# FLORIDA DEPARTMENT OF TRANSPORTATION AVIATION AND SPACEPORTS OFFICE

# **Statewide Airfield Pavement Management Program**



# **Airport Pavement Evaluation Report** November 2019



**Tampa Executive Airport (VDF) Reliever Airport District 7** 









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Florida Department of Transportation

# Statewide Airfield Pavement Management Program

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OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS



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# **Executive Summary**

# FDOT

# **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<sup>™</sup> 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
VDF	RUNWAY 18-36	RUNWAY	6105	243,145	68	Fair
VDF	RUNWAY 5-23	RUNWAY	6205	500,000	68	Fair
VDF	TAXIWAY A	TAXIWAY	105	114,664	63	Fair
VDF	TAXIWAY A	TAXIWAY	120	2,772	69	Fair
VDF	TAXIWAY A	TAXIWAY	140	3,862	65	Fair
VDF	TAXIWAY A	TAXIWAY	160	3,861	60	Fair
VDF	TAXIWAY A	TAXIWAY	180	4,111	70	Fair
VDF	TAXIWAY B	TAXIWAY	210	15,268	21	Serious
VDF	TAXIWAY B	TAXIWAY	250	7,286	28	Very Poor
VDF	TAXIWAY C	TAXIWAY	405	21,767	70	Fair
VDF	TAXIWAY D	TAXIWAY	170	5,063	61	Fair
VDF	TAXIWAY D	TAXIWAY	305	24,475	68	Fair
VDF	TAXIWAY D	TAXIWAY	310	6,936	81	Satisfactory
VDF	TAXIWAY E	TAXIWAY	505	145,723	72	Satisfactory
VDF	TAXIWAY E-1	TAXIWAY	510	9,543	74	Satisfactory
VDF	TAXIWAY E-2	TAXIWAY	515	9,511	70	Fair
VDF	TAXIWAY E-3	TAXIWAY	520	9,876	71	Satisfactory
VDF	TAXIWAY E-4	TAXIWAY	525	8,961	72	Satisfactory
VDF	TAXIWAY F	TAXIWAY	605	98,237	73	Satisfactory
VDF	TAXIWAY F	TAXIWAY	610	4,871	70	Fair
VDF	TAXIWAY F	TAXIWAY	615	4,552	67	Fair
VDF	TAXIWAY J	TAXIWAY	705	61,282	65	Fair
VDF	TAXIWAY J	TAXIWAY	710	31,786	64	Fair
VDF	TAXIWAY J	TAXIWAY	715	12,020	64	Fair
VDF	TAXILANE J	TAXILANE	4505	28,314	59	Fair
VDF	SOUTH APRON "A"	APRON	4105	77,746	64	Fair
VDF	SOUTH APRON "A"	APRON	4110	115,269	70	Fair
VDF	SOUTH APRON "A"	APRON	4115	4,786	74	Satisfactory
VDF	NORTH APRON "B"	APRON	4205	131,692	71	Satisfactory
VDF	NORTH APRON "B"	APRON	4210	100,788	65	Fair
VDF	NORTH APRON "B"	APRON	4215	5,688	66	Fair
VDF	T-HANGARS APRON	APRON	4310	147,914	73	Satisfactory
VDF	T-HANGARS APRON	APRON	4315	12,031	69	Fair
VDF	MAIN APRON	APRON	4410	424,105	68	Fair

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Network ID	Branch Name	Branch Name Branch Use ID		Area (SF)	PCI	Condition Rating
VDF	EAST APRON	APRON	4510	37,084	69	Fair
VDF	RUN-UP APRON 23	APRON	5105	24,994	71	Satisfactory
VDF	RUN-UP APRON 05	APRON	5205	71,353	71	Satisfactory
VDF	RUN-UP APRON 18	APRON	5305	3,338	58	Fair

# Forecasted Pavement Condition Index 2020-2029

### Table E-2 Pavement Condition Index Forecast 2020-2029

Network		Section	Last					Forecas	sted PCI				
ID	Branch ID	ID	PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
VDF	AP E	4510	69	67	66	64	63	62	61	60	59	58	58
VDF	AP MAIN	4410	68	66	65	64	63	61	60	60	59	58	57
VDF	AP N	4205	71	69	67	66	65	64	62	61	60	60	59
VDF	AP N	4210	65	63	62	61	60	59	58	58	57	56	55
VDF	AP N	4215	66	64	63	62	61	60	59	58	57	57	56
VDF	AP RU 18	5305	58	57	56	55	55	54	53	52	52	51	50
VDF	AP RU 23	5105	71	69	67	66	65	64	62	61	60	60	59
VDF	AP RU 5	5205	71	69	67	66	65	64	62	61	60	60	59
VDF	AP S	4105	64	62	61	60	59	59	58	57	56	56	55
VDF	AP S	4110	70	68	67	65	64	63	62	61	60	59	58
VDF	AP S	4115	74	72	70	69	67	66	65	63	62	61	60
VDF	AP T-HANG	4310	73	71	69	68	66	65	64	63	62	61	60
VDF	AP T-HANG	4315	69	66	64	62	60	58	56	53	51	49	47
VDF	RW 18-36	6105	68	67	66	65	64	63	63	62	61	61	60
VDF	RW 5-23	6205	68	67	66	66	66	65	64	64	63	62	62
VDF	TL J	4505	59	57	56	55	54	53	52	52	51	50	49
VDF	TW A	105	63	61	60	59	58	57	56	55	54	53	52
VDF	TW A	120	69	67	66	65	64	62	61	60	59	58	57
VDF	TW A	140	65	64	63	62	61	60	59	59	58	57	56
VDF	TW A	160	60	59	58	57	56	55	55	54	53	52	51
VDF	TW A	180	70	68	67	66	65	65	64	63	62	61	60
VDF	TW B	210	21	20	20	20	20	20	20	20	20	20	20
VDF	TW B	250	28	27	27	27	27	27	27	27	27	27	27
VDF	TW C	405	70	68	67	66	65	63	62	61	60	59	58
VDF	TW D	170	61	59	58	57	56	55	54	53	52	51	50
VDF	TW D	305	68	66	65	64	63	62	60	59	58	57	56
VDF	TW D	310	81	79	78	76	75	73	72	71	69	68	67
VDF	TW E	505	72	70	69	68	66	65	64	63	62	61	59

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Network	Branch ID	Section	Last	Forecasted PCI									
ID	Branchib	ID	PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
VDF	TW E1	510	74	72	71	70	68	67	66	65	63	62	61
VDF	TW E2	515	70	68	67	66	65	63	62	61	60	59	58
VDF	TW E3	520	71	69	68	67	65	64	63	62	61	60	59
VDF	TW E4	525	72	70	69	68	66	65	64	63	62	61	59
VDF	TW F	605	73	71	70	69	67	66	65	64	63	61	60
VDF	TW F	610	70	68	67	66	65	63	62	61	60	59	58
VDF	TW F	615	67	65	64	63	62	61	60	58	57	56	55
VDF	TW J	705	65	63	62	61	60	59	58	57	56	55	54
VDF	TW J	710	64	62	61	60	59	58	57	56	55	54	53
VDF	TW J	715	64	62	61	60	59	58	57	56	55	54	53

# 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	VDF	AP N	4210	AC	100,788	63	AC Restoration	\$ 958,000.00
2020	VDF	AP N	4215	AC	5,688	64	AC Restoration	\$ 55,000.00
2020	VDF	AP RU 18	5305	AC	3,338	57	AC Restoration	\$ 32,000.00
2020	VDF	AP S	4105	AC	77,746	62	AC Restoration	\$ 739,000.00
2020	VDF	TL J	4505	AC	28,314	57	AC Restoration	\$ 269,000.00
2020	VDF	TW A	105	AC	114,664	61	AC Restoration	\$ 1,090,000.00
2020	VDF	TW A	140	AAC	3,862	64	AC Restoration	\$ 37,000.00
2020	VDF	TW A	160	AAC	3,861	59	AC Restoration	\$ 37,000.00
2020	VDF	TW B	210	AC	15,268	20	AC Reconstruction	\$ 191,000.00
2020	VDF	TW B	250	AC	7,286	27	AC Reconstruction	\$ 92,000.00
2020	VDF	TW D	170	AC	5,063	59	AC Restoration	\$ 49,000.00
2020	VDF	TW J	705	AC	61,282	63	AC Restoration	\$ 583,000.00
2020	VDF	TW J	710	AC	31,786	62	AC Restoration	\$ 302,000.00
2020	VDF	TW J	715	AC	12,020	62	AC Restoration	\$ 115,000.00
2021	VDF	AP T-HANG	4315	AAC	12,031	64	AC Restoration	\$ 115,000.00
2021	VDF	TW F	615	AC	4,552	64	AC Restoration	\$ 44,000.00
2022	VDF	AP E	4510	AC	37,084	64	AC Restoration	\$ 353,000.00
2022	VDF	AP MAIN	4410	AC	424,105	64	AC Restoration	\$ 4,030,000.00
2022	VDF	TW D	305	AC	24,475	64	AC Restoration	\$ 233,000.00
2023	VDF	AP S	4110	AC	115,269	64	AC Restoration	\$ 1,096,000.00
2023	VDF	RW 18-36	6105	AAC	243,145	64	AC Restoration	\$ 2,310,000.00
2023	VDF	TW A	120	AC	2,772	64	AC Restoration	\$ 27,000.00

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Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2024	VDF	AP N	4205	AC	131,692	64	AC Restoration	\$ 1,252,000.00
2024	VDF	AP RU 23	5105	AC	24,994	64	AC Restoration	\$ 238,000.00
2024	VDF	AP RU 5	5205	AC	71,353	64	AC Restoration	\$ 678,000.00
2024	VDF	TW C	405	AC	21,767	63	AC Restoration	\$ 207,000.00
2024	VDF	TW E2	515	AC	9,511	63	AC Restoration	\$ 91,000.00
2024	VDF	TW E3	520	AC	9,876	64	AC Restoration	\$ 94,000.00
2024	VDF	TW F	610	AC	4,871	63	AC Restoration	\$ 47,000.00
2025	VDF	AP T-HANG	4310	AC	147,914	64	AC Restoration	\$ 1,406,000.00
2025	VDF	RW 5-23	6205	AC	500,000	64	AC Restoration	\$ 4,751,000.00
2025	VDF	TW A	180	AAC	4,111	64	AC Restoration	\$ 40,000.00
2025	VDF	TW E	505	AC	145,723	64	AC Restoration	\$ 1,385,000.00
2025	VDF	TW E4	525	AC	8,961	64	AC Restoration	\$ 86,000.00
2026	VDF	AP S	4115	AC	4,786	63	AC Restoration	\$ 46,000.00
2026	VDF	TW F	605	AC	98,237	64	AC Restoration	\$ 934,000.00
2027	VDF	TW E1	510	AC	9,543	63	AC Restoration	\$ 91,000.00

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





# Summary of Tampa Executive Airport

Tampa Executive Airport was inspected in January of 2019 – the overall weighted PCI value was 68, a condition rating of Fair. The results of the maintenance, repair, and major rehabilitation analysis identified \$1,374,220 in localized M&R needs based on current conditions and a 10-Year major rehabilitation need of \$24,103,000 based on forecasted conditions. The current major rehabilitation needs based on the latest inspection consist of \$4,549,000 for pavements below critical condition.

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



# **Chapter 1**

# **Chapter 1 – Introduction**

# 1.1 Background

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

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

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

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

# 1.2 Statewide Airfield Pavement Management Program (SAPMP) Update 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.



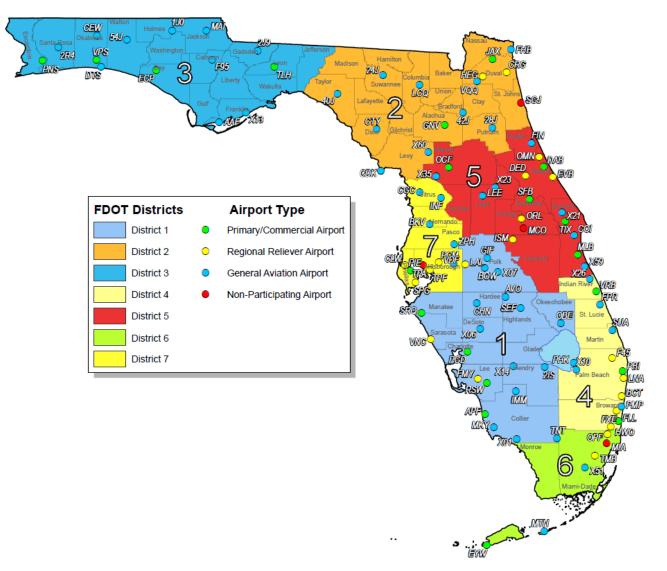


Figure 1.2 Florida Aviation System (Facilities with Pavement) and FDOT Districts

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." Planning-level unit costs were developed based on representative construction bid tabulations provided by participating airports. The bid tabulations consisted of limited airfield pavement construction projects that took place between 2009 and 2015 at participating airports.



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.

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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<sup>™</sup> (currently known as PAVER<sup>™</sup>) was selected for implementation of the system update. MicroPAVER<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> and FieldInspector<sup>™</sup> with the use of GPS and GIS capable field tablets. Furthermore, the update included continued adherence to the ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys." The ASTM update consisted of refinement of distress definition types and deduction values for select asphalt concrete and Portland Cement Concrete distresses.



# 1.6 Federal Aviation Administration (FAA)

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

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

# 1.7 FDOT SAPMP Objectives and Components

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

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

# 1.7.1 Program Objectives

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

The objectives are accomplished by the following components:

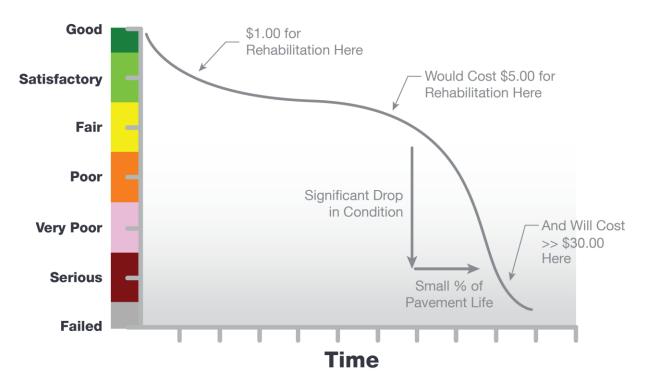
# 1.7.2 Program Components

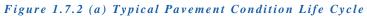
- A. Database
- B. Pavement Inventory
- C. Pavement Structure
- D. Pavement Work History
- E. Pavement Condition Data



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

A well-maintained network-level pavement management program may provide airport staff a better understanding of the airfield pavement performance for developing and planning for specific maintenance, repair, and major rehabilitation projects. The understanding of specific distress types and severities will assist the airport in addressing pavement maintenance and repair with the appropriate treatments as defined by the FAA Advisory Circular 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements." The development of projects with an understanding of system inventory, deterioration details, and pavement condition forecasts may assist airport staff in developing practical rehabilitation actions and budgets. Furthermore, the understanding of pavements' past performance and forecasted condition may assist airport staff in addressing pavement rehabilitation in a timely and costeffective manner. Figure 1.7.2 (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.



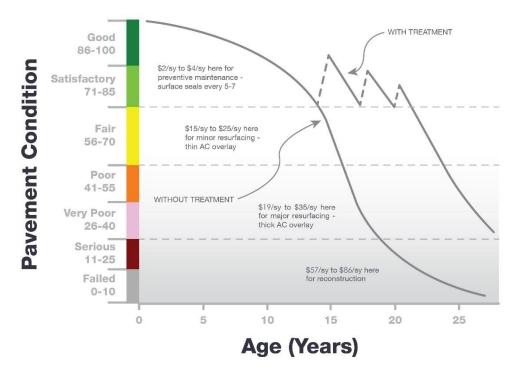


\*Figure is for conceptual purposes only – unit costs are not specific to airfield pavements (AC vs PCC).

**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.





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.

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	PCI Range	Representative PCI	Representative Pavement Surface	Rehabilitation Activities
Routine Maintenance	86-100	90		Pavements with PCI values above 85, or 'Good', may require periodic joint/crack sealing and local patching.
Pavement Preservation	65-85	70		Pavements with PCI conditions ranging from 'Fair' to 'Satisfactory' may require surface treatments (seal coat), thin overlays, and/or joint/crack sealing.
Major Rehabiliation	40-64	50		Pavements that have deteriorated below a PCI 65 (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 (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 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 2<sup>nd</sup> Edition, M.Y. Shahin.



# **Chapter 2**



# Chapter 2 – Methodology

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

# 2.1 Airfield Pavement Database

The SAPMP program has historically utilized PAVER<sup>™</sup> (formerly MicroPAVER<sup>™</sup>); the current update has maintained the use of the PAVER<sup>™</sup> 7.0 version of the software. The PAVER<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> inventory management is based on a tiered organizational structure that consists of networks, branches, and sections, with the section being the smallest unit of management. Critical elements of an effective pavement management program are maintained within the network-level PAVER<sup>™</sup> database. These elements typically consist of pavement inventory characteristics, pavement structure, work history, historic condition records, and analytical customization.

The SAPMP System Update consisted of the conversion of the previous database from a PAVER<sup>™</sup> 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

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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 ( $\pm 8$  slabs) for Portland Cement Concrete (PCC) pavement and 5,000 contiguous square feet ( $\pm 2,000$  ft<sup>2</sup>) for flexible asphalt concrete (AC) or porous friction course pavements.

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

#### Table 2.2.1 Airfield Pavement Database Network Definition Terminology



# 2.3 Airfield Pavement Structure

# 2.3.1 Pavement Structure Types

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

### Flexible Asphalt Concrete Surface

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

### Asphalt Concrete (AC)

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

#### Asphalt Concrete Overlaid on Asphalt Concrete (AAC)

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

### Asphalt Concrete Overlaid on Portland Cement Concrete (APC)

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



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:

- Location and Limits of Work.
- 2. Types and Severity of Distresses Repaired.
- 3. Type of Work.
- 4. Cost of Work.
- 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 Poss	ible Causes	
Load	Climate / Durability	Moisture / Drainage	Others
<ul> <li>Alligator Cracking</li> <li>Corrugation</li> <li>Depression</li> <li>Patching of Load-based distress</li> <li>Polished Aggregate</li> <li>Rutting</li> <li>Slippage Cracking</li> </ul>	<ul> <li>Bleeding</li> <li>Block Cracking</li> <li>Joint Reflection Cracking</li> <li>L/T Cracking</li> <li>Patching of climate / durability-caused distresses</li> <li>Shoving from PCC</li> <li>Raveling</li> <li>Weathering</li> <li>Swelling</li> </ul>	<ul> <li>Alligator Cracking</li> <li>Depression</li> <li>Patching of moisture / drainage caused distress</li> <li>Swelling</li> <li>Raveling</li> <li>Weathering</li> </ul>	<ul> <li>Oil Spillage</li> <li>Jet Blast Erosion</li> <li>Polished Aggregate</li> </ul>

### Table 2.6.2 (c) Pavement Distresses Possible Effects – Flexible Asphalt Concrete-Surfaced Airfields

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



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### 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				



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#### 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					
<ul> <li>Corner Break</li> <li>Shattered Slab</li> <li>L/T/D Cracking</li> <li>Pumping</li> <li>Patching of Load- associated distress</li> <li>Spalling</li> </ul>	<ul> <li>Blowup</li> <li>"D" Cracking</li> <li>Joint Seal Damage</li> <li>Popouts</li> <li>Scaling</li> <li>Patch of Climate/Durability- associated distress</li> <li>Shrinkage Cracking</li> <li>Spalling</li> <li>L/T/D Cracking</li> </ul>	<ul> <li>Corner Break</li> <li>Shattered Slab</li> <li>Pumping</li> <li>Patching of Moisture/Drainage- associated distress</li> </ul>	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							
<ul> <li>Blowup</li> <li>Corner Break</li> <li>L/T/D Cracking</li> <li>Shattered Slab</li> <li>Settlement / Faulting</li> <li>Spalling</li> </ul>	<ul> <li>Settlement / Faulting</li> <li>Spalling</li> </ul>	<ul> <li>Corner Break</li> <li>L/T/D Cracking</li> <li>"D" Cracking</li> <li>Joint Seal Damage</li> <li>Shattered Slab</li> <li>Popouts</li> <li>Scaling</li> </ul>	All distresses							



### 2.6.3 PCI Survey Inspection Procedures

### Inspection Sampling Rate

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

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

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

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

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



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.



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### Table 2.6.4 Summary of Updates to ASTM D5340-12

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

### Statewide Airfield Pavement Management Program



# **Chapter 3**

### FDOT

### 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**.

Year	General Work Description
2021	RW 5-23 - Pavement Rehabilitation

 Table 3.1.1 Previous and/or Anticipated Airfield Pavement Construction

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.

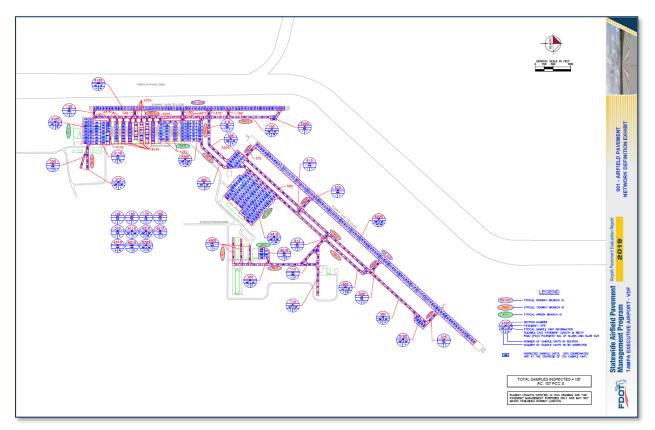


Figure 3.1.1 (a) 2019 Airfield Pavement Network Definition Exhibit

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.

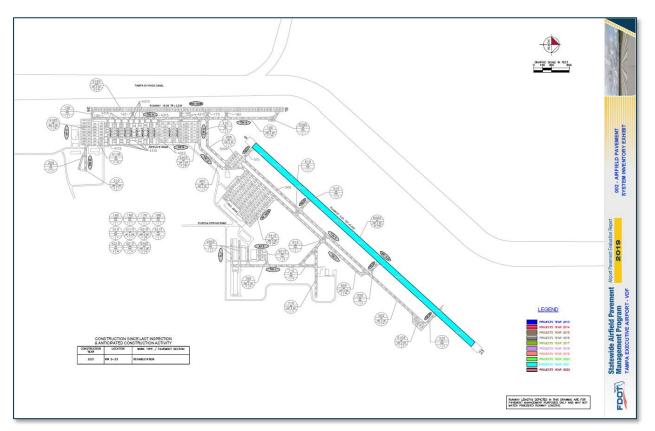


Figure 3.1.1 (b) 2019 Airfield Pavement System Inventory Exhibit

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.



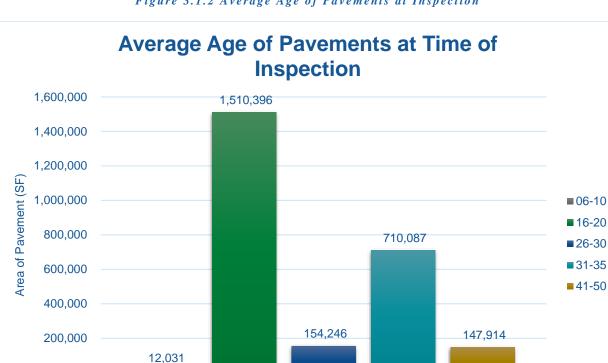


Figure 3.1.2 Average Age of Pavements at Inspection

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.

Age Band (Years)

Statewide Airfield Pavement<br/>Management ProgramAirport Pavement<br/>Evaluation Report2019



### 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.

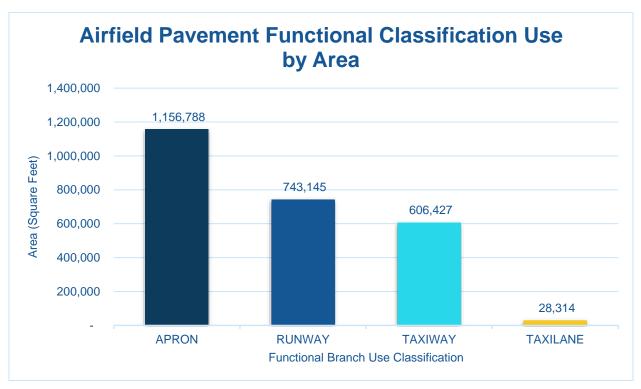


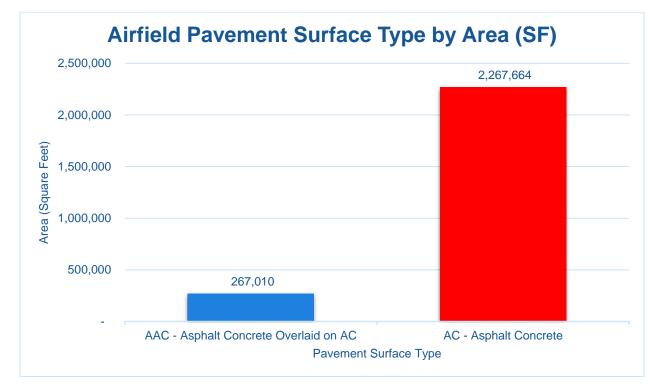
Figure 3.1.3 Airfield Pavement Functional Classification Use by Area



### 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).

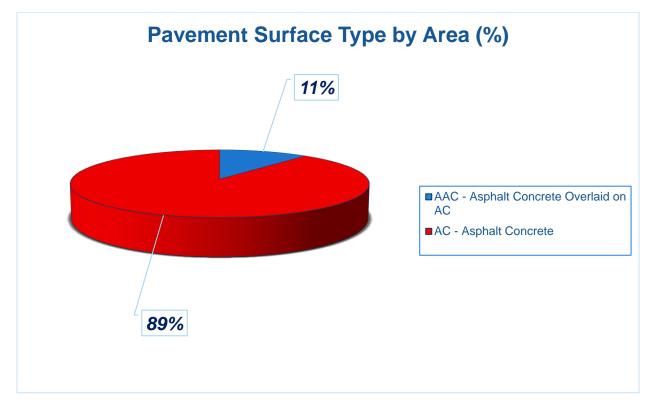
Based on the record documentation incorporated within the SAPMP database throughout the years, the pavement surface types have been assigned to the various pavement sections in accordance to its work history composition. The following **Figures 3.1.4 (a) and (b)** summarize the applicable pavement types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



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







### 3.1.5 Pavement System Inventory Details

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

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

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### 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
VDF	EAST APRON	AP E	APRON	4510	190	190	37,084	AC	1/1/1999
VDF	MAIN APRON	AP MAIN	APRON	4410	688	545	424,105	AC	1/1/1999
VDF	NORTH APRON "B"	AP N	APRON	4205	373	350	131,692	AC	1/1/1991
VDF	NORTH APRON "B"	AP N	APRON	4210	350	275	100,788	AC	1/1/1986
VDF	NORTH APRON "B"	AP N	APRON	4215	100	55	5,688	AC	1/1/1986
VDF	RUN-UP APRON 18	AP RU 18	APRON	5305	100	30	3,338	AC	1/1/1986
VDF	RUN-UP APRON 23	AP RU 23	APRON	5105	225	100	24,994	AC	1/1/1986
VDF	RUN-UP APRON 05	AP RU 5	APRON	5205	300	200	71,353	AC	1/1/1999
VDF	SOUTH APRON "A"	AP S	APRON	4105	445	175	77,746	AC	1/1/1986
VDF	SOUTH APRON "A"	AP S	APRON	4110	300	400	115,269	AC	1/1/1986
VDF	SOUTH APRON "A"	AP S	APRON	4115	192	25	4,786	AC	1/1/1986
VDF	T-HANGARS APRON	AP T-HANG	APRON	4310	368	415	147,914	AC	1/1/1974
VDF	T-HANGARS APRON	AP T-HANG	APRON	4315	300	40	12,031	AAC	12/26/2009
VDF	RUNWAY 18-36	RW 18-36	RUNWAY	6105	3,259	75	243,145	AAC	1/2/1986
VDF	RUNWAY 5-23	RW 5-23	RUNWAY	6205	5,000	100	500,000	AC	1/1/1999
VDF	TAXILANE J	TL J	TAXILANE	4505	1,164	22	28,314	AC	1/1/1999
VDF	ΤΑΧΙΨΑΥ Α	TW A	TAXIWAY	105	3,200	35	114,664	AC	1/1/1986
VDF	TAXIWAY A	TW A	TAXIWAY	120	75	30	2,772	AC	1/1/1986
VDF	ΤΑΧΙΨΑΥ Α	TW A	TAXIWAY	140	100	35	3,862	AAC	1/2/1986
VDF	TAXIWAY A	TW A	TAXIWAY	160	100	35	3,861	AAC	1/2/1986
VDF	TAXIWAY A	TW A	TAXIWAY	180	100	35	4,111	AAC	1/2/1986
VDF	TAXIWAY B	TW B	TAXIWAY	210	430	35	15,268	AC	1/1/1989
VDF	TAXIWAY B	TW B	TAXIWAY	250	330	40	7,286	AC	1/1/1989
VDF	TAXIWAY C	TW C	TAXIWAY	405	600	35	21,767	AC	1/1/2001
VDF	TAXIWAY D	TW D	TAXIWAY	170	100	35	5,063	AC	1/1/1986

Statewide Air Management	field Pavement Airport Pave Program Evaluation F			Tampa Executive Airport (VDF)					FDO
Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
VDF	TAXIWAY D	TW D	TAXIWAY	305	700	35	24,475	AC	1/1/2001
VDF	TAXIWAY D	TW D	TAXIWAY	310	200	35	6,936	AC	1/1/2001
VDF	TAXIWAY E	TW E	TAXIWAY	505	4,156	35	145,723	AC	1/1/1999
VDF	TAXIWAY E-1	TW E1	TAXIWAY	510	233	35	9,543	AC	1/1/1999
VDF	TAXIWAY E-2	TW E2	TAXIWAY	515	233	35	9,511	AC	1/1/1999
VDF	TAXIWAY E-3	TW E3	TAXIWAY	520	233	35	9,876	AC	1/1/1999
VDF	TAXIWAY E-4	TW E4	TAXIWAY	525	233	35	8,961	AC	1/1/1999
VDF	TAXIWAY F	TW F	TAXIWAY	605	2,645	35	98,237	AC	1/1/1999
VDF	TAXIWAY F	TW F	TAXIWAY	610	70	50	4,871	AC	1/1/1999
VDF	TAXIWAY F	TW F	TAXIWAY	615	100	40	4,552	AC	1/1/1999
VDF	TAXIWAY J	TW J	TAXIWAY	705	1,700	35	61,282	AC	1/1/1999
VDF	TAXIWAY J	TW J	TAXIWAY	710	830	35	31,786	AC	1/1/1999
VDF	TAXIWAY J	TW J	TAXIWAY	715	232	35	12,020	AC	1/1/1999



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### Statewide Airfield Pavement Management Program



# **Chapter 4**

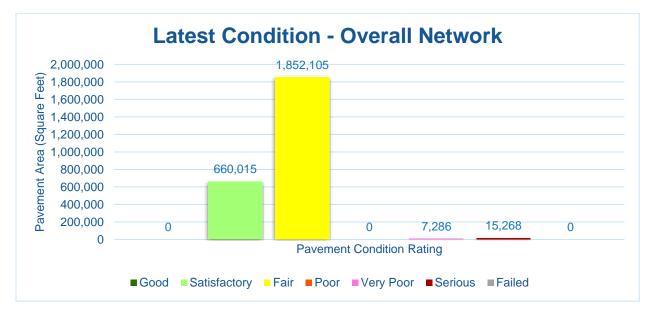
### Chapter 4 – Airfield Pavement Condition

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 rehabilitation.

### 4.1 Airfield Pavement Condition Index (Latest Inspection)

### 4.1.1 Network-Level Analysis

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



#### Figure 4.1.1 Latest Condition – Overall Network

### 4.1.2 Branch-Level Analysis

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





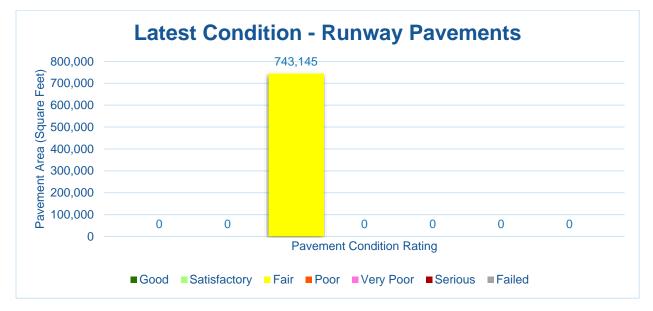
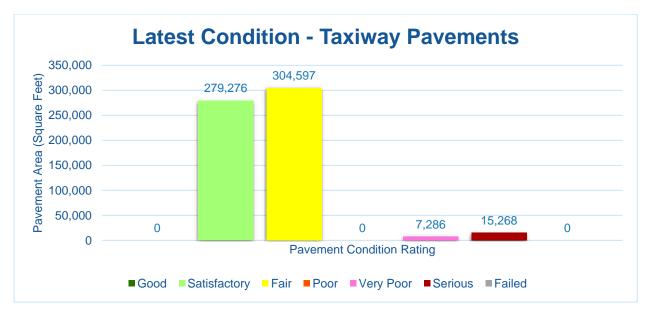


Figure 4.1.2 (b) Latest Condition – Taxiway Pavements







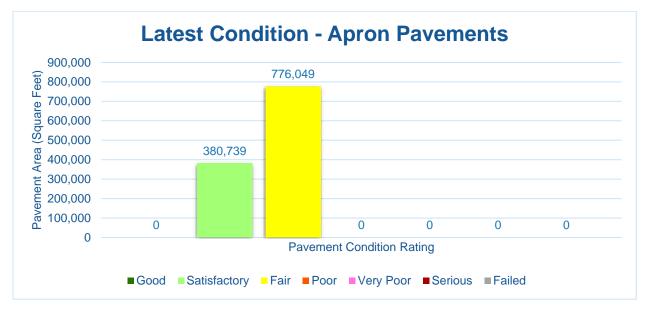
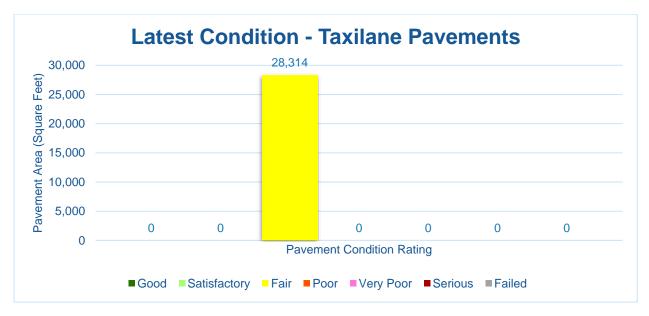


Figure 4.1.2 (d) Latest Condition – Taxilane Pavements



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### 4.1.3 Section-Level Analysis

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

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

Network ID	Branch ID	Branch Name	Branch Use	Section ID	Area (SF)	Surface	PCI	PCI Rating	PCI % Climate	PCI % Load	PCI % Other	Sample Units Inspected	Total Sample Units in Section
VDF	AP E	EAST APRON	APRON	4510	37,084	AC	69	Fair	100%	0%	0%	1	8
VDF	AP MAIN	MAIN APRON	APRON	4410	424,105	AC	68	Fair	93%	0%	7%	9	82
VDF	AP N	NORTH APRON "B"	APRON	4205	131,692	AC	71	Satisfactory	95%	0%	5%	3	28
VDF	AP N	NORTH APRON "B"	APRON	4210	100,788	AC	65	Fair	99%	0%	1%	3	22
VDF	AP N	NORTH APRON "B"	APRON	4215	5,688	AC	66	Fair	100%	0%	0%	1	3
VDF	AP RU 18	RUN-UP APRON 18	APRON	5305	3,338	AC	58	Fair	100%	0%	0%	1	1
VDF	AP RU 23	RUN-UP APRON 23	APRON	5105	24,994	AC	71	Satisfactory	100%	0%	0%	1	5
VDF	AP RU 5	RUN-UP APRON 05	APRON	5205	71,353	AC	71	Satisfactory	100%	0%	0%	3	15
VDF	AP S	SOUTH APRON "A"	APRON	4105	77,746	AC	64	Fair	85%	0%	15%	3	18
VDF	AP S	SOUTH APRON "A"	APRON	4110	115,269	AC	70	Fair	70%	0%	30%	3	22
VDF	AP S	SOUTH APRON "A"	APRON	4115	4,786	AC	74	Satisfactory	100%	0%	0%	1	1
VDF	AP T-HANG	T-HANGARS APRON	APRON	4310	147,914	AC	73	Satisfactory	68%	19%	13%	5	39
VDF	AP T-HANG	T-HANGARS APRON	APRON	4315	12,031	AAC	69	Fair	100%	0%	0%	1	8
VDF	RW 18-36	RUNWAY 18-36	RUNWAY	6105	243,145	AAC	68	Fair	100%	0%	0%	13	65
VDF	RW 5-23	RUNWAY 5-23	RUNWAY	6205	500,000	AC	68	Fair	100%	0%	0%	20	100
VDF	TL J	TAXILANE J	TAXILANE	4505	28,314	AC	59	Fair	100%	0%	0%	1	6
VDF	TW A	TAXIWAY A	TAXIWAY	105	114,664	AC	63	Fair	99%	0%	1%	7	32
VDF	TW A	TAXIWAY A	TAXIWAY	120	2,772	AC	69	Fair	100%	0%	0%	1	1
VDF	TW A	TAXIWAY A	TAXIWAY	140	3,862	AAC	65	Fair	100%	0%	0%	1	1
VDF	TW A	TAXIWAY A	TAXIWAY	160	3,861	AAC	60	Fair	100%	0%	0%	1	1
VDF	TW A	TAXIWAY A	TAXIWAY	180	4,111	AAC	70	Fair	100%	0%	0%	1	1
VDF	TW B	TAXIWAY B	TAXIWAY	210	15,268	AC	21	Serious	69%	20%	11%	2	4
VDF	TW B	TAXIWAY B	TAXIWAY	250	7,286	AC	28	Very Poor	92%	0%	8%	1	2
VDF	TW C	TAXIWAY C	TAXIWAY	405	21,767	AC	70	Fair	100%	0%	0%	1	6
VDF	TW D	TAXIWAY D	TAXIWAY	170	5,063	AC	61	Fair	100%	0%	0%	1	1
VDF	TW D	TAXIWAY D	TAXIWAY	305	24,475	AC	68	Fair	100%	0%	0%	1	6
VDF	TW D	TAXIWAY D	TAXIWAY	310	6,936	AC	81	Satisfactory	100%	0%	0%	1	2
VDF	TW E	TAXIWAY E	TAXIWAY	505	145,723	AC	72	Satisfactory	100%	0%	0%	5	41
VDF	TW E1	TAXIWAY E-1	TAXIWAY	510	9,543	AC	74	Satisfactory	100%	0%	0%	1	2
VDF	TW E2	TAXIWAY E-2	TAXIWAY	515	9,511	AC	70	Fair	99%	0%	1%	1	2
VDF	TW E3	TAXIWAY E-3	TAXIWAY	520	9,876	AC	71	Satisfactory	100%	0%	0%	1	2
VDF	TW E4	TAXIWAY E-4	TAXIWAY	525	8,961	AC	72	Satisfactory	100%	0%	0%	1	2
VDF	TW F	TAXIWAY F	TAXIWAY	605	98,237	AC	73	Satisfactory	100%	0%	0%	4	28
VDF	TW F	TAXIWAY F	TAXIWAY	610	4,871	AC	70	Fair	100%	0%	0%	1	1
VDF	TW F	TAXIWAY F	TAXIWAY	615	4,552	AC	67	Fair	100%	0%	0%	1	1
VDF	TW J	TAXIWAY J	TAXIWAY	705	61,282	AC	65	Fair	98%	0%	2%	3	17
VDF	TW J	TAXIWAY J	TAXIWAY	710	31,786	AC	64	Fair	100%	0%	0%	1	9
VDF	TW J	TAXIWAY J	TAXIWAY	715	12,020	AC	64	Fair	100%	0%	0%	1	3

### Table 4.1.3 Latest Pavement Condition Index Summary



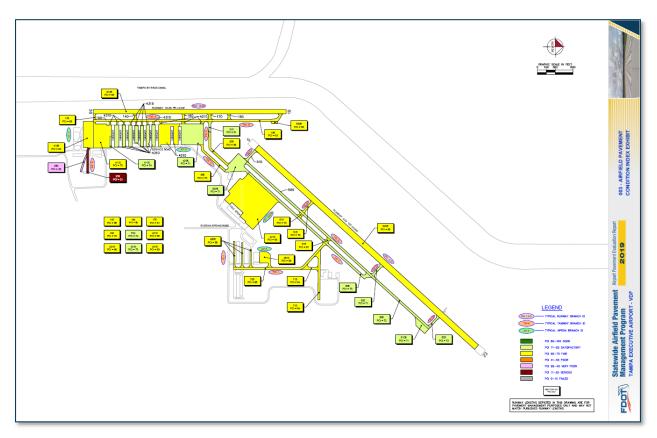
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**Figure 4.1.3** is an inset view of the 2019 Airfield Pavement Condition Index Exhibit that visually represents the results of the latest PCI Survey inspection. A large format exhibit is located in **Appendix C Technical Exhibits.** 







### 4.2 Summary of Pavement Condition Evaluation Results

### 4.2.1 Network-Level Observations

The field PCI Survey performed at Tampa Executive Airport (VDF) was completed in January of 2019. The resulting overall area-weighted average PCI value was 68 representing a condition rating of Fair. Tampa Executive Airport is serviced by two runways; Runway 5-23 is 100-ft wide and 5,000-ft long, Runway 18-36 is 75-ft wide and 3,219-ft long.

Based on the FAA 5010 Report as of 09/12/2019 the Airport has reported 94,590 operations for 12 months ending 12/13/2017.

### 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 sample-level may be referenced for all pavements assessed as part of this System Update. The branch-level observations discussed are limited to select branches based on use and condition.

### Runway 5-23

Runway 5-23 consists of 1 section constructed of AC. The last construction year for Runway 5-23 was 1999. The area-weighted average PCI for Runway 5-23 is 68 representing a Fair condition rating. The pavement distresses observed were related to Climate distress classification. Distresses observed on Runway 5-23 consist of Longitudinal & Transverse Cracking, Raveling, and Weathering.

### Runway 18-36

Runway 18-36 consists of 1 section constructed of AAC. The last construction year for Runway 18-36 was 1986. The area-weighted average PCI for Runway 18-36 is 68 representing a Fair condition rating. The pavement distresses observed were related to Climate distress classification. Distresses observed on Runway 18-36 consist of Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

### Taxiway A

Taxiway A consists of 5 sections constructed of AC and AAC. The last construction year for Taxiway A was 1986. The area-weighted average PCI for Taxiway A is 63 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed on Taxiway A consist of Longitudinal & Transverse Cracking, Patching, Raveling, Swelling, and Weathering.

### Taxiway E

Taxiway E consists of 1 section constructed of AC. The last construction year for Taxiway E was 1999. The area-weighted average PCI for Taxiway E is 72 representing a Satisfactory condition rating. The pavement distresses observed were related to Climate distress classification. Distresses observed on Taxiway E consist of Longitudinal & Transverse Cracking, Raveling, and Weathering.



### Main Apron

Main Apron consists of 1 section constructed of AC. The last construction year for Main Apron was 1999. The area-weighted average PCI for Main Apron is 68 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed on Main Apron consist of Depression, Longitudinal & Transverse Cracking, Patching, Raveling, and Weathering.

### South Apron "A"

South Apron "A" consists of 3 sections constructed of AC. The last construction year for South Apron "A" was 1986. The area-weighted average PCI for South Apron "A" is 67 representing a Fair condition rating. The pavement distresses observed were related to Climate and Other distress classifications. Distresses observed on South Apron "A" consist of Block Cracking, Depression, Longitudinal & Transverse Cracking, Raveling, Swelling, and Weathering.

### Figure 4.2.2 Pavement Condition Summary by Facility Use

Facility Use	Area-Weighted Average PCI	Condition Rating
Runway	68	Fair
Taxiway	66	Fair
Apron	68	Fair
Taxilane	59	Fair



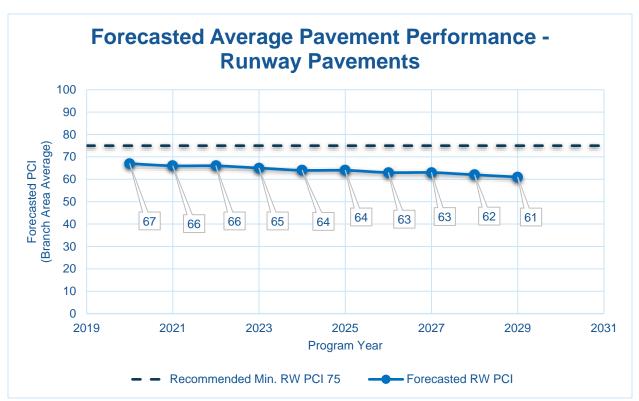
### 4.3 Forecasted Pavement Conditions

### 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



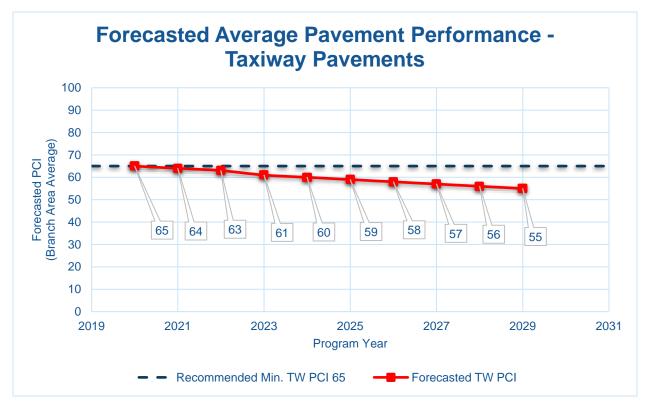
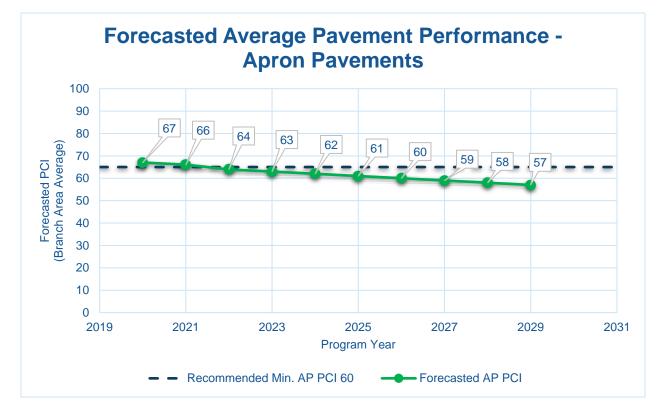


Figure 4.3.2 (c) Forecasted Apron Pavement Performance





### 4.3.3 Section-Level Pavement Condition Forecast

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

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Network	Branch ID	Section	Last PCI	Forecasted PCI									
ID	Branch ID	ID		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
VDF	AP E	4510	69	67	66	64	63	62	61	60	59	58	58
VDF	AP MAIN	4410	68	66	65	64	63	61	60	60	59	58	57
VDF	AP N	4205	71	69	67	66	65	64	62	61	60	60	59
VDF	AP N	4210	65	63	62	61	60	59	58	58	57	56	55
VDF	AP N	4215	66	64	63	62	61	60	59	58	57	57	56
VDF	AP RU 18	5305	58	57	56	55	55	54	53	52	52	51	50
VDF	AP RU 23	5105	71	69	67	66	65	64	62	61	60	60	59
VDF	AP RU 5	5205	71	69	67	66	65	64	62	61	60	60	59
VDF	AP S	4105	64	62	61	60	59	59	58	57	56	56	55
VDF	AP S	4110	70	68	67	65	64	63	62	61	60	59	58
VDF	AP S	4115	74	72	70	69	67	66	65	63	62	61	60
VDF	AP T-HANG	4310	73	71	69	68	66	65	64	63	62	61	60
VDF	AP T-HANG	4315	69	66	64	62	60	58	56	53	51	49	47
VDF	RW 18-36	6105	68	67	66	65	64	63	63	62	61	61	60
VDF	RW 5-23	6205	68	67	66	66	66	65	64	64	63	62	62
VDF	TL J	4505	59	57	56	55	54	53	52	52	51	50	49
VDF	TW A	105	63	61	60	59	58	57	56	55	54	53	52
VDF	TW A	120	69	67	66	65	64	62	61	60	59	58	57
VDF	TW A	140	65	64	63	62	61	60	59	59	58	57	56
VDF	TW A	160	60	59	58	57	56	55	55	54	53	52	51
VDF	TW A	180	70	68	67	66	65	65	64	63	62	61	60
VDF	TW B	210	21	20	20	20	20	20	20	20	20	20	20
VDF	TW B	250	28	27	27	27	27	27	27	27	27	27	27
VDF	TW C	405	70	68	67	66	65	63	62	61	60	59	58
VDF	TW D	170	61	59	58	57	56	55	54	53	52	51	50

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Network Bronch ID		Section	Last PCI -					Forecas	sted PCI				
ID	Branch ID	ID	Last PCI -	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
VDF	TW D	305	68	66	65	64	63	62	60	59	58	57	56
VDF	TW D	310	81	79	78	76	75	73	72	71	69	68	67
VDF	TW E	505	72	70	69	68	66	65	64	63	62	61	59
VDF	TW E1	510	74	72	71	70	68	67	66	65	63	62	61
VDF	TW E2	515	70	68	67	66	65	63	62	61	60	59	58
VDF	TW E3	520	71	69	68	67	65	64	63	62	61	60	59
VDF	TW E4	525	72	70	69	68	66	65	64	63	62	61	59
VDF	TW F	605	73	71	70	69	67	66	65	64	63	61	60
VDF	TW F	610	70	68	67	66	65	63	62	61	60	59	58
VDF	TW F	615	67	65	64	63	62	61	60	58	57	56	55
VDF	TW J	705	65	63	62	61	60	59	58	57	56	55	54
VDF	TW J	710	64	62	61	60	59	58	57	56	55	54	53
VDF	TW J	715	64	62	61	60	59	58	57	56	55	54	53



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.

### Statewide Airfield Pavement Management Program



# **Chapter 5**



# Chapter 5 – Localized Maintenance and Repair Planning

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

- > Localized Maintenance and Repair includes patching and crack sealing.
- > Global Treatments 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.

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### 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.

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

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

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

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Distress	Severity	Description	Code	Work Type	Work Unit
64	Low	DURABIL. CR	FDOT-MO-PV	FDOT - MONITOR	N/A
64	Medium	DURABIL. CR	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
64	High	DURABIL. CR	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
65	Low	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
65	Medium	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
65	High	JT SEAL DMG	FDOT-JS-PC	FDOT - JOINT SEAL - PCC	Ft
66	Low	SMALL PATCH	FDOT-MO-PV	FDOT - MONITOR	N/A
66	Medium	SMALL PATCH	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
66	High	SMALL PATCH	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
67	Low	LARGE PATCH	FDOT-MO-PV	FDOT - MONITOR	N/A
67	Medium	LARGE PATCH	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
67	High	LARGE PATCH	FDOT-PA-PF	FDOT - PATCHING - PCC FULL DEPTH	SqFt
68	N/A	POPOUTS	FDOT-PO-FL	FDOT - POPOUT FILLER	SqFt
69	N/A	PUMPING	FDOT-SB-PC	FDOT – SLAB STABILIZATION - PCC	SqFt
70	Low	SCALING	FDOT-MO-PV	FDOT - MONITOR	N/A
70	Medium	SCALING	FDOT-PA-PP	FDOT - PATCHING - PCC PARTIAL DEPTH	SqFt
70	High	SCALING	FDOT-SL-PC	FDOT - SLAB REPLACEMENT - PCC	SqFt
71	Low	FAULTING	FDOT-MO-PV	IO-PV FDOT - MONITOR I	
71	Medium	FAULTING	FDOT-GR-PP	FDOT - GRINDING (LOCALIZED)	Ft
71	High	FAULTING	FDOT-GR-PP	PP FDOT - GRINDING (LOCALIZED) Ft	
72	Low	SHAT. SLAB	FDOT-CS-PC	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		SqFt
FDOT-PA-AP	FDOT - PATCHING - AC PARTIAL DEPTH	\$4.00	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	\$150.00	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.

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# 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.

Work Description	Work Category	Rough Estimate of Work Quantity	Work Units	Plann	ing Material Cost
FDOT - SURFACE SEAL	PREVENTIVE	1,842,060	SqFt	\$	1,013,150.00
FDOT - CRACK SEALING - AC	PREVENTIVE	1,100	Ft	\$	3,300.00
FDOT - PATCHING - AC PARTIAL DEPTH	PREVENTIVE	2,665	SqFt	\$	10,660.00
FDOT - PATCHING - AC FULL DEPTH	PREVENTIVE	3,725	SqFt	\$	33,490.00
FDOT - SURFACE SEAL	STOPGAP	315,880	SqFt	\$	173,740.00
FDOT - PATCHING - AC PARTIAL DEPTH	STOPGAP	23,925	SqFt	\$	95,690.00
FDOT - PATCHING - AC FULL DEPTH	STOPGAP	3,890	SqFt	\$	35,000.00
FDOT - CRACK SEALING - AC	STOPGAP	3,065	Ft	\$	9,190.00

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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.

Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
VDF	AP E	4510	37,084	69	96	\$ 21,690.00
VDF	AP MAIN	4410	424,105	68	91	\$ 241,210.00
VDF	AP N	4205	131,692	71	88	\$ 72,440.00
VDF	AP N	4210	100,788	65	68	\$ 3,480.00
VDF	AP N	4215	5,688	66	79	\$ 3,130.00
VDF	AP RU 18	5305	3,338	58	74	\$ 2,120.00
VDF	AP RU 23	5105	24,994	71	94	\$ 13,760.00
VDF	AP RU 5	5205	71,353	71	91	\$ 38,700.00
VDF	AP S	4105	77,746	64	78	\$ 46,190.00
VDF	AP S	4110	115,269	70	84	\$ 64,630.00
VDF	AP S	4115	4,786	74	95	\$ 2,650.00
VDF	AP T-HANG	4310	147,914	73	74	\$ 9,290.00
VDF	AP T-HANG	4315	12,031	69	74	\$ 1,000.00
VDF	RW 18-36	6105	243,145	68	89	\$ 136,340.00
VDF	RW 5-23	6205	500,000	68	89	\$ 265,990.00
VDF	TL J	4505	28,314	59	89	\$ 21,590.00
VDF	TW A	105	114,664	63	85	\$ 69,480.00
VDF	TW A	120	2,772	69	93	\$ 1,530.00
VDF	TW A	140	3,862	65	88	\$ 1,220.00
VDF	TW A	160	3,861	60	77	\$ 1,930.00
VDF	TW A	180	4,111	70	85	\$ 1,310.00
VDF	TW B	210	15,268	21	48	\$ 74,250.00
VDF	TW B	250	7,286	28	57	\$ 30,580.00
VDF	TW C	405	21,767	70	90	\$ 11,980.00
VDF	TW D	170	5,063	61	86	\$ 2,680.00
VDF	TW D	305	24,475	68	92	\$ 13,470.00
VDF	TW D	310	6,936	81	83	\$ 40.00
VDF	TW E	505	145,723	72	95	\$ 80,710.00
VDF	TW E1	510	9,543	74	94	\$ 4,170.00
VDF	TW E2	515	9,511	70	91	\$ 5,440.00
VDF	TW E3	520	9,876	71	96	\$ 5,450.00
VDF	TW E4	525	8,961	72	98	\$ 4,940.00

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

Airport Pavement 2019 Evaluation Report

Tampa Executive Airport (VDF)



Network ID	Branch ID	Section ID	Area (SF)	Start Condition	End Condition	Cost
VDF	TW F	605	98,237	73	94	\$ 54,470.00
VDF	TW F	610	4,871	70	92	\$ 2,690.00
VDF	TW F	615	4,552	67	91	\$ 3,840.00
VDF	TW J	705	61,282	65	86	\$ 35,960.00
VDF	TW J	710	31,786	64	91	\$ 17,650.00
VDF	TW J	715	12,020	64	93	\$ 6,680.00

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	\$	1,060,600.00
Stopgap	\$	313,620.00
Planning-Level Localized M&R Needs =		1,374,220.00

# Statewide Airfield Pavement Management Program



# **Chapter 6**

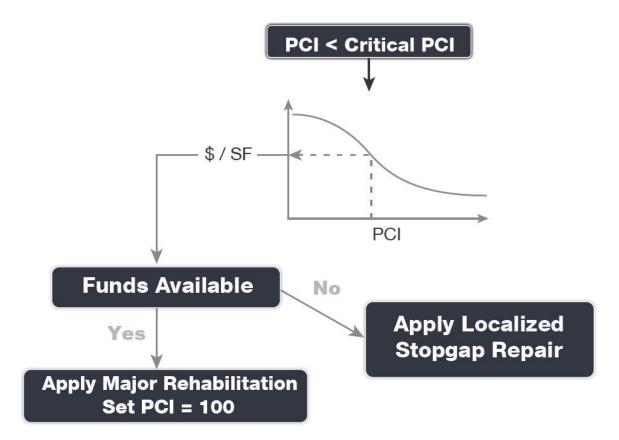


# Chapter 6 – Major Rehabilitation Planning

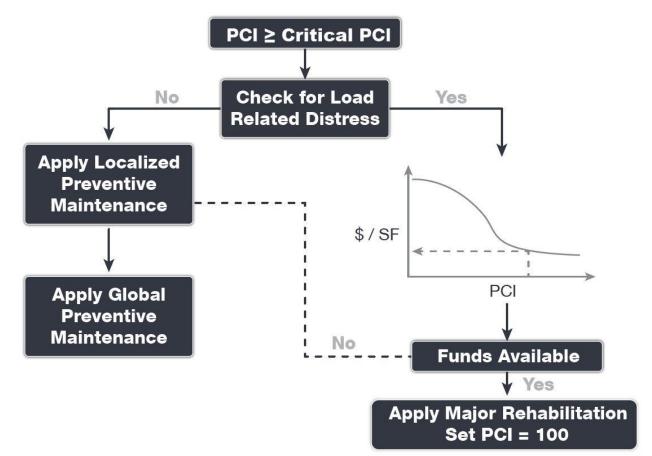
# 6.1 Major Rehabilitation

Major rehabilitation is recommended to correct or improve structural deficiencies and/or functional deterioration for pavement sections within a network. Often, when pavements are subject to significant changes in the aircraft fleet mix (frequency and type), major rehabilitation is required to provide a pavement section to meet the traffic demand. Major rehabilitation is recommended when a pavement section falls below the Critical PCI value that is defined during the system customization or if a pavement section has a significant observation of load-related distress. Observation of any load-related distress potentially indicates that the section may be structurally deficient or that the aircraft loads being applied to the pavement section are different than what the section was designed for. Figures 6.1 (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,  $PCI \leq Critical PCI$ 



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 plan.
- 3. Apply the selected localized policy to the pavement sections for a range of PCI.
- 4. Compute the unit cost per area for each PCI range.
- 5. Plot the cost versus the PCI.
- 6. Determine the Critical PCI based on the point where the cost is insignificant.

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

## 6.1.2 FDOT Recommended Minimum Service-Level PCI

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

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

#### Table 6.1.2 FDOT Recommended Minimum Service-Level PCI

# 6.2 Major Rehabilitation Policy

# 6.2.1 Major Rehabilitation Pavement Section Development

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

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

Rehabilitation Type	Reliever (RL) Airport
AC Restoration Combination of asphalt pavement milling and overlay with 25% of the areas subject to full- depth reconstruction.	<b>75% Mill and Overlay</b> P-101 AC Milling (3") P-603 Bituminous Tack P-401 (HMA) (3")
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 (4") Excludes any paved shoulder features.
AC Reconstruction	P-101 Pavement Removal P-152 Subgrade (12") P-211 Base (8")
Full-depth asphalt pavement section reconstruction.	P-602 Bituminous Prime P-603 Bituminous Tack P-401 HMA (4") Excludes any paved shoulder features.
PCI = 40 or less	

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



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Rehabilitation Type	Reliever (RL) Airport
<ul> <li>PCC Restoration</li> <li>Restoration of PCC pavement with a combination of crack sealing, joint seal replacement, and replacement of 25% of slab panels.</li> <li>PCI = 41 to 65</li> </ul>	P-101 Pavement Removal P-605 Joint Seal Repair P-152 Subgrade (12") P-211 Base (if needed, typical) (6") P-501 Rigid PCC (15") *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 (14")

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

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

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.

Rehabilitation Type	PCI Range	le Asphalt Cost Per SF	tland Cement Cost per SF
Restoration	41 to 65	\$ 9.50	\$ 13.50
Reconstruction	0 to 40	\$ 12.50	\$ 20.00

#### Table 6.2.2 Reliever (RL) Major Rehabilitation Planning-Level Unit Cost by Pavement Type

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

# 6.3 Major Rehabilitation Needs

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

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

# 6.3.1 10-Year Unconstrained Budget Major Rehabilitation Needs

An unconstrained budget (unlimited budget) is performed for a 10-year duration to identify pavement rehabilitation needs based on current or forecasted PCI values deteriorating below the Critical PCI. FDOT recognizes airports are constrained by budgets and does not intend to convey an unrealistic approach of addressing pavement rehabilitation. The intent of the 10-Year Major Rehabilitation Needs analysis is to identify pavements that will warrant rehabilitation. It is highly recommended that airport staff utilize this information in support of the development of a practical Capital Improvement Program based on priorities, further design/project-level

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investigation, and budgetary constraints. The following **Table 6.3.1** summarizes all identified section-level major rehabilitation needs forecasted for the next 10-year period. It should be noted that the following table depicts planning-level costs and have been rounded for planning purposes.

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Pla	nning Cost
2020	VDF	AP N	4210	AC	100,788	63	AC Restoration	\$	958,000.00
2020	VDF	AP N	4215	AC	5,688	64	AC Restoration	\$	55,000.00
2020	VDF	AP RU 18	5305	AC	3,338	57	AC Restoration	\$	32,000.00
2020	VDF	AP S	4105	AC	77,746	62	AC Restoration	\$	739,000.00
2020	VDF	TL J	4505	AC	28,314	57	AC Restoration	\$	269,000.00
2020	VDF	TW A	105	AC	114,664	61	AC Restoration	\$	1,090,000.00
2020	VDF	TW A	140	AAC	3,862	64	AC Restoration	\$	37,000.00
2020	VDF	TW A	160	AAC	3,861	59	AC Restoration	\$	37,000.00
2020	VDF	TW B	210	AC	15,268	20	AC Reconstruction	\$	191,000.00
2020	VDF	TW B	250	AC	7,286	27	AC Reconstruction	\$	92,000.00
2020	VDF	TW D	170	AC	5,063	59	AC Restoration	\$	49,000.00
2020	VDF	TW J	705	AC	61,282	63	AC Restoration	\$	583,000.00
2020	VDF	TW J	710	AC	31,786	62	AC Restoration	\$	302,000.00
2020	VDF	TW J	715	AC	12,020	62	AC Restoration	\$	115,000.00
2021	VDF	AP T-HANG	4315	AAC	12,031	64	AC Restoration	\$	115,000.00
2021	VDF	TW F	615	AC	4,552	64	AC Restoration	\$	44,000.00
2022	VDF	AP E	4510	AC	37,084	64	AC Restoration	\$	353,000.00
2022	VDF	AP MAIN	4410	AC	424,105	64	AC Restoration	\$	4,030,000.00
2022	VDF	TW D	305	AC	24,475	64	AC Restoration	\$	233,000.00
2023	VDF	AP S	4110	AC	115,269	64	AC Restoration	\$	1,096,000.00
2023	VDF	RW 18-36	6105	AAC	243,145	64	AC Restoration	\$	2,310,000.00
2023	VDF	TW A	120	AC	2,772	64	AC Restoration	\$	27,000.00
2024	VDF	AP N	4205	AC	131,692	64	AC Restoration	\$	1,252,000.00
2024	VDF	AP RU 23	5105	AC	24,994	64	AC Restoration	\$	238,000.00
2024	VDF	AP RU 5	5205	AC	71,353	64	AC Restoration	\$	678,000.00
2024	VDF	TW C	405	AC	21,767	63	AC Restoration	\$	207,000.00
2024	VDF	TW E2	515	AC	9,511	63	AC Restoration	\$	91,000.00
2024	VDF	TW E3	520	AC	9,876	64	AC Restoration	\$	94,000.00
2024	VDF	TW F	610	AC	4,871	63	AC Restoration	\$	47,000.00
2025	VDF	AP T-HANG	4310	AC	147,914	64	AC Restoration	\$	1,406,000.00
2025	VDF	RW 5-23	6205	AC	500,000	64	AC Restoration	\$	4,751,000.00
2025	VDF	TW A	180	AAC	4,111	64	AC Restoration	\$	40,000.00
2025	VDF	TW E	505	AC	145,723	64	AC Restoration	\$	1,385,000.00

#### Table 6.3.1 10-Year Major Rehabilitation Needs

Airport Pavement 2019 Evaluation Report

Tampa Executive Airport (VDF)



Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Pla	nning Cost
2025	VDF	TW E4	525	AC	8,961	64	AC Restoration	\$	86,000.00
2026	VDF	AP S	4115	AC	4,786	63	AC Restoration	\$	46,000.00
2026	VDF	TW F	605	AC	98,237	64	AC Restoration	\$	934,000.00
2027	VDF	TW E1	510	AC	9,543	63	AC Restoration	\$	91,000.00

\*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.



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



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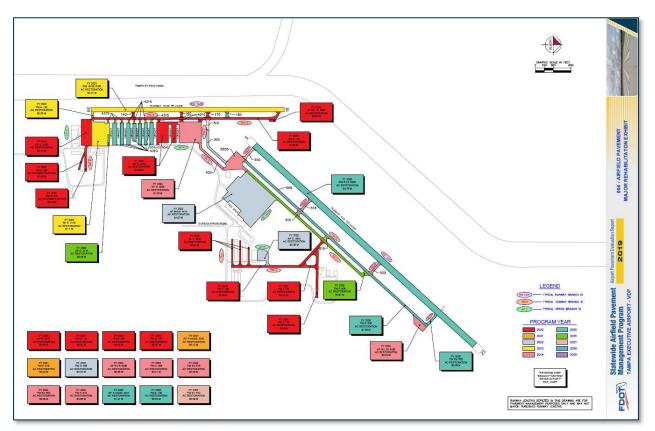


Figure 6.3.1 (b) 10-Year Major Rehabilitation Needs by Program Year Exhibit

# Statewide Airfield Pavement Management Program



# **Chapter 7**

# Chapter 7 – Conclusion

# 7.1 Recommendations

# 7.1.1 Continued PCI Survey Inspections

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

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

## 7.1.2 Localized Maintenance and Repair

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

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

# 7.1.3 Major Rehabilitation

Chapter 6 – Major Rehabilitation Planning identified major pavement rehabilitation project needs from 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<sup>™</sup> software to determine PCI values. The PCI values are identified in the exhibit and graphically represented using the standard ASTM D5340-12 colors for condition rating categories.

## 004 – Airfield Pavement Major Rehabilitation Exhibit

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

#### Inspection Photograph Documentation

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



# 7.3 Conclusion

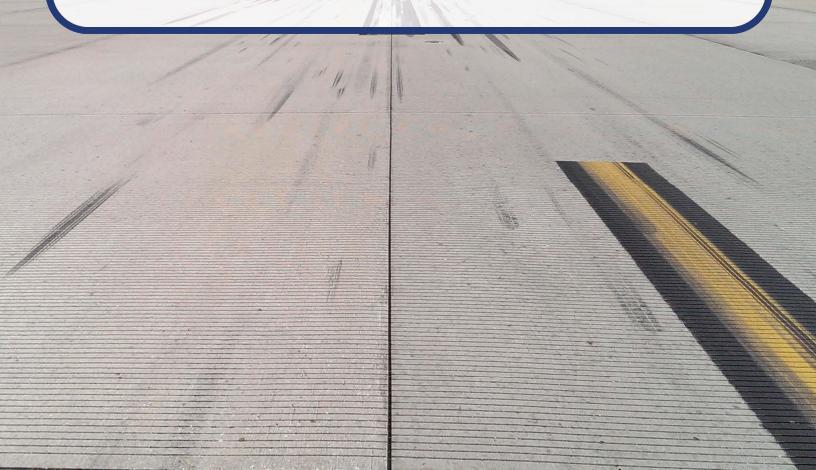
The FDOT SAPMP Update Phase 2 2018-2019 was completed for the airport on behalf of the FDOT ASO in accordance with the Advisory Circulars **150/5380-7B** "Airport Pavement Management Program (PMP)" and **150/5380-6C** "Guidelines and Procedures for Maintenance of Airport Pavements." FDOT's implementation 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."

# Statewide Airfield Pavement Management Program



# Appendix A

# **Airfield Pavement Analysis Tables**



2019

Tampa Executive Airport (VDF)



Table A-1	Pavement	System	Inventory	Details
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Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
VDF	EAST APRON	AP E	APRON	4510	190	190	37,084	AC	1/1/1999
VDF	MAIN APRON	AP MAIN	APRON	4410	688	545	424,105	AC	1/1/1999
VDF	NORTH APRON "B"	AP N	APRON	4205	373	350	131,692	AC	1/1/1991
VDF	NORTH APRON "B"	AP N	APRON	4210	350	275	100,788	AC	1/1/1986
VDF	NORTH APRON "B"	AP N	APRON	4215	100	55	5,688	AC	1/1/1986
VDF	RUN-UP APRON 18	AP RU 18	APRON	5305	100	30	3,338	AC	1/1/1986
VDF	RUN-UP APRON 23	AP RU 23	APRON	5105	225	100	24,994	AC	1/1/1986
VDF	RUN-UP APRON 05	AP RU 5	APRON	5205	300	200	71,353	AC	1/1/1999
VDF	SOUTH APRON "A"	AP S	APRON	4105	445	175	77,746	AC	1/1/1986
VDF	SOUTH APRON "A"	AP S	APRON	4110	300	400	115,269	AC	1/1/1986
VDF	SOUTH APRON "A"	AP S	APRON	4115	192	25	4,786	AC	1/1/1986
VDF	T-HANGARS APRON	AP T-HANG	APRON	4310	368	415	147,914	AC	1/1/1974
VDF	T-HANGARS APRON	AP T-HANG	APRON	4315	300	40	12,031	AAC	12/26/2009
VDF	RUNWAY 18-36	RW 18-36	RUNWAY	6105	3,259	75	243,145	AAC	1/2/1986
VDF	RUNWAY 5-23	RW 5-23	RUNWAY	6205	5,000	100	500,000	AC	1/1/1999
VDF	TAXILANE J	TL J	TAXILANE	4505	1,164	22	28,314	AC	1/1/1999
VDF	ΤΑΧΙΨΑΥ Α	TW A	TAXIWAY	105	3,200	35	114,664	AC	1/1/1986
VDF	ΤΑΧΙΨΑΥ Α	TW A	TAXIWAY	120	75	30	2,772	AC	1/1/1986
VDF	ΤΑΧΙΨΑΥ Α	TW A	TAXIWAY	140	100	35	3,862	AAC	1/2/1986
VDF	ΤΑΧΙΨΑΥ Α	TW A	TAXIWAY	160	100	35	3,861	AAC	1/2/1986
VDF	ΤΑΧΙΨΑΥ Α	TW A	TAXIWAY	180	100	35	4,111	AAC	1/2/1986
VDF	TAXIWAY B	TW B	TAXIWAY	210	430	35	15,268	AC	1/1/1989
VDF	TAXIWAY B	TW B	TAXIWAY	250	330	40	7,286	AC	1/1/1989
VDF	TAXIWAY C	TW C	TAXIWAY	405	600	35	21,767	AC	1/1/2001
VDF	TAXIWAY D	TW D	TAXIWAY	170	100	35	5,063	AC	1/1/1986
VDF	TAXIWAY D	TW D	TAXIWAY	305	700	35	24,475	AC	1/1/2001
VDF	TAXIWAY D	TW D	TAXIWAY	310	200	35	6,936	AC	1/1/2001
VDF	TAXIWAY E	TW E	TAXIWAY	505	4,156	35	145,723	AC	1/1/1999
VDF	TAXIWAY E-1	TW E1	TAXIWAY	510	233	35	9,543	AC	1/1/1999
VDF	TAXIWAY E-2	TW E2	TAXIWAY	515	233	35	9,511	AC	1/1/1999
VDF	TAXIWAY E-3	TW E3	TAXIWAY	520	233	35	9,876	AC	1/1/1999
VDF	TAXIWAY E-4	TW E4	TAXIWAY	525	233	35	8,961	AC	1/1/1999
VDF	TAXIWAY F	TW F	TAXIWAY	605	2,645	35	98,237	AC	1/1/1999
VDF	TAXIWAY F	TW F	TAXIWAY	610	70	50	4,871	AC	1/1/1999
VDF	TAXIWAY F	TW F	TAXIWAY	615	100	40	4,552	AC	1/1/1999
VDF	TAXIWAY J	TW J	TAXIWAY	705	1,700	35	61,282	AC	1/1/1999

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Network ID	Branch Name	Branch ID	Branch Use	Section ID	Length (FT)	Width (FT)	Area (SF)	Surface Type	Est. Last Construction Date
VDF	TAXIWAY J	TW J	TAXIWAY	710	830	35	31,786	AC	1/1/1999
VDF	TAXIWAY J	TW J	TAXIWAY	715	232	35	12,020	AC	1/1/1999



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

Network	Branch Name	Branch Use	Section	Area (SF)	PCI	Condition
ID			ID			Rating
VDF	RUNWAY 18-36	RUNWAY	6105	243,145	68	Fair
VDF	RUNWAY 5-23	RUNWAY	6205	500,000	68	Fair
VDF	ΤΑΧΙΨΑΥ Α	TAXIWAY	105	114,664	63	Fair
VDF	ΤΑΧΙΨΑΥ Α	TAXIWAY	120	2,772	69	Fair
VDF	ΤΑΧΙΨΑΥ Α	TAXIWAY	140	3,862	65	Fair
VDF	ΤΑΧΙΨΑΥ Α	TAXIWAY	160	3,861	60	Fair
VDF	ΤΑΧΙΨΑΥ Α	TAXIWAY	180	4,111	70	Fair
VDF	TAXIWAY B	TAXIWAY	210	15,268	21	Serious
VDF	TAXIWAY B	TAXIWAY	250	7,286	28	Very Poor
VDF	TAXIWAY C	TAXIWAY	405	21,767	70	Fair
VDF	TAXIWAY D	TAXIWAY	170	5,063	61	Fair
VDF	TAXIWAY D	TAXIWAY	305	24,475	68	Fair
VDF	TAXIWAY D	TAXIWAY	310	6,936	81	Satisfactory
VDF	TAXIWAY E	TAXIWAY	505	145,723	72	Satisfactory
VDF	TAXIWAY E-1	TAXIWAY	510	9,543	74	Satisfactory
VDF	TAXIWAY E-2	TAXIWAY	515	9,511	70	Fair
VDF	TAXIWAY E-3	TAXIWAY	520	9,876	71	Satisfactory
VDF	TAXIWAY E-4	TAXIWAY	525	8,961	72	Satisfactory
VDF	TAXIWAY F	TAXIWAY	605	98,237	73	Satisfactory
VDF	TAXIWAY F	TAXIWAY	610	4,871	70	Fair
VDF	TAXIWAY F	TAXIWAY	615	4,552	67	Fair
VDF	TAXIWAY J	TAXIWAY	705	61,282	65	Fair
VDF	TAXIWAY J	TAXIWAY	710	31,786	64	Fair
VDF	TAXIWAY J	TAXIWAY	715	12,020	64	Fair
VDF	TAXILANE J	TAXILANE	4505	28,314	59	Fair
VDF	SOUTH APRON "A"	APRON	4105	77,746	64	Fair
VDF	SOUTH APRON "A"	APRON	4110	115,269	70	Fair
VDF	SOUTH APRON "A"	APRON	4115	4,786	74	Satisfactory
VDF	NORTH APRON "B"	APRON	4205	131,692	71	Satisfactory
VDF	NORTH APRON "B"	APRON	4210	100,788	65	Fair
VDF	NORTH APRON "B"	APRON	4215	5,688	66	Fair
VDF	T-HANGARS APRON	APRON	4310	147,914	73	Satisfactory
VDF	T-HANGARS APRON	APRON	4315	12,031	69	Fair
VDF	MAIN APRON	APRON	4410	424,105	68	Fair
VDF	EAST APRON	APRON	4510	37,084	69	Fair
VDF	RUN-UP APRON 23	APRON	5105	24,994	71	Satisfactory
VDF	RUN-UP APRON 05	APRON	5205	71,353	71	Satisfactory
VDF	RUN-UP APRON 18	APRON	5305	3,338	58	Fair

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#### Table A-3 Forecasted PCI 2020-2029

Network	Branch ID	Section	Last					Forecas					
ID		ID	PCI	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
VDF	AP E	4510	69	67	66	64	63	62	61	60	59	58	58
VDF	AP MAIN	4410	68	66	65	64	63	61	60	60	59	58	57
VDF	AP N	4205	71	69	67	66	65	64	62	61	60	60	59
VDF	AP N	4210	65	63	62	61	60	59	58	58	57	56	55
VDF	AP N	4215	66	64	63	62	61	60	59	58	57	57	56
VDF	AP RU 18	5305	58	57	56	55	55	54	53	52	52	51	50
VDF	AP RU 23	5105	71	69	67	66	65	64	62	61	60	60	59
VDF	AP RU 5	5205	71	69	67	66	65	64	62	61	60	60	59
VDF	AP S	4105	64	62	61	60	59	59	58	57	56	56	55
VDF	AP S	4110	70	68	67	65	64	63	62	61	60	59	58
VDF	AP S	4115	74	72	70	69	67	66	65	63	62	61	60
VDF	AP T-HANG	4310	73	71	69	68	66	65	64	63	62	61	60
VDF	AP T-HANG	4315	69	66	64	62	60	58	56	53	51	49	47
VDF	RW 18-36	6105	68	67	66	65	64	63	63	62	61	61	60
VDF	RW 5-23	6205	68	67	66	66	66	65	64	64	63	62	62
VDF	TL J	4505	59	57	56	55	54	53	52	52	51	50	49
VDF	TW A	105	63	61	60	59	58	57	56	55	54	53	52
VDF	TW A	120	69	67	66	65	64	62	61	60	59	58	57
VDF	TW A	140	65	64	63	62	61	60	59	59	58	57	56
VDF	TW A	160	60	59	58	57	56	55	55	54	53	52	51
VDF	TW A	180	70	68	67	66	65	65	64	63	62	61	60
VDF	TW B	210	21	20	20	20	20	20	20	20	20	20	20
VDF	TW B	250	28	27	27	27	27	27	27	27	27	27	27
VDF	TW C	405	70	68	67	66	65	63	62	61	60	59	58
VDF	TW D	170	61	59	58	57	56	55	54	53	52	51	50
VDF	TW D	305	68	66	65	64	63	62	60	59	58	57	56
VDF	TW D	310	81	79	78	76	75	73	72	71	69	68	67
VDF	TW E	505	72	70	69	68	66	65	64	63	62	61	59
VDF	TW E1	510	74	72	71	70	68	67	66	65	63	62	61
VDF	TW E2	515	70	68	67	66	65	63	62	61	60	59	58
VDF	TW E3	520	71	69	68	67	65	64	63	62	61	60	59
VDF	TW E4	525	72	70	69	68	66	65	64	63	62	61	59
VDF	TW F	605	73	71	70	69	67	66	65	64	63	61	60
VDF	TW F	610	70	68	67	66	65	63	62	61	60	59	58
VDF	TW F	615	67	65	64	63	62	61	60	58	57	56	55
VDF	TW J	705	65	63	62	61	60	59	58	57	56	55	54
VDF	TW J	710	64	62	61	60	59	58	57	56	55	54	53
VDF	TW J	715	64	62	61	60	59	58	57	56	55	54	53

# Work History Report

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L		Pavement Database	: FDOT			
<b>Network:</b> <b>L.C.D.</b> 1/1/1		XECUTIV Branch: AP E se: APRON Rank: P		APRON .00 (Ft) Wie	Section:	4510 <b>Surface:</b> AC 0 (Ft) <b>True Area:</b> 37084.00001 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1999	NU-IN	New Construction - Initial	0.00	0.00		
Network:	TAMPA E	XECUTIV Branch: AP M	AIN MAIN	APRON	Section:	4410 Surface:AC
<b>L.C.D.</b> 1/1/1	i	se: APRON Rank: T	Length: 688	· /		0 (Ft) True Area: 424105.0001 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1999	NU-IN	New Construction - Initial	0.00	0.00		
<b>Network:</b> <b>L.C.D.</b> 1/1/1		XECUTIV Branch: AP N se: APRON Rank: P		H APRON " .00 (Ft) Wie	Section:	4205 <b>Surface:</b> AC 0 (Ft) <b>True Area:</b> 131692.0000 (SqFt
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1991	IMPORT ED	BUILT	0.00	0.00		EST 1991 BIT
L.C.D. 1/1/1 Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	0 (Ft) True Area: 100788.0000 (SqF Comments
<b>Work Date</b> 1/1/2014	Code			Thickness	Major	
1/1/1986	SL					1986 BIT SECTION UNKNOWN
	ED ED	BUILT	0.00	0.00		1960 BH SECTION ONKNOWN
Network:	ED	BUILT XECUTIV Branch: AP N		0.00 H APRON "	Section:	
	ED TAMPA E	I XECUTIV <b>Branch:</b> AP N	NORT	H APRON "	Section:	4215 Surface:AC
	ED TAMPA E	I XECUTIV <b>Branch:</b> AP N	NORT	H APRON "	Section:	4215 Surface:AC
<b>L.C.D.</b> 1/1/1	ED TAMPA E 986 Us Work	XECUTIV <b>Branch:</b> AP N se: APRON <b>Rank:</b> P	NORT Length: 100	H APRON " .00 (Ft) Wit Thickness	Section: dth: 55.0 Major	4215 <b>Surface:</b> AC 0 (Ft) <b>True Area:</b> 5688.000001 (SqF
L.C.D. 1/1/1 Work Date 1/1/1986 Network:	ED TAMPA E 986 Us Work Code NU-IN TAMPA E	XECUTIV Branch: AP N se: APRON Rank: P Work Description New Construction - Initial XECUTIV Branch: AP RU	NORT Length: 100 Cost 0.00 U 18 RUN-U	H APRON " .00 (Ft) Wit Thickness (in) 4.50 JP APRON	Section: dth: 55.0 Major M&R V Section:	4215 Surface:AC 0 (Ft) True Area: 5688.000001 (SqF Comments 1986 4.5" FDOT S-1 BIT 5305 Surface:AC
L.C.D. 1/1/1 Work Date 1/1/1986 Network:	ED TAMPA E 986 Us Work Code NU-IN TAMPA E 986 Us Work	XECUTIV Branch: AP N se: APRON Rank: P Work Description New Construction - Initial XECUTIV Branch: AP RU	NORT Length: 100 Cost 0.00	H APRON " .00 (Ft) Wit Thickness (in) 4.50 JP APRON .00 (Ft) Wit Thickness	Section: dth: 55.0 Major M&R Section: dth: 30.0 Major	4215 Surface:AC 0 (Ft) True Area: 5688.000001 (SqF Comments 1986 4.5" FDOT S-1 BIT 5305 Surface:AC
L.C.D. 1/1/1 Work Date 1/1/1986 Network: L.C.D. 1/1/1	ED TAMPA E 986 Us Work Code NU-IN TAMPA E 986 Us	XECUTIV Branch: AP N se: APRON Rank: P Work Description New Construction - Initial XECUTIV Branch: AP RI se: APRON Rank: P	NORT Length: 100 Cost 0.00 U 18 RUN-U Length: 100	H APRON " .00 (Ft) Wit Thickness (in) 4.50 JP APRON .00 (Ft) Wit	Section: dth: 55.0 Major M&R Section: dth: 30.0	4215 Surface:AC 0 (Ft) True Area: 5688.000001 (SqF Comments 1986 4.5" FDOT S-1 BIT 5305 Surface:AC 0 (Ft) True Area: 3338.000001 (SqF
L.C.D. 1/1/1 Work Date 1/1/1986 Network: L.C.D. 1/1/1 Work Date 1/1/1986 Network:	ED TAMPA E 986 Us Work Code NU-IN TAMPA E NU-IN TAMPA E	XECUTIV Branch: AP N se: APRON Rank: P Work Description New Construction - Initial XECUTIV Branch: AP RU se: APRON Rank: P Work Description New Construction - Initial XECUTIV Branch: AP RU	NORT Length: 100 Cost 0.00 U 18 RUN-U Length: 100 Cost 0.00	H APRON " .00 (Ft) Wit Thickness (in) 4.50 JP APRON .00 (Ft) Wit Thickness (in) 0.00 JP APRON	Section: dth: 55.0 Major M&R V Section: dth: 30.0 Major M&R V Section:	4215         Surface:AC           0 (Ft)         True Area: 5688.000001 (SqF           Comments           1986 4.5" FDOT S-1 BIT           5305         Surface:AC           0 (Ft)         True Area: 3338.000001 (SqF           Comments           5105         Surface:AC
L.C.D. 1/1/1 Work Date 1/1/1986 Network: L.C.D. 1/1/1 Work Date 1/1/1986	ED TAMPA E 986 Us Work Code NU-IN TAMPA E NU-IN TAMPA E	XECUTIV Branch: AP N se: APRON Rank: P Work Description New Construction - Initial XECUTIV Branch: AP RU se: APRON Rank: P Work Description New Construction - Initial XECUTIV Branch: AP RU	NORT Length: 100 Cost 0.00 U 18 RUN-U Length: 100 Cost 0.00	H APRON " .00 (Ft) Wit Thickness (in) 4.50 JP APRON .00 (Ft) Wit Thickness (in) 0.00 JP APRON	Section: dth: 55.0 Major M&R V Section: dth: 30.0 Major M&R V Section:	4215 Surface:AC 0 (Ft) True Area: 5688.000001 (SqF Comments 1986 4.5" FDOT S-1 BIT 5305 Surface:AC 0 (Ft) True Area: 3338.000001 (SqF Comments

#### Work History Report

**Pavement Database: FDOT** 

Network: TAMPA EXECUTIV Branch: AP RU 5 **RUN-UP APRON** Section: 5205 Surface:AC L.C.D. 1/1/1999 Use: APRON Rank: P Length: 300.00 (Ft) Width: 200.00 (Ft) True Area: 71353.00002 (SqFt Work Thickness Major Work Date Work Description Cost Comments Code (in) M&R 1/1/1999 NU-IN New Construction - Initial 0.00 0.00 Network: TAMPA EXECUTIV Branch: AP S SOUTH APRON " Section: 4105 Surface:AC L.C.D. 1/1/1986 Use: APRON Rank: P Length: 445.00 (Ft) Width: 175.00 (Ft) True Area: 77746.00002 (SqFt Work Thickness Major Work Date Work Description Cost Comments Code (in) M&R 1986 2" FDOT S-1 BIT 5" P-211 12" 1/1/1986 IMPORT BUILT 0.00 2.00  $\checkmark$ ED P-152 Network: TAMPA EXECUTIV Branch: AP S SOUTH APRON " Section: 4110 Surface:AC L.C.D. 1/1/1986 Use: APRON Rank: P Length: 300.00 (Ft) Width: 400.00 (Ft) True Area: 115269.0000 (SqFt Work Thickness Major Work Date Work Description Cost Comments M&R Code (in) 1/1/1986 IMPORT BUILT 1986 2" NOM P-401 2.00 0.00 $\checkmark$ ED Network: TAMPA EXECUTIV Branch: AP S SOUTH APRON " Section: 4115 Surface:AC L.C.D. 1/1/1986 Use: APRON Length: 192.00 (Ft) Width: 25.00 (Ft) True Area: 4786.000001 (SqFt Rank: P Thickness Work Major Work Date Work Description Cost Comments M&R Code (in) 1/1/1986 IMPORT BUILT 0.00 0.00 EST 1986 BIT  $\checkmark$ ED Network: TAMPA EXECUTIV Branch: AP T-HANG T-HANGARS AP Section: 4310 Surface: AC L.C.D. 1/1/1974 Use: APRON Rank: P Length: 368.00 (Ft) Width: 415.00 (Ft) True Area: 147914.0000 (SqFt Work Thickness Major Work Date Work Description Cost Comments Code (in) M&R 1/1/2014 ST-Chip Surface Treatment - Chip Seal 0.00 0.00 SL IMPORT BUILT 1/1/1974 0.00  $\checkmark$ EST 1974 BIT 0.00 ED Section: 4315 Network: TAMPA EXECUTIV Branch: AP T-HANG T-HANGARS AP Surface: AAC L.C.D. 12/26/200 Use: APRON Rank: P Length: 300.00 (Ft) Width: 40.00 (Ft) True Area: 12031.00000 (SqFt Thickness Work Major Work Date Work Description Cost Comments Code M&R (in) 12/26/2009 ML-OV MILL and OVERLAY 0.00 0.00 2009: ESTIMATED OVERLAY  $\checkmark$ 12/25/1974 NU-IN New Construction - Initial 0.00 0.00  $\checkmark$ 1974: ESTIMATED CONSTRUCTIO Network: TAMPA EXECUTIV Branch: RW 18-36 **RUNWAY 18-36** Section: 6105 Surface:AAC L.C.D. 1/2/1986 Length: 3,259.00 (Ft) Width: 75.00 (Ft) True Area: 243145.0000 (SqFt Use: RUNWAY Rank: P Work Thickness Major Work Date Work Description Cost Comments Code (in) M&R 1/2/1986 OL-AS Overlay - AC Structural 0.00 3.00 < 1986 P-211 LIMEROCK. 1986 1.5" F 1/1/1986 NC-AC New Construction - AC 0.00 1.50  $\checkmark$ 1986 1.5" FDOT S-1 BIT

# Work History Report

Pavement Database: FDOT
Network: TAMPA EXECUTIV Branch: RW 5-23 RUNWAY 5-23

L.C.D.1/1/1999Use:RUNWAYRank:PLength:5,000.00 (Ft)Width:100.00 (Ft)True AreaWork DateWork CodeWork DescriptionCostThickness (in)Major M&RCont1/1/1999NU-INNew Construction - Initial0.002.00✓2" AC/6"Limeroc	: 500000.0001 (SqFt
Work Date         Code         Work Description         Cost         (in)         M&R         Cont	
1/1/1999NU-INNew Construction - Initial0.002.002" AC/6"Limeroc	nments
	k/6" Subgrade
Network: TAMPA EXECUTIV Branch: TL J TAXILANE J Section: 4505	Surface:AC
L.C.D. 1/1/1999 Use: TAXILAN Rank: P Length: 1,164.00 (Ft) Width: 22.00 (Ft) True Area	a: 28314.00000 (SqFt
Work DateWork CodeWork DescriptionCostThickness (in)Major M&RCont	nments
1/1/1999         NU-IN         New Construction - Initial         0.00         0.00         Image: Construction - Cons	
Network: TAMPA EXECUTIV Branch: TWA TAXIWAY A Section: 105 L.C.D. 1/1/1986 Use: TAXIWAY Rank: P Length: 3.200.00 (Ft) Width: 35.00 (Ft) True Area	Surface:AC
L.C.D. 1/1/1986 Use: TAXIWAY Rank: P Length: 3,200.00 (Ft) Width: 35.00 (Ft) True Area	l: 114664.0000 (SqFt
Work Date         Work Code         Work Description         Cost         Thickness         Major         Con	nments
1/1/1986         IMPORT         BUILT         0.00         1.50         Image: 1986 1.5" FDOT :	S-1 BIT
Network: TAMPA EXECUTIV Branch: TWA TAXIWAY A Section: 120	Surface:AC
L.C.D. 1/1/1986 Use: TAXIWAY Rank: P Length: 75.00 (Ft) Width: 30.00 (Ft) True Area	<b>:</b> 2772.000000 (SqFt
Work Date         Work Code         Work Description         Cost         Thickness (in)         Major M&R         Cont	nments
1/1/1986         IMPORT         BUILT         0.00         1.50         ✓         1986 1.5 INCH FI	DOT S-1 ASPH
ED	
ED Network: TAMPA EXECUTIV Branch: TW A TAXIWAY A Section: 140	Surface:AAC
	Surface:AAC
Network: TAMPA EXECUTIV       Branch: TW A       TAXIWAY A       Section: 140         L.C.D. 1/2/1986       Use: TAXIWAY       Rank: P       Length: 100.00 (Ft)       Width: 35.00 (Ft)       True Area         Work       Thickness       Major	Surface:AAC
Network:       TAMPA EXECUTIV       Branch:       TW A       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work       Date       Work       Code       Work Description       Cost       Thickness (in)       Major M&R       Con	Surface:AAC a: 3862.000001 (SqFt
Network: TAMPA EXECUTIV       Branch: TW A       TAXIWAY A       Section: 140         L.C.D. 1/2/1986       Use: TAXIWAY       Rank: P       Length: 100.00 (Ft)       Width: 35.00 (Ft)       True Area         Work Date       Work       Code       Work Description       Cost       Thickness (in)       Major M&R       Cont	Surface:AAC a: 3862.000001 (SqFt nments EROCK. 1986 UP TO
Network:       TAMPA EXECUTIV       Branch:       TW A       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       V       1986 P-211 LIME	Surface:AAC a: 3862.000001 (SqFt nments EROCK. 1986 UP TO
Network:       TAMPA EXECUTIV       Branch:       TW A       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       V       1986 P-211 LIME	Surface:AAC a: 3862.000001 (SqFt nments EROCK. 1986 UP TO
Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       Image: 1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       Image: 1986 1.5" FDOT Structural         Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       160         L.C.D.       1/2/1986       Use:       TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area	Surface:AAC a: 3862.000001 (SqFt nments EROCK. 1986 UP TO S-1 BIT Surface:AAC
Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       ✓       1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       ✓       1986 1.5" FDOT         Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       160         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work	Surface:AAC a: 3862.000001 (SqFt nments EROCK. 1986 UP TO S-1 BIT Surface:AAC
Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       Image: 1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       Image: 1986 P-211 LIME         Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       1986 1.5" FDOT S         Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       160         L.C.D.       1/2/1986       Use:       TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work       Work Description       Cost       Thickness (in)       Major M&R       Con	Surface:AAC a: 3862.000001 (SqFt nments EROCK. 1986 UP TO S-1 BIT Surface:AAC a: 3861.000001 (SqFt
Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       Image: 1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       Image: 1986 P-211 LIME         Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       1986 1.5" FDOT S         Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       160         L.C.D.       1/2/1986       Use:       TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work       Work Description       Cost       Thickness (in)       Major M&R       Con	Surface:AAC a: 3862.000001 (SqFt mments BROCK. 1986 UP TO S-1 BIT Surface:AAC a: 3861.000001 (SqFt mments BROCK. 1986 UP TO
Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00       (Ft)       Width:       35.00       (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       ✓       1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       ✓       1986 1.5" FDOT S         Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       160         L.C.D.       1/2/1986       Use:       TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Network:       TAMPA EXECUTIV       Branch:       TWA       TAXIWAY A       Section:       160         L.C.D.       1/2/1986       Use:       TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness<	Surface: AAC a: 3862.000001 (SqFt nments EROCK. 1986 UP TO S-1 BIT Surface: AAC a: 3861.000001 (SqFt nments EROCK. 1986 UP TO S-1 BIT
Network: TAMPA EXECUTIV       Branch: TW A       TAXIWAY A       Section: 140         L.C.D. 1/2/1986       Use: TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       Image: Structural       1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       Image: Structural       1986 1.5" FDOT         Network: TAMPA EXECUTIV Branch: TW A       TAXIWAY A       Section: 160         L.C.D. 1/2/1986       Use: TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness       Major       Con         1/2/1986       Use: TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness       Major       Major         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       Im       198	Surface:AAC a: 3862.000001 (SqFt mments EROCK. 1986 UP TO S-1 BIT Surface:AAC a: 3861.000001 (SqFt mments EROCK. 1986 UP TO S-1 BIT Surface:AAC
Network:       TAMPA EXECUTIV       Branch:       TW A       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       ✓       1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       ✓       1986 1.5" FDOT :         Network:       TAMPA EXECUTIV       Branch:       TW A       TAXIWAY A       Section:       160         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       ✓       1986 P-2111 LIME         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       ✓	Surface: AAC a: 3862.000001 (SqFt nments EROCK. 1986 UP TO S-1 BIT Surface: AAC a: 3861.000001 (SqFt nments EROCK. 1986 UP TO S-1 BIT
Network: TAMPA EXECUTIV       Branch: TW A       TAXIWAY A       Section: 140         L.C.D. 1/2/1986       Use: TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work       Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       ✓       1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       ✓       1986 1.5" FDOT 3         Network: TAMPA EXECUTIV       Branch: TW A       TAXIWAY A       Section: 160         L.C.D. 1/2/1986       Use: TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       Use: TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       ✓       1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       ✓	Surface:AAC a: 3862.000001 (SqFt mments EROCK. 1986 UP TO S-1 BIT Surface:AAC a: 3861.000001 (SqFt mments EROCK. 1986 UP TO S-1 BIT Surface:AAC
Network:       TAMPA EXECUTIV       Branch:       TW A       TAXIWAY A       Section:       140         L.C.D.       1/2/1986       Use:       TAXIWAY       Rank:       P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       V       1986 P-211 LIME         1/1/1986       NC-AC       New Construction - AC       0.00       1.50       V       1986 1.5" FDOT 3         Network:       TAMPA EXECUTIV       Branch:       TW A       TAXIWAY A       Section:       160         L.C.D.       1/2/1986       Use:       TAXIWAY Rank: P       Length:       100.00 (Ft)       Width:       35.00 (Ft)       True Area         Work Date       Work Code       Work Description       Cost       Thickness (in)       Major M&R       Con         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       V       1986 P-211 LIME         1/2/1986       OL-AS       Overlay - AC Structural       0.00       3.00       V	Surface: AAC a: 3862.000001 (SqFt mments EROCK. 1986 UP TO S-1 BIT Surface: AAC a: 3861.000001 (SqFt mments EROCK. 1986 UP TO S-1 BIT Surface: AAC a: 4111.000001 (SqFt

#### Work History Report

**Pavement Database: FDOT** 

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Network: TAMPA EXECUTIV Branch: TW B TAXIWAY B Section: 210 Surface: AC L.C.D. 1/1/1989 Use: TAXIWAY Rank: P Length: 430.00 (Ft) Width: 35.00 (Ft) True Area: 15268.00000 (SqFt Work Thickness Major Work Date Cost Work Description Comments Code (in) M&R 1/1/1989 IMPORT BUILT 0.00 2.00 1989 2" P-401 6" P-211 12" P-152  $\checkmark$ ED Network: TAMPA EXECUTIV Branch: TW B TAXIWAY B Section: 250 Surface:AC **L.C.D.** 1/1/1989 330.00 (Ft) 40.00 (Ft) True Area: 7286.000002 (SqFt Use: TAXIWAY Rank: P Length: Width: Thickness Work Major Work Date Cost Work Description Comments Code (in) M&R 1/1/1989 IMPORT BUILT EST 1989 BIT 0.00 0.00  $\checkmark$ ED Network: TAMPA EXECUTIV Branch: TW C TAXIWAY C Section: 405 Surface:AC L.C.D. 1/1/2001 Use: TAXIWAY Rank: S Length: 600.00 (Ft) Width: 35.00 (Ft) True Area: 21767.00000 (SqFt Work Thickness Major Work Date Work Description Cost Comments Code (in) M&R 1/1/2001 NU-IN New Construction - Initial 0.00 0.00  $\checkmark$ Network: TAMPA EXECUTIV Branch: TW D TAXIWAY D Section: 170 Surface:AC Use: TAXIWAY Rank: P L.C.D. 1/1/1986 Length: 100.00 (Ft) Width: 35.00 (Ft) True Area: 5063.000001 (SqFt Thickness Work Major Work Date Work Description Cost Comments M&R Code (in) 1/1/1986 NU-IN New Construction - Initial 0.00 0.00  $\checkmark$ Section: 305 Network: TAMPA EXECUTIV Branch: TW D TAXIWAY D Surface: AC **L.C.D.** 1/1/2001 Use: TAXIWAY Rank: T Length: 700.00 (Ft) Width: 35.00 (Ft) True Area: 24475.00000 (SqFt Work Thickness Major Work Date Work Description Cost Comments Code (in) M&R 1/1/2001 NU-IN New Construction - Initial 0.00 0.00  $\checkmark$ Network: TAMPA EXECUTIV Branch: TW D TAXIWAY D Section: 310 Surface:AC L.C.D. 1/1/2001 Use: TAXIWAY Rank: T Length: 200.00 (Ft) Width: 35.00 (Ft) True Area: 6936.000002 (SqFt Work Thickness Major Work Date Work Description Cost Comments Code (in) M&R 1/1/2001 0.00 NU-IN New Construction - Initial 0.00  $\checkmark$ Network: TAMPA EXECUTIV Branch: TW E1 TAXIWAY E-1 Section: 510 Surface:AC L.C.D. 1/1/1999 Use: TAXIWAY Rank: P Length: 233.00 (Ft) Width: 35.00 (Ft) True Area: 9543.000002 (SqFt Work Thickness Major Work Date Work Description Cost Comments Code (in) M&R 1/1/1999 NU-IN 0.00 0.00 New Construction - Initial  $\checkmark$ Network: TAMPA EXECUTIV Branch: TW E2 TAXIWAY E-2 Section: 515 Surface:AC L.C.D. 1/1/1999 Use: TAXIWAY Rank: P Length: 233.00 (Ft) Width: 35.00 (Ft) True Area: 9511.000002 (SqFt Work Thickness Major Work Date Work Description Cost Comments Code M&R (in) 1/1/1999 NU-IN New Construction - Initial 0.00 0.00  $\checkmark$ 

# Work History Report

Pavement Database: FDOT

			Branch: TW			WAY E-3	Section:		Surface:AC
<b>L.C.D.</b> 1/1/1	999 Us Work	se: TAXIWAY	Rank: P		ength: 233	.00 (Ft) Wid	Major	0 (Ft)	True Area: 9876.000003 (SqFt
Work Date	Code	Work D	escription		Cost	(in)	M&R		Comments
1/1/1999	NU-IN	New Construct	ion - Initial		0.00	0.00			
Network:	TAMPA E	XECUTIV	Branch: TW	E4	TAXIV	WAY E-4	Section:	525	Surface:AC
<b>L.C.D.</b> 1/1/19	999 Us	se: TAXIWAY	Rank: P	L	ength: 233	.00 (Ft) Wie	dth: 35.0	0 (Ft)	True Area: 8961.000002 (SqFt
Work Date	Work Code	Work D	escription		Cost	Thickness (in)	Major M&R		Comments
1/1/1999	NU-IN	New Construct	ion - Initial		0.00	0.00			
Network:	TAMPA E	XECUTIV	Branch: TW	E	TAXIV	WAY E	Section:	505	Surface:AC
<b>L.C.D.</b> 1/1/19	999 Us	se: TAXIWAY	Rank: P	L	ength: 4,156	.00 (Ft) Wie	dth: 35.0	0 (Ft)	True Area: 145723.0000 (SqFt
Work Date	Work Code	Work D	escription		Cost	Thickness (in)	Major M&R		Comments
1/1/1999	NU-IN	New Construct	ion - Initial		0.00	0.00			
Network:	TAMPA E	XECUTIV	Branch: TW	F	TAXIV	WAY F	Section:	605	Surface:AC
L.C.D. 1/1/19		se: TAXIWAY	Rank: P	L	ength: 2,645		dth: 35.0	0 (Ft)	True Area: 98237.00003 (SqFt
Work Date	Work Code	Work D	escription		Cost	Thickness (in)	Major M&R		Comments
1/1/1000						. ,			
1/1/1999	NU-IN	New Construct	ion - Initial		0.00	0.00			
	TAMPA E	XECUTIV	Branch: TW	F		WAY F	Section:		Surface:AC
	TAMPA E 999 Us		Branch: TW		TAXIV	WAY F .00 (Ft) Wie	Section: dth: 50.0		
Network:	TAMPA E	XECUTIV Se: TAXIWAY	Branch: TW		TAXIV	WAY F	Section:		
<b>Network:</b> <b>L.C.D.</b> 1/1/1	TAMPA E 999 Us Work Code	XECUTIV Se: TAXIWAY	Branch: TW Rank: P Description		TAXIV ength: 70	WAY F .00 (Ft) Wie Thickness	Section: dth: 50.0 Major	0 (Ft)	True Area: 4871.000001 (SqFt
Network: L.C.D. 1/1/19 Work Date 1/1/1999	TAMPA E 999 Us Work Code NC-AC	EXECUTIV se: TAXIWAY Work D	Branch: TW Rank: P Description		TAXIV ength: 70 Cost 0.00	WAY F .00 (Ft) Wid Thickness (in)	Section: dth: 50.0 Major M&R	0 (Ft) Initial	True Area: 4871.000001 (SqFt Comments
Network: L.C.D. 1/1/19 Work Date 1/1/1999	TAMPA E 999 Us Work Code NC-AC TAMPA E	EXECUTIV se: TAXIWAY Work D New Construct	Branch: TW Rank: P Description ion - AC Branch: TW	L F	TAXIV ength: 70 Cost 0.00	WAY F .00 (Ft) With Thickness (in) 0.00 WAY F	Section: dth: 50.0 Major M&R V Section:	0 (Ft) Initial 615	True Area: 4871.000001 (SqFt Comments Construction Surface:AC
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network:	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code	EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY Work D	Branch: TW Rank: P Description ion - AC Branch: TW Rank: P	L F	TAXIV ength: 70 Cost 0.00 TAXIV	WAY F .00 (Ft) With Thickness (in) 0.00 WAY F	Section: dth: 50.0 Major M&R V Section:	0 (Ft) Initial 615	True Area: 4871.000001 (SqFt Comments Construction Surface:AC
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code	EXECUTIV se: TAXIWAY Work D New Construct EXECUTIV se: TAXIWAY	Branch: TW Rank: P Description ion - AC Branch: TW Rank: P	L F	TAXIV ength: 70 Cost 0.00 TAXIV ength: 100	WAY F .00 (Ft) Wit Thickness (in) 0.00 WAY F .00 (Ft) Wit Thickness (in)	Section: dth: 50.0 Major M&R Section: dth: 40.0 Major M&R	0 (Ft) Initial 615	True Area: 4871.000001 (SqFt Comments Construction Surface:AC True Area: 4552.000001 (SqFt
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19 Work Date	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code NU-IN	EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY Work D New Construct	Branch: TW Rank: P Description ion - AC Branch: TW Rank: P	L F L	TAXIV ength: 70 Cost 0.00 TAXIV ength: 100 Cost	WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY F .00 (Ft) Wid Thickness (in) 0.00	Section: dth: 50.0 Major M&R Section: dth: 40.0 Major M&R	0 (Ft) Initial 615 0 (Ft)	True Area: 4871.000001 (SqFt Comments Construction Surface:AC True Area: 4552.000001 (SqFt
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19 Work Date 1/1/1999	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code NU-IN	EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY Work D New Construct	Branch: TW Rank: P Description ion - AC Branch: TW Rank: P Description ion - Initial Branch: TW	F F L	TAXIV ength: 70 Cost 0.00 TAXIV ength: 100 Cost 0.00	WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY J	Section: dth: 50.0 Major M&R Section: dth: 40.0 Major M&R Section: Section:	0 (Ft) Initial 615 0 (Ft) 705	True Area: 4871.000001 (SqFt Comments Construction Surface:AC True Area: 4552.000001 (SqFt Comments Surface:AC
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network:	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code NU-IN	EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY New Construct EXECUTIV Se: TAXIWAY	Branch: TW Rank: P Description ion - AC Branch: TW Rank: P Description ion - Initial Branch: TW	F F L	TAXIV ength: 70 Cost 0.00 TAXIV ength: 100 Cost 0.00 TAXIV	WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY J	Section: dth: 50.0 Major M&R Section: dth: 40.0 Major M&R Section: Section:	0 (Ft) Initial 615 0 (Ft) 705	True Area: 4871.000001 (SqFt Comments Construction Surface:AC True Area: 4552.000001 (SqFt Comments Surface:AC
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19 Network: L.C.D. 1/1/19	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code NU-IN TAMPA E 999 Us	EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY New Construct EXECUTIV Se: TAXIWAY	Branch: TW Rank: P Description ion - AC Branch: TW Rank: P Description ion - Initial Branch: TW Rank: P	F F L	TAXIV ength: 70 Cost 0.00 TAXIV ength: 100 Cost 0.00 TAXIV ength: 1,700	WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY J .00 (Ft) Wid Thickness	Section: dth: 50.0 Major M&R Section: dth: 40.0 Major M&R Section: dth: 35.0 Major	0 (Ft) Initial 615 0 (Ft) 705	True Area: 4871.000001 (SqFt Comments Construction Surface:AC True Area: 4552.000001 (SqFt Comments Surface:AC True Area: 61282.00001 (SqFt
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19 Network: L.C.D. 1/1/19 Work Date 1/1/1999	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code NU-IN TAMPA E 999 Us	EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY New Construct EXECUTIV Se: TAXIWAY Work D New Construct	Branch: TW Rank: P Pescription ion - AC Branch: TW Rank: P Pescription ion - Initial Branch: TW Rank: P		TAXIV ength: 70 Cost 0.00 TAXIV ength: 100 Cost 0.00 TAXIV ength: 1,700 Cost 0.00	WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY J .00 (Ft) Wid Thickness (in) 0.00	Section: dth: 50.0 Major M&R Section: dth: 40.0 Major M&R Section: dth: 35.0 Major M&R Major M&R Section:	0 (Ft) Initial 615 0 (Ft) 705 0 (Ft)	True Area: 4871.000001 (SqFt Comments Construction Surface:AC True Area: 4552.000001 (SqFt Comments Surface:AC True Area: 61282.00001 (SqFt Comments
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code NU-IN TAMPA E 999 Us	EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY New Construct EXECUTIV Se: TAXIWAY Work D New Construct	Branch: TW Rank: P Description ion - AC Branch: TW Rank: P Description ion - Initial Branch: TW Rank: P Description ion - Initial		TAXIV ength: 70 Cost 0.00 TAXIV ength: 100 Cost 0.00 TAXIV ength: 1,700 Cost 0.00	WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY J .00 (Ft) Wid Thickness (in) 0.00	Section: dth: 50.0 Major M&R Section: dth: 40.0 Major M&R Section: dth: 35.0 Major M&R Section: dth: 35.0	0 (Ft) Initial 615 0 (Ft) 705 0 (Ft) 710	True Area: 4871.000001 (SqFt Comments Construction Surface:AC True Area: 4552.000001 (SqFt Comments Surface:AC True Area: 61282.00001 (SqFt
Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19 Work Date 1/1/1999 Network: L.C.D. 1/1/19 Work Date 1/1/1999	TAMPA E 999 Us Work Code NC-AC TAMPA E 999 Us Work Code NU-IN TAMPA E 999 Us	EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY Work D New Construct EXECUTIV Se: TAXIWAY	Branch: TW Rank: P Description ion - AC Branch: TW Rank: P Description ion - Initial Branch: TW Rank: P Description ion - Initial		TAXIV ength: 70 Cost 0.00 TAXIV ength: 100 Cost 0.00 TAXIV ength: 1,700 Cost 0.00	WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY F .00 (Ft) Wid Thickness (in) 0.00 WAY J .00 (Ft) Wid Thickness (in) 0.00	Section: dth: 50.0 Major M&R Section: dth: 40.0 Major M&R Section: dth: 35.0 Major M&R Section: dth: 35.0	0 (Ft) Initial 615 0 (Ft) 705 0 (Ft) 710	True Area: 4871.000001 (SqFt Comments Construction Surface:AC True Area: 4552.000001 (SqFt Comments Surface:AC True Area: 61282.00001 (SqFt Comments

# Work History Report

Page 6 of 7

Pavement Database: FDOT

Network: TAMPA EXECUTIV		Branch: TW J	TAXIV	WAY J	Section:	715	Surface:AC	
<b>L.C.D.</b> 1/1/1	999 Us	e: TAXIWAY	Rank: P L	ength: 232	.00 (Ft) Wi	dth: 35.0	0 (Ft) True Are	a: 12020.00000 (SqFt
Work Date	Work Code	Work E	Description	Cost	Thickness (in)	Major M&R	Co	mments
1/1/1999	NU-IN	New Construct	ion - Initial	0.00	0.00			

# Work History Report

Pavement Database: FDOT

#### Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	10	718,185.00	0.90	0.92
MILL and OVERLAY	1	12,031.00	0.00	0.00
New Construction - AC	6	284,844.00	1.25	0.56
New Construction - Initial	22	1,531,645.00	0.30	1.01
Overlay - AC Structural	4	254,979.00	3.00	0.00
Surface Treatment - Chip Seal	2	248,702.00	0.00	0.00

10/4/2019     Branch Condition Report     Page 1 of 2       Pavement Database: FDOT										
Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section True Area Width (Ft) (SqFt)		Use	Average PCI	Standard Deviation PCI	Weighted Average PCI		
AP E	1	190.00	190.00	37,084.00	APRON	69.00	0.00	69.00		
AP MAIN	1	688.00	545.00	424,105.00	APRON	68.00	0.00	68.00		
AP N	3	823.00	226.67	238,168.00	APRON	67.33	2.62	68.34		
AP RU 18	1	100.00	30.00	3,338.00	APRON	58.00	0.00	58.00		
AP RU 23	1	225.00	100.00	24,994.00	APRON	71.00	0.00	71.00		
AP RU 5	1	300.00	200.00	71,353.00	APRON	71.00	0.00	71.00		
AP S	3	937.00	200.00	197,801.00	APRON	69.33	4.11	67.74		
AP T-HANG	2	668.00	227.50	159,945.00	APRON	71.00	2.00	72.70		
RW 18-36	1	3,259.00	75.00	243,145.00	RUNWAY	68.00	0.00	68.00		
RW 5-23	1	5,000.00	100.00	500,000.00	RUNWAY	68.00	0.00	68.00		
TL J	1	1,164.00	22.00	28,314.00	TAXILANE	59.00	0.00	59.00		
TW A	5	3,575.00	34.00	129,270.00	TAXIWAY	65.40	3.72	63.32		
TW B	2	760.00	37.50	22,554.00	TAXIWAY	24.50	3.50	23.26		
TW C	1	600.00	35.00	21,767.00	TAXIWAY	70.00	0.00	70.00		
TW D	3	1,000.00	35.00	36,474.00	TAXIWAY	70.00	8.29	69.50		
TW E	1	4,156.00	35.00	145,723.00	TAXIWAY	72.00	0.00	72.00		
TW E1	1	233.00	35.00	9,543.00	TAXIWAY	74.00	0.00	74.00		
TW E2	1	233.00	35.00	9,511.00	TAXIWAY	70.00	0.00	70.00		
TW E3	1	233.00	35.00	9,876.00	TAXIWAY	71.00	0.00	71.00		
TW E4	1	233.00	35.00	8,961.00	TAXIWAY	72.00	0.00	72.00		
TW F	3	2,815.00	41.67	107,660.00	TAXIWAY	70.00	2.45	72.61		
TW J	3	2,762.00	35.00	105,088.00	TAXIWAY	64.33	0.47	64.58		

10/4/2019     Branch Condition Report     Page       Pavement Database: FDOT     Page									
Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI				
APRON	13	1,156,788.00	68.38	4.12	68.93				
RUNWAY	2	743,145.00	68.00	0.00	68.00				
TAXILANE	1	28,314.00	59.00	0.00	59.00				
TAXIWAY	22	606,427.00	64.45	13.50	66.92				
ALL	38	2,534,674.00	65.84	10.78	68.07				

Pavement Database: FDOT				NetworkId: VDF						
Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspec tion	PCI
AP E	4510	1/1/1999	AC	APRON	Р	0	37,084.00	1/9/2019	20	69
AP MAIN	4410	1/1/1999	AC	APRON	Т	0	424,105.00	1/9/2019	20	68
AP N	4205	1/1/1991	AC	APRON	Р	0	131,692.00	1/9/2019	28	71
AP N	4210	1/1/1986	AC	APRON	Р	0	100,788.00	1/9/2019	33	65
AP N	4215	1/1/1986	AC	APRON	Р	0	5,688.00	1/9/2019	33	66
AP RU 18	5305	1/1/1986	AC	APRON	Р	0	3,338.00	1/9/2019	33	58
AP RU 23	5105	1/1/1986	AC	APRON	Р	0	24,994.00	1/9/2019	33	71
AP RU 5	5205	1/1/1999	AC	APRON	Р	0	71,353.00	1/9/2019	20	71
AP S	4105	1/1/1986	AC	APRON	Р	0	77,746.00	1/9/2019	33	64
AP S	4110	1/1/1986	AC	APRON	Р	0	115,269.00	1/9/2019	33	70
AP S	4115	1/1/1986	AC	APRON	Р	0	4,786.00	1/9/2019	33	74
AP T-HANG	4310	1/1/1974	AC	APRON	Р	0	147,914.00	1/9/2019	45	73
AP T-HANG	4315	12/26/2009	AAC	APRON	Р	0	12,031.00	1/9/2019	10	69
RW 18-36	6105	1/2/1986	AAC	RUNWAY	Р	0	243,145.00	1/9/2019	33	68
RW 5-23	6205	1/1/1999	AC	RUNWAY	Р	0	500,000.00	1/9/2019	20	68
TL J	4505	1/1/1999	AC	TAXILANE	Р	0	28,314.00	1/9/2019	20	59
TW A	105	1/1/1986	AC	TAXIWAY	Р	0	114,664.00	1/9/2019	33	63
TW A	120	1/1/1986	AC	TAXIWAY	Р	0	2,772.00	1/9/2019	33	69
TW A	140	1/2/1986	AAC	TAXIWAY	Р	0	3,862.00	1/9/2019	33	65
TW A	160	1/2/1986	AAC	TAXIWAY	Р	0	3,861.00	1/9/2019	33	60
TW A	180	1/2/1986	AAC	TAXIWAY	Р	0	4,111.00	1/9/2019	33	70
TW B	210	1/1/1989	AC	TAXIWAY	Р	0	15,268.00	1/9/2019	30	21
TW B	250	1/1/1989	AC	TAXIWAY	Р	0	7,286.00	1/9/2019	30	28
TW C	405	1/1/2001	AC	TAXIWAY	S	0	21,767.00	1/9/2019	18	70
TW D	170	1/1/1986	AC	TAXIWAY	Р	0	5,063.00	1/9/2019	33	61
TW D	305	1/1/2001	AC	TAXIWAY	Т	0	24,475.00	1/9/2019	18	68
TW D	310	1/1/2001	AC	TAXIWAY	Т	0	6,936.00	1/9/2019	18	81
TW E	505	1/1/1999	AC	TAXIWAY	Р	0	145,723.00	1/9/2019	20	72
TW E1	510	1/1/1999	AC	TAXIWAY	Р	0	9,543.00	1/9/2019	20	74
TW E2	515	1/1/1999	AC	TAXIWAY	Р	0	9,511.00	1/9/2019	20	70
TW E3	520	1/1/1999	AC	TAXIWAY	Р	0	9,876.00	1/9/2019	20	71
TW E4	525	1/1/1999	AC	TAXIWAY	Р	0	8,961.00	1/9/2019	20	72
TW F	605	1/1/1999	AC	TAXIWAY	Р	0	98,237.00	1/9/2019	20	73
TW F	610	1/1/1999	AC	TAXIWAY	Р	0	4,871.00	1/9/2019	20	70
TW F	615	1/1/1999	AC	TAXIWAY	Р	0	4,552.00	1/9/2019	20	67
TW J	705	1/1/1999	AC	TAXIWAY	Р	0	61,282.00	1/9/2019	20	65
TW J	710	1/1/1999	AC	TAXIWAY	Р	0	31,786.00	1/9/2019	20	64
TW J	715	1/1/1999	AC	TAXIWAY	Р	0	12,020.00	1/9/2019	20	64

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
06-10	10	12,031.00	1	69.00	0.00	69.00
16-20	20	1,510,396.00	19	69.26	4.51	68.66
26-30	29	154,246.00	3	40.00	22.11	64.02
31-35	33	710,087.00	14	66.00	4.42	66.64
41-50	45	147,914.00	1	73.00	0.00	73.00
ALL	26	2,534,674.00	38	65.84	10.78	68.07

Pavement Database: FDOT



# Appendix B

## Airfield Pavement Localized Maintenance and Repair and Major Rehabilitation

Table B-1 Localized Maintenance an	d Repair Needs based	on Current Condition
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Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit	Cost	V	Vork Cost
VDF	AP E	4510	52	RAVELING	Low	36713.12	SqFt	99.0%	FDOT - SURFACE SEAL	36713.6	SqFt	\$	0.55	\$	20,200.00
VDF	AP E	4510	52	RAVELING	Medium	370.92	SqFt	1.0%	FDOT - PATCHING - AC PARTIAL DEPTH	371.4	SqFt	\$	4.00	\$	1,490.00
VDF	AP MAIN	4410	45	DEPRESSION	Low	2186.15	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	2378.8	SqFt	\$	9.00	\$	21,410.00
VDF	AP MAIN	4410	52	RAVELING	Low	175859.26	SqFt	41.5%	FDOT - SURFACE SEAL	175859.7	SqFt	\$	0.55	\$	96,730.00
VDF	AP MAIN	4410	57	WEATHERING	Medium	223743.81	SqFt	52.8%	FDOT - SURFACE SEAL	223744	SqFt	\$	0.55	\$	123,070.00
VDF	AP N	4205	52	RAVELING	Low	2466.98	SqFt	1.9%	FDOT - SURFACE SEAL	2467.1	SqFt	\$	0.55	\$	1,360.00
VDF	AP N	4205	57	WEATHERING	Medium	129224.94	SqFt	98.1%	FDOT - SURFACE SEAL	129225.1	SqFt	\$	0.55	\$	71,080.00
VDF	AP N	4210	45	DEPRESSION	Low	131.97	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	181.9	SqFt	\$	9.00	\$	1,640.00
VDF	AP N	4210	48	L&TCR	Medium	73.29	Ft	0.1%	FDOT - CRACK SEALING - AC	73.2	Ft	\$	3.00	\$	220.00
VDF	AP N	4210	52	RAVELING	Low	2931.98	SqFt	2.9%	FDOT - SURFACE SEAL	2932.1	SqFt	\$	0.55	\$	1,620.00
VDF	AP N	4215	52	RAVELING	Low	4216.98	SqFt	74.1%	FDOT - SURFACE SEAL	4217.3	SqFt	\$	0.55	\$	2,320.00
VDF	AP N	4215	57	WEATHERING	Medium	1471	SqFt	25.9%	FDOT - SURFACE SEAL	1471.4	SqFt	\$	0.55	\$	810.00
VDF	AP RU 18	5305	48	L&TCR	Medium	91.01	Ft	2.7%	FDOT - CRACK SEALING - AC	90.9	Ft	\$	3.00	\$	280.00
VDF	AP RU 18	5305	52	RAVELING	Low	834.96	SqFt	25.0%	FDOT - SURFACE SEAL	835.3	SqFt	\$	0.55	\$	460.00
VDF	AP RU 18	5305	57	WEATHERING	Medium	2503.04	SqFt	75.0%	FDOT - SURFACE SEAL	2502.6	SqFt	\$	0.55	\$	1,380.00
VDF	AP RU 23	5105	52	RAVELING	Low	499.88	SqFt	2.0%	FDOT - SURFACE SEAL	499.5	SqFt	\$	0.55	\$	280.00
VDF	AP RU 23	5105	57	WEATHERING	Medium	24494.14	SqFt	98.0%	FDOT - SURFACE SEAL	24494.4	SqFt	\$	0.55	\$	13,480.00
VDF	AP RU 5	5205	52	RAVELING	Low	961	SqFt	1.4%	FDOT - SURFACE SEAL	961.2	SqFt	\$	0.55	\$	530.00
VDF	AP RU 5	5205	57	WEATHERING	Medium	69396.11	SqFt	97.3%	FDOT - SURFACE SEAL	69396	SqFt	\$	0.55	\$	38,170.00
VDF	AP S	4105	45	DEPRESSION	Low	237.67	SqFt	0.3%	FDOT - PATCHING - AC FULL DEPTH	303.5	SqFt	\$	9.00	\$	2,740.00
VDF	AP S	4105	48	L&TCR	Medium	226.31	Ft	0.3%	FDOT - CRACK SEALING - AC	226.4	Ft	\$	3.00	\$	680.00
VDF	AP S	4105	57	WEATHERING	Medium	77746	SqFt	100.0%	FDOT - SURFACE SEAL	77745.6	SqFt	\$	0.55	\$	42,770.00
VDF	AP S	4110	45	DEPRESSION	Low	92.25	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	134.6	SqFt	\$	9.00	\$	1,220.00
VDF	AP S	4110	52	RAVELING	Low	38.43	SqFt	0.0%	FDOT - SURFACE SEAL	38.8	SqFt	\$	0.55	\$	30.00
VDF	AP S	4110	57	WEATHERING	Medium	115230.57	SqFt	100.0%	FDOT - SURFACE SEAL	115230.9	SqFt	\$	0.55	\$	63,380.00
VDF	AP S	4115	52	RAVELING	Low	2.05	SqFt	0.0%	FDOT - SURFACE SEAL	2.2	SqFt	\$	0.55	\$	10.00
VDF	AP S	4115	57	WEATHERING	Medium	4784.02	SqFt	100.0%	FDOT - SURFACE SEAL	4783.5	SqFt	\$	0.55	\$	2,640.00
VDF	AP T-HANG	4310	41	ALLIGATOR CR	Low	84.71	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	125.9	SqFt		9.00	\$	1,140.00
VDF	AP T-HANG	4310	45	DEPRESSION	Low	788.35	SqFt	0.5%	FDOT - PATCHING - AC FULL DEPTH	905.2	SqFt		9.00	\$	8,150.00
VDF	AP T-HANG	4315	52	RAVELING	Low	1801.45	SqFt	15.0%	FDOT - SURFACE SEAL	1801.9	SqFt		0.55	\$	1,000.00
VDF	RW 18-36	6105	48	L&TCR	Medium	84.78	Ft	0.0%	FDOT - CRACK SEALING - AC	84.7	Ft		3.00	\$	260.00
VDF	RW 18-36	6105	52	RAVELING	Low	59621.62	SqFt	24.5%	FDOT - SURFACE SEAL	59621.3	SqFt		0.55	\$	32,800.00
VDF	RW 18-36	6105	52	RAVELING	Medium	718.17	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	718	SqFt		4.00	\$	2,880.00
VDF	RW 18-36	6105	57	WEATHERING	Medium	182525.89	SqFt	75.1%	FDOT - SURFACE SEAL	182525.8	SqFt		0.55		100,400.00
VDF	RW 5-23	6205	48	L&TCR	Medium	689.99	Ft	0.1%	FDOT - CRACK SEALING - AC	690	Ft		3.00	\$	2,070.00
VDF	RW 5-23	6205	52	RAVELING	Low	197624.96	SqFt	39.5%	FDOT - SURFACE SEAL	197625.4	SqFt		0.55		108,700.00
VDF	RW 5-23	6205	52	RAVELING	Medium	1525.03	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	1525.3	SqFt	\$	4.00	\$	6,100.00

### Tampa Executive Airport (VDF)



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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
VDF	RW 5-23	6205	57	WEATHERING	Medium	271125.04	SqFt	54.2%	FDOT - SURFACE SEAL	271124.6	SqFt	\$	0.55	\$	149,120.00
VDF	TL J	4505	50	PATCHING	Medium	578.56	SqFt	2.0%	FDOT - PATCHING - AC FULL DEPTH	679.2	SqFt	\$	9.00	\$	6,120.00
VDF	TL J	4505	52	RAVELING	Low	27676.38	SqFt	97.8%	FDOT - SURFACE SEAL	27676.2	SqFt	\$	0.55	\$	15,230.00
VDF	TL J	4505	52	RAVELING	Medium	58.99	SqFt	0.2%	FDOT - PATCHING - AC PARTIAL DEPTH	59.2	SqFt	\$	4.00	\$	240.00
VDF	TW A	105	48	L&TCR	Medium	464.21	Ft	0.4%	FDOT - CRACK SEALING - AC	464.2	Ft	\$	3.00	\$	1,400.00
VDF	TW A	105	48	L&TCR	High	55.87	Ft	0.1%	FDOT - CRACK SEALING - AC	55.8	Ft	\$	3.00	\$	170.00
VDF	TW A	105	50	PATCHING	Medium	1482.94	SqFt	1.3%	FDOT - PATCHING - AC FULL DEPTH	1641.5	SqFt	\$	9.00	\$	14,780.00
VDF	TW A	105	52	RAVELING	Low	18684.43	SqFt	16.3%	FDOT - SURFACE SEAL	18684	SqFt	\$	0.55	\$	10,280.00
VDF	TW A	105	52	RAVELING	Medium	816.66	SqFt	0.7%	FDOT - PATCHING - AC PARTIAL DEPTH	817	SqFt	\$	4.00	\$	3,270.00
VDF	TW A	105	57	WEATHERING	Medium	71948.13	SqFt	62.8%	FDOT - SURFACE SEAL	71948.1	SqFt	\$	0.55	\$	39,580.00
VDF	TW A	120	52	RAVELING	Low	1499.95	SqFt	54.1%	FDOT - SURFACE SEAL	1500.5	SqFt	\$	0.55	\$	830.00
VDF	TW A	120	57	WEATHERING	Medium	1271.97	SqFt	45.9%	FDOT - SURFACE SEAL	1272.3	SqFt	\$	0.55	\$	700.00
VDF	TW A	140	48	L&TCR	Medium	2.99	Ft	0.1%	FDOT - CRACK SEALING - AC	3	Ft	\$	3.00	\$	10.00
VDF	TW A	140	52	RAVELING	Low	2000.04	SqFt	51.8%	FDOT - SURFACE SEAL	1999.9	SqFt	\$	0.55	\$	1,110.00
VDF	TW A	140	52	RAVELING	Medium	24.97	SqFt	0.7%	FDOT - PATCHING - AC PARTIAL DEPTH	24.8	SqFt	\$	4.00	\$	100.00
VDF	TW A	160	48	L&TCR	Medium	6	Ft	0.2%	FDOT - CRACK SEALING - AC	5.9	Ft	\$	3.00	\$	20.00
VDF	TW A	160	52	RAVELING	Low	2000.04	SqFt	51.8%	FDOT - SURFACE SEAL	1999.9	SqFt	\$	0.55	\$	1,110.00
VDF	TW A	160	52	RAVELING	Medium	199.99	SqFt	5.2%	FDOT - PATCHING - AC PARTIAL DEPTH	200.2	SqFt	\$	4.00	\$	800.00
VDF	TW A	180	52	RAVELING	Low	2000.04	SqFt	48.7%	FDOT - SURFACE SEAL	1999.9	SqFt	\$	0.55	\$	1,110.00
VDF	TW A	180	52	RAVELING	Medium	50.05	SqFt	1.2%	FDOT - PATCHING - AC PARTIAL DEPTH	49.5	SqFt	\$	4.00	\$	200.00
VDF	TW B	210	41	ALLIGATOR CR	Medium	315.81	SqFt	2.1%	FDOT - PATCHING - AC FULL DEPTH	391.8	SqFt	\$	9.00	\$	3,530.00
VDF	TW B	210	43	BLOCK CR	Medium	6463.19	SqFt	42.3%	FDOT - CRACK SEALING - AC	1970.1	Ft	\$	3.00	\$	5,910.00
VDF	TW B	210	45	DEPRESSION	Low	336.05	SqFt	2.2%	FDOT - PATCHING - AC FULL DEPTH	414.4	SqFt	\$	9.00	\$	3,730.00
VDF	TW B	210	52	RAVELING	Medium	15260.64	SqFt	100.0%	FDOT - PATCHING - AC PARTIAL DEPTH	15261.1	SqFt	\$	4.00	\$	61,050.00
VDF	TW B	210	52	RAVELING	High	7.43	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	7.5	SqFt	\$	4.00	\$	30.00
VDF	TW B	250	45	DEPRESSION	Low	85.03	SqFt	1.2%	FDOT - PATCHING - AC FULL DEPTH	125.9	SqFt	\$	9.00	\$	1,140.00
VDF	TW B	250	48	L&TCR	Medium	95.11	Ft	1.3%	FDOT - CRACK SEALING - AC	95.1	Ft	\$	3.00	\$	290.00
VDF	TW B	250	52	RAVELING	Medium	7285.98	SqFt	100.0%	FDOT - PATCHING - AC PARTIAL DEPTH	7286.1	SqFt	\$	4.00	\$	29,150.00
VDF	TW C	405	52	RAVELING	Low	10883.5	SqFt	50.0%	FDOT - SURFACE SEAL	10883.4	SqFt	\$	0.55	\$	5,990.00
VDF	TW C	405	57	WEATHERING	Medium	10883.5	SqFt	50.0%	FDOT - SURFACE SEAL	10883.4	SqFt	\$	0.55	\$	5,990.00
VDF	TW D	170	48	L&TCR	Medium	2	Ft	0.0%	FDOT - CRACK SEALING - AC	2	Ft	\$	3.00	\$	10.00
VDF	TW D	170	52	RAVELING	Low	2600.02	SqFt	51.4%	FDOT - SURFACE SEAL	2599.5	SqFt	\$	0.55	\$	1,440.00
VDF	TW D	170	57	WEATHERING	Medium	2234.05	SqFt	44.1%	FDOT - SURFACE SEAL	2233.5	SqFt	\$	0.55	\$	1,230.00
VDF	TW D	305	52	RAVELING	Low	14825.13	SqFt	60.6%	FDOT - SURFACE SEAL	14825.1	SqFt	\$	0.55	\$	8,160.00
VDF	TW D	305	57	WEATHERING	Medium	9649.85	SqFt	39.4%	FDOT - SURFACE SEAL	9649.9	SqFt	\$	0.55	\$	5,310.00
VDF	TW D	310	52	RAVELING	Low	69.64	SqFt	1.0%	FDOT - SURFACE SEAL	70	SqFt	\$	0.55	\$	40.00
VDF	TW E	505	48	L&TCR	Medium	183.2	Ft	0.1%	FDOT - CRACK SEALING - AC	183.1	Ft	\$	3.00	\$	550.00
VDF	TW E	505	52	RAVELING	Low	582.87	SqFt	0.4%	FDOT - SURFACE SEAL	583.4	SqFt	\$	0.55	\$	330.00
VDF	TW E	505	57	WEATHERING	Medium	145140.14	SqFt	99.6%	FDOT - SURFACE SEAL	145140.6	SqFt	\$	0.55	\$	79,830.00

### Tampa Executive Airport (VDF)



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### Statewide Airfield Pavement<br/>Management ProgramAirport Pavement<br/>Evaluation Report

Network ID	Branch ID	Section ID	Distress Code	Description	Severity	Distress Qty	Distress Unit	Percent Distress	Work Description	Work Qty	Work Unit	Unit	t Cost	W	/ork Cost
VDF	TW E1	510	52	RAVELING	Low	95.05	SqFt	1.0%	FDOT - SURFACE SEAL	94.7	SqFt	\$	0.55	\$	60.00
VDF	TW E1	510	57	WEATHERING	Medium	7455.51	SqFt	78.1%	FDOT - SURFACE SEAL	7455.1	SqFt	\$	0.55	\$	4,110.00
VDF	TW E2	515	45	DEPRESSION	Low	7.1	SqFt	0.1%	FDOT - PATCHING - AC FULL DEPTH	21.5	SqFt	\$	9.00	\$	200.00
VDF	TW E2	515	52	RAVELING	Low	475.23	SqFt	5.0%	FDOT - SURFACE SEAL	474.7	SqFt	\$	0.55	\$	270.00
VDF	TW E2	515	57	WEATHERING	Medium	9035.76	SqFt	95.0%	FDOT - SURFACE SEAL	9036.3	SqFt	\$	0.55	\$	4,970.00
VDF	TW E3	520	52	RAVELING	Low	493.31	SqFt	5.0%	FDOT - SURFACE SEAL	493	SqFt	\$	0.55	\$	280.00
VDF	TW E3	520	57	WEATHERING	Medium	9382.69	SqFt	95.0%	FDOT - SURFACE SEAL	9382.9	SqFt	\$	0.55	\$	5,170.00
VDF	TW E4	525	52	RAVELING	Low	448.75	SqFt	5.0%	FDOT - SURFACE SEAL	448.9	SqFt	\$	0.55	\$	250.00
VDF	TW E4	525	57	WEATHERING	Medium	8512.21	SqFt	95.0%	FDOT - SURFACE SEAL	8512.1	SqFt	\$	0.55	\$	4,690.00
VDF	TW F	605	48	L&TCR	Medium	140.35	Ft	0.1%	FDOT - CRACK SEALING - AC	140.4	Ft	\$	3.00	\$	430.00
VDF	TW F	605	57	WEATHERING	Medium	98237.04	SqFt	100.0%	FDOT - SURFACE SEAL	98236.8	SqFt	\$	0.55	\$	54,040.00
VDF	TW F	610	52	RAVELING	Low	124.97	SqFt	2.6%	FDOT - SURFACE SEAL	124.9	SqFt	\$	0.55	\$	70.00
VDF	TW F	610	57	WEATHERING	Medium	4746.02	SqFt	97.4%	FDOT - SURFACE SEAL	4745.8	SqFt	\$	0.55	\$	2,620.00
VDF	TW F	615	50	PATCHING	Medium	107.96	SqFt	2.4%	FDOT - PATCHING - AC FULL DEPTH	153.9	SqFt	\$	9.00	\$	1,390.00
VDF	TW F	615	52	RAVELING	Low	299.99	SqFt	6.6%	FDOT - SURFACE SEAL	300.3	SqFt	\$	0.55	\$	170.00
VDF	TW F	615	57	WEATHERING	Medium	4144	SqFt	91.0%	FDOT - SURFACE SEAL	4144.1	SqFt	\$	0.55	\$	2,280.00
VDF	TW J	705	48	L&TCR	Medium	75.89	Ft	0.1%	FDOT - CRACK SEALING - AC	75.8	Ft	\$	3.00	\$	230.00
VDF	TW J	705	50	PATCHING	Medium	105.06	SqFt	0.2%	FDOT - PATCHING - AC FULL DEPTH	150.7	SqFt	\$	9.00	\$	1,360.00
VDF	TW J	705	52	RAVELING	Low	40854.64	SqFt	66.7%	FDOT - SURFACE SEAL	40854.4	SqFt	\$	0.55	\$	22,480.00
VDF	TW J	705	52	RAVELING	Medium	204.3	SqFt	0.3%	FDOT - PATCHING - AC PARTIAL DEPTH	204.5	SqFt	\$	4.00	\$	820.00
VDF	TW J	705	57	WEATHERING	Medium	20117.96	SqFt	32.8%	FDOT - SURFACE SEAL	20117.8	SqFt	\$	0.55	\$	11,070.00
VDF	TW J	710	52	RAVELING	Low	31740.62	SqFt	99.9%	FDOT - SURFACE SEAL	31740.6	SqFt	\$	0.55	\$	17,460.00
VDF	TW J	710	52	RAVELING	Medium	45.42	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	45.2	SqFt	\$	4.00	\$	190.00
VDF	TW J	715	52	RAVELING	Low	12002.84	SqFt	99.9%	FDOT - SURFACE SEAL	12002.8	SqFt	\$	0.55	\$	6,610.00
VDF	TW J	715	52	RAVELING	Medium	17.22	SqFt	0.1%	FDOT - PATCHING - AC PARTIAL DEPTH	17.2	SqFt	\$	4.00	\$	70.00

### Tampa Executive Airport (VDF)



12X

2019

VDF

2024

TW C

405

AC

21,767

63

AC Restoration

\$

207,000.00



Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2020	VDF	AP N	4210	AC	100,788	63	AC Restoration	\$ 958,000.00
2020	VDF	AP N	4215	AC	5,688	64	AC Restoration	\$ 55,000.00
2020	VDF	AP RU 18	5305	AC	3,338	57	AC Restoration	\$ 32,000.00
2020	VDF	AP S	4105	AC	77,746	62	AC Restoration	\$ 739,000.00
2020	VDF	TL J	4505	AC	28,314	57	AC Restoration	\$ 269,000.00
2020	VDF	TW A	105	AC	114,664	61	AC Restoration	\$ 1,090,000.00
2020	VDF	TW A	140	AAC	3,862	64	AC Restoration	\$ 37,000.00
2020	VDF	TW A	160	AAC	3,861	59	AC Restoration	\$ 37,000.00
2020	VDF	TW B	210	AC	15,268	20	AC Reconstruction	\$ 191,000.00
2020	VDF	TW B	250	AC	7,286	27	AC Reconstruction	\$ 92,000.00
2020	VDF	TW D	170	AC	5,063	59	AC Restoration	\$ 49,000.00
2020	VDF	TW J	705	AC	61,282	63	AC Restoration	\$ 583,000.00
2020	VDF	TW J	710	AC	31,786	62	AC Restoration	\$ 302,000.00
2020	VDF	TW J	715	AC	12,020	62	AC Restoration	\$ 115,000.00
2021	VDF	AP T-HANG	4315	AAC	12,031	64	AC Restoration	\$ 115,000.00
2021	VDF	TW F	615	AC	4,552	64	AC Restoration	\$ 44,000.00
2022	VDF	AP E	4510	AC	37,084	64	AC Restoration	\$ 353,000.00
2022	VDF	AP MAIN	4410	AC	424,105	64	AC Restoration	\$ 4,030,000.00
2022	VDF	TW D	305	AC	24,475	64	AC Restoration	\$ 233,000.00
2023	VDF	AP S	4110	AC	115,269	64	AC Restoration	\$ 1,096,000.00
2023	VDF	RW 18-36	6105	AAC	243,145	64	AC Restoration	\$ 2,310,000.00
2023	VDF	TW A	120	AC	2,772	64	AC Restoration	\$ 27,000.00
2024	VDF	AP N	4205	AC	131,692	64	AC Restoration	\$ 1,252,000.00
2024	VDF	AP RU 23	5105	AC	24,994	64	AC Restoration	\$ 238,000.00
2024	VDF	AP RU 5	5205	AC	71,353	64	AC Restoration	\$ 678,000.00

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

### Statewide Airfield Pavement<br/>Management ProgramAirport Pavement<br/>Evaluation Report

n Report 2019



Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost
2024	VDF	TW E2	515	AC	9,511	63	AC Restoration	\$ 91,000.00
2024	VDF	TW E3	520	AC	9,876	64	AC Restoration	\$ 94,000.00
2024	VDF	TW F	610	AC	4,871	63	AC Restoration	\$ 47,000.00
2025	VDF	AP T-HANG	4310	AC	147,914	64	AC Restoration	\$ 1,406,000.00
2025	VDF	RW 5-23	6205	AC	500,000	64	AC Restoration	\$ 4,751,000.00
2025	VDF	TW A	180	AAC	4,111	64	AC Restoration	\$ 40,000.00
2025	VDF	TW E	505	AC	145,723	64	AC Restoration	\$ 1,385,000.00
2025	VDF	TW E4	525	AC	8,961	64	AC Restoration	\$ 86,000.00
2026	VDF	AP S	4115	AC	4,786	63	AC Restoration	\$ 46,000.00
2026	VDF	TW F	605	AC	98,237	64	AC Restoration	\$ 934,000.00
2027	VDF	TW E1	510	AC	9,543	63	AC Restoration	\$ 91,000.00



FDOT

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# Appendix C

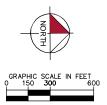
## Technical Exhibits





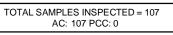
**Statewide Airfield Pavement Management Program** TAMPA EXECUTIVE AIRPORT - VDF

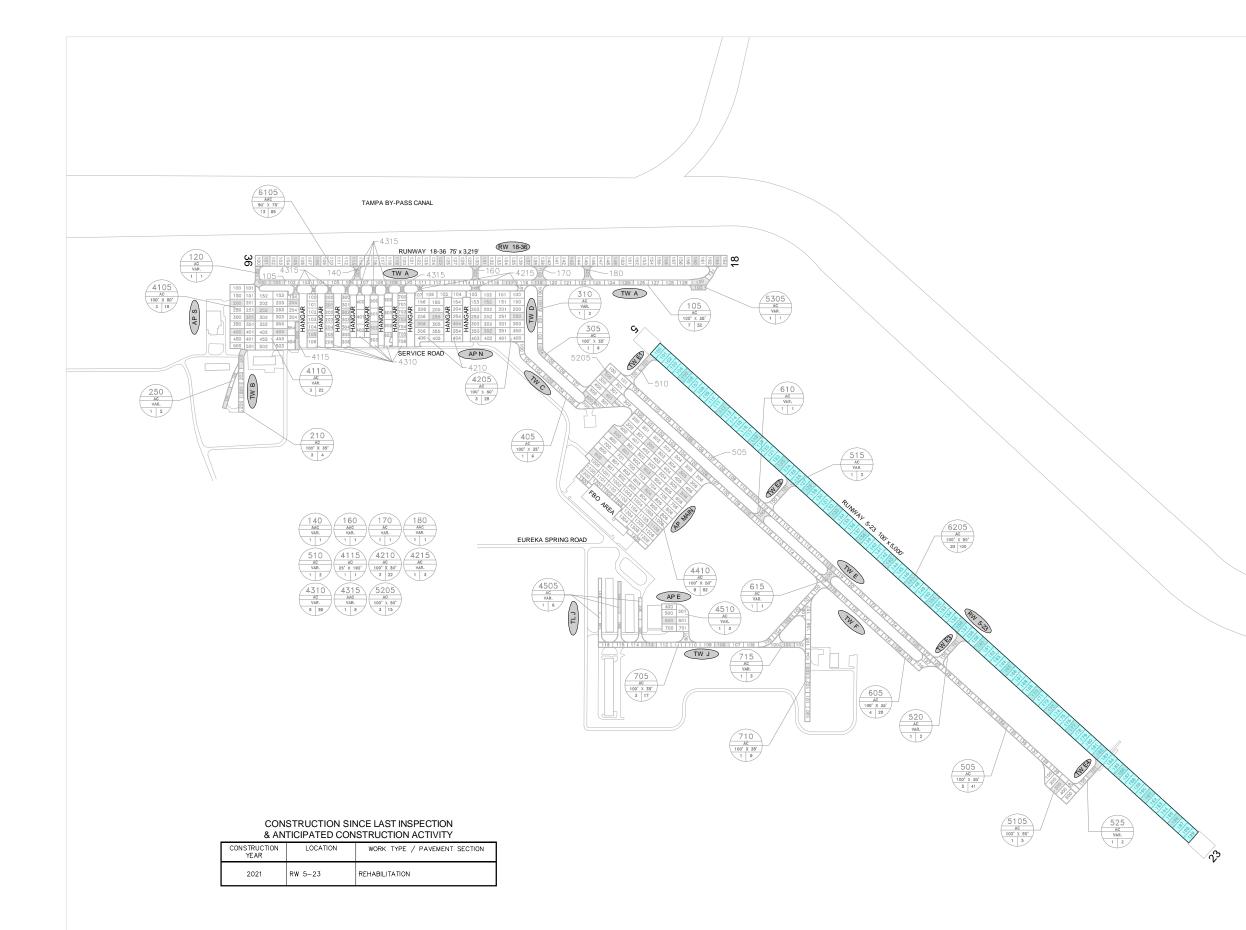
FDOT



#### <u>LEGEND</u>

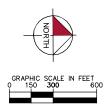








FDOT



### **LEGEND**

PROJECTS	YEAR	2013
PROJECTS	YEAR	2014
PROJECTS	YEAR	2015
PROJECTS	YEAR	2016
PROJECTS	YEAR	2017
PROJECTS	YEAR	2018
PROJECTS	YEAR	2019
PROJECTS	YEAR	2020
PROJECTS	YEAR	2021
PROJECTS	YEAR	2022



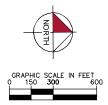


# 003 - AIRFIELD PAVEMENT CONDITION INDEX EXHIBIT

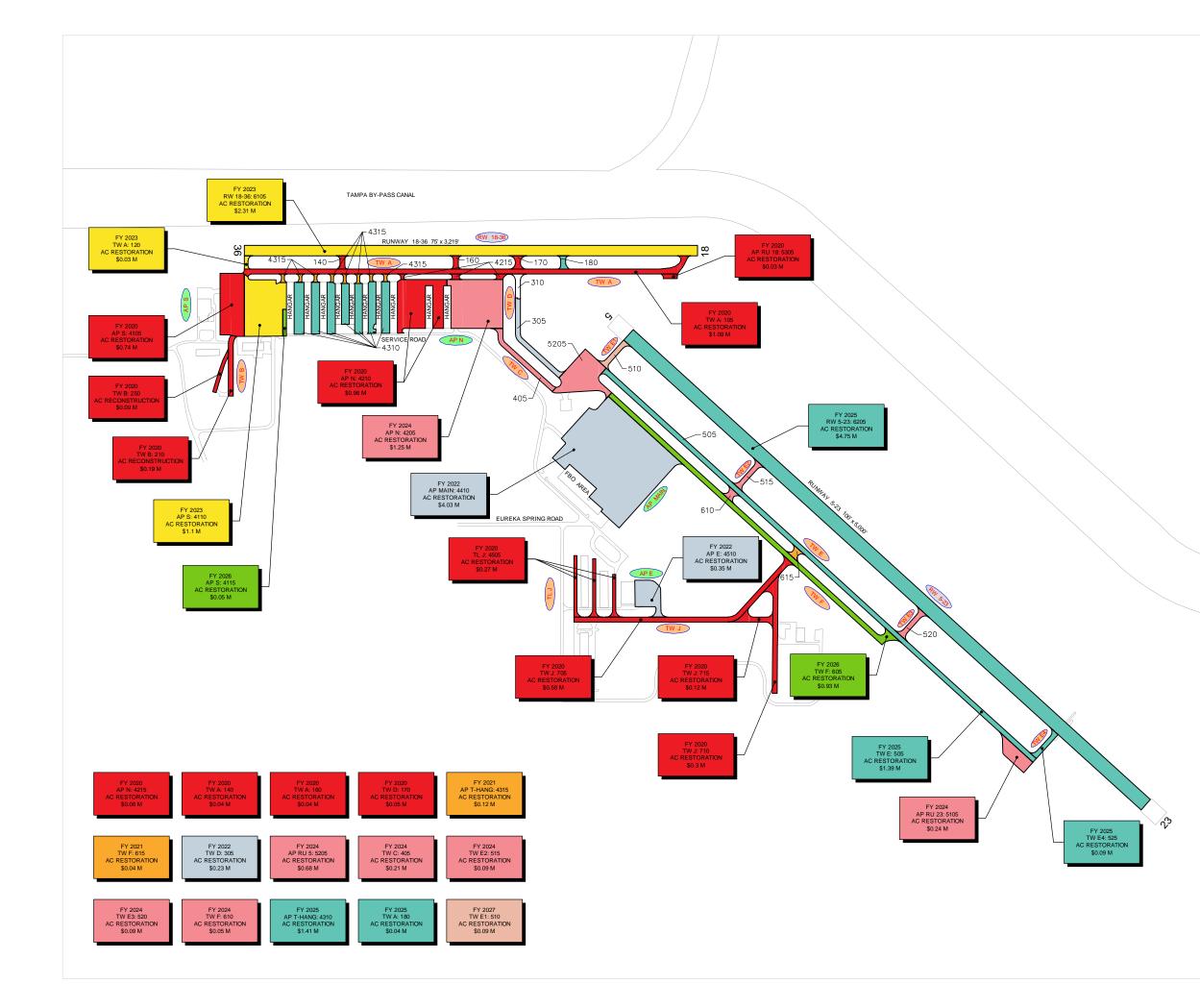




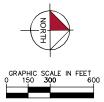
FDOT



### LEGEND RW 1331 TYPICAL RUNWAY BRANCH ID TW A TYPICAL TAXIWAY BRANCH ID AP S TYPICAL APRON BRANCH ID PCI 86–100 GOOD PCI 71–85 SATISFACTORY PCI 56–70 FAIR PCI 41–55 POOR PCI 26–40 VERY POOR PCI 11–25 SERIOUS PCI 0–10 FAILED SECTION NO."







### LEGEND

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

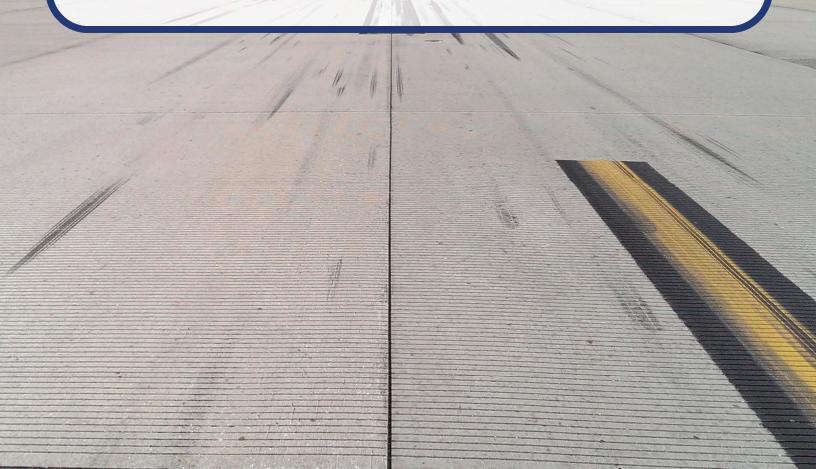
# PROGRAM YEAR 2020 2025 2021 2026 2022 2027 2023 2028 2024 2029





# Appendix D

## **Inspection Photograph Documentation**



tion Report 2019

Tampa Executive Airport (VDF)





RW 5-23, Section 6205, Sample Unit 138 - Low Severity (48) Longitudinal & Transverse Cracking, Medium Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Medium Severity (57) Weathering



RW 5-23, Section 6205, Sample Unit 196 - Medium Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Medium Severity (57) Weathering

2019

Tampa Executive Airport (VDF)





RW 18-36, Section 6105, Sample Unit 119 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Medium Severity (57) Weathering



RW 18-36, Section 6105, Sample Unit 131 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Medium Severity (57) Weathering

Statewide Airfield Pavement Airpor Management Program Evalua

Airport Pavement Evaluation Report 2019

Tampa Executive Airport (VDF)





TW A, Section 105, Sample Unit 130 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (50) Patching, Medium Severity (50) Patching, Low Severity (52) Raveling, Medium Severity (52) Raveling, and Low Severity (56) Swelling



TW E, Section 505, Sample Unit 134 - Medium Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Medium Severity (57) Weathering





AP MAIN, Section 4410, Sample Unit 900 - Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (52) Raveling, and Medium Severity (57) Weathering



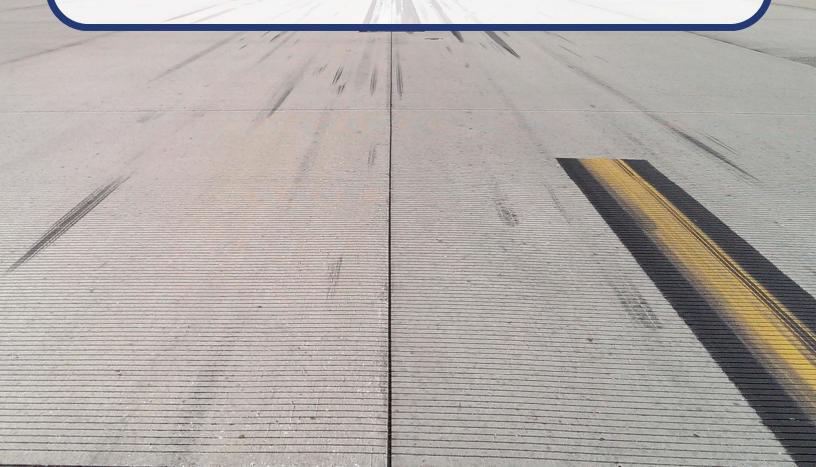
AP S, Section 4105, Sample Unit 200 - Low Severity (43) Block Cracking, Low Severity (45) Depression, Low Severity (48) Longitudinal & Transverse Cracking, Low Severity (56) Swelling, and Medium Severity (57) Weathering

Appendix D D-4



# Appendix E

## **Inspection Distress Details**



#### **Re-Inspection Report**

FDOT						
Generated Date	10/4/2019					Page 1 of 43
Network: VDF		Name:	TAMPA EXECU	TIVE AIRPORT		
Branch: AP E	Name:	EAST APRON	Use:	APRON	Area:	37,084 SqFt
Section: 4510	of 1 F	rom: -		То: -		Last Const.: 1/1/1999
Surface: AC	Family: C9N59-RL-AP-	AC Zone:		Category:		Rank: P
Area: 37	7,084 SqFt Length:	190 Ft	Width:	190 Ft		
Slabs:	Slab Length:	Ft Slab	Width:	Ft	Joint Length	: Ft
Shoulder:	Street Type:	Grad	<b>e:</b> 0		Lanes: 0	
Section Comments:						
Work Date: 1/1/1999	Work Type: New C	Construction - Initial	Co	de: NU-IN	Is Major	M&R: True
Last Insp. Date: 1/9/20	19 TotalSa	mples: 8	Surveyee	<b>l:</b> 1		
Conditions: PCI: 6 Inspection Comments:	9					
Sample Number: 600	Type: R	Area:	4999.00 SqFt	<b>PCI:</b> 69		
Sample Comments:						
52 RAVELING	М	50.00 SqFt				
52 RAVELING	L	4949.00 SqFt				

Netwo	ork: VDF					Namo	e: TAN	MPA EXECU	JTIVE AIRPORT				
Branc	ch: AP MAIN		N	ame:	MAI	N APRON	1	Use:	APRON	Are	ea: 42	24,105 SqFt	
Sectio	on: 4410	of 1	1	j	From:	-			To: -			Last Const.:	1/1/1999
Surfa	ce: AC	Family: C	9N59	9-RL-AF	P-AC	Zone	:		Category:			Rank: T	
Area:	424,10	05 SqFt	I	Length:		688 Ft		Width:	545 Ft				
Slabs	:	Slab Length	1:		Ft		Slab Width:		Ft		Joint Length:	F	t
Shoul	der:	Street Type:	:				Grade: 0				Lanes: 0		
Sectio	on Comments:												
Work	<b>a Date:</b> 1/1/1999	Work	. Тур	e: New	Constructi	ion - Initia	al	C	ode: NU-IN		Is Major N	1&R: True	
Last 1	Insp. Date: 1/9/2019			TotalS	amples:	82		Surveye	e <b>d:</b> 9				
Cond	itions: PCI: 68												
Inspe	ction Comments:												
Samp	le Number: 1106	Туре:		R		Area:	5000	0.00 SqFt	PCI:	72			
Samp	le Comments:												
48	L & T CR		L		143.00								
52 57	RAVELING		L M		1300.00								
57 Samn	WEATHERING	Туре:		R	3700.00	Area:	5000	0.00 SqFt	PCI:	65			
-	le Comments:	турс.		К	1	Area.	5000	).00 Sqr1	101.	03			
-			÷										
45 57	DEPRESSION WEATHERING		L M			) SqFt ) SqFt							
52	RAVELING		L		4600.00								
Samp	le Number: 305	Туре:		R		Area:	5000	0.00 SqFt	PCI:	73			
Samp	le Comments:												
57	WEATHERING		L		1500.00	) SqFt							
52	RAVELING		L		3500.00								
Samp	le Number: 500	Туре:		R		Area:	6750	0.00 SqFt	PCI:	70			
Samp	le Comments:												
52	RAVELING		L			) SqFt							
48 57	L & T CR		L M		161.00								
57 Samn	WEATHERING	Туре:		R	6450.00	Area:	5000	0.00 SqFt	PCI:	65			
-	le Comments:	rype.		К	1	Alta.	2000	1.00 Sqrt	1.01.	05			
-			÷		54.00	_							
48 52	L & T CR RAVELING		L L		64.00 150.00	) Ft ) SqFt							
32 45	DEPRESSION		L			) SqFt							
57	WEATHERING		М		4850.00								
Samp	le Number: 601	Туре:		R		Area:	5000	0.00 SqFt	PCI:	69			
Samp	le Comments:												
48	L & T CR		L		72.00								
52	RAVELING		L		5000.00								
-	le Number: 603	Туре:		R	1	Area:	5000	0.00 SqFt	PCI:	70			
Samp	le Comments:												
52	RAVELING		L		5000.00								
48	L & T CR		L		27.00		5000	000 C E4		70			
-	le Number: 804	Туре:		R	1	Area:	3000	0.00 SqFt	PCI:	/0			
-	le Comments:												
48	L & T CR		L M		46.00								
57 52	WEATHERING RAVELING		M L		4800.00 200.00	) SqFt ) SqFt							
	le Number: 900	Туре:		R		Area:	6750	0.00 SqFt	PCI:	62			
-	le Comments:							•					

57	WEATHERING	М	5387.00 SqFt
50	PATCHING	L	1302.00 SqFt
48	L & T CR	L	198.00 Ft
52	RAVELING	L	61.00 SqFt
45	DEPRESSION	L	108.00 SqFt

Network: VDF			Nan	ne: TAM	IPA EXECU	TIVE AIRPORT			
Branch: AP N		Name:	NORTH APR	ON "B"	Use:	APRON	Area:	238,168 SqFt	
Section: 4205	of 3		From: -			То: -		Last Const.:	1/1/1991
Surface: AC	Family: C91	N59-RL-A	P-AC Zon	e:		Category:		Rank: P	
Area: 131	1,692 SqFt	Length:	373 I	ł	Width:	350 Ft			
Slabs:	Slab Length:		Ft	Slab Width:		Ft	Joint	Length: Ft	
Shoulder:	Street Type:			Grade: 0			Lanes	s: 0	
Section Comments:									
Work Date: 1/1/1991	Work T	ype: BUI	ILT		С	ode: IMPORTED	Is	Major M&R: True	
Last Insp. Date: 1/9/20	)19	Total	Samples: 28		Surveye	<b>d:</b> 3			
Conditions: PCI: 7	71								
Inspection Comments:									
Sample Number: 152	Туре:	R	Area:	5000	.00 SqFt	<b>PCI:</b> 7	3		
Sample Comments:									
48 L & T CR	]	L	111.00 Ft						
57 WEATHERING		М	5000.00 SqFt						
56 SWELLING		Ĺ	20.00 SqFt						
Sample Number: 250	Туре:	R	Area:	5000	.00 SqFt	<b>PCI:</b> 7	1		
Sample Comments:									
52 RAVELING	]	L	31.00 SqFt						
48 L & T CR	1	Ĺ	168.00 Ft						
56 SWELLING		Ĺ	32.00 SqFt						
57 WEATHERING	]	М	4969.00 SqFt						
Sample Number: 352	Туре:	R	Area:	5000	.00 SqFt	<b>PCI:</b> 6	8		
Sample Comments:									
57 WEATHERING	]	М	4750.00 SqFt						
56 SWELLING	1	Ĺ	20.00 SqFt						
48 L & T CR	]	L	175.00 Ft						
52 RAVELING	1	Ĺ	250.00 SqFt						

Network: VDF			Name:	TAMPA EXECU	JTIVE AIRPORT		
Branch: AP N		Name:	NORTH APRON "B"	Use:	APRON	Area:	238,168 SqFt
Section: 4210	of 3	I	From: -		То: -		Last Const.: 1/1/1986
Surface: AC	Family: C9	N59-RL-AP	P-AC Zone:		Category:		Rank: P
Area: 100,7	'88 SqFt	Length:	350 Ft	Width:	275 Ft		
Slabs:	Slab Length:		Ft Slab W	idth:	Ft	Joint L	ength: Ft
Shoulder:	Street Type:		Grade	: 0		Lanes:	0
Section Comments:							
Work Date: 1/1/1986	Work	Гуре: BUII	LT	(	ode: IMPORTED	Is I	Major M&R: True
Work Date: 1/1/2014	Work	<b>Гуре:</b> Surfa	ce Treatment - Chip Seal	(	ode: ST-Chip SL	Is I	Major M&R: False
Last Insp. Date: 1/9/2019	)	TotalS	amples: 22	Survey	ed: 3		
Conditions: PCI: 65							
Inspection Comments:							
Sample Number: 255	Туре:	R	Area:	5000.00 SqFt	<b>PCI:</b> 67		
Sample Comments:							
45 DEPRESSION		L	18.00 SqFt				
50 PATCHING		L	15.00 SqFt				
48 L & T CR		L	510.00 Ft				
57 WEATHERING		L	4985.00 SqFt				
Sample Number: 304	Туре:	R	Area:	3750.00 SqFt	<b>PCI:</b> 64		
Sample Comments:							
57 WEATHERING		L	3350.00 SqFt				
48 L & T CR		М	10.00 Ft				
48 L & T CR		L	315.00 Ft				
52 RAVELING		L	400.00 SqFt				
Sample Number: 306	Туре:	R	Area:	5000.00 SqFt	<b>PCI:</b> 63		
Sample Comments:							
		L	1300.00 SqFt				
43 BLOCK CR							
<ul><li>43 BLOCK CR</li><li>57 WEATHERING</li></ul>		L	4950.00 SqFt				
		L L	4950.00 SqFt 232.00 Ft				

Network:	VDF			Name:	TAMPA EXECU	UTIVE AIRPORT		
Branch:	AP N		Name:	NORTH APRON	'B" Use:	APRON	Area:	238,168 SqFt
Section:	4215	0	f 3 Fi	rom: -		To: -		Last Const.: 1/1/1986
Surface:	AC	Family:	C9N59-RL-AP-	AC Zone:		Category:		Rank: P
Area:		5,688 SqFt	Length:	100 Ft	Width:	55 Ft		
Slabs:		Slab Len	igth:	Ft Sla	b Width:	Ft	Joint Leng	g <b>th:</b> Ft
Shoulder:		Street Ty	ype:	Gra	ade: 0		Lanes:	0
Section Co	omments:							
Work Dat	e: 1/1/1986	W	ork Type: New C	Construction - Initial	C	Code: NU-IN	Is Ma	jor M&R: True
Last Insp.	<b>Date:</b> 1/9/2	2019	TotalSa	mples: 3	Survey	ed: 1		
Condition	s: PCI:	66						
Inspection	Comments:							
Sample Nu	umber: 100	) <b>Ty</b>	e: R	Area:	2293.00 SqFt	<b>PCI:</b> 6	6	
Sample Co	omments:							
57 WE	EATHERING	Ì	М	593.00 SqFt				
	VELING		L	1700.00 SqFt				
48 L &	k T CR		L	186.00 Ft				

Network: VDI	7		Name:	TAMPA EXECU	JTIVE AIRPORT		
Branch: AP	RU 18	Name:	RUN-UP APRON	V 18 Use:	APRON	Area:	3,338 SqFt
Section: 5305		of 1 I	From: -		То: -		Last Const.: 1/1/1986
Surface: AC	Family:	C9N59-RL-AP	-AC Zone:		Category:		Rank: P
Area:	3,338 SqFt	Length:	100 Ft	Width:	30 Ft		
Slabs:	Slab Le	ength:	Ft SI	ab Width:	Ft	Joint Length:	Ft
Shoulder:	Street 7	Гуре:	G	rade: 0		Lanes: 0	
Section Comments	:						
Work Date: 1/1/1	986 <b>V</b>	Vork Type: New	Construction - Initial	С	ode: NU-IN	Is Major 1	M&R: True
Last Insp. Date:	1/9/2019	TotalS	amples: 1	Surveye	e <b>d:</b> 1		
Conditions: PC	I: 58						
Inspection Commo	ents:						
Sample Number:	100 Ty	pe: R	Area:	3338.00 SqFt	<b>PCI:</b> 5	8	
Sample Comments	s:						
48 L&TCR		М	91.00 Ft				
43 BLOCK CF	l	L	150.00 SqFt				
52 RAVELING	ĩ	L	835.00 SqFt				
57 WEATHER	ING	М	2503.00 SqFt				
57 WEATHER			· · · · · 1				

Network:	VDF			Nam	e: TA	MPA EXECU	TIVE AIRPORT		
Branch:	AP RU 23		Name:	RUN-UP APR	ON 23	Use:	APRON	Area:	24,994 SqFt
Section:	5105	of	1 From	m: -			То: -		Last Const.: 1/1/1986
Surface:	AC	Family:	C9N59-RL-AP-AG	C Zone	:		Category:		Rank: P
Area:	24,99	94 SqFt	Length:	225 Ft		Width:	100 Ft		
Slabs:		Slab Lengt	th:	Ft	Slab Width:		Ft	Joint Leng	th: Ft
Shoulder:		Street Typ	e:		Grade: 0			Lanes:	0
Section Co	mments:								
Work Date	e: 1/1/1986	Wor	k Type: New Cor	nstruction - AC		C	ode: NC-AC	Is Maj	or M&R: True
Last Insp.	Date: 1/9/2019		TotalSam	ples: 5		Surveye	<b>d:</b> 1		
Conditions	<b>PCI:</b> 71								
Inspection	Comments:								
Sample Nu	mber: 300	Туре	: R	Area:	500	0.00 SqFt	<b>PCI:</b> 71	l	
Sample Co	omments:								
52 RAY	VELING		L	100.00 SqFt					
	z T CR		L	78.00 Ft					
57 WE	ATHERING		M 4	900.00 SqFt					

Network: VDF		Name:	TAMPA EXECU	TIVE AIRPORT		
Branch: AP RU 5	Name:	RUN-UP APRON 0	5 Use:	APRON A	Area:	71,353 SqFt
Section: 5205	of 1	From: -		То: -		Last Const.: 1/1/1999
Surface: AC	Family: C9N59-RL-	AP-AC Zone:		Category:		Rank: P
Area: 71,353	B SqFt Length	<b>:</b> 300 Ft	Width:	200 Ft		
Slabs:	Slab Length:	Ft Slab	Width:	Ft	Joint Length:	Ft
Shoulder:	Street Type:	Grad	le: 0		Lanes: 0	
Section Comments:						
Work Date: 1/1/1999	Work Type: Ne	w Construction - Initial	Co	de: NU-IN	Is Major I	M&R: True
Last Insp. Date: 1/9/2019	Tota	ISamples: 15	Surveyed	<b>l:</b> 3		
Conditions: PCI: 71						
Inspection Comments:						
Sample Number: 200	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 70		
Sample Comments:						
57 WEATHERING	М	4800.00 SqFt				
48 L & T CR	L	62.00 Ft				
50 PATCHING	L	200.00 SqFt				
Sample Number: 401	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 70		
Sample Comments:						
52 RAVELING	L	150.00 SqFt				
57 WEATHERING	М	4850.00 SqFt				
48 L & T CR	L	72.00 Ft				
Sample Number: 600	Type: R	Area:	4330.00 SqFt	<b>PCI:</b> 72		
Sample Comments:						
48 L & T CR	L	93.00 Ft				
52 RAVELING	L	43.00 SqFt				
57 WEATHERING	М	4287.00 SqFt				

Network	K: VDF				Name:	TAMPA EXECU	JTIVE AIRPORT			
Branch:	AP S		Name:	SOUTH A	APRON "A"	Use:	APRON	Area:	197,801 SqFt	
Section:	4105	of 3		From: -			То: -		Last Const.	: 1/1/1986
Surface	AC AC	Family: C91	N59-RL-A	P-AC	Zone:		Category:		Rank: P	
Area:	77,74	46 SqFt	Length:	4	45 Ft	Width:	175 Ft			
Slabs:		Slab Length:		Ft	Slab Wi	dth:	Ft	Joint	Length:	Ft
Shoulde	r:	Street Type:			Grade:	0		Lanes	: 0	
Section	Comments:									
Work D	ate: 1/1/1986	Work 7	ype: BUI	LT		C	ode: IMPORTED	) Is	Major M&R: True	
Last Ins	<b>p. Date:</b> 1/9/2019		Totals	Samples: 18		Survey	ed: 3			
Conditio	ons: PCI: 64									
Inspecti	on Comments:									
-	Number: 200	Туре:	R	Are	ı.	5000.00 SqFt	PCI:	58		
•	Comments:	rype.	ĸ	AIU		5000.00 5411	Ten.	56		
-										
	& T CR		М	40.00 Ft						
	WELLING VEATHERING		L M	125.00 Sc 5000.00 Sc						
	& T CR		L	62.00 Ft						
	BLOCK CR		L	656.00 Sc						
	DEPRESSION		L	18.00 Sc						
Sample	Number: 301	Туре:	R	Are		3742.00 SqFt	PCI:	65		
Sample	Comments:									
57 V	VEATHERING		М	3742.00 So	Ft					
	DEPRESSION		L	24.00 Sc						
	2 & T CR		L	98.00 Ft						
56 S	WELLING		L	200.00 Sc	Ft					
Sample	Number: 400	Туре:	R	Are	ı:	5000.00 SqFt	PCI:	70		
Sample	Comments:									
57 V	VEATHERING		М	5000.00 So	Ft					
	& T CR		L	161.00 Ft						
			L		Ft					

Network:	VDF			Nai	ne: TAN	IPA EXECU	TIVE AIRPORT		
Branch:	AP S		Name:	SOUTH APR	.ON "A"	Use:	APRON	Area:	197,801 SqFt
Section:	4110	of	3	From: -			То: -		Last Const.: 1/1/1986
Surface:	AC	Family: (	C9N59-RL-AI	P-AC Zor	ne:		Category:		Rank: P
Area:	115,269	9 SqFt	Length:	300	Ft	Width:	400 Ft		
Slabs:		Slab Lengt	h:	Ft	Slab Width:		Ft	Joint L	ength: Ft
Shoulder:		Street Type	e:		Grade: 0			Lanes:	0
Section Co	omments:								
Work Date	e: 1/1/1986	Wor	k Type: BUI	LT		С	ode: IMPORTED	Is N	Iajor M&R: True
Last Insp.	Date: 1/9/2019		TotalS	amples: 22		Surveye	<b>d:</b> 3		
Conditions	s: PCI: 70								
Inspection	Comments:								
Sample Nu	<b>imber:</b> 204	Туре:	R	Area:	4000	.00 SqFt	<b>PCI:</b> 7	4	
Sample Co	omments:								
52 RA	VELING		L	5.00 SqFt					
	ATHERING		М	3995.00 SqFt					
48 L &	τ CR		L	42.00 Ft					
Sample Nu	<b>imber:</b> 252	Туре:	R	Area:	6000	.00 SqFt	<b>PCI:</b> 7	0	
Sample Co	omments:								
57 WE	ATHERING		М	6000.00 SqFt					
48 L&	z T CR		L	202.00 Ft					
56 SW	ELLING		L	425.00 SqFt					
Sample Nu	<b>umber:</b> 403	Туре:	R	Area:	5000	.00 SqFt	<b>PCI:</b> 6	9	
Sample Co	omments:								
57 WE	ATHERING		М	5000.00 SqFt					
	z T CR		L	64.00 Ft					
	PRESSION		L	12.00 SqFt					
56 SW	ELLING		L	462.00 SqFt					

Network:	VDF			Nam	ne: TAN	IPA EXECU	TIVE AIRPORT		
Branch:	AP S		Name:	SOUTH APRO	ON "A"	Use:	APRON	Area:	197,801 SqFt
Section:	4115	to	f 3 F	rom: -			То: -		Last Const.: 1/1/1986
Surface:	AC	Family:	C9N59-RL-AP	-AC Zon	e:		Category:		Rank: P
Area:		4,786 SqFt	Length:	192 F	ťt	Width:	25 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Width:		Ft	Joint Leng	th: Ft
Shoulder:		Street Ty	pe:		Grade: 0			Lanes:	0
Section Co	omments:								
Work Dat	te: 1/1/1986	W	ork Type: BUIL	Т		Co	ode: IMPORTED	Is Maj	or M&R: True
Last Insp.	<b>Date:</b> 1/9/	2019	TotalSa	mples: 1		Surveye	<b>d:</b> 1		
Condition	s: PCI:	74							
Inspection	n Comments	:							
Sample N	<b>umber:</b> 60	0 <b>Typ</b>	e: R	Area:	4783	.00 SqFt	<b>PCI:</b> 74	4	
Sample Co	omments:								
48 L &	& T CR		L	37.00 Ft					
52 RA	VELING		L	2.00 SqFt					
57 WI	EATHERING	Ĵ	М	4781.00 SqFt					

Netwo	ork: VDF			Nar	ne: TA	MPA EXECU	JTIVE AIRPORT				
Branc	ch: AP T-HANG		Name:	T-HANGARS	S APRON	Use:	APRON	Area:	159,945	SqFt	
Sectio	<b>m:</b> 4310	of 2	F	rom: -			То: -		Last	Const.: 1	1/1/1974
Surfa	ce: AC	Family: C91	N59-RL-AP-	AC Zor	ie:		Category:		Ranl	к: Р	
Area:	147,914	4 SqFt	Length:	368 1	Ft	Width:	415 Ft				
Slabs	:	Slab Length:		Ft	Slab Width:		Ft	Jo	int Length:	Ft	
Shoul	der:	Street Type:			Grade: 0			La	<b>nes:</b> 0		
Sectio	on Comments:										
Work	<b>Date:</b> 1/1/1974	Work I	fype: BUIL	Т		C	ode: IMPORTED		Is Major M&R:	True	
Work	<b>Date:</b> 1/1/2014	Work T	Type: Surfac	e Treatment - Ch	ip Seal	C	ode: ST-Chip SL		Is Major M&R:	False	
Last l	<b>nsp. Date:</b> 1/9/2019		TotalSa	mples: 39		Survey	ed: 5				
Cond	itions: PCI: 73										
Inspe	ction Comments:										
Samp	le Number: 105	Туре:	R	Area:	350	0.00 SqFt	<b>PCI:</b> 68	;			
Samp	le Comments:										
57	WEATHERING	]	L	3500.00 SqFt							
45	DEPRESSION	]	L	46.00 SqFt							
48	L & T CR		L	214.00 Ft							
41	ALLIGATOR CR		L	10.00 SqFt	200	0.00 G E	DCI 70				
-	le Number: 201	Туре:	R	Area:	300	0.00 SqFt	<b>PCI:</b> 72				
Samp	le Comments:										
48	L & T CR		L	296.00 Ft							
57 Same	WEATHERING		L D	3000.00 SqFt	200	0.00.8-E4	<b>DCI</b> . 90	<u> </u>			
-	le Number: 302	Туре:	R	Area:	300	0.00 SqFt	<b>PCI:</b> 80	,			
Samp	le Comments:										
57 49	WEATHERING		L	3000.00 SqFt							
48 Samn	L & T CR	Туре:	L R	153.00 Ft Area:	405	0.00 SqFt	<b>PCI:</b> 73				
-	le Number: 502 le Comments:	i ype:	К	Area:	493	0.00 Sqrt	ru: /3				
-			r	15.00 0 5							
45 48	DEPRESSION L & T CR		L L	15.00 SqFt 403.00 Ft							
40 57	WEATHERING		L	403.00 Ft 4950.00 SqFt							
	le Number: 703	Туре:	R	Area:	300	0.00 SqFt	<b>PCI:</b> 74				
-	le Comments:	**				1					
45	DEPRESSION	]	L	32.00 SqFt							
48	L & T CR		L	154.00 Ft							
57	WEATHERING		L	3000.00 SqFt							
56	SWELLING	]	L	3.00 SqFt							

Network:	VDF			Na	me: TA	MPA EXECU	TIVE AIRPORT			
Branch:	AP T-HANG		Name:	T-HANGAR	S APRON	Use:	APRON	Area:	159,945 SqFt	
Section:	4315	of 2	Fi	rom: -			To: -		Last Const.:	12/26/2009
Surface:	AAC	Family: C9	N59-RL-AP-	AAC-APC Zoi	ne:		Category:		Rank: P	
Area:	12,03	1 SqFt	Length:	300	Ft	Width:	40 Ft			
Slabs:		Slab Length	:	Ft	Slab Width:		Ft	Joint Le	ength: F	t
Shoulder:		Street Type:			Grade: (	)		Lanes:	0	
Section Co	mments:									
Work Date	e: 12/25/1974	Work	Type: New C	Construction - Ini	tial	С	ode: NU-IN	Is N	lajor M&R: True	
Work Date	e: 12/26/2009	Work	Type: MILL	and OVERLAY		С	ode: ML-OV	Is N	lajor M&R: True	
-	Date: 1/9/2019		TotalSa	mples: 8		Surveye	<b>d:</b> 1			
Conditions Inspection	: PCI: 69 Comments:									
Sample Nu	<b>mber:</b> 499	Туре:	R	Area:	168	3.00 SqFt	PCI:	69		
Sample Co	mments:									
	T CR ATHERING VELING		L L	142.00 Ft 1431.00 SqFt 252.00 SqFt						

Netwo	ork: VDF			Name:	TAMPA EXECU	TIVE AIRPORT		
Brand			Name			RUNWAY	Area:	243,145 SqFt
		of			0.56.	To: -	Alta.	
Sectio								Last Const.: 1/2/1986
Surfa	ce: AAC	<b>.</b>	S9N59-RL APC	-RW-AAC- Zone:		Category:		Rank: P
Area:	243,14	5 SqFt	Leng	th: 3,259 Ft	Width:	75 Ft		
Slabs	:	Slab Lengtl	h:	Ft SI	ab Width:	Ft	Joint Lengt	h: Ft
Shoul	der:	Street Type	e:	G	rade: 0		Lanes:	0
Sectio	on Comments:							
Work	<b>Date:</b> 1/1/1986	Worl	k Type: N	Jew Construction - AC	C	ode: NC-AC	Is Majo	r M&R: True
Work	<b>Date:</b> 1/2/1986	Worl	k Type: (	Overlay - AC Structural	C	ode: OL-AS	Is Majo	r M&R: True
Last 1	Insp. Date: 1/9/2019		To	talSamples: 65	Surveye	<b>d:</b> 13		
	itions: PCI: 68			1	U			
	ction Comments:							
	le Number: 101	Туре:	R	Area:	3750.00 SqFt	PCI:	60	
-	le Comments:	i ype.	K	Aita.	5750.00 Sqrt	Tel.	00	
52	RAVELING		L	3550.00 SqFt				
50	PATCHING		L	56.00 SqFt				
52	RAVELING		М	144.00 SqFt				
48	L & T CR	T	L	118.00 Ft	2750.00 0 5	DCL	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
-	le Number: 105	Туре:	R	Area:	3750.00 SqFt	PCI:	66	
Samp	le Comments:							
57	WEATHERING		Μ	2000.00 SqFt				
52	RAVELING		L	1750.00 SqFt				
48 48	L & T CR L & T CR		L M	110.00 Ft 5.00 Ft				
	le Number: 108	Туре:		Area:	3750.00 SqFt	PCI:	65	
-	le Comments:	rype.	R	nica.	5750.00 5417	101.		
48	L & T CR		L	150.00 Ft				
48	L & T CR		М	6.00 Ft				
57	WEATHERING		Μ	3562.00 SqFt				
52	RAVELING		L	188.00 SqFt				
-	le Number: 113	Туре:	R	Area:	3750.00 SqFt	PCI:	65	
-	le Comments:							
48	L & T CR		М	6.00 Ft				
57 48	WEATHERING L & T CR		M	3562.00 SqFt 231.00 Ft				
40 52	RAVELING		L L	188.00 SqFt				
	le Number: 119	Туре:		Area:	3750.00 SqFt	PCI:	70	
-	le Comments:	51			1			
48	L & T CR		L	115.00 Ft				
57	WEATHERING		M	3500.00 SqFt				
52	RAVELING		L	250.00 SqFt				
Samp	le Number: 125	Туре:	R	Area:	3750.00 SqFt	PCI:	70	
-	le Comments:							
57 52	WEATHERING		М	3562.00 SqFt				
52 48	RAVELING L & T CR		L L	188.00 SqFt 138.00 Ft				
	le Number: 131	Туре:		Area:	3750.00 SqFt	PCI:	70	
-	le Comments:	., F			· · · · · - 1- ·			
48	L & T CR		L	100.00 Ft				
52	RAVELING		L	188.00 SqFt				
57	WEATHERING		М	3562.00 SqFt				

Samp	ble Number: 137	Type:	R	Area:	3750.00 SqFt	<b>PCI:</b> 70	
Samp	ole Comments:						
52	RAVELING	L	×	188.00 SqFt			
48	L & T CR	L	,	94.00 Ft			
57	WEATHERING	Ν		3562.00 SqFt			
Samp	ole Number: 143	Type:	R	Area:	3750.00 SqFt	<b>PCI:</b> 70	
Samp	ole Comments:						
52	RAVELING	L	×	188.00 SqFt			
57	WEATHERING	Ν	1	3562.00 SqFt			
48	L & T CR	L	,	75.00 Ft			
Samp	ole Number: 149	Type:	R	Area:	3750.00 SqFt	<b>PCI:</b> 70	
Samp	ole Comments:						
48	L & T CR	L	,	112.00 Ft			
52	RAVELING	L	,	188.00 SqFt			
57	WEATHERING	Ν		3562.00 SqFt			
Samp	ole Number: 156	Туре:	R	Area:	3750.00 SqFt	<b>PCI:</b> 70	
Samp	ple Comments:						
52	RAVELING	L	,	188.00 SqFt			
48	L & T CR	L	,	117.00 Ft			
57	WEATHERING	Ν	1	3562.00 SqFt			
Samp	ole Number: 160	Type:	R	Area:	3750.00 SqFt	<b>PCI:</b> 69	
Samp	ole Comments:						
52	RAVELING	L	r	2000.00 SqFt			
48	L & T CR	L		90.00 Ft			
57	WEATHERING	Ν	1	1750.00 SqFt			
Samp	ole Number: 163	Туре:	R	Area:	3750.00 SqFt	<b>PCI:</b> 66	
Samp	ole Comments:						
52	RAVELING	L	×	2900.00 SqFt			
57	WEATHERING	Ν		850.00 SqFt			
48	L & T CR	L		32.00 Ft			

Network: VDF		Name:	TAMPA EXECU	TIVE AIRPORT	
Branch: RW 5-23	Name:	RUNWAY 5-23	Use:	RUNWAY	Area: 500,000 SqFt
Section: 6205	of 1 F	rom: -		То: -	Last Const.: 1/1/1999
Surface: AC	Family: C9N59-RL-RW	-AC Zone:		Category:	Rank: P
Area: 500,0	000 SqFt Length:	5,000 Ft	Width:	100 Ft	
Slabs:	Slab Length:	Ft Slab W	idth:	Ft	Joint Length: Ft
Shoulder:	Street Type:	Grade:	0		Lanes: 0
Section Comments:					
Work Date: 1/1/1999	Work Type: New C	Construction - Initial	C	ode: NU-IN	Is Major M&R: True
Last Insp. Date: 1/9/201	9 TotalSa	<b>mples:</b> 100	Surveye	<b>d:</b> 20	
Conditions: PCI: 68					
Inspection Comments:					
Sample Number: 105	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 71	
Sample Comments:					
57 WEATHERING	М	3000.00 SqFt			
52 RAVELING	L	2000.00 SqFt			
48 L&TCR	L	90.00 Ft			
Sample Number: 112	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 71	
Sample Comments:					
48 L & T CR 57 WEATHERING	L M	130.00 Ft 3000.00 SqFt			
57 WEATHERING 52 RAVELING	L INI	2000.00 SqFt			
Sample Number: 118	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 71	
Sample Comments:					
57 WEATHERING	М	3000.00 SqFt			
52 RAVELING	L	2000.00 SqFt			
48 L & T CR	L	113.00 Ft			
Sample Number: 123 Sample Comments:	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 69	
-	Ţ	174.00 5			
48 L & T CR 52 RAVELING	L L	174.00 Ft 2800.00 SqFt			
57 WEATHERING	М	2200.00 SqFt			
Sample Number: 128	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 67	
Sample Comments:					
48 L & T CR	М	4.00 Ft			
52 RAVELING 57 WEATHERING	L M	2000.00 SqFt 3000.00 SqFt			
48 L&TCR	L	175.00 Ft			
Sample Number: 133	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 71	
Sample Comments:					
48 L & T CR	L	204.00 Ft			
52 RAVELING	L	2000.00 SqFt			
57 WEATHERING	L Type: P	3000.00 SqFt	5000 00 S-E+	<b>PCI:</b> 67	
Sample Number: 138 Sample Comments:	Type: R	Area:	5000.00 SqFt	rcl: 0/	
-					
57 WEATHERING 48 L & T CR	M L	3000.00 SqFt 158.00 Ft			
52 RAVELING	L	2000.00 SqFt			
48 L & T CR	М	6.00 Ft			
Sample Number: 143	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 67	
Sample Comments:					
57 WEATHERING	М	3000.00 SqFt			
48 L & T CR 52 RAVELING	M L	5.00 Ft 2000.00 SqFt			
	L	2000.00 Bqrt			

48 L&T	ΓCR		L	125.00 Ft			
Sample Num	nber: 147	Type:	R	Area:	5000.00 SqFt	<b>PCI:</b> 68	
Sample Com	nments:						
48 L&T			М	2.00 Ft			
	THERING		М	3250.00 SqF	Ft		
48 L&T 52 RAV	ELING		L L	107.00 Ft 1750.00 SqF	ł		
Sample Num		Type:	R	Area:		<b>PCI:</b> 67	
Sample Com		- Jpor					
-			м	5 00 Et			
	ELING		M L	5.00 Ft 2000.00 SqF	7t		
	THERING		М	3000.00 SqF			
48 L&1	Г CR		L	143.00 Ft			
Sample Num	<b>nber:</b> 156	Type:	R	Area:	5000.00 SqFt	<b>PCI:</b> 69	
Sample Com	iments:						
	ELING		L	2700.00 SqF	ł		
48 L&1			L	181.00 Ft	7.		
	THERING	T	M	2300.00 SqF		DCI (0	
Sample Num		Туре:	R	Area:	5000.00 SqFt	<b>PCI:</b> 68	
Sample Com					_		
57 WEA 48 L&T	THERING		M L	3250.00 SqF 210.00 Ft	łt		
48 L&1			M	9.00 Ft			
52 RAV	ELING		L	1750.00 SqF	ft		
Sample Num	<b>nber:</b> 165	Type:	R	Area	5000.00 SqFt	<b>PCI:</b> 68	
Sample Com	iments:						
52 RAV	ELING		М	305.00 SqF	<sup>7</sup> t		
48 L&T			L	90.00 Ft			
48 L&T 52 RAV	Γ CR ELING		M L	3.00 Ft 1750.00 SqF	7+		
Sample Num		Туре:	R	Area		<b>PCI:</b> 67	
Sample Com		rype.	R	/ i ca			
-	THERING		М	3000.00 SqF	74		
	ELING		L	2000.00 SqF			
48 L&T	ΓCR		L	120.00 Ft			
48 L&1			М	5.00 Ft			
Sample Num		Туре:	R	Area:	5000.00 SqFt	<b>PCI:</b> 67	
Sample Com	iments:						
48 L&T			М	6.00 Ft			
48 L&T 52 RAV	Г CR ELING		L L	190.00 Ft 2000.00 SqF			
	THERING		M	3000.00 SqF			
Sample Num		Type:	R	Area		<b>PCI:</b> 67	
Sample Comments:							
52 RAV	ELING		L	2000.00 SqF	₹t		
57 WEA	THERING		М	3000.00 SqF			
48 L&1 48 L&1			L M	122.00 Ft 3.00 Ft			
Sample Num		Type:	R		5000.00 SqFt	<b>PCI:</b> 68	
Sample Com		- 7 P.C.					
-			т				
48 L&T 52 RAV	I CR ELING		L L	99.00 Ft 3200.00 SqF	- Ft		
	THERING		M	1800.00 SqF			
Sample Num	<b>nber:</b> 186	Type:	R	Area	5000.00 SqFt	<b>PCI:</b> 66	
Sample Com	nments:						
48 L&T	ΓCR		L	143.00 Ft			
	ELING		L	2000.00 SqF	₹t		

48	L & T CR	М	10.00 Ft			
57	WEATHERING	М	3000.00 SqFt			
Samp	ole Number: 191	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 66	
Samp	ole Comments:					
57	WEATHERING	М	4050.00 SqFt			
48	L & T CR	L	171.00 Ft			
52	RAVELING	L	950.00 SqFt			
48	L & T CR	М	30.00 Ft			
Samp	ole Number: 196	Type: R	Area:	5000.00 SqFt	<b>PCI:</b> 66	
Samp	ole Comments:					
48	L & T CR	М	50.00 Ft			
48	L & T CR	L	115.00 Ft			
52	RAVELING	L	625.00 SqFt			
57	WEATHERING	М	4375.00 SqFt			

<b>N</b> T / <b>N</b>	VDE				T 1 1 (D 1 - D	VEGUTINE A INDONT		
Network:	VDF			Na	me: TAMPA E	XECUTIVE AIRPORT		
Branch:	TL J		Name:	TAXILANE	J	Use: TAXILANE	Area:	28,314 SqFt
Section:	4505	of	f 1 F	rom: -		To: -		Last Const.: 1/1/1999
Surface:	AC	Family:	C9N59-RL-TW	AC Zo	ne:	Category:		Rank: P
Area:	28,3	14 SqFt	Length:	1,164	Ft Widt	h: 22 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Width:	Ft	Joint Lengt	h: Ft
Shoulder:		Street Ty	pe:		Grade: 0		Lanes:	0
Section Co	omments:							
Work Dat	te: 1/1/1999	We	ork Type: New	Construction - In	itial	Code: NU-IN	Is Majo	or M&R: True
Last Insp.	<b>Date:</b> 1/9/2019		TotalSa	amples: 6	Sı	irveyed: 1		
Condition	s: PCI: 59							
Inspection	or Comments:							
Sample N	<b>umber:</b> 201	Тур	e: R	Area:	4796.00 Sc	IFt PCI:	59	
Sample Co	omments:							
48 L&	& T CR		L	42.00 Ft				
50 PA	TCHING		М	98.00 SqFt				
52 RA	VELING		L	4688.00 SqFt				

Netwo	ork: VDF			Nai	ne: TAN	APA EXECT	TIVE AIRPORT		
Branc			Name:	TAXIWAY A			TAXIWAY	Area:	129,270 SqFt
Sectio		of 5		From: -	-		To: -		Last Const.: 1/1/1986
Surfa			N59-RL-'						<b>Rank:</b> P
		•				XX7° 141	Category:		Kank: r
Area:		-	Lengtl			Width:	35 Ft		
Slabs:		Slab Length:		Ft	Slab Width:		Ft	Joint I	
Shoul		Street Type:			Grade: 0			Lanes:	0
Sectio	n Comments:								
Work	<b>Date:</b> 1/1/1986	Work	Гуре: Bl	ЛЦТ		С	ode: IMPORTEI	D Is	Major M&R: True
Last I	nsp. Date: 1/9/2019		Tota	ISamples: 32		Surveye	<b>d:</b> 7		
Condi	itions: PCI: 63								
Inspec	ction Comments:								
	le Number: 100	Туре:	R	Area:	4004	.00 SqFt	PCI:	67	
-		I ype:	К	Area:	4004	.00 Sqrt	rti;	07	
Sampl	le Comments:								
57	WEATHERING		М	3815.00 SqFt					
48 52	L & T CR		L	114.00 Ft					
52 50	RAVELING PATCHING		L L	39.00 SqFt 150.00 SqFt					
	le Number: 101	Туре:	R	Area:	3500	0.00 SqFt	PCI:	66	
-	le Comments:	- <b>, pc</b> .	11	2 11 ca.	5500		1 (1)		
-									
57 52	WEATHERING RAVELING		M L	3150.00 SqFt					
32 48	L & T CR		L H	350.00 SqFt 13.00 Ft					
48	L&TCR		L	28.00 Ft					
Samp	le Number: 109	Туре:	R	Area:	3500	0.00 SqFt	PCI:	65	
-	le Comments:					-			
10			т	42.00 E4					
48 52	L & T CR RAVELING		L L	42.00 Ft 225.00 SqFt					
57	WEATHERING		M	3275.00 SqFt					
48	L & T CR		М	44.00 Ft					
Samp	le Number: 117	Туре:	R	Area:	3500	0.00 SqFt	PCI:	65	
Samp	le Comments:								
48	L & T CR		М	4.00 Ft					
57	WEATHERING		M	3349.00 SqFt					
52	RAVELING		L	151.00 SqFt					
48	L & T CR		L	186.00 Ft					
56	SWELLING		L	5.00 SqFt					
-	le Number: 119	Туре:	R	Area:	3500	0.00 SqFt	PCI:	/4	
Sampl	le Comments:								
50	PATCHING		L	60.00 SqFt					
52	RAVELING		M	6.00 SqFt					
48 52	L & T CR RAVELING		L L	90.00 Ft 516.00 SqFt					
					2500	00 S~E+	DCI.	65	
-	le Number: 125	Туре:	R	Area:	3500	0.00 SqFt	PCI:	05	
Sampl	le Comments:								
48	L & T CR		М	44.00 Ft					
52	RAVELING		L	350.00 SqFt					
57 48	WEATHERING L & T CR		M L	3150.00 SqFt 49.00 Ft					
	le Number: 130	Туре:	R	Area:	5173	.00 SqFt	PCI:	47	
-	le Comments:	- , per		211 cui	5175		1011		
-									
48 52	L & T CR		L	546.00 Ft					
52 48	RAVELING L & T CR		L M	2716.00 SqFt 16.00 Ft					
50	PATCHING		L	504.00 SqFt					
				*					

56	SWELLING	L	12.00	SqFt
50	PATCHING	М	345.00	SqFt
52	RAVELING	М	184.00	SqFt

Network:	VDF				Name:	TAMPA EX	ECUTIVE AIF	RPORT		
Branch:	TW A		Name:	TAXIW	AY A	U	se: TAXIW	ΆΥ	Area:	129,270 SqFt
Section:	120	0	f 5	From: -			To:	-		Last Const.: 1/1/1986
Surface:	AC	Family:	C9N59-RL-T	W-AC	Zone:		Cate	gory:		Rank: P
Area:		2,772 SqFt	Length:		75 Ft	Width:		30 Ft		
Slabs:		Slab Len	gth:	Ft	Slab	Width:	Ft		Joint Lengtl	h: Ft
Shoulder:		Street Ty	ype:		Grad	le: 0			Lanes: (	)
Section Co	omments:									
Work Date	e: 1/1/1986	W	ork Type: BUI	LT			Code: IMI	PORTED	Is Majo	r M&R: True
Last Insp.	<b>Date:</b> 1/9/2	2019	Totals	Samples: 1		Sur	veyed: 1			
Conditions	s: PCI:	69								
Inspection	Comments:	:								
Sample Nu	umber: 100	) <b>Ty</b>	e: R	Are	ea:	2772.00 SqF	į	<b>PCI:</b> 69		
Sample Co	omments:									
48 L&	& T CR		L	47.00 F	t					
	EATHERING	Ì	М	1272.00 S	-					
52 RA	VELING		L	1500.00 S	qFt					

Network:	VDF			Nar	ne: TAMPA	EXECUTIVE A	AIRPORT		
Branch:	TW A		Name:	TAXIWAY A	1	Use: TAX	IWAY A	rea: 129	,270 SqFt
Section:	140	0	f 5	From: -		Te	0: -		Last Const.: 1/2/1986
Surface:	AAC	Family:	C9N59-RL-T APC	W-AAC- Zon	le:	C	ategory:		Rank: P
Area:		3,862 SqFt	Length:	100 I	Ft Wi	dth:	35 Ft		
Slabs:		Slab Ler	igth:	Ft	Slab Width:	Ft		Joint Length:	Ft
Shoulder:		Street T	ype:		Grade: 0			Lanes: 0	
Section Co	omments:								
Work Date	e: 1/1/1986	W	ork Type: New	Construction - AC	;	Code: N	IC-AC	Is Major Ma	<b>&amp;R:</b> True
Work Date	e: 1/2/1986	W	ork Type: Ove	rlay - AC Structura	1	Code: C	DL-AS	Is Major Ma	<b>&amp;R:</b> True
Last Insp. ]	Date: 1/9/	2019	Totals	Samples: 1		Surveyed: 1			
Conditions	s: PCI:	65							
Inspection	Comments	:							
Sample Nu	mber: 20	) <b>Ty</b>	pe: R	Area:	3862.00	SqFt	<b>PCI:</b> 65		
Sample Co	omments:								
52 RA	VELING		М	25.00 SqFt					
	t CR		L	106.00 Ft					
48 L&	t CR		М	3.00 Ft					
	VELING			2000.00 SqFt					

