# FLORIDA DEPARTMENT OF TRANSPORTATION

AVIATION AND SPACEPORT OFFICE



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### **EXECUTIVE SUMMARY**

In 2012, the Florida Department of Transportation (FDOT) Central Aviation Office selected a team lead by Kimley-Horn and Associates, Inc. and including their subconsultants 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.

In October 2013, a PCI survey inspection was performed at Sebastian Municipal Airport. The results of the inspection indicate that, based on ASTM D 5340-11, the airport's airfield pavement facilities had an overall area-weighted average PCI of 81, representing a SATISFACTORY overall network condition. 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
E RUN-UP APRON	90	90	GOOD	60	65	
SW RUN-UP APRON	91	91	GOOD	60	65	
SOUTHEAST APRON	56	44 - 95	FAIR	60	65	Х
APRON TERMINAL	93	93 - 100	GOOD	60	65	
T-HANGAR APRON	90	90	GOOD	60	65	
WEST APRON	78	23 - 92	SATISFACTORY	60	65	Х
RUNWAY 10-28	90	89 - 95	GOOD	75	65	
RUNWAY 5-23	84	84	SATISFACTORY	75	65	
Taxiway Alpha	89	66 - 91	GOOD	65	65	
TAXIWAY BRAVO	90	90	GOOD	65	65	Χ
TAXIWAY CHARLIE	27	26 - 37	VERY POOR	65	65	
TAXIWAY CONNECTOR	84	84	SATISFACTORY	65	65	
TAXIWAY ECHO	100	100	GOOD	65	65	

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	87	GOOD
Taxiway	79	SATISFACTORY
Apron	74	SATISFACTORY

Based on the inspection performed at the airport for this SAPMP update; the current conditions were determined using the collected PCI distress data. PCI values were computed and used to identify pavement facilities that were below



the defined critical PCI as sections that would benefit from immediate major rehabilitation activity. These pavement sections that were determined to be below the critical PCI would most likely benefit from long-term major rehabilitative construction activity rather than localized, short-term maintenance and repairs.

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

- Southeast Apron Section 5605
  - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- West Apron Section 5115
  - Reconstruction attributed to distresses related to climate and age of pavement.
- Taxiway C Sections 306 and 305
  - Reconstruction attributed to distresses related to loading, climate, and age of pavement.

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

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

D 11D	Section	Major	PCI Before	Rehabilitation	PCI After	
Branch ID	ID	Rehabilitation Costs	M&R	Activity	M&R	
AP SE	5605	\$ 1,316,953.94	44	Mill and Overlay	100	
AP W	5115	\$ 478,500.11	23	Reconstruction	100	
TW C	306	\$ 168,765.04	37	Reconstruction	100	
TW C	305	\$ 767,910.18	26	Reconstruction	100	
Total =		\$2,732,129.27				

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.

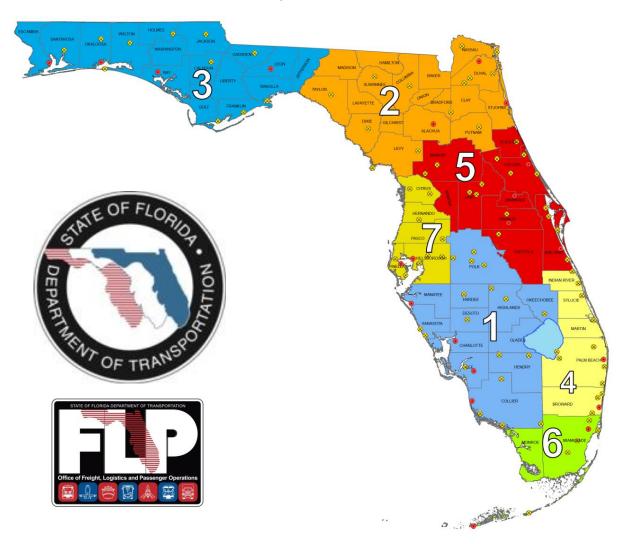
Table IV: 10-Year Preventative Maintenance and Major Rehabilitation

Year	Preventative		Preventative Major M&R		Total Year Cost	
2014	\$	68,031.38	\$	2,732,129.27	\$	2,800,160.65
2015	\$	135,285.69	\$	-	\$	135,285.69
2016	\$	198,797.44	\$	74,973.80	\$	273,771.23
2017	\$	272,334.77	\$	-	\$	272,334.77
2018	\$	335,222.79	\$	-	\$	335,222.79
2019	\$	394,902.01	\$	-	\$	394,902.01
2020	\$	443,939.85	\$	-	\$	443,939.85
2021	\$	490,683.51	\$	-	\$	490,683.51
2022	\$	535,495.77	\$	-	\$	535,495.77
2023	\$	575,976.18	\$	-	\$	575,976.18
Total		\$3,450,669.39		\$2,807,103.07	\$	6,257,772.45

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 (<a href="http://www.dot.state.fl.us/aviation/pavement.shtm">http://www.dot.state.fl.us/aviation/pavement.shtm</a>) 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 pavement preservation pavements, make 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.



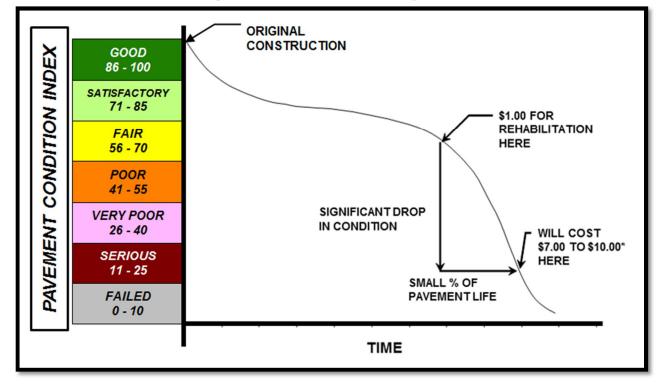


Figure 1-1: Pavement Life Cycle

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 indepth 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  $5,000 \pm 2,000$  square feet for flexible AC pavements and  $20 \pm 8$  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 Sai	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 Sai	mple Units to Inspect  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.

REPRESENTATIVE PAVEMENT SURFACE REPAIR PCI PCI **ACTIVITIES** ROUTINE MAINTENANCE Pavements with PCI indexes above 85, or 'Good' may require periodic 86 - 100 90 joint/crack sealing and local patching. PAVEMENT PRESERVATION Pavements with PCI conditions ranging from 'Satisfactory' to 'Good' 70 65 - 85 may require surface treatments (seal coat), thin overlays, and/or joint/crack sealing. MAJOR REHABILITATION Pavements that have deteriorated below a PCI 64, or within the range 40 40 - 64 of 'Poor' to 'Fair' conditions may require major rehabilitation such as pavement mill and overlay or PCC restoration activity. MAJOR REHABILITATION 15 may require major reconstruction.

Figure 1-2: Flexible Pavement, Asphalt Concrete

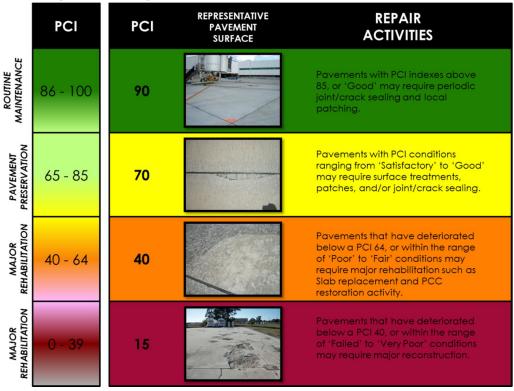


Figure 1-3: Rigid Pavement, Portland Cement Concrete

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.

# AIRFIELD PAVEMENT NETWORK DEFINITION AND PAVEMENT INVENTORY

Sebastian Municipal Airport (X26) consists of two runways. Runway 5-23 is 75-ft wide by 4,023-ft long. Runway 10-28 is 75-ft wide by 3,199-ft long. Runway 10-28 is served by parallel Taxiway B and multiple taxiway connectors. Taxiway A serves the western aprons and connects Runway 5-23 to Runway 10-28. Former Runway 13-31 and its parallel taxiway were abandoned. The airport has hangar facilities and aprons on the west side of the property. The airport administration building and newer hangars are located on the east side of the property, just south of Runway 28. The airport runways, taxiways and aprons are constructed of asphalt concrete pavement. This Airport is designated as a General Aviation airport and is located in District 4 of the Florida Department of Transportation.

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

Sebastian Municipal Airport was built out by the United States Navy in 1943 when it was known as Roseland Satellite Field or Outlying Field Roseland. It was built to support the naval training operations at Naval Air Station (NAS) Vero Beach and NAS Melbourne. It was inactivated as a naval facility after the war and transferred to the City of Sebastian in 1959.

#### 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 identified activities include maintenance and repair activity, 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	TAXIWAY E	NEW CONSTRUCTION

## 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 Sebastian Municipal Airport-(X26) for this SAPMP update.

Table 2-2: Pavement Inventory Summary

Airfield Pavement Network Definition								
Number of Branches	13							
Number of Sections		25						
Sample Units		60						
Airfield	Pavement l	Jse						
Use	Area (SF)	Relative Area (%)						
Runway	535,188	40%						
Taxiway	376,589	28%						
Apron	417,451	31%						
Total =	1,329,228	100%						
Airfield I	Pavement T	ype						
Туре	Area (SF)	Relative Area (%)						
Asphalt Concrete (AC)	972,697	72%						
Asphalt Overlay (AAC)	352,931	27%						
Portland Cement Concrete (PCC)	3,600	1%						
AC over PCC (APC)	0	0%						

27%. 1%\_ ■AAC - Asphalt Overlay on **Asphalt Concrete** Pavement ■ AC - Asphalt Concrete **Pavement** □PCC - Portland Cement 72%. Concrete

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 10-28	RW 10-28	6320	15,376	Р	AC	1/1/2004	1	4
RUNWAY 10-28	RW 10-28	6315	45,750	Р	AC	1/1/2004	2	12
RUNWAY 10-28	RW 10-28	6310	44,362	Р	AC	1/1/2004	2	12
RUNWAY 10-28	RW 10-28	6305	134,512	Р	AC	1/1/2004	7	36
RUNWAY 5-23	RW 5-23	6205	295,188	Р	AAC	1/1/2003	16	78
APRON TERMINAL	AP TERM	5710	3,600	Р	PCC	1/1/2008	1	1
APRON TERMINAL	AP TERM	5705	32,590	Р	AC	1/1/2005	1	6
SOUTHEAST APRON	AP SE	5615	10,290	Р	AC	1/1/2009	1	2
SOUTHEAST APRON	AP SE	5610	21,960	Р	AC	1/1/2005	1	5

Branch Name	Branch ID	Section ID	True Area (SF)	Section Rank	Surface Type	Last Const. Date	Total Samples Inspected	Total Samples
Southeast Apron	AP SE	5605	100,723	Р	AC	1/1/1943	3	20
E RUN UP APRON	AP RU E	5510	13,002	T	AC	1/1/2004	1	4
SW RUN UP APRON	AP RU SW	5405	19,866	T	AC	1/1/2005	1	4
T-HANGAR APRON AREA	AP T-HANG	5305	28,960	T	AC	1/1/2003	1	9
WEST APRON	AP W	5120	20,635	Р	AC	1/1/2004	1	4
WEST APRON	AP W	5115	31,900	Р	AC	1/1/1943	1	6
WEST APRON	AP W	5105	133,925	Р	AC	1/1/2005	3	24
TAXIWAY E	TW E	700	29,416	Р	AC	1/1/2011	1	8
TAXIWAY BRAVO	TW B	610	119,314	Р	AC	1/1/2004	4	32
TAXIWAY CONNECTOR	TW CONN	515	23,637	Р	AC	1/1/2004	2	5
Taxiway Alpha	TW A	425	7,067	Р	AC	1/1/2004	1	2
Taxiway Alpha	TW A	420	60,300	Р	AC	1/1/2004	2	15
Taxiway Alpha	TW A	415	16,667	Р	AC	1/1/2005	1	4
Taxiway Alpha	TW A	405	57,743	Р	AAC	1/1/2005	3	16
TAXIWAY CHARLIE	TW C	306	11,251	Р	AC	1/1/1943	1	2
TAXIWAY CHARLIE	TW C	305	51,194	Р	AC	1/1/1943	2	10

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

<sup>\*</sup> Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey.

### 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 Sebastian Municipal Airport, the overall weighted average PCI value is 81 representing a condition rating of SATISFACTORY.

The airport's airfield pavements exhibited distresses typically associated with climate, load, and age. The predominant AC and AAC pavement distresses observed include: weathering, raveling, block cracking, longitudinal/transverse cracking, and alligator cracking.

Runway 5-23 exhibited low severity longitudinal/transverse cracking; low severity weathering; low severity raveling; and low severity patching. The overall runway PCI is 84, with a condition rating of Satisfactory. Runway 10-28 exhibited low

severity weathering; low severity raveling; and low severity longitudinal/transverse cracking. The overall runway PCI is 90, with a condition rating of Good. The runway distresses are age and climate related.

Taxiway C and the northern areas of the West Apron exhibited low and medium severity weathering; low and severity raveling, low and medium severity block cracking, low severity alligator cracking; low, medium, and high severity patching; and low severity rutting. These pavements were by far the oldest on the airport and the distresses were indicative of their age.

The rest of the airport taxiways and aprons exhibited occasional low severity longitudinal/transverse cracking; low severity weathering; and low severity raveling. These pavements generally appear to be in Good condition.

