RAVELING	L	535.00 SqFt	Comments:
50 PATCHING	L	0.50 SqFt	Comments:

Sample Number: 167 Type: R Area: 3,750.00SqFt PCI = 77
Sample Comments:

50 PATCHING	L	53.00 SqFt	Comments:
52 RAVELING	L	1,530.00 SqFt	Comments:

Sample Number: 171 Type: R Area: 3,750.00SqFt PCI = 82
Sample Comments:

52 RAVELING	L	550.00 SqFt	Comments:
48 L & T CR	L	13.00 Ft	Comments:
50 PATCHING	L	0.25 SqFt	Comments:

Sample Number: 176 Type: R Area: 3,750.00SqFt PCI = 79
Sample Comments:

52 RAVELING	L	950.00 SqFt	Comments:
48 L & T CR	L	11.00 Ft	Comments:
50 PATCHING	L	0.25 SqFt	Comments:

Sample Number: 187 Type: R Area: 3,975.00SqFt PCI = 76
Sample Comments:

48 L & T CR	L	24.00 Ft	Comments:
50 PATCHING	L	0.25 SqFt	Comments:
52 RAVELING	L	1,496.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A Name: TAXIWAY ALPHA Use: TAXIWAY Area: 244,447.00SqFt

Section: 103 of 4 From: - To: - Last Const.: 01/01/1996
Surface: AAC Family: FDOT-GA-TW-AAC Zone: Category: Rank: P
Area: 75,820.00SqFt Length: 2,140.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 22 Surveyed: 5
Conditions: PCI : 74
Inspection Comments:

Sample Number: 103 Type: R Area: 3,500.00SqFt PCI = 77
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	120.00	Ft	Comments:
57 WEATHERING	M	110.00	SqFt	Comments:
57 WEATHERING	L	3,390.00	SqFt	Comments:
56 SWELLING	L	46.00	SqFt	Comments:

Sample Number: 108 Type: R Area: 3,500.00SqFt PCI = 87
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	81.00	Ft	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:

Sample Number: 112 Type: R Area: 3,500.00SqFt PCI = 79
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	117.00	Ft	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:
56 SWELLING	L	162.00	SqFt	Comments:

Sample Number: 117 Type: R Area: 3,500.00SqFt PCI = 82
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	194.00	Ft	Comments:
56 SWELLING	L	16.00	SqFt	Comments:

Sample Number: 121 Type: R Area: 3,270.00SqFt PCI = 44
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	109.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	305.00	Ft	Comments:
57 WEATHERING	L	3,270.00	SqFt	Comments:
56 SWELLING	L	1,500.00	SqFt	Comments:
56 SWELLING	L	1,760.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A Name: TAXIWAY ALPHA Use: TAXIWAY Area: 244,447.00SqFt

Section: 105 of 4 From: - To: - Last Const.: 01/01/1996
Surface: AAC Family: FDOT-GA-TW-AAC Zone: Category: Rank: P
Area: 36,379.00SqFt Length: 1,820.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 12 Surveyed: 2
Conditions: PCI : 87
Inspection Comments:

Sample Number: 108 Type: R Area: 3,500.00SqFt PCI = 85
Sample Comments:

57 WEATHERING	L	3,500.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	27.00	Ft	Comments:
56 SWELLING	L	81.00	SqFt	Comments:

Sample Number: 113 Type: R Area: 3,500.00SqFt PCI = 89
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	50.00	Ft	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A Name: TAXIWAY ALPHA Use: TAXIWAY Area: 244,447.00SqFt

Section: 120 of 4 From: - To: - Last Const.: 01/01/2011
Surface: AC Family: FDOT-GA-TW-AAC Zone: Category: Rank: P
Area: 26,638.00SqFt Length: 320.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 5 Surveyed: 1
Conditions: PCI : 100
Inspection Comments:

Sample Number: 119 Type: R Area: 3,500.00SqFt PCI = 100
Sample Comments:
<NO DISTRESSES>

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A Name: TAXIWAY ALPHA Use: TAXIWAY Area: 244,447.00SqFt

Section: 125 of 4 From: - To: - Last Const.: 01/01/1996
Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P
Area: 105,610.00SqFt Length: 3,000.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 30 Surveyed: 6
Conditions: PCI : 64
Inspection Comments:

Sample Number: 101 Type: R Area: 3,500.00SqFt PCI = 64
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	45.00 Ft	Comments:
52 RAVELING	L	200.00 SqFt	Comments:
57 WEATHERING	L	3,300.00 SqFt	Comments:
52 RAVELING	L	3,000.00 SqFt	Comments:

Sample Number: 110 Type: R Area: 3,500.00SqFt PCI = 69
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	5.00 Ft	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:
52 RAVELING	L	2,500.00 SqFt	Comments:

Sample Number: 115 Type: R Area: 3,500.00SqFt PCI = 72
Sample Comments:

52 RAVELING	L	2,500.00 SqFt	Comments:
57 WEATHERING	L	3,400.00 SqFt	Comments:

Sample Number: 120 Type: R Area: 3,500.00SqFt PCI = 42
Sample Comments:

52 RAVELING	M	3,000.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	6.00 Ft	Comments:
57 WEATHERING	L	494.00 SqFt	Comments:

Sample Number: 124 Type: R Area: 3,500.00SqFt PCI = 68
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	13.00 Ft	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:
52 RAVELING	L	2,500.00 SqFt	Comments:

Sample Number: 125 Type: R Area: 3,500.00SqFt PCI = 67
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	21.00 Ft	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:
52 RAVELING	L	2,700.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A1 Name: TAXIWAY ALPHA 1 Use: TAXIWAY Area: 28,522.99SqFt

Section: 104 of 1 From: - To: - Last Const.: 01/01/1996
Surface: AAC Family: FDOT-GA-TW-AAC Zone: Category: Rank: P
Area: 28,522.99SqFt Length: 600.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 8 Surveyed: 1
Conditions: PCI : 84
Inspection Comments:

Sample Number: 102 Type: R Area: 3,500.00SqFt PCI = 84
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	117.00 Ft	Comments:
57 WEATHERING	L	3,500.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A2 Name: TAXIWAY ALPHA 2 Use: TAXIWAY Area: 94,016.00SqFt

Section: 205 of 3 From: - To: - Last Const.: 01/01/1996
Surface: AAC Family: FDOT-GA-TW-AAC Zone: Category: Rank: T
Area: 8,075.00SqFt Length: 110.00Ft Width: 63.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 1 Surveyed: 1
Conditions: PCI : 81
Inspection Comments:

Sample Number: 100 Type: R Area: 8,075.00SqFt PCI = 81
Sample Comments:

52 RAVELING	M	26.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	37.00	Ft	Comments:
57 WEATHERING	L	2,800.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	15.00	Ft	Comments:
56 SWELLING	L	182.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A2 Name: TAXIWAY ALPHA 2 Use: TAXIWAY Area: 94,016.00SqFt

Section: 210 of 3 From: - To: - Last Const.: 01/01/1996
Surface: AAC Family: FDOT-GA-TW-AAC Zone: Category: Rank: P
Area: 35,380.00SqFt Length: 900.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 9 Surveyed: 2
Conditions: PCI : 61
Inspection Comments:

Sample Number: 102 Type: R Area: 3,800.00SqFt PCI = 69
Sample Comments:

57	WEATHERING	L	3,800.00 SqFt	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	L	8.00 Ft	Comments:
52	RAVELING	L	2,500.00 SqFt	Comments:

Sample Number: 109 Type: R Area: 4,290.00SqFt PCI = 53
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	88.00 Ft	Comments:
57	WEATHERING	L	3,500.00 SqFt	Comments:
52	RAVELING	L	3,500.00 SqFt	Comments:
52	RAVELING	M	790.00 SqFt	Comments:
48	LONGITUDINAL/TRANSVERSE CRACKING	M	52.00 Ft	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A2 Name: TAXIWAY ALPHA 2 Use: TAXIWAY Area: 94,016.00SqFt

Section: 215 of 3 From: - To: - Last Const.: 01/01/1984
Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P
Area: 50,561.00SqFt Length: 1,011.00Ft Width: 50.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 10 Surveyed: 2
Conditions: PCI : 42
Inspection Comments:

Sample Number: 112 Type: R Area: 5,000.00SqFt PCI = 30
Sample Comments:

50 PATCHING	L	352.00	SqFt	Comments:
52 RAVELING	M	4,648.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	122.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	128.00	Ft	Comments:

Sample Number: 115 Type: R Area: 5,000.00SqFt PCI = 54
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	324.00	Ft	Comments:
52 RAVELING	M	208.00	SqFt	Comments:
52 RAVELING	L	4,792.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	61.00	Ft	Comments:
57 WEATHERING	L	4,792.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW A3 Name: TAXIWAY A3 Use: TAXIWAY Area: 40,598.00SqFt

Section: 410 of 1 From: - To: - Last Const.: 01/01/1996
Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P
Area: 40,598.00SqFt Length: 840.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 11 Surveyed: 3
Conditions: PCI : 78
Inspection Comments:

Sample Number: 101 Type: R Area: 3,500.00SqFt PCI = 74
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	17.00 Ft	Comments:
52 RAVELING	L	1,080.00 SqFt	Comments:
57 WEATHERING	L	2,420.00 SqFt	Comments:

Sample Number: 105 Type: R Area: 3,500.00SqFt PCI = 94
Sample Comments:

57 WEATHERING	L	3,500.00 SqFt	Comments:

Sample Number: 108 Type: R Area: 4,560.00SqFt PCI = 69
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	195.00 Ft	Comments:
50 PATCHING	L	504.00 SqFt	Comments:
52 RAVELING	L	1,368.00 SqFt	Comments:
57 WEATHERING	L	2,688.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW E AP Name: TAXIWAY TO EAST APRON Use: TAXIWAY Area: 15,760.00SqFt

Section: 710 of 1 From: - To: - Last Const.: 12/25/1999
Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P
Area: 15,760.00SqFt Length: 480.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 5 Surveyed: 1
Conditions: PCI : 63
Inspection Comments:

Sample Number: 101 Type: R Area: 3,500.00SqFt PCI = 63
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	184.00 Ft	Comments:
52	RAVELING	L	3,500.00 SqFt	Comments:
45	DEPRESSION	L	36.00 SqFt	Comments:
45	DEPRESSION	L	150.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW HANG Name: TAXIWAY TO HANGAR Use: TAXIWAY Area: 36,645.00SqFt

Section: 405 of 2 From: - To: - Last Const.: 01/01/1984
Surface: AAC Family: FDOT-GA-TW-AAC Zone: Category: Rank: P
Area: 31,570.00SqFt Length: 655.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 7 Surveyed: 2
Conditions: PCI : 19
Inspection Comments:

Sample Number: 103 Type: R Area: 6,465.00SqFt PCI = 15
Sample Comments:

45 DEPRESSION	M	180.00 SqFt	Comments:
41 ALLIGATOR CRACKING	M	156.00 SqFt	Comments:
45 DEPRESSION	L	28.00 SqFt	Comments:
52 RAVELING	M	6,465.00 SqFt	Comments:
43 BLOCK CRACKING	L	3,309.00 SqFt	Comments:
43 BLOCK CRACKING	M	3,000.00 SqFt	Comments:

Sample Number: 104 Type: R Area: 5,045.00SqFt PCI = 23
Sample Comments:

50 PATCHING	H	40.00 SqFt	Comments:
43 BLOCK CRACKING	L	1,554.00 SqFt	Comments:
43 BLOCK CRACKING	M	1,155.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	93.00 Ft	Comments:
52 RAVELING	M	5,005.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW HANG Name: TAXIWAY TO HANGAR Use: TAXIWAY Area: 36,645.00SqFt

Section: 407 of 2 From: - To: - Last Const.: 01/01/1996
Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P
Area: 5,075.00SqFt Length: 100.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 1 Surveyed: 1
Conditions: PCI : 58
Inspection Comments:

Sample Number: 100 Type: R Area: 5,075.00SqFt PCI = 58
Sample Comments:

43 BLOCK CRACKING	L	1,872.00 SqFt	Comments:
52 RAVELING	M	1,872.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW S Name: TAXIWAY S Use: TAXIWAY Area: 45,015.00SqFt

Section: 605 of 1 From: - To: - Last Const.: 01/01/1996
Surface: AC Family: FDOT-GA-TW-AC Zone: Category: Rank: P
Area: 45,015.00SqFt Length: 1,241.00Ft Width: 35.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 13 Surveyed: 3
Conditions: PCI : 67
Inspection Comments:

Sample Number: 101 Type: R Area: 3,500.00SqFt PCI = 58
Sample Comments:

56 SWELLING	L	1,300.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	300.00	Ft	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:

Sample Number: 105 Type: R Area: 3,500.00SqFt PCI = 85
Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	108.00	Ft	Comments:
57 WEATHERING	L	3,500.00	SqFt	Comments:

Sample Number: 109 Type: R Area: 3,500.00SqFt PCI = 57
Sample Comments:

50 PATCHING	M	288.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	247.00	Ft	Comments:
52 RAVELING	L	3,212.00	SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW S AP Name: TAXIWAY CONNECT TO SOUTH Use: TAXIWAY Area: 8,350.00SqFt

Section: 505 of 1 From: - To: - Last Const.: 01/01/1984
Surface: AAC Family: FDOT-GA-TW-AAC Zone: Category: Rank: P
Area: 8,350.00SqFt Length: 150.00Ft Width: 50.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 2 Surveyed: 1
Conditions: PCI : 33
Inspection Comments:

Sample Number: 100 Type: R Area: 3,565.00SqFt PCI = 33
Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	165.00 Ft	Comments:
43	BLOCK CRACKING	L	666.00 SqFt	Comments:
43	BLOCK CRACKING	L	264.00 SqFt	Comments:
52	RAVELING	M	3,565.00 SqFt	Comments:

Re-inspection Report

FDOT
Report Generated Date: September 16, 2013

Network: 2IS Name: AIRGLADES AIRPORT

Branch: TW W AP Name: TAXIWAY CONNECT TO W APRO Use: TAXIWAY Area: 4,275.00SqFt

Section: 305 of 1 From: - To: - Last Const.: 01/01/1984
Surface: AAC Family: FDOT-GA-TW-AAC Zone: Category: Rank: P
Area: 4,275.00SqFt Length: 83.00Ft Width: 40.00Ft
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 06/17/2013 Total Samples: 1 Surveyed: 1
Conditions: PCI : 29
Inspection Comments:

Sample Number: 100 Type: R Area: 4,275.00SqFt PCI = 29
Sample Comments:

52 RAVELING	L	1,771.00 SqFt	Comments:
52 RAVELING	M	2,000.00 SqFt	Comments:
43 BLOCK CRACKING	L	1,518.00 SqFt	Comments:
50 PATCHING	M	504.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	M	27.00 Ft	Comments:
45 DEPRESSION	L	308.00 SqFt	Comments: