FLORIDA DEPARTMENT OF TRANSPORTATION AVIATION AND SPACEPORTS OFFICE

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Statewide Airfield Pavement Management Program

Airport Pavement Evaluation Report September 2017



Perry-Foley Airport (40J) General Aviation Airport District 2





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Florida Department of Transportation

Statewide Airfield Pavement Management Program

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS



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Executive Summary



Executive Summary

Program Background

Airport airfield pavement infrastructure facilities represent a large capital investment in the Florida Airport System. Timely and appropriate maintenance and strategic rehabilitation are essential as repair costs increase significantly in proportion to deterioration. Airport pavement distresses can also contribute to the development of loose debris and decreased ride quality, which can be a safety concern for aircraft operations.

In 2016, the Florida Department of Transportation (FDOT) Aviation and Spaceports Office (ASO) selected Kimley-Horn and Associates, Inc. with subconsultants Airfield Pavement Management Systems, LLC and AVCON, Inc. to provide professional services in support of FDOT in the continued efforts of performing a system update to the Statewide Airfield Pavement Management Program (SAPMP). This work is to be completed from fiscal year 2016 through fiscal year 2019. The SAPMP has 95 public use airport facilities throughout the seven FDOT Districts that participate in the system update. The results of this system update for this specific airport are presented in this report and can be utilized by FDOT and the Federal Aviation Administration (FAA) to identify, prioritize, and schedule pavement maintenance, repair, and major rehabilitation projects.

Pavement condition was assessed utilizing the pavement condition index (PCI) methodology as defined in the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)" using the documented procedures set forth by ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys."

Pavement deterioration, in accordance with the ASTM D5340-12, was characterized in terms of distinct distress types, severity level of distress, and quantity of distress. This information is utilized to calculate a PCI numeric that represents the overall condition of the pavement in a numeric index that ranges from 0 (a condition category of FAILED) to 100 (GOOD). The PCI methodology analyzes an overall measure of the pavement condition and provides an indication of the degree of maintenance, repair, or rehabilitation efforts that will be required to sustain functional pavement.

The tasks required for the system update at each participating airport consist of the following:

- Obtain recent and anticipated airfield pavement construction work data.
- Update airport airfield pavement system inventory records (construction history, identification, geometry, and facility classification).
- Perform PCI Survey Inspections at each participating airport.
- Update the FDOT SAPMP PAVER[™] database system.
- Update the FDOT SAPMP GIS Airfield Navigation GPS enabled Maps.
- Update airfield pavement performance models and pavement condition forecasting.
- Identification of planning-level maintenance, repair, and major rehabilitation to address pavement needs based on functional PCI analysis.
- Development of planning-level opinion of probable construction costs for pavement rehabilitation.

Summary of Results

Pavement Condition Index (Latest Inspection)

Table E-1 Pavement Condition Index Summary (Last Inspection) – Section Level

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
40J	RUNWAY 12-30	RUNWAY	6105	10,250	35	Very Poor
40J	RUNWAY 12-30	RUNWAY	6110	45,034	46	Poor
40J	RUNWAY 12-30	RUNWAY	6115	434,400	63	Fair
40J	RUNWAY 12-30	RUNWAY	6125	32,882	46	Poor
40J	RUNWAY 12-30	RUNWAY	6130	4,875	34	Very Poor
40J	RUNWAY 18-36	RUNWAY	6305	10,996	52	Poor
40J	RUNWAY 18-36	RUNWAY	6310	35,176	54	Poor
40J	RUNWAY 18-36	RUNWAY	6315	438,000	89	Good
40J	RUNWAY 18-36	RUNWAY	6325	21,407	54	Poor
40J	TAXIWAY A & B	TAXIWAY	105	131,781	58	Fair
40J	TAXIWAY A & B	TAXIWAY	110	111,959	59	Fair
40J	TAXIWAY C	TAXIWAY	205	152,818	56	Fair
40J	TAXIWAY C	TAXIWAY	210	57,791	59	Fair
40J	TAXIWAY C	TAXIWAY	215	5,000	22	Serious
40J	T-HANGAR TAXILANE	TAXILANE	4110	30,807	90	Good
40J	APRON	APRON	4105	339,332	38	Very Poor

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Forecasted Pavement Condition Index 2018-2027

 Table E-2 Pavement Condition Index Forecast 2018-2027

Network ID	Branch ID	Section ID	Last PCI	Forecasted PCI									
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
40J	AP	4105	38	37	37	36	36	35	34	34	33	32	31
40J	RW 12-30	6105	35	34	33	32	31	30	30	29	28	27	26
40J	RW 12-30	6110	46	45	44	43	42	41	41	40	39	38	37
40J	RW 12-30	6115	63	62	61	61	60	60	60	60	60	60	60
40J	RW 12-30	6125	46	45	44	43	42	41	41	40	39	38	37
40J	RW 12-30	6130	34	33	32	31	30	29	29	28	27	26	25
40J	RW 18-36	6305	52	51	50	49	48	47	47	46	45	44	43
40J	RW 18-36	6310	54	53	52	51	50	49	49	48	47	46	45
40J	RW 18-36	6315	89	87	85	84	82	81	79	77	76	74	72
40J	RW 18-36	6325	54	53	52	51	50	49	49	48	47	46	45
40J	T-HANGAR	4110	90	87	85	82	80	78	76	74	73	71	70
40J	TW A & B	105	58	56	54	53	51	49	48	47	46	45	44
40J	TW A & B	110	59	57	55	54	52	50	49	47	46	45	44
40J	TW C	205	56	54	52	51	49	48	46	45	45	44	44
40J	TW C	210	59	57	56	55	54	52	51	49	47	46	44
40J	TW C	215	22	19	16	13	10	8	5	2	0	0	0

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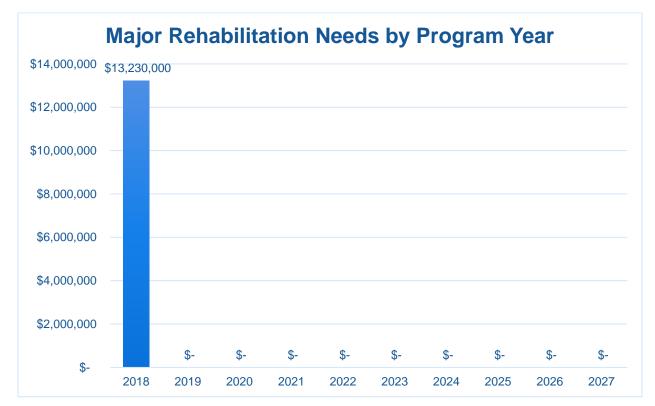
Major Rehabilitation Planning 2018-2027

Table E-3 Major Rehabilitation Planning 2018-2027

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	40J	AP	4105	PCC	339,332	37	PCC Reconstruction	\$ 5,091,000.00
2018	40J	RW 12-30	6105	PCC	10,250	34	PCC Reconstruction	\$ 154,000.00
2018	40J	RW 12-30	6110	PCC	45,034	45	PCC Restoration	\$ 558,000.00
2018	40J	RW 12-30	6115	AAC	434,400	62	AC Restoration	\$ 3,041,000.00
2018	40J	RW 12-30	6125	PCC	32,882	45	PCC Restoration	\$ 407,000.00
2018	40J	RW 12-30	6130	PCC	4,875	33	PCC Reconstruction	\$ 74,000.00
2018	40J	RW 18-36	6305	PCC	10,996	51	PCC Restoration	\$ 110,000.00
2018	40J	RW 18-36	6310	PCC	35,176	53	PCC Restoration	\$ 352,000.00
2018	40J	RW 18-36	6325	PCC	21,407	53	PCC Restoration	\$ 215,000.00
2018	40J	TW A & B	105	AAC	131,781	56	AC Restoration	\$ 923,000.00
2018	40J	TW A & B	110	AAC	111,959	57	AC Restoration	\$ 784,000.00
2018	40J	TW C	205	AAC	152,818	54	AC Restoration	\$ 1,070,000.00
2018	40J	TW C	210	AC	57,791	57	AC Restoration	\$ 405,000.00
2018	40J	TW C	215	AC	5,000	19	AC Reconstruction	\$ 46,000.00

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







Summary of Perry-Foley Airport

Perry - Foley Airport was inspected in February 2017 – the overall weighted PCI value was 62, a condition rating of Fair. The results of the maintenance, repair, and major rehabilitation analysis identified \$1,418,690 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$13,230,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$13,230,000 for pavements below critical condition.

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



Chapter 1

Chapter 1 – Introduction

1.1 Background

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

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

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

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

1.2 Statewide Airfield Pavement Management Program (SAPMP) Update 2016-2017

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



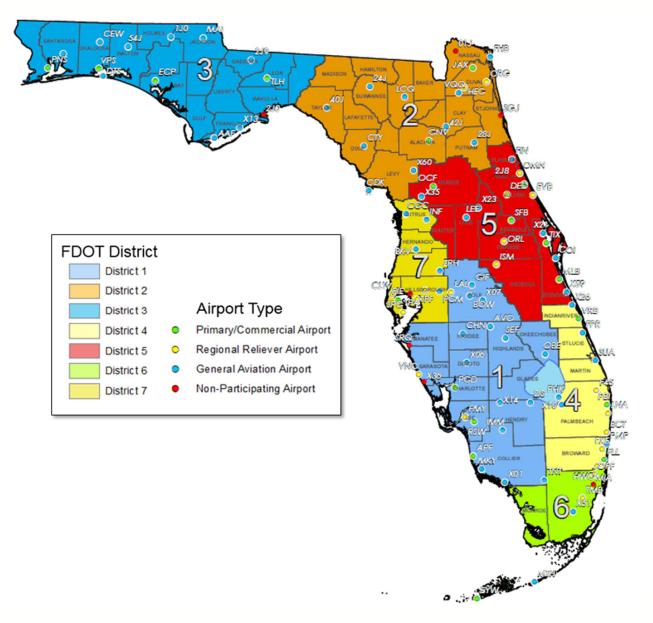


Figure 1.2 Florida Aviation System (Facilities with Pavement) and FDOT Districts

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

1.3 Organization

1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager

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

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

1.3.2 Participating Florida Public-Use and Publicly Owned Airports

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

1.3.3 Florida Department of Transportation District Offices

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

1.3.4 Consultant

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

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

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

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

1.4 Purpose of Airport Pavement Evaluation Report

The individual airport airfield pavement evaluation report discusses the work performed, a summary of findings, condition analysis results, and recommendations for maintenance, repair, and major rehabilitation (M&R) planning associated with the SAPMP system update. It also briefly describes the procedures used to ensure that the appropriate engineering and scientific standards of care, quality, budget, schedules, and safety requirements were implemented during the performance of this work.

The purpose of this Airfield Pavement Evaluation Report is to achieve the following:

- Describe the goals, procedures, and purpose of the SAPMP
- Provide a brief technical explanation of the pavement management methodology, standard practices, and objectives
- Analyze pavement distresses data for the determination of pavement conditions and for identification of airfield pavement maintenance, repair, and major rehabilitation needs based on functional PCI trends

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

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

1.5 History of the Program

In 1992, the FDOT implemented the SAPMP to understand the pavement conditions at public airports in the FAS, systematically update pavement infrastructure information, and assist airport operators with recommendations of pavement maintenance, repair, and major rehabilitation needs. The 1992 SAPMP implementation provided the FDOT and the participating airports valuable information for establishing and performing timely and appropriate pavement rehabilitation.

During the 1992-1993 implementation and again during the 1998-1999 updates; the SAPMP performed the development with proprietary software for pavement management system analysis. This development allowed for the creation of pavement management database file system populated with airport attributes and condition data. The pavement management database was used to establish maintenance, repair, and rehabilitation policies; consider planning-level unit costs; and develop recommendations for performing pavement maintenance. This system, known as AIRPAV, was initially developed during the 1992-1993 SAPMP implementation for the analysis of distress data. The AIRPAV system was used again in the 1998-1999 SAPMP update.

In 2004, the SAPMP system update included the review of the AIRPAV software compared to other industry available non-proprietary software packages. As a result of this review, MicroPAVER[™] (currently known as PAVER[™]) was selected for implementation of the system update. MicroPAVER[™] was developed by the U.S. Army Corps of Engineers Construction Engineering Research Laboratory for pavement management. Data from the 1998-1999 FDOT SAPMP update, which was built upon the initial 1992-1993 implementation of AIRPAV, was reviewed and converted to be compatible with the MicroPAVER[™] system. This data conversion included all documented pavement facilities, classifications, types, histories, geometries, PCI condition data and pertinent attributes gathered from airport feedback at the time. This information was used to develop the inventory of each participating airport's pavement facilities in a consistent format. This was the development of Airfield Pavement Network Definition Exhibits. These inventory exhibits visually depicted the branch, section, and sample units that were based upon the pavement construction history and composition information provided by each airport.

In the 2006-2008 system update, the SAPMP was updated again with continued use of the MicroPAVER[™] system. Based on the distress data collected, a maintenance repair and major rehabilitation planning program was developed for each airport. As part of this SAPMP update, the procedures for the inspection and the collection of the pavement distress data were documented, and an interactive website (http://www.dot.state.fl.us/aviation/pavement.shtm) was established for input of data.

In the 2010-2012 system update, the SAPMP was updated using new global positioning system (GPS) integrated technology to digitally collect pavement distress data. Interactive geographic information system (GIS) map files were developed from updated Airfield Pavement Network Definition Exhibits to aid pavement condition inspectors in the collection of sample distress data. The data collected was utilized to develop pavement performance models to predict future pavement PCI values and make recommendations for major rehabilitation.

In the 2013-2015 system update, the SAPMP integrated PAVER[™] and FieldInspector[™] with the use of GPS and GIS capable field tablets. Furthermore, the update included continued adherence to the ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys." The ASTM update consisted of refinement of distress definition types and deduction values for select asphalt concrete and Portland Cement Concrete distresses.



1.6 Federal Aviation Administration (FAA)

Currently, airports participating in the Airport Improvement Program (AIP) Grant Program are required by the FAA to develop and implement a pavement maintenance program to be eligible for funding (FAA Advisory Circular 150/5380-6C "Guidelines and Procedures for *Maintenance of Airport Pavements*" and 150/5380-7B "Airport Pavement Management **Program (PMP)**"). This program requires detailed inspection of airfield pavement conditions by trained personnel. The inspections are required to be performed at least once a year using the PASER method or every three years if the pavement is inspected as defined by the PCI survey procedure in accordance with the ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys."

In general, adherence to the Advisory Circulars are mandatory for all projects funded with federal grant monies through the AIP program and with revenue from the Passenger Facilities Charges (PFC) Program. Further information is detailed in FAA Grant Assurance No. 11 "Pavement Maintenance," No. 34 "Policies, Standards, and Specifications," and PFC Assurance No. 9 "Standards and Specifications."

1.7 FDOT SAPMP Objectives and Components

The FDOT SAPMP is a program that provides the FAS support in implementing and/or maintaining a network-level Pavement Management Program in a consistent and regularly scheduled manner.

In accordance with FAA AC150/5380-7B "Airport Pavement Management Program (PMP)" an effective Pavement Management Program consists of a system that achieves specific objectives. The FDOT SAPMP objectives are as follows:

1.7.1 Program Objectives

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

The objectives are accomplished by the following components:

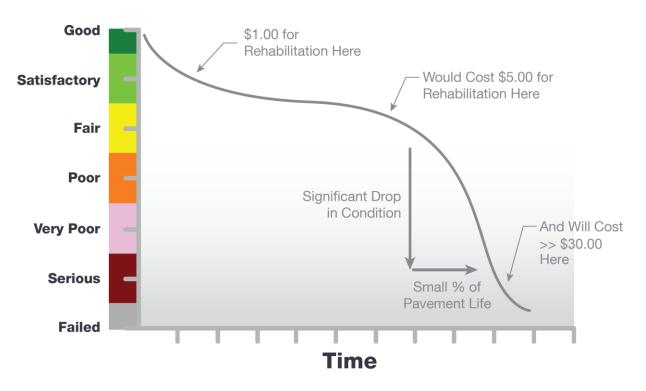
1.7.2 Program Components

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



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

A well-maintained network-level pavement management program may provide airport staff a better understanding of the airfield pavement performance for developing and planning for specific maintenance, repair, and major rehabilitation projects. The understanding of specific distress types and severities will assist the airport in addressing pavement maintenance and repair with the appropriate treatments as defined by the FAA Advisory Circular 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements." The development of projects with an understanding of system inventory, deterioration details, and pavement condition forecasts may assist airport staff in developing practical rehabilitation actions and budgets. Furthermore, the understanding of pavements' past performance and forecasted condition may assist airport staff in addressing pavement rehabilitation in a timely and costeffective manner. Figure 1.7-1 Typical Pavement Condition Life Cycle, which is based on the FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)." Figure 1.7-1 Typical Pavement Condition Life Cycle, depicts a general duration of a pavement section and identifies the ideal condition to perform rehabilitative treatments at an optimal cost rather than allowing significant increase in rate of deterioration that would result in increased costs.

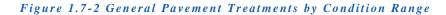


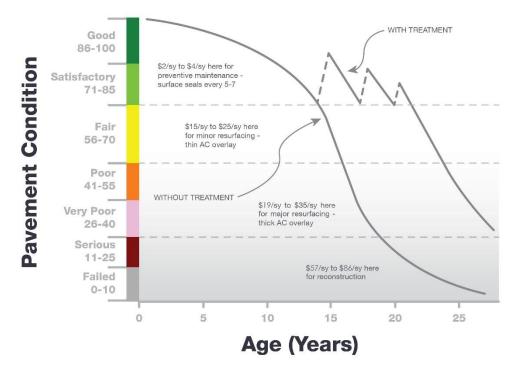


*Figure is for conceptual purposes only – unit costs are not specific to airfield pavements (AC vs PCC).

Figure 1.7-2 General Pavement Treatments by Condition Range depicts generic flexible asphalt concrete (AC) pavement treatments that are effective at specific condition ranges. This graphic is a general concept and will vary based on pavement surface type and overall

composition. The intent is to convey various treatment types that would be effective based on the condition of the pavement along the deterioration model.





Pavement maintenance, repair, and major rehabilitation would be quite anticipatory if all pavements behaved as depicted in **Figures 1.7-1 and 1.7-2**, however pavement condition performance vary significantly based on several factors. Factors that contribute to a pavement section's condition and deterioration performance may include: functional design life, material type, material construction quality, climatic conditions, aircraft loading type and frequency, non-aircraft loading type and frequency, maintenance history, subgrade conditions, and other infrastructure in the vicinity. The list of factors is not all-inclusive of all factors that may contribute to a pavement's life cycle, it is intended to clarify that unique conditions certainly will affect a pavement's deterioration.

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

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	PCI Range	Representative PCI	Representative Pavement Surface	Rehabilitation Activities
Routine Maintenance	86-100	90		Pavements with PCI values above 85, or 'Good', may require periodic joint/crack sealing and local patching.
Pavement Preservation	65-85	70		Pavements with PCI conditions ranging from 'Fair' to 'Satisfactory' may require surface treatments (seal coat), thin overlays, and/or joint/crack sealing.
Major Rehabiliation	40-64	50		Pavements that have deteriorated below a PCI 65, or within the range of 'Very Poor' to 'Fair' conditions, may require major rehabilitation such as pavement mill and overlay or partial full-depth reconstruction.
Major Reconstruction	0-39	15		Pavements that have deteriorated below a PCI 40, or within the range of 'Failed' to 'Very Poor' conditions, may require major reconstruction.

Figure 1.7-3 Flexible Asphalt Concrete



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

1.8 References

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

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



Chapter 2

Chapter 2 – Methodology

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

2.1 Airfield Pavement Database

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

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

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

2.2 Airfield Pavement System Inventory

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

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

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

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

2.2.1 Pavement Management Program Network Definition Terminology

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

Pavement Network

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

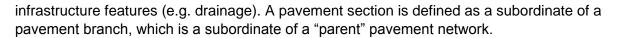
The SAPMP System Update consists of research and evaluation of existing record documentation for the participating airports' airfield facilities. The pavement network is typically limited to the pavement facilities subject to aircraft use that is also maintained by the airport owner and eligible for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

Pavement Branch

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

Pavement Section

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



Pavement Sample Unit

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

PMS Network Level	Common Definition	Airport Example		
Network	Overall pavement assets maintained by the Airport	"Tallahassee International Airport – Airfield Pavements"		
Branch Name	Commonly defined asset name as established by Airport and by use	"Runway 18-36"		
Branch ID	Codified shorthand name for commonly defined asset established for database identification	"RW 18-36" RW, Branch Use, "Runway" 18-36, Runway Facility		
Section ID	Codified identification for pavement asset that is distinct by the following: Pavement Composition Construction Work History Aircraft Traffic Condition Records	"6105"		
Sample Unit	A numeric identification of an area of pavement (5,000±2,000 SF of AC or 20±8 slabs of PCC) that has been inspected in accordance with ASTM D5340-12.	"300"		

Table 2.2.1 Airfield Pavement Database Network Definition Terminology

2.3 Airfield Pavement Structure

2.3.1 Pavement Structure Types

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

Flexible Asphalt Concrete Surface

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

Asphalt Concrete (AC)

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

Asphalt Concrete Overlaid on Asphalt Concrete (AAC)

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

Asphalt Concrete Overlaid on Portland Cement Concrete (APC)

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



Rigid Portland Cement Concrete Surface

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

Portland Cement Concrete (PCC)

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

Composite Structure – Whitetopping Pavement

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

Conventional Whitetopping (WHT)

A composite pavement structure consisting of a modified PCC overlaid on an existing flexible AC pavement section area. The modified PCC layer is typically greater than 6-inches in thickness.

Thin Whitetopping (TWT)

A composite pavement structure consisting of a modified PCC overlaid on an existing flexible asphalt concrete pavement section. The modified PCC layer is typically between 4 and 6 inches in thickness.

Ultra-Thin Whitetopping (UTW)

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



2.4 Airfield Pavement Work History

2.4.1 Airfield Pavement Record Keeping

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

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

2.5 Airfield Pavement Traffic

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

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

2.6 Airfield Pavement Condition Index (PCI) Survey

2.6.1 PCI Survey Methodology

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

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



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

2.6.2 Pavement Distress Types

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

Table 2.6.2-1 (a) Pavement Distress Types – Flexible Asphalt Concrete-Surfaced Airfields

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

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Table 2.6.2-1 (b) Pavement Distresses Possible Causes – Flexible Asphalt Concrete-SurfacedAirfields

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

Table 2.6.2-1 (c) Pavement Distresses Possible Effects – Flexible Asphalt Concrete-SurfacedAirfields

Classification by Possible Effects							
Roughness	Skid / Hydroplaning Potential	FOD Potential	Rate of Deterioration and Maintenance Requirements				
 Corrugation Depression Rutting Shoving of asphalt pavement Swelling Raveling Weathering 	 Bleeding Depression Polished Aggregate Rutting 	 Block Cracking Joint Reflection Cracking L/T Cracking Slippage Cracking 	All Distresses				



Table 2.6.2-2 (a) Pavement Distresses – Rigid Portland Cement Concrete-Surfaced Airfields

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

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

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

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

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



2.6.3 PCI Survey Inspection Procedures

Inspection Sampling Rate

The FDOT SAPMP performs PCI Survey Inspections on sample units defined in the previous update. The sample units are subject to change at the discretion of the inspection personnel and/or to major pavement rehabilitation treatments. Furthermore, access to the sample units based on accessibility or impacts to operations may affect the overall sampling rate effort at each airport. The following **Tables 2.6.3 (a) and (b)** define the sampling criteria used by the FDOT SAPMP. A higher sampling rate may be utilized to achieve a greater statistical confidence should the airport have the available resources to perform PCI Survey Inspections independent of the FDOT SAPMP.