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

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

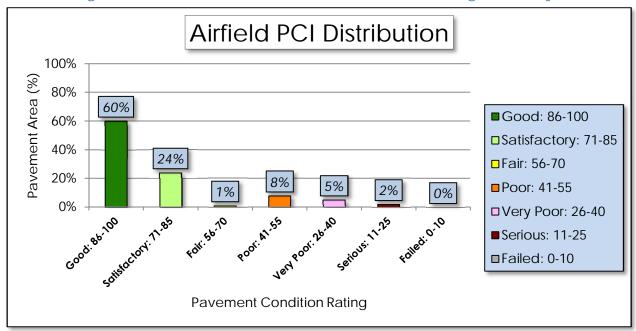


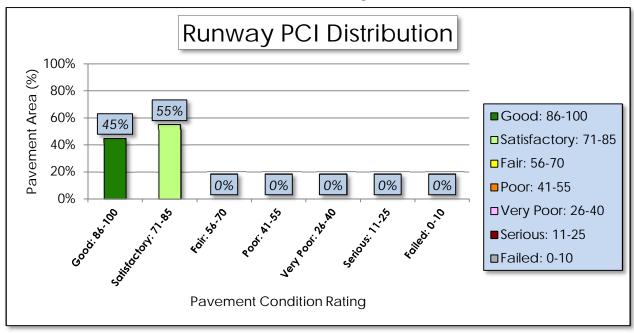
Table 3-3: Pavement Condition Index Rating Summary

The second secon						
Airfield Pavement Use						
Use	Average Area- Weighted PCI	Condition Rating				
Runway	87	GOOD				
Taxiway	79	SATISFACTORY				
Apron	74	SATISFACTORY				
Condition Area						
Condition Rating	Area (SF)	Relative Area (%)				
Good	808,268	60%				
Satisfactory	318,825	24%				
Fair	7,067	1%				
Poor	100,723	8%				
Very Poor	62,445	5%				
Serious	31,900	2%				
Failed	-	0%				

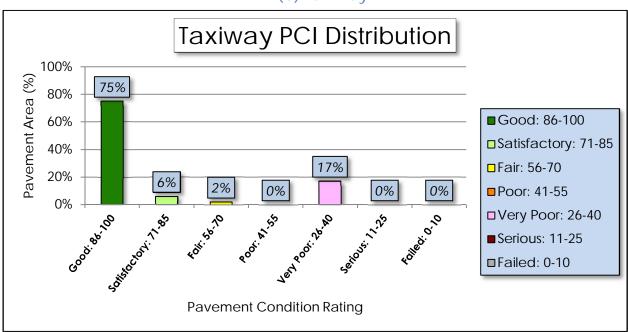
Approximately 84% of the airfield network is in Good and Satisfactory condition, while 15% of the network is in a Poor to Serious condition. Table 3-3 provides a breakdown of total area for each pavement by condition rating. Figures 3.2 a, b, c depict the condition rating of the airfield pavement by 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

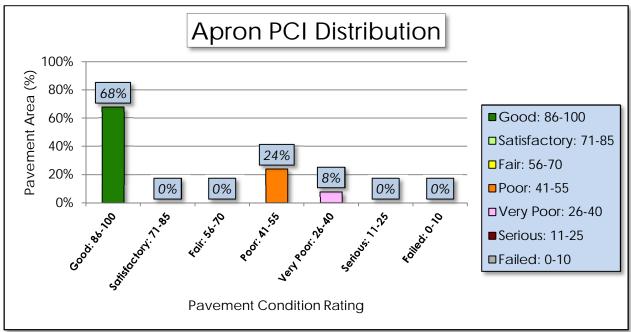


## (b) Taxiway





# (c) Apron



#### 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 Sebastian Municipal Airport based on pavement use. Each figure depicts the FDOT recommended Minimum Service Level PCI value for each pavement type.

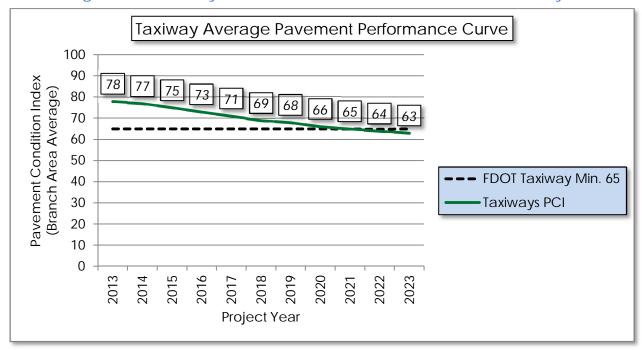


Project Year

Runway Average Pavement Performance Curve Pavement Condition Index 78 76 (Branch Area Average) 72 71 69 FDOT Runway Min. 75 Runways PCI 

Figure 4-1: Runway Pavement Performance Prediction Summary







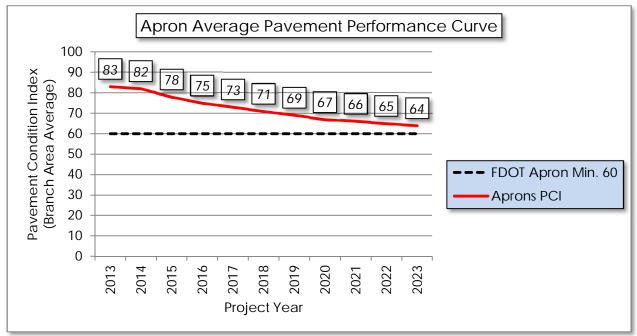


Figure 4-3: Apron Pavement Performance Prediction Summary

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
	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
Φ	47	Joint Reflection Cracking	M, H	Full Depth Pavement Patch	Square Feet
ncret C)	48	Longitudinal/Transverse Cracking	L, M, H	Crack Sealing	Linear Feet
Flexible Asphalt Concrete (AC, AAC, APC)	49	Oil Spillage	L, M	Seal Coat Treatment	Square Feet
Asph C, AA	49	Oil Spillage	Н	Full Depth Pavement Patch	Square Feet
exible (A(	50	Patch and Utility Patching	М	Crack Sealing	Linear Feet
<u> </u>	50	Patch and Utility Patching	Н	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	Н	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
	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	Н	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
Rigid Pavement (PCC)	67	Patching, Large	M, H	Slab Replacement / Full Depth Patch	Square Feet
igid P	68	Popouts	L	Crack Sealing - PCC	Linear Feet
α	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	Н	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	Н	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	<ul> <li>Crack Sealing (AC/PCC)</li> <li>Partial Depth Patching (AC)</li> <li>Full Depth Patching (AC/PCC)</li> <li>Surface Treatment (AC)</li> </ul>	75 - 90
Rehabilitation	<ul><li>Mill and Overlay (AC)</li><li>Concrete Pavement Restoration (PCC)</li></ul>	40 - 74
	Full Depth Pavement Reconstruction	0 - 39

The PCI standard scale ranges from a value of 0, typically representing a pavement in a failed condition, to a value of 100 which typically represents a pavement in new or good condition. Generally, airfield pavement sections with

a PCI of 75 or higher that are not exhibiting distresses due to aircraft loading will benefit from maintenance activities such as crack sealing, patching, and surface treatments. Pavement sections with PCI values within the range of 40 to 74 may require major rehabilitation, such as a mill and overlay. Lastly, pavement sections with a PCI value of 40 or less are recommended to undergo pavement reconstruction. Generally pavement reconstruction is the only practical means of restoration due to the substantial distresses observed in the pavement structure. Since PCI values are based solely on the visual determination of pavement distresses and deterioration, this method does not provide a direct measure of structural integrity.

#### 5.2 Unit Costs

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

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

## 5.3 Maintenance, Repair, and Major Rehabilitation

FDOT recognizes that although pavement mill and overlay is recommended for flexible asphalt concrete pavement within a PCI range from 40 to 74, it is conceivable that airports may not have adequate funding to perform this type of major rehabilitation. A comprehensive surface treatment; 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
alt Concrete C, APC)	Full Depth Pavement Patch	\$5.00	Square Feet
	Partial Depth Pavement Patch	\$3.00	Square Feet
	Seal Coat Treatment	\$0.55	Square Feet
Asph .C, AA	Crack Sealing		Linear Feet
Flexible Asphalt (AC, AAC, )	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
	Slab Replacement / Full Depth Patch	\$45.00	Square Feet
	Partial Patch - PCC	\$19.10	Square Feet
ment	Crack Sealing - PCC	\$4.25	Linear Feet
Rigid Pavement (PCC)	Joint Seal Repair (Local)	\$3.00	Linear Feet
Rigid	Slab Stabilization / Slab Jacking		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
	Mill and Overlay (AC)	40 74	\$8.00
Rehabilitation	<ul> <li>Concrete Pavement Restoration (PCC)</li> </ul>	40 - 74	\$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.

#### 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.

Year	Branch ID	Section ID	Major M&R Costs*	PCI Before M&R	M&R Activity	PCI After M&R
2014	AP SE	5605	\$ 1,316,953.94	44	Mill and Overlay	100
2014	AP W	5115	\$ 478,500.11	23	Reconstruction	100
2014	TW C	306	\$ 168,765.04	37	Reconstruction	100
2014	TW C	305	\$ 767,910.18	26	Reconstruction	100
2016	TW A	425	\$ 74,973.80	65	Mill and Overlay	100
		Total =	\$ 2,807,103.07			

Table 6-1: Summary of Major Rehabilitation

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 7 points less than a plan that provides timely repairs to the airfield pavements.

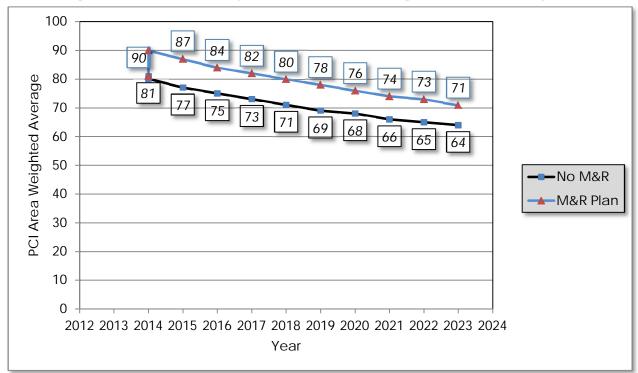


Figure 6-1: 10-Year Major Rehabilitation Budget Scenario Analysis

<sup>\*</sup> Costs are adjusted for inflation AT 3%

#### 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 7-1 provides a summary of the expected preventative and major rehabilitation for each program year.

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

Program Year	Pro	Preventative N		Major Rehabilitation		al Year Costs
2014	\$	68,031.38	\$	2,732,129.27	\$	2,800,160.65
2015	\$	135,285.69	\$	-	\$	135,285.69
2016	\$	198,797.44	\$	74,973.80	\$	273,771.23
2017	\$	272,334.77	\$	-	\$	272,334.77
2018	\$	335,222.79	\$	-	\$	335,222.79
2019	\$	394,902.01	\$	-	\$	394,902.01
2020	\$	443,939.85	\$	-	\$	443,939.85
2021	\$	490,683.51	\$	-	\$	490,683.51
2022	\$	535,495.77	\$	-	\$	535,495.77
2023	\$	575,976.18	\$	-	\$	575,976.18
				Total =	\$	6,257,772.45



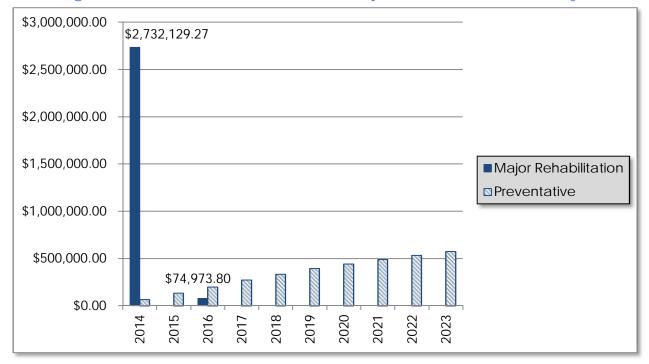


Figure 7-1: 10-Year Preventative and Major Rehabilitation Summary

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:

- Southeast Apron Section 5605
  - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- West Apron Section 5115
  - Reconstruction attributed to distresses related to climate and age of pavement.
- Taxiway C Sections 306 and 305
  - Reconstruction attributed to distresses related to loading, 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.

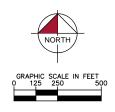
#### 9. RECOMMENDATIONS

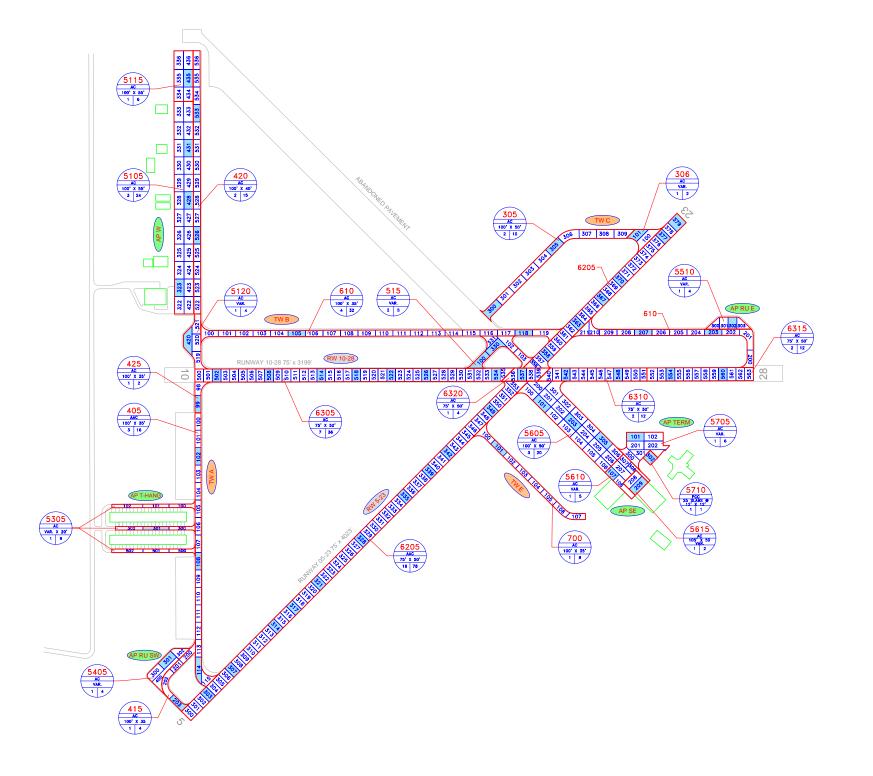
The following recommendations were made based on the 2013 condition survey inspection, condition analysis, and maintenance/rehabilitation analysis results:

- Southeast Apron Section 5605
  - Mill and Overlay attributed to distresses related to subgrade quality, climate, and age of pavement.
- West Apron Section 5115
  - Reconstruction attributed to distresses related to climate and age of pavement.
- Taxiway C Sections 306 and 305
  - Reconstruction attributed to distresses related to loading, climate, and age of pavement.
- Taxiway A Section 425
  - 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

TWA TYPICAL TAXIWAY BRANCH ID

APS TIPICAL APROIN BRAINCH ID

- NUMBER OF SAMPLE UNITS IN SECTION - NUMBER OF SAMPLE UNITS TO BE INSPECTED

INSPECTED SAMPLE UNITS. GPS COORDINATES ARE AT THE CENTROID OF THE SAMPLE UNIT.

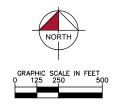
TOTAL SAMPLES INSPECTED = 60

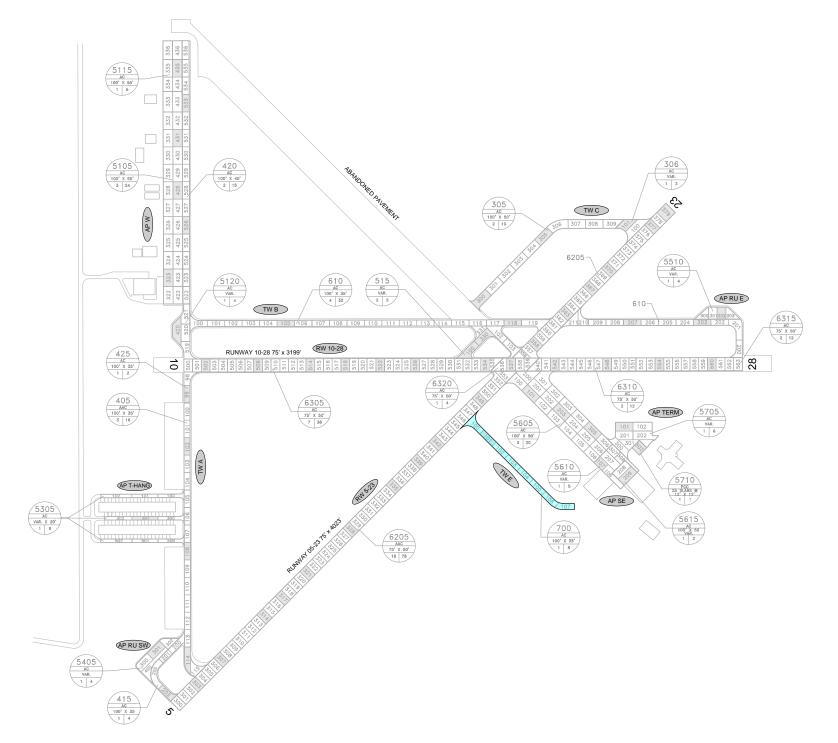
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.

IC \WFR_ANHION\142179022\CADD\PLANSHETTS\226 - SERASTAN HUNGPAL ARPORT\DONBITS\001-X26-OFFRITON.day PLOTED: December 4, 2013 - 4:28 PM, BY Barus, Art							
DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2013
NUMBER	DATE		REVISIONS				









#### 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	TAXIWAY E	NEW CONSTRUCTION

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

IC \WP9_Avietion\142175	C \WFB_ANGEN_\C2779022\\QUOO\FLANGERTS\QUO = SERATAM MENOPAL ARPORT\DOMBTS\QUO = XN=MANTEY.ANG											
DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2013					
NUMBER	DATE		REVISIONS									









Table A-1: Pavement Geometry Inventory

Y						J J	,				
Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	True Area (FT²)	Section Rank	Surface Type	Last Const. Date	Last Insp. Date	Total Samples
RUNWAY 10-28	RW 10-28	RUNWAY	6320	213	75	15,376	Р	AC	1/1/2004	10/7/2013	4
RUNWAY 10-28	RW 10-28	RUNWAY	6315	613	75	45,750	Р	AC	1/1/2004	10/7/2013	12
RUNWAY 10-28	RW 10-28	RUNWAY	6310	575	75	44,362	Р	AC	1/1/2004	10/7/2013	12
RUNWAY 10-28	RW 10-28	RUNWAY	6305	1,800	75	134,512	Р	AC	1/1/2004	10/7/2013	36
RUNWAY 5-23	RW 5-23	RUNWAY	6205	2,938	100	295,188	Р	AAC	1/1/2003	10/7/2013	78
APRON TERMINAL	AP TERM	APRON	5710	60	60	3,600	Р	PCC	1/1/2008	10/7/2013	1
APRON TERMINAL	AP TERM	APRON	5705	200	100	32,590	Р	AC	1/1/2005	10/7/2013	6
SOUTHEAST APRON	AP SE	APRON	5615	105	100	10,290	Р	AC	1/1/2009	10/7/2013	2
SOUTHEAST APRON	AP SE	APRON	5610	200	150	21,960	Р	AC	1/1/2005	10/7/2013	5
SOUTHEAST APRON	AP SE	APRON	5605	700	150	100,723	Р	AC	1/1/1943	10/7/2013	20
E RUN UP APRON	AP RU E	APRON	5510	200	50	13,002	Т	AC	1/1/2004	10/7/2013	4
SW RUN UP APRON	AP RU SW	APRON	5405	195	100	19,866	T	AC	1/1/2005	10/7/2013	4
T-HANGAR APRON AREA	AP T-HANG	APRON	5305	1,000	20	28,960	T	AC	1/1/2003	10/7/2013	9
WEST APRON	AP W	APRON	5120	400	50	20,635	Р	AC	1/1/2004	10/7/2013	4
WEST APRON	AP W	APRON	5115	290	50	31,900	Р	AC	1/1/1943	10/7/2013	6
WEST APRON	AP W	APRON	5105	1,200	100	133,925	Р	AC	1/1/2005	10/7/2013	24
TAXIWAY E	TW E	TAXIWAY	700	800	35	29,416	Р	AC	1/1/2011	10/7/2013	8
TAXIWAY BRAVO	TW B	TAXIWAY	610	4,770	25	119,314	Р	AC	1/1/2004	10/7/2013	32
TAXIWAY CONNECTOR	TW CONN	TAXIWAY	515	750	30	23,637	Р	AC	1/1/2004	10/7/2013	5
TAXIWAY ALPHA	TW A	TAXIWAY	425	180	35	7,067	Р	AC	1/1/2004	10/7/2013	2
TAXIWAY ALPHA	TW A	TAXIWAY	420	1,500	50	60,300	Р	AC	1/1/2004	10/7/2013	15
Taxiway alpha	TW A	TAXIWAY	415	410	40	16,667	Р	AC	1/1/2005	10/7/2013	4
Taxiway alpha	TW A	TAXIWAY	405	1,700	35	57,743	Р	AAC	1/1/2005	10/7/2013	16
TAXIWAY CHARLIE	TW C	TAXIWAY	306	120	75	11,251	Р	AC	1/1/1943	10/7/2013	2
TAXIWAY CHARLIE	TW C	TAXIWAY	305	1,020	50	51,194	Р	AC	1/1/1943	10/7/2013	10

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

\* Sections not surveyed due to reasons such as re-sectioning, no escort, not accessible at the time of survey.

01/01/2005

01/01/1943

CR-AC

**IMPORTED** 

Complete Reconstruction - AC

BUILT

## **Work History Report**

1 of 4

Pavement Database:FDOT Network: X26 Branch: AP RU E (E RUN UP APRON) Section: 5510 Surface: AC L.C.D.: 01/01/2004 Use: APRON 50.00 Ft Rank T Length: 200.00 Ft Width: True Area: 13,002.00 SqF Work Work Work Thickness Major Comments Cost Date Code Description ( in) M&R NC-AC 01/01/2004 New Construction - AC \$0 0.00 True 01/01/2001 INITIAL **Initial Construction** \$0 0.00 True Branch: AP RU SW Surface: AC Network: X26 (SW RUN UP APRON) Section: 5405 L.C.D.: 01/01/2005 Use: APRON Rank T Length: 195.00 Ft Width: 100.00 Ft True Area: 19,866.00 SqF Work Work Thickness Major Comments Cost Date Code Description ( in) M&R 01/01/2005 INITIAL Initial Construction 2.00 True 2" AC/4" Shell Rock Base/12" Stabilization Branch: AP SE Network: X26 (SOUTHEAST APRON) Section: 5605 Surface: AC L.C.D.: 01/01/1943 Use: APRON Rank P Length: 700.00 Ft Width: 150.00 Ft True Area:100,723.00 SqF Work Work Thickness Major Comments Cost Date Code Description ( in) M&R 01/01/1943 NU-IN New Construction - Initial \$0 0.00 True 1943 2" BIT 6-8" SHELL BASE Network: X26 Branch: AP SE Surface: AC (SOUTHEAST APRON) Section: 5610 **L.C.D.**: 01/01/2005 **Use**: APRON Rank P Length: 200.00 Ft Width: 150.00 Ft True Area: 21.960.00 SqF Work Work Major Work Thickness Comments Cost Date Code Description ( in) M&R 01/01/2005 NU-IN New Construction - Initial 0.00 True ESTIMATED CONSTRUCTION Branch: AP SE (SOUTHEAST APRON) Network: X26 Section: 5615 Surface: AC L.C.D.: 01/01/2009 Use: APRON Rank P Length: 105.00 Ft Width: 100.00 Ft True Area: 10,290.00 SqF Work Work Work Thickness Major Comments Cost Date Code Description ( in) M&R 01/01/2009 NU-IN New Construction - Initial 0.00 True ESTIMATED CONSTRUCTION Branch: AP TERM Network: X26 (APRON TERMINAL) Section: 5705 Surface: AC L.C.D.: 01/01/2005 Use: APRON Rank P Length: 200.00 Ft Width: 100.00 Ft True Area: 32.590.00 SqF Work Work Work Thickness Major Comments Cost Date Code Description (in) 01/01/2005 NU-IN New Construction - Initial \$0 0.00 True ESTIMATED CONSTRUCTION Branch: AP TERM Surface: PCC Network: X26 (APRON TERMINAL) Section: 5710 L.C.D.: 01/01/2008 Use: APRON True Area: 3,600.00 SqF Rank P Length: 60.00 Ft Width: 60.00 Ft Major Work Work Work Thickness Comments Cost Date Code Description ( in) M&R 01/01/2008 NU-IN New Construction - Initial ESTIMATED CONSTRUCTION True Surface: AC Network: X26 Branch: AP T-HANG (T-HANGAR APRON AREA) Section: 5305 L.C.D.: 01/01/2003 Use: APRON Rank T Length: 1,000.00 Ft Width: 20.00 Ft True Area: 28,960.00 SaF Work Work Work Thickness Major Comments Cost Date Code Description M&R ( in) 01/01/2003 INITIAL **Initial Construction** True 2"AC/4" Limerock/6" Stabilization Branch: AP W Section: 5105 Network: X26 (WEST APRON) Surface: AC **L.C.D.**: 01/01/2005 **Use**: APRON Rank P Length: 100.00 Ft True Area:133,925.00 SaF 1,200.00 Ft Width: Work Work Work Major Thickness Comments Cost Date Code Description M&R ( in)

\$0

2.00

2.00

True

True

2"AC/4" Shell Rock Base/4" Stabilization

1943 2" BIT 6-8" SHELL BASE

## **Work History Report**

Pavement Database:FDOT

Network: X26 Branch: AP W (WEST APRON)

Section: 5115

Surface: AC

2 of 4

L.C.D.: 01/01/1943 Use: APRON 50.00 Ft True Area: 31,900.00 SqF Rank P Length: 290.00 Ft Width: Work Work Work Thickness Major

Comments Cost Description Date Code ( in) M&R 01/01/1943 INITIAL Initial Construction \$0 0.00 True

Network: X26 Branch: AP W (WEST APRON) Surface: AC Section: 5120

L.C.D.: 01/01/2004 Use: APRON Rank P Length: 400.00 Ft Width: 50.00 Ft True Area: 20.635.00 SqF

Work Work Thickness Major Comments Cost Date Code Description M&R 01/01/2004 NC-AC New Construction - AC \$0 0.00 True 01/01/2000 INITIAL **Initial Construction** \$0 0.00 True

Branch: RW 10-28 (Runway 10-28) Network: X26 Section: 6305 Surface: AC L.C.D.: 01/01/2004 Use: RUNWAY Rank P Length: 1,800.00 Ft Width: 75.00 Ft True Area:134,512.00 SqF

Work Work Thickness Major Comments Cost M&R Date Code Description ( in) 01/01/2004 NC-AC New Construction - AC 0.00 True 01/01/2000 INITIAL **Initial Construction** \$0 0.00 True 2" AC/4" Shell Rock/12" Stab **IMPORTED BUILT** 1943 2" BIT 6-8" SHELL BASE 01/01/1943 2.00

Branch: RW 10-28 (Runway 10-28) Section: 6310 Surface: AC **L.C.D.:** 01/01/2004 **Use:** RUNWAY True Area: 44,362.00 SqF Rank P Length: 575.00 Ft Width: 75.00 Ft

Work Work Work Thickness Major Comments Cost Date Code Description M&R ( in) 01/01/2004 NC-AC New Construction - AC \$0 True 0.00 01/01/2000 INITIAL Initial Construction \$0 2" AC/4" Shell Rock/12" Stab 0.00 True **BUILT** 1943 2"' BIT 6-8" SHELL BASE 01/01/1943 **IMPORTED** 2.00 True

Network: X26 Branch: RW 10-28 (Runway 10-28) Section: 6315 Surface: AC L.C.D.: 01/01/2004 Use: RUNWAY Rank P Length: 613.00 Ft Width: 75.00 Ft True Area: 45,750.00 SqF

Work Work Thickness Major Comments Cost Description Date Code ( in) M&R NC-AC 01/01/2004 New Construction - AC \$0 2.00 True INITIAL 01/01/2000 **Initial Construction** \$0 0.00 True

(Runway 10-28) Surface: AC Network: X26 Branch: RW 10-28 Section: 6320

L.C.D.: 01/01/2004 Use: RUNWAY Rank P Length: 213.00 Ft Width: 75.00 Ft True Area: 15,376.00 SqF

Work Work Thickness Major Cost Comments Date Code Description ( in) M&R 01/01/2004 NC-AC New Construction - AC 0.00 True 01/01/1943 INITIAL **Initial Construction** \$0 1943 2" BIT 6-8" SHELL BASE 2.00 True

Branch: RW 5-23 (RUNWAY 5-23) Surface: AAC Network: X26 Section: 6205 L.C.D.: 01/01/2003 Use: RUNWAY True Area:295,188.00 SqF Rank P Length: 2,938.00 Ft Width: 100.00 Ft

Work Work Work Thickness Major Comments Cost Date Code Description M&R ( in) 01/01/2003 ML-OL Mill and Overlay 0.00 True 01/01/1943 **IMPORTED BUILT** 2.00 True 1943 2" BIT 6-8"' SHELL BASE

Network: X26 Branch: TW A (TAXIWAY ALPHA) Surface: AAC Section: 405 L.C.D.: 01/01/2005 Use: TAXIWAY Rank P Length: 1,700.00 Ft Width: 35.00 Ft True Area: 57,743.00 SqF

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
01/01/2005	OL-AS	Overlay - AC Structural	\$0	2.00	True	2" AC/4" Shell Rock Base/4" Stabilization
01/01/1943	IMPORTED	BUILT		2.00	True	1943 2" BIT 6-8" SHELL BASE

