FLORIDA DEPARTMENT OF TRANSPORTATION

AVIATION AND SPACEPORTS OFFICE







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
EYW	RUNWAY 9-27	RUNWAY	6105	312,000	100	Good
EYW	RUNWAY 9-27	RUNWAY	6110	168,000	100	Good
EYW	TAXIWAY A	TAXIWAY	105	184,302	42	Poor
EYW	TAXIWAY A	TAXIWAY	110	57,310	42	Poor
EYW	TAXIWAY A10	TAXIWAY	165	2,531	61	Fair
EYW	TAXIWAY A11	TAXIWAY	170	2,633	43	Poor
EYW	TAXIWAY A11	TAXIWAY	172	1,525	100	Good
EYW	TAXIWAY A7	TAXIWAY	150	1,991	88	Good
EYW	TAXIWAY A8	TAXIWAY	155	1,992	88	Good
EYW	TAXIWAY A9	TAXIWAY	160	4,194	100	Good
EYW	TAXIWAY B	TAXIWAY	205	19,096	100	Good
EYW	TAXIWAY B	TAXIWAY	210	20,821	46	Poor
EYW	TAXIWAY C	TAXIWAY	305	9,642	100	Good
EYW	TAXIWAY C	TAXIWAY	310	10,524	51	Poor
EYW	TAXIWAY D	TAXIWAY	505	9,324	100	Good
EYW	TAXIWAY D	TAXIWAY	510	16,297	43	Poor
EYW	TAXIWAY E	TAXIWAY	605	16,396	100	Good
EYW	TAXIWAY E	TAXIWAY	610	37,891	50	Poor
EYW	EAST APRON	APRON	4105	34,810	47	Poor
EYW	EAST APRON	APRON	4130	37,772	42	Poor
EYW	EAST APRON	APRON	4145	145,771	44	Poor
EYW	EAST APRON	APRON	4150	16,824	35	Very Poor
EYW	EAST APRON	APRON	4155	51,364	58	Fair
EYW	EAST APRON	APRON	4160	370,379	100	Good
EYW	WEST APRON	APRON	4205	162,131	55	Poor
EYW	WEST APRON	APRON	4215	60,960	58	Fair
EYW	WEST APRON	APRON	4220	13,765	62	Fair





Forecasted Pavement Condition Index 2020-2029

Table E-2 Pavement Condition Index Forecast 2020-2029

Network	Dunnah ID	Section	Last	Forecasted PCI									
ID	Branch ID	ID	PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EYW	AP E	4105	47	45	41	37	33	29	27	26	23	21	18
EYW	AP E	4130	42	40	36	32	28	26	25	23	20	18	15
EYW	AP E	4145	44	42	38	34	30	27	26	24	21	19	17
EYW	AP E	4150	35	34	32	31	29	28	26	24	23	21	20
EYW	AP E	4155	58	57	55	53	50	46	42	38	34	30	27
EYW	AP E	4160	100	95	92	89	86	83	80	78	75	72	70
EYW	AP W	4205	55	54	52	51	49	48	46	44	43	41	40
EYW	AP W	4215	58	57	55	53	50	46	42	38	34	30	27
EYW	AP W	4220	62	61	59	58	56	55	53	51	50	48	47
EYW	RW 9-27	6105	100	96	93	90	87	84	82	80	79	78	76
EYW	RW 9-27	6110	100	96	93	90	87	84	82	80	79	78	76
EYW	TW A	105	42	41	39	37	34	32	28	25	21	17	13
EYW	TW A	110	42	41	39	37	34	32	28	25	21	17	13
EYW	TW A10	165	61	60	57	55	52	50	47	45	42	39	37
EYW	TW A11	170	43	42	40	39	37	36	34	32	31	29	28
EYW	TW A11	172	100	98	96	94	93	91	90	88	86	85	83
EYW	TW A7	150	88	87	87	86	85	84	83	82	81	80	79
EYW	TW A8	155	88	87	87	86	85	84	83	82	81	80	79
EYW	TW A9	160	100	97	96	95	94	93	92	92	91	91	91
EYW	TW B	205	100	95	92	89	87	84	82	80	77	75	73
EYW	TW B	210	46	45	44	42	40	38	36	33	31	28	24
EYW	TW C	305	100	95	92	89	87	84	82	80	77	75	73
EYW	TW C	310	51	50	49	49	48	47	46	44	43	41	39
EYW	TW D	505	100	95	92	89	87	84	82	80	77	75	73
EYW	TW D	510	43	42	40	38	36	33	30	27	24	20	16
EYW	TW E	605	100	95	92	89	87	84	82	80	77	75	73
EYW	TW E	610	50	49	48	47	46	45	44	42	40	38	36





Major Rehabilitation Planning 2020-2029

Table E-3 Major Rehabilitation Planning 2020-2029

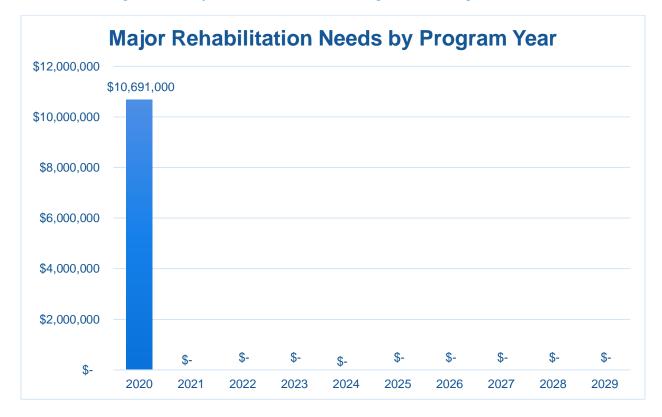
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2020	EYW	AP E	4105	AAC	34,810	45	AC Restoration	\$ 431,000.00
2020	EYW	AP E	4130	AAC	37,772	40	AC Restoration	\$ 526,000.00
2020	EYW	AP E	4145	AAC	145,771	42	AC Restoration	\$ 1,941,000.00
2020	EYW	AP E	4150	AC	16,824	34	AC Reconstruction	\$ 236,000.00
2020	EYW	AP E	4155	AAC	51,364	57	AC Restoration	\$ 565,000.00
2020	EYW	AP W	4205	AC	162,131	54	AC Restoration	\$ 1,784,000.00
2020	EYW	AP W	4215	AC	60,960	57	AC Restoration	\$ 671,000.00
2020	EYW	AP W	4220	AC	13,765	61	AC Restoration	\$ 152,000.00
2020	EYW	TW A	105	AAC	184,302	41	AC Restoration	\$ 2,512,000.00
2020	EYW	TW A	110	AAC	57,310	41	AC Restoration	\$ 781,000.00
2020	EYW	TW A10	165	PCC	2,531	60	PCC Restoration	\$ 44,000.00
2020	EYW	TW A11	170	AC	2,633	42	AC Restoration	\$ 36,000.00
2020	EYW	TW B	210	AAC	20,821	45	AC Restoration	\$ 258,000.00
2020	EYW	TW C	310	AAC	10,524	50	AC Restoration	\$ 116,000.00
2020	EYW	TW D	510	AAC	16,297	42	AC Restoration	\$ 217,000.00
2020	EYW	TW E	610	AAC	37,891	49	AC Restoration	\$ 421,000.00

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





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



Summary of Key West International Airport

Key West International Airport was inspected in July of 2019 – the overall weighted PCI value was 74, a condition rating of Satisfactory. The results of the maintenance, repair, and major rehabilitation analysis identified \$981,780 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$10,691,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$10,691,000 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.





2019





Chapter 1 – Introduction

1.1 Background

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

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

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

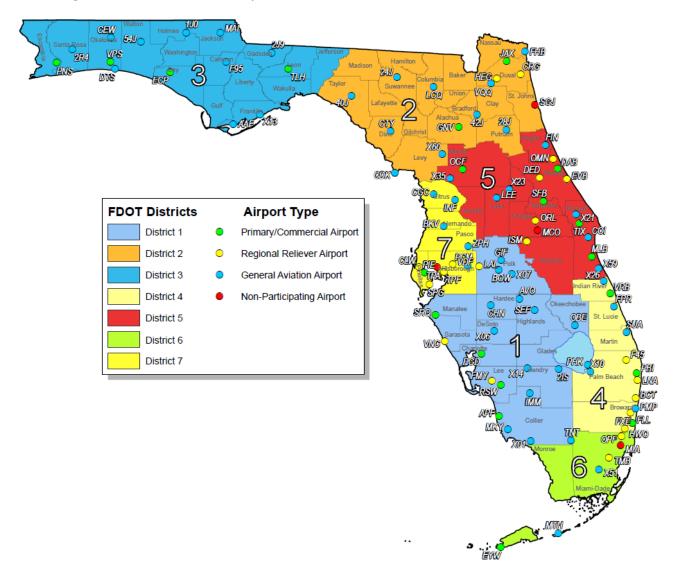
The SAPMP addresses the requirements of maintaining an effective pavement management program for the participating airports at the network level. Network-level management of pavement assets provides insight for short-term and long-term budget needs, understanding of the overall condition of the network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

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

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



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



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





1.3 Organization

1.3.1 Florida Department of Transportation Aviation and Spaceports Office Program Manager

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

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

1.3.2 Participating Florida Public-Use and Publicly Owned Airports

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

1.3.3 Florida Department of Transportation District Offices

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

1.3.4 Consultant

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

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





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

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

2019





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

The objectives are accomplished by the following components:

1.7.2 Program Components

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





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

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

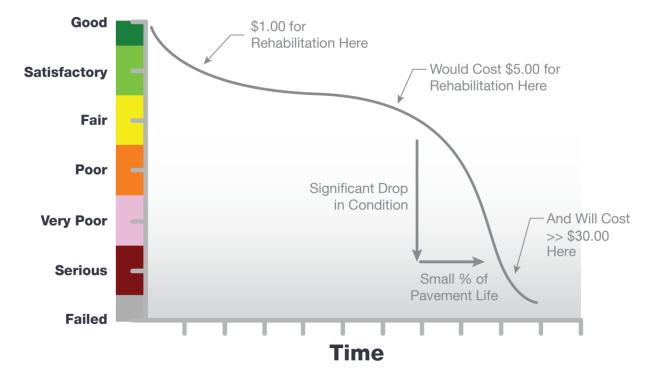


Figure 1.7.2 (a) Typical Pavement Condition Life Cycle

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

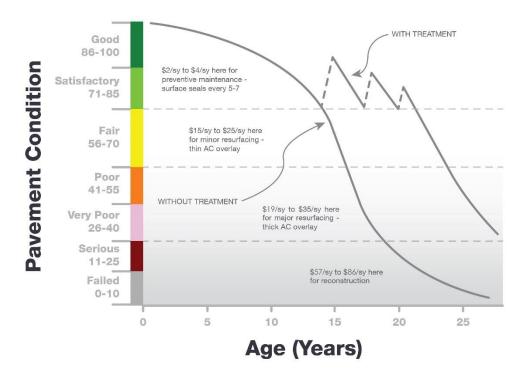
Figure 1.7.2 (b) General Pavement Treatments by Condition Range depicts generic flexible asphalt concrete (AC) pavement treatments that are effective at specific condition ranges. This graphic is a general concept and will vary based on pavement surface type and overall





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

Figure 1.7.2 (b) General Pavement Treatments by Condition Range



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

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





Figures 1.7.2 (c) Flexible Asphalt Concrete

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

Figures 1.7.2 (d) Rigid Portland Cement Concrete

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





1.8 References

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

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



Chapter 2





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 PAVERTM (formerly MicroPAVERTM); 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 PAVERTM 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 PAVERTM version 6.5 to a version 7.0.

2.2 Airfield Pavement System Inventory

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

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





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

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

2.2.1 Pavement Management Program Network Definition Terminology

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

Pavement Network

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

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

Pavement Branch

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

Pavement Section

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





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

Pavement Sample Unit

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

Table 2.2.1 Airfield Pavement Database Network Definition Terminology

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"





2.3 Airfield Pavement Structure

2.3.1 Pavement Structure Types

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

Flexible Asphalt Concrete Surface

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

Asphalt Concrete (AC)

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

Asphalt Concrete Overlaid on Asphalt Concrete (AAC)

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

Asphalt Concrete Overlaid on Portland Cement Concrete (APC)

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





Rigid Portland Cement Concrete Surface

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

Portland Cement Concrete (PCC)

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

Composite Structure – Whitetopping Pavement

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

Conventional Whitetopping (WHT)

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

Thin Whitetopping (TWT)

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

Ultra-Thin Whitetopping (UTW)

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





2.4 Airfield Pavement Work History

2.4.1 Airfield Pavement Record Keeping

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

- 1. Location and Limits of Work.
- 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

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





2.6.2 Pavement Distress Types

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

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

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





Table 2.6.2 (b) Pavement Distresses Possible Causes - Flexible Asphalt Concrete-Surfaced Airfields

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 (c) Pavement Distresses Possible Effects - Flexible Asphalt Concrete-Surfaced Air fields

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

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





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

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

Table 2.6.2 (f) Pavement Distresses Possible Effects - Rigid Portland Cement Concrete-Surfaced Airfields

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





2.6.3 PCI Survey Inspection Procedures

Inspection Sampling Rate

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

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

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

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

Number of Total Sample Units in	Sample Units to Inspect						
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 changes to the ASTM D5340 (version D5340-12) resulted in adjusted pavement condition indices on pavement sections subject to the distress types updated. Furthermore, the revision of the PCI deduction curves and the separation of distress types from the original, such as Weathering and Raveling, have in select cases increased the PCI value of the section without any rehabilitation performed.

Flexible Asphalt Concrete Pavement Distress Updates

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

Rigid Portland Cement Concrete Pavement Distress Updates

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





Table 2.6.4 Summary of Updates to ASTM D5340-12

Use and	Updated Distress	Former Distress in Prior to	Deduction	Potential Effect	
Surface Type		5340-10	Curve		
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'	



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 (a) and Figure 3.1.1 (b) provides an inset view of the 2019 Airfield Pavement Network Definition Exhibit and the 2019 Airfield Pavement System Inventory Exhibits that depict the updated network details for the airport reflected in the PAVER Database. Large format exhibits are referenced in **Appendix C Technical Exhibits**.

Table 3.1.1 Previous and/or Anticipated Airfield Pavement Construction

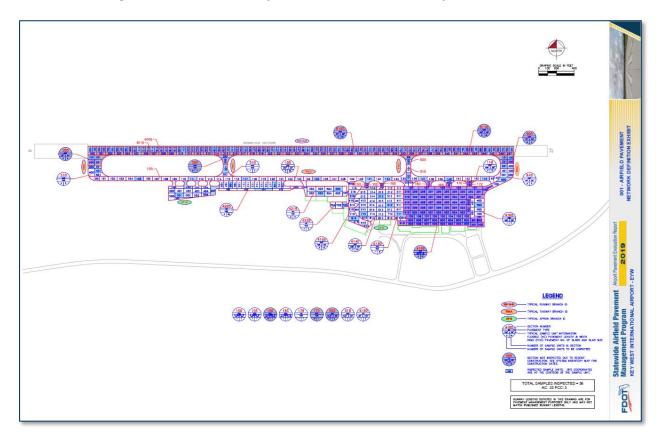
Year	General Work Description
2014	TW A7, TW A8, TW A9, TW A10 - Reconstruction
2049	RW 9-27, TW B, TW C, TW D, TW E - Mill and Overlay
2018	AP E, TW A9, TW A11 - Reconstruction

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.





Figure 3.1.1 (a) 2019 Airfield Pavement Network Definition Exhibit

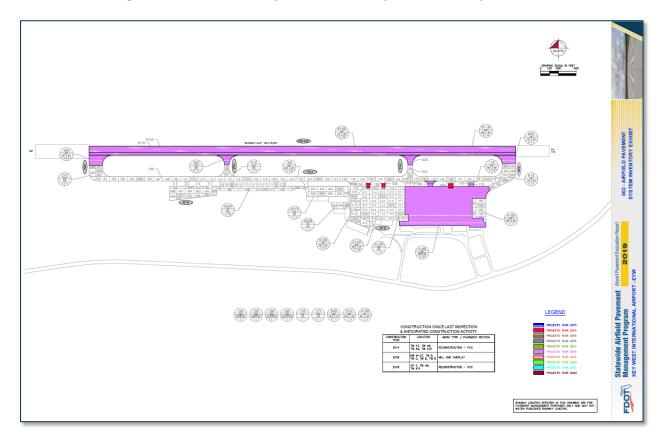


The Airfield Pavement Network Definition Exhibit provides details to the PCI Survey inspection efforts. The exhibit identifies the pavement facilities, surface type, section definition, and sample unit delineation.





Figure 3.1.1 (b) 2019 Airfield Pavement System Inventory Exhibit



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

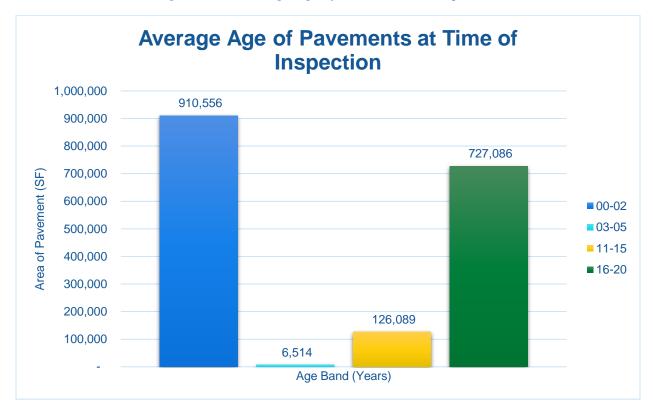
3.1.2 Estimated Pavement Age

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





Figure 3.1.2 Average Age of Pavements at Inspection



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

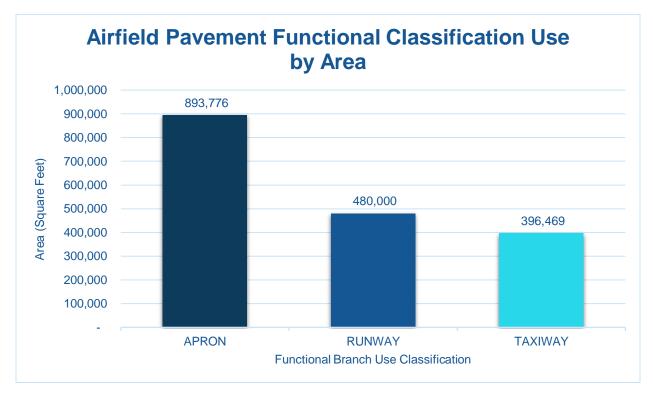




3.1.3 Functional Use Classification

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

Figure 3.1.3 Airfield Pavement Functional Classification Use by Area







3.1.4 Pavement Surface Type

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

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

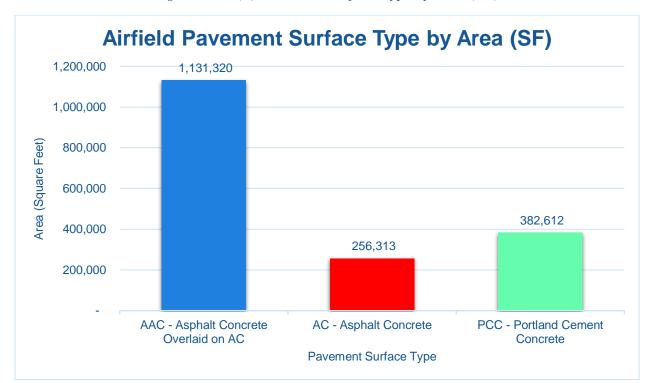
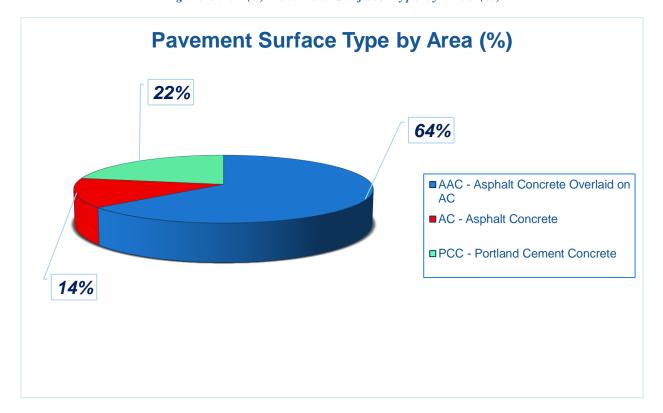


Figure 3.1.4 (a) Pavement Surface Type by Area (SF)





Figure 3.1.4 (b) Pavement Surface Type by Area (%)



3.1.5 Pavement System Inventory Details

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

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





Table 3.1.5 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
EYW	EAST APRON	AP E	APRON	4105	153	220	34,810	AAC	1/1/2003
EYW	EAST APRON	AP E	APRON	4130	375	100	37,772	AAC	1/1/2003
EYW	EAST APRON	AP E	APRON	4145	430	338	145,771	AAC	1/1/2003
EYW	EAST APRON	AP E	APRON	4150	38	478	16,824	AC	1/1/2003
EYW	EAST APRON	AP E	APRON	4155	685	75	51,364	AAC	1/1/2005
EYW	EAST APRON	AP E	APRON	4160	493	911	370,379	PCC	10/1/2018
EYW	WEST APRON	AP W	APRON	4205	1,325	120	162,131	AC	1/1/2003
EYW	WEST APRON	AP W	APRON	4215	635	100	60,960	AC	1/1/2006
EYW	WEST APRON	AP W	APRON	4220	209	65	13,765	AC	1/1/2005
EYW	RUNWAY 9-27	RW 9-27	RUNWAY	6105	4,800	65	312,000	AAC	4/1/2018
EYW	RUNWAY 9-27	RW 9-27	RUNWAY	6110	4,800	35	168,000	AAC	4/1/2018
EYW	TAXIWAY A	TW A	TAXIWAY	105	3,575	50	184,302	AAC	1/1/2003
EYW	TAXIWAY A	TW A	TAXIWAY	110	1,100	50	57,310	AAC	1/11/2003
EYW	TAXIWAY A10	TW A10	TAXIWAY	165	120	50	2,531	PCC	1/1/2014
EYW	TAXIWAY A11	TW A11	TAXIWAY	170	32	55	2,633	AC	1/1/2003
EYW	TAXIWAY A11	TW A11	TAXIWAY	172	30	50	1,525	PCC	10/1/2018
EYW	TAXIWAY A7	TW A7	TAXIWAY	150	120	36	1,991	PCC	1/1/2014
EYW	TAXIWAY A8	TW A8	TAXIWAY	155	120	36	1,992	PCC	1/1/2014
EYW	TAXIWAY A9	TW A9	TAXIWAY	160	35	50	4,194	PCC	10/1/2018
EYW	TAXIWAY B	TW B	TAXIWAY	205	113	150	19,096	AAC	4/1/2018
EYW	TAXIWAY B	TW B	TAXIWAY	210	127	150	20,821	AAC	1/1/2003
EYW	TAXIWAY C	TW C	TAXIWAY	305	107	50	9,642	AAC	4/1/2018
EYW	TAXIWAY C	TW C	TAXIWAY	310	133	50	10,524	AAC	1/1/2003
EYW	TAXIWAY D	TW D	TAXIWAY	505	109	50	9,324	AAC	4/1/2018
EYW	TAXIWAY D	TW D	TAXIWAY	510	243	50	16,297	AAC	1/1/2003

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

2019

Key West International Airport (EYW)





Netwo ID		Branch Name	Branch ID	Branch Use	Section Length ID (FT)		Width (FT)	Area (SE)		Est. Last Construction Date
EYV	V	TAXIWAY E	TW E	TAXIWAY	605	95	150	16,396	AAC	4/1/2018
EYV	٧	TAXIWAY E	TW E	TAXIWAY	610	187	150	37,891	AAC	1/1/2003





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Chapter 4





Chapter 4 – Airfield Pavement Condition

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

4.1 Airfield Pavement Condition Index (Latest Inspection)

4.1.1 Network-Level Analysis

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

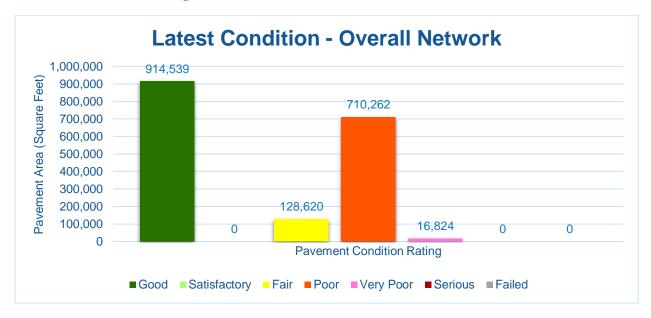


Figure 4.1.1 Latest Condition - Overall Network

4.1.2 Branch-Level Analysis

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





Figure 4.1.2 (a) Latest Condition - Runway Pavements

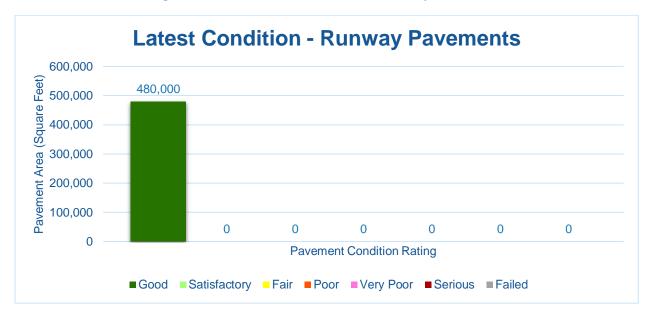


Figure 4.1.2 (b) Latest Condition - Taxiway Pavements

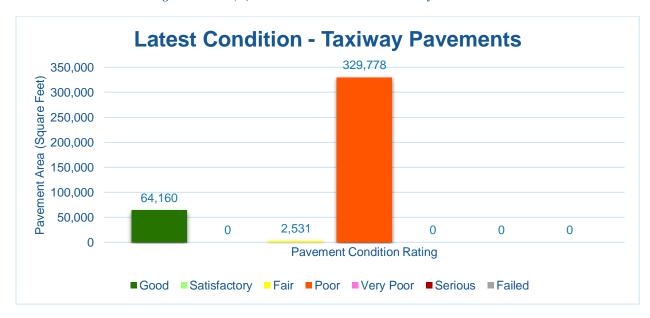
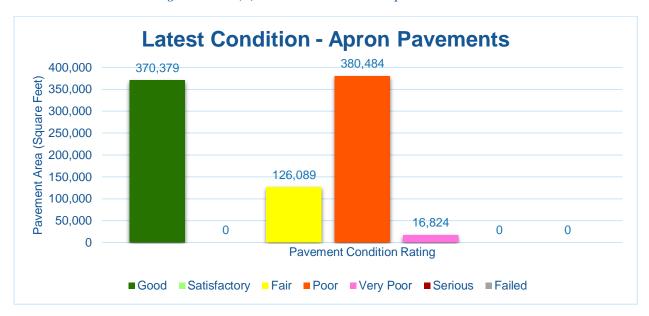