Table 2.6.3 (a) Recommended Sample Rate Schedule for Flexible Asphalt Concrete

Number of Total	Sample Units to Inspect				
Sample Units in Section	Runways	Taxiways, Aprons, and Others			
1 - 4	1	1			
5 - 10	2	1			
11 - 15	3	2			
16 - 30	5	3			
31 - 40	7	4			
41 - 50	8	5			
51 or more	20% but ≤20	10% but ≤10			

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

Number of Total	Sample Units to Inspect				
Sample Units in Section	Runways	Taxiways, Aprons, and Others			
1 - 3	1	1			
4 - 6	2	1			
7 - 10	3	2			
11 - 15	4	2			
16 - 20	5	3			
21 - 30	7	3			
31 - 40	8	4			
41 - 50	10	5			
51 or more	20% but ≤20	10% but ≤10			



2.6.4 Updates to the ASTM D5340-12

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

Flexible Asphalt Concrete Pavement Distress Updates

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

Rigid Portland Cement Concrete Pavement Distress Updates

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



Use and Surface Type	Updated Distress	Former Distress in Prior to 5340-10	Deduction Curve	Potential Effect
AC/AAC/ APC Airfield	(52) Raveling - Low	(52) Weathering and Raveling - Low	No Change	N/A
	(52) Raveling - Medium	(52) Weathering and Raveling - Medium	No Change	N/A
	(52) Raveling - High	(52) Weathering and Raveling - High	No Change	N/A
	(57) Weathering - Low	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
	(57) Weathering - Medium	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
	(57) Weathering - High	N/A – was part of 'Weathering and Raveling'	New	Increase in PCI with no maintenance
PCC Airfield	(70) Scaling - Low	(70) Scaling, Map Cracking, and Crazing - Low	New	Increase in PCI with no maintenance
	(70) Scaling - Medium	(70) Scaling, Map Cracking, and Crazing - Medium	New	Increase in PCI with no maintenance
	(70) Scaling - High	(70) Scaling, Map Cracking, and Crazing - High	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Low	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – Medium	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(76) Alkali Silica Reaction – High	N/A – was part of 'Scaling, Map Cracking, and Crazing'	New	Increase in PCI with no maintenance
	(73) Shrinkage Cracking	(73) Shrinkage Cracking	No Change	Prior distress types identified as 'Scaling, Map Cracking, and Crazing' may now be identified as 'Shrinkage Cracking'

Table 2.6.4 Summary of Updates to ASTM D5340-12

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Chapter 3



Chapter 3 – Airfield Pavement System Inventory

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

3.1 Airfield Pavement Network Information

3.1.1 Previous and/or Anticipated Airfield Pavement Construction

Based on information provided by the airport, the following **Table 3.1.1** summarizes the airfield pavement construction projects that have been incorporated into the SAPMP database system since the 2013-2015 System Update. **Figure 3.1.1-1** and **Figure 3.1.1-2** provides an inset view of the 2017 Airfield Pavement Network Definition Exhibit and the 2017 Airfield Pavement System Inventory Exhibits that depict the updated network details for the airport reflected in the PAVER Database. Large format exhibits are referenced in **Appendix C Technical Exhibits**.

Year	General Work Description
2013	RW 18-36 - Rehabilitation

The airport provided a limited combination of record drawings, reports, and staff input that was pertinent information in developing the construction history of the airport's pavements from inception. Major rehabilitation/construction activities performed in the last 24-months or anticipated in the next 24-months are assumed to restore the PCI to 100. These activities include: pavement overlay, mill and replace, mill and overlay, new construction, and/or complete reconstruction. These pavements were not formally subject to a PCI Survey and actual conditions may vary. Furthermore, any localized maintenance or repair performed that would improve the PCI will be considered in the condition analysis, if performed within inspection areas.

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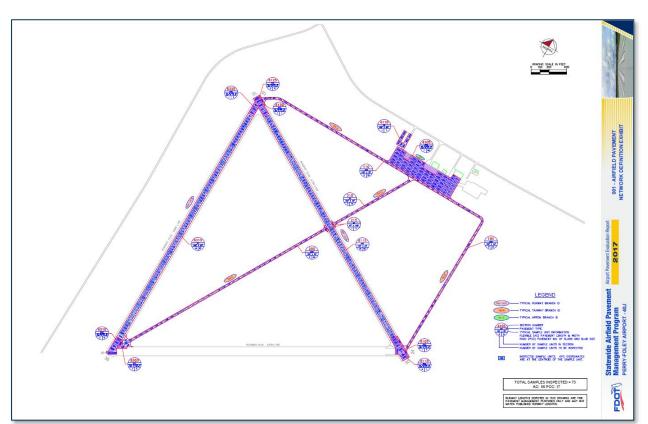
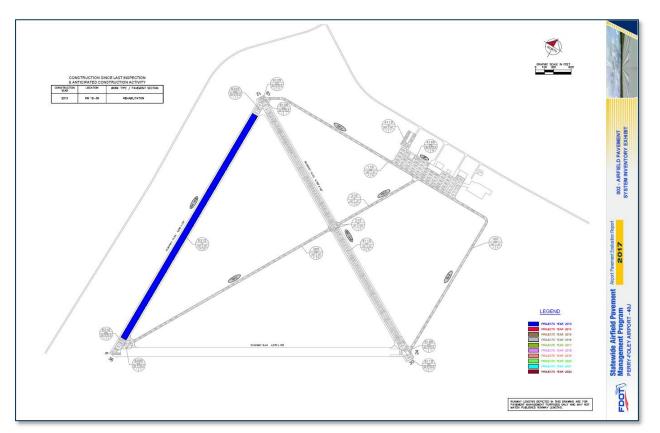


Figure 3.1.1-1 2017 Airfield Pavement Network Definition Exhibit

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

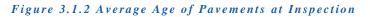


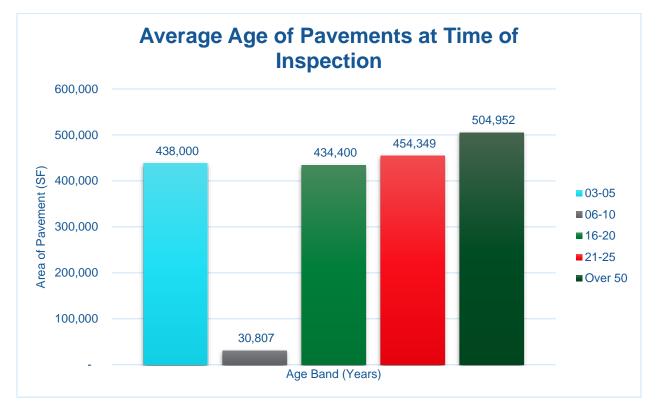


The Airfield Pavement System Inventory Exhibit provides details to the work history updates communicated by the Airport. The Exhibit provides the approximate limits of recent and/or anticipated construction on the airfield pavement facilities. The limits are based on documentation provided by the Airport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

3.1.2 Estimated Pavement Age

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





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

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3.1.3 Functional Use Classification

Pavements are subject to varying aircraft loading patterns based on utilization and overall operations. For this SAPMP Update, the following categories of airfield functional use have been identified and associated with the following possible pavement branch facilities: Apron, Runway, Taxiway, and Taxilane. **Figure 3.1.3** summarizes the identified pavements' functional use by area in square feet. The pavement areas reviewed exclude shoulder pavement facilities.

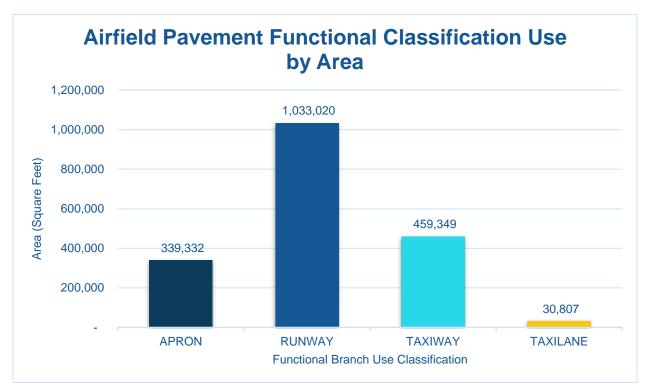


Figure 3.1.3 Airfield Pavement Functional Classification Use by Area

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3.1.4 Pavement Surface Type

The airfield pavement facility surface types within the SAPMP include four common types of pavement: Portland cement concrete (PCC), asphalt concrete (AC), asphalt concrete overlaid on asphalt concrete (AAC), and asphalt concrete overlaid on Portland cement concrete (APC).

Based on the record documentation incorporated within the SAPMP database throughout the years, the pavement surface types have been assigned to the various pavement sections in accordance to its work history composition. The following **Figures 3.1.4 (a) and (b)** summarize the applicable pavement types observed at this specific airport's airfield.

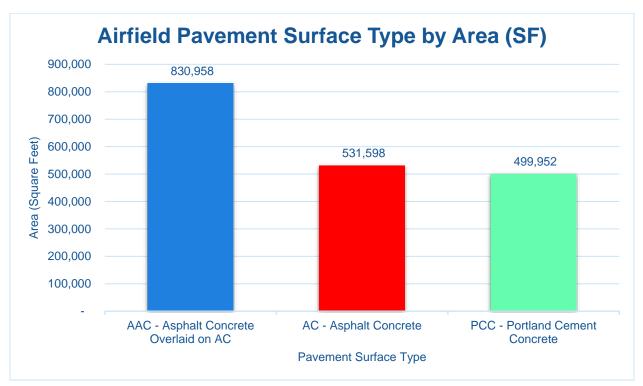
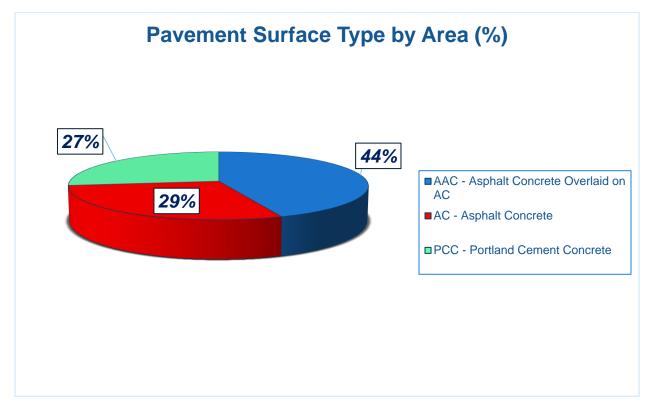


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)





3.1.5 Pavement System Inventory Details

The following **Table 3.1.5** displays the section-level details assembled as part of this update. The section-level details are based on the record documentation provided by the airports to FDOT and from SAPMP System Updates. The details assembled rely on the accuracy and the adequacy of data provided; however, it should be noted that characteristics such as pavement areas may be based on aerial interpretation of spatially projected imagery. The accuracy of data is presented with the intention of a network planning-level document; should the airport elect to perform rehabilitation work, it is recommended that further investigation be performed at the project level for construction purposes.

In summary, the scope of the pavement inventory update resulted in the updating of select existing pavement geometry and the development of an AutoCAD model with spatial projection for use within GIS. **Appendix A** includes the Airfield Pavement Network Definition Exhibit and the Airfield Pavement System Inventory Exhibit which visually summarize the results of the Airfield Pavement System Inventory analysis and reporting.

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Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
40J	APRON	AP	APRON	4105	1200	300	339,332	PCC	1/1/1945
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6105	850	25	10,250	PCC	1/1/1945
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6110	425	100	45,034	PCC	1/1/1945
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6115	4325	100	434,400	AAC	1/1/1997
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6125	345	100	32,882	PCC	1/1/1945
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6130	200	25	4,875	PCC	1/1/1945
40J	RUNWAY 18-36	RW 18-36	RUNWAY	6305	425	25	10,996	PCC	1/1/1945
40J	RUNWAY 18-36	RW 18-36	RUNWAY	6310	250	100	35,176	PCC	1/1/1945
40J	RUNWAY 18-36	RW 18-36	RUNWAY	6315	4370	100	438,000	AC	1/1/2013
40J	RUNWAY 18-36	RW 18-36	RUNWAY	6325	260	100	21,407	PCC	1/1/1945
40J	T-HANGAR TAXILANE	T-HANGAR	TAXILANE	4110	600	50	30,807	AC	7/1/2009
40J	TAXIWAY A & B	TW A & B	TAXIWAY	105	3700	35	131,781	AAC	1/1/1995
40J	TAXIWAY A & B	TW A & B	TAXIWAY	110	3200	35	111,959	AAC	1/1/1995
40J	TAXIWAY C	TW C	TAXIWAY	205	4200	35	152,818	AAC	1/1/1995
40J	TAXIWAY C	TW C	TAXIWAY	210	1500	35	57,791	AC	1/1/1995
40J	TAXIWAY C	TW C	TAXIWAY	215	200	25	5,000	AC	1/1/1945

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Chapter 4

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Chapter 4 – Airfield Pavement Condition

The examination of specific distress types (with causes attributed to load, climate, or other defined distress mechanism), determination of the severity of distress, and determination of the quantity of distress manifestation are required in the computation of a PCI value. The PCI provides valuable information that can be used to determine the existing condition of the pavement, possible cause of the pavement deterioration, and eventually aid in the planning of the rehabilitation of pavements. It should be noted that the PCI method of pavement condition evaluation is strictly a visual and functional evaluation. Further evaluation of the pavement rehabilitation.

4.1 Airfield Pavement Condition Index (Latest Inspection)

4.1.1 Network-Level Analysis

The following **Figure 4.1.1** summarizes the network-level pavement condition analysis based on the most recent PCI Survey inspection results.

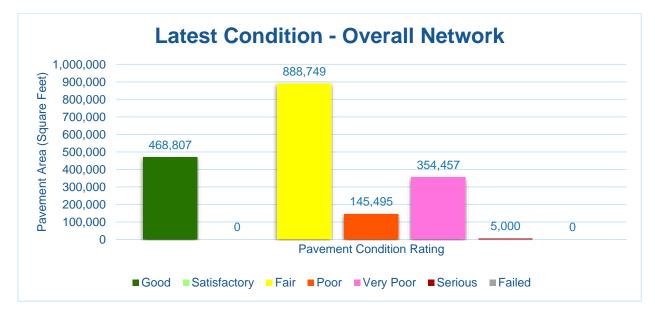


Figure 4.1.1 Latest Condition – Overall Network

4.1.2 Branch-Level Analysis

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



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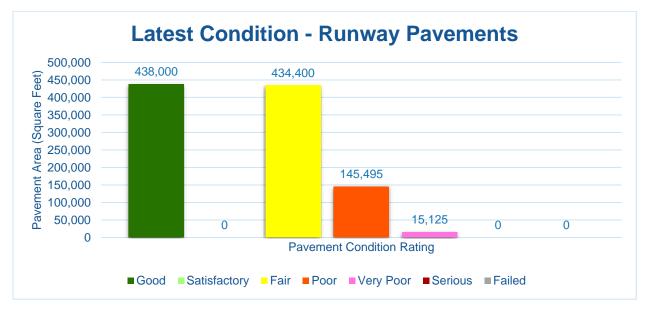
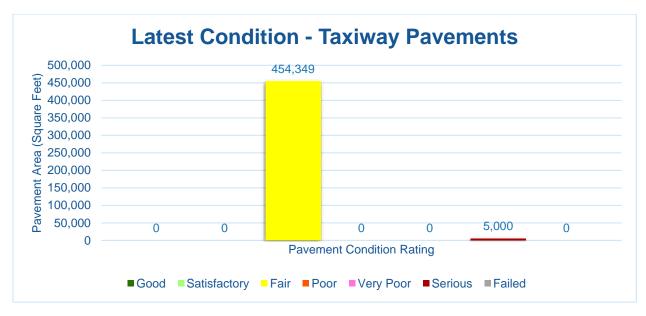


Figure 4.1.2 (b) Latest Condition – Taxiway Pavements



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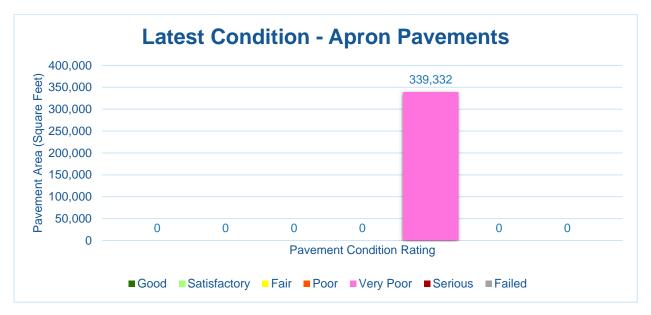


Figure 4.1.2 (d) Latest Condition – Taxilane Pavements



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4.1.3 Section-Level Analysis

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

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

Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI Pct Climate	PCI Pct Load	PCI Pct Other	Sample Units Inspected	Total Sample Units in Section
40J	AP	APRON	APRON	4105	339,332	PCC	38	Very Poor	8%	64%	28%	7	58
40J	RW 12-30	RUNWAY 12-30	RUNWAY	6105	10,250	PCC	35	Very Poor	13%	54%	33%	1	2
40J	RW 12-30	RUNWAY 12-30	RUNWAY	6110	45,034	PCC	46	Poor	15%	48%	37%	2	7
40J	RW 12-30	RUNWAY 12-30	RUNWAY	6115	434,400	AAC	63	Fair	100%	0%	0%	18	87
40J	RW 12-30	RUNWAY 12-30	RUNWAY	6125	32,882	PCC	46	Poor	16%	63%	21%	2	5
40J	RW 12-30	RUNWAY 12-30	RUNWAY	6130	4,875	PCC	34	Very Poor	8%	66%	26%	1	1
40J	RW 18-36	RUNWAY 18-36	RUNWAY	6305	10,996	PCC	52	Poor	0%	47%	53%	1	2
40J	RW 18-36	RUNWAY 18-36	RUNWAY	6310	35,176	PCC	54	Poor	0%	32%	68%	2	6
40J	RW 18-36	RUNWAY 18-36	RUNWAY	6315	438,000	AC	89	Good	100%	0%	0%	18	87
40J	RW 18-36	RUNWAY 18-36	RUNWAY	6325	21,407	PCC	54	Poor	19%	58%	23%	1	3
40J	T-HANGAR	T-HANGAR TAXILANE	TAXILANE	4110	30,807	AC	90	Good	100%	0%	0%	1	7
40J	TW A & B	TAXIWAY A & B	TAXIWAY	105	131,781	AAC	58	Fair	95%	0%	5%	5	37
40J	TW A & B	TAXIWAY A & B	TAXIWAY	110	111,959	AAC	59	Fair	100%	0%	0%	5	32
40J	TW C	TAXIWAY C	TAXIWAY	205	152,818	AAC	56	Fair	100%	0%	0%	5	42
40J	TW C	TAXIWAY C	TAXIWAY	210	57,791	AC	59	Fair	100%	0%	0%	3	15
40J	TW C	TAXIWAY C	TAXIWAY	215	5,000	AC	22	Serious	72%	28%	0%	1	2

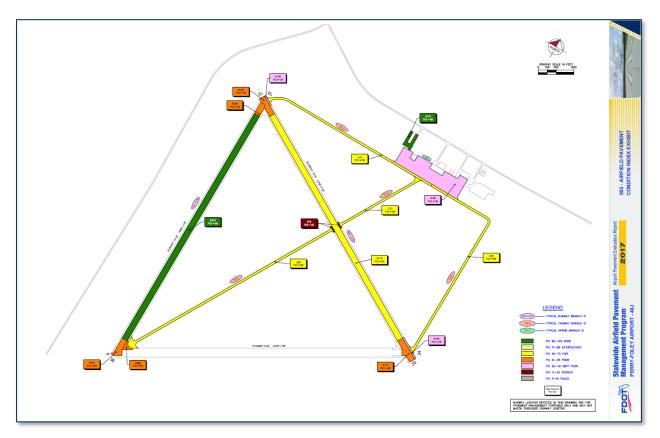
Table 4.1.3 Latest Pavement Condition Index Summary



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Figure 4.1.3 is an inset view of the 2017 Airfield Pavement Condition Index Exhibit that visually represents the results of the latest PCI Survey inspection. A large format exhibit is located in **Appendix C Technical Exhibits.**

Perry-Foley Airport (40J)





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4.2 Summary of Pavement Condition Evaluation Results

4.2.1 Network-Level Observations

The field PCI Survey performed at Perry-Foley Airport (40J) started on 02/08/2017 and was completed on 02/09/2017. The resulting overall average area-weighted PCI value was 62 representing a condition rating of Fair. Two runways serve Perry-Foley Airport; Runway 12-30 which is 100-ft wide and 4,754-ft long and Runway 18-36 which is 100-ft wide and 4,986-ft long.

Based on the FAA 5010 Report as of 06/12/2017 the Airport has reported 18,400 operations for 12 months ending 04/20/2016.

4.2.2 Branch-Level Observations

Runway 12-30

Runway 12-30 consists of 5 sections constructed of AAC and PCC. The last construction years range from 1945 to 1997. The average area-weighted PCI for Runway 12-30 is 59 representing a Fair condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in Runway 12-30 consist of Longitudinal & Transverse Cracking, Raveling, Corner Break, Linear Cracking, Joint Seal Damage, Small Patch, Large Patch/Utility Cut, Faulting, Shattered Slab, Shrinkage Cracking, Joint Spall, and Corner Spall.

Runway 18-36

Runway 18-36 consists of 4 sections constructed of AC and PCC. The last construction years range from 1945 to 2013. The average area-weighted PCI for Runway 18-36 is 84 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in Runway 18-36 consist of Longitudinal & Transverse Cracking, Patching, Weathering, Corner Break, Linear Cracking, Joint Seal Damage, Small Patch, Faulting, Shrinkage Cracking, and Joint Spall.

Taxiway C

Taxiway C consists of 3 sections constructed of AC and AAC. The last construction years range from 1945 to 1995. The average area-weighted PCI for Taxiway C is 56 representing a Fair condition rating. The pavement distresses observed were related to Climate and Load distress classifications. Distresses observed in Taxiway C consist of Alligator Cracking, Block Cracking, Longitudinal & Transverse Cracking, Patching, and Raveling.

Apron

Apron consists of 1 section constructed of PCC. The last construction year for Apron was 1945. The average area-weighted PCI for Apron is 38 representing a Very Poor condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed in Apron consist of Linear Cracking, Joint Seal Damage, Small Patch, Large Patch/Utility Cut, Scaling, Faulting, Shattered Slab, Shrinkage Cracking, Joint Spall, and Corner Spall.



Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Average Area-Weighted PCI	Condition Rating
Runway	71	Satisfactory
Taxiway	57	Fair
Apron	38	Very Poor
Taxilane	90	Good

4.3 Forecasted Pavement Conditions

4.3.1 Performance Models and Prediction Curves

Pavement Performance Models are developed from the distress data and historic construction records collected for the SAPMP. This data is consolidated in a database and organized by inspection/construction date, pavement type, age, and pavement use. The pavement Performance Models are used to develop broad Prediction Curves, alternatively known as deterioration curves or family curves. These Prediction Curves are utilized to developed forecasted PCI values based on historic trends and statistical models.

4.3.2 Branch-Level Pavement Condition Forecast

The following **Figures 4.3.2 (a) through (c)** depict the branch-level pavement condition forecast by Branch Use (Runway, Taxiway, and/or Apron). The forecasted conditions are for a 10-year duration starting in January 2018 through January 2027.

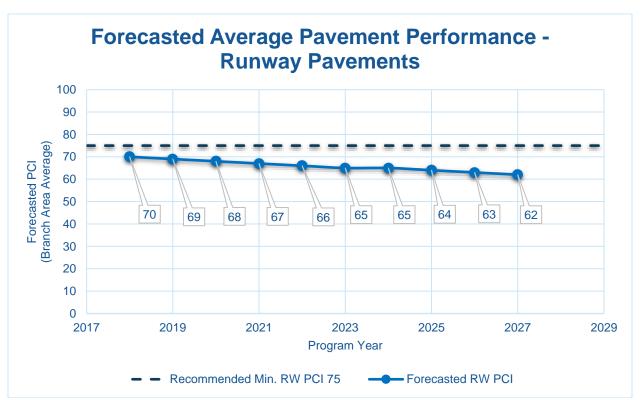


Figure 4.3.2 (a) Forecasted Runway Pavement Performance



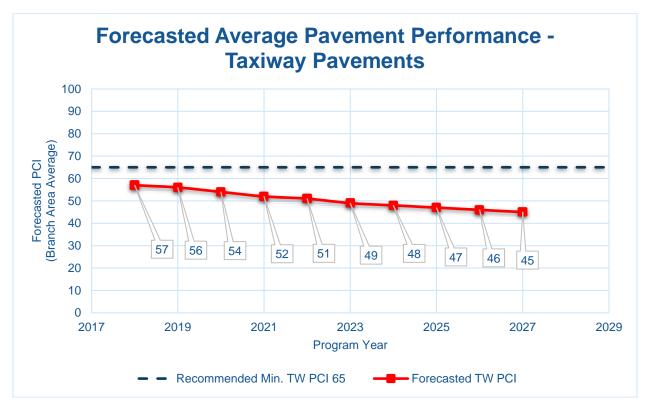
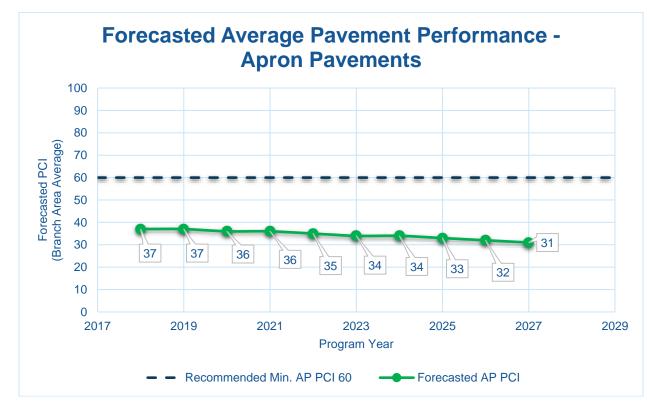


Figure 4.3.2 (c) Forecasted Apron Pavement Performance







4.3.3 Section-Level Pavement Condition Forecast

The following Table 4.3.3 provides detail to the forecasted PCI values for each section inspected. Please note the forecasted Branch- and Section-Level PCI's are for planning purposes and are subject to the sensitivities in changes in traffic and maintenance frequency. Airport staff should perform annual visual condition assessments to maintain recent understanding of pavement conditions.

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Table 4.3.3 Forecasted PCI 2018-2027

Network ID		Forecasted PCI											
Network ID	Network ID Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
40J	AP	4105	38	37	37	36	36	35	34	34	33	32	31
40J	RW 12-30	6105	35	34	33	32	31	30	30	29	28	27	26
40J	RW 12-30	6110	46	45	44	43	42	41	41	40	39	38	37
40J	RW 12-30	6115	63	62	61	61	60	60	60	60	60	60	60
40J	RW 12-30	6125	46	45	44	43	42	41	41	40	39	38	37
40J	RW 12-30	6130	34	33	32	31	30	29	29	28	27	26	25
40J	RW 18-36	6305	52	51	50	49	48	47	47	46	45	44	43
40J	RW 18-36	6310	54	53	52	51	50	49	49	48	47	46	45
40J	RW 18-36	6315	89	87	85	84	82	81	79	77	76	74	72
40J	RW 18-36	6325	54	53	52	51	50	49	49	48	47	46	45
40J	T-HANGAR	4110	90	87	85	82	80	78	76	74	73	71	70
40J	TW A & B	105	58	56	54	53	51	49	48	47	46	45	44
40J	TW A & B	110	59	57	55	54	52	50	49	47	46	45	44
40J	TW C	205	56	54	52	51	49	48	46	45	45	44	44
40J	TW C	210	59	57	56	55	54	52	51	49	47	46	44
40J	TW C	215	22	19	16	13	10	8	5	2	0	0	0



4.3.4 Forecasted PCI Considerations

As FDOT continues to update the SAPMP with future PCI Survey inspections and assembly of airfield pavement construction work history, the performance models will be further refined. With the refinement of additional PCI and work history data points, the forecasting of pavement conditions will continue to better reflect the performance trends of airfield pavements in the Florida Airports System. Forecasted or predicted pavement conditions for the airport are intended for planning purposes only. Design-level recommendations for pavement rehabilitation and/or reconstruction will require the appropriate application of the procedures defined in FAA *AC 150/5320-6F Airport Pavement Design and Evaluation* and *AC 150/5370-11B Use of Nondestructive Testing in the Evaluation of Airport Pavements* to determine structural and/or functional conditions at the time of project.

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Chapter 5

Chapter 5 – Localized Maintenance and Repair Planning

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

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

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

5.1 Localized Maintenance and Repair

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

Localized Stopgap/Safety Maintenance and Repair

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

Localized Preventive Maintenance and Repair

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



5.2 Localized Maintenance and Repair Policy

The resulting Localized Maintenance and Repair recommendations are identified based on the policy defined in **Table 5.2.1** and **Table 5.2.2**, for flexible asphalt concrete and rigid Portland cement concrete pavements, respectively. The activities identified were based on the research of practical pavement treatments in consideration of the FAA *AC 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements"* and the *FDOT Airfield Pavement Distress Repair Manual.* Additionally, the *Engineering Technical Letter (ETL) 14-3: Preventive Maintenance Plan (PMP) for Airfield Pavements* was referenced for conservative application of pavement treatments. The Localized Maintenance and Repair Policy and associated planning-level unit costs were developed in consideration of a network-level analysis – it is strictly intended to provide a glimpse of the condition of the airport pavements with a limited PCI survey effort.

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

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

Table 5.2-1 Localized Maintenance and Repair – Flexible Asphalt Concrete

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Distress	Severity	Description	Code	Work Type	Work Unit
48	Low	L&TCR	FDOT-MO-PV	FDOT - MONITOR	N/A
48	Medium	L & T CR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
48	High	L&TCR	FDOT-CS-AC	FDOT - CRACK SEALING - AC	Ft
49	N/A	OIL SPILLAGE	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
50	Low	PATCHING	FDOT-MO-PV	FDOT - MONITOR	N/A
50	Medium	PATCHING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
50	High	PATCHING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
51	N/A	POLISHED AG	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
52	Low	RAVELING	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
52	Medium	RAVELING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
52	High	RAVELING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
53	Low	RUTTING	FDOT-MO-PV	FDOT - MONITOR	N/A
53	Medium	RUTTING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
53	High	RUTTING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
54	Low	SHOVING	FDOT-MO-PV	FDOT - MONITOR	N/A
54	Medium	SHOVING	FDOT-ML-AC	FDOT - MILLING - AC	SqFt
54	High	SHOVING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
55	N/A	SLIPPAGE CR	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt
56	Low	SWELLING	FDOT-MO-PV	FDOT - MONITOR	N/A
56	Medium	SWELLING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
56	High	SWELLING	FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	SqFt
57	Low	WEATHERING	FDOT-MO-PV	FDOT - MONITOR	N/A
57	Medium	WEATHERING	FDOT-SS-LO	FDOT - SURFACE SEAL	SqFt
57	High	WEATHERING	FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	SqFt

Table 5.2-2 Localized Maintenance and Repair – Rigid Portland Cement Concrete

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

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



Table 5.2-3 (a) Localized Repair Planning-Level Unit Costs – Flexible Asphalt Concrete

Code	Name	Cost	Units
FDOT-SS-LO	FDOT - SURFACE SEAL	\$0.55	SqFt
FDOT-ML-AC	FDOT - MILLING - AC	\$2.00	SqFt
FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	\$2.00	Ft
FDOT-CS-AC	FDOT - CRACK SEALING - AC	\$3.00	Ft
FDOT-MO-PV	FDOT - MONITOR	\$0.00	SqFt
FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	\$6.00	SqFt
FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	\$3.00	SqFt

Table 5.2-3 (b) Localized M&R Planning-Level Unit Costs – Rigid Portland Cement Concrete

Code	Name	Cost	Units
FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	\$100.00	SqFt
FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	\$30.00	SqFt
FDOT-SB-PC	FDOT - SLAB STABILIZATION - PCC	\$30.00	SqFt
FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	\$72.00	SqFt
FDOT-PO-FL	FDOT - POPOUT FILLER	\$0.05	SqFt
FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	\$2.00	Ft
FDOT-CS-PC	FDOT - CRACK SEALING - PCC	\$4.25	Ft
FDOT-MO-PV	FDOT - MONITOR	\$0.00	N/A
FDOT-JS-PC	FDOT - JOINT SEAL - PCC	\$2.75	Ft

*PCC Patching (Full Depth and Partial Depth) consider high-early-strength and high-performing repair material.



5.3 Localized Maintenance and Repair Analysis and Recommendations

The SAPMP provides a planning-level estimation of Localized Maintenance and Repair based on the results of the latest PCI Survey Inspection performed at the airport. Based on the limited sample units inspected, a statistical extrapolation of distresses at the section level is used to estimate the quantities of recommended repair activities based on the policies defined in 5.2 Localized M&R Policy. The PCI Survey Inspections did not consist of 100% inspection of all sample units; therefore, the section-level distress quantities used to estimate the Localized Maintenance and Repair needs are for conceptual planning purposes. The accuracy of the extrapolated distresses, and therefore work quantities, is subject to the amount of sample units inspected and the concentration of distress types observed in sample units. Appendix B provides the estimated Localized Maintenance and Repair based on this SAPMP's PCI Survey Inspection efforts. Localized Preventive Maintenance and Repair is typically applied to pavements that are in a condition at or above the Critical PCI of 65. Localized Stopgap Maintenance and Repair is typically applied to pavements that are below the Critical PCI of 65. It is recommended that airport staff evaluate the application of Localized Maintenance and Repair in concert with the planning of Major Rehabilitation efforts identified in Chapter 6 Major Rehabilitation Planning. Pavements with Stopgap recommendations that are subject to nearterm Major Rehabilitation efforts may remove the need to perform localized maintenance efforts.

The following **Table 5.3-1** summarizes the anticipated Localized Maintenance and Repair efforts based on the PCI Survey Inspection efforts performed at this airport as part of this SAPMP System Update. The following table depicts planning-level costs rounded to the nearest ten dollars.

Work Description	Work Category	Rough Estimate of Work Quantity	Work Units	Plann	ing Material Cost
FDOT - PATCHING - PCC PARTIAL DEPTH	STOPGAP	1,825	SqFt	\$	131,300.00
FDOT - SLAB REPLACEMENT - PCC	STOPGAP	16,560	SqFt	\$	496,680.00
FDOT - JOINT SEAL - PCC	STOPGAP	27,635	Ft	\$	76,000.00
FDOT - CRACK SEALING - PCC	STOPGAP	10,960	Ft	\$	46,580.00
FDOT - CRACK SEALING - AC	STOPGAP	6,765	Ft	\$	20,290.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	43,685	SqFt	\$	131,050.00
FDOT - SURFACE SEAL	STOPGAP	849,545	SqFt	\$	467,260.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	455	SqFt	\$	2,730.00
FDOT - GRINDING (LOCALIZED)	STOPGAP	120	Ft	\$	240.00
FDOT - PATCHING - PCC FULL DEPTH	STOPGAP	470	SqFt	\$	46,560.00

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

The following Table 5.3-2 provides further breakdown of the anticipated planning-level cost at the section level for the pavements exhibiting distresses that would benefit from Localized M&R. The table shows the approximate improved "End Condition" of the section after the application of Localized M&R. The following table depicts planning-level costs rounded to the nearest ten dollars.

Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
40J	AP	4105	339,332	38	56	\$ 739,560.00
40J	RW 12-30	6105	10,250	35	64	\$ 11,610.00
40J	RW 12-30	6110	45,034	46	69	\$ 18,810.00
40J	RW 12-30	6115	434,400	63	87	\$ 270,630.00
40J	RW 12-30	6125	32,882	46	68	\$ 13,630.00
40J	RW 12-30	6130	4,875	34	58	\$ 2,200.00
40J	RW 18-36	6305	10,996	52	66	\$ 1,070.00
40J	RW 18-36	6310	35,176	54	59	\$ 1,960.00
40J	RW 18-36	6315	438,000	89	89	\$ -
40J	RW 18-36	6325	21,407	54	73	\$ 8,730.00
40J	T-HANGAR	4110	30,807	90	90	\$ -
40J	TW A & B	105	131,781	58	85	\$ 77,550.00
40J	TW A & B	110	111,959	59	88	\$ 64,750.00
40J	TW C	205	152,818	56	76	\$ 161,400.00
40J	TW C	210	57,791	59	86	\$ 36,020.00
40J	TW C	215	5,000	22	58	\$ 11,070.00

Table 5.3-2 Summary of Airport Localized M&R Planning Cost and Quantity at Section Level

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The following **Table 5.3-3** provides a summary of the anticipated planning-level costs for Localized Preventive Maintenance and Repair and Localized Stopgap Maintenance and Repair. The following table depicts planning-level costs rounded to the nearest ten dollars.

Table 5.3-3 Summary of Localized Maintenance

Work Category	Cost
Preventive	\$-
Stopgap	\$ 1,418,690.00
Planning Level Localized M&R Needs =	\$ 1,418,690.00

Statewide Airfield Pavement Management Program



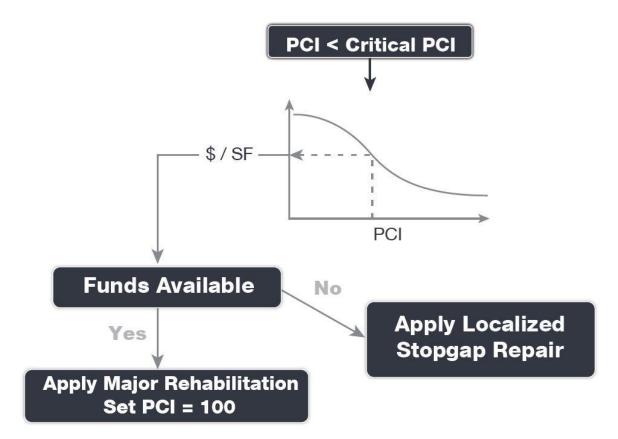
Chapter 6

Chapter 6 – Major Rehabilitation Planning

6.1 Major Rehabilitation

Major rehabilitation is recommended to correct or improve structural deficiencies and/or functional deterioration for pavement sections within a network. Often, when pavements are subject to significant changes in the aircraft fleet mix (frequency and type), major rehabilitation is required to provide a pavement section to meet the traffic demand. Major rehabilitation is recommended when a pavement section falls below the Critical PCI value that is defined during the system customization or if a pavement section has a significant observation of load-related distress. Observation of any load-related distress potentially indicates that the section may be structurally deficient or that the aircraft loads being applied to the pavement section are different than what the section was designed for. **Figures 6.1-1 and 6.1-2** depict the decision process for major rehabilitation project identification with the assumption of available funds. Should funding be unavailable for pavement sections in need of major rehabilitation, the airport may elect to apply the appropriate localized stopgap repair.

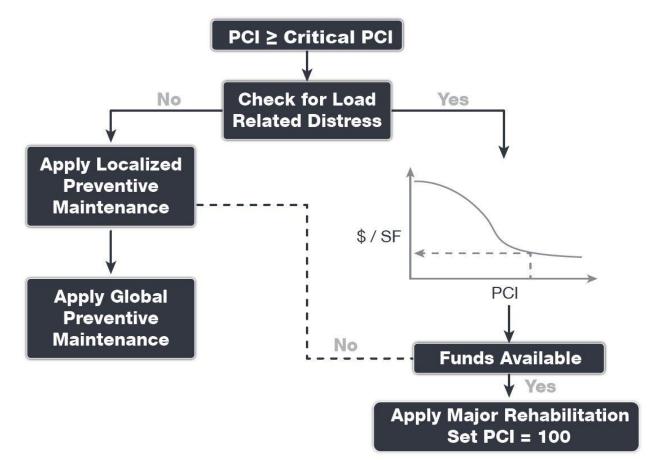
Figure 6.1-1 Major Rehabilitation Planning Decision Diagram, PCI ≤ Critical PCI





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





6.1.1 Critical PCI

For the FDOT SAPMP the development of a major rehabilitation program is based on the Critical PCI concept. The *Critical PCI* concept assumes that it is more cost-effective to maintain pavements above, rather than below their critical PCI. It is assumed that once a pavement section deteriorates to the Critical PCI value that it is more cost-effective to complete a major rehabilitation project rather than continuing to apply preventive maintenance. This method includes defining the Critical PCI and introducing major rehabilitation work types.

Identification of annual and long-range Major Rehabilitation work plans are typically based on the Critical PCI concept. The Critical PCI is defined as the PCI value at which the rate of loss (deterioration) increases with time, or the cost of applying localized maintenance and repair increases or is not effective. A Critical PCI is usually within a range of 55 and 70; the following procedure is standard approach in developing a specific Critical PCI:

- 1. Develop a pavement performance model and refine a prediction model for the pavements considered.
- 2. Select a localized maintenance and repair policy to be used in developing a work plan.
- 3. Apply the selected localized policy to the pavement sections for a range of PCI.
- 4. Compute the unit cost per area for each PCI range.
- 5. Plot the cost versus the PCI.
- 6. Determine the Critical PCI based on the point where the cost is insignificant.

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

6.1.2 FDOT Recommended Minimum Service-Level PCI

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

Branch Use	FDOT Recommended PCI	Additional Consideration
Runway	75	Aircraft Fleet Mix Changes Primary Runway
Taxiway / Taxilane	65	Aircraft Fleet Mix Changes Expected Operations
Aprons / Run-Ups / Ramps	60	Ground Service Equipment Non-Aircraft Operations (e.g. fueling)

Table 6.1.2 FDOT Recommended Minimum Service-Level PCI



6.2 Major Rehabilitation Policy

6.2.1 Major Rehabilitation Pavement Section Development

The review of the existing as-built record documentation within the participating airports' archives was used as the basis of the conceptual pavement design sections. Refinement of the pavement section layers was performed in consideration of the FAA *AC 150/ 5320-6F "Airport Pavement Design and Evaluation."* It should be noted that no subsurface geotechnical investigation, ALTA/ACSM Survey, topographic survey, utilities survey, environmental, or site specific air traffic study(s) have been utilized in the development of the design criteria. No warranty or assurance is implied in this document for final design nor construction for any airfield pavements discussed within this report. The following **Tables 6.2.1 (a) and (b)** provide details on the conceptual pavement sections developed for this study.

Major rehabilitation is divided into two policy categories as part of this program: Full-Depth Reconstruction (Reconstruction) and Intermediate-Level Major Rehabilitation (Restoration). Based on the pavement type, the general categories are defined as AC Reconstruction and AC Restoration for AC, AAC, and APC flexible pavement types and PCC Reconstruction and PCC Restoration for PCC rigid pavement types. The pavement sections have been based on the average GA Airport Type requirements; no pavement design has been performed in accordance with AC 150/5320-6F for the determined conceptual sections.

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

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

Table 6.2.1 (b) Conceptual Pavement Section for Major Rehabilitation – Rigid Portland CementConcrete

Rehabilitation Type	General Aviation (GA) Airport
PCC Restoration Restoration of PCC pavement with a combination of crack sealing, joint seal replacement, and replacement of 25% of slab panels. PCI = 41 to 65	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (6") P-211 Base (if needed, typical) (6") P-501 Rigid PCC (10") *Select Slabs (25%) **Crack Seal and Limited Patching
PCC Reconstruction Full-depth rigid pavement section reconstruction. PCI = 40 or less	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (6") P-211 Base (6") P-501 Rigid PCC (10")

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

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

6.2.2 Major Rehabilitation Planning-Level Unit Costs

Planning-level opinion of probable construction unit costs developed for this System Update was based on archived bid tabulations and records from airfield pavement projects provided by participating airports. A review of cost trends and cost factors have been incorporated to assist airports in planning for project budgets. Neither FDOT nor the Consultant Team has control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable construction costs

provided herein are based on the information known to FDOT at this time and represent only the Consultant Team's judgment as a design professional familiar with the construction industry. This report cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable construction costs.

Table 6.2.2 General Aviation Major Rehabilitation Planning-Level Unit Cost	st by Pavement Ty	y p e
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Rehabilitation Type	PCI Range	Flexible Asphalt Concrete Cost Per SF		Rigid Portland Cement Concrete Cost per SF		
Restoration	41 to 65	\$	7.00	\$	10.00	
Reconstruction	0 to 40	\$	9.00	\$	15.00	

Planning-level opinion of probable construction unit costs consider factors for non-pavement improvements, QA/QC testing, and administrative costs.

6.3 Major Rehabilitation Needs

The objective of the major pavement rehabilitation needs analysis is to provide planning-level projects within an airport's airfield pavement network. Major rehabilitation activities are recommended when a pavement section has deteriorated below the Critical PCI value, a point at which localized maintenance and repair activities may not be the most cost-effective solution. In addition, major rehabilitation is also recommended when the Section PCI is at or above the Critical PCI but the section has significant load-related PCI distresses. Identification of rehabilitation needs is done at the Airfield Pavement Network Definition's section level. This however does not limit the airport from further refining limits of project planning areas.

Major rehabilitation is identified within the FDOT SAPMP as major construction activity that would result in an improvement or resetting of the pavement section's PCI to a value of 100. Major rehabilitation recommendations (AC Restoration, AC Reconstruction, PCC Restoration, and PCC Reconstruction) should be considered as planning-level only. Additional design-level investigation in accordance to the FAA Advisory Circulars will be required. Recommendations identified within this planning document do not imply final design.

6.3.1 10-Year Unconstrained Budget Major Rehabilitation Needs

An unconstrained budget (unlimited budget) is performed for a 10-year duration to identify pavement rehabilitation needs based on current or forecasted PCI values deteriorating below the Critical PCI. FDOT recognizes airports are constrained by budgets and does not intend to convey an unrealistic approach of addressing pavement rehabilitation. The intent of the 10-Year Major Rehabilitation Needs analysis is to identify pavements that will warrant rehabilitation. It is highly recommended that airport staff utilize this information in support of the development of a practical Capital Improvement Program based on priorities, further design/project-level investigation, and budgetary constraints. The following **Table 6.3.1** summarizes all identified section-level major rehabilitation needs forecasted for the next 10-year period. It should be noted that the following table depicts planning-level costs and have been rounded for planning purposes.



Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	40J	AP	4105	PCC	339,332	37	PCC Reconstruction	\$ 5,091,000.00
2018	40J	RW 12-30	6105	PCC	10,250	34	PCC Reconstruction	\$ 154,000.00
2018	40J	RW 12-30	6110	PCC	45,034	45	PCC Restoration	\$ 558,000.00
2018	40J	RW 12-30	6115	AAC	434,400	62	AC Restoration	\$ 3,041,000.00
2018	40J	RW 12-30	6125	PCC	32,882	45	PCC Restoration	\$ 407,000.00
2018	40J	RW 12-30	6130	PCC	4,875	33	PCC Reconstruction	\$ 74,000.00
2018	40J	RW 18-36	6305	PCC	10,996	51	PCC Restoration	\$ 110,000.00
2018	40J	RW 18-36	6310	PCC	35,176	53	PCC Restoration	\$ 352,000.00
2018	40J	RW 18-36	6325	PCC	21,407	53	PCC Restoration	\$ 215,000.00
2018	40J	TW A & B	105	AAC	131,781	56	AC Restoration	\$ 923,000.00
2018	40J	TW A & B	110	AAC	111,959	57	AC Restoration	\$ 784,000.00
2018	40J	TW C	205	AAC	152,818	54	AC Restoration	\$ 1,070,000.00
2018	40J	TW C	210	AC	57,791	57	AC Restoration	\$ 405,000.00
2018	40J	TW C	215	AC	5,000	19	AC Reconstruction	\$ 46,000.00

Table 6.3.1 10-Year Major Rehabilitation Needs

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

The following **Figure 6.3.1-1** summarizes the section-level major rehabilitation needs for a 10year period between 2018 and 2027. **Figure 6.3.1-2** provides an inset view of Airfield Pavement Major Rehabilitation Exhibit, a large format exhibit is located in **Appendix C Technical Exhibits**. The exhibit graphically depicts the Major Rehabilitation Needs with rounded costs.

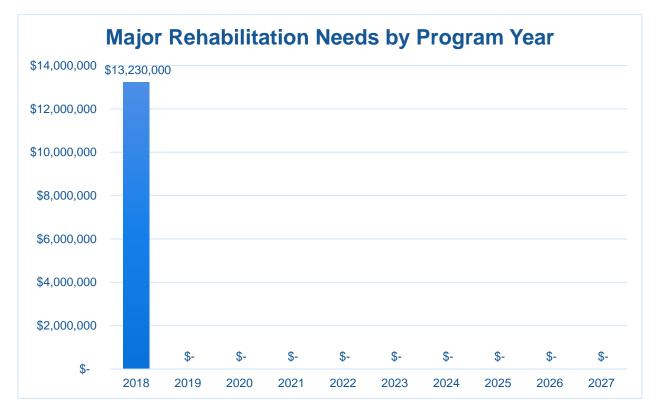


Figure 6.3.1-1 10-Year Major Rehabilitation Needs by Program Year



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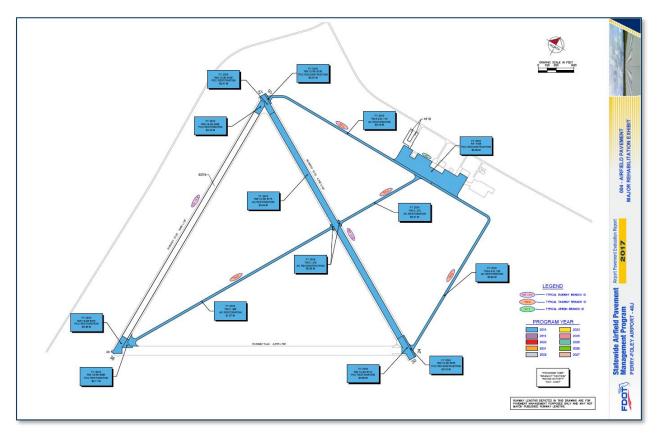


Figure 6.3.1-2 10-Year Major Rehabilitation Needs by Program Year Exhibit

Statewide Airfield Pavement Management Program



Chapter 7

Chapter 7 – Conclusion

7.1 Recommendations

7.1.1 Continued PCI Survey Inspections

It is recommended that the airport continue to perform regularly scheduled PCI Survey inspections in accordance with the ASTM D5340-12 (or latest edition) to monitor the condition of the airfield pavement facilities.

A high priority should be considered for continuous maintenance record keeping and reinspection of all the airport's maintained pavement facilities to ensure continued safe aircraft operations. A series of scheduled periodic inspections must be carried out for an effective maintenance program. Re-inspection of pavements should be scheduled in a timely manner to ensure that all areas, particularly those that may not come under day-to-day observation, are thoroughly evaluated and reported.

7.1.2 Localized Maintenance and Repair

While deterioration of the pavements due to usage and exposure to the environment cannot be completely prevented, applying timely and effective maintenance efforts can slow the anticipated rate of deterioration. Lack of adequate and timely maintenance is the significant factor in pavement deterioration.

It is recommended that airport sponsors coordinate with their respective Airport Maintenance staff and Airport Engineer when developing project-level maintenance and repair efforts.

7.1.3 Major Rehabilitation

Chapter 6 – Major Rehabilitation Planning identified major pavement rehabilitation project needs from 2018-2027. The identification of the rehabilitation needs was performed at the section level for manageable project areas with the assumption of an unconstrained budget scenario. Given the uncertainty in the airport-specific budget information and prioritization goals, the unconstrained budget scenario was performed to evaluate the worst-case scenario and identify all the inspected pavements' needs in a 10-year period. Certainly, it is understood that most airports are faced with constrained budgets; further evaluation of projects based on prioritization, operational criticality, funding availability, and practicality is recommended.

7.1.4 Pavement Management System

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

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

7.2 Supporting Documents

001 – Airfield Pavement Network Definition Exhibit

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

002 – Airfield Pavement System Inventory Exhibit

The Airfield Pavement System Inventory Exhibit in is located in **Appendix C Technical Exhibits**. The exhibit depicts any recent and/or anticipated construction activity within the airfield pavement facilities reported by airport staff. The exhibit is intended to schematically identify the pavement limits of works and general work description. The information reported on the *Airport Response Form* provided by each participating airport was used as the basis of the changes; furthermore, changes are confirmed at the airport with airport staff during the in-brief and debrief meeting.

003 – Airfield Pavement Condition Index Exhibit

The Airfield Pavement Condition Index Exhibit is located in **Appendix C Technical Exhibits**. The exhibit is a visual summary of the latest conditions calculated from the results of the PCI Survey performed at the airport. The analysis of the distresses surveyed in accordance with the ASTM D5340-12 (referenced in **Appendix E Inspection Distress Details**) were analyzed using PAVER[™] software to determine PCI values. The PCI values are identified in the exhibit and graphically represented using the standard ASTM D5340-12 colors for condition rating categories.

004 – Airfield Pavement Major Rehabilitation Exhibit

The Airfield Pavement Major Rehabilitation Exhibit is located in **Appendix C Technical Exhibits**. The exhibit has been prepared based on the section condition analysis, pavement condition forecasts, and major rehabilitation needs analysis. The exhibit graphically depicts the inventory with the associated rehabilitation type activity, program year, and the planning-level costs. The area limits, rehabilitation type, and planning-level costs should not be considered a design-level recommendation. A tabulation of the 10-Year Major Rehabilitation is located in **Appendix B Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation**.

Inspection Photograph Documentation

Representative field conditions from the PCI Survey are documented with digital photographs located in **Appendix D Inspection Photograph Documentation.** Select photographs are provided with limited caption on the distresses observed – the Appendix does not contain photographs for every sample unit.



7.3 Conclusion

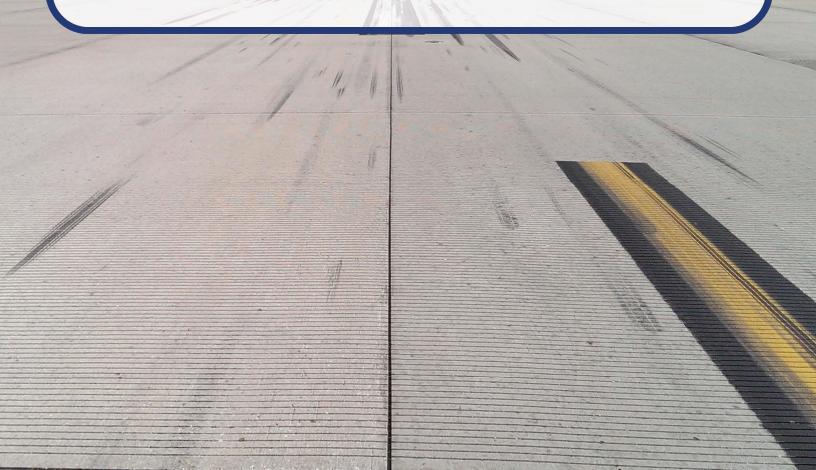
The FDOT SAPMP Update Phase 1 2016-2017 was completed for the airport on behalf of the FDOT ASO in accordance with the Advisory Circulars 150/5380-7B "Airport Pavement Management Program (PMP)" and 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements." FDOT's implementation of the SAPMP has assisted public airports with this requirement in performing PCI survey inspections and analysis in accordance with the ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys."

Statewide Airfield Pavement Management Program



Appendix A

Airfield Pavement Analysis Tables





Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
40J	APRON	AP	APRON	4105	1200	300	339,332	PCC	1/1/1945
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6105	850	25	10,250	PCC	1/1/1945
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6110	425	100	45,034	PCC	1/1/1945
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6115	4325	100	434,400	AAC	1/1/1997
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6125	345	100	32,882	PCC	1/1/1945
40J	RUNWAY 12-30	RW 12-30	RUNWAY	6130	200	25	4,875	PCC	1/1/1945
40J	RUNWAY 18-36	RW 18-36	RUNWAY	6305	425	25	10,996	PCC	1/1/1945
40J	RUNWAY 18-36	RW 18-36	RUNWAY	6310	250	100	35,176	PCC	1/1/1945
40J	RUNWAY 18-36	RW 18-36	RUNWAY	6315	4370	100	438,000	AC	1/1/2013
40J	RUNWAY 18-36	RW 18-36	RUNWAY	6325	260	100	21,407	PCC	1/1/1945
40J	T-HANGAR TAXILANE	T-HANGAR	TAXILANE	4110	600	50	30,807	AC	7/1/2009
40J	TAXIWAY A & B	TW A & B	TAXIWAY	105	3700	35	131,781	AAC	1/1/1995
40J	TAXIWAY A & B	TW A & B	TAXIWAY	110	3200	35	111,959	AAC	1/1/1995
40J	TAXIWAY C	TW C	TAXIWAY	205	4200	35	152,818	AAC	1/1/1995
40J	TAXIWAY C	TW C	TAXIWAY	210	1500	35	57,791	AC	1/1/1995
40J	TAXIWAY C	TW C	TAXIWAY	215	200	25	5,000	AC	1/1/1945

Table A-1 Pavement System Inventory Details



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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
40J	RUNWAY 12-30	RUNWAY	6105	10,250	35	Very Poor
40J	RUNWAY 12-30	RUNWAY	6110	45,034	46	Poor
40J	RUNWAY 12-30	RUNWAY	6115	434,400	63	Fair
40J	RUNWAY 12-30	RUNWAY	6125	32,882	46	Poor
40J	RUNWAY 12-30	RUNWAY	6130	4,875	34	Very Poor
40J	RUNWAY 18-36	RUNWAY	6305	10,996	52	Poor
40J	RUNWAY 18-36	RUNWAY	6310	35,176	54	Poor
40J	RUNWAY 18-36	RUNWAY	6315	438,000	89	Good
40J	RUNWAY 18-36	RUNWAY	6325	21,407	54	Poor
40J	TAXIWAY A & B	TAXIWAY	105	131,781	58	Fair
40J	TAXIWAY A & B	TAXIWAY	110	111,959	59	Fair
40J	TAXIWAY C	TAXIWAY	205	152,818	56	Fair
40J	TAXIWAY C	TAXIWAY	210	57,791	59	Fair
40J	TAXIWAY C	TAXIWAY	215	5,000	22	Serious
40J	T-HANGAR TAXILANE	TAXILANE	4110	30,807	90	Good
40J	APRON	APRON	4105	339,332	38	Very Poor

Airport Pavement 2017 Evaluation Report



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Table A-3 Forecasted PCI 2018-2027

Network ID	Dranak ID	Continu ID						Forecas	sted PC	I			
Network ID	Branch ID	Section ID	Last PCI	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
40J	AP	4105	38	37	37	36	36	35	34	34	33	32	31
40J	RW 12-30	6105	35	34	33	32	31	30	30	29	28	27	26
40J	RW 12-30	6110	46	45	44	43	42	41	41	40	39	38	37
40J	RW 12-30	6115	63	62	61	61	60	60	60	60	60	60	60
40J	RW 12-30	6125	46	45	44	43	42	41	41	40	39	38	37
40J	RW 12-30	6130	34	33	32	31	30	29	29	28	27	26	25
40J	RW 18-36	6305	52	51	50	49	48	47	47	46	45	44	43
40J	RW 18-36	6310	54	53	52	51	50	49	49	48	47	46	45
40J	RW 18-36	6315	89	87	85	84	82	81	79	77	76	74	72
40J	RW 18-36	6325	54	53	52	51	50	49	49	48	47	46	45
40J	T-HANGAR	4110	90	87	85	82	80	78	76	74	73	71	70
40J	TW A & B	105	58	56	54	53	51	49	48	47	46	45	44
40J	TW A & B	110	59	57	55	54	52	50	49	47	46	45	44
40J	TW C	205	56	54	52	51	49	48	46	45	45	44	44
40J	TW C	210	59	57	56	55	54	52	51	49	47	46	44
40J	TW C	215	22	19	16	13	10	8	5	2	0	0	0

6/29/2017	1		Wo	ork History	y Report			Page 1 of 4
		Pavem	ent Database:	-				
	DEDDV E				N	G 4	4105	
Network: L.C.D.: 1/1/1		OLEY AIR se: APRON	Branch: AP Rank: P	APRO Length: 1,200		Section:	4105 00 (Ft) True Area:	Surface: PCC 339, 332, 00 (SqFt)
Work Date	Work		Description	Cost	Thickness	Major	Comr	
1/1/1945	Code IMPORT ED			0.00	(in) 0.00	M&R	ESTIMATE 1945 PC	
Network:	PERRY-F	OLEY AIR	Branch: RW 12	2-30 RUNV	VAY 12-30	Section:	6105	Surface: PCC
L.C.D.: 1/1/1		se: RUNWAY	Rank: P	Length: 850	. ,		00 (Ft) True Area:	10,250.00 (SqFt)
Work Date	Work Code		Description	Cost	Thickness (in)	Major M&R	Comr	
1/1/1945	IMPORT ED	BUILT		0.00	0.00		ESTIMTE 1945 PCC	C PAVEMENT
Network:	PERRY-F	OLEY AIR	Branch: RW 12	2-30 RUNV	VAY 12-30	Section:	6110	Surface: PCC
L.C.D.: 1/1/1	945 U	se: RUNWAY	Rank: P	Length: 425	.00 (Ft) Wi	dth: 100.	00 (Ft) True Area:	45,034.00 (SqFt)
Work Date	Work Code	Work I	Description	Cost	Thickness (in)	Major M&R	Comr	nents
1/1/1945	IMPORT ED	BUILT		0.00	0.00		ESTIMATE 1945 PC	CC PAVEMENT
				2.20 5454		a	~11.0	
Network: L.C.D.: 1/1/1		OLEY AIR se: RUNWAY	Branch: RW 12 Rank: P	2-30 RUNV Length: 4,325	VAY 12-30	Section:	6115 00 (Ft) True Area:	Surface: AAC 434 400 00 (SoFt)
Work Date	Work		Description	Cost	Thickness	Major	Comr	
1/1/1997	Code IMPORT	OVERLAY		0.00	(in) 2.00	M&R	1997 2" AC OVERL	
1/1/1940	ED IMPORT			0.00	0.00		1940s VINTAGE AG	T DA VEMENT
1/1/1940	ED	BUILI		0.00	0.00		1940s VIIVIAOE AG	
Notwork	PERRV_E	OLEY AIR	Branch: RW 12		VAY 12-30	Section:	6125	Surface: PCC
L.C.D.: 1/1/1		se: RUNWAY					00 (Ft) True Area:	32,882.00 (SqFt)
Work Date	Work	Work I	Description	Cost	Thickness	Major	Comr	
1/1/1945	Code IMPORT			0.00	(in) 0.00	M&R ✓	ESTIMATE 1945 PC	
	ED							
Network:	PERRY-F	OLEY AIR	Branch: RW 12	2-30 RUNV	VAY 12-30	Section:	6130	Surface: PCC
L.C.D.: 1/1/1	945 U	se: RUNWAY	Rank: P	Length: 200	.00 (Ft) Wi	idth: 25.	00 (Ft) True Area:	4,875.00 (SqFt)
Work Date	Work Code	Work I	Description	Cost	Thickness (in)	Major M&R	Comr	nents
1/1/1945	IMPORT ED	BUILT		0.00	0.00		ESTIMATE 1945 PC	CC PAVEMENT
Network:	PERRY-F	OLEY AIR	Branch: RW 1	8-36 RUNV	VAY 18-36	Section:	6305	Surface: PCC
L.C.D.: 1/1/1	945 Us	se: RUNWAY					00 (Ft) True Area:	10,996.00 (SqFt)
Work Date	Work Code	Work I	Description	Cost	Thickness (in)	Major M&R	Comr	nents
1/1/1945	IMPORT ED	BUILT		0.00	0.00		ESTIMATE 1945 PC	CC PAVEMENT

6/29/2017	1	Woi Pavement Database:	rk History <i>FDOT</i>	y Report			Page 2 of 4
			26 DID.		a d	(210	
		OLEY AIR Branch: RW 18		VAY 18-36	Section:		Surface: PCC
L.C.D.: 1/1/1	945 Us Work	se: RUNWAY Rank: P L	ength: 250	.00 (Ft) Wie Thickness	Major	00 (Ft) True Area:	35,176.00 (SqFt)
Work Date	Code	Work Description	Cost	(in)	M&R	Comn	nents
1/1/1945	IMPORT ED	BUILT	0.00	0.00		ESTIMATE 1945 PC	CC PAVEMENT
Network:	PERRY-F	OLEY AIR Branch: RW 18	-36 RUNW	VAY 18-36	Section:		Surface: AC
L.C.D.: 1/1/2		se: RUNWAY Rank: P L	ength: 4,370	. ,		00 (Ft) True Area:	438,000.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	nents
1/1/2013		New Construction - AC	0.00	0.00			
1/1/1997	IMPORT ED	OVERLAY	0.00	2.00		1997 2" P401 AC OV	/ERLAY
1/1/1940	IMPORT	BUILT	0.00	0.00		1940s VINTAGE AG	C PAVEMENT
	ED						
Network:	PERRY-F	OLEY AIR Branch: RW 18	-36 RUNW	VAY 18-36	Section:	6325	Surface: PCC
L.C.D.: 1/1/1	945 Us	se: RUNWAY Rank: P L	ength: 260	.00 (Ft) Wie	dth: 100.	00 (Ft) True Area:	21,407.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comn	nents
1/1/1945	IMPORT ED	BUILT	0.00	0.00		ESTIMATE 1945 PC	CC PAVEMENT
Network:	PERRY-F	OLEY AIR Branch: T-HAN	GAR T-HAN	NGAR TAX	Section:	4110	Surface: AC
L.C.D.: 7/1/2	009 Us	e: TAXILAN Rank: P L	ength: 600	.00 (Ft) Wie	dth: 50.	00 (Ft) True Area:	30,807.00 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comm	nents
7/1/2009	NU-IN	New Construction - Initial	0.00	0.00			
Notwork	DEDDV E	OLEY AIR Branch: TW A	P TAVI	WAY A & B	Section:	105	Surface: AAC
L.C.D.: 1/1/1			ength: 3,700			00 (Ft) True Area:	131,781.00 (SqFt)
Work Date	Work	Work Description	Cost	Thickness	Major	Comn	
1/1/1995	Code ML-OV	MILL and OVERLAY	0.00	(in) 2.00	M&R	1995 2" P401 SURFA	
1/1/1995	IMPORT		0.00	0.00		1995 2 P401 SURFA	
	ED				LI`		
Notreal	DEDDVE	OLEY AIR Branch: TW A	& B TAVI	WAY A & B	Section:	110	Surface: AAC
Network: L.C.D.: 1/1/1			ength: 3,200			00 (Ft) True Area:	Surface: AAC 111,959.00 (SqFt)
Work Date	Work	Work Description	Cost	Thickness	Major	Comn	
	Code ML-OV	*		(in)	M&R	1995 2" P401 SURFA	
1/1/1995 1/1/1940	ML-OV IMPORT	MILL and OVERLAY BUILT	0.00 0.00	2.00 0.00		1995 2" P401 SURFA	
	ED						

6/29/2017	6/29/2017 Work History Report Page 3 of 4 Pavement Database: FDOT									
		OLEY AIR Branch: TW C se: TAXIWAY Rank: P I		WAY C .00 (Ft) Wi d	Section: dth: 35.0	205 00 (Ft) True Area:	Surface: AAC 152,818.00 (SqFt)			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comn	nents			
1/1/1995 1/1/1940	ML-OV IMPORT ED	MILL and OVERLAY BUILT	0.00			1995 2" P401 AC SU 1940s VINTAGE SU				
		OLEY AIR Branch: TW C se: TAXIWAY Rank: P I		WAY C .00 (Ft) Wi d	Section: dth: 35.0	210 00 (Ft) True Area:	Surface: AC 57,791.00 (SqFt)			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comn	nents			
1/1/1995	IMPORT ED	BUILT	0.00	2.00		1995 2" P401 AC SU RECYCLED BASE	RFACE ON 6"			
Network: L.C.D.: 1/1/1		OLEY AIR Branch: TW C se: TAXIWAY Rank: P I		WAY C .00 (Ft) Wi d	Section: dth: 25.0	215 00 (Ft) True Area:	Surface: AC 5,000.00 (SqFt)			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comn				
1/1/1945	NU-IN	New Construction - Initial	0.00	0.00		EST 1945 AC PAVE	MENT			