Date

01/01/2011

Code

NU-IN

Description

New Construction - Initial

## **Work History Report**

3 of 4 Pavement Database:FDOT Network: X26 Branch: TW A (TAXIWAY ALPHA) Section: 415 Surface: AC L.C.D.: 01/01/2005 Use: TAXIWAY 410.00 Ft 40.00 Ft Rank P Length: Width: True Area: 16,667.00 SqF Work Work Work Thickness Major Comments Cost Date Code Description ( in) M&R Initial Construction 01/01/2005 INITIAL \$0 0.00 True Network: X26 Branch: TW A (TAXIWAY ALPHA) Section: 420 Surface: AC L.C.D.: 01/01/2004 Use: TAXIWAY Rank P Length: 1,500.00 Ft Width: 50.00 Ft True Area: 60.300.00 SqF Work Work Work Thickness Major Comments Cost Date Code Description M&R 01/01/2004 NC-AC New Construction - AC \$0 0.00 True 01/01/2000 INITIAL **Initial Construction** \$0 0.00 True Branch: TW A Surface: AC Network: X26 (TAXIWAY ALPHA) Section: 425 L.C.D.: 01/01/2004 Use: TAXIWAY Rank P Length: 180.00 Ft Width: 35.00 Ft True Area: 7,067.00 SqF Work Work Thickness Major Comments Cost M&R Date Code Description ( in) 01/01/2004 HI-AG **New Construction** 0.00 True True 01/01/1943 INITIAL **Initial Construction** \$0 0.00 Network: X26 Branch: TW B (TAXIWAY BRAVO) Section: 610 Surface: AC L.C.D.: 01/01/2004 Use: TAXIWAY True Area:119,314.00 SqF Rank P Length: 4.770.00 Ft Width: 25.00 Ft Work Work Major Thickness Comments Cost Description Date Code ( in) M&R 01/01/2004 NC-AC New Construction - AC \$0 0.00 True 01/01/2000 INITIAL **Initial Construction** \$0 0.00 True 2" AC/4" Shell Rock/12" Stab Network: X26 Branch: TW C (TAXIWAY CHARLIE) Section: 305 Surface: AC L.C.D.: 01/01/1943 Use: TAXIWAY Rank P Length: 1.020.00 Ft Width: 50.00 Ft True Area: 51,194.00 SqF Work Work Work Thickness Major Comments Cost Description Date Code ( in) M&R 01/01/1943 IMPORTED **BUILT** 2.00 True 1943 2" BIT 6-8" SHELL BASE Network: X26 Surface: AC Branch: TW C (TAXIWAY CHARLIE) Section: 306 L.C.D.: 01/01/1943 Use: TAXIWAY Rank P Length: 120.00 Ft Width: 75.00 Ft True Area: 11,251.00 SqF Work Work Work Thickness Major Comments Cost Description Date Code M&R ( in) **IMPORTED BUILT** 01/01/1943 2.00 True 1943 2" BIT 6-8" SHELL BASE Network: X26 Branch: TW CONN (TAXIWAY CONNECTOR) Surface: AC Section: 515 L.C.D.: 01/01/2004 Use: TAXIWAY Rank P Length: 750.00 Ft Width: 30.00 Ft True Area: 23.637.00 SqF Work Work Work Thickness Major Comments Cost Description Date Code M&R ( in) 01/01/2004 NC-AC New Construction - AC \$0 0.00 True 01/01/2000 INITIAL **Initial Construction** \$0 0.00 True 01/01/2000 INITIAL **Initial Construction** \$0 0.00 True 2" AC/4" Shell Rock/12" Stab Branch: TW E (TAXIWAY E) Surface: AC Network: X26 Section: 700 L.C.D.: 01/01/2011 Use: TAXIWAY Rank P Length: 800.00 Ft Width: 35.00 Ft True Area: 29,416.00 SqF Work Work Thickness Work Major

Cost

\$0

( in)

0.00

M&R

True

Comments

ESTIMATED CONSTRUCTION

# **Work History Report**

4 of 4

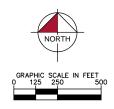
Pavement Database:FDOT

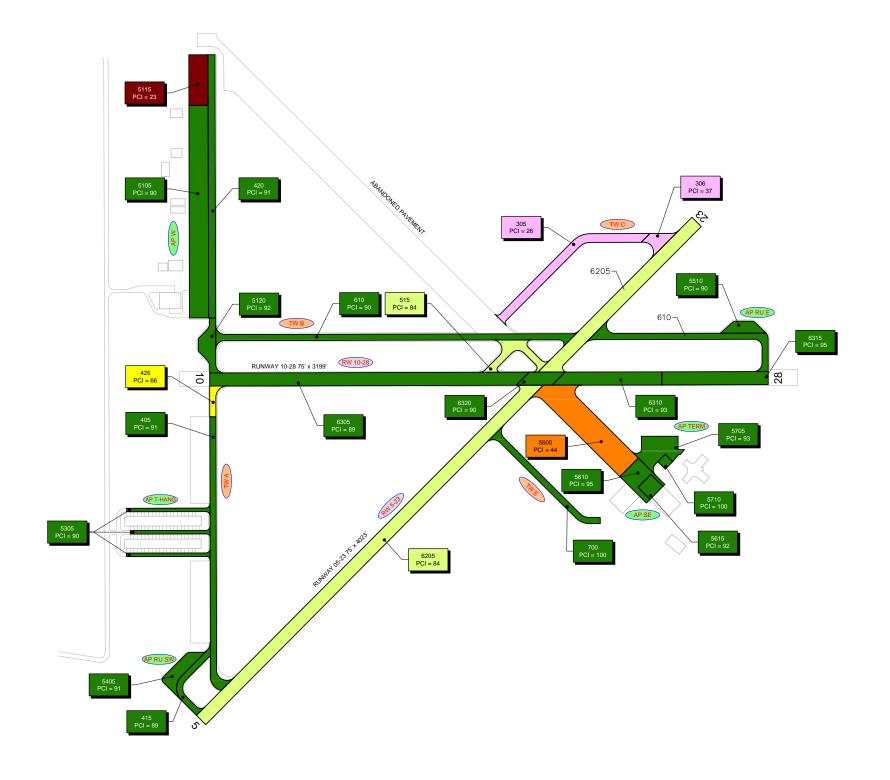
Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	7	728,175.00	2.00	.00
Complete Reconstruction - AC	1	133,925.00	2.00	
Initial Construction	15	604,985.00	.40	.83
Mill and Overlay	1	295,188.00	.00	
New Construction	1	7,067.00	.00	
New Construction - AC	9	476,888.00	.22	.67
New Construction - Initial	6	198,579.00	.00	.00
Overlay - AC Structural	1	57,743.00	2.00	

# APPENDIX B

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





#### LEGEND

RW 13-31 TYPICAL RUNWAY BRANCH ID



APS 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.

K: \WF9_Aviation\/42176	VPR_AMPION_VEXTYPE22/CACO/VPLAKSPETTS/356 - SERASTAN MINIOPIA, ASPORT_CHIEFTS/033-X26-CHICTOR.dog PLOTTED: December 4, 2013 - 4,28 PM, 871 Born, Art											
DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2013					
NUMBER	DATE		REVISIONS									









Table B-1: Pavement Condition Index Inventory

Branch Name	Branch ID	Branch Use	Section ID	True Area (FT²)	Section Rank	Surface Type	PCI	PCI Category	Total Samples Inspected	Total Samples
RUNWAY 10-28	RW 10-28	RUNWAY	6320	15,376	Р	AC	90	Good	1	4
RUNWAY 10-28	RW 10-28	RUNWAY	6315	45,750	Р	AC	95	Good	2	12
RUNWAY 10-28	RW 10-28	RUNWAY	6310	44,362	Р	AC	93	Good	2	12
RUNWAY 10-28	RW 10-28	RUNWAY	6305	134,512	Р	AC	89	Good	7	36
RUNWAY 5-23	RW 5-23	RUNWAY	6205	295,188	Р	AAC	84	Satisfactory	16	78
APRON TERMINAL	AP TERM	APRON	5710	3,600	Р	PCC	100	Good	1	1
APRON TERMINAL	AP TERM	APRON	5705	32,590	Р	AC	93	Good	1	6
SOUTHEAST APRON	AP SE	APRON	5615	10,290	Р	AC	92	Good	1	2
SOUTHEAST APRON	AP SE	APRON	5610	21,960	Р	AC	95	Good	1	5
SOUTHEAST APRON	AP SE	APRON	5605	100,723	Р	AC	44	Poor	3	20
E RUN UP APRON	AP RU E	APRON	5510	13,002	Т	AC	90	Good	1	4
SW RUN UP APRON	AP RU SW	APRON	5405	19,866	T	AC	91	Good	1	4
T-HANGAR APRON AREA	AP T-HANG	APRON	5305	28,960	T	AC	90	Good	1	9
WEST APRON	AP W	APRON	5120	20,635	Р	AC	92	Good	1	4
WEST APRON	AP W	APRON	5115	31,900	Р	AC	23	Serious	1	6
WEST APRON	AP W	APRON	5105	133,925	Р	AC	90	Good	3	24
TAXIWAY E	TW E	TAXIWAY	700	29,416	Р	AC	100	Good	1	8
TAXIWAY BRAVO	TW B	TAXIWAY	610	119,314	Р	AC	90	Good	4	32
TAXIWAY CONNECTOR	TW CONN	TAXIWAY	515	23,637	Р	AC	84	Satisfactory	2	5
Taxiway Alpha	TW A	TAXIWAY	425	7,067	Р	AC	66	Fair	1	2
Taxiway Alpha	TW A	TAXIWAY	420	60,300	Р	AC	91	Good	2	15
Taxiway Alpha	TW A	TAXIWAY	415	16,667	Р	AC	89	Good	1	4
Taxiway Alpha	TW A	TAXIWAY	405	57,743	Р	AAC	91	Good	3	16
TAXIWAY CHARLIE	TW C	TAXIWAY	306	11,251	Р	AC	37	Very Poor	1	2
TAXIWAY CHARLIE	TW C	TAXIWAY	305	51,194	Р	AC	26	Very Poor	2	10

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

<sup>\*</sup> 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

## **Branch Condition Report**

1 of 2

Pavement Database: FDOT NetworkID: X26

Sum Section Avg Section Number of PCI Weighted **True Area** Average **Branch ID** Use **Sections** Length Width Standard Average (SqFt) PCI PCI (Ft) (Ft) Deviation APRUE (ERUNUP APRON) 200.00 50.00 13,002.00 **APRON** 90.00 0.00 90.00 1 APRU SW (SW RUN UP APRON) 195.00 1 100.00 19,866.00 **APRON** 91.00 0.00 91.00 AP SE (SOUTHEAST APRON) 3 1,005.00 133.33 132,973.00 **APRON** 56.14 77.00 23.37 AP TERM (APRON TERMINAL) 2 260.00 APRON 80.00 36,190.00 96.50 3.50 93.70 AP T-HANG (T-HANGAR APRON 1 1,000.00 20.00 28,960.00 **APRON** 90.00 0.00 90.00 AREA) APW (WEST APRON) 3 1,890.00 186,460.00 **APRON** 66.67 68.33 32.07 78.76 RW 10-28 (Runway 10-28) 4 3,201.00 75.00 240,000.00 **RUNWAY** 91.75 90.95 2.38 RW 5-23 (RUNWAY 5-23) 1 2,938.00 100.00 295,188.00 **RUNWAY** 84.00 0.00 84.00 TW A (TAXIWAY ALPHA) 3,790.00 **TAXIWAY** 4 40.00 141,777.00 84.25 10.57 89.52 TW B (TAXIWAY BRAVO) 4,770.00 **TAXIWAY** 1 25.00 119,314.00 90.00 0.00 90.00 TW C (TAXIWAY CHARLIE) **TAXIWAY** 2 1,140.00 62.50 62,445.00 31.50 5.50 27.98 TW CONN (TAXIWAY 750.00 30.00 23,637.00 **TAXIWAY** 84.00 0.00 84.00 1 CONNECTOR) TW E (TAXIWAY E) 1 800.00 35.00 29,416.00 **TAXIWAY** 100.00 0.00 100.00

# **Branch Condition Report**

Pavement Database: FDOT

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	11	417,451.00	81.82	23.38	74.56
RUNWAY	5	535,188.00	90.20	3.76	87.12
TAXIWAY	9	376,589.00	74.89	24.87	79.94
All	25	1,329,228.00	81.00	22.28	81.14

2 of 2

## **Section Condition Report**

Pavement Database: FDOT Net

NetworkID: X26

Last Age Section ID Surface Hee Lanes Branch ID Last Rank True Area PCI Inspection Αt (SqFt) Date Inspection Date AP RU E (E RUN UP APRON) **APRON** Т 5510 01/01/2004 AC 13,002.00 10/07/2013 90.00 AP RU SW (SW RUN UP APRON) 5405 01/01/2005 AC **APRON** Т 19,866.00 10/07/2013 91.00 AP SE (SOUTHEAST APRON) 5605 01/01/1943 AC **APRON** Ρ 0 100.723.00 10/07/2013 70 44.00 AP SE (SOUTHEAST APRON) 01/01/2005 AC **APRON** Ρ 0 21,960.00 10/07/2013 95.00 5610 8 AP SE (SOUTHEAST APRON) APRON Р 5615 01/01/2009 AC 0 10.290.00 10/07/2013 4 92.00 AP TERM (APRON TERMINAL) Ρ 5705 01/01/2005 AC **APRON** 0 32,590.00 10/07/2013 8 93.00 AP TERM (APRON TERMINAL) 5710 01/01/2008 PCC **APRON** Ρ 3,600.00 10/07/2013 5 100.00 AP T-HANG (T-HANGAR APRON AREA) 5305 01/01/2003 AC **APRON** Т 0 28,960.00 10/07/2013 10 90.00 AP W (WEST APRON) 5105 01/01/2005 AC **APRON** Ρ O 133,925.00 10/07/2013 8 90.00 AP W (WEST APRON) Р 70 5115 01/01/1943 AC **APRON** n 31,900.00 10/07/2013 23.00 AP W (WEST APRON) Ρ **APRON** 5120 01/01/2004 AC 0 20,635.00 10/07/2013 9 92.00 RW 10-28 (Runway 10-28) 6305 01/01/2004 AC **RUNWAY** Ρ 134,512.00 10/07/2013 9 89.00 RW 10-28 (Runway 10-28) 6310 01/01/2004 AC **RUNWAY** Ρ 44,362.00 10/07/2013 93.00 RW 10-28 (Runway 10-28) **RUNWAY** Ρ 45,750.00 10/07/2013 6315 01/01/2004 AC 95.00 RW 10-28 (Runway 10-28) **RUNWAY** Ρ 90.00 6320 01/01/2004 AC 0 15,376.00 10/07/2013 9 RW 5-23 (RUNWAY 5-23) **RUNWAY** Р 6205 01/01/2003 AAC 0 295,188.00 10/07/2013 10 84.00 TW A (TAXIWAY ALPHA) 405 01/01/2005 AAC **TAXIWAY** Ρ 0 57,743.00 10/07/2013 8 91.00 TW A (TAXIWAY ALPHA) 415 01/01/2005 AC **TAXIWAY** Ρ 16,667.00 10/07/2013 8 89.00 TW A (TAXIWAY ALPHA) **TAXIWAY** Ρ 420 01/01/2004 AC 60,300.00 10/07/2013 91.00 TW A (TAXIWAY ALPHA) **TAXIWAY** Р 425 01/01/2004 AC 0 7.067.00 10/07/2013 9 66.00 TW B (TAXIWAY BRAVO) 610 01/01/2004 AC **TAXIWAY** Ρ 0 119,314.00 10/07/2013 9 90.00 TW C (TAXIWAY CHARLIE) AC **TAXIWAY** Р 51,194.00 10/07/2013 305 01/01/1943 0 70 26.00 TW C (TAXIWAY CHARLIE) 306 01/01/1943 AC **TAXIWAY** Ρ 0 11,251.00 10/07/2013 70 37.00 TW CONN (TAXIWAY CONNECTOR) 515 01/01/2004 AC **TAXIWAY** Ρ 23,637.00 10/07/2013 84.00 TW E (TAXIWAY E) 700 01/01/2011 **TAXIWAY** Р 0 29.416.00 10/07/2013 2 100.00

