FLORIDA DEPARTMENT OF TRANSPORTATION | **AVIATION OFFICE**

2021

Statewide Airfield Pavement Management Program

Airport Pavement Evaluation Report

2IS - Airglades Airport | *District 1*

FDOT

FLP OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

Florida Department of Transportation

Statewide Airfield Pavement Management Program

Airport Pavement Evaluation Report

Prepared by:

FDOT Aviation Office
605 Suwannee Street
Tallahassee, Florida 32399-0450

Website: FDOT Aviation Office

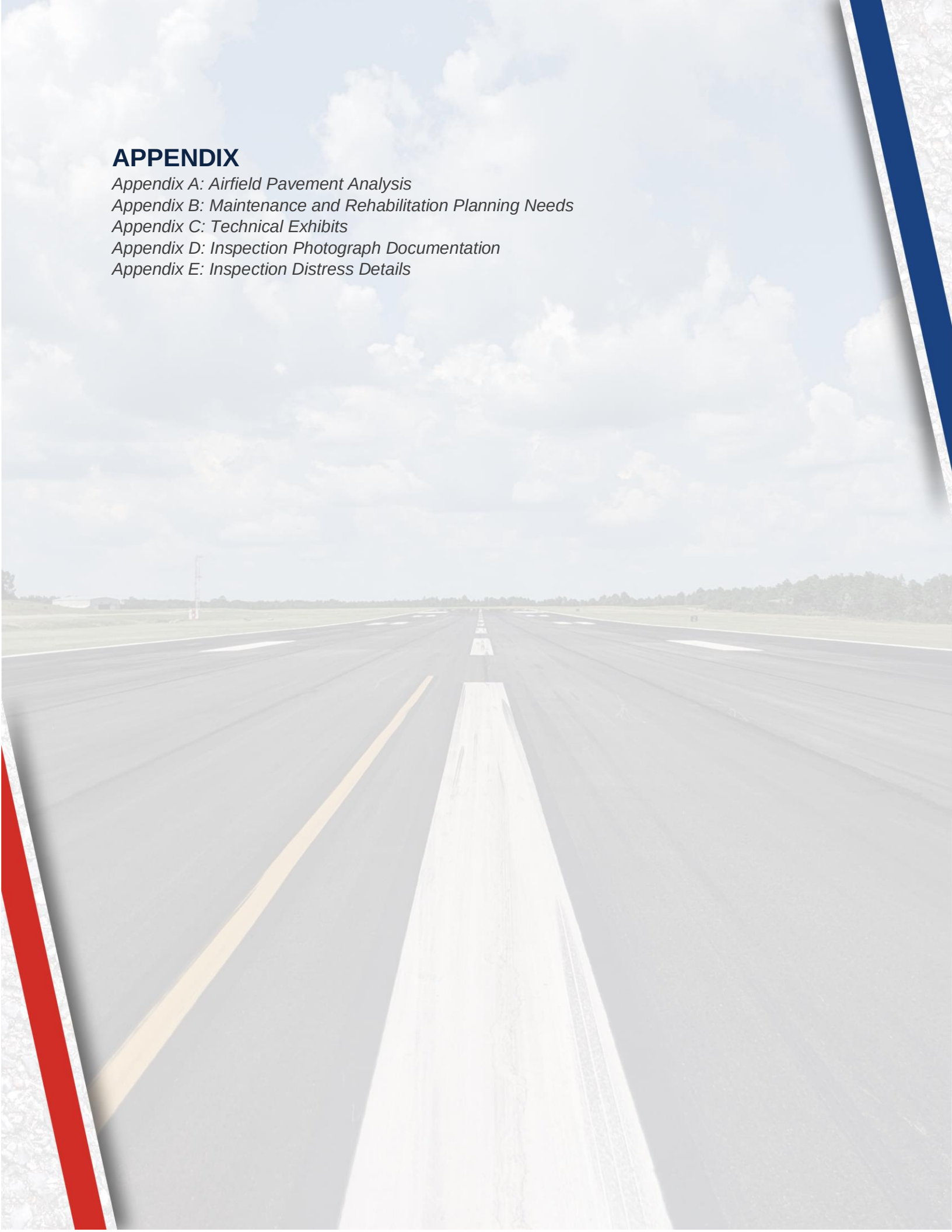
Interactive Web Application: FDOT SAPMP Interactive Web Application

OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

TABLE OF CONTENTS

APPENDIX

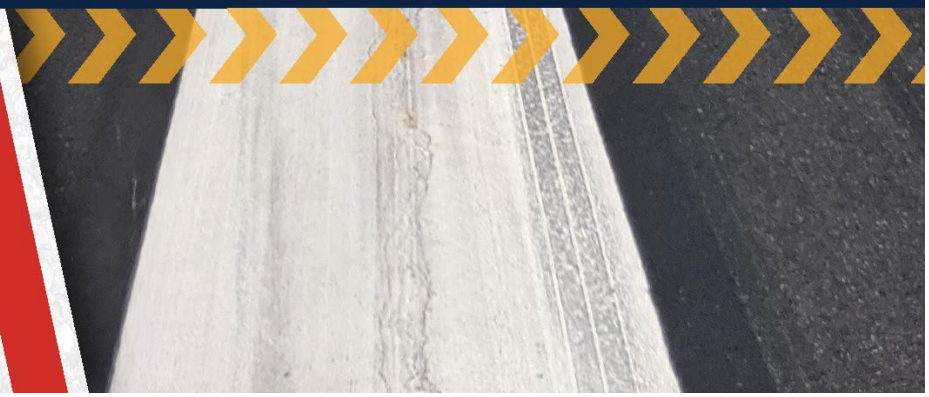
Appendix A: Airfield Pavement Analysis
Appendix B: Maintenance and Rehabilitation Planning Needs
Appendix C: Technical Exhibits
Appendix D: Inspection Photograph Documentation
Appendix E: Inspection Distress Details



LIST OF TABLES

LIST OF FIGURES

Executive Summary



Executive Summary

Program Background

The FDOT Aviation Office (AO) has a mission to provide a safe and secure air transportation system that ensures the mobility of people and goods, enhances economic prosperity, and preserves the quality of our environment and communities. As part of ongoing efforts in fulfilling this mission, the Aviation Office is executing a System Update to the Statewide Airfield Pavement Management Program (SAPMP). This work is to be completed from fiscal year 2020 through fiscal year 2021. The scope of the SAPMP encompasses 95 public-use airport facilities distributed throughout the seven (7) participating FDOT Districts. Airglades Airport's System Update results 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 FAA Advisory Circular 150/5380-7B "Airport Pavement Management Program (PMP)" using the procedures documented in ASTM D5340-12 **"**Standard Test Method for Airport Pavement Condition Index Surveys".

The PCI methodology provides a means for systematically assessing pavement condition and provides an indication of the degree of maintenance, repair, rehabilitation, or reconstruction efforts required to sustain functional pavement conditions. Pavement deterioration, in accordance with ASTM D5340-12, is characterized in terms of distinct distress types, distress severity levels, and quantity of distress. This information is utilized to calculate a PCI value ranging from 0 to 100, which provides an indication of the overall condition of the pavement, with "100" indicating a pavement in new condition and "0" indicating a failed pavement section as graphically depicted in **Figure E.1**.

Figure E.1: PCI Rating

Color	Range	Condition Rating
	86-100	Good
	71-85	Satisfactory
	56-70	Fair
	41-55	Poor
	26-40	Very Poor
	11-25	Serious
	0-10	Failed

Current Pavement Conditions

In October 2020, approximately 1.3 million square feet of pavement was assessed as part of the airside pavement network PCI survey at Airglades Airport (2IS). In general, airfield pavements at 2IS are in Fair condition with an area-weighted PCI of 62. The area-weighted average PCI values of the runways, taxiways, and aprons are 88, 57, and 36, respectively. **Figure E.2** and **Table E.1** summarize the current PCI values for 2IS.

Figure E.2: Latest Condition Summary – Branch-Level

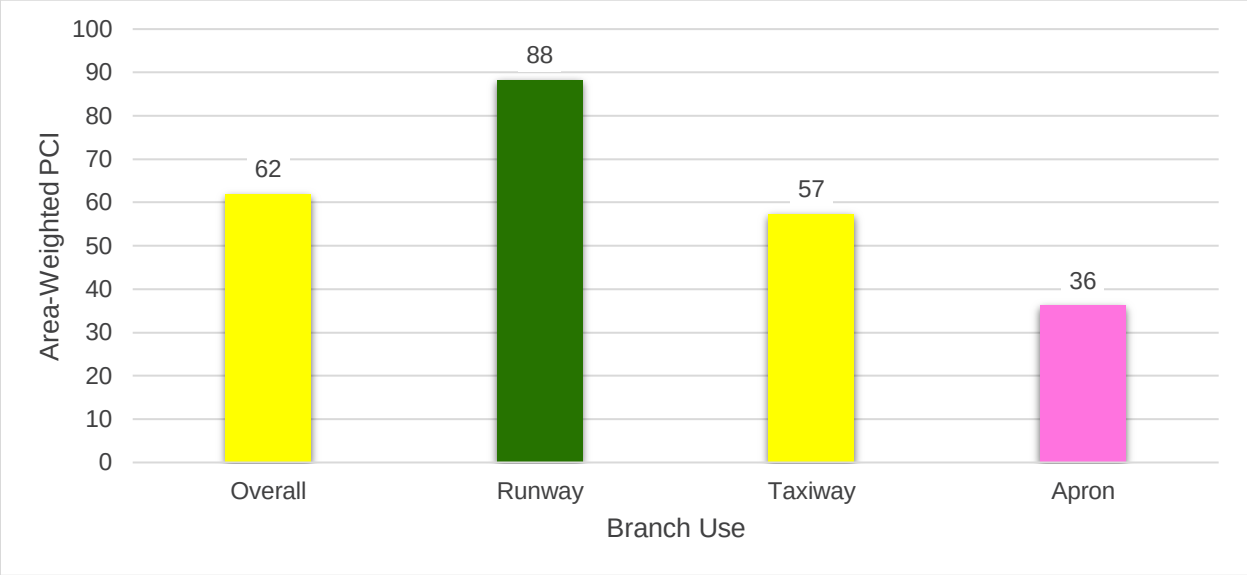


Table E.1: Pavement Condition Index Summary (Current PCI Survey) – Section Level

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
2IS	RW 13-31	Runway	6103	114,068	87	Good
2IS	RW 13-31	Runway	6105	225,000	90	Good
2IS	RW 13-31	Runway	6110	106,482	86	Good
2IS	TW A	Taxiway	103	74,342	59	Fair
2IS	TW A	Taxiway	105	37,814	74	Satisfactory
2IS	TW A	Taxiway	120	13,720	86	Good
2IS	TW A	Taxiway	125	109,989	61	Fair
2IS	TW A1	Taxiway	104	26,288	69	Fair
2IS	TW A1	Taxiway	110	2,235	77	Satisfactory
2IS	TW A2	Taxiway	205	4,599	83	Satisfactory
2IS	TW A2	Taxiway	210	38,437	54	Poor
2IS	TW A2	Taxiway	215	41,410	36	Very Poor
2IS	TW A3	Taxiway	410	34,501	64	Fair
2IS	TW A3	Taxiway	415	6,096	85	Satisfactory
2IS	TW AP E	Taxiway	710	15,760	59	Fair
2IS	TW AP W	Taxiway	305	2,718	43	Poor
2IS	TW HANG	Taxiway	405	33,514	13	Serious
2IS	TW HANG	Taxiway	407	3,153	85	Satisfactory
2IS	TW S	Taxiway	605	45,015	58	Fair
2IS	AP E	Apron	4505	102,944	35	Very Poor
2IS	AP HANG	Apron	4205	6,912	9	Failed
2IS	AP HANG	Apron	4210	14,280	82	Satisfactory
2IS	AP HANG	Apron	4215	2,850	84	Satisfactory
2IS	AP NW	Apron	4405	52,932	43	Poor
2IS	AP NW	Apron	4410	2,604	8	Failed
2IS	AP S	Apron	4305	59,100	23	Serious
2IS	AP W	Apron	4105	89,758	31	Very Poor
2IS	AP W	Apron	4110	14,618	54	Poor
2IS	AP W	Apron	4115	23,595	46	Poor

Forecasted Pavement Conditions

Table E.2 provides section-level details for PCI forecasts. Pavement condition forecasts should be used for planning purposes only, as actual condition of sections is subject to the sensitivities in changes of traffic and maintenance frequency.

The estimation of forecasted PCI values gives no assurance of future pavement conditions as PCI values represent an engineering estimation to be used as a planning tool. Forecasted PCI data should not be the sole metric for determining the year in which a project should be planned. Design-level planning should be undertaken by the responsible engineer prior to the development of airfield design plans.

Table E.2: Forecasted PCI Values 2021-2030 – Section-Level

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI									
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2IS	RW 13-31	6103	87	86	84	82	80	78	76	74	72	70	68
2IS	RW 13-31	6105	90	89	87	86	84	82	81	79	78	76	75
2IS	RW 13-31	6110	86	85	83	81	79	77	75	73	71	69	67
2IS	TW A	103	59	59	57	56	54	52	51	49	47	44	42
2IS	TW A	105	74	74	72	71	70	69	67	66	65	64	63
2IS	TW A	120	86	85	83	81	80	78	77	75	74	72	71
2IS	TW A	125	61	61	60	59	59	58	57	57	56	56	55
2IS	TW A1	104	69	69	67	66	65	64	63	62	60	59	58
2IS	TW A1	110	77	76	75	73	72	71	70	68	67	66	65
2IS	TW A2	205	83	82	80	79	77	76	74	73	71	70	69
2IS	TW A2	210	54	53	52	50	48	46	43	41	38	36	33
2IS	TW A2	215	36	36	35	34	32	31	30	28	27	26	24
2IS	TW A3	410	64	64	63	62	61	60	60	59	58	58	57
2IS	TW A3	415	85	84	82	81	79	77	76	74	73	72	70
2IS	TW AP E	710	59	59	58	58	57	57	56	55	55	54	54
2IS	TW AP W	305	43	42	39	37	34	31	27	24	21	18	15
2IS	TW HANG	405	13	11	8	5	2	0	0	0	0	0	0
2IS	TW HANG	407	85	84	82	81	79	77	76	74	73	72	70
2IS	TW S	605	58	58	57	57	56	56	55	55	54	54	53
2IS	AP E	4505	35	35	35	34	34	33	33	32	31	31	30
2IS	AP HANG	4205	9	9	8	7	6	5	4	3	2	1	0
2IS	AP HANG	4210	82	81	79	77	76	74	72	71	69	68	66
2IS	AP HANG	4215	84	84	83	82	81	80	79	78	77	76	75
2IS	AP NW	4405	43	43	43	42	42	41	41	40	40	39	39
2IS	AP NW	4410	8	8	7	6	5	4	3	2	1	0	0
2IS	AP S	4305	23	22	21	19	18	16	15	13	11	10	8
2IS	AP W	4105	31	30	29	27	26	24	23	21	19	18	16
2IS	AP W	4110	54	54	53	52	51	50	49	48	47	46	45
2IS	AP W	4115	46	46	45	45	44	44	43	43	42	42	41

Major Rehabilitation Planning 2021-2030

Localized maintenance and repair policies identified within this report are categorized as preventive or stopgap based on FDOT SAPMP and FAA maintenance policies and recommendations. Major rehabilitation is identified within the FDOT SAPMP as a major construction activity that results in a reset of a pavement section's PCI to a value of 100. Major rehabilitation activities can include mill and Asphalt Concrete (AC) overlay, Portland cement concrete (PCC) pavement repair and slab replacement, and full-depth reconstruction. It is recommended that the Airport use this report as a planning tool for future project development and prioritization. Localized maintenance, repair, and major rehabilitation recommendations should be considered as planning-level only. Final localized maintenance, repair, and major rehabilitation recommendations are subject to change based on Airport prioritization and further design-level evaluations.

Based on FAA Order 5100.38D Change 1 Airport Improvement Program (AIP) Handbook (February 26, 2019), a substantial update to the FDOT SAPMP policy on identifying major rehabilitation work has been incorporated in this System Update. In previous System Updates, major rehabilitation had been identified for pavement sections below a PCI Value of 65; based on the thresholds identified by the FAA in the AIP Handbook, major rehabilitation will be identified for pavement sections below a PCI value of 70.

The results of the maintenance, repair, and major rehabilitation analysis identified approximately $9.31M in major rehabilitation needs for the 10-year forecast period. Year 1 major needs are $7.35M and localized maintenance needs for Year 1 are $0.16M.

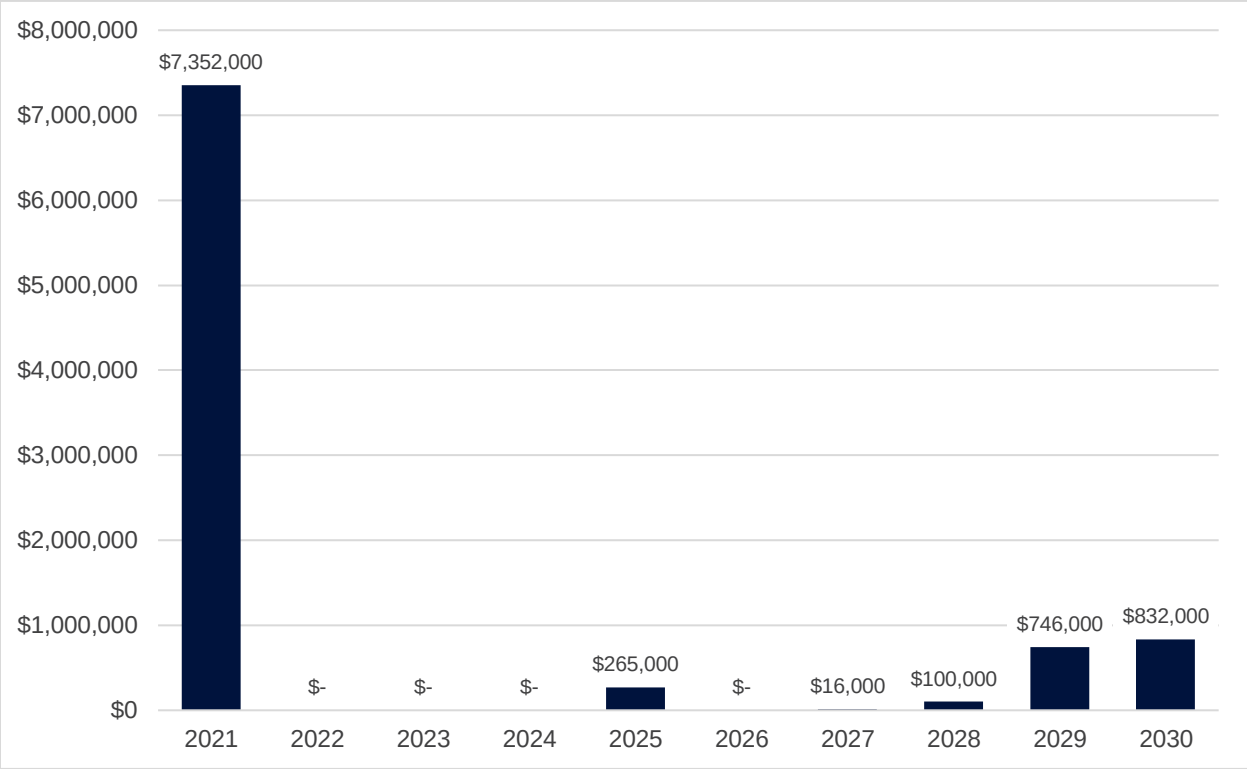
Table E.3: Major Rehabilitation Planning 2021-2030

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2021	**2IS**	TW A	103	AAC	74,342	59	AC Rehabilitation	$ 521,000
2021	**2IS**	TW A	125	AC	109,989	61	AC Rehabilitation	$ 770,000
2021	**2IS**	TW A1	104	AAC	26,288	69	AC Rehabilitation	$ 185,000
2021	**2IS**	TW A2	210	AAC	38,437	53	AC Reconstruction	$ 404,000
2021	**2IS**	TW A2	215	AC	41,410	36	AC Reconstruction	$ 435,000
2021	**2IS**	TW A3	410	AC	34,501	64	AC Rehabilitation	$ 242,000
2021	**2IS**	TW AP E	710	AC	15,760	59	AC Rehabilitation	$ 111,000
2021	**2IS**	TW AP W	305	AAC	2,718	42	AC Reconstruction	$ 29,000
2021	**2IS**	TW HANG	405	AAC	33,514	11	AC Reconstruction	$ 352,000
2021	**2IS**	TW S	605	AC	45,015	58	AC Rehabilitation	$ 316,000
2021	**2IS**	AP E	4505	AC	102,944	35	AC Reconstruction	$ 1,081,000
2021	**2IS**	AP HANG	4205	PCC	6,912	9	PCC Reconstruction	$ 154,000
2021	**2IS**	AP NW	4405	AC	52,932	43	AC Reconstruction	$ 556,000
2021	**2IS**	AP NW	4410	PCC	2,604	8	PCC Reconstruction	$ 58,000
2021	**2IS**	AP S	4305	AAC	59,100	22	AC Reconstruction	$ 621,000
2021	**2IS**	AP W	4105	AAC	89,758	30	AC Reconstruction	$ 943,000
2021	**2IS**	AP W	4110	PCC	14,618	54	PCC Reconstruction	$ 326,000
2021	**2IS**	AP W	4115	AC	23,595	46	AC Reconstruction	$ 248,000
2025	**2IS**	TW A	105	AAC	37,814	69	AC Rehabilitation	$ 265,000

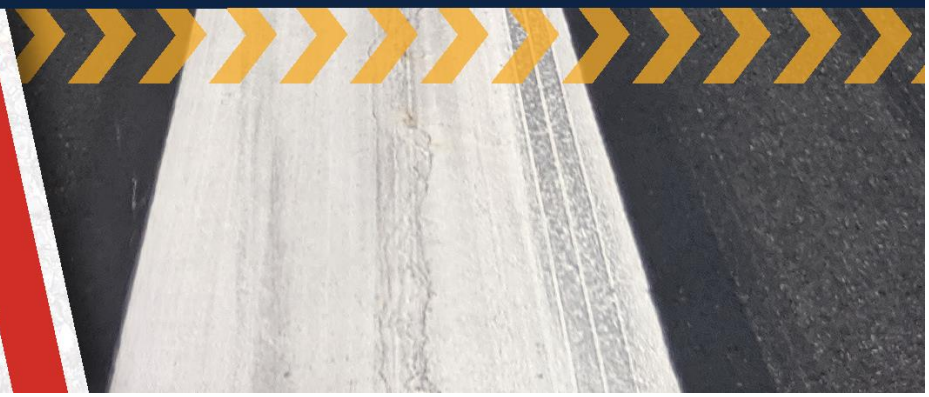
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2027	**2IS**	TW A1	110	AC	2,235	68	AC Rehabilitation	$ 16,000
2028	**2IS**	AP HANG	4210	AC	14,280	69	AC Rehabilitation	$ 100,000
2029	**2IS**	RW 13-31	6110	AAC	106,482	69	AC Rehabilitation	$ 746,000
2030	**2IS**	RW 13-31	6103	AAC	114,068	68	AC Rehabilitation	$ 799,000
2030	**2IS**	TW A2	205	AC	4,599	69	AC Rehabilitation	$ 33,000

**All planning cost values have been rounded up to the nearest thousand dollars.*

Figure E.3: Major Rehabilitation Planning Annual Budget 2021-2030



Chapter 1: Introduction



Chapter 1 – Introduction

The State of Florida has 128 public airports, 100 of which are recognized as part of the Federal Aviation Administration's (FAA) National Plan of Integrated Airport Systems (NPIAS). These public-use airports are vital to Florida's economy as well as the economy of the United States. The Florida Airport 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 State as air travel is essential to tourism, Florida's most prominent industry.

1.1 Background

In 1992, the Florida Department of Transportation (FDOT) established the Statewide Airfield Pavement Management Program (SAPMP) to provide program managers, District Aviation Offices, and Airport operators with a system to proactively manage airfield pavement infrastructure within the FAS. The SAPMP includes network-level Pavement Condition Index (PCI) surveys for Airport facilities that are categorized as GA, Reliever (RL), and Commercial (PR). Currently, the SAPMP includes 95 participating public-use airports with pavement facilities and provides its users with comprehensive data to better manage their pavement assets.

There are millions of square feet of pavement infrastructure at airports across a network of runways, taxiways, aprons, and other areas. This pavement infrastructure is vital to the support and safety of aircraft operations. Timely maintenance, repair, and major rehabilitation of pavement infrastructure allows the Airport to operate safely, efficiently, and economically without excessive down time.

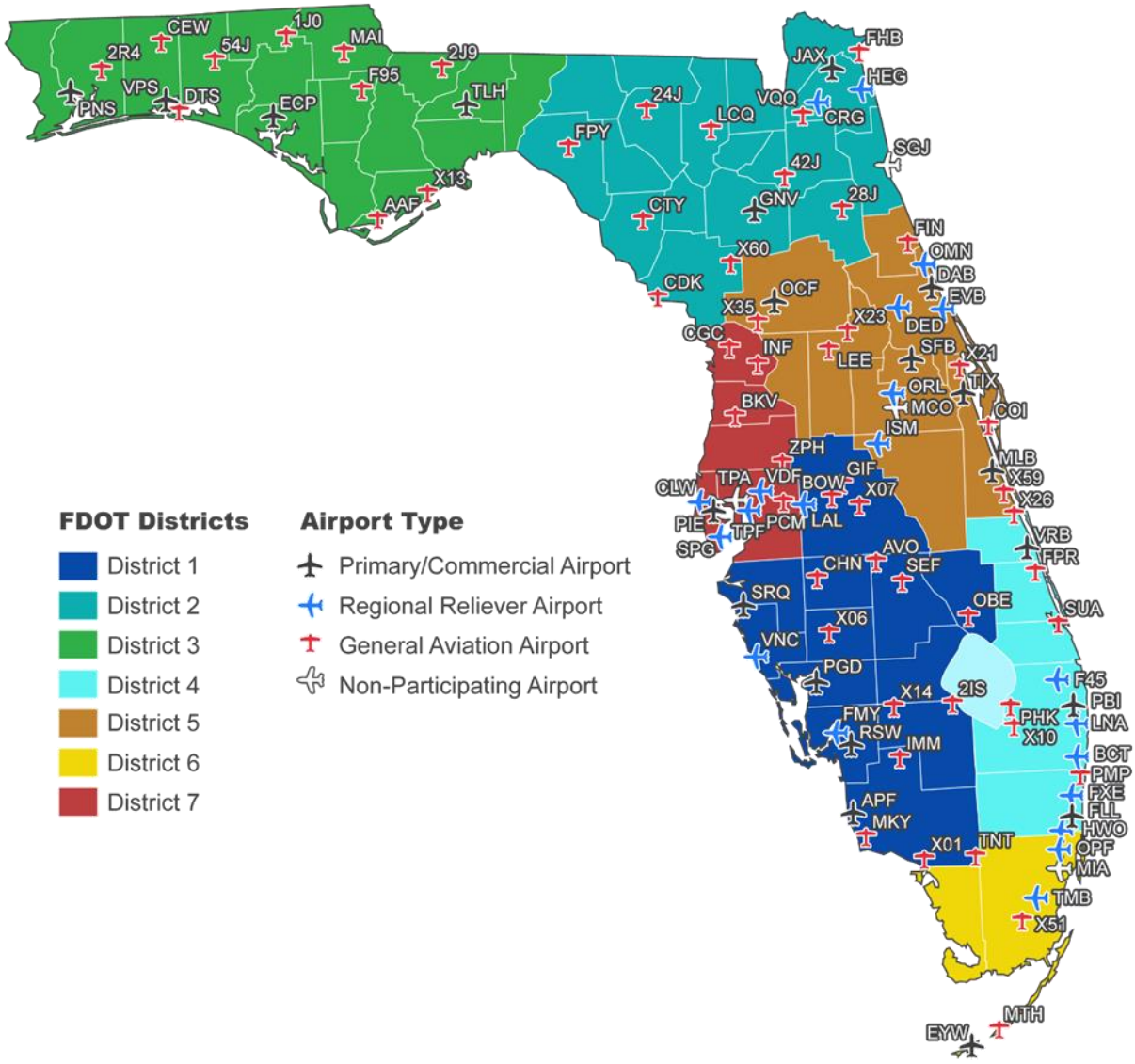
Airports participating in the Airport Improvement Program (AIP) Grant Program are required by the FAA to develop and implement a pavement maintenance program in order to be eligible for funding per FAA Advisory Circular 150/5380-6C "Guidelines and Procedures for Maintenance of Airport Pavements" and 150/5380-7B "Airport Pavement Management Program (PMP)". The AIP program requires detailed assessments of airfield pavements at least once a year for a pavement management program. The frequency of the detailed inspections may be extended to every three years if the pavement is assessed according to the PCI survey procedure described in ASTM D5340-12 "Standard Test Method for Airport Pavement Condition Index Surveys".

In general, adherence to the FAA Advisory Circulars is mandatory for 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." The FDOT performs the SAPMP System Updates for the benefit of participating public-use and publicly-owned airports through the Aviation Office (AO).

The SAPMP addresses the requirements of maintaining an effective pavement management program for 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 knowledge of the pavement facilities that are under consideration for projects. A network-level evaluation can support the identification of

maintenance, repair, and major rehabilitation needs and budgetary planning-level opinions of probable construction costs.

Figure 1.1: Florida Aviation System (Facilities with Pavement) and FDOT Districts



1.2 Stakeholders

Ultimately, the SAPMP is performed for the benefit of the stakeholders. The table below outlines the primary stakeholders of the FDOT SAPMP and their role in the program.

Table 1.2: FDOT SAPMP Stakeholders

Role	Description
FAA Orlando Airports District Office (Orlando ADO)	Key Stakeholder; local ADO Program Manager personnel that oversees the grant administration of AIP grant with Planning Agency Sponsor (Florida Department of Transportation).
Florida Department of Transportation (FDOT)	Key Stakeholder; the FDOT is the "Sponsor" for the AIP grant agreement. Specifically, the Aviation Office (AO) provides development and operations support for the Florida Airport System.
FDOT District Offices	The seven FDOT District Offices, specifically the Aviation representatives, provide essential support to the SAPMP System Update and the AO Program Manager (AO-PM). Each District supports the SAPMP's ongoing efforts by providing local construction cost information throughout the State, which is used as the basis of the development for maintenance, repair, and major rehabilitation opinions of probable construction costs for planning purposes.
Participating Public-Use and Publicly Owned Airports	The airports are the end-user and primary beneficiary of the SAPMP. The SAPMP provides a specific Airport Pavement Evaluation Report that meets the requirements of the FAA AC 150/5380-7B. Individual participating airports are provided a final Airport Pavement Evaluation Report by the Consultant that is specific to each airport's airfield PCI assessment.
Aviation Office Program Manager (AO-PM)	FDOT AO Airport Engineering Manager; oversees and manages the overall Program System Update.

1.3 General Scope of Work

The SAPMP is limited to performing tasks in the adherence to the key elements of an effective pavement management program on a statewide level. The primary tasks undertaken to update the FDOT SAPMP include, but are not limited to:

- Research and evaluation of existing record documentation;
- Establishment of a pavement system inventory;
- Development of a pavement network definition map and supplemental GIS model;
- Functional pavement evaluations via the PCI assessment method;
- Customization of PAVER™ software including prioritization, policies, and performance models;
- Analysis of condition data; and
- Maintenance, repair, and rehabilitation planning.

1.4 FDOT SAPMP Objectives

The SAPMP enables the FDOT AO and FAA to monitor pavement conditions at airports in the Florida Airport System. The SAPMP provides objective condition information needed to make informed decisions regarding the significant capital investment the public-use airport pavement infrastructure represents.

Airport staff are responsible for making decisions regarding the timing and type of maintenance and rehabilitation activities that should be completed in order to maintain an acceptable operational condition and adequate load-carrying capacity. Utilizing the SAPMP will help Airport staff better understand the relative condition of their pavement facilities and when those facilities should be rehabilitated. The data collected from the SAPMP can be used for project programming for the next 10 years. This report summarizes the data collection, analysis, program update, and implementation of the FDOT SAPMP.

A comprehensive SAPMP provides information that assists with the project programming process. The primary objectives of the FDOT SAPMP consist of the following:

- Assist airports in meeting the requirements of Public Law 103-305;
- Assist airports in complying with FAA Grant Assurances 11 and 19;
- Provide airports with functional pavement condition in accordance with ASTM D5340-12 (current) and with the FAA AC 150/5380-7B (current) based on visual assessment efforts;
- Provide airports with planning-level guidance on maintenance, repair, and rehabilitation in accordance with the FAA AC 150/5380-6C (current) based on pavement conditions and distress data in terms of type, severity, and extent; and
- Provide airports, FDOT Districts, FDOT AO, and the FAA Airports District Office with long-term, planning-level forecasts of pavement performance and rehabilitation budgetary needs (e.g., maintenance, repair, and major reconstruction) through reports.

From a pavement management perspective, one of the most valuable aspects of the PCI methodology is the ability to save money by effectively prioritizing the rehabilitation of pavement assets that have reached critical condition. Critical PCI values are assigned to deterioration models for pavement assets based on their respective use and rank. The concept of critical PCI will be further discussed in **Chapter 5**, but it is used as a benchmark to help identify pavement assets that should receive rehabilitation. In doing so, the PCI methodology can help create a proactive maintenance and rehabilitation (M&R) strategy to effectively address pavement projects before the cost of these projects increases significantly.