Figure 4.1.2 (c) Latest Condition - Apron Pavements



4.1.3 Section-Level Analysis

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

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





Table 4.1.3 Latest Pavement Condition Index Summary

Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI % Climate	PCI % Load	PCI % Other	Sample Units Inspected	Total Sample Units in Section
EYW	AP E	EAST APRON	APRON	4105	34,810	AAC	47	Poor	80%	0%	20%	1	7
EYW	AP E	EAST APRON	APRON	4130	37,772	AAC	42	Poor	92%	0%	8%	1	8
EYW	AP E	EAST APRON	APRON	4145	145,771	AAC	44	Poor	86%	0%	14%	3	30
EYW	AP E	EAST APRON	APRON	4150	16,824	AC	35	Very Poor	75%	8%	17%	1	4
EYW	AP E	EAST APRON	APRON	4155	51,364	AAC	58	Fair	52%	21%	27%	2	12
EYW	AP E	EAST APRON	APRON	4160	370,379	PCC	100	Good	0%	0%	0%	0	81
EYW	AP W	WEST APRON	APRON	4205	162,131	AC	55	Poor	67%	25%	8%	6	35
EYW	AP W	WEST APRON	APRON	4215	60,960	AC	58	Fair	51%	26%	23%	2	11
EYW	AP W	WEST APRON	APRON	4220	13,765	AC	62	Fair	80%	0%	20%	1	3
EYW	RW 9-27	RUNWAY 9-27	RUNWAY	6105	312,000	AAC	100	Good	0%	0%	0%	0	96
EYW	RW 9-27	RUNWAY 9-27	RUNWAY	6110	168,000	AAC	100	Good	0%	0%	0%	0	48
EYW	TW A	TAXIWAY A	TAXIWAY	105	184,302	AAC	42	Poor	37%	62%	1%	6	36
EYW	TW A	TAXIWAY A	TAXIWAY	110	57,310	AAC	42	Poor	42%	58%	0%	3	12
EYW	TW A10	TAXIWAY A10	TAXIWAY	165	2,531	PCC	61	Fair	21%	23%	56%	1	1
EYW	TW A11	TAXIWAY A11	TAXIWAY	170	2,633	AC	43	Poor	64%	0%	36%	1	1
EYW	TW A11	TAXIWAY A11	TAXIWAY	172	1,525	PCC	100	Good	0%	0%	0%	0	1
EYW	TW A7	TAXIWAY A7	TAXIWAY	150	1,991	PCC	88	Good	100%	0%	0%	1	1
EYW	TW A8	TAXIWAY A8	TAXIWAY	155	1,992	PCC	88	Good	100%	0%	0%	1	1
EYW	TW A9	TAXIWAY A9	TAXIWAY	160	4,194	PCC	100	Good	0%	0%	0%	0	1
EYW	TW B	TAXIWAY B	TAXIWAY	205	19,096	AAC	100	Good	0%	0%	0%	0	4
EYW	TW B	TAXIWAY B	TAXIWAY	210	20,821	AAC	46	Poor	49%	44%	7%	2	5
EYW	TW C	TAXIWAY C	TAXIWAY	305	9,642	AAC	100	Good	0%	0%	0%	0	2
EYW	TW C	TAXIWAY C	TAXIWAY	310	10,524	AAC	51	Poor	100%	0%	0%	1	2
EYW	TW D	TAXIWAY D	TAXIWAY	505	9,324	AAC	100	Good	0%	0%	0%	0	2
EYW	TW D	TAXIWAY D	TAXIWAY	510	16,297	AAC	43	Poor	60%	40%	0%	1	4
EYW	TW E	TAXIWAY E	TAXIWAY	605	16,396	AAC	100	Good	0%	0%	0%	0	4
EYW	TW E	TAXIWAY E	TAXIWAY	610	37,891	AAC	50	Poor	66%	24%	10%	2	9

Airport Pavement

Evaluation Report





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

Figure 4.1.3 2019 Airfield Pavement Condition Index Exhibit







4.2 Summary of Pavement Condition Evaluation Results

4.2.1 Network-Level Observations

The field PCI Survey performed at Key West International Airport (EYW) was completed in July of 2019. The resulting overall area-weighted average PCI value was 74 representing a condition rating of Satisfactory. Key West International Airport is serviced by one runway; Runway 9-27 is 100-ft wide and 5,076-ft long. Runway 9-27, portions of Taxiway B, portions of Taxiway C, portions of Taxiway D, portions of Taxiway E, and portions of the East Apron were not inspected due to recent construction. The PCI has been set to 100, a condition rating of Good.

Based on the FAA 5010 Report as of 9/12/2019 the Airport has reported 55,390 operations for 12 months ending 12/31/2018.

4.2.2 Branch-Level Observations

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

Taxiway A

Taxiway A consists of 2 sections constructed of AAC. The last construction year for Taxiway A was 2003. The area-weighted average PCI for Taxiway A is 42 representing a Poor condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed on Taxiway A consist of Alligator Cracking, Bleeding, Longitudinal & Transverse Cracking, Patching, Raveling, Rutting, Swelling, and Weathering.

East Apron

The East Apron consists of 6 sections constructed of AC, AAC, and PCC. The last construction years range from 2003 to 2018. The area-weighted average PCI for the East Apron is 76 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed on the East Apron consist of Alligator Cracking, Bleeding, Block Cracking, Depression, Longitudinal & Transverse Cracking, Oil Spillage, Patching, Raveling, Rutting, Slippage Cracking, Swelling, and Weathering.

West Apron

The West Apron consists of 3 sections constructed of AC. The last construction years range from 2003 to 2006. The area-weighted average PCI for the West Apron is 56 representing a Fair condition rating. The pavement distresses observed were related to Climate, Load, and Other distress classifications. Distresses observed on the West Apron consist of Alligator Cracking, Bleeding, Depression, Longitudinal & Transverse Cracking, Oil Spillage, Patching, Raveling, Rutting, and Weathering.





Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Area-Weighted Average PCI	Condition Rating
Runway	100	Good
Taxiway	52	Poor
Apron	71	Satisfactory





4.3 Forecasted Pavement Conditions

4.3.1 Performance Models and Prediction Curves

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

4.3.2 Branch-Level Pavement Condition Forecast

The following Figures 4.3.2 (a) through (c) depict the branch-level pavement condition forecast by Branch Use (Runway, Taxiway, and/or Apron). The forecasted conditions are for a 10-year duration starting in January 2020 through January 2029.

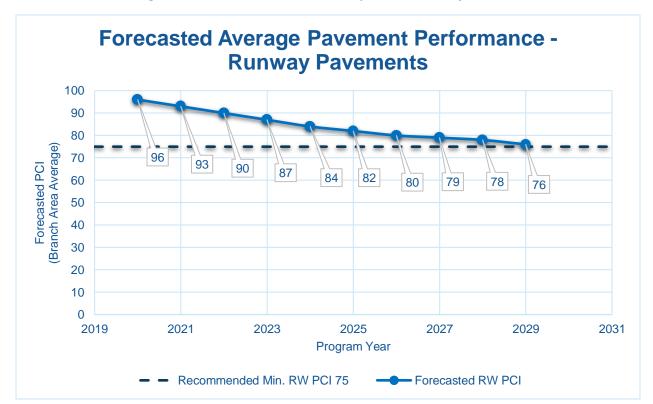


Figure 4.3.2 (a) Forecasted Runway Pavement Performance





Figure 4.3.2 (b) Forecasted Taxiway Pavement Performance

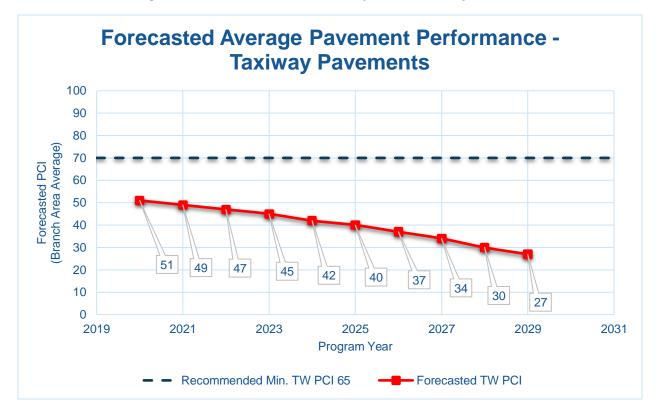
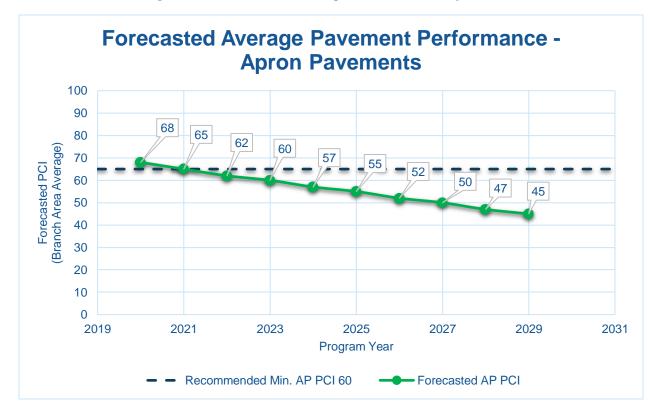


Figure 4.3.2 (c) Forecasted Apron Pavement Performance







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.





Table 4.3.3 Forecasted PCI 2020-2029

Network	Daniel ID	Section	Last PCI					Forecas	sted PCI				
ID	Branch ID	ID	Lasi FCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EYW	AP E	4105	47	45	41	37	33	29	27	26	23	21	18
EYW	AP E	4130	42	40	36	32	28	26	25	23	20	18	15
EYW	AP E	4145	44	42	38	34	30	27	26	24	21	19	17
EYW	AP E	4150	35	34	32	31	29	28	26	24	23	21	20
EYW	AP E	4155	58	57	55	53	50	46	42	38	34	30	27
EYW	AP E	4160	100	95	92	89	86	83	80	78	75	72	70
EYW	AP W	4205	55	54	52	51	49	48	46	44	43	41	40
EYW	AP W	4215	58	57	55	53	50	46	42	38	34	30	27
EYW	AP W	4220	62	61	59	58	56	55	53	51	50	48	47
EYW	RW 9-27	6105	100	96	93	90	87	84	82	80	79	78	76
EYW	RW 9-27	6110	100	96	93	90	87	84	82	80	79	78	76
EYW	TW A	105	42	41	39	37	34	32	28	25	21	17	13
EYW	TW A	110	42	41	39	37	34	32	28	25	21	17	13
EYW	TW A10	165	61	60	57	55	52	50	47	45	42	39	37
EYW	TW A11	170	43	42	40	39	37	36	34	32	31	29	28
EYW	TW A11	172	100	98	96	94	93	91	90	88	86	85	83
EYW	TW A7	150	88	87	87	86	85	84	83	82	81	80	79
EYW	TW A8	155	88	87	87	86	85	84	83	82	81	80	79
EYW	TW A9	160	100	97	96	95	94	93	92	92	91	91	91
EYW	TW B	205	100	95	92	89	87	84	82	80	77	75	73
EYW	TW B	210	46	45	44	42	40	38	36	33	31	28	24
EYW	TW C	305	100	95	92	89	87	84	82	80	77	75	73
EYW	TW C	310	51	50	49	49	48	47	46	44	43	41	39
EYW	TW D	505	100	95	92	89	87	84	82	80	77	75	73
EYW	TW D	510	43	42	40	38	36	33	30	27	24	20	16

Statewide Airfield Pavement Management Program Airport Pavement Evaluation Report

2019

Key West International Airport (EYW)





Network	Branch ID	Section L	Loot DCI	Forecasted PCI									
ID	Branch ID		Last PCI -	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EYW	TW E	605	100	95	92	89	87	84	82	80	77	75	73
EYW	TW E	610	50	49	48	47	46	45	44	42	40	38	36





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.









Chapter 5 - Localized Maintenance and Repair Planning

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

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

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

5.1 Localized Maintenance and Repair

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

Localized Stopgap/Safety Maintenance and Repair

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

Localized Preventive Maintenance and Repair

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





5.2 Localized Maintenance and Repair Policy

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

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

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

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





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

Table 5.2 (b) Localized Maintenance and Repair - Rigid Portland Cement Concrete

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





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



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

Code	Name	Cost	Units
FDOT-SS-LO	FDOT - SURFACE SEAL	\$0.55	SqFt
FDOT-ML-AC	FDOT - MILLING - AC	\$2.00	SqFt
FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	\$2.00	Ft
FDOT-CS-AC	FDOT - CRACK SEALING - AC	\$3.00	Ft
FDOT-MO-PV	FDOT - MONITOR	\$0.00	SqFt
FDOT-PA-AF	FDOT - PATCHING - AC FULL DEPTH	\$12.50	SqFt
FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	\$5.50	SqFt

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

Code	Name	Cost	Units
FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	\$185.00	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 (a)** summarizes the anticipated Localized Maintenance and Repair efforts based on the PCI Survey Inspection efforts performed at this airport as part of this SAPMP System Update. The following table depicts planning-level costs rounded to the nearest ten dollars.

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

Work Description	Work Category	Rough Estimate of Work Quantity	Work Units	Planni	ing Material Cost
FDOT - JOINT SEAL - PCC	PREVENTIVE	650	Ft	\$	1,790.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	83,080	SqFt	\$	456,940.00
FDOT - SURFACE SEAL	STOPGAP	574,045	SqFt	\$	315,730.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	16,395	SqFt	\$	204,900.00
FDOT - CRACK SEALING - AC	STOPGAP	55	Ft	\$	170.00
FDOT - PATCHING - PCC PARTIAL DEPTH	STOPGAP	10	SqFt	\$	620.00
FDOT - CRACK SEALING - PCC	STOPGAP	15	Ft	\$	60.00
FDOT - JOINT SEAL - PCC	STOPGAP	570	Ft	\$	1,570.00



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

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

Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
EYW	AP E	4105	34,810	47	54	\$ 32,340.00
EYW	AP E	4130	37,772	42	68	\$ 97,940.00
EYW	AP E	4145	145,771	44	63	\$ 304,620.00
EYW	AP E	4150	16,824	35	57	\$ 45,580.00
EYW	AP E	4155	51,364	58	70	\$ 35,120.00
EYW	AP E	4160	370,379	100	100	\$ -
EYW	AP W	4205	162,131	55	71	\$ 196,510.00
EYW	AP W	4215	60,960	58	70	\$ 24,110.00
EYW	AP W	4220	13,765	62	83	\$ 17,540.00
EYW	RW 9-27	6105	312,000	100	100	\$ -
EYW	RW 9-27	6110	168,000	100	100	\$ -
EYW	TW A	105	184,302	42	55	\$ 115,010.00
EYW	TW A	110	57,310	42	60	\$ 45,000.00
EYW	TW A10	165	2,531	61	71	\$ 2,250.00
EYW	TW A11	170	2,633	43	62	\$ 4,730.00
EYW	TW A11	172	1,525	100	100	\$ -
EYW	TW A7	150	1,991	88	100	\$ 900.00
EYW	TW A8	155	1,992	88	100	\$ 900.00
EYW	TW A9	160	4,194	100	100	\$ -
EYW	TW B	205	19,096	100	100	\$ -
EYW	TW B	210	20,821	46	62	\$ 23,990.00
EYW	TW C	305	9,642	100	100	\$ -
EYW	TW C	310	10,524	51	61	\$ 2,530.00
EYW	TW D	505	9,324	100	100	\$ -
EYW	TW D	510	16,297	43	62	\$ 11,970.00
EYW	TW E	605	16,396	100	100	\$ -
EYW	TW E	610	37,891	50	57	\$ 21,110.00





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

Table 5.3 (c) Summary of Localized Maintenance

Work Category	Cost
Preventive	\$ 1,790.00
Stopgap	\$ 979,990.00
Planning-Level Localized M&R Needs =	\$ 981,780.00



Chapter 6



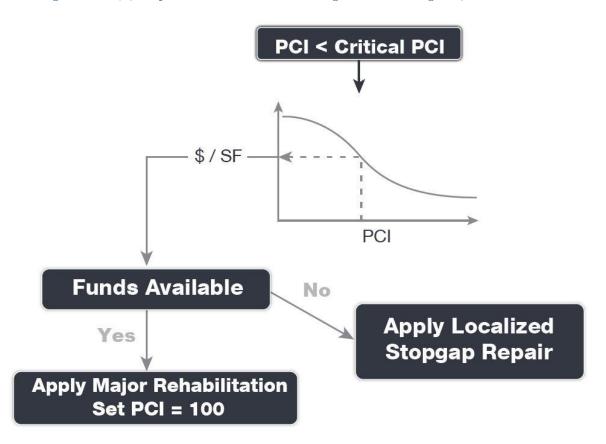


Chapter 6 – Major Rehabilitation **Planning**

6.1 Major Rehabilitation

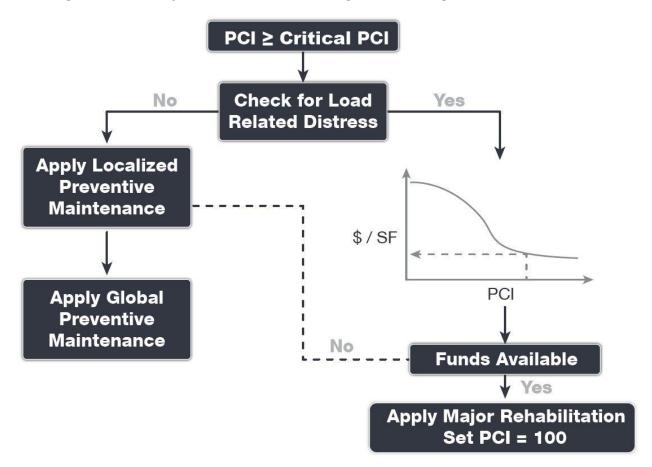
Major rehabilitation is recommended to correct or improve structural deficiencies and/or functional deterioration for pavement sections within a network. Often, when pavements are subject to significant changes in the aircraft fleet mix (frequency and type), major rehabilitation is required to provide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

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





Figures 6.1 (b) Major Rehabilitation Planning Decision Diagram, PCI > Critical PCI







6.1.1 Critical PCI

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

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

- 1. Develop a pavement performance model and refine a prediction model for the pavements considered.
- 2. Select a localized maintenance and repair policy to be used in developing a work
- 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.

Table 6.1.2 FDOT Recommended Minimum Service-Level PCI

Branch Use	FDOT Recommended PCI	Additional Consideration
Runway	75	Aircraft Fleet Mix Changes Primary Runway
Taxiway / Taxilane	70	Aircraft Fleet Mix Changes Expected Operations
Aprons / Run-Ups / Ramps	65	Ground Service Equipment Non-Aircraft Operations (e.g. fueling)





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

Table 6.2.1 (a) Conceptual Pavement Section for Major Rehabilitation - Flexible Asphalt Concrete

Rehabilitation Type	Commercial (PR) Airport
AC Restoration Combination of asphalt pavement milling and overlay with 25% of the areas subject to full-depth reconstruction.	75% Mill and Overlay P-101 AC Milling (4") P-603 Bituminous Tack P-401 (HMA) (4")
PCI = 41 to 65	25% AC Reconstruction P-101 Pavement Removal P-152 Subgrade (12") P-211 Base (8") P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (6") Excludes any paved shoulder features.
AC Reconstruction Full-depth asphalt pavement section reconstruction.	P-101 Pavement Removal P-152 Subgrade (12") P-211 Base (8") P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (6")
PCI = 40 or less	Excludes any paved shoulder features.





Table 6.2.1 (b) Conceptual Pavement Section for Major Rehabilitation - Rigid Portland Cement Concrete

Rehabilitation Type	Commercial (PR) Airport
PCC Restoration Restoration of PCC pavement with a combination of crack sealing, joint seal replacement, and replacement of 25% of slab panels. PCI = 41 to 65	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (12") P-211 Base (if needed, typical) (6") P-501 Rigid PCC (16") *Select Slabs (25%) **Crack Seal and Limited Patching
PCC Reconstruction Full-depth rigid pavement section reconstruction. PCI = 40 or less	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (12") P-211 Base (6") P-501 Rigid PCC (17")

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

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

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





6.2.2 Major Rehabilitation Planning-Level Unit Costs

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

Table 6.2.2 Commercial Major Rehabilitation Planning-Level Unit Cost by Pavement Type

Rehabilitation Type	PCI Range	e Asphalt Cost Per SF	Rigid Portland Cement Concrete Cost per SF		
Restoration	41 to 65	\$ 11.00	\$	17.00	
Reconstruction	0 to 40	\$ 14.00	\$	23.00	

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 payement 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.

Table 6.3.1 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2020	EYW	AP E	4105	AAC	34,810	45	AC Restoration	\$ 431,000.00
2020	EYW	AP E	4130	AAC	37,772	40	AC Restoration	\$ 526,000.00
2020	EYW	AP E	4145	AAC	145,771	42	AC Restoration	\$ 1,941,000.00
2020	EYW	AP E	4150	AC	16,824	34	AC Reconstruction	\$ 236,000.00
2020	EYW	AP E	4155	AAC	51,364	57	AC Restoration	\$ 565,000.00
2020	EYW	AP W	4205	AC	162,131	54	AC Restoration	\$ 1,784,000.00
2020	EYW	AP W	4215	AC	60,960	57	AC Restoration	\$ 671,000.00
2020	EYW	AP W	4220	AC	13,765	61	AC Restoration	\$ 152,000.00
2020	EYW	TW A	105	AAC	184,302	41	AC Restoration	\$ 2,512,000.00
2020	EYW	TW A	110	AAC	57,310	41	AC Restoration	\$ 781,000.00
2020	EYW	TW A10	165	PCC	2,531	60	PCC Restoration	\$ 44,000.00
2020	EYW	TW A11	170	AC	2,633	42	AC Restoration	\$ 36,000.00
2020	EYW	TW B	210	AAC	20,821	45	AC Restoration	\$ 258,000.00
2020	EYW	TW C	310	AAC	10,524	50	AC Restoration	\$ 116,000.00
2020	EYW	TW D	510	AAC	16,297	42	AC Restoration	\$ 217,000.00
2020	EYW	TW E	610	AAC	37,891	49	AC Restoration	\$ 421,000.00

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

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

Airport Pavement

Evaluation Report





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

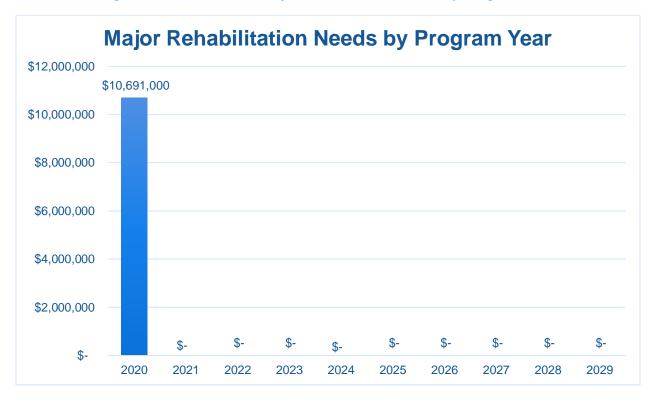
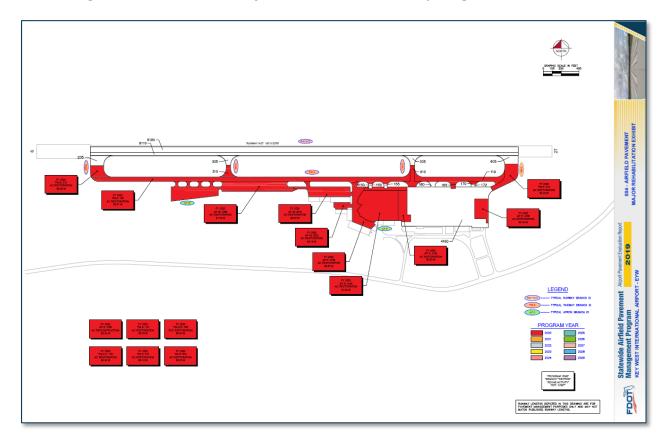


Figure 6.3.1 (b) 10-Year Major Rehabilitation Needs by Program Year Exhibit





Chapter 7





Chapter 7 – Conclusion

7.1 Recommendations

7.1.1 Continued PCI Survey Inspections

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

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

7.1.2 Localized Maintenance and Repair

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

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

7.1.3 Major Rehabilitation

Chapter 6 – Major Rehabilitation Planning identified major pavement rehabilitation project needs from 2020-2029. The identification of the rehabilitation needs was performed at the section level for manageable project areas with the assumption of an unconstrained budget scenario. Given the uncertainty in the airport-specific budget information and prioritization goals, the unconstrained budget scenario was performed to evaluate the worst-case scenario and identify all the inspected pavements' needs in a 10-year period. Certainly, it is understood that most airports are faced with constrained budgets; further evaluation of projects based on prioritization, operational criticality, funding availability, and practicality is recommended.

7.1.4 Pavement Management System

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

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





7.2 Supporting Documents

001 - Airfield Pavement Network Definition Exhibit

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

002 - Airfield Pavement System Inventory Exhibit

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

003 - Airfield Pavement Condition Index Exhibit

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

004 - Airfield Pavement Major Rehabilitation Exhibit

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

Inspection Photograph Documentation

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

Statewide Airfield Pavement Management Program

Airport Pavement Evaluation Report 2019

Key West International Airport (EYW)





7.3 Conclusion

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



Appendix A

Airfield Pavement Analysis Tables

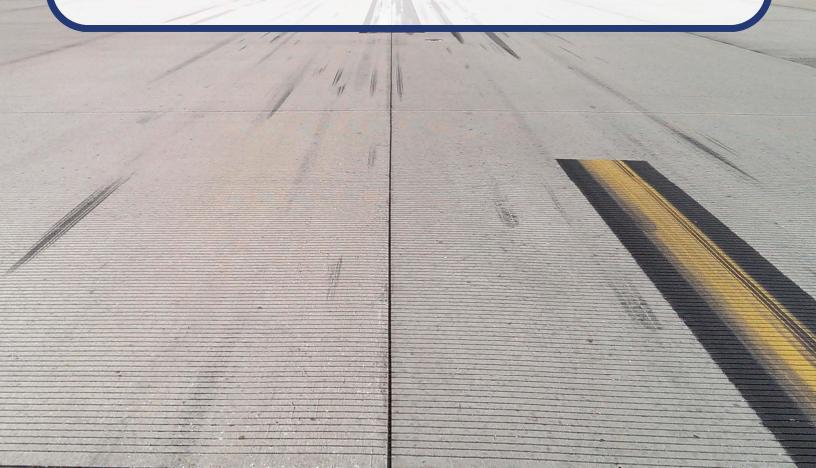






Table A-1 Pavement System Inventory Details

Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
EYW	EAST APRON	AP E	APRON	4105	153	220	34,810	AAC	1/1/2003
EYW	EAST APRON	AP E	APRON	4130	375	100	37,772	AAC	1/1/2003
EYW	EAST APRON	AP E	APRON	4145	430	338	145,771	AAC	1/1/2003
EYW	EAST APRON	AP E	APRON	4150	38	478	16,824	AC	1/1/2003
EYW	EAST APRON	AP E	APRON	4155	685	75	51,364	AAC	1/1/2005
EYW	EAST APRON	AP E	APRON	4160	493	911	370,379	PCC	10/1/2018
EYW	WEST APRON	AP W	APRON	4205	1,325	120	162,131	AC	1/1/2003
EYW	WEST APRON	AP W	APRON	4215	635	100	60,960	AC	1/1/2006
EYW	WEST APRON	AP W	APRON	4220	209	65	13,765	AC	1/1/2005
EYW	RUNWAY 9-27	RW 9-27	RUNWAY	6105	4,800	65	312,000	AAC	4/1/2018
EYW	RUNWAY 9-27	RW 9-27	RUNWAY	6110	4,800	35	168,000	AAC	4/1/2018
EYW	TAXIWAY A	TW A	TAXIWAY	105	3,575	50	184,302	AAC	1/1/2003
EYW	TAXIWAY A	TW A	TAXIWAY	110	1,100	50	57,310	AAC	1/11/2003
EYW	TAXIWAY A10	TW A10	TAXIWAY	165	120	50	2,531	PCC	1/1/2014
EYW	TAXIWAY A11	TW A11	TAXIWAY	170	32	55	2,633	AC	1/1/2003
EYW	TAXIWAY A11	TW A11	TAXIWAY	172	30	50	1,525	PCC	10/1/2018
EYW	TAXIWAY A7	TW A7	TAXIWAY	150	120	36	1,991	PCC	1/1/2014
EYW	TAXIWAY A8	TW A8	TAXIWAY	155	120	36	1,992	PCC	1/1/2014
EYW	TAXIWAY A9	TW A9	TAXIWAY	160	35	50	4,194	PCC	10/1/2018
EYW	TAXIWAY B	TW B	TAXIWAY	205	113	150	19,096	AAC	4/1/2018
EYW	TAXIWAY B	TW B	TAXIWAY	210	127	150	20,821	AAC	1/1/2003
EYW	TAXIWAY C	TW C	TAXIWAY	305	107	50	9,642	AAC	4/1/2018
EYW	TAXIWAY C	TW C	TAXIWAY	310	133	50	10,524	AAC	1/1/2003
EYW	TAXIWAY D	TW D	TAXIWAY	505	109	50	9,324	AAC	4/1/2018
EYW	TAXIWAY D	TW D	TAXIWAY	510	243	50	16,297	AAC	1/1/2003
EYW	TAXIWAY E	TW E	TAXIWAY	605	95	150	16,396	AAC	4/1/2018
EYW	TAXIWAY E	TW E	TAXIWAY	610	187	150	37,891	AAC	1/1/2003





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

Network ID	Branch Name	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
EYW	RUNWAY 9-27	RUNWAY	6105	312,000	100	Good
EYW	RUNWAY 9-27	RUNWAY	6110	168,000	100	Good
EYW	TAXIWAY A	TAXIWAY	105	184,302	42	Poor
EYW	TAXIWAY A	TAXIWAY	110	57,310	42	Poor
EYW	TAXIWAY A10	TAXIWAY	165	2,531	61	Fair
EYW	TAXIWAY A11	TAXIWAY	170	2,633	43	Poor
EYW	TAXIWAY A11	TAXIWAY	172	1,525	100	Good
EYW	TAXIWAY A7	TAXIWAY	150	1,991	88	Good
EYW	TAXIWAY A8	TAXIWAY	155	1,992	88	Good
EYW	TAXIWAY A9	TAXIWAY	160	4,194	100	Good
EYW	TAXIWAY B	TAXIWAY	205	19,096	100	Good
EYW	TAXIWAY B	TAXIWAY	210	20,821	46	Poor
EYW	TAXIWAY C	TAXIWAY	305	9,642	100	Good
EYW	TAXIWAY C	TAXIWAY	310	10,524	51	Poor
EYW	TAXIWAY D	TAXIWAY	505	9,324	100	Good
EYW	TAXIWAY D	TAXIWAY	510	16,297	43	Poor
EYW	TAXIWAY E	TAXIWAY	605	16,396	100	Good
EYW	TAXIWAY E	TAXIWAY	610	37,891	50	Poor
EYW	EAST APRON	APRON	4105	34,810	47	Poor
EYW	EAST APRON	APRON	4130	37,772	42	Poor
EYW	EAST APRON	APRON	4145	145,771	44	Poor
EYW	EAST APRON	APRON	4150	16,824	35	Very Poor
EYW	EAST APRON	APRON	4155	51,364	58	Fair
EYW	EAST APRON	APRON	4160	370,379	100	Good
EYW	WEST APRON	APRON	4205	162,131	55	Poor
EYW	WEST APRON	APRON	4215	60,960	58	Fair
EYW	WEST APRON	APRON	4220	13,765	62	Fair





Table A-3 Forecasted PCI 2020-2029

Network	Down all ID	Section	Last					Forecas	sted PCI				
ID	Branch ID	ID	PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EYW	AP E	4105	47	45	41	37	33	29	27	26	23	21	18
EYW	AP E	4130	42	40	36	32	28	26	25	23	20	18	15
EYW	AP E	4145	44	42	38	34	30	27	26	24	21	19	17
EYW	AP E	4150	35	34	32	31	29	28	26	24	23	21	20
EYW	AP E	4155	58	57	55	53	50	46	42	38	34	30	27
EYW	AP E	4160	100	95	92	89	86	83	80	78	75	72	70
EYW	AP W	4205	55	54	52	51	49	48	46	44	43	41	40
EYW	AP W	4215	58	57	55	53	50	46	42	38	34	30	27
EYW	AP W	4220	62	61	59	58	56	55	53	51	50	48	47
EYW	RW 9-27	6105	100	96	93	90	87	84	82	80	79	78	76
EYW	RW 9-27	6110	100	96	93	90	87	84	82	80	79	78	76
EYW	TW A	105	42	41	39	37	34	32	28	25	21	17	13
EYW	TW A	110	42	41	39	37	34	32	28	25	21	17	13
EYW	TW A10	165	61	60	57	55	52	50	47	45	42	39	37
EYW	TW A11	170	43	42	40	39	37	36	34	32	31	29	28
EYW	TW A11	172	100	98	96	94	93	91	90	88	86	85	83
EYW	TW A7	150	88	87	87	86	85	84	83	82	81	80	79
EYW	TW A8	155	88	87	87	86	85	84	83	82	81	80	79
EYW	TW A9	160	100	97	96	95	94	93	92	92	91	91	91
EYW	TW B	205	100	95	92	89	87	84	82	80	77	75	73
EYW	TW B	210	46	45	44	42	40	38	36	33	31	28	24
EYW	TW C	305	100	95	92	89	87	84	82	80	77	75	73
EYW	TW C	310	51	50	49	49	48	47	46	44	43	41	39
EYW	TW D	505	100	95	92	89	87	84	82	80	77	75	73
EYW	TW D	510	43	42	40	38	36	33	30	27	24	20	16
EYW	TW E	605	100	95	92	89	87	84	82	80	77	75	73
EYW	TW E	610	50	49	48	47	46	45	44	42	40	38	36

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Pavement Database: FDOT

	1 10/01/01/02 111/01/02 111/01/02 111/01/01/01/01								
Network:	KEY WES	T INTERN Bran	ch: APE	EAST	APRON	Section:	4105 Surface: AAC		
L.C.D. 1/1/2							0 (Ft) True Area: 34810.00001 (SqFt		
Work Date	Work Code	Work Descrip		Cost	Thickness (in)	Major M&R	Comments		
1/1/2005	ST-GF	Surface Treatment - 0	Grip Flex	0.00	0.00				
1/1/2003	OL-AS	Overlay - AC Structu	ıral	0.00	1.50				
1/1/1989	IMPORT	BUILT		0.00	3.00		1989 3" P-401 6" P-211 12" P-154		
ED									
Network: KEY WEST INTERN Branch: AP E EAST APRON Section: 4130 Surface: AAC									
L.C.D. 1/1/2	003 Us	e: APRON Ran	k: P L	ength: 375	.00 (Ft) Wi o	dth: 100.0	0 (Ft) True Area: 37772.00001 (SqFt		
Work Date	Work Code	Work Descrip	otion	Cost	Thickness (in)	Major M&R	Comments		
1/1/2005	ST-GF	Surface Treatment - 0	Grip Flex	0.00	0.00				
1/1/2003	OL-AS	Overlay - AC Structu	ıral	0.00	1.50				
1/1/1989	IMPORT ED	REPAIR		0.00	0.00		1989 P-625 SEALCOAT		
1/1/1980	IMPORT	BUILT		0.00	2.00		1980 2" P-401 8" P-211		
	ED			I					
Network: KEY WEST INTERN Branch: AP E EAST APRON Section: 4145 Surface: AAC									
L.C.D. 1/1/2							0 (Ft) True Area: 145771.0000 (SqFt		
Work Date	Work Code	Work Descrip		Cost	Thickness	Major M&R	Comments		
1/1/2005	ST-GF	Surface Treatment - 0	Grin Flex	0.00	(in) 0.00	Mak			
1/1/2003	OL-AS	Overlay - AC Structu	•	0.00	1.50				
1/1/1989	IMPORT	•		0.00	0.00		1989 P-625 SEALCOAT		
1/1/1977	ED IMPORT	ВШСТ		0.00	2.00		1977 2" P-401 6" P-211		
1/1/1///	ED	Deilei		0.00	2.00	 .	17/7 2 1 101 0 1 211		
			ch: AP E		APRON	Section:			
L.C.D. 1/1/2		e: APRON Ran	k: P L	ength: 38			0 (Ft) True Area: 16824.00000 (SqFt		
Work Date	Work Code	Work Descrip	otion	Cost	Thickness (in)	Major M&R	Comments		
1/1/2003	NU-IN	New Construction - I	nitial	0.00	0.00	Y			
N. A. I	WEW WEG	T DITEDU D	LARE	EAGE	A DD OM	S 4:	4155		
Network: L.C.D. 1/1/2			ch: APE k: P L		APRON .00 (Ft) Wie	Section:	4155 Surface: AAC 0 (Ft) True Area: 51364.00001 (SqFt		
	Work	e: AFRON Kan	K; P L	ength: 685	Thickness	dth: 75.00 Major			
Work Date	Code	Work Descrip	•	Cost	(in)	M&R	Comments		
1/1/2005	ML-OV	MILL and OVERLA		0.00	0.00	> :			
1/1/2003	OL-AS	Overlay - AC Structu	ıral	0.00	1.50	> :			
1/1/1989	IMPORT ED	REPAIR		0.00	0.00		1989 P-625 SEALCOAT		
1/1/1977	IMPORT	BUILT		0.00	2.00		1977 2" P-401 6" P-211		

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Pavement Database: FDOT

Network:	KEY WES	ST INTERN Branch: AP E	EAST	APRON	Section:	4160 Surface:PCC		
L.C.D. 10/1/	2018 Us	se: APRON Rank: P L	ength: 493	.00 (Ft) Wi	dth: 911.0	0 (Ft) True Area: 370379.0001 (SqFt		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments		
10/1/2018	CR-PC	Complete Reconstruction - PCC	0.00	0.00				
1/1/2005	ST-GF	Surface Treatment - Grip Flex	0.00	0.00				
1/1/2003	OL-AS	Overlay - AC Structural	0.00	1.50	>			
1/1/1989	IMPORT ED	REPAIR	0.00	0.00		1989 P-625 SEALCOAT		
1/1/1980	IMPORT ED	BUILT	0.00	2.00		1980 2" P-401 8" P-211		
Notropula	VEV WES	ST INTERN Branch: AP W	WEST	APRON	Section:	4205 Surface:AC		
L.C.D. 1/1/2			wE31 ength: 1,325			0 (Ft) True Area: 162131.0000 (SqFt		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments		
1/1/2015	ST-SC	Surface Treatment - Seal Coat	0.00	0.00	Mak	Grip Flex		
1/1/2003	NU-IN	New Construction - Initial	0.00	0.00				
Network:	Network: KEY WEST INTERN Branch: AP W WEST APRON Section: 4215 Surface: AC							
L.C.D. 1/1/2	006 Us	se: APRON Rank: P L	ength: 635	.00 (Ft) Wi	dth: 100.0	0 (Ft) True Area: 60960.00001 (SqFt		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments		
1/1/2006	NC-AC	New Construction - AC	0.00	0.00	V			
Network:	KEY WES	ST INTERN Branch: AP W	WEST	APRON	Section:	4220 Surface:AC		
L.C.D. 1/1/2	005 Us	se: APRON Rank: P L	ength: 209	.00 (Ft) Wi	dth: 65.0	0 (Ft) True Area: 13765.00000 (SqFt		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments		
1/1/2005	NC-AC	New Construction - AC			V			
Network:	KEY WES	ST INTERN Branch: RW 9-2	27 RUNW	VAY 9-27	Section:	6105 Surface:AAC		
L.C.D. 4/1/2	018 Us	se: RUNWAY Rank: P L	ength: 4,800	.00 (Ft) Wi	dth: 65.0	0 (Ft) True Area: 312000.0000 (SqFt		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments		
4/1/2018		MILL and OVERLAY	0.00	0.00	> :			
1/1/2003		Overlay - AC Structural	0.00	1.50	> :			
1/1/1979	IMPORT ED	OVERLAY	0.00	2.50	>	1979 2.5" TO 6" P-401		
1/1/1954		OVERLAY	0.00	2.00		1954 2" P-401 8" P-211		
1/1/1952	IMPORT ED	BUILT	0.00	17.00		1952 17" P-154		
	•							

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Pavement Database: FDOT

Network: KEY WEST INTERN Branch: RW 9-27 RUNWAY 9-27 Section: 6110 Surface: AAC L.C.D. 4/1/2018 Use: RUNWAY Rank: P Length: 4,800.00 (Ft) Width: 35.00 (Ft) True Area: 168000.0000 (SqFt Work Thickness Major **Work Date** Cost **Work Description Comments** Code (in) M&R 4/1/2018 ML-OV MILL and OVERLAY 0.00 0.00 **|** 1/1/2003 OL-AS Overlay - AC Structural 0.00 1.50 1/1/1979 IMPORT OVERLAY 0.00 1979 2.5" P-401 2.50 ED IMPORT BUILT 1/1/1954 0.001954 2" P-401 8" P-211 17" P-152 2.00 ED

Network: KEY WEST INTERN Branch: TW A10 **TAXIWAY A10** Section: 165 Surface:PCC L.C.D. 1/1/2014 Use: TAXIWAY Rank: P Length: 120.00 (Ft) Width: 50.00 (Ft) True Area: 2531.000000 (SqFt Work Thickness Major **Work Date Work Description** Cost Comments Code (in) M&R 1/1/2014 CR-PC Complete Reconstruction - PCC 0.00 0.00 ightharpoons1/1/2003 NC-AC New Construction - AC 0.00 0.00 ~

Network: KEY WEST INTERN TAXIWAY A Section: 105 Branch: TW A Surface: AAC L.C.D. 1/1/2003 Use: TAXIWAY Rank: P **Length:** 3,575.00 (Ft) Width: 50.00 (Ft) True Area: 184302.0000 (SqFt Work Thickness Major **Work Date Work Description** Cost **Comments** Code M&R (in) 1/1/2003 Overlay - AC Structural OL-AS 0.00 1.50 1/1/1979 IMPORT OVERLAY 1979 2" P-401 0.00 2.00 ~ ED 1/1/1957 IMPORT BUILT 1957 1.5 P-401 8" P-211 0.00 8.00 V ED

Network: KEY WEST INTERN Branch: TW A TAXIWAY A Section: 110 Surface: AAC **L.C.D.** 1/11/2003 Use: TAXIWAY Rank: P **Length:** 1,100.00 (Ft) Width: 50.00 (Ft) True Area: 57310.00001 (SqFt Work Major Thickness **Work Date Work Description** Cost Comments Code (in) M&R 1/11/2003 OL-AS Overlay - AC Structural 0.00 1.50 **Y** 1/1/1979 IMPORT BUILT 0.00 2.00 V 1979 2" P-401 8" P-211 17" P-152 ED

Network: KEY WEST INTERN Branch: TW A11 TAXIWAY A11 Section: 170 Surface: AC L.C.D. 1/1/2003 32.00 (Ft) Width: 55.00 (Ft) True Area: 2633.000000 (SqFt Use: TAXIWAY Rank: P Length: Work **Thickness** Major **Work Description Work Date** Cost **Comments** Code (in) M&R 1/1/2003 NU-IN New Construction - Initial 0.00 0.00

Network: KEY WEST INTERN Branch: TW A11 TAXIWAY A11 Section: 172 Surface:PCC

L.C.D. 10/1/2018 Use: TAXIWAY Rank: P Length: 30.00 (Ft) Width: 50.00 (Ft) True Area: 1525.000000 (SqFt

Work Date Work Work Description Cost Thickness Major M&P Comments

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
10/1/2018	CR-PC	Complete Reconstruction - PCC	0.00	0.00	~	
1/1/2003	NU-IN	New Construction - Initial	0.00	0.00	>	

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Pavement Database: FDOT

Network: KEY WEST INTERN Branch: TW A7 TAXIWAY A7 Section: 150 Surface:PCC L.C.D. 1/1/2014 Use: TAXIWAY Rank: P Length: 120.00 (Ft) Width: 36.00 (Ft) True Area: 1991.000000 (SqFt Work Thickness Major **Work Date** Cost **Work Description Comments** Code (in) M&R 1/1/2014 CR-PC Complete Reconstruction - PCC 0.00 0.00 1/1/2003 NC-AC New Construction - AC 0.00 0.00 ~

Branch: TW A8 Network: KEY WEST INTERN TAXIWAY A8 Section: 155 Surface:PCC 36.00 (Ft) True Area: 1992.000000 (SqFt L.C.D. 1/1/2014 Use: TAXIWAY Rank: P Length: 120.00 (Ft) Width: Work Thickness Major **Work Date Work Description** Cost **Comments** Code M&R (in) 1/1/2014 CR-PC Complete Reconstruction - PCC 0.00 0.00 1/1/2003 NC-AC New Construction - AC 0.00 0.00 ~

Network: KEY WEST INTERN Branch: TW A9 TAXIWAY A9 Section: 160 Surface:PCC **L.C.D.** 10/1/2018 Use: TAXIWAY Rank: P Length: 35.00 (Ft) Width: 50.00 (Ft) True Area: 4194.000001 (SqFt Work Thickness Major **Work Date Work Description** Cost Comments Code (in) M&R 10/1/2018 CR-PC Complete Reconstruction - PCC 0.00 0.00 ~ 1/1/2014 0.00 CR-PC Complete Reconstruction - PCC 0.00 ~ 1/1/2003 NC-AC New Construction - AC 0.00 0.00 **V**

Branch: TW B **Network:** KEY WEST INTERN TAXIWAY B Section: 205 Surface: AAC L.C.D. 4/1/2018 Use: TAXIWAY Rank: P 113.00 (Ft) Width: 150.00 (Ft) True Area: 19096.00000 (SqFt Length: Work Thickness Major **Work Date Work Description** Cost **Comments** M&R Code (in) 4/1/2018 0.00 ML-OV MILL and OVERLAY 0.00 ~ 1/1/2003 Overlay - AC Structural OL-AS 0.00 1.50 ~ 1/1/1979 IMPORT OVERLAY 0.00 2.00 ~ 1979 2" P-401 ED 1/1/1957 IMPORT BUILT 0.00 1.50 1957 1.5" P-401 8" P-211 17" P-152 ~ ED

Network: KEY WEST INTERN Branch: TW B TAXIWAY B Section: 210 Surface:AAC L.C.D. 1/1/2003 Use: TAXIWAY Rank: P Length: 127.00 (Ft) Width: 150.00 (Ft) True Area: 20821.00000 (SqFt

Work Date	Work Code	Work Description		Thickness (in)	Major M&R	Comments
1/1/2003	OL-AS	Overlay - AC Structural	0.00	1.50	~	
1/1/1979	IMPORT	OVERLAY	0.00	2.00		1979 2" P-401
	ED					
1/1/1957	IMPORT	BUILT	0.00	1.50		1957 1.5" P-401 8" P-211 17" P-152
	ED					

ED

Work History Report

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Pavement Database: FDOT

Network: L.C.D. 4/1/2		T INTERN Branch: TW C se: TAXIWAY Rank: P L		WAY C .00 (Ft) Wid	Section:	305 Surface: AAC 0 (Ft) True Area: 9642.000002 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
4/1/2018	ML-OV	MILL and OVERLAY	0.00	0.00	V	
1/1/2003	OL-AS	Overlay - AC Structural	0.00	1.50	~	
1/1/1979	IMPORT ED	OVERLAY	0.00	2.00		1979 2" P-401
1/1/1957	IMPORT ED	BUILT	0.00	1.50	V	1957 1.5" P-401 8" P-211 17" P-152

Network: KEY WEST INTERN Branch: TW C TAXIWAY C Section: 310 Surface: AAC **L.C.D.** 1/1/2003 Use: TAXIWAY Rank: P Length: 133.00 (Ft) Width: 50.00 (Ft) True Area: 10524.00000 (SqFt Work Thickness Major **Work Date Work Description** Cost Comments Code (in) M&R 1/1/2003 OL-AS Overlay - AC Structural 0.00 1.50 ~ IMPORT OVERLAY 1/1/1979 0.00 1979 2" P-401 2.00 ~ ED IMPORT BUILT 1/1/1957 0.00 1.50 1957 1.5" P-401 8" P-211 17" P-152 ~

Network: KEY WEST INTERN Branch: TW D TAXIWAY D Section: 505 Surface: AAC **L.C.D.** 4/1/2018 Use: TAXIWAY Rank: P Length: 109.00 (Ft) Width: 50.00 (Ft) True Area: 9324.000002 (SqFt Thickness Work Major **Work Date Work Description** Cost **Comments** Code (in) M&R 4/1/2018 ML-OV MILL and OVERLAY 0.00 0.00 1/1/2003 OL-AS Overlay - AC Structural 0.00 1.50 ~ 1/1/1979 IMPORT OVERLAY 0.00 2.00 ~ 1979 2" P-401 ED IMPORT BUILT 1/1/1957 0.00 1.50 1957 1.5" P-401 8" P-211 17" P-152 ED

Network: KEY WEST INTERN Branch: TW D TAXIWAY D Section: 510 Surface:AAC L.C.D. 1/1/2003 Use: TAXIWAY Rank: P Length: 243.00 (Ft) Width: 50.00 (Ft) True Area: 16297.00000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2003	OL-AS	Overlay - AC Structural	0.00	1.50	>	
1/1/1979	IMPORT ED	OVERLAY	0.00	2.00		1979 2" P-401
1/1/1957	IMPORT ED	BUILT	0.00	1.50	>	1957 1.5" P-401 8" P-211 17" P-152

Network: KEY WEST INTERN Branch: TW E TAXIWAY E Section: 605 Surface:AAC

L.C.D. 4/1/2018 Use: TAXIWAY Rank: P Length: 95.00 (Ft) Width: 150.00 (Ft) True Area: 16396.00000 (SqFt

	Work		0	Thickness	Major	
Work Date	Code	Work Description	Cost	(in)	M&R	Comments
4/1/2018	ML-OV	MILL and OVERLAY	0.00	0.00	V	
1/1/2003	OL-AS	Overlay - AC Structural	0.00	1.50		
1/1/1979	IMPORT ED	OVERLAY	0.00	2.00		1979 2" P-401
1/1/1957	IMPORT ED	BUILT	0.00	1.50		1957 1.5" P-401 8" P-211 17" P-152

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Pavement Database: FDOT

Network:	KEY WES	T INTERN Branch: TW	Е	TAXIV	WAY E	Section:	610 Surface:AAC
L.C.D. 1/1/2	003 Us	se: TAXIWAY Rank: P	L	ength: 187	.00 (Ft) Wi	dth: 150.0	0 (Ft) True Area: 37891.00001 (SqFt
Work Date	Work Code	Work Description		Cost	Thickness (in)	Major M&R	Comments
1/1/2003	OL-AS	Overlay - AC Structural		0.00	1.50	V	
1/1/1979	IMPORT ED	OVERLAY		0.00	2.00		1979 2" P-401
1/1/1957	IMPORT ED	BUILT		0.00	1.50		1957 1.5" P-401 8" P-211 17" P-152

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Pavement Database: FDOT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	17	1,501,699.00	3.06	3.80
Complete Reconstruction - PCC	7	386,806.00	0.00	0.00
MILL and OVERLAY	7	585,822.00	0.00	0.00
New Construction - AC	6	85,433.00	0.00	0.00
New Construction - Initial	4	183,113.00	0.00	0.00
OVERLAY	12	1,116,293.00	2.08	0.19
Overlay - AC Structural	17	1,501,699.00	1.50	0.00
REPAIR	4	605,286.00	0.00	0.00
Surface Treatment - Grip Flex	4	588,732.00	0.00	0.00
Surface Treatment - Seal Coat	1	162,131.00	0.00	0.00

Branch Condition Report

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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 E	6	2,174.00	353.67	656,920.00	APRON	54.33	21.55	76.48
AP W	3	2,169.00	95.00	236,856.00	APRON	58.33	2.87	56.18
RW 9-27	2	9,600.00	50.00	480,000.00	RUNWAY	100.00	0.00	100.00
TW A	2	4,675.00	50.00	241,612.00	TAXIWAY	42.00	0.00	42.00
TW A10	1	120.00	50.00	2,531.00	TAXIWAY	61.00	0.00	61.00
TW A11	2	62.00	52.50	4,158.00	TAXIWAY	71.50	28.50	63.91
TW A7	1	120.00	36.00	1,991.00	TAXIWAY	88.00	0.00	88.00
TW A8	1	120.00	36.00	1,992.00	TAXIWAY	88.00	0.00	88.00
TW A9	1	35.00	50.00	4,194.00	TAXIWAY	100.00	0.00	100.00
TW B	2	240.00	150.00	39,917.00	TAXIWAY	73.00	27.00	71.83
TW C	2	240.00	50.00	20,166.00	TAXIWAY	75.50	24.50	74.43
TW D	2	352.00	50.00	25,621.00	TAXIWAY	71.50	28.50	63.74
TW E	2	282.00	150.00	54,287.00	TAXIWAY	75.00	25.00	65.10

10/3/2019	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	9	893,776.00	55.67	17.77	71.10
RUNWAY	2	480,000.00	100.00	0.00	100.00
TAXIWAY	16	396,469.00	72.13	25.52	52.65
ALL	27	1,770,245.00	68.70	25.05	74.80

Pavement Database: FDOT

NetworkId: EYW

Fuvement Data	ouse. I DOI				1 VCin	orkia.	LIN			
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspec tion	
AP E	4105	1/1/2003	AAC	APRON	Р	0	34,810.00	7/29/2019	16	47
AP E	4130	1/1/2003	AAC	APRON	Р	0	37,772.00	7/29/2019	16	42
AP E	4145	1/1/2003	AAC	APRON	Р	0	145,771.00	7/29/2019	16	44
AP E	4150	1/1/2003	AC	APRON	Р	0	16,824.00	7/29/2019	16	35
AP E	4155	1/1/2005	AAC	APRON	Р	0	51,364.00	7/29/2019	14	58
AP E	4160	10/1/2018	PCC	APRON	Р	0	370,379.00	10/1/2018	0	100
AP W	4205	1/1/2003	AC	APRON	Р	0	162,131.00	7/29/2019	16	55
AP W	4215	1/1/2006	AC	APRON	Р	0	60,960.00	7/29/2019	13	58
AP W	4220	1/1/2005	AC	APRON	Р	0	13,765.00	7/29/2019	14	62
RW 9-27	6105	4/1/2018	AAC	RUNWAY	Р	0	312,000.00	4/1/2018	0	100
RW 9-27	6110	4/1/2018	AAC	RUNWAY	Р	0	168,000.00	4/1/2018	0	100
TW A	105	1/1/2003	AAC	TAXIWAY	Р	0	184,302.00	7/29/2019	16	42
TW A	110	1/11/2003	AAC	TAXIWAY	Р	0	57,310.00	7/29/2019	16	42
TW A10	165	1/1/2014	PCC	TAXIWAY	Р	0	2,531.00	7/29/2019	5	61
TW A11	170	1/1/2003	AC	TAXIWAY	Р	0	2,633.00	7/29/2019	16	43
TW A11	172	10/1/2018	PCC	TAXIWAY	Р	0	1,525.00	10/1/2018	0	100
TW A7	150	1/1/2014	PCC	TAXIWAY	Р	0	1,991.00	7/29/2019	5	88
TW A8	155	1/1/2014	PCC	TAXIWAY	Р	0	1,992.00	7/29/2019	5	88
TW A9	160	10/1/2018	PCC	TAXIWAY	Р	0	4,194.00	10/1/2018	0	100
TW B	205	4/1/2018	AAC	TAXIWAY	Р	0	19,096.00	4/1/2018	0	100
TW B	210	1/1/2003	AAC	TAXIWAY	Р	0	20,821.00	7/29/2019	16	46
TW C	305	4/1/2018	AAC	TAXIWAY	Р	0	9,642.00	4/1/2018	0	100
TW C	310	1/1/2003	AAC	TAXIWAY	Р	0	10,524.00	7/29/2019	16	51
TW D	505	4/1/2018	AAC	TAXIWAY	Р	0	9,324.00	4/1/2018	0	100
TW D	510	1/1/2003	AAC	TAXIWAY	Р	0	16,297.00	7/29/2019	16	43
TW E	605	4/1/2018	AAC	TAXIWAY	Р	0	16,396.00	4/1/2018	0	100
TW E	610	1/1/2003	AAC	TAXIWAY	Р	0	37,891.00	7/29/2019	16	50

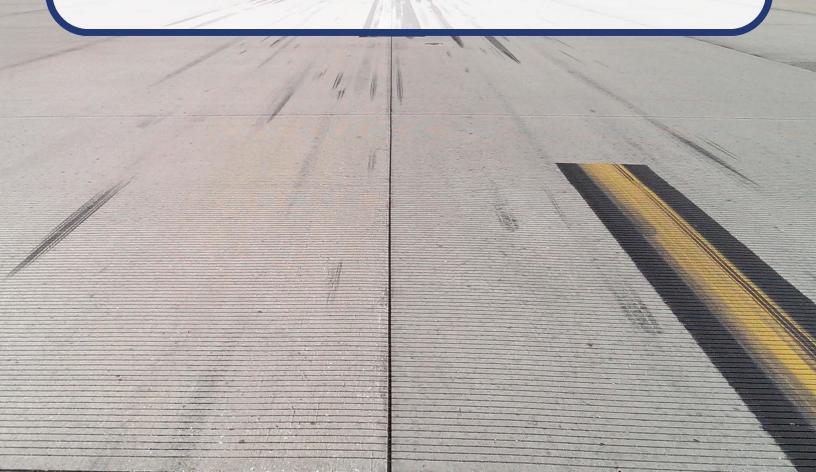
Pavement Database: FDOT

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
00-02		910,556.00	9	100.00	0.00	100.00
03-05	5	6,514.00	3	79.00	12.73	77.51
11-15	14	126,089.00	3	59.33	1.89	58.44
16-20	16	727,086.00	12	45.00	5.02	46.06
ALL	9	1,770,245.00	27	68.70	25.05	74.80



Appendix B

Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation



2019





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

Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	W	ork Cost
EYW	AP E	4105	45	DEPRESSION	Low	928.28	SqFt	2.7%	FDOT - PATCHING - AC FULL DEPTH	1054.9	SqFt	\$ 12.50	\$	13,190.00
EYW	AP E	4105	52	RAVELING	Low	34809.95	SqFt	100.0%	FDOT - SURFACE SEAL	34810.5	SqFt	\$ 0.55	\$	19,150.00
EYW	AP E	4130	50	PATCHING	Medium	104.19	SqFt	0.3% FDOT - PATCHING - AC FULL DEPTH		149.6	SqFt	\$ 12.50	\$	1,870.00
EYW	AP E	4130	52	RAVELING	Low	22559	SqFt	59.7%	FDOT - SURFACE SEAL	22559	SqFt	\$ 0.55	\$	12,410.00
EYW	AP E	4130	52	RAVELING	Medium	15108.76	SqFt	40.0%	FDOT - PATCHING - AC PARTIAL DEPTH	15109.3	SqFt	\$ 5.50	\$	83,100.00
EYW	AP E	4130	55	SLIPPAGE CR	N/A	65.12	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	101.2	SqFt	\$ 5.50	\$	560.00
EYW	AP E	4145	45	DEPRESSION	Low	3041.77	SqFt	2.1%	FDOT - PATCHING - AC FULL DEPTH	3267.9	SqFt	\$ 12.50	\$	40,850.00
EYW	AP E	4145	49	OIL SPILLAGE	N/A	485.88	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	579.1	SqFt	\$ 5.50	\$	3,190.00
EYW	AP E	4145	52	RAVELING	Low	109328.28	SqFt	75.0%	FDOT - SURFACE SEAL	109328	SqFt	\$ 0.55	\$	60,140.00
EYW	AP E	4145	52	RAVELING	Medium	36442.73	SqFt	25.0%	FDOT - PATCHING - AC PARTIAL DEPTH	36442.3	SqFt	\$ 5.50	\$	200,440.00
EYW	AP E	4150	41	ALLIGATOR CR	Low	49.41	SqFt	0.3%	FDOT - PATCHING - AC FULL DEPTH	81.8	SqFt	\$ 12.50	\$	1,030.00
EYW	AP E	4150	45	DEPRESSION	Low	1024.51	SqFt	6.1%	FDOT - PATCHING - AC FULL DEPTH	1157.1	SqFt	\$ 12.50	\$	14,470.00
EYW	AP E	4150	52	RAVELING	Low	12618.64	SqFt	75.0%	FDOT - SURFACE SEAL	12618.5	SqFt	\$ 0.55	\$	6,950.00
EYW	AP E	4150	52	RAVELING	Medium	4205.35	SqFt	25.0%	FDOT - PATCHING - AC PARTIAL DEPTH	4205.5	SqFt	\$ 5.50	\$	23,130.00
EYW	AP E	4155	41	ALLIGATOR CR	Low	38.97	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	67.8	SqFt	\$ 12.50	\$	860.00
EYW	AP E	4155	45	DEPRESSION	Low	140.79	SqFt	0.3%	FDOT - PATCHING - AC FULL DEPTH	192.7	SqFt	\$ 12.50	\$	2,410.00
EYW	AP E	4155	45	DEPRESSION	Medium	279	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH		SqFt	\$ 12.50	\$	4,380.00
EYW	AP E	4155	45	DEPRESSION	High	27.99	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH		SqFt	\$ 12.50	\$	670.00
EYW	AP E	4155	50	PATCHING	Medium	214.96	SqFt	0.4%	FDOT - PATCHING - AC FULL DEPTH	277.7	SqFt	\$ 12.50	\$	3,480.00
EYW	AP E	4155	52	RAVELING	Low	5116.95	SqFt	10.0%	FDOT - SURFACE SEAL	5117.2	SqFt	\$ 0.55	\$	2,820.00
EYW	AP E	4155	55	SLIPPAGE CR	N/A	140.04	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	191.6	SqFt	\$ 5.50	\$	1,060.00
EYW	AP E	4155	57	WEATHERING	Medium	35335.55	SqFt	68.8%	FDOT - SURFACE SEAL	35335.8	SqFt	\$ 0.55	\$	19,440.00
EYW	AP W	4205	41	ALLIGATOR CR	Low	287.83	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	360.6	SqFt	\$ 12.50	\$	4,510.00
EYW	AP W	4205	45	DEPRESSION	Low	798.36	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	916	SqFt	\$ 12.50	\$	11,460.00
EYW	AP W	4205	49	OIL SPILLAGE	N/A	287.83	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	360.6	SqFt	\$ 5.50	\$	1,990.00
EYW	AP W	4205	52	RAVELING	Low	59474.7	SqFt	36.7%	FDOT - SURFACE SEAL	59474.9	SqFt	\$ 0.55	\$	32,720.00
EYW	AP W	4205	52	RAVELING	Medium	23537.87	SqFt	14.5%	FDOT - PATCHING - AC PARTIAL DEPTH	23537.4	SqFt	\$ 5.50	\$	129,460.00
EYW	AP W	4205	57	WEATHERING	Medium	29745.42	SqFt	18.4%	FDOT - SURFACE SEAL	29745	SqFt	\$ 0.55	\$	16,370.00
EYW	AP W	4215	45	DEPRESSION	Low	760.69	SqFt	1.3%	FDOT - PATCHING - AC FULL DEPTH	876.2	SqFt	\$ 12.50	\$	10,950.00
EYW	AP W	4215	45	DEPRESSION	Medium	145.64	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	198.1	SqFt	\$ 12.50	\$	2,480.00
EYW	AP W	4215	49	OIL SPILLAGE	N/A	447.78	SqFt	0.7%	FDOT - PATCHING - AC PARTIAL DEPTH	537.1	SqFt	\$ 5.50	\$	2,960.00
EYW	AP W	4215	52	RAVELING	Low	14026.24	SqFt	23.0% FDOT - SURFACE SEAL		14026.5	SqFt	\$ 0.55	\$	7,720.00
EYW	AP W	4220	45	DEPRESSION	Low	406.12	SqFt	3.0% FDOT - PATCHING - AC FULL DEPTH		490.8	SqFt	\$ 12.50	\$	6,150.00
EYW	AP W	4220	50	PATCHING	Medium	302.04	SqFt	2.2% FDOT - PATCHING - AC FULL DEPTH		375.7	SqFt	\$ 12.50	\$	4,710.00
EYW	AP W	4220	52	RAVELING	Low	3366.52	SqFt	24.5%	FDOT - SURFACE SEAL	3367	SqFt	\$ 0.55	\$	1,860.00
EYW	AP W	4220	57	WEATHERING	Medium	8750.41	SqFt	63.6%	FDOT - SURFACE SEAL	8750	SqFt	\$ 0.55	\$	4,820.00
EYW	TW A	105	41	ALLIGATOR CR	Low	46.18	SqFt	0.0%	FDOT - PATCHING - AC FULL DEPTH	77.5	SqFt	\$ 12.50	\$	970.00
EYW	TW A	105	52	RAVELING	Low	21874.31	SqFt	11.9%	11.9% FDOT - SURFACE SEAL		SqFt	\$ 0.55	\$	12,040.00

Statewide Airfield Pavement
Management Program
Airport Pavement
Evaluation Report

2019

Key West International Airport (EYW)





Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit Cost	W	ork Cost
EYW	TW A	105	52	RAVELING	Medium	732.81	SqFt	0.4%	FDOT - PATCHING - AC PARTIAL DEPTH	733	SqFt	\$ 5.50	\$	4,040.00
EYW	TW A	105	53	RUTTING	Medium	1656.03	SqFt	0.9%	FDOT - PATCHING - AC FULL DEPTH	1655.5	SqFt	\$ 12.50	\$	20,710.00
EYW	TW A	105	53	RUTTING	High	403.86	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH		SqFt	\$ 12.50	\$	5,050.00
EYW	TW A	105	57	WEATHERING	Medium	131269.22	SqFt	71.2%	FDOT - SURFACE SEAL	131269.1	SqFt	\$ 0.55	\$	72,200.00
EYW	TW A	110	41	ALLIGATOR CR	Low	45.85	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	77.5	SqFt	\$ 12.50	\$	970.00
EYW	TW A	110	48	L & T CR	Medium	53.48	Ft	0.1%	FDOT - CRACK SEALING - AC	53.5	Ft	\$ 3.00	\$	170.00
EYW	TW A	110	50	PATCHING	Medium	114.64	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	161.5	SqFt	\$ 12.50	\$	2,030.00
EYW	TW A	110	52	RAVELING	Low	4759.59	SqFt	8.3%	FDOT - SURFACE SEAL	4759.8	SqFt	\$ 0.55	\$	2,620.00
EYW	TW A	110	52	RAVELING	Medium	45.85	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	46.3	SqFt	\$ 5.50	\$	260.00
EYW	TW A	110	53	RUTTING	Medium	1306.42	SqFt	2.3%	FDOT - PATCHING - AC FULL DEPTH	1306.7	SqFt	\$ 12.50	\$	16,340.00
EYW	TW A	110	53	RUTTING	High	611.17	SqFt	1.1%	FDOT - PATCHING - AC FULL DEPTH	611.4	SqFt	\$ 12.50	\$	7,640.00
EYW	TW A	110	57	WEATHERING	Medium	27205.35	SqFt	47.5%	FDOT - SURFACE SEAL	27205.8	SqFt	\$ 0.55	\$	14,970.00
EYW	TW A10	165	62	CORNER BREAK	Low	1.33	Slabs	16.7%	FDOT - CRACK SEALING - PCC	10.8	Ft	\$ 4.25	\$	50.00
EYW	TW A10	165	65	JT SEAL DMG	High	8	Slabs	100.0%	FDOT - JOINT SEAL - PCC	569.9	Ft	\$ 2.75	\$	1,570.00
EYW	TW A10	165	74	JOINT SPALL	Low	1.33	Slabs	16.7%	FDOT - CRACK SEALING - PCC	2.3	Ft	\$ 4.25	\$	10.00
EYW	TW A10	165	74	JOINT SPALL	Medium	1.33	Slabs	16.7%	FDOT - PATCHING - PCC PARTIAL DEPTH	8.6	SqFt	\$ 72.00	\$	620.00
EYW	TW A11	170	45	DEPRESSION	Low	231.96	SqFt	8.8%	FDOT - PATCHING - AC FULL DEPTH	297.1	SqFt	\$ 12.50	\$	3,720.00
EYW	TW A11	170	52	RAVELING	Low	302.04	SqFt	11.5%	FDOT - SURFACE SEAL	302.5	SqFt	\$ 0.55	\$	170.00
EYW	TW A11	170	57	WEATHERING	Medium	1509.96	SqFt	57.4%	FDOT - SURFACE SEAL	1510.2	SqFt	\$ 0.55	\$	840.00
EYW	TW A7	150	65	JT SEAL DMG	High	6	Slabs	100.0%	FDOT - JOINT SEAL - PCC	324.2	Ft	\$ 2.75	\$	900.00
EYW	TW A8	155	65	JT SEAL DMG	High	6	Slabs	100.0%	FDOT - JOINT SEAL - PCC	324.2	Ft	\$ 2.75	\$	900.00
EYW	TW B	210	41	ALLIGATOR CR	Low	880.6	SqFt	4.2%	FDOT - PATCHING - AC FULL DEPTH	1004.3	SqFt	\$ 12.50	\$	12,560.00
EYW	TW B	210	45	DEPRESSION	Low	118.83	SqFt	0.6%	FDOT - PATCHING - AC FULL DEPTH	166.8	SqFt	\$ 12.50	\$	2,090.00
EYW	TW B	210	52	RAVELING	Low	4588.98	SqFt	22.0%	FDOT - SURFACE SEAL	4588.7	SqFt	\$ 0.55	\$	2,530.00
EYW	TW B	210	52	RAVELING	Medium	1237.1	SqFt	5.9%	FDOT - PATCHING - AC PARTIAL DEPTH	1236.8	SqFt	\$ 5.50	\$	6,810.00
EYW	TW C	310	52	RAVELING	Low	2565.58	SqFt	24.4%	FDOT - SURFACE SEAL	2565	SqFt	\$ 0.55	\$	1,420.00
EYW	TW C	310	57	WEATHERING	Medium	2018.13	SqFt	19.2%	FDOT - SURFACE SEAL	2018.2	SqFt	\$ 0.55	\$	1,110.00
EYW	TW D	510	41	ALLIGATOR CR	Low	181.05	SqFt	1.1%	1.1% FDOT - PATCHING - AC FULL DEPTH		SqFt	\$ 12.50	\$	3,000.00
EYW	TW D	510	52	RAVELING	Low	1629.66	SqFt	10.0%	10.0% FDOT - SURFACE SEAL		SqFt	\$ 0.55	\$	900.00
EYW	TW D	510	57	WEATHERING	Medium	14667.33	SqFt	90.0%	FDOT - SURFACE SEAL	14666.9	SqFt	\$ 0.55	\$	8,070.00
EYW	TW E	610	41	ALLIGATOR CR	Low	35.63	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	63.5	SqFt	\$ 12.50	\$	800.00
EYW	TW E	610	45	DEPRESSION	Low	374.37	SqFt	1.0%	FDOT - PATCHING - AC FULL DEPTH	456.4	SqFt	\$ 12.50	\$	5,710.00
EYW	TW E	610	52	RAVELING	Low	6418.63	SqFt	16.9%	FDOT - SURFACE SEAL	6418.5	SqFt	\$ 0.55	\$	3,540.00
EYW	TW E	610	57	WEATHERING	Medium	20104.4	SqFt	53.1%	FDOT - SURFACE SEAL	20104.8	SqFt	\$ 0.55	\$	11,060.00





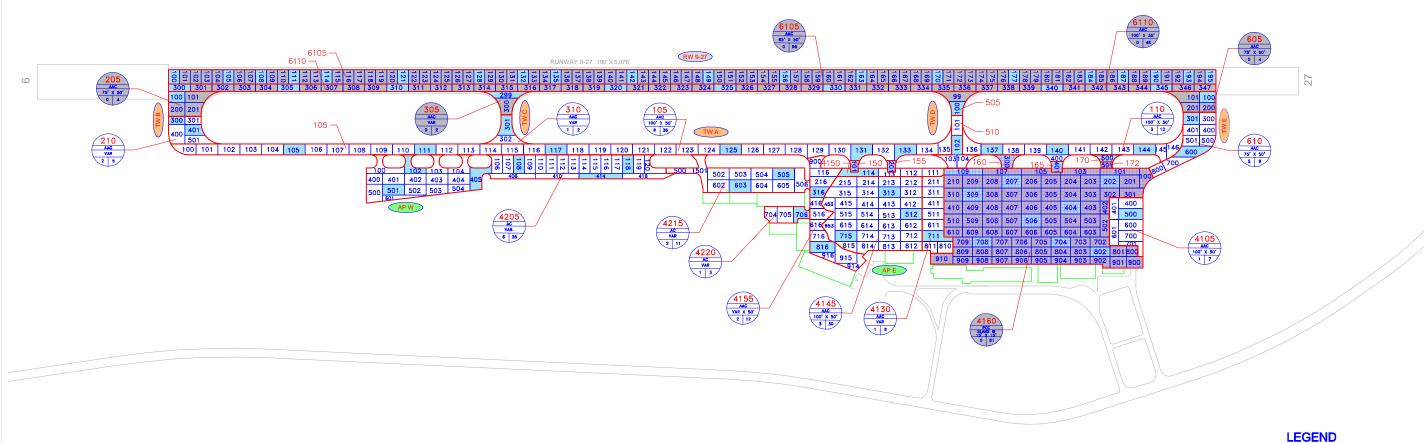
Table B-2 10-Year Major Rehabilitation Planning Needs at Section Level

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2020	EYW	AP E	4105	AAC	34,810	45	AC Restoration	\$ 431,000.00
2020	EYW	AP E	4130	AAC	37,772	40	AC Restoration	\$ 526,000.00
2020	EYW	AP E	4145	AAC	145,771	42	AC Restoration	\$ 1,941,000.00
2020	EYW	AP E	4150	AC	16,824	34	AC Reconstruction	\$ 236,000.00
2020	EYW	AP E	4155	AAC	51,364	57	AC Restoration	\$ 565,000.00
2020	EYW	AP W	4205	AC	162,131	54	AC Restoration	\$ 1,784,000.00
2020	EYW	AP W	4215	AC	60,960	57	AC Restoration	\$ 671,000.00
2020	EYW	AP W	4220	AC	13,765	61	AC Restoration	\$ 152,000.00
2020	EYW	TW A	105	AAC	184,302	41	AC Restoration	\$ 2,512,000.00
2020	EYW	TW A	110	AAC	57,310	41	AC Restoration	\$ 781,000.00
2020	EYW	TW A10	165	PCC	2,531	60	PCC Restoration	\$ 44,000.00
2020	EYW	TW A11	170	AC	2,633	42	AC Restoration	\$ 36,000.00
2020	EYW	TW B	210	AAC	20,821	45	AC Restoration	\$ 258,000.00
2020	EYW	TW C	310	AAC	10,524	50	AC Restoration	\$ 116,000.00
2020	EYW	TW D	510	AAC	16,297	42	AC Restoration	\$ 217,000.00
2020	EYW	TW E	610	AAC	37,891	49	AC Restoration	\$ 421,000.00



Appendix C

Technical Exhibits



150 155 160 165 WAR 17 170 WAR 17

- TYPICAL RUNWAY BRANCH ID

- TYPICAL TAXIWAY BRANCH ID

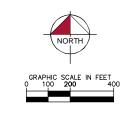
PAVEMENT TYPE
 TYPICAL SAMPLE UNIT INFORMATION
 FLEXIBLE (AC) PAVEMENT LENGTH & WIDTH
 RIGID (PCC) PAVEMENT NO. OF SLABS AND SLAB SIZE

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

SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES. INSPECTED SAMPLE UNITS. GPS COORDINATES ARE AT THE CENTROID OF THE SAMPLE UNIT.

TOTAL SAMPLES INSPECTED = 36 AC: 33 PCC: 3

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



LEGEND

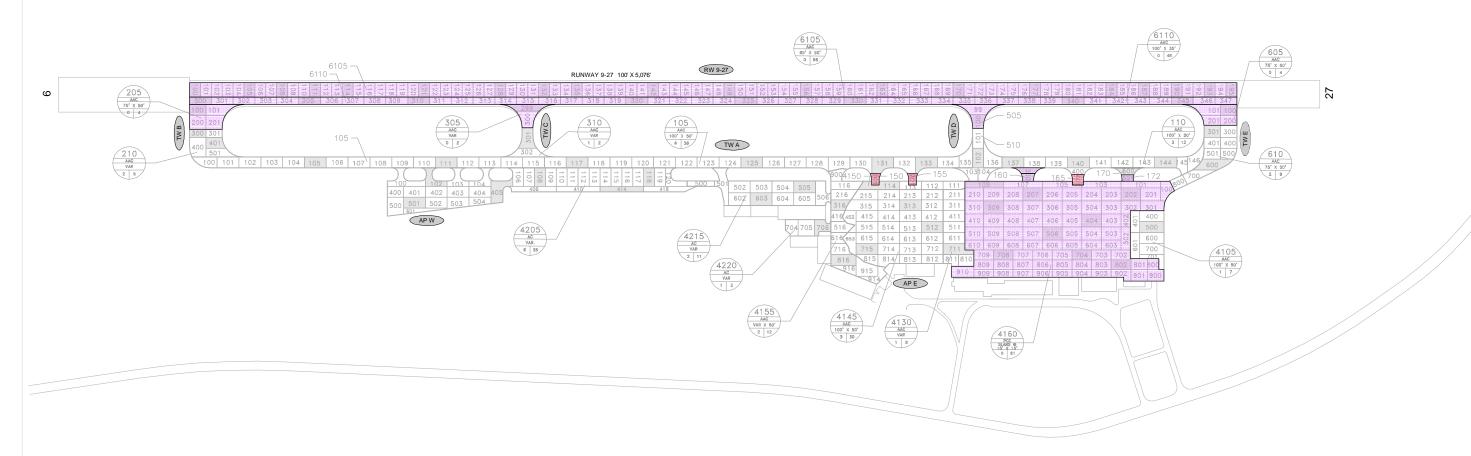
PROJECTS YEAR 2013

PROJECTS YEAR 2014 PROJECTS YEAR 2015 PROJECTS YEAR 2016

> PROJECTS YEAR 2018 PROJECTS YEAR 2019 PROJECTS YEAR 2020

PROJECTS YEAR 2022

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



CONSTRUCTION SINCE LAST INSPECTION

& AN	TICIPATED CON	STRUCTION ACTIVITY
CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2014	TW A7, TW A8, TW A9, TW A10	RECONSTRUCTION - PCC
2018	RW 9-27, TW B, TW C, TW D, TW E	MILL AND OVERLAY
2018	AP E, TW A9, TW A11	RECONSTRUCTION - PCC

& AN	TICIPATED CON	STRUCTION ACTIVITY
CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2014	TW A7, TW A8, TW A9, TW A10	RECONSTRUCTION - PCC
2018	RW 9-27, TW B, TW C, TW D, TW E	MILL AND OVERLAY
2018	AP E, TW A9, TW A11	RECONSTRUCTION - PCC

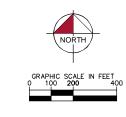
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS.

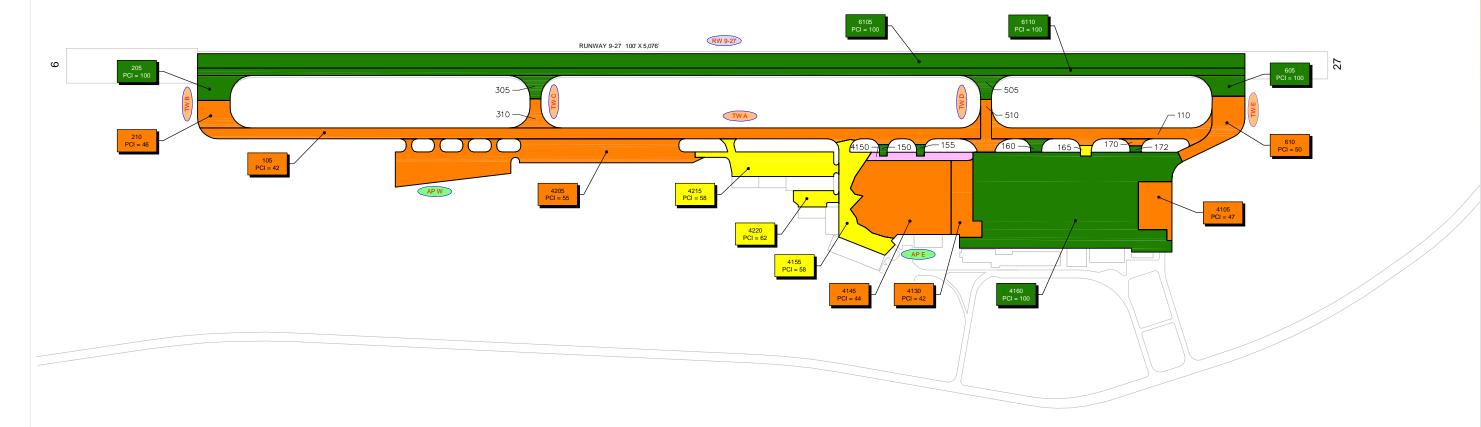
"SECTION NO." "PCI NO."

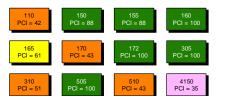
LEGEND RW 13-31 - TYPICAL RUNWAY BRANCH ID

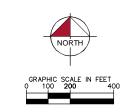
> - TYPICAL TAXIWAY BRANCH ID - TYPICAL APRON BRANCH ID

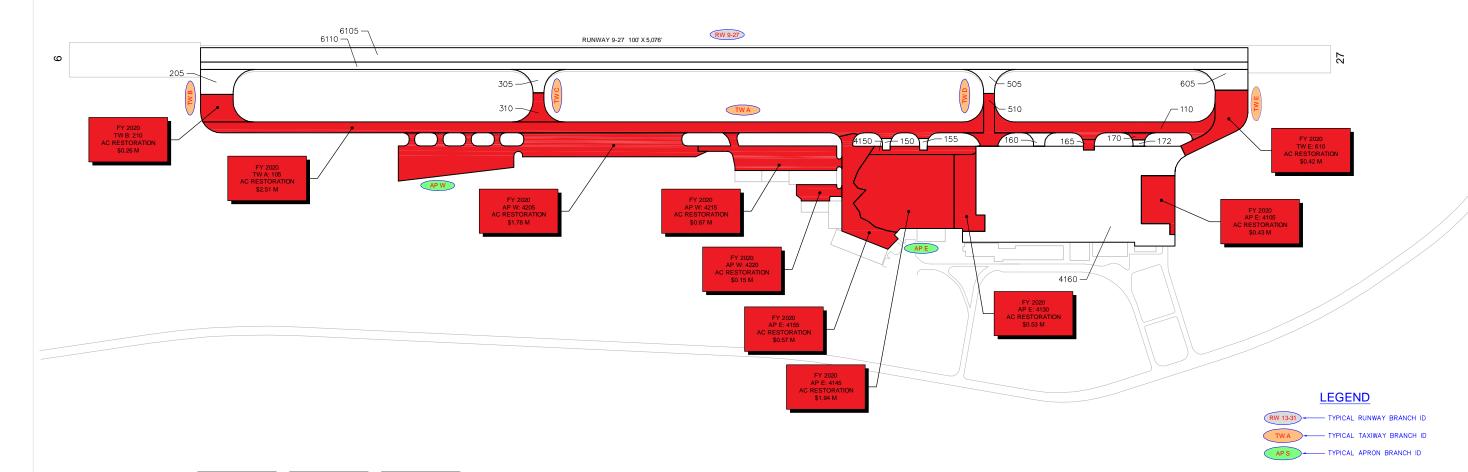
PCI 86-100 GOOD PCI 71-85 SATISFACTORY PCI 56-70 FAIR PCI 41-55 POOR PCI 26-40 VERY POOR PCI 11-25 SERIOUS PCI 0-10 FAILED











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

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

PROGRAM YEAR

2026

2028

2027

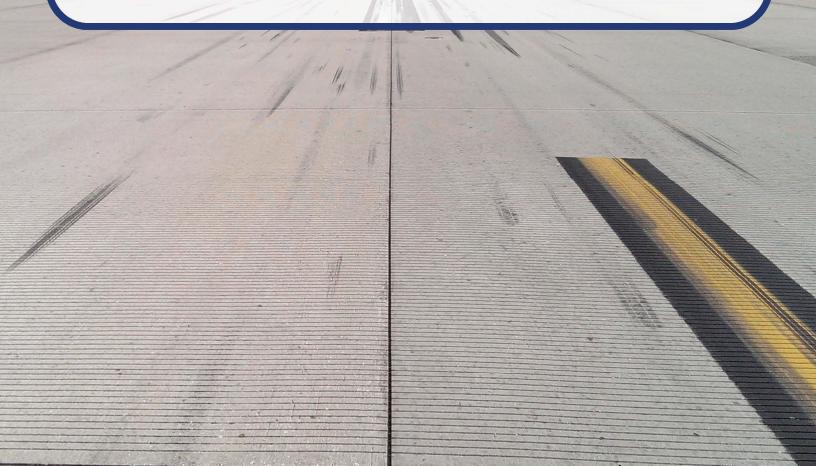
2021

2022



Appendix D

Inspection Photograph Documentation









TW A, Section 105, Sample Unit 111 - Low Severity (48) Longitudinal & Transverse Cracking and Medium Severity (57) Weathering



TW A, Section 110, Sample Unit 137 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Low Severity (57) Weathering







TW B, Section 210, Sample Unit 401 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Medium Severity (52) Raveling



AP E, Section 4155, Sample Unit 816 - Low Severity (48) Longitudinal & Transverse Cracking, (55) Slippage Cracking, and Low Severity (57) Weathering





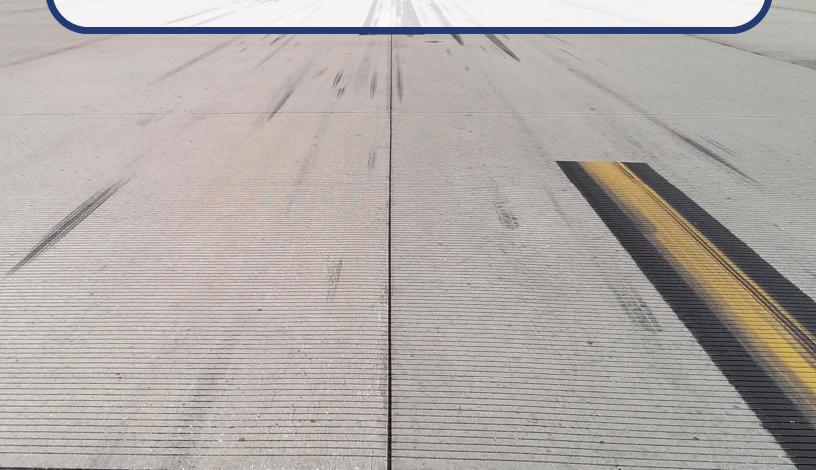


AP W, Section 4205, Sample Unit 102 - Low Severity (41) Alligator Cracking, Low Severity (45) Depression, and Low and Medium Severity (52) Raveling



Appendix E

Inspection Distress Details



Re-Inspection Report

FDOT

43

52

42

56

BLOCK CR

RAVELING

BLEEDING

SWELLING

L

L

N L 3750.00 SqFt

5550.00 SqFt

21.00 SqFt

36.00 SqFt

Generated Date 10/3/2019 Page 1 of 33

Generated	Date		10/3/2019]	Page 1 of 3
Network:	EYW				Name:	KEY	WEST INT	ERNATIONAL A	IRPORT			
Branch:	AP E		Name:	EAST A	PRON		Use:	APRON	Area:	656,920	SqFt	
Section:	4105	of	6 1	From: -				То: -		Last	Const.:	1/1/2003
Surface:	AAC	Family: (C9N59-PR-AF	P-AAC-APC	Zone:			Category:		Ranl	k: P	
Area:	34,8	310 SqFt	Length:		153 Ft		Width:	220 Ft				
Slabs:		Slab Lengt	h:	Ft	Slal	Width:		Ft	Joint L	ength:	Ft	
Shoulder:		Street Type	e:		Gra	ide: 0			Lanes:	0		
Section Co	omments:											
Work Date	e: 1/1/1989	Wor	k Type: BUII	T			C	ode: IMPORTEI) Is N	Major M&R:	True	
Work Date	e: 1/1/2003	Wor	k Type: Over	lay - AC Stru	ıctural		C	ode: OL-AS	Is N	Major M&R:	True	
Work Date	e: 1/1/2005	Wor	k Type: Surfa	ace Treatmen	t - Grip Fle	x	C	ode: ST-GF	Is N	Major M&R:	False	
Last Insp.	Date: 7/29/201	19	TotalS	amples: 7			Surveye	d: 1				
Conditions	s: PCI: 47											
Inspection	Comments:											
Sample Nu	ımber: 500	Type:	R	Ar	·ea:	5550	0.00 SqFt	PCI:	47			
Sample Co	omments:											
45 DEI	PRESSION		L	148.00	SqFt							
	t T CR		L	339.00								
42 DI (OCIZ OD		т	2750.00	3 154							

Network: EYW		Name:	KEY WEST INT	ERNATIONAL AIRP	ORT	
Branch: AP E	Name:	EAST APRON	Use:	APRON	Area: 656,92	0 SqFt
Section: 4130	of 6 F	rom: -		То: -	La	st Const.: 1/1/2003
Surface: AAC	Family: C9N59-PR-AP-	AAC-APC Zone:		Category:	Ra	nk: P
Area:	37,772 SqFt Length:	375 Ft	Width:	100 Ft		
Slabs:	Slab Length:	Ft Slab	Width:	Ft	Joint Length:	Ft
Shoulder:	Street Type:	Grad	le: 0		Lanes: 0	
Section Comments:						
Work Date: 1/1/1980	Work Type: BUIL	Γ	Co	ode: IMPORTED	Is Major M&R	: True
Work Date: 1/1/1989	Work Type: REPA	IR	Co	ode: IMPORTED	Is Major M&R	: False
Work Date: 1/1/2003	Work Type: Overl	ay - AC Structural	Co	ode: OL-AS	Is Major M&R	: True
Work Date: 1/1/2005	Work Type: Surface	ee Treatment - Grip Flex	Co	ode: ST-GF	Is Major M&R	: False
Last Insp. Date: 7/2	9/2019 TotalSa	mples: 8	Surveye	d: 1		
Conditions: PCI:	42					
Inspection Comments	: :					
Sample Number: 71	1 Type: R	Area:	5800.00 SqFt	PCI: 42		
Sample Comments:						
	M	16.00 SqFt				
50 PATCHING	L	196.00 Ft				
		10.00 SqFt				
	N	10.00 Dq1 t				
48 L & T CR	N M	2320.00 SqFt				

Netwo	rk: EYW			Name:	KEY WEST IN	 ΓERNATIONAL AIF	RPORT	
Brancl		1	Name: EAST	APRON	Use:	APRON	Area:	656,920 SqFt
Section	n: 4145	of 6	From:	-		То: -		Last Const.: 1/1/20
Surfac	e: AAC	Family: C9N:	59-PR-AP-AAC-APC	Zone:		Category:		Rank: P
Area:	145,77	1 SaFt	Length:	430 Ft	Width:	338 Ft		
Slabs:	- ,	Slab Length:	Ft	Slab V		Ft	Joint Len	gth: Ft
Should	ler:	Street Type:		Grade	: 0		Lanes:	0
Section	Comments:	•						
Work	Date: 1/1/1977	Work Ty	pe: BUILT		(Code: IMPORTED	Is Ma	njor M&R: True
Work	Date: 1/1/1989	Work Ty	pe: REPAIR		(Code: IMPORTED	Is Ma	njor M&R: False
Work	Date: 1/1/2003	Work Ty	pe: Overlay - AC St	ructural	(Code: OL-AS	Is Ma	njor M&R: True
Work	Date: 1/1/2005	Work Ty	pe: Surface Treatme	nt - Grip Flex	(Code: ST-GF	Is Ma	ijor M&R: False
Last Ir	sp. Date: 7/29/2019		TotalSamples:	30	Survey	ed: 3		
Condi	ions: PCI: 44							
Inspec	tion Comments:							
Sample	e Number: 313	Type:	R A	rea:	5000.00 SqFt	PCI: 39	9	
Sample	e Comments:							
45	DEPRESSION	L	202.00	SqFt				
43	BLOCK CR	L	5000.00	SqFt				
	RAVELING	M						
	RAVELING	L	3750.00					
49	OIL SPILLAGE	N	10.00	SqFt				
Sampl	e Number: 512	Type:	R A	rea:	5000.00 SqFt	PCI: 39	9	
Sampl	e Comments:							
52	RAVELING	L	3750.00	SqFt				
	OIL SPILLAGE	N		_				
	RAVELING	M		_				
	BLEEDING	N		_				
	DEPRESSION	L	1.00					
43	BLOCK CR	L	5000.00	SqFt				
Sampl	e Number: 715	Type:	R A	rea:	5000.00 SqFt	PCI: 54	4	
Sampl	e Comments:							
45	DEPRESSION	L	110.00	SqFt				
52	RAVELING	L	3750.00	SqFt				
42	BLEEDING	N	6.00	SqFt				
	RAVELING	M	1250.00	SaFt				
52	ICA VELINO		1200.00	5qr t				

KEY WEST INTERNATIONAL AIRPORT Network: EYW Name: **Branch:** AP E EAST APRON Use: APRON 656,920 SqFt Name: Area: Section: 4150 of 6 **Last Const.:** 1/1/2003 From: To: -Surface: AC Family: C9N59-PR-AP-AC Zone: Category: Rank: P Area: 16,824 SqFt Length: 38 Ft Width: 478 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: Lanes: **Section Comments:** Work Date: 1/1/2003 Work Type: New Construction - Initial Code: NU-IN Is Major M&R: True **Last Insp. Date:** 7/29/2019 TotalSamples: 4 Surveyed: 1 **Conditions: PCI:** 35 **Inspection Comments: PCI:** 35 Sample Number: 114 Type: R 6125.00 SqFt Area: **Sample Comments:** 48 L & T CR L 222.00 Ft 52 RAVELING M 1531.00 SqFt BLOCK CR 43 L 4288.00 SqFt BLEEDING N 11.00 SqFt 42 RAVELING 4594.00 SqFt 52 L DEPRESSION L 373.00 SqFt 45 41 ALLIGATOR CR L 18.00 SqFt

Network: EYW		Name:	KEY WEST INT	TERNATIONAL AIF	RPORT	
Branch: AP E	Name:	EAST APRON	Use:	APRON	Area:	656,920 SqFt
Section: 4155	of 6	From: -		То: -		Last Const.: 1/1/2005
Surface: AAC Fa	mily: C9N59-PR-A	P-AAC-APC Zone:		Category:		Rank: P
Area: 51,364 S	qFt Length :	: 685 Ft	Width:	75 Ft		
Slabs: S	lab Length:	Ft Sla	b Width:	Ft	Joint	Length: Ft
Shoulder: S	treet Type:	Gr	ade: 0		Lanes	s: 0
Section Comments:	• •					
Work Date: 1/1/1977	Work Type: BU	ILT	C	Code: IMPORTED	Is	s Major M&R: True
Work Date: 1/1/1989	Work Type: REI	PAIR	C	Code: IMPORTED	Is	s Major M&R: False
Work Date: 1/1/2003	Work Type: Ove	erlay - AC Structural	C	Code: OL-AS	Is	s Major M&R: True
Work Date: 1/1/2005	Work Type: MII	LL and OVERLAY	C	Code: ML-OV	Is	s Major M&R: True
Last Insp. Date: 7/29/2019	Total	Samples: 12	Surveyo	ed: 2		
Conditions: PCI: 58						
Inspection Comments:	Type: R	Area:	3848.00 SaFt	PCI: 6	2	
	Type: R	Area:	3848.00 SqFt	PCI: 6	2	
Inspection Comments: Sample Number: 316 Sample Comments:			3848.00 SqFt	PCI: 6.	2	
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING	Type: R L M	Area: 577.00 SqFt 2886.00 SqFt	3848.00 SqFt	PCI: 6	2	
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING	L	577.00 SqFt	3848.00 SqFt	PCI: 6	2	
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING	L M	577.00 SqFt 2886.00 SqFt 385.00 SqFt	3848.00 SqFt	PCI: 6	2	
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING	L M L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt	3848.00 SqFt	PCI: 6	2	
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING	L M L	577.00 SqFt 2886.00 SqFt 385.00 SqFt	3848.00 SqFt	PCI: 6	2	
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION	L M L L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt	3848.00 SqFt 5718.00 SqFt	PCI: 6		
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR	L M L L L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816	L M L L L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816 Sample Comments:	L M L L L L Type: A	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft Area:				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816 Sample Comments: 41 ALLIGATOR CR	L M L L L L L L L L L L L L L L L L L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft Area:				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816 Sample Comments: 41 ALLIGATOR CR 50 PATCHING 45 DEPRESSION	L M L L L L L L L M	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft Area: 39.00 SqFt 215.00 SqFt				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816 Sample Comments: 41 ALLIGATOR CR 50 PATCHING 45 DEPRESSION	L M L L L L L L L L L M L L M L L M L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft Area: 39.00 SqFt 215.00 SqFt 34.00 SqFt				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816 Sample Comments: 41 ALLIGATOR CR 50 PATCHING 45 DEPRESSION 48 L & T CR	L M L L L M L L L L L L L L L L L L L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft Area: 39.00 SqFt 215.00 SqFt 34.00 SqFt 692.00 Ft 550.00 SqFt				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816 Sample Comments: 41 ALLIGATOR CR 50 PATCHING 45 DEPRESSION 48 L & T CR 50 PATCHING 45 DEPRESSION 48 L & T CR 50 PATCHING 51 RAVELING 52 RAVELING 53 WEATHERING	L M L L L L L L L L L L L L L L L L L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft Area: 39.00 SqFt 215.00 SqFt 34.00 SqFt 692.00 Ft 550.00 SqFt 3852.00 SqFt				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816 Sample Comments: 41 ALLIGATOR CR 50 PATCHING 45 DEPRESSION 48 L & T CR 50 PATCHING 50 PATCHING 51 PATCHING 52 RAVELING 55 WEATHERING 55 SLIPPAGE CR	L M L L L M M L L L L L L L L L L L L L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft Area: 39.00 SqFt 215.00 SqFt 34.00 SqFt 692.00 Ft 550.00 SqFt 3852.00 SqFt 140.00 SqFt				
Inspection Comments: Sample Number: 316 Sample Comments: 57 WEATHERING 57 WEATHERING 52 RAVELING 53 RUTTING 45 DEPRESSION 48 L & T CR Sample Number: 816 Sample Comments: 41 ALLIGATOR CR 50 PATCHING 45 DEPRESSION 48 L & T CR 50 PATCHING 45 DEPRESSION 48 L & T CR 50 PATCHING 51 RAVELING 52 RAVELING 53 WEATHERING	L	577.00 SqFt 2886.00 SqFt 385.00 SqFt 56.00 SqFt 9.00 SqFt 306.00 Ft Area: 39.00 SqFt 215.00 SqFt 34.00 SqFt 692.00 Ft 550.00 SqFt 3852.00 SqFt				

Netwo	ork: EYW					Nam	e: KEY	Y WEST II	NTERN	ATIONAL AI	RPORT	,			
Branc			Na	ame: E	EAST	APRON		Use		PRON	Are		656,920) SqFt	
Section	on: 4160	of 6	5	From	:	-				To: -			Las	t Const.:	10/1/2018
Surfa	ce: PCC Fa	amily: C	9N59	PR-AP-AAC	C-APO	Zone	:			Category:			Rai	ık: P	
Area:	370,379 S	•		ength:		493 Ft		Width:		911 Ft					
Slabs		lab Length		_	5 Ft		Slab Width:		15	Ft		Joint Lengtl	h•	58,479 Ft	r
Shoul	ŕ	Street Type:		-			Grade: 0		10			Lanes: (00,.,, 1	
	on Comments:	street Type.	•				Grauc. 0					Lanes.	,		
	Date: 1/1/1980			e: BUILT						IMPORTED		Is Majo			
	Date: 1/1/1989			e: REPAIR						IMPORTED		Is Majo			
	Date: 1/1/2003			e: Overlay - A						OL-AS		Is Majo			
	Date: 1/1/2005			e: Surface Tr						ST-GF		Is Majo			
	x Date: 10/1/2018	Work	Тур	e: Complete l			ı - PCC			CR-PC		Is Majo	r M&R:	True	
	Insp. Date: 3/23/2015 itions: PCI: 50			TotalSample			Pre-Constru		eyed: 1	12					
	ction Comments:														
Samp	le Number: 203	Type:		R	A	rea:	5000	0.00 SqFt		PCI: 9	96				
Samp	le Comments:														
48	L & T CR		L	2	0.00	Et									
	ele Number: 204	Type:		R		\rea:	5000).00 SqFt		PCI: 3	34				
_	ele Comments:	турс.		K	1	ıı ca.	3000	7.00 Bqr t		101.	, ı				
52	RAVELING		L	468	00.00	SqFt									
55	SLIPPAGE CR		N			SqFt									
55	SLIPPAGE CR		N			SqFt									
43	BLOCK CR		L	468	0.00	SqFt									
49 50	OIL SPILLAGE		N			SqFt									
50	PATCHING	Т	L			SqFt	5000) 00 C-E4		DCI. (:1				
-	le Number: 307 le Comments:	Туре:		R	F	Area:	3000).00 SqFt		PCI: 6	01				
48	L & T CR		L	11	6.00	Et									
49	OIL SPILLAGE		N			SqFt									
52	RAVELING		L			SqFt									
43	BLOCK CR		L			SqFt									
43	BLOCK CR		L	31	2.00	SqFt									
-	ole Number: 309	Type:		R	A	Area:	6725	5.00 SqFt		PCI: 4	19				
-			т	20	0.00	C. E									
43 49	BLOCK CRACKING OIL SPILLAGE		L N			SqFt SqFt									
52	RAVELING		L			SqFt									
48	LONGITUDINAL/TRA	NSVERSE			9.00	-									
48	LONGITUDINAL/TRA	NSVERSE	L		2.00										
52	RAVELING		M			SqFt									
43	BLOCK CRACKING	700	L			SqFt	5000) 00 G E		DCI /	70				
_	le Number: 313 le Comments:	Type:		R	F	Area:	5000	0.00 SqFt		PCI: 6	9				
52	RAVELING		L	500	0.00	SqFt									
48	L & T CR		L	13	7.00	Ft									
Samp	le Number: 405	Type:		R	A	Area:	5000	0.00 SqFt		PCI: 4	19				
Samp	le Comments:														
12	BLOCK CR		L	500	0.00	SqFt									
43	OIL SPILLAGE		N			SqFt									

49	OIL SPILLAGE	N	20.00				
42	BLEEDING	N	9.00	SqFt			
49	OIL SPILLAGE	N	45.00	SqFt			
52	RAVELING	L	5000.00	•			
45	DEPRESSION	L	35.00	-			
		L					
Sampl	e Number: 510 Type:		R A	Area:	5000.00 SqFt	PCI:	42
Sampl	e Comments:						
~ и							
42	BLEEDING	N	9.00	SqFt			
45	DEPRESSION	L		SqFt			
52	RAVELING	L	4250.00	SqFt			
49	OIL SPILLAGE	N	18.00	SqFt			
42	BLEEDING	N		SqFt			
				-			
49	OIL SPILLAGE	N	69.00				
49	OIL SPILLAGE	N	56.00				
42	BLEEDING	N		SqFt			
43	BLOCK CR	L	5000.00	SqFt			
52	RAVELING	M	750.00	SqFt			
Sampl	e Number: 703 Type:		R A	Area:	5000.00 SqFt	PCI:	14
					- 4		
Samp	e Comments:						
42	BLEEDING	N	10.00	SaFt			
50	PATCHING	L	171.00				
50	PATCHING	M	77.00				
48	L & T CR	L	107.00				
55	SLIPPAGE CR	N	900.00	-			
55	SLIPPAGE CR	N	207.00	SqFt			
55	SLIPPAGE CR	N	162.00	SqFt			
55	SLIPPAGE CR	N	60.00	SqFt			
43	BLOCK CR	L	552.00				
55	SLIPPAGE CR	N	176.00				
G 1					5000 00 G E	DCI.	45
_	e Number: 711 Type:		R A	Area:	5000.00 SqFt	PCI:	43
Sampl	e Comments:						
	D. 1 1971 D. 10						
52	RAVELING	M	750.00	-			
43	BLOCK CR	L	5000.00				
49	OIL SPILLAGE	N	10.00	SqFt			
52	RAVELING	L	4250.00	SqFt			
Sampl	e Number: 714 Type:		R A	\rea:	5750.00 SqFt	PCI:	55
•	• •				1		
Samp	e Comments:						
45	DEPRESSION	L	42.00	SaFt			
52	RAVELING	M	863.00				
45	DEPRESSION						
		L	18.00				
48	L & T CR	L	116.00				
45	DEPRESSION	L	25.00				
52	RAVELING	L	1250.00				
45	DEPRESSION	L	34.00	•			
43	BLOCK CR	L	60.00	SqFt			
48	L & T CR	L	209.00				
45	DEPRESSION	L	36.00				
	le Number: 805 Type:			\rea:	4700.00 SqFt	PCI:	46
_			IX P	11 Ca.	7/00.00 Sqrt	1 (1;	T ∪
Sampl	e Comments:						
5.5	SI IDDA CE CD	ŊŢ	64.00	CaEt			
55 52	SLIPPAGE CR	N	64.00				
52	RAVELING	L	4700.00				
53	RUTTING	L	90.00	-			
43	BLOCK CR	L	4700.00	SqFt			
Samp	e Number: 809 Type:		R A	Area:	6322.00 SqFt	PCI:	39
_	e Comments:				-		
Samp	a commence.						
45	DEPRESSION	L	39.00	SqFt			
42	BLEEDING	N		SqFt			
52	RAVELING	L	1645.00				
43	BLOCK CRACKING	L	1645.00	-			
43	BLOCK CRACKING			-			
	LONGITUDINAL/TRANSVERSE	L	1316.00 62.00				
10	TELEVICIONI DE LA CONTRACTOR DE LA CONTR		62.00	Гl			
48		171	02.00				
	CRACKING						
48 48			108.00				

	CRACKING			
52	RAVELING	M	1403.00	SqFt
52	RAVELING	L	3274.00	SqFt
45	DEPRESSION	L	21.00	SqFt
45	DEPRESSION	L	36.00	SqFt
45	DEPRESSION	L	51.00	SqFt

Netw				Name:		ERNATIONAL AII		
Bran	ch: AP W		Name:	WEST APRON	Use:	APRON	Area: 2	36,856 SqFt
Secti	on: 4205	of 3		From: -		То: -		Last Const.: 1/1/2003
Surfa	ace: AC	Family: C9	N59-PR	-AP-AC Zone:		Category:		Rank: P
Area	: 162,13	1 SqFt	Lengt	th: 1,325 Ft	Width:	120 Ft		
Slabs		Slab Length:	_	Ft Slab V	Vidth:	Ft	Joint Length:	Ft
	lder:	Street Type:		Grade			Lanes: 0	
	on Comments:	Street Type.		Grade	. 0		Lancs.	
Secti	on Comments:							
Wor	k Date: 1/1/2003	Work	Type: N	ew Construction - Initial	C	ode: NU-IN	Is Major	M&R: True
	k Date: 1/1/2015		Type: S	urface Treatment - Seal Coat		ode: ST-SC	Is Major	M&R: False
Last	Insp. Date: 7/29/2019		Tot	alSamples: 35	Surveye	ed: 6		
Cond	litions: PCI: 55							
Inspe	ection Comments:							
Sami	ole Number: 102	Type:	R	Area:	4464.00 SqFt	PCI: 3	9	
	ole Comments:	-) P - v				2 02.		
45	DEPRESSION		L	144.00 SqFt				
52	RAVELING		M	446.00 SqFt				
52 41	RAVELING ALLIGATOR CR		L L	446.00 SqFt 33.00 SqFt				
42	BLEEDING		N N	89.00 SqFt				
53	RUTTING		L	410.00 SqFt				
48	L & T CR		L	356.00 Ft				
Samj	ple Number: 108	Type:	R	Area:	4225.00 SqFt	PCI: 6	1	
Samj	ple Comments:							
42	BLEEDING		N	3.00 SqFt				
52	RAVELING		L	500.00 SqFt				
57	WEATHERING		L	755.00 SqFt				
50 48	PATCHING L & T CR		L L	450.00 SqFt 159.00 Ft				
4 8	WEATHERING		M	2520.00 SqFt				
53	RUTTING		L	70.00 SqFt				
Sami	ole Number: 118	Туре:	R	Area:	4225.00 SqFt	PCI: 7	0	
-	ple Comments:				1			
42	BLEEDING		N	2.00 SqFt				
57	WEATHERING		L	845.00 SqFt				
57	WEATHERING		M	2957.00 SqFt				
48	L & T CR		L	231.00 Ft				
52	RAVELING		L	423.00 SqFt				
	ple Number: 405	Type:	R	Area:	6939.00 SqFt	PCI: 5	1	
Samj	ple Comments:							
42	BLEEDING		N	45.00 SqFt				
52	RAVELING		L	2082.00 SqFt				
50	PATCHING		L	9.00 SqFt				
48 41	L & T CR ALLIGATOR CR		L L	193.00 Ft 20.00 SqFt				
45	DEPRESSION		L	3.00 SqFt				
52	RAVELING		M	1388.00 SqFt				
Samı	ole Number: 414	Type:	R	Area:	5000.00 SqFt	PCI: 5	5	
	ole Comments:	↓ £ · · ·			1			
48	L & T CR		L	72.00 Ft				
52	RAVELING		L	3750.00 SqFt				
49	OIL SPILLAGE		N	43.00 SqFt				
52	RAVELING		M	1250.00 SqFt				
Samj	ole Number: 501	Туре:	R	Area:	5000.00 SqFt	PCI: 5	6	
Samj	ole Comments:							
52	RAVELING		M	1250.00 SqFt				

52	RAVELING	L	3750.00	SqFt
48	L & T CR	L	58.00	Ft
49	OIL SPILLAGE	N	10.00	SqFt

. 10011	ork: EYW		Name:	KEY WEST INT	ERNATIONAL AIRPO	ORT	
Bran	ch: AP W	Name:	WEST APRON	Use:	APRON	Area: 236,8	356 SqFt
Section	on: 4215	of 3	From: -		То: -	L	ast Const.: 1/1/2006
Surfa	ce: AC	Family: C9N59-PR-A	AP-AAC-APC Zone:		Category:	R	ank: P
Area	60,960) SqFt Length	: 635 Ft	Width:	100 Ft		
Slabs	:	Slab Length:	Ft Slab	Width:	Ft	Joint Length:	Ft
Shoul	der:	Street Type:	Grad	le: 0		Lanes: 0	
Section	on Comments:						
Work	Date: 1/1/2006	Work Type: Ne	w Construction - AC	C	ode: NC-AC	Is Major M&	R: True
Last	Insp. Date: 7/29/2019	Tota	Samples: 11	Surveye	ed: 2		
Cond	itions: PCI: 58						
Inspe	ction Comments:						
Samp	le Number: 505	Type: R	Area:	5500.00 SqFt	PCI: 60		
Samp	le Comments:						
		T	141.00 SqFt				
45	DEPRESSION	L					
45 49	DEPRESSION OIL SPILLAGE	L N	83.00 SqFt				
49 45	OIL SPILLAGE DEPRESSION		83.00 SqFt 27.00 SqFt				
49 45 57	OIL SPILLAGE DEPRESSION WEATHERING	N	83.00 SqFt 27.00 SqFt 4125.00 SqFt				
49 45 57 48	OIL SPILLAGE DEPRESSION WEATHERING L & T CR	N M L L	83.00 SqFt 27.00 SqFt 4125.00 SqFt 79.00 Ft				
49 45 57	OIL SPILLAGE DEPRESSION WEATHERING	N M L	83.00 SqFt 27.00 SqFt 4125.00 SqFt				
49 45 57 48 52	OIL SPILLAGE DEPRESSION WEATHERING L & T CR	N M L L	83.00 SqFt 27.00 SqFt 4125.00 SqFt 79.00 Ft	5800.00 SqFt	PCI: 55		
49 45 57 48 52 Samp	OIL SPILLAGE DEPRESSION WEATHERING L & T CR RAVELING	N M L L L	83.00 SqFt 27.00 SqFt 4125.00 SqFt 79.00 Ft 1375.00 SqFt	5800.00 SqFt	PCI: 55		
49 45 57 48 52 Samp	OIL SPILLAGE DEPRESSION WEATHERING L & T CR RAVELING le Number: 603	N M L L L	83.00 SqFt 27.00 SqFt 4125.00 SqFt 79.00 Ft 1375.00 SqFt	5800.00 SqFt	PCI: 55		
49 45 57 48 52 Samp	OIL SPILLAGE DEPRESSION WEATHERING L & T CR RAVELING le Number: 603 le Comments:	N M L L L Type: R	83.00 SqFt 27.00 SqFt 4125.00 SqFt 79.00 Ft 1375.00 SqFt Area:	5800.00 SqFt	PCI: 55		
49 45 57 48 52 Samp 53	OIL SPILLAGE DEPRESSION WEATHERING L & T CR RAVELING le Number: 603 le Comments: RUTTING	N M L L L Type: R	83.00 SqFt 27.00 SqFt 4125.00 SqFt 79.00 Ft 1375.00 SqFt Area:	5800.00 SqFt	PCI: 55		
49 45 57 48 52 Samp 53 48	OIL SPILLAGE DEPRESSION WEATHERING L & T CR RAVELING le Number: 603 le Comments: RUTTING L & T CR	N M L L L Type: R	83.00 SqFt 27.00 SqFt 4125.00 SqFt 79.00 Ft 1375.00 SqFt Area: 337.00 SqFt 104.00 Ft	5800.00 SqFt	PCI: 55		

EYW KEY WEST INTERNATIONAL AIRPORT Network: Name: **Branch:** AP W WEST APRON Use: APRON 236,856 SqFt Name: Area: Section: 4220 of 3 From: **Last Const.:** 1/1/2005 To: -Surface: ACFamily: C9N59-PR-AP-AC Zone: Category: Rank: P Area: 13,765 SqFt Length: 209 Ft Width: 65 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: Lanes: **Section Comments:** Work Date: 1/1/2005 Work Type: New Construction - AC Code: NC-AC Is Major M&R: True **Last Insp. Date:** 7/29/2019 **TotalSamples:** 3 Surveyed: 1 **Conditions: PCI:** 62 **Inspection Comments:** 4101.00 SqFt **PCI:** 62 Sample Number: 706 Type: R Area: **Sample Comments:** 50 PATCHING M 90.00 SqFt DEPRESSION L 121.00 SqFt 45 L & T CR L 48 115.00 Ft WEATHERING 2607.00 SqFt 57 M 401.00 SqFt 57 WEATHERING L 52 RAVELING L 1003.00 SqFt

N T :							, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. IMPT = -						
Netwo					Naı		Y WEST II		ATIONAL AIRP	ORT				
Brancl	h: RW 9-27		Na	me: RUN	WAY 9	-27	Use	: RU	JNWAY	Area:	4	80,000	SqFt	
Section	n: 6105	of 2	2	From:	-				To: -			Last	Const.:	4/1/2018
Surfac	e: AAC		9N59 PC	-PR-RW-AAC-	Zoi	ie:			Category:			Rank	: P	
Area:	312,000	0 SqFt	L	ength:	4,800	Ft	Width:		65 Ft					
Slabs:		Slab Length	ı:	Ft		Slab Width:			Ft	Jo	int Length:		I	⁷ t
Should	ler:	Street Type	:			Grade: 0				La	nes: 0			
Section	n Comments:													
Work	Date: 1/1/1952	Work	Тур	e: BUILT				Code:	IMPORTED		Is Major I	M&R:	True	
Work	Date: 1/1/1954	Work	Турс	e: OVERLAY				Code:	IMPORTED		Is Major I	M&R:	True	
Work !	Date: 1/1/1979	Work	Турс	e: OVERLAY				Code:	IMPORTED		Is Major I	M&R:	True	
Work	Date: 1/1/2003	Work	Тур	e: Overlay - AC S	tructura	1		Code:	OL-AS		Is Major I	M&R:	True	
	Date: 4/1/2018			e: MILL and OVI					ML-OV		Is Major I	M&R:	True	
	1sp. Date: 3/23/2015			TotalSamples:				eyed:	19					
Condit				N	OTE: *	** Pre-Constru	ction PCI	***						
Inspec	tion Comments:													
Sample	e Number: 100	Type:		R	Area:	3250	0.00 SqFt		PCI: 66					
Sample	e Comments:													
	RAVELING LONGITUDINAL/TR CRACKING	ANSVERSE	L L	3250.00 378.00	-									
Sample	e Number: 105	Type		R	Area:	2251	0.00 SqFt		PCI: 61					
_	e Comments:	Type:		K	Aica.	3231	7.00 Sqrt		rci. 01					
	RAVELING		L	3075.00	SqFt									
	RAVELING	ANGVEDCE	M		SqFt									
	LONGITUDINAL/TR CRACKING	ANSVERSE	L	307.00	rt									
Sample	e Number: 108	Type:		R	Area:	3250	0.00 SqFt		PCI: 59					
Sample	e Comments:													
52	RAVELING		M	325.00	SqFt									
52	RAVELING		L	2925.00										
	LONGITUDINAL/TR CRACKING	ANSVERSE	L	268.00) Ft									
Sample	e Number: 111	Type:		R	Area:	3250	0.00 SqFt		PCI: 59					
Sample	e Comments:													
52	RAVELING		L	3086.00	SqFt									
50	PATCHING		L	2.00	SqFt									
	RAVELING	ANGVEDGE	M		SqFt									
	LONGITUDINAL/TR CRACKING	ALINO V EKSE	L	352.00	rt									
Sample	e Number: 114	Type:		R	Area:	3250	0.00 SqFt		PCI: 55					
Sample	e Comments:													
50	PATCHING		L	20.00	SqFt									
52	RAVELING		L	2873.00	SqFt									
	PATCHING		L		SqFt									
	LONGITUDINAL/TR CRACKING	RANSVERSE		312.00										
	RAVELING PATCHING		M L		SqFt SqFt									
	e Number: 121	Туре:			Area:	3250	0.00 SqFt		PCI: 61					
_	e Comments:	V 1					1							
_	RAVELING		L	2762.00	SqFt									

52 48	RAVELING LONGITUDINAL/TRANSVERSE CRACKING	M L		488.00 163.00				
Samp	le Number: 128 Type:		R	A	rea:	3250.00 SqFt	PCI:	64
Samp	le Comments:							
52 48	RAVELING LONGITUDINAL/TRANSVERSE CRACKING	L L		2762.00 47.00	-			
52	RAVELING	M		488.00	SqFt			
Samp	le Number: 135 Type:		R	A	rea:	3250.00 SqFt	PCI:	58
Samp	le Comments:							
52	RAVELING	M		488.00	_			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		244.00	Ft			
52	RAVELING	L		2762.00	SqFt			
Samp	le Number: 142 Type:		R	A	rea:	3250.00 SqFt	PCI:	54
Samp	le Comments:							
52	RAVELING	Н		39.00	SqFt			
52	RAVELING	L		2729.00				
52	RAVELING	M		482.00				
48	LONGITUDINAL/TRANSVERSE CRACKING	L		255.00	Ft			
Samp	le Number: 149 Type:		R	A	rea:	3250.00 SqFt	PCI:	61
Samp	le Comments:							
52	RAVELING	L		2925.00	SaFt			
48	LONGITUDINAL/TRANSVERSE			223.00	_			
	CRACKING							
52	RAVELING	M		325.00	SqFt			
Samp	le Number: 156 Type:		R	A	rea:	3250.00 SqFt	PCI:	60
Samp	le Comments:							
52 48	RAVELING LONGITUDINAL/TRANSVERSE CRACKING	M L		325.00 232.00	-			
56	SWELLING	L			SqFt			
52	RAVELING	L		2925.00	SqFt			
-	le Number: 163 Type: le Comments:		R	A	rea:	3250.00 SqFt	PCI:	65
48	LONGITUDINAL/TRANSVERSE	L		108.00	Ft			
52	CRACKING RAVELING	M		325.00	SaFt			
52	RAVELING	L		2925.00	-			
Samp	le Number: 170 Type:		R		rea:	3250.00 SqFt	PCI:	65
_	le Comments:							
52	RAVELING	L		2925.00	SqFt			
52	RAVELING	M		325.00	_			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		112.00	Ft			
Samp	le Number: 177 Type:		R	A	rea:	3250.00 SqFt	PCI:	61
_	le Comments:							
_		т		2025.00	Ç∝E+			
52 48	RAVELING LONGITUDINAL/TRANSVERSE	L L		2925.00 210.00				
	CRACKING							
52	RAVELING	M		325.00				
_	le Number: 184 Type: le Comments:		R	A	rea:	3250.00 SqFt	PCI:	63
52 48	RAVELING LONGITUDINAL/TRANSVERSE	M L		162.00 259.00	-			
	CRACKING							
52	RAVELING	L		3088.00	SqFt			

Samp	ple Number: 187 Type:		R	Area:	3250.00 SqFt	PCI:	64
Samp	ple Comments:						
52	RAVELING	L		3022.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		190.00 Ft			
52	RAVELING	M		228.00 SqFt			
Samj	ple Number: 190 Type:		R	Area:	3250.00 SqFt	PCI:	45
Samp	ple Comments:						
52	RAVELING	L		3022.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		1543.00 Ft			
52	RAVELING	M		228.00 SqFt			
Samj	ple Number: 193 Type:		R	Area:	3250.00 SqFt	PCI:	56
Samj	ple Comments:						
52	RAVELING	L		3087.00 SqFt			
52	RAVELING	M		163.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		555.00 Ft			
Samj	ple Number: 195 Type:		R	Area:	3250.00 SqFt	PCI:	59
Samp	ple Comments:						
52	RAVELING	M		163.00 SqFt			
52	RAVELING	L		3087.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		139.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L		273.00 Ft			

Nat	ork: EYW			NT	MO VEV WEGT	NTERNATIONAL	A ID DODT		
Netw		NT.	me: RUNV	Nai VAY 9				400.000	SaEt
Bran					-27 Uso		Area:		
Secti			From:	-		То: -			Const.: 4/1/2018
Surfa	•	9N59. PC	-PR-RW-AAC-	Zoi	ie:	Category:		Ran	k: P
Area	168,000 SqFt	L	ength:	4,800	Ft Width:	35 F	t		
Slabs	: Slab Length	1:	Ft		Slab Width:	Ft	J	Joint Length:	Ft
Shou	lder: Street Type	:			Grade: 0		I	Lanes: 0	
Secti	on Comments:								
Worl	a Date: 1/1/1954 Work	Туре	: BUILT			Code: IMPORTE	ED	Is Major M&R:	True
Worl	A Date: 1/1/1979 Work	Туре	: OVERLAY			Code: IMPORTE	ED	Is Major M&R:	True
Worl	C Date: 1/1/2003 Work	Туре	: Overlay - AC St	ructura	1	Code: OL-AS		Is Major M&R:	True
Worl	a Date: 4/1/2018 Work	Туре	: MILL and OVE	RLAY		Code: ML-OV		Is Major M&R:	True
Last	Insp. Date: 3/23/2015		TotalSamples:	48	Surve	eyed: 8			
Cond	itions: PCI: 57		NO	TE: <mark>*</mark>	** Pre-Construction PC	***			
Inspe	ction Comments:								
Samı	le Number: 300 Type:		R	Area:	3500.00 SqFt	PCI:	58		
Samp	le Comments:								
48	LONGITUDINAL/TRANSVERSE CRACKING		473.00						
52 52	RAVELING RAVELING	M L	175.00 3325.00						
Samp	de Number: 305 Type:		R A	Area:	3500.00 SqFt	PCI:	62		
Samp	le Comments:								
52	RAVELING	M	175.00	SqFt					
52	RAVELING	L	3325.00						
48	LONGITUDINAL/TRANSVERSE CRACKING	L	308.00	Ft					
Samp	le Number: 310 Type:		R A	Area:	3500.00 SqFt	PCI:	68		
Samp	le Comments:								
45	DEPRESSION	L	8.00	SqFt					
48	LONGITUDINAL/TRANSVERSE	L	289.00	Ft					
52	CRACKING RAVELING	M	79 00	SqFt					
52	RAVELING	L	1510.00						
Samı	le Number: 320 Type:			Area:	3500.00 SqFt	PCI:	59		
_	ele Comments:				•				
48	LONGITUDINAL/TRANSVERSE CRACKING	L	425.00						
52	RAVELING	L	3325.00						
52	RAVELING	M	175.00		A		50		
	ole Number: 325 Type: ole Comments:		R	Area:	3500.00 SqFt	PCI:	53		
49	OIL SPILLAGE	N	8 00	SqFt					
52	RAVELING	L	3149.00						
50	PATCHING	L	1.00	SqFt					
48	LONGITUDINAL/TRANSVERSE	L	273.00	Ft					
48	CRACKING LONGITUDINAL/TRANSVERSE CRACKING	L	118.00	Ft					
52	RAVELING	M	350.00	SqFt					
Samı	le Number: 330 Type:			Area:	3500.00 SqFt	PCI:	57		
Samp	le Comments:								
52	RAVELING	L	3325.00	SqFt					

48	LONGITUDINAL/TRANSVERSE CRACKING	L	254.00 Ft			
52	RAVELING	M	175.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L	248.00 Ft			
Sam	ple Number: 340 Type:	I	R Area:	3500.00 SqFt	PCI: 41	
Sam	ple Comments:					
48	LONGITUDINAL/TRANSVERSE CRACKING	L	534.00 Ft			
45	DEPRESSION	L	5.00 SqFt			
52	RAVELING	M	1100.00 SqFt			
45	DEPRESSION	L	24.00 SqFt			
52	RAVELING	L	2400.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L	80.00 Ft			
Sam	ple Number: 345 Type:	I	R Area:	3500.00 SqFt	PCI: 57	
Sam	ple Comments:					
52	RAVELING	L	3150.00 SqFt			
52	RAVELING	M	350.00 SqFt			
48	LONGITUDINAL/TRANSVERSE CRACKING	L	171.00 Ft			
48	LONGITUDINAL/TRANSVERSE CRACKING	L	207.00 Ft			

Netwo	ork: EYW				Nai	ne: KF	Y WEST IN	TERNAT	TIONAL AIR	PORT			
Branc			Name:	TAXI	WAY A		Use:		IWAY	Area		,612 SqFt	
Section		of 2		From:		-			D: -			Last Const.	1/1/2002
Surfa				TW-AAC-	Zor				o: - ategory:			Last Const. Rank: P	. 1/1/2003
Suria	ice: AAC		9N39-PR- PC	I W-AAC-	Zoi	ie:		C	ategory:			капк; Р	
Area:	184,302	2 SqFt	Lengt	h:	3,575	Ft	Width:		50 Ft				
Slabs	:	Slab Length	:	Ft		Slab Width:		Ft			Joint Length:]	Ft
Shoul	lder:	Street Type:				Grade: 0					Lanes: 0		
Sectio	on Comments:												
Work	Date: 1/1/1957	Work	Type: B	UILT			(Code: I	MPORTED		Is Major Ma	&R: True	
Work	Date: 1/1/1979	Work	Type: O	VERLAY			(Code: I	MPORTED		Is Major Ma	&R: True	
Work	x Date: 1/1/2003	Work	Type: O	verlay - AC S	tructura	1	(Code: C	DL-AS		Is Major Ma	&R: True	
Last I	Insp. Date: 7/29/2019		Tota	alSamples:	36		Survey	red: 6					
Condi	itions: PCI: 42												
Inspe	ction Comments:												
Samp	ole Number: 105	Type:	R	1	Area:	5000	0.00 SqFt		PCI: 51				
Samp	ole Comments:												
42	BLEEDING		N	4.00	SqFt								
52	RAVELING		L	500.00	SqFt								
57	WEATHERING		M	4500.00	-								
48	L & T CR		L	244.00									
53 Samn	RUTTING ole Number: 111	Type:	L R	1000.00	SqFt Area:	5000	0.00 SqFt		PCI: 25				
_	ole Comments:	Type.	K	1	Aica.	3000	o.oo sqrt		101. 23				
53	RUTTING		M	210.00	SqFt								
53	RUTTING		Н		SqFt								
56	SWELLING		L		SqFt								
57	WEATHERING		M	4500.00									
53	RUTTING		L	1220.00	-								
52 48	RAVELING L & T CR		L L	500.00 563.00	-								
	ole Number: 117	Type:	R		Area:	5000	0.00 SqFt		PCI: 38				
-	ole Comments:	Type.	K	1	ii ca.	3000	0.00 Bq1 t		161. 30				
53	RUTTING		L	1400.00	SaEt								
52	RAVELING		L	500.00	_								
48	L & T CR		L	534.00									
56	SWELLING		L	100.00	SqFt								
41	ALLIGATOR CR		L		SqFt								
57	WEATHERING		M	4500.00									
_	ole Number: 125 ole Comments:	Type:	R	1	Area:	5000	0.00 SqFt		PCI: 47				
_			м	4500.00	C F								
57 48	WEATHERING L & T CR		M L	4500.00 335.00	-								
48 53	RUTTING		L L	1500.00									
52	RAVELING		L	500.00	-								
	ole Number: 131	Type:	R		Area:	6353	3.00 SqFt		PCI: 49				
	le Comments:	, , , , , , , , , , , , , , , , , , ,					•						
52	RAVELING		M	127.00									
48	L & T CR		L	438.00									
52	RAVELING		L	953.00	-								
53 42	RUTTING BLEEDING		L N	1500.00	SqFt SqFt								
	ole Number: 133	Type:	R		Area:	5589	8.00 SqFt		PCI: 41				
	ole Comments:	rype.	K	1		3360	o.oo bqi t		101, 41				
			т	1000.00	C-E								
53	RUTTING		L	1223.00	SqFt								

52	RAVELING	L	838.00	SqFt
57	WEATHERING	M	4750.00	SqFt
53	RUTTING	M	77.00	SqFt
48	L & T CR	L	465.00	Ft

Network: EYW		Name	E: KEY WESTINI	TERNATIONAL AIR	.rUK1	
Branch: TW A	Na	me: TAXIWAY A	Use:	TAXIWAY	Area:	241,612 SqFt
Section: 110	of 2	From: -		То: -		Last Const.: 1/11/200
Surface: AAC	Family: C9N59-APC	PR-TW-AAC- Zone	:	Category:		Rank: P
Area: 57,31	0 SqFt Le	ength: 1,100 Ft	Width:	50 Ft		
Slabs:	Slab Length:	Ft	Slab Width:	Ft	Joint I	Length: Ft
Shoulder:	Street Type:		Grade: 0		Lanes:	0
Section Comments:						
Work Date: 1/1/1979	Work Type	: BUILT	C	ode: IMPORTED	Is	Major M&R: True
Work Date: 1/11/2003	Work Type	: Overlay - AC Structural	C	ode: OL-AS	Is	Major M&R: True
Last Insp. Date: 7/29/2019)	TotalSamples: 12	Surveye	ed: 3		
Conditions: PCI: 42						
Inspection Comments:						
Sample Number: 137	Type:	R Area:	5002.00 SqFt	PCI: 23	;	
Sample Comments:						
57 WEATHERING	M	3729.00 SqFt				
53 RUTTING	M	152.00 SqFt				
41 ALLIGATOR CR	L	12.00 SqFt				
48 L & T CR	M	14.00 Ft				
53 RUTTING	Н	160.00 SqFt				
50 PATCHING	M	30.00 SqFt				
53 RUTTING	L	1088.00 SqFt				
42 BLEEDING	N	10.00 SqFt				
52 RAVELING	L	746.00 SqFt				
48 L & T CR	L	559.00 Ft				
57 WEATHERING	L	497.00 SqFt				
Sample Number: 140	Туре:	R Area:	5000.00 SqFt	PCI: 64	ļ	
Sample Comments:						
52 RAVELING	L	500.00 SqFt				
48 L & T CR	L	597.00 Ft				
52 RAVELING	M	12.00 SqFt				
Sample Number: 144	Type:	R Area:	5001.00 SqFt	PCI: 38	3	
Sample Comments:						
53 RUTTING	M	190.00 SqFt				
57 WEATHERING	M	3393.00 SqFt				
53 RUTTING	L	615.00 SqFt				
57 WEATHERING	L	1131.00 SqFt				
50 PATCHING	L	477.00 SqFt				
48 L & T CR	L	535.00 Ft				

Network:	EYW				Name	: KEY	WEST INT	ERNATIO	NAL AIRP	ORT		
Branch:	TW A10		Name:	TAXIV	VAY A1	0	Use:	TAXIWA	AY	Area:	2,531 SqFt	
Section:	165	of	f 1	From: -				To:	-		Last Const.:	1/1/2014
Surface:	PCC	Family:	C9N59-PR-R	W-TW-PCC	Zone:			Categ	gory:		Rank: P	
Area:	2,5	31 SqFt	Length:		120 Ft		Width:		50 Ft			
Slabs:	8	Slab Len	gth:	25 Ft	5	Slab Width:		12 Ft		Joint Length:	570 F	t
Shoulder:		Street Ty	vpe:		(Grade: 0				Lanes: 0		
Section Co	omments:											
Work Dat	e: 1/1/2003	W	ork Type: New	Construction	n - AC		C	ode: NC-	AC	Is Major	M&R: True	
Work Dat	e: 1/1/2014	W	ork Type: Con	plete Recons	struction	- PCC	C	ode: CR-I	PC PC	Is Major	M&R: True	
Last Insp.	Date: 7/29/201	9	Totals	Samples: 1			Surveye	e d: 1				
Condition	s: PCI : 61											
Inspection	Comments:											
Sample Ni	umber: 401	Тур	oe: R	A	rea:	(5.00 Slabs]	PCI: 61			
Sample Co	omments:											
62 CO	RNER BREAK		L	1.00	Slabs							
74 JOI	INT SPALL		M	1.00	Slabs							
65 JT	SEAL DMG		H	6.00	Slabs							
67 LA	RGE PATCH		L	2.00	Slabs							
74 JOI	INT SPALL		L	1.00								

EYW KEY WEST INTERNATIONAL AIRPORT Network: Name: **Branch:** TW A11 TAXIWAY A11 Use: TAXIWAY 4,158 SqFt Name: Area: Section: 170 of 2 **Last Const.:** 1/1/2003 From: To: Surface: ACFamily: C9N59-PR-AP-AC Zone: Category: Rank: P Area: 2,633 SqFt Length: 32 Ft Width: 55 Ft Slabs: Slab Length: Ft Slab Width: Ft Joint Length: Ft Shoulder: **Street Type:** Grade: Lanes: **Section Comments:** Work Date: 1/1/2003 Work Type: New Construction - Initial Code: NU-IN Is Major M&R: True **Last Insp. Date:** 7/29/2019 TotalSamples: 1 Surveyed: 1 **Conditions: PCI:** 43 **Inspection Comments: PCI:** 43 Sample Number: 500 Type: R 2633.00 SqFt Area: **Sample Comments:** 50 PATCHING L 620.00 SqFt BLEEDING N 70.00 SqFt 42 L & T CR 48 L 235.00 Ft WEATHERING 1510.00 SqFt 57 M 302.00 SqFt 52 RAVELING L DEPRESSION L 232.00 SqFt 45 57 WEATHERING L 201.00 SqFt

Netw	ork: EYW				Name:	KEY WEST INTE	RNATIONAL AIF	RPORT	
Bran	th: TW A11	_	Na	nme: TAXI	WAY A11	Use:	TAXIWAY	Area:	4,158 SqFt
Section	on: 172	of 2	2	From:	-		То: -		Last Const.: 10/1/2018
Surfa	ce: PCC Fam	ily: C	9N59	P-PR-AP-AC	Zone:		Category:		Rank: P
Area	1,525 SqF	t	L	ength:	30 Ft	Width:	50 Ft		
Slabs	s 49 Slal	b Length	1:	15 Ft	Sl	ab Width:	15 Ft	Joint Length:	120 Ft
Shoul	der: Str	eet Type	:		Gi	rade: 0		Lanes: 0	
Section	on Comments:								
	Date: 1/1/2003	Work	Tvn	e: New Construction	on - Initial	Coo	de: NU-IN	Is Major I	M&R: True
	Date: 10/1/2018			e: Complete Reco			de: CR-PC		M&R: True
Last 1	nsp. Date: 3/23/2015			TotalSamples:		Surveyed		•	
	itions: PCI: 38			=		re-Construction PCI ***			
	ction Comments:			110	JIL. I	re-construction i ci			
Samp	le Number: 300	Type:		R	Area:	2518.00 SqFt	PCI: 8		
Samp	le Comments:								
41	ALLIGATOR CRACKING	t	M	98.00	SqFt				
50	PATCHING		Н		SqFt				
45	DEPRESSION		L	121.00	-				
41	ALLIGATOR CRACKING	ł	L		SqFt				
52	RAVELING		M	32.00					
52	RAVELING		L	1878.00	-				
45	DEPRESSION		L		SqFt				
45 52	DEPRESSION		L		SqFt SaFt				
53	RUTTING		L	66.00	•				
41	ALLIGATOR CRACKING	Г	L	35.00	•				
45 45	DEPRESSION DEPRESSION		L L	33.00	•				
45 50	PATCHING		L H		SqFt SqFt				
41	ALLIGATOR CRACKING	ł	ь Г	18.00	-				
52	RAVELING	•	M	469.00	-				
41	ALLIGATOR CRACKING	ł	L	33.00	•				
48	LONGITUDINAL/TRANS CRACKING			10.00	-				
41 48	ALLIGATOR CRACKING LONGITUDINAL/TRANS		L M	40.00 92.00	SqFt Ft				
41	CRACKING	ı		40.65	G 75:				
41	ALLIGATOR CRACKING ALLIGATOR CRACKING		L L		SqFt SqFt				
_	le Number: 901	Type:		R	Area:	3800.00 SqFt	PCI: 4	6	
_	le Comments:								
48	LONGITUDINAL/TRANS CRACKING	VERSE	L	320.00					
45	DEPRESSION		L		SqFt				
52	RAVELING		L	3420.00					
43	BLOCK CRACKING		L	800.00	-				
52	RAVELING		M	380.00	-				
42 Same	BLEEDING	T	N		SqFt	2694 00 G-E4	DCI. 4	0	
_	le Number: 912 le Comments:	Type:		R	Area:	3684.00 SqFt	PCI: 49	7	
Samp			т	2217.00	C _a E ₄				
50	RAVELING		L	3316.00	-				
52			т	2/04/00	C-E				
52 43 52	BLOCK CRACKING RAVELING		L M	3684.00 368.00	-				

EYW KEY WEST INTERNATIONAL AIRPORT Network: Name: **Branch:** TW A7 TAXIWAY A7 Use: TAXIWAY 1,991 SqFt Name: Area: 150 of 1 Last Const.: 1/1/2014 Section: From: To: Surface: PCC Family: C9N59-PR-RW-TW-PCC Zone: Category: Rank: P Area: 1,991 SqFt Length: 120 Ft Width: 36 Ft Slabs: Slab Length: 18 Ft Slab Width: 18 Ft Joint Length: 324 Ft 6 Shoulder: **Street Type:** Grade: Lanes: **Section Comments:** Work Date: 1/1/2003 Work Type: New Construction - AC Code: NC-AC Is Major M&R: True Work Date: 1/1/2014 Work Type: Complete Reconstruction - PCC Code: CR-PC Is Major M&R: True **Last Insp. Date:** 7/29/2019 TotalSamples: 1 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** R **PCI:** 88 Sample Number: 101 Type: Area: 6.00 Slabs **Sample Comments:**

65

JT SEAL DMG

Н

6.00 Slabs

EYW KEY WEST INTERNATIONAL AIRPORT Network: Name: 1,992 SqFt **Branch:** TW A8 TAXIWAY A8 Use: TAXIWAY Name: Area: 155 of 1 Last Const.: 1/1/2014 Section: From: To: Surface: PCC Family: C9N59-PR-RW-TW-PCC Zone: Category: Rank: P Area: 1,992 SqFt Length: 120 Ft Width: 36 Ft Slabs: Slab Length: 18 Ft Slab Width: 18 Ft Joint Length: 324 Ft 6 Shoulder: **Street Type:** Grade: Lanes: **Section Comments:** Work Date: 1/1/2003 Work Type: New Construction - AC Code: NC-AC Is Major M&R: True Work Date: 1/1/2014 Work Type: Complete Reconstruction - PCC Code: CR-PC Is Major M&R: True **Last Insp. Date:** 7/29/2019 TotalSamples: 1 Surveyed: 1 **Conditions:** PCI: **Inspection Comments:** R **PCI:** 88 Sample Number: 201 Type: Area: 6.00 Slabs **Sample Comments:**

65

JT SEAL DMG

Н

6.00 Slabs

	ork: EYW				Name:	KEY	WEST INT	ERNA	ATIONAL AIR	PORT			
Bran	ch: TW B		Name:	TAXIV	WAY B		Use:	TA	XIWAY	Area:	39,91	7 SqFt	
Secti	on: 205	of	2	From:	-				То: -		La	st Const.:	4/1/2018
Surf	ace: AAC		C9N59-PR- APC	TW-AAC-	Zone:				Category:		Ra	nk: P	
Area	:	19,096 SqFt	Lengt	h:	113 Ft		Width:		150 Ft				
Slab	s:	Slab Lengt	th:	Ft	S	lab Width:			Ft	Join	nt Length:	F	-
Shou	lder:	Street Typ	e:		G	Grade: 0				Lan	es: 0		
Secti	on Comments:												
Wor	k Date: 1/1/1957	Wor	k Type: B	UILT			C	ode:	IMPORTED		Is Major M&R	: True	
Wor	k Date: 1/1/1979	Wor	k Type: O	VERLAY			C	ode:	IMPORTED		Is Major M&R	: True	
Wor	k Date: 1/1/2003	Wor	k Type: O	verlay - AC St	ructural		C	ode:	OL-AS		Is Major M&R	: True	
Wor	k Date: 4/1/2018	Wor	k Type: M	IILL and OVE	RLAY		C	ode:	ML-OV		Is Major M&R	: True	
		10015											
Last	Insp. Date: 3/23	3/2015	Tota	alSamples:	10		Surveye	ed: 2					
	Insp. Date: 3/23 litions: PCI:		Tota	•		<mark>Pre-Constru</mark>	•						
Conc	_	63	Tota	•		Pre-Constru	•						
Conc Insp	litions: PCI:	63		NO			•		PCI: 68				
Cond Inspe Sam	litions: PCI:	63		NO	TE: <mark>***</mark>]		ction PCI **						
Cond Inspo Sam Sam	litions: PCI: ection Comments: ple Number: 300 ple Comments:	63		NO	TE: <mark>***]</mark> Area:		ction PCI **						
Cond Inspense Samp Samp	litions: PCI: ection Comments: ple Number: 300	63 : 0 Type	: R	NO	TE: ***] Area: SqFt		ction PCI **						
Cond Inspe Samp Samp 52	litions: PCI: ection Comments: ple Number: 300 ple Comments: RAVELING	63 : 0 Type	: R	750.00	TE: *** l Area: SqFt SqFt		ction PCI **						
Cond Inspe Samp Samp 52 57 56	litions: PCI: ection Comments: ple Number: 300 ple Comments: RAVELING WEATHERING	63 : 0 Type	: R	750.00 3000.00 12.00	TE: *** l Area: SqFt SqFt		ction PCI **						
Cond Inspe Sam	litions: PCI: ection Comments: ple Number: 300 ple Comments: RAVELING WEATHERING SWELLING RUTTING	63 : 0 Type	: R L L L L	750.00 3000.00 12.00	TE: *** Area: SqFt SqFt SqFt SqFt SqFt		ction PCI **						
Sam Sam 52 57 56 53 48	litions: PCI: ection Comments: ple Number: 300 ple Comments: RAVELING WEATHERING SWELLING RUTTING LONGITUDIN.	63 : 0 Type G AL/TRANSVERSE	R L L L L L L L L L L L L L L L L L L L	750.00 3000.00 12.00 6.00 197.00	TE: *** Area: SqFt SqFt SqFt SqFt SqFt	3750	ction PCI **						
Sample Sa	litions: PCI: ection Comments ple Number: 300 ple Comments: RAVELING WEATHERING SWELLING RUTTING LONGITUDIN, CRACKING	63 : 0 Type G AL/TRANSVERSE	R L L L L L L L L L L L L L L L L L L L	750.00 3000.00 12.00 6.00 197.00	TE: *** SqFt SqFt SqFt SqFt SqFt Ft	3750	ction PCI **		PCI: 68				
Samp Samp Samp Samp Samp Samp	litions: PCI: ection Comments: ple Number: 300 ple Comments: RAVELING WEATHERING SWELLING RUTTING LONGITUDIN, CRACKING ple Number: 40	63 : 0 Type G AL/TRANSVERSE	R L L L L L L L L L L L L L L L L L L L	750.00 3000.00 12.00 6.00 197.00	TE: *** Area: SqFt SqFt SqFt SqFt SqFt Ft	3750	ction PCI **		PCI: 68				
Sample Sa	litions: PCI: ection Comments ple Number: 300 ple Comments: RAVELING WEATHERING SWELLING RUTTING LONGITUDIN CRACKING ple Number: 40 ple Comments:	63 : 0 Type G AL/TRANSVERSE	: R L L L L L : R	750.00 3000.00 12.00 6.00 197.00	SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqFt	3750	ction PCI **		PCI: 68				
Cond Inspense Samp 52 57 56 53 48 Samp Samp Samp 56	litions: PCI: ection Comments: ple Number: 300 ple Comments: RAVELING WEATHERING SWELLING RUTTING LONGITUDIN, CRACKING ple Number: 40 ple Comments: SWELLING RAVELING	63 : 0 Type G AL/TRANSVERSE	: R L L L L L S L L L L L L L L L L L L L	750.00 3000.00 12.00 6.00 197.00	SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqFt	3750	ction PCI **		PCI: 68				

Network:	EYW				Nam	e: KI	EY WEST IN	ITERN.	ATIONAL AIR	PORT				
Branch:	TW B		Name:	TAXIV	VAY B		Use	: TA	XIWAY	Area:		39,917	SqFt	
Section: 2	210	of 2		From: -	,				То: -			Last	t Const.:	1/1/2003
Surface: 1	AAC	Family: C9	N59-PR-T PC	W-AAC-	Zone	:			Category:			Ran	k: P	
Area:	20,82	21 SqFt	Length:	:	127 Ft		Width:		150 Ft					
Slabs:		Slab Length:		Ft		Slab Width	:		Ft	Join	t Length	:	F	⁷ t
Shoulder:		Street Type:				Grade: ()			Lan	es: 0			
Section Con	mments:													
Work Date:	: 1/1/1957	Work	Type: BU	ILT				Code:	IMPORTED		Is Major	M&R:	True	
Work Date:	: 1/1/1979	Work	Type: OV	ERLAY				Code:	IMPORTED		Is Major	M&R:	True	
Work Date:	: 1/1/2003	Work	Type: Ove	erlay - AC Str	uctural			Code:	OL-AS		Is Major	M&R:	True	
-	Date: 7/29/201 : PCI: 46	9	Total	Samples: 5	,		Surve	yed: 2	2					
Conditions:	: PCI: 46 Comments:							yed: 2						
Conditions: Inspection (Sample Nur	: PCI: 46 Comments: mber: 300	Туре:	Total		rea:	27'	Surve	yed: 2	PCI: 63	3				
Conditions:	: PCI: 46 Comments: mber: 300					27′		yed: 2		3				
Conditions: Inspection Consample Nur Sample Constant RUT	: PCI: 46 Comments: mber: 300 mments:		R L	A 22.00	rea: SqFt	27'		yed: 2		3				
Conditions: Inspection (Sample Nur Sample Cor S3 RUT S6 SWE	: PCI: 46 Comments: mber: 300 mments: FTING ELLING		R L L	22.00 21.00	rea: SqFt SqFt	27'		yed: 2		3				
Conditions: Inspection (Sample Nur Sample Cor 53 RUT 56 SWE 48 L&	: PCI: 46 Comments: mber: 300 mments: TTING ELLING T CR		R L L L	22.00 21.00 211.00	rea: SqFt SqFt Ft	27'		yed: 2		3				
Conditions: Inspection (Comple Nur Comple Cor Comple Comple Comple Comple Cor Comple Com	: PCI: 46 Comments: mber: 300 mments: TTING ELLING T CR ATHERING		R L L L L L	22.00 21.00 211.00 2081.00	rea: SqFt SqFt Ft SqFt	27'		yed: 2		3				
Conditions: Inspection (Sample Nur Sample Cor SSAMPLE SAMPLE SAM	: PCI: 46 Comments: mber: 300 mments: TTING ELLING T CR		R L L L	22.00 21.00 211.00 2081.00 694.00	rea: SqFt SqFt Ft SqFt			yed: 2						
Conditions: Inspection (Sample Nur Sample Cor 53 RUT 56 SWE 48 L & 57 WE 52 RAV Sample Nur	: PCI: 46 Comments: mber: 300 mments: TTING ELLING T CR ATHERING VELING mber: 401	Туре:	R L L L L L	22.00 21.00 211.00 2081.00 694.00	sqFt SqFt Ft SqFt SqFt SqFt		75.00 SqFt	yed: 2	PCI: 63					
Conditions: Inspection (Sample Nur Sample Cor S3 RUT S6 SWE 48 L & 57 WE 52 RAV Sample Nur Sample Cor	: PCI: 46 Comments: mber: 300 mments: FTING ELLING T CR ATHERING VELING mber: 401 mments:	Туре:	R L L L L R	22.00 21.00 211.00 2081.00 694.00	rea: SqFt SqFt Ft SqFt SqFt SqFt		75.00 SqFt	yed: 2	PCI: 63					
Conditions: Inspection (Sample Nur Sample Cor 53 RUT 56 SWE 48 L & 57 WE 52 RAV Sample Nur Sample Cor 41 ALL	: PCI: 46 Comments: mber: 300 mments: TTING ELLING T CR ATHERING VELING mber: 401	Туре:	R L L L L L	22.00 21.00 211.00 2081.00 694.00 A	rea: SqFt SqFt Ft SqFt SqFt rea:		75.00 SqFt	yed: 2	PCI: 63					
Conditions: Inspection (Sample Nur Sample Cor S3 RUT S6 SWE 48 L & 57 WE 52 RAV Sample Nur Sample Cor 41 ALL 45 DEP	: PCI: 46 Comments: mber: 300 mments: FTING ELLING T CR ATHERING VELING mber: 401 mments: LIGATOR CR PRESSION	Туре:	R L L L L L L L	22.00 21.00 211.00 2081.00 694.00 A 289.00 39.00	rea: SqFt SqFt Ft SqFt SqFt rea: SqFt		75.00 SqFt	yed: 2	PCI: 63					
Conditions: Inspection (Sample Nur Sample Cor S3 RUT S6 SWE 48 L & 57 WE 52 RAV Sample Nur Sample Cor 41 ALL 45 DEP 53 RUT	: PCI: 46 Comments: mber: 300 mments: FTING ELLING T CR ATHERING VELING mber: 401 mments: LIGATOR CR	Туре:	R L L L L L L L L	22.00 21.00 211.00 2081.00 694.00 A 289.00 39.00 96.00	rea: SqFt SqFt Ft SqFt SqFt SqFt SqFt SqFt S		75.00 SqFt	yed: 2	PCI: 63					
Conditions: Inspection (Sample Nur Sample Cor 53 RUT 56 SWE 48 L & 57 WE 52 RAV Sample Nur Sample Cor 41 ALL 45 DEP 53 RUT 52 RAV	: PCI: 46 Comments: mber: 300 mments: TTING ELLING T CR ATHERING VELING mber: 401 mments: LIGATOR CR PRESSION TTING	Туре:	R L L L L L L L L L L L L L L L L L L L	22.00 21.00 211.00 2081.00 694.00 A 289.00 39.00 96.00 812.00	rea: SqFt SqFt Ft SqFt SqFt SqFt SqFt SqFt S		75.00 SqFt	yed: 2	PCI: 63					
Conditions: Inspection (Sample Nur Sample Cor 53 RUT 56 SWE 48 L & 57 WE 52 RAV Sample Nur Sample Cor 41 ALL 45 DEP 53 RUT 52 RAV 56 SWE	: PCI: 46 Comments: mber: 300 mments: TTING ELLING T CR ATHERING VELING mber: 401 mments: LIGATOR CR PRESSION TTING VELING	Туре:	R L L L L L L L L L L L L L L L L L L L	22.00 21.00 211.00 2081.00 694.00 A 289.00 39.00 96.00	rea: SqFt SqFt Ft SqFt SqFt SqFt SqFt SqFt S		75.00 SqFt	yed: 2	PCI: 63					

Network:	EYW				Name:	KEY V	WEST INT	ERNATIONAL AI	RPORT		
Branch:	TW C		Name:	TAXIV	/AY C		Use:	TAXIWAY	Area:	20,166 SqF	
Section:	305	0:	f 2	From: -				То: -		Last Cor	nst.: 4/1/2018
Surface:	AAC	Family:	C9N59-PR- APC	TW-AAC-	Zone:			Category:		Rank:	P
Area:	9	,642 SqFt	Lengt	h:	107 Ft	V	Vidth:	50 Ft			
Slabs:		Slab Len	igth:	Ft	Slal	b Width:		Ft	Joint Len	ngth:	Ft
Shoulder:		Street Ty	ype:		Gra	nde: 0			Lanes:	0	
Section Co	omments:										
Work Dat	te: 1/1/1957	W	ork Type: Bl	UILT			Co	ode: IMPORTED	Is Ma	ajor M&R: Tru	e
Work Dat	te: 1/1/1979	W	ork Type: O	VERLAY			Co	ode: IMPORTED	Is Ma	ajor M&R: Tru	e
Work Dat	te: 1/1/2003	W	ork Type: O	verlay - AC Str	uctural		Co	ode: OL-AS	Is Ma	ajor M&R: Tru	e
Work Dat	te: 4/1/2018	W	ork Type: M	ILL and OVER	LAY		Co	ode: ML-OV	Is Ma	ajor M&R: Tru	e
Last Insp.	Date: 3/23/20	015	Tota	alSamples: 4			Surveye	d: 1			
Condition	s: PCI: 6	8		NO'	ΓΕ: <mark>*** Pr</mark>	e-Construct	ion PCI **	*			
Inspection	Comments:										
Sample N	umber: 301	Тур	oe: R	A	rea:	5617.0	0 SqFt	PCI:	68		
Sample Co	omments:										
52 RA	VELING		L	1123.00	SqFt						
56 SW	VELLING		L	21.00	•						
	NGITUDINAL RACKING	/TRANSVER	SE L	671.00	Ft						

Network:	EYW				Name:	KEY	WEST INT	ERNATI	ONAL AIR	RPORT		
Branch:	TW C		Name:	TAXIW	AY C		Use:	TAXIV	WAY	Area:	20,166	SqFt
Section:	310	0	f 2	From: -				To:	; -		Last	Const.: 1/1/20
Surface:	AAC	Family:	C9N59-PR-TV APC	W-AAC-	Zone:			Car	tegory:		Ran	k: P
Area:		10,524 SqFt	Length:		133 Ft		Width:		50 Ft			
Slabs:		Slab Ler	ngth:	Ft	Slab	Width:		Ft		Joint Len	gth:	Ft
Shoulder:		Street T	ype:		Gra	de: 0				Lanes:	0	
Section Co	omments:											
Work Date	e: 1/1/1957	W	ork Type: BUI	LT			C	ode: IM	MPORTED 1	Is Ma	njor M&R:	True
Work Date	e: 1/1/1979	W	ork Type: OVI	ERLAY			C	ode: IM	1PORTED	Is Ma	njor M&R:	True
Work Dat	e: 1/1/2003	W	ork Type: Ove	rlay - AC Stru	ctural		C	ode: O	L-AS	Is Ma	njor M&R:	True
Last Insp.	Date: 7/2	9/2019	Totals	Samples: 2			Surveye	ed: 1				
Condition	s: PCI:	51										
Inspection	Comments	s:										
Sample Nu	ımber: 30)1 Ty ₁	pe: R	Arc	ea:	5267	7.00 SqFt		PCI: 51	1		
Sample Co	omments:											
57 WE	EATHERING	G	L	2415.00 S	aFt							
57 WE	EATHERING	G	M	1010.00 S								
50 PA	TCHING		L	558.00 S	qFt							
52 RA	VELING		L	1284.00 S	qFt							
48 L &	t T CR		L	812.00 F	t							

Netwo	ork: EYW					Nam	e: KEY	WEST IN	TERNA	ATIONAL AI	RPORT			
Branc	eh: TW D		N	Name:	TAXI	WAY D		Use:	TAX	XIWAY	Area	ı:	25,621 SqFt	
ectio	on: 505	of	2]	From:	-			7	Го: -			Last Cons	t.: 4/1/2018
Surfa	ce: AAC		C9N5 APC	59-PR-TV	W-AAC-	Zone	e:		(Category:			Rank: P	
rea:	9,32	24 SqFt		Length:		109 F	t	Width:		50 Ft				
Slabs	:	Slab Leng	th:		Ft		Slab Width:		I	Ft		Joint Length:		Ft
Shoul	der:	Street Typ	e:				Grade: 0					Lanes: 0		
Sectio	on Comments:													
Vork	Date: 1/1/1957	Wor	rk Ty	pe: BUI	LT			(Code:	IMPORTED		Is Major	M&R: True	
Vork	Date: 1/1/1979	Wor	k Ty	pe: OVE	ERLAY			(Code:	IMPORTED		Is Major	M&R: True	
Vork	Date: 1/1/2003	Wor	k Ty	pe: Ove	rlay - AC St	ructural		(Code:	OL-AS		Is Major	M&R: True	
Vork	Date: 4/1/2018	Wor	k Ty	pe: MIL	L and OVE	RLAY		(Code:	ML-OV		Is Major	M&R: True	
Last 1	nsp. Date: 3/23/201:	5		TotalS	Samples:			Survey						
Cond	itions: PCI: 56				NO)TE: <mark>**</mark>	* Pre-Constru	ction PCI *	***					
nspe	ction Comments:													
Samp	le Number: 101	Туре	:	R	I	Area:	3665	5.00 SqFt		PCI: 5	58			
Samp	le Comments:													
15	DEPRESSION		L		14.00	SqFt								
8	LONGITUDINAL/T CRACKING	RANSVERSE			357.00	-								
2	RAVELING		L		733.00									
6 7	SWELLING		L			SqFt								
3	WEATHERING RUTTING		L L		2932.00 12.00	_								
amp	le Number: 103	Туре	:	R	I	Area:	3625	5.00 SqFt		PCI: 7	71			
amp	le Comments:													
52	RAVELING		L		363.00	SqFt								
18	L & T CR		L		171.00									
57 15	WEATHERING DEPRESSION		L L		3263.00 10.00									
15	DEPRESSION		L		18.00									
amp	le Number: 202	Туре	:	R		Area:	5537	7.00 SqFt		PCI: 5	50			
amp	le Comments:													
-8	L & T CR		L		115.00	Ft								
2	BLEEDING		N			SqFt								
18	L & T CR		L		77.00	Ft								
2	RAVELING		L		4706.00									
52	RAVELING		M		831.00									
55 13	SLIPPAGE CR BLOCK CR		N L		16.00 994.00	-								
	le Number: 300	Туре		R		Area:	3160	0.00 SqFt		PCI: 4	18			
_	le Comments:	туре	•	K	I	ıı va.	3100	vo bqrt		101.				
52	RAVELING		L		45.00	SaFt								
13	BLOCK CR		L		2713.00									
45	DEPRESSION		L			SqFt								
	DEPRESSION		L		14.00									
45	RAVELING		L		2713.00									
	KAVELING													
45 52 48	L & T CR		L		138.00	Ft								

Network:	EYW				Nam	ie: KE	Y WEST IN	TERN	ATIONAL AIR	PORT			
Branch:	TW D		Name:	TAXIV	WAY D		Use:	TA	XIWAY	Area:	25,621	SqFt	
Section:	510	0	of 2	From:	-				То: -		Last	Const.:	1/1/2003
Surface:	AAC	Family:	C9N59-PR-TV APC	V-AAC-	Zone	e:			Category:		Ran	k: P	
Area:		16,297 SqFt	Length:		243 F	t	Width:		50 Ft				
Slabs:		Slab Lei	ıgth:	Ft		Slab Width:			Ft	Joint L	ength:	Ft	
Shoulder:		Street T	ype:			Grade: 0				Lanes:	0		
Section Co	mments:												
Work Date	e: 1/1/1957	W	ork Type: BUI	LT			ı	Code:	IMPORTED	Is N	Iajor M&R:	True	
Work Date	e: 1/1/1979	W	ork Type: OVI	ERLAY				Code:	IMPORTED	Is N	Iajor M&R:	True	
Work Date	e: 1/1/2003	W	ork Type: Over	rlay - AC St	ructural		ı	Code:	OL-AS	Is N	Iajor M&R:	True	
Last Insp.	Date: 7/29	9/2019	Totals	Samples:	4		Surve	yed:	[
Conditions	s: PCI:	43											
Inspection	Comments	:											
Sample Nu	imber: 10	2 Ty J	pe: R	A	Area:	450	0.00 SqFt		PCI: 43				
Sample Co	omments:												
43 BL0	OCK CR		L	184.00	SaFt								
	TTING		L	185.00	-								
57 WE	ATHERING	j.	M	4050.00	-								
48 L &	T CR		L	468.00	Ft								
41 ALI	LIGATOR (CR	L	50.00	SqFt								

	vork: EYW				Nar	ne: KEY	Y WEST INTI	ERNATIO	ONAL AIRP	ORT			
Brar	nch: TW E		Name:	TAXI	WAY E	<u> </u>	Use:	TAXIV	VAY	Area:	54	4,287 SqF	<u> </u>
Secti	on: 605	of 2		From:	-			To:	-			Last Con	st.: 4/1/2018
Surf	ace: AAC Family	7: C9 AF		TW-AAC-	Zon	ie:		Cat	egory:			Rank: F	
Area	: 16,396 SqFt		Lengtl	h:	95 I	Ft	Width:		150 Ft				
Slab	s: Slab l	Length:		Ft		Slab Width:		Ft		Jo	int Length:		Ft
Shou	ılder: Street	t Type:				Grade: 0				La	nnes: 0		
Secti	on Comments:												
Wor	k Date: 1/1/1957	Work '	Type: BU	JILT			Co	ode: IM	PORTED		Is Major M	&R: True	;
Wor	k Date: 1/1/1979	Work '	Type: O	VERLAY			Co	ode: IM	PORTED		Is Major M	&R: True	;
Wor	k Date: 1/1/2003	Work '	Type: Ov	verlay - AC St	ructura	1	Co	ode: OL	-AS		Is Major M	&R: True	;
Wor	k Date: 4/1/2018	Work '	Туре: М	ILL and OVE	RLAY		Co	ode: MI	L-OV		Is Major M	&R: True	;
Last	Insp. Date: 3/23/2015		Tota	lSamples:	12		Surveyed	d: 3					
Con	ditions: PCI: 64			NC	TE: **	** Pre-Constru	ction PCI **	*					
nsn	ection Comments:												
1150													
	ple Number: 100	Гуре:	R		\rea:	3750	0.00 SaFt		PCI: 61				
Sam	ple Number: 100	Гуре:	R	A	Area:	3750	0.00 SqFt		PCI: 61				
Sam Sam	ple Comments:					3750	0.00 SqFt		PCI: 61				
Sam Sam 52			R M L	188.00 3000.00	SqFt SqFt	3750	0.00 SqFt		PCI: 61				
Sam Sam 52	ple Comments: RAVELING RAVELING LONGITUDINAL/TRANSVI		M L	188.00	SqFt SqFt	3750	0.00 SqFt		PCI: 61				
Sam Sam 52 52 48	ple Comments: RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING	ERSE	M L L	188.00 3000.00 263.00	SqFt SqFt Ft	3750	0.00 SqFt		PCI: 61				
Sam 52 52 48	ple Comments: RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING	ERSE	M L L	188.00 3000.00 263.00 12.00	SqFt SqFt Ft SqFt								
Sam 52 52 48 55	RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING ple Number: 301	ERSE	M L L	188.00 3000.00 263.00 12.00	SqFt SqFt Ft		0.00 SqFt		PCI: 61				
Sam Sam 52 52 48 55 Sam	PILE Comments: RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING PILE Number: 301 PILE Comments:	ERSE Type:	M L L N	188.00 3000.00 263.00 12.00	SqFt SqFt Ft SqFt								
52 52 53 55 55 56 56 53	PILE Comments: RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING PILE Number: 301 PILE Comments: RUTTING	ERSE Type:	M L L N R	188.00 3000.00 263.00 12.00	SqFt SqFt Ft SqFt Area:								
52 52 48 55 56 58 53 53	PILE Comments: RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING PILE Number: 301 PILE Comments: RUTTING RAVELING	ERSE Type:	M L L N R	188.00 3000.00 263.00 12.00 4 9.00 750.00	SqFt SqFt Ft SqFt Area: SqFt SqFt								
Sam 52 52 48 55 Sam 53 52 41	RAVELING RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING ple Number: 301 ple Comments: RUTTING RAVELING ALLIGATOR CRACKING LONGITUDINAL/TRANSVI	ERSE Type:	M L L N R	188.00 3000.00 263.00 12.00 4 9.00 750.00	SqFt SqFt Ft SqFt Area: SqFt SqFt SqFt								
Sam, 552, 552, 448, 555, Sam, 53, 552, 441, 448, 555, 552, 552, 553, 552, 553, 552, 553, 552, 553, 552, 553, 552, 553, 552, 554, 554, 554, 555, 554, 554, 554	RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING Ple Number: 301 Ple Comments: RUTTING RAVELING ALLIGATOR CRACKING	ERSE Type:	M L L N R	188.00 3000.00 263.00 12.00 4 9.00 750.00 8.00	SqFt SqFt Ft SqFt Area: SqFt SqFt SqFt Ft								
Sam 552 552 18 555 Sam 53 52 11 18	RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING Ple Number: 301 Ple Comments: RUTTING RAVELING ALLIGATOR CRACKING LONGITUDINAL/TRANSVI CRACKING WEATHERING	ERSE Type:	M L L N R	188.00 3000.00 263.00 12.00 9.00 750.00 8.00 376.00 3000.00	SqFt SqFt Ft SqFt Area: SqFt SqFt SqFt Ft	3750							
Sam 52 52 48 55 Sam 53 52 41 48 57	RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING Ple Number: 301 Ple Comments: RUTTING RAVELING ALLIGATOR CRACKING LONGITUDINAL/TRANSVI CRACKING WEATHERING	ERSE Type: ERSE	M L L N R	188.00 3000.00 263.00 12.00 9.00 750.00 8.00 376.00 3000.00	SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqFt	3750	0.00 SqFt		PCI: 57				
Sam 52 52 48 55 Sam 53 52 41 48 57 Sam	RAVELING RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING Ple Number: 301 Ple Comments: RUTTING RAVELING ALLIGATOR CRACKING LONGITUDINAL/TRANSVI CRACKING WEATHERING Ple Number: 600	ERSE Fype: Type:	M L L N R L L L L L	188.00 3000.00 263.00 12.00 9.00 750.00 8.00 376.00 3000.00	SqFt SqFt SqFt Area: SqFt SqFt SqFt SqFt SqFt Area:	3750	0.00 SqFt		PCI: 57				
Sam, 52 52 448 555 Sam, 53 552 441 448 Sam, Sam, Sam, Sam, Sam, Sam, Sam, Sam,	RAVELING RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING Ple Number: 301 Ple Comments: RUTTING RAVELING ALLIGATOR CRACKING LONGITUDINAL/TRANSVI CRACKING WEATHERING Ple Number: 600 Ple Comments: LONGITUDINAL/TRANSVI LONGITUDINAL/TRANSVI Ple Comments:	ERSE Fype: ERSE ERSE	M L L R R L L L L L L L L L L L L L L L	188.00 3000.00 263.00 12.00 9.00 750.00 8.00 376.00	SqFt SqFt SqFt Area: SqFt SqFt SqFt SqFt SqFt Ft SqFt	3750	0.00 SqFt		PCI: 57				
Sam, 52 52 448 555 Sam, 53 552 441 448 Sam, 448	RAVELING RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING Ple Number: 301 Ple Comments: RUTTING RAVELING ALLIGATOR CRACKING LONGITUDINAL/TRANSVI CRACKING WEATHERING Ple Number: 600 Ple Comments: LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI	ERSE Type: ERSE ERSE ERSE	M L L R R L L L L L L L L L L L L L L L	188.00 3000.00 263.00 12.00 9.00 750.00 8.00 376.00	SqFt SqFt SqFt Area: SqFt SqFt SqFt SqFt SqFt Ft SqFt Ft Ft Ft	3750	0.00 SqFt		PCI: 57				
Sam Sam 52 52 48 55 Sam 53 52 41 48 57 Sam	RAVELING RAVELING LONGITUDINAL/TRANSVI CRACKING SLIPPAGE CRACKING Ple Number: 301 Ple Comments: RUTTING RAVELING ALLIGATOR CRACKING LONGITUDINAL/TRANSVI CRACKING WEATHERING Ple Number: 600 Ple Comments: LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING LONGITUDINAL/TRANSVI CRACKING	ERSE Type: ERSE ERSE ERSE	M L L R R L L L L L L L L L L L L L L L	188.00 3000.00 263.00 12.00 9.00 750.00 8.00 376.00 3000.00	SqFt SqFt SqFt Area: SqFt SqFt SqFt SqFt Ft SqFt Ft SqFt Area:	3750	0.00 SqFt		PCI: 57				

Netwo	ork: EYW				Name	: KEY	WEST INT	ΓERNA	TIONAL AIR	PORT				
Brand	ch: TW E		Name:	TAXIW	VAY E		Use:	TAX	KIWAY	Area:		54,287	SqFt	
Sectio	on: 610	of	2	From: -				Т	To: -			Last	Const.:	1/1/2003
Surfa	ce: AAC	•	C9N59-PR-T APC	ΓW-AAC-	Zone	:		C	Category:			Rank	: P	
Area:	3′	7,891 SqFt	Length	:	187 Ft		Width:		150 Ft					
Slabs	:	Slab Leng	th:	Ft	\$	Slab Width:		F	`t	Join	t Length:		Ft	-
Shoul	lder:	Street Typ	e:		(Grade: 0				Lan	es: 0			
Sectio	on Comments:													
Work	Date: 1/1/1957	Woi	k Type: BU	ULT			C	Code:	IMPORTED		Is Major I	M&R:	True	
Work	Date: 1/1/1979	Woi	k Type: OV	/ERLAY			C	Code:	IMPORTED		Is Major I	M&R:	True	
Work	Date: 1/1/2003	Woi	k Type: Ov	erlay - AC Str	uctural		C	ode:	OL-AS		Is Major I	M&R:	True	
Last 1	Insp. Date: 7/29/2	2019	Total	Samples: 9)		Surveyo	ed: 2						
	P													
Cond	itions: PCI:	50		-			·							
		50		•										
Inspe	ction Comments:					4124			DCI 41					
Inspe Samp	ction Comments: de Number: 301	Туре			rea:	4125	5.00 SqFt		PCI: 41					
Inspe Samp	ction Comments:					4125			PCI: 41					
Inspe Samp	ction Comments: de Number: 301				rea:	4125			PCI: 41					
Samp Samp Samp 42 52	ction Comments: lle Number: 301 lle Comments: BLEEDING RAVELING		; R	8.00 825.00	rea: SqFt SqFt	4125			PCI: 41					
Samp Samp Samp 42	ction Comments: lle Number: 301 lle Comments: BLEEDING		: R	8.00 825.00 237.00	rea: SqFt SqFt SqFt	4125			PCI: 41					
Samp Samp 42 52	ction Comments: lle Number: 301 lle Comments: BLEEDING RAVELING		R N L	8.00 825.00 237.00 660.00	rea: SqFt SqFt SqFt SqFt	4125			PCI: 41					
Samp Samp 42 52 53 43	ction Comments: lle Number: 301 lle Comments: BLEEDING RAVELING RUTTING		R N L L	8.00 825.00 237.00	rea: SqFt SqFt SqFt SqFt	4125			PCI: 41					
Samp Samp 42 52 53 43	ction Comments: le Number: 301 le Comments: BLEEDING RAVELING RUTTING BLOCK CR		R N L L L	8.00 825.00 237.00 660.00	rea: SqFt SqFt SqFt SqFt Ft	4125			PCI: 41					
Samp Samp 42 52 53 43 48 57	ction Comments: le Number: 301 le Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR	Туре	R N L L L L	8.00 825.00 237.00 660.00 574.00	rea: SqFt SqFt SqFt SqFt Ft SqFt	4125			PCI: 41					
Samp Samp 42 52 53 43 48 57 41	ction Comments: ole Number: 301 ole Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR WEATHERING	Туре	R N L L L L M	8.00 825.00 237.00 660.00 574.00 2062.00	rea: SqFt SqFt SqFt SqFt Ft SqFt SqFt	4125			PCI: 41					
Samp 42 52 53 43 48 57 41	ction Comments: ole Number: 301 ole Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR WEATHERING ALLIGATOR CR	Туре	R N L L L L L L L L L L L L L L L L L L	8.00 825.00 237.00 660.00 574.00 2062.00 10.00 1238.00	rea: SqFt SqFt SqFt SqFt Ft SqFt SqFt				PCI: 41					
Samp 42 52 53 43 48 57 41 57	ction Comments: ole Number: 301 ole Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR WEATHERING ALLIGATOR CR WEATHERING	Туре	R N L L L L L L L L L	8.00 825.00 237.00 660.00 574.00 2062.00 10.00 1238.00	rea: SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqFt		5.00 SqFt							
Samp 42 52 53 43 44 8 57 41 57 Samp	ction Comments: ole Number: 301 ole Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR WEATHERING ALLIGATOR CR WEATHERING ole Number: 600	Туре	R N L L L L L L L L L	8.00 825.00 237.00 660.00 574.00 2062.00 10.00 1238.00	rea: SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqFt		5.00 SqFt							
Samp 42 52 53 43 44 8 57 Samp Samp	ction Comments: le Number: 301 le Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR WEATHERING ALLIGATOR CR WEATHERING ALLIGATOR CR WEATHERING le Number: 600 le Comments:	Туре	: R N L L L L L L R R : R	8.00 825.00 237.00 660.00 574.00 2062.00 10.00 1238.00	rea: SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqFt		5.00 SqFt							
Samp Samp 42 52 53 43 448 57 41 57 Samp	ction Comments: le Number: 301 le Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR WEATHERING ALLIGATOR CR WEATHERING ALLIGATOR CR WEATHERING le Number: 600 le Comments: RAVELING	Туре	: R N L L L L L R R L L L	8.00 825.00 237.00 660.00 574.00 2062.00 10.00 1238.00 A	rea: SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqFt		5.00 SqFt							
Samp Samp 42 52 53 43 48 57 41 57 Samp Samp	ction Comments: ole Number: 301 ole Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR WEATHERING ALLIGATOR CR WEATHERING Ole Number: 600 ole Comments: RAVELING DEPRESSION BLEEDING	Туре	: R N L L L L M L L R	8.00 825.00 237.00 660.00 574.00 2062.00 10.00 1238.00 A 975.00 105.00 73.00	rea: SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqF		5.00 SqFt							
Samp 42 52 53 43 48 57 41 57 Samp	ction Comments: ole Number: 301 ole Comments: BLEEDING RAVELING RUTTING BLOCK CR L & T CR WEATHERING ALLIGATOR CR WEATHERING Ole Number: 600 ole Comments: RAVELING DEPRESSION	Туре	: R N L L L L L R R L L L L L L L L L L	8.00 825.00 237.00 660.00 574.00 2062.00 10.00 1238.00 A	rea: SqFt SqFt SqFt SqFt SqFt SqFt SqFt SqF		5.00 SqFt							