6/29/2017

Work History Report

Pavement Database: FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	14	1,826,701.00	0.14	0.52
MILL and OVERLAY	3	396,558.00	2.00	0.00
New Construction - AC	1	438,000.00	0.00	0.00
New Construction - Initial	2	35,807.00	0.00	0.00
OVERLAY	2	872,400.00	2.00	0.00

6/29/2017	6/29/2017 Branch Condition Report Page 1 of Pavement Database: FDOT								
Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI	
AP	1	1,200.00	300.00	339,332.00	APRON	38.00	0.00	38.00	
RW 12-30	5	6,145.00	70.00	527,441.00	RUNWAY	44.80	10.46	59.68	
RW 18-36	4	5,305.00	81.25	505,579.00	RUNWAY	62.25	15.47	84.28	
T-HANGAR	1	600.00	50.00	30,807.00	TAXILANE	90.00	0.00	90.00	
TW A & B	2	6,900.00	35.00	243,740.00	TAXIWAY	58.50	0.50	58.46	
TW C	3	5,900.00	31.67	215,609.00	TAXIWAY	45.67	16.78	56.02	

6/29/2017 Branch Condition Report Page 2 of 2 Pavement Database: FDOT									
Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI				
APRON	1	339332.000103726	38.00	0.00	38.00				
RUNWAY	9	1033020.0000491	52.56	15.56	71.72				
TAXILANE	1	30807	90.00	0.00	90.00				
TAXIWAY	5	459349.000140452	50.80	14.44	57.31				
ALL	16	1862508.00029328	53.44	17.39	62.32				

6/29/2017		Section	on Condition Report							of 2	
Pavement Data	ıbase: FDOT		NetworkId: 40J								
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspec tion		
AP	4105	1/1/1945	PCC	APRON	Р	0	339,332.00	2/8/2017	72	38	
RW 12-30	6105	1/1/1945	PCC	RUNWAY	Р	0	10,250.00	2/8/2017	72	35	
RW 12-30	6110	1/1/1945	PCC	RUNWAY	Р	0	45,034.00	2/8/2017	72	46	
RW 12-30	6115	1/1/1997	AAC	RUNWAY	Р	0	434,400.00	2/8/2017	20	63	
RW 12-30	6125	1/1/1945	PCC	RUNWAY	Р	0	32,882.00	2/8/2017	72	46	
RW 12-30	6130	1/1/1945	PCC	RUNWAY	Р	0	4,875.00	2/8/2017	72	34	
RW 18-36	6305	1/1/1945	PCC	RUNWAY	Р	0	10,996.00	2/8/2017	72	52	
RW 18-36	6310	1/1/1945	PCC	RUNWAY	Р	0	35,176.00	2/8/2017	72	54	
RW 18-36	6315	1/1/2013	AC	RUNWAY	Р	0	438,000.00	2/8/2017	4	89	
RW 18-36	6325	1/1/1945	PCC	RUNWAY	Р	0	21,407.00	2/8/2017	72	54	
T-HANGAR	4110	7/1/2009	AC	TAXILANE	Р	0	30,807.00	2/8/2017	8	90	
TW A & B	105	1/1/1995	AAC	TAXIWAY	Р	0	131,781.00	2/8/2017	22	58	
TW A & B	110	1/1/1995	AAC	TAXIWAY	Р	0	111,959.00	2/8/2017	22	59	
TW C	205	1/1/1995	AAC	TAXIWAY	Р	0	152,818.00	2/8/2017	22	56	
TW C	210	1/1/1995	AC	TAXIWAY	Р	0	57,791.00	2/8/2017	22	59	
TW C	215	1/1/1945	AC	TAXIWAY	Р	0	5,000.00	2/8/2017	72	22	

6/29/2017 Section Condition Report (Summary) Page 2 of 2 Pavement Database: FDOT								
Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI		
03-05	4	438,000.00	1	89.00	0.00	89.00		
06-10	8	30,807.00	1	90.00	0.00	90.00		
16-20	20	434,400.00	1	63.00	0.00	63.00		
21-25	22	454,349.00	4	58.00	1.22	57.70		
ALL	48	1,862,508.00	16	53.44	17.39	62.32		
Over 50	72	504,952.00	9	42.33	10.26	41.07		

Statewide Airfield Pavement Management Program



Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation

Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
40J	AP	4105	63	LINEAR CR	Medium	302.73	Slabs	28.8%	FDOT - CRACK SEALING - PCC	5676.18	Ft	\$ 4.25	\$ 24,130.00
40J	AP	4105	63	LINEAR CR	High	15.14	Slabs	1.4%	FDOT - PATCHING - PCC PARTIAL DEPTH	931.08	SqFt	\$ 72.00	\$ 67,050.00
40J	AP	4105	65	JT SEAL DMG	High	340.58	Slabs	32.4%	FDOT - JOINT SEAL - PCC	13500	Ft	\$ 2.75	\$ 37,130.00
40J	AP	4105	66	SMALL PATCH	Medium	22.71	Slabs	2.2%	FDOT - PATCHING - PCC PARTIAL DEPTH	61.35	SqFt	\$ 72.00	\$ 4,400.00
40J	AP	4105	66	SMALL PATCH	High	45.41	Slabs	4.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	122.71	SqFt	\$ 72.00	\$ 8,800.00
40J	AP	4105	67	LARGE PATCH	High	7.57	Slabs	0.7%	FDOT - PATCHING - PCC FULL DEPTH	466.08	SqFt	\$ 100.00	\$ 46,560.00
40J	AP	4105	70	SCALING	Medium	7.57	Slabs	0.7%	FDOT - PATCHING - PCC PARTIAL DEPTH	387.5	SqFt	\$ 72.00	\$ 27,940.00
40J	AP	4105	71	FAULTING	Medium	7.57	Slabs	0.7%	FDOT - GRINDING (LOCALIZED)	94.49	Ft	\$ 2.00	\$ 190.00
40J	AP	4105	72	SHAT. SLAB	Low	83.25	Slabs	7.9%	FDOT - CRACK SEALING - PCC	3122.05	Ft	\$ 4.25	\$ 13,270.00
40J	AP	4105	72	SHAT. SLAB	Medium	52.98	Slabs	5.0%	FDOT - SLAB REPLACEMENT - PCC	16555.97	SqFt	\$ 30.00	\$ 496,680.00
40J	AP	4105	74	JOINT SPALL	Low	37.84	Slabs	3.6%	FDOT - CRACK SEALING - PCC	62.01	Ft	\$ 4.25	\$ 270.00
40J	AP	4105	74	JOINT SPALL	Medium	15.14	Slabs	1.4%	FDOT - PATCHING - PCC PARTIAL DEPTH	97.95	SqFt	\$ 72.00	\$ 7,040.00
40J	AP	4105	75	CORNER SPALL	Low	30.27	Slabs	2.9%	FDOT - CRACK SEALING - PCC	49.54	Ft	\$ 4.25	\$ 220.00
40J	AP	4105	75	CORNER SPALL	Medium	15.14	Slabs	1.4%	FDOT - PATCHING - PCC PARTIAL DEPTH	40.9	SqFt	\$ 72.00	\$ 2,940.00
40J	AP	4105	75	CORNER SPALL	High	15.14	Slabs	1.4%	FDOT - PATCHING - PCC PARTIAL DEPTH	40.9	SqFt	\$ 72.00	\$ 2,940.00
40J	RW 12-30	6105	63	LINEAR CR	Medium	55.22	Slabs	38.9%	FDOT - CRACK SEALING - PCC	676.51	Ft	\$ 4.25	\$ 2,880.00
40J	RW 12-30	6105	65	JT SEAL DMG	High	142	Slabs	100.0%	FDOT - JOINT SEAL - PCC	2595.8	Ft	\$ 2.75	\$ 7,140.00
40J	RW 12-30	6105	66	SMALL PATCH	High	7.89	Slabs	5.6%	FDOT - PATCHING - PCC PARTIAL DEPTH	21.53	SqFt	\$ 72.00	\$ 1,530.00
40J	RW 12-30	6105	75	CORNER SPALL	Low	7.89	Slabs	5.6%	FDOT - CRACK SEALING - PCC	12.8	Ft	\$ 4.25	\$ 60.00
40J	RW 12-30	6110	63	LINEAR CR	Medium	28	Slabs	20.6%	FDOT - CRACK SEALING - PCC	524.93	Ft	\$ 4.25	\$ 2,240.00
40J	RW 12-30	6110	65	JT SEAL DMG	High	136	Slabs	100.0%	FDOT - JOINT SEAL - PCC	4575.13	Ft	\$ 2.75	\$ 12,590.00
40J	RW 12-30	6110	66	SMALL PATCH	Medium	16	Slabs	11.8%	FDOT - PATCHING - PCC PARTIAL DEPTH	43.06	SqFt	\$ 72.00	\$ 3,110.00
40J	RW 12-30	6110	66	SMALL PATCH	High	4	Slabs	2.9%	FDOT - PATCHING - PCC PARTIAL DEPTH	10.76	SqFt	\$ 72.00	\$ 780.00
40J	RW 12-30	6110	74	JOINT SPALL	Low	8	Slabs	5.9%	FDOT - CRACK SEALING - PCC	13.12	Ft	\$ 4.25	\$ 60.00
40J	RW 12-30	6110	75	CORNER SPALL	Low	4	Slabs	2.9%	FDOT - CRACK SEALING - PCC	6.56	Ft	\$ 4.25	\$ 30.00
40J	RW 12-30	6115	48	L & T CR	Medium	173.75	Ft	0.0%	FDOT - CRACK SEALING - AC	173.88	Ft	\$ 3.00	\$ 530.00
40J	RW 12-30	6115	52	RAVELING	Low	421676.94	SqFt	97.1%	FDOT - SURFACE SEAL	421677.3	SqFt	\$ 0.55	\$ 231,930.00
40J	RW 12-30	6115	52	RAVELING	Medium	12723.05	SqFt	2.9%	FDOT - PATCHING - AC PARTIAL DEPTH	12722.94	SqFt	\$ 3.00	\$ 38,170.00
40J	RW 12-30	6125	62	CORNER BREAK	Low	2.34	Slabs	2.1%	FDOT - CRACK SEALING - PCC	19.36	Ft	\$ 4.25	\$ 90.00
40J	RW 12-30	6125	63	LINEAR CR	Medium	14.04	Slabs	12.8%	FDOT - CRACK SEALING - PCC	263.45	Ft	\$ 4.25	\$ 1,120.00
40J	RW 12-30	6125	65	JT SEAL DMG	High	110	Slabs	100.0%	FDOT - JOINT SEAL - PCC	3694.88	Ft	\$ 2.75	\$ 10,170.00
40J	RW 12-30	6125	66	SMALL PATCH	Medium	4.68	Slabs	4.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	12.92	SqFt	\$ 72.00	\$ 910.00
40J	RW 12-30	6125	66	SMALL PATCH	High	4.68	Slabs	4.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	12.92	SqFt	\$ 72.00	\$ 910.00
40J	RW 12-30	6125	72	SHAT. SLAB	Low	2.34	Slabs	2.1%	FDOT - CRACK SEALING - PCC	87.93	Ft	\$ 4.25	\$ 380.00
40J	RW 12-30	6125	74	JOINT SPALL	Low	7.02	Slabs	6.4%	FDOT - CRACK SEALING - PCC	11.48	Ft	\$ 4.25	\$ 50.00
40J	RW 12-30	6130	62	CORNER BREAK	Low	1.62	Slabs	6.3%	FDOT - CRACK SEALING - PCC	13.45	Ft	\$ 4.25	\$ 60.00
40J	RW 12-30	6130	63	LINEAR CR	Medium	6.5	Slabs	25.0%	FDOT - CRACK SEALING - PCC	89.24	Ft	\$ 4.25	\$ 380.00
40J	RW 12-30	6130	65	JT SEAL DMG	Medium	26	Slabs	100.0%	FDOT - JOINT SEAL - PCC	508.2	Ft	\$ 2.75	\$ 1,400.00

Table B-1 Localized Maintenance and Repair Needs based on Current Condition



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Statewide Airfield Pavement	Airport Pavement	9
Management Program	Evaluation Report	-

Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	Work Cost
40J	RW 12-30	6130	66	SMALL PATCH	Medium	1.62	Slabs	6.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	4.31	SqFt	\$ 72.00	\$ 320.00
40J	RW 12-30	6130	74	JOINT SPALL	Low	1.62	Slabs	6.3%	FDOT - CRACK SEALING - PCC	2.62	Ft	\$ 4.25	\$ 20.00
40J	RW 12-30	6130	75	CORNER SPALL	Low	1.62	Slabs	6.3%	FDOT - CRACK SEALING - PCC	2.62	Ft	\$ 4.25	\$ 20.00
40J	RW 18-36	6305	63	LINEAR CR	Medium	2.27	Slabs	6.7%	FDOT - CRACK SEALING - PCC	42.65	Ft	\$ 4.25	\$ 190.00
40J	RW 18-36	6305	66	SMALL PATCH	High	4.53	Slabs	13.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	11.84	SqFt	\$ 72.00	\$ 880.00
40J	RW 18-36	6310	62	CORNER BREAK	Low	1.86	Slabs	2.3%	FDOT - CRACK SEALING - PCC	15.42	Ft	\$ 4.25	\$ 70.00
40J	RW 18-36	6310	66	SMALL PATCH	Medium	1.86	Slabs	2.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	5.38	SqFt	\$ 72.00	\$ 370.00
40J	RW 18-36	6310	66	SMALL PATCH	High	7.44	Slabs	9.3%	FDOT - PATCHING - PCC PARTIAL DEPTH	20.45	SqFt	\$ 72.00	\$ 1,450.00
40J	RW 18-36	6310	71	FAULTING	Medium	1.86	Slabs	2.3%	FDOT - GRINDING (LOCALIZED)	23.29	Ft	\$ 2.00	\$ 50.00
40J	RW 18-36	6310	74	JOINT SPALL	Low	1.86	Slabs	2.3%	FDOT - CRACK SEALING - PCC	2.95	Ft	\$ 4.25	\$ 20.00
40J	RW 18-36	6325	63	LINEAR CR	Medium	13.83	Slabs	16.7%	FDOT - CRACK SEALING - PCC	259.51	Ft	\$ 4.25	\$ 1,110.00
40J	RW 18-36	6325	65	JT SEAL DMG	High	83	Slabs	100.0%	FDOT - JOINT SEAL - PCC	2759.84	Ft	\$ 2.75	\$ 7,590.00
40J	RW 18-36	6325	74	JOINT SPALL	Low	3.46	Slabs	4.2%	FDOT - CRACK SEALING - PCC	5.58	Ft	\$ 4.25	\$ 30.00
40J	TW A & B	105	45	DEPRESSION	Low	278.57	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	349.83	SqFt	\$ 6.00	\$ 2,100.00
40J	TW A & B	105	48	L & T CR	Medium	444.29	Ft	0.3%	FDOT - CRACK SEALING - AC	444.23	Ft	\$ 3.00	\$ 1,340.00
40J	TW A & B	105	52	RAVELING	Low	131118.31	SqFt	99.5%	FDOT - SURFACE SEAL	131118.4	SqFt	\$ 0.55	\$ 72,120.00
40J	TW A & B	105	52	RAVELING	Medium	662.63	SqFt	0.5%	FDOT - PATCHING - AC PARTIAL DEPTH	663.06	SqFt	\$ 3.00	\$ 1,990.00
40J	TW A & B	110	48	L & T CR	Medium	844.23	Ft	0.8%	FDOT - CRACK SEALING - AC	844.16	Ft	\$ 3.00	\$ 2,540.00
40J	TW A & B	110	52	RAVELING	Low	111708.4	SqFt	99.8%	FDOT - SURFACE SEAL	111707.9	SqFt	\$ 0.55	\$ 61,450.00
40J	TW A & B	110	52	RAVELING	Medium	250.58	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	250.8	SqFt	\$ 3.00	\$ 760.00
40J	TW C	205	48	L & T CR	Medium	3667.62	Ft	2.4%	FDOT - CRACK SEALING - AC	3667.65	Ft	\$ 3.00	\$ 11,010.00
40J	TW C	205	52	RAVELING	Low	125747.34	SqFt	82.3%	FDOT - SURFACE SEAL	125747.2	SqFt	\$ 0.55	\$ 69,170.00
40J	TW C	205	52	RAVELING	Medium	27070.59	SqFt	17.7%	FDOT - PATCHING - AC PARTIAL DEPTH	27070.16	SqFt	\$ 3.00	\$ 81,220.00
40J	TW C	210	48	L & T CR	Medium	286.19	Ft	0.5%	FDOT - CRACK SEALING - AC	286.09	Ft	\$ 3.00	\$ 860.00
40J	TW C	210	52	RAVELING	Low	56415.05	SqFt	97.6%	FDOT - SURFACE SEAL	56414.73	SqFt	\$ 0.55	\$ 31,030.00
40J	TW C	210	52	RAVELING	Medium	1375.95	SqFt	2.4%	FDOT - PATCHING - AC PARTIAL DEPTH	1375.63	SqFt	\$ 3.00	\$ 4,130.00
40J	TW C	215	41	ALLIGATOR CR	Medium	51.99	SqFt	1.0%	FDOT - PATCHING - AC FULL DEPTH	85.03	SqFt	\$ 6.00	\$ 520.00
40J	TW C	215	41	ALLIGATOR CR	High	6.03	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	19.38	SqFt	\$ 6.00	\$ 120.00
40J	TW C	215	43	BLOCK CR	Medium	4418.05	SqFt	88.4%	FDOT - CRACK SEALING - AC	1346.46	Ft	\$ 3.00	\$ 4,040.00
40J	TW C	215	52	RAVELING	Low	2876.01	SqFt	57.5%	FDOT - SURFACE SEAL	2876.12	SqFt	\$ 0.55	\$ 1,590.00
40J	TW C	215	52	RAVELING	Medium	1599.95	SqFt	32.0%	FDOT - PATCHING - AC PARTIAL DEPTH	1599.52	SqFt	\$ 3.00	\$ 4,800.00

Perry-Foley Airport (40J)



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Table B-2 10-Year Major Rehab	litation Planning Needs at Section Level
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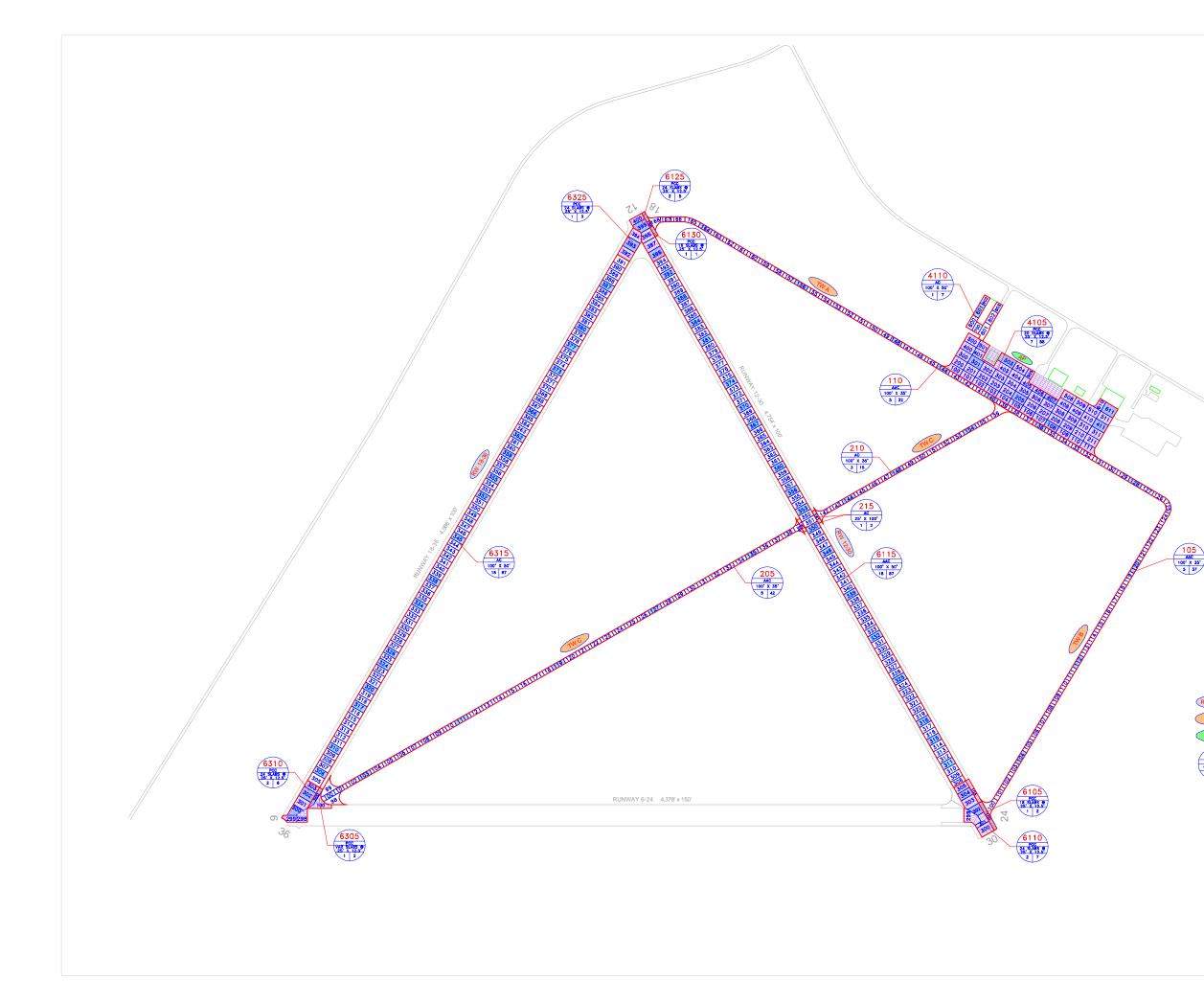
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2018	40J	AP	4105	PCC	339,332	37	PCC Reconstruction	\$ 5,091,000.00
2018	40J	RW 12-30	6105	PCC	10,250	34	PCC Reconstruction	\$ 154,000.00
2018	40J	RW 12-30	6110	PCC	45,034	45	PCC Restoration	\$ 558,000.00
2018	40J	RW 12-30	6115	AAC	434,400	62	AC Restoration	\$ 3,041,000.00
2018	40J	RW 12-30	6125	PCC	32,882	45	PCC Restoration	\$ 407,000.00
2018	40J	RW 12-30	6130	PCC	4,875	33	PCC Reconstruction	\$ 74,000.00
2018	40J	RW 18-36	6305	PCC	10,996	51	PCC Restoration	\$ 110,000.00
2018	40J	RW 18-36	6310	PCC	35,176	53	PCC Restoration	\$ 352,000.00
2018	40J	RW 18-36	6325	PCC	21,407	53	PCC Restoration	\$ 215,000.00
2018	40J	TW A & B	105	AAC	131,781	56	AC Restoration	\$ 923,000.00
2018	40J	TW A & B	110	AAC	111,959	57	AC Restoration	\$ 784,000.00
2018	40J	TW C	205	AAC	152,818	54	AC Restoration	\$ 1,070,000.00
2018	40J	TW C	210	AC	57,791	57	AC Restoration	\$ 405,000.00
2018	40J	TW C	215	AC	5,000	19	AC Reconstruction	\$ 46,000.00