1 of 2

Date: 10 /17/2013

# **Section Condition Report**

2 of 2

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	2.00	29,416.00	1	100.00	0.00	100.00
03-05	4.50	13,890.00	2	96.00	5.66	94.07
06-10	8.78	1,090,854.00	18	89.06	6.46	88.64
over 40	70.00	195,068.00	4	32.50	9.75	35.44
All	17.96	1,329,228.00	25	81.00	22.74	81.14

# APPENDIX D

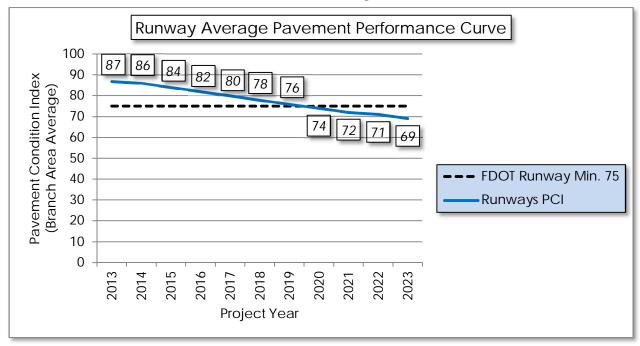
- PAVEMENT PERFORMANCE PREDICTION
- PAVEMENT PERFORMANCE BY PAVEMENT USE

Table D-1: Pavement Performance Prediction

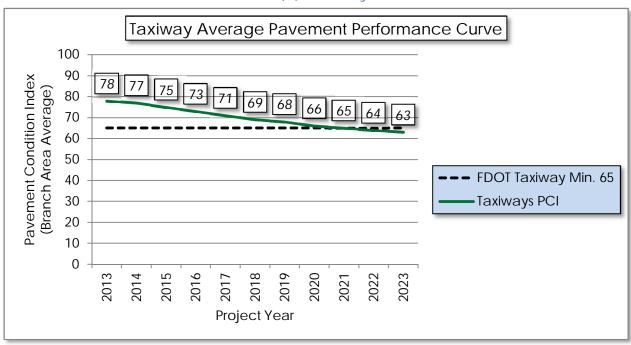
Branch	Section	Current			Paver	ment P	erform	nance	Mode	I - PCI		
ID	ID	PCI	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
RW 10-28	6320	90	90	88	86	84	82	80	78	77	75	74
RW 10-28	6315	95	94	92	90	88	86	85	83	81	79	77
RW 10-28	6310	93	93	90	88	87	85	83	81	79	78	76
RW 10-28	6305	89	89	87	85	83	81	79	78	76	74	73
RW 5-23	6205	84	83	81	78	76	73	71	69	68	66	65
AP TERM	5710	100	99	97	94	91	88	85	82	79	76	73
AP TERM	5705	93	92	87	84	81	78	76	74	72	71	70
AP SE	5615	92	91	87	83	80	77	75	73	72	71	69
AP SE	5610	95	94	89	85	82	79	76	74	73	71	70
AP SE	5605	44	44	43	43	42	42	41	41	40	40	40
AP RU E	5510	90	89	85	82	79	76	74	73	71	70	69
AP RU SW	5405	91	90	86	82	79	77	75	73	72	70	69
AP T-HANG	5305	90	89	85	82	79	76	74	73	71	70	69
AP W	5120	92	91	87	83	80	77	75	73	72	71	69
AP W	5115	23	23	23	23	23	23	23	22	22	22	22
AP W	5105	90	89	85	82	79	76	74	73	71	70	69
TW E	700	100	99	97	94	91	89	86	84	81	79	77
TW B	610	90	89	87	84	82	80	78	76	74	72	71
TW CONN	515	84	83	81	79	77	75	73	72	71	69	68
TW A	425	66	66	65	65	65	64	64	64	64	63	63
TW A	420	91	90	86	82	79	77	75	73	72	70	69
TW A	415	89	88	86	83	81	79	77	75	73	72	71
TW A	405	91	90	88	86	84	82	80	79	77	76	75
TW C	306	37	37	36	36	36	35	35	35	35	35	35
TW C	305	26	26	26	26	26	26	26	26	26	26	26

Figure D-1: Pavement Performance by Pavement Use

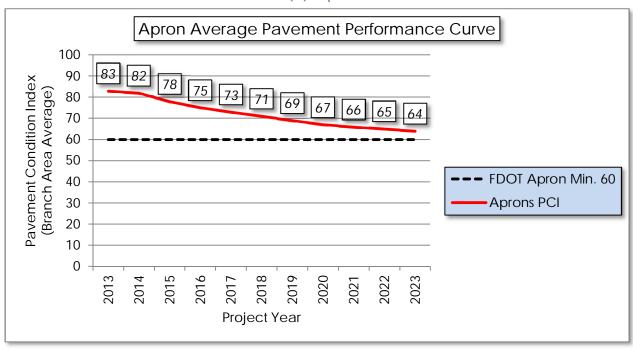
#### (a) Runway



#### (b) Taxiway



## (c) Apron



# 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
RUNWAY 10-28	RW 10-28	6320	L&TCR	L	Crack Sealing - AC	151.70	Ft	\$2.75	\$	417.20
RUNWAY 10-28	RW 10-28	6315	RAVELING	L	Surface Seal	12.20	SqFt	\$0.55	\$	6.71
RUNWAY 10-28	RW 10-28	6310	L&TCR	L	Crack Sealing - AC	29.60	Ft	\$2.75	\$	81.33
RUNWAY 10-28	RW 10-28	6310	RAVELING	L	Surface Seal	94.60	SqFt	\$0.55	\$	52.05
RUNWAY 10-28	RW 10-28	6305	L&TCR	L	Crack Sealing - AC	1,158.10	Ft	\$2.75	\$	3,184.73
RUNWAY 10-28	RW 10-28	6305	RAVELING	М	Surface Seal	5.10	SqFt	\$0.55	\$	2.82
RUNWAY 10-28	RW 10-28	6305	RAVELING	L	Surface Seal	328.00	SqFt	\$0.55	\$	180.38
RUNWAY 5-23	RW 5-23	6205	L&TCR	L	Crack Sealing - AC	5,299.80	Ft	\$2.75	\$	14,574.53
RUNWAY 5-23	RW 5-23	6205	RAVELING	L	Surface Seal	10,566.30	SqFt	\$0.55	\$	5,811.50
APRON TERMINAL	AP TERM	5705	OIL SPILLAGE	N	Surface Seal	41.40	SqFt	\$0.55	\$	22.74
SOUTHEAST APRON	AP SE	5615	DEPRESSION	L	Patching - AC Full Depth	108.40	SqFt	\$5.00	\$	541.85
SOUTHEAST APRON	AP SE	5605	BLOCK CR	L	Surface Seal	97,325.30	SqFt	\$0.55	\$	53,529.35
SOUTHEAST APRON	AP SE	5605	BLOCK CR	М	Patching - AC Full Depth	3,357.40	SqFt	\$5.00	\$	16,787.18
Southeast Apron	AP SE	5605	DEPRESSION	L	Patching - AC Full Depth	184.90	SqFt	\$5.00	\$	924.70

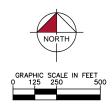
Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work C	ost
SOUTHEAST APRON	AP SE	5605	PATCHING	M	Crack Sealing - AC	21.30	Ft	\$2.75	\$ 58	3.54
SOUTHEAST APRON	AP SE	5605	RAVELING	Н	Patching - AC Partial Depth	429.80	SqFt	\$3.00	\$ 1,28	9.25
SOUTHEAST APRON	AP SE	5605	RAVELING	L	Surface Seal	91,859.40	SqFt	\$0.55	\$ 50,52	3.08
SOUTHEAST APRON	AP SE	5605	RAVELING	М	Surface Seal	8,393.60	SqFt	\$0.55	\$ 4,61	6.51
E RUN-UP APRON	AP RU E	5510	L&TCR	L	Crack Sealing - AC	75.40	Ft	\$2.75	\$ 20	7.28
SW RUN-UP APRON	AP RU SW	5405	L&TCR	L	Crack Sealing - AC	39.70	Ft	\$2.75	\$ 10	9.26
T-HANGAR APRON	AP T-HANG	5305	L&TCR	L	Crack Sealing - AC	154.50	Ft	\$2.75	\$ 42	4.75
WEST APRON	AP W	5120	RAVELING	L	Surface Seal	128.40	SqFt	\$0.55	\$ 70	).64
WEST APRON	AP W	5115	BLOCK CR	М	Patching - AC Full Depth	31,621.60	SqFt	\$5.00	\$ 158,10	8.14
WEST APRON	AP W	5115	RAVELING	М	Surface Seal	31,621.60	SqFt	\$0.55	\$ 17,39	2.02
WEST APRON	AP W	5105	DEPRESSION	L	Patching - AC Full Depth	160.50	SqFt	\$5.00	\$ 80	2.69
WEST APRON	AP W	5105	L&TCR	L	Crack Sealing - AC	1,306.80	Ft	\$2.75	\$ 3,59	3.65
TAXIWAY B	TW B	610	BLEEDING	N	Patching - AC Partial Depth	102.30	SqFt	\$3.00	\$ 30	6.81
TAXIWAY B	TW B	610	L&TCR	L	Crack Sealing - AC	298.30	Ft	\$2.75	\$ 82	0.28
TAXIWAY B	TW B	610	RAVELING	L	Surface Seal	161.90	SqFt	\$0.55	\$ 89	9.06

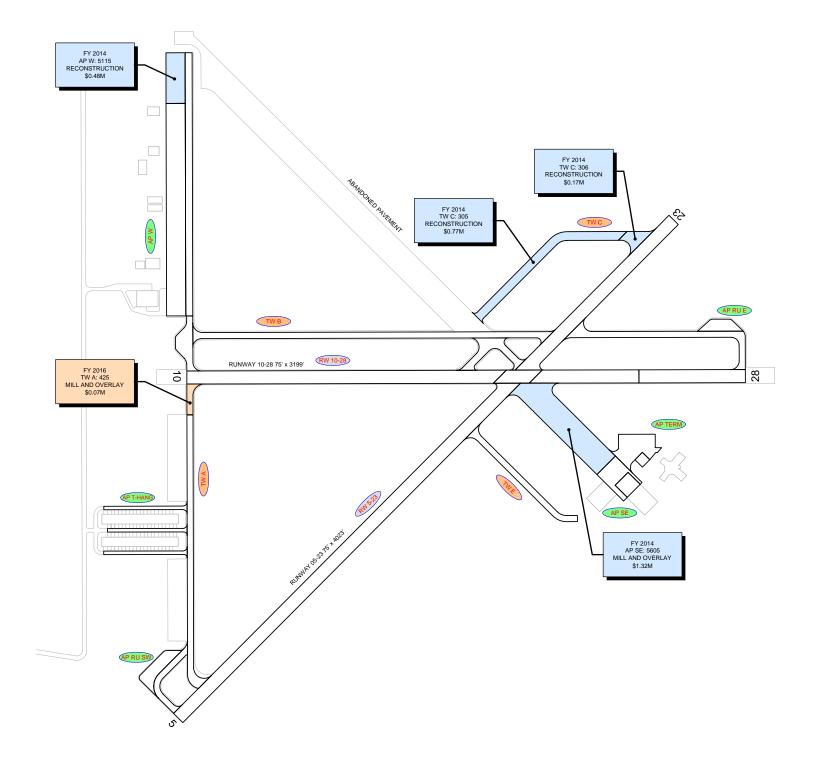
Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY CONNECTOR	TW CONN	515	DEPRESSION	L	Patching - AC Full Depth	299.70	SqFt	\$5.00	\$ 1,498.28
TAXIWAY CONNECTOR	TW CONN	515	L&TCR	L	Crack Sealing - AC	30.70	Ft	\$2.75	\$ 84.53
TAXIWAY CONNECTOR	TW CONN	515	RAVELING	L	Surface Seal	309.70	SqFt	\$0.55	\$ 170.36
TAXIWAY A	TW A	425	DEPRESSION	L	Patching - AC Full Depth	544.10	SqFt	\$5.00	\$ 2,720.48
TAXIWAY A	TW A	425	L&TCR	L	Crack Sealing - AC	278.60	Ft	\$2.75	\$ 766.26
TAXIWAY A	TW A	425	RAVELING	L	Surface Seal	40.40	SqFt	\$0.55	\$ 22.21
TAXIWAY A	TW A	420	L & T CR	L	Crack Sealing - AC	452.20	Ft	\$2.75	\$ 1,243.69
TAXIWAY A	TW A	415	L & T CR	L	Crack Sealing - AC	257.90	Ft	\$2.75	\$ 709.28
TAXIWAY A	TW A	405	L & T CR	L	Crack Sealing - AC	406.60	Ft	\$2.75	\$ 1,118.17
TAXIWAY C	TW C	306	BLOCK CR	M	Patching - AC Full Depth	11,251.00	SqFt	\$5.00	\$ 56,255.05
TAXIWAY C	TW C	306	RAVELING	L	Surface Seal	11,251.00	SqFt	\$0.55	\$ 6,188.10
TAXIWAY C	TW C	305	ALLIGATOR CR	L	Patching - AC Full Depth	2,079.40	SqFt	\$5.00	\$ 10,397.13
TAXIWAY C	TW C	305	BLOCK CR	M	Patching - AC Full Depth	49,198.10	SqFt	\$5.00	\$ 245,990.51
TAXIWAY C	TW C	305	PATCHING	Н	Patching - AC Full Depth	139.40	SqFt	\$5.00	\$ 696.93
TAXIWAY C	TW C	305	RAVELING	L	Surface Seal	51,098.00	SqFt	\$0.55	\$ 28,104.16

Branch Name	Branch ID	Section ID	Distress Description	Distress Severity	Work Description	Work Quantity	Work Unit	Unit Cost	Work Cost
TAXIWAY C	TW C	305	RUTTING	L	Patching - AC Full Depth	2,893.20	SqFt	\$5.00	\$ 14,465.80
								Total =	\$ 704,959.97

# APPENDIX F

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

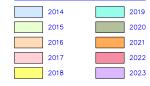




### **LEGEND**



#### PROGRAM YEAR



"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.

II: \WPB_Aviation\142175	KO22\CADD\PLANSHEETS\X	26 - SEBASTAN MUNICIPA	L APPORT\EXHBITS\004-	X24-REHAR-dwg	PLOTED: December 4, 20	13 - 4:29 PM, BY1 Barva,	M
DESIGNED:	KHA	DRAWN:	KHA	CHECKED:	KHA	DATE:	2013
NUMBER	DATE			REVI	SIONS		

	1
OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS	



AIRFIELD PAVEMENT 10-YEAR MAJOR REHABILITATION EXHIBIT
SEBASTIAN MUNICIPAL AIRPORT
INDIAN RIVER COUNTY, FLORIDA
FLORIDA DEPARTMENT OF TRANSPORTATION - AVIATION AND SPACEPORT OFFICE



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 SE	5605	\$ 1,316,953.94	44	Mill and Overlay	100
2014	AP W	5115	\$ 478,500.11	23	Reconstruction	100
2014	TW C	306	\$ 168,765.04	37	Reconstruction	100
2014	TW C	305	\$ 767,910.18	26	Reconstruction	100
2016	TW A	425	\$ 74,973.80	65	Mill and Overlay	100
		Total =	\$ 2,807,103.07			

<sup>\*</sup> Costs are adjusted for inflation AT 3%

# APPENDIX G

PHOTOGRAPHS



Runway 10-28, Section 6315, Sample Unit 554 – Low Severity (57) Weathering



Runway 10-28, Section 6305, Sample Unit 514 - Low Severity (57) Weathering



Runway 10-28, Section 6305, Sample Unit 502 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Runway 10-28, Section 6305, Sample Unit 534 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



Runway 10-28, Section 6305, Sample Unit 502 – Low Severity (52) Raveling, Low Severity (57) Weathering



Taxiway B, Section 610, Sample Unit 118 - Low Severity (52) Raveling, Low Severity (57) Weathering



Taxiway C, Section 305, Sample Unit 300 – Low Severity (41) Alligator Cracking, Low Severity (52) Raveling, Low Severity (53) Rutting, Low Severity (57) Weathering



Runway 5-23, Section 6205, Sample Unit 379 – Low Severity (50) Patching, Low Severity (52) Raveling, Low Severity (57) Weathering



Runway 5-23, Section 6205, Sample Unit 307 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Runway 5-23, Section 6205, Sample Unit 314 – Low Severity (52) Raveling, Low Severity (57) Weathering



Runway 5-23, Section 6205, Sample Unit 377 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



Apron SE, Section 5605, Sample Unit 101 - Low Severity (43) Block Cracking, Low, Medium, and High Severity (52) Raveling



Taxiway A, Section 425, Sample Unit 99 - Low Severity (45) Depression, Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Low Severity (57) Weathering



Taxiway A, Section 405, Sample Unit 108 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering



Apron W, Section 5115, Sample Unit 435 - Medium Severity (43) Block Cracking, Medium Severity (52) Raveling



Apron W, Section 5105, Sample Unit 431 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering

# APPENDIX H

DISTRESS DATA – RE-INSPECTION REPORT

**FDOT** 

Report Generated Date: October 17, 2013

Street Type:

Network: X26 Name: SEBASTIAN MUNICIPAL AIRPORT Branch: AP RU E Name: E RUN UP APRON Use: APRON Area: 13,002.00SqFt Section: 5510 From: To: Last Const.: 01/01/2004 of 1 Family: FDOT-SAPMP-GA-AP-AC Surface: Zone: Category: Rank: T ACArea: 13,002.00SqFt Length: 200.00Ft Width: 50.00Ft

Lanes: 0

Section Comments:

Shoulder:

Last Insp. Date: 10/07/2013 Total Samples: Surveyed: 1

Grade: 0.00

Conditions: PCI: 90 Inspection Comments:

PCI = 90Sample Number: Type: R Area: 3,450.00SqFt

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING  $_{\rm L}$ 20.00 Ft Comments:

57 WEATHERING L 3,450.00 SqFt Comments:

**FDOT** 

Report Generated Date: October 17, 2013

Network: X26 Name: SEBASTIAN MUNICIPAL AIRPORT Branch: AP RU SW Name: SW RUN UP APRON Use: APRON Area: 19,866.00SqFt Section: 5405 From: To: Last Const.: 01/01/2005 of 1 Family: FDOT-SAPMP-GA-AP-AC Surface: Zone: Category: Rank: T AC

100.00Ft

Area: 19,866.00SqFt Length: 195.00Ft Width:

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 10/07/2013 Total Samples: 4 Surveyed: 1

Conditions: PCI: 91 Inspection Comments:

Sample Number: 301 Type: R Area: 5,000.00SqFt PCI = 91

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 10.00 Ft Comments:

57 WEATHERING L 5,000.00 SqFt Comments:

#### FDOT

Network: X26	Name: SEBASTIAN MUI	NICIPAL AIRPORT				
Branch: AP SE	Name: SOUTHEAST API	RON	Use: APRO	ON Area:	132,973.00SqFt	
Section: 5605 o Surface: AC	f 3 From: - Family: FDOT-SAPMF	P-GA-AP-AC	То: -	Zone:	Last Const.: Category:	01/01/1943 Rank: P
Area: 100,723.00SqFt	Length: 700	0.00Ft W	/idth: 150.00Ft			
Shoulder: Street Type		Lanes: 0				
Section Comments:						
Last Insp. Date: 10/07/2013 Conditions: PCI: 44 Inspection Comments:	Total Samples: 20	Surveyed: 3				
Sample Number: 101 Sample Comments:	Type: R	Area:	5,000.00SqFt	PCI = 39		
52 RAVELING		Н	24.00 S	gFt Commen	ts:	
45 DEPRESSION		L	20.00 S	qFt Commen	ts:	
52 RAVELING		H	40.00 S	gFt Commen	ts:	
43 BLOCK CRACKING		L	5,000.00 S	gFt Commen	ts:	
52 RAVELING		M	1,250.00 S	gft Commen	ts:	
52 RAVELING		L	3,686.00 S	gFt Commen	ts:	
Sample Number: 203 Sample Comments:	Type: R	Area:	5,000.00SqFt	PCI = 54		
43 BLOCK CRACKING		L	5,000.00 S	gFt Commen	ts:	
52 RAVELING		L	5,000.00 S	gFt Commen	ts:	
57 WEATHERING		L	5,000.00 S	grt Commen	ts:	
Sample Number: 305 Sample Comments:	Type: R	Area:	5,000.00SqFt	PCI = 40		
50 PATCHING		M	6.00 S	gFt Commen	ts:	
43 BLOCK CRACKING		M	500.00 S		ts:	
43 BLOCK CRACKING		L	4,494.00 S	gFt Commen	ts:	
52 RAVELING		L	4,994.00 S	_	ts:	
57 WEATHERING		L	4,994.00 S	gFt Commen	ts:	

#### **FDOT**

Report Generated Date: October 17, 2013

Network:	X26	Name: SE	EBASTIAN	N MUNICIPAI	L AIRPOR	Γ				
Branch:	AP SE	Name: SO	OUTHEAS	T APRON			Use: APRON	Area:	132,973.00SqFt	
Section: Surface:	5610 AC	of 3 Family:	From:	- APMP-GA-AF	P-AC		То: -	Zone:	Last Const.: Category:	01/01/2005 Rank: P
Area: Shoulder:	21,960.00SqFt Street Ty	Leng /pe:	gth: Grade:	200.00Ft 0.00	Lanes:	Width:	150.00Ft			
Section Com	ments:									
-	Date: 10/07/20	13 Total Sam	ples: 5	Surv	veyed: 1					
Conditions: Inspection C										

Type: R Sample Number:

3,250.00SqFt

PCI = 95

Sample Comments: 1,625.00 SqFt 57 WEATHERING L Comments:

Area:

#### FDOT

57 WEATHERING

Report Generated Date: October 17, 2013

Network: X26	Name: SEBASTIAN MUNI	CIPAL AIRPORT				
Branch: AP SE	Name: SOUTHEAST APRO	ON	Use: APRON	Area:	132,973.00SqFt	
Section: 5615 Surface: AC	of 3 From: - Family: FDOT-SAPMP-0	GA-AP-AC	То: -	Zone:	Last Const.: Category:	01/01/2009 Rank: P
Area: 10,290.00SqFt Shoulder: Street	Length: 105.0 Type: Grade: 0.00	OFt Width	h: 100.00Ft			
Section Comments:  Last Insp. Date: 10/07/2	013 Total Samples: 2	Surveyed: 1				
Conditions: PCI: 92 Inspection Comments:						
Sample Number: 209 Sample Comments:	Type: R	Area: 5	5,250.00SqFt	PCI = 92		

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36.00 SqFt Comments: 1,313.00 SqFt Comments:

#### **FDOT**

Report Generated Date: October 17, 2013

Network:	X26	Name:	SEBASTIAN	MUNICIPA	L AIRPORT	Γ				
Branch:	AP TERM	Name:	APRON TER	RMINAL			Use: APRON	Area:	36,190.00SqFt	
Section:	5705	of 2	From:	-			То: -		Last Const.:	01/01/2005
Surface:	AC	Family	: FDOT-SA	APMP-GA-Al	P-AC			Zone:	Category:	Rank: P
Area:	32,590.00SqFt	Le	ngth:	200.00Ft		Width:	100.00Ft			
Shoulder:	Street Typ	e:	Grade:	0.00	Lanes:	0				

Last Insp. Date: 10/07/2013 Total Samples: 6 Surveyed: 1

Conditions: PCI: 93 Inspection Comments:

Sample Number: 101 Type: R Area: 5,000.00SqFt PCI = 93

Sample Comments:

49 OIL SPILLAGE N 3.00 SqFt Comments: 57 WEATHERING L 2,500.00 SqFt Comments:

FDOT

Report Generated Date: October 17, 2013

Network: X26 Name: SEBASTIAN MUNICIPAL AIRPORT Branch: AP TERM Name: APRON TERMINAL Use: APRON Area: 36,190.00SqFt Section: 5710 of 2 From: -То: -Last Const.: 01/01/2008 Family: FDOT-SAPMP-GA-AP-PCC Zone: Surface: PCC Category: Rank: P Area: 3,600.00SqFt Length: 60.00Ft Width: 60.00Ft Joint Length: Slabs: 40 Slab Width: 0.00Ft Slab Length: 0.00Ft 0.00Ft Shoulder: Street Type: Grade: 0.00 Lanes: 0 Section Comments: Last Insp. Date: 10/07/2013 Total Samples: Surveyed: 1 Conditions: PCI: 100 Inspection Comments:

Area:

25.00Slabs

PCI = 100

Sample Number: Sample Comments:

<NO DISTRESSES>

302

Type: R

**FDOT** 

Report Generated Date: October 17, 2013

Network: X26 Name: SEBASTIAN MUNICIPAL AIRPORT Branch: AP T-HANG Name: T-HANGAR APRON AREA Use: APRON Area: 28,960.00SqFt Section: 5305 From: To: Last Const.: 01/01/2003 of 1 Family: FDOT-SAPMP-GA-AP-AC Surface: Zone: Category: Rank: T ACArea: 28,960.00SqFt Length: 1,000.00Ft Width: 20.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 10/07/2013 Total Samples: 9 Surveyed: 1

Conditions: PCI: 90 Inspection Comments:

Sample Number: 301 Type: R Area: 3,000.00SqFt PCI = 90

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 16.00 Ft Comments: 57 WEATHERING L 3,000.00 SqFt Comments:

### FDOT

Network: X26 Name: SEBASTIAN MUNICIPA	L AIRPORT				
Branch: AP W Name: WEST APRON		Use: APRON	Area:	186,460.00SqFt	
Section: 5105 of 3 From: -		То: -	7	Last Const.:	01/01/2005
Surface: AC Family: FDOT-SAPMP-GA-Al		77.14	Zone:	Category:	Rank: P
Area: 133,925.00SqFt Length: 1,200.00Ft		Width: 100.00Ft			
Shoulder: Street Type: Grade: 0.00	Lanes:	)			
Section Comments:					
Inspection Comments:					
Inspection Comments:  Sample Number: 323 Type: R Sample Comments:	Area:	5,500.00SqFt	PCI = 93		
Sample Number: 323 Type: R Sample Comments:	Area:	•	PCI = 93 Comments	:	
		14.00 SqFt			
Sample Number: 323 Type: R Sample Comments: 45 DEPRESSION 57 WEATHERING  Sample Number: 428 Type: R	I	14.00 SqFt	Comments		
Sample Number: 323 Type: R Sample Comments: 45 DEPRESSION 57 WEATHERING	I	14.00 SqFt 5,500.00 SqFt 5,500.00SqFt	Comments Comments	:	
Sample Number: 323 Type: R Sample Comments: 45 DEPRESSION 57 WEATHERING  Sample Number: 428 Type: R Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING	I I Area:	14.00 SqFt 5,500.00 SqFt 5,500.00SqFt 36.00 Ft	Comments Comments PCI = 90	:	
Sample Number: 323 Type: R Sample Comments: 45 DEPRESSION 57 WEATHERING  Sample Number: 428 Type: R Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING 57 WEATHERING  Sample Number: 431 Type: R	I Area:	14.00 SqFt 5,500.00 SqFt 5,500.00SqFt 36.00 Ft	Comments Comments PCI = 90 Comments	:	
Sample Number: 323 Type: R Sample Comments: 45 DEPRESSION 57 WEATHERING  Sample Number: 428 Type: R Sample Comments: 48 LONGITUDINAL/TRANSVERSE CRACKING 57 WEATHERING	I Area: I	14.00 SqFt 5,500.00 SqFt  5,500.00SqFt  36.00 Ft 5,500.00SqFt  5,500.00SqFt	Comments Comments PCI = 90 Comments Comments	:	

#### **FDOT**

Sample Comments: 50 PATCHING

52 RAVELING

43 BLOCK CRACKING

Report Generated Date: October 17, 2013

Network:	X26	Name: SI	EBASTIAN N	IUNICIPAL	AIRPOR	Γ				
Branch:	AP W	Name: W	EST APRON				Use: APRON	Area:	186,460.00SqFt	
Section: Surface:	5115 AC	of 3 Family:	From: - FDOT-SAP	MP-GA-AP-	-AC		То: -	Zone:	Last Const.: Category:	01/01/1943 Rank: P
Area: Shoulder: Section Con	31,900.00SqFt Street T	Leng ype:		290.00Ft 0.00	Lanes:	Width:	50.00Ft			
•	Date: 10/07/20 s: PCI: 23 Comments:	013 Total Sam	nples: 6	Surv	eyed: 1					
Sample Nu	ımber: 435	Туре	: R		Area:	5,500.	00SqFt	PCI = 23		

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48.00 SqFt

5,452.00 SqFt

5,452.00 SqFt

Comments:

Comments:

Comments:

#### FDOT

52 RAVELING

52 RAVELING

52 RAVELING

57 WEATHERING

Report Generated Date: October 17, 2013

Network: X26	Name: SEBASTIAN MUNI	CIPAL AIRPORT				
Branch: AP W	Name: WEST APRON		Use: APRON	Area:	186,460.00SqFt	
Section: 5120	of 3 From:		То:		Last Const.:	01/01/2004
Surface: AC	Family: FDOT-SAPMP-C	A-AP-AC		Zone:	Category:	Rank: P
Area: 20,635.00SqFt	Length: 400.0	OFt Width:	50.00Ft			
Shoulder: Street	Гуре: Grade: 0.00	Lanes: 0				
Section Comments:  Last Insp. Date: 10/07/2  Conditions: PCI: 92  Inspection Comments:	013 Total Samples: 4	Surveyed: 1				
Sample Number: 420 Sample Comments:	Type: R	Area: 6,1	105.00SqFt	PCI = 92		

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24.00 SqFt

10.00 SqFt

6,105.00 SqFt

4.00 SqFt

Comments:

Comments:

Comments:

Comments:

#### FDOT

Report Generated Date: October 17, 2013					
Network: X26 Name: SEBASTIAN MUNICIPA	AL AIRPORT				
Branch: RW 10-28 Name: Runway 10-28		Use: RUNWAY	Area: 2	240,000.00SqFt	
Section: 6305 of 4 From: - Surface: AC Family: FDOT-SAPMP-GA-F	RW-AC	То: -	Zone:	Last Const.: Category:	01/01/2004 Rank: P
Area: 134,512.00SqFt Length: 1,800.00Ft		Vidth: 75.00Ft		2 3	
Shoulder: Street Type: Grade: 0.00	Lanes: 0				
Section Comments:					
Last Insp. Date: 10/07/2013 Total Samples: 36 Su	rveyed: 7				
Conditions: PCI: 89 Inspection Comments:					
Sample Number: 502 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 87		
48 LONGITUDINAL/TRANSVERSE CRACKING	L	14.00 Ft	Comments	:	
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments	:	
57 WEATHERING	L	·	Comments	:	
52 RAVELING	L	20.00 SqFt	Comments	:	
Sample Number: 508 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 93		
52 RAVELING	L	22.00 SqFt	Comments	:	
57 WEATHERING	L	1,875.00 SqFt	Comments	:	
Sample Number: 514 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 87		
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments	:	
57 WEATHERING	L	• -	Comments		
52 RAVELING	М	1.00 SqFt	Comments	:	
Sample Number: 518 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 91		
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments	:	
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments	:	
57 WEATHERING	L	1,875.00 SqFt	Comments	:	
Sample Number: 522 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 91		
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments	:	
57 WEATHERING	L	1,875.00 SqFt	Comments	:	
Sample Number: 526 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 91		
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments		
57 WEATHERING	L	1,875.00 SqFt	Comments	<b>:</b>	
Sample Number: 534 Type: R Sample Comments:	Area:	3,750.00SqFt	PCI = 86		
52 RAVELING	L	22.00 SqFt	Comments	:	
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments	:	
48 LONGITUDINAL/TRANSVERSE CRACKING	L		Comments		
57 WEATHERING	L	1,875.00 SqFt	Comments	:	

#### **FDOT**

Network: X26	Name: SEBASTIAN MUN	NICIPAL AIRPORT				
Branch: RW 10-28	Name: Runway 10-28		Use: RUNWAY	Area:	240,000.00SqFt	
Section: 6310	of 4 From: -		То: -	_	Last Const.:	01/01/2004
Surface: AC	Family: FDOT-SAPMP	-GA-RW-AC		Zone:	Category:	Rank: P
Area: 44,362.00SqFt	Length: 575	.00Ft Widt	h: 75.00Ft			
Shoulder: Street Ty	rpe: Grade: 0.00	Lanes: 0				
40/05/00	10 T . 10 . 1					
Last Insp. Date: 10/07/201 Conditions: PCI: 93 Inspection Comments:	13 Total Samples: 12	Surveyed: 2				
Conditions: PCI: 93 Inspection Comments:  Sample Number: 542	13 Total Samples: 12  Type: R		3,750.00SqFt	PCI = 94		
Conditions: PCI : 93 Inspection Comments:			3,750.00SqFt 16.00 SqFt	PCI = 94 Comments	g:	
Conditions: PCI : 93 Inspection Comments:  Sample Number: 542 Sample Comments:		Area:	•			
Conditions: PCI: 93 Inspection Comments:  Sample Number: 542 Sample Comments: 52 RAVELING 57 WEATHERING  Sample Number: 548		Area: 1 L L	16.00 SqFt	Comments		
Conditions: PCI: 93 Inspection Comments:  Sample Number: 542 Sample Comments: 52 RAVELING 57 WEATHERING  Sample Number: 548 Sample Comments:	Type: R	Area: 3 L L Area: 3	16.00 SqFt 1,875.00 SqFt	Comments	3:	

#### **FDOT**

57 WEATHERING

Report Generated Date: October 17, 2013

Network: x	T26	Name: SEBASTIA	N MUNICIPAL AIRPORT				
Branch: R	W 10-28	Name: Runway 10-	28	Use: RUNWAY	Area:	240,000.00SqFt	
Section: 6	315	of 4 From	-	То: -		Last Const.:	01/01/2004
Surface: A	ıC	Family: FDOT-S	APMP-GA-RW-AC		Zone:	Category:	Rank: P
Area: 45,	750.00SqFt	Length:	613.00Ft V	Vidth: 75.00Ft			
Shoulder:	Street T	ype: Grade:	0.00 Lanes: 0				
Conditions: Inspection Com							
Sample Numb		Type: R	Area:	3,750.00SqFt	PCI = 94		
57 WEATH			L	1,875.00 SqFt	Comments	:	
52 RAVEL	ING		L	2.00 SqFt	Comments	:	
	per: 560						

1,875.00 SqFt Comments:

#### **FDOT**

Report Generated Date: October 17, 2013

Network: X26 Name: SEBASTIAN MUNICIPAL AIRPORT Branch: RW 10-28 Name: Runway 10-28 Use: RUNWAY Area: 240,000.00SqFt Section: 6320 4 From: -То: -Last Const.: 01/01/2004 of Family: FDOT-SAPMP-GA-RW-AC Surface: Zone: Category: Rank: P ACArea: 15,376.00SqFt Length: 213.00Ft Width: 75.00Ft Shoulder: Grade: 0.00 Lanes: 0 Street Type:

Section Comments:

Last Insp. Date: 10/07/2013 Total Samples: 4 Surveyed: 1

Conditions: PCI: 90 Inspection Comments:

Sample Number: 537 Type: R Area: 3,750.00SqFt PCI = 90

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 37.00 Ft Comments:

57 WEATHERING L 1,875.00 SqFt Comments:

#### FDOT

Report Generated Date: October 17, 2013						
Network: X26 Name: SEBASTIAN MUNICIPA	AL AIRPOR	Т				
Branch: RW 5-23 Name: RUNWAY 5-23			Use: RUNWAY	Area:	295,188.00SqFt	
Section: 6205 of 1 From: - Surface: AAC Family: FDOT-SAPMP-GA-F	RW-AAC		То: -	Zone:	Last Const.: Category:	01/01/2003 Rank: P
Area: 295,188.00SqFt Length: 2,938.00Ft		W	idth: 100.00Ft			
Shoulder: Street Type: Grade: 0.00	Lanes:	0				
Section Comments:						
Last Insp. Date: 10/07/2013 Total Samples: 78 Su Conditions: PCI: 84 Inspection Comments:	rveyed: 1	16				
Sample Number: 303 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 79		
52 RAVELING		L	100.00 SqFt	Comments	:	
48 LONGITUDINAL/TRANSVERSE CRACKING		L	31.00 Ft	Comments	:	
48 LONGITUDINAL/TRANSVERSE CRACKING		L	100.00 Ft	Comments		
57 WEATHERING		L	3,750.00 SqFt	Comments	:	
Sample Number: 307 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 79		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	209.00 Ft	Comments	:	
57 WEATHERING		L	3,750.00 SqFt	Comments	:	
Sample Number: 314 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 82		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	94.00 Ft	Comments	:	
52 RAVELING		L	100.00 SqFt	Comments	:	
57 WEATHERING		L	3,750.00 SqFt	Comments	:	
Sample Number: 317 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 85		
52 RAVELING		L	12.00 SqFt	Comments	:	
48 LONGITUDINAL/TRANSVERSE CRACKING		L	91.00 Ft	Comments	:	
57 WEATHERING		L	3,750.00 SqFt	Comments	:	
Sample Number: 321 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 86		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	59.00 Ft	Comments	:	
52 RAVELING		L	30.00 SqFt	Comments	:	
57 WEATHERING		L	3,750.00 SqFt	Comments	:	
Sample Number: 328 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 85		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	61.00 Ft	Comments		
52 RAVELING		L	42.00 SqFt	Comments		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	13.00 Ft	Comments		
57 WEATHERING		L	3,750.00 SqFt	Comments	•	
Sample Number: 335 Type: R Sample Comments:	Area:		3,750.00SqFt	PCI = 88		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	65.00 Ft	Comments		
57 WEATHERING		L	3,750.00 SqFt	Comments	:	

### FDOT

Sample Number: 339 Type: R	Area:		3,750.00SqFt		PCI = 86
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING		L	66.00		Comments:
52 RAVELING		L	24.00	_	Comments:
57 WEATHERING		L	3,750.00	SqFt	Comments:
Sample Number: 342 Type: R Sample Comments:	Area:		3,750.00SqFt		PCI = 84
48 LONGITUDINAL/TRANSVERSE CRACKING		L	38.00	Ft	Comments:
52 RAVELING		L	96.00		Comments:
57 WEATHERING		L	3,750.00		Comments:
Sample Number: 349 Type: R	Area:		3,750.00SqFt		PCI = 88
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING		L	5.00	Ft	Comments:
57 WEATHERING		L	3,750.00	SqFt	Comments:
52 RAVELING		L	50.00	SqFt	Comments:
Sample Number: 358 Type: R Sample Comments:	Area:		3,755.00SqFt		PCI = 86
48 LONGITUDINAL/TRANSVERSE CRACKING		L	12.00	Ft	Comments:
52 RAVELING		L	100.00		Comments:
57 WEATHERING		L	3,755.00		Comments:
Sample Number: 363 Type: R Sample Comments:	Area:		3,750.00SqFt		PCI = 82
48 LONGITUDINAL/TRANSVERSE CRACKING		L	78.00	Ft	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING		L	39.00	Ft	Comments:
52 RAVELING		L	36.00	SqFt	Comments:
57 WEATHERING		L	3,750.00	SqFt	Comments:
Sample Number: 367 Type: R Sample Comments:	Area:		3,750.00SqFt		PCI = 86
48 LONGITUDINAL/TRANSVERSE CRACKING		L	17.00	Ft	Comments:
52 RAVELING		L	69.00		Comments:
57 WEATHERING		L	3,750.00	_	Comments:
Sample Number: 370 Type: R	Area:		3,750.00SqFt		PCI = 89
Sample Comments:	7 HCu.		3,730.00 <b>5q</b> 1 t		101-07
48 LONGITUDINAL/TRANSVERSE CRACKING		L	30.00		Comments:
57 WEATHERING		L	3,750.00	SqFt	Comments:
Sample Number: 377 Type: R Sample Comments:	Area:		3,750.00SqFt		PCI = 84
48 LONGITUDINAL/TRANSVERSE CRACKING		L	38.00	Ft	Comments:
52 RAVELING		L	150.00		Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING		L	14.00	-	Comments:
57 WEATHERING		L	3,750.00	SqFt	Comments:
Sample Number: 379 Type: R Sample Comments:	Area:		5,625.00SqFt		PCI = 72
48 LONGITUDINAL/TRANSVERSE CRACKING		L	31.00	Ft	Comments:
50 PATCHING		L	35.00	SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING		L	20.00	Ft	Comments:
52 RAVELING		L	1,406.00	SqFt	Comments:
57 WEATHERING		L	5,590.00	SqFt	Comments:

#### FDOT

Network: X26	Name: SEBASTIAN MUNICI	PAL AIRPORT				
Branch: TW A	Name: TAXIWAY ALPHA		Use: TAXIWAY	Area: 1	141,777.00SqFt	
Section: 405 Surface: AAC	of 4 From: - Family: FDOT-SAPMP-GA	-TW-AAC	То: -	Zone:	Last Const.: Category:	01/01/2005 Rank: P
Area: 57,743.00SqFt Shoulder: Street T	Length: 1,700.00F Type: Grade: 0.00	t Width Lanes: 0	: 35.00Ft			
Section Comments:						
Last Insp. Date: 10/07/20 Conditions: PCI: 91 Inspection Comments:  Sample Number: 102		urveyed: 3		DCI 04		
	Type: D					
*	Type: R	Area: 3,	3,500.00 SqFt	PCI = 94 Comments	:	
Sample Comments: 57 WEATHERING  Sample Number: 108	Type: R	L			:	
Sample Comments: 57 WEATHERING  Sample Number: 108 Sample Comments: 48 LONGITUDINAL/		L	3,500.00 SqFt	Comments	;	
Sample Comments: 57 WEATHERING  Sample Number: 108 Sample Comments:	Type: R	L Area: 3.	3,500.00 SqFt 500.00SqFt 42.00 Ft	Comments  PCI = 89  Comments	;	