Network:	VDF			I	Name:	TAMPA EXECU	JTIVE AIRPORT		
Branch:	TW A		Name:	TAXIWA	Y A	Use:	TAXIWAY	Area:	129,270 SqFt
Section:	160	o	f 5	From: -			То: -		Last Const.: 1/2/1986
Surface:	AAC	Family:	C9N59-RL-T APC	W-AAC-	Zone:		Category:		Rank: P
Area:		3,861 SqFt	Length:	10	00 Ft	Width:	35 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Wid	lth:	Ft	Joint Length	n: Ft
Shoulder:		Street Ty	pe:		Grade:	0		Lanes: 0	)
Section Co	mments:								
Work Date	: 1/1/1986	W	ork Type: New	Construction -	AC	C	code: NC-AC	Is Majo	r M&R: True
Work Date	: 1/2/1986	W	ork Type: Ove	rlay - AC Struct	ural	С	Code: OL-AS	Is Majo	r M&R: True
Last Insp. l	Date: 1/9/2	019	Totals	Samples: 1		Surveyo	ed: 1		
Conditions Inspection	: PCI: Comments:	60							
Sample Nu	mber: 300	Тур	e: R	Area		3861.00 SqFt	PCI: 6	60	
Sample Co	mments:								
50 PAT	CHING		L	91.00 Sq	Ft				
52 RAV	VELING		М	200.00 Sq	Ft				
48 L&	T CR		М	6.00 Ft					
			т	2000 00 5-	<b>F</b> .				
52 RAV	VELING		L	2000.00 Sq	Ft				

Network:	VDF				Nam	e: TAI	MPA EXECU	JTIVE AIRPORT		
Branch:	TW A		Name:	TAXI	WAY A		Use:	TAXIWAY	Area:	129,270 SqFt
Section:	180	0	f 5	From:	-			To: -		Last Const.: 1/2/1986
Surface:	AAC	Family:	C9N59-RL- APC	TW-AAC-	Zone	:		Category:		Rank: P
Area:		4,111 SqFt	Lengt	h:	100 F	t	Width:	35 Ft		
Slabs:		Slab Lei	ngth:	Ft		Slab Width:		Ft	Join	t Length: Ft
Shoulder:		Street T	ype:			Grade: 0			Lane	es: 0
Section Co	omments:									
Work Dat	e: 1/1/1986	W	ork Type: No	ew Constructi	on - AC		C	Code: NC-AC	J	Is Major M&R: True
Work Dat	e: 1/2/1986	W	ork Type: O	verlay - AC St	tructural		C	ode: OL-AS	]	Is Major M&R: True
Last Insp.	<b>Date:</b> 1/9/	2019	Tota	lSamples:	1		Survey	ed: 1		
Condition	s: PCI:	70								
Inspection	<b>Comments</b>	:								
Sample Nu	umber: 40	0 <b>Ty</b>	pe: R		Area:	411	1.00 SqFt	PCI:	70	
Sample Co	omments:									
52 RA	VELING		М	50.00	SqFt					
48 L&	& T CR		L	131.00	-					
52 RA	VELING		L	2000.00	SqFt					

Network: VDF		Name:	TAMPA EXECU	JTIVE AIRPORT			
Branch: TW B	Name:	TAXIWAY B	Use:	TAXIWAY	Area:	22,554 SqFt	
Section: 210	of 2	From: -		To: -		Last Const.:	1/1/1989
Surface: AC	Family: C9N59-RL-	TW-AC Zone:		Category:		Rank: P	
Area: 15,	268 SqFt Lengtl	<b>1:</b> 430 Ft	Width:	35 Ft			
Slabs:	Slab Length:	Ft Slal	o Width:	Ft	Joint Lo	ength: F	t
Shoulder:	Street Type:	Gra	<b>ide:</b> 0		Lanes:	0	
Section Comments:							
Work Date: 1/1/1989	Work Type: BU	ЛГТ	С	ode: IMPORTED	Is N	fajor M&R: True	
Last Insp. Date: 1/9/201	9 Tota	lSamples: 4	Surveye	ed: 2			
Conditions: PCI: 21							
Inspection Comments:							
Sample Number: 201	Type: R	Area:	3500.00 SqFt	<b>PCI:</b> 24	4		
Sample Comments:							
43 BLOCK CR	М	3500.00 SqFt					
56 SWELLING	L	14.00 SqFt					
52 RAVELING	М	3500.00 SqFt					
Sample Number: 203	Type: R	Area:	4768.00 SqFt	<b>PCI:</b> 19	9		
Sample Comments:							
48 L&TCR	L	38.00 Ft					
43 BLOCK CR	L	1929.00 SqFt					
52 RAVELING	Н	4.00 SqFt					
52 RAVELING	М	4764.00 SqFt					
56 SWELLING	L	280.00 SqFt					
41 ALLIGATOR CR	М	171.00 SqFt					
45 DEPRESSION	L	182.00 SqFt					

Network:	VDF			Na	me: TAMPA EXE	CUTIVE AIRPORT		
Branch:	TW B		Name:	TAXIWAY I	3 Use	: TAXIWAY	Area:	22,554 SqFt
Section:	250	o	f 2	From: -		То: -		Last Const.: 1/1/1989
Surface:	AC	Family:	C9N59-RL-T	W-AC Zor	ne:	Category:		Rank: P
Area:		7,286 SqFt	Length:	330	Ft Width:	40 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Width:	Ft	Joint Length	: Ft
Shoulder:		Street Ty	ype:		Grade: 0		Lanes: 0	
Section Co	mments:							
Work Date	: 1/1/1989	W	ork Type: BU	ILT		Code: IMPORTED	Is Major	M&R: True
Last Insp. l	Date: 1/9/20	019	Total	Samples: 2	Surve	eyed: 1		
Conditions	: PCI:	28						
Inspection	Comments:							
Sample Nu	<b>mber:</b> 101	Тур	e: R	Area:	3600.00 SqFt	PCI: 28	3	
Sample Co	mments:							
45 DEF	PRESSION		L	42.00 SqFt				
52 RAV	VELING		М	3600.00 SqFt				
48 L &	T CR		L	151.00 Ft				
48 L&	T CR		М	47.00 Ft				

Network:	VDF				Name	: TA	MPA EXECU	JTIVE AIRPORT		
Branch:	TW C		Name:	TAXI	WAY C		Use:	TAXIWAY	Area:	21,767 SqFt
Section:	405	of	<u>    1</u>	From:	-			To: -		Last Const.: 1/1/2001
Surface:	AC	Family:	C9N59-RL-T	W-AC	Zone:			Category:		Rank: S
Area:	21,7	767 SqFt	Length:		600 Ft		Width:	35 Ft		
Slabs:		Slab Len	gth:	Ft	S	Slab Width:		Ft	Joint L	ength: Ft
Shoulder:		Street Ty	pe:		(	Grade: 0			Lanes:	0
Section Cor	nments:									
Work Date:	: 1/1/2001	We	ork Type: New	v Constructio	on - Initial	l	С	ode: NU-IN	Is I	Major M&R: True
Last Insp. I	Date: 1/9/2019	9	Total	Samples:	6		Surveye	ed: 1		
<b>Conditions:</b>	<b>PCI:</b> 70									
Inspection (	Comments:									
Sample Nur	<b>mber:</b> 103	Тур	e: R	A	rea:	350	).00 SqFt	PCI:	70	
Sample Cor	mments:									
48 L&	T CR		L	111.00	Ft					
52 RAV	/ELING		L	1750.00	SqFt					
57 WEA	ATHERING		М	1750.00	SqFt					

Network:	VDF			ľ	lame:	TAMPA EXEC	UTIVE AIRPORT		
Branch:	TW D		Name:	TAXIWA	r D	Use:	TAXIWAY	Area:	36,474 SqFt
Section:	170	0	f 3	From: -			To: -		Last Const.: 1/1/1986
Surface:	AC	Family:	C9N59-RL-T	W-AC Z	Lone:		Category:		Rank: P
Area:		5,063 SqFt	Length:	10	0 Ft	Width:	35 Ft		
Slabs:		Slab Ler	ngth:	Ft	Slab Wid	lth:	Ft	Joint Lengt	h: Ft
Shoulder:		Street T	ype:		Grade:	0		Lanes:	)
Section Co	omments:								
Work Dat	te: 1/1/1986	W	ork Type: New	Construction -	Initial	(	Code: NU-IN	Is Majo	r M&R: True
Last Insp.	<b>Date:</b> 1/9/2	2019	Totals	Samples: 1		Survey	ed: 1		
Conditions	s: PCI:	61							
Inspection	n Comments:								
Sample Ni	umber: 100	Ту	pe: R	Area	:	5063.00 SqFt	PCI:	61	
Sample Co	omments:								
Sumple O									
-	& T CR		М	2.00 Ft					
48 L&	& T CR EATHERING		M M	2.00 Ft 2234.00 Sql	Ft				
48 L& 57 WE					Ft				
48 L & 57 WE 48 L &	EATHERING		М	2234.00 Sql					

Network:	VDF			Nar	ne: TA	MPA EXECU	JTIVE AIRPORT		
Branch:	TW D		Name:	TAXIWAY D	)	Use:	TAXIWAY	Area:	36,474 SqFt
Section:	305	of	3 <b>F</b> 1	rom: -			То: -		Last Const.: 1/1/2001
Surface:	AC	Family:	C9N59-RL-TW	-AC Zon	e:		Category:		Rank: T
Area:	24,	475 SqFt	Length:	700 H	<sup>7</sup> t	Width:	35 Ft		
Slabs:		Slab Leng	gth:	Ft	Slab Width:		Ft	Joint Lengt	h: Ft
Shoulder:		Street Ty	pe:		Grade: 0			Lanes:	0
Section Co	omments:								
Work Dat	te: 1/1/2001	Wo	rk Type: New (	Construction - Init	ial	С	ode: NU-IN	Is Majo	or M&R: True
Last Insp.	Date: 1/9/201	9	TotalSa	mples: 6		Surveye	ed: 1		
Condition	s: PCI: 68	;							
Inspection	n Comments:								
Sample Nu	<b>umber:</b> 104	Тур	e: R	Area:	363	2.00 SqFt	<b>PCI:</b> 6	8	
Sample Co	omments:								
48 L&	& T CR		L	85.00 Ft					
	EATHERING		М	1432.00 SqFt					
52 RA	VELING		L	2200.00 SqFt					

Network:	VDF			Nan	ne: TA	MPA EXECU	TIVE AIRPORT		
Branch:	TW D		Name:	TAXIWAY D		Use:	TAXIWAY	Area:	36,474 SqFt
Section:	310	of	3 Fi	rom: -			То: -		Last Const.: 1/1/2001
Surface:	AC	Family:	C9N59-RL-TW-	-AC Zon	e:		Category:		Rank: T
Area:		6,936 SqFt	Length:	200 F	t	Width:	35 Ft		
Slabs:		Slab Len	gth:	Ft	Slab Width:		Ft	Joint Lengt	h: Ft
Shoulder:	:	Street Ty	pe:		Grade: 0			Lanes:	0
Section Co	omments:								
Work Dat	<b>te:</b> 1/1/2001	Wo	ork Type: New C	Construction - Init	al	С	ode: NU-IN	Is Majo	or M&R: True
Last Insp.	. Date: 1/9/2	2019	TotalSa	mples: 2		Surveye	<b>d:</b> 1		
Condition	ns: PCI:	81							
Inspectior	n Comments:								
Sample N	<b>umber:</b> 101	Тур	e: R	Area:	338	5.00 SqFt	PCI: 8	31	
Sample C	comments:								
48 L&	& T CR		L	123.00 Ft					
57 WI	EATHERING		L	3351.00 SqFt					
52 RA	AVELING		L	34.00 SqFt					

Networ	rk: VDF	7					Nan	ne: T.	AMPA EXE	ECUTIV	E AIRPORT					
Branch	TW	E		N	ame:	TAXIW	AY E		Us	e: T	AXIWAY	A	Area:	145,7	723 SqFt	
Section	: 505		of	1	Fi	rom: -					То: -			I	ast Const.:	1/1/1999
Surface	e: AC		Family: C	29N59	9-RL-TW-	AC	Zon	e:			Category:			R	Rank: P	
Area:		145,72	3 SqFt	Ι	length:	4,	,156 F	ft	Width:		35 Ft					
Slabs:			Slab Lengtl	h:		Ft		Slab Width	:		Ft		Joint Len	gth:	Ft	
Should	er:		Street Type	:				Grade:	0				Lanes:	0		
Section	Comments	:														
Work I	Date: 1/1/19	999	Worl	к Тур	e: New C	Construction	n - Initi	ial		Code	NU-IN		Is Ma	ajor M&	R: True	
Last In	sp. Date:	1/9/2019			TotalSa	mples: 4	1		Surv	eyed:	5					
Condit	ions: PC	I: 72														
Inspect	tion Comme	ents:														
Sample	e Number:	105	Туре:		R	Ar	ea:	35	00.00 SqFt		PCI:	77				
Sample	e Comments	:														
	L & T CR			L		5.00 I										
	WEATHER			Μ		3500.00	SqFt									
Sample	e Number:	111	Туре:		R	Ar	ea:	35	00.00 SqFt		PCI:	75				
Sample	e Comments	:														
	L & T CR			L		36.00 I										
57	WEATHER	ING		М		3500.00	SqFt									
-	e Number:		Туре:		R	Ar	·ea:	35	00.00 SqFt		PCI:	70				
Sample	e Comments	:														
	WEATHER	ING		М		3500.00	SqFt									
	L & T CR			М		5.00 I										
48	L & T CR			L		55.00 1	Ft									
Sample	e Number:	126	Type:		R	Ar	ea:	35	00.00 SqFt		PCI:	70				
Sample	e Comments	:														
48	L & T CR			М		8.00 I	Ft									
	L & T CR			L		25.00 I										
	WEATHER	ING		М		3500.00										
Sample	e Number:	134	Туре:		R		ea:	35	00.00 SqFt		PCI:	66				
Sample	e Comments	:														
48	L & T CR			L		60.00 I	Ft									
	WEATHER	ING		М		3430.00										
	RAVELING			L		70.00 \$										
	L & T CR			М		9.00 I										

Network:	VDF			Nan	ne: TAMPA EXECU	UTIVE AIRPORT		
Branch:	TW E1		Name:	TAXIWAY E	-1 Use:	TAXIWAY	Area:	9,543 SqFt
Section:	510	0	f 1 I	From: -		То: -		Last Const.: 1/1/1999
Surface:	AC	Family:	C9N59-RL-TV	V-AC Zon	e:	Category:		Rank: P
Area:		9,543 SqFt	Length:	233 H	ft Width:	35 Ft		
Slabs:		Slab Ler	ıgth:	Ft	Slab Width:	Ft	Joint Length:	Ft
Shoulder:		Street T	ype:		Grade: 0		Lanes: 0	
Section Co	omments:							
Work Date	e: 1/1/1999	W	ork Type: New	Construction - Init	ial C	Code: NU-IN	Is Major	M&R: True
Last Insp.	<b>Date:</b> 1/9/2	2019	TotalS	amples: 2	Survey	ed: 1		
Conditions	s: PCI:	74						
Inspection	Comments:							
Sample Nu	umber: 10	l Tyj	pe: R	Area:	5120.00 SqFt	<b>PCI:</b> 74	4	
Sample Co	omments:							
57 WE	EATHERING	j	М	4000.00 SqFt				
57 WE	EATHERING	ì	L	1069.00 SqFt				
52 RA	VELING		L	51.00 SqFt				
	ε T CR		L	13.00 Ft				

Network:	VDF			Na	ne: TA	MPA EXECU	JTIVE AIRPORT		
Branch:	TW E2		Name:	TAXIWAY I	8-2	Use:	TAXIWAY	Area:	9,511 SqFt
Section:	515	o	f 1 F	From: -			То: -		Last Const.: 1/1/199
Surface:	AC	Family:	C9N59-RL-TW	V-AC Zor	ie:		Category:		Rank: P
Area:	9	9,511 SqFt	Length:	233	Ft	Width:	35 Ft		
Slabs:		Slab Len	ıgth:	Ft	Slab Width:		Ft	Joint Length:	Ft
Shoulder:		Street Ty	ype:		Grade: 0	1		Lanes: 0	
Section Co	mments:								
Work Date	: 1/1/1999	W	ork Type: New	Construction - Ini	tial	С	ode: NU-IN	Is Major	M&R: True
Last Insp. I	Date: 1/9/20	)19	TotalS	amples: 2		Surveye	e <b>d:</b> 1		
Conditions	: PCI:	70							
Inspection	Comments:								
Sample Nu	<b>mber:</b> 101	Тур	pe: R	Area:	532	4.00 SqFt	<b>PCI:</b> 7	70	
Sample Co	mments:								
57 WE	ATHERING		М	5058.00 SqFt					
48 L&	T CR		L	102.00 Ft					
52 RAV	VELING		L	266.00 SqFt					
	PRESSION			4.00 SqFt					

Network:	VDF			Na	me: TA	MPA EXECU	JTIVE AIRPORT		
Branch:	TW E3		Name:	TAXIWAY	E-3	Use:	TAXIWAY	Area:	9,876 SqFt
Section:	520	0	f 1	From: -			То: -		Last Const.: 1/1/1999
Surface:	AC	Family:	C9N59-RL-T	W-AC Zo	ne:		Category:		Rank: P
Area:		9,876 SqFt	Length:	233	Ft	Width:	35 Ft		
Slabs:		Slab Len	igth:	Ft	Slab Width:		Ft	Joint Length	: Ft
Shoulder:		Street Ty	ype:		Grade: 0	)		Lanes: 0	
Section Co	omments:								
Work Dat	e: 1/1/1999	W	ork Type: New	Construction - In	itial	С	ode: NU-IN	Is Major	M&R: True
Last Insp.	<b>Date:</b> 1/9/	2019	TotalS	Samples: 2		Surveye	ed: 1		
Condition	s: PCI:	71							
Inspection	Comments:	:							
Sample Nu	umber: 10	1 Typ	e: R	Area:	550	06.00 SqFt	<b>PCI:</b> 71	l	
Sample Co	omments:								
57 WE	EATHERING	Ĵ	М	5231.00 SqFt					
	& T CR		L	17.00 Ft					
52 RA	VELING		L	275.00 SqFt					

Network: VDF		Name:	TAMPA EXECUTIV	VE AIRPORT		
Branch: TW E4	Name:	TAXIWAY E-4	Use: T	TAXIWAY	Area:	8,961 SqFt
Section: 525	of 1	From: -		To: -		Last Const.: 1/1/1999
Surface: AC	Family: C9N59-RL-TV	V-AC Zone:		Category:		Rank: P
Area:	8,961 SqFt Length:	233 Ft	Width:	35 Ft		
Slabs:	Slab Length:	Ft Slab V	Vidth:	Ft	Joint Length:	Ft
Shoulder:	Street Type:	Grade	e: 0		Lanes: 0	
Section Comments:						
Work Date: 1/1/1999	Work Type: New	Construction - Initial	Code	NU-IN	Is Major	M&R: True
Last Insp. Date: 1/9/20	)19 TotalS	amples: 2	Surveyed:	1		
Conditions: PCI:	72					
Inspection Comments:						
Sample Number: 101	Type: R	Area:	5072.00 SqFt	<b>PCI:</b> 72		
Sample Comments:						
52 RAVELING	L	254.00 SqFt				
57 WEATHERING	М	4818.00 SqFt				
48 L & T CR	L	5.00 Ft				

Network: VDF		Name:	TAMPA EXECU	JTIVE AIRPORT		
Branch: TW F	Name:	TAXIWAY F	Use:	TAXIWAY	Area:	107,660 SqFt
Section: 605	of 3	From: -		To: -		Last Const.: 1/1/1999
Surface: AC	Family: C9N59-RL-T	W-AC Zone:		Category:		Rank: P
Area: 98,23	7 SqFt Length:	2,645 Ft	Width:	35 Ft		
Slabs:	Slab Length:	Ft Sl	ab Width:	Ft	Joint L	ength: Ft
Shoulder:	Street Type:	G	rade: 0		Lanes:	0
Section Comments:						
Work Date: 1/1/1999	Work Type: New	Construction - Initial	С	ode: NU-IN	Is I	Major M&R: True
Last Insp. Date: 1/9/2019	Totals	Samples: 28	Surveye	ed: 4		
Conditions: PCI: 73						
Inspection Comments:						
Sample Number: 106	Type: R	Area:	3500.00 SqFt	PCI: 75	5	
Sample Comments:			-			
48 L & T CR	L	43.00 Ft				
57 WEATHERING	М	3500.00 SqFt				
Sample Number: 110	Type: R	Area:	3500.00 SqFt	<b>PCI:</b> 75	5	
Sample Comments:						
57 WEATHERING	М	3500.00 SqFt				
48 L & T CR	L	37.00 Ft				
Sample Number: 118	Type: R	Area:	3500.00 SqFt	<b>PCI:</b> 75	5	
Sample Comments:						
48 L & T CR	L	38.00 Ft				
57 WEATHERING	М	3500.00 SqFt				
Sample Number: 124	Type: R	Area:	3500.00 SqFt	<b>PCI:</b> 70	)	
Sample Comments:						
48 L & T CR	М	20.00 Ft				
57 WEATHERING	М	3500.00 SqFt				
48 L & T CR	L	56.00 Ft				

Network:	VDF				Name	TAN	MPA EXECU	JTIVE AIRPORT		
Branch:	TW F		Name:	TAXIW	AY F		Use:	TAXIWAY	Area:	107,660 SqFt
Section:	610	to	f 3	From: -				To: -		Last Const.: 1/1/1999
Surface:	AC	Family:	C9N59-RL-TV	W-AC	Zone:			Category:		Rank: P
Area:		4,871 SqFt	Length:		70 Ft		Width:	50 Ft	ţ	
Slabs:		Slab Len	gth:	Ft	S	lab Width:		Ft	Joint	t Length: Ft
Shoulder:		Street Ty	/pe:		G	Grade: 0			Lane	es: 0
Section Co	omments:									
Work Dat	te: 1/1/1999	W	ork Type: New	Construction	- AC		С	ode: NC-AC	I	Is Major M&R: True
Last Insp.	Date: 1/9/2	2019	TotalS	amples: 1			Surveye	ed: 1		
Condition	s: PCI:	70								
Inspection	n Comments:									
Sample N	<b>umber:</b> 100	) Typ	e: R	Ar	ea:	4871	1.00 SqFt	PCI:	70	
Sample Co	omments:									
48 L&	& T CR		L	117.00 H	Ft					
	EATHERING	ł	М	4746.00 \$	1					
52 RA	VELING		L	125.00 \$	SqFt					

Network:	VDF			I	Name:	ГАМРА ЕХЕС	UTIVE AIRPORT		
Branch:	TW F		Name:	TAXIWA	Y F	Use:	TAXIWAY	Area:	107,660 SqFt
Section:	615	0	f 3	From: -			То: -		Last Const.: 1/1/1999
Surface:	AC	Family:	C9N59-RL-T	W-AC Z	Zone:		Category:		Rank: P
Area:		4,552 SqFt	Length:	10	00 Ft	Width:	40 Ft		
Slabs:		Slab Lei	ngth:	Ft	Slab Widt	th:	Ft	Joint Lengt	h: Ft
Shoulder:		Street T	ype:		Grade:	0		Lanes:	0
Section Co	omments:								
Work Date	e: 1/1/1999	W	ork Type: New	Construction -	Initial	(	Code: NU-IN	Is Majo	or M&R: True
Last Insp.	<b>Date:</b> 1/9/	2019	Totals	Samples: 1		Survey	ed: 1		
Conditions	s: PCI:	67							
Inspection	Comments	:							
Sample Nu	umber: 10	0 <b>Ty</b>	pe: R	Area	: 4	1552.00 SqFt	PCI: 6	57	
Sample Co	omments:								
52 RA	VELING		L	300.00 Sq	Ft				
57 WE	EATHERING	ì	М	4144.00 Sql					
50 PA'	TCHING		М	108.00 Sq	Ft				
48 L&	& T CR		L	9.00 Ft					

Network	· VDF						Nai	ne: TAN	MPA EXEC	UTIVE AIRPOI	RT				
Branch:	TW J				Name:	TAXI	WAY J		Use:	TAXIWAY	A	rea:	1	05,088 SqFt	
Section:	705		to	f 3		From:	-			То: -				Last Const.:	1/1/1999
Surface:	AC		Family:	C9N	59-RL-T	W-AC	Zor	ne:		Category	<b>/:</b>			Rank: P	
Area:		61,282	2 SqFt		Length	:	1,700	Ft	Width:	35	Ft				
Slabs:			Slab Len	gth:		Ft		Slab Width:		Ft		Joint L	ength:	F	t
Shoulder	:		Street Ty	ype:				Grade: 0				Lanes:	0		
Section C	Comments:														
Work Da	te: 1/1/199	9	W	ork T	ype: Nev	w Constructi	on - Ini	tial	(	Code: NU-IN		Is N	Major I	M&R: True	
Last Insp	<b>. Date:</b> 1/9	9/2019			Total	Samples:	17		Survey	red: 3					
Conditio	ns: PCI:	65													
Inspectio	n Comment	ts:													
Sample N	Number: 1	03	Тур	be:	R	1	Area:	3500	).00 SqFt	PC	[ <b>:</b> 64				
Sample (	Comments:														
48 L	& T CR			L		25.00	Ft								
	AVELING			Ν			SqFt								
	AVELING			L		3465.00	SqFt								
Sample N	umber: 1	08	Тур	be:	R	1	Area:	3500	).00 SqFt	PC	<b>[:</b> 63				
Sample (	Comments:														
48 L	& T CR			Ν	Л	13.00	Ft								
48 L	& T CR			L		340.00	Ft								
52 R.	AVELING			L		3500.00	SqFt								
56 SV	WELLING			L		1.00	SqFt								
Sample N	umber: 1	13	Тур	be:	R	1	Area:	3500	).00 SqFt	PC	[ <b>:</b> 67				
Sample C	Comments:														
57 W	EATHERIN	IG		Ν	Л	3447.00	SqFt								
	& T CR			Ι		69.00	-								
	AVELING			Ι			SqFt								
	ATCHING			Ν			SqFt								

Network:	VDF				Name	TA	MPA EXECU	JTIVE AIRPOR	Г	
Branch:	TW J		Name:	TAXI	WAY J		Use:	TAXIWAY	Area:	105,088 SqFt
Section:	710	0	f 3	From:	-			To: -		Last Const.: 1/1/1999
Surface:	AC	Family:	C9N59-RL-T	W-AC	Zone:			Category:		Rank: P
Area:		31,786 SqFt	Length	:	830 Ft		Width:	35 F	ft	
Slabs:		Slab Len	ıgth:	Ft	S	lab Width:		Ft	Joi	int Length: Ft
Shoulder:		Street Ty	ype:		G	arade: 0			La	<b>nes:</b> 0
Section Co	omments:									
Work Date	e: 1/1/1999	W	ork Type: Nev	w Constructi	on - Initial		С	ode: NU-IN		Is Major M&R: True
Last Insp.	Date: 1/9/2	2019	Tota	Samples:	9		Surveye	ed: 1		
Conditions	s: PCI:	64								
Inspection	Comments:									
Sample Nu	<b>imber:</b> 103	3 Typ	pe: R	A	Area:	350	0.00 SqFt	PCI:	64	
Sample Co	omments:									
52 RA	VELING		L	3495.00	SqFt					
	VELING		М		SqFt					
48 L&	t T CR		L	65.00	Ft					

Network:	VDF				Nam	e: TA	MPA EXECU	UTIVE AIR	PORT		
Branch:	TW J		Name:	TAXIV	VAY J		Use:	TAXIW	AY	Area:	105,088 SqFt
Section:	715	o	f 3	From:				To:	-		Last Const.: 1/1/199
Surface:	AC	Family:	C9N59-RL-T	W-AC	Zone	:		Categ	gory:		Rank: P
Area:		12,020 SqFt	Length:		232 Ft		Width:		35 Ft		
Slabs:		Slab Len	gth:	Ft		Slab Width:		Ft		Joint Lengt	th: Ft
Shoulder:		Street Ty	ype:			Grade: 0				Lanes:	0
Section Co	omments:										
Work Dat	te: 1/1/1999	W	ork Type: New	Constructio	n - Initi	al	C	Code: NU-	IN	Is Majo	or M&R: True
Last Insp.	<b>Date:</b> 1/9/	2019	Totals	Samples:	3		Survey	ed: 1			
Condition	s: PCI:	64									
Inspection	n Comments	:									
Sample N	<b>umber:</b> 10	1 <b>Typ</b>	e: R	A	rea:	350	0.00 SqFt		<b>PCI:</b> 64		
Sample Co	omments:										
52 RA	VELING		L	3495.00	SqFt						
	VELING		М	5.00	-						
48 L&	& T CR		L	34.00	Ft						