Statewide Airfield Pavement Management Program



Appendix C

Technical Exhibits





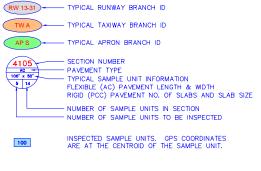
001 - AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT

Airport Pavement Evaluation Report

Statewide Airfield Pavement Management Program PERRY-FOLEY AIRPORT - 40J

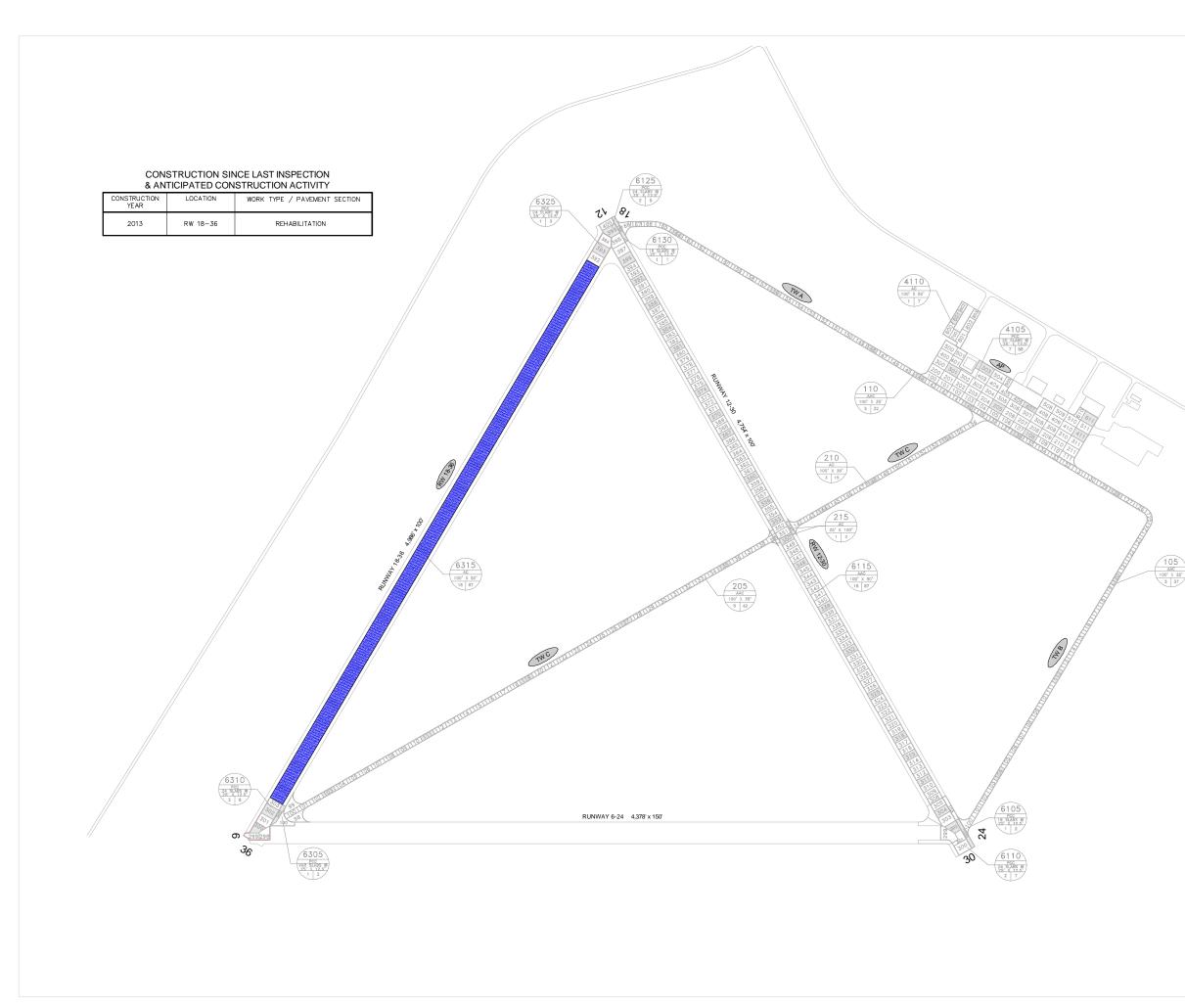
FDOT



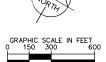


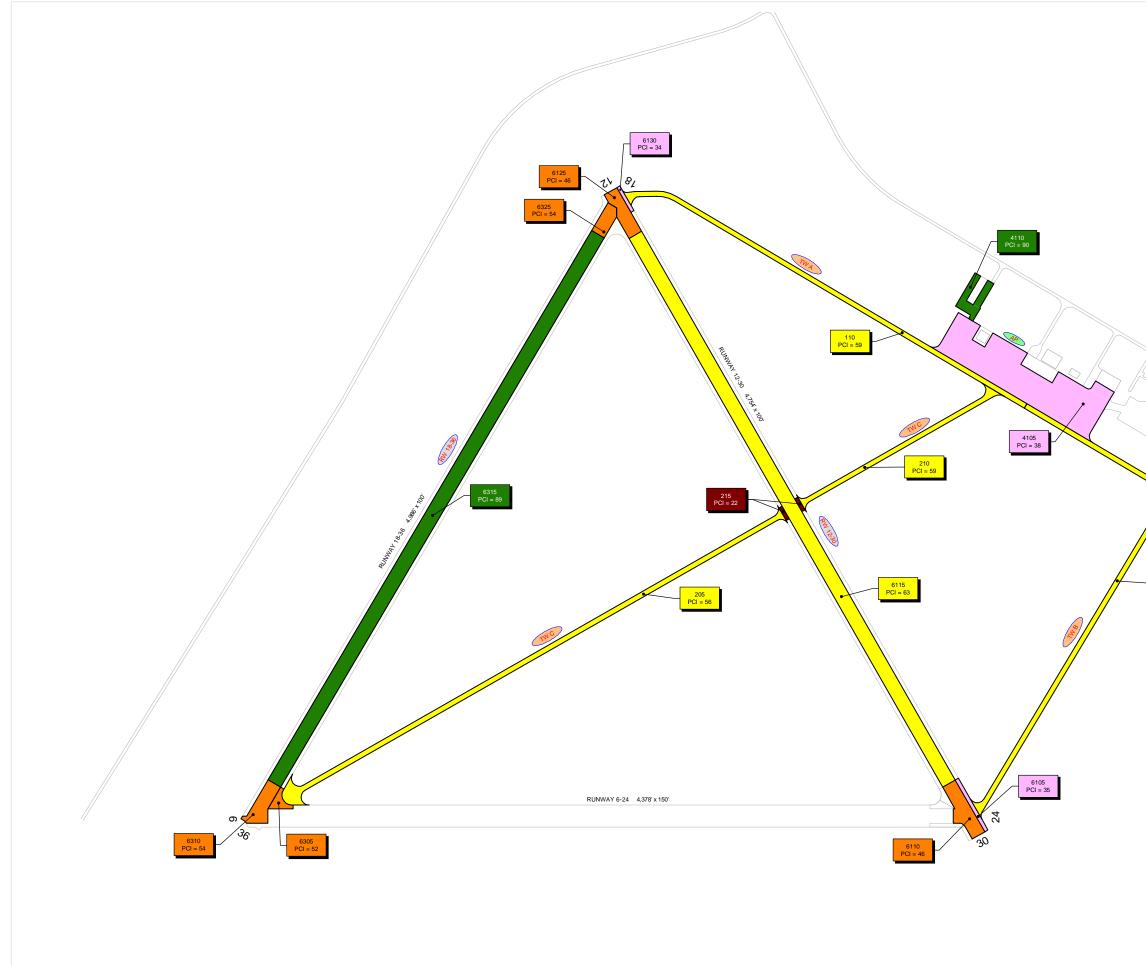
TOTAL SAMPLES INSPECTED = 73 AC: 56 PCC: 17

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











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

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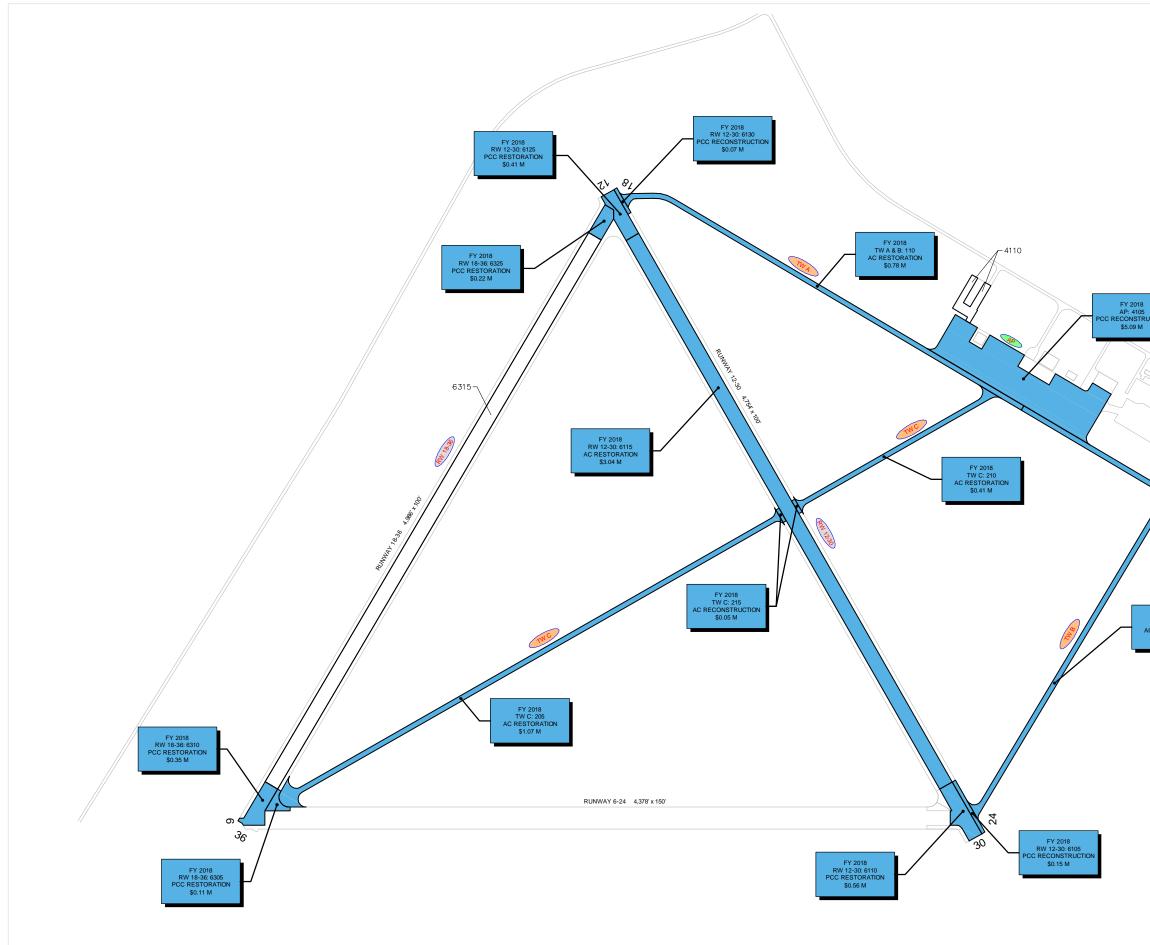


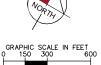
 Statewide Airfield Pavement
 Airport Pavement Evaluation Report

 Management Program
 2017

 PERRY-FOLEY AIRPORT - 40J

FDOT



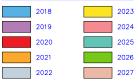




LEGEND

RW 13-31	TYPICAL	RUNWAY	BRANCH	ID
TWA	TYPICAL	TAXIWAY	BRANCH	ID
AP S	TYPICAL	APRON E	BRANCH I	C

PROGRAM YEAR





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Airport Pavement Evaluation Report

Statewide Airfield Pavement Management Program PERRY-FOLEY AIRPORT - 40J

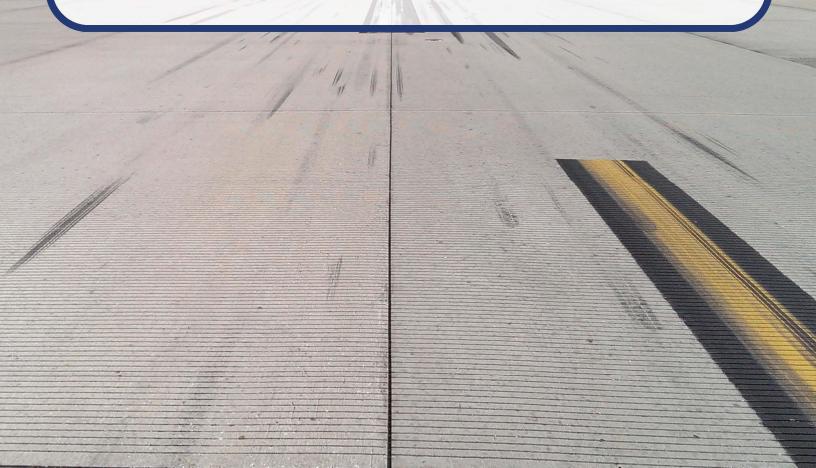
FDOT

Statewide Airfield Pavement Management Program



Appendix D

Inspection Photograph Documentation

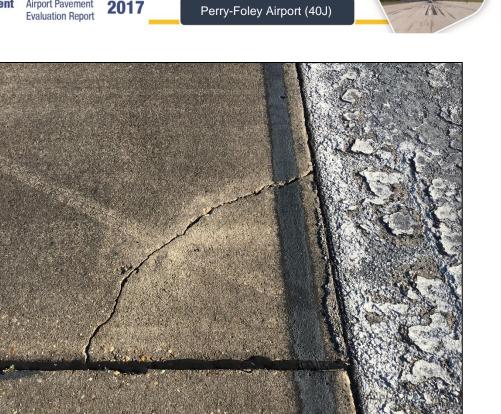




Runway 12-30, Section 6110, Sample Unit 302 – Medium Severity (63) Longitudinal, Transverse, and Diagonal Cracking, High Severity (65) Joint Seal Damage, Low Severity (66) Small Patching



Runway 12-30, Section 6115, Sample Unit 374 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling



Runway 12-30, Section 6125, Sample Unit 396 - Low Severity (62) Corner Break, High Severity (65) Joint Seal Damage



Runway 18-36, Section 6310, Sample Unit 300 - (73) Shrinkage Cracks

FDOT



Runway 18-36, Section 6315, Sample Unit 326 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (50) Patching, Low Severity (57) Weathering

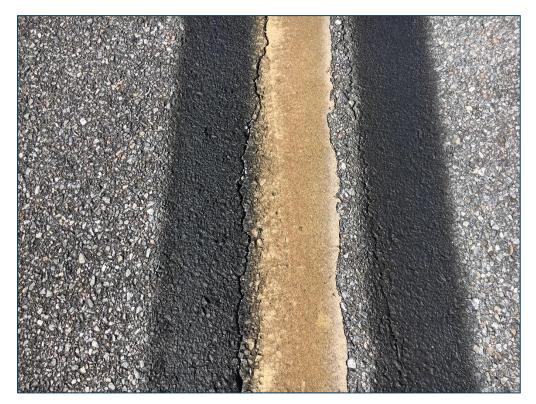


Runway 18-36, Section 6325, Sample Unit 393 – Medium Severity (63) Longitudinal, Transverse, and Diagonal Cracking, High Severity (65) Joint Seal Damage

Airport Pavement 2017 Evaluation Report



Taxiway A & B, Section 105, Sample Unit 112 – Low Severity (45) Depression, Low Severity (52) Raveling, Medium Severity (52) Raveling



Taxiway A & B, Section 105, Sample Unit 136 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling

2017



Taxiway C, Section 205, Sample Unit 111 – Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Taxiway C, Section 215, Sample Unit 141 – Medium Severity (43) Block Cracking, Low Severity (52) Raveling, Medium Severity (52) Raveling



Taxiway C, Section 210, Sample Unit 148 – Medium Severity (48) Longitudinal and Transverse Cracking, Low Severity (52) Raveling



Apron, Section 4105, Sample Unit 503 – Medium Severity (63) Longitudinal, Transverse, and Diagonal Cracking, High Severity (65) Joint Seal Damage

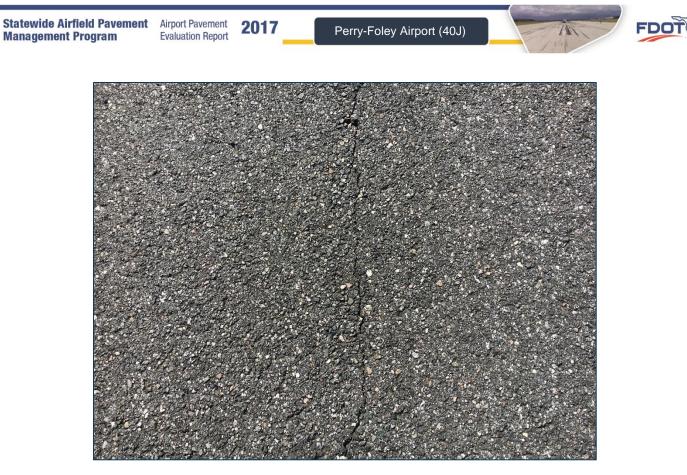
Airport Pavement Evaluation Report **2017**



Apron, Section 4105, Sample Unit 205 – High Severity (66) Small Patching, Medium Severity (66) Small Patching



Apron, Section 4105, Sample Unit 611 – Medium Severity (72) Shattered Slab



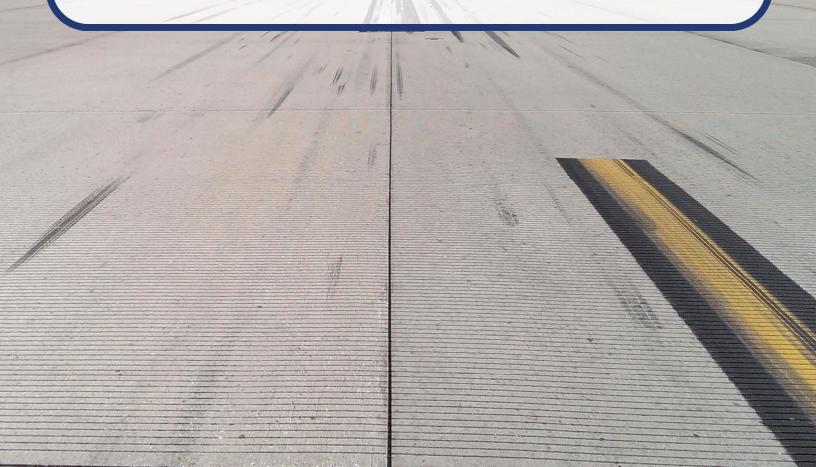
T-Hangar Taxilane, Section 4110, Sample Unit 601 – Low Severity (48) Longitudinal and Transverse Cracking, Low Severity (57) Weathering

Statewide Airfield Pavement Management Program



Appendix E

Inspection Distress Details



Re-Inspection Report

FDOT							Poit				
DOT Generated Dat	e	6	29/2017								Page 1 of
	40J	0/	29/2017		Name	PERRY-FOLE	Y AIRPORT				
ranch:	AP		Name:	APRO	N	Use	APRON	Area:	339	,332 SqFt	
ection: 410		of 1		From: -			To: -			Last Const.:	1/1/1045
urface: PCC				-AP-PCC	Zone:					Rank: P	1/1/1943
		•			2011e:	Width:	Category 300		1	Kalik; P	
rea:	339,332	-	Lengt			Width:				41 700 E	' 4
labs: 1,05	92	Slab Length		25 Ft			13 Ft		oint Length:	41,700 F	l
houlder: ection Comm	omta	Street Type:			C	Grade: 0		L	anes: 0		
Vork Date: 1/	1/1945	Work	Туре: В	UILT			Code: IMPORT	ED	Is Major M&	zR: True	
ast Insp. Date	e: 2/8/2017		Tot	alSamples: 5	58	Surve	yed: 7				
Conditions:	PCI: 38										
nspection Con	nments:										
ample Numbe	er: 108	Type:	R	А	rea:	16.00 Slabs	PCI	56			
ample Comm	ents: Repa	airs done									
3 SHRINI	KAGE CR		N	16.00	Slabs						
3 LINEAH			L	15.00							
3 LINEAH			М		Slabs						
	PATCH		L	7.00							
4 JOINT S 5 CORNE	R SPALL		L L	1.00 1.00							
ample Numbe		Туре:	R		rea:	20.00 Slabs	DCI	: 39			
ample Comm		airs done	К	А	ita.	20.00 51abs	rei	. 59			
3 LINEAI			М	1.00	Slabs						
	KAGE CR		N	20.00							
3 LINEAH			L		Slabs						
	PATCH		М	2.00							
6 SMALL	PATCH		Н	5.00	Slabs						
	PATCH		Н	1.00	Slabs						
4 JOINT S	SPALL		L		Slabs						
5 CORNE	R SPALL		L	1.00	Slabs						
ample Numbe		Type:	R	А	rea:	20.00 Slabs	PCI	: 22			
ample Comm	ents:										
5 JT SEAL	L DMG		Н	20.00	Slabs						
	KAGE CR		Ν	17.00							
3 LINEAH			М	18.00							
0 SCALIN			L	2.00							
4 JOINT S			L	2.00							
4 JOINT S			M M		Slabs Slabs						
1 FAULT 1 FAULT			L		Slabs						
2 SHAT. S			L		Slabs						
2 SHAT. S			M	1.00							
ample Numbe	er: 407	Type:	R	А	rea:	12.00 Slabs	PCI	: 60			
ample Comm	ents: Repa	airs done									
1 FAULT	ING		L	1.00	Slabs						
	KAGE CR		N	12.00							
3 LINEAI			L	12.00							
	PATCH		М	1.00	Slabs						
4 JOINT S	SPALL		L	1.00	Slabs						
ample Numbe		Туре:	R	Α	rea:	22.00 Slabs	PCI	: 58			
ample Comm	ents: Repa	airs done									
	KAGE CR		Ν	18.00							
53 LINEAR			L	14.00						E-1	
2 SHAT. S	SLAB		L	2.00	Slabs						