With M&R costs escalating over time, the consequences of inadequate maintenance practices can result in an inefficient allocation of funding. If maintenance is conducted before a significant decline in pavement condition occurs, substantial repair and/or rehabilitation costs may be avoided or delayed. **Figure 1.4** illustrates how the cost of pavement repairs can significantly increase if M&R activities are delayed.

Figure 1.4: Typical Pavement Condition Life Cycle

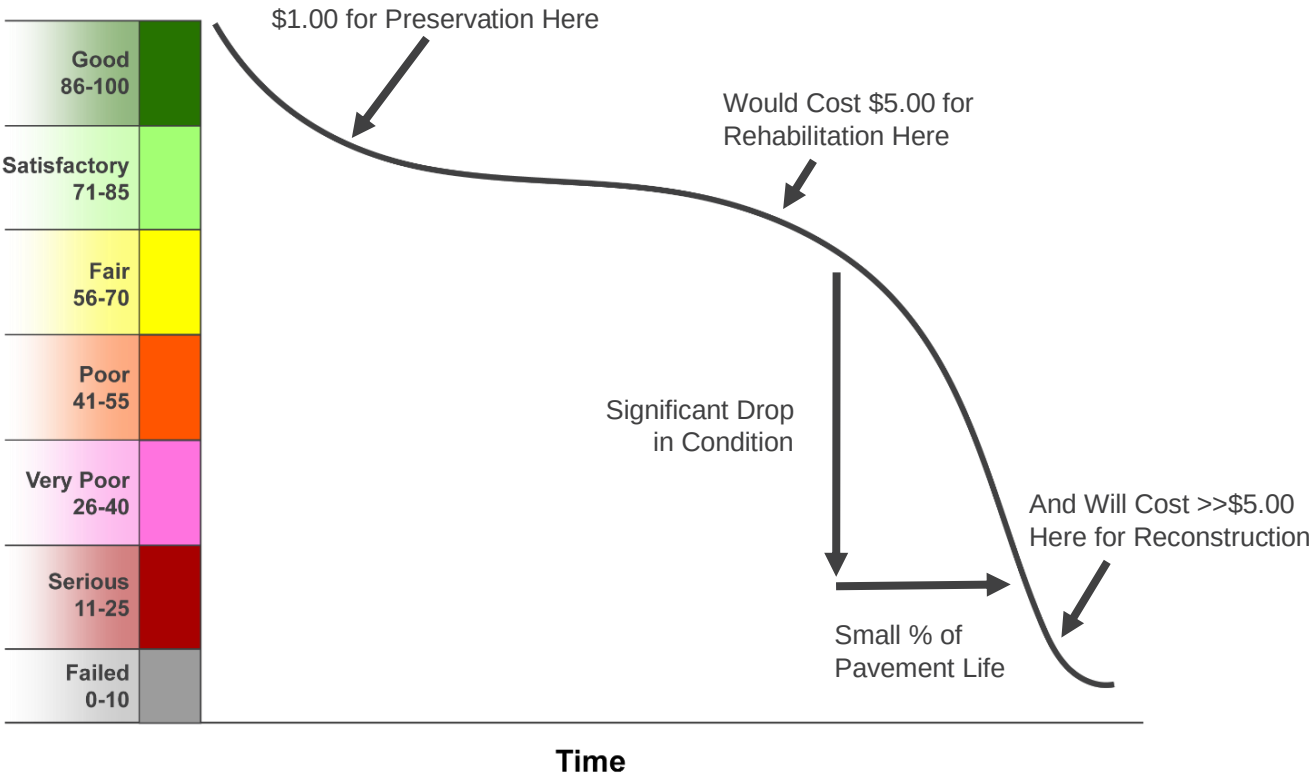
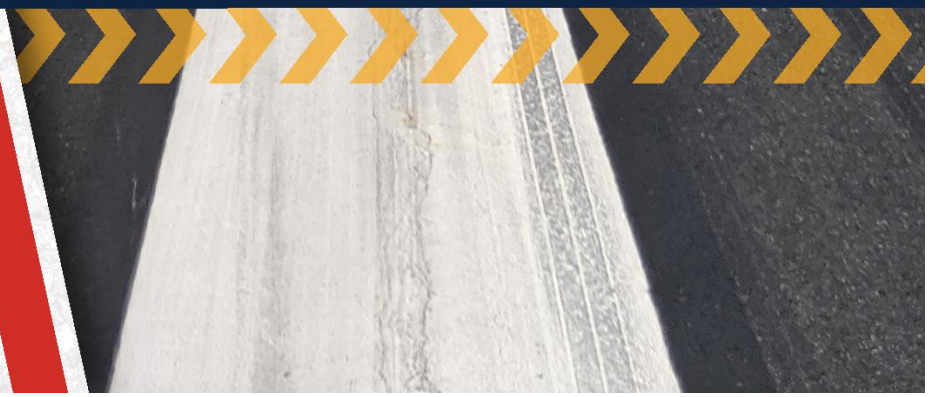


**Figure is for conceptual purposes only – unit costs are not specific to airfield pavements.*

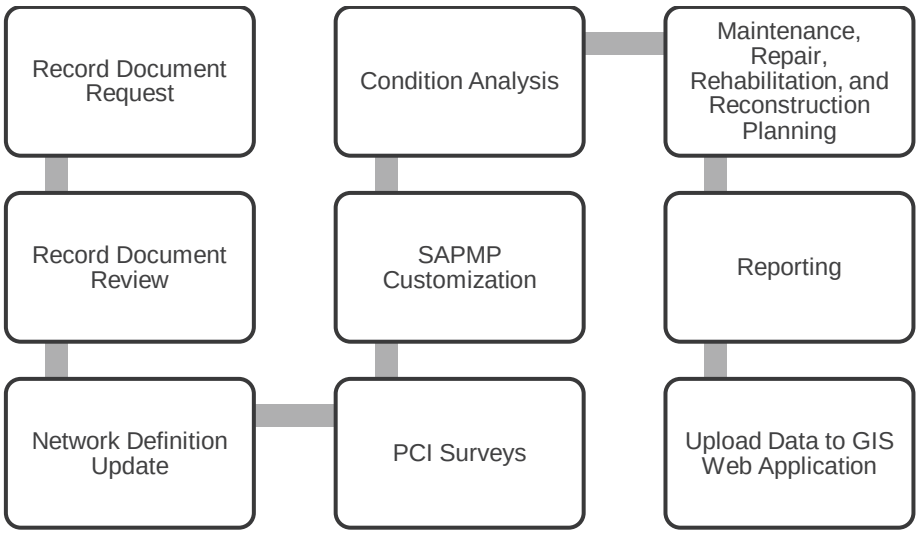
Chapter 2: Methodology



Chapter 2 – Methodology

An effective pavement management program incorporates both 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 AC 150/5380-7B. **Figure 2** summarizes the overall process for the FDOT SAPMP.

Figure 2: FDOT SAPMP General Process



2.1 Airfield Pavement Database

This SAPMP utilizes PAVER™ 7.0 software as its airfield pavement database. The PAVER™ software application was developed by the U.S. Army Construction Engineering Research Laboratory and sponsored by the FAA, Federal Highway Administration, U.S. Army, U.S. Air Force, and U.S. Navy to meet the objectives of an effective pavement management system. The PAVER™ database includes a network-level inventory of the participating airport's eligible airfield pavement facilities. PAVER™ can achieve the following pavement management objectives:

- Create a manageable inventory system;
- Analyze the current condition of pavements in accordance with the ASTM D5340;
- Develop pavement performance models to forecast conditions; and
- Generate maintenance, repair, and major rehabilitation recommendations based on budgetary scenarios.

PAVER™ inventory management is based on a tiered organizational structure consisting of networks, branches, sections, and samples, with the sample being the smallest unit of management. Critical elements of an effective pavement management program are maintained within the network-level PAVER™ database and typically consist of pavement inventory

characteristics, pavement structure, work history, historic condition records, and analytical customization.

2.2 Airfield Pavement Record Keeping (Historical Records Research)

In accordance with the FAA AC 150/5380-7B, it is a best practice that airports maintain records of all airfield construction and maintenance related to the pavement facilities. An airport should maintain detailed records of maintenance (routine, emergency, and proactive) activities, which should consist of:

- Location and limits of work;
- Types and severities of repaired distresses;
- Work type and cost; and
- Supporting Documents (e.g., contract documents, construction drawings, specifications, bid tabulations, repair products, photograph records).

As part of the SAPMP, participating airport's staff was asked to provide documentation regarding the historical work performed at the Airport, including construction drawings and bid tabulations. This information is used to identify location, limits, type of work, pavement cross-sections, and representative material costs.

Updated historical data collected during this task was entered into the PAVER™ database. This database includes the following fields for historical information:

- Date of last construction/rehabilitation
- Work type performed
- Comments for documenting pavement cross-section
- Pavement surface type
- Section area (limits of work)

The SAPMP PAVER™ database accuracy is limited to the record documentation provided by the participating airports. Airport Sponsors should rely on this information as a planning tool and defer to final as-built plans, record drawings, and/or engineer's construction report for pavement construction records.

2.3 Airfield Pavement Structure

A pavement is a prepared surface designed to provide a continuous, smooth ride at a certain speed and to support an estimated amount of traffic for a certain number of years. A pavement structure is composed of constructed layers consisting of subgrade, subbase, base, structural, and surface courses. For the FDOT SAPMP, two (2) predominant pavement types are classified for evaluation and analysis: Asphalt Concrete (AC) and Portland cement concrete (PCC). Composite Structures, known as Whitetopping Pavements consisting of PCC on AC, are also present at limited airports in Florida and are evaluated separately.

Asphalt Concrete

Asphalt concrete is a pavement comprised of aggregate mixture with an asphalt cement binder. The FDOT SAPMP categorizes 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. Airfield pavement sections are considered to be AAC when a pavement rehabilitation includes a pavement milling and resurfacing operation 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 PCC pavement section. This unique pavement composition may result in distinct pavement distress manifestations known as reflective joint cracking.

Portland Cement Concrete

Portland cement concrete is a pavement comprised of aggregate mixture with a Portland cement binder. The FDOT SAPMP categorizes 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 provides a texture of nonskid qualities, prevents the infiltration of surface water into the subgrade, and provides structural support for airplane loading. Rigid pavement construction requires the layout of appropriately designed joints. Concrete overlays built in accordance with the FAA Advisory Circular 150/5320-6F “Airport Pavement Design and Evaluation” are recognized as PCC pavement.

Composite Structure – Whitetopping Pavement

Whitetopping pavement is a composite pavement comprised of relatively thin PCC overlaid on an existing AC 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 AC pavement section. The modified PCC layer is typically greater than 6 inches in thickness.

Thin Whitetopping (TWT)

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

Ultra-Thin Whitetopping (UTW)

A composite pavement structure consisting of a modified PCC overlaid on an existing AC pavement section. The modified PCC layer is typically between 2 and 4 inches in thickness.

2.4 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 from aircraft loading and environmental conditions.

This System Update does not involve a study or analysis of 2IS's aircraft fleet mix or traffic operations. However, it is strongly recommended that the Airport incorporate the requirements of the FAA AC 150/5320-6F when developing design-level rehabilitation activities; this AC provides guidance on incorporation of aircraft traffic fleet mix data.

2.5 Pavement Management Program Network Definition Terminology

To facilitate an effective pavement management program, a pavement network must be established and subdivided into smaller, manageable working units called samples. Sectioning of the pavement network was established in a prior System Update and was revised during this SAPMP to account for work that has been performed on the airfield since the previous update. Information from historic records is used to help define the limits of the smaller working units. A critical input for a pavement inventory and network definition is the date of last major construction or rehabilitation, as this type of work will reset the PCI to a value of 100 and reestablish limits for the samples.

The following sections define the common terms used in pavement management systems and cover their application for this SAPMP System Update.

2.5.1 Pavement Network Identification

Establishing the pavement network is the first step in organizing pavements into a structure for pavement management. The network is the starting point of the hierarchy of pavement management organization. A network typically consists of one or more pavement *branches*, which have one or more pavement *sections*. 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.

2.5.2 Pavement Branch Identification

A pavement branch, also known as a facility, is a logical unit of generally identifiable pavement within a network that has a distinct functional classification. For example, within an airfield, each runway, taxiway, or apron is considered a branch. Each branch contains at least one section but may contain more if pavement feature characteristics are distinct throughout the branch.

2.5.3 Pavement Section Identification

A pavement section, or feature, is a subdivision of a branch and has consistent characteristics throughout its length or area. These characteristics include structural composition (pavement layer material type and thickness), construction history, age, traffic type, traffic frequency, and pavement condition. A section is the basic management unit of a pavement network and is the level at which maintenance, repair, or major rehabilitation treatments are considered.

2.5.4 Pavement Sample Unit Identification

A pavement sample unit is an arbitrarily defined subdivision of a pavement section that has a standard size range of 20 contiguous slabs (±8 slabs) for PCC pavement and 5,000 contiguous square feet (±2,000 SF) for AC. A sample unit is the smallest subdivision of a pavement network and is analyzed during field assessments to establish condition ratings.

2.5.5 Terminology Summary

Below is a summary table, **Table 2.5.5**, with definitions and examples of common SAPMP terminology.

Table 2.5.5: SAPMP Terminology

SAPMP Terminology	Common Definition	Airport Example
Network	Totality of 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" "Runway 18-36", Runway Facility
Section ID	Codified identification for pavement asset that is distinct by pavement composition, work history, aircraft loading, or condition.	"6105"
Sample Unit	A numeric identification of an area of pavement (5,000 ± 2,000 SF of AC or 20 ± 8 slabs of PCC) that has been inspected in accordance with ASTM D5340-12.	"300"

2.6 Airfield PCI Survey Methodology

In adherence to the FAA AC 150/5380-7B, the FDOT SAPMP utilizes the PCI survey method to collect pavement distress data and analyze the condition. The PCI survey 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 PCI survey consists primarily of visual assessments of pavement surfaces for signs of distress and deterioration resulting from loading (aircraft) and environmental influences.

Overall, 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 help identify if any underlying structural deficiencies are present. Although a visual PCI survey does not predict the remaining structural life of a pavement section or its ability to support loads, it does assess the rating of the operational surface. Functional condition, determined by the PCI method, can provide a cost-effective means to plan for pavement rehabilitation projects. 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.

2.6.1 Pavement Distress Types

For each sample, the severity and quantity of defined distresses are recorded and then analyzed in accordance with the ASTM D5340-12 standard, which identifies 17 AC distress types and 16 PCC distress types. **Tables 2.6.1 (a) and 2.6.1 (b)** identify these distresses and their common causes or mechanisms.

Table 2.6.1 (a): Pavement Distress Types – Asphalt Concrete

Distress Mechanism	Distress Type
Load	Alligator Cracking Rutting
Climate/Durability	Block Cracking Joint Reflection Cracking Longitudinal and Transverse Cracking (LT) Raveling Shoving Weathering
Construction/Material	Bleeding Corrugation Depression Polished Aggregate Slippage Cracking Swelling
Other	Jet Blast Erosion Oil Spillage Patching and Utility Cut Patching

Table 2.6.1 (b): Pavement Distress Types – Portland Cement Concrete

Distress Mechanism	Distress Type
Load	Corner Break Longitudinal, Transverse, and Diagonal Cracking (LTD) Pumping Shattered Slab/Intersecting Cracks
Climate/Durability	Blowup Durability "D" Cracking Joint Seal Damage Popouts
Construction/Material	Alkali Silica Reaction (ASR) Scaling Shrinkage Cracking
Other	Corner Spalling Joint Spalling Large Patching and Utility Cut Settlement or Faulting Small Patching

2.6.2 PCI Survey Procedures

PCI surveys are conducted on sample units defined in previous System Updates. Sample units are subject to change at the discretion of field personnel and/or to major pavement rehabilitation treatments. Furthermore, access to sample units based on accessibility or operational impacts may affect the overall sampling rate effort at each airport. **Tables 2.6.2 (a) and (b)** define the sampling criteria used by the FDOT SAPMP. A higher sampling rate may be utilized to achieve greater statistical confidence, should the Airport have the available resources to perform PCI survey independent of the FDOT SAPMP.

Table 2.6.2 (a): Recommended Sampling Rates for Asphalt Concrete

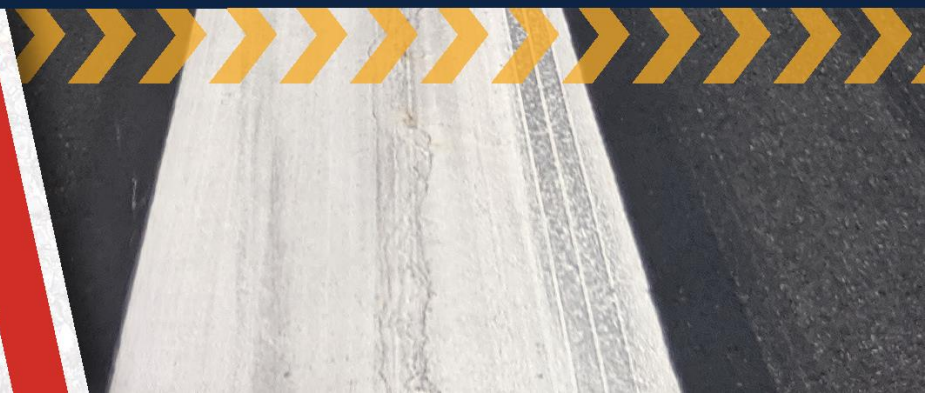
Number of Total Sample Units in Section	Sample Units to Inspect	
	Runways	Taxiways, Aprons, and Others
1 - 4	1	1
5 - 10	2	1
11 - 15	3	2
16 - 30	5	3
31 - 40	7	4
41 - 50	8	5
51 or more	20% but ≤ 20	10% but ≤ 10

Table 2.6.2 (b): Recommended Sampling Rates for Portland Cement Concrete

Number of Total Sample Units in Section	Sample Units to Inspect	
	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

The FDOT SAPMP is limited to select sample units for each section identified in each airport's Airfield Pavement Network Definition. The intent is to perform a limited amount of sample unit PCI survey to reasonably reflect the functional condition. Due to the limited sampling criteria, there may be instances of pavement distress and deterioration outside of the inspected sample units that were not observed.

Chapter 3: Airfield Pavement System Inventory



Chapter 3 – Airfield Pavement System Inventory

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 of 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

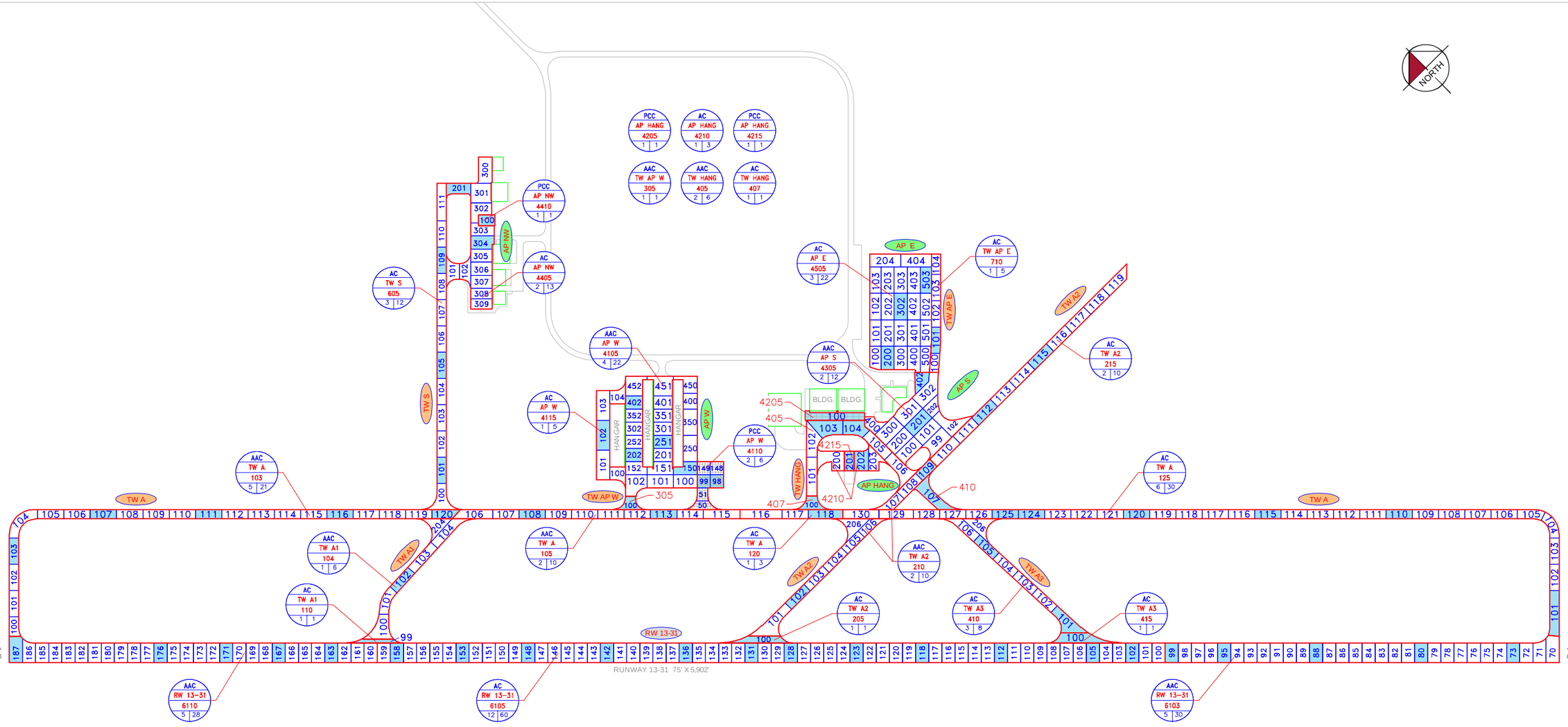
Based on information provided by the Airport, **Table 3.1.1** summarizes recent or anticipated airfield pavement construction projects since 2016.

Table 3.1.1: Summary of Previous and/or Anticipated Airfield Pavement Construction

Construction Year	Location	Work Type / Pavement Section
No Information Provided		

The Airport provided a combination of record drawings, reports, and staff input, which aided in developing the construction history of the Airport's pavements since inception. Major rehabilitation and 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 overlay, new construction, and/or complete reconstruction. These pavements were not formally subject to a PCI assessment and actual conditions may vary. Furthermore, any localized maintenance or repair performed in the assessment areas that would improve the PCI are considered in the condition analysis.

Figure 3.1.1 (a), the Airfield Pavement Network Definition Exhibit provides details of the PCI assessment efforts. The exhibit identifies pavement facilities, surface types, section definitions, and sample unit delineations. **Figure 3.1.1 (b)**, the Airfield Pavement System Inventory Exhibit provides details of 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, are confirmed during field surveys.



LEGEND

- RW 13-31 — TYPICAL RUNWAY BRANCH ID
- TW A — TYPICAL TAXIWAY BRANCH ID
- AP S — TYPICAL APRON BRANCH ID
- AAC / AP MAIN / 4105 / 10 | 100 — PAVEMENT SURFACE TYPE; PAVEMENT BRANCH ID; SECTION NUMBER; NUMBER OF SAMPLE UNITS IN SECTION; NUMBER OF SAMPLE UNITS TO BE INSPECTED
- AAC / AP MAIN / 4105 / 0 | 100 — SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.
- 100 — INSPECTED SAMPLE UNITS.

TOTAL SAMPLES INSPECTED = 72
AC: 67 PCC: 5

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

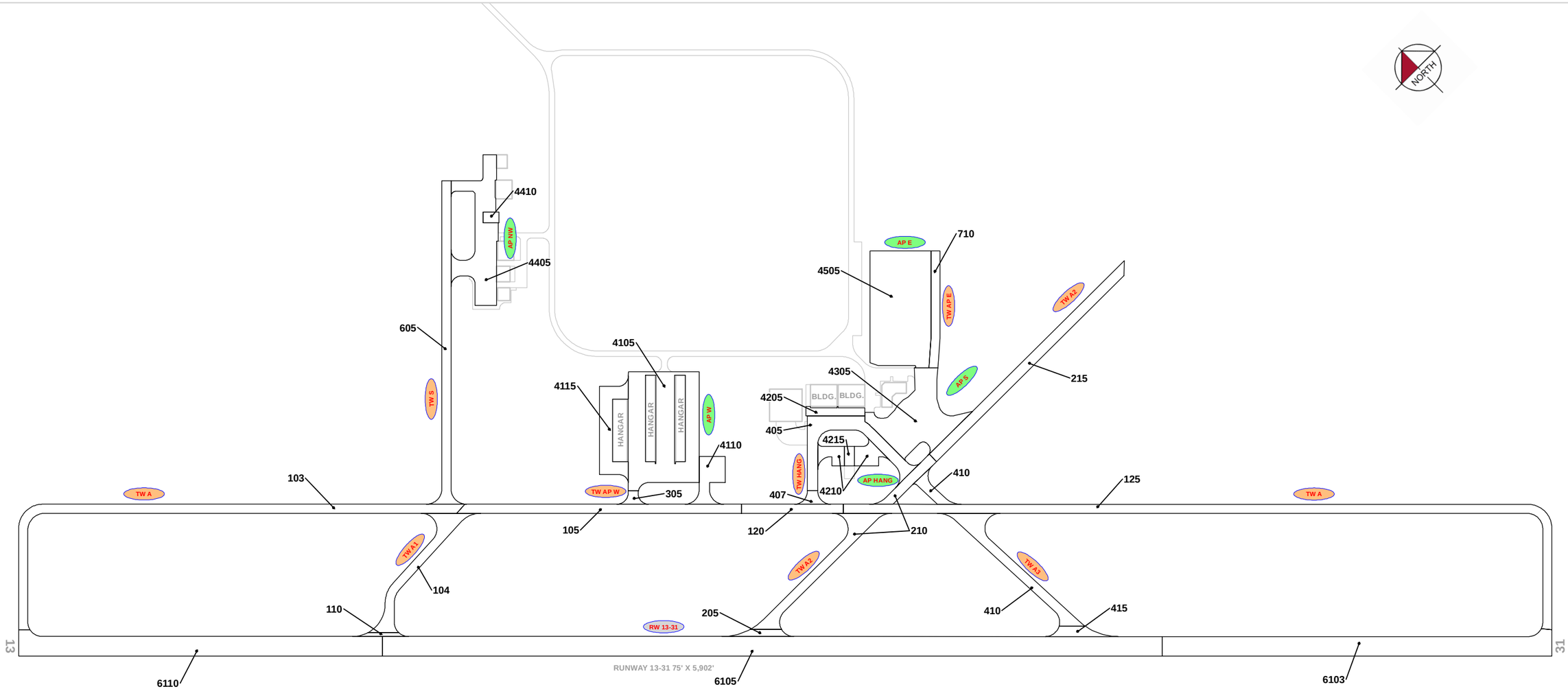
2IS

AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT

Statewide Airfield Pavement Management Program
AIRGLADES AIRPORT

FDOT

2021



RECENT & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
NO INFORMATION PROVIDED		

LEGEND

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

PROJECT YEAR

2016		2021	
2017		2022	
2018		2023	
2019		2024	
2020		2025	

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

AIRFIELD PAVEMENT SYSTEM INVENTORY EXHIBIT

Statewide Airfield Pavement Management Program

AIRGLADES AIRPORT

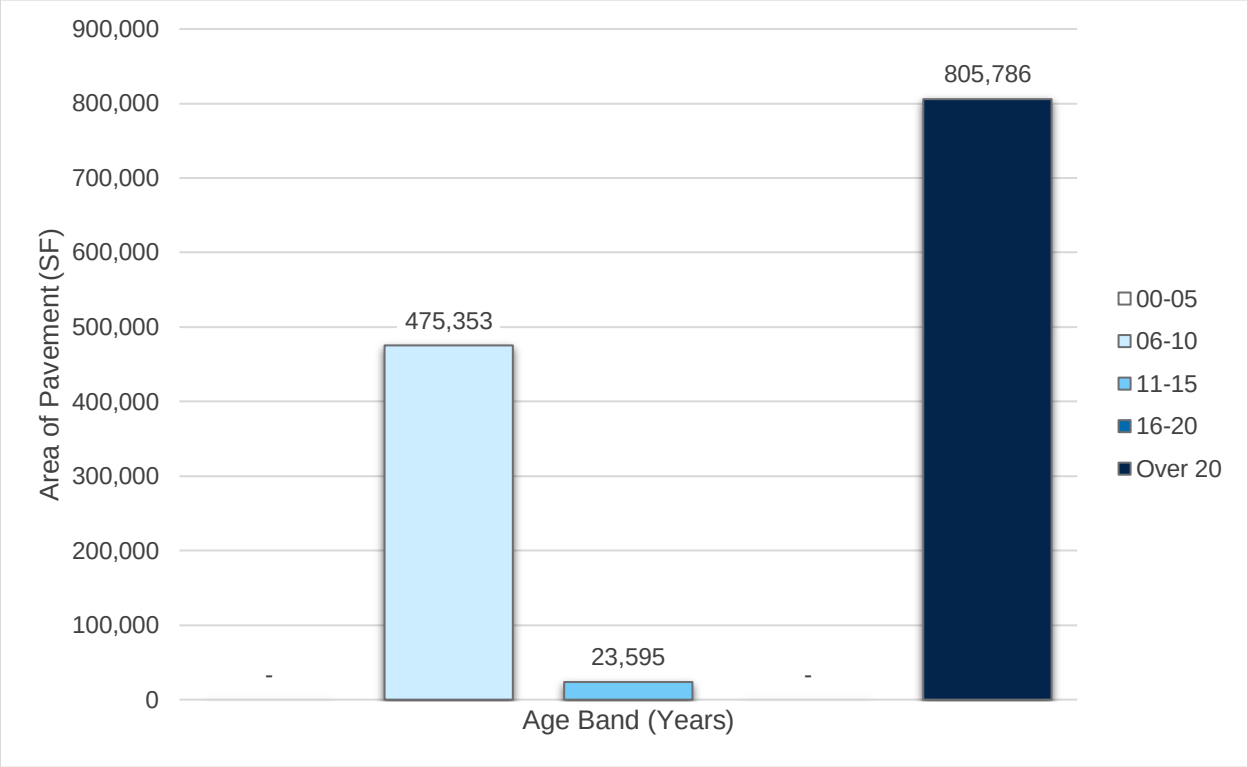
FDOT

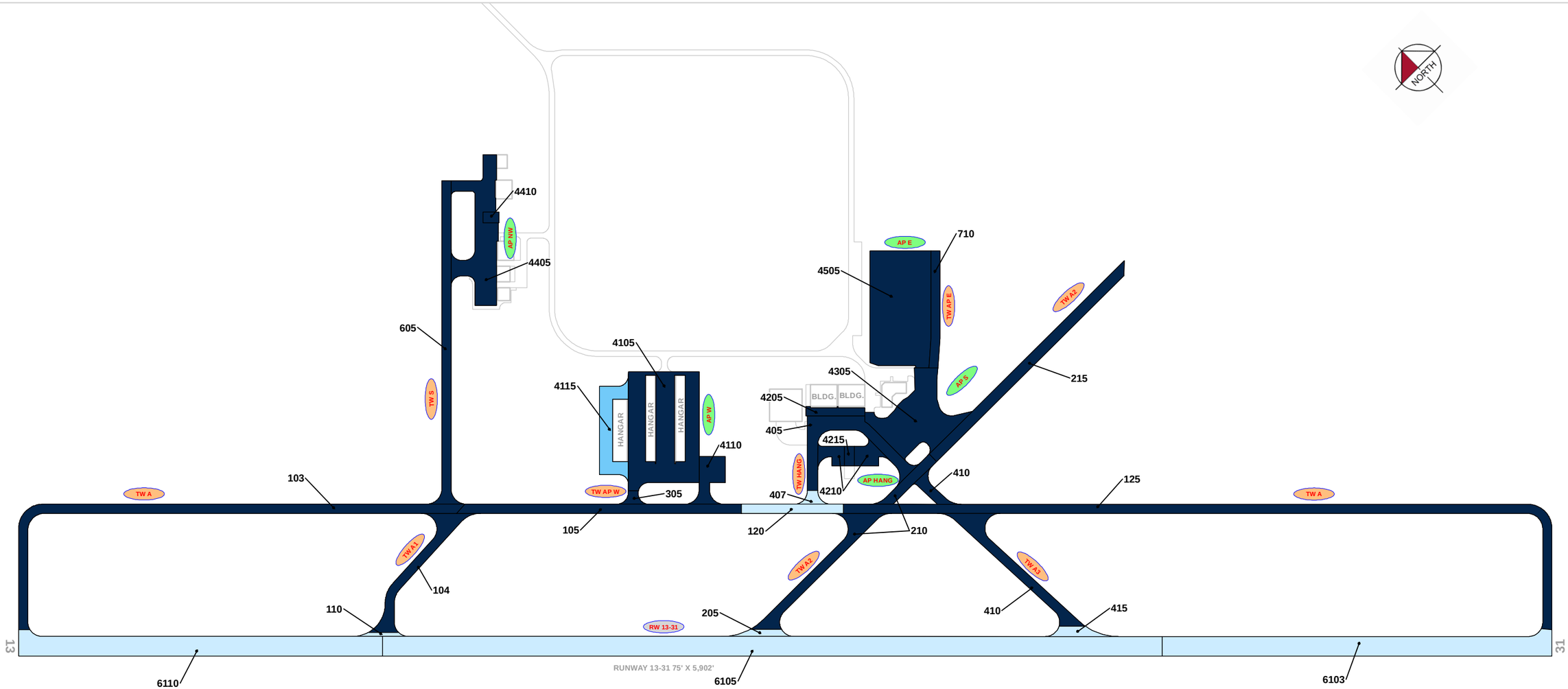
2021

3.1.2 Estimated Pavement Age

Standard pavement design practice considers a design life of 20 years. Design inputs typically require subgrade soil conditions, pavement layer material characteristics, and anticipated loading (aircraft fleet mix) for the design-life period. Based on the review of historic airfield pavement construction activities, **Figure 3.1.2 (a)** summarizes the age of the pavement sections since the last major construction activity has occurred. **Figure 3.1.2 (b)** provides the approximate limits of those age ranges on the airfield pavement facilities. This is intended to be a rough estimate based on interpretation of the limited data available at the time of report. The estimation of pavement age is based on information requested from the Airport.

Figure 3.1.2 (a): Age of Pavements at PCI Survey





LEGEND

RW 13-31 — TYPICAL RUNWAY BRANCH ID

TW A — TYPICAL TAXIWAY BRANCH ID

AP S — TYPICAL APRON BRANCH ID

AGE AT INSPECTION

- 0-5 Years
- 6-10 Years
- 11-15 Years
- 16-20 Years
- > 20 Years

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

AIRFIELD PAVEMENT ESTIMATED AGE EXHIBIT

Statewide Airfield Pavement Management Program

AIRGLADES AIRPORT

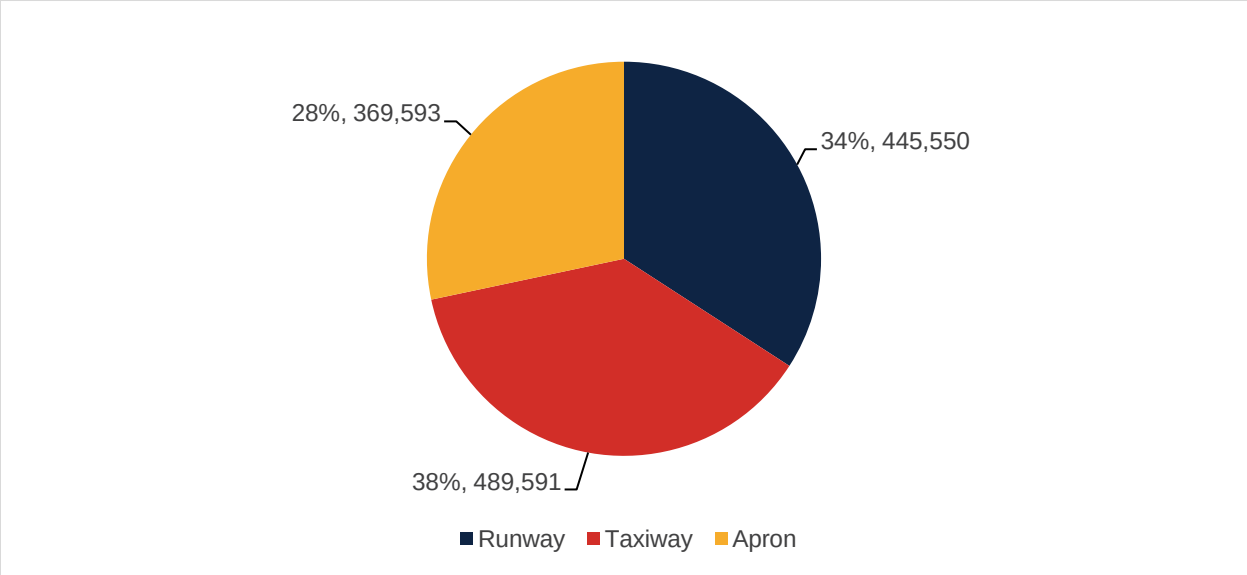
FDOT

2021

3.1.3 Functional Use

Pavements are subject to variations in aircraft loading patterns based on use and overall operations. This is termed "functional use" or "branch use." For this SAPMP System Update, the following categories of pavement functional use are identified: Runway, Taxiway, Taxilane, and Apron. **Figure 3.1.3** summarizes pavement functional use by area and excludes paved shoulders.

Figure 3.1.3: Airfield Pavement Branch Use by Area (SF)

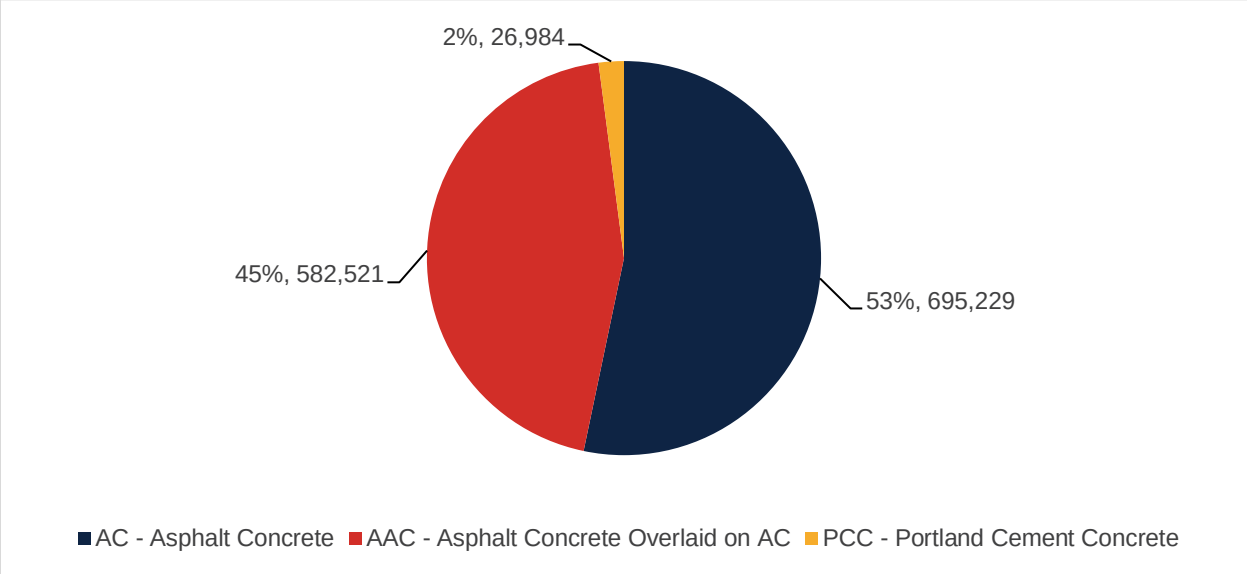


3.1.4 Pavement Surface Type

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 and as observed during airfield pavement field assessments, pavement surface types have been assigned to the various pavement sections. **Figure 3.1.4** summarizes the applicable pavement types observed at 2IS.

Figure 3.1.4: Airfield Pavement Surface Type by Area (SF)



3.1.5 Pavement System Inventory Details

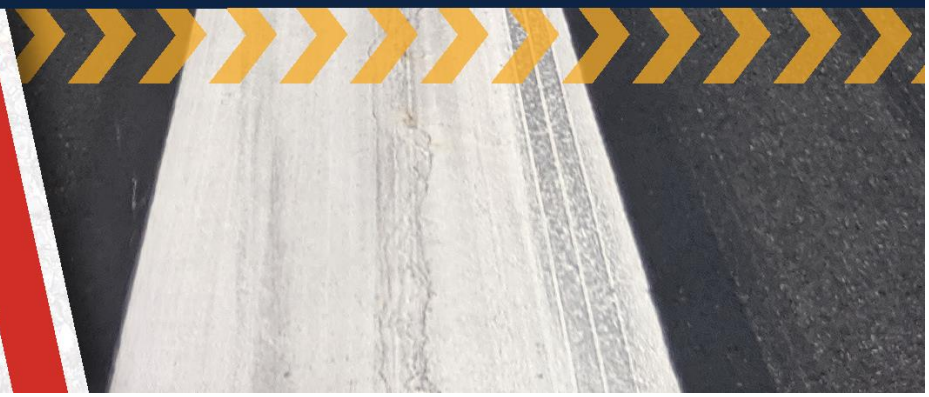
The pavement inventory scope includes updates to existing pavement geometry and the development of an AutoCAD model with spatial projection for use within GIS. **Appendix C** includes the airfield pavement network definition exhibit and the airfield pavement system inventory exhibit, which visually summarize the results of the airfield pavement system inventory analysis.

Table 3.1.5 displays the section-level pavement inventory data. The data is based on the record documentation provided by the airports and from previous updates. The information presented relies on the accuracy and the adequacy of data provided. In some cases, characteristics such as pavement area may be estimated based on aerial interpretation of spatially-projected imagery. Additionally, if the last construction date is unknown, a date of January 1 of the estimated year was assigned to the section. The accuracy of data is appropriate for this network-level planning document. Should the Airport perform rehabilitation work, it is recommended that project-level investigations be performed to support the data accuracy needed for design and construction.

Table 3.1.5: Pavement System Inventory Details

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface Type	Estimate of Last Construction Date
2IS	RW 13-31	Runway	6103	114,068	AAC	2/1/2011
2IS	RW 13-31	Runway	6105	225,000	AC	2/1/2011
2IS	RW 13-31	Runway	6110	106,482	AAC	2/1/2011
2IS	TW A	Taxiway	103	74,342	AAC	1/1/1996
2IS	TW A	Taxiway	105	37,814	AAC	1/1/1996
2IS	TW A	Taxiway	120	13,720	AC	1/1/2011
2IS	TW A	Taxiway	125	109,989	AC	1/1/1996
2IS	TW A1	Taxiway	104	26,288	AAC	1/1/1996
2IS	TW A1	Taxiway	110	2,235	AC	2/11/2011
2IS	TW A2	Taxiway	205	4,599	AC	2/1/2011
2IS	TW A2	Taxiway	210	38,437	AAC	1/1/1996
2IS	TW A2	Taxiway	215	41,410	AC	1/1/1984
2IS	TW A3	Taxiway	410	34,501	AC	1/1/1996
2IS	TW A3	Taxiway	415	6,096	AC	2/1/2011
2IS	TW AP E	Taxiway	710	15,760	AC	12/25/1999
2IS	TW AP W	Taxiway	305	2,718	AAC	1/1/1996
2IS	TW HANG	Taxiway	405	33,514	AAC	1/1/1984
2IS	TW HANG	Taxiway	407	3,153	AC	1/1/2011
2IS	TW S	Taxiway	605	45,015	AC	1/1/1996
2IS	AP E	Apron	4505	102,944	AC	12/25/1999
2IS	AP HANG	Apron	4205	6,912	PCC	1/1/1982
2IS	AP HANG	Apron	4210	14,280	AC	12/25/1999
2IS	AP HANG	Apron	4215	2,850	PCC	12/25/1999
2IS	AP NW	Apron	4405	52,932	AC	12/25/1999
2IS	AP NW	Apron	4410	2,604	PCC	12/25/1999
2IS	AP S	Apron	4305	59,100	AAC	1/1/1984
2IS	AP W	Apron	4105	89,758	AAC	1/1/1996
2IS	AP W	Apron	4110	14,618	PCC	12/25/1999
2IS	AP W	Apron	4115	23,595	AC	9/1/2005

Chapter 4: Airfield Pavement Condition Analysis



Chapter 4 – Airfield Pavement Condition Analysis

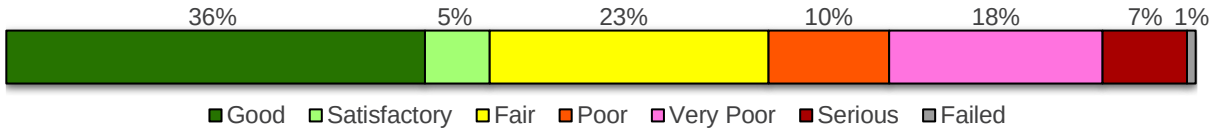
Distress type, severity, and extent are required in the computation of a PCI value. The PCI provides insight to possible causes of deterioration to help support pavement maintenance and rehabilitation planning. The PCI method of pavement condition evaluation is strictly a visual review of surface condition, also referred to as a functional evaluation. Further evaluation of pavement conditions may be necessary, such as structural evaluation, for design- and/or project-level determination of pavement rehabilitation needs.

4.1 Airfield Pavement Condition Index

4.1.1 Network-Level Analysis

The following figure, **Figure 4.1.1**, summarizes the network-level pavement condition analysis based on the most recent survey results. On a network level, approximately 41% of inspected pavements are in Good or Satisfactory condition. Presently, roughly 23% of inspected pavements are in Fair condition and the remaining 36% of inspected pavements are in Poor or worse condition.

Figure 4.1.1: Latest Condition – Overall Network



4.1.2 Branch-Level Analysis

The following **Figures 4.1.2 (a)-(d)** summarize branch-level pavement conditions according to the most recent PCI assessment results.

Figure 4.1.2 (a): Latest Condition Summary – Branch-Level

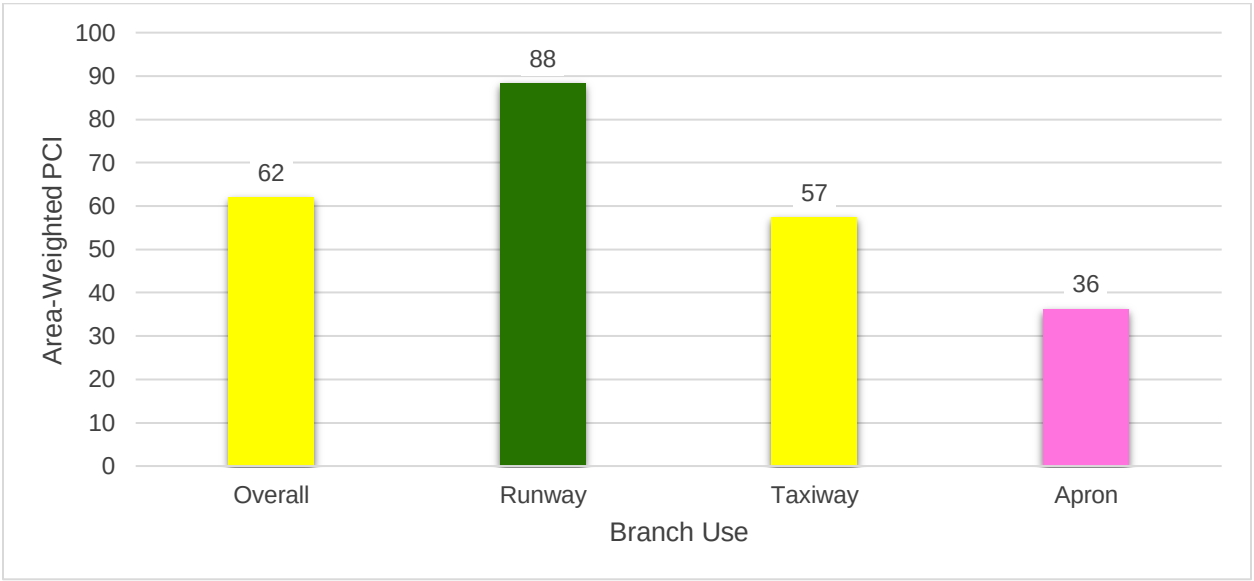


Figure 4.1.2 (b): Latest Condition – Runway

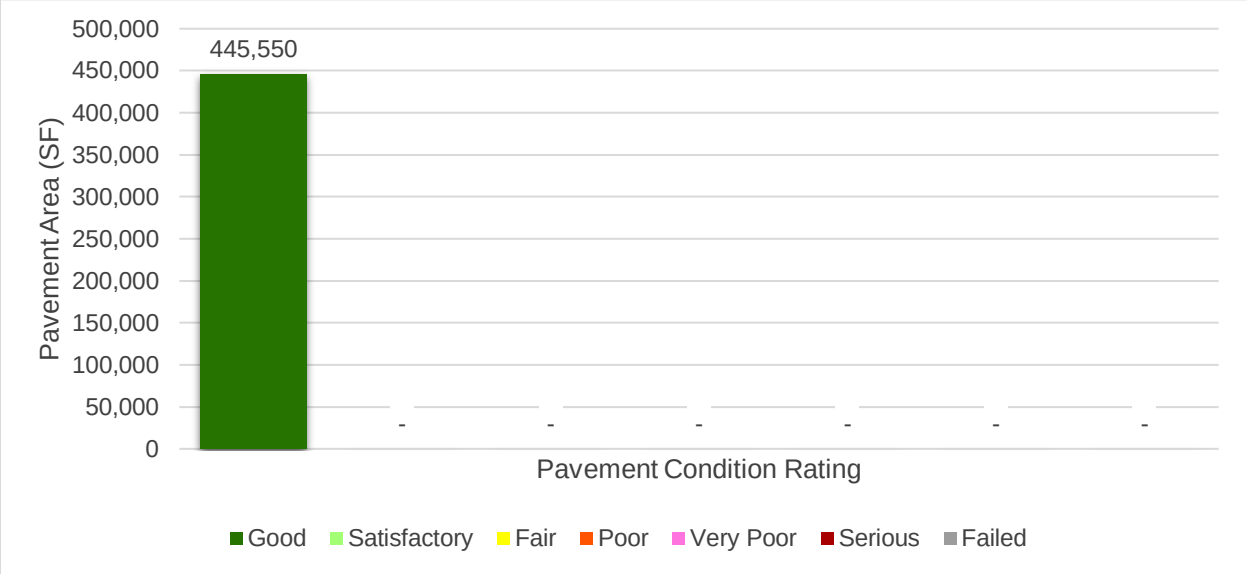


Figure 4.1.2 (c): Latest Condition – Taxiway

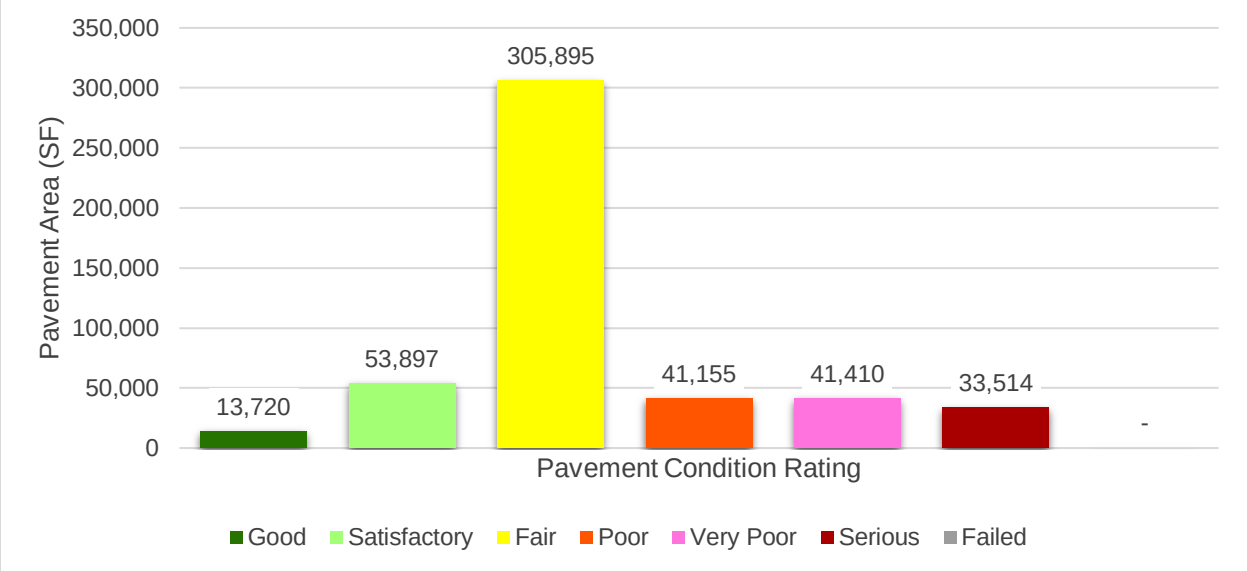


Figure 4.1.2 (d): Latest Condition – Apron

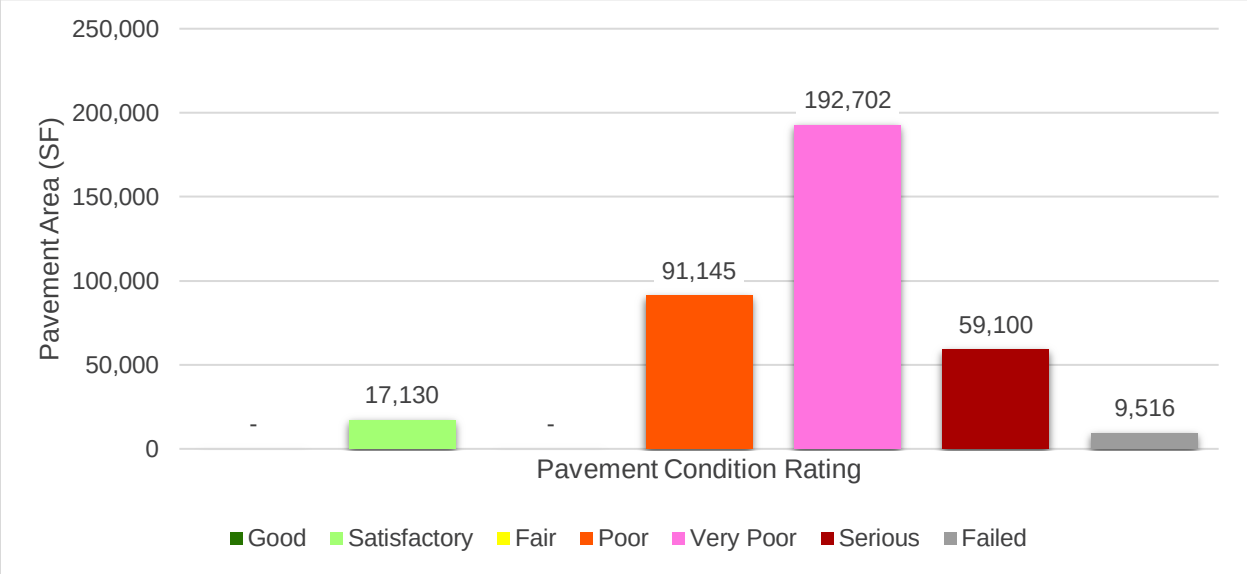


Table 4.1.2 details the branch-level condition for each airfield pavement branch.

Table 4.1.2: Latest Condition Summary – Branch-Level

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Area-Weighted Avg PCI	Condition Rating
RW 13-31	Runway	3	445,550	88	Good
TW A	Taxiway	4	235,865	64	Fair
TW A1	Taxiway	2	28,523	70	Fair
TW A2	Taxiway	3	84,446	47	Poor
TW A3	Taxiway	2	40,597	67	Fair
TW AP E	Taxiway	1	15,760	59	Fair
TW AP W	Taxiway	1	2,718	43	Poor
TW HANG	Taxiway	2	36,667	19	Serious
TW S	Taxiway	1	45,015	58	Fair
AP E	Apron	1	102,944	35	Very Poor
AP HANG	Apron	3	24,042	61	Fair
AP NW	Apron	2	55,536	41	Poor
AP S	Apron	1	59,100	23	Serious
AP W	Apron	3	127,971	36	Very Poor

4.1.3 Section-Level Analysis

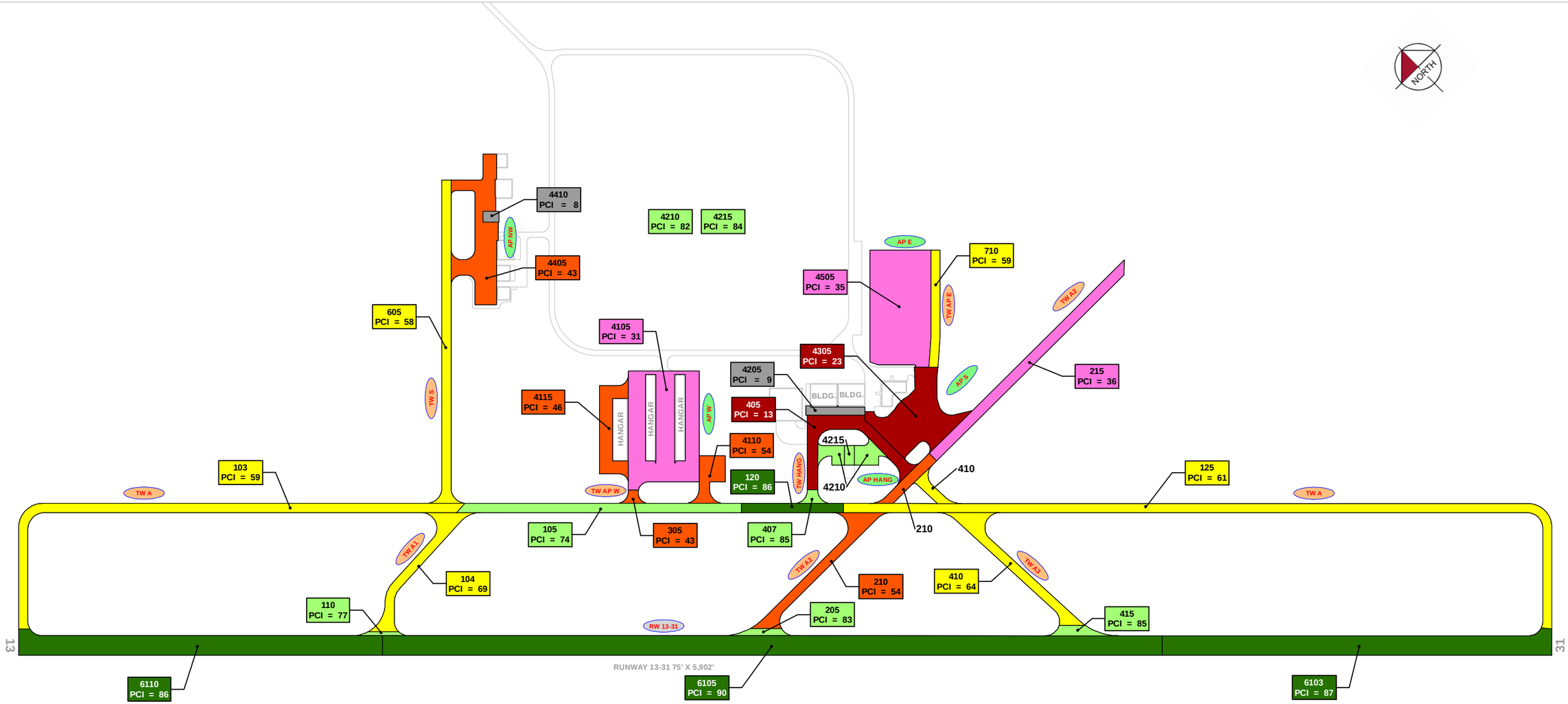
Table 4.1.3 provides each pavement section's area-weighted average PCI and the percent of distress related to load, climate, and other factors. The causes of condition deterioration help inform maintenance, repair, and rehabilitation decisions. For example, load-related distress can indicate that the pavement is reaching the end of its structural design life and the selected rehabilitation treatment should include either strengthening or reconstruction. **Figure 4.1.3** provides a technical exhibit that graphically depicts PCI values and ratings determined from this SAPMP System Update.

Pavement facilities that have been reconstructed within the past 24 months, or are anticipated for reconstruction within the next 24 months, may have been omitted from this assessment. Pavement that has received major rehabilitation will be set to a PCI of 100 for this analysis.

Table 4.1.3: Latest Pavement Condition Index Summary – Section-Level

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface	PCI	Condition Rating	PCI % Climate	PCI % Load	PCI % Other	Sample Units Inspected	Total Sample Units in Section
2IS	RW 13-31	Runway	6103	114,068	AAC	87	Good	100	0	0	5	30
2IS	RW 13-31	Runway	6105	225,000	AC	90	Good	100	0	0	12	60
2IS	RW 13-31	Runway	6110	106,482	AAC	86	Good	100	0	0	5	28
2IS	TW A	Taxiway	103	74,342	AAC	59	Fair	76	0	24	5	21
2IS	TW A	Taxiway	105	37,814	AAC	74	Satisfactory	83	0	17	2	10
2IS	TW A	Taxiway	120	13,720	AC	86	Good	100	0	0	1	3
2IS	TW A	Taxiway	125	109,989	AC	61	Fair	98	0	2	6	30
2IS	TW A1	Taxiway	104	26,288	AAC	69	Fair	100	0	0	1	6
2IS	TW A1	Taxiway	110	2,235	AC	77	Satisfactory	100	0	0	1	1
2IS	TW A2	Taxiway	205	4,599	AC	83	Satisfactory	100	0	0	1	1
2IS	TW A2	Taxiway	210	38,437	AAC	54	Poor	99	0	1	2	10
2IS	TW A2	Taxiway	215	41,410	AC	36	Very Poor	100	0	0	2	10
2IS	TW A3	Taxiway	410	34,501	AC	64	Fair	97	0	3	3	8
2IS	TW A3	Taxiway	415	6,096	AC	85	Satisfactory	100	0	0	1	1
2IS	TW AP E	Taxiway	710	15,760	AC	59	Fair	89	0	11	1	5
2IS	TW AP W	Taxiway	305	2,718	AAC	43	Poor	99	0	1	1	1
2IS	TW HANG	Taxiway	405	33,514	AAC	13	Serious	74	22	4	2	6
2IS	TW HANG	Taxiway	407	3,153	AC	85	Satisfactory	100	0	0	1	1
2IS	TW S	Taxiway	605	45,015	AC	58	Fair	85	0	15	3	12
2IS	AP E	Apron	4505	102,944	AC	35	Very Poor	94	0	6	3	22
2IS	AP HANG	Apron	4205	6,912	PCC	9	Failed	3	76	21	1	1
2IS	AP HANG	Apron	4210	14,280	AC	82	Satisfactory	90	0	10	1	3
2IS	AP HANG	Apron	4215	2,850	PCC	84	Satisfactory	42	32	26	1	1
2IS	AP NW	Apron	4405	52,932	AC	43	Poor	63	37	0	2	13
2IS	AP NW	Apron	4410	2,604	PCC	8	Failed	8	89	3	1	1
2IS	AP S	Apron	4305	59,100	AAC	23	Serious	90	0	10	2	12
2IS	AP W	Apron	4105	89,758	AAC	31	Very Poor	92	7	1	4	22
2IS	AP W	Apron	4110	14,618	PCC	54	Poor	21	0	79	2	6
2IS	AP W	Apron	4115	23,595	AC	46	Poor	100	0	0	1	5

** Zero (0) Sample Units Inspected signifies that the pavement section was not inspected during this SAPMP System Update due to recent construction projects. These sections correlate with the gray sections on the Network Definition Exhibit.*



LEGEND

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

2020 PAVEMENT CONDITION INDEX

- 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 ID"
"PCI VALUE"

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

2IS

AIRFIELD PAVEMENT CONDITION INDEX EXHIBIT

Statewide Airfield Pavement Management Program

AIRGLADES AIRPORT

FDOT

2021

4.2 Summary of Pavement Condition Evaluation Results

4.2.1 Network-Level Observations

The PCI assessment for Airglades Airport (2IS) was performed in October 2020. The overall area-weighted average PCI value of the network was 62, representing a condition rating of Fair.

Based on the FAA 5010 Report as of 04/22/2021, the Airport has reported 11,527 operations for 12 months ending 10/09/2018.

4.2.2 Branch-Level Observations

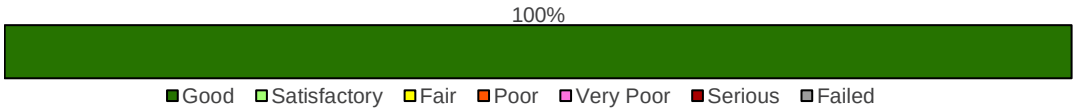
The following branch-level observations are a summary of select pavement facilities identified during the PCI assessment, including a discussion of general conditions and branch characteristics. The summary may not include all branches and/or sections within the airport's airfield pavement network. Representative distress photographs of airfield pavements are presented in **Appendix D**. "Vicinity" photos refer to the approximate boundaries of an inspected sample unit within the section and provide an overview of the section condition but are not focused on a specific distress. The Re-inspection Report found in **Appendix E** provides listings of each sample unit and distress.

Runways

RW 13-31

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
RW 13-31	RUNWAY	3	445,550	88	Good

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 100% Good (86-100 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
6103	AAC	114,068	87	Good
6105	AC	225,000	90	Good
6110	AAC	106,482	86	Good

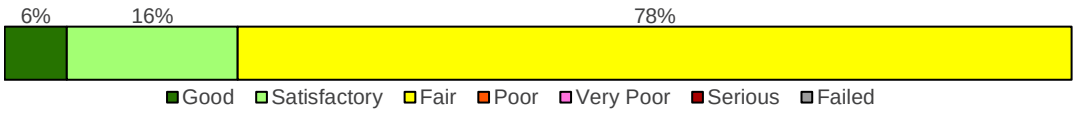
RW 13-31 consists of 3 flexible pavement sections, totaling 445,550 sf. The last major construction date for the branch was 2011, resulting in an area-weighted average age at inspection of 10 years old. Overall, RW 13-31 is in Good condition with an area-weighted average PCI of 88.

Taxiways

TW A

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW A	TAXIWAY	4	235,865	64	Fair

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 6% Good (86-100 PCI), 16% Satisfactory (71-85 PCI), 78% Fair (56-70 PCI).



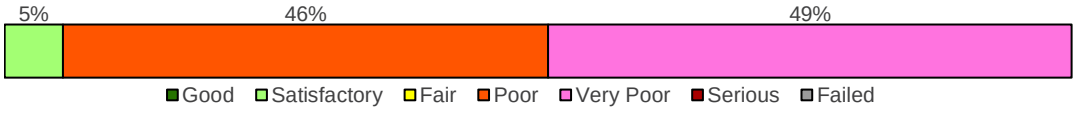
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
103	AAC	74,342	59	Fair
105	AAC	37,814	74	Satisfactory
120	AC	13,720	86	Good
125	AC	109,989	61	Fair

TW A consists of 4 flexible pavement sections, totaling 235,865 sf. The last major construction dates range from 1996 to 2011, resulting in an area-weighted average age at inspection of 24 years old. Overall, TW A is in Fair condition with an area-weighted average PCI of 64.

TW A2

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW A2	TAXIWAY	3	84,446	47	Poor

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 5% Satisfactory (71-85 PCI), 46% Poor (41-55 PCI), 49% Very Poor (26-40 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
205	AC	4,599	83	Satisfactory
210	AAC	38,437	54	Poor
215	AC	41,410	36	Very Poor

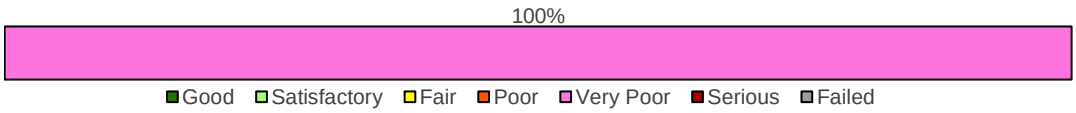
TW A2 consists of 3 flexible pavement sections, totaling 84,446 sf. The last major construction dates range from 1984 to 2011, resulting in an area-weighted average age at inspection of 30 years old. Overall, TW A2 is in Poor condition with an area-weighted average PCI of 47.

Aprons

AP E

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
AP E	APRON	1	102,944	35	Very Poor

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 100% Very Poor (26-40 PCI).



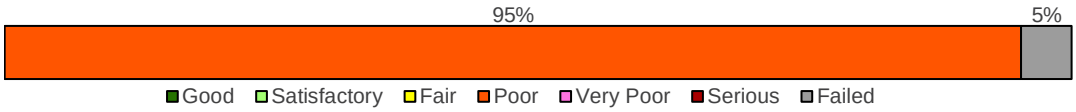
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
4505	AC	102,944	35	Very Poor

AP E consists of 1 flexible pavement section, totaling 102,944 sf. The last major construction date for the branch was 1999, resulting in an area-weighted average age at inspection of 21 years old. Overall, AP E is in Very Poor condition with an area-weighted average PCI of 35.

AP NW

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
AP NW	APRON	2	55,536	41	Poor

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 95% Poor (41-55 PCI), 5% Failed (0-10 PCI).



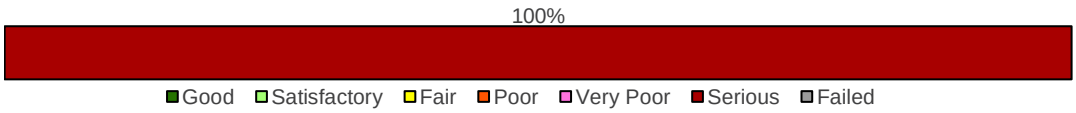
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
4405	AC	52,932	43	Poor
4410	PCC	2,604	8	Failed

AP NW consists of 1 flexible and 1 rigid pavement sections, totaling 55,536 sf. The last major construction date for the branch was 1999, resulting in an area-weighted average age at inspection of 21 years old. Overall, AP NW is in Poor condition with an area-weighted average PCI of 41.

AP S

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
AP S	APRON	1	59,100	23	Serious

The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 100% Serious (11-25 PCI).



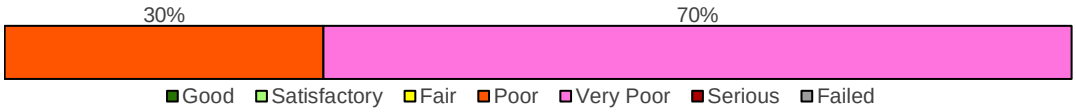
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
4305	AAC	59,100	23	Serious

AP S consists of 1 flexible pavement section, totaling 59,100 sf. The last major construction date for the branch was 1984, resulting in an area-weighted average age at inspection of 37 years old. Overall, AP S is in Serious condition with an area-weighted average PCI of 23.

AP W

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
AP W	APRON	3	127,971	36	Very Poor

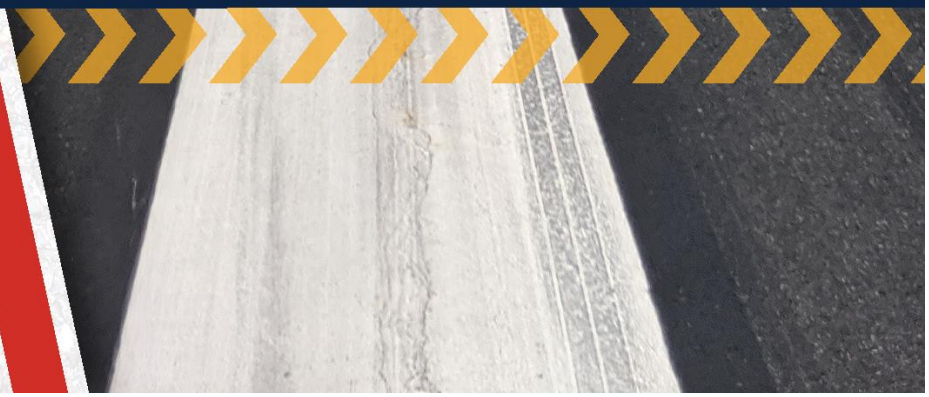
The following bar graph shows proportional distribution (as % of area within branch) of condition categories among sections within the branch. Given the individual section data shown in the subsequent table, the distribution is as follows: 30% Poor (41-55 PCI), 70% Very Poor (26-40 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
4105	AAC	89,758	31	Very Poor
4110	PCC	14,618	54	Poor
4115	AC	23,595	46	Poor

AP W consists of 2 flexible and 1 rigid pavement sections, totaling 127,971 sf. The last major construction dates range from 1996 to 2005, resulting in an area-weighted average age at inspection of 23 years old. Overall, AP W is in Very Poor condition with an area-weighted average PCI of 36.

Chapter 5: SAPMP Customization



Chapter 5 – SAPMP Customization

Once the PAVER™ database is populated with inventory and condition data including PCI and rank, it is further customized with key elements such as network-level attributes, performance models, critical PCI, maintenance policies, and unit costs that are specific to the FDOT SAPMP. Each of these factors plays a role in the development of rehabilitation strategies as they help to identify maintenance and rehabilitation needs for long-term management.

The FDOT SAPMP is organized to provide airports with planning-level data and does not intend to preclude the responsible engineer from 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.

5.1 Network-Level Customization

The network-level attribute fields used in the FDOT SAPMP PAVER™ database consist of the Network, Airport Classification, District, FAA ADO Area, Inspection Phase, and Continuing Florida Aviation System Planning Process (CFASPP) Center. Each of these elements are briefly defined below.

- The “Network” field identifies the airport being analyzed;
- The “Airport Classification” field classifies the Airport according to the type and volume of aircraft traffic;
  - “GA” for General Aviation, community airports
  - “RL” for Regional Relievers
  - “PR” for Primary/Commercial airports
- The “District” field identifies the FDOT District to which the Airport belongs;
- The “FAA ADO Area” is an area used by the Orlando ADO to assign airports within those areas to the responsible FAA ADO personnel (planners, engineers, and environmentalists);
- The “Inspection Phase” denotes which phase of the SAPMP the airport is surveyed, Phase 1 or Phase 2; and
- The “CFASPP Center” identifies which Region or Metropolitan Area of the Continuing Florida Aviation Systems Planning Process an airport falls within.

5.2 Pavement Condition Forecasts

Pavement performance models, alternatively known as forecast models, prediction curves, or family curves, are developed from past and current distress data, as well as age data. These prediction curves are used to develop forecasts of PCI values that then help determine optimum timing for pavement maintenance and rehabilitation.

5.2.1 Forecasting PCI Considerations

Performance models will continue to be refined as the FDOT updates the SAPMP with subsequent PCI surveys. With the refinement of additional PCI and age data points, the forecasting of pavement conditions will continue to better reflect the performance trends of airfield pavements in the FAS. Forecasting of pavement condition for the Airport is intended for planning purposes only. **The estimation of forecasted PCI values gives no assurance of future pavement conditions as PCI values represent an engineering estimation to be used as a planning tool. Forecasted PCI data should not be the sole metric for determining the year in which a project should be planned. Design-level planning should be undertaken by the responsible engineer prior to the development of airfield design plans.** Design-level recommendations for pavement rehabilitation and/or reconstruction will require the appropriate application of the procedures defined in the FAA AC 150/5320-6F.

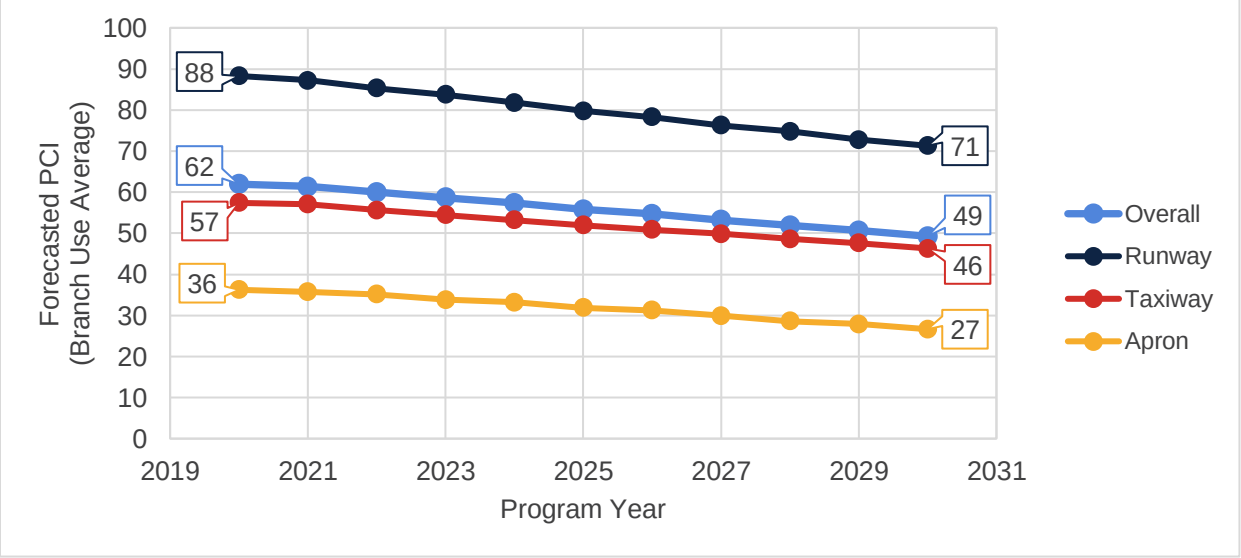
5.2.2 Performance Models

To develop pavement performance models, data for each section is combined into "groups" or "families" according to pavement type, traffic, and functional use. For the FDOT SAPMP, the models were defined for both PCC- and AC-surfaced pavements and further divided according to functional use. Based on average deterioration rates for different pavement types, each pavement section is assigned to a specific deterioration family to forecast the condition over a 10-year period.

5.2.3 Branch-Level Pavement Condition Forecast

Figure 5.2.3 depicts the branch-level pavement condition forecast for each branch use (Runway, Taxiway, Taxilane, and/or Apron) as well as the overall network. The condition forecasts are for a 10-year duration, starting in 2021 through 2030.

Figure 5.2.3: Forecasted Branch-Level Pavement Performance



5.2.4 Section-Level Pavement Condition Forecast

Table 5.2.4 provides section-level details for PCI forecasts. Pavement condition forecasts should be used for planning purposes only, as actual condition of sections is subject to the sensitivities in changes of traffic and maintenance frequency.

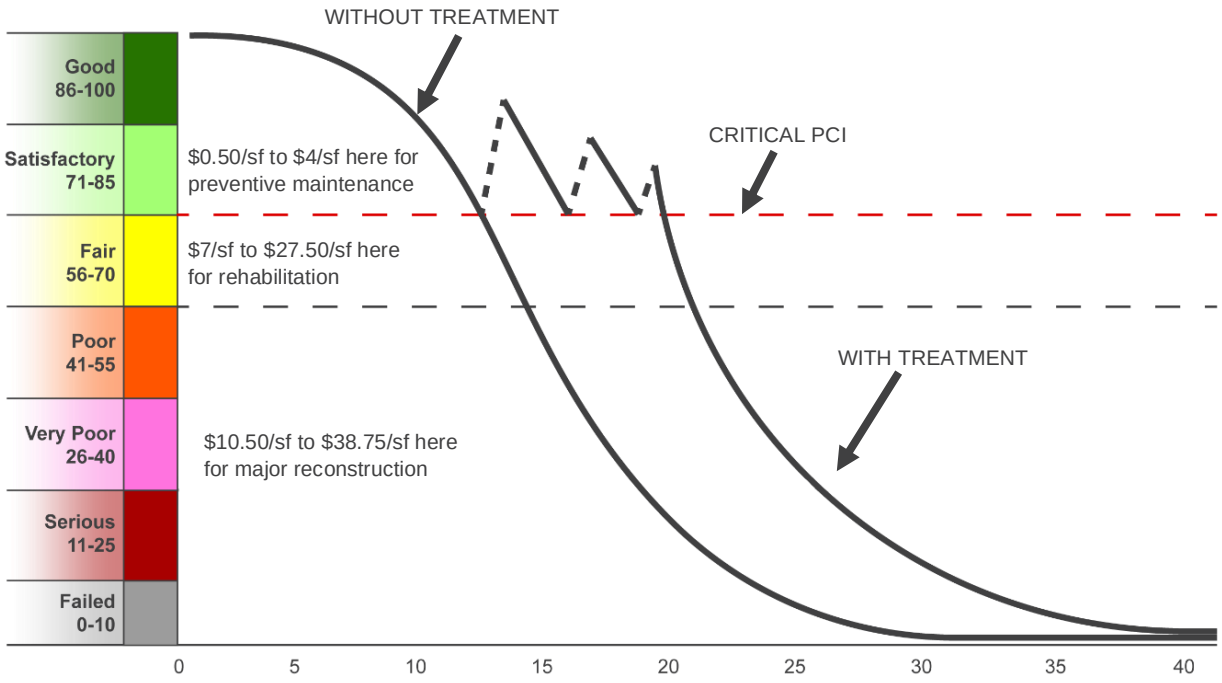
Table 5.2.4: Forecasted PCI Values 2021-2030 – Section-Level

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI									
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2IS	RW 13-31	6103	87	86	84	82	80	78	76	74	72	70	68
2IS	RW 13-31	6105	90	89	87	86	84	82	81	79	78	76	75
2IS	RW 13-31	6110	86	85	83	81	79	77	75	73	71	69	67
2IS	TW A	103	59	59	57	56	54	52	51	49	47	44	42
2IS	TW A	105	74	74	72	71	70	69	67	66	65	64	63
2IS	TW A	120	86	85	83	81	80	78	77	75	74	72	71
2IS	TW A	125	61	61	60	59	59	58	57	57	56	56	55
2IS	TW A1	104	69	69	67	66	65	64	63	62	60	59	58
2IS	TW A1	110	77	76	75	73	72	71	70	68	67	66	65
2IS	TW A2	205	83	82	80	79	77	76	74	73	71	70	69
2IS	TW A2	210	54	53	52	50	48	46	43	41	38	36	33
2IS	TW A2	215	36	36	35	34	32	31	30	28	27	26	24
2IS	TW A3	410	64	64	63	62	61	60	60	59	58	58	57
2IS	TW A3	415	85	84	82	81	79	77	76	74	73	72	70
2IS	TW AP E	710	59	59	58	58	57	57	56	55	55	54	54
2IS	TW AP W	305	43	42	39	37	34	31	27	24	21	18	15
2IS	TW HANG	405	13	11	8	5	2	0	0	0	0	0	0
2IS	TW HANG	407	85	84	82	81	79	77	76	74	73	72	70
2IS	TW S	605	58	58	57	57	56	56	55	55	54	54	53
2IS	AP E	4505	35	35	35	34	34	33	33	32	31	31	30
2IS	AP HANG	4205	9	9	8	7	6	5	4	3	2	1	0
2IS	AP HANG	4210	82	81	79	77	76	74	72	71	69	68	66
2IS	AP HANG	4215	84	84	83	82	81	80	79	78	77	76	75
2IS	AP NW	4405	43	43	43	42	42	41	41	40	40	39	39
2IS	AP NW	4410	8	8	7	6	5	4	3	2	1	0	0
2IS	AP S	4305	23	22	21	19	18	16	15	13	11	10	8
2IS	AP W	4105	31	30	29	27	26	24	23	21	19	18	16
2IS	AP W	4110	54	54	53	52	51	50	49	48	47	46	45
2IS	AP W	4115	46	46	45	45	44	44	43	43	42	42	41

5.3 Critical PCI Value

An important concept in pavement management is the critical PCI value, a value that prompts major rehabilitation activities. It serves as a condition threshold that helps determine a section's suitability to receive major work. As soon as a section's PCI reaches the critical PCI value, the rate of PCI loss (deterioration) is expected to increase. The critical PCI concept assumes that once a pavement section deteriorates to this critical level, it is more cost-effective to complete a major rehabilitation project rather than continuing to apply preventive maintenance or deferring major work until more costly reconstruction activities are required. **Figure 5.3 (a)** illustrates the benefit of applying lower cost preventive maintenance to extend the life of the pavement.

Figure 5.3 (a): General Pavement Treatments by Condition Range



Critical PCI values vary and are typically based on a pavement's surface type, functional use, and importance, or priority, in daily operations. Pavement priority is generally assigned based on the branch use of a pavement section. In previous updates, the critical PCI value was set to 65 for all functional uses. Based on FAA Order 5100.38D Change 1 Airport Improvement Handbook, issued February 26, 2019, the FAA has established pavement construction based on thresholds that distinguish Rehabilitation and Reconstruction. Pavement sections between PCI Values 55 and 69 will be considered for Rehabilitation and sections between PCI Values 0 to 54 will be considered for Reconstruction at the planning-level, as shown in **Table 5.3 (a)**. The FDOT SAPMP will integrate the PCI thresholds for airfield pavement projects to maintain alignment with the FAA AIP and/or PFC eligibility for project planning. Moving forward, the critical PCI value will now be defined at 69 for the FDOT SAPMP. Critical PCI values for this SAPMP System Update are shown in **Table 5.3 (b)**.

Table 5.3 (a): AIP Handbook PCI Requirements

PCI Requirements for Airfield Pavement Projects	
Airfield Pavement Project Type	**PCI Requirement**
Reconstruction	PCI < 55 (Poor)
Rehabilitation	PCI < 70 (Fair)
Maintenance	N/A

**Source:* AIP Handbook, in reference to Runways, Taxiways, and Aprons as seen in table G-2, H-1, and I-1 respectively

Table 5.3 (b): Critical PCI Values by Branch Use

Branch Use		
Runway	**Taxiway**	**Apron**
69	69	69

Figures 5.3 (b) and 5.3 (c) depict the decision process for major rehabilitation project identification with the assumption of available funds (Shahin). Should funding be unavailable for pavement sections in need of major rehabilitation, the Airport may elect to apply appropriate localized stopgap repair strategies. As the figures show, once major rehabilitation has been applied, the PCI of the section is reset to 100.

Figure 5.3 (b): Major Rehabilitation Planning Decision Diagram, PCI < Critical PCI

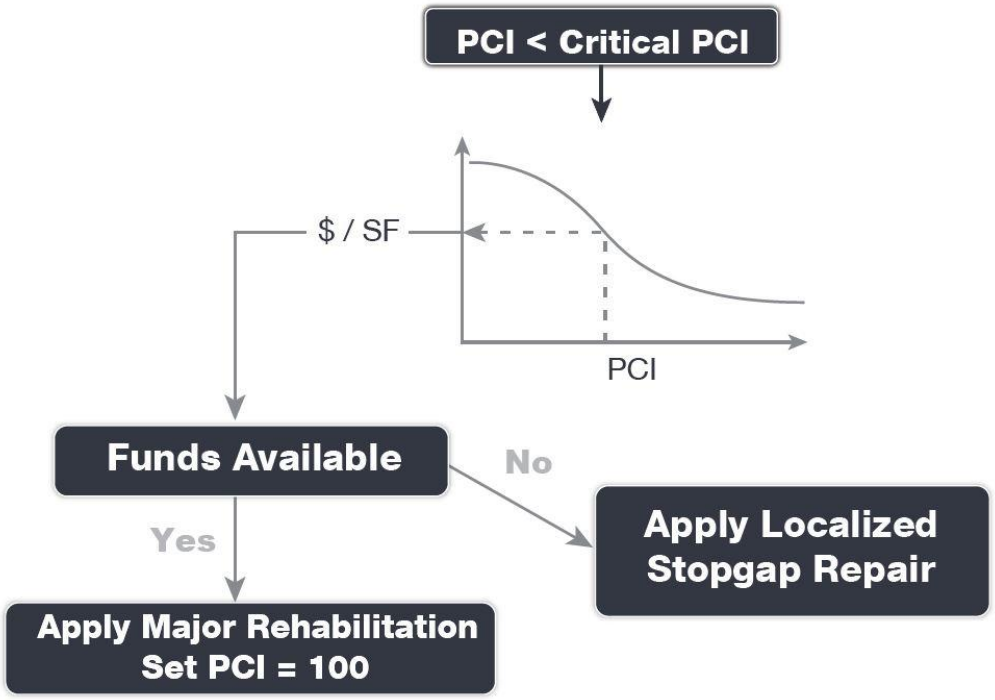
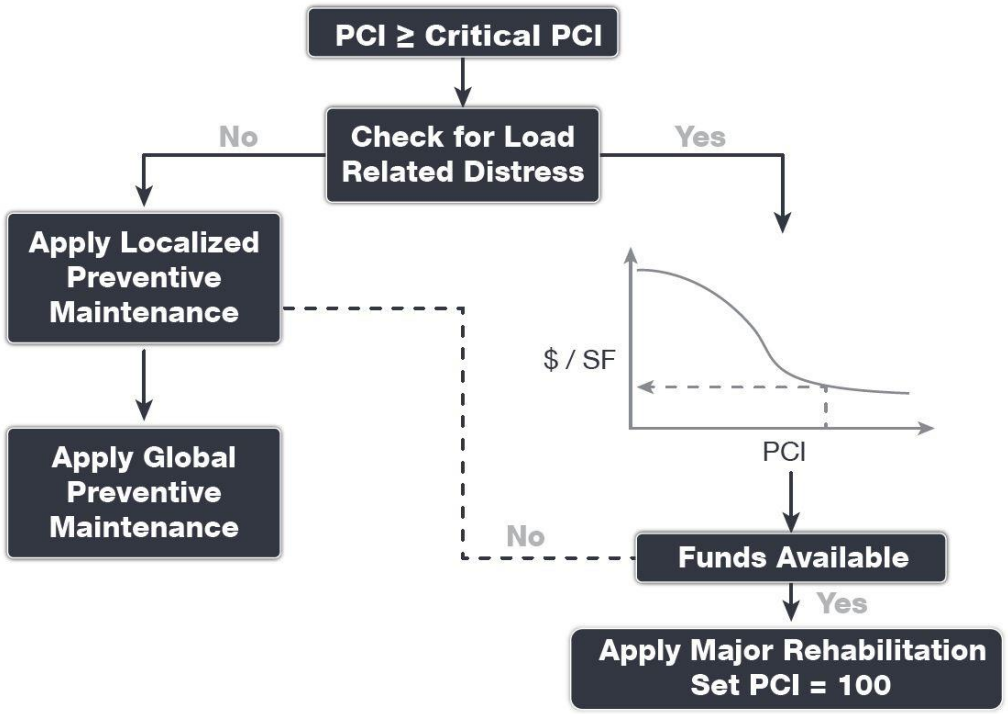


Figure 5.3 (c): Major Rehabilitation Planning Decision Diagram, PCI ≥ Critical PCI



5.4 Localized Maintenance and Repair

This section discusses both localized maintenance and major rehabilitation M&R methods and how they may be most effectively applied to extend the life of the pavement network. General maintenance and rehabilitation (M&R) methods are characterized under two broad categories: localized maintenance and major rehabilitation.

Localized maintenance is best applied as a conservation measure and is applied to slow the rate of pavement deterioration. It may, however, be applied as a temporary corrective measure in isolated areas. Proactive localized maintenance, and specifically preservation, is highly recommended to the Airport. However, it is recognized that once pavements have deteriorated below a certain condition threshold (the critical PCI value), the pavement benefits from more substantial rehabilitation in lieu of localized repairs.

Major rehabilitation is recommended when a pavement section falls below the critical PCI value or if a pavement section has a significant presence of load-related distress. Major rehabilitation efforts can correct or improve structural deficiencies and/or functional deterioration for pavement sections within a network.

M&R planning combines methods of repair to address the cause of the problem rather than just treating the symptom. For example, a PCC corner break may require slab under-sealing, full-depth patching, and joint sealing. While these repair methods apply to specific distress and pavement types, they also consider the impact of Foreign Object Debris (FOD) on aircraft operations. Untidy or improperly constructed repair activities may disintegrate and potentially create FOD at or near the repair site. Therefore, maintenance activities must include quality control monitoring to ensure that repairs are conducted properly, and clean-up activities are undertaken to address this potential. The current version of the FAA Advisory Circular 150/5210-24 “Airport Foreign Object Debris (FOD) Management” provides additional guidance for developing and managing an airport FOD program.

5.4.1 Localized Maintenance and Repair Approach

Localized maintenance differs from major rehabilitation in that localized maintenance is applied based on the distresses observed and not an averaged or forecasted PCI value. Treatments are selected based on the appropriate corrective measure for a given distress type and severity level. Localized maintenance can be applied either as a preventive measure or a safety (“stopgap”) measure. The two types of localized maintenance are described below in further detail.

- Localized Preventive Maintenance and Repair
  - Distress maintenance activities performed with the primary objective of slowing the rate of deterioration. These activities typically include crack sealing and patching.
- Localized Stopgap/Safety Maintenance and Repair
  - Defined as the localized distress repair needed to keep a pavement in a safe and operational condition. These activities are typically applied to high-severity distresses or distresses impacting operations.

5.4.2 Localized Work Types

The following sections provide detailed descriptions of the maintenance policy work types identified in the Localized Maintenance Policy.

AC Crack Sealing

Crack sealing is the process of cleaning and sealing (or resealing) cracks in AC pavements. This repair is used to fill longitudinal and transverse cracks, including reflective cracks and block cracks that are wider than 1/8-inch. The purpose of this treatment is to prevent water and incompressible materials from entering cracks and causing further deterioration of the pavement structure. Accumulation of incompressible materials in cracks may lead to spalling and is a source of FOD. Crack sealing is cost-effective when used as a preventive measure. Depending on the size of the crack, routing and cleaning the crack may be necessary to remove the loose material within the crack for better adherence of the crack sealant to the crack face. Measurement of this work type is typically in linear feet.

AC Full-Depth Patching

This technique involves replacing the full thickness of the AC layer and may include replacement of the base and subbase layers. Full-depth patching is used to repair structural and material-related distresses, such as alligator cracking, corrugation, depressions, rutting, slippage cracking, and swelling in AC pavements. This repair may be limited to the top AC layer (partial-depth patch) if the base and subbase layers exhibit no signs of deterioration. Measurement of this work type is typically in square feet or square yards.

AC Partial-Depth AC Patching

This technique involves the removal of a given thickness of the surface layer using a milling machine and adding back a layer of AC pavement. This technique removes the deteriorated layer and provides a good bond for an overlay. It can correct or improve the structural capacity or functional requirement, such as skid resistance and ride quality. This repair is used for surface distresses that can occur over a large area, such as raveling, shoving, and bleeding. While mill and replace can be a major rehabilitation M&R method when applied at a large scale, its application in a localized capacity to treat specific distress types also classifies it under localized maintenance for the purpose of this study. After milling operations are completed, any cracks still present should be cleaned and sealed prior to the placement of a tack coat and AC overlay layer(s). Measurement of this work type is typically in square feet or square yards.

Grinding

Grinding is the process of removing a thin layer of the existing concrete by grinding it with a series of closely spaced, rotating saw blades. This method is used to re-profile jointed concrete pavements with poor ride quality due to faulting or warping. Grinding is also used to restore transverse drainage and to provide a textured pavement surface. The concern with this type of maintenance is that if too much material is removed, the overall structural composition of the pavement section may change, potentially reducing the overall life of the pavement. Measurement of this work type is typically in square feet or square yards.

Monitor Pavement

Monitor pavement is recommended when the distresses do not interfere with ride quality, do not have FOD potential, and do not pose an immediate safety concern.

PCC Crack Sealing

Crack sealing is the process of routing, cleaning, and sealing (or resealing) cracks in PCC pavement to prevent water from infiltrating into the pavement foundation and to stop the accumulation of incompressible materials in the cracks. Water entering cracks can weaken the subgrade, potentially leading to pumping, corner breaks, and/or shattered slabs. Accumulation of incompressible materials in cracks may lead to spalling and is a source of FOD. Routing and cleaning of the crack is often necessary to adhere the crack sealant to both sides of the crack. Measurement of this work type is typically in linear feet.

PCC Full-Depth Patching

This type of M&R activity involves full-depth replacement of a portion of a PCC slab. This repair is used for medium- and high-severity corner breaks, medium-severity durability cracking, medium-severity blowups and buckling, and high-severity large patches. This repair requires restoring load transfer if near a joint or crack. Measurement of this work type is typically in square feet or square yards.

PCC Joint Seal

Joint sealing is the process of cleaning and sealing (or resealing) joints in PCC pavement to prevent water from infiltrating into the pavement foundation and to stop the accumulation of incompressible materials in the joints. Water entering joints can weaken the subgrade, potentially leading to pumping, corner breaks, and/or shattered slabs. Accumulation of incompressible materials in joints leads to spalling of the concrete and is a source of FOD. In some cases, it may be necessary to re-saw the pavement joints to remove old material prior to resealing. Measurement of this work type is typically in linear feet.

PCC Partial-Depth Patching

Partial-depth patching involves removing shallow, localized areas of deteriorated or spalled PCC pavement and replacing them with a suitable patch-like cement concrete or epoxy concrete. This method is used to repair distresses that are confined to the top few inches of the slab, such as joint and corner spalling. This repair would require restoring the joint sealant if near a joint. Measurement of this work type is typically in square feet or square yards.

PCC Slab Replacement

This type of M&R activity involves full-depth replacement of an entire PCC slab. This repair is used to repair high-severity blowups and buckling, high-severity durability cracking, medium- and high-severity shattered slabs, and medium- and high-severity ASR. This repair requires restoring load transfer with adjacent slabs through dowels or similar means. Measurement of this work type is typically in square feet or square yards.

Surface Seal

Application of a surface treatment provides AC-surfaced pavements with an unoxidized layer of bituminous material that can help extend the life of a pavement that is experiencing climate-related distresses such as weathering and raveling. The surface treatment can also serve as a repair that re-establishes a bond between aggregates, slowing pavement deterioration and reducing FOD potential. Measurement of this work type is typically in square feet or square yards.

5.4.3 Localized Maintenance Planning-Level Unit Costs

The activities identified here are based on research of practical pavement treatments in consideration of the FAA AC 150/5380-6C. The Localized Maintenance Policies and associated planning-level unit costs are developed in consideration of a network-level analysis.

The Localized Maintenance and Repair Policies and associated planning-level unit costs are based on a statewide consideration of pavement treatments and construction costs from both airfield pavements and the FDOT Historical Cost Information archives. Furthermore, a consideration of limited repair quantities is factored into the determination of conservative planning-level unit costs. Neither FDOT nor the Consultant team have control over the cost of labor, materials, equipment, 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 the 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.

Tables 5.4.3 (a) and **(b)** display the cost by maintenance activity for AC and PCC pavement types, respectively. Because the localized maintenance activities identified for both preventive and stopgap work types are based on a statewide network approach, project-specific evaluations and maintenance quantities should be developed prior to construction.

Table 5.4.3 (a): Localized M&R Planning-Level Unit Costs – Asphalt Concrete

Localized Work Type	General Aviation Costs	Work Type Unit
AC Crack Sealing	$ 3.00	LF
AC Full-Depth Patching	$ 7.50	SF
AC Partial-Depth Patching	$ 3.75	SF
Monitor Pavement	-	-
Surface Seal	$ 0.50	SF

Table 5.4.3 (b): Localized M&R Planning-Level Unit Costs – Portland Cement Concrete

Localized Work Type	General Aviation Costs	Work Type Unit
Grinding	$ 2.00	SF
Monitor Pavement	-	-
PCC Crack Sealing	$ 5.00	LF
PCC Joint Seal	$ 3.25	LF
PCC Full-Depth Patching	$ 50.00	SF
PCC Partial-Depth Patching	$ 125.00	SF
PCC Slab Replacement	$ 38.75	SF

**PCC Partial-Depth Patching considers high-early-strength and high-performing repair material.*

5.4.4 Localized Maintenance and Repair Policy

The resulting Localized Maintenance recommendations are identified based on the policy defined in **Tables 5.4.4 (a) and (b)**. **Table 5.4.4 (a)** depicts the localized preventive maintenance policy for AC and PCC pavements. **Table 5.4.4 (b)** depicts the localized stopgap maintenance policy for AC and PCC pavements.

Table 5.4.4 (a): Localized Preventive Maintenance and Repair Policy

Distress	Severity	Localized Work Type	Work Type Unit
Alligator Cracking	Low	Monitor Pavement	-
Alligator Cracking	Medium	AC Full-Depth Patching	SF
Alligator Cracking	High	AC Full-Depth Patching	SF
Bleeding	N/A	Monitor Pavement	-
Block Cracking	Low	Monitor Pavement	-
Block Cracking	Medium	AC Crack Sealing	LF
Block Cracking	High	AC Crack Sealing	LF
Corrugation	Low	Monitor Pavement	-
Corrugation	Medium	AC Full-Depth Patching	SF
Corrugation	High	AC Full-Depth Patching	SF
Depression	Low	Monitor Pavement	-
Depression	Medium	AC Full-Depth Patching	SF
Depression	High	AC Full-Depth Patching	SF
Jet Blast	N/A	Monitor Pavement	-
Jt. Reflective Cracking	Low	Monitor Pavement	-
Jt. Reflective Cracking	Medium	AC Crack Sealing	LF
Jt. Reflective Cracking	High	AC Crack Sealing	LF
L&T Cracking	Low	Monitor Pavement	-
L&T Cracking	Medium	AC Crack Sealing	LF
L&T Cracking	High	AC Crack Sealing	LF
Oil Spillage	N/A	Monitor Pavement	-
Patching	Low	Monitor Pavement	-
Patching	Medium	AC Full-Depth Patching	SF
Patching	High	AC Full-Depth Patching	SF
Polished Aggregate	N/A	Monitor Pavement	-
Raveling	Low	Surface Seal	SF
Raveling	Medium	Surface Seal	SF
Raveling	High	AC Partial-Depth Patching	SF
Rutting	Low	Monitor Pavement	-
Rutting	Medium	AC Full-Depth Patching	SF

Distress	Severity	Localized Work Type	Work Type Unit
Rutting	High	AC Full-Depth Patching	SF
Shoving	Low	Monitor Pavement	-
Shoving	Medium	AC Partial-Depth Patching	SF
Shoving	High	AC Full-Depth Patching	SF
Slippage Cracking	N/A	AC Full-Depth Patching	SF
Swelling	Low	Monitor Pavement	-
Swelling	Medium	AC Full-Depth Patching	SF
Swelling	High	AC Full-Depth Patching	SF
Weathering	Low	Monitor Pavement	-
Weathering	Medium	Surface Seal	SF
Weathering	High	AC Partial-Depth Patching	SF
Blow-up	Low	PCC Full-Depth Patching	SF
Blow-up	Medium	PCC Full-Depth Patching	SF
Blow-up	High	PCC Slab Replacement	SF
Corner Break	Low	Monitor Pavement	-
Corner Break	Medium	PCC Full-Depth Patching	SF
Corner Break	High	PCC Full-Depth Patching	SF
Linear Cracking	Low	Monitor Pavement	-
Linear Cracking	Medium	PCC Crack Sealing	LF
Linear Cracking	High	PCC Full-Depth Patching	SF
Durability Cracking	Low	Monitor Pavement	-
Durability Cracking	Medium	PCC Full-Depth Patching	SF
Durability Cracking	High	PCC Slab Replacement	SF
Jt. Seal Damage	Low	PCC Joint Seal	LF
Jt. Seal Damage	Medium	PCC Joint Seal	LF
Jt. Seal Damage	High	PCC Joint Seal	LF
Small Patch	Low	Monitor Pavement	-
Small Patch	Medium	PCC Partial-Depth Patching	SF
Small Patch	High	PCC Partial-Depth Patching	SF
Large Patch	Low	Monitor Pavement	-
Large Patch	Medium	PCC Full-Depth Patching	SF
Large Patch	High	PCC Full-Depth Patching	SF
Popouts	N/A	Monitor Pavement	-
Pumping	N/A	Monitor Pavement	-
Scaling	Low	Monitor Pavement	-
Scaling	Medium	PCC Partial-Depth Patching	SF

Distress	Severity	Localized Work Type	Work Type Unit
Scaling	High	PCC Slab Replacement	SF
Faulting	Low	Monitor Pavement	-
Faulting	Medium	Grinding	SF
Faulting	High	PCC Slab Replacement	SF
Shattered Slab	Low	PCC Crack Sealing	LF
Shattered Slab	Medium	PCC Slab Replacement	SF
Shattered Slab	High	PCC Slab Replacement	SF
Shrinkage Cracking	N/A	Monitor Pavement	-
Joint Spall	Low	Monitor Pavement	-
Joint Spall	Medium	PCC Partial-Depth Patching	SF
Joint Spall	High	PCC Partial-Depth Patching	SF
Corner Spall	Low	Monitor Pavement	-
Corner Spall	Medium	PCC Partial-Depth Patching	SF
Corner Spall	High	PCC Partial-Depth Patching	SF
ASR	Low	Monitor Pavement	-
ASR	Medium	PCC Slab Replacement	SF
ASR	High	PCC Slab Replacement	SF

Table 5.4.4 (b): Localized Stopgap Maintenance and Repair Policy

Distress	Severity	Localized Work Type	Work Type Unit
Alligator Cracking	Low	Monitor Pavement	-
Alligator Cracking	Medium	AC Full-Depth Patching	SF
Alligator Cracking	High	AC Full-Depth Patching	SF
Bleeding	N/A	Monitor Pavement	-
Block Cracking	Low	Monitor Pavement	-
Block Cracking	Medium	Monitor Pavement	-
Block Cracking	High	AC Crack Sealing	LF
Corrugation	Low	Monitor Pavement	-
Corrugation	Medium	Monitor Pavement	-
Corrugation	High	AC Full-Depth Patching	SF
Depression	Low	Monitor Pavement	-
Depression	Medium	Monitor Pavement	-
Depression	High	AC Full-Depth Patching	SF
Jet Blast	N/A	Monitor Pavement	-
Jt. Reflective Cracking	Low	Monitor Pavement	-

Distress	Severity	Localized Work Type	Work Type Unit
Jt. Reflective Cracking	Medium	Monitor Pavement	-
Jt. Reflective Cracking	High	AC Crack Sealing	LF
L&T Cracking	Low	Monitor Pavement	-
L&T Cracking	Medium	Monitor Pavement	-
L&T Cracking	High	AC Crack Sealing	LF
Oil Spillage	N/A	Monitor Pavement	-
Patching	Low	Monitor Pavement	-
Patching	Medium	Monitor Pavement	-
Patching	High	AC Full-Depth Patching	SF
Polished Aggregate	N/A	Monitor Pavement	-
Raveling	Low	Monitor Pavement	-
Raveling	Medium	Monitor Pavement	-
Raveling	High	AC Partial-Depth Patching	SF
Rutting	Low	Monitor Pavement	-
Rutting	Medium	Monitor Pavement	-
Rutting	High	AC Full-Depth Patching	SF
Shoving	Low	Monitor Pavement	-
Shoving	Medium	Monitor Pavement	-
Shoving	High	AC Full-Depth Patching	SF
Slippage Cracking	N/A	AC Full-Depth Patching	SF
Swelling	Low	Monitor Pavement	-
Swelling	Medium	Monitor Pavement	-
Swelling	High	AC Full-Depth Patching	SF
Weathering	Low	Monitor Pavement	-
Weathering	Medium	Monitor Pavement	-
Weathering	High	Surface Seal	SF
Blow-up	Low	Monitor Pavement	-
Blow-up	Medium	PCC Full-Depth Patching	SF
Blow-up	High	PCC Slab Replacement	SF
Corner Break	Low	Monitor Pavement	-
Corner Break	Medium	PCC Full-Depth Patching	SF
Corner Break	High	PCC Full-Depth Patching	SF
Linear Cracking	Low	Monitor Pavement	-
Linear Cracking	Medium	PCC Crack Sealing	LF
Linear Cracking	High	PCC Crack Sealing	LF
Durability Cracking	Low	Monitor Pavement	-

Distress	Severity	Localized Work Type	Work Type Unit
Durability Cracking	Medium	PCC Full-Depth Patching	SF
Durability Cracking	High	PCC Slab Replacement	SF
Jt. Seal Damage	Low	Monitor Pavement	-
Jt. Seal Damage	Medium	Monitor Pavement	-
Jt. Seal Damage	High	PCC Joint Seal	LF
Small Patch	Low	Monitor Pavement	-
Small Patch	Medium	Monitor Pavement	-
Small Patch	High	PCC Partial-Depth Patching	SF
Large Patch	Low	Monitor Pavement	-
Large Patch	Medium	Monitor Pavement	-
Large Patch	High	PCC Full-Depth Patching	SF
Popouts	N/A	Monitor Pavement	-
Pumping	N/A	Monitor Pavement	-
Scaling	Low	Monitor Pavement	-
Scaling	Medium	Monitor Pavement	-
Scaling	High	PCC Slab Replacement	SF
Faulting	Low	Monitor Pavement	-
Faulting	Medium	Monitor Pavement	-
Faulting	High	PCC Slab Replacement	SF
Shattered Slab	Low	Monitor Pavement	-
Shattered Slab	Medium	PCC Crack Sealing	LF
Shattered Slab	High	PCC Slab Replacement	SF
Shrinkage Cracking	N/A	Monitor Pavement	-
Joint Spall	Low	Monitor Pavement	-
Joint Spall	Medium	PCC Partial-Depth Patching	SF
Joint Spall	High	PCC Partial-Depth Patching	SF
Corner Spall	Low	Monitor Pavement	-
Corner Spall	Medium	PCC Partial-Depth Patching	SF
Corner Spall	High	PCC Partial-Depth Patching	SF
ASR	Low	Monitor Pavement	-
ASR	Medium	PCC Slab Replacement	SF
ASR	High	PCC Slab Replacement	SF

5.5 Major Rehabilitation

Major rehabilitation is recommended to correct or improve structural deficiencies and/or functional deterioration. 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 that can meet the structural demands of traffic loading. Major rehabilitation is generally described as a pavement construction that removes and replaces the pavement surface, thus resetting the PCI value to 100 and the pavement age to zero. Typical policies include full- and partial-depth reconstruction and mill and overlay.

5.5.1 Major Rehabilitation Pavement Section Development

Once the timing of the major rehabilitation activity is determined based on the PCI value, existing as-built record documentation is used to determine typical rehabilitation processes and pavement sections. Refinement of the pavement section layers is performed in consideration of the FAA AC 150/5320-6F. It should be noted that no subsurface geotechnical investigation, American Land Title Association (ALTA)/American Congress on Surveying and Mapping (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.

Major rehabilitation is divided into two policy categories as part of this System Update: Full-Depth Reconstruction (Reconstruction) and Intermediate Major Rehabilitation (Rehabilitation). Based on the pavement type, the general categories are defined as AC Reconstruction and AC Rehabilitation for AC, AAC, and APC pavement types; and PCC Reconstruction and PCC Rehabilitation for PCC pavement types. The pavement sections are based on the average GA Airport Type requirements; no pavement design has been performed in accordance with the FAA AC 150/5320-6F for the determined conceptual sections. **Table 5.5.1** provide details on the conceptual pavement sections developed for this study.

Table 5.5.1: Conceptual Pavement Sections for Major Rehabilitation

Rehabilitation Type	General Aviation Pavement Section
AC Reconstruction	
Full-depth asphalt pavement section reconstruction. Removal of existing pavement section and construction of a new section. **PCI = 54 or less**	Pavement Removal
	Unclassified Excavation
	Subgrade Stabilization (12")
	Limerock Base Course (6")
	Prime Coat
	Tack Coat
	P-401 Surface Course (3")
	Excludes any paved shoulder features
AC Rehabilitation	
Combination of asphalt pavement milling and replacement overlay with 25% of the areas subject to full-depth reconstruction. **PCI = 55 to 69**	**25% AC Reconstruction**
	Mill and Overlay
	AC Milling (3")
	Tack Coat
	P-401 Surface Course (3")
	Excludes any paved shoulder features
PCC Reconstruction	
Full-depth rigid pavement section reconstruction. **PCI = 54 or less**	Pavement Removal
	Unclassified Excavation
	Subgrade Stabilization (6")
	Limerock Base Course (6")
	P-501 PCC Pavement (8")
	PCC Joint Seal
PCC Rehabilitation	
Rehabilitation of PCC pavement with a combination of crack sealing, joint seal replacement, limited patching, and replacement of 25% of slab panels. **PCI = 55 to 69**	**25% Slab Replacement**
	Joint and Crack Seal
	Limited Patching

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. **This type of construction typically warrants consideration for non-pavement efforts that may include drainage, turfing, electrical lighting, pavement marking, construction contingency, mobilization costs, and project soft costs.**

Reconstruction (AC or PCC)

Reconstruction is the removal and replacement of the existing AC or PCC pavement and base layer and includes preparation of the existing subgrade material. This technique is utilized when the pavement is badly deteriorated or a structural improvement is required. Reconstruction is used when the pavements are structurally deficient and an overlay is not possible due to adjacent pavement grades.

AC Rehabilitation

AC Rehabilitation, for the purposes of this SAPMP, is a removal of all or a portion of the asphalt surface through milling and replacing the milled depth with an overlay of asphalt. This rehabilitation activity is typically applied to pavement that does not require a structural improvement and does not display an extensive amount of load-related distresses. However, this work type conservatively accounts for 25% of the planned area to receive a full-depth replacement of the pavement structure. This is meant to capture any deficiencies that may not be apparent from a visual evaluation of the surface of the pavement. This work type occurs on pavement sections with a PCI value above 54. As a general rule of thumb, intermediate rehabilitation activities have a shorter pavement life compared to a full-depth reconstruction, but AC Rehabilitation will still reset the pavement to a PCI of 100.

PCC Rehabilitation

PCC Rehabilitation, for the purposes of this SAPMP, is a planning-level estimate of several concurrent PCC maintenance activities intended to raise the PCI above Critical without reconstructing the entire area. This work type accounts for the replacement of 25% of the slabs as well as a PCC patching, crack sealing, and joint sealing for areas outside of the panel replacement. This work type occurs on pavement sections with a PCI value above 54.

5.5.2 Major Rehabilitation Planning-Level Unit Costs

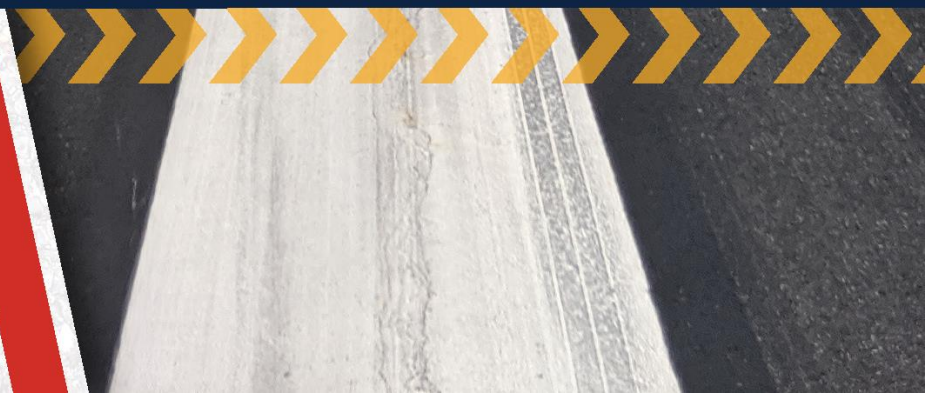
Planning-level opinions of probable construction cost developed for this System Update are based on archived bid tabulations and records from airfield pavement projects provided by participating airports. A review of cost trends and cost factors have been incorporated to assist airports in planning for project budgets.

Neither the FDOT nor the Consultant team have control over the cost of labor, materials, equipment, 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 the FDOT at this time and represent only the Consultant team's judgment as a design professional familiar with the construction industry. This Report cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable construction costs. **Table 5.5.2** depicts the associated work type planning-level unit costs for Major Rehabilitation for each pavement type.

Table 5.5.2: GA Major Rehabilitation Planning-Level Unit Cost by Pavement Type

Rehabilitation Type	PCI Range	Asphalt Concrete Cost per SF	Portland Cement Concrete Cost Per SF
Rehabilitation	55 to 69	$ 7.00	$ 14.00
Reconstruction	0 to 54	$ 10.50	$ 22.25

Chapter 6: M&R Planning and Budget Scenario Analysis



Chapter 6 – M&R Planning and Budget Scenario Analysis

6.1 Localized Maintenance and Repair Analysis and Recommendations

This FDOT SAPMP System Update provides a planning-level estimation of Localized Maintenance and Repair costs based on the results of the latest PCI assessment performed at the Airport. Due to the limited sample units inspected in certain pavement sections, a statistical extrapolation of distresses is used to estimate the quantities of recommended repair activities at the section level, based the policies defined in **5.4.4 Localized Maintenance and Repair Policy**. These work quantities are limited to a near-term application since they were determined directly from the PCI assessment efforts. As pavements continue to deteriorate year-to-year, quantities and/or distress severities may increase, which will affect the amount and type of localized maintenance required. This analysis can be utilized as a planning tool to assist airport staff in determining an annual budget allocation for maintenance activities that will help maintain airport pavements above the critical PCI value and extend the life of the pavement.

Table 6.1 (a) provides a summary of the anticipated planning-level costs for Year 1 Localized Preventive Maintenance and Localized Stopgap Maintenance. The following table depicts planning-level costs rounded up to the next 10-dollar increment.

Table 6.1 (a): Year 1 Summary of Localized Maintenance

Work Category	Cost	
Preventive	$	16,570
Stopgap	$	144,520
Planning-Level Localized M&R Needs =	***$***	***161,090***

Localized Preventive Maintenance is typically applied to pavements that are in a condition above the critical PCI value of the pavement section. Localized Stopgap Maintenance is typically applied to pavement sections that are at or below the critical PCI value. Application of localized maintenance and repair should be coordinated with the planning of Major Rehabilitation efforts identified through the major rehabilitation analysis. Pavements with stopgap recommendations that are subject to near-term major rehabilitation efforts may remove the need to perform localized (stopgap) maintenance efforts in subsequent years.

Table 6.1 (b) summarizes the anticipated Year 1 Localized Maintenance recommendations by work type, based on the PCI assessment efforts performed as part of this SAPMP System Update. The following table depicts planning-level costs rounded up to the next 10-dollar increment.

Table 6.1 (b): Year 1 Localized Maintenance by Work Type Summary

Localized Maintenance Category	Localized Work Type	Rough Estimate of Work Quantity	Work Units	Planning Material Cost
Localized Preventive Maintenance	Surface Seal	28,455	SF	$ 14,280
	PCC Joint Seal	597	LF	$ 1,950
	PCC Partial-Depth Patching	2	SF	$ 340
Localized Stopgap Maintenance	AC Partial-Depth Patching	4,354	SF	$ 16,330
	AC Full-Depth Patching	2,426	SF	$ 18,210
	PCC Crack Sealing	450	LF	$ 2,260
	PCC Joint Seal	2,900	LF	$ 9,430
	PCC Partial-Depth Patching	601	SF	$ 75,220
	PCC Full-Depth Patching	194	SF	$ 9,700
	PCC Slab Replacement	346	SF	$ 13,370

Table 6.1 (c) provides a breakdown of the anticipated planning-level costs by section for those areas exhibiting distresses that would benefit from Year 1 Localized M&R. The table shows the approximate improved "End Condition" PCI value of the section after the application of Localized M&R. This approximation is intended to depict a planning-level estimate of the effect of the localized M&R on the section-level PCI; the performance of the work does not guarantee the pavement will not deteriorate in other ways outside of the described treatment. The following table depicts planning-level costs rounded up to the next 10-dollar increment.

Table 6.1 (c): Section-Level Year 1 Localized M&R Planning Cost Summary

Network ID	Branch ID	Section ID	Area (SF)	Start PCI	End PCI	Cost
2IS	RW 13-31	6103	114,068	87	92	$ 4,120
2IS	RW 13-31	6105	225,000	90	93	$ 5,360
2IS	RW 13-31	6110	106,482	86	90	$ 2,670
2IS	TW A	103	74,342	59	59	$ -
2IS	TW A	105	37,814	74	78	$ 670
2IS	TW A	120	13,720	86	90	$ 350
2IS	TW A	125	109,989	61	61	$ -
2IS	TW A1	104	26,288	69	69	$ -
2IS	TW A1	110	2,235	77	80	$ 30
2IS	TW A2	205	4,599	83	86	$ 120
2IS	TW A2	210	38,437	54	54	$ -
2IS	TW A2	215	41,410	36	36	$ -
2IS	TW A3	410	34,501	64	64	$ -
2IS	TW A3	415	6,096	85	89	$ 160
2IS	TW AP E	710	15,760	59	59	$ -
2IS	TW AP W	305	2,718	43	43	$ -
2IS	TW HANG	405	33,514	13	21	$ 12,300
2IS	TW HANG	407	3,153	85	89	$ 80
2IS	TW S	605	45,015	58	58	$ -
2IS	AP E	4505	102,944	35	35	$ -
2IS	AP HANG	4205	6,912	9	29	$ 23,920
2IS	AP HANG	4210	14,280	82	87	$ 720

Network ID	Branch ID	Section ID	Area (SF)	Start PCI	End PCI	Cost
2IS	AP HANG	4215	2,850	84	94	$ 2,280
2IS	AP NW	4405	52,932	43	48	$ 4,200
2IS	AP NW	4410	2,604	8	32	$ 3,030
2IS	AP S	4305	59,100	23	31	$ 16,330
2IS	AP W	4105	89,758	31	31	$ 620
2IS	AP W	4110	14,618	54	81	$ 83,000
2IS	AP W	4115	23,595	46	48	$ 1,090

6.2 Major Rehabilitation Needs

Major rehabilitation is identified within the FDOT SAPMP as a major construction activity that results in a substantial improvement to the pavement condition and resets the pavement section's PCI value to 100. Major rehabilitation recommendations (AC Rehabilitation, AC Reconstruction, PCC Rehabilitation, and PCC Reconstruction) should be considered as planning-level only. Additional design-level investigation in accordance with FAA Advisory Circulars is required. Recommendations identified within this planning document do not imply final design.

The objective of the Major Pavement Rehabilitation Needs analysis is to develop planning-level projects within an Airport's airfield pavement network. As depicted in **Figures 5.3 (b) and (c)** in **Chapter 5**, 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 a cost-effective solution. In addition, major rehabilitation is also recommended when the section's PCI value is above the critical PCI value with the section exhibiting a significant amount of load-related distresses. Identification of rehabilitation needs is done at the section-level. This, however, does not limit the Airport from further refining limits of project planning areas.

6.2.1 10-Year Unconstrained Budget Major Rehabilitation Needs

Major rehabilitation needs are identified by analyzing the airport's pavement condition in relationship to critical PCI values, major rehabilitation policies, and unit costs, assuming there are no budget constraints. This is done over a 10-year analysis period. While this is financially impractical, it does yield the unbiased pavement needs over a 10-year time frame at the airport given current and forecasted pavement conditions. The FDOT recognizes that airports are constrained by budgets and does not intend to convey an unrealistic approach of addressing pavement rehabilitation. Each airport has a unique set of challenges and FDOT's goals are to provide it with the data needed to formulate a practical Capital Improvement Program and identify needs in the Joint Automated Capital Improvement Program (JACIP). This includes:

- An estimation of current pavement condition;
- Major pavement rehabilitation needs based on condition and policies; and
- Planning-level cost estimates for the major rehabilitation needs.

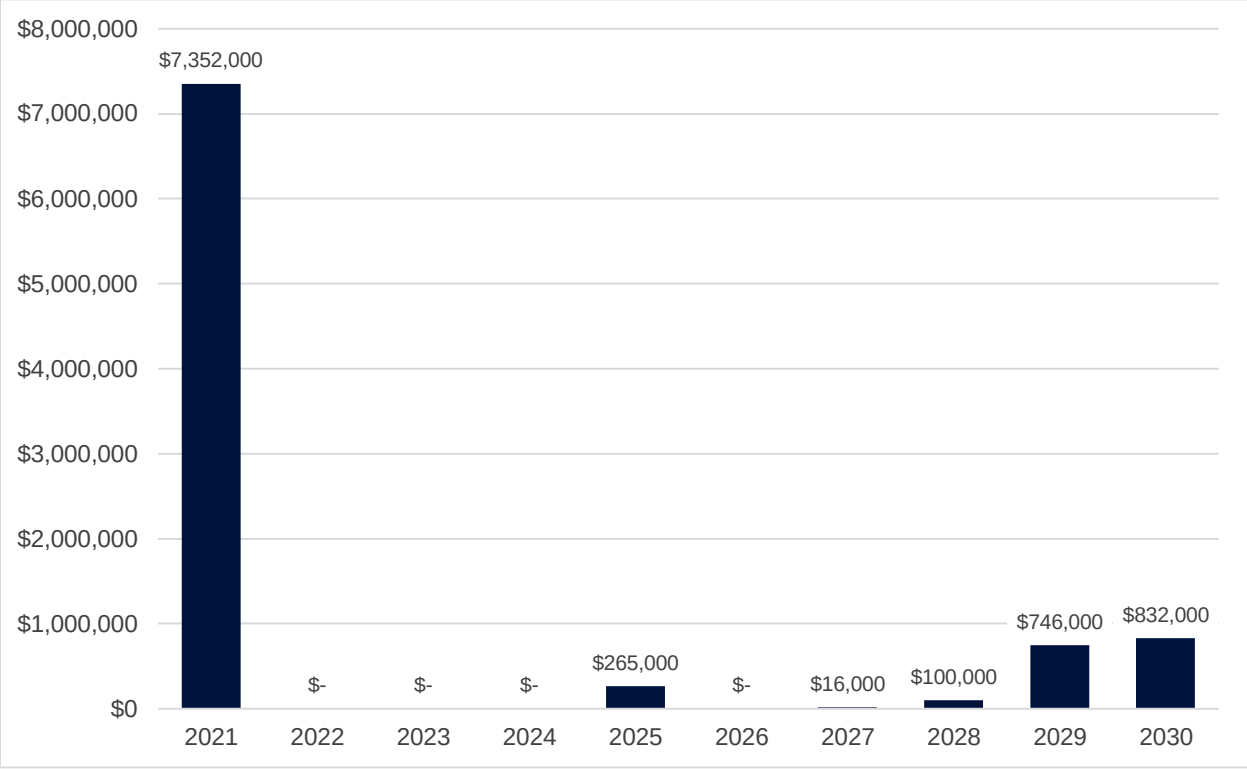
Table 6.2.1 (a) summarizes section-level major rehabilitation needs forecasted for a 10-year period. It should be noted that the following table depicts planning-level costs and has been rounded up to the nearest $1,000 for planning purposes.

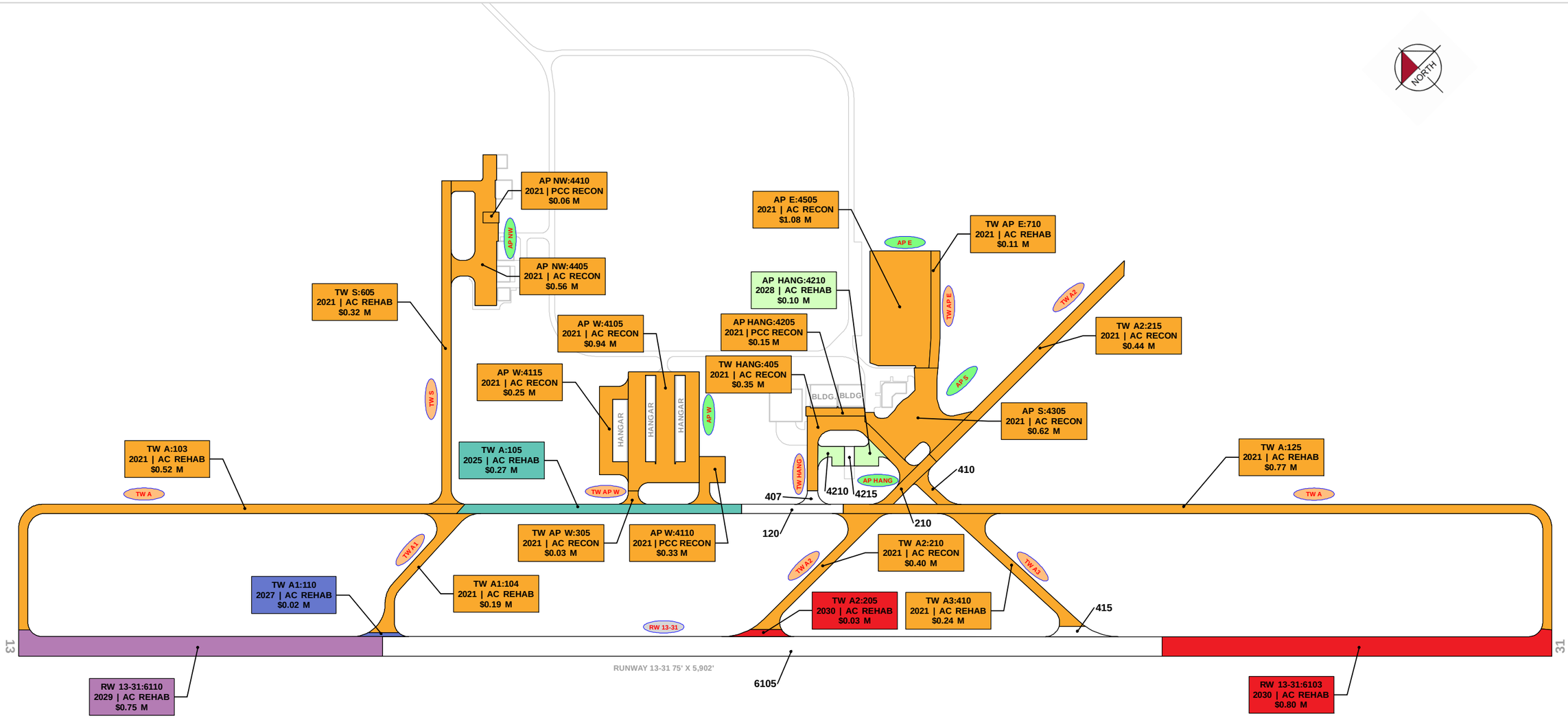
Table 6.2.1 (a): Section-Level 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2021	**2IS**	TW A	103	AAC	74,342	59	AC Rehabilitation	$ 521,000
2021	**2IS**	TW A	125	AC	109,989	61	AC Rehabilitation	$ 770,000
2021	**2IS**	TW A1	104	AAC	26,288	69	AC Rehabilitation	$ 185,000
2021	**2IS**	TW A2	210	AAC	38,437	53	AC Reconstruction	$ 404,000
2021	**2IS**	TW A2	215	AC	41,410	36	AC Reconstruction	$ 435,000
2021	**2IS**	TW A3	410	AC	34,501	64	AC Rehabilitation	$ 242,000
2021	**2IS**	TW AP E	710	AC	15,760	59	AC Rehabilitation	$ 111,000
2021	**2IS**	TW AP W	305	AAC	2,718	42	AC Reconstruction	$ 29,000
2021	**2IS**	TW HANG	405	AAC	33,514	11	AC Reconstruction	$ 352,000
2021	**2IS**	TW S	605	AC	45,015	58	AC Rehabilitation	$ 316,000
2021	**2IS**	AP E	4505	AC	102,944	35	AC Reconstruction	$ 1,081,000
2021	**2IS**	AP HANG	4205	PCC	6,912	9	PCC Reconstruction	$ 154,000
2021	**2IS**	AP NW	4405	AC	52,932	43	AC Reconstruction	$ 556,000
2021	**2IS**	AP NW	4410	PCC	2,604	8	PCC Reconstruction	$ 58,000
2021	**2IS**	AP S	4305	AAC	59,100	22	AC Reconstruction	$ 621,000
2021	**2IS**	AP W	4105	AAC	89,758	30	AC Reconstruction	$ 943,000
2021	**2IS**	AP W	4110	PCC	14,618	54	PCC Reconstruction	$ 326,000
2021	**2IS**	AP W	4115	AC	23,595	46	AC Reconstruction	$ 248,000
2025	**2IS**	TW A	105	AAC	37,814	69	AC Rehabilitation	$ 265,000
2027	**2IS**	TW A1	110	AC	2,235	68	AC Rehabilitation	$ 16,000
2028	**2IS**	AP HANG	4210	AC	14,280	69	AC Rehabilitation	$ 100,000
2029	**2IS**	RW 13-31	6110	AAC	106,482	69	AC Rehabilitation	$ 746,000
2030	**2IS**	RW 13-31	6103	AAC	114,068	68	AC Rehabilitation	$ 799,000
2030	**2IS**	TW A2	205	AC	4,599	69	AC Rehabilitation	$ 33,000

Figure 6.2.1 (a) summarizes the section-level major rehabilitation needs for a 10-year period between 2021 and 2030. **Figure 6.2.1 (b)**, the Airfield Pavement Major Rehabilitation Exhibit, graphically depicts the major rehabilitation needs with rounded costs. As suggested previously, this is planning-level data that can be used by the Airport to support developing a practical CIP.

Figure 6.2.1 (a): 10-Year Major Rehabilitation Needs by Program Year





LEGEND

RW 13-31 — TYPICAL RUNWAY BRANCH ID

TW A — TYPICAL TAXIWAY BRANCH ID

AP S — TYPICAL APRON BRANCH ID

PROGRAM YEAR

2021	2026
2022	2027
2023	2028
2024	2029
2025	2030

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

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

2IS

AIRFIELD PAVEMENT MAJOR REHABILITATION EXHIBIT

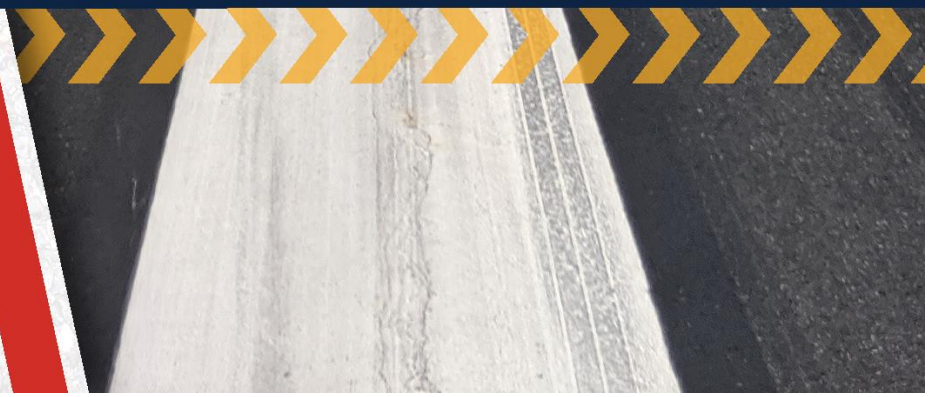
Statewide Airfield Pavement Management Program

AIRGLADES AIRPORT

FDOT

2021

Chapter 7: Conclusion



Chapter 7 – Conclusion

7.1 Recommendations

7.1.1 Continued PCI Surveys

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

A high priority should be placed on maintaining good record keeping and re-inspecting the Airport's maintained pavement facilities to ensure continued safe aircraft operations. Per the FAA AC 150/5380-7B, 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 prevented, applying timely and effective maintenance efforts can slow the anticipated rate of deterioration. Lack of adequate and timely maintenance is a significant factor in pavement deterioration. **Chapter 6** identified localized maintenance and repair needs. 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 also identified major pavement rehabilitation project needs from 2021-2030. Identification of these rehabilitation needs are performed at the section level for manageable project areas and assume an unconstrained budget scenario. Given the uncertainty in Airport-specific budget information and prioritization goals, the unconstrained budget scenario represents a conservative scenario and identifies pavement needs over a 10-year period. Certainly, it is understood that most airports are faced with constrained budgets, thus 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 based on the recommendations provided in **Section 6.1**;
- Further refine and implement the identified 10-year major rehabilitation needs provided in **Section 6.2**;
- Maintain detailed records on pavement maintenance, construction, and inspection; and
- Maintain records on major pavement construction projects (year, scope, cost, and construction documents).

7.2 Supporting Documents

Airfield Pavement Network Definition Exhibit

The Airfield Pavement Network Definition Exhibit is located in **Chapter 3** and **Appendix C**. 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 details can be found on the Airport's adopted Airport Layout Plan. Detailed characteristics are tabulated in **Appendix A.**

Airfield Pavement System Inventory Exhibit

The Airfield Pavement System Inventory Exhibit is located in **Chapter 3** and **Appendix C**. The Exhibit depicts 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 work 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.

Airfield Pavement Estimated Age Exhibit

The Airfield Pavement Estimated Age Exhibit is located in **Chapter 3** and **Appendix C**. Based on the review of historic airfield pavement construction activities, the Exhibit provides the approximate limits of the age of the pavement sections since the last 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.

Airfield Pavement Condition Index Exhibit

The Airfield Pavement Condition Index Exhibit is located in **Chapter 4** and **Appendix C**. The Exhibit is a visual summary of the latest conditions reported from the PCI assessment performed at the Airport. Distress analysis occurred in accordance with ASTM D5340-12 (referenced in **Appendix E**), with results being analyzed using PAVER™ software to determine PCI values. The PCI values are identified in the Exhibit and graphically represented using the standard ASTM D5340-12 condition rating categories.

Airfield Pavement Major Rehabilitation Exhibit

The Airfield Pavement Major Rehabilitation Exhibit is located in **Chapter 6** and **Appendix C**. 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. 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**.

Inspection Photograph Documentation

Representative field conditions from the PCI assessment are documented with digital photographs located in **Appendix D**. Select photographs are provided with a limited caption on the distress(es) observed. "Vicinity" photos refer to the approximate boundaries of an inspected sample unit within the section and provide an overview of the section condition but are not focused on a specific distress. The Appendix does not contain photographs for every section and sample unit.

7.3 Conclusion

The FDOT SAPMP System Update Phase 1 2020-2021 was completed for the Airport on behalf of the FDOT AO in accordance with the FAA AC 150/5380-7B and 150/5380-6C. 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.

7.4 References

The following documents are 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, survey guidelines, and recommended methods of repair.

- ASTM D5340-12, Standard Test Method for Airport Pavement Condition Index Surveys, American Society for Testing and Materials, West Conshohocken, PA, 2018.
- AC 150/5210-24 Airport Foreign Object Debris (FOD) Management, Federal Aviation Administration, Washington, D.C., 2010.
- AC 150/5320-6F, Airport Pavement Design and Evaluation, Federal Aviation Administration, Washington, D.C., 2016.
- AC 150/5380-7B, Airport Pavement Management Program (PMP), Federal Aviation Administration, Washington, D.C., 2014.
- AC 150/5380-6C, Guidelines and Procedures for Maintenance of Airport Pavements, Federal Aviation Administration, Washington, D.C., 2014.
- AC 150/5370-10H, Standard Specifications for Construction of Airports, Federal Aviation Administration, Washington, D.C., 2018.
- Airport Improvement Program Handbook, Order 5100.38D, Change 1, Federal Aviation Administration, Washington, D.C., 2019.
- Tri-Service Pavements Working Group (TSPWG) Manual 3-270-08. 14-03, Preventive Maintenance Plan (PMP) for Airfield Pavements, Department of Defense, Washington, D.C., 2019.
- Unified Facilities Criteria (UFC) 3-260-16, O&M Manual: Standard Practice for Airfield Pavement Condition Surveys, Department of Defense, Washington, D.C., 2019.
- Unified Facilities Criteria (UFC) 3-260-03, Airfield Pavement Evaluation, Department of Defense, Washington, D.C., 2001.
- Shahin, Mohamed Y., Pavement Management for Airports, Roads, and Parking Lots, Springer, 2005.

Appendix A: Airfield Pavement Analysis

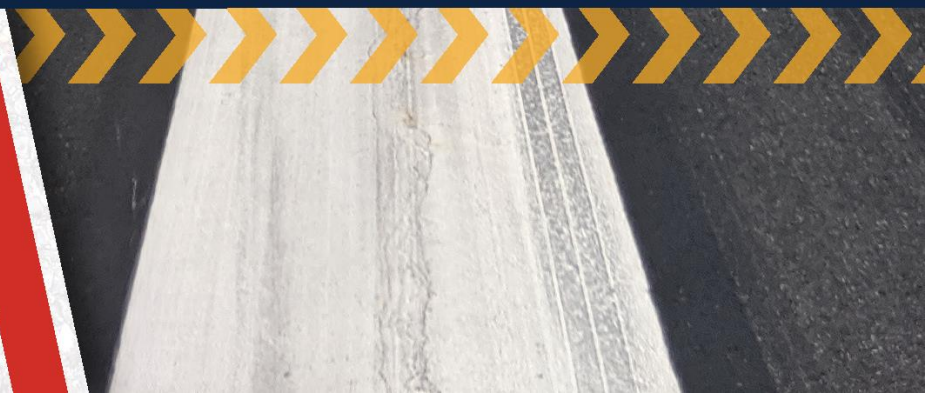


Table A.1: Pavement System Inventory Details

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface Type	Estimate of Last Construction Date
2IS	RW 13-31	Runway	6103	114,068	AAC	2/1/2011
2IS	RW 13-31	Runway	6105	225,000	AC	2/1/2011
2IS	RW 13-31	Runway	6110	106,482	AAC	2/1/2011
2IS	TW A	Taxiway	103	74,342	AAC	1/1/1996
2IS	TW A	Taxiway	105	37,814	AAC	1/1/1996
2IS	TW A	Taxiway	120	13,720	AC	1/1/2011
2IS	TW A	Taxiway	125	109,989	AC	1/1/1996
2IS	TW A1	Taxiway	104	26,288	AAC	1/1/1996
2IS	TW A1	Taxiway	110	2,235	AC	2/11/2011
2IS	TW A2	Taxiway	205	4,599	AC	2/1/2011
2IS	TW A2	Taxiway	210	38,437	AAC	1/1/1996
2IS	TW A2	Taxiway	215	41,410	AC	1/1/1984
2IS	TW A3	Taxiway	410	34,501	AC	1/1/1996
2IS	TW A3	Taxiway	415	6,096	AC	2/1/2011
2IS	TW AP E	Taxiway	710	15,760	AC	12/25/1999
2IS	TW AP W	Taxiway	305	2,718	AAC	1/1/1996
2IS	TW HANG	Taxiway	405	33,514	AAC	1/1/1984
2IS	TW HANG	Taxiway	407	3,153	AC	1/1/2011
2IS	TW S	Taxiway	605	45,015	AC	1/1/1996
2IS	AP E	Apron	4505	102,944	AC	12/25/1999
2IS	AP HANG	Apron	4205	6,912	PCC	1/1/1982
2IS	AP HANG	Apron	4210	14,280	AC	12/25/1999
2IS	AP HANG	Apron	4215	2,850	PCC	12/25/1999
2IS	AP NW	Apron	4405	52,932	AC	12/25/1999
2IS	AP NW	Apron	4410	2,604	PCC	12/25/1999
2IS	AP S	Apron	4305	59,100	AAC	1/1/1984
2IS	AP W	Apron	4105	89,758	AAC	1/1/1996
2IS	AP W	Apron	4110	14,618	PCC	12/25/1999
2IS	AP W	Apron	4115	23,595	AC	9/1/2005

Table A.2: Pavement Condition Index Summary (Current PCI Survey) – Section Level

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
2IS	RW 13-31	Runway	6103	114,068	87	Good
2IS	RW 13-31	Runway	6105	225,000	90	Good
2IS	RW 13-31	Runway	6110	106,482	86	Good
2IS	TW A	Taxiway	103	74,342	59	Fair
2IS	TW A	Taxiway	105	37,814	74	Satisfactory
2IS	TW A	Taxiway	120	13,720	86	Good
2IS	TW A	Taxiway	125	109,989	61	Fair
2IS	TW A1	Taxiway	104	26,288	69	Fair
2IS	TW A1	Taxiway	110	2,235	77	Satisfactory
2IS	TW A2	Taxiway	205	4,599	83	Satisfactory
2IS	TW A2	Taxiway	210	38,437	54	Poor
2IS	TW A2	Taxiway	215	41,410	36	Very Poor
2IS	TW A3	Taxiway	410	34,501	64	Fair
2IS	TW A3	Taxiway	415	6,096	85	Satisfactory
2IS	TW AP E	Taxiway	710	15,760	59	Fair
2IS	TW AP W	Taxiway	305	2,718	43	Poor
2IS	TW HANG	Taxiway	405	33,514	13	Serious
2IS	TW HANG	Taxiway	407	3,153	85	Satisfactory
2IS	TW S	Taxiway	605	45,015	58	Fair
2IS	AP E	Apron	4505	102,944	35	Very Poor
2IS	AP HANG	Apron	4205	6,912	9	Failed
2IS	AP HANG	Apron	4210	14,280	82	Satisfactory
2IS	AP HANG	Apron	4215	2,850	84	Satisfactory
2IS	AP NW	Apron	4405	52,932	43	Poor
2IS	AP NW	Apron	4410	2,604	8	Failed
2IS	AP S	Apron	4305	59,100	23	Serious
2IS	AP W	Apron	4105	89,758	31	Very Poor
2IS	AP W	Apron	4110	14,618	54	Poor
2IS	AP W	Apron	4115	23,595	46	Poor

Table A.3: Forecasted PCI Values 2021-2030 – Section-Level

Network ID	Branch ID	Section ID	Current PCI	Forecasted PCI									
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2IS	RW 13-31	6103	87	86	84	82	80	78	76	74	72	70	68
2IS	RW 13-31	6105	90	89	87	86	84	82	81	79	78	76	75
2IS	RW 13-31	6110	86	85	83	81	79	77	75	73	71	69	67
2IS	TW A	103	59	59	57	56	54	52	51	49	47	44	42
2IS	TW A	105	74	74	72	71	70	69	67	66	65	64	63
2IS	TW A	120	86	85	83	81	80	78	77	75	74	72	71
2IS	TW A	125	61	61	60	59	59	58	57	57	56	56	55
2IS	TW A1	104	69	69	67	66	65	64	63	62	60	59	58
2IS	TW A1	110	77	76	75	73	72	71	70	68	67	66	65
2IS	TW A2	205	83	82	80	79	77	76	74	73	71	70	69
2IS	TW A2	210	54	53	52	50	48	46	43	41	38	36	33
2IS	TW A2	215	36	36	35	34	32	31	30	28	27	26	24
2IS	TW A3	410	64	64	63	62	61	60	60	59	58	58	57
2IS	TW A3	415	85	84	82	81	79	77	76	74	73	72	70
2IS	TW AP E	710	59	59	58	58	57	57	56	55	55	54	54
2IS	TW AP W	305	43	42	39	37	34	31	27	24	21	18	15
2IS	TW HANG	405	13	11	8	5	2	0	0	0	0	0	0
2IS	TW HANG	407	85	84	82	81	79	77	76	74	73	72	70
2IS	TW S	605	58	58	57	57	56	56	55	55	54	54	53
2IS	AP E	4505	35	35	35	34	34	33	33	32	31	31	30
2IS	AP HANG	4205	9	9	8	7	6	5	4	3	2	1	0
2IS	AP HANG	4210	82	81	79	77	76	74	72	71	69	68	66
2IS	AP HANG	4215	84	84	83	82	81	80	79	78	77	76	75
2IS	AP NW	4405	43	43	43	42	42	41	41	40	40	39	39
2IS	AP NW	4410	8	8	7	6	5	4	3	2	1	0	0
2IS	AP S	4305	23	22	21	19	18	16	15	13	11	10	8
2IS	AP W	4105	31	30	29	27	26	24	23	21	19	18	16
2IS	AP W	4110	54	54	53	52	51	50	49	48	47	46	45
2IS	AP W	4115	46	46	45	45	44	44	43	43	42	42	41

Pavement Database: FDOT

Network: AIRGLADES AIRPO **Branch:** AP E EAST APRON **Section:** 4505 **Surface:**AC
L.C.D. 12/25/199 **Use:** APRON **Rank:** P **Length:** 440.00 (Ft) **Width:** 230.00 (Ft) **Est. Area:** 102944.0000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	NU-IN	New Construction - Initial	0.00	0.00	☑	

Network: AIRGLADES AIRPO **Branch:** AP HANG HANGAR APRO **Section:** 4205 **Surface:**PCC
L.C.D. 1/1/1982 **Use:** APRON **Rank:** P **Length:** 36.00 (Ft) **Width:** 226.00 (Ft) **Est. Area:** 6912.000002 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1982	IMPORTED	BUILT	0.00	0.00	☑	EST 1982 PCC

Network: AIRGLADES AIRPO **Branch:** AP HANG HANGAR APRO **Section:** 4210 **Surface:**AC
L.C.D. 12/25/199 **Use:** APRON **Rank:** P **Length:** 200.00 (Ft) **Width:** 75.00 (Ft) **Est. Area:** 14280.00000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	NU-IN	New Construction - Initial	0.00	0.00	☑	

Network: AIRGLADES AIRPO **Branch:** AP HANG HANGAR APRO **Section:** 4215 **Surface:**PCC
L.C.D. 12/25/199 **Use:** APRON **Rank:** P **Length:** 125.00 (Ft) **Width:** 38.00 (Ft) **Est. Area:** 2850.000000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	NU-IN	New Construction - Initial	0.00	0.00	☑	

Network: AIRGLADES AIRPO **Branch:** AP NW NORTHWEST AP **Section:** 4405 **Surface:**AC
L.C.D. 12/25/199 **Use:** APRON **Rank:** P **Length:** 500.00 (Ft) **Width:** 100.00 (Ft) **Est. Area:** 52932.00001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/1/2016	ST-SC	Surface Treatment - Seal Coat	0.00	0.00	☐	
12/25/1999	NU-IN	New Construction - Initial	0.00	0.00	☑	

Network: AIRGLADES AIRPO **Branch:** AP NW NORTHWEST AP **Section:** 4410 **Surface:**PCC
L.C.D. 12/25/199 **Use:** APRON **Rank:** P **Length:** 42.00 (Ft) **Width:** 62.00 (Ft) **Est. Area:** 2604.000000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	NC-PC	New Construction - PCC	0.00	0.00	☑	Estimated Construction Date

Network: AIRGLADES AIRPO **Branch:** AP S SOUTH RAMP **Section:** 4305 **Surface:**AAC
L.C.D. 1/1/1984 **Use:** APRON **Rank:** P **Length:** 250.00 (Ft) **Width:** 165.00 (Ft) **Est. Area:** 59100.00001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 BIT OL

Network: AIRGLADES AIRPO **Branch:** AP W WEST APRON **Section:** 4105 **Surface:**AAC

L.C.D. 1/1/1996 **Use:** APRON **Rank:** P **Length:** 425.00 (Ft) **Width:** 200.00 (Ft) **Est. Area:** 89758.00002 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/1/1999	ST-SC	Surface Treatment - Seal Coat	0.00	0.00	☐	
1/1/1996	IMPORTED	OVERLAY	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 AC OVERLAY

Network: AIRGLADES AIRPO **Branch:** AP W WEST APRON **Section:** 4110 **Surface:**PCC

L.C.D. 12/25/199 **Use:** APRON **Rank:** P **Length:** 150.00 (Ft) **Width:** 100.00 (Ft) **Est. Area:** 14618.00000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	NU-IN	New Construction - Initial	0.00	0.00	☑	

Network: AIRGLADES AIRPO **Branch:** AP W WEST APRON **Section:** 4115 **Surface:**AC

L.C.D. 9/1/2005 **Use:** APRON **Rank:** P **Length:** 50.00 (Ft) **Width:** 465.00 (Ft) **Est. Area:** 23595.00000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2005	NC-AC	New Construction - AC	0.00	0.00	☑	

Network: AIRGLADES AIRPO **Branch:** RW 13-31 RUNWAY 13-31 **Section:** 6103 **Surface:**AAC

L.C.D. 2/1/2011 **Use:** RUNWAY **Rank:** P **Length:** 1,500.00 (Ft) **Width:** 75.00 (Ft) **Est. Area:** 114068.0000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
2/1/2011	ML-OVL	Mill and Overlay	0.00	0.00	☑	1/2" Asphalt milling and 2" P-401 ove
1/1/1996	IMPORTED	BUILT	0.00	0.00	☑	1996 AC PAVEMENT

Network: AIRGLADES AIRPO **Branch:** RW 13-31 RUNWAY 13-31 **Section:** 6105 **Surface:**AC

L.C.D. 2/1/2011 **Use:** RUNWAY **Rank:** P **Length:** 3,000.00 (Ft) **Width:** 75.00 (Ft) **Est. Area:** 225000.0000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
2/1/2011	NC-AC	New Construction - AC	0.00	0.00	☑	4" P-401, 6" P-211 LIMEROCK BAS
1/1/1996	IMPORTED	OVERLAY	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 BIT OL

Network: AIRGLADES AIRPO **Branch:** RW 13-31 RUNWAY 13-31 **Section:** 6110 **Surface:**AAC

L.C.D. 2/1/2011 **Use:** RUNWAY **Rank:** P **Length:** 1,400.00 (Ft) **Width:** 75.00 (Ft) **Est. Area:** 106482.0000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
2/1/2011	ML-OVL	Mill and Overlay	0.00	0.00	☑	1/2" Asphalt milling and 2" P-401 ove
1/1/1996	IMPORTED	BUILT	0.00	0.00	☑	1996 AC PAVEMENT

Network: AIRGLADES AIRPO **Branch:** TW A TAXIWAY A **Section:** 103 **Surface:**AAC

L.C.D. 1/1/1996 **Use:** TAXIWAY **Rank:** P **Length:** 2,140.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 74342.00002 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1996	IMPORTED	OVERLAY	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 AC OVERLAY

Network: AIRGLADES AIRPO **Branch:** TW A TAXIWAY A **Section:** 105 **Surface:**AAC

L.C.D. 1/1/1996 **Use:** TAXIWAY **Rank:** P **Length:** 1,820.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 37814.00001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1996	IMPORTED	OVERLAY	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 BIT OL

Network: AIRGLADES AIRPO **Branch:** TW A1 TAXIWAY A1 **Section:** 104 **Surface:**AAC

L.C.D. 1/1/1996 **Use:** TAXIWAY **Rank:** P **Length:** 600.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 26288.00000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1996	OL-AS	Overlay - AC Structural	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	NU-IN	New Construction - Initial	0.00	0.00	☑	84 BIT OL

Network: AIRGLADES AIRPO **Branch:** TW A1 TAXIWAY A1 **Section:** 110 **Surface:**AC

L.C.D. 2/11/2011 **Use:** TAXIWAY **Rank:** P **Length:** 150.00 (Ft) **Width:** 15.00 (Ft) **Est. Area:** 2235.000000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
2/11/2011	CR-AC	Complete Reconstruction - AC	0.00	0.00	☑	4" P-401, 6" P-211 LIMEROCK BAS
1/1/1996	OL-AS	Overlay - AC Structural	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	NU-IN	New Construction - Initial	0.00	0.00	☑	84 BIT OL

Network: AIRGLADES AIRPO **Branch:** TW A TAXIWAY A **Section:** 120 **Surface:**AC

L.C.D. 1/1/2011 **Use:** TAXIWAY **Rank:** P **Length:** 320.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 13720.00000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2011	NC-AC	New Construction - AC	0.00	0.00	☑	FULL DEPTH REPAIR
1/1/1996	IMPORTED	OVERLAY	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 BIT OL

Network: AIRGLADES AIRPO **Branch:** TW A TAXIWAY A **Section:** 125 **Surface:**AC

L.C.D. 1/1/1996 **Use:** TAXIWAY **Rank:** P **Length:** 3,000.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 109989.0000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1996	IMPORTED	BUILT	0.00	0.00	☑	1996 AC PAVEMENT

Network: AIRGLADES AIRPO **Branch:** TW A2 TAXIWAY A2 **Section:** 205 **Surface:**AC

L.C.D. 2/1/2011 **Use:** TAXIWAY **Rank:** P **Length:** 110.00 (Ft) **Width:** 27.00 (Ft) **Est. Area:** 4599.000001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
2/1/2011	CR-AC	Complete Reconstruction - AC	22,995.00	0.00	☑	4" P-401, 6" P-211 LIMEROCK BAS
1/1/1996	IMPORTED	OVERLAY	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 AC OVERLAY

Network: AIRGLADES AIRPO **Branch:** TW A2 TAXIWAY A2 **Section:** 210 **Surface:**AAC

L.C.D. 1/1/1996 **Use:** TAXIWAY **Rank:** P **Length:** 900.00 (Ft) **Width:** 40.00 (Ft) **Est. Area:** 38437.00001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1996	IMPORTED	OVERLAY	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 AC OVERLAY

Network: AIRGLADES AIRPO **Branch:** TW A2 TAXIWAY A2 **Section:** 215 **Surface:**AC

L.C.D. 1/1/1984 **Use:** TAXIWAY **Rank:** P **Length:** 1,011.00 (Ft) **Width:** 50.00 (Ft) **Est. Area:** 41410.00001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 AC PAVEMENT

Network: AIRGLADES AIRPO **Branch:** TW A3 TAXIWAY A3 **Section:** 410 **Surface:**AC

L.C.D. 1/1/1996 **Use:** TAXIWAY **Rank:** P **Length:** 840.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 34501.00001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1996	IMPORTED	BUILT	0.00	0.00	☑	1996 AC OVERLAY

Network: AIRGLADES AIRPO **Branch:** TW A3 TAXIWAY A3 **Section:** 415 **Surface:**AC

L.C.D. 2/1/2011 **Use:** TAXIWAY **Rank:** P **Length:** 156.00 (Ft) **Width:** 39.00 (Ft) **Est. Area:** 6096.000001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
2/1/2011	CR-AC	Complete Reconstruction - AC	0.00	0.00	☑	4" P-401, 6" P-211 LIMEROCK BAS
1/1/1996	IMPORTED	BUILT	0.00	0.00	☑	1996 AC OVERLAY

Network: AIRGLADES AIRPO **Branch:** TW AP E EAST APRON TA **Section:** 710 **Surface:**AC

L.C.D. 12/25/199 **Use:** TAXIWAY **Rank:** P **Length:** 480.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 15760.00000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
12/25/1999	NU-IN	New Construction - Initial	0.00	0.00	☑	

Network: AIRGLADES AIRPO **Branch:** TW AP W WEST APRON T **Section:** 305 **Surface:**AAC

L.C.D. 1/1/1996 **Use:** TAXIWAY **Rank:** P **Length:** 83.00 (Ft) **Width:** 40.00 (Ft) **Est. Area:** 2718.000000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1996	OL-AS	Overlay - AC Structural	0.00	0.00	☑	1996 AC OVERLAY
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 BIT OL

Network: AIRGLADES AIRPO **Branch:** TW HANG HANGAR TAXI **Section:** 405 **Surface:**AAC

L.C.D. 1/1/1984 **Use:** TAXIWAY **Rank:** P **Length:** 655.00 (Ft) **Width:** 40.00 (Ft) **Est. Area:** 33514.00001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1984	IMPORTED	BUILT	0.00	0.00	☑	1984 AC OVERLAY

Network: AIRGLADES AIRPO **Branch:** TW HANG HANGAR TAXI **Section:** 407 **Surface:**AC

L.C.D. 1/1/2011 **Use:** TAXIWAY **Rank:** P **Length:** 100.00 (Ft) **Width:** 40.00 (Ft) **Est. Area:** 3153.000000 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2011	CR-AC	Complete Reconstruction - AC	15,765.00	0.00	☑	Full Depth Repair
1/1/1996	IMPORTED	BUILT	0.00	0.00	☑	1996 AC PAVEMENT

Network: AIRGLADES AIRPO **Branch:** TW S TAXIWAY S **Section:** 605 **Surface:**AC

L.C.D. 1/1/1996 **Use:** TAXIWAY **Rank:** P **Length:** 1,241.00 (Ft) **Width:** 35.00 (Ft) **Est. Area:** 45015.00001 (SqFt

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1996	IMPORTED	BUILT	0.00	0.00	☑	1996 AC PAVEMENT

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	19	1,046,628.00	0.00	0.00
Complete Reconstruction - AC	4	16,083.00	0.00	0.00
Mill and Overlay	2	220,550.00	0.00	0.00
New Construction - AC	3	262,315.00	0.00	0.00
New Construction - Initial	8	231,907.00	0.00	0.00
New Construction - PCC	1	2,604.00	0.00	0.00
OVERLAY	7	483,670.00	0.00	0.00
Overlay - AC Structural	3	31,241.00	0.00	0.00
Surface Treatment - Seal Coat	2	142,690.00	0.00	0.00

Branch Condition Report

Pavement Database: FDOT

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	Est. Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
AP E	1	440.00	230.00	102,944.00	APRON	35.00	0.00	35.00
AP HANG	3	361.00	113.00	24,042.00	APRON	58.33	34.89	61.25
AP NW	2	542.00	81.00	55,536.00	APRON	25.50	17.50	41.36
AP S	1	250.00	165.00	59,100.00	APRON	23.00	0.00	23.00
AP W	3	625.00	255.00	127,971.00	APRON	43.67	9.53	36.39
RW 13-31	3	5,900.00	75.00	445,550.00	RUNWAY	87.67	1.70	88.28
TW A	4	7,280.00	35.00	235,865.00	TAXIWAY	70.00	10.89	63.91
TW A1	2	750.00	25.00	28,523.00	TAXIWAY	73.00	4.00	69.63
TW A2	3	2,021.00	39.00	84,446.00	TAXIWAY	57.67	19.36	46.75
TW A3	2	996.00	37.00	40,597.00	TAXIWAY	74.50	10.50	67.15
TW AP E	1	480.00	35.00	15,760.00	TAXIWAY	59.00	0.00	59.00
TW AP W	1	83.00	40.00	2,718.00	TAXIWAY	43.00	0.00	43.00
TW HANG	2	755.00	40.00	36,667.00	TAXIWAY	49.00	36.00	19.19
TW S	1	1,241.00	35.00	45,015.00	TAXIWAY	58.00	0.00	58.00

Pavement Database: FDOT

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average STD PCI	Weighted Average PCI
APRON	10	369,593.00	41.50	25.10	36.23
RUNWAY	3	445,550.00	87.67	1.70	88.28
TAXIWAY	16	489,591.00	62.88	19.40	57.39
ALL	29	1,304,734.00	58.07	24.96	61.94

Pavement Database: FDOT *NetworkId: 2IS*

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	Est. Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
AP E	4505	12/25/1999	AC	APRON	P	0	102,944.00	10/20/2020	21	35
AP HANG	4205	1/1/1982	PCC	APRON	P	0	6,912.00	10/20/2020	38	9
AP HANG	4210	12/25/1999	AC	APRON	P	0	14,280.00	10/20/2020	21	82
AP HANG	4215	12/25/1999	PCC	APRON	P	0	2,850.00	10/20/2020	21	84
AP NW	4405	12/25/1999	AC	APRON	P	0	52,932.00	10/20/2020	21	43
AP NW	4410	12/25/1999	PCC	APRON	P	0	2,604.00	10/20/2020	21	8
AP S	4305	1/1/1984	AAC	APRON	P	0	59,100.00	10/20/2020	36	23
AP W	4105	1/1/1996	AAC	APRON	P	0	89,758.00	10/20/2020	24	31
AP W	4110	12/25/1999	PCC	APRON	P	0	14,618.00	10/20/2020	21	54
AP W	4115	9/1/2005	AC	APRON	P	0	23,595.00	10/20/2020	15	46
RW 13-31	6103	2/1/2011	AAC	RUNWAY	P	0	114,068.00	10/20/2020	9	87
RW 13-31	6105	2/1/2011	AC	RUNWAY	P	0	225,000.00	10/20/2020	9	90
RW 13-31	6110	2/1/2011	AAC	RUNWAY	P	0	106,482.00	10/20/2020	9	86
TW A	103	1/1/1996	AAC	TAXIWAY	P	0	74,342.00	10/20/2020	24	59
TW A	105	1/1/1996	AAC	TAXIWAY	P	0	37,814.00	10/20/2020	24	74
TW A	120	1/1/2011	AC	TAXIWAY	P	0	13,720.00	10/20/2020	9	86
TW A	125	1/1/1996	AC	TAXIWAY	P	0	109,989.00	10/20/2020	24	61
TW A1	104	1/1/1996	AAC	TAXIWAY	P	0	26,288.00	10/20/2020	24	69
TW A1	110	2/11/2011	AC	TAXIWAY	P	0	2,235.00	10/20/2020	9	77
TW A2	205	2/1/2011	AC	TAXIWAY	P	0	4,599.00	10/20/2020	9	83
TW A2	210	1/1/1996	AAC	TAXIWAY	P	0	38,437.00	10/20/2020	24	54
TW A2	215	1/1/1984	AC	TAXIWAY	P	0	41,410.00	10/20/2020	36	36
TW A3	410	1/1/1996	AC	TAXIWAY	P	0	34,501.00	10/20/2020	24	64
TW A3	415	2/1/2011	AC	TAXIWAY	P	0	6,096.00	10/20/2020	9	85
TW AP E	710	12/25/1999	AC	TAXIWAY	P	0	15,760.00	10/20/2020	21	59
TW AP W	305	1/1/1996	AAC	TAXIWAY	P	0	2,718.00	10/20/2020	24	43

TW HANG	405	1/1/1984	AAC	TAXIWAY	P	0	33,514.00	10/20/2020	36	13
TW HANG	407	1/1/2011	AC	TAXIWAY	P	0	3,153.00	10/20/2020	9	85
TW S	605	1/1/1996	AC	TAXIWAY	P	0	45,015.00	10/20/2020	24	58

Pavement Database: FDOT

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
06-10	9	475,353.00	8	84.88	3.52	88.04
11-15	15	23,595.00	1	46.00	0.00	46.00
21-25	23	664,850.00	16	54.88	18.97	51.94
36-40	37	140,936.00	4	20.25	10.43	23.76
ALL	21	1,304,734.00	29	58.07	24.96	61.94

Appendix B: Maintenance and Rehabilitation Planning Needs

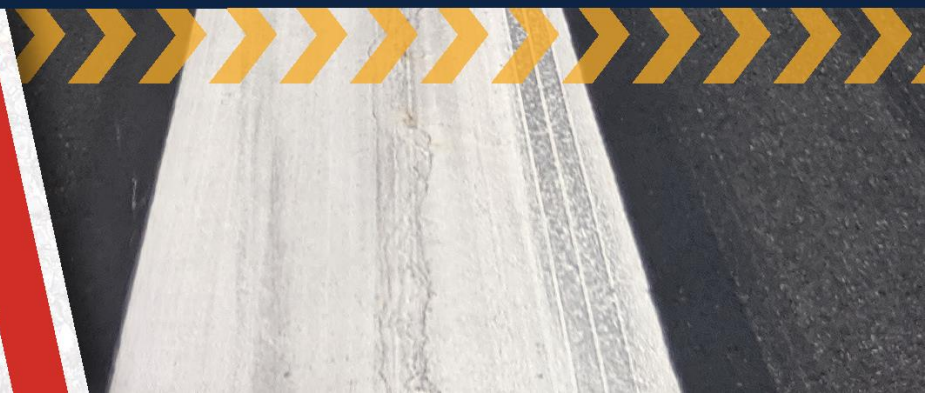


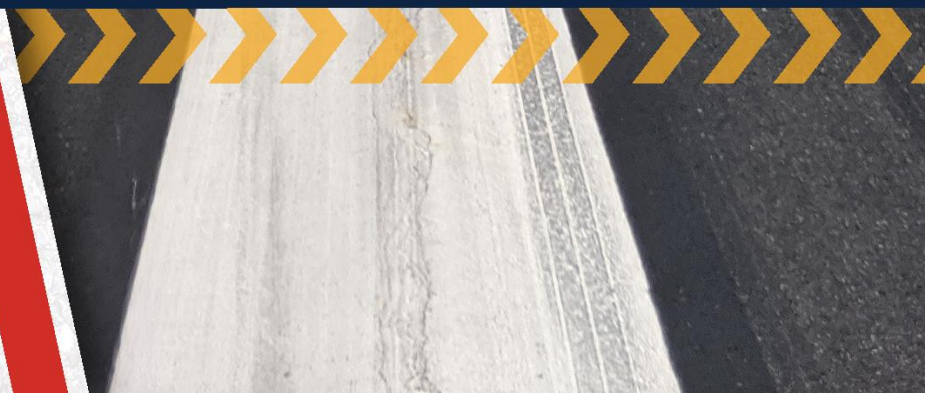
Table B.1: Localized Maintenance and Repair Needs Based on Current Distresses

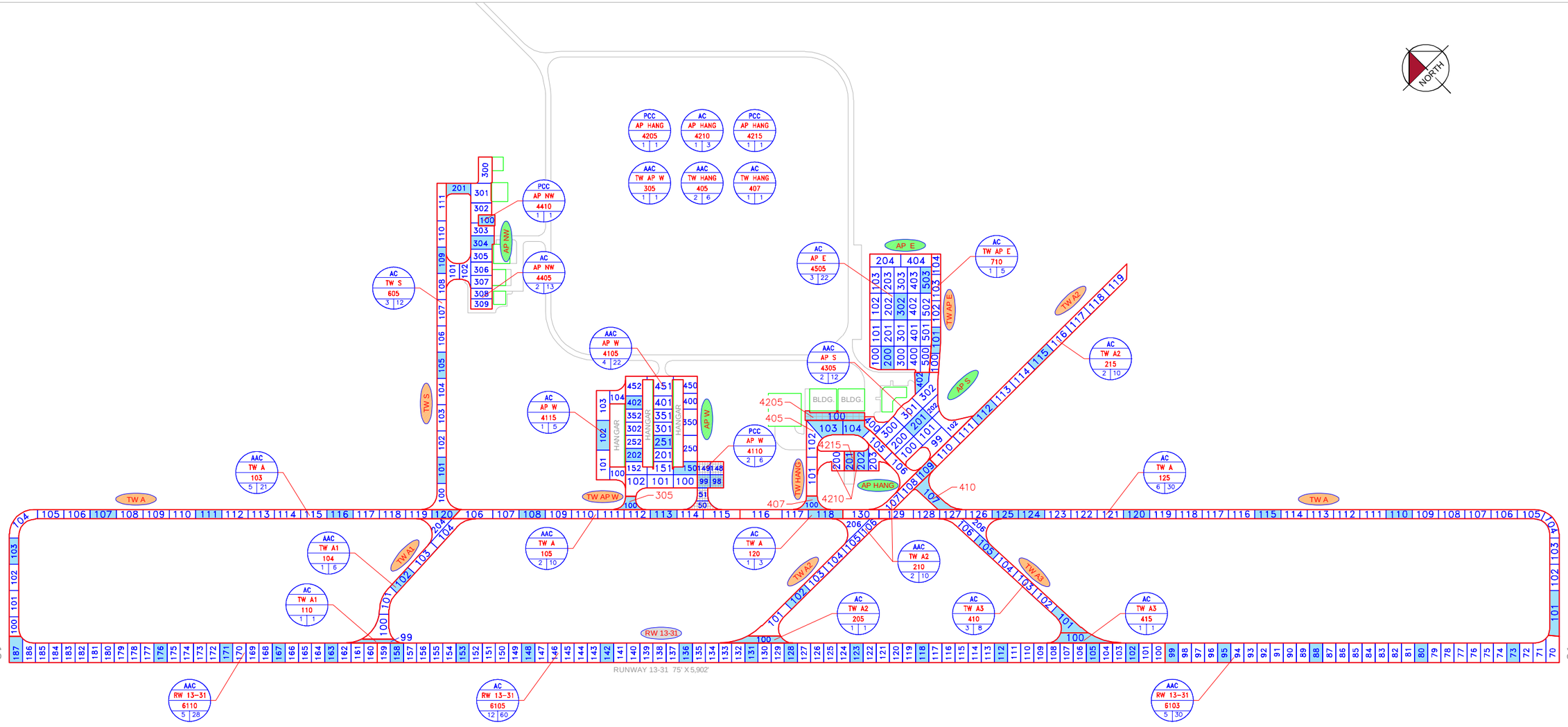
Network ID	Branch ID	Section ID	Description	Severity	Distress Qty	Distress Unit	Distress Density	Policy Type	Localized Work Type	Work Qty	Work Unit	Unit Cost	Work Cost
2IS	RW 13-31	6103	RAVELING	Low	3,650	SF	3.2%	Preventive	Surface Seal	3,650	SF	$ 0.50	$ 1,830
2IS	RW 13-31	6103	WEATHERING	Medium	4,575	SF	4.0%	Preventive	Surface Seal	4,575	SF	$ 0.50	$ 2,290
2IS	RW 13-31	6105	WEATHERING	Medium	10,715	SF	4.8%	Preventive	Surface Seal	10,716	SF	$ 0.50	$ 5,360
2IS	RW 13-31	6110	WEATHERING	Medium	5,335	SF	5.0%	Preventive	Surface Seal	5,336	SF	$ 0.50	$ 2,670
2IS	TW A	105	RAVELING	Low	1,324	SF	3.5%	Preventive	Surface Seal	1,324	SF	$ 0.50	$ 670
2IS	TW A	120	WEATHERING	Medium	687	SF	5.0%	Preventive	Surface Seal	687	SF	$ 0.50	$ 350
2IS	TW A1	110	WEATHERING	Medium	45	SF	2.0%	Preventive	Surface Seal	45	SF	$ 0.50	$ 30
2IS	TW A2	205	WEATHERING	Medium	230	SF	5.0%	Preventive	Surface Seal	230	SF	$ 0.50	$ 120
2IS	TW A3	415	WEATHERING	Medium	305	SF	5.0%	Preventive	Surface Seal	305	SF	$ 0.50	$ 160
2IS	TW HANG	407	WEATHERING	Medium	158	SF	5.0%	Preventive	Surface Seal	158	SF	$ 0.50	$ 80
2IS	AP HANG	4210	WEATHERING	Medium	1,430	SF	10.0%	Preventive	Surface Seal	1,430	SF	$ 0.50	$ 720
2IS	AP HANG	4215	JT SEAL DMG	Medium	18	Slabs	100.0%	Preventive	PCC Joint Seal	597	LF	$ 3.25	$ 1,950
2IS	AP HANG	4215	CORNER SPALL	Medium	1	Slabs	5.6%	Preventive	PCC Partial-Depth Patching	2	SF	$ 125.00	$ 340
2IS	TW HANG	405	ALLIGATOR CR	Medium	1,325	SF	4.0%	Stopgap	AC Full-Depth Patching	1,476	SF	$ 7.50	$ 11,070
2IS	TW HANG	405	PATCHING	High	116	SF	0.4%	Stopgap	AC Full-Depth Patching	164	SF	$ 7.50	$ 1,230
2IS	AP HANG	4205	CORNER BREAK	Medium	2	Slabs	10.0%	Stopgap	PCC Full-Depth Patching	65	SF	$ 50.00	$ 3,230
2IS	AP HANG	4205	CORNER BREAK	High	3	Slabs	15.0%	Stopgap	PCC Full-Depth Patching	97	SF	$ 50.00	$ 4,850
2IS	AP HANG	4205	LINEAR CR	Medium	2	Slabs	10.0%	Stopgap	PCC Crack Sealing	38	LF	$ 5.00	$ 190
2IS	AP HANG	4205	SHAT. SLAB	Medium	6	Slabs	30.0%	Stopgap	PCC Crack Sealing	228	LF	$ 5.00	$ 1,140
2IS	AP HANG	4205	SHAT. SLAB	High	1	Slabs	5.0%	Stopgap	PCC Slab Replacement	346	SF	$ 38.75	$ 13,370
2IS	AP HANG	4205	JOINT SPALL	Medium	1	Slabs	5.0%	Stopgap	PCC Partial-Depth Patching	7	SF	$ 125.00	$ 810
2IS	AP HANG	4205	CORNER SPALL	Medium	1	Slabs	5.0%	Stopgap	PCC Partial-Depth Patching	2	SF	$ 125.00	$ 340
2IS	AP NW	4405	ALLIGATOR CR	Medium	468	SF	0.9%	Stopgap	AC Full-Depth Patching	560	SF	$ 7.50	$ 4,200
2IS	AP NW	4410	CORNER BREAK	Medium	1	Slabs	16.7%	Stopgap	PCC Full-Depth Patching	32	SF	$ 50.00	$ 1,620
2IS	AP NW	4410	LINEAR CR	Medium	1	Slabs	16.7%	Stopgap	PCC Crack Sealing	20	LF	$ 5.00	$ 110
2IS	AP NW	4410	JT SEAL DMG	High	6	Slabs	100.0%	Stopgap	PCC Joint Seal	150	LF	$ 3.25	$ 490
2IS	AP NW	4410	SHAT. SLAB	Medium	4	Slabs	66.7%	Stopgap	PCC Crack Sealing	164	LF	$ 5.00	$ 820
2IS	AP S	4305	RAVELING	High	4,354	SF	7.4%	Stopgap	AC Partial-Depth Patching	4,354	SF	$ 3.75	$ 16,330
2IS	AP W	4105	ALLIGATOR CR	Medium	50	SF	0.1%	Stopgap	AC Full-Depth Patching	83	SF	$ 7.50	$ 620
2IS	AP W	4110	JT SEAL DMG	High	146	Slabs	100.0%	Stopgap	PCC Joint Seal	2,750	LF	$ 3.25	$ 8,940
2IS	AP W	4110	JOINT SPALL	Medium	91	Slabs	62.0%	Stopgap	PCC Partial-Depth Patching	585	SF	$ 125.00	$ 73,080
2IS	AP W	4110	CORNER SPALL	Medium	3	Slabs	2.0%	Stopgap	PCC Partial-Depth Patching	8	SF	$ 125.00	$ 990
2IS	AP W	4115	PATCHING	High	100	SF	0.4%	Stopgap	AC Full-Depth Patching	144	SF	$ 7.50	$ 1,090

Table B.2: Section-Level 10-Year Major Rehabilitation Needs

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2021	**2IS**	TW A	103	AAC	74,342	59	AC Rehabilitation	$ 521,000
2021	**2IS**	TW A	125	AC	109,989	61	AC Rehabilitation	$ 770,000
2021	**2IS**	TW A1	104	AAC	26,288	69	AC Rehabilitation	$ 185,000
2021	**2IS**	TW A2	210	AAC	38,437	53	AC Reconstruction	$ 404,000
2021	**2IS**	TW A2	215	AC	41,410	36	AC Reconstruction	$ 435,000
2021	**2IS**	TW A3	410	AC	34,501	64	AC Rehabilitation	$ 242,000
2021	**2IS**	TW AP E	710	AC	15,760	59	AC Rehabilitation	$ 111,000
2021	**2IS**	TW AP W	305	AAC	2,718	42	AC Reconstruction	$ 29,000
2021	**2IS**	TW HANG	405	AAC	33,514	11	AC Reconstruction	$ 352,000
2021	**2IS**	TW S	605	AC	45,015	58	AC Rehabilitation	$ 316,000
2021	**2IS**	AP E	4505	AC	102,944	35	AC Reconstruction	$ 1,081,000
2021	**2IS**	AP HANG	4205	PCC	6,912	9	PCC Reconstruction	$ 154,000
2021	**2IS**	AP NW	4405	AC	52,932	43	AC Reconstruction	$ 556,000
2021	**2IS**	AP NW	4410	PCC	2,604	8	PCC Reconstruction	$ 58,000
2021	**2IS**	AP S	4305	AAC	59,100	22	AC Reconstruction	$ 621,000
2021	**2IS**	AP W	4105	AAC	89,758	30	AC Reconstruction	$ 943,000
2021	**2IS**	AP W	4110	PCC	14,618	54	PCC Reconstruction	$ 326,000
2021	**2IS**	AP W	4115	AC	23,595	46	AC Reconstruction	$ 248,000
2025	**2IS**	TW A	105	AAC	37,814	69	AC Rehabilitation	$ 265,000
2027	**2IS**	TW A1	110	AC	2,235	68	AC Rehabilitation	$ 16,000
2028	**2IS**	AP HANG	4210	AC	14,280	69	AC Rehabilitation	$ 100,000
2029	**2IS**	RW 13-31	6110	AAC	106,482	69	AC Rehabilitation	$ 746,000
2030	**2IS**	RW 13-31	6103	AAC	114,068	68	AC Rehabilitation	$ 799,000
2030	**2IS**	TW A2	205	AC	4,599	69	AC Rehabilitation	$ 33,000

Appendix C: Technical Exhibits





LEGEND

- RW 13-31 — TYPICAL RUNWAY BRANCH ID
- TW A — TYPICAL TAXIWAY BRANCH ID
- AP S — TYPICAL APRON BRANCH ID
- AAC / AP MAIN / 4105 / 10 | 100 — PAVEMENT SURFACE TYPE; PAVEMENT BRANCH ID; SECTION NUMBER; NUMBER OF SAMPLE UNITS IN SECTION; NUMBER OF SAMPLE UNITS TO BE INSPECTED
- AAC / AP MAIN / 4105 / 0 | 100 — SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.
- 100 — INSPECTED SAMPLE UNITS.

TOTAL SAMPLES INSPECTED = 72
AC: 67 PCC: 5

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

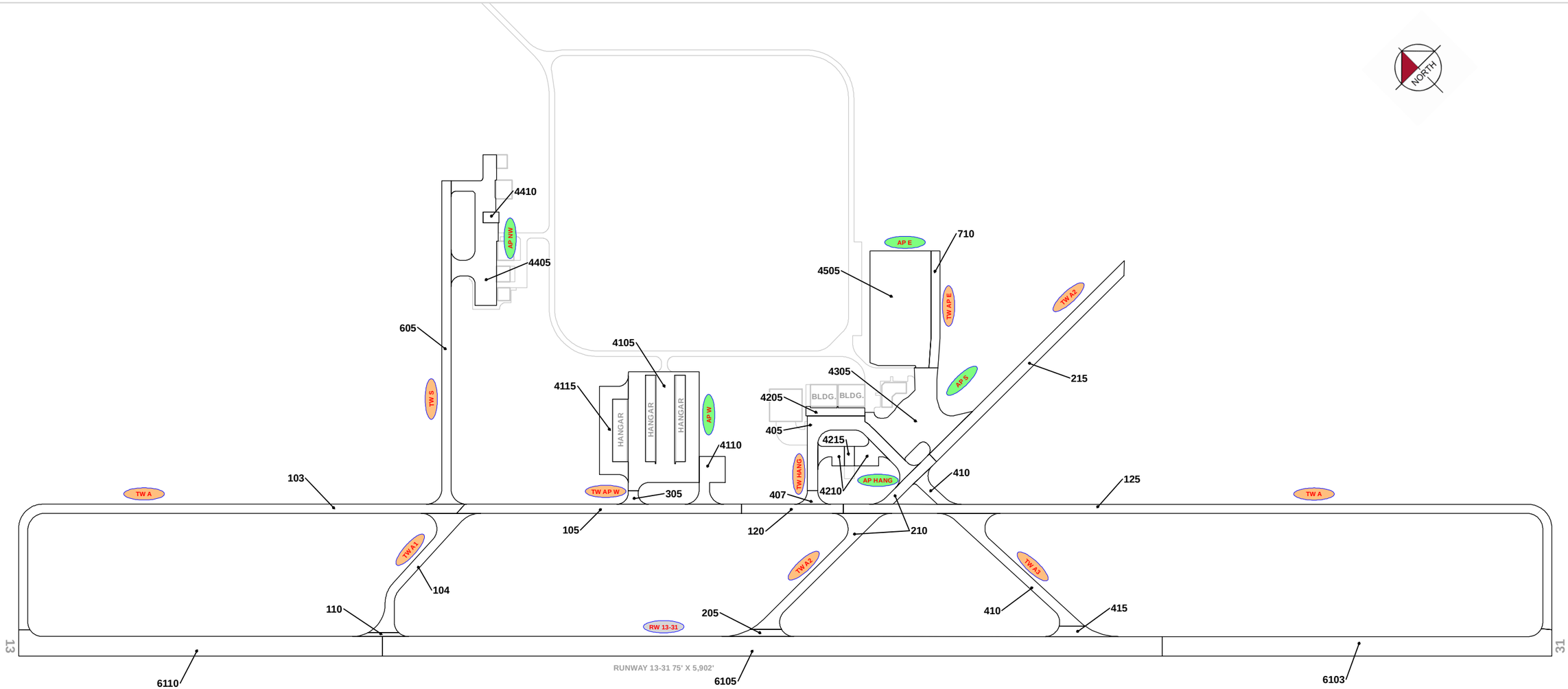
2IS

AIRFIELD PAVEMENT NETWORK DEFINITION EXHIBIT

Statewide Airfield Pavement Management Program
AIRGLADES AIRPORT

FDOT

2021



RECENT & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
NO INFORMATION PROVIDED		

LEGEND

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

PROJECT YEAR

2016		2021	
2017		2022	
2018		2023	
2019		2024	
2020		2025	

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

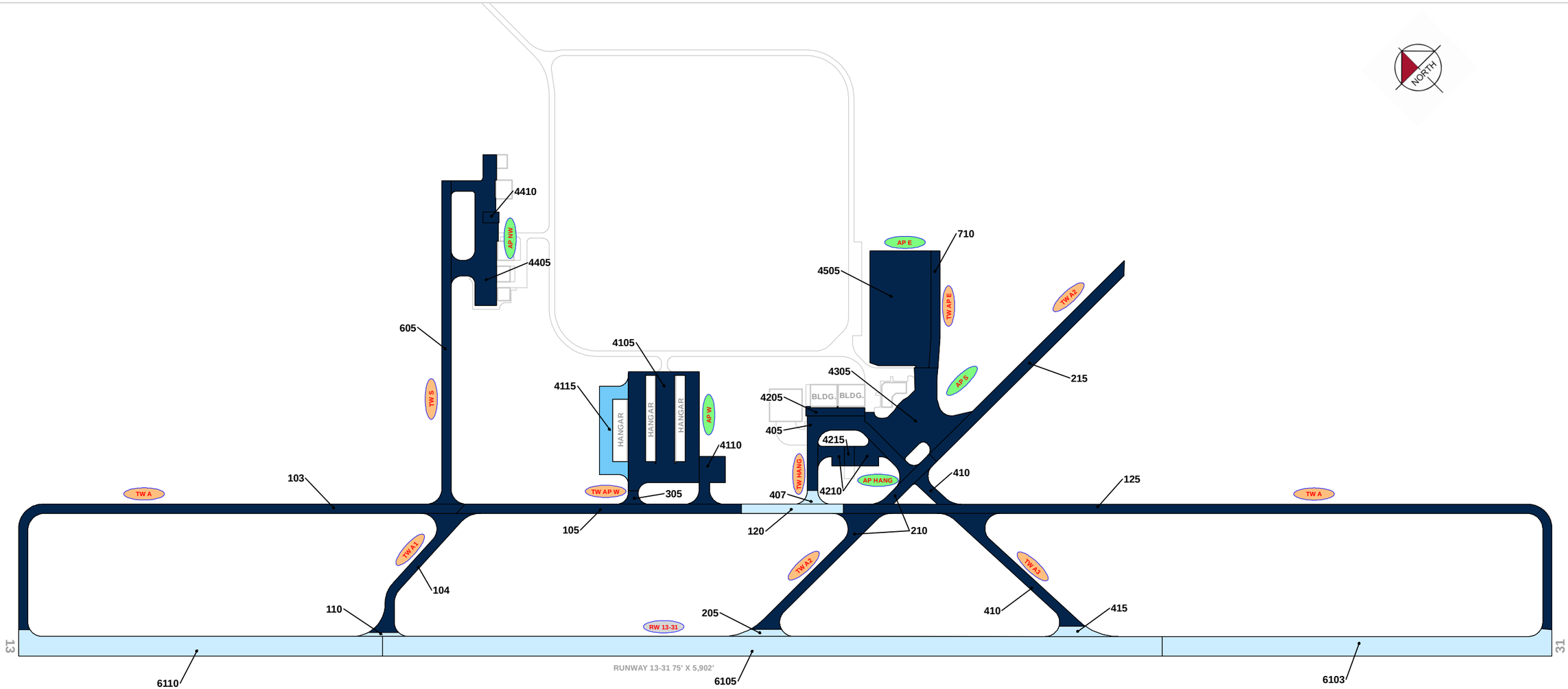
AIRFIELD PAVEMENT SYSTEM INVENTORY EXHIBIT

Statewide Airfield Pavement Management Program

AIRGLADES AIRPORT

FDOT

2021



LEGEND

RW 13-31 — TYPICAL RUNWAY BRANCH ID

TW A — TYPICAL TAXIWAY BRANCH ID

AP S — TYPICAL APRON BRANCH ID

AGE AT INSPECTION

- 0-5 Years
- 6-10 Years
- 11-15 Years
- 16-20 Years
- > 20 Years

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

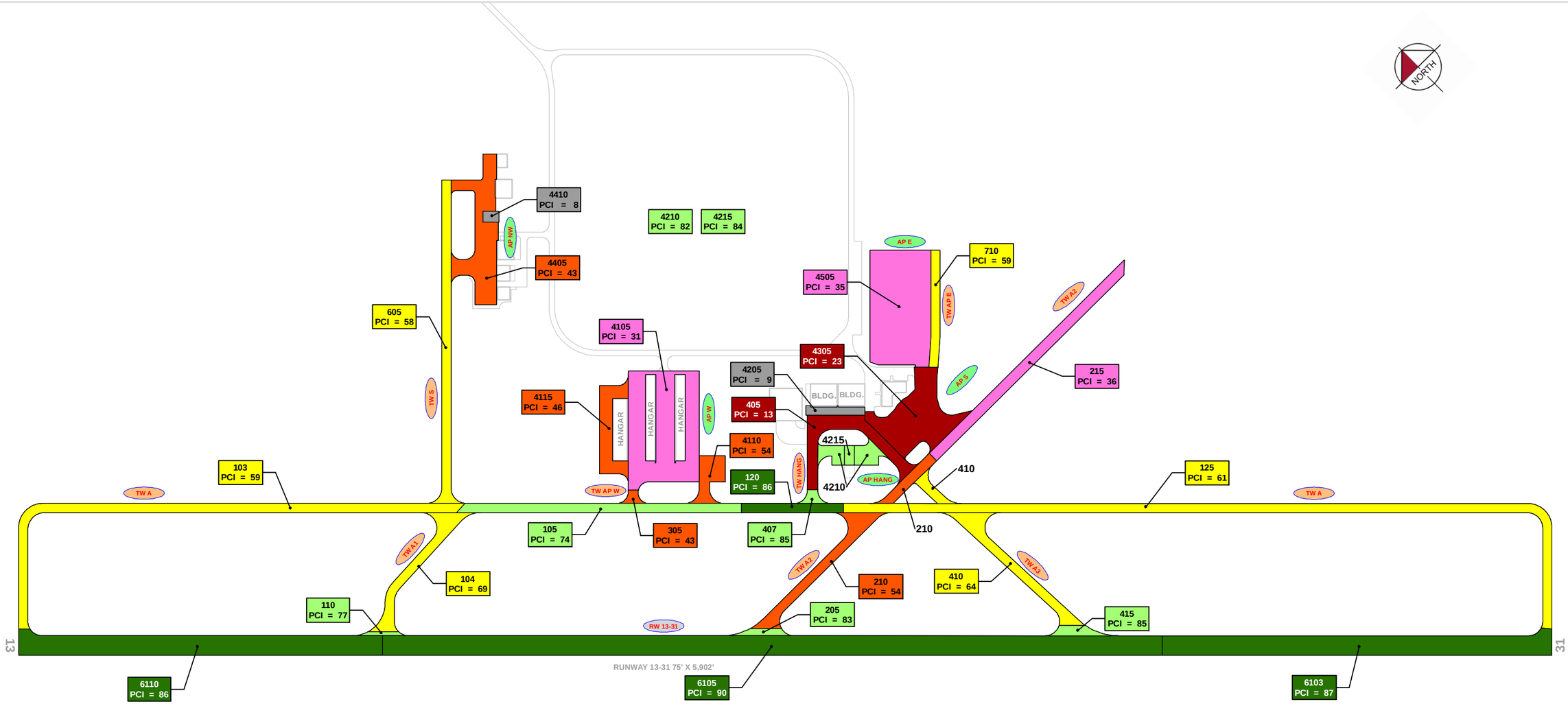
AIRFIELD PAVEMENT ESTIMATED AGE EXHIBIT

Statewide Airfield Pavement Management Program

AIRGLADES AIRPORT

FDOT

2021



LEGEND

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

2020 PAVEMENT CONDITION INDEX

- 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 ID"
"PCI VALUE"

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

2IS

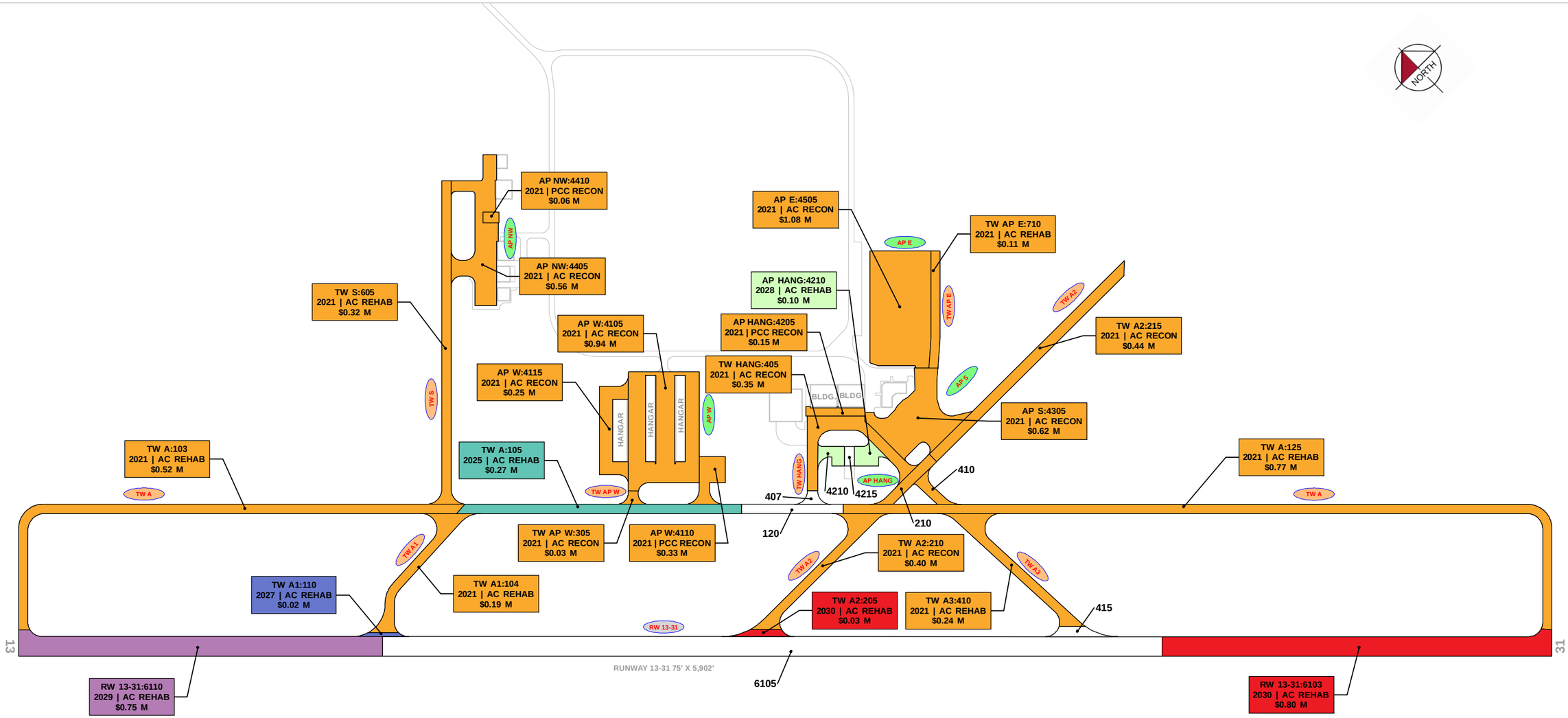
AIRFIELD PAVEMENT CONDITION INDEX EXHIBIT

Statewide Airfield Pavement Management Program

AIRGLADES AIRPORT

FDOT

2021



LEGEND

RW 13-31 — TYPICAL RUNWAY BRANCH ID

TW A — TYPICAL TAXIWAY BRANCH ID

AP S — TYPICAL APRON BRANCH ID

PROGRAM YEAR

2021	2026
2022	2027
2023	2028
2024	2029
2025	2030

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

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

2IS

AIRFIELD PAVEMENT MAJOR REHABILITATION EXHIBIT

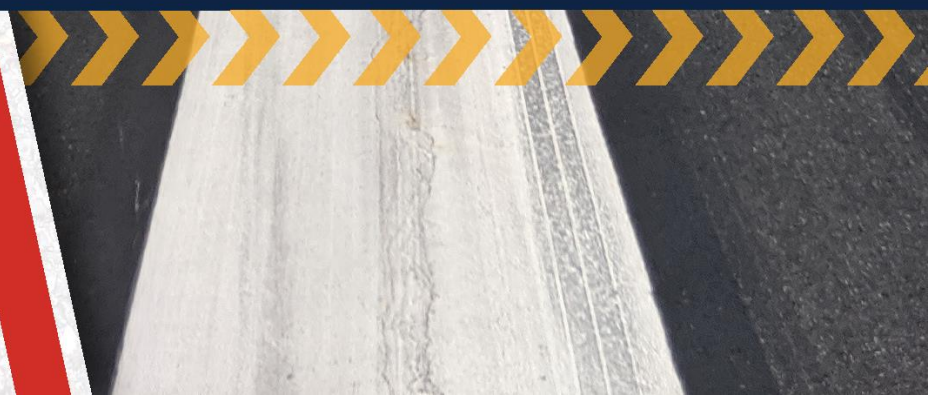
Statewide Airfield Pavement Management Program

AIRGLADES AIRPORT

FDOT

2021

Appendix D: Inspection Photograph Documentation



RW 13-31, Section 6103, Sample Unit 73 - Vicinity

RW 13-31, Section 6110, Sample Unit 171 - Vicinity

TW A, Section 103, Sample Unit 120 – Vicinity

TW A, Section 105, Sample Unit 113 - Longitudinal & Transverse Cracking

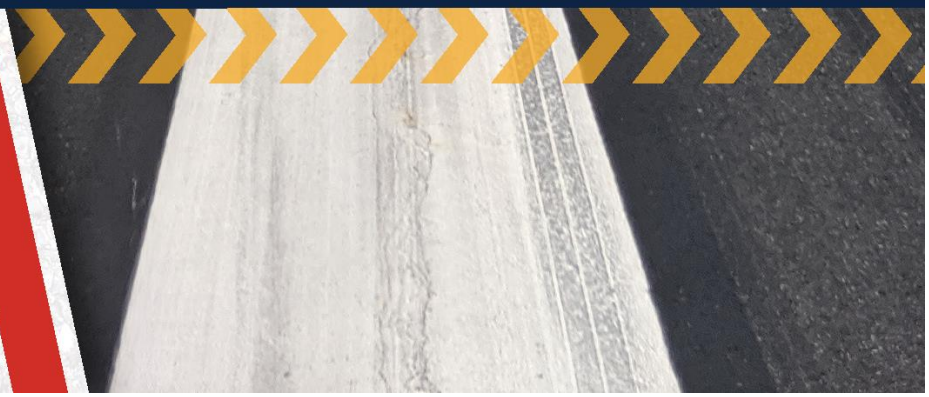
TW HANG, Section 405, Sample Unit 103 - Alligator Cracking and Depression

AP NW, Section 4410, Sample Unit 100 - Shattered Slab

AP S, Section 4305, Sample Unit 201 - Depression

AP W, Section 4105, Sample Unit 150 - Vicinity

Appendix E: Inspection Distress Details



Re-Inspection Report

FDOT

Generated Date 3/3/2021

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP E **Name:** EAST APRON **Use:** APRON **Area:** 102,944 SqFt

Section: 4505 of 1 **From:** - **To:** - **Last Const.:** 12/25/1999

Surface: AC **Family:** CA653-GA-AP-AC **Zone:** **Category:** **Rank:** P

Area: 102,944 SqFt **Length:** 440 Ft **Width:** 230 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 12/25/1999 **Work Type:** New Construction - Initial **Code:** NU-IN **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 22 **Surveyed:** 3

Conditions: **PCI:** 35

Inspection Comments:

Sample Number: 200 **Type:** R **Area:** 4500.00 SqFt **PCI:** 34

Sample Comments:

43	BLOCK CR	L	1800.00	SqFt
43	BLOCK CR	M	2700.00	SqFt
52	RAVELING	L	4400.00	SqFt
52	RAVELING	M	100.00	SqFt
56	SWELLING	L	130.00	SqFt

Sample Number: 302 **Type:** R **Area:** 5000.00 SqFt **PCI:** 34

Sample Comments:

43	BLOCK CR	L	2000.00	SqFt
43	BLOCK CR	M	3000.00	SqFt
52	RAVELING	L	4750.00	SqFt
52	RAVELING	M	250.00	SqFt
56	SWELLING	L	300.00	SqFt

Sample Number: 503 **Type:** R **Area:** 4200.00 SqFt **PCI:** 36

Sample Comments:

43	BLOCK CR	L	1680.00	SqFt
43	BLOCK CR	M	2520.00	SqFt
52	RAVELING	L	3360.00	SqFt
52	RAVELING	M	840.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP HANG **Name:** HANGAR APRON **Use:** APRON **Area:** 24,042 SqFt

Section: 4205 of 3 **From:** - **To:** - **Last Const.:** 1/1/1982

Surface: PCC **Family:** CA653-GA-AP-PCC **Zone:** **Category:** **Rank:** P

Area: 6,912 SqFt **Length:** 36 Ft **Width:** 226 Ft

Slabs: 20 **Slab Length:** 23 Ft **Slab Width:** 15 Ft **Joint Length:** 634 Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1982 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 9

Inspection Comments:

Sample Number: 100 **Type:** R **Area:** 20.00 Slabs **PCI:** 9

Sample Comments:

62	CORNER BREAK	M	2.00	Slabs
62	CORNER BREAK	H	3.00	Slabs
63	LINEAR CR	L	8.00	Slabs
63	LINEAR CR	M	2.00	Slabs
65	JT SEAL DMG	M	20.00	Slabs
66	SMALL PATCH	M	1.00	Slabs
67	LARGE PATCH	M	1.00	Slabs
71	FAULTING	L	2.00	Slabs
71	FAULTING	M	1.00	Slabs
72	SHAT. SLAB	L	2.00	Slabs
72	SHAT. SLAB	M	6.00	Slabs
72	SHAT. SLAB	H	1.00	Slabs
73	SHRINKAGE CR	N	11.00	Slabs
74	JOINT SPALL	L	2.00	Slabs
74	JOINT SPALL	M	1.00	Slabs
75	CORNER SPALL	M	1.00	Slabs

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP HANG **Name:** HANGAR APRON **Use:** APRON **Area:** 24,042 SqFt

Section: 4210 of 3 **From:** - **To:** - **Last Const.:** 12/25/1999

Surface: AC **Family:** CA653-GA-AP-AC **Zone:** **Category:** **Rank:** P

Area: 14,280 SqFt **Length:** 200 Ft **Width:** 75 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 12/25/1999 **Work Type:** New Construction - Initial **Code:** NU-IN **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 3 **Surveyed:** 1

Conditions: **PCI:** 82

Inspection Comments:

Sample Number: 202 **Type:** R **Area:** 4115.00 SqFt **PCI:** 82

Sample Comments:

48	L & T CR	L	57.00	Ft
56	SWELLING	L	20.00	SqFt
57	WEATHERING	L	3703.00	SqFt
57	WEATHERING	M	412.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP HANG **Name:** HANGAR APRON **Use:** APRON **Area:** 24,042 SqFt

Section: 4215 of 3 **From:** - **To:** - **Last Const.:** 12/25/1999

Surface: PCC **Family:** CA653-GA-AP-PCC **Zone:** **Category:** **Rank:** P

Area: 2,850 SqFt **Length:** 125 Ft **Width:** 38 Ft

Slabs: 18 **Slab Length:** 12 Ft **Slab Width:** 12 Ft **Joint Length:** 597 Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 12/25/1999 **Work Type:** New Construction - Initial **Code:** NU-IN **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 84

Inspection Comments:

Sample Number: 201 **Type:** R **Area:** 18.00 Slabs **PCI:** 84

Sample Comments:

63	LINEAR CR	L	1.00	Slabs
65	JT SEAL DMG	M	18.00	Slabs
75	CORNER SPALL	M	1.00	Slabs

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP NW **Name:** NORTHWEST APRON **Use:** APRON **Area:** 55,536 SqFt

Section: 4405 of 2 **From:** - **To:** - **Last Const.:** 12/25/1999

Surface: AC **Family:** CA653-GA-AP-AC **Zone:** **Category:** **Rank:** P

Area: 52,932 SqFt **Length:** 500 Ft **Width:** 100 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 12/25/1999 **Work Type:** New Construction - Initial **Code:** NU-IN **Is Major M&R:** True

Work Date: 8/1/2016 **Work Type:** Surface Treatment - Seal Coat **Code:** ST-SC **Is Major M&R:** False

Last Insp. Date: 10/20/2020 **TotalSamples:** 13 **Surveyed:** 2

Conditions: **PCI:** 43

Inspection Comments:

Sample Number: 201 **Type:** R **Area:** 3818.00 SqFt **PCI:** 54

Sample Comments:

43	BLOCK CR	L	3818.00	SqFt
52	RAVELING	L	3742.00	SqFt
52	RAVELING	M	76.00	SqFt

Sample Number: 304 **Type:** R **Area:** 4320.00 SqFt **PCI:** 32

Sample Comments:

41	ALLIGATOR CR	M	72.00	SqFt
43	BLOCK CR	L	184.00	SqFt
48	L & T CR	L	258.00	Ft
48	L & T CR	M	150.00	Ft
52	RAVELING	L	4320.00	SqFt
53	RUTTING	M	72.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP NW **Name:** NORTHWEST APRON **Use:** APRON **Area:** 55,536 SqFt

Section: 4410 of 2 **From:** - **To:** - **Last Const.:** 12/25/1999

Surface: PCC **Family:** CA653-GA-AP-PCC **Zone:** **Category:** **Rank:** P

Area: 2,604 SqFt **Length:** 42 Ft **Width:** 62 Ft

Slabs: 6 **Slab Length:** 21 Ft **Slab Width:** 20 Ft **Joint Length:** 150 Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 12/25/1999 **Work Type:** New Construction - PCC **Code:** NC-PC **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 8

Inspection Comments:

Sample Number: 100 **Type:** R **Area:** 6.00 Slabs **PCI:** 8

Sample Comments:

62	CORNER BREAK	M	1.00	Slabs
63	LINEAR CR	M	1.00	Slabs
65	JT SEAL DMG	H	6.00	Slabs
72	SHAT. SLAB	L	1.00	Slabs
72	SHAT. SLAB	M	4.00	Slabs
73	SHRINKAGE CR	N	2.00	Slabs

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP S **Name:** SOUTH RAMP **Use:** APRON **Area:** 59,100 SqFt

Section: 4305 of 1 **From:** - **To:** - **Last Const.:** 1/1/1984

Surface: AAC **Family:** CA653-GA-AP-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 59,100 SqFt **Length:** 250 Ft **Width:** 165 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 12 **Surveyed:** 2

Conditions: **PCI:** 23

Inspection Comments:

Sample Number: 201 **Type:** R **Area:** 5000.00 SqFt **PCI:** 19

Sample Comments:

43	BLOCK CR	L	240.00	SqFt
45	DEPRESSION	L	152.00	SqFt
48	L & T CR	L	189.00	Ft
48	L & T CR	M	45.00	Ft
50	PATCHING	M	600.00	SqFt
52	RAVELING	L	1900.00	SqFt
52	RAVELING	M	1900.00	SqFt
52	RAVELING	H	600.00	SqFt

Sample Number: 402 **Type:** R **Area:** 3145.00 SqFt **PCI:** 28

Sample Comments:

43	BLOCK CR	L	240.00	SqFt
45	DEPRESSION	L	192.00	SqFt
48	L & T CR	L	138.00	Ft
52	RAVELING	M	3145.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP W **Name:** WEST APRON **Use:** APRON **Area:** 127,971 SqFt

Section: 4105 of 3 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AAC **Family:** CA653-GA-AP-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 89,758 SqFt **Length:** 425 Ft **Width:** 200 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 1/1/1996 **Work Type:** OVERLAY **Code:** IMPORTED **Is Major M&R:** True

Work Date: 12/1/1999 **Work Type:** Surface Treatment - Seal Coat **Code:** ST-SC **Is Major M&R:** False

Last Insp. Date: 10/20/2020 **TotalSamples:** 22 **Surveyed:** 4

Conditions: **PCI:** 31

Inspection Comments:

Sample Number: 150 **Type:** A **Area:** 3790.00 SqFt **PCI:** 15

Sample Comments:

41	ALLIGATOR CR	M	50.00	SqFt
43	BLOCK CR	L	1870.00	SqFt
43	BLOCK CR	M	1870.00	SqFt
45	DEPRESSION	L	247.00	SqFt
52	RAVELING	L	2274.00	SqFt
52	RAVELING	M	1516.00	SqFt

Sample Number: 202 **Type:** R **Area:** 3275.00 SqFt **PCI:** 29

Sample Comments:

43	BLOCK CR	L	2663.00	SqFt
43	BLOCK CR	M	80.00	SqFt
48	L & T CR	L	15.00	Ft
52	RAVELING	L	612.00	SqFt
52	RAVELING	M	2663.00	SqFt

Sample Number: 251 **Type:** R **Area:** 3550.00 SqFt **PCI:** 31

Sample Comments:

43	BLOCK CR	L	1775.00	SqFt
43	BLOCK CR	M	1775.00	SqFt
52	RAVELING	L	2130.00	SqFt
52	RAVELING	M	1420.00	SqFt

Sample Number: 402 **Type:** R **Area:** 3275.00 SqFt **PCI:** 34

Sample Comments:

43	BLOCK CR	L	2875.00	SqFt
48	L & T CR	L	14.00	Ft
52	RAVELING	L	560.00	SqFt
52	RAVELING	M	2715.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP W **Name:** WEST APRON **Use:** APRON **Area:** 127,971 SqFt

Section: 4110 of 3 **From:** - **To:** - **Last Const.:** 12/25/1999

Surface: PCC **Family:** CA653-GA-AP-PCC **Zone:** **Category:** **Rank:** P

Area: 14,618 SqFt **Length:** 150 Ft **Width:** 100 Ft

Slabs: 146 **Slab Length:** 10 Ft **Slab Width:** 10 Ft **Joint Length:** 2,750 Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 12/25/1999 **Work Type:** New Construction - Initial **Code:** NU-IN **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 6 **Surveyed:** 2

Conditions: **PCI:** 54

Inspection Comments:

Sample Number: 98 **Type:** R **Area:** 25.00 Slabs **PCI:** 57

Sample Comments:

65	JT SEAL DMG	H	25.00	Slabs
73	SHRINKAGE CR	N	2.00	Slabs
74	JOINT SPALL	L	2.00	Slabs
74	JOINT SPALL	M	15.00	Slabs
75	CORNER SPALL	L	7.00	Slabs

Sample Number: 99 **Type:** R **Area:** 25.00 Slabs **PCI:** 51

Sample Comments:

65	JT SEAL DMG	H	25.00	Slabs
73	SHRINKAGE CR	N	2.00	Slabs
74	JOINT SPALL	L	4.00	Slabs
74	JOINT SPALL	M	16.00	Slabs
75	CORNER SPALL	L	6.00	Slabs
75	CORNER SPALL	M	1.00	Slabs

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: AP W **Name:** WEST APRON **Use:** APRON **Area:** 127,971 SqFt

Section: 4115 of 3 **From:** - **To:** - **Last Const.:** 9/1/2005

Surface: AC **Family:** CA653-GA-AP-AC **Zone:** **Category:** **Rank:** P

Area: 23,595 SqFt **Length:** 50 Ft **Width:** 465 Ft

Slabs: 76 **Slab Length:** 13 Ft **Slab Width:** 25 Ft **Joint Length:** 2,275 Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 9/1/2005 **Work Type:** New Construction - AC **Code:** NC-AC **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 5 **Surveyed:** 1

Conditions: **PCI:** 46

Inspection Comments:

Sample Number: 102 **Type:** R **Area:** 5650.00 SqFt **PCI:** 46

Sample Comments:

43	BLOCK CR	L	1100.00	SqFt
48	L & T CR	L	112.00	Ft
50	PATCHING	H	24.00	SqFt
52	RAVELING	L	4220.00	SqFt
52	RAVELING	M	1406.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: RW 13-31 **Name:** RUNWAY 13-31 **Use:** RUNWAY **Area:** 445,550 SqFt

Section: 6103 of 3 **From:** - **To:** - **Last Const.:** 2/1/2011

Surface: AAC **Family:** CA653-GA-RW-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 114,068 SqFt **Length:** 1,500 Ft **Width:** 75 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1996 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 2/1/2011 **Work Type:** Mill and Overlay **Code:** ML-OVL **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 30 **Surveyed:** 5

Conditions: **PCI:** 87

Inspection Comments:

Sample Number: 73 **Type:** R **Area:** 3750.00 SqFt **PCI:** 79

Sample Comments:

48	L & T CR	L	15.00	Ft
52	RAVELING	L	600.00	SqFt
57	WEATHERING	L	3150.00	SqFt

Sample Number: 80 **Type:** R **Area:** 3750.00 SqFt **PCI:** 88

Sample Comments:

48	L & T CR	L	5.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 88 **Type:** R **Area:** 3750.00 SqFt **PCI:** 88

Sample Comments:

48	L & T CR	L	6.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 95 **Type:** R **Area:** 3750.00 SqFt **PCI:** 88

Sample Comments:

48	L & T CR	L	4.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 99 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: RW 13-31 **Name:** RUNWAY 13-31 **Use:** RUNWAY **Area:** 445,550 SqFt

Section: 6105 of 3 **From:** - **To:** - **Last Const.:** 2/1/2011

Surface: AC **Family:** CA653-GA-RW-AC **Zone:** **Category:** **Rank:** P

Area: 225,000 SqFt **Length:** 3,000 Ft **Width:** 75 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984	**Work Type:** BUILT	**Code:** IMPORTED	**Is Major M&R:** True
Work Date: 1/1/1996	**Work Type:** OVERLAY	**Code:** IMPORTED	**Is Major M&R:** True
Work Date: 2/1/2011	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 60 **Surveyed:** 12

Conditions: **PCI:** 90

Inspection Comments:

Sample Number: 102 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 105 **Type:** R **Area:** 3750.00 SqFt **PCI:** 88

Sample Comments:

48	L & T CR	L	4.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 112 **Type:** R **Area:** 3750.00 SqFt **PCI:** 88

Sample Comments:

48	L & T CR	L	3.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 118 **Type:** R **Area:** 3750.00 SqFt **PCI:** 87

Sample Comments:

48	L & T CR	L	12.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 123 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 128 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 131 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 136 **Type:** R **Area:** 3750.00 SqFt **PCI:** 87

Sample Comments:

48	L & T CR	L	50.00	Ft
57	WEATHERING	L	3675.00	SqFt
57	WEATHERING	M	75.00	SqFt

Sample Number: 142 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 148 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 153 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 158 **Type:** R **Area:** 3750.00 SqFt **PCI:** 91

Sample Comments:

57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: RW 13-31 **Name:** RUNWAY 13-31 **Use:** RUNWAY **Area:** 445,550 SqFt

Section: 6110 of 3 **From:** - **To:** - **Last Const.:** 2/1/2011

Surface: AAC **Family:** CA653-GA-RW-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 106,482 SqFt **Length:** 1,400 Ft **Width:** 75 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1996 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 2/1/2011 **Work Type:** Mill and Overlay **Code:** ML-OVL **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 28 **Surveyed:** 5

Conditions: **PCI:** 86

Inspection Comments:

Sample Number: 163 **Type:** R **Area:** 3750.00 SqFt **PCI:** 86

Sample Comments:

48	L & T CR	L	30.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 167 **Type:** R **Area:** 3750.00 SqFt **PCI:** 88

Sample Comments:

48	L & T CR	L	6.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 171 **Type:** R **Area:** 3750.00 SqFt **PCI:** 86

Sample Comments:

48	L & T CR	L	20.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 176 **Type:** R **Area:** 3750.00 SqFt **PCI:** 86

Sample Comments:

48	L & T CR	L	38.00	Ft
57	WEATHERING	L	3562.00	SqFt
57	WEATHERING	M	188.00	SqFt

Sample Number: 187 **Type:** R **Area:** 5018.00 SqFt **PCI:** 86

Sample Comments:

48	L & T CR	L	41.00	Ft
57	WEATHERING	L	4767.00	SqFt
57	WEATHERING	M	251.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A **Name:** TAXIWAY A **Use:** TAXIWAY **Area:** 235,865 SqFt

Section: 103 of 4 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AAC **Family:** CA653-GA-TW-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 74,342 SqFt **Length:** 2,140 Ft **Width:** 35 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 1/1/1996 **Work Type:** OVERLAY **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 21 **Surveyed:** 5

Conditions: **PCI:** 59

Inspection Comments:

Sample Number: 103 **Type:** R **Area:** 3500.00 SqFt **PCI:** 58

Sample Comments:

48	L & T CR	L	353.00	Ft
48	L & T CR	M	45.00	Ft
52	RAVELING	L	525.00	SqFt
56	SWELLING	L	42.00	SqFt
57	WEATHERING	L	2975.00	SqFt

Sample Number: 107 **Type:** R **Area:** 3500.00 SqFt **PCI:** 69

Sample Comments:

48	L & T CR	L	286.00	Ft
52	RAVELING	L	175.00	SqFt
57	WEATHERING	L	3325.00	SqFt

Sample Number: 111 **Type:** R **Area:** 3500.00 SqFt **PCI:** 62

Sample Comments:

48	L & T CR	L	335.00	Ft
52	RAVELING	L	525.00	SqFt
56	SWELLING	L	200.00	SqFt
57	WEATHERING	L	2975.00	SqFt

Sample Number: 116 **Type:** R **Area:** 3500.00 SqFt **PCI:** 63

Sample Comments:

48	L & T CR	L	323.00	Ft
48	L & T CR	M	10.00	Ft
52	RAVELING	L	525.00	SqFt
57	WEATHERING	L	2975.00	SqFt

Sample Number: 120 **Type:** R **Area:** 3269.00 SqFt **PCI:** 41

Sample Comments:

43	BLOCK CR	L	238.00	SqFt
48	L & T CR	L	495.00	Ft
52	RAVELING	L	981.00	SqFt
56	SWELLING	L	1800.00	SqFt
57	WEATHERING	L	2288.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A **Name:** TAXIWAY A **Use:** TAXIWAY **Area:** 235,865 SqFt

Section: 105 of 4 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AAC **Family:** CA653-GA-TW-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 37,814 SqFt **Length:** 1,820 Ft **Width:** 35 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 1/1/1996 **Work Type:** OVERLAY **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 10 **Surveyed:** 2

Conditions: **PCI:** 74

Inspection Comments:

Sample Number: 108 **Type:** R **Area:** 3500.00 SqFt **PCI:** 71

Sample Comments:

48	L & T CR	L	168.00	Ft
52	RAVELING	L	175.00	SqFt
56	SWELLING	L	100.00	SqFt
57	WEATHERING	L	3325.00	SqFt

Sample Number: 113 **Type:** R **Area:** 3500.00 SqFt **PCI:** 77

Sample Comments:

48	L & T CR	L	118.00	Ft
52	RAVELING	L	70.00	SqFt
56	SWELLING	L	35.00	SqFt
57	WEATHERING	L	3430.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A **Name:** TAXIWAY A **Use:** TAXIWAY **Area:** 235,865 SqFt

Section: 120 of 4 **From:** - **To:** - **Last Const.:** 1/1/2011

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 13,720 SqFt **Length:** 320 Ft **Width:** 35 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984	**Work Type:** BUILT	**Code:** IMPORTED	**Is Major M&R:** True
Work Date: 1/1/1996	**Work Type:** OVERLAY	**Code:** IMPORTED	**Is Major M&R:** True
Work Date: 1/1/2011	**Work Type:** New Construction - AC	**Code:** NC-AC	**Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 3 **Surveyed:** 1

Conditions: **PCI:** 86

Inspection Comments:

Sample Number: 118 **Type:** R **Area:** 4655.00 SqFt **PCI:** 86

Sample Comments:

48	L & T CR	L	28.00	Ft
57	WEATHERING	L	4422.00	SqFt
57	WEATHERING	M	233.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A **Name:** TAXIWAY A **Use:** TAXIWAY **Area:** 235,865 SqFt

Section: 125 of 4 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 109,989 SqFt **Length:** 3,000 Ft **Width:** 35 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1996 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 30 **Surveyed:** 6

Conditions: **PCI:** 61

Inspection Comments:

Sample Number: 101 **Type:** R **Area:** 6081.00 SqFt **PCI:** 58

Sample Comments:

48	L & T CR	L	236.00	Ft
48	L & T CR	M	12.00	Ft
52	RAVELING	L	5473.00	SqFt
52	RAVELING	M	608.00	SqFt
56	SWELLING	L	10.00	SqFt

Sample Number: 110 **Type:** R **Area:** 3500.00 SqFt **PCI:** 64

Sample Comments:

48	L & T CR	L	35.00	Ft
52	RAVELING	L	3495.00	SqFt
52	RAVELING	M	5.00	SqFt

Sample Number: 115 **Type:** R **Area:** 3500.00 SqFt **PCI:** 62

Sample Comments:

48	L & T CR	L	122.00	Ft
52	RAVELING	L	2900.00	SqFt
52	RAVELING	M	600.00	SqFt

Sample Number: 120 **Type:** R **Area:** 3500.00 SqFt **PCI:** 63

Sample Comments:

48	L & T CR	L	64.00	Ft
52	RAVELING	L	2900.00	SqFt
52	RAVELING	M	600.00	SqFt

Sample Number: 124 **Type:** R **Area:** 3500.00 SqFt **PCI:** 58

Sample Comments:

48	L & T CR	L	116.00	Ft
48	L & T CR	M	5.00	Ft
52	RAVELING	L	3300.00	SqFt
52	RAVELING	M	200.00	SqFt
56	SWELLING	L	6.00	SqFt

Sample Number: 125 **Type:** R **Area:** 3500.00 SqFt **PCI:** 63

Sample Comments:

48	L & T CR	L	100.00	Ft
52	RAVELING	L	3495.00	SqFt
52	RAVELING	M	5.00	SqFt
56	SWELLING	L	5.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A1 **Name:** TAXIWAY A1 **Use:** TAXIWAY **Area:** 28,523 SqFt

Section: 104 of 2 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AAC **Family:** CA653-GA-TW-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 26,288 SqFt **Length:** 600 Ft **Width:** 35 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** New Construction - Initial **Code:** NU-IN **Is Major M&R:** True

Work Date: 1/1/1996 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 6 **Surveyed:** 1

Conditions: **PCI:** 69

Inspection Comments:

Sample Number: 102 **Type:** R **Area:** 3500.00 SqFt **PCI:** 69

Sample Comments:

48	L & T CR	L	223.00	Ft
48	L & T CR	M	40.00	Ft
52	RAVELING	L	70.00	SqFt
57	WEATHERING	L	3430.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A1 **Name:** TAXIWAY A1 **Use:** TAXIWAY **Area:** 28,523 SqFt

Section: 110 of 2 **From:** - **To:** - **Last Const.:** 2/11/2011

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 2,235 SqFt **Length:** 150 Ft **Width:** 15 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984	**Work Type:** New Construction - Initial	**Code:** NU-IN	**Is Major M&R:** True
Work Date: 1/1/1996	**Work Type:** Overlay - AC Structural	**Code:** OL-AS	**Is Major M&R:** True
Work Date: 2/11/2011	**Work Type:** Complete Reconstruction - AC	**Code:** CR-AC	**Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 77

Inspection Comments:

Sample Number: 99 **Type:** R **Area:** 2235.00 SqFt **PCI:** 77

Sample Comments:

48	L & T CR	L	118.00	Ft
57	WEATHERING	L	2190.00	SqFt
57	WEATHERING	M	45.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A2 **Name:** TAXIWAY A2 **Use:** TAXIWAY **Area:** 84,446 SqFt

Section: 205 of 3 **From:** - **To:** - **Last Const.:** 2/1/2011

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 4,599 SqFt **Length:** 110 Ft **Width:** 27 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984	**Work Type:** BUILT	**Code:** IMPORTED	**Is Major M&R:** True
Work Date: 1/1/1996	**Work Type:** OVERLAY	**Code:** IMPORTED	**Is Major M&R:** True
Work Date: 2/1/2011	**Work Type:** Complete Reconstruction - AC	**Code:** CR-AC	**Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 83

Inspection Comments:

Sample Number: 100 **Type:** R **Area:** 4599.00 SqFt **PCI:** 83

Sample Comments:

48	L & T CR	L	116.00	Ft
57	WEATHERING	L	4369.00	SqFt
57	WEATHERING	M	230.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A2 **Name:** TAXIWAY A2 **Use:** TAXIWAY **Area:** 84,446 SqFt

Section: 210 of 3 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AAC **Family:** CA653-GA-TW-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 38,437 SqFt **Length:** 900 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 1/1/1996 **Work Type:** OVERLAY **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 10 **Surveyed:** 2

Conditions: **PCI:** 54

Inspection Comments:

Sample Number: 102 **Type:** R **Area:** 3500.00 SqFt **PCI:** 60

Sample Comments:

48	L & T CR	L	116.00	Ft
48	L & T CR	M	3.00	Ft
52	RAVELING	L	3480.00	SqFt
52	RAVELING	M	20.00	SqFt

Sample Number: 109 **Type:** R **Area:** 3027.00 SqFt **PCI:** 47

Sample Comments:

48	L & T CR	L	174.00	Ft
48	L & T CR	M	50.00	Ft
52	RAVELING	L	1968.00	SqFt
52	RAVELING	M	1059.00	SqFt
56	SWELLING	L	6.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A2 **Name:** TAXIWAY A2 **Use:** TAXIWAY **Area:** 84,446 SqFt

Section: 215 of 3 **From:** - **To:** - **Last Const.:** 1/1/1984

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 41,410 SqFt **Length:** 1,011 Ft **Width:** 50 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 10 **Surveyed:** 2

Conditions: **PCI:** 36

Inspection Comments:

Sample Number: 112 **Type:** R **Area:** 4000.00 SqFt **PCI:** 31

Sample Comments:

48	L & T CR	L	246.00	Ft
48	L & T CR	M	180.00	Ft
50	PATCHING	L	400.00	SqFt
52	RAVELING	M	3600.00	SqFt

Sample Number: 115 **Type:** R **Area:** 4000.00 SqFt **PCI:** 41

Sample Comments:

48	L & T CR	L	404.00	Ft
48	L & T CR	M	160.00	Ft
52	RAVELING	L	2000.00	SqFt
52	RAVELING	M	2000.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A3 **Name:** TAXIWAY A3 **Use:** TAXIWAY **Area:** 40,597 SqFt

Section: 410 of 2 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 34,501 SqFt **Length:** 840 Ft **Width:** 35 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1996 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 8 **Surveyed:** 3

Conditions: **PCI:** 64

Inspection Comments:

Sample Number: 101 **Type:** R **Area:** 5659.00 SqFt **PCI:** 65

Sample Comments:

48	L & T CR	L	119.00	Ft
48	L & T CR	M	5.00	Ft
52	RAVELING	L	2830.00	SqFt
56	SWELLING	L	8.00	SqFt
57	WEATHERING	L	2829.00	SqFt

Sample Number: 105 **Type:** R **Area:** 3500.00 SqFt **PCI:** 73

Sample Comments:

48	L & T CR	L	115.00	Ft
52	RAVELING	L	875.00	SqFt
56	SWELLING	L	15.00	SqFt
57	WEATHERING	L	2625.00	SqFt

Sample Number: 107 **Type:** R **Area:** 6162.00 SqFt **PCI:** 58

Sample Comments:

48	L & T CR	L	174.00	Ft
50	PATCHING	L	600.00	SqFt
52	RAVELING	L	5284.00	SqFt
52	RAVELING	M	278.00	SqFt
56	SWELLING	L	25.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW A3 **Name:** TAXIWAY A3 **Use:** TAXIWAY **Area:** 40,597 SqFt

Section: 415 of 2 **From:** - **To:** - **Last Const.:** 2/1/2011

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 6,096 SqFt **Length:** 156 Ft **Width:** 39 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1996 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 2/1/2011 **Work Type:** Complete Reconstruction - AC **Code:** CR-AC **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 85

Inspection Comments:

Sample Number: 100 **Type:** R **Area:** 6096.00 SqFt **PCI:** 85

Sample Comments:

48	L & T CR	L	91.00	Ft
57	WEATHERING	L	5791.00	SqFt
57	WEATHERING	M	305.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW AP E **Name:** EAST APRON TAXIWAY **Use:** TAXIWAY **Area:** 15,760 SqFt

Section: 710 of 1 **From:** - **To:** - **Last Const.:** 12/25/1999

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 15,760 SqFt **Length:** 480 Ft **Width:** 35 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 12/25/1999 **Work Type:** New Construction - Initial **Code:** NU-IN **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 5 **Surveyed:** 1

Conditions: **PCI:** 59

Inspection Comments:

Sample Number: 101 **Type:** R **Area:** 3504.00 SqFt **PCI:** 59

Sample Comments:

45	DEPRESSION	L	40.00	SqFt
48	L & T CR	L	164.00	Ft
48	L & T CR	M	85.00	Ft
52	RAVELING	L	3504.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW AP W **Name:** WEST APRON TAXIWAY **Use:** TAXIWAY **Area:** 2,718 SqFt

Section: 305 of 1 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AAC **Family:** CA653-GA-TW-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 2,718 SqFt **Length:** 83 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 1/1/1996 **Work Type:** Overlay - AC Structural **Code:** OL-AS **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 43

Inspection Comments:

Sample Number: 100 **Type:** R **Area:** 2718.00 SqFt **PCI:** 43

Sample Comments:

45	DEPRESSION	L	6.00	SqFt
48	L & T CR	L	112.00	Ft
48	L & T CR	M	105.00	Ft
50	PATCHING	M	504.00	SqFt
52	RAVELING	L	2214.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW HANG **Name:** HANGAR TAXIWAY **Use:** TAXIWAY **Area:** 36,667 SqFt

Section: 405 of 2 **From:** - **To:** - **Last Const.:** 1/1/1984

Surface: AAC **Family:** CA653-GA-TW-AAC-APC **Zone:** **Category:** **Rank:** P

Area: 33,514 SqFt **Length:** 655 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1984 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 6 **Surveyed:** 2

Conditions: **PCI:** 13

Inspection Comments:

Sample Number: 103 **Type:** R **Area:** 6465.00 SqFt **PCI:** 6

Sample Comments:

41	ALLIGATOR CR	M	405.00	SqFt
43	BLOCK CR	L	2424.00	SqFt
43	BLOCK CR	M	3636.00	SqFt
45	DEPRESSION	L	130.00	SqFt
52	RAVELING	M	6465.00	SqFt

Sample Number: 104 **Type:** R **Area:** 5046.00 SqFt **PCI:** 22

Sample Comments:

41	ALLIGATOR CR	M	50.00	SqFt
43	BLOCK CR	L	1125.00	SqFt
43	BLOCK CR	M	1125.00	SqFt
45	DEPRESSION	L	4.00	SqFt
48	L & T CR	L	120.00	Ft
48	L & T CR	M	85.00	Ft
50	PATCHING	H	40.00	SqFt
52	RAVELING	M	5006.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW HANG **Name:** HANGAR TAXIWAY **Use:** TAXIWAY **Area:** 36,667 SqFt

Section: 407 of 2 **From:** - **To:** - **Last Const.:** 1/1/2011

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 3,153 SqFt **Length:** 100 Ft **Width:** 40 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1996 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Work Date: 1/1/2011 **Work Type:** Complete Reconstruction - AC **Code:** CR-AC **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 1 **Surveyed:** 1

Conditions: **PCI:** 85

Inspection Comments:

Sample Number: 100 **Type:** R **Area:** 3153.00 SqFt **PCI:** 85

Sample Comments:

48	L & T CR	L	50.00	Ft
57	WEATHERING	L	2995.00	SqFt
57	WEATHERING	M	158.00	SqFt

Network: 2IS **Name:** AIRGLADES AIRPORT

Branch: TW S **Name:** TAXIWAY S **Use:** TAXIWAY **Area:** 45,015 SqFt

Section: 605 of 1 **From:** - **To:** - **Last Const.:** 1/1/1996

Surface: AC **Family:** CA653-GA-TW-AC **Zone:** **Category:** **Rank:** P

Area: 45,015 SqFt **Length:** 1,241 Ft **Width:** 35 Ft

Slabs: **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

Shoulder: **Street Type:** **Grade:** 0 **Lanes:** 0

Section Comments:

Work Date: 1/1/1996 **Work Type:** BUILT **Code:** IMPORTED **Is Major M&R:** True

Last Insp. Date: 10/20/2020 **TotalSamples:** 12 **Surveyed:** 3

Conditions: **PCI:** 58

Inspection Comments:

Sample Number: 101 **Type:** R **Area:** 3500.00 SqFt **PCI:** 52

Sample Comments:

48	L & T CR	L	476.00	Ft
52	RAVELING	L	2800.00	SqFt
56	SWELLING	L	600.00	SqFt
57	WEATHERING	L	700.00	SqFt

Sample Number: 105 **Type:** R **Area:** 3500.00 SqFt **PCI:** 63

Sample Comments:

48	L & T CR	L	183.00	Ft
48	L & T CR	M	50.00	Ft
52	RAVELING	L	2100.00	SqFt
56	SWELLING	L	2.00	SqFt
57	WEATHERING	L	1400.00	SqFt

Sample Number: 109 **Type:** R **Area:** 3500.00 SqFt **PCI:** 58

Sample Comments:

48	L & T CR	L	241.00	Ft
48	L & T CR	M	40.00	Ft
50	PATCHING	L	240.00	SqFt
52	RAVELING	L	3260.00	SqFt
56	SWELLING	L	3.00	SqFt

FLORIDA DEPARTMENT OF TRANSPORTATION | **AVIATION OFFICE**

OFFICE OF FREIGHT, LOGISTICS & PASSENGER OPERATIONS

FDOT