

# **2023 ODAV Pavement Evaluation Program Valley View Airport**

Estacada, Oregon

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**Prepared for**

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## 1 OVERVIEW

GRI assisted with updating the Oregon Department of Aviation (ODAV) airport pavement management system and developing a five-year plan comprised of maintenance, surface treatment, rehabilitation, and reconstruction projects for the Valley View Airport in Estacada, Oregon. This project was implemented as part of the ODAV and Federal Aviation Administration (FAA) *Oregon Continuous Aviation System Plan*. The information provided in this report ensures compliance with FAA Grant Assurance Number 11, which outlines that an airport shall have an effective airport pavement maintenance-management program in place to receive federal financial assistance for the construction, reconstruction, or repair of airport pavements.

GRI conducted surveys of the airside pavement at Valley View Airport in 2023 in accordance with the procedures of Advisory Circular 150/5380-7B and ASTM International (ASTM) D5340. We uploaded the survey data into the PAVER database and used the software to provide a rapid calculation of the pavement condition index (PCI) rating. The PCI is a numerical indicator that defines the functional condition of the pavement based on visual inspection. The scale ranges from zero to 100, where zero represents a pavement in the worst possible condition with no remaining functional life and 100 represents a pavement in the best possible condition with no defects.

## 2 PAVEMENT INVENTORY

Valley View Airport is located in Estacada, Oregon, and is owned and operated by 5 Sierra 9, LLC. The airport consists of a single runway, a primary taxiway, multiple connector taxiways, and an apron that serves a variety of general aviation aircraft. The general location of the airport is shown below on the Valley View Airport Location Map, Figure 2.1.



**Figure 2.1: VALLEY VIEW AIRPORT LOCATION MAP**

The airside pavements at the Valley View Airport are comprised of asphalt concrete (AC). The airport pavements, delineated by surface type and branch use, are shown on the Valley View Airport Percent of Pavement Area by Surface Type, Figure 2.2, and on the Valley View Pavement Area by Branch Use, Figure 2.3. The pavement inventory, including work history for each pavement section, is displayed spatially on the Valley View Airport Pavement Inventory, Figure 2.4. The pavement facilities summarized by branch and section are listed in Tables 1A and 2A, respectively, in Appendix A. The sample unit layout for each section is shown on Figure 1A in Appendix A. We used the sampling rates outlined in Table 3A of Appendix A in our survey. The pavement inventory, including work history for individual airport pavement sections, is provided in the work history report, Table 1F.