67	LARGE PATCH	L	3.00 Slabs		
66	SMALL PATCH	L	1.00 Slabs		
Samp	ple Number: 503	Type: R	Area:	25.00 Slabs	PCI: 15
Samp	ple Comments:				
65	JT SEAL DMG	Н	25.00 Slabs		
73	SHRINKAGE CR	Ν	22.00 Slabs		
63	LINEAR CR	М	20.00 Slabs		
63	LINEAR CR	Н	2.00 Slabs		
72	SHAT. SLAB	L	1.00 Slabs		
72	SHAT. SLAB	М	2.00 Slabs		
71	FAULTING	L	3.00 Slabs		
75	CORNER SPALL	М	2.00 Slabs		
75	CORNER SPALL	L	2.00 Slabs		
75	CORNER SPALL	Н	2.00 Slabs		
70	SCALING	L	1.00 Slabs		
70	SCALING	М	1.00 Slabs		
74	JOINT SPALL	М	1.00 Slabs		
66	SMALL PATCH	Н	1.00 Slabs		
Samp	ple Number: 611	Type: R	Area:	24.00 Slabs	PCI: 30
Samp	ple Comments:				
73	SHRINKAGE CR	Ν	24.00 Slabs		
63	LINEAR CR	L	13.00 Slabs		
72	SHAT. SLAB	L	7.00 Slabs		
72	SHAT. SLAB	М	4.00 Slabs		

Network:	40J			Name:	PERRY-FOLEY	AIRPORT		
Branch:	RW 12-30	Na	ame: RUNV	WAY 12-30	Use:	RUNWAY	Area:	527,441 SqFt
Section: 610)5	of 5	From:	-		То: -		Last Const.: 1/1/1945
Surface: PC	C Fai	mily: C9N59	-GA-RW-TW-PCC	Z Zone:		Category:		Rank: P
Area:	10,250 Sc	qFt I	ength:	850 Ft	Width:	25 Ft		
Slabs: 142	2 SI	ab Length:	12 Ft	Slab Widt	th:	13 Ft	Joint Leng	gth: 2,596 Ft
Shoulder:	St	reet Type:		Grade:	0		Lanes:	0
Section Comm	ients:							
Work Date: 1	/1/1945	Work Typ	e: BUILT		C	ode: IMPORTED	Is Ma	jor M&R: True
Last Insp. Dat	e: 2/8/2017		TotalSamples:	2	Surveye	d: 1		
Conditions:	PCI: 35							
Inspection Co	mments:							
Sample Numb	er: 100	Туре:	R A	Area:	18.00 Slabs	PCI: 35	;	
Sample Comm	nents:							
75 CORNI	ER SPALL	L	1.00	Slabs				
65 JT SEA	L DMG	Н	18.00	Slabs				
63 LINEA	R CR	L	3.00	Slabs				
63 LINEA	R CR	Μ	7.00	Slabs				
73 SHRIN	KAGE CR	Ν	17.00	Slabs				
	INC	т	2.00	Slabs				
71 FAULT	ING	L	2.00	Slabs				

Network	: 40J					Nam	e: PER	RY-FOLEY	AIRPORT				
Branch:	RW 12-30		N	ame:	RUNV	VAY 12-	30	Use:	RUNWAY	Are	a:	527,441 SqFt	
Section:	6110	of	5	Fro	m:	-			To: -			Last Const.:	1/1/1945
Surface:	PCC	Family:	C9N5	9-GA-RW-T	ГW-РСС	C Zone	:		Category:			Rank: P	
Area:	45,03	4 SqFt	I	Length:		425 Ft		Width:	100 F	t			
Slabs:	136	Slab Leng	gth:		25 Ft		Slab Width:		13 Ft		Joint Length	: 4,575 Ft	
Shoulder	:	Street Typ	pe:				Grade: 0				Lanes: 0		
Section (Comments:												
Work Da	ate: 1/1/1945	Wo	rk Typ	e: BUILT				C	ode: IMPORTI	ED	Is Major	M&R: True	
Last Insp	Date: 2/8/2017			TotalSam	ples:	7		Surveye	ed: 2				
Conditio	ns: PCI: 46												
Inspectio	on Comments:												
Sample N	Number: 302	Туре	:	R	A	Area:	18	3.00 Slabs	PCI:	50			
Sample (Comments:												
65 JT	Г SEAL DMG		Н		18.00	Slabs							
	INEAR CR		Μ			Slabs							
	INEAR CR		L		1.00								
	MALL PATCH		М		4.00								
	MALL PATCH		H		1.00								
	HRINKAGE CR Number: 304	Туре	N	R		Slabs	14	5.00 Slabs	PCI:	41			
-	Comments:	туре	•	ĸ	F	rea:	П	5.00 51408	rci;	41			
-					16.00	01.1							
	F SEAL DMG AULTING		H L		16.00	Slabs Slabs							
	AULTING INEAR CR		L M			Slabs							
	INEAR CR		L		3.00								
	HRINKAGE CR		N N			Slabs							
	DINT SPALL		L			Slabs							
	MALL PATCH		L		1.00								

Netwo	ork: 40J			Nam	e: PERRY-FO	DLEY	AIRPORT	
Branc	ch: RW 12-30		Name:	RUNWAY 12-	-30	Use:	RUNWAY	Area: 527,441 SqFt
Sectio	n: 6115	of 5		From: -			То: -	Last Const.: 1/1/1997
Surfa				RW-AAC- Zone	2:		Category:	Rank: P
Area:	434,40	00 SqFt	Length	h: 4,325 Fi	t Widt	h:	100 Ft	
Slabs:	:	Slab Length:		Ft	Slab Width:		Ft	Joint Length: Ft
Shoul	der:	Street Type:			Grade: 0			Lanes: 0
Sectio	on Comments:							
Work	Date: 1/1/1940	Work	Type: BU	JILT		Co	ode: IMPORTED	Is Major M&R: True
Work	Date: 1/1/1997	Work '	Type: OV	/ERLAY		Co	ode: IMPORTED	Is Major M&R: True
Last I	Insp. Date: 2/8/2017		Tota	lSamples: 87	Su	rveye	d: 18	
Condi	itions: PCI: 63							
Inspe	ction Comments:							
Samp	le Number: 311	Туре:	R	Area:	5000.00 Sq	Ft	PCI: 64	
-	le Comments:	-) pc.			2000.00 by		1 01. 04	
_				100.00 7 7				
52 52	RAVELING RAVELING		M L	100.00 SqFt 4900.00 SqFt				
48	L & T CR		L	157.00 Ft				
Samp	le Number: 315	Туре:	R	Area:	5000.00 Sq	Ft	PCI: 64	Ļ
Samp	le Comments:							
52	RAVELING		М	100.00 SqFt				
52 48	RAVELING L & T CR		L L	4900.00 SqFt 167.00 Ft				
			R		5000.00.8-	F 4	PCI: 64	
-	le Number: 318 le Comments:	Туре:	K	Area:	5000.00 Sq	гі	FCI: 04	
52	RAVELING		М	100.00 SqFt				
52	RAVELING		L	4900.00 SqFt				
48	L & T CR		L	125.00 Ft	5000.00.0	P /		
_	le Number: 325 le Comments:	Туре:	R	Area:	5000.00 Sq	Γl	PCI: 64	
52	RAVELING		М	57.00 SqFt				
52	RAVELING		L	4943.00 SqFt				
48	L & T CR		L	114.00 Ft				
_	le Number: 332	Type:	R	Area:	5000.00 Sq	Ft	PCI: 64	
Samp	le Comments:							
52	RAVELING		М	65.00 SqFt				
48	L & T CR		L	100.00 Ft				
52	RAVELING		L	4935.00 SqFt	5000.00.0	F (
-	le Number: 339	Туре:	R	Area:	5000.00 Sq	гt	PCI: 64	•
_	le Comments:							
52	RAVELING		M	100.00 SqFt				
52 48	RAVELING L & T CR		L L	4900.00 SqFt 128.00 Ft				
	le Number: 346	Туре:	R	Area:	5000.00 Sq	Ft	PCI: 64	
-	le Comments:	- J P • •	-					
52	RAVELING		М	100.00 SqFt				
48	L & T CR		L	124.00 Ft				
52	RAVELING		L	4900.00 SqFt				
-	le Number: 350	Type:	R	Area:	5000.00 Sq	Ft	PCI: 64	1
Samp	le Comments:							
48 52	L & T CR RAVELING		L M	77.00 Ft 100.00 SqFt				E-5

52	RAVELING		L	4900.00 SqFt			
Samp	le Number: 353	Type:	R	Area:	5000.00 SqFt	PCI: 59	
Samp	le Comments:						
48	L & T CR		L	78.00 Ft			
52	RAVELING		М	64.00 SqFt			
48	L & T CR		Μ	36.00 Ft			
52	RAVELING		L	4936.00 SqFt			
-	le Number: 356	Type:	R	Area:	5000.00 SqFt	PCI: 64	
Samp	le Comments:						
52	RAVELING		М	57.00 SqFt			
48 52	L & T CR RAVELING		L L	64.00 Ft 4943.00 SqFt			
	le Number: 360	Туре:	R	Area:	5000.00 SqFt	PCI: 64	
	le Comments:	Type.	R	nicu.	2000.00 541		
52	RAVELING		М	59.00 SqFt			
48	L & T CR		L	102.00 Ft			
52	RAVELING		L	4941.00 SqFt			
Samp	le Number: 367	Type:	R	Area:	5000.00 SqFt	PCI: 64	
Samp	le Comments:						
52	RAVELING		М	100.00 SqFt			
48	L & T CR		L	104.00 Ft			
52	RAVELING		L	4900.00 SqFt			
Samp	le Number: 370	Type:	R	Area:	5000.00 SqFt	PCI: 64	
Samp	le Comments:						
48	L & T CR		L	110.00 Ft			
52	RAVELING		Μ	100.00 SqFt			
52	RAVELING		L	4900.00 SqFt			
Samp	le Number: 374	Type:	R	Area:	5000.00 SqFt	PCI: 58	
-	le Number: 374 le Comments:	Туре:	R	Area:	5000.00 SqFt	PCI: 58	
Samp	le Comments: L & T CR	Туре:	L	103.00 Ft	5000.00 SqFt	PCI: 58	
Samp 48 52	le Comments: L & T CR RAVELING	Туре:	L L	103.00 Ft 3700.00 SqFt	5000.00 SqFt	PCI: 58	
Samp 48 52 52	le Comments: L & T CR RAVELING RAVELING		L L M	103.00 Ft 3700.00 SqFt 1300.00 SqFt			
Samp 48 52 52 Samp	le Comments: L & T CR RAVELING RAVELING le Number: 381	Type: Type:	L L	103.00 Ft 3700.00 SqFt	5000.00 SqFt 5000.00 SqFt	PCI: 58 PCI: 64	
Samp 48 52 52 Samp	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments:		L L M	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area:			
Samp 48 52 52 Samp 58 Samp 48	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR	Туре:	L L M R	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft			
Samp 48 52 52 Samp 8 amp 48 52	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING	Туре:	L L M R L M	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt			
Samp 48 52 52 Samp Samp 48 52 52	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING RAVELING	Туре:	L M R L M L	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt	5000.00 SqFt	PCI: 64	
Samp 48 52 52 Samp Samp 48 52 52 Samp	L & T CR RAVELING RAVELING de Number: 381 de Comments: L & T CR RAVELING RAVELING RAVELING Ste Number: 384	Туре:	L L M R L M	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt			
Samp 48 52 52 Samp 48 52 52 Samp Samp Samp	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING RAVELING RAVELING le Number: 384 le Comments:	Type: Type:	L L M R	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt Area:	5000.00 SqFt	PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp Samp 48	L & T CR RAVELING RAVELING Be Number: 381 Be Comments: L & T CR RAVELING RAVELING RAVELING Be Number: 384 Be Comments: L & T CR	Type: Type:	L L M R L R R L L	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt Area: 136.00 Ft	5000.00 SqFt	PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp Samp Samp	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING RAVELING RAVELING le Number: 384 le Comments:	Type: Type:	L L M R	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt Area:	5000.00 SqFt	PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 52 Samp 48 52 52	L & T CR RAVELING RAVELING Be Number: 381 Be Comments: L & T CR RAVELING RAVELING RAVELING Be Number: 384 Be Comments: L & T CR RAVELING	Type: Type:	L L M R L R R L M K	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt Area: 136.00 Ft 67.00 SqFt	5000.00 SqFt	PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING RAVELING le Number: 384 le Comments: L & T CR RAVELING RAVELING RAVELING RAVELING	Туре: Туре:	L L M L R	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt Area: 136.00 Ft 67.00 SqFt 4933.00 SqFt	5000.00 SqFt 5000.00 SqFt	PCI: 64 PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp	L & T CR RAVELING RAVELING Be Number: 381 Be Comments: L & T CR RAVELING RAVELING Be Number: 384 Be Comments: L & T CR RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING	Туре: Туре:	L L M L R	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt Area: 136.00 Ft 67.00 SqFt 4933.00 SqFt	5000.00 SqFt 5000.00 SqFt	PCI: 64 PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp	L & T CR RAVELING RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING le Number: 384 le Comments: L & T CR RAVELING RAVELING RAVELING le Number: 388 le Comments: L & T CR RAVELING	Type: Type: Type:	L L M R L M L R L M L L M L L M L L M L M	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt 4946.00 SqFt 136.00 Ft 67.00 SqFt 4933.00 SqFt 4933.00 SqFt 74.00 Ft 69.00 SqFt	5000.00 SqFt 5000.00 SqFt	PCI: 64 PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING RAVELING le Number: 384 le Comments: L & T CR RAVELING RAVELING le Number: 388 le Comments: L & T CR RAVELING RAVELING L & T CR RAVELING RAVELING RAVELING RAVELING	Type: Type: Type:	L L M R L M L R R R L M L R R L M L M L	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt 4946.00 SqFt 136.00 Ft 67.00 SqFt 4933.00 SqFt Area: 74.00 Ft 69.00 SqFt 4931.00 SqFt	5000.00 SqFt 5000.00 SqFt 5000.00 SqFt	PCI: 64 PCI: 64 PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 52 Samp	L & T CR RAVELING RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING	Type: Type: Type:	L L M R L M L R L M L L M L L M L L M L M	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt 4946.00 SqFt 136.00 Ft 67.00 SqFt 4933.00 SqFt 4933.00 SqFt 74.00 Ft 69.00 SqFt	5000.00 SqFt 5000.00 SqFt	PCI: 64 PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 52 Samp	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING RAVELING le Number: 384 le Comments: L & T CR RAVELING RAVELING le Number: 388 le Comments: L & T CR RAVELING RAVELING L & T CR RAVELING RAVELING RAVELING RAVELING	Type: Type: Type:	L L M R L M L R R R L M L R R L M L M L	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt 4946.00 SqFt 136.00 Ft 67.00 SqFt 4933.00 SqFt Area: 74.00 Ft 69.00 SqFt 4931.00 SqFt	5000.00 SqFt 5000.00 SqFt 5000.00 SqFt	PCI: 64 PCI: 64 PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 52 Samp 48 52 52 Samp 48 52 52 Samp 53 Samp 53 S Samp 53 S Samp 53 Sa Samp 53 Samp 53 Samp 53 Sa Samp 53 Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING RAVELING le Number: 384 le Comments: L & T CR RAVELING RAVELING RAVELING le Number: 388 le Comments: L & T CR RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING L & T CR RAVELING RAVELING RAVELING L & T CR	Type: Type: Type: Type:	L	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt 4946.00 SqFt 4946.00 SqFt 4933.00 SqFt 4933.00 SqFt 4933.00 SqFt 4933.00 SqFt 4931.00 SqFt 4931.00 SqFt	5000.00 SqFt 5000.00 SqFt 5000.00 SqFt	PCI: 64 PCI: 64 PCI: 64	
Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 48 52 52 Samp 52 Samp 52 Samp	le Comments: L & T CR RAVELING RAVELING le Number: 381 le Comments: L & T CR RAVELING RAVELING RAVELING RAVELING RAVELING RAVELING le Number: 388 le Comments: L & T CR RAVELING	Type: Type: Type: Type:	L	103.00 Ft 3700.00 SqFt 1300.00 SqFt Area: 57.00 Ft 54.00 SqFt 4946.00 SqFt 4946.00 SqFt 4946.00 SqFt 4933.00 SqFt 4933.00 SqFt 4933.00 SqFt 4931.00 SqFt 4931.00 SqFt	5000.00 SqFt 5000.00 SqFt 5000.00 SqFt	PCI: 64 PCI: 64 PCI: 64	

Netwo	ork: 40J		Name:	PERRY-FOLEY	AIRPORT		
Branc	ch: RW 12-30	Name:	RUNWAY 12-30	Use:	RUNWAY A	srea: 527,441 SqFt	
Sectio	on: 6125	of 5	From: -		То: -	Last Const.: 1/1/19	945
Surfa	ce: PCC	Family: C9N59-GA-R	W-TW-PCC Zone:		Category:	Rank: P	
Area:	32,882	2 SqFt Length:	345 Ft	Width:	100 Ft		
Slabs	: 110	Slab Length:	25 Ft Sla	ab Width:	13 Ft	Joint Length: 3,695 Ft	
Shoul	der:	Street Type:	Gi	rade: 0		Lanes: 0	
Sectio	on Comments:						
Work	Date: 1/1/1945	Work Type: BUI	LT	C	ode: IMPORTED	Is Major M&R: True	
Last I	Insp. Date: 2/8/2017	Totals	Samples: 5	Surveye	d: 2		
Condi	itions: PCI: 46			-			
Inspe	ction Comments:						
Samp	le Number: 396	Type: R	Area:	24.00 Slabs	PCI: 46		
Samp	le Comments:						
65	JT SEAL DMG	Н	24.00 Slabs				
73	SHRINKAGE CR	Ν	7.00 Slabs				
66	SMALL PATCH	Н	1.00 Slabs				
66	SMALL PATCH	М	1.00 Slabs				
63	LINEAR CR	М	3.00 Slabs				
63	LINEAR CR	L	9.00 Slabs				
74	JOINT SPALL	L	2.00 Slabs				
62	CORNER BREAK	L	1.00 Slabs				
Samp	le Number: 399	Type: R	Area:	23.00 Slabs	PCI: 46		
Samp	le Comments:						
65	JT SEAL DMG	Н	23.00 Slabs				
73	SHRINKAGE CR	Ν	11.00 Slabs				
72	SHAT. SLAB	L	1.00 Slabs				
66	SMALL PATCH	М	1.00 Slabs				
66	SMALL PATCH	Н	1.00 Slabs				
63	LINEAR CR	L	7.00 Slabs				
63	LINEAR CR	M	3.00 Slabs				
74	JOINT SPALL	L	1.00 Slabs				

Network:	40J				Name: P	ERRY-FOLEY	AIRPORT		
Branch:	RW 12-30		Name:	RUNWA	Y 12-30	Use:	RUNWAY	Area:	527,441 SqFt
Section: (6130	of	5 F	rom: -			То: -		Last Const.: 1/1/194
Surface: 1	PCC	Family:	C9N59-GA-RW	-TW-PCC	Zone:		Category:		Rank: P
Area:	2	4,875 SqFt	Length:	2	200 Ft	Width:	25 Ft		
Slabs: 2	26	Slab Leng	th:	15 Ft	Slab Widtl	h:	13 Ft	Joint Leng	th: 508 Ft
Shoulder:		Street Typ	pe:		Grade:	0		Lanes:	0
Section Con	nments:								
Work Date:	: 1/1/1945	Wo	rk Type: BUIL	т			ode: IMPORTED	Is Maj	or M&R: True
			IK Type. DOIL	1		C		15 101430	i man. muc
Last Insp. D	Date: 2/8/20		••	mples: 1		Surveye		15 1/14j	
Last Insp. D		017	••					13 1914j.	
Conditions:	: PCI: 3	017	••					15 114)	
Conditions: Inspection (: PCI: 3	017	TotalSa		ea:				
Conditions: Inspection (: PCI: 3 Comments: mber: 198	017 34	TotalSa	mples: 1	ea:	Surveyo	e d: 1		
Conditions: Inspection (Sample Nur Sample Cor	: PCI: 3 Comments: mber: 198	017 34	TotalSa	mples: 1		Surveyo	e d: 1		
Conditions: Inspection (Sample Nur Sample Cor 65 JT S	: PCI: 3 Comments: mber: 198 mments:	017 34	TotalSa	mples: 1	labs	Surveyo	e d: 1		
Conditions: Inspection (Sample Nur Sample Cor 65 JT SI 63 LINI	: PCI: 3 Comments: mber: 198 mments: EAL DMG	017 34 Тур е	TotalSa :: R M	mples: 1 Arc 16.00 S	labs labs	Surveyo	e d: 1		
Conditions: Inspection (Sample Nur Sample Cor 65 JT SJ 63 LINE 73 SHR	: PCI: 3 Comments: mber: 198 mments: EAL DMG EAR CR	017 34 Тур е	TotalSa TotalSa :: R M M	mples: 1 Are 16.00 S 4.00 S	labs labs labs	Surveyo	e d: 1		
Conditions: Inspection (Sample Nur Sample Cor 65 JT SI 63 LINI 73 SHR 67 LAR	: PCI: 3 Comments: mber: 198 mments: EAL DMG EAR CR RINKAGE CR	017 34 Туре	TotalSa TotalSa :: R M M N	mples: 1 Are 16.00 S 4.00 S 5.00 S	labs labs labs labs	Surveyo	e d: 1		
Conditions: Inspection (Sample Nur Sample Cor 65 JT SJ 63 LINI 73 SHR 67 LAR 62 COR	: PCI: 3 Comments: mber: 198 mments: EAL DMG EAR CR RINKAGE CR RGE PATCH	017 34 Туре	TotalSa TotalSa R M M N L	mples: 1 Are 16.00 S 4.00 S 5.00 S 3.00 S	labs labs labs labs labs	Surveyo	e d: 1		
Conditions: Inspection (Sample Nur Sample Cor 65 JT SI 63 LINI 73 SHR 67 LAR 62 COR 66 SMA	: PCI: 3 Comments: mber: 198 mments: EAL DMG EAR CR RINKAGE CR RINKAGE CR RGE PATCH RNER BREAH	017 34 Type 5	TotalSa TotalSa M M N L L L	mples: 1 Are 16.00 S 4.00 S 5.00 S 3.00 S 1.00 S	labs labs labs labs labs labs	Surveyo	e d: 1		
Conditions: Inspection (Sample Nur Sample Cor 65 JT SJ 63 LINI 73 SHR 67 LAR 67 LAR 62 COR 66 SMA 75 COR	: PCI: 3 Comments: mber: 198 mments: EAL DMG EAR CR RINKAGE CR RINKAGE CR RGE PATCH RNER BREAH ALL PATCH	017 34 Type 5	TotalSa TotalSa M M N L L L M	mples: 1 Are 16.00 S 4.00 S 5.00 S 3.00 S 1.00 S 1.00 S	labs labs labs labs labs labs labs	Surveyo	e d: 1		