FDOT

Report Generated Date: October 17, 2013

Network: X26 Name: SEBASTIAN MUNICIPAL AIRPORT Branch: TW A Name: TAXIWAY ALPHA Use: TAXIWAY Area: 141,777.00SqFt Section: 4 From: -То: -Last Const.: 01/01/2005 415 of Family: FDOT-SAPMP-GA-TW-AC Surface: Zone: Category: Rank: P ACArea: 16,667.00SqFt Length: 410.00Ft Width: 40.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 10/07/2013 Total Samples: 4 Surveyed: 1

Conditions: PCI: 89 Inspection Comments:

Sample Number: 203 Type: R Area: 3,748.00SqFt PCI = 89

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 58.00 Ft Comments: 57 WEATHERING L 3,748.00 SqFt Comments:

#### FDOT

Report Generated Date: October 17, 2013

Network: X26	Name: SEBASTIAN MUNICII	PAL AIRPORT				
Branch: TW A	Name: TAXIWAY ALPHA		Use: TAXIWAY	Area:	141,777.00SqFt	
Section: 420	of 4 From: -		То: -		Last Const.:	01/01/2004
Surface: AC	Family: FDOT-SAPMP-GA	-AP-AC		Zone:	Category:	Rank: P
Area: 60,300.00SqFt	Length: 1,500.00F	t Widt	h: 50.00Ft			
Shoulder: Street Ty	pe: Grade: 0.00	Lanes: 0				
Section Comments:  Last Insp. Date: 10/07/201 Conditions: PCI: 91	3 Total Samples: 15 S	durveyed: 2				
Last Insp. Date: 10/07/201	3 Total Samples: 15 S	Surveyed: 2				
Last Insp. Date: 10/07/201 Conditions: PCI: 91 Inspection Comments: Sample Number: 526	3 Total Samples: 15 S  Type: R	•	4,000.00SqFt	PCI = 89		
Last Insp. Date: 10/07/201 Conditions: PCI: 91 Inspection Comments: Sample Number: 526 Sample Comments:		•	4,000.00SqFt 60.00 Ft	PCI = 89 Comments	;:	
Last Insp. Date: 10/07/201 Conditions: PCI: 91 Inspection Comments: Sample Number: 526 Sample Comments: 48 LONGITUDINAL/7	Type: R	Area:				
Last Insp. Date: 10/07/201 Conditions: PCI: 91 Inspection Comments: Sample Number: 526 Sample Comments: 48 LONGITUDINAL/7	Type: R	Area: 4	60.00 Ft	Comments		

#### FDOT

Report Generated Date: October 17, 2013

Network:	X26	Name: SEBASTIA	AN MUNICIPA	L AIRPORT					
Branch:	TW A	Name: TAXIWAY	ALPHA			Use: TAXIWAY	Area:	141,777.00SqFt	
Section:	425	of 4 Fron	1: -			То: -		Last Const.:	01/01/2004
Surface:	AC	Family: FDOT-	SAPMP-GA-TV	W-AC			Zone:	Category:	Rank: P
Area:	7,067.00SqFt	Length:	180.00Ft	V	Vidth:	35.00Ft			
Shoulder:	Street T	ype: Grade	e: 0.00	Lanes: 0					

Last Insp. Date: 10/07/2013 Total Samples: 2 Surveyed: 1

Conditions: PCI: 66 Inspection Comments:

Sam	ple Number:	99	Type: R	Area:		3,500.00SqFt		PCI = 66
	ple Comments:							
45	DEPRESSI	ON			L	225.00	SqFt	Comments:
48	LONGITUD	INAL	TRANSVERSE CRACKING		L	38.00	Ft	Comments:
48	LONGITUD	INAL	TRANSVERSE CRACKING		L	100.00	Ft	Comments:
57	WEATHERI	NG			L	3,500.00	SqFt	Comments:
52	RAVELING				L	20.00	SqFt	Comments:

#### FDOT

Network: X26 Name: SEBASTIAN MUNICIPAL	I AIRD∩DT	Г				
Name. SEDASTIAN MUNICIPAL	LAINFUKI	ı				
Branch: TW B Name: TAXIWAY BRAVO			Use: TAXIWAY	Area:	119,314.00SqFt	
Section: 610 of 1 From:			То:		Last Const.:	01/01/2004
Surface: AC Family: FDOT-SAPMP-GA-TV	W-AC			Zone:	Category:	Rank: P
Area: 119,314.00SqFt Length: 4,770.00Ft		Wio	lth: 25.00Ft			
Shoulder: Street Type: Grade: 0.00	Lanes:	0				
Section Comments:						
Last Insp. Date: 10/07/2013 Total Samples: 32 Surv	veyed: 4					
Conditions: PCI: 90	rejea					
Inspection Comments:						
Sample Number: 105 Type: R	Area:		3,500.00SqFt	PCI = 90		
Sample Comments:		_	45.00 =:			
48 LONGITUDINAL/TRANSVERSE CRACKING		L	15.00 Ft	Comments		
57 WEATHERING		L	3,500.00 SqFt	Comments	•	
Sample Number: 118 Type: R	Area:		3,500.00SqFt	PCI = 89		
Sample Comments:			7.	,		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	9.00 Ft	Comments	:	
52 RAVELING		L	19.00 SqFt	Comments		
57 WEATHERING		L	3,500.00 SqFt	Comments	:	
Sample Number: 203 Type: R	Area:		3,500.00SqFt	PCI = 90		
Sample Comments:	111000		3,500,00041	101 )0		
48 LONGITUDINAL/TRANSVERSE CRACKING		L	11.00 Ft	Comments	:	
57 WEATHERING		L	3,500.00 SqFt	Comments	:	
Sample Number: 207 Type: R	Area:		3,500.00SqFt	PCI = 92		
Sample Number: 207 Type: R Sample Comments:	AICa.		3,500.00 <b>3</b> qrt	1 (1 – )2		
42 BLEEDING		N	12.00 SqFt	Comments	:	
57 WEATHERING		L	3,500.00 SqFt	Comments		
			. 1			

#### **FDOT**

Report Generated Date: October 17, 2013

Network: X26 Name: SEBASTIAN MUNICI	IPAL AIRPORT				
Branch: TW C Name: TAXIWAY CHARLIE	3	Use: TAXIWAY	Area:	62,445.00SqFt	
Section: 305 of 2 From: -		То: -	_	Last Const.:	01/01/1943
Surface: AC Family: FDOT-SAPMP-GA			Zone:	Category:	Rank: P
Area: 51,194.00SqFt Length: 1,020.00I	Ft W	idth: 50.00Ft			
Shoulder: Street Type: Grade: 0.00	Lanes: 0				
Section Comments:					
Last Insp. Date: 10/07/2013 Total Samples: 10	Surveyed: 2				
Conditions: PCI : 26					
Conditions: 1 C1. 20					
Inspection Comments:					
Inspection Comments:					
Inspection Comments:  Sample Number: 300 Type: R	Area:	5,670.00SqFt	PCI = 22		
	Area:	•	PCI = 22		
Sample Number: 300 Type: R	Area:	5,670.00SqFt 396.00 SqFt	PCI = 22 Comments	:	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge.		•			
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING	L	396.00 SqFt	Comments	:	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING 41 ALLIGATOR CRACKING	L L	396.00 SqFt 396.00 SqFt	Comments Comments	: :	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING 41 ALLIGATOR CRACKING 50 PATCHING	L L H	396.00 SqFt 396.00 SqFt 20.00 SqFt	Comments Comments	: : :	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING 41 ALLIGATOR CRACKING 50 PATCHING 43 BLOCK CRACKING	L L H M	396.00 SqFt 396.00 SqFt 20.00 SqFt 5,254.00 SqFt	Comments Comments Comments	: : :	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING 41 ALLIGATOR CRACKING 50 PATCHING 43 BLOCK CRACKING 52 RAVELING	L L H M L	396.00 SqFt 396.00 SqFt 20.00 SqFt 5,254.00 SqFt 5,650.00 SqFt	Comments Comments Comments Comments	: : :	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING 41 ALLIGATOR CRACKING 50 PATCHING 43 BLOCK CRACKING 52 RAVELING 57 WEATHERING	L L H M L	396.00 SqFt 396.00 SqFt 20.00 SqFt 5,254.00 SqFt 5,650.00 SqFt 5,650.00 SqFt	Comments Comments Comments Comments Comments Comments	: : :	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING 41 ALLIGATOR CRACKING 50 PATCHING 43 BLOCK CRACKING 52 RAVELING 57 WEATHERING Sample Number: 305 Type: R	L L H M L	396.00 SqFt 396.00 SqFt 20.00 SqFt 5,254.00 SqFt 5,650.00 SqFt 5,650.00 SqFt	Comments Comments Comments Comments Comments Comments	: : : :	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING 41 ALLIGATOR CRACKING 50 PATCHING 43 BLOCK CRACKING 52 RAVELING 57 WEATHERING  Sample Number: 305 Type: R Sample Comments:	L L H M L L	396.00 SqFt 396.00 SqFt 20.00 SqFt 5,254.00 SqFt 5,650.00 SqFt 5,650.00 SqFt	Comments Comments Comments Comments Comments Comments	: : : :	
Sample Number: 300 Type: R Sample Comments: Patch on edge. Hard to determine edge. 53 RUTTING 41 ALLIGATOR CRACKING 50 PATCHING 43 BLOCK CRACKING 52 RAVELING 57 WEATHERING  Sample Number: 305 Type: R Sample Comments: 53 RUTTING	L L H M L L Area:	396.00 SqFt 396.00 SqFt 20.00 SqFt 5,254.00 SqFt 5,650.00 SqFt 5,650.00 SqFt 5,000.00SqFt 207.00 SqFt	Comments Comments Comments Comments Comments PCI = 32 Comments	: : : :	

#### **FDOT**

Network: X26	Name: SEBASTIAN MUN	NICIPAL AIRPORT				
Branch: TW C	Name: TAXIWAY CHAR	LIE	Use: TAXIWAY	Area: 6	52,445.00SqFt	
Section: 306 Surface: AC	of 2 From: - Family: FDOT-SAPMP	-GA-TW-AC	То: -	Zone:	Last Const.: Category:	01/01/1943 Rank: P
Area: 11,251.00SqFt Shoulder: Street To	ě	.00Ft Width: Lanes: 0	75.00Ft			
Last Insp. Date: 10/07/20 Conditions: PCI: 37 Inspection Comments:	13 Total Samples: 2	Surveyed: 1				
Sample Number: 101	Type: R	Area: 4,3	39.00SqFt	PCI = 37		
Sample Comments: 43 BLOCK CRACKIN 52 RAVELING	G		4,339.00 SqFt 4,339.00 SqFt	Comments:		
57 WEATHERING			4,339.00 SqFt	Comments:		

#### **FDOT**

Network: X26 Name: SEBASTIAN MUNICIPA	AL AIRPORT				
Branch: TW CONN Name: TAXIWAY CONNECTO	PR	Use: TAXIWAY	Area:	23,637.00SqFt	
Section: 515 of 1 From:		То:		Last Const.:	01/01/2004
Surface: AC Family: FDOT-SAPMP-GA-T	W-AC		Zone:	Category:	Rank: P
Area: 23,637.00SqFt Length: 750.00Ft	Width	30.00Ft			
Shoulder: Street Type: Grade: 0.00	Lanes: 0				
Section Comments:					
Conditions: PCI: 84	rveyed: 2				
Conditions: PCI: 84 Inspection Comments:  Sample Number: 100 Type: R		254.00SqFt	PCI = 77		
Conditions: PCI : 84 Inspection Comments:  Sample Number: 100 Type: R Sample Comments:		254.00SqFt 99.00 SqFt	PCI = 77 Comments	:	
Conditions: PCI : 84 Inspection Comments:  Sample Number: 100 Type: R Sample Comments:	Area: 5,	•			
Conditions: PCI: 84 Inspection Comments:  Sample Number: 100 Type: R Sample Comments: 45 DEPRESSION 48 LONGITUDINAL/TRANSVERSE CRACKING	Area: 5,	99.00 SqFt	Comments	:	
Conditions: PCI: 84 Inspection Comments:  Sample Number: 100 Type: R Sample Comments: 45 DEPRESSION 48 LONGITUDINAL/TRANSVERSE CRACKING	Area: 5,	99.00 SqFt 13.00 Ft	Comments Comments	: :	
Conditions: PCI:84 Inspection Comments:  Sample Number: 100 Type: R Sample Comments:  45 DEPRESSION  48 LONGITUDINAL/TRANSVERSE CRACKING 52 RAVELING 57 WEATHERING	Area: 5,	99.00 SqFt 13.00 Ft 72.00 SqFt	Comments Comments Comments	: : :	
Conditions: PCI: 84 Inspection Comments:  Sample Number: 100 Type: R Sample Comments: 45 DEPRESSION 48 LONGITUDINAL/TRANSVERSE CRACKING 52 RAVELING 57 WEATHERING 52 RAVELING  Sample Number: 330 Type: R	Area: 5,, L L L L L	99.00 SqFt 13.00 Ft 72.00 SqFt 5,254.00 SqFt	Comments Comments Comments	: : :	
Conditions: PCI: 84 Inspection Comments:  Sample Number: 100 Type: R Sample Comments: 45 DEPRESSION 48 LONGITUDINAL/TRANSVERSE CRACKING 52 RAVELING 57 WEATHERING 52 RAVELING	Area: 5,, L L L L L	99.00 SqFt 13.00 Ft 72.00 SqFt 5,254.00 SqFt 15.00 SqFt	Comments Comments Comments Comments Comments	:	

#### **FDOT**

Sample Comments: <NO DISTRESSES>

Network:	X26	Name: SE	BASTIAN	MUNICIPAL	AIRPORT	Γ				
Branch:	TW E	Name: TA	AXIWAY E				Use: TAXIWAY	Area:	29,416.00SqFt	
Section:	700	of 1	From: -	-			То: -		Last Const.:	01/01/2011
Surface:	AC	Family:	FDOT-SA	PMP-GA-TW	-AC			Zone:	Category:	Rank: P
Area:	29,416.00SqFt	Leng	gth:	800.00Ft		Width:	35.00Ft			
Shoulder:	Street T	ype:	Grade:	0.00	Lanes:	0				
Section Con	nments:		ples: 8							