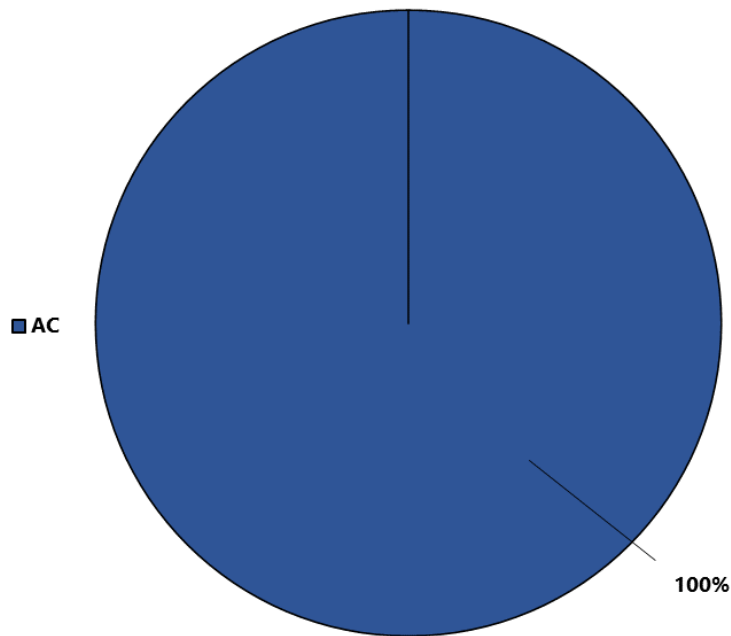


Figure 2.2: VALLEY VIEW AIRPORT PERCENT OF PAVEMENT AREA BY SURFACE TYPE

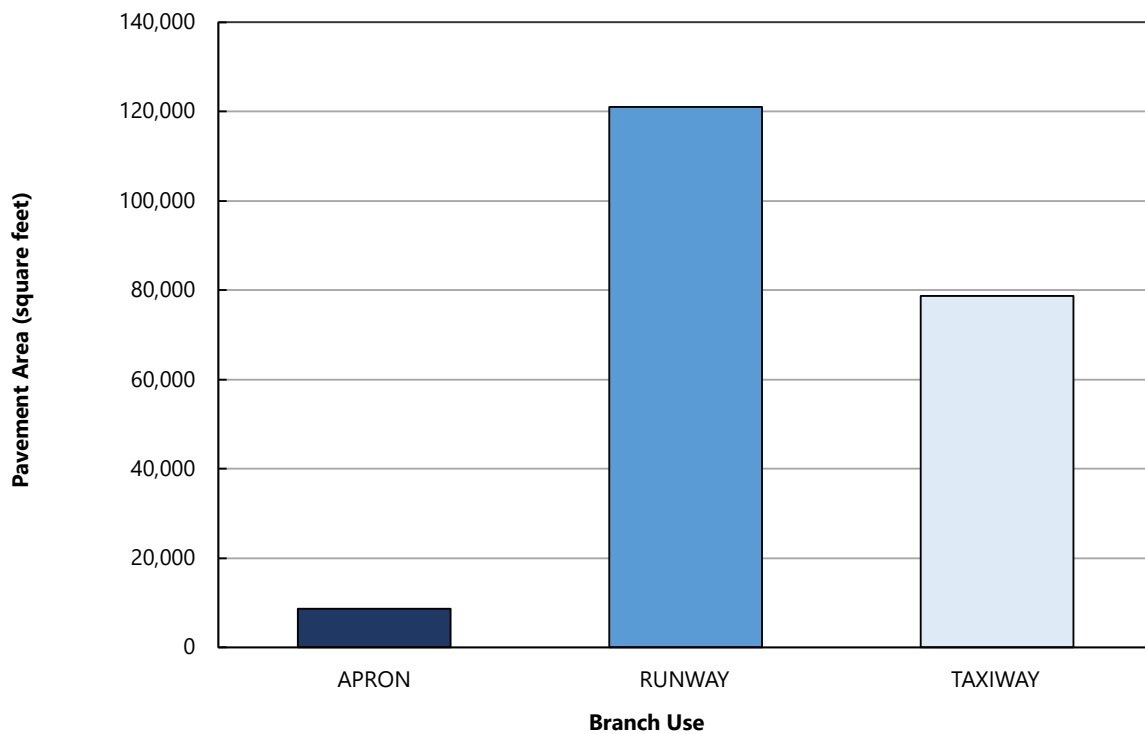
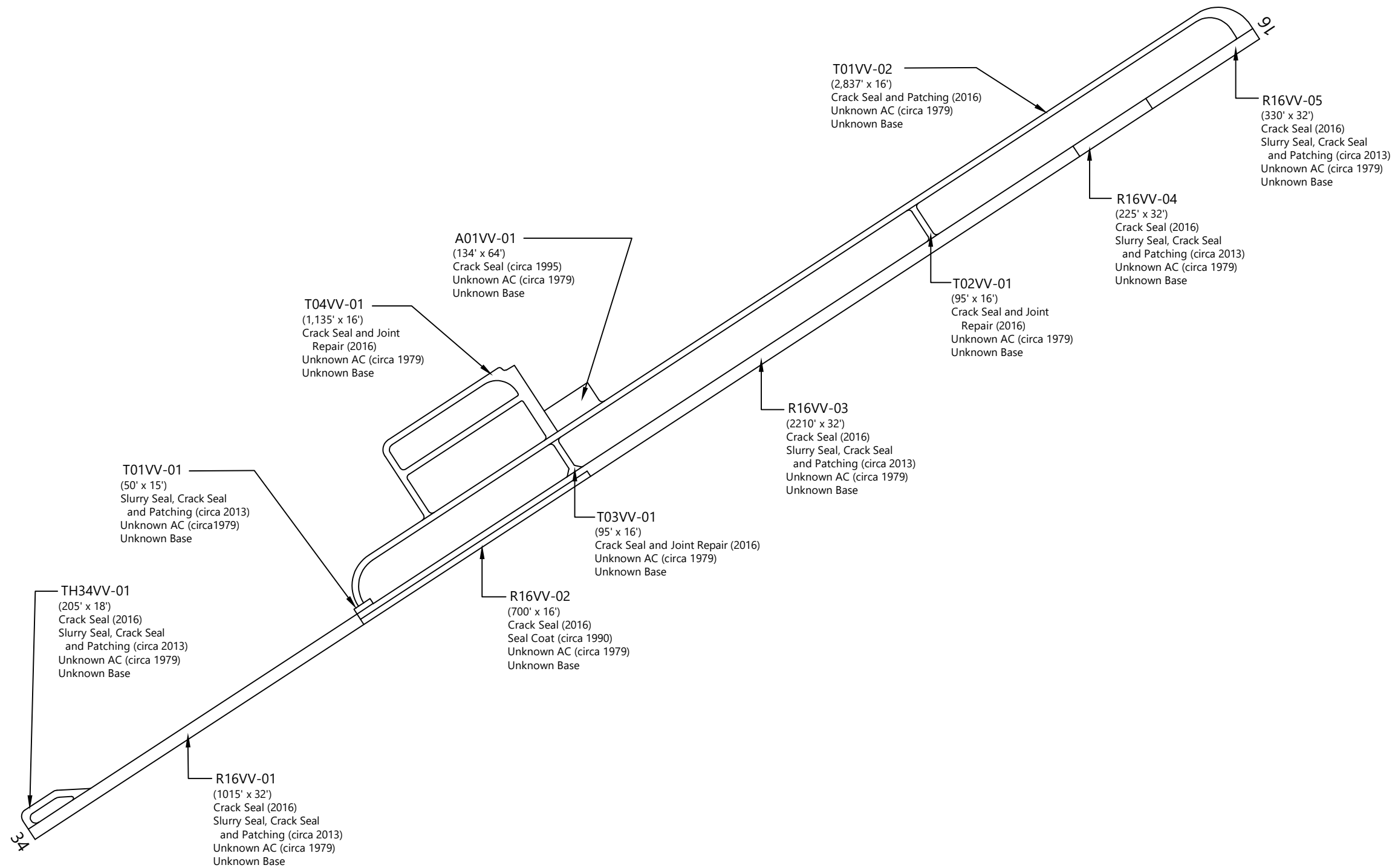
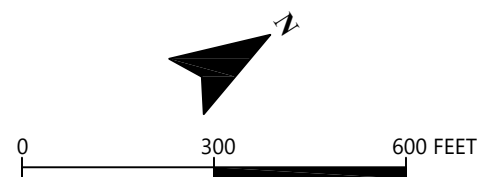


Figure 2.3: VALLEY VIEW AIRPORT PAVEMENT AREA BY BRANCH USE



ABBREVIATION: AC = ASPHALT CONCRETE






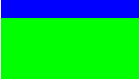



## 3 PAVEMENT CONDITION INSPECTION RESULTS

### 3.1 Introduction

GRI conducted a visual PCI survey of the airside pavements at Valley View Airport in July 2023. The 2023 survey work was performed on sections last inspected in 2018 in order to update the Valley View Airport inspection data. GRI performed the 2023 PCI survey in accordance with the methods described in FAA Advisory Circular 150/5380-6C and ASTM D5340 and further discussed in Appendix B of this report.