Network:	40J				Name: PE	RRY-FOLEY	AIRPORT		
Branch:	RW 18-36		Name:	RUNWA	Y 18-36	Use:	RUNWAY	Area:	505,579 SqFt
Section:	6305	of	4 F r	om: -			То: -		Last Const.: 1/1/1943
Surface:	PCC	Family:	C9N59-GA-RW	-TW-PCC	Zone:		Category:		Rank: P
Area:	10,9	996 SqFt	Length:	4	25 Ft	Width:	25 Ft		
Slabs:	34	Slab Lengt	th:	25 Ft	Slab Width:		13 Ft	Joint Length	h: 825 Ft
Shoulder:		Street Typ	e:		Grade: ()		Lanes: 0)
Section Co	omments:								
Work Date	e: 1/1/1945	Wor	k Type: BUILT	ſ		С	ode: IMPORTED	Is Majo	r M&R: True
Last Insp.	Date: 2/8/2017	7	TotalSa	mples: 2		Surveye	d: 1		
_			TotalSa	mples: 2		Surveye	d: 1		
Conditions				_		Surveye	d: 1		
Conditions Inspection	s: PCI: 52		e due to recent co	_	a:]	Surveye	d: 1 PCI: 52	2	
Conditions Inspection Sample Nu	s: PCI: 52 Comments: G umber: 500	eometry update	e due to recent co	onstruction	a:]			2	
Conditions Inspection Sample Nu Sample Co	s: PCI: 52 Comments: G umber: 500	eometry update	e due to recent co	onstruction				2	
Conditions Inspection Sample Nu Sample Co	s: PCI: 52 Comments: G umber: 500 omments:	eometry update	e due to recent co	onstruction Are:	abs			2	
Conditions Inspection Sample Nu Sample Co 73 SHI 66 SM	s: PCI: 52 Comments: G umber: 500 omments: RINKAGE CR	eometry update	e due to recent co : R N	Area 14.00 SI	abs abs			2	
Conditions Inspection Sample Nu Sample Co 73 SHI 66 SM 63 LIN	s: PCI: 52 Comments: G umber: 500 omments: RINKAGE CR IALL PATCH	eometry update	e due to recent co R N H	Are: 14.00 SI 2.00 SI	abs abs abs			2	

Network	: 40J				Name:	PERRY-FOL	EY A	IRPORT				
Branch:	RW 18-36		Name:	RUNV	/AY 18-36	Us	e:	RUNWAY	Area:	5	05,579 SqFt	
Section:	6310	of 4	F	rom:	-			To: -			Last Const.:	1/1/1945
Surface:	PCC	Family: C9	N59-GA-RW	/-TW-PCC	Zone:			Category:			Rank: P	
Area:	35,1	76 SqFt	Length:		250 Ft	Width:		100 Ft				
Slabs:	80	Slab Length:		25 Ft	Slab '	Width:		13 Ft	Joint	Length:	2,650 Ft	
Shoulder	:	Street Type:			Grad	e: 0			Lane	s: 0		
Section C	Comments:											
Work Da	nte: 1/1/1945	Work 7	fype: BUIL	Т			Cod	le: IMPORTED	I	s Major N	M&R: True	
Last Insp	D. Date: 2/8/2017		TotalSa	mples:	6	Surv	eyed	: 2				
Conditio	ns: PCI: 54											
Inspectio	on Comments:											
Sample N	Number: 300	Туре:	R	A	rea:	19.00 Slabs	3	PCI:	38			
Sample (Comments:											
73 SI	HRINKAGE CR		N	18.00	Slabs							
	MALL PATCH		М	1.00	Slabs							
	AULTING		L		Slabs							
	INEAR CR MALL PATCH		L		Slabs Slabs							
	AULTING		H M		Slabs							
	ORNER BREAK		L		Slabs							
	Number: 302	Туре:	R		rea:	24.00 Slabs		PCI:	57			
-	Comments:											
74 JC	DINT SPALL		L	1.00	Slabs							
	HRINKAGE CR		N	24.00								
	INEAR CR		L	9.00	Slabs							
	AULTING		L		Slabs							

Netwo	ork: 40J			Name:	PERRY-FOLEY A	AIRPORT	
Branc	h: RW 18-36		Name:	RUNWAY 18-36	Use:	RUNWAY A	rea: 505,579 SqFt
Sectio		of 4		From: -		То: -	Last Const.: 1/1/2013
Surfa			9N59-GA-	-RW-AC Zone:		Category:	Rank: P
Area:	438,000 SqF	Ft	Lengt	h: 4,370 Ft	Width:	100 Ft	
Slabs:	Sla	b Length	:	Ft Slab	Width:	Ft	Joint Length: Ft
Shoul	der: Str	eet Type:	:	Grad	le: 0		Lanes: 0
Sectio	n Comments:						
Work	Date: 1/1/1940	Work	Type: BU	UILT	Со	de: IMPORTED	Is Major M&R: True
Work	Date: 1/1/1997	Work	Type: O	VERLAY	Со	de: IMPORTED	Is Major M&R: True
Work	Date: 1/1/2013	Work	Type: No	ew Construction - AC		de: NC-AC	Is Major M&R: True
	nsp. Date: 2/8/2017		Tota	alSamples: 87	Surveyed	l: 18	
	tions: PCI: 89						
Inspec	ction Comments:						
_	le Number: 306	Type:	R	Area:	5000.00 SqFt	PCI: 84	
Samp	le Comments:						
48	L & T CR		L	45.00 Ft			
50 57	PATCHING WEATHERING		L L	100.00 SqFt 4900.00 SqFt			
	le Number: 310	Туре:	R	Area:	5000.00 SqFt	PCI: 84	
_	le Comments:	••			-		
48	L & T CR		L	92.00 Ft			
50	PATCHING		L	67.00 SqFt			
57	WEATHERING		L	4933.00 SqFt			
_	le Number: 317	Туре:	R	Area:	5000.00 SqFt	PCI: 89	
_	le Comments:						
48 57	L & T CR WEATHERING		L L	79.00 Ft 5000.00 SqFt			
	le Number: 320	Type:	R	Area:	5000.00 SqFt	PCI: 86	
_	le Comments:	- J F	-				
48	L & T CR		L	94.00 Ft			
57 50	WEATHERING PATCHING		L L	4992.00 SqFt 8.00 SqFt			
	le Number: 324	Type:	R	Area:	5000.00 SqFt	PCI: 81	
-	le Comments:						
48	L & T CR		L	126.00 Ft			
50	PATCHING		L	229.00 SqFt			
57	WEATHERING	.	L	4771.00 SqFt	7000.00 G. F.	D.CT. 0.5	
-	le Number: 326	Type:	R	Area:	5000.00 SqFt	PCI: 85	
_	le Comments:						
48 57	L & T CR WEATHERING		L L	70.00 Ft 4943.00 SqFt			
50	PATCHING		L	57.00 SqFt			
Samp	le Number: 334	Type:	R	Area:	5000.00 SqFt	PCI: 83	
Samp	le Comments:						
48	L & T CR		L	30.00 Ft			
50 57	PATCHING WEATHERING		L L	173.00 SqFt 4827.00 SqFt			
	le Number: 338	Туре:	R	Area:	5000.00 SqFt	PCI: 89	
_	le Comments:	••			-		
48	L & T CR		L	60.00 Ft			E-11
57	WEATHERING		L	5000.00 SqFt			

Sample Number: 345	Type: R	Area:	5000.00 SqFt	PCI: 90	
Sample Comments:					
48 L & T CR	L	35.00 Ft			
57 WEATHERING	L	5000.00 SqFt			
Sample Number: 352	Type: R	Area:	5000.00 SqFt	PCI: 92	
Sample Comments:					
48 L & T CR	L	3.00 Ft			
57 WEATHERING	L	5000.00 SqFt			
Sample Number: 355	Type: R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L	5000.00 SqFt			
Sample Number: 359	Type: R	Area:	5000.00 SqFt	PCI: 91	
Sample Comments:					
57 WEATHERING	L	5000.00 SqFt			
48 L & T CR	L	10.00 Ft			
Sample Number: 362	Type: R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L	5000.00 SqFt			
Sample Number: 366	Type: R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L	5000.00 SqFt			
Sample Number: 373	Type: R	Area:	5000.00 SqFt	PCI: 92	
Sample Comments:					
48 L & T CR	L	2.00 Ft			
57 WEATHERING	L	5000.00 SqFt			
Sample Number: 377	Type: R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L	5000.00 SqFt			
Sample Number: 380	Type: R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L	5000.00 SqFt			
Sample Number: 387	Type: R	Area:	5000.00 SqFt	PCI: 94	
Sample Comments:					
57 WEATHERING	L	5000.00 SqFt			
	Ľ	Soooloo Sqrt			

Network:	40J				Name:	PERRY-FOLEY	AIRPORT		
Branch:	RW 18-36		Name:	RUNWA	Y 18-36	Use:	RUNWAY	Area:	505,579 SqFt
Section: 6	5325	of	4 F	rom: -			To: -		Last Const.: 1/1/1945
Surface: F	PCC	Family:	C9N59-GA-RV	V-TW-PCC	Zone:		Category:		Rank: P
Area:	21,4	07 SqFt	Length:	-	260 Ft	Width:	100 Ft		
Slabs: 8	33	Slab Leng	gth:	25 Ft	Slab Widt	th:	13 Ft	Joint Leng	gth: 2,760 Ft
Shoulder:		Street Ty	pe:		Grade:	0		Lanes:	0
Section Con	nments:								
Work Date:	1/1/1945	Wo	ork Type: BUIL	T		С	ode: IMPORTED	Is Mai	or M&R: True
-	Pate: 2/8/2017			amples: 3		Surveye	ed: 1	· · · ·	
Last Insp. D Conditions:						Surveye	e d: 1		
-	PCI: 54					Surveye	s d: 1		
Conditions:	PCI: 54		TotalSa		ea:	Surveye	ed: 1 PCI: 54		
Conditions: Inspection C	PCI: 54 Comments: nber: 393	,	TotalSa	amples: 3	ea:				
Conditions: Inspection C Sample Nun Sample Con	PCI: 54 Comments: nber: 393	,	TotalSa	amples: 3					
Conditions: Inspection C Sample Nun Sample Con 74 JOIN	PCI: 54 Comments: nber: 393 nments:	,	TotalSa e: R	amples: 3	labs				
Conditions: Inspection C Sample Nun Sample Con 74 JOIN 75 JT SE	PCI: 54 Comments: nber: 393 nments: IT SPALL	,	TotalSa e: R L	amples: 3 Are 1.00 S	labs				
Conditions: Inspection C Sample Nun Sample Con 74 JOIN 55 JT SE 73 SHRJ	PCI: 54 Comments: nber: 393 nments: IT SPALL EAL DMG	,	TotalSa e: R L H	amples: 3 Are 1.00 S 24.00 S	labs labs labs				
Conditions: Inspection C Sample Nun Sample Con 74 JOIN 55 JT SE 73 SHRJ 53 LINE	PCI: 54 Comments: nber: 393 nments: IT SPALL EAL DMG INKAGE CR	,	TotalSa e: R L H N	amples: 3 Are 1.00 S 24.00 S 19.00 S	labs labs labs labs				

Network:	40J			Name	PERI	RY-FOLEY	AIRPORT		
Branch:	T-HANGAR		Name:	T-HANGAR TA	XILANE	Use:	TAXILANE	Area:	30,807 SqFt
Section:	4110	of 1	F	rom: -			To: -		Last Const.: 7/1/2009
Surface:	AC	Family: C9N	159-GA-TV	V-AC Zone:			Category:		Rank: P
Area:	30,80	07 SqFt	Length:	600 Ft		Width:	50 Ft		
Slabs:		Slab Length:		Ft S	lab Width:		Ft	Joint Leng	g th: Ft
Shoulder:		Street Type:		0	rade: 0			Lanes:	0
Section Co	omments:								
Work Date	e: 7/1/2009	Work T	ype: New	Construction - Initial		С	ode: NU-IN	Is Ma	jor M&R: True
Last Insp.	Date: 2/8/2017		TotalSa	amples: 7		Surveye	ed: 1		
Conditions	s: PCI: 90								
Inspection	Comments:								
Sample Nu	umber: 601	Type:	R	Area:	4600.	00 SqFt	PCI: 9	0	
Sample Co	omments:								
48 L&	έ T CR	I	Ĺ	13.00 Ft					
57 WE	EATHERING	I	L	4600.00 SqFt					

Network: 40J		Name:	PERRY-FOLEY	AIRPORT	
Branch: TW A & B	Name:	TAXIWAY A &	B Use:	TAXIWAY A	Area: 243,740 SqFt
Section: 105	of 2	From: -		То: -	Last Const.: 1/1/1995
Surface: AAC	Family: C9N59-GA- APC	ГW-AAC- Zone:		Category:	Rank: P
Area: 131,781	l SqFt Length	: 3,700 Ft	Width:	35 Ft	
Slabs:	Slab Length:	Ft S	lab Width:	Ft	Joint Length: Ft
Shoulder:	Street Type:	G	rade: 0		Lanes: 0
Section Comments:					
Work Date: 1/1/1940	Work Type: BU	ILT	С	ode: IMPORTED	Is Major M&R: True
Work Date: 1/1/1995	Work Type: MI	LL and OVERLAY	С	ode: ML-OV	Is Major M&R: True
Last Insp. Date: 2/8/2017	Tota	Samples: 37	Surveye	d: 5	
Conditions: PCI: 58					
Inspection Comments:					
Sample Number: 104	Type: R	Area:	3500.00 SqFt	PCI: 59	
Sample Comments:	* *			-	
52 RAVELING	М	25.00 SqFt			
48 L & T CR	M	20.00 Ft			
48 L & T CR	L	106.00 Ft			
52 RAVELING	L	3475.00 SqFt			
Sample Number: 112	Type: R	Area:	3500.00 SqFt	PCI: 54	
Sample Comments:					
52 RAVELING	М	20.00 SqFt			
48 L & T CR	М	12.00 Ft			
48 L & T CR	L	88.00 Ft			
52 RAVELING45 DEPRESSION	L L	3480.00 SqFt 36.00 SqFt			
Sample Number: 120	Type: R	Area:	3500.00 SqFt	PCI: 55	
Sample Comments:	Tipe. R	Aita.	5500.00 Bqi t	i Ci. 33	
-		• • • · -			
48 L & T CR	M	21.00 Ft			
48 L & T CR42 BLEEDING	L N	99.00 Ft 42.00 SqFt			
52 RAVELING	M	3.00 SqFt			
52 RAVELING	L	3497.00 SqFt			
Sample Number: 128	Type: R	Area:	3500.00 SqFt	PCI: 64	
Sample Comments:					
52 RAVELING	М	25.00 SqFt			
48 L & T CR	L	100.00 Ft			
52 RAVELING	L	3475.00 SqFt			
Sample Number: 136	Type: R	Area:	3500.00 SqFt	PCI: 59	
Sample Comments:					
48 L & T CR	М	6.00 Ft			
52 RAVELING	М	15.00 SqFt			
48 L & T CR	L	140.00 Ft			
52 RAVELING	L	3485.00 SqFt			
45 DEPRESSION	L	1.00 SqFt			

Network: 40J		Nan	ne: PERRY-FOLI	EY AIRPORT	
Branch: TW A & B	Na	me: TAXIWAY A	& B Use	: TAXIWAY	Area: 243,740 SqFt
Section: 110	of 2	From: -		То: -	Last Const.: 1/1/1995
Surface: AAC	Family: C9N59 APC	-GA-TW-AAC- Zon	e:	Category:	Rank: P
Area: 111,959	SqFt L	ength: 3,200 H	Ft Width:	35 Ft	
Slabs:	Slab Length:	Ft	Slab Width:	Ft	Joint Length: Ft
Shoulder:	Street Type:		Grade: 0		Lanes: 0
Section Comments:					
Work Date: 1/1/1940	Work Type	e: BUILT		Code: IMPORTED	Is Major M&R: True
Work Date: 1/1/1995	Work Type	e: MILL and OVERLAY		Code: ML-OV	Is Major M&R: True
Last Insp. Date: 2/8/2017		TotalSamples: 32	Surv	eyed: 5	
Conditions: PCI: 59					
Inspection Comments:					
Sample Number: 140	Туре:	R Area:	3500.00 SqFt	PCI: 59)
Sample Comments:	••		-		
52 RAVELING	М	5.00 SqFt			
48 L & T CR	L	68.00 Ft			
48 L&TCR	M	52.00 Ft			
52 RAVELING	L	3495.00 SqFt			
Sample Number: 144	Type:	R Area:	3500.00 SqFt	PCI: 59)
Sample Comments:					
48 L & T CR	М	60.00 Ft			
48 L & T CR	L	46.00 Ft			
52 RAVELING	L	3485.00 SqFt			
52 RAVELING	М	15.00 SqFt			
Sample Number: 148	Type:	R Area:	2975.00 SqFt	PCI: 60)
Sample Comments:					
52 RAVELING	М	3.00 SqFt			
48 L & T CR	M	5.00 Ft			
48 L & T CR	L	80.00 Ft			
52 RAVELING	L	2972.00 SqFt			
Sample Number: 156	Type:	R Area:	3500.00 SqFt	PCI: 59)
Sample Comments:					
52 RAVELING	М	5.00 SqFt			
48 L & T CR	M	7.00 Ft			
48 L & T CR	L	94.00 Ft			
52 RAVELING	L	3495.00 SqFt			
Sample Number: 164	Type:	R Area:	3500.00 SqFt	PCI: 60)
Sample Comments:					
52 RAVELING	М	10.00 SqFt			
48 L & T CR	M	4.00 Ft			
48 L & T CR	L	96.00 Ft			
52 RAVELING	L	3490.00 SqFt			

Network: 40J		Nan	ne: PERRY-FOLE	EY AIRPORT	
Branch: TW C	Name:	TAXIWAY C	C Use	: TAXIWAY	Area: 215,609 SqFt
Section: 205	of 3	From: -		То: -	Last Const.: 1/1/1995
Surface: AAC	Family: C9N59-GA	-TW-AAC- Zon	ie:	Category:	Rank: P
	APC	-	_		
	8 SqFt Lengt			35 Ft	
Slabs:	Slab Length:	Ft	Slab Width:	Ft	Joint Length: Ft
Shoulder:	Street Type:		Grade: 0		Lanes: 0
Section Comments:					
Work Date: 1/1/1940	Work Type: B	UILT		Code: IMPORTED	Is Major M&R: True
Work Date: 1/1/1995	Work Type: M	IILL and OVERLAY		Code: ML-OV	Is Major M&R: True
Last Insp. Date: 2/8/2017	Tot	alSamples: 42	Surve	eyed: 5	
Conditions: PCI: 56					
Inspection Comments:					
Sample Number: 103	Type: R	Area:	3500.00 SqFt	PCI: 59)
Sample Comments:	* J P~-			•	
48 L & T CR	М	20.00 Ft			
48 L & T CR	L	80.00 Ft			
52 RAVELING	L	3400.00 SqFt			
52 RAVELING	М	100.00 SqFt			
Sample Number: 111	Type: R	Area:	3500.00 SqFt	PCI: 58	3
Sample Comments:					
48 L & T CR	М	100.00 Ft			
52 RAVELING	L	3000.00 SqFt			
52 RAVELING	М	500.00 SqFt			
Sample Number: 119	Type: R	Area:	3500.00 SqFt	PCI: 53	3
Sample Comments:					
48 L & T CR	L	2.00 Ft			
48 L & T CR	M	100.00 Ft			
52 RAVELING	L	2500.00 SqFt			
52 RAVELING	М	1000.00 SqFt			
Sample Number: 127	Type: R	Area:	3500.00 SqFt	PCI: 54	4
Sample Comments:					
48 L & T CR	L	17.00 Ft			
48 L & T CR	M	100.00 Ft			
52 RAVELING	L	2700.00 SqFt			
52 RAVELING	М	800.00 SqFt			
Sample Number: 135	Type: R	Area:	3500.00 SqFt	PCI: 56	<u>5</u>
Sample Comments:					
48 L & T CR	М	100.00 Ft			
52 RAVELING	L	2800.00 SqFt			
52 RAVELING	М	700.00 SqFt			

Network: 40J		Name	PERRY-FOLEY	AIRPORT		
Branch: TW C	Name:	TAXIWAY C	Use:	TAXIWAY	Area:	215,609 SqFt
Section: 210	of 3	From: -		То: -		Last Const.: 1/1/1995
Surface: AC	Family: C9N59-GA-	TW-AC Zone:		Category:		Rank: P
Area: 57,79	1 SqFt Length	: 1,500 Ft	Width:	35 Ft		
Slabs:	Slab Length:	Ft S	lab Width:	Ft	Joint L	ength: Ft
Shoulder:	Street Type:	(Grade: 0		Lanes:	0
Section Comments:						
Work Date: 1/1/1995	Work Type: BU	UILT	С	ode: IMPORTED	Isl	Major M&R: True
Last Insp. Date: 2/8/2017	Tota	ISamples: 15	Surveye	e d: 3		
Conditions: PCI: 59						
Inspection Comments:						
Sample Number: 144	Type: R	Area:	3500.00 SqFt	PCI: 59		
Sample Comments:						
48 L & T CR	М	7.00 Ft				
48 L & T CR	L	80.00 Ft				
52 RAVELING	L	3450.00 SqFt				
52 RAVELING	М	50.00 SqFt				
Sample Number: 148	Type: R	Area:	3500.00 SqFt	PCI: 59		
Sample Comments:						
48 L & T CR	М	35.00 Ft				
48 L & T CR	L	76.00 Ft				
52 RAVELING	L	3400.00 SqFt				
52 RAVELING	М	100.00 SqFt				
Sample Number: 154	Type: R	Area:	3500.00 SqFt	PCI: 59		
Sample Comments:						
48 L & T CR	М	10.00 Ft				
48 L & T CR	L	90.00 Ft				
52 RAVELING	L	3400.00 SqFt				
52 RAVELING	М	100.00 SqFt				

Network: 40J			Name:	PERRY-FOLE	Y AIRPORT		
Branch: TW C		Name:	TAXIWAY C	Use:	TAXIWAY	Area:	215,609 SqFt
Section: 215	to	f 3 I	From: -		То: -		Last Const.: 1/1/1945
Surface: AC	Family:	C9N59-GA-TV	W-AC Zone:		Category:		Rank: P
Area:	5,000 SqFt	Length:	200 Ft	Width:	25 Ft		
Slabs:	Slab Len	gth:	Ft S	lab Width:	Ft	Joint Length	: Ft
Shoulder:	Street Ty	ype:	G	Grade: 0		Lanes: 0	
Section Comments:							
Work Date: 1/1/1945	W	ork Type: New	Construction - Initial	i	Code: NU-IN	Is Major	M&R: True
Last Insp. Date: 2/8/2		TotalS	amples: 2	Survey	red: 1		
Conditions: PCI:	22						
Inspection Comments:							
		pe: R	Area:	2500.00 SqFt	PCI: 2	2	
Sample Number: 14		De: R	Area:	2500.00 SqFt	PCI: 2	2	
Sample Number: 14		pe: R M	Area: 800.00 SqFt	2500.00 SqFt	PCI: 2	2	
Sample Number: 141 Sample Comments: 52 RAVELING				2500.00 SqFt	PCI: 2	2	
Sample Number: 141 Sample Comments: 52 RAVELING 50 PATCHING		М	800.00 SqFt	2500.00 SqFt	PCI: 2	2	
Sample Number: 141 Sample Comments: 52 RAVELING 50 PATCHING 43 BLOCK CR	Тур	M L	800.00 SqFt 262.00 SqFt	2500.00 SqFt	PCI: 2	2	
50 PATCHING 43 BLOCK CR	Typ	M L M	800.00 SqFt 262.00 SqFt 2209.00 SqFt	2500.00 SqFt	PCI: 2	2	