

# 2012 Valdosta Regional Airport Pavement Management Plan

*Preserving Georgia's Critical Airport Pavement Infrastructure*





# Acknowledgement

This document was produced under the auspices of the  
**GEORGIA DEPARTMENT OF TRANSPORTATION**

Keith Golden, PE, Commissioner  
Russell McMurry, PE, Chief Engineer

## **DIVISION OF INTERMODAL**

Carol L. Comer, Director

## **GEORGIA STATEWIDE PAVEMENT MANAGEMENT STUDY**

Carla Sands, Project Manager

## **STATE TRANSPORTATION BOARD**

1st District – Jay Shaw, Vice Chairman  
2nd District – Johnny Floyd, Chairman  
3rd District – Sam Wellborn  
4th District – Robert L. Brown, Jr.  
5th District – Emory C. McClinton  
6th District – Brandon L. Beach  
7th District – Rudy Bowen

8th District – Jim Cole  
9th District – Emily Dunn  
10th District – Don Grantham  
11th District – Jeff Lewis  
12th District – Bobby Parham  
13th District – Dana Lemon



The preparation of this report was financed in part through a planning grant from the Federal Aviation Administration (FAA) as provided under Section 505 of the Airport and Airway Improvement Act of 1982. The contents of this report do not necessarily reflect the views or policy of the USDOT or the FAA, and do not constitute a commitment on the part of the United States to participate in any development depicted therein, nor does it indicate that the proposed development is environmentally acceptable in accordance with applicable public laws.

# VALDOSTA REGIONAL AIRPORT

## PAVEMENT MANAGEMENT REPORT



### Prepared By:

Applied Pavement Technology, Inc.  
115 West Main Street, Suite 400  
Urbana, Illinois 61801  
217-398-3977  
[www.appliedpavement.com](http://www.appliedpavement.com)



### In Association With:

CDM Smith  
3715 Northside Parkway NW  
Building 300, Suite 400  
Atlanta, Georgia 30327



### Prepared For:

Georgia Department of Transportation  
Aviation Programs  
600 West Peachtree Street, NW  
Atlanta, GA 30308  
404-631-1000  
<http://www.dot.ga.gov>

**DECEMBER 2012**

## TABLE OF CONTENTS

INTRODUCTION.....	1
METHODOLOGY.....	3
Records Review and Network Definition.....	3
Pavement Evaluation Procedure.....	3
Paint Markings Evaluation Procedure.....	6
Development of Maintenance and Rehabilitation Program.....	6
Analysis Parameters.....	6
Critical PCI Values.....	6
Budget and Inflation Rate.....	6
Maintenance Policies.....	7
Unit Costs.....	7
Analysis Approach.....	7
RESULTS.....	8
Pavement Inventory.....	8
Pavement Evaluation and Paint Assessment.....	10
Inspection Comments.....	10
Runways.....	10
Taxiways.....	10
Aprons.....	11
T-Hangars.....	12
Overall Condition.....	12
Maintenance and Rehabilitation Program.....	17
GENERAL RECOMMENDATIONS.....	20
Maintenance.....	20
Remaining in Compliance with Public Law 103-305.....	20
SUMMARY.....	21

## LIST OF FIGURES

Figure 1. Pavement Condition versus Cost of Repair.....	1
Figure 2. Visual Representation of PCI Scale.....	4
Figure 3. PCI versus Repair Type.....	5
Figure 4. Pavement Inventory.....	8
Figure 5. Network Definition Map.....	9
Figure 6. Condition Distribution.....	13
Figure 7. Condition by Use.....	13
Figure 8. PCI Map.....	14



## LIST OF TABLES

Table 1. Critical PCI Values. ....	6
Table 2. Pavement Evaluation Results.....	15
Table 3. 5-Year Program under an Unlimited Funding Analysis Scenario.....	18

## APPENDICES

Appendix A – Cause Of Distress Tables .....	A-1
Appendix B – Photographs.....	B-1
Appendix C – Inspection Report.....	C-1
Appendix D – Maintenance Policies and Unit Costs .....	D-1
Appendix E – Maintenance Plan Organized By Section.....	E-1
Appendix F – Maintenance Plan Organized By Repair Type .....	F-1

## INTRODUCTION

In 2012, the Georgia Department of Transportation – Aviation Programs (the Department), selected Applied Pavement Technology, Inc. (APTech), assisted by CDM Smith, to update its statewide airport pavement management system (APMS). This study will provide airports and the State with pavement information and analytical tools to help identify pavement related needs, optimize selection of individual airport projects over a multi-year period, and evaluate the long-term impacts of project priorities.

As part of this study, pavement conditions at Valdosta Regional Airport were assessed in 2012 using the pavement condition index (PCI) procedure. The results of that evaluation are presented within this report and can be used by the Department, the Federal Aviation Administration (FAA), and Valdosta Regional Airport to monitor the condition of airfield pavements and to identify, prioritize, and schedule pavement maintenance and rehabilitation (M&R) actions at the airport.

During a PCI inspection, the types, severities, and amounts of distress present in a pavement are visually quantified. This information is then used to develop a composite index that represents the overall condition of the pavement in numerical terms, ranging from 0 (failed) to 100 (excellent). The PCI number is a measure of overall condition and is indicative of the level of work that will be required to maintain or repair a pavement. Further, the information provides insight into the cause of pavement deterioration, which is the first step in selecting the appropriate repair action.

Programmed into an APMS, PCI information is used to determine when preventive maintenance actions, such as crack sealing, are advisable and also identifies the most cost-effective time to perform major rehabilitation, such as an overlay. The importance of identifying not only the type of repair but also the optimal time of repair is illustrated in Figure 1. There is a point in a pavement's life cycle where the rate of deterioration increases and the financial impact of delaying repairs beyond this point can be severe.

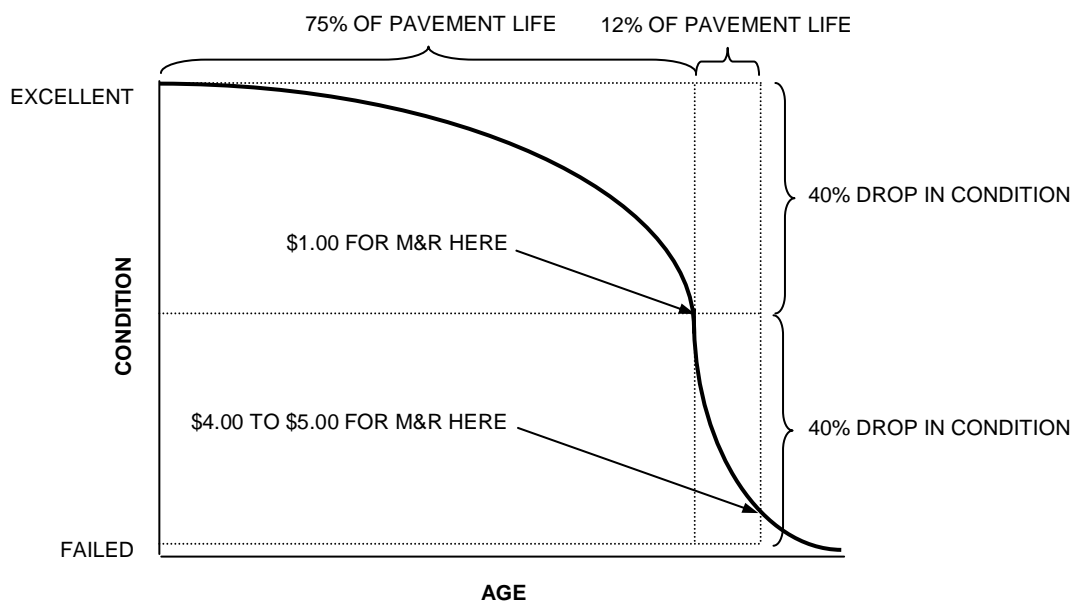


Figure 1. Pavement Condition versus Cost of Repair.



This study collected pavement history information, developed CAD maps, evaluated current pavement condition, and updated the Department's APMS. The APMS was used to prepare a 5-year pavement M&R program. Individual reports, such as this one, have been prepared for each individual airport as well as a statewide analysis report and an executive summary report in order to convey the study results.

---

## METHODOLOGY

The study consists of three major work elements: records review and network definition; pavement condition evaluation; and the development of an M&R plan for the preservation of the pavement infrastructure. Detail of each work element is further described below.

### Records Review and Network Definition

The first activities undertaken involved gathering historical airfield pavement data, which includes date of original construction and date of any subsequent rehabilitation; location of completed work; and the type of work undertaken.

The historical data is used to divide the pavement system into management units – branches, sections, and sample units. A branch is a single entity that serves a distinct function. For example, a runway is considered a branch because it serves a single function (allowing aircraft to take off and land). Taxiways and aprons are also separate branches.

A branch is further divided into sections. A section is considered the management unit of the APMS, and represents a pavement area where pavement maintenance or rehabilitation would be undertaken. For example, if a runway was built in 1968 and then extended and overlaid in 1984, this runway might be represented by a single section, even though there are two distinct construction periods. However, if the condition of one part of the runway was significantly different than another the branch would be divided into two sections because in that situation the runway may not be repaired as a whole in the future.




To estimate the overall condition of each pavement section, each section is subdivided into sample units. A percentage of these sample units are then evaluated during pavement inspections, and the condition information is extrapolated to predict the condition of the section as a whole.

### Pavement Evaluation Procedure

Pavements were evaluated at Valdosta Regional Airport using the PCI procedure. This procedure is described in FAA Advisory Circular (AC) 150/5380-6B, *Guidelines and Procedures for Maintenance of Airport Pavements* and American Society for Testing and Material (ASTM) Standard D5340-11, *Standard Test Method for Airport Pavement Condition Index Surveys*.

The PCI provides a numerical indication of overall pavement condition, as illustrated in Figure 2. The types and amounts of deterioration are used to calculate the PCI value of the section. The PCI ranges from 0 to 100, with 100 representing a pavement in excellent condition. It should be noted that a PCI value is based on visual signs of pavement deterioration and does not provide a measure of structural capacity.



Typical Pavement Surface <sup>1</sup>	PCI
	100
	60
	20

<sup>1</sup>Photographs shown are not specific to Valdosta Regional Airport.

Figure 2. Visual Representation of PCI Scale.

In general terms, pavements with a PCI greater than 70 that are not exhibiting significant load-related distress will benefit from preventive maintenance actions, such as crack sealing and surface treatments. Pavements with a PCI of 40 to 70 may require major rehabilitation, such as an overlay. Often, when the PCI is less than 40, reconstruction is the only viable alternative due to the substantial damage to the pavement structure. Figure 3 illustrates how repair type varies with the PCI of a pavement section.

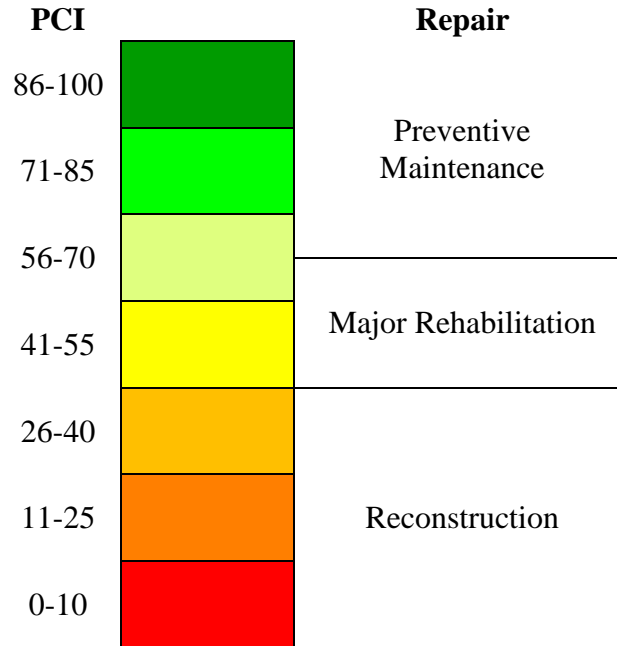


Figure 3. PCI versus Repair Type.

The types of distress identified during the PCI inspection provide insight into the cause of pavement deterioration. PCI distress types are characterized as:

- **Load-related** – These distress types are defined as being caused by aircraft or vehicular traffic and may provide an indication of a structural deficiency. Examples of load-related distresses include alligator cracking on hot-mix asphalt (HMA) pavements and corner breaks on portland cement concrete (PCC) pavements,
- **Climate/durability-related** – These distress types often signify the presence of aged and/or environment-susceptible material and include durability-related issues. Examples of climate/durability-related distresses include weathering, which is climate-related, on HMA pavements and durability cracking, which is durability-related, on PCC pavements, and
- **Other** – Distress types that fall into this category cannot be attributed solely to load or climate/durability. Examples of this type of distress include depressions on HMA pavements and shrinkage cracking on PCC pavements.

Understanding the cause of distress helps in selecting a rehabilitation alternative that corrects the cause and thus eliminates its recurrence.

Appendix A contains tables for asphalt and PCC pavements indicating the typical types of distresses that may be identified during a PCI survey, the likely cause of each distress type, and feasible maintenance strategies for addressing each distress type.



## Paint Markings Evaluation Procedure

The condition of the paint markings was evaluated for each section at Valdosta Regional Airport. The markings were rated as “satisfactory” or “non-satisfactory” based on whether the markings were visible and the paint and reflectivity appeared intact. Following is a short description of each category:

- Not Applicable (N/A): No paint markings exist to rate.
- Satisfactory (SAT): Markings that are still visible and in good condition, requiring no maintenance or remarking.
- Non-satisfactory: Markings that require maintenance or remarking in the near future and any of the following conditions are present:
  - Paint is faded to the point where markings are not easily visible from a distance (U-FA).
  - Paint is flaking off the surface or has worn to point that portions of the painted surface no longer have paint on them (U-CH).
  - Painted areas have a large amount of superficial cracking within their limits, degrading the integrity of the painted area and reducing its visibility (U-CR).

## Development of Maintenance and Rehabilitation Program

Using the information collected during the 2012 pavement inspection, an M&R program for 2013 through 2017 was developed. The MicroPAVER™ pavement management software was used to perform this analysis.

### Analysis Parameters

Several parameters were defined prior to running the analysis, and are further explained below.

#### *Critical PCI Values*

MicroPAVER™ uses critical PCI values to determine whether preventive maintenance or major rehabilitation is the appropriate repair action. Above the critical PCI, localized (such as crack sealing) and global (such as a slurry seal) preventive maintenance activities are recommended. Below the critical PCI, major rehabilitation (such as an overlay or reconstruction) is recommended. The Department set the critical PCI values shown in Table 1.

Table 1. Critical PCI Values.

<b>Airport Classification</b>	<b>Runway</b>	<b>Taxiway/ T-Hangar</b>	<b>Apron/Helipad</b>
General Aviation	70	60	60
Commercial Service	75	65	65

#### *Budget and Inflation Rate*

An unlimited budget and an inflation rate of 3 percent were used during the analysis.

### *Maintenance Policies*

Localized preventive maintenance policies and global preventive maintenance policies were developed for the Department. Localized maintenance policies, shown in Appendix D, identify the localized maintenance actions that the Department consider appropriate to correct different distress types when the PCI of the pavement is above the critical PCI level.

Global maintenance actions were also considered in the analysis. These are treatments that are applied over an entire section, rather than just to distressed areas. Rejuvenators were considered for pavements that are more than 5 years old with a PCI value greater than 80. Rejuvenators were only applied once during the analysis period to eligible sections.

### *Unit Costs*

Unit costs for maintenance treatments and major rehabilitation actions are presented in Appendix D. For general aviation airports, the costs were separated by geographic regions. MicroPAVER™ estimates the cost of major rehabilitation based on the PCI of the pavement. If major rehabilitation is recommended in the program, further engineering investigation will be needed to identify the most appropriate rehabilitation action and to more accurately estimate the cost of such work.

### Analysis Approach

The goal of the M&R program is to maintain the pavements above established critical PCI values. Major rehabilitation was recommended for pavements in the year they dropped below their critical PCI value for 2013 through 2017.

For 2013, a localized preventive maintenance plan was developed for those pavement sections that were above their critical PCI value. If major rehabilitation was triggered for a section in 2014 or 2015, then localized maintenance was not recommended for 2013. It was assumed that all low-severity cracking would need to be resealed in 2017 unless major rehabilitation was triggered on the section. No other maintenance activities, other than crack sealing, were considered for year 2017.

# RESULTS

## Pavement Inventory

Valdosta Regional Airport has over 3,752,250 square feet of pavement, as shown in Figure 4. Figure 5 is a network definition map of the airport showing the pavement system broken down into management units, as described on page 3 of this report. It also shows the nomenclature used in the MicroPAVER™ pavement management database to identify the different pavement areas. Additionally, the map summarizes the construction history information compiled during the records review and identifies the areas inspected during the visual survey.

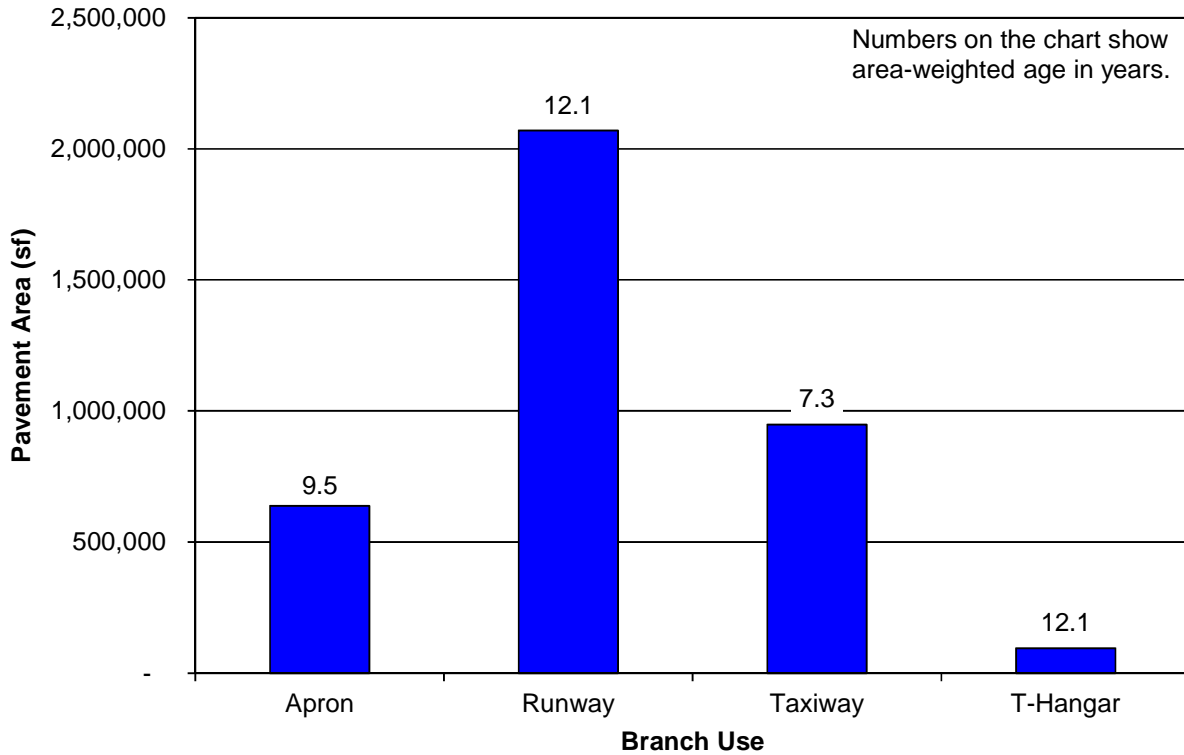
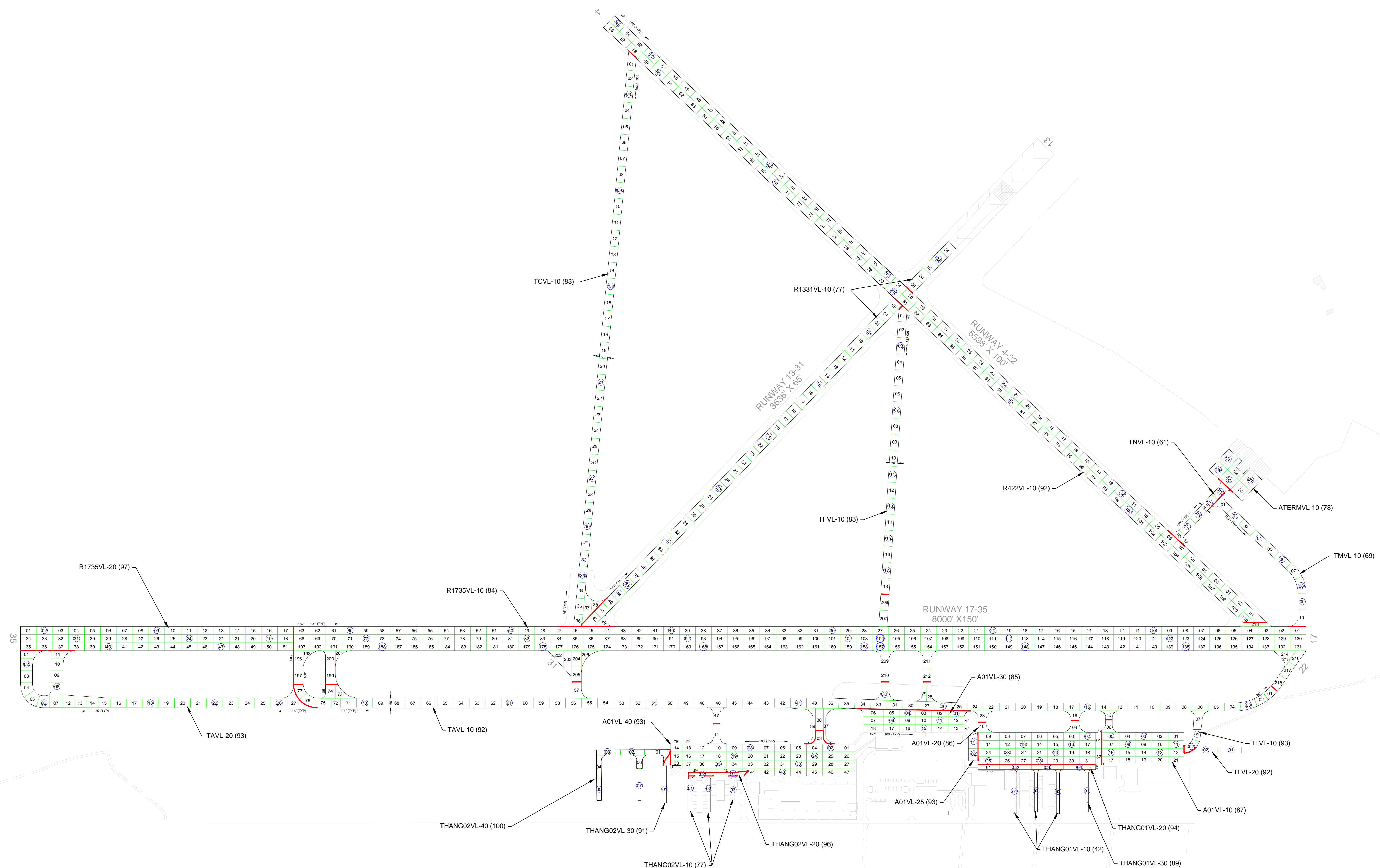
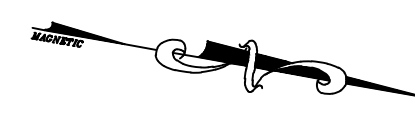


Figure 4. Pavement Inventory.



**NETWORK DEFINITION LEGEND**

- BRANCH IDENTIFIER
- SECTION IDENTIFIER
- PCI VALUE
- SECTION BREAK LINE
- SAMPLE UNIT BREAK LINE
- SLAB JOINT
- SAMPLE UNIT NUMBER
- SAMPLE UNIT INSPECTED
- ADDITIONAL SAMPLE UNIT

**applied pavement TECHNOLOGY**  
 115 W. Main Street, Suite 400  
 Urbana, IL 61801  
 Tel: (217) 398-3977  
 Fax: (217) 398-4027

AGENCY: Georgia Department of Transportation			
Aviation Programs			
LOCATION: Valdosta Regional Airport			
Valdosta, GA			
PAGE TITLE: NETWORK DEFINITION MAP			
PROJECT DATE: NOV. 2011	CREATION DATE: NOV. 2011	PROJECT MANAGER: MRC	JOB NUMBER: 09-067-AM01
DRAWING SCALE: 1" = 300'	LAST MODIFIED DATE: APR. 2012	REVISED BY: TMM	DRAWN BY: DSP
FILENAME: Valdosta.dwg		LAYOUT NAME/NUMBER: NET. DEF.	FIGURE: 5



---

## **Pavement Evaluation and Paint Assessment**

The inspection of Valdosta Regional Airport was completed on February 15, 2012 using the PCI procedure described previously. The map presented in Figure 5 identifies the sample units inspected during the pavement evaluation.

### Inspection Comments

There were twenty-five pavement sections defined during the inspection. All low-severity cracking was unsealed; most medium-severity cracking was due to either unsealed crack widths that exceeded  $\frac{1}{4}$  in or to the development of secondary cracking. Evidence of inadequate drainage and shallow depressions were noted throughout the airport, particularly on the apron areas.

### *Runways*

#### **Runway 13-31**

Runway 13-31 consisted of one section with a PCI value of 77. The primary distress identified in Section 10 was low-severity longitudinal and transverse (L&T) cracking, with a smaller amount of medium-severity L&T cracking. Low-severity weathering was recorded throughout the entire section. Significant amounts of roller checking were also noted, and much of the cracking recorded was roller checking that had opened up. One additional sample unit was identified in accordance with ASTM D5340 that contained a low-severity depression and an isolated area of bleeding.

#### **Runway 17-35**

Runway 17-35 was defined by two sections. Section 10 had a PCI of 84 with moderate quantities of low-severity L&T cracking and a small amount of medium-severity L&T cracking observed. Small amounts of low- and medium-severity weathering were also identified. In accordance with ASTM D5340, two additional sample units were recorded that contained low-severity patching. Section 20 was in excellent condition with a PCI of 97. Only a small amount of low-severity L&T cracking was noted. In both sections on this runway, most of the L&T cracking was observed at the paving lane joints.

#### **Runway 4-22**

Runway 4-22 contained one section with a PCI value of 92. Moderate amounts of low-severity L&T cracking and weathering were recorded along with small amounts of bleeding and medium-severity weathering. At the south end of the runway, an area of depression was noted which was not deep enough to be recorded.

### *Taxiways*

#### **Taxiway A**

Taxiway A was comprised of two sections. Section 10 had a PCI of 92 with the primary distress recorded being low-severity L&T cracking. A moderate amount of low-severity weathering was also observed, as well as small areas of bleeding and medium-severity weathering. Section 20 had a PCI of 93. A small amount of low-severity L&T cracking was identified along with moderate quantities of low-severity weathering.

---

### **Taxiway C**

Taxiway C consisted of one section with a PCI value of 83. Moderate quantities of low-severity L&T cracking were recorded. Low-severity weathering was observed over half of the area along with a small area of medium-severity weathering. A small amount of low-severity patching was also noted.

### **Taxiway F**

Taxiway F was comprised of one section. Section 10 had a PCI of 83. Moderate amounts of low-severity L&T cracking and a small amount of medium-severity L&T cracking were identified in this section. Low-severity weathering was also recorded. Roller checking was noted in parts of Section 10.

### **Taxiway L**

Taxiway L was defined by two sections. Section 10 had a PCI of 93 and Section 20 had a PCI of 92. Both sections had small to moderate amounts of low-severity L&T cracking and weathering observed throughout.

### **Taxiway M**

Taxiway M consisted of one section. Section 10 had a PCI of 69. Typical distresses recorded in this section were low-severity L&T cracking and weathering. At the south end of Section 10, there were moderate amounts of both low- and medium-severity alligator cracking.

### **Taxiway N**

Taxiway N was comprised of one section with a PCI of 61. Extensive quantities of low-severity L&T cracking were observed along with a moderate amount of medium-severity L&T cracking. Low-severity weathering was recorded over approximately half of the section. A small area of medium-severity weathering was also identified, as well as a small area of bleeding.

### *Aprons*

#### **Terminal Apron**

The terminal apron (ATERMVL) was defined by one section with a PCI of 78. Distresses recorded in Section 10 included low-severity alkali silica reaction (ASR), shrinkage cracking, and low-severity joint seal damage.

#### **FBO Apron**

The FBO apron area (A01VL) consisted of five sections. Section 10 had a PCI of 87 and moderate amounts of low-severity L&T cracking, weathering, and depression. Section 20 had a PCI of 86. Moderate to extensive quantities of low-severity L&T cracking and weathering were observed. Section 25 had a PCI of 93 and contained moderate areas of low-severity weathering along with a small amount of low-severity L&T cracking. Section 30 had a PCI of 85 with moderate to extensive quantities of low-severity L&T cracking and weathering identified. Section 40 had a PCI of 93. Moderate amounts of low-severity weathering and small quantities of low-severity L&T cracking and raveling were recorded in this section. Sections 10, 20, and 40 had isolated areas that had been treated with a thin surface treatment, possibly a coal tar, where the airplane tie-downs are located.

---

## *T-Hangars*

### **North T-Hangars**

This T-Hangar area (THANG01VL) was comprised of three sections and was located at the north end of the FBO apron. Section 10 had a PCI of 42 with medium-severity block cracking and low- and medium-severity weathering recorded throughout. Section 20 had a PCI of 94. A moderate amount of low-severity weathering and a very small amount of low-severity L&T cracking were observed. Section 30 had a PCI of 89 with low-severity weathering identified over the entire section along with a small amount of low-severity L&T cracking.

### **South T-Hangars**

This area of T-Hangar taxiways (THANG02VL) consisted of four sections and was located at the south end of the FBO apron. Section 10 had a PCI of 77 with low-severity weathering, L&T cracking, and patching recorded. Section 20 was in excellent condition with a PCI of 96. A moderate amount of low-severity weathering was identified along with a small quantity of low-severity L&T cracking. Section 30, with a PCI of 91, had both extensive areas of low-severity weathering and a small amount of low-severity L&T cracking. Section 40 was in excellent condition with a PCI of 100. No distresses were observed at the time of inspection.

### **Overall Condition**

The 2012 area-weighted condition of Valdosta Regional Airport is 87, with conditions ranging from 42 to 100 [on a scale of 0 (failed) to 100 (excellent)]. This compares to a 2007 PCI of 90.

Figures 6 and 7 provide graphs summarizing the overall condition of the pavements at Valdosta Regional Airport. Figure 8 is a map that displays the condition of the pavements evaluated. Table 2 summarizes the results of the pavement evaluation and paint assessment and also presents both the 2007 and 2012 PCI values. Please note that modifications have been made to the PCI methodology since the time of the last pavement inspection in 2007, as detailed in ASTM 5340-11. These changes include the separation of the raveling and weathering distress type on asphalt-surfaced pavements into two distress types along with the addition of the alkali silica reaction (ASR) distress type on PCC pavements.

Appendix B presents photographs taken during the PCI inspection, and Appendix C contains a detailed inspection report. The detailed inspection report provides information on the quantity of the different types and severities of distresses observed during the visual survey.

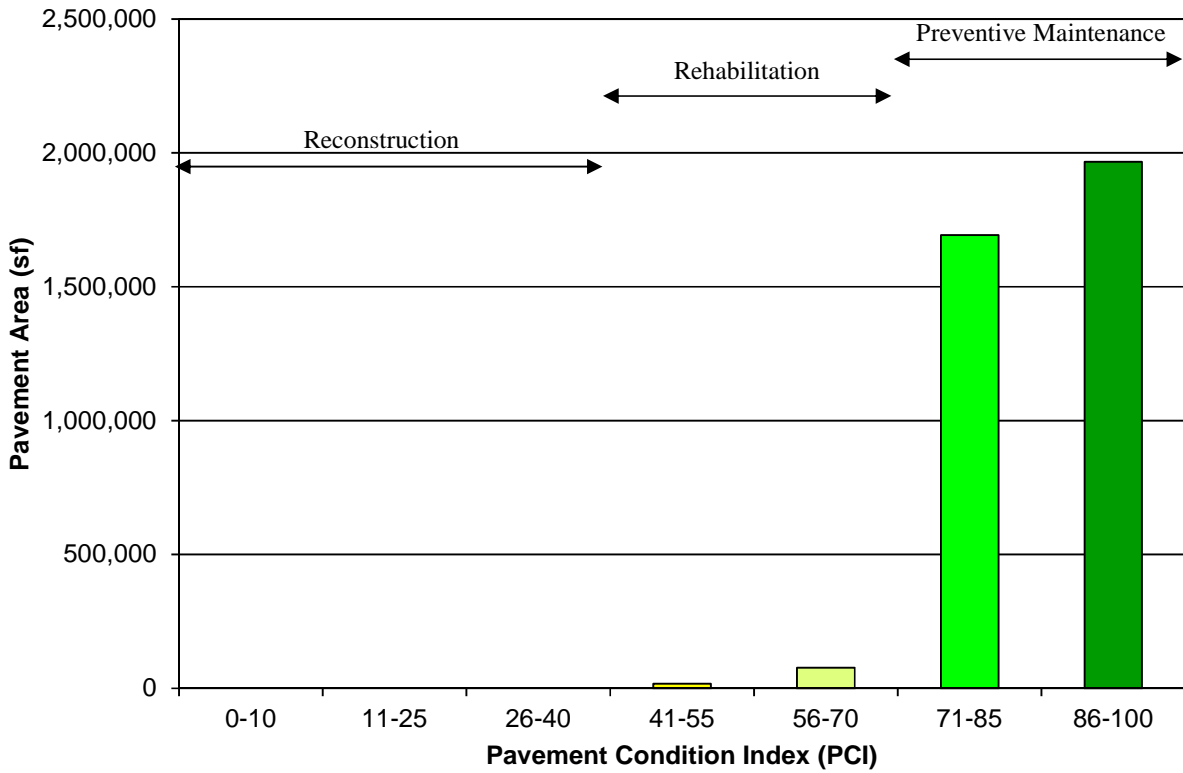


Figure 6. Condition Distribution.

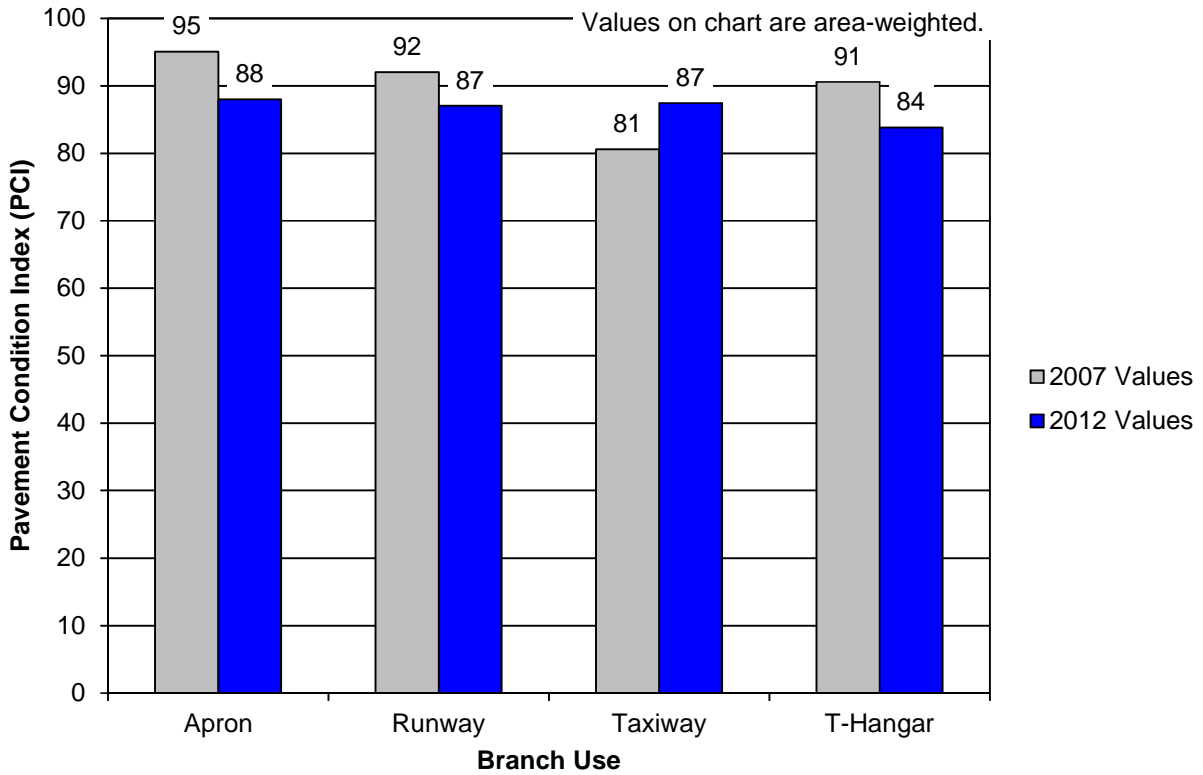
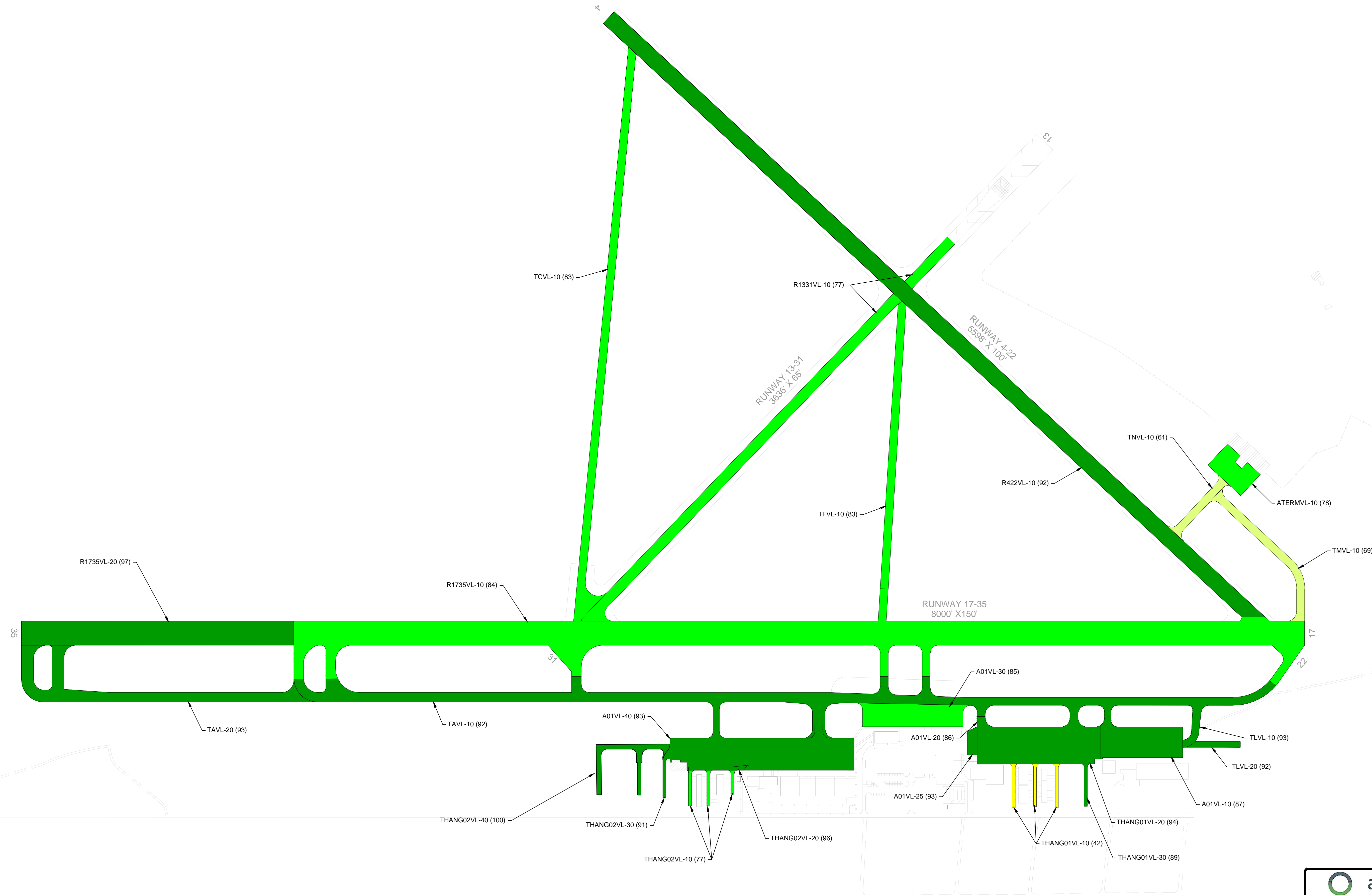


Figure 7. Condition by Use.





**LEGEND**

BRANCH IDENTIFIER  
 SECTION IDENTIFIER  
 PCI VALUE  
 SECTION BREAK LINE

**PAVEMENT CONDITION INDEX**

100	REPAIR
85	PREVENTIVE MAINTENANCE
70	MAJOR REHABILITATION
55	RECONSTRUCTION
40	
25	
10	
0	

**applied pavement TECHNOLOGY**  
 115 W. Main Street, Suite 400  
 Urbana, IL 61801  
 Tel: (217) 398-3977  
 Fax: (217) 398-4027

AGENCY: Georgia Department of Transportation  
 Aviation Programs

LOCATION: Valdosta Regional Airport  
 Valdosta, GA

PAGE TITLE: PAVEMENT CONDITION INDEX MAP

PROJECT DATE: NOV. 2011	CREATION DATE: NOV. 2011	PROJECT MANAGER: MRC	JOB NUMBER: 09-067-AM01
DRAWING SCALE: 1" = 300'	LAST MODIFIED DATE: MAY 2012	REVISED BY: TMM	DRAWN BY: TMM
FILENAME: Valdosta.dwg	LAYOUT NAME/NUMBER: PCI	FIGURE: 8	

Table 2. Pavement Evaluation Results.

Branch <sup>1</sup>	Section <sup>1</sup>	Surface Type <sup>2</sup>	Section Area (sf)	LCD <sup>3</sup>	Paint Markings <sup>4</sup>	2007 PCI	2012 PCI	% Distress due to:		Distress Types <sup>7</sup>
								Load <sup>5</sup>	Climate or Durability <sup>6</sup>	
A01VL	10	AAC	101,744	6/1/2003	U-FA	99	87	0	96	Depression, L&T Cracking, Weathering
A01VL	20	AAC	163,870	6/1/2003	U-FA	97	86	0	100	L&T Cracking, Weathering
A01VL	25	AC	9,778	6/1/2003	N/A	100	93	0	100	L&T Cracking, Weathering
A01VL	30	AAC	88,850	6/1/2003	SAT	94	85	0	100	L&T Cracking, Weathering
A01VL	40	AAC	226,708	6/1/2003	SAT	95	93	0	100	L&T Cracking, Raveling, Weathering
ATERMVL	10	PCC	47,310	6/1/1996	SAT	81	78	0	8	ASR, Joint Seal Damage, Shrinkage Cracking
R1331VL	10	AAC	204,100	6/1/1998	SAT	86	77	0	99	Bleeding, Depression, L&T Cracking, Weathering
R1735VL	10	AAC	1,061,149	6/1/2001	SAT	94	84	0	100	L&T Cracking, Patching, Weathering
R1735VL	20	AC	254,700	7/31/2005	SAT	100	97	0	100	L&T Cracking
R422VL	10	AAC	549,025	6/1/1996	SAT	87	92	0	93	Bleeding, L&T Cracking, Weathering
TAVL	10	AC	418,162	8/3/2008	SAT	58	92	0	100	Bleeding, L&T Cracking, Weathering
TAVL	20	AC	156,487	7/30/2005	SAT	100	93	0	100	L&T Cracking, Weathering
TCVL	10	AAC	189,356	6/1/2002	U-FA	99	83	0	100	L&T Cracking, Patching, Weathering
TFVL	10	AAC	89,335	6/1/2002	U-FA	95	83	0	100	L&T Cracking, Weathering
THANG01VL	10	AC	16,775	6/1/1985	SAT	72	42	0	100	Block Cracking, Weathering
THANG01VL	20	AAC	21,960	6/1/2003	U-FA	100	94	0	100	L&T Cracking, Weathering
THANG01VL	30	AC	5,472	6/1/2003	SAT	98	89	0	100	L&T Cracking, Weathering

Table 2. Pavement Evaluation Results (continued).

Branch <sup>1</sup>	Section <sup>1</sup>	Surface Type <sup>2</sup>	Section Area (sf)	LCD <sup>3</sup>	Paint Markings <sup>4</sup>	2007 PCI	2012 PCI	% Distress due to:		Distress Types <sup>7</sup>
								Load <sup>5</sup>	Climate or Durability <sup>6</sup>	
THANG02VL	10	AC	12,667	6/1/1988	SAT	84	77	0	100	L&T Cracking, Patching, Weathering
THANG02VL	20	AAC	7,575	6/1/2003	SAT	100	96	0	100	L&T Cracking, Weathering
THANG02VL	30	AC	7,998	6/1/2003	SAT	100	91	0	100	L&T Cracking, Weathering
THANG02VL	40	AC	24,000	2/27/2011	SAT	N/A	100	0	0	No Distresses
TLVL	10	AAC	7,813	6/1/2003	SAT	100	93	0	100	L&T Cracking, Weathering
TLVL	20	AC	11,051	6/3/2003	U-FA	100	92	0	100	L&T Cracking, Weathering
TMVL	10	AC	52,089	6/1/1996	SAT	94	69	51	49	Alligator Cracking, L&T Cracking, Weathering
TNVL	10	AC	24,276	6/1/1996	SAT	92	61	0	99	Bleeding, L&T Cracking, Weathering

**NOTES:**

<sup>1</sup>See Figure 5 for the location of the branch and section.

<sup>2</sup>AC = asphalt cement concrete; AAC = asphalt overlay on AC; PCC = portland cement concrete; APC = asphalt overlay on PCC.

<sup>3</sup>LCD = last construction date.

<sup>4</sup>Paint markings condition: not applicable (N/A), satisfactory (SAT), unsatisfactory due to faded paint (U-FA), unsatisfactory due to chipping paint (U-CH), or unsatisfactory due to superficial cracking (U-CR).

<sup>5</sup>Distress due to load includes distresses attributed to a structural deficiency in the pavement, such as alligator (fatigue) cracking, rutting, or shattered concrete slabs.

<sup>6</sup>Distress due to climate or durability includes those distresses attributed to either the aging of the pavement and the effects of the environment (such as weathering or block cracking in AC pavements) or to a materials-related problem (such as durability cracking in a PCC pavement).

<sup>7</sup>L&T Cracking = longitudinal and transverse cracking.

---

## Maintenance and Rehabilitation Program

The 5-year M&R program developed for Valdosta Regional Airport is described on page 6 of this report.

A summary of the M&R program is presented in Table 3. Detailed information on the localized maintenance plan for 2013 is contained in Appendix E and Appendix F. While localized preventive maintenance should be an annual undertaking at Valdosta Regional Airport, it is not possible to accurately predict the propagation of cracking and other distresses. The airport should budget for maintenance every year and can use the 2013 maintenance plan as a baseline for that work. As the pavements age, it can be assumed that the amount of localized maintenance required will increase.

Because an unlimited budget was used in the analysis, it is probable that the pavement repair program will need to be adjusted to take into account economic and/or operational constraints. Further, the identification of the need for a major rehabilitation project does not mean that federal or state funding will be available to complete the work in the year shown. It is important to remember that regardless of the recommendations presented within this report, Valdosta Regional Airport is responsible for repairing pavements where existing conditions pose a hazard to safe operations.

Note these recommendations are based on a broad network-level analysis and are meant to provide Valdosta Regional Airport with an indication of the type of pavement-related work required during the next 5 years. Further engineering investigation will need to be performed to identify exactly which repair action is most appropriate and to more accurately estimate the cost of such work. In addition, the cost estimates provided were based on a statewide policy and each airport should adjust the maintenance policies and unit costs to match its own approach to pavement maintenance and to reflect local costs.



Table 3. 5-Year Program under an Unlimited Funding Analysis Scenario.

Branch <sup>1</sup>	Section	Year	Type of Repair <sup>2</sup>	Estimated Cost <sup>3</sup>
A01VL	10	2013	Rejuvenator	\$22,384
		2017	Preventive Maintenance	\$22,187
	20	2013	Rejuvenator	\$36,051
		2017	Preventive Maintenance	\$42,015
	25	2013	Rejuvenator	\$2,151
		2017	Preventive Maintenance	\$422
	30	2013	Rejuvenator	\$19,547
		2017	Preventive Maintenance	\$27,479
40	2013	Rejuvenator	\$49,876	
	2017	Preventive Maintenance	\$19,183	
R1331VL	10	2014	Major M&R	\$550,783
R1735VL	10	2013	Preventive Maintenance	\$49,418
		2013	Rejuvenator	\$233,453
		2017	Major M&R	\$3,129,146
	20	2013	Rejuvenator	\$56,034
2017		Preventive Maintenance	\$14,282	
R422VL	10	2013	Rejuvenator	\$120,786
		2017	Preventive Maintenance	\$51,801
TAVL	10	2013	Rejuvenator	\$91,996
		2017	Preventive Maintenance	\$46,526
	20	2013	Rejuvenator	\$34,427
		2017	Preventive Maintenance	\$7,965
TCVL	10	2013	Rejuvenator	\$41,658
		2017	Preventive Maintenance	\$47,229
TFVL	10	2013	Preventive Maintenance	\$279
		2013	Rejuvenator	\$19,654
		2017	Preventive Maintenance	\$23,356
THANG01VL	10	2013	Major M&R	\$105,317
	20	2013	Rejuvenator	\$4,831
		2017	Preventive Maintenance	\$790
	30	2013	Rejuvenator	\$1,204
2017		Preventive Maintenance	\$401	
THANG02VL	10	2017	Preventive Maintenance	\$6,760
		2013	Rejuvenator	\$1,667
	20	2017	Preventive Maintenance	\$211
		2013	Rejuvenator	\$1,760
	30	2017	Preventive Maintenance	\$295
2016		Rejuvenator	\$5,770	
TLVL	10	2013	Rejuvenator	\$1,719
		2017	Preventive Maintenance	\$429

Table 3. 5-Year Program under an Unlimited Funding Analysis Scenario (continued).

<b>Branch<sup>1</sup></b>	<b>Section</b>	<b>Year</b>	<b>Type of Repair<sup>2</sup></b>	<b>Estimated Cost<sup>3</sup></b>
TLVL	20	2013	Rejuvenator	\$2,431
		2017	Preventive Maintenance	\$401
TMVL	10	2013	Major M&R	\$136,473
TNVL	10	2013	Major M&R	\$63,603

<sup>1</sup>See Figure 5 for the location of the branch and section.

<sup>2</sup>Major Rehabilitation: overlay, mill and overlay, reconstruction, and so on;

Localized Maintenance: crack sealing, patching, joint resealing, and so on;

Global Maintenance: surface treatments, rejuvenators, and so on.

<sup>3</sup>Cost estimates based on broad, statewide policy and should be adjusted to reflect local costs.

---

## GENERAL RECOMMENDATIONS

### Maintenance

In addition to the specific maintenance actions presented in Appendix E and Appendix F, the following strategies are recommended to prolong pavement life:

1. Conduct an aggressive campaign against weed growth through timely herbicide applications. Vegetation growing in pavement cracks is very destructive and significantly increases the rate of pavement deterioration.
2. Implement a periodic crack sealing program. Sealing cracks is a proven method for cost-effectively keeping water and debris out of the pavement system and extending its life.
3. Ensure that dirt does not build up along the edges of the pavements. This can create a “bathtub” effect—reducing the ability of water to drain away from the pavement system.
4. Closely monitor heavy equipment movement, such as construction equipment, emergency equipment, and fueling equipment, to make sure that it is only operating on pavement designed to accommodate the heavy loads this type of equipment often applies. Failure to restrict heavy equipment to appropriate areas may result in the premature failure of airport pavements.
5. Other maintenance necessities include keeping all pavement markings well painted, keeping safety signage clear of debris and weeds, ensuring the continuous operation of lighting systems (bulb replacement), and the frequent removal of any debris found in any of the operating areas. In addition, failed pavement areas should be remediated as necessary.

### Remaining in Compliance with Public Law 103-305

Public Law 103-305 states that after January 1, 1995, airport sponsors must provide assurances or certifications that an airport has implemented an effective airport pavement maintenance management system (PMMS) before the airport will be considered for funding of pavement replacement or reconstruction projects. To be in full compliance with the Federal law, the PMMS must include the following components at a minimum: pavement inventory, pavement inspections, record keeping, information retrieval, and program funding.

By undertaking this project, the Department has provided Valdosta Regional Airport with an excellent basis for meeting the requirements of this law. The airport now has a complete pavement inventory and a detailed inspection. To remain in compliance with the law, the airport will also need to undertake monthly drive-by inspections of pavement conditions and track pavement-related maintenance activities. The next detailed inspection should occur in 2015.

The FAA AC 150/5380-6B provides further information on Public Law 103-305. Specifically, Appendix 1 of this AC outlines what needs to be included in a PMMS to satisfy FAA Grant Assurance 11. A copy of this AC can be found at the following website [http://www.faa.gov/regulations\\_policies/advisory\\_circulars/index.cfm/go/document/information/documentID/22556](http://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document/information/documentID/22556).

## **SUMMARY**

This report documents the results of the pavement evaluation conducted at Valdosta Regional Airport. During a visual inspection of the pavements in 2012, it was found that the overall condition of the pavement network is a PCI of 87. A 5- year pavement repair program was generated for Valdosta Regional Airport, which revealed that approximately \$5,094,149 needs to be expended on the pavement system to maintain and/or improve its condition.

## **APPENDIX A**

### **CAUSE OF DISTRESS TABLES**



Table A-1. Cause of Pavement Distress, Asphalt-Surfaced Pavements.

<b>Distress Type</b>	<b>Probable Cause of Distress</b>	<b>Feasible Maintenance Strategies</b>
Alligator Cracking	Fatigue failure of the asphalt concrete surface under repeated traffic loading.	If localized, partial- or full-depth asphalt patch. If extensive, major rehabilitation needed.
Bleeding	Excessive amounts of asphalt cement or tars in the mix and/or low air void content.	Spread heated sand, roll, and sweep. Another option is to plane excess asphalt. Or, remove and replace.
Block Cracking	Shrinkage of the asphalt concrete and daily temperature cycling; it is not load associated.	At low severity levels, crack seal and/or surface treatment. At higher severities, consider overlay.
Corrugation	Traffic action combined with an unstable pavement layer.	If localized, mill. If extensive, remove and replace.
Depression	Settlement of the foundation soil or can be “built up” during construction.	Patch.
Jet Blast	Bituminous binder has been burned or carbonized.	Patch.
Joint Reflection Cracking	Movement of the concrete slab beneath the asphalt concrete surface due to thermal and moisture changes.	At low- and medium-severities, crack seal. At higher severities, especially if extensive, consider overlay.
Longitudinal and Transverse Cracking	Cracks may be caused by 1) poorly constructed paving lane joint, 2) shrinkage of the AC surface due to low temperatures or hardening of the asphalt, or 3) reflective crack caused by cracks in an underlying PCC slab.	At low- and medium-severity levels, crack seal. At higher severities, especially if extensive, consider overlay options.
Oil Spillage	Deterioration or softening of the pavement surface caused by the spilling of oil, fuel, or other solvents.	Patch.
Patching	N/A	Replace patch if deteriorated.
Polished Aggregate	Repeated traffic applications.	Aggregate seal coat is one option. Could also groove or mill. Overlay is another option.
Raveling	Asphalt binder may have hardened significantly, causing coarse aggregate pieces to dislodge.	Patch if isolated. At higher severity levels, consider major rehabilitation if extensive.
Rutting	Usually caused by consolidation or lateral movement of the materials due to traffic loads.	Patch medium- and high-severity levels if localized. If extensive, consider major rehabilitation.
Shoving	Where PCC pavements adjoin flexible pavements, PCC “growth” may shove the asphalt pavement.	Mill and patch as needed.
Slippage Cracking	Low strength surface mix or poor bond between the surface and next layer of pavement structure.	Partial- or full-depth patch.
Swelling	Usually caused by frost action or by swelling soil.	Patch if localized. Major rehabilitation if extensive.
Weathering	Asphalt binder and/or fine aggregate may wear away as the pavement ages and hardens.	Patch if isolated. Consider a surface treatment if extensive.

Table A-2. Cause of Pavement Distress, PCC Pavements.

<b>Distress Type</b>	<b>Probable Cause of Distress</b>	<b>Feasible Maintenance Strategies</b>
Alkali Silica Reaction (ASR)	Chemical reaction of alkalis in the portland cement with certain reactive silica minerals. ASR may be accelerated by the use of chemical pavement deicers.	At medium- and high-severity levels, slab replacement is recommended.
Blow-Up	Incompressibles in joints.	Partial- or full-depth patch. Slab replacement.
Corner Break	Load repetition combined with loss of support and curling stresses.	Seal cracks at low-severity. Full-depth patch.
Cracks	Combination of load repetition, curling stresses, and shrinkage stresses.	Seal cracks. At high-severity, may need full-depth patch or slab replacement.
Durability Cracking	Concrete's inability to withstand environmental factors such as freeze-thaw cycles.	Full-depth patch if present on small amount of slab. At higher severity levels, once it has appeared on most of slab, slab replacement.
Joint Seal Damage	Stripping of joint sealant, extrusion of joint sealant, weed growth, hardening of the filler (oxidation), loss of bond to the slab edges, or absence of sealant in joint.	Replace joint seal.
Patching (Small and Large)	N/A	Replace patches if deteriorated.
Popouts	Freeze-thaw action in combination with expansive aggregates.	Monitor.
Pumping	Poor drainage, poor joint sealant.	Seal cracks and joints. Underseal is an option if voids have developed. Establish good drainage.
Scaling	Overfinishing of concrete, deicing salts, improper construction, freeze-thaw cycles, and poor aggregate.	At low-severity levels, do nothing. At medium- and high-severity levels, partial-depth patches or slab replacement.
Settlement	Upheaval or consolidation.	At higher severity levels, leveling patch or grind to restore smooth ride.
Shattered Slab	Load repetition.	Replace slab.
Shrinkage	Setting and curing of the concrete.	Monitor.
Spalling (Joint and Corner)	Excessive stresses at the joint caused by infiltration of incompressible materials or traffic loads; weak concrete at joint combined with traffic loads.	Partial-depth patch.

# **APPENDIX B**

# **PHOTOGRAPHS**



A01VL-10. Overview.



A01VL-10. Longitudinal and Transverse Cracking (Sample Unit #13).



A01VL-10. Satisfactory Paint.



A01VL-20. Overview.





A01VL-20. Longitudinal and Transverse Cracking (Sample Unit #16).



A01VL-20. Unsatisfactory Paint.





A01VL-25. Overview.



A01VL-25. Longitudinal and Transverse Cracking (Sample Unit #02).



A01VL-30. Overview.



A01VL-30. Longitudinal and Transverse Cracking (Sample Unit #01).





A01VL-30. Unsatisfactory Paint.



A01VL-40. Overview.



A01VL-40. Longitudinal and Transverse Cracking (Sample Unit #2).



A01VL-40. Satisfactory Paint.





ATERMVL-10. Overview.



ATERMVL-10. ASR (Sample Unit #6).



ATERMVL-10. Satisfactory Paint.



ATERMVL-10. Shrinkage Cracking (Sample Unit #5).





R1331VL-20. Overview.



R1331VL-20. Longitudinal and Transverse Cracking.





R1331VL-20. Satisfactory Paint.



R1735VL-10. Overview.



R1735VL-10. Longitudinal and Transverse Cracking and Satisfactory Paint (Sample Unit #60).



R1735VL-20. Overview.





R1735VL-20. Longitudinal and Transverse Cracking and Satisfactory Paint (Sample Unit #31).



R422VL-10. Overview.





R422VL-10. Longitudinal and Transverse Cracking.



R422VL-10. Unsatisfactory Paint.





R422VL-10. Weathering (sample unit #55).



TAVL-10. Overview.





TAVL-10. Longitudinal and Transverse Cracking (Sample Unit #20).



TAVL-10. Satisfactory Paint.



TAVL-20. Overview.



TAVL-20. Longitudinal and Transverse Cracking (Sample Unit #2).





TAVL-20. Satisfactory Paint.



TCVL-10. Overview.





TCVL-10. Unsatisfactory Paint.



TCVL-10. Longitudinal and Transverse Cracking (sample unit #30).





TFVL-10. Overview.



TFVL-10. Unsatisfactory Paint and Longitudinal and Transverse Cracking (Sample Unit #3).



TLVL-10. Overview.



TLVL-10. Longitudinal and Transverse Cracking.





TLVL-10. Satisfactory Paint.



TLVL-20. Overview.





TLVL-20. Longitudinal and Transverse Cracking and Unsatisfactory Paint (Sample Unit #2).



TMVL-10. Overview.



TMVL-10. Alligator Cracking (sample unit #2).



TMVL-10. Longitudinal and Transverse Cracking and Satisfactory Paint (Sample Unit #9).





TNVL-10. Overview.



TNVL-10. Bleeding (Sample Unit #1).



TNVL-10. Longitudinal and Transverse Cracking and Satisfactory Paint.



THANG01VL-10. Overview.





THANG01VL-10. Longitudinal and Transverse Cracking and Satisfactory Paint (Sample Unit #1).



THANG01VL-10. Block Cracking (Sample Unit #02).





THANG01VL-20. Overview.



THANG01VL-20. Satisfactory Paint.



THANG01VL-30. Overview.



THANG01VL-30. Longitudinal and Transverse Cracking (Sample Unit #01).





THANG01VL-30. Satisfactory Paint.



THANG02VL-10. Overview.



THANG02VL-10. Longitudinal and Transverse Cracking (Sample Unit #02).



THANG02VL-10. Satisfactory Paint.





THANG02VL-20. Overview.



THANG02VL-20. Unsatisfactory Paint.



THANG02VL-30. Overview.



THANG02VL-30. Satisfactory Paint.





THANG02VL-40. Overview.



THANG02VL-40. Satisfactory Paint.



# **APPENDIX C**

## **INSPECTION REPORT**

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: A01VL Name: APRON 01 Use: APRON Area: 590,950.00SqFt

Section: 10 of 5 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AAC Family: GAAACAPCSOUTH Zone: U-FA Category: Rank: P  
Area: 101,744.00SqFt Length: 190.00Ft Width: 510.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 21 Surveyed: 6

Conditions: PCI : 87

Inspection Comments:

Sample Number: 03 Type: R Area: 5,000.00SqFt PCI = 89

Sample Comments:

57 WEATHERING L 100.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 165.00 Ft Comments:

Sample Number: 05 Type: R Area: 5,500.00SqFt PCI = 91

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 120.00 Ft Comments:  
57 WEATHERING L 100.00 SqFt Comments:

Sample Number: 08 Type: R Area: 5,000.00SqFt PCI = 87

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 165.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 11 Type: R Area: 5,000.00SqFt PCI = 77

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 271.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:  
45 DEPRESSION L 50.00 SqFt Comments:

Sample Number: 13 Type: R Area: 5,000.00SqFt PCI = 84

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 213.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 16 Type: R Area: 5,500.00SqFt PCI = 94

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 27.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: A01VL Name: APRON 01 Use: APRON Area: 590,950.00SqFt

Section: 20 of 5 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AAC Family: GAAACAPCSSOUTH Zone: U-FA Category: Rank: P  
Area: 163,870.00SqFt Length: 200.00Ft Width: 730.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 32 Surveyed: 7

Conditions: PCI : 86

Inspection Comments:

Sample Number: 02 Type: R Area: 5,000.00SqFt PCI = 94

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 12.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 13 Type: R Area: 5,000.00SqFt PCI = 82

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 265.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 16 Type: R Area: 5,000.00SqFt PCI = 84

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 223.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 20 Type: R Area: 5,000.00SqFt PCI = 91

Sample Comments:

57 WEATHERING L 500.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 105.00 Ft Comments:

Sample Number: 23 Type: R Area: 5,000.00SqFt PCI = 84

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 246.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:half coal tar

Sample Number: 25 Type: R Area: 6,600.00SqFt PCI = 88

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 188.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 28 Type: R Area: 5,000.00SqFt PCI = 81

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 295.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:



# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: A01VL Name: APRON 01 Use: APRON Area: 590,950.00SqFt

Section: 25 of 5 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AC Family: GAACAPCSOUTH Zone: N/A Category: Rank: P  
Area: 9,778.00SqFt Length: 150.00Ft Width: 60.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 2 Surveyed: 2

Conditions: PCI: 93

Inspection Comments:

Sample Number: 01 Type: R Area: 5,278.00SqFt PCI = 93

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 20.00 Ft Comments:

57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 02 Type: R Area: 4,500.00SqFt PCI = 92

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 40.00 Ft Comments:

57 WEATHERING L 1,000.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: A01VL Name: APRON 01 Use: APRON Area: 590,950.00SqFt

Section: 30 of 5 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AAC Family: GAAACAPCSOUTH Zone: SAT Category: Rank: P  
Area: 88,850.00SqFt Length: 140.00Ft Width: 625.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 18 Surveyed: 5

Conditions: PCI : 85

Inspection Comments:

Sample Number: 01 Type: R Area: 3,975.00SqFt PCI = 91

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 80.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 04 Type: R Area: 4,111.00SqFt PCI = 85

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 182.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 08 Type: R Area: 5,000.00SqFt PCI = 82

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 320.00 Ft Comments:  
57 WEATHERING L 100.00 SqFt Comments:

Sample Number: 11 Type: R Area: 5,000.00SqFt PCI = 86

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 208.00 Ft Comments:  
57 WEATHERING L 100.00 SqFt Comments:

Sample Number: 15 Type: R Area: 5,000.00SqFt PCI = 85

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 225.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: A01VL Name: APRON 01 Use: APRON Area: 590,950.00SqFt

Section: 40 of 5 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AAC Family: GAAACAPCSSOUTH Zone: SAT Category: Rank: P  
Area: 226,708.00SqFt Length: 200.00Ft Width: 1,150.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 47 Surveyed: 7

Conditions: PCI: 93

Inspection Comments:

Sample Number: 02 Type: R Area: 5,000.00SqFt PCI = 87

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 181.00 Ft Comments:  
57 WEATHERING L 400.00 SqFt Comments:

Sample Number: 08 Type: R Area: 5,000.00SqFt PCI = 92

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 88.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 19 Type: R Area: 5,000.00SqFt PCI = 97

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 5.00 Ft Comments:  
57 WEATHERING L 100.00 SqFt Comments:mostly coal tar

Sample Number: 24 Type: R Area: 5,000.00SqFt PCI = 93

Sample Comments:

52 RAVELING L 10.00 SqFt Comments:mech damage  
57 WEATHERING L 400.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 25.00 Ft Comments:

Sample Number: 30 Type: R Area: 5,000.00SqFt PCI = 92

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 80.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 35 Type: R Area: 5,000.00SqFt PCI = 94

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 23.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 43 Type: R Area: 5,000.00SqFt PCI = 94

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 19.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:



# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: ATERMVL Name: TERMINAL APRON Use: APRON Area: 47,310.00SqFt

Section: 10 of 1 From: TWN-10 & TWM-10 INTERSECT To: END OF APRON Last Const.: 06/01/1996  
Surface: PCC Family: GAPCCAPHPHTHSOUTH-65 Zone: SAT Category: Rank: P  
Area: 47,310.00SqFt Length: 175.00Ft Width: 280.00Ft  
Slabs: 118 Slab Width: 20.00Ft Slab Length: 20.00Ft Joint Length: 4,445.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 6 Surveyed: 4

Conditions: PCI : 78

Inspection Comments:

Sample Number: 01 Type: R Area: 20.00Slabs PCI = 73

Sample Comments:

65 JOINT SEAL DAMAGE	L	20.00 Slabs	Comments:
73 SHRINKAGE CRACKING	N	5.00 Slabs	Comments:
76 ASR	L	15.00 Slabs	Comments:

Sample Number: 03 Type: R Area: 25.00Slabs PCI = 84

Sample Comments:

65 JOINT SEAL DAMAGE	L	25.00 Slabs	Comments:
73 SHRINKAGE CRACKING	N	10.00 Slabs	Comments:
76 ASR	L	3.00 Slabs	Comments:

Sample Number: 05 Type: R Area: 20.00Slabs PCI = 78

Sample Comments:

65 JOINT SEAL DAMAGE	L	20.00 Slabs	Comments:
76 ASR	L	7.00 Slabs	Comments:
73 SHRINKAGE CRACKING	N	13.00 Slabs	Comments:

Sample Number: 06 Type: R Area: 16.00Slabs PCI = 77

Sample Comments:

65 JOINT SEAL DAMAGE	L	16.00 Slabs	Comments:
76 ASR	L	7.00 Slabs	Comments:
73 SHRINKAGE CRACKING	N	9.00 Slabs	Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: R1331VL Name: RUNWAY 13/31 Use: RUNWAY Area: 204,100.00SqFt

Section: 10 of 1 From: END BLAST PAD @ 13 END To: END OF R1331 @ 31 END Last Const.: 06/01/1998  
Surface: AAC Family: GAAACRWYCSSOUTH Zone: SAT Category: Rank: P  
Area: 204,100.00SqFt Length: 3,140.00Ft Width: 65.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 49 Surveyed: 8

Conditions: PCI: 77

Inspection Comments:

Sample Number: 02 Type: R Area: 4,875.00SqFt PCI = 87  
Sample Comments:  
57 WEATHERING L 4,875.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 103.00 Ft Comments:lu

Sample Number: 09 Type: R Area: 4,875.00SqFt PCI = 89  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 78.00 Ft Comments:lu  
57 WEATHERING L 4,875.00 SqFt Comments:

Sample Number: 15 Type: R Area: 4,875.00SqFt PCI = 72  
Sample Comments:  
57 WEATHERING L 4,875.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 335.00 Ft Comments:lu  
48 LONGITUDINAL/TRANSVERSE CRACKING M 109.00 Ft Comments:w

Sample Number: 21 Type: R Area: 4,875.00SqFt PCI = 76  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 351.00 Ft Comments:lu  
57 WEATHERING L 4,875.00 SqFt Comments:

Sample Number: 27 Type: R Area: 4,875.00SqFt PCI = 71  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 338.00 Ft Comments:lu  
48 LONGITUDINAL/TRANSVERSE CRACKING M 100.00 Ft Comments:w  
57 WEATHERING L 4,875.00 SqFt Comments:

Sample Number: 33 Type: R Area: 4,875.00SqFt PCI = 71  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING M 100.00 Ft Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 338.00 Ft Comments:  
57 WEATHERING L 4,875.00 SqFt Comments:

Sample Number: 38 Type: A Area: 4,875.00SqFt PCI = 67  
Sample Comments:  
57 WEATHERING L 4,875.00 SqFt Comments:  
42 BLEEDING N 10.00 SqFt Comments:  
45 DEPRESSION L 30.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 459.00 Ft Comments:lu

Sample Number: 39 Type: R Area: 4,875.00SqFt PCI = 75  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 395.00 Ft Comments:lu

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

57 WEATHERING

L

4,875.00 SqFt

Comments:



# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: R1735VL Name: RUNWAY 17/35 Use: RUNWAY Area: 1,315,849.00SqFt

Section: 10 of 2 From: APPROACH END 17 To: END OF R1735 @ 34 END Last Const.: 06/01/2001

Surface: AAC Family: GAAACRWYCSSOUTH Zone: SAT Category: Rank: P

Area: 1,061,149.00SqFt Length: 6,302.00Ft Width: 150.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 218 Surveyed: 20

Conditions: PCI: 84

Inspection Comments: most 48 in pl jt.

Sample Number:	10	Type: R	Area:	5,000.00SqFt	PCI = 88
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING L 193.00 Ft Comments:lu				
Sample Number:	20	Type: R	Area:	5,000.00SqFt	PCI = 92
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING L 112.00 Ft Comments:lu				
Sample Number:	30	Type: R	Area:	5,000.00SqFt	PCI = 90
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING L 154.00 Ft Comments:lu				
Sample Number:	40	Type: R	Area:	5,000.00SqFt	PCI = 78
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING M 100.00 Ft Comments:secondary				
	48 LONGITUDINAL/TRANSVERSE CRACKING L 297.00 Ft Comments:LU				
Sample Number:	50	Type: R	Area:	5,000.00SqFt	PCI = 87
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING L 208.00 Ft Comments:LU				
Sample Number:	60	Type: R	Area:	5,000.00SqFt	PCI = 81
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING M 149.00 Ft Comments:LU				
Sample Number:	72	Type: R	Area:	5,000.00SqFt	PCI = 85
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING L 234.00 Ft Comments:LU				
	57 WEATHERING M 4.00 SqFt Comments:				
Sample Number:	82	Type: R	Area:	5,000.00SqFt	PCI = 84
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING L 160.00 Ft Comments:LU				
	48 LONGITUDINAL/TRANSVERSE CRACKING M 20.00 Ft Comments:SECONDARY				
Sample Number:	92	Type: R	Area:	5,000.00SqFt	PCI = 77
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING L 332.00 Ft Comments:lu				
	57 WEATHERING M 700.00 SqFt Comments:paint removal				
Sample Number:	102	Type: R	Area:	5,000.00SqFt	PCI = 89
Sample Comments:	48 LONGITUDINAL/TRANSVERSE CRACKING L 169.00 Ft Comments:lu				

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

---

Sample Number:	104	Type: A	Area:	5,000.00SqFt	PCI = 84
Sample Comments:					
50 PATCHING			L	290.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING			L	140.00 Ft	Comments:lu

---

Sample Number:	112	Type: R	Area:	5,000.00SqFt	PCI = 91
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			L	121.00 Ft	Comments:lu

---

Sample Number:	122	Type: R	Area:	5,000.00SqFt	PCI = 89
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			L	176.00 Ft	Comments:lu

---

Sample Number:	138	Type: R	Area:	5,000.00SqFt	PCI = 85
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			L	265.00 Ft	Comments:lu

---

Sample Number:	148	Type: R	Area:	5,000.00SqFt	PCI = 85
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			L	148.00 Ft	Comments:lu
48 LONGITUDINAL/TRANSVERSE CRACKING			M	20.00 Ft	Comments:

---

Sample Number:	157	Type: A	Area:	5,000.00SqFt	PCI = 86
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			L	128.00 Ft	Comments:lu
50 PATCHING			L	130.00 SqFt	Comments:

---

Sample Number:	158	Type: R	Area:	5,000.00SqFt	PCI = 89
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			L	163.00 Ft	Comments:lu

---

Sample Number:	168	Type: R	Area:	5,000.00SqFt	PCI = 78
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			L	310.00 Ft	Comments:lu
48 LONGITUDINAL/TRANSVERSE CRACKING			M	50.00 Ft	Comments:width

---

Sample Number:	178	Type: R	Area:	5,000.00SqFt	PCI = 68
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			M	313.00 Ft	Comments:LU
57 WEATHERING			L	1,040.00 SqFt	Comments:

---

Sample Number:	188	Type: R	Area:	5,000.00SqFt	PCI = 78
Sample Comments:					
48 LONGITUDINAL/TRANSVERSE CRACKING			L	220.00 Ft	Comments:LU
48 LONGITUDINAL/TRANSVERSE CRACKING			M	25.00 Ft	Comments:WIDTH
57 WEATHERING			M	200.00 SqFt	Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: R1735VL Name: RUNWAY 17/35 Use: RUNWAY Area: 1,315,849.00SqFt

Section: 20 of 2 From: OLD 35-END To: . Last Const.: 07/31/2005  
Surface: AC Family: GAACRWYCS Zone: SAT Category: Rank: P  
Area: 254,700.00SqFt Length: 1,698.00Ft Width: 150.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 51 Surveyed: 7

Conditions: PCI : 97

Inspection Comments: Most 48 PL jt.

Sample Number: 02 Type: R Area: 5,000.00SqFt PCI = 100

Sample Comments:  
<NO DISTRESSES>

Sample Number: 09 Type: R Area: 5,000.00SqFt PCI = 95

Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 55.00 Ft Comments:LU

Sample Number: 19 Type: R Area: 5,000.00SqFt PCI = 100

Sample Comments:  
<NO DISTRESSES>

Sample Number: 24 Type: R Area: 5,000.00SqFt PCI = 96

Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 18.00 Ft Comments:LU

Sample Number: 31 Type: R Area: 5,000.00SqFt PCI = 91

Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 124.00 Ft Comments:

Sample Number: 40 Type: R Area: 5,000.00SqFt PCI = 100

Sample Comments:  
<NO DISTRESSES>

Sample Number: 47 Type: R Area: 5,000.00SqFt PCI = 94

Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 82.00 Ft Comments:



# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: R422VL Name: RUNWAY 4/22 Use: RUNWAY Area: 549,025.00SqFt

Section: 10 of 1 From: APPEDGE OF R1734 @ 17 END To: APPROACH END 04 Last Const.: 06/01/1996  
 Surface: AAC Family: GAAACRWYCSSOUTH Zone: SAT Category: Rank: P  
 Area: 549,025.00SqFt Length: 5,500.00Ft Width: 100.00Ft  
 Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 110 Surveyed: 11

Conditions: PCI: 92

Inspection Comments: Bleeding not prevalent at this inspection

Sample Number: 12 Type: R Area: 5,000.00SqFt PCI = 95

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 18.00 Ft Comments:lu  
 57 WEATHERING L 360.00 SqFt Comments:

Sample Number: 22 Type: R Area: 5,000.00SqFt PCI = 94

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 21.00 Ft Comments:lu  
 57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 32 Type: R Area: 5,000.00SqFt PCI = 94

Sample Comments:

57 WEATHERING L 500.00 SqFt Comments:  
 48 LONGITUDINAL/TRANSVERSE CRACKING L 15.00 Ft Comments:lu  
 42 BLEEDING N 10.00 SqFt Comments:

Sample Number: 42 Type: R Area: 5,000.00SqFt PCI = 97

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 10.00 Ft Comments:lu

Sample Number: 52 Type: R Area: 5,000.00SqFt PCI = 94

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 72.00 Ft Comments:lu

Sample Number: 55 Type: R Area: 4,500.00SqFt PCI = 85

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 95.00 Ft Comments:lu  
 42 BLEEDING N 30.00 SqFt Comments:  
 57 WEATHERING M 270.00 SqFt Comments:paint removal

Sample Number: 60 Type: R Area: 5,000.00SqFt PCI = 91

Sample Comments:

42 BLEEDING N 20.00 SqFt Comments:  
 48 LONGITUDINAL/TRANSVERSE CRACKING L 80.00 Ft Comments:lu

Sample Number: 70 Type: R Area: 5,000.00SqFt PCI = 95

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 31.00 Ft Comments:lu  
 57 WEATHERING L 80.00 SqFt Comments:

Sample Number: 80 Type: R Area: 5,000.00SqFt PCI = 92

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 71.00 Ft Comments:lu

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

---

57 WEATHERING	L	500.00 SqFt	Comments:
---------------	---	-------------	-----------

---

Sample Number: 90	Type: R	Area: 5,000.00SqFt	PCI = 84
-------------------	---------	--------------------	----------

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	240.00 Ft	Comments:lu
-------------------------------------	---	-----------	-------------

57 WEATHERING	L	500.00 SqFt	Comments:
---------------	---	-------------	-----------

---

Sample Number: 100	Type: R	Area: 5,000.00SqFt	PCI = 89
--------------------	---------	--------------------	----------

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING	L	78.00 Ft	Comments:lu
-------------------------------------	---	----------	-------------

42 BLEEDING	N	28.00 SqFt	Comments:
-------------	---	------------	-----------

57 WEATHERING	L	500.00 SqFt	Comments:
---------------	---	-------------	-----------

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: TAVL Name: TAXIWAY A Use: TAXIWAY Area: 574,649.00SqFt

Section: 10 of 2 From: EDGE OF R1735 @ 17 END To: EDGE OF R1735 @ 35 END Last Const.: 08/03/2008  
Surface: AC Family: GAACTWYCS Zone: SAT Category: Rank: P  
Area: 418,162.00SqFt Length: 6,900.00Ft Width: 50.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 77 Surveyed: 8

Conditions: PCI: 92

Inspection Comments:

Sample Number: 03 Type: R Area: 5,000.00SqFt PCI = 90

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 112.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 15 Type: R Area: 5,000.00SqFt PCI = 98

Sample Comments:

57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 26 Type: R Area: 5,000.00SqFt PCI = 93

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 68.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 32 Type: R Area: 6,710.00SqFt PCI = 85

Sample Comments:

57 WEATHERING L 1,000.00 SqFt Comments:  
57 WEATHERING M 200.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 213.00 Ft Comments:  
42 BLEEDING N 2.00 SqFt Comments:

Sample Number: 41 Type: R Area: 6,000.00SqFt PCI = 94

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 55.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 51 Type: R Area: 6,000.00SqFt PCI = 93

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 75.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 61 Type: R Area: 6,000.00SqFt PCI = 93

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 75.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 70 Type: R Area: 6,000.00SqFt PCI = 91

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 125.00 Ft Comments:  
57 WEATHERING L 500.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: TAVL Name: TAXIWAY A Use: TAXIWAY Area: 574,649.00SqFt

Section: 20 of 2 From: . To: . Last Const.: 07/30/2005  
Surface: AC Family: GAACTWYCS Zone: SAT Category: Rank: P  
Area: 156,487.00SqFt Length: 2,280.00Ft Width: 60.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 27 Surveyed: 6

Conditions: PCI: 93

Inspection Comments:

Sample Number: 02 Type: R Area: 5,758.00SqFt PCI = 94

Sample Comments:

57 WEATHERING L 1,000.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 20.00 Ft Comments:

Sample Number: 06 Type: R Area: 5,625.00SqFt PCI = 93

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 53.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 08 Type: R Area: 5,746.00SqFt PCI = 93

Sample Comments:

57 WEATHERING L 1,000.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 30.00 Ft Comments:

Sample Number: 18 Type: R Area: 6,000.00SqFt PCI = 97

Sample Comments:

57 WEATHERING L 37.00 SqFt Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 22 Type: R Area: 6,000.00SqFt PCI = 90

Sample Comments:

57 WEATHERING L 1,000.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 123.00 Ft Comments:

Sample Number: 26 Type: R Area: 6,115.00SqFt PCI = 94

Sample Comments:

57 WEATHERING L 1,000.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 29.00 Ft Comments:



# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: TCVL Name: TAXIWAY C Use: TAXIWAY Area: 189,356.00SqFt

Section: 10 of 1 From: R422 @ 04 END To: R1735 INTERSECTION Last Const.: 06/01/2002  
Surface: AAC Family: GAAACTWYCSSOUTH Zone: U-FA Category: Rank: P  
Area: 189,356.00SqFt Length: 3,550.00Ft Width: 50.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 38 Surveyed: 7

Conditions: PCI : 83

Inspection Comments:

Sample Number: 04 Type: R Area: 5,000.00SqFt PCI = 85  
Sample Comments:  
57 WEATHERING L 2,500.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 160.00 Ft Comments:lu

Sample Number: 09 Type: R Area: 5,000.00SqFt PCI = 78  
Sample Comments:  
57 WEATHERING L 2,500.00 SqFt Comments:  
57 WEATHERING M 100.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 255.00 Ft Comments:lu

Sample Number: 15 Type: R Area: 5,000.00SqFt PCI = 82  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 225.00 Ft Comments:lu  
57 WEATHERING L 2,500.00 SqFt Comments:

Sample Number: 21 Type: R Area: 5,000.00SqFt PCI = 87  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 119.00 Ft Comments:lu  
57 WEATHERING L 2,500.00 SqFt Comments:

Sample Number: 27 Type: R Area: 5,000.00SqFt PCI = 86  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 142.00 Ft Comments:lu  
57 WEATHERING L 2,500.00 SqFt Comments:

Sample Number: 30 Type: R Area: 5,000.00SqFt PCI = 82  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 175.00 Ft Comments:lu  
57 WEATHERING L 2,500.00 SqFt Comments:  
50 PATCHING L 3.00 SqFt Comments:

Sample Number: 33 Type: R Area: 5,000.00SqFt PCI = 84  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 165.00 Ft Comments:lu  
57 WEATHERING L 2,500.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: TFVL Name: TAXIWAY F Use: TAXIWAY Area: 89,335.00SqFt

Section: 10 of 1 From: R422 & R1331 INTERSECTION To: INTERSECTION W/ R1735 Last Const.: 06/01/2002  
Surface: AAC Family: GAAACTWYCSSOUTH Zone: U-FA Category: Rank: P  
Area: 89,335.00SqFt Length: 1,800.00Ft Width: 50.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 18 Surveyed: 6

Conditions: PCI : 83

Inspection Comments:

Sample Number: 03 Type: R Area: 5,000.00SqFt PCI = 76

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 265.00 Ft Comments:lu  
48 LONGITUDINAL/TRANSVERSE CRACKING M 15.00 Ft Comments:w  
57 WEATHERING L 1,500.00 SqFt Comments:

Sample Number: 07 Type: R Area: 5,000.00SqFt PCI = 82

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 225.00 Ft Comments:lu  
57 WEATHERING L 2,500.00 SqFt Comments:

Sample Number: 11 Type: R Area: 5,000.00SqFt PCI = 89

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 104.00 Ft Comments:lu  
57 WEATHERING L 1,500.00 SqFt Comments:

Sample Number: 13 Type: R Area: 5,000.00SqFt PCI = 86

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 163.00 Ft Comments:lu  
57 WEATHERING L 1,500.00 SqFt Comments:

Sample Number: 15 Type: R Area: 5,000.00SqFt PCI = 84

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 175.00 Ft Comments:  
57 WEATHERING L 2,500.00 SqFt Comments:

Sample Number: 17 Type: R Area: 5,000.00SqFt PCI = 85

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 183.00 Ft Comments:lu  
57 WEATHERING L 1,500.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: THANG01VL Name: T-HANGER 01 Use: THANGAR Area: 44,207.00SqFt

Section: 10 of 3 From: A01-20 To: SEE MAP Last Const.: 06/01/1985  
Surface: AC Family: GAACHTCS Zone: SAT Category: Rank: P  
Area: 16,775.00SqFt Length: 815.00Ft Width: 20.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 3 Surveyed: 3

Conditions: PCI: 42

Inspection Comments:

Sample Number: 01 Type: R Area: 5,650.00SqFt PCI = 42

Sample Comments:

43 BLOCK CRACKING M 5,650.00 SqFt Comments:

57 WEATHERING M 5,650.00 SqFt Comments:

Sample Number: 02 Type: R Area: 5,474.00SqFt PCI = 42

Sample Comments:

43 BLOCK CRACKING M 5,474.00 SqFt Comments:

57 WEATHERING M 5,474.00 SqFt Comments:

Sample Number: 03 Type: R Area: 5,651.00SqFt PCI = 42

Sample Comments:

57 WEATHERING L 5,651.00 SqFt Comments:

43 BLOCK CRACKING M 5,651.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: THANG01VL Name: T-HANGER 01 Use: THANGAR Area: 44,207.00SqFt

Section: 20 of 3 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AAC Family: GAAACTH-65 Zone: U-FA Category: Rank: P  
Area: 21,960.00SqFt Length: 730.00Ft Width: 30.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 4 Surveyed: 3

Conditions: PCI: 94

Inspection Comments:

Sample Number: 02 Type: R Area: 6,000.00SqFt PCI = 95

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 7.00 Ft Comments:

57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 03 Type: R Area: 6,000.00SqFt PCI = 92

Sample Comments:

57 WEATHERING L 1,000.00 SqFt Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 75.00 Ft Comments:

Sample Number: 04 Type: R Area: 6,000.00SqFt PCI = 95

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 10.00 Ft Comments:

57 WEATHERING L 1,000.00 SqFt Comments:



# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

---

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

---

Branch: THANG01VL Name: T-HANGER 01 Use: THANGAR Area: 44,207.00SqFt

---

Section: 30 of 3 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AC Family: GAACHTCS Zone: SAT Category: Rank: P  
Area: 5,472.00SqFt Length: 263.00Ft Width: 20.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

---

Last Insp. Date: 02/15/2012 Total Samples: 1 Surveyed: 1

Conditions: PCI : 89

Inspection Comments:

---

Sample Number: 01 Type: R Area: 5,472.00SqFt PCI = 89

Sample Comments:

57 WEATHERING	L	5,472.00 SqFt	Comments:
48 LONGITUDINAL/TRANSVERSE CRACKING	L	57.00 Ft	Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: THANG02VL Name: T-HANGER 02 Use: THANGAR Area: 52,240.00SqFt

Section: 10 of 4 From: A01-40 To: SEE MAP Last Const.: 06/01/1988  
Surface: AC Family: GAACHTCS Zone: SAT Category: Rank: P  
Area: 12,667.00SqFt Length: 600.00Ft Width: 20.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 3 Surveyed: 3

Conditions: PCI : 77

Inspection Comments:

Sample Number: 01 Type: R Area: 4,564.00SqFt PCI = 74

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 325.00 Ft Comments:  
50 PATCHING L 10.00 SqFt Comments:  
57 WEATHERING L 4,564.00 SqFt Comments:

Sample Number: 02 Type: R Area: 4,651.00SqFt PCI = 78

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 412.00 Ft Comments:

Sample Number: 03 Type: R Area: 3,452.00SqFt PCI = 77

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 224.00 Ft Comments:  
57 WEATHERING L 3,452.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: THANG02VL Name: T-HANGER 02 Use: THANGAR Area: 52,240.00SqFt

Section: 20 of 4 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AAC Family: GAAACTH-65 Zone: SAT Category: Rank: P  
Area: 7,575.00SqFt Length: 350.00Ft Width: 20.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 2 Surveyed: 2

Conditions: PCI: 96

Inspection Comments:

Sample Number: 01 Type: R Area: 4,175.00SqFt PCI = 98

Sample Comments:

57 WEATHERING L 500.00 SqFt Comments:

Sample Number: 02 Type: R Area: 3,400.00SqFt PCI = 93

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 30.00 Ft Comments:

57 WEATHERING L 500.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: THANG02VL Name: T-HANGER 02 Use: THANGAR Area: 52,240.00SqFt

Section: 30 of 4 From: SEE MAP To: SEE MAP Last Const.: 06/01/2003  
Surface: AC Family: GAACHTCS Zone: SAT Category: Rank: P  
Area: 7,998.00SqFt Length: 240.00Ft Width: 20.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 2 Surveyed: 2

Conditions: PCI: 91

Inspection Comments:

Sample Number: 01 Type: R Area: 4,000.00SqFt PCI = 91

Sample Comments:

57 WEATHERING L 2,000.00 SqFt Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 15.00 Ft Comments:

Sample Number: 02 Type: R Area: 3,998.00SqFt PCI = 91

Sample Comments:

57 WEATHERING L 2,000.00 SqFt Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 27.00 Ft Comments:



# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: THANG02VL Name: T-HANGER 02 Use: THANGAR Area: 52,240.00SqFt

Section: 40 of 4 From: THANG02-30 To: END Last Const.: 02/27/2011  
Surface: AC Family: GAACTHCS Zone: SAT Category: Rank: S  
Area: 24,000.00SqFt Length: 800.00Ft Width: 30.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 7 Surveyed: 4

Conditions: PCI: 100

Inspection Comments:

Sample Number: 01 Type: R Area: 4,500.00SqFt PCI = 100

Sample Comments:

<NO DISTRESSES>

Sample Number: 02 Type: R Area: 4,500.00SqFt PCI = 100

Sample Comments:

<NO DISTRESSES>

Sample Number: 05 Type: R Area: 4,000.00SqFt PCI = 100

Sample Comments:

<NO DISTRESSES>

Sample Number: 07 Type: R Area: 4,045.00SqFt PCI = 100

Sample Comments:

<NO DISTRESSES>

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: TLVL Name: TAXIWAY L Use: TAXIWAY Area: 18,864.00SqFt

Section: 10 of 2 From: TLVL-10 To: A01VL-10 Last Const.: 06/01/2003

Surface: AAC Family: GAAACTWYCSSOUTH Zone: SAT Category: Rank: P

Area: 7,813.00SqFt Length: 160.00Ft Width: 50.00Ft

Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 2 Surveyed: 2

Conditions: PCI: 93

Inspection Comments:

Sample Number: 01 Type: R Area: 3,313.00SqFt PCI = 96

Sample Comments:

57 WEATHERING L 1,000.00 SqFt Comments:

Sample Number: 02 Type: R Area: 4,500.00SqFt PCI = 91

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 61.00 Ft Comments:

57 WEATHERING L 1,000.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: TLVL Name: TAXIWAY L Use: TAXIWAY Area: 18,864.00SqFt

Section: 20 of 2 From: SEE MAP To: SEE MAP Last Const.: 06/03/2003  
Surface: AC Family: GAACTWYCS Zone: U-FA Category: Rank: P  
Area: 11,051.00SqFt Length: 315.00Ft Width: 36.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 2 Surveyed: 2

Conditions: PCI: 92

Inspection Comments:

Sample Number: 01 Type: R Area: 5,400.00SqFt PCI = 91

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 40.00 Ft Comments:  
57 WEATHERING L 2,700.00 SqFt Comments:

Sample Number: 02 Type: R Area: 5,651.00SqFt PCI = 94

Sample Comments:

48 LONGITUDINAL/TRANSVERSE CRACKING L 17.00 Ft Comments:  
57 WEATHERING L 1,000.00 SqFt Comments:

# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: TMVL Name: TAXIWAY M Use: TAXIWAY Area: 52,089.00SqFt

Section: 10 of 1 From: EDGE OF TWN @ ATERM-10 To: R1735 @ 17 END Last Const.: 06/01/1996  
Surface: AC Family: GAACTWYCS Zone: SAT Category: Rank: P  
Area: 52,089.00SqFt Length: 1,000.00Ft Width: 50.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 10 Surveyed: 5

Conditions: PCI: 69

Inspection Comments:

Sample Number: 02 Type: R Area: 5,000.00SqFt PCI = 48

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	472.00	Ft	Comments:
57	WEATHERING	L	2,500.00	SqFt	Comments:
41	ALLIGATOR CRACKING	L	145.00	SqFt	Comments:
41	ALLIGATOR CRACKING	M	30.00	SqFt	Comments:

Sample Number: 04 Type: R Area: 5,000.00SqFt PCI = 72

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	505.00	Ft	Comments:lu
57	WEATHERING	L	2,500.00	SqFt	Comments:

Sample Number: 06 Type: R Area: 5,000.00SqFt PCI = 73

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	447.00	Ft	Comments:lu
57	WEATHERING	L	2,500.00	SqFt	Comments:

Sample Number: 08 Type: R Area: 5,000.00SqFt PCI = 76

Sample Comments:

48	LONGITUDINAL/TRANSVERSE CRACKING	L	360.00	Ft	Comments:lu
57	WEATHERING	L	2,500.00	SqFt	Comments:

Sample Number: 09 Type: R Area: 5,000.00SqFt PCI = 77

Sample Comments:

57	WEATHERING	L	2,500.00	SqFt	Comments:random
48	LONGITUDINAL/TRANSVERSE CRACKING	L	334.00	Ft	Comments:



# Re-inspection Report

GA 2012 FINAL

Report Generated Date: December 04, 2012

Network: VALDOSTA Name: VALDOSTA REGIONAL AIRPORT

Branch: TNVL Name: TAXIWAY N Use: TAXIWAY Area: 24,276.00SqFt

Section: 10 of 1 From: EDGE OF R422 To: ATERM-10 Last Const.: 06/01/1996  
Surface: AC Family: GAACTWYCS Zone: SAT Category: Rank: P  
Area: 24,276.00SqFt Length: 450.00Ft Width: 50.00Ft  
Shoulder: Street Type: Grade: 0.00 Lanes: 0

Section Comments:

Last Insp. Date: 02/15/2012 Total Samples: 5 Surveyed: 4

Conditions: PCI: 61

Inspection Comments:

Sample Number: 01 Type: R Area: 5,604.00SqFt PCI = 62  
Sample Comments:  
42 BLEEDING N 35.00 SqFt Comments:  
57 WEATHERING L 2,750.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 745.00 Ft Comments:lu  
57 WEATHERING M 100.00 SqFt Comments:

Sample Number: 02 Type: R Area: 5,000.00SqFt PCI = 65  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 735.00 Ft Comments:  
57 WEATHERING L 2,500.00 SqFt Comments:  
57 WEATHERING M 50.00 SqFt Comments:

Sample Number: 03 Type: R Area: 5,000.00SqFt PCI = 62  
Sample Comments:  
57 WEATHERING L 2,500.00 SqFt Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING L 701.00 Ft Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING M 50.00 Ft Comments:

Sample Number: 04 Type: R Area: 5,000.00SqFt PCI = 55  
Sample Comments:  
48 LONGITUDINAL/TRANSVERSE CRACKING M 620.00 Ft Comments:  
57 WEATHERING L 2,500.00 SqFt Comments:

## **APPENDIX D**

# **MAINTENANCE POLICIES AND UNIT COSTS**

Table D-1. Localized Maintenance Policy, Asphalt-Surfaced Pavements.

<b>Distress Type</b>	<b>Severity Level</b>	<b>Maintenance Action</b>
Alligator Cracking	Low	Monitor
	Medium	AC Patching
	High	AC Patching
Bleeding	N/A	Monitor
Block Cracking	Low	Monitor
	Medium	Crack Sealing – AC
	High	Crack Sealing – AC
Corrugation	Low	Monitor
	Medium	AC Patching
	High	AC Patching
Depression	Low	Monitor
	Medium	AC Patching
	High	AC Patching
Jet Blast	N/A	AC Patching
Joint Reflection Cracking	Low	Monitor
	Medium	Crack Sealing – AC
	High	Crack Sealing – AC
Longitudinal and Transverse Cracking	Low	Monitor
	Medium	Crack Sealing – AC
	High	Crack Sealing – AC
Oil/Fuel Damage	N/A	AC Patching
Patching	Low	Monitor
	Medium	Monitor
	High	AC Patching
Polished Aggregate	N/A	Monitor
Raveling	Low	Monitor
	Medium	AC Patching
	High	AC Patching
Rutting	Low	Monitor
	Medium	AC Patching
	High	AC Patching
Shoving	Low	Monitor
	Medium	AC Patching
	High	AC Patching
Slippage Cracking	N/A	AC Patching
Swelling	Low	Monitor
	Medium	AC Patching
	High	AC Patching
Weathering	Low	Monitor
	Medium	Monitor
	High	AC Patching

Table D-2. Localized Maintenance Policy, PCC Pavements.

<b>Distress Type</b>	<b>Severity Level</b>	<b>Maintenance Action</b>
Alkali Silica Reaction (ASR)	Low	Monitor
	Medium	Slab Replacement
	High	Slab Replacement
Blow-Up	Low	Slab Replacement
	Medium	Slab Replacement
	High	Slab Replacement
Corner Break	Low	Crack Sealing – PCC
	Medium	PCC Full Depth Patch
	High	PCC Full Depth Patch
LTD Cracking	Low	Crack Sealing – PCC
	Medium	Crack Sealing – PCC
	High	Crack Sealing – PCC
Durability Cracking	Low	Monitor
	Medium	Slab Replacement
	High	Slab Replacement
Joint Seal Damage	Low	Monitor
	Medium	Joint Sealing – PCC
	High	Joint Sealing – PCC
Patching (Large and Small)	Low	Monitor
	Medium	PCC Full Depth Patch
	High	PCC Full Depth Patch
Popouts	N/A	Monitor
Pumping	N/A	Monitor
Scaling	Low	Monitor
	Medium	Slab Replacement
	High	Slab Replacement
Faulting	Low	Monitor
	Medium	Monitor
	High	PCC Partial Depth Patch
Shattered Slab	Low	Crack Sealing – PCC
	Medium	Slab Replacement
	High	Slab Replacement
Shrinkage	N/A	Monitor
Spalling (Joint and Corner)	Low	Monitor
	Medium	PCC Partial Depth Patch
	High	PCC Partial Depth Patch



Table D-3. 2012 Unit Costs for Localized Maintenance Actions, General Aviation Airports.

Maintenance Action	Unit Cost		
	Metro	North	South
AC Patching	\$3.19/sf	\$3.18/sf	\$3.28/sf
Crack Sealing – AC	\$2.02/lf	\$2.02/lf	\$1.95/lf
Crack Sealing – PCC	\$2.71/lf	\$2.71/lf	\$2.71/lf
Joint Sealing – PCC	\$2.71/lf	\$2.71/lf	\$2.71/lf
PCC Partial Depth Patch	\$12.84/sf	\$12.84/sf	\$12.84/sf
PCC Full Depth Patch	\$43.32/sf	\$43.32/sf	\$43.32/sf
Slab Replacement	\$43.32/sf	\$43.32/sf	\$43.32/sf

Table D-4. 2012 Unit Costs for Localized Maintenance Actions, Air Carrier Airports.

Maintenance Action	Unit Cost
AC Patching	\$3.47/sf
Crack Sealing – AC	\$6.25/lf
Crack Sealing – PCC	\$2.71/lf
Joint Sealing – PCC	\$2.71/lf
PCC Partial Depth Patch	\$12.84/sf
PCC Full Depth Patch	\$43.32/sf
Slab Replacement	\$43.32/sf

Table D-5. 2012 Unit Costs for Global Maintenance Actions, General Aviation Airports.

Maintenance Action	Unit Cost		
	Metro	North	South
Single Surface Treatment	\$0.26/sf	\$0.12/sf	\$0.19/sf
Pavement Rejuvenator	\$0.22/sf	\$0.22/sf	\$0.22/sf

Table D-6. 2012 Unit Costs for Global Maintenance Actions, Air Carrier Airports.

Maintenance Action	Unit Cost
Single Surface Treatment	\$0.43/sf
Pavement Rejuvenator	\$0.22/sf

Table D-7. 2012 Major Rehabilitation Unit Costs Based on PCI Ranges for Asphalt-Surfaced Pavements.

Type of Airport <sup>1</sup>	PCI Range							
	0 – 29	30 – 39	40 – 49	50 – 59	60 – 69	70 – 79	80 – 89	> 89
G.A., Metro	\$6.09/sf	\$6.09/sf	\$6.85/sf	\$1.96/sf	\$1.96/sf	\$1.96/sf	\$1.96/sf	\$1.96/sf
G.A., North	\$5.14/sf	\$5.14/sf	\$5.38/sf	\$1.71/sf	\$1.71/sf	\$1.71/sf	\$1.71/sf	\$1.71/sf
G.A., South	\$5.00/sf	\$5.00/sf	\$5.42/sf	\$1.87/sf	\$1.87/sf	\$1.87/sf	\$1.87/sf	\$1.87/sf
Air Carrier	\$6.52/sf	\$6.52/sf	\$2.62/sf	\$2.62/sf	\$2.62/sf	\$2.62/sf	\$2.62/sf	\$2.62/sf

<sup>1</sup>G.A. = General Aviation

Table D-8. 2012 Major Rehabilitation Unit Costs Based on PCI Ranges for PCC-Surfaced Pavements.

Type of Airport <sup>1</sup>	PCI Range							
	0 – 29	30 – 39	40 – 49	50 – 59	60 – 69	70 – 79	80 – 89	> 89
G.A., Metro	\$9.50/sf	\$9.50/sf	\$1.96/sf	\$1.96/sf	\$1.96/sf	\$1.96/sf	\$1.96/sf	\$1.96/sf
G.A., North	\$9.87/sf	\$9.87/sf	\$1.71/sf	\$1.71/sf	\$1.71/sf	\$1.71/sf	\$1.71/sf	\$1.71/sf
G.A., South	\$9.71/sf	\$9.71/sf	\$1.87/sf	\$1.87/sf	\$1.87/sf	\$1.87/sf	\$1.87/sf	\$1.87/sf
Air Carrier	\$9.68/sf	\$9.68/sf	\$2.62/sf	\$2.62/sf	\$2.62/sf	\$2.62/sf	\$2.62/sf	\$2.62/sf

<sup>1</sup>G.A. = General Aviation

## **APPENDIX E**

### **YEAR 2013 MAINTENANCE PLAN ORGANIZED BY SECTION**

Table E-1. 2013 Maintenance Plan Organized by Section.

<b>Branch<sup>1</sup></b>	<b>Section<sup>1</sup></b>	<b>Distress Type<sup>2</sup></b>	<b>Severity</b>	<b>Maintenance Action</b>	<b>Maintenance Quantity</b>	<b>Maintenance Unit</b>	<b>Unit Cost</b>	<b>Estimated Cost</b>
R1735VL	10	L&T Cracking	Medium	Crack Sealing - AC	7,907	Ft	\$6.25	\$49,418
TFVL	10	L&T Cracking	Medium	Crack Sealing - AC	45	Ft	\$6.25	\$279

<sup>1</sup>See Figure 5 for the location of the branch and section.

<sup>2</sup>L&T Cracking = longitudinal and transverse cracking.



## **APPENDIX F**

### **YEAR 2013 MAINTENANCE PLAN ORGANIZED BY REPAIR TYPE**

Table F-1. 2013 Maintenance Plan Organized by Repair Type.

<b>Branch<sup>1</sup></b>	<b>Section<sup>1</sup></b>	<b>Distress Type<sup>2</sup></b>	<b>Severity</b>	<b>Maintenance Action</b>	<b>Maintenance Quantity</b>	<b>Maintenance Unit</b>	<b>Unit Cost</b>	<b>Estimated Cost</b>
R1735VL	10	L&T Cracking	Medium	Crack Sealing - AC	7,907	Ft	\$6.25	\$49,418
TFVL	10	L&T Cracking	Medium	Crack Sealing - AC	45	Ft	\$6.25	\$279

<sup>1</sup>See Figure 5 for the location of the branch and section.

<sup>2</sup>L&T Cracking = longitudinal and transverse cracking.



For more information contact:  
**Georgia Department of Transportation**  
**Aviation Programs**  
600 West Peachtree Street  
Atlanta, Georgia 30308  
Contact phone: 404.631.1990  
Web: [dot.ga.gov/aviation](http://dot.ga.gov/aviation)



Prepared by:

