

2022

Statewide Airfield Pavement Management Program



# Airport Pavement Evaluation Report

LNA - Palm Beach County Park Airport | *District 4*



AVIATION



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*Florida Department of Transportation*

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# ***Statewide Airfield Pavement Management Program***

## **Airport Pavement Evaluation Report**

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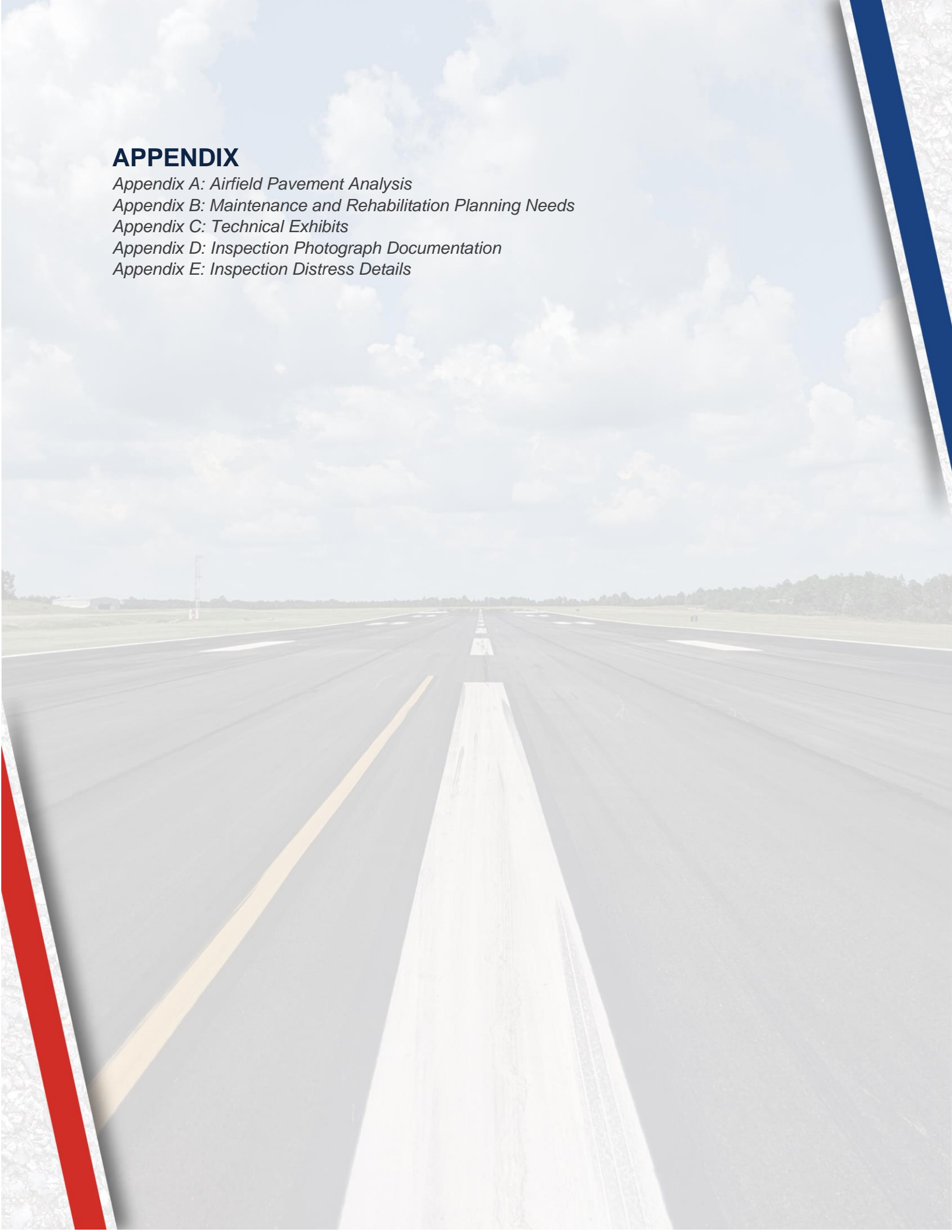
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# Executive Summary



# 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). The scope of the SAPMP encompasses 95 public-use airport facilities distributed throughout the seven (7) participating FDOT Districts. Palm Beach County Park 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 D5340-20 "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 D5340-20, 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. This is graphically depicted in **Figure E.1**.

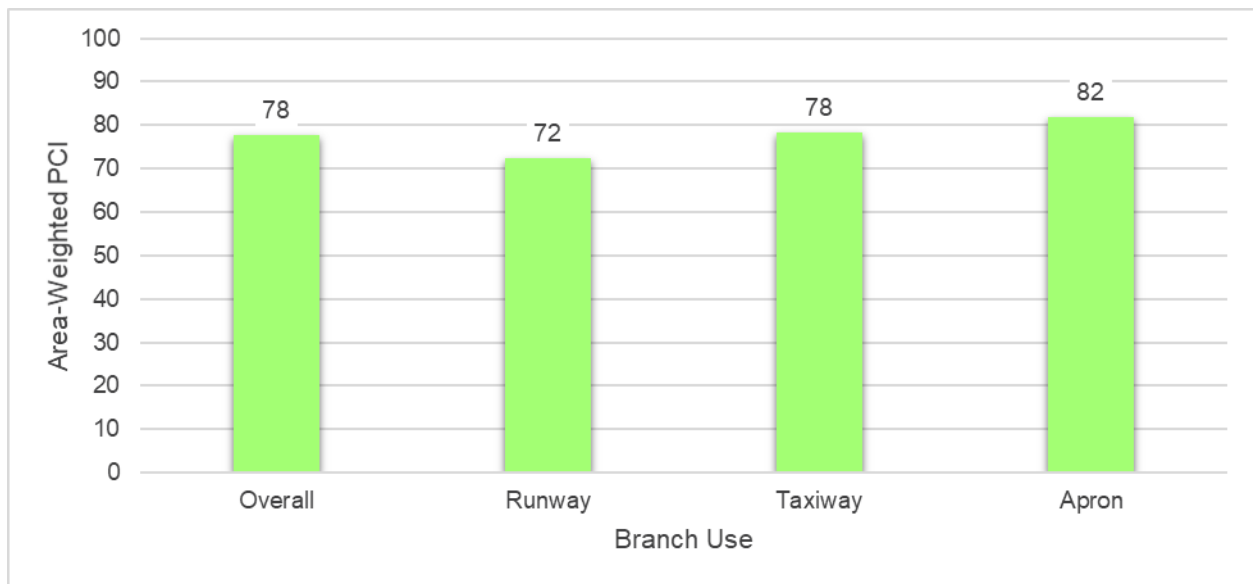
*Figure E.1: PCI Rating*

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 August 2022, approximately 2.2 million square feet of pavement was assessed as part of the airside pavement network PCI survey at Palm Beach County Park Airport (LNA). In general, airfield pavements at LNA are in Satisfactory condition with an area-weighted PCI of 78. The area-weighted average PCI values of the runways, taxiways, and aprons are 72, 78, and 82, respectively. **Figure E.2** and **Table E.1** summarize the current PCI values for LNA.

*Figure E.2: Current 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
LNA	RW 4-22	Runway	6305	216,104	67	Fair
LNA	RW 4-22	Runway	6310	13,113	86	Good
LNA	RW 10-28	Runway	6103	29,577	85	Satisfactory
LNA	RW 10-28	Runway	6105	223,605	76	Satisfactory
LNA	RW 16-34	Runway	6205	27,600	73	Satisfactory
LNA	RW 16-34	Runway	6215	315,000	72	Satisfactory
LNA	TW A	Taxiway	310	110,651	74	Satisfactory
LNA	TW B	Taxiway	205	99,105	71	Satisfactory
LNA	TW B	Taxiway	207	5,659	84	Satisfactory
LNA	TW B	Taxiway	210	11,820	77	Satisfactory
LNA	TW B1	Taxiway	215	3,442	70	Fair
LNA	TW B1	Taxiway	217	5,087	85	Satisfactory
LNA	TW B2	Taxiway	220	4,124	69	Fair
LNA	TW B2	Taxiway	223	5,529	83	Satisfactory
LNA	TW C	Taxiway	105	170,104	86	Good
LNA	TW D	Taxiway	120	5,048	87	Good
LNA	TW D	Taxiway	125	9,691	74	Satisfactory

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	PCI	Condition Rating
LNA	TW E	Taxiway	103	16,849	76	Satisfactory
LNA	TW P	Taxiway	115	12,354	76	Satisfactory
LNA	AP GA	Apron	4105	406,856	88	Good
LNA	AP GA	Apron	4110	183,191	57	Fair
LNA	AP GA	Apron	4120	124,452	86	Good
LNA	AP GA	Apron	4125	136,401	88	Good
LNA	AP GA	Apron	4130	35,084	100	Good
LNA	AP GA	Apron	4135	3,206	100	Good
LNA	AP RU 10	Apron	4205	30,821	86	Good
LNA	AP RU 16	Apron	4305	6,377	61	Fair

## Forecasted Pavement Conditions

**Table E.2** provides section-level details for PCI forecasts. Pavement condition forecasts should be used for planning purposes only, as the actual condition of sections is subject to 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 2023-2032 – Section-Level*

Network ID	Branch ID	Section ID	Current PCI	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
LNA	RW 4-22	6305	67	67	66	66	65	65	64	64	63	62	62
LNA	RW 4-22	6310	86	84	82	81	79	78	76	75	74	73	72
LNA	RW 10-28	6103	85	83	82	80	78	77	76	75	74	73	72
LNA	RW 10-28	6105	76	75	74	73	72	71	70	70	69	68	68
LNA	RW 16-34	6205	73	71	70	68	66	64	63	61	59	58	56
LNA	RW 16-34	6215	72	70	69	67	65	63	62	60	58	57	55
LNA	TW A	310	74	73	72	71	70	69	68	67	66	65	64
LNA	TW B	205	71	70	69	68	67	66	66	65	64	63	63
LNA	TW B	207	84	82	81	79	77	76	74	73	71	70	69
LNA	TW B	210	77	76	74	73	71	70	69	68	67	66	65
LNA	TW B1	215	70	69	68	67	66	66	65	64	63	63	62
LNA	TW B1	217	85	83	81	80	78	76	75	74	72	71	70
LNA	TW B2	220	69	68	67	66	66	65	64	63	63	62	62
LNA	TW B2	223	83	81	80	78	76	75	73	72	71	70	68
LNA	TW C	105	86	84	83	81	79	78	77	75	74	73	72
LNA	TW D	120	87	85	83	81	80	78	76	75	74	72	71
LNA	TW D	125	74	73	71	70	69	68	67	66	65	64	63
LNA	TW E	103	76	75	74	72	71	70	69	68	67	66	66
LNA	TW P	115	76	75	74	72	71	70	69	68	67	66	66
LNA	AP GA	4105	88	86	84	82	80	78	76	75	73	71	70

Network ID	Branch ID	Section ID	Current PCI	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
LNA	AP GA	4110	57	56	56	55	54	54	53	53	52	52	51
LNA	AP GA	4120	86	84	82	80	77	75	73	71	69	66	64
LNA	AP GA	4125	88	86	84	82	80	78	76	75	73	71	70
LNA	AP GA	4130	100	96	94	91	89	87	85	83	81	79	77
LNA	AP GA	4135	100	98	97	95	94	93	92	91	90	88	87
LNA	AP RU 10	4205	86	84	82	80	78	76	75	73	71	70	68
LNA	AP RU 16	4305	61	60	59	58	57	57	56	55	55	54	54

## Major Rehabilitation Planning 2023-2032

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.

Due to 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; however, based on the thresholds identified by the FAA in the AIP Handbook, major rehabilitation will now be identified for pavement sections below a PCI value of 70.

The results of the maintenance, repair, and major rehabilitation analysis identified approximately \$25.80M in major rehabilitation needs for the 10-year forecast period. Year 1 major needs are \$4.34M and localized maintenance needs for Year 1 are \$0.21M.

*Table E.3: Major Rehabilitation Planning 2023-2032*

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2023	LNA	RW 4-22	6305	AC	216,104	67	AC Rehabilitation	\$ 2,270,000
2023	LNA	TW B1	215	AC	3,442	69	AC Rehabilitation	\$ 37,000
2023	LNA	TW B2	220	AC	4,124	68	AC Rehabilitation	\$ 44,000
2023	LNA	AP GA	4110	AC	183,191	56	AC Rehabilitation	\$ 1,924,000
2023	LNA	AP RU 16	4305	AC	6,377	60	AC Rehabilitation	\$ 67,000
2024	LNA	RW 16-34	6205	AAC	27,600	70	AC Rehabilitation	\$ 305,000
2024	LNA	RW 16-34	6215	AAC	315,000	69	AC Rehabilitation	\$ 3,473,000
2024	LNA	TW B	205	AC	99,105	69	AC Rehabilitation	\$ 1,093,000
2026	LNA	TW A	310	AC	110,651	70	AC Rehabilitation	\$ 1,345,000

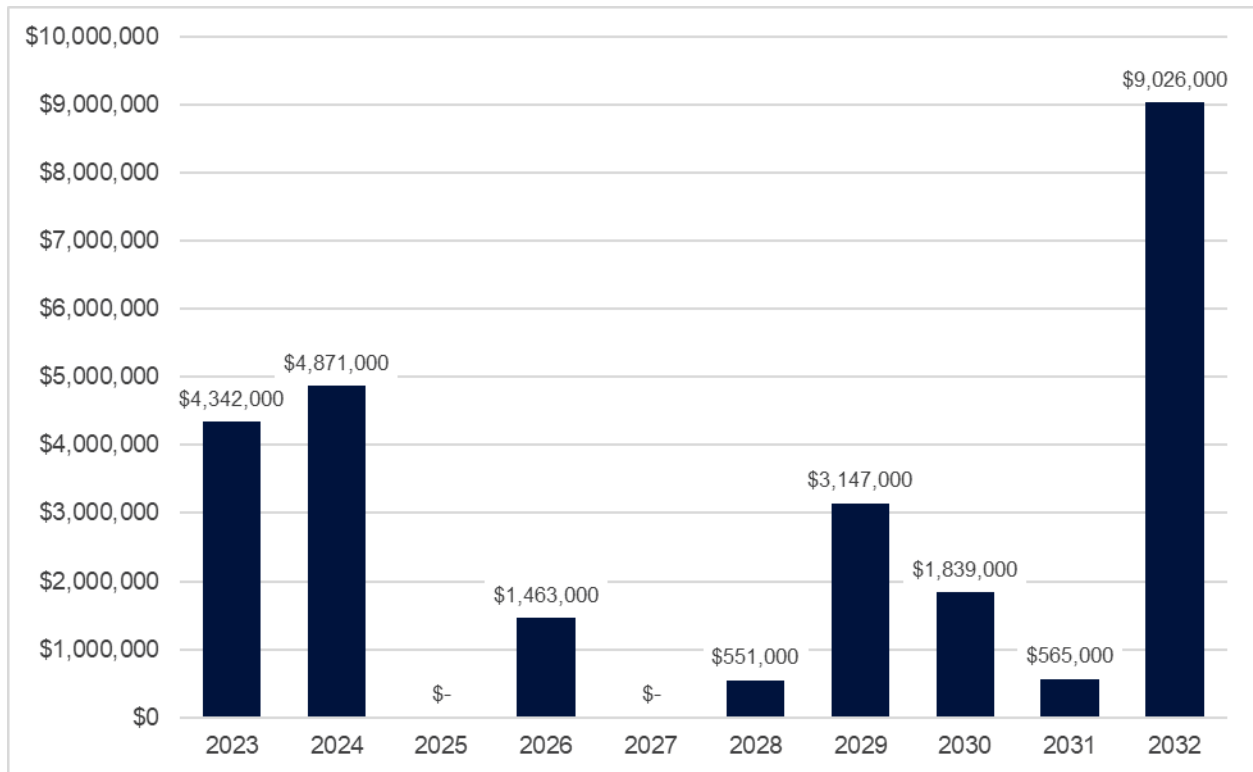
# Airport Pavement Evaluation Report

## Statewide Airfield Pavement Management Program

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2026	LNA	TW D	125	AAC	9,691	69	AC Rehabilitation	\$ 118,000
2028	LNA	TW B	210	AAC	11,820	69	AC Rehabilitation	\$ 159,000
2028	LNA	TW E	103	AC	16,849	69	AC Rehabilitation	\$ 226,000
2028	LNA	TW P	115	AC	12,354	69	AC Rehabilitation	\$ 166,000
2029	LNA	RW 10-28	6105	AC	223,605	70	AC Rehabilitation	\$ 3,147,000
2030	LNA	AP GA	4120	AAC	124,452	69	AC Rehabilitation	\$ 1,839,000
2031	LNA	TW B2	223	AAC	5,529	70	AC Rehabilitation	\$ 86,000
2031	LNA	AP RU 10	4205	AC	30,821	70	AC Rehabilitation	\$ 479,000
2032	LNA	TW B	207	AAC	5,659	69	AC Rehabilitation	\$ 93,000
2032	LNA	TW B1	217	AAC	5,087	70	AC Rehabilitation	\$ 83,000
2032	LNA	AP GA	4105	AC	406,856	70	AC Rehabilitation	\$ 6,628,000
2032	LNA	AP GA	4125	AC	136,401	70	AC Rehabilitation	\$ 2,222,000

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

Figure E.3: 10-Year Major Rehabilitation Needs by Program Year





# 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 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 General Aviation (GA), Reliever (RL), and Primary/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.

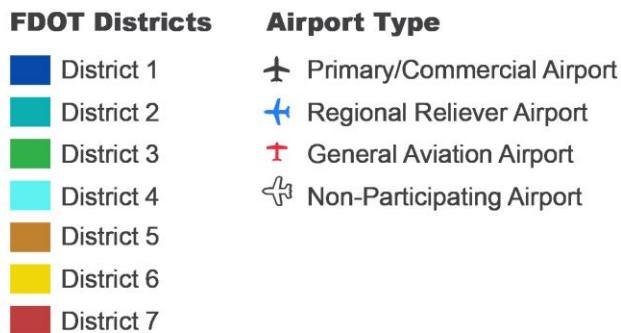
There are millions of square feet of pavement infrastructure at airports across a network of runways, taxiways, aprons, and other areas. This pavement infrastructure is vital to the support and safety of aircraft operations. Timely maintenance, repair, and major rehabilitation of pavement infrastructure 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 Circulars 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 D5340-20 "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

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



## 1.2 Stakeholders

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
<b>FAA Orlando Airports District Office (Orlando ADO)</b>	Key Stakeholder: local ADO Program Manager personnel that oversees the grant administration of AIP grant with Planning Agency Sponsor (Florida Department of Transportation).
<b>Florida Department of Transportation (FDOT)</b>	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.
<b>FDOT District Offices</b>	The seven (7) 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 development for maintenance, repair, and major rehabilitation opinions of probable construction costs for planning purposes.
<b>Participating Public-Use and Publicly-Owned Airports</b>	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.
<b>Aviation Office Program Manager (AO-PM)</b>	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 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 that 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.

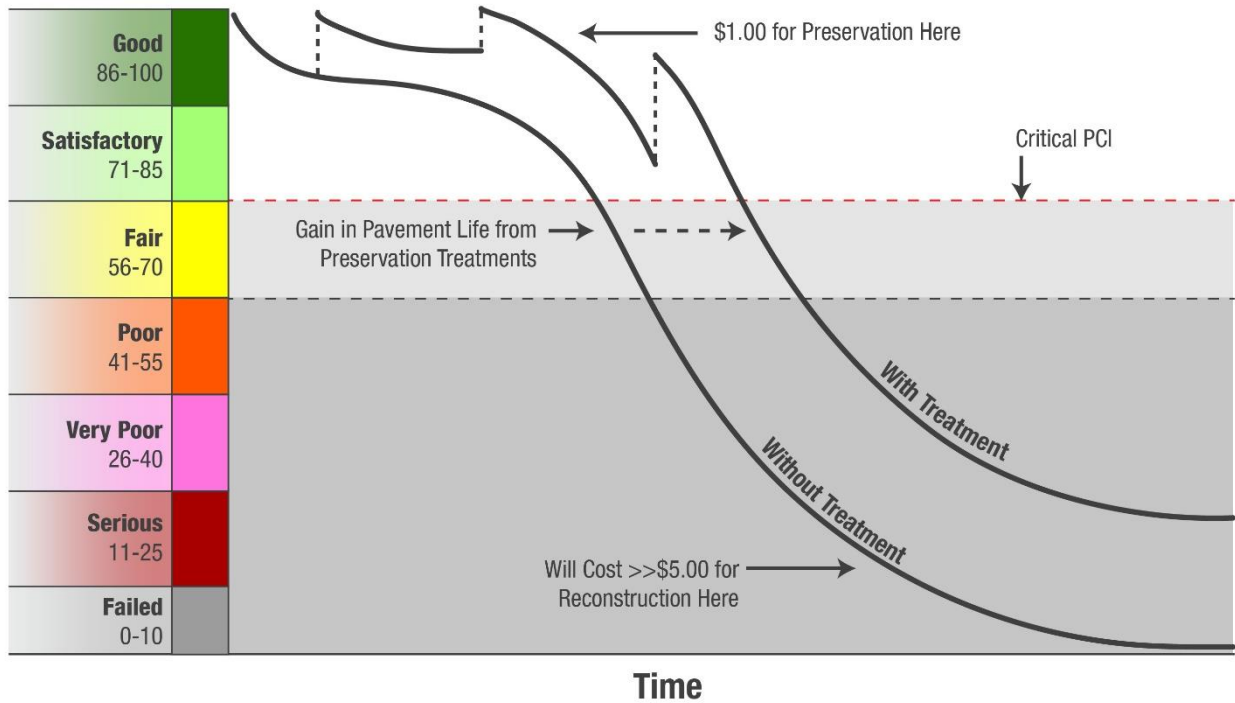
A comprehensive SAPMP provides information that assists with the project programming process. The primary objectives of the FDOT SAPMP consist of the following:

- » 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 D5340-20 (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 before they reach 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: Pavement Life and the Effect of Treatments



FAA Eligibility Thresholds: ☐ >70: Routine Maintenance ☐ 55-70: Rehabilitation Eligible ☐ <55: Reconstruction Eligible

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



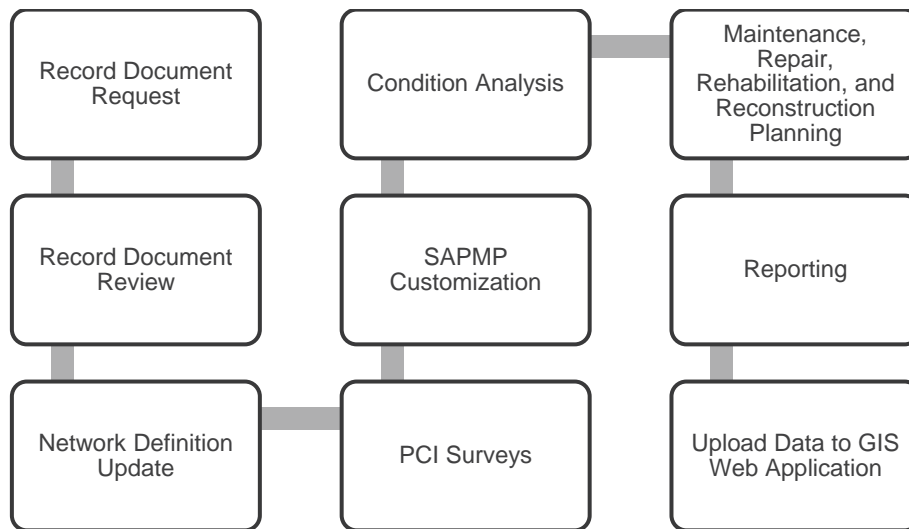
## Chapter 2: Methodology



## 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 ASTM D5340-20;
- » 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 (routine, emergency, and proactive) related to the pavement facilities. These records 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, and 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.

### 2.3.1 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.

### 2.3.2 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.

### 2.3.3 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 (WT), Thin (TWT), and Ultra-Thin (UWT).

#### **Conventional Whitetopping (WT)**

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 (UWT)**

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 LNA'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. 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 section PCI to a value of 100.

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 ( $\pm 8$  slabs) for PCC pavement and 5,000 contiguous square feet ( $\pm 2,000$  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
<b>Network</b>	Totality of pavement assets maintained by the Airport.	"Tallahassee International Airport – Airfield Pavements"
<b>Branch Name</b>	Commonly defined asset name as established by Airport and by use.	"Runway 18-36"
<b>Branch ID</b>	Codified shorthand name for commonly defined asset established for database identification.	"RW 18-36" RW, Branch Use, "Runway" "Runway 18-36", Runway Facility
<b>Section ID</b>	Codified identification for pavement asset that is distinct by pavement composition, work history, aircraft loading, or condition.	"6105"
<b>Sample Unit</b>	A numeric identification of an area of pavement (5,000 $\pm$ 2,000 SF of AC or 20 $\pm$ 8 slabs of PCC) that has been inspected in accordance with ASTM D5340-20.	"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 D5340-20. 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 D5340-20 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	Runway Sampling Rate	Taxiways, Aprons, and Others Sampling Rate
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


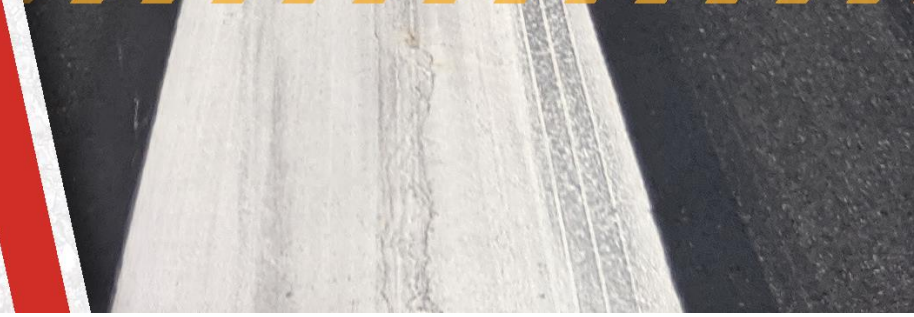
*Table 2.6.2 (b): Recommended Sampling Rates for Portland Cement Concrete*

Number of Total Sample Units in Section	Runway Sampling Rate	Taxiways, Aprons, and Others Sampling Rate
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 surveys 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.

A photograph of a long, straight airfield runway stretching towards the horizon under a bright blue sky with scattered white clouds. The runway has a central white line and side yellow lines. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

# **Chapter 3: Airfield Pavement System Inventory**

A horizontal band of yellow chevron patterns pointing to the right, located below the chapter title.A close-up, low-angle view of the runway pavement, showing the texture of the asphalt and the white center line. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

## 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

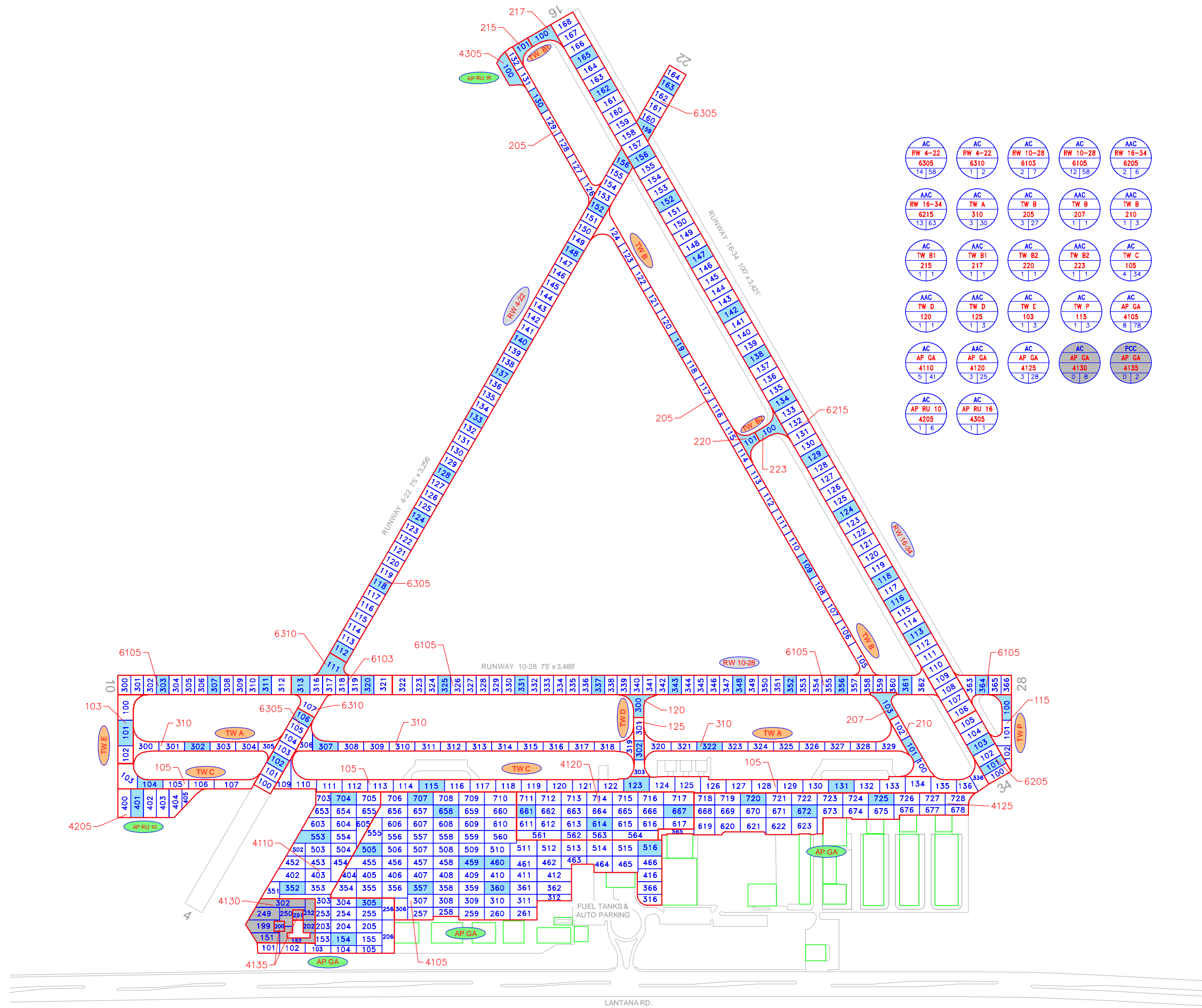
Based on information provided by the Airport, **Table 3.1.1** summarizes recent or anticipated airfield pavement construction projects since 2017.

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

Construction Year	Location	Work Type / Pavement Section
2021	AP GA	Complete Reconstruction - AC   2" P-403, 6" P-211, 4" P-154, P-152
	AP GA	Complete Reconstruction - PCC   5" P-610, 12" COMPACTED SUBGRADE
2023	RW 4-22, AP GA	Mill and Overlay

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.



AC RW 4-22 6305 14   58	AC RW 4-22 6310 1   2	AC RW 10-28 6103 2   7	AC RW 10-28 6105 12   58	AAC RW 16-34 6205 2   6
AAC RW 16-34 6215 13   63	AC TW A 310 3   30	AC TW B 205 3   27	AAC TW B 207 1   1	AAC TW B 210 1   3
AC TW B1 215 1   1	AAC TW B1 217 1   1	AC TW B2 220 1   1	AAC TW B2 223 1   1	AC TW C 105 4   34
AAC TW D 120 1   1	AAC TW D 125 1   3	AC TW E 103 1   3	AC TW P 115 1   3	AC AP GA 4105 8   78
AC AP GA 4110 5   41	AAC AP GA 4120 3   25	AC AP GA 4125 3   28	AC AP GA 4130 0   8	PCC AP GA 4135 0   2
AC AP RU 10 4205 1   6	AC AP RU 16 4305 1   1			

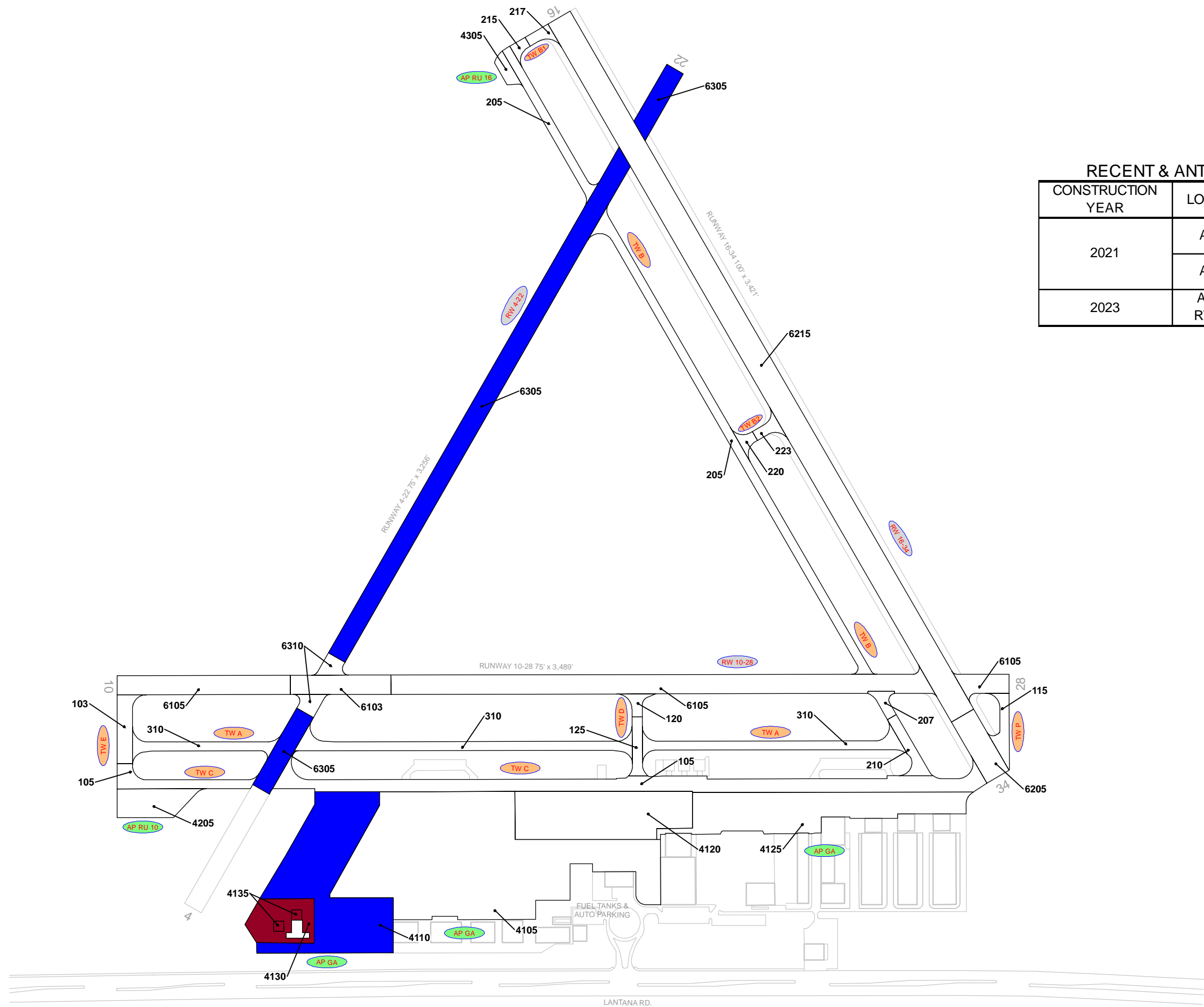
**LEGEND**

- TYPICAL RUNWAY BRANCH ID
- TYPICAL TAXIWAY BRANCH ID
- TYPICAL APRON BRANCH ID
- PAVEMENT SURFACE TYPE
- PAVEMENT BRANCH ID
- SECTION NUMBER
- NUMBER OF SAMPLE UNITS IN SECTION
- NUMBER OF SAMPLE UNITS TO BE INSPECTED
- SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.
- INSPECTED SAMPLE UNITS.

TOTAL SAMPLES INSPECTED = 85  
AC: 85    PCC: 0

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

LANTANA RD.



RECENT & ANTICIPATED CONSTRUCTION ACTIVITY

CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2021	AP GA	Complete Reconstruction - AC   2" P-403, 6" P-211, 4" P-154, P-152
	AP GA	Complete Reconstruction - PCC   5" P-610, 12" COMPACTED SUBGRADE
2023	AP GA, RW 4-22	Mill and Overlay

**LEGEND**

TYPICAL RUNWAY BRANCH ID  
 TYPICAL TAXIWAY BRANCH ID  
 TYPICAL APRON BRANCH ID

**PROJECT YEAR**

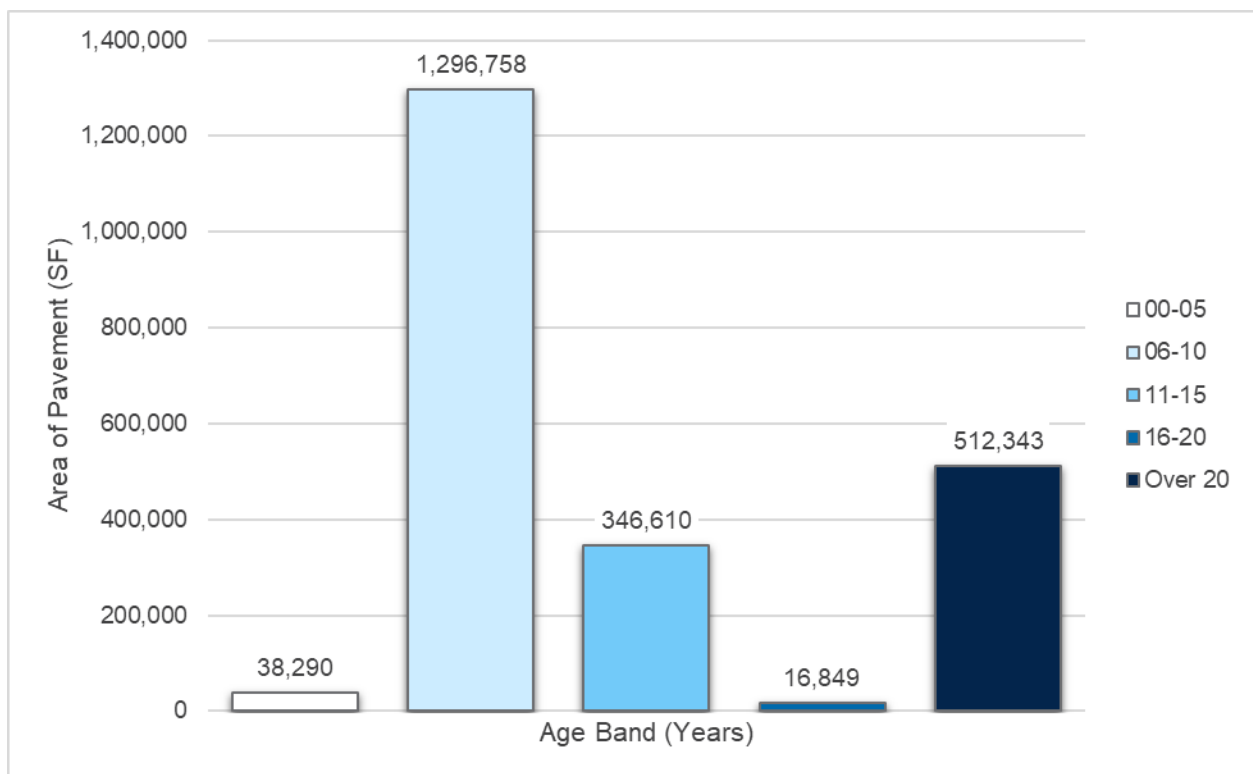
2017	2022
2018	2023
2019	2024
2020	2025
2021	2026

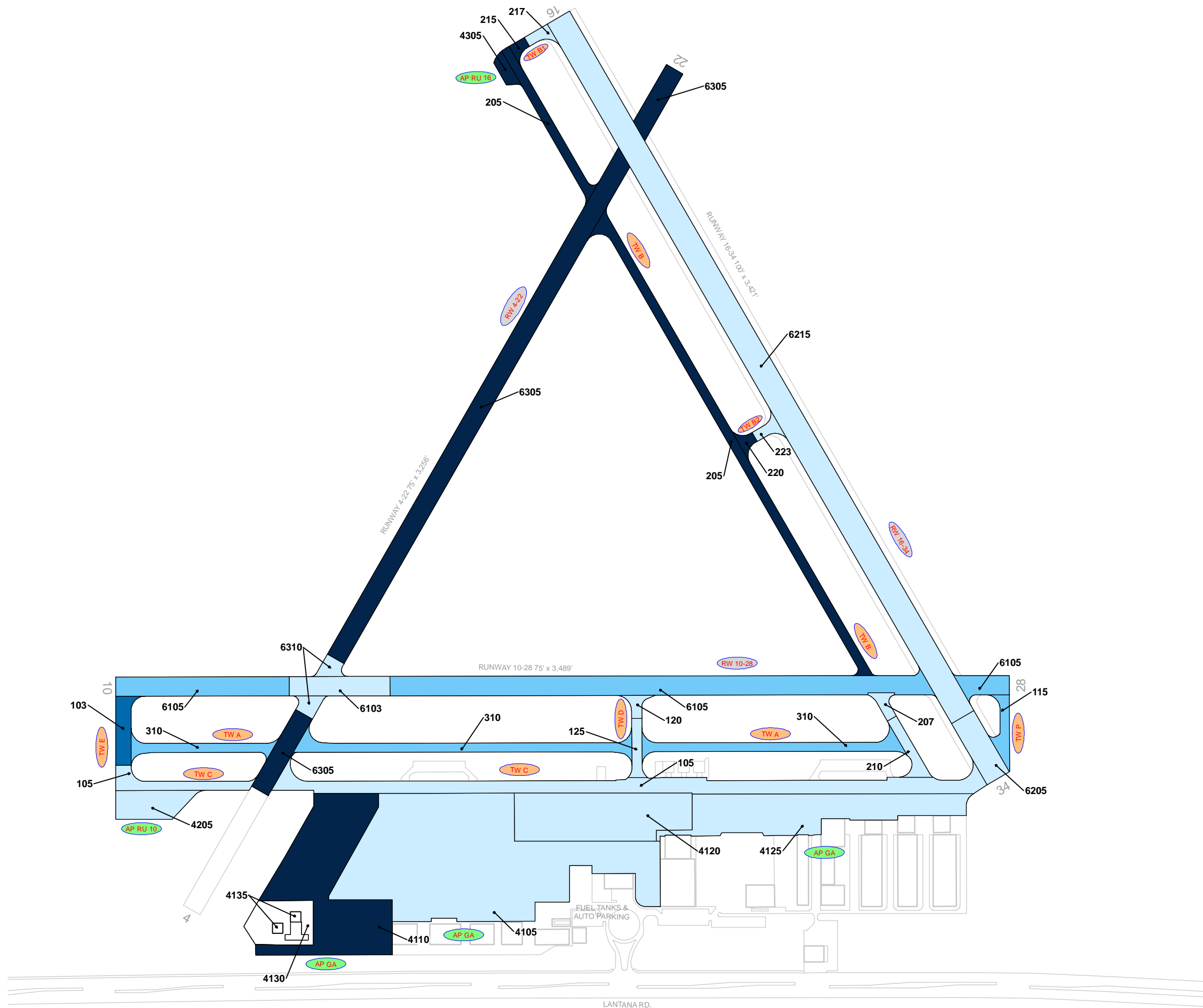
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS. DRAWING NOT TO SCALE.

### 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**

TYPICAL RUNWAY BRANCH ID  
 TYPICAL TAXIWAY BRANCH ID  
 TYPICAL APRON BRANCH ID

**AGE AT INSPECTION**

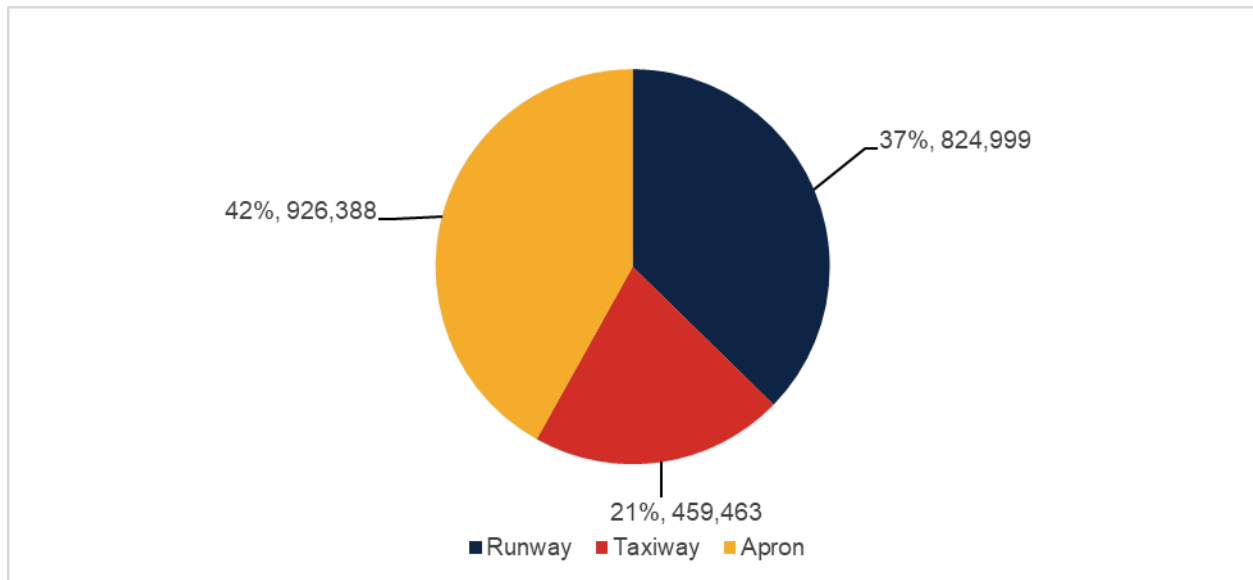
	0-5 Years
	6-10 Years
	11-15 Years
	16-20 Years
	> 20 Years

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

### 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)*

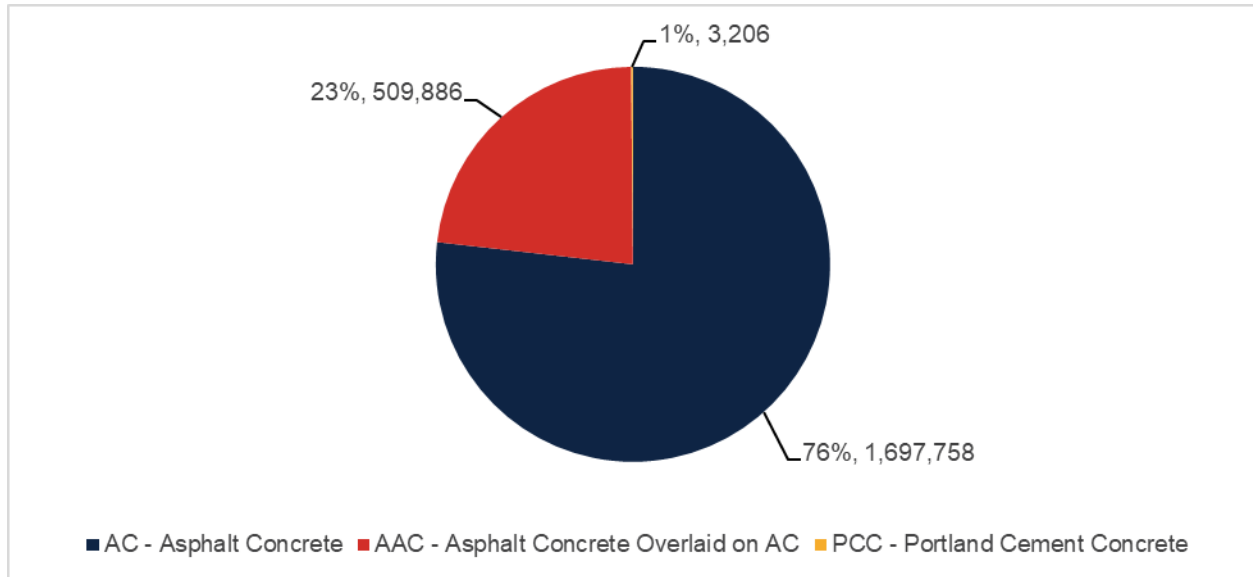


### 3.1.4 Pavement Surface Type

The airfield pavement facility surface types within the SAPMP include four (4) common types of pavement: Asphalt Concrete (AC), Asphalt Concrete overlaid on Asphalt Concrete (AAC), Asphalt Concrete overlaid on Portland cement concrete (APC), and Portland cement concrete (PCC).

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 LNA.

*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, which is based on record documentation provided by the airports and from previous System 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
LNA	RW 4-22	Runway	6305	216,104	AC	1/1/1993
LNA	RW 4-22	Runway	6310	13,113	AC	1/1/2016
LNA	RW 10-28	Runway	6103	29,577	AC	1/1/2016
LNA	RW 10-28	Runway	6105	223,605	AC	6/1/2007
LNA	RW 16-34	Runway	6205	27,600	AAC	7/12/2013
LNA	RW 16-34	Runway	6215	315,000	AAC	7/12/2013
LNA	TW A	Taxiway	310	110,651	AC	6/1/2007
LNA	TW B	Taxiway	205	99,105	AC	1/1/1993

# Airport Pavement Evaluation Report

## Statewide Airfield Pavement Management Program

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface Type	Estimate of Last Construction Date
LNA	TW B	Taxiway	207	5,659	AAC	1/1/2016
LNA	TW B	Taxiway	210	11,820	AAC	7/12/2013
LNA	TW B1	Taxiway	215	3,442	AC	1/1/1993
LNA	TW B1	Taxiway	217	5,087	AAC	7/12/2013
LNA	TW B2	Taxiway	220	4,124	AC	1/1/1993
LNA	TW B2	Taxiway	223	5,529	AAC	7/12/2013
LNA	TW C	Taxiway	105	170,104	AC	7/12/2013
LNA	TW D	Taxiway	120	5,048	AAC	1/1/2016
LNA	TW D	Taxiway	125	9,691	AAC	7/12/2013
LNA	TW E	Taxiway	103	16,849	AC	1/1/2007
LNA	TW P	Taxiway	115	12,354	AC	6/1/2007
LNA	AP GA	Apron	4105	406,856	AC	6/1/2016
LNA	AP GA	Apron	4110	183,191	AC	1/1/1985
LNA	AP GA	Apron	4120	124,452	AAC	7/12/2013
LNA	AP GA	Apron	4125	136,401	AC	6/1/2016
LNA	AP GA	Apron	4130	35,084	AC	7/1/2021
LNA	AP GA	Apron	4135	3,206	PCC	7/1/2021
LNA	AP RU 10	Apron	4205	30,821	AC	7/12/2013
LNA	AP RU 16	Apron	4305	6,377	AC	1/1/1993

A photograph of a long, straight asphalt runway stretching towards the horizon under a bright blue sky filled with fluffy white clouds. The runway has a central white dashed line and side yellow lines. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

# **Chapter 4: Airfield Pavement Condition Analysis**

A close-up, low-angle view of the runway pavement, showing the texture of the asphalt and the white dashed center line. A series of yellow chevron markings are visible on the right side of the frame.A thick red diagonal bar running from the bottom left towards the top right, partially obscuring the runway image.

## Chapter 4 – Airfield Pavement Condition Analysis

The Pavement Condition Index (PCI) provides insight to possible causes of deterioration to help support pavement maintenance and rehabilitation planning. Distress type, severity, and extent are required in the computation of a PCI value. 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 81% of inspected pavements are in Good or Satisfactory condition and the remaining 19% of inspected pavements are in Fair condition.

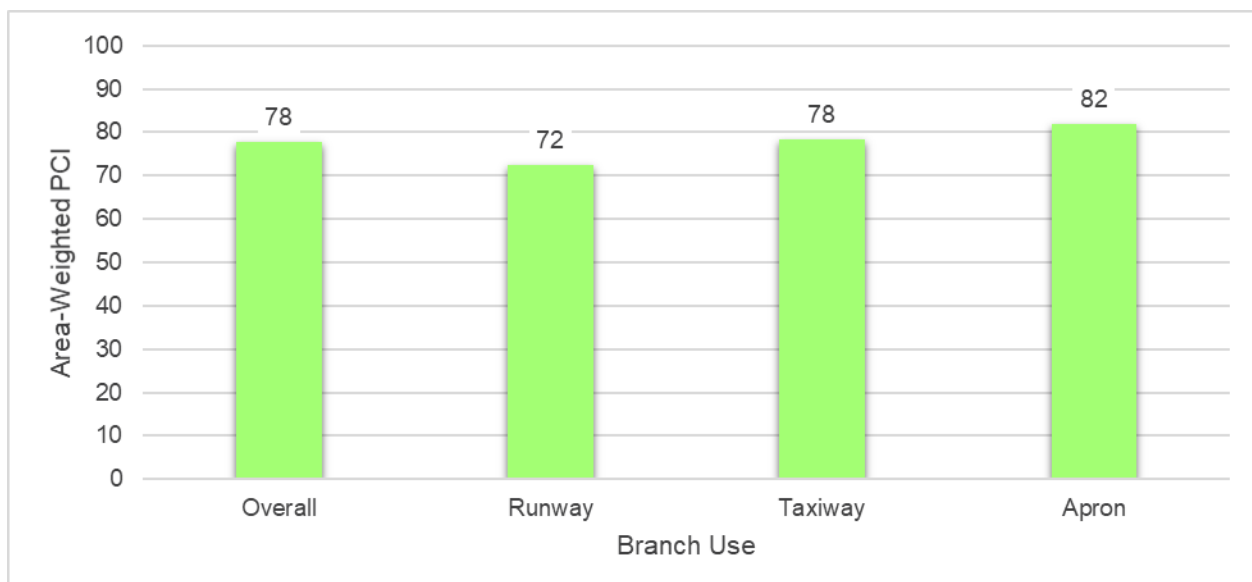
*Figure 4.1.1: Current Condition – Overall Network*



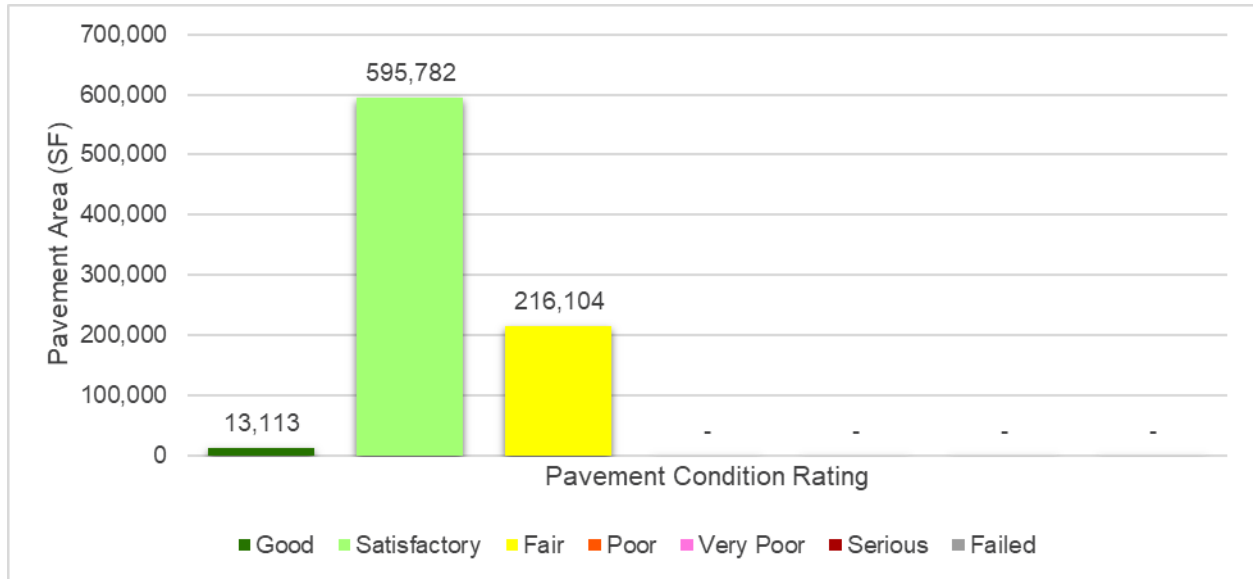
#### 4.1.2 Branch-Level Analysis

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

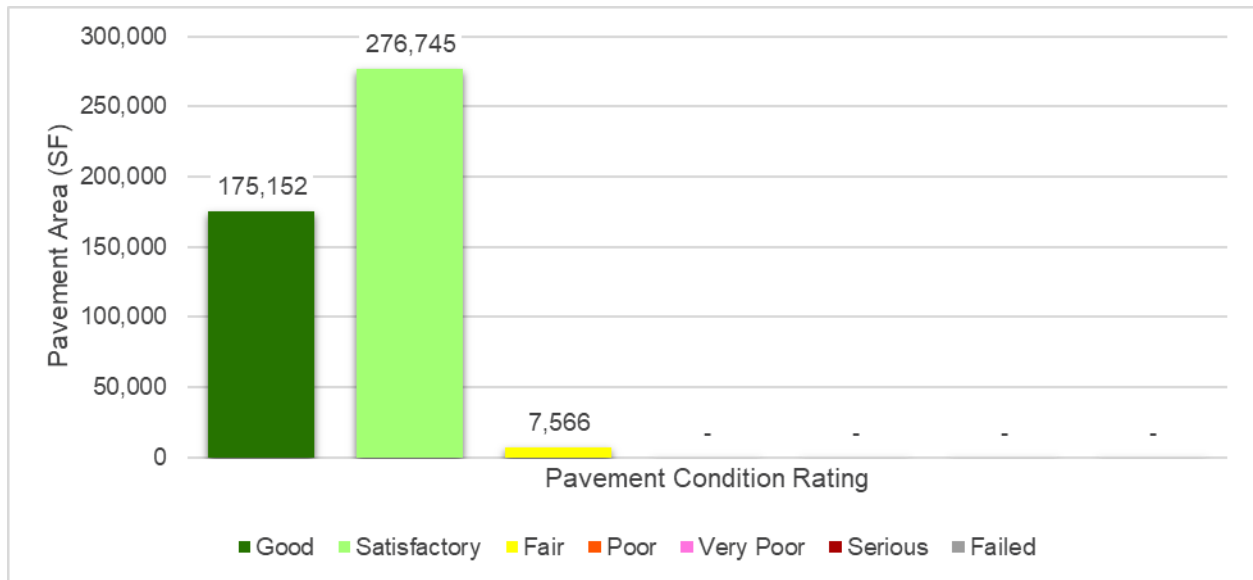
*Figure 4.1.2 (a): Current Condition Summary – Branch-Level*



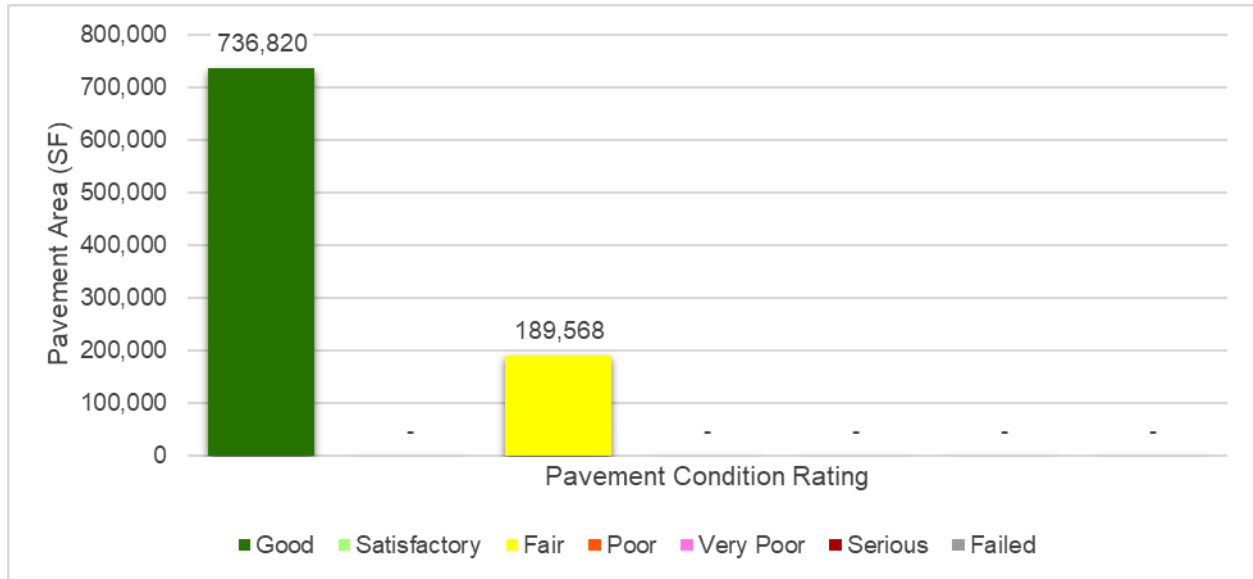
*Figure 4.1.2 (b): Current Condition – Runway*



*Figure 4.1.2 (c): Current Condition – Taxiway*



*Figure 4.1.2 (d): Current Condition – Apron*



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

*Table 4.1.2: Current Condition Summary – Branch-Level*

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Area-Weighted Avg PCI	Condition Rating
RW 4-22	Runway	2	229,217	68	Fair
RW 10-28	Runway	2	253,182	77	Satisfactory
RW 16-34	Runway	2	342,600	72	Satisfactory
TW A	Taxiway	1	110,651	74	Satisfactory
TW B	Taxiway	3	116,584	72	Satisfactory
TW B1	Taxiway	2	8,529	79	Satisfactory
TW B2	Taxiway	2	9,653	77	Satisfactory
TW C	Taxiway	1	170,104	86	Good
TW D	Taxiway	2	14,739	78	Satisfactory
TW E	Taxiway	1	16,849	76	Satisfactory
TW P	Taxiway	1	12,354	76	Satisfactory
AP GA	Apron	6	889,190	82	Satisfactory
AP RU 10	Apron	1	30,821	86	Good
AP RU 16	Apron	1	6,377	61	Fair

#### 4.1.3 Section-Level Analysis

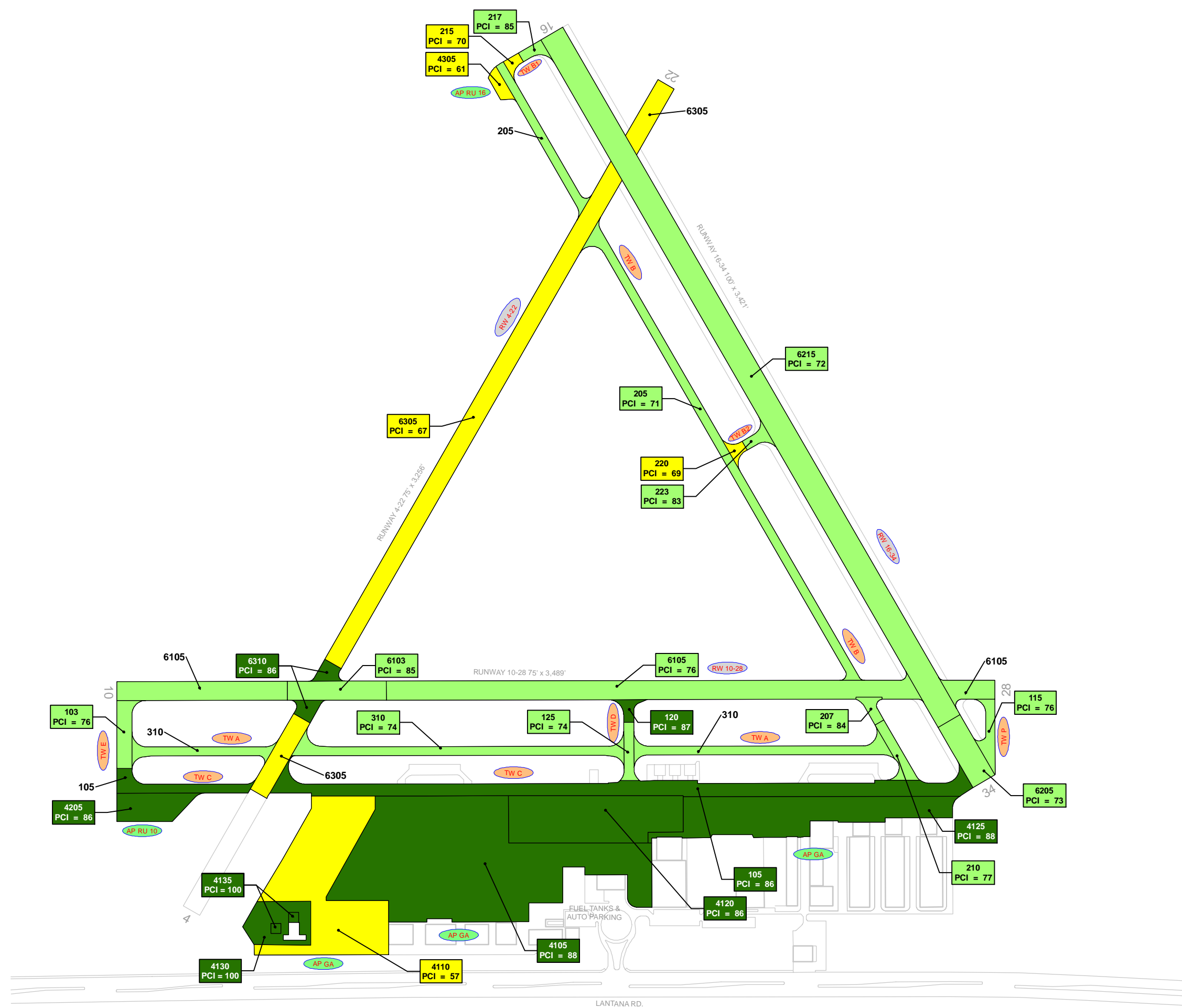
**Table 4.1.3** provides each pavement section's area-weighted average PCI and the percent of distress related to load, climate, and other factors. The causes of condition deterioration help inform maintenance, repair, and rehabilitation decisions. For example, load-related distress can indicate that 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
LNA	RW 4-22	Runway	6305	216,104	AC	67	Fair	75	0	25	14	58
LNA	RW 4-22	Runway	6310	13,113	AC	86	Good	100	0	0	1	2
LNA	RW 10-28	Runway	6103	29,577	AC	85	Satisfactory	100	0	0	2	7
LNA	RW 10-28	Runway	6105	223,605	AC	76	Satisfactory	100	0	0	12	58
LNA	RW 16-34	Runway	6205	27,600	AAC	73	Satisfactory	96	0	4	2	6
LNA	RW 16-34	Runway	6215	315,000	AAC	72	Satisfactory	96	0	4	13	63
LNA	TW A	Taxiway	310	110,651	AC	74	Satisfactory	100	0	0	3	30
LNA	TW B	Taxiway	205	99,105	AC	71	Satisfactory	100	0	0	3	27
LNA	TW B	Taxiway	207	5,659	AAC	84	Satisfactory	100	0	0	1	1
LNA	TW B	Taxiway	210	11,820	AAC	77	Satisfactory	100	0	0	1	3
LNA	TW B1	Taxiway	215	3,442	AC	70	Fair	100	0	0	1	1
LNA	TW B1	Taxiway	217	5,087	AAC	85	Satisfactory	100	0	0	1	1
LNA	TW B2	Taxiway	220	4,124	AC	69	Fair	100	0	0	1	1
LNA	TW B2	Taxiway	223	5,529	AAC	83	Satisfactory	100	0	0	1	1
LNA	TW C	Taxiway	105	170,104	AC	86	Good	100	0	0	4	34
LNA	TW D	Taxiway	120	5,048	AAC	87	Good	100	0	0	1	1
LNA	TW D	Taxiway	125	9,691	AAC	74	Satisfactory	68	0	32	1	3
LNA	TW E	Taxiway	103	16,849	AC	76	Satisfactory	100	0	0	1	3
LNA	TW P	Taxiway	115	12,354	AC	76	Satisfactory	79	0	21	1	3
LNA	AP GA	Apron	4105	406,856	AC	88	Good	100	0	0	8	78
LNA	AP GA	Apron	4110	183,191	AC	57	Fair	91	0	9	5	41
LNA	AP GA	Apron	4120	124,452	AAC	86	Good	86	0	14	3	25
LNA	AP GA	Apron	4125	136,401	AC	88	Good	100	0	0	3	28
LNA	AP GA	Apron	4130	35,084	AC	100	Good	0	0	0	0	0
LNA	AP GA	Apron	4135	3,206	PCC	100	Good	0	0	0	0	0
LNA	AP RU 10	Apron	4205	30,821	AC	86	Good	85	0	15	1	6
LNA	AP RU 16	Apron	4305	6,377	AC	61	Fair	97	0	3	1	1

\* 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**

TYPICAL RUNWAY BRANCH ID  
 TYPICAL TAXIWAY BRANCH ID  
 TYPICAL APRON BRANCH ID

**2022 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.

LANTANA RD.

## 4.2 Summary of Pavement Condition Evaluation Results

### 4.2.1 Network-Level Observations

The PCI assessment for Palm Beach County Park Airport (LNA) was performed in August 2022. The overall area-weighted average PCI value of the network was 78, representing a condition rating of Satisfactory. A portion of the GA Apron was not inspected due to recent construction in 2021.

Based on the FAA 5010 Report as of 10/06/22, the LNA Airport has reported 103,000 operations for 12 months ending 12/31/2018.

### 4.2.2 Branch-Level Observations

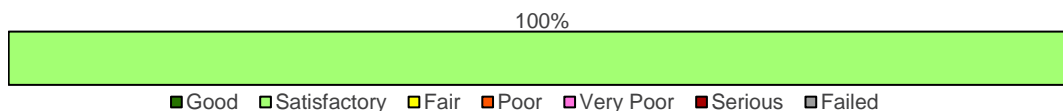
The following branch-level observations are a summary of select pavement facilities identified during the PCI assessment, including a discussion of general conditions and branch characteristics. The summary may not include all branches and/or sections within the Airport's airfield pavement network. Representative 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 10-28**

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
RW 10-28	RUNWAY	2	253,182	77	Satisfactory

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% Satisfactory (71-85 PCI).



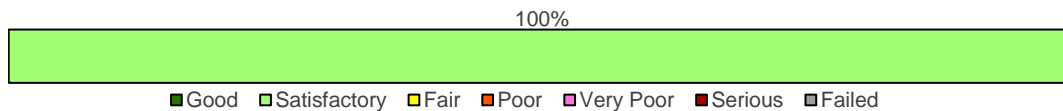
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
6103	AC	29,577	85	Satisfactory
6105	AC	223,605	76	Satisfactory

RW 10-28 consists of 2 flexible pavement sections, totaling 253,182 sf. The last major construction dates range from 2007 to 2016, resulting in an area-weighted average age at inspection of 14 years old. Overall, RW 10-28 is in Satisfactory condition with an area-weighted average PCI of 77.

### RW 16-34

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
RW 16-34	RUNWAY	2	342,600	72	Satisfactory

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% Satisfactory (71-85 PCI).



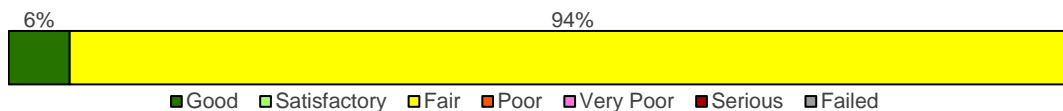
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
6205	AAC	27,600	73	Satisfactory
6215	AAC	315,000	72	Satisfactory

RW 16-34 consists of 2 flexible pavement sections, totaling 342,600 sf. The last major construction date for the branch was 2013, resulting in an area-weighted average age at inspection of 9 years old. Overall, RW 16-34 is in Satisfactory condition with an area-weighted average PCI of 72.

### RW 4-22

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
RW 4-22	RUNWAY	2	229,217	68	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), 94% Fair (56-70 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
6305	AC	216,104	67	Fair
6310	AC	13,113	86	Good

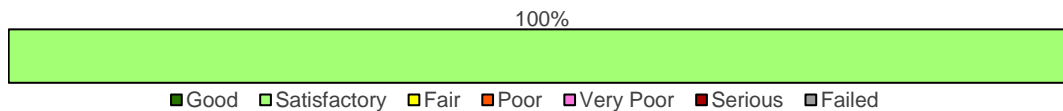
RW 4-22 consists of 2 flexible pavement sections, totaling 229,217 sf. The last major construction dates range from 1993 to 2016, resulting in an area-weighted average age at inspection of 28 years old. Overall, RW 4-22 is in Fair condition with an area-weighted average PCI of 68.

## **Taxiways**

### ***TW A***

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW A	TAXIWAY	1	110,651	74	Satisfactory

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% Satisfactory (71-85 PCI).



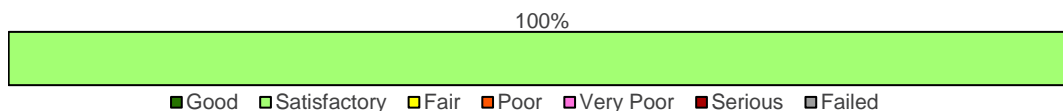
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
310	AC	110,651	74	Satisfactory

TW A consists of 1 flexible pavement section, totaling 110,651 sf. The last major construction date for the branch was 2007, resulting in an area-weighted average age at inspection of 15 years old. Overall, TW A is in Satisfactory condition with an area-weighted average PCI of 74.

### ***TW B***

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW B	TAXIWAY	3	116,584	72	Satisfactory

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% Satisfactory (71-85 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
205	AC	99,105	71	Satisfactory

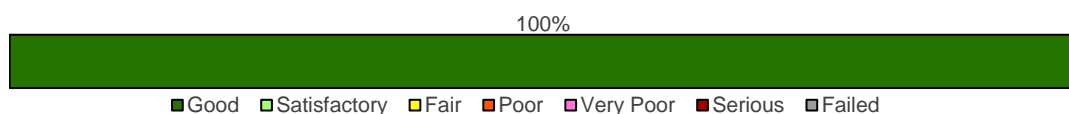
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
207	AAC	5,659	84	Satisfactory
210	AAC	11,820	77	Satisfactory

TW B consists of 3 flexible pavement sections, totaling 116,584 sf. The last major construction dates range from 1993 to 2016, resulting in an area-weighted average age at inspection of 26 years old. Overall, TW B is in Satisfactory condition with an area-weighted average PCI of 72.

### TW C

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW C	TAXIWAY	1	170,104	86	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).



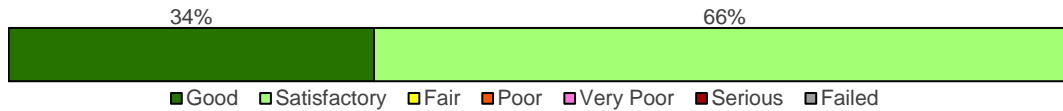
Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
105	AC	170,104	86	Good

TW C consists of 1 flexible pavement section, totaling 170,104 sf. The last major construction date for the branch was 2013, resulting in an area-weighted average age at inspection of 9 years old. Overall, TW C is in Good condition with an area-weighted average PCI of 86.

### TW D

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
TW D	TAXIWAY	2	14,739	78	Satisfactory

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: 34% Good (86-100 PCI), 66% Satisfactory (71-85 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
120	AAC	5,048	87	Good
125	AAC	9,691	74	Satisfactory

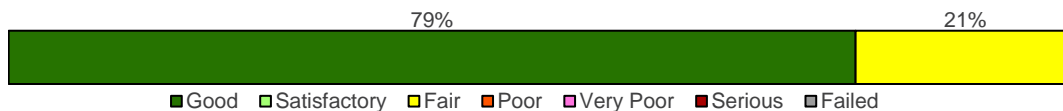
TW D consists of 2 flexible pavement sections, totaling 14,739 sf. The last major construction dates range from 2013 to 2016, resulting in an area-weighted average age at inspection of 8 years old. Overall, TW D is in Satisfactory condition with an area-weighted average PCI of 78.

## **Aprons**

### **AP GA**

Branch ID	Branch Use	Number of Sections	Branch Area (SF)	Branch Area-Weighted Avg PCI	Branch Condition Rating
AP GA	APRON	6	889,190	82	Satisfactory

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: 79% Good (86-100 PCI), 21% Fair (56-70 PCI).



Section ID	Surface Type	Section Area (SF)	PCI	Condition Rating
4105	AC	406,856	88	Good
4110	AC	183,191	57	Fair
4120	AAC	124,452	86	Good
4125	AC	136,401	88	Good
4130	AC	35,084	100	Good
4135	PCC	3,206	100	Good

AP GA consists of 5 flexible and 1 rigid pavement sections, totaling 889,190 sf. The last major construction dates range from 1985 to 2021, resulting in an area-weighted average age at inspection of 13 years old. Overall, AP GA is in Satisfactory condition with an area-weighted average PCI of 82.



# **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 play 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. As a reminder, 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.

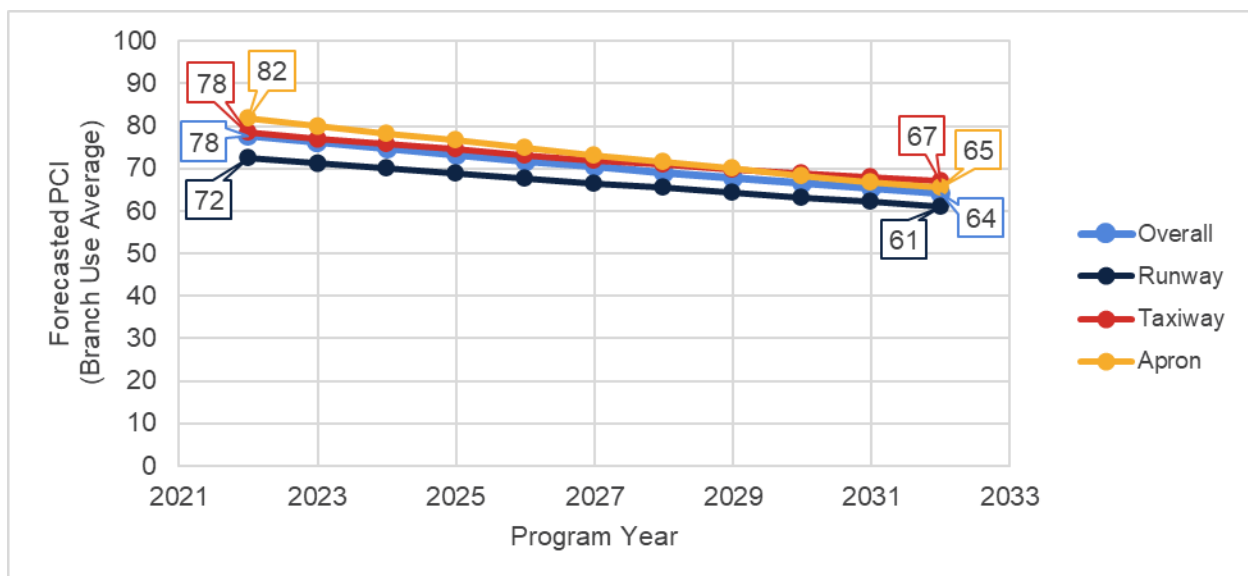
### 5.2.2 Performance Models

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 2023 through 2032.

*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.

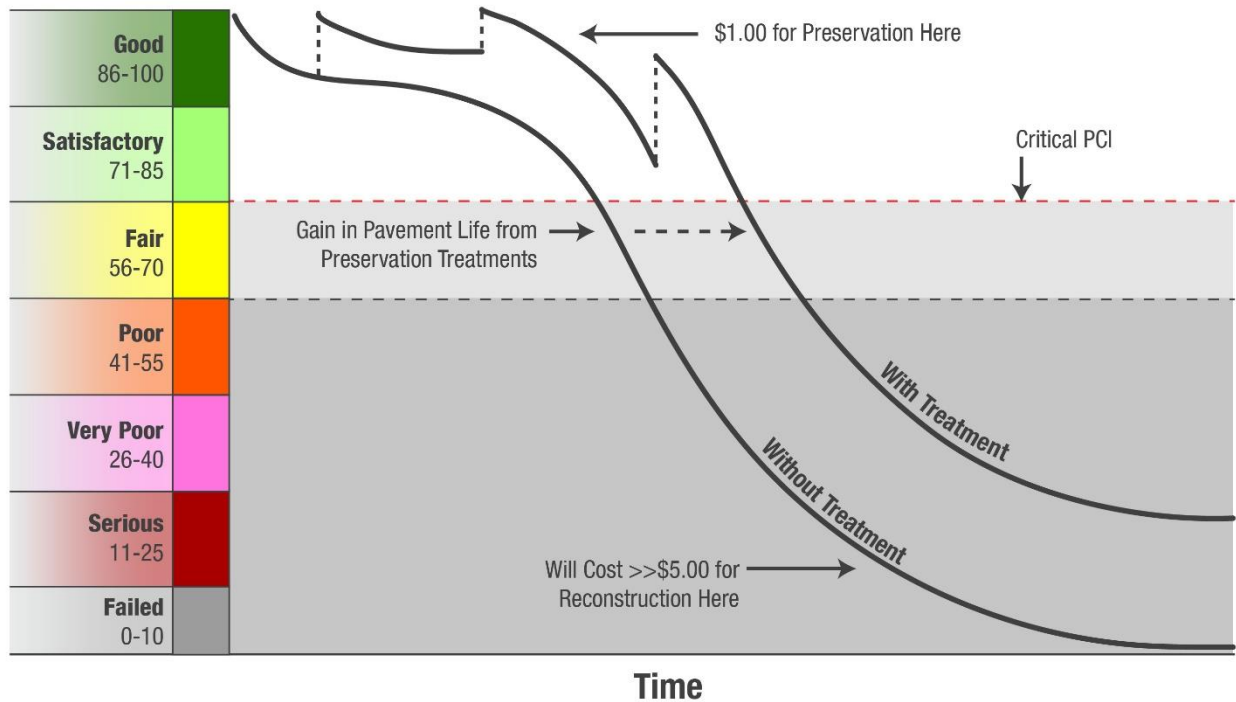
*Table 5.2.4: Forecasted PCI Values 2023-2032 – Section-Level*

Network ID	Branch ID	Section ID	Current PCI	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
LNA	RW 4-22	6305	67	67	66	66	65	65	64	64	63	62	62
LNA	RW 4-22	6310	86	84	82	81	79	78	76	75	74	73	72
LNA	RW 10-28	6103	85	83	82	80	78	77	76	75	74	73	72
LNA	RW 10-28	6105	76	75	74	73	72	71	70	70	69	68	68
LNA	RW 16-34	6205	73	71	70	68	66	64	63	61	59	58	56
LNA	RW 16-34	6215	72	70	69	67	65	63	62	60	58	57	55
LNA	TW A	310	74	73	72	71	70	69	68	67	66	65	64
LNA	TW B	205	71	70	69	68	67	66	66	65	64	63	63
LNA	TW B	207	84	82	81	79	77	76	74	73	71	70	69
LNA	TW B	210	77	76	74	73	71	70	69	68	67	66	65
LNA	TW B1	215	70	69	68	67	66	66	65	64	63	63	62
LNA	TW B1	217	85	83	81	80	78	76	75	74	72	71	70
LNA	TW B2	220	69	68	67	66	66	65	64	63	63	62	62
LNA	TW B2	223	83	81	80	78	76	75	73	72	71	70	68
LNA	TW C	105	86	84	83	81	79	78	77	75	74	73	72
LNA	TW D	120	87	85	83	81	80	78	76	75	74	72	71
LNA	TW D	125	74	73	71	70	69	68	67	66	65	64	63
LNA	TW E	103	76	75	74	72	71	70	69	68	67	66	66
LNA	TW P	115	76	75	74	72	71	70	69	68	67	66	66
LNA	AP GA	4105	88	86	84	82	80	78	76	75	73	71	70
LNA	AP GA	4110	57	56	56	55	54	54	53	53	52	52	51
LNA	AP GA	4120	86	84	82	80	77	75	73	71	69	66	64
LNA	AP GA	4125	88	86	84	82	80	78	76	75	73	71	70
LNA	AP GA	4130	100	96	94	91	89	87	85	83	81	79	77
LNA	AP GA	4135	100	98	97	95	94	93	92	91	90	88	87
LNA	AP RU 10	4205	86	84	82	80	78	76	75	73	71	70	68
LNA	AP RU 16	4305	61	60	59	58	57	57	56	55	55	54	54

### 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): Pavement Life and the Effect of Treatments



FAA Eligibility Thresholds:   >70: Routine Maintenance   55-70: Rehabilitation Eligible   <55: Reconstruction Eligible

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

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 System Updates, the critical PCI value was set to 65 for all functional uses. Now, 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 70 will be considered for Rehabilitation and sections less than 55 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 be defined at 70 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 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*

Runway	Taxiway	Apron
70	70	70

**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,  $PCI < \text{Critical } PCI$

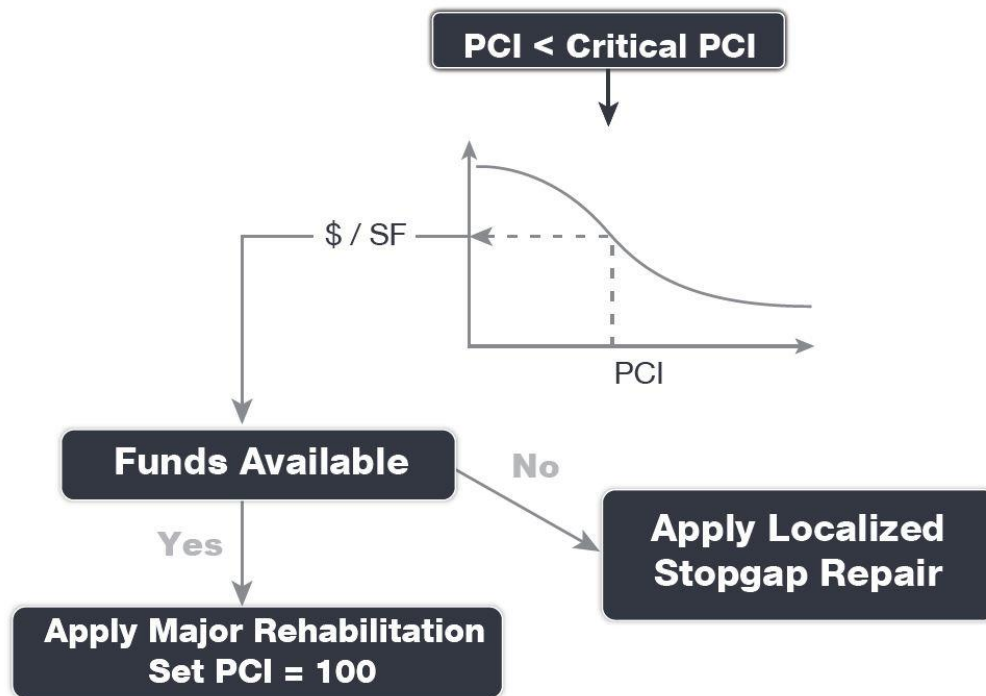
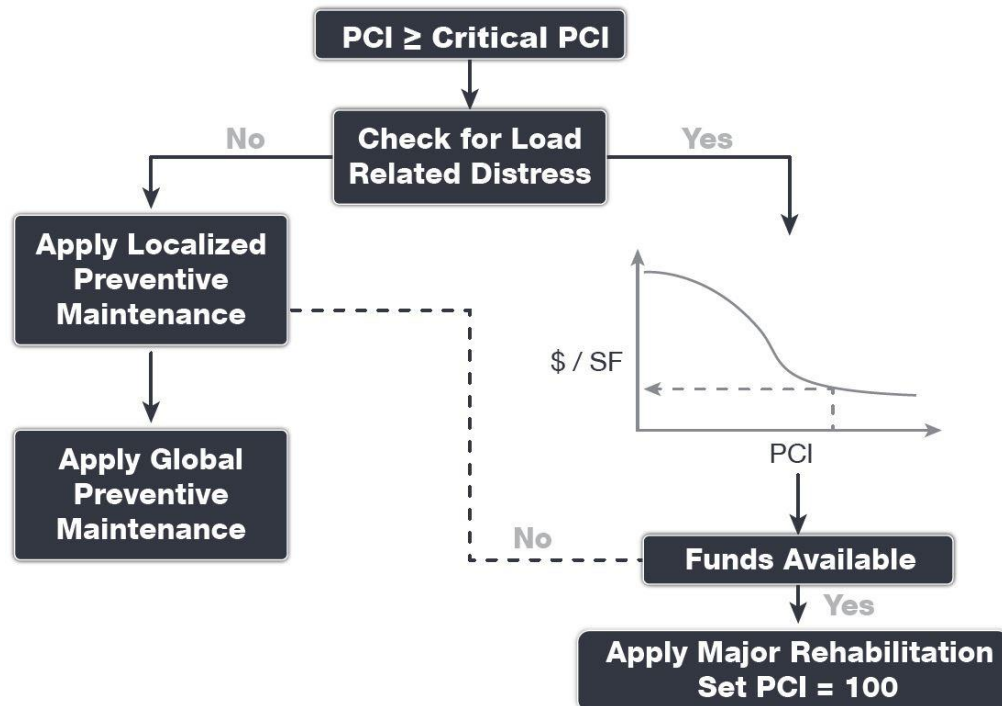


Figure 5.3 (c): Major Rehabilitation Planning Decision Diagram,  $PCI \geq \text{Critical } PCI$



## 5.4 Localized Maintenance and Repair

This section discusses both localized maintenance and major rehabilitation 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 (2) 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 (2) 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 the 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	Reliever Costs	Work Type Unit
AC Crack Sealing	\$ 4.00	LF
AC Full-Depth Patching	\$ 11.50	SF
AC Partial-Depth Patching	\$ 4.75	SF
Surface Seal	\$ 0.75	SF

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

Localized Work Type	Reliever Costs	Work Type Unit
Grinding	\$ 2.00	SF
PCC Crack Sealing	\$ 7.00	LF
PCC Joint Seal	\$ 4.25	LF
PCC Full-Depth Patching	\$ 65.00	SF
PCC Partial-Depth Patching	\$ 169.00	SF
PCC Slab Replacement	\$ 51.50	SF

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

### 5.4.4 Localized Maintenance and Repair Policy

**Table 5.4.4** and **Table 5.4.5** depicts the Localized Preventive Maintenance Policy and the Localized Stopgap Maintenance Policy for AC and PCC pavements. The resulting Localized Maintenance recommendations for this program are identified based on this policy.

*Table 5.4.4: AC Pavement Localized Preventive & Stopgap Maintenance & Repair Policy*

Distress	Severity	Description	AC Preventive Work Type	AC Stopgap Work Type
41	Low	Alligator Cracking	Monitor Pavement	Monitor Pavement
41	Medium	Alligator Cracking	AC Full Depth Patching	AC Full Depth Patching
41	High	Alligator Cracking	AC Full Depth Patching	AC Full Depth Patching
42	N/A	Bleeding	Monitor Pavement	Monitor Pavement
43	Low	Block Cracking	Monitor Pavement	Monitor Pavement
43	Medium	Block Cracking	AC Crack Sealing	Monitor Pavement
43	High	Block Cracking	AC Crack Sealing	AC Crack Sealing
44	Low	Corrugation	Monitor Pavement	Monitor Pavement
44	Medium	Corrugation	AC Full Depth Patching	Monitor Pavement
44	High	Corrugation	AC Full Depth Patching	AC Full Depth Patching
45	Low	Depression	Monitor Pavement	Monitor Pavement
45	Medium	Depression	AC Full Depth Patching	Monitor Pavement
45	High	Depression	AC Full Depth Patching	AC Full Depth Patching
46	N/A	Jet Blast	Monitor Pavement	Monitor Pavement
47	Low	Jt. Reflective Cracking	Monitor Pavement	Monitor Pavement
47	Medium	Jt. Reflective Cracking	AC Crack Sealing	Monitor Pavement
47	High	Jt. Reflective Cracking	AC Full Depth Patching	AC Full Depth Patching
48	Low	L&T Cracking	Monitor Pavement	Monitor Pavement
48	Medium	L&T Cracking	AC Crack Sealing	Monitor Pavement
48	High	L&T Cracking	AC Full Depth Patching	AC Full Depth Patching
49	N/A	Oil Spillage	Monitor Pavement	Monitor Pavement
50	Low	Patching	Monitor Pavement	Monitor Pavement
50	Medium	Patching	AC Full Depth Patching	Monitor Pavement
50	High	Patching	AC Full Depth Patching	AC Full Depth Patching
51	N/A	Polished Aggregate	Monitor Pavement	Monitor Pavement
52	Low	Raveling	Surface Seal	Monitor Pavement
52	Medium	Raveling	Surface Seal	Monitor Pavement
52	High	Raveling	AC Partial Depth Patching	AC Partial Depth Patching
53	Low	Rutting	Monitor Pavement	Monitor Pavement
53	Medium	Rutting	AC Full Depth Patching	Monitor Pavement
53	High	Rutting	AC Full Depth Patching	AC Full Depth Patching
54	Low	Shoving	Monitor Pavement	Monitor Pavement
54	Medium	Shoving	AC Partial Depth Patching	Monitor Pavement
54	High	Shoving	AC Full Depth Patching	AC Full Depth Patching
55	N/A	Slippage Cracking	AC Full Depth Patching	AC Full Depth Patching
56	Low	Swelling	Monitor Pavement	Monitor Pavement
56	Medium	Swelling	AC Full Depth Patching	Monitor Pavement
56	High	Swelling	AC Full Depth Patching	AC Full Depth Patching

Distress	Severity	Description	AC Preventive Work Type	AC Stopgap Work Type
57	Low	Weathering	Monitor Pavement	Monitor Pavement
57	Medium	Weathering	Surface Seal	Monitor Pavement
57	High	Weathering	AC Partial Depth Patching	Surface Seal

*Table 5.4.5: PCC Pavement Localized Preventive & Stopgap Maintenance & Repair Policy*

Distress	Severity	Description	PCC Preventive Work Type	PCC Stopgap Work Type
61	Low	Blow-up	PCC Full Depth Patching	Monitor Pavement
61	Medium	Blow-up	PCC Full Depth Patching	PCC Full Depth Patching
61	High	Blow-up	PCC Slab Replacement	PCC Slab Replacement
62	Low	Corner Break	Monitor Pavement	Monitor Pavement
62	Medium	Corner Break	PCC Full Depth Patching	PCC Full Depth Patching
62	High	Corner Break	PCC Full Depth Patching	PCC Full Depth Patching
63	Low	Linear Cracking	Monitor Pavement	Monitor Pavement
63	Medium	Linear Cracking	PCC Crack Sealing	PCC Crack Sealing
63	High	Linear Cracking	PCC Full Depth Patching	PCC Crack Sealing
64	Low	Durability Cracking	Monitor Pavement	Monitor Pavement
64	Medium	Durability Cracking	PCC Full Depth Patching	PCC Full Depth Patching
64	High	Durability Cracking	PCC Slab Replacement	PCC Slab Replacement
65	Low	Jt. Seal Damage	PCC Joint Seal	Monitor Pavement
65	Medium	Jt. Seal Damage	PCC Joint Seal	Monitor Pavement
65	High	Jt. Seal Damage	PCC Joint Seal	PCC Joint Seal
66	Low	Small Patch	Monitor Pavement	Monitor Pavement
66	Medium	Small Patch	PCC Partial Depth Patching	Monitor Pavement
66	High	Small Patch	PCC Partial Depth Patching	PCC Partial Depth Patching
67	Low	Large Patch	Monitor Pavement	Monitor Pavement
67	Medium	Large Patch	PCC Full Depth Patching	Monitor Pavement
67	High	Large Patch	PCC Full Depth Patching	PCC Full Depth Patching
68	N/A	Popouts	Monitor Pavement	Monitor Pavement
69	N/A	Pumping	Monitor Pavement	Monitor Pavement
70	Low	Scaling	Monitor Pavement	Monitor Pavement
70	Medium	Scaling	PCC Slab Replacement	Monitor Pavement
70	High	Scaling	PCC Slab Replacement	PCC Slab Replacement
71	Low	Faulting	Monitor Pavement	Monitor Pavement
71	Medium	Faulting	Grinding	Monitor Pavement
71	High	Faulting	PCC Slab Replacement	PCC Slab Replacement
72	Low	Shattered Slab	PCC Crack Sealing	Monitor Pavement
72	Medium	Shattered Slab	PCC Slab Replacement	PCC Crack Sealing
72	High	Shattered Slab	PCC Slab Replacement	PCC Slab Replacement
73	N/A	Shrinkage Cracking	Monitor Pavement	Monitor Pavement

Distress	Severity	Description	PCC Preventive Work Type	PCC Stopgap Work Type
74	Low	Joint Spall	Monitor Pavement	Monitor Pavement
74	Medium	Joint Spall	PCC Partial Depth Patching	PCC Partial Depth Patching
74	High	Joint Spall	PCC Partial Depth Patching	PCC Partial Depth Patching
75	Low	Corner Spall	Monitor Pavement	Monitor Pavement
75	Medium	Corner Spall	PCC Partial Depth Patching	PCC Partial Depth Patching
75	High	Corner Spall	PCC Partial Depth Patching	PCC Partial Depth Patching
76	Low	ASR	Monitor Pavement	Monitor Pavement
76	Medium	ASR	PCC Slab Replacement	PCC Slab Replacement
76	High	ASR	PCC Slab Replacement	PCC Slab Replacement

## 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 (2) 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 Reliever 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	Reliever Pavement Section
<b>AC Reconstruction</b>	
<i>Full-depth asphalt pavement section reconstruction. Removal of existing pavement section and construction of a new section.</i>  <b>PCI &lt;55</b>	Pavement Removal
	Unclassified Excavation
	Subgrade Stabilization (12")
	Limerock Base Course (8")
	Prime Coat
	Tack Coat
	P-401 Surface Course (4")
	<i>Excludes any paved shoulder features</i>
<b>AC Rehabilitation</b>	
<i>Combination of asphalt pavement milling and replacement overlay with 15% of the areas subject to full-depth reconstruction.</i>  <b>PCI = 55 to 70</b>	<b>15% AC Reconstruction</b>
	<b>Mill and Overlay</b>
	AC Milling (3")
	Tack Coat
	P-401 Surface Course (3")
	<i>Excludes any paved shoulder features</i>
<b>PCC Reconstruction</b>	
<i>Full-depth rigid pavement section reconstruction.</i>  <b>PCI &lt; 55</b>	Pavement Removal
	Unclassified Excavation
	Subgrade Stabilization (12")
	Limerock Base Course (6")
	P-501 PCC Pavement (14")
	PCC Joint Seal
<b>PCC Rehabilitation</b>	
<i>Rehabilitation of PCC pavement with a combination of crack sealing, joint seal replacement, limited patching, and replacement of 15% of slab panels.</i>  <b>PCI = 55 to 70</b>	<b>15% Slab Replacement</b>
	<b>Joint and Crack Seal</b>
	<b>Limited Patching</b>

*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 15% 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 between 55 and 70. 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 15% 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 between 55 and 70.


#### **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.

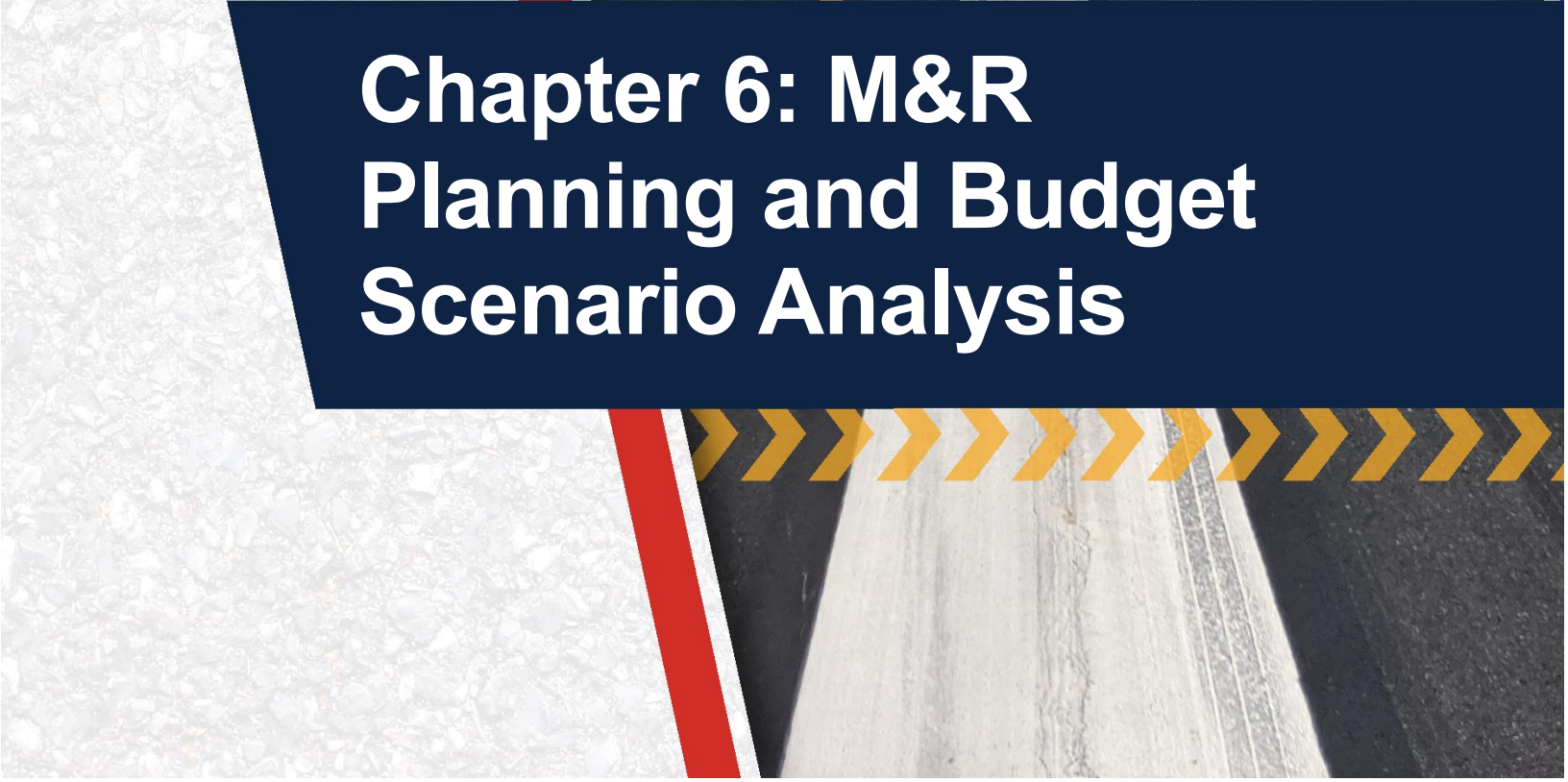
Neither the FDOT nor the Consultant team have control over the cost of labor, materials, equipment, Contractor's methods of determining prices, or over competitive bidding or market conditions. Opinions of probable construction costs provided herein are based on the information known to the FDOT at this 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: RL 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 70	\$10.50	\$22.50
Reconstruction	0 to 55	\$18.50	\$45.00



# **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	\$ 214,690
Stopgap	\$ -
<b>Planning-Level Localized M&amp;R Needs =</b>	<b>\$ 214,690</b>

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	AC Crack Sealing	2,846	LF	\$ 11,390
	Surface Seal	270,879	SF	\$ 203,300

**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
LNA	RW 4-22	6305	216,104	67	67	\$ -
LNA	RW 4-22	6310	13,113	86	90	\$ 500
LNA	RW 10-28	6103	29,577	85	92	\$ 1,570
LNA	RW 10-28	6105	223,605	76	88	\$ 33,540
LNA	RW 16-34	6205	27,600	73	85	\$ 3,420
LNA	RW 16-34	6215	315,000	72	81	\$ 76,120
LNA	TW A	310	110,651	74	87	\$ 16,920
LNA	TW B	205	99,105	71	89	\$ 59,470
LNA	TW B	207	5,659	84	88	\$ 220
LNA	TW B	210	11,820	77	82	\$ 1,340
LNA	TW B1	215	3,442	70	70	\$ -
LNA	TW B1	217	5,087	85	90	\$ 390
LNA	TW B2	220	4,124	69	69	\$ -
LNA	TW B2	223	5,529	83	88	\$ 630
LNA	TW C	105	170,104	86	89	\$ 7,600
LNA	TW D	120	5,048	87	90	\$ 190
LNA	TW D	125	9,691	74	79	\$ 1,090
LNA	TW E	103	16,849	76	87	\$ 2,530
LNA	TW P	115	12,354	76	85	\$ 930
LNA	AP GA	4105	406,856	88	90	\$ 3,670
LNA	AP GA	4110	183,191	57	57	\$ -
LNA	AP GA	4120	124,452	86	88	\$ 1,900
LNA	AP GA	4125	136,401	88	90	\$ 1,460
LNA	AP GA	4130	35,084	100	100	\$ -
LNA	AP GA	4135	3,206	100	100	\$ -
LNA	AP RU 10	4205	30,821	86	89	\$ 1,160
LNA	AP RU 16	4305	6,377	61	61	\$ -

## 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.

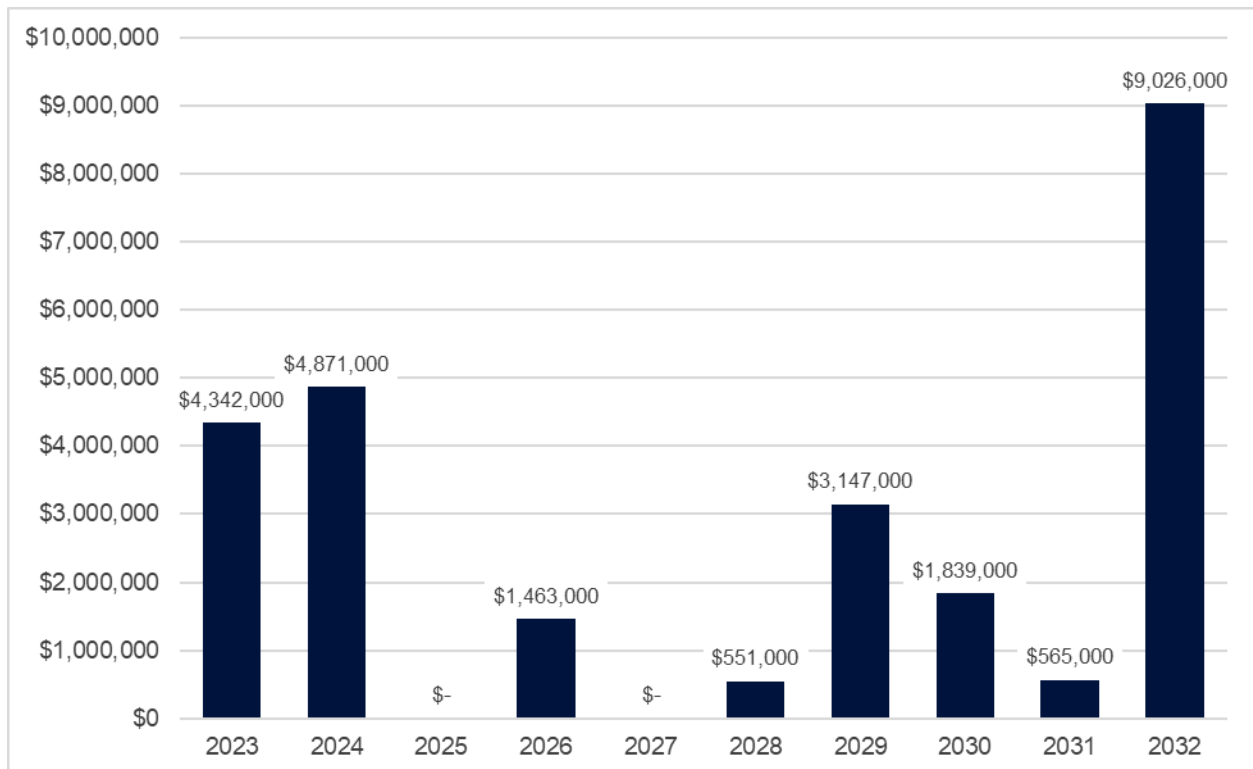
*Table 6.2.1 (a): Section-Level 10-Year Major Rehabilitation Needs*

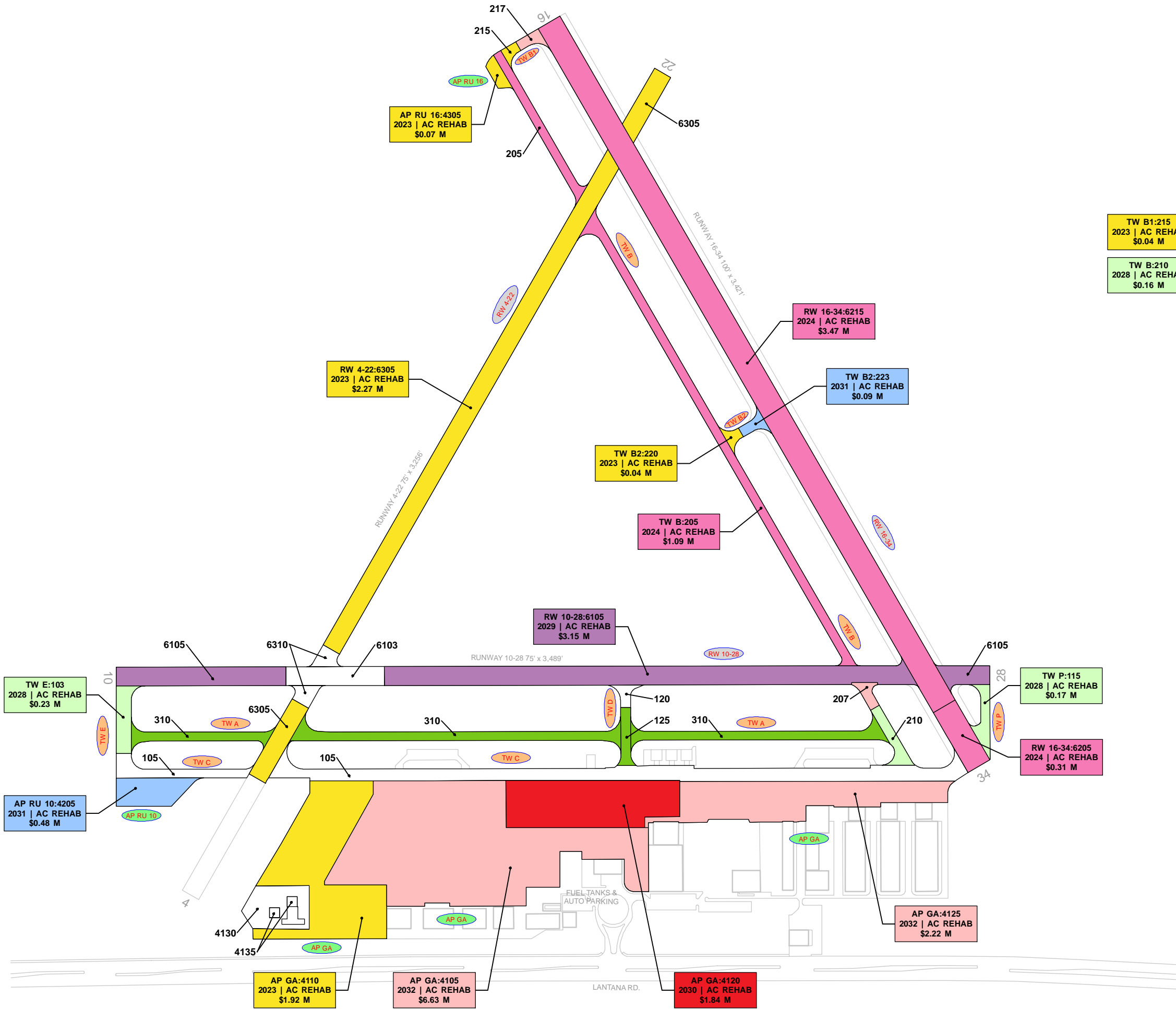
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2023	LNA	RW 4-22	6305	AC	216,104	67	AC Rehabilitation	\$ 2,270,000
2023	LNA	TW B1	215	AC	3,442	69	AC Rehabilitation	\$ 37,000
2023	LNA	TW B2	220	AC	4,124	68	AC Rehabilitation	\$ 44,000
2023	LNA	AP GA	4110	AC	183,191	56	AC Rehabilitation	\$ 1,924,000
2023	LNA	AP RU 16	4305	AC	6,377	60	AC Rehabilitation	\$ 67,000

Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2024	LNA	RW 16-34	6205	AAC	27,600	70	AC Rehabilitation	\$ 305,000
2024	LNA	RW 16-34	6215	AAC	315,000	69	AC Rehabilitation	\$ 3,473,000
2024	LNA	TW B	205	AC	99,105	69	AC Rehabilitation	\$ 1,093,000
2026	LNA	TW A	310	AC	110,651	70	AC Rehabilitation	\$ 1,345,000
2026	LNA	TW D	125	AAC	9,691	69	AC Rehabilitation	\$ 118,000
2028	LNA	TW B	210	AAC	11,820	69	AC Rehabilitation	\$ 159,000
2028	LNA	TW E	103	AC	16,849	69	AC Rehabilitation	\$ 226,000
2028	LNA	TW P	115	AC	12,354	69	AC Rehabilitation	\$ 166,000
2029	LNA	RW 10-28	6105	AC	223,605	70	AC Rehabilitation	\$ 3,147,000
2030	LNA	AP GA	4120	AAC	124,452	69	AC Rehabilitation	\$ 1,839,000
2031	LNA	TW B2	223	AAC	5,529	70	AC Rehabilitation	\$ 86,000
2031	LNA	AP RU 10	4205	AC	30,821	70	AC Rehabilitation	\$ 479,000
2032	LNA	TW B	207	AAC	5,659	69	AC Rehabilitation	\$ 93,000
2032	LNA	TW B1	217	AAC	5,087	70	AC Rehabilitation	\$ 83,000
2032	LNA	AP GA	4105	AC	406,856	70	AC Rehabilitation	\$ 6,628,000
2032	LNA	AP GA	4125	AC	136,401	70	AC Rehabilitation	\$ 2,222,000

**Figure 6.2.1 (a)** summarizes the section-level major rehabilitation needs for a 10-year period between 2023 and 2032. **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**

— TYPICAL RUNWAY BRANCH ID

— TYPICAL TAXIWAY BRANCH ID

— TYPICAL APRON BRANCH ID

**PROGRAM YEAR**

2023	2028
2024	2029
2025	2030
2026	2031
2027	2032

"BRANCH," "SECTION"  
"YEAR," "REHAB ACTIVITY"  
"EST. COST"

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



# 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 D5340-20 (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 2023-2032. 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 D5340-20. 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 D5340-20 (referenced in **Appendix E**), with results being analyzed using PAVERTM software to determine PCI values. The PCI values are identified in the Exhibit and graphically represented using the standard ASTM D5340-20 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 2 2021-2023 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 D5340-20.

## 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 D5340-20, 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.

A photograph of a long, straight airfield runway stretching towards the horizon under a bright blue sky with scattered white clouds. The runway has a central white dashed line and yellow edge lines. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

# **Appendix A: Airfield Pavement Analysis**

A close-up, low-angle view of the runway pavement, showing a white dashed line and yellow chevron markings. The image is framed by a red diagonal bar on the left and a blue diagonal bar on the right.

*Table A.1: Pavement System Inventory Details*

Network ID	Branch ID	Branch Use	Section ID	Area (SF)	Surface Type	Estimate of Last Construction Date
LNA	RW 4-22	Runway	6305	216,104	AC	1/1/1993
LNA	RW 4-22	Runway	6310	13,113	AC	1/1/2016
LNA	RW 10-28	Runway	6103	29,577	AC	1/1/2016
LNA	RW 10-28	Runway	6105	223,605	AC	6/1/2007
LNA	RW 16-34	Runway	6205	27,600	AAC	7/12/2013
LNA	RW 16-34	Runway	6215	315,000	AAC	7/12/2013
LNA	TW A	Taxiway	310	110,651	AC	6/1/2007
LNA	TW B	Taxiway	205	99,105	AC	1/1/1993
LNA	TW B	Taxiway	207	5,659	AAC	1/1/2016
LNA	TW B	Taxiway	210	11,820	AAC	7/12/2013
LNA	TW B1	Taxiway	215	3,442	AC	1/1/1993
LNA	TW B1	Taxiway	217	5,087	AAC	7/12/2013
LNA	TW B2	Taxiway	220	4,124	AC	1/1/1993
LNA	TW B2	Taxiway	223	5,529	AAC	7/12/2013
LNA	TW C	Taxiway	105	170,104	AC	7/12/2013
LNA	TW D	Taxiway	120	5,048	AAC	1/1/2016
LNA	TW D	Taxiway	125	9,691	AAC	7/12/2013
LNA	TW E	Taxiway	103	16,849	AC	1/1/2007
LNA	TW P	Taxiway	115	12,354	AC	6/1/2007
LNA	AP GA	Apron	4105	406,856	AC	6/1/2016
LNA	AP GA	Apron	4110	183,191	AC	1/1/1985
LNA	AP GA	Apron	4120	124,452	AAC	7/12/2013
LNA	AP GA	Apron	4125	136,401	AC	6/1/2016
LNA	AP GA	Apron	4130	35,084	AC	7/1/2021
LNA	AP GA	Apron	4135	3,206	PCC	7/1/2021
LNA	AP RU 10	Apron	4205	30,821	AC	7/12/2013
LNA	AP RU 16	Apron	4305	6,377	AC	1/1/1993

*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
LNA	RW 4-22	Runway	6305	216,104	67	Fair
LNA	RW 4-22	Runway	6310	13,113	86	Good
LNA	RW 10-28	Runway	6103	29,577	85	Satisfactory
LNA	RW 10-28	Runway	6105	223,605	76	Satisfactory
LNA	RW 16-34	Runway	6205	27,600	73	Satisfactory
LNA	RW 16-34	Runway	6215	315,000	72	Satisfactory
LNA	TW A	Taxiway	310	110,651	74	Satisfactory
LNA	TW B	Taxiway	205	99,105	71	Satisfactory
LNA	TW B	Taxiway	207	5,659	84	Satisfactory
LNA	TW B	Taxiway	210	11,820	77	Satisfactory
LNA	TW B1	Taxiway	215	3,442	70	Fair
LNA	TW B1	Taxiway	217	5,087	85	Satisfactory
LNA	TW B2	Taxiway	220	4,124	69	Fair
LNA	TW B2	Taxiway	223	5,529	83	Satisfactory
LNA	TW C	Taxiway	105	170,104	86	Good
LNA	TW D	Taxiway	120	5,048	87	Good
LNA	TW D	Taxiway	125	9,691	74	Satisfactory
LNA	TW E	Taxiway	103	16,849	76	Satisfactory
LNA	TW P	Taxiway	115	12,354	76	Satisfactory
LNA	AP GA	Apron	4105	406,856	88	Good
LNA	AP GA	Apron	4110	183,191	57	Fair
LNA	AP GA	Apron	4120	124,452	86	Good
LNA	AP GA	Apron	4125	136,401	88	Good
LNA	AP GA	Apron	4130	35,084	100	Good
LNA	AP GA	Apron	4135	3,206	100	Good
LNA	AP RU 10	Apron	4205	30,821	86	Good
LNA	AP RU 16	Apron	4305	6,377	61	Fair

*Table A.3: Forecasted PCI Values 2023-2032 – Section-Level*

Network ID	Branch ID	Section ID	Current PCI	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
LNA	RW 4-22	6305	67	67	66	66	65	65	64	64	63	62	62
LNA	RW 4-22	6310	86	84	82	81	79	78	76	75	74	73	72
LNA	RW 10-28	6103	85	83	82	80	78	77	76	75	74	73	72
LNA	RW 10-28	6105	76	75	74	73	72	71	70	70	69	68	68
LNA	RW 16-34	6205	73	71	70	68	66	64	63	61	59	58	56
LNA	RW 16-34	6215	72	70	69	67	65	63	62	60	58	57	55
LNA	TW A	310	74	73	72	71	70	69	68	67	66	65	64
LNA	TW B	205	71	70	69	68	67	66	66	65	64	63	63
LNA	TW B	207	84	82	81	79	77	76	74	73	71	70	69
LNA	TW B	210	77	76	74	73	71	70	69	68	67	66	65
LNA	TW B1	215	70	69	68	67	66	66	65	64	63	63	62
LNA	TW B1	217	85	83	81	80	78	76	75	74	72	71	70
LNA	TW B2	220	69	68	67	66	66	65	64	63	63	62	62
LNA	TW B2	223	83	81	80	78	76	75	73	72	71	70	68
LNA	TW C	105	86	84	83	81	79	78	77	75	74	73	72
LNA	TW D	120	87	85	83	81	80	78	76	75	74	72	71
LNA	TW D	125	74	73	71	70	69	68	67	66	65	64	63
LNA	TW E	103	76	75	74	72	71	70	69	68	67	66	66
LNA	TW P	115	76	75	74	72	71	70	69	68	67	66	66
LNA	AP GA	4105	88	86	84	82	80	78	76	75	73	71	70
LNA	AP GA	4110	57	56	56	55	54	54	53	53	52	52	51
LNA	AP GA	4120	86	84	82	80	77	75	73	71	69	66	64
LNA	AP GA	4125	88	86	84	82	80	78	76	75	73	71	70
LNA	AP GA	4130	100	96	94	91	89	87	85	83	81	79	77
LNA	AP GA	4135	100	98	97	95	94	93	92	91	90	88	87
LNA	AP RU 10	4205	86	84	82	80	78	76	75	73	71	70	68
LNA	AP RU 16	4305	61	60	59	58	57	57	56	55	55	54	54

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## Work History Report

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Pavement Database: FDOT

Network: PALM BEACH COU Branch: AP GA GA APRON Section: 4105 Surface: AC  
 L.C.D. 6/1/2016 Use: APRON Rank: P Length: 500.00 (Ft) Width: 1180.00 (Ft) True Area: 406856.0001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/1/2016	CR-AC	Complete Reconstruction - AC	2,034,280.00	0.00	<input checked="" type="checkbox"/>	2" P-403, 6" P-211, 4" P-154, P-152
1/1/1985	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1985: 2" P-401 ON 6" P-211

Network: PALM BEACH COU Branch: AP GA GA APRON Section: 4110 Surface: AC  
 L.C.D. 1/1/1985 Use: APRON Rank: P Length: 630.00 (Ft) Width: 522.00 (Ft) True Area: 183191.0000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1985	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1985: 2" P-401 ON 6" P-211

Network: PALM BEACH COU Branch: AP GA GA APRON Section: 4120 Surface: AAC  
 L.C.D. 7/12/2013 Use: APRON Rank: P Length: 188.00 (Ft) Width: 694.00 (Ft) True Area: 124452.0000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/12/2013	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	1" MILL AND 2" P-401 OVERLAY
1/1/1985	OL-AS	Overlay - AC Structural	0.00	0.00	<input checked="" type="checkbox"/>	1985: 1.5" P-401 OVERLAY
1/1/1965	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1965: 1.5" P-401 ON 8" P-211

Network: PALM BEACH COU Branch: AP GA GA APRON Section: 4125 Surface: AC  
 L.C.D. 6/1/2016 Use: APRON Rank: P Length: 1,240.00 (Ft) Width: 163.00 (Ft) True Area: 136401.0000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/1/2016	CR-AC	Complete Reconstruction - AC	689,530.00	0.00	<input checked="" type="checkbox"/>	2" P-403, 6" P-211, 4" P-154, P-152
1/1/1985	IMPORT ED	OVERLAY	0.00	1.50	<input checked="" type="checkbox"/>	1985: 1.5" P-401 OVERLAY
1/1/1965	IMPORT ED	BUILT	0.00	1.50	<input checked="" type="checkbox"/>	1965: 1.5" P-401 ON 8" P-211

Network: PALM BEACH COU Branch: AP GA GA APRON Section: 4130 Surface: AC  
 L.C.D. 7/1/2021 Use: APRON Rank: P Length: 174.00 (Ft) Width: 270.00 (Ft) True Area: 35084.00001 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/1/2021	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	2" P-403, 6" P-211, 4" P-154, P-152
1/1/1985	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1985: 2" P-401 ON 6" P-211

Network: PALM BEACH COU Branch: AP GA GA APRON Section: 4135 Surface: PCC  
 L.C.D. 7/1/2021 Use: APRON Rank: P Length: 80.00 (Ft) Width: 40.00 (Ft) True Area: 3206.000000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/1/2021	CR-PC	Complete Reconstruction - PCC	0.00	0.00	<input checked="" type="checkbox"/>	5" P-610, 12" COMPACTED SUBGR
1/1/1985	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1985: 2" P-401 ON 6" P-211

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Pavement Database: FDOT

Network: PALM BEACH COU		Branch: AP RU 10	RUN-UP APRON		Section: 4205	Surface: AC
L.C.D. 7/12/2013	Use: APRON	Rank: P	Length: 300.00 (Ft)	Width: 100.00 (Ft)	True Area: 30821.00000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/12/2013	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	

Network: PALM BEACH COU		Branch: AP RU 16	RUN-UP APRON		Section: 4305	Surface: AC
L.C.D. 1/1/1993	Use: APRON	Rank: P	Length: 130.00 (Ft)	Width: 50.00 (Ft)	True Area: 6377.000001 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1993	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1993: 2 INCH P-401 ON 6 INCH P-211

Network: PALM BEACH COU		Branch: RW 10-28	RUNWAY 10-28		Section: 6103	Surface: AC
L.C.D. 1/1/2016	Use: RUNWAY	Rank: P	Length: 395.00 (Ft)	Width: 75.00 (Ft)	True Area: 29577.00000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2016	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	2" P-403, 6" P-211, 4" P-154, P-152  1965: 1.5: ASPHALT SURFACE - LEVEL COURSE AS NECESSARY EXISTING ASPHALT ON EXISTING SAND-ASPHALT BASE
6/1/2007	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	
1/1/1965	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	
1/1/1965	IMPORT ED	OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>	

Network: PALM BEACH COU		Branch: RW 10-28	RUNWAY 10-28		Section: 6105	Surface: AC
L.C.D. 6/1/2007	Use: RUNWAY	Rank: P	Length: 2,967.00 (Ft)	Width: 75.00 (Ft)	True Area: 223605.0000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/1/2007	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1965: 1.5: ASPHALT SURFACE - LEVEL COURSE AS NECESSARY EXISTING ASPHALT ON EXISTING SAND-ASPHALT BASE
1/1/1965	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	
1/1/1965	IMPORT ED	OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>	

Network: PALM BEACH COU		Branch: RW 16-34	RUNWAY 16-34		Section: 6205	Surface: AAC
L.C.D. 7/12/2013	Use: RUNWAY	Rank: P	Length: 276.00 (Ft)	Width: 100.00 (Ft)	True Area: 27600.00000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/12/2013	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	1" Mill, 2" P-401SP
1/1/1992	ST-SC	Surface Treatment - Seal Coat	0.00	0.00	<input type="checkbox"/>	1992: P-628 PAVEMENT REJUVEN
1/1/1975	IMPORT ED	OVERLAY	0.00	0.00	<input checked="" type="checkbox"/>	1975: FDOT TYPE I ASPHALT
1/1/1964	IMPORT ED	BUILT	0.00	1.50	<input checked="" type="checkbox"/>	1964: 1.5" ASPHALT OVERLAY ON EXISTING FLEX. PAVEMENT

Network: PALM BEACH COU		Branch: RW 16-34	RUNWAY 16-34		Section: 6215	Surface: AAC
L.C.D. 7/12/2013	Use: RUNWAY	Rank: P	Length: 3,149.00 (Ft)	Width: 100.00 (Ft)	True Area: 315000.0000 (SqFt)	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/12/2013	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	1" Mill, 2" P-401SP
1/1/1975	IMPORT ED	BUILT	0.00	0.00	<input checked="" type="checkbox"/>	1975: FDOT TYPE I ASPHALT OVERLAY ON EXISTING FLEX. P

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Network: PALM BEACH COU		Branch: RW 4-22		RUNWAY 4-22		Section: 6305	Surface: AC
L.C.D. 1/1/1993		Use: RUNWAY		Rank: P	Length: 2,600.00 (Ft)	Width: 75.00 (Ft)	True Area: 216104.0000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1993	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1993: 2" P401 ON 6" P211	

Network: PALM BEACH COU		Branch: RW 4-22		RUNWAY 4-22		Section: 6310	Surface: AC
L.C.D. 1/1/2016		Use: RUNWAY		Rank: P	Length: 160.00 (Ft)	Width: 75.00 (Ft)	True Area: 13113.00000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2016	CR-AC	Complete Reconstruction - AC	65,565.00	0.00	<input checked="" type="checkbox"/>	2" P-403, 6" P-211, 4" P-154, P-152	
1/1/1965	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	1965: 1.5: ASPHALT SURFACE - LE	

Network: PALM BEACH COU		Branch: TW A		TAXIWAY A		Section: 310	Surface: AC
L.C.D. 6/1/2007		Use: TAXIWAY		Rank: P	Length: 2,868.00 (Ft)	Width: 35.00 (Ft)	True Area: 110651.0000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
6/1/2007	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>		

Network: PALM BEACH COU		Branch: TW B1		TAXIWAY B1		Section: 215	Surface: AC
L.C.D. 1/1/1993		Use: TAXIWAY		Rank: P	Length: 200.00 (Ft)	Width: 40.00 (Ft)	True Area: 3442.000001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1993	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1993: 2 INCH P-401 ON 6 INCH P-211	

Network: PALM BEACH COU		Branch: TW B1		TAXIWAY B1		Section: 217	Surface: AAC
L.C.D. 7/12/2013		Use: TAXIWAY		Rank: P	Length: 200.00 (Ft)	Width: 40.00 (Ft)	True Area: 5087.000001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
7/12/2013	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	1" MILL AND 2" P-401 OVERLAY	
1/1/1993	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	1993: 2" P-401 ON 6" P-211	

Network: PALM BEACH COU		Branch: TW B		TAXIWAY B		Section: 205	Surface: AC
L.C.D. 1/1/1993		Use: TAXIWAY		Rank: P	Length: 2,724.00 (Ft)	Width: 35.00 (Ft)	True Area: 99105.00003 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/1993	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1993: 2 INCH P-401 ON 6 INCH P-211	

Network: PALM BEACH COU		Branch: TW B		TAXIWAY B		Section: 207	Surface: AAC
L.C.D. 1/1/2016		Use: TAXIWAY		Rank: P	Length: 110.00 (Ft)	Width: 40.00 (Ft)	True Area: 5659.000001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
1/1/2016	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	2" Mill, 2" P-403	
1/1/1993	IMPORT ED	BUILT	0.00	2.00	<input checked="" type="checkbox"/>	1993: 2 INCH P-401 ON 6 INCH P-211	

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Network: PALM BEACH COU		Branch: TW B	TAXIWAY B		Section: 210	Surface: AAC
L.C.D.	7/12/2013	Use: TAXIWAY	Rank: P	Length: 255.00 (Ft)	Width: 40.00 (Ft)	True Area: 11820.00000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/12/2013	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	2" MILL AND 2" P-401 OVERLAY
1/1/1993	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	1993: 2 INCH P-401 ON 6" P-211

Network: PALM BEACH COU		Branch: TW B2	TAXIWAY B2		Section: 220	Surface: AC
L.C.D.	1/1/1993	Use: TAXIWAY	Rank: P	Length: 200.00 (Ft)	Width: 40.00 (Ft)	True Area: 4124.000001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/1993	NU-IN	New Construction - Initial	0.00	2.00	<input checked="" type="checkbox"/>	1993: 2 INCH P-401 ON 6 INCH P-2

Network: PALM BEACH COU		Branch: TW B2	TAXIWAY B2		Section: 223	Surface: AAC
L.C.D.	7/12/2013	Use: TAXIWAY	Rank: P	Length: 200.00 (Ft)	Width: 40.00 (Ft)	True Area: 5529.000001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/12/2013	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	1" MILL AND 2" P-401 OVERLAY
1/1/1993	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	1993: 2" P-401 ON 6" P-211

Network: PALM BEACH COU		Branch: TW C	TAXIWAY C		Section: 105	Surface: AC
L.C.D.	7/12/2013	Use: TAXIWAY	Rank: P	Length: 2,750.00 (Ft)	Width: 52.00 (Ft)	True Area: 170104.0000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/12/2013	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	2" P-401, 6" P-211, 4" P-154, 24" P-1
1/1/1964	IMPORT ED	BUILT	0.00	1.50	<input checked="" type="checkbox"/>	1964: 1.5" ASPHALT OVERLAY ON EXISTING FLEX. PAVEMENT

Network: PALM BEACH COU		Branch: TW D	TAXIWAY D		Section: 120	Surface: AAC
L.C.D.	1/1/2016	Use: TAXIWAY	Rank: P	Length: 90.00 (Ft)	Width: 40.00 (Ft)	True Area: 5048.000001 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2016	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	2" Mill, 2" P-403
1/1/1964	NU-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	1964: 1.5" ASPHALT OVERLAY ON

Network: PALM BEACH COU		Branch: TW D	TAXIWAY D		Section: 125	Surface: AAC
L.C.D.	7/12/2013	Use: TAXIWAY	Rank: P	Length: 231.00 (Ft)	Width: 40.00 (Ft)	True Area: 9691.000002 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
7/12/2013	ML-OVL	Mill and Overlay	0.00	0.00	<input checked="" type="checkbox"/>	2" MILL AND 2" P-401 OVERLAY
1/1/1964	NU-IN	New Construction - Initial	0.00	0.00	<input checked="" type="checkbox"/>	1964: 1.5" ASPHALT OVERLAY ON

Network: PALM BEACH COU		Branch: TW E	TAXIWAY E		Section: 103	Surface: AC
L.C.D.	1/1/2007	Use: TAXIWAY	Rank: P	Length: 270.00 (Ft)	Width: 60.00 (Ft)	True Area: 16849.00000 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
1/1/2007	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	
1/1/1964	NU-IN	New Construction - Initial	0.00	1.50	<input checked="" type="checkbox"/>	1964: 1.5" ASPHALT OVERLAY ON

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*Pavement Database: FDOT*

**Network:** PALM BEACH COU    **Branch:** TW P    TAXIWAY P    **Section:** 115    **Surface:** AC  
**L.C.D.** 6/1/2007    **Use:** TAXIWAY    **Rank:** P    **Length:** 267.00 (Ft)    **Width:** 67.00 (Ft)    **True Area:** 12354.00000 (SqFt)

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
6/1/2007	CR-AC	Complete Reconstruction - AC	0.00	0.00	<input checked="" type="checkbox"/>	1964: 1.5" ASPHALT OVERLAY ON EXISTING FLEX. PAVEMENT
1/1/1964	IMPORT ED	BUILT	0.00	1.50	<input checked="" type="checkbox"/>	

**Summary:**

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
BUILT	16	1,873,665.00	1.50	0.75
Complete Reconstruction - AC	10	1,073,520.00	0.00	0.00
Complete Reconstruction - PCC	1	3,206.00	0.00	0.00
Mill and Overlay	9	509,886.00	0.00	0.00
New Construction - AC	2	235,103.00	0.00	0.00
New Construction - Initial	9	102,082.00	0.56	0.80
OVERLAY	4	417,183.00	0.37	0.65
Overlay - AC Structural	1	124,452.00	0.00	0.00
Surface Treatment - Seal Coat	1	27,600.00	0.00	0.00

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**Branch Condition Report**

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*Pavement Database: FDOT*

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
AP GA	6	2,812.00	478.17	889,190.00	APRON	86.50	14.37	81.85
AP RU 10	1	300.00	100.00	30,821.00	APRON	86.00	0.00	86.00
AP RU 16	1	130.00	50.00	6,377.00	APRON	61.00	0.00	61.00
RW 10-28	2	3,362.00	75.00	253,182.00	RUNWAY	80.50	4.50	77.05
RW 16-34	2	3,425.00	100.00	342,600.00	RUNWAY	72.50	0.50	72.08
RW 4-22	2	2,760.00	75.00	229,217.00	RUNWAY	76.50	9.50	68.09
TW A	1	2,868.00	35.00	110,651.00	TAXIWAY	74.00	0.00	74.00
TW B	3	3,089.00	38.33	116,584.00	TAXIWAY	77.33	5.31	72.24
TW B1	2	400.00	40.00	8,529.00	TAXIWAY	77.50	7.50	78.95
TW B2	2	400.00	40.00	9,653.00	TAXIWAY	76.00	7.00	77.02
TW C	1	2,750.00	52.00	170,104.00	TAXIWAY	86.00	0.00	86.00
TW D	2	321.00	40.00	14,739.00	TAXIWAY	80.50	6.50	78.45
TW E	1	270.00	60.00	16,849.00	TAXIWAY	76.00	0.00	76.00
TW P	1	267.00	67.00	12,354.00	TAXIWAY	76.00	0.00	76.00

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<b>Use Category</b>	<b>Number of Sections</b>	<b>Total Area (SqFt)</b>	<b>Arithmetic Average PCI</b>	<b>Average STD PCI</b>	<b>Weighted Average PCI</b>
APRON	8	926,388.00	83.25	15.02	81.84
RUNWAY	6	824,999.00	76.50	6.90	72.50
TAXIWAY	13	459,463.00	77.85	6.14	78.42
ALL	27	2,210,850.00	79.15	10.15	77.64

Pavement Database: FDOT

NetworkId: LNA

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
AP GA	4105	6/1/2016	AC	APRON	P	0	406,856.00	8/10/2022	6	88
AP GA	4110	1/1/1985	AC	APRON	P	0	183,191.00	8/10/2022	37	57
AP GA	4120	7/12/2013	AAC	APRON	P	0	124,452.00	8/10/2022	9	86
AP GA	4125	6/1/2016	AC	APRON	P	0	136,401.00	8/10/2022	6	88
AP GA	4130	7/1/2021	AC	APRON	P	0	35,084.00	7/1/2021	0	100
AP GA	4135	7/1/2021	PCC	APRON	P	0	3,206.00	7/1/2021	0	100
AP RU 10	4205	7/12/2013	AC	APRON	P	0	30,821.00	8/10/2022	9	86
AP RU 16	4305	1/1/1993	AC	APRON	P	0	6,377.00	8/10/2022	29	61
RW 10-28	6103	1/1/2016	AC	RUNWAY	P	0	29,577.00	8/10/2022	6	85
RW 10-28	6105	6/1/2007	AC	RUNWAY	P	0	223,605.00	8/10/2022	15	76
RW 16-34	6205	7/12/2013	AAC	RUNWAY	P	0	27,600.00	8/10/2022	9	73
RW 16-34	6215	7/12/2013	AAC	RUNWAY	P	0	315,000.00	8/10/2022	9	72
RW 4-22	6305	1/1/1993	AC	RUNWAY	P	0	216,104.00	8/10/2022	29	67
RW 4-22	6310	1/1/2016	AC	RUNWAY	P	0	13,113.00	8/10/2022	6	86
TW A	310	6/1/2007	AC	TAXIWAY	P	0	110,651.00	8/10/2022	15	74
TW B	205	1/1/1993	AC	TAXIWAY	P	0	99,105.00	8/10/2022	29	71
TW B	207	1/1/2016	AAC	TAXIWAY	P	0	5,659.00	8/10/2022	6	84
TW B	210	7/12/2013	AAC	TAXIWAY	P	0	11,820.00	8/10/2022	9	77
TW B1	215	1/1/1993	AC	TAXIWAY	P	0	3,442.00	8/10/2022	29	70
TW B1	217	7/12/2013	AAC	TAXIWAY	P	0	5,087.00	8/10/2022	9	85
TW B2	220	1/1/1993	AC	TAXIWAY	P	0	4,124.00	8/10/2022	29	69
TW B2	223	7/12/2013	AAC	TAXIWAY	P	0	5,529.00	8/10/2022	9	83
TW C	105	7/12/2013	AC	TAXIWAY	P	0	170,104.00	8/10/2022	9	86
TW D	120	1/1/2016	AAC	TAXIWAY	P	0	5,048.00	8/10/2022	6	87
TW D	125	7/12/2013	AAC	TAXIWAY	P	0	9,691.00	8/10/2022	9	74
TW E	103	1/1/2007	AC	TAXIWAY	P	0	16,849.00	8/10/2022	15	76
TW P	115	6/1/2007	AC	TAXIWAY	P	0	12,354.00	8/10/2022	15	76

*Pavement Database: FDOT*

Age Category	Average Age at Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
00-02		38,290.00	2	100.00	0.00	100.00
06-10	8	1,296,758.00	15	82.67	5.46	82.94
11-15	15	363,459.00	4	75.50	0.87	75.39
26-30	29	329,152.00	5	67.60	3.56	68.14
36-40	37	183,191.00	1	57.00	0.00	57.00
ALL	13	2,210,850.00	27	79.15	10.15	77.64



# **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
LNA	RW 4-22	6310	WEATHERING	Medium	655	SF	5.0%	Preventive	Surface Seal	656	SF	\$ 0.75	\$ 500
LNA	RW 10-28	6103	RAVELING	Low	2,080	SF	7.0%	Preventive	Surface Seal	2,080	SF	\$ 0.75	\$ 1,570
LNA	RW 10-28	6105	RAVELING	Low	42,854	SF	19.2%	Preventive	Surface Seal	42,853	SF	\$ 0.75	\$ 32,150
LNA	RW 10-28	6105	WEATHERING	Medium	1,863	SF	0.8%	Preventive	Surface Seal	1,863	SF	\$ 0.75	\$ 1,400
LNA	RW 16-34	6205	L & T CR	Medium	78	LF	0.3%	Preventive	AC Crack Sealing	78	LF	\$ 4.00	\$ 320
LNA	RW 16-34	6205	RAVELING	Low	1,380	SF	5.0%	Preventive	Surface Seal	1,380	SF	\$ 0.75	\$ 1,040
LNA	RW 16-34	6205	WEATHERING	Medium	2,760	SF	10.0%	Preventive	Surface Seal	2,760	SF	\$ 0.75	\$ 2,070
LNA	RW 16-34	6215	L & T CR	Medium	2,767	LF	0.9%	Preventive	AC Crack Sealing	2,767	LF	\$ 4.00	\$ 11,070
LNA	RW 16-34	6215	RAVELING	Medium	174	SF	0.1%	Preventive	Surface Seal	174	SF	\$ 0.75	\$ 140
LNA	RW 16-34	6215	WEATHERING	Medium	86,557	SF	27.5%	Preventive	Surface Seal	86,557	SF	\$ 0.75	\$ 64,920
LNA	TW A	310	RAVELING	Low	20,388	SF	18.4%	Preventive	Surface Seal	20,388	SF	\$ 0.75	\$ 15,300
LNA	TW A	310	RAVELING	Medium	119	SF	0.1%	Preventive	Surface Seal	120	SF	\$ 0.75	\$ 90
LNA	TW A	310	WEATHERING	Medium	2,051	SF	1.9%	Preventive	Surface Seal	2,051	SF	\$ 0.75	\$ 1,540
LNA	TW B	205	RAVELING	Low	16,518	SF	16.7%	Preventive	Surface Seal	16,517	SF	\$ 0.75	\$ 12,390
LNA	TW B	205	WEATHERING	Medium	62,767	SF	63.3%	Preventive	Surface Seal	62,767	SF	\$ 0.75	\$ 47,080
LNA	TW B	207	WEATHERING	Medium	283	SF	5.0%	Preventive	Surface Seal	283	SF	\$ 0.75	\$ 220
LNA	TW B	210	WEATHERING	Medium	1,774	SF	15.0%	Preventive	Surface Seal	1,774	SF	\$ 0.75	\$ 1,340
LNA	TW B1	217	WEATHERING	Medium	509	SF	10.0%	Preventive	Surface Seal	509	SF	\$ 0.75	\$ 390
LNA	TW B2	223	WEATHERING	Medium	829	SF	15.0%	Preventive	Surface Seal	829	SF	\$ 0.75	\$ 630
LNA	TW C	105	WEATHERING	Medium	10,129	SF	6.0%	Preventive	Surface Seal	10,129	SF	\$ 0.75	\$ 7,600
LNA	TW D	120	WEATHERING	Medium	252	SF	5.0%	Preventive	Surface Seal	252	SF	\$ 0.75	\$ 190
LNA	TW D	125	WEATHERING	Medium	1,452	SF	15.0%	Preventive	Surface Seal	1,452	SF	\$ 0.75	\$ 1,090
LNA	TW E	103	RAVELING	Low	3,370	SF	20.0%	Preventive	Surface Seal	3,370	SF	\$ 0.75	\$ 2,530
LNA	TW P	115	RAVELING	Low	1,236	SF	10.0%	Preventive	Surface Seal	1,236	SF	\$ 0.75	\$ 930
LNA	AP GA	4105	WEATHERING	Medium	4,885	SF	1.2%	Preventive	Surface Seal	4,885	SF	\$ 0.75	\$ 3,670
LNA	AP GA	4120	WEATHERING	Medium	2,523	SF	2.0%	Preventive	Surface Seal	2,523	SF	\$ 0.75	\$ 1,900
LNA	AP GA	4125	WEATHERING	Medium	1,935	SF	1.4%	Preventive	Surface Seal	1,934	SF	\$ 0.75	\$ 1,460
LNA	AP RU 10	4205	WEATHERING	Medium	1,540	SF	5.0%	Preventive	Surface Seal	1,539	SF	\$ 0.75	\$ 1,160

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

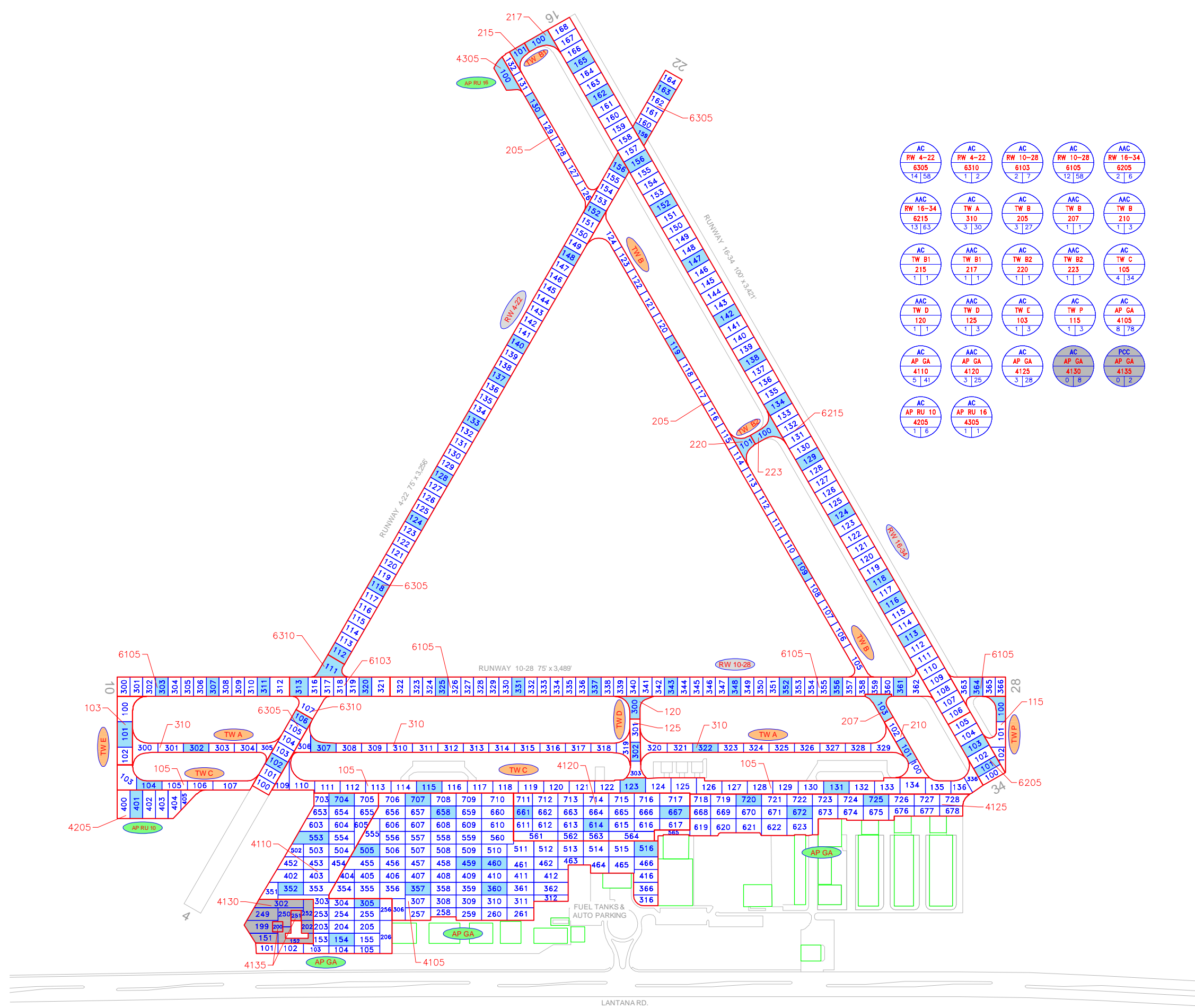
Program Year	Network ID	Branch ID	Section ID	Surface	Area (SF)	PCI Before	Rehabilitation Type	Planning Cost Estimate
2023	LNA	RW 4-22	6305	AC	216,104	67	AC Rehabilitation	\$ 2,270,000
2023	LNA	TW B1	215	AC	3,442	69	AC Rehabilitation	\$ 37,000
2023	LNA	TW B2	220	AC	4,124	68	AC Rehabilitation	\$ 44,000
2023	LNA	AP GA	4110	AC	183,191	56	AC Rehabilitation	\$ 1,924,000
2023	LNA	AP RU 16	4305	AC	6,377	60	AC Rehabilitation	\$ 67,000
2024	LNA	RW 16-34	6205	AAC	27,600	70	AC Rehabilitation	\$ 305,000
2024	LNA	RW 16-34	6215	AAC	315,000	69	AC Rehabilitation	\$ 3,473,000
2024	LNA	TW B	205	AC	99,105	69	AC Rehabilitation	\$ 1,093,000
2026	LNA	TW A	310	AC	110,651	70	AC Rehabilitation	\$ 1,345,000
2026	LNA	TW D	125	AAC	9,691	69	AC Rehabilitation	\$ 118,000
2028	LNA	TW B	210	AAC	11,820	69	AC Rehabilitation	\$ 159,000
2028	LNA	TW E	103	AC	16,849	69	AC Rehabilitation	\$ 226,000
2028	LNA	TW P	115	AC	12,354	69	AC Rehabilitation	\$ 166,000
2029	LNA	RW 10-28	6105	AC	223,605	70	AC Rehabilitation	\$ 3,147,000
2030	LNA	AP GA	4120	AAC	124,452	69	AC Rehabilitation	\$ 1,839,000
2031	LNA	TW B2	223	AAC	5,529	70	AC Rehabilitation	\$ 86,000
2031	LNA	AP RU 10	4205	AC	30,821	70	AC Rehabilitation	\$ 479,000
2032	LNA	TW B	207	AAC	5,659	69	AC Rehabilitation	\$ 93,000
2032	LNA	TW B1	217	AAC	5,087	70	AC Rehabilitation	\$ 83,000
2032	LNA	AP GA	4105	AC	406,856	70	AC Rehabilitation	\$ 6,628,000
2032	LNA	AP GA	4125	AC	136,401	70	AC Rehabilitation	\$ 2,222,000

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



# Appendix C: Technical Exhibits





AC RW 4-22 6305 14   58	AC RW 4-22 6310 1   2	AC RW 10-28 6103 2   7	AC RW 10-28 6105 12   58	AAC RW 16-34 6205 2   6
AAC RW 16-34 6215 13   63	AC TW A 310 3   30	AC TW B 205 3   27	AAC TW B 207 1   1	AAC TW B 210 1   3
AC TW B1 215 1   1	AAC TW B1 217 1   1	AC TW B2 220 1   1	AAC TW B2 223 1   1	AC TW C 105 4   34
AAC TW D 120 1   1	AAC TW D 125 1   3	AC TW E 103 1   3	AC TW P 115 1   3	AC AP GA 4105 8   78
AC AP GA 4110 5   41	AAC AP GA 4120 3   25	AC AP GA 4125 3   28	AC AP GA 4130 0   8	PCC AP GA 4135 0   2
AC AP RU 10 4205 1   6	AC AP RU 16 4305 1   1			

LEGEND

- TYPICAL RUNWAY BRANCH ID
- TYPICAL TAXIWAY BRANCH ID
- TYPICAL APRON BRANCH ID
- PAVEMENT SURFACE TYPE
- PAVEMENT BRANCH ID
- SECTION NUMBER
- NUMBER OF SAMPLE UNITS IN SECTION
- NUMBER OF SAMPLE UNITS TO BE INSPECTED
- SECTION NOT INSPECTED DUE TO RECENT CONSTRUCTION. SEE SYSTEM INVENTORY MAP FOR CONSTRUCTION DATES.
- INSPECTED SAMPLE UNITS.

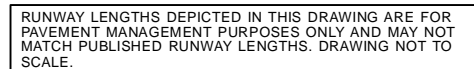
TOTAL SAMPLES INSPECTED = 85  
AC: 85    PCC: 0

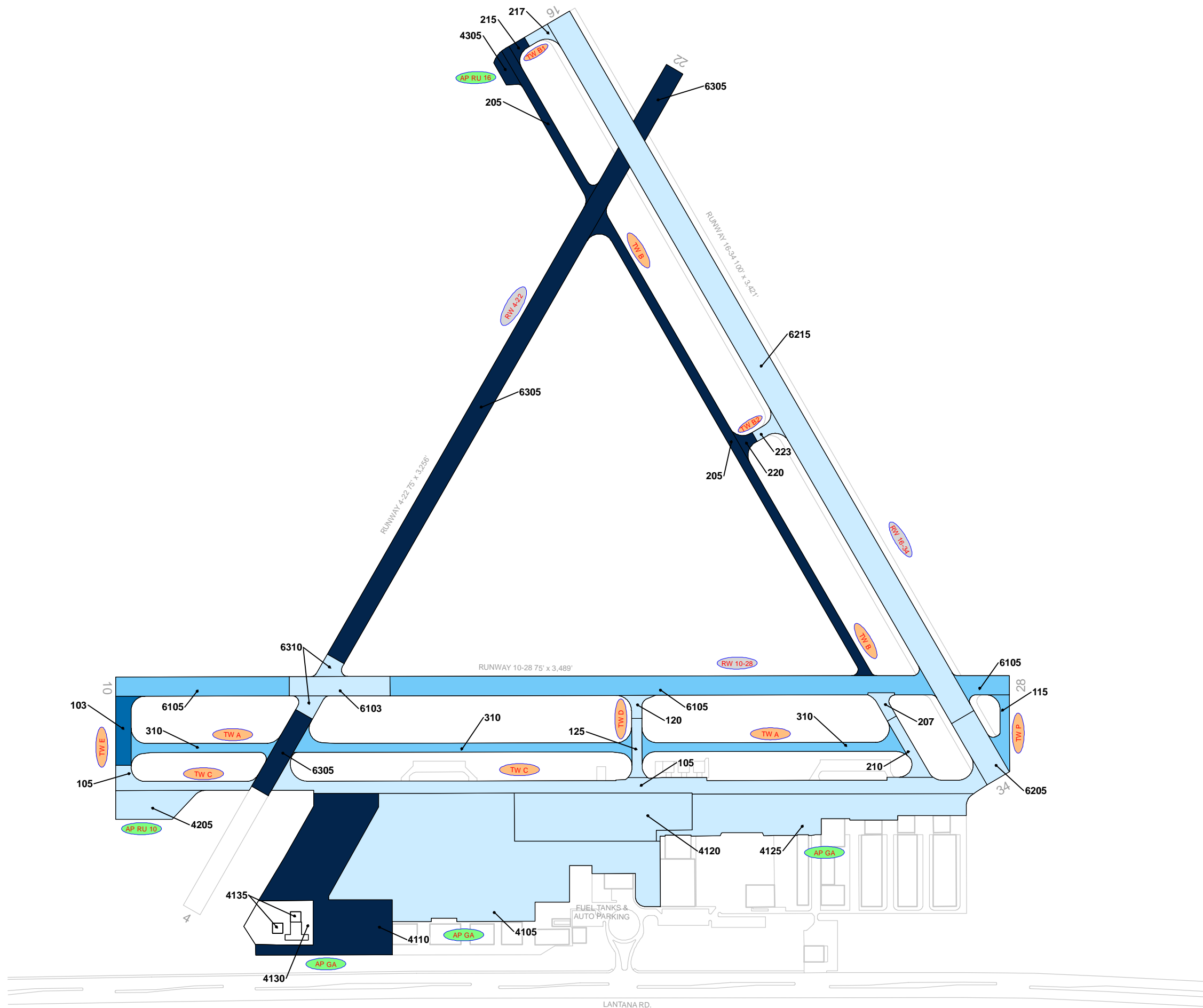
RUNWAY LENGTHS DEPICTED IN THIS DRAWING ARE FOR PAVEMENT MANAGEMENT PURPOSES ONLY AND MAY NOT MATCH PUBLISHED RUNWAY LENGTHS. DRAWING NOT TO SCALE.

LANTANA RD.



CONSTRUCTION YEAR	LOCATION	WORK TYPE / PAVEMENT SECTION
2021	AP GA	Complete Reconstruction - AC   2" P-403, 6" P-211, 4" P-154, P-152
	AP GA	Complete Reconstruction - PCC   5" P-610, 12" COMPACTED SUBGRADE
2023	AP GA, RW 4-22	Mill and Overlay

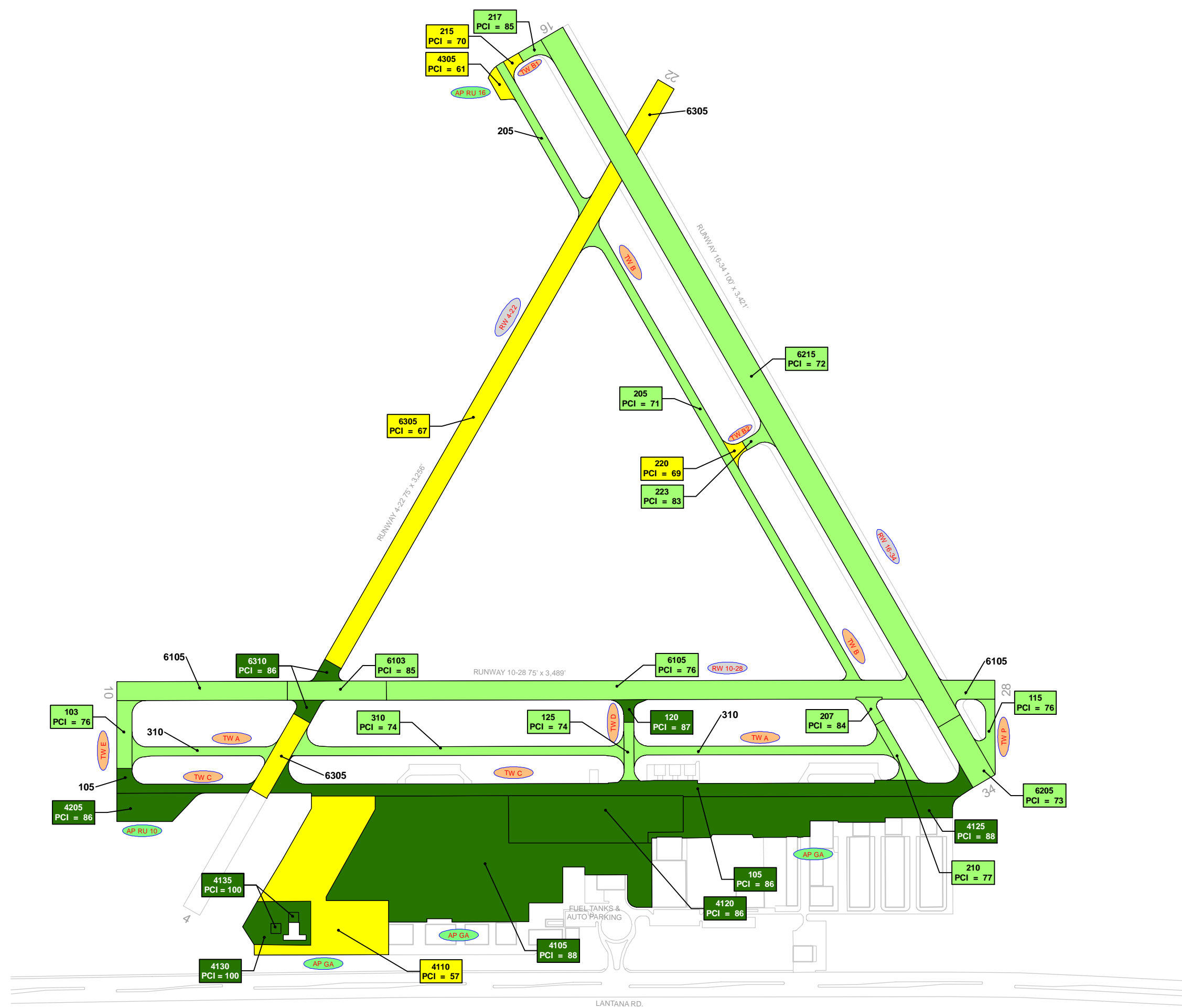




- LEGEND**
- RW 13-31 ← TYPICAL RUNWAY BRANCH ID
  - TW A ← TYPICAL TAXIWAY BRANCH ID
  - AP S ← TYPICAL APRON BRANCH ID

- 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.



**LEGEND**

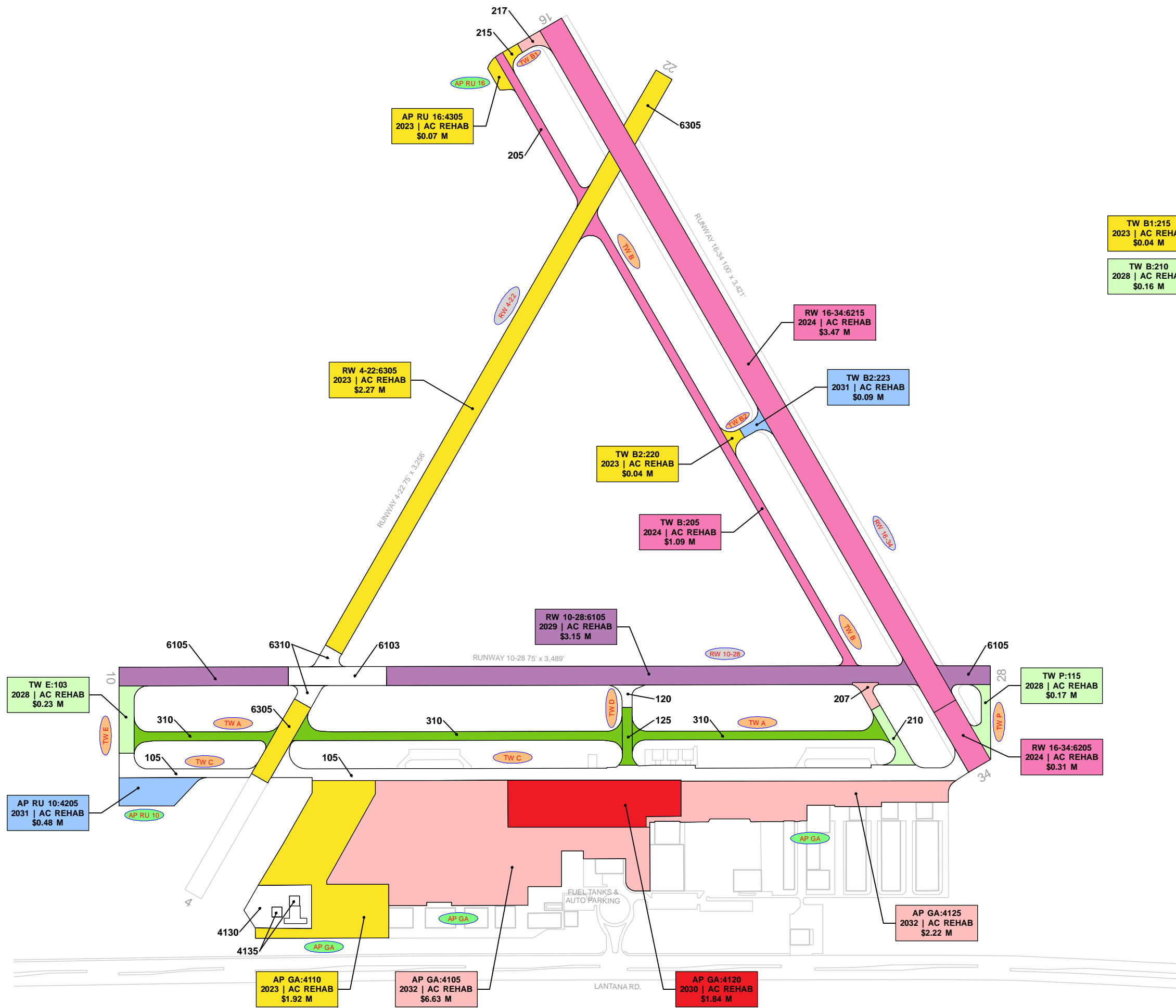
- RW 13-31 TYPICAL RUNWAY BRANCH ID
- TW A TYPICAL TAXIWAY BRANCH ID
- AP S TYPICAL APRON BRANCH ID

**2022 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.



TW B1:215 2023   AC REHAB \$0.04 M	TW D:125 2026   AC REHAB \$0.12 M	TW A:310 2026   AC REHAB \$1.35 M
TW B:210 2028   AC REHAB \$0.16 M	TW B:207 2032   AC REHAB \$0.09 M	TW B1:217 2032   AC REHAB \$0.08 M

**LEGEND**

RW 13-31 — TYPICAL RUNWAY BRANCH ID

TW A — TYPICAL TAXIWAY BRANCH ID

AP S — TYPICAL APRON BRANCH ID

**PROGRAM YEAR**

2023	2028
2024	2029
2025	2030
2026	2031
2027	2032

"BRANCH," "SECTION"  
"YEAR," "REHAB ACTIVITY"  
"EST. COST"

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



# Appendix D: Inspection Photograph Documentation





RW 4-22, Section 6305, Sample Unit 124 – Longitudinal and Transverse Cracking



RW 4-22, Section 6305, Sample Unit 156– Vicinity



RW 10-28, Section 6105, Sample Unit 331 – Weathering



RW 10-28, Section 6105, Sample Unit 364 – Vicinity



RW 16-34, Section 6215, Sample Unit 152 – Longitudinal and Transverse Cracking



RW 16-34, Section 6215, Sample Unit 124 – Longitudinal and Transverse Cracking



TW A, Section 310, Sample Unit 307 – Vicinity



TW B, Section 205, Sample Unit 109 – Longitudinal and Transverse Cracking



TW C, Section 105, Sample Unit 115 – Longitudinal and Transverse Cracking



AP GA, Section 4105, Sample Unit 357 – Vicinity



AP GA, Section 4110, Sample Unit 553 – Oil Spillage



AP GA, Section 4120, Sample Unit 667 – Depression



# **Appendix E: Inspection Distress Details**



# Re-Inspection Report

FDOT

Generated Date 11/17/2022

Page 1 of 30

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT			
Branch:	AP GA	Name:	GA APRON	Use:	APRON	Area:	889,190 SqFt
Section:	4105	of	6	From:	-	To:	-
Surface:	AC	Family:	CA653-RL-AP-AC	Zone:		Category:	
Area:	406,856 SqFt	Length:	500 Ft	Width:	1,180 Ft	Rank:	P
Slabs:		Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft
Shoulder:		Street Type:		Grade:	0	Lanes:	0
Section Comments:							
Work Date:	1/1/1985	Work Type:	BUILT	Code:	IMPORTED	Is Major M&R:	True
Work Date:	6/1/2016	Work Type:	Complete Reconstruction - AC	Code:	CR-AC	Is Major M&R:	True
Last Insp. Date:	8/10/2022	TotalSamples:	78	Surveyed:	8		
Conditions:	PCI:	88					
Inspection Comments:							
Sample Number:	357	Type:	R	Area:	5000.00 SqFt	PCI:	84
Sample Comments:							
50	PATCHING	L	177.00 SqFt				
57	WEATHERING	L	4582.00 SqFt				
57	WEATHERING	M	241.00 SqFt				
Sample Number:	360	Type:	R	Area:	5000.00 SqFt	PCI:	90
Sample Comments:							
48	L & T CR	L	3.00 Ft				
57	WEATHERING	L	4950.00 SqFt				
57	WEATHERING	M	50.00 SqFt				
Sample Number:	459	Type:	R	Area:	5000.00 SqFt	PCI:	89
Sample Comments:							
48	L & T CR	L	12.00 Ft				
57	WEATHERING	L	4950.00 SqFt				
57	WEATHERING	M	50.00 SqFt				
Sample Number:	460	Type:	R	Area:	5000.00 SqFt	PCI:	88
Sample Comments:							
48	L & T CR	L	21.00 Ft				
57	WEATHERING	L	4950.00 SqFt				
57	WEATHERING	M	50.00 SqFt				
Sample Number:	505	Type:	R	Area:	5069.00 SqFt	PCI:	90
Sample Comments:							
48	L & T CR	L	32.00 Ft				
57	WEATHERING	L	5069.00 SqFt				
Sample Number:	516	Type:	R	Area:	5828.00 SqFt	PCI:	89
Sample Comments:							
48	L & T CR	L	48.00 Ft				
57	WEATHERING	L	5828.00 SqFt				
Sample Number:	658	Type:	R	Area:	5000.00 SqFt	PCI:	88
Sample Comments:							
48	L & T CR	L	32.00 Ft				
57	WEATHERING	L	4900.00 SqFt				
57	WEATHERING	M	100.00 SqFt				
Sample Number:	707	Type:	R	Area:	5000.00 SqFt	PCI:	89
Sample Comments:							
48	L & T CR	L	63.00 Ft				



Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT				
Branch:	AP GA		Name:	GA APRON		Use:	APRON	Area:	889,190 SqFt
Section:	4110	of 6	From:	-			To:	-	Last Const.: 1/1/1985
Surface:	AC	Family:	CA653-RL-AP-AC		Zone:	Category:		Rank: P	
Area:	183,191 SqFt		Length:	630 Ft		Width:	522 Ft		
Slabs:	Slab Length:		Ft	Slab Width:		Ft	Joint Length:		Ft
Shoulder:	Street Type:		Grade:		0		Lanes:	0	
Section Comments:									
Work Date:	1/1/1985		Work Type: BUILT			Code:	IMPORTED		Is Major M&R: True
Last Insp. Date:	8/10/2022		TotalSamples:	41		Surveyed: 5			
Conditions:	PCI:	57							
Inspection Comments:									
Sample Number:	154	Type:	R	Area:	5000.00 SqFt		PCI:	61	
Sample Comments:									
48	L & T CR		L	522.00 Ft					
48	L & T CR		M	20.00 Ft					
52	RAVELING		M	100.00 SqFt					
57	WEATHERING		M	4900.00 SqFt					
Sample Number:	305	Type:	R	Area:	3500.00 SqFt		PCI:	45	
Sample Comments:									
48	L & T CR		L	130.00 Ft					
48	L & T CR		M	10.00 Ft					
50	PATCHING		L	9.00 SqFt					
52	RAVELING		L	2094.00 SqFt					
52	RAVELING		M	1397.00 SqFt					
Sample Number:	352	Type:	R	Area:	5000.00 SqFt		PCI:	64	
Sample Comments:									
48	L & T CR		L	413.00 Ft					
48	L & T CR		M	45.00 Ft					
52	RAVELING		L	1250.00 SqFt					
57	WEATHERING		M	3750.00 SqFt					
Sample Number:	553	Type:	R	Area:	6526.00 SqFt		PCI:	54	
Sample Comments:									
45	DEPRESSION		L	24.00 SqFt					
48	L & T CR		L	366.00 Ft					
48	L & T CR		M	74.00 Ft					
49	OIL SPILLAGE		N	36.00 SqFt					
52	RAVELING		L	6394.00 SqFt					
52	RAVELING		M	132.00 SqFt					
Sample Number:	704	Type:	R	Area:	5000.00 SqFt		PCI:	59	
Sample Comments:									
45	DEPRESSION		L	204.00 SqFt					
48	L & T CR		L	364.00 Ft					
48	L & T CR		M	73.00 Ft					
52	RAVELING		L	5000.00 SqFt					

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT										
Branch:	AP GA		Name:	GA APRON		Use:	APRON		Area:	889,190 SqFt				
Section:	4120		of	6		From:	-		To:	-		Last Const.:	7/12/2013	
Surface:	AAC		Family:	CA653-RL-AP-AAC-APC				Zone:			Category:	Rank: P		
Area:	124,452 SqFt		Length:	188 Ft		Width:	694 Ft							
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft				
Shoulder:			Street Type:			Grade:	0		Lanes:	0				
Section Comments:														
Work Date:	1/1/1965		Work Type:	New Construction - AC				Code:	NC-AC		Is Major M&R:	True		
Work Date:	1/1/1985		Work Type:	Overlay - AC Structural				Code:	OL-AS		Is Major M&R:	True		
Work Date:	7/12/2013		Work Type:	Mill and Overlay				Code:	ML-OVL		Is Major M&R:	True		
Last Insp. Date:	8/10/2022		TotalSamples:	25		Surveyed:	3							
Conditions:	PCI: 86													
Inspection Comments:														
Sample Number:	614		Type:	R		Area:	5000.00 SqFt		PCI:	94				
Sample Comments:														
57	WEATHERING		L	5000.00 SqFt										
Sample Number:	661		Type:	R		Area:	3750.00 SqFt		PCI:	89				
Sample Comments:														
48	L & T CR		L	43.00 Ft										
57	WEATHERING		L	3750.00 SqFt										
Sample Number:	667		Type:	R		Area:	5950.00 SqFt		PCI:	78				
Sample Comments:														
45	DEPRESSION		L	53.00 SqFt										
48	L & T CR		L	134.00 Ft										
57	WEATHERING		L	5652.00 SqFt										
57	WEATHERING		M	298.00 SqFt										

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT							
Branch:	AP GA		Name:	GA APRON		Use:	APRON		Area:	889,190 SqFt	
Section:	4125 of 6		From:	-		To:	-		Last Const.:	6/1/2016	
Surface:	AC		Family:	CA653-RL-AP-AC		Zone:			Category:	Rank: P	
Area:	136,401 SqFt		Length:	1,240 Ft		Width:	163 Ft				
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft	
Shoulder:			Street Type:			Grade:	0		Lanes:	0	
Section Comments:											
Work Date:	1/1/1965		Work Type: BUILT				Code:	IMPORTED		Is Major M&R:	True
Work Date:	1/1/1985		Work Type: OVERLAY				Code:	IMPORTED		Is Major M&R:	True
Work Date:	6/1/2016		Work Type: Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R:	True
Last Insp. Date:	8/10/2022		TotalSamples:	28		Surveyed:	3				
Conditions:	PCI: 88										
Inspection Comments:											
Sample Number:	672		Type:	R		Area:	5000.00 SqFt		PCI:	90	
Sample Comments:											
48	L & T CR		L	22.00 Ft							
57	WEATHERING		L	5000.00 SqFt							
Sample Number:	720		Type:	R		Area:	4550.00 SqFt		PCI:	86	
Sample Comments:											
48	L & T CR		L	40.00 Ft							
57	WEATHERING		L	4350.00 SqFt							
57	WEATHERING		M	200.00 SqFt							
Sample Number:	725		Type:	R		Area:	4550.00 SqFt		PCI:	89	
Sample Comments:											
48	L & T CR		L	65.00 Ft							
57	WEATHERING		L	4550.00 SqFt							

Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT				
Branch:	AP GA		Name:	GA APRON		Use:	APRON	Area:	889,190 SqFt
Section:	4130	of	6	From:	-		To:	-	
Surface:	AC	Family:	CA653-RL-AP-AC		Zone:	Category:		Rank:	P
Area:	35,084 SqFt		Length:	174 Ft		Width:	270 Ft		
Slabs:	Slab Length:		Ft	Slab Width:		Ft	Joint Length:		Ft
Shoulder:	Street Type:		Grade:		0		Lanes:	0	
Section Comments:									
Work Date:	1/1/1985		Work Type:			BUILT		Code:	IMPORTED
Work Date:	7/1/2021		Work Type:			Complete Reconstruction - AC		Code:	CR-AC
Is Major M&R:	True								
Last Insp. Date:	5/16/2019		TotalSamples:	49		Surveyed:	5		
Conditions:	PCI:	59							
NOTE: *** Pre-Construction PCI ***									
Inspection Comments:									
Sample Number:	154	Type:	R	Area:	5000.00 SqFt		PCI:	59	
Sample Comments:									
48	L & T CR	L	637.00 Ft						
52	RAVELING	L	4750.00 SqFt						
52	RAVELING	M	250.00 SqFt						
Sample Number:	302	Type:	R	Area:	5000.00 SqFt		PCI:	64	
Sample Comments:									
48	L & T CR	L	477.00 Ft						
52	RAVELING	L	5000.00 SqFt						
56	SWELLING	L	250.00 SqFt						
Sample Number:	305	Type:	R	Area:	3500.00 SqFt		PCI:	50	
Sample Comments:									
48	L & T CR	L	85.00 Ft						
50	PATCHING	L	9.00 SqFt						
52	RAVELING	L	2095.00 SqFt						
52	RAVELING	M	1396.00 SqFt						
Sample Number:	553	Type:	R	Area:	6526.00 SqFt		PCI:	58	
Sample Comments:									
45	DEPRESSION	L	28.00 SqFt						
48	L & T CR	L	385.00 Ft						
49	OIL SPILLAGE	N	18.00 SqFt						
52	RAVELING	L	6378.00 SqFt						
52	RAVELING	M	148.00 SqFt						
Sample Number:	704	Type:	R	Area:	5000.00 SqFt		PCI:	61	
Sample Comments:									
45	DEPRESSION	L	196.00 SqFt						
48	L & T CR	L	411.00 Ft						
52	RAVELING	L	5000.00 SqFt						

Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT									
Branch:	AP RU 10		Name:	RUN-UP APRON 10		Use:	APRON		Area:	30,821 SqFt				
Section:	4205		of	1	From:	-			To:	-		Last Const.:	7/12/2013	
Surface:	AC		Family:	CA653-RL-AP-AC		Zone:				Category:	Rank: P			
Area:	30,821 SqFt		Length:	300 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:	7/12/2013		Work Type:	New Construction - Initial					Code:	NU-IN		Is Major M&R:	True	
Last Insp. Date:	8/10/2022		TotalSamples:	6		Surveyed:	1							
Conditions:	PCI: 86													
Inspection Comments:														
Sample Number:	401		Type:	R		Area:	5625.00 SqFt			PCI:	86			
Sample Comments:														
48	L & T CR		L	5.00 Ft										
49	OIL SPILLAGE		N	8.00 SqFt										
57	WEATHERING		L	5344.00 SqFt										
57	WEATHERING		M	281.00 SqFt										

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT					
Branch:	AP RU 16		Name:	RUN-UP APRON 16		Use:	APRON	Area:	6,377 SqFt
Section:	4305	of	1	From:	-	To:	-	Last Const.:	1/1/1993
Surface:	AC	Family:	CA653-RL-AP-AC	Zone:		Category:		Rank:	P
Area:	6,377 SqFt	Length:	130 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:	1/1/1993	Work Type:	BUILT	Code:	IMPORTED	Is Major M&R:	True		
Last Insp. Date:	8/10/2022	TotalSamples:	1	Surveyed:	1				
Conditions:	PCI:	61							
Inspection Comments:									
Sample Number:	100	Type:	R	Area:	6377.00 SqFt	PCI:	61		
Sample Comments:									
45	DEPRESSION	L	16.00	SqFt					
48	L & T CR	L	87.00	Ft					
50	PATCHING	L	129.00	SqFt					
52	RAVELING	L	6198.00	SqFt					
57	WEATHERING	M	50.00	SqFt					

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT							
Branch:	RW 10-28		Name:	RUNWAY 10-28		Use:	RUNWAY	Area:	253,182 SqFt		
Section:	6103	of 2	From:	-			To:	-			
Surface:	AC	Family:	CA653-RL-RW-AC		Zone:	Category:			Rank:	P	
Area:	29,577 SqFt		Length:	395 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:	1/1/1965		Work Type: OVERLAY				Code:	IMPORTED		Is Major M&R:	True
Work Date:	1/1/1965		Work Type: BUILT				Code:	IMPORTED		Is Major M&R:	True
Work Date:	6/1/2007		Work Type: Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R:	True
Work Date:	1/1/2016		Work Type: Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R:	True
Last Insp. Date:	8/10/2022		TotalSamples:	7		Surveyed: 2					
Conditions:	PCI:	85									
Inspection Comments:											
Sample Number:	313	Type:	R	Area:	5464.00 SqFt		PCI:	85			
Sample Comments:											
48	L & T CR		L	13.00 Ft							
52	RAVELING		L	273.00 SqFt							
57	WEATHERING		L	5191.00 SqFt							
Sample Number:	320	Type:	R	Area:	3750.00 SqFt		PCI:	85			
Sample Comments:											
52	RAVELING		L	375.00 SqFt							
57	WEATHERING		L	3375.00 SqFt							

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT							
Branch:	RW 10-28		Name:	RUNWAY 10-28		Use:	RUNWAY		Area:	253,182 SqFt	
Section:	6105 of 2		From:	-		To:	-		Last Const.:	6/1/2007	
Surface:	AC		Family:	CA653-RL-RW-AC		Zone:			Category:	Rank: P	
Area:	223,605 SqFt		Length:	2,967 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:	1/1/1965		Work Type: BUILT				Code:	IMPORTED		Is Major M&R: True	
Work Date:	1/1/1965		Work Type: OVERLAY				Code:	IMPORTED		Is Major M&R: True	
Work Date:	6/1/2007		Work Type: Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R: True	
Last Insp. Date:	8/10/2022		TotalSamples:	58		Surveyed:	12				
Conditions:	PCI: 76										
Inspection Comments:											
Sample Number:	303		Type:	R		Area:	3750.00 SqFt		PCI:	76	
Sample Comments:											
48	L & T CR		L	74.00 Ft							
52	RAVELING		L	750.00 SqFt							
57	WEATHERING		L	3000.00 SqFt							
Sample Number:	307		Type:	R		Area:	3750.00 SqFt		PCI:	76	
Sample Comments:											
48	L & T CR		L	44.00 Ft							
52	RAVELING		L	750.00 SqFt							
57	WEATHERING		L	3000.00 SqFt							
Sample Number:	311		Type:	R		Area:	3750.00 SqFt		PCI:	76	
Sample Comments:											
48	L & T CR		L	58.00 Ft							
52	RAVELING		L	750.00 SqFt							
57	WEATHERING		L	3000.00 SqFt							
Sample Number:	325		Type:	R		Area:	3750.00 SqFt		PCI:	76	
Sample Comments:											
48	L & T CR		L	56.00 Ft							
52	RAVELING		L	750.00 SqFt							
57	WEATHERING		L	3000.00 SqFt							
Sample Number:	331		Type:	R		Area:	3750.00 SqFt		PCI:	76	
Sample Comments:											
48	L & T CR		L	43.00 Ft							
52	RAVELING		L	750.00 SqFt							
57	WEATHERING		L	3000.00 SqFt							
Sample Number:	337		Type:	R		Area:	3750.00 SqFt		PCI:	76	
Sample Comments:											
48	L & T CR		L	82.00 Ft							
52	RAVELING		L	750.00 SqFt							
57	WEATHERING		L	3000.00 SqFt							
Sample Number:	343		Type:	R		Area:	3750.00 SqFt		PCI:	77	
Sample Comments:											
48	L & T CR		L	34.00 Ft							
52	RAVELING		L	750.00 SqFt							
57	WEATHERING		L	3000.00 SqFt							
Sample Number:	348		Type:	R		Area:	3750.00 SqFt		PCI:	76	
Sample Comments:											
48	L & T CR		L	62.00 Ft							

52	RAVELING	L	750.00	SqFt
57	WEATHERING	L	3000.00	SqFt
<hr/>				
Sample Number: 352		Type: R	Area: 3750.00 SqFt	PCI: 76
Sample Comments:				
48	L & T CR	L	77.00	Ft
52	RAVELING	L	750.00	SqFt
57	WEATHERING	L	3000.00	SqFt
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Sample Number: 356		Type: R	Area: 3750.00 SqFt	PCI: 76
Sample Comments:				
48	L & T CR	L	70.00	Ft
52	RAVELING	L	750.00	SqFt
57	WEATHERING	L	3000.00	SqFt
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Sample Number: 361		Type: R	Area: 3750.00 SqFt	PCI: 76
Sample Comments:				
48	L & T CR	L	145.00	Ft
52	RAVELING	L	750.00	SqFt
57	WEATHERING	L	3000.00	SqFt
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Sample Number: 364		Type: R	Area: 3754.00 SqFt	PCI: 75
Sample Comments:				
48	L & T CR	L	34.00	Ft
52	RAVELING	L	375.00	SqFt
57	WEATHERING	L	3004.00	SqFt
57	WEATHERING	M	375.00	SqFt

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT							
Branch:	RW 16-34		Name:	RUNWAY 16-34		Use:	RUNWAY	Area:	342,600 SqFt		
Section:	6205 of 2		From:	-		To:	-		Last Const.:	7/12/2013	
Surface:	AAC	Family:	CA653-RL-RW-AAC-APC		Zone:			Category:	Rank: P		
Area:	27,600 SqFt		Length:	276 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:	1/1/1964		Work Type: BUILT				Code:	IMPORTED		Is Major M&R:	True
Work Date:	1/1/1975		Work Type: OVERLAY				Code:	IMPORTED		Is Major M&R:	True
Work Date:	1/1/1992		Work Type: Surface Treatment - Seal Coat				Code:	ST-SC		Is Major M&R:	False
Work Date:	7/12/2013		Work Type: Mill and Overlay				Code:	ML-OVL		Is Major M&R:	True
Last Insp. Date:	8/10/2022		TotalSamples:	6		Surveyed:	2				
Conditions:	PCI: 73										
Inspection Comments:											
Sample Number:	101		Type:	R		Area:	3800.00 SqFt		PCI:	68	
Sample Comments:											
48	L & T CR		L	138.00 Ft							
48	L & T CR		M	25.00 Ft							
52	RAVELING		L	190.00 SqFt							
57	WEATHERING		L	3230.00 SqFt							
57	WEATHERING		M	380.00 SqFt							
Sample Number:	103		Type:	R		Area:	5000.00 SqFt		PCI:	77	
Sample Comments:											
48	L & T CR		L	78.00 Ft							
52	RAVELING		L	250.00 SqFt							
56	SWELLING		L	11.00 SqFt							
57	WEATHERING		L	4250.00 SqFt							
57	WEATHERING		M	500.00 SqFt							

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT					
Branch:	RW 16-34		Name:	RUNWAY 16-34		Use:	RUNWAY	Area:	342,600 SqFt
Section:	6215	of 2	From:	-			To:	-	Last Const.: 7/12/2013
Surface:	AAC	Family:	CA653-RL-RW-AAC-APC	Zone:				Category:	Rank: P
Area:	315,000 SqFt		Length:	3,149 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:	1/1/1975		Work Type: BUILT			Code:	IMPORTED		Is Major M&R: True
Work Date:	7/12/2013		Work Type: Mill and Overlay			Code:	ML-OVL		Is Major M&R: True
Last Insp. Date:	8/10/2022		TotalSamples:	63		Surveyed:	13		
Conditions:	PCI: 72								
Inspection Comments:									
Sample Number:	113	Type:	R	Area:	5000.00 SqFt		PCI:	71	
Sample Comments:									
48	L & T CR		L	241.00	Ft				
48	L & T CR		M	71.00	Ft				
57	WEATHERING		L	4000.00	SqFt				
57	WEATHERING		M	1000.00	SqFt				
Sample Number:	116	Type:	R	Area:	5000.00 SqFt		PCI:	61	
Sample Comments:									
45	DEPRESSION		L	119.00	SqFt				
48	L & T CR		L	222.00	Ft				
48	L & T CR		M	50.00	Ft				
52	RAVELING		M	36.00	SqFt				
57	WEATHERING		L	4219.00	SqFt				
57	WEATHERING		M	745.00	SqFt				
Sample Number:	118	Type:	R	Area:	5000.00 SqFt		PCI:	69	
Sample Comments:									
48	L & T CR		L	151.00	Ft				
48	L & T CR		M	100.00	Ft				
57	WEATHERING		L	3500.00	SqFt				
57	WEATHERING		M	1500.00	SqFt				
Sample Number:	124	Type:	R	Area:	5000.00 SqFt		PCI:	68	
Sample Comments:									
48	L & T CR		L	251.00	Ft				
48	L & T CR		M	119.00	Ft				
57	WEATHERING		L	4134.00	SqFt				
57	WEATHERING		M	866.00	SqFt				
Sample Number:	129	Type:	R	Area:	5000.00 SqFt		PCI:	67	
Sample Comments:									
48	L & T CR		L	281.00	Ft				
48	L & T CR		M	50.00	Ft				
56	SWELLING		L	28.00	SqFt				
57	WEATHERING		L	3500.00	SqFt				
57	WEATHERING		M	1500.00	SqFt				
Sample Number:	134	Type:	R	Area:	5000.00 SqFt		PCI:	66	
Sample Comments:									
48	L & T CR		L	255.00	Ft				
48	L & T CR		M	117.00	Ft				
56	SWELLING		L	15.00	SqFt				
57	WEATHERING		L	3500.00	SqFt				
57	WEATHERING		M	1500.00	SqFt				

Sample Number: 138		Type:	R	Area:		5000.00 SqFt	PCI: 72
Sample Comments:							
48	L & T CR		L	131.00	Ft		
48	L & T CR		M	25.00	Ft		
56	SWELLING		L	7.00	SqFt		
57	WEATHERING		L	3500.00	SqFt		
57	WEATHERING		M	1500.00	SqFt		
Sample Number: 142		Type:	R	Area:		5000.00 SqFt	PCI: 79
Sample Comments:							
48	L & T CR		L	128.00	Ft		
57	WEATHERING		L	3500.00	SqFt		
57	WEATHERING		M	1500.00	SqFt		
Sample Number: 147		Type:	R	Area:		5000.00 SqFt	PCI: 79
Sample Comments:							
48	L & T CR		L	164.00	Ft		
57	WEATHERING		L	3500.00	SqFt		
57	WEATHERING		M	1500.00	SqFt		
Sample Number: 152		Type:	R	Area:		5000.00 SqFt	PCI: 70
Sample Comments:							
48	L & T CR		L	252.00	Ft		
48	L & T CR		M	22.00	Ft		
57	WEATHERING		L	3500.00	SqFt		
57	WEATHERING		M	1500.00	SqFt		
Sample Number: 156		Type:	R	Area:		5000.00 SqFt	PCI: 74
Sample Comments:							
48	L & T CR		L	152.00	Ft		
48	L & T CR		M	17.00	Ft		
57	WEATHERING		L	3500.00	SqFt		
57	WEATHERING		M	1500.00	SqFt		
Sample Number: 162		Type:	R	Area:		5000.00 SqFt	PCI: 79
Sample Comments:							
48	L & T CR		L	63.00	Ft		
57	WEATHERING		L	3500.00	SqFt		
57	WEATHERING		M	1500.00	SqFt		
Sample Number: 165		Type:	R	Area:		5000.00 SqFt	PCI: 78
Sample Comments:							
48	L & T CR		L	43.00	Ft		
57	WEATHERING		L	3250.00	SqFt		
57	WEATHERING		M	1750.00	SqFt		

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT										
Branch:	RW 4-22		Name:	RUNWAY 4-22		Use:	RUNWAY		Area:	229,217 SqFt				
Section:	6305		of	2		From:	-		To:	-		Last Const.:	1/1/1993	
Surface:	AC		Family:	CA653-RL-RW-AC		Zone:			Category:	Rank: P				
Area:	216,104 SqFt		Length:	2,600 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:	1/1/1993		Work Type:	BUILT				Code:	IMPORTED		Is Major M&R:	True		
Last Insp. Date:	8/10/2022		TotalSamples:	58		Surveyed:	14							
Conditions:	PCI: 67													
Inspection Comments:														
Sample Number:	102		Type:	R		Area:	3750.00 SqFt		PCI:	69				
Sample Comments:														
48	L & T CR		L	308.00 Ft										
52	RAVELING		L	1500.00 SqFt										
57	WEATHERING		L	2250.00 SqFt										
Sample Number:	106		Type:	R		Area:	3373.00 SqFt		PCI:	64				
Sample Comments:														
48	L & T CR		L	280.00 Ft										
48	L & T CR		M	24.00 Ft										
52	RAVELING		L	1855.00 SqFt										
57	WEATHERING		L	1518.00 SqFt										
Sample Number:	112		Type:	R		Area:	4191.00 SqFt		PCI:	74				
Sample Comments:														
48	L & T CR		L	230.00 Ft										
52	RAVELING		L	1257.00 SqFt										
57	WEATHERING		L	2934.00 SqFt										
Sample Number:	118		Type:	R		Area:	3750.00 SqFt		PCI:	71				
Sample Comments:														
48	L & T CR		L	196.00 Ft										
52	RAVELING		L	938.00 SqFt										
56	SWELLING		L	46.00 SqFt										
57	WEATHERING		L	2812.00 SqFt										
Sample Number:	124		Type:	R		Area:	3750.00 SqFt		PCI:	72				
Sample Comments:														
48	L & T CR		L	164.00 Ft										
52	RAVELING		L	938.00 SqFt										
56	SWELLING		L	36.00 SqFt										
57	WEATHERING		L	2812.00 SqFt										
Sample Number:	128		Type:	R		Area:	3750.00 SqFt		PCI:	67				
Sample Comments:														
48	L & T CR		L	243.00 Ft										
52	RAVELING		L	918.00 SqFt										
52	RAVELING		M	78.00 SqFt										
57	WEATHERING		L	2754.00 SqFt										
Sample Number:	133		Type:	R		Area:	3750.00 SqFt		PCI:	69				
Sample Comments:														
48	L & T CR		L	201.00 Ft										
52	RAVELING		L	746.00 SqFt										
52	RAVELING		M	22.00 SqFt										
57	WEATHERING		L	2982.00 SqFt										
Sample Number:	137		Type:	R		Area:	3750.00 SqFt		PCI:	72				
Sample Comments:														

48	L & T CR	L	252.00	Ft
52	RAVELING	L	938.00	SqFt
57	WEATHERING	L	2812.00	SqFt
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Sample Number: 140		Type: R	Area: 3750.00 SqFt	PCI: 68
Sample Comments:				
48	L & T CR	L	222.00	Ft
52	RAVELING	L	928.00	SqFt
52	RAVELING	M	40.00	SqFt
57	WEATHERING	L	2782.00	SqFt
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Sample Number: 148		Type: R	Area: 3750.00 SqFt	PCI: 69
Sample Comments:				
48	L & T CR	L	211.00	Ft
52	RAVELING	L	927.00	SqFt
52	RAVELING	M	42.00	SqFt
57	WEATHERING	L	2781.00	SqFt
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Sample Number: 152		Type: R	Area: 3750.00 SqFt	PCI: 71
Sample Comments:				
48	L & T CR	L	153.00	Ft
52	RAVELING	L	744.00	SqFt
52	RAVELING	M	32.00	SqFt
57	WEATHERING	L	2974.00	SqFt
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Sample Number: 156		Type: R	Area: 3862.00 SqFt	PCI: 51
Sample Comments:				
45	DEPRESSION	L	12.00	SqFt
45	DEPRESSION	M	24.00	SqFt
48	L & T CR	L	310.00	Ft
48	L & T CR	M	79.00	Ft
52	RAVELING	L	966.00	SqFt
52	RAVELING	M	18.00	SqFt
56	SWELLING	L	10.00	SqFt
57	WEATHERING	L	2878.00	SqFt
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Sample Number: 159		Type: R	Area: 3227.00 SqFt	PCI: 49
Sample Comments:				
48	L & T CR	L	194.00	Ft
48	L & T CR	M	60.00	Ft
50	PATCHING	M	25.00	SqFt
52	RAVELING	L	961.00	SqFt
56	SWELLING	L	500.00	SqFt
56	SWELLING	M	25.00	SqFt
57	WEATHERING	L	2241.00	SqFt
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Sample Number: 163		Type: R	Area: 3750.00 SqFt	PCI: 69
Sample Comments:				
48	L & T CR	L	115.00	Ft
52	RAVELING	L	3750.00	SqFt

Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT					
Branch:	RW 4-22		Name:	RUNWAY 4-22		Use:	RUNWAY	Area:	229,217 SqFt	
Section:	6310		of	2	From:	-		To:	-	
Surface:	AC		Family:	CA653-RL-RW-AC		Zone:			Category:	Rank: P
Area:	13,113 SqFt		Length:	160 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:	1/1/1965		Work Type: New Construction - Initial				Code:	NU-IN		Is Major M&R: True
Work Date:	1/1/2016		Work Type: Complete Reconstruction - AC				Code:	CR-AC		Is Major M&R: True
Last Insp. Date:	8/10/2022		TotalSamples:	2		Surveyed: 1				
Conditions:	PCI: 86									
Inspection Comments:										
Sample Number:	111		Type:	R		Area:	6444.00 SqFt		PCI:	86
Sample Comments:										
48	L & T CR		L	50.00 Ft						
57	WEATHERING		L	6122.00 SqFt						
57	WEATHERING		M	322.00 SqFt						

Network:	LNA	Name:	PALM BEACH COUNTY PARK AIRPORT								
Branch:	TW A	Name:	TAXIWAY A		Use:	TAXIWAY	Area:	110,651 SqFt			
Section:	310	of	1	From:	-	To:	-	Last Const.:	6/1/2007		
Surface:	AC	Family:	CA653-RL-TW-AC		Zone:		Category:		Rank:	P	
Area:	110,651 SqFt	Length:	2,868 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:	6/1/2007		Work Type:			New Construction - AC		Code:	NC-AC		
								Is Major M&R:			True
Last Insp. Date:	8/10/2022		TotalSamples:	30		Surveyed:					3
Conditions:	PCI:	74									
Inspection Comments:											
Sample Number:	302	Type:	R	Area:	3500.00 SqFt		PCI:	78			
Sample Comments:											
48	L & T CR	L	53.00 Ft								
52	RAVELING	L	525.00 SqFt								
57	WEATHERING	L	2975.00 SqFt								
Sample Number:	307	Type:	R	Area:	4115.00 SqFt		PCI:	73			
Sample Comments:											
48	L & T CR	L	156.00 Ft								
52	RAVELING	L	823.00 SqFt								
57	WEATHERING	L	3086.00 SqFt								
57	WEATHERING	M	206.00 SqFt								
Sample Number:	322	Type:	R	Area:	3500.00 SqFt		PCI:	71			
Sample Comments:											
48	L & T CR	L	49.00 Ft								
52	RAVELING	L	700.00 SqFt								
52	RAVELING	M	12.00 SqFt								
57	WEATHERING	L	2788.00 SqFt								

Network:	LNA	Name:		PALM BEACH COUNTY PARK AIRPORT					
Branch:	TW B	Name:		TAXIWAY B		Use:	TAXIWAY	Area:	116,584 SqFt
Section:	205	of	3	From:	-	To:	-	Last Const.:	1/1/1993
Surface:	AC	Family:	CA653-RL-TW-AC	Zone:		Category:		Rank: P	
Area:	99,105 SqFt	Length:		2,724 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:	1/1/1993	Work Type: BUILT				Code:	IMPORTED	Is Major M&R: True	
Last Insp. Date:	8/10/2022	TotalSamples:		27	Surveyed:		3		
Conditions:	PCI:	71							
Inspection Comments:									
Sample Number:	109	Type:	R	Area:		3500.00 SqFt	PCI:		71
Sample Comments:									
48	L & T CR	L	91.00	Ft					
52	RAVELING	L	525.00	SqFt					
57	WEATHERING	M	2975.00	SqFt					
Sample Number:	119	Type:	R	Area:		3500.00 SqFt	PCI:		71
Sample Comments:									
48	L & T CR	L	100.00	Ft					
52	RAVELING	L	525.00	SqFt					
57	WEATHERING	M	2975.00	SqFt					
Sample Number:	130	Type:	R	Area:		3500.00 SqFt	PCI:		71
Sample Comments:									
48	L & T CR	L	90.00	Ft					
52	RAVELING	L	700.00	SqFt					
57	WEATHERING	L	2100.00	SqFt					
57	WEATHERING	M	700.00	SqFt					

Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT									
Branch:	TW B		Name:	TAXIWAY B		Use:	TAXIWAY		Area:	116,584 SqFt				
Section:	207		of	3		From:	-		To:	-		Last Const.:	1/1/2016	
Surface:	AAC		Family:	CA653-RL-TW-AAC-APC		Zone:			Category:			Rank:	P	
Area:	5,659 SqFt		Length:	110 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:	1/1/1993		Work Type:	BUILT				Code:	IMPORTED		Is Major M&R:	True		
Work Date:	1/1/2016		Work Type:	Mill and Overlay				Code:	ML-OVL		Is Major M&R:	True		
Last Insp. Date: 8/10/2022														
Conditions:	PCI: 84		TotalSamples:	1		Surveyed:	1							
Inspection Comments:														
Sample Number:	103		Type:	R		Area:	5659.00 SqFt		PCI:	84				
Sample Comments:														
48	L & T CR		L	113.00 Ft										
57	WEATHERING		L	5376.00 SqFt										
57	WEATHERING		M	283.00 SqFt										

Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT				
Branch:	TW B		Name:	TAXIWAY B		Use:	TAXIWAY	Area:	116,584 SqFt
Section:	210	of	3	From:	-		To:	-	Last Const.: 7/12/2013
Surface:	AAC	Family:	CA653-RL-TW-AAC-APC	Zone:				Category:	Rank: P
Area:	11,820 SqFt		Length:	255 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:	1/1/1993		Work Type: New Construction - Initial				Code:	NU-IN	Is Major M&R: True
Work Date:	7/12/2013		Work Type: Mill and Overlay				Code:	ML-OVL	Is Major M&R: True
Last Insp. Date: 8/10/2022									
Conditions: PCI: 77			TotalSamples:	3		Surveyed: 1			
Inspection Comments:									
Sample Number:	101	Type:	R	Area:	3905.00 SqFt		PCI:	77	
Sample Comments:									
48	L & T CR		L	157.00 Ft					
57	WEATHERING		L	3319.00 SqFt					
57	WEATHERING		M	586.00 SqFt					

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT										
Branch:	TW B1		Name:	TAXIWAY B1		Use:	TAXIWAY		Area:	8,529 SqFt				
Section:	215		of	2		From:	-		To:	-		Last Const.:	1/1/1993	
Surface:	AC		Family:	CA653-RL-TW-AC		Zone:			Category:			Rank:	P	
Area:	3,442 SqFt		Length:	200 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:	1/1/1993		Work Type:	BUILT				Code:	IMPORTED		Is Major M&R:	True		
Last Insp. Date:	8/10/2022		TotalSamples:	1		Surveyed:	1							
Conditions:	PCI: 70													
Inspection Comments:														
Sample Number:	101		Type:	R		Area:	3442.00 SqFt		PCI:	70				
Sample Comments:														
48	L & T CR		L	90.00		Ft								
52	RAVELING		L	344.00		SqFt								
57	WEATHERING		M	3098.00		SqFt								

Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT							
Branch:	TW B1		Name:	TAXIWAY B1		Use:	TAXIWAY		Area:	8,529 SqFt		
Section:	217 of 2		From:	-			To:	-		Last Const.:	7/12/2013	
Surface:	AAC		Family:	CA653-RL-TW-AAC-APC		Zone:			Category:	Rank: P		
Area:	5,087 SqFt		Length:	200 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:	1/1/1993		Work Type:	New Construction - Initial				Code:	NU-IN		Is Major M&R:	True
Work Date:	7/12/2013		Work Type:	Mill and Overlay				Code:	ML-OVL		Is Major M&R:	True
Last Insp. Date:	8/10/2022		TotalSamples:	1		Surveyed:	1					
Conditions:	PCI: 85											
Inspection Comments:												
Sample Number:	100		Type:	R		Area:	5086.00 SqFt		PCI:	85		
Sample Comments:												
48	L & T CR		L	39.00 Ft								
57	WEATHERING		L	4577.00 SqFt								
57	WEATHERING		M	509.00 SqFt								

Network:	LNA	Name:	PALM BEACH COUNTY PARK AIRPORT						
Branch:	TW B2	Name:	TAXIWAY B2		Use:	TAXIWAY	Area:	9,653 SqFt	
Section:	220	of	2	From:	-	To:	-	Last Const.:	1/1/1993
Surface:	AC	Family:	CA653-RL-TW-AC		Zone:	Category:		Rank:	P
Area:	4,124 SqFt		Length:	200 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:	1/1/1993		Work Type: New Construction - Initial			Code:	NU-IN		Is Major M&R: True
Last Insp. Date:	8/10/2022		TotalSamples:	1		Surveyed:	1		
Conditions:	PCI:	69							
Inspection Comments:									
Sample Number:	101	Type:	R	Area:	4124.00 SqFt		PCI:	69	
Sample Comments:									
48	L & T CR		L	246.00 Ft					
52	RAVELING		L	824.00 SqFt					
52	RAVELING		M	5.00 SqFt					
57	WEATHERING		L	3295.00 SqFt					

Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT							
Branch:	TW B2		Name:	TAXIWAY B2		Use:	TAXIWAY		Area:	9,653 SqFt		
Section:	223 of 2		From:	-			To:	-		Last Const.:	7/12/2013	
Surface:	AAC		Family:	CA653-RL-TW-AAC-APC		Zone:				Category:	Rank: P	
Area:	5,529 SqFt		Length:	200 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:	1/1/1993		Work Type:	New Construction - Initial				Code:	NU-IN		Is Major M&R:	True
Work Date:	7/12/2013		Work Type:	Mill and Overlay				Code:	ML-OVL		Is Major M&R:	True
Last Insp. Date: 8/10/2022												
Conditions: PCI: 83			TotalSamples:	1		Surveyed: 1						
Inspection Comments:												
Sample Number:	100		Type:	R		Area:	5529.00 SqFt		PCI:	83		
Sample Comments:												
48	L & T CR		L	99.00 Ft								
57	WEATHERING		L	4700.00 SqFt								
57	WEATHERING		M	829.00 SqFt								



Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT						
Branch:	TW D		Name:	TAXIWAY D		Use:	TAXIWAY	Area:	14,739 SqFt		
Section:	120 of 2		From:	-			To:	-		Last Const.:	1/1/2016
Surface:	AAC		Family:	CA653-RL-TW-AAC-APC		Zone:				Rank:	P
Area:	5,048 SqFt		Length:	90 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:	1/1/1964		Work Type: New Construction - Initial				Code:	NU-IN		Is Major M&R:	True
Work Date:	1/1/2016		Work Type: Mill and Overlay				Code:	ML-OVL		Is Major M&R:	True
Last Insp. Date: 8/10/2022											
Conditions:	PCI: 87		TotalSamples:		1		Surveyed: 1				
Inspection Comments:											
Sample Number:	300		Type:	R		Area:	5048.00 SqFt		PCI:	87	
Sample Comments:											
48	L & T CR		L	25.00 Ft							
57	WEATHERING		L	4796.00 SqFt							
57	WEATHERING		M	252.00 SqFt							

Network:	LNA			Name:	PALM BEACH COUNTY PARK AIRPORT				
Branch:	TW D		Name:	TAXIWAY D		Use:	TAXIWAY	Area:	14,739 SqFt
Section:	125	of	2	From:	-	To:	-	Last Const.:	7/12/2013
Surface:	AAC	Family:	CA653-RL-TW-AAC-APC	Zone:		Category:		Rank:	P
Area:	9,691 SqFt	Length:	231 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:	1/1/1964	Work Type:	New Construction - Initial			Code:	NU-IN	Is Major M&R:	True
Work Date:	7/12/2013	Work Type:	Mill and Overlay			Code:	ML-OVL	Is Major M&R:	True
Last Insp. Date: 8/10/2022									
TotalSamples:		3	Surveyed: 1						
Conditions:	PCI:	74							
Inspection Comments:									
Sample Number:	302	Type:	R	Area:	3003.00 SqFt	PCI:	74		
Sample Comments:									
45	DEPRESSION	L	60.00	SqFt					
48	L & T CR	L	105.00	Ft					
57	WEATHERING	L	2553.00	SqFt					
57	WEATHERING	M	450.00	SqFt					

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT							
Branch:	TW E		Name:	TAXIWAY E		Use:	TAXIWAY	Area:	16,849 SqFt		
Section:	103	of 1	From:	-			To:	-		Last Const.:	1/1/2007
Surface:	AC	Family:	CA653-RL-TW-AC		Zone:		Category:		Rank:	P	
Area:	16,849 SqFt	Length:	270 Ft		Width:	60 Ft					
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:		Street Type:			Grade:	0		Lanes:	0		
Section Comments:											
Work Date:	1/1/1964		Work Type:	New Construction - Initial			Code:	NU-IN		Is Major M&R:	True
Work Date:	1/1/2007		Work Type:	Complete Reconstruction - AC			Code:	CR-AC		Is Major M&R:	True
Last Insp. Date: 8/10/2022											
TotalSamples: 3											
Surveyed: 1											
Conditions: PCI: 76											
Inspection Comments:											
Sample Number:	101	Type:	R	Area:	6000.00 SqFt		PCI:	76			
Sample Comments:											
48	L & T CR		L	132.00 Ft							
52	RAVELING		L	1200.00 SqFt							
57	WEATHERING		L	4800.00 SqFt							

Network:	LNA		Name:	PALM BEACH COUNTY PARK AIRPORT							
Branch:	TW P		Name:	TAXIWAY P		Use:	TAXIWAY	Area:	12,354 SqFt		
Section:	115	of 1	From:	-			To:	-	Last Const.:	6/1/2007	
Surface:	AC	Family:	CA653-RL-TW-AC		Zone:		Category:		Rank:	P	
Area:	12,354 SqFt	Length:	267 Ft		Width:	67 Ft					
Slabs:		Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:		Street Type:			Grade:	0		Lanes:	0		
Section Comments:											
Work Date:	1/1/1964		Work Type:	BUILT			Code:	IMPORTED		Is Major M&R:	True
Work Date:	6/1/2007		Work Type:	Complete Reconstruction - AC			Code:	CR-AC		Is Major M&R:	True
Last Insp. Date: 8/10/2022											
TotalSamples: 3											
Surveyed: 1											
Conditions: PCI: 76											
Inspection Comments:											
Sample Number:	100	Type:	R	Area:	4349.00 SqFt		PCI:	76			
Sample Comments:											
45	DEPRESSION	L	34.00	SqFt							
48	L & T CR	L	22.00	Ft							
52	RAVELING	L	435.00	SqFt							
57	WEATHERING	L	3914.00	SqFt							



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