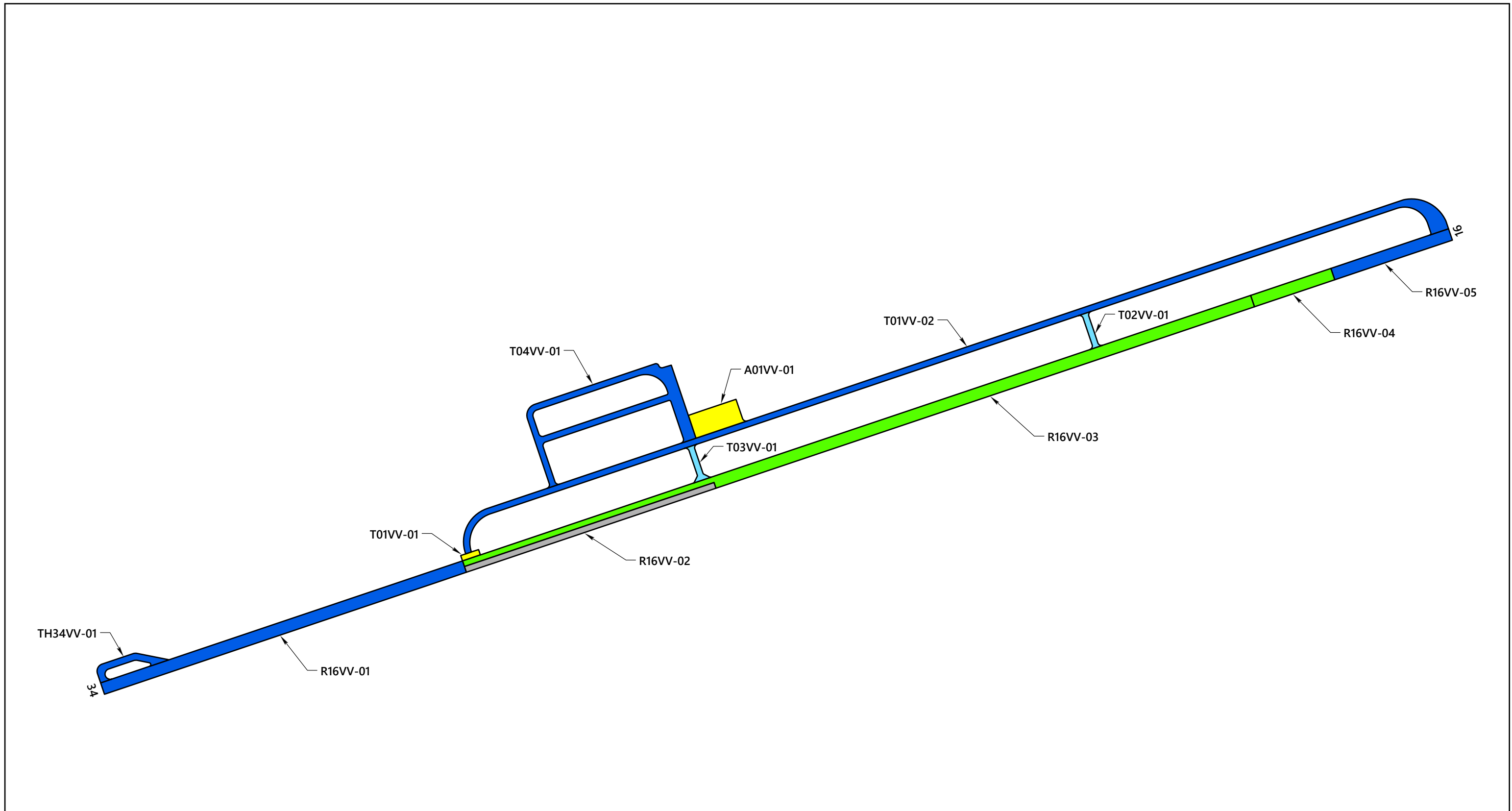
The PCI is based on the type, severity, and quantity of each distress found in an inspected sample unit. Further discussion of distress types for flexible pavement is provided in Appendix B and summarized in Table 1B in Appendix B. The results of the PCI survey are displayed using a seven-category rating scale in accordance with ASTM D5340. Details of the ASTM PCI rating scale are provided in Table 3-1 below.

**Table 3-1: ASTM PCI RATING SCALE**

PCI Color Legend	PCI Range	PCI Rating and Definition
	86 – 100	GOOD: Pavement has minor or no distresses and should require only routine maintenance.
	71 – 85	SATISFACTORY: Pavement has scattered low-severity distresses that should require only routine maintenance.
	56 – 70	FAIR: Pavement has a combination of generally low- and medium-severity distresses. Maintenance and repair needs may range from routine to major.
	41 – 55	POOR: Pavement has low-, medium-, and high-severity distresses that probably cause some operational problems. M&R needs will be major.
	26 – 40	VERY POOR: Pavement has predominantly medium- and high-severity distresses that cause considerable maintenance and operational problems. M&R needs will be major.
	11 – 25	SERIOUS: Pavement has mainly high-severity distresses that may affect operational safety; immediate repairs are needed.
	0 – 10	FAILED: Pavement deterioration has progressed to the point that safe aircraft operations are no longer possible; complete reconstruction is required.

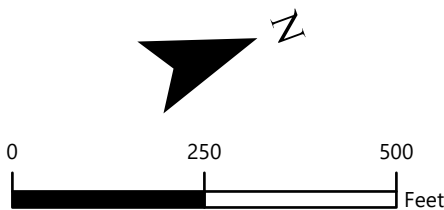
### 3.2 Pavement Condition Index Survey Results

The area-weighted average PCI for all airport pavements at Valley View Airport is approximately 58. The section PCIs ranged from a low of 20 to a high of 75. The primary distresses observed during the inspection were weathering, longitudinal and transverse cracking, fatigue (alligator) cracking, block cracking, raveling, and patching on AC-surfaced pavements. Section PCIs following our pavement survey are displayed below spatially on the Valley View Airport 2023 PCI Survey Results, Figure 3.1.



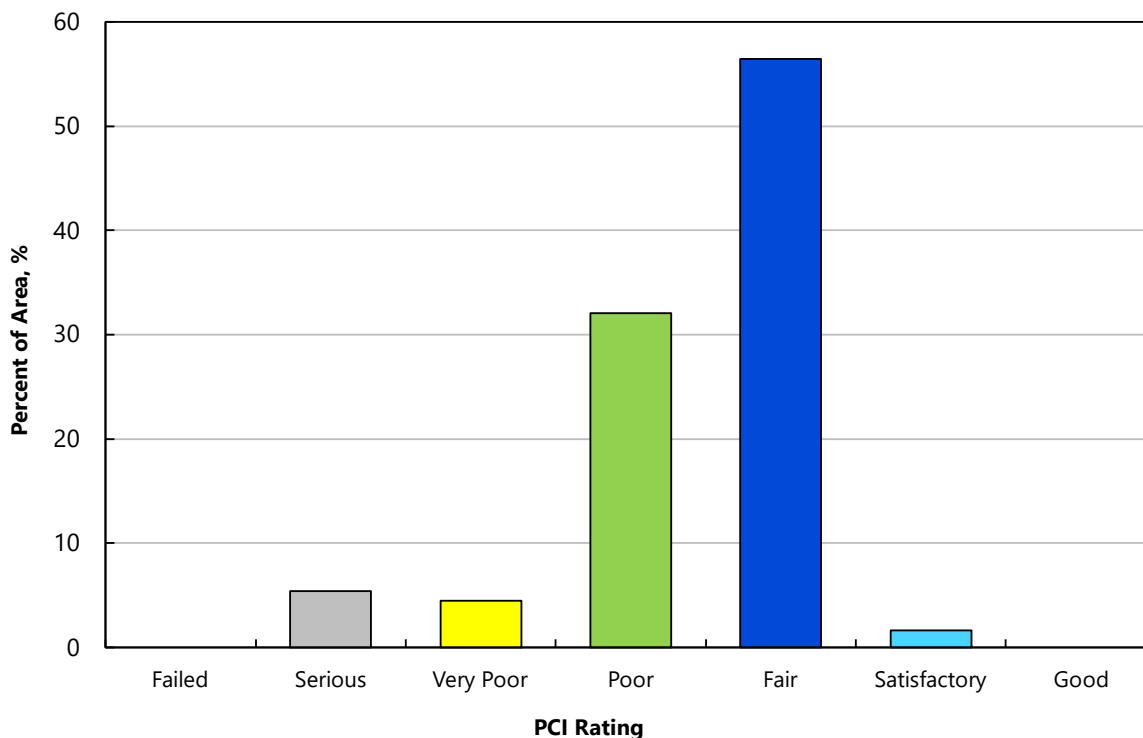
SECTION PCI

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





The condition distribution of the network by percent of total pavement area is provided on the Valley View Airport Pavement Condition Rating by Percent of Area, Figure 3.2. A summary of the pavement condition results by branch and section is included in Tables 2B and 3B of Appendix B, respectively. A comparison between the previous inspection and the 2023 inspection is provided in Table 4B in Appendix B. The re-inspection report that includes inspection details for individual sample units is provided in Table 1E in Appendix E.



**Figure 3.2: VALLEY VIEW AIRPORT PAVEMENT CONDITION RATING BY PERCENT OF AREA**

## **4 FUTURE PAVEMENT CONDITION ANALYSIS**

### **4.1 Introduction**

In addition to assessing the current condition of a pavement, it is very important from a planning standpoint to be able to predict with reasonable accuracy the future condition. Additional details regarding our future pavement condition analysis, including pavement condition prediction models, are provided in Appendix C. PCI performance curves developed for Valley View Airport are displayed on Figures 1C through 4C in Appendix C.

### **4.2 Future Condition Analysis**

Using the condition prediction models discussed above, the projected condition of each pavement section was determined for 5- and 10-year periods. Based on this analysis, we project the PCI to decrease from a current value of 58 to a value of 41 in 2028 and 21 in 2033 if no maintenance or rehabilitation work is performed. The projected pavement condition in 5 years and 10 years for each pavement section at Valley View Airport is displayed spatially on the Valley View Airport Future Pavement Condition, Figure 4.1, and listed in Table 1C in Appendix C, along with the past and present PCI values for the pavement network.

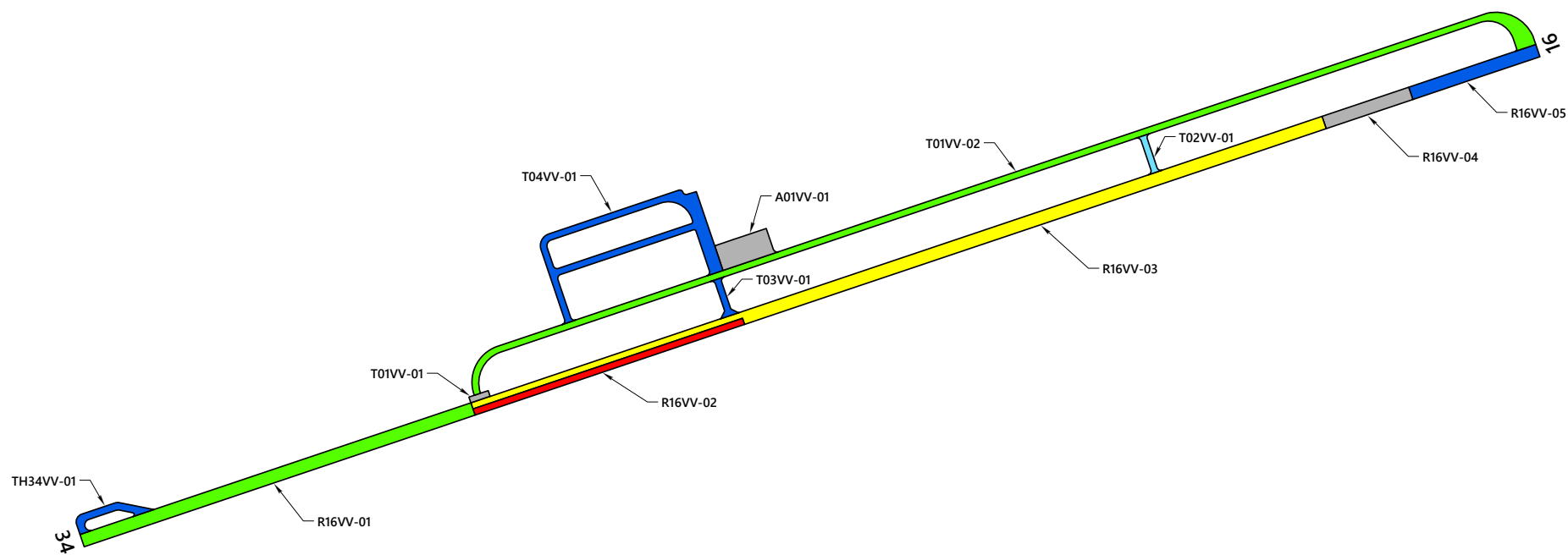
### **4.3 Functional Remaining Life**

Functional remaining life is the practical amount of time a pavement is in service before requiring rehabilitation, as estimated solely based on visual condition. This is not to be confused with structural remaining life, which requires analysis of the structural capacity of a pavement and typically a field exploration and testing program that includes core explorations and falling weight deflectometer (FWD) deflection tests.

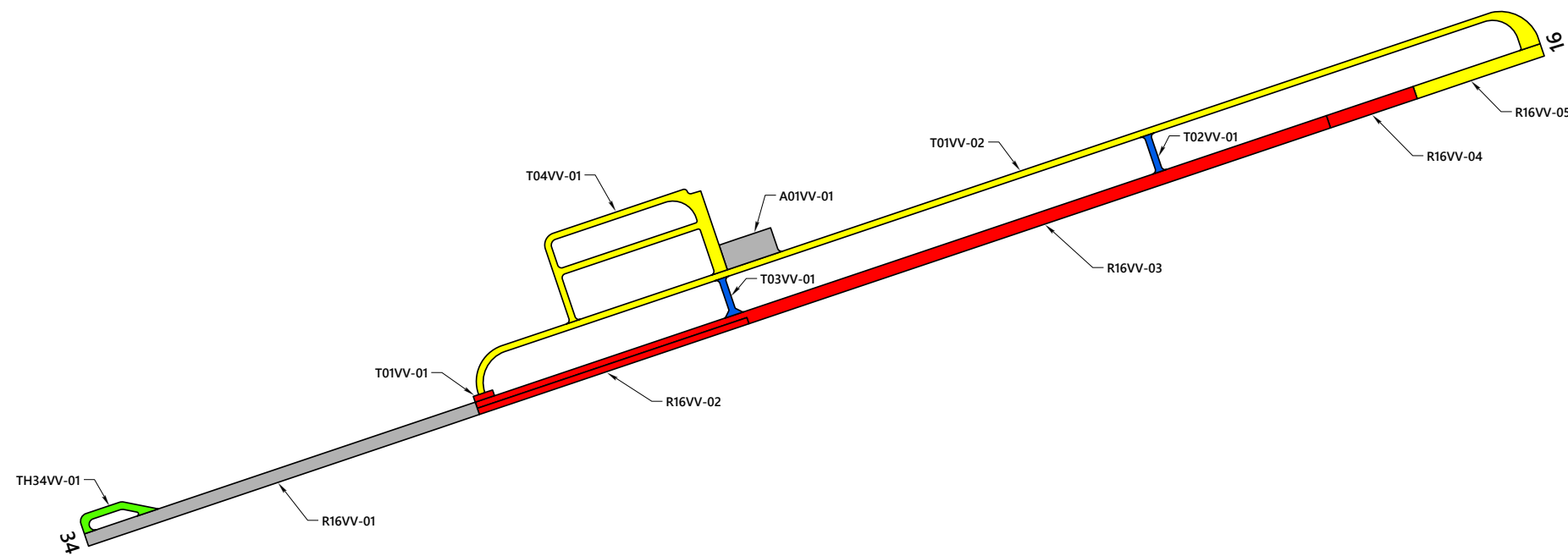
We calculated two forms of functional remaining life based on the current visual condition surveys of the pavement at Valley View Airport. The first type of functional remaining life is the time until rehabilitation, such as an overlay, is needed. The critical PCI, further discussed in Section C.3 of Appendix C, is the threshold used for this type of functional remaining-life analysis. The second type of functional remaining life is the time until the pavement is no longer operational due to high foreign object debris (FOD) potential and increased safety concerns for trafficking aircraft. A PCI of 40 was set as the trigger point for the end of the pavement's functional service life with regard to FOD potential.

The two types of functional remaining life for each section at Valley View Airport are summarized in Table 2C in Appendix C.

PREDICTED CONDITION IN 2028

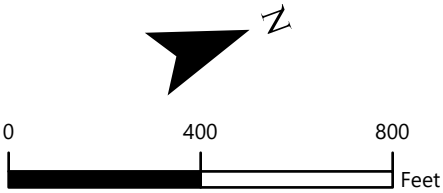


PREDICTED CONDITION IN 2033



SECTION PCI

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



## 5 MAINTENANCE AND REHABILITATION PROJECT RECOMMENDATIONS

### 5.1 Introduction

We evaluated M&R needs, as determined from the PAVER analysis results, in order to develop localized maintenance, surface treatment, rehabilitation, and reconstruction needs. Details of our M&R work priority and unit costs for work activities are provided in Tables 1D and 2D, respectively, in Appendix D.

### 5.2 Recommended Localized Maintenance

Localized maintenance refers to activities such as crack sealing and patching, which should be performed annually in order to properly maintain aging pavements. Using the PAVER Localized Distress Maintenance Analysis tool, we developed a list of recommended localized maintenance. This list is shown in Table 3D in Appendix D and is independent of the surface treatments, rehabilitation, and reconstruction projects associated with the five-year surface treatment and rehabilitation work plan. A summary of total localized maintenance quantities is provided in Table 5-1 below.

**Table 5-1: LOCALIZED MAINTENANCE QUANTITIES**

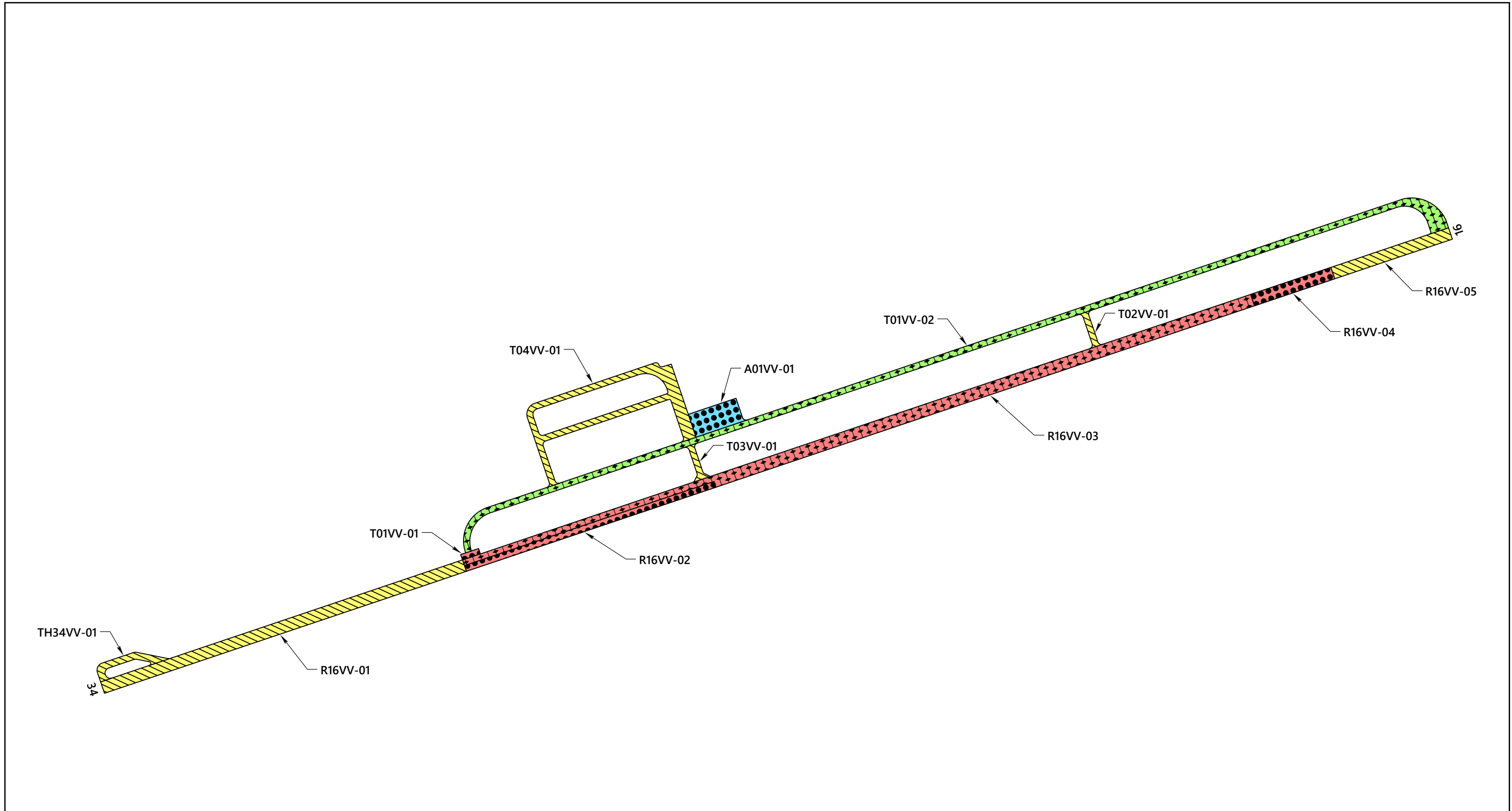
Localized Maintenance Operation	Quantity
Asphalt Concrete Crack Sealing	14,771 linear feet
Asphalt Concrete Wide Crack Sealing	73 linear feet
Asphalt Concrete Full-Depth Patching	837 square feet

### 5.3 Surface Treatment, Rehabilitation, and Reconstruction Plan

To develop the five-year work plan, we first ran the eliminate backlog scenario with the PAVER M&R Work Planning Module in order to generate a list, organized by year, of surface treatment, rehabilitation, and reconstruction projects. We then reviewed the project list and refined it into practical construction projects for each year. A summary of surface treatment, rehabilitation, and reconstruction quantities is provided in Table 5-2 below, and maps of the project locations by year are shown on the 5-Year Pavement Management Plan Valley View Airport, Figure 5.1. The complete list of recommended surface treatment, rehabilitation, and reconstruction projects is presented in Table 4D in Appendix D.

**Table 5-2: SURFACE TREATMENT, REHABILITATION, AND RECONSTRUCTION QUANTITIES**

Treatment Type	Quantity, square feet
Reconstruction	27,737
Overlay	107,764
Fog Seal	0
Slurry Seal	72,695

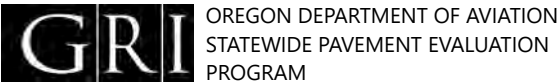
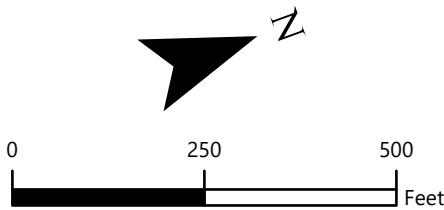


**ACTION TIMING**

- 2024
- 2025
- 2026
- 2027
- 2028

**ACTION**

- FOG SEAL
- SLURRY SEAL
- OVERLAY
- RECONSTRUCTION
- ROUTINE MAINTENANCE



**VALLEY VIEW AIRPORT**  
**5-YEAR PAVEMENT MANAGEMENT PLAN**

## 6 LIMITATIONS

This report has been prepared to assist the Oregon Department of Aviation (ODAV) with pavement-related project planning for the Valley View Airport. The scope is limited to the specific pavement areas described within this report. The conclusions and recommendations provided in this report are based on information provided by ODAV, estimated costs, and an understanding of the pavement conditions based solely on visual assessment. The surface treatment, rehabilitation, and reconstruction recommendations and project selections provided in this report, as well as their corresponding cost estimates, are based on a practical grouping of projects and an estimate of the structural requirements. It is possible that recommendations based on a structural evaluation would differ materially from the recommendations given within this report. Therefore, the information included in this report should be used solely for project planning purposes, and it should be understood that rehabilitation costs may vary from the cost estimates given within this report.

Because the condition of the airport pavement network is dynamic, an effective maintenance and rehabilitation program should be reviewed and updated on a regular basis. In addition to regularly surveying and updating the pavement condition, completed construction activities should be tracked in the PAVER database. If Valley View Airport would like to know more about the results presented in this report, please contact the undersigned.

Submitted for GRI,



RENEWS: 06/2025

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This document has been submitted electronically.

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## **APPENDIX A**

### *Pavement Inventory Reports and Maps*

## APPENDIX A

### PAVEMENT INVENTORY REPORTS AND MAPS

#### A.1 PAVEMENT NETWORK

Valley View Airport is located in Estacada, Oregon, and is owned and operated by 5 Sierra 9, LLC. The pavement network/facilities at Valley View Airport serve a variety of general aviation aircraft. Valley View Airport consists of a single runway, a primary taxiway, multiple connector taxiways, and an apron. Airside pavements are comprised of asphalt concrete (AC).

The current airport pavement management system (APMS) network at Valley View Airport has an approximate area of 208,196 square feet of paved airside facilities. The pavement network has previously been divided (by others) into a hierarchical order of branches, sections, and sample units that facilitate inspection and maintenance planning. The pavement facilities summarized by branch and section are listed in Tables 1A and 2A, respectively. Pavement sections and the sample unit layout for each section are shown on Figure 1A in this appendix.

#### A.2 BRANCHES

A branch, as defined in the PAVER system, is a facility that is a readily identifiable part of the pavement system and has a distinct function. For airports, branches typically consist of individual runways, taxiways, and aprons. The current pavement network for Valley View Airport contains 7 branches, tabulated in Table 1A and shown on Figure 1A.

#### A.3 SECTIONS AND SAMPLE UNITS

A pavement section is the smallest management unit used when considering the application and selection of maintenance and rehabilitation (M&R) repairs and treatments and is defined by Section 2.1.8 of ASTM International (ASTM) D5340 as “*a contiguous pavement area having uniform construction, maintenance, usage history, and condition.*” All sections should also have the same traffic volume and load intensity. The current pavement network included in the PAVER database for Valley View Airport contains 12 sections that are privately managed by 5 Sierra 9, LLC, which are tabulated in Table 2A and shown spatially on Figure 1A.

PAVER assigns a rank, which designates that pavement’s prioritization in receiving maintenance and repair. The highest use or priority pavements, such as runways, taxiways, and terminal aprons, are ranked *Primary*, while the surrounding aprons and shoulders are ranked *Secondary* and low-use areas are ranked *Tertiary*. The ranks for all sections are shown on Table 2A.



To facilitate the visual survey of the airport pavement, each section is further subdivided into smaller areas called sample units. Similar sizing of these units is critical, and studies have found that maintaining the size of the sample units to within 40% of the established normal distribution reduces the standard error of the average pavement condition index (PCI) values. To meet this criterion, the ASTM method recommends sample units for flexible pavements be  $5,000 \pm 2,000$  square feet. The delineation of sample units for each section is displayed on Figure 1A.

#### A.4 SAMPLE UNIT DELINEATION

For an APMS survey, a PCI confidence level of 92% and an allowable error (e) of eight PCI points are used for all airport pavements. To determine the number of sample units that need to be inspected to achieve the required confidence level and allowable error, the following equation is used:

$$n = \frac{N \times s^2}{\left(\frac{e^2}{4}\right)(N-1) + s^2} \quad \text{(Equation 1)}$$

where:

- n = number of sample units to be inspected
- N = total number of samples in the pavement sections
- e = allowable error
- s = section standard deviation

For the 2023 Valley View Airport PCI survey, Table 3A was used as a guideline in developing sampling rates for flexible pavement that reflect similar rates used for other large airport pavement networks. In general, this sampling rate distribution provides a 92% confidence level with a standard error of eight PCI points.

Sample unit locations at Valley View Airport were selected using a systematic random sampling model method. This technique is implemented by first determining the number of sample units needed based on the confidence interval calculated using Equation 1. The first sample unit is randomly placed in the section and then the remaining sample units are systematically spaced throughout the section at an equal distance apart.

**Table 1A: VALLEY VIEW AIRPORT PAVEMENT BRANCHES**

Facility Designation (Branch ID)	Branch Name	Number of Sections	Approximate Area, square feet
A01VV	Apron 01 Valley View	1	8,597
R16VV	RW 16/34 Valley View	5	120,970
T01VV	Taxiway 01 Valley View	2	48,974
T02VV	Taxiway 02 Valley View	1	1,606
T03VV	Taxiway 03 Valley View	1	1,790
T04VV	Taxiway 04 Valley View	1	22,388
TH34VV	TW R34 Hold Valley View	1	3,871

**Table 2A: VALLEY VIEW AIRPORT CURRENT PAVEMENT INVENTORY**

BranchID	Branch Name	Branch Use	SectionID	From	To	Rank	Length, feet	Width, feet	Approximate Area, square feet	LCD	Surface Type
A01VV	Apron 01 Valley View	APRON	01	Taxiway 01	Taxiway 04	P	134	64	8,597	8/2/1979	AC
R16VV	RW 16/34 Valley View	RUNWAY	01	Runway 34 End (South)	Section 02	P	1,015	32	32,480	8/2/1979	AC
R16VV	RW 16/34 Valley View	RUNWAY	02	Section 01	Section 03	P	700	16	11,200	8/2/1979	AC
R16VV	RW 16/34 Valley View	RUNWAY	03	Section 01	Section 04	P	2,210	32	59,530	8/2/1979	AC
R16VV	RW 16/34 Valley View	RUNWAY	04	Section 03	Section 05	P	225	32	7,200	8/2/1979	AC
R16VV	RW 16/34 Valley View	RUNWAY	05	Section 04	Runway 16 End (North)	P	330	32	10,560	8/2/1979	AC
T01VV	Taxiway 01 Valley View	TAXIWAY	01	Runway 16/34	Section 02	P	50	15	740	8/2/1979	AC
T01VV	Taxiway 01 Valley View	TAXIWAY	02	Section 01	Runway 16 End (North)	P	2,837	16	48,234	8/2/1979	AC
T02VV	Taxiway 02 Valley View	TAXIWAY	01	Runway 16/34	Taxiway 01	P	95	16	1,606	8/2/1979	AC
T03VV	Taxiway 03 Valley View	TAXIWAY	01	Runway 16/34	Taxiway 01	P	95	16	1,790	8/2/1979	AC
T04VV	Taxiway 04 Valley View	TAXIWAY	01	Taxiway 01	Hangars	S	1,135	16	22,388	8/2/1979	AC
TH34VV	TW R34 Hold Valley View	TAXIWAY	01	Runway 34 End (South)	0	P	205	18	3,871	8/2/1979	AC

Abbreviations:

P = Primary pavement, S = Secondary pavement

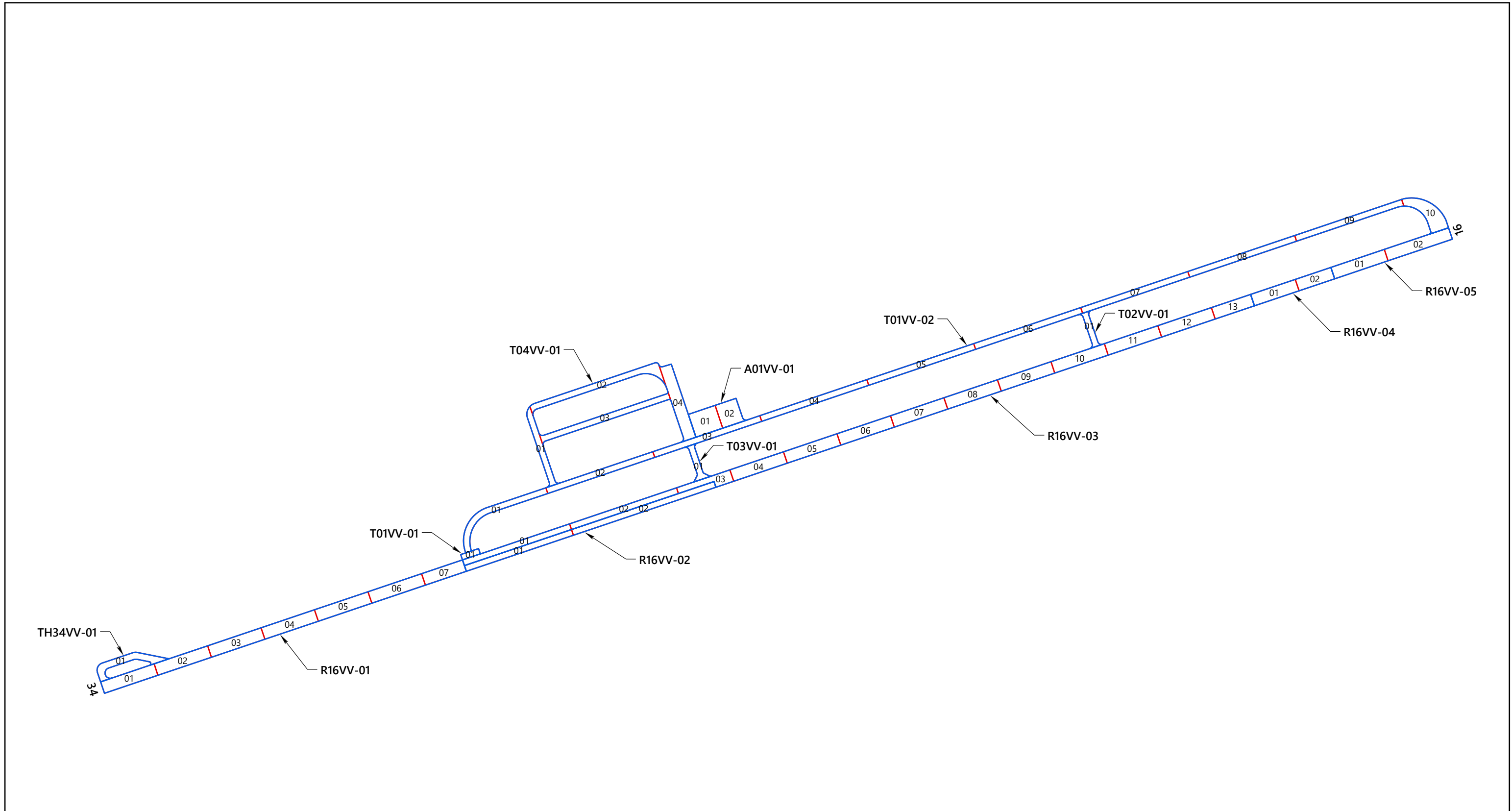
LCD = Last Construction Date. The date of the last major rehabilitation (e.g. overlay)

AC = Asphalt Concrete

**Table 3A: EXAMPLE SAMPLE RATES FOR AC PAVEMENTS**

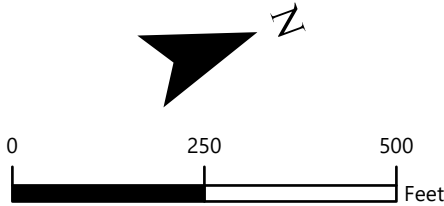
AC Sampling Rate	
Total Number of Sample Units, N	Sample Units to Survey, n
1	1
2-3	2
4-6	3
7-13	4
14-38	5
39+	6

**Note:** AC = Asphalt Concrete



**LEGEND**

- SECTION
- SAMPLE UNIT



**VALLEY VIEW AIRPORT  
SAMPLE UNIT LAYOUT**

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## **APPENDIX B**

### *Pavement Condition Index Survey Results*

## APPENDIX B

### PAVEMENT CONDITION INDEX SURVEY RESULTS

#### B.1 METHODOLOGY

As previously discussed, the PCI is a measure of the pavement's functional surface condition and provides a methodology for assessing the causes of distress and whether the distress is related to a load or climatic conditions. Although the PCI is not a direct measure of structural capacity, it provides a suggestion of the structural needs of the pavement.

The PCI is based on the type, severity, and quantity of each distress found in an inspected sample unit. The results are displayed using a seven-category rating scale in accordance with ASTM D5340. Flexible pavement (e.g., AC and AAC) distress types are presented in Table 1B. A summary of the pavement condition results by branch and section is included in Tables 2B and 3B of Appendix B, respectively.

**Table 1B: PAVER DISTRESS CODES FOR FLEXIBLE PAVEMENT**

Flexible Pavement		
PAVER Code	Pavement Distress	Related Cause
41	Alligator Cracking	Load
42	Bleeding	Other
43	Block Cracking	Climate/ Durability
44	Corrugation	Other
45	Depression	Other
46	Jet Blast	Other
47	Joint Reflection Cracking	Climate/ Durability
48	Longitudinal & Transverse Cracking	Climate/ Durability
49	Oil Spillage	Other
50	Patching	Climate/ Durability
51	Polished Aggregate	Other
52	Raveling	Climate/ Durability
53	Rutting	Load
54	Shoving	Other
55	Slippage Cracking	Other
56	Swelling	Other
57	Weathering	Climate/ Durability

To obtain the section PCI, we extrapolated the PCI of each selected sample unit over the entire section area. Distresses found in sample units classified as “additional”– defined as nonrepresentative instead of random- are not extrapolated over the entire section but merely added to the extrapolated quantity. The PCI rating scale presented previously in Table 3-1 of Section 3.1 is based on ASTM D5340.

Section 4.1 of ASTM D5340, governing PCI surveys, offers this caution:

“The PCI is a numerical indicator that rates the surface condition of the pavement. The PCI provides a measure of the **present condition** of the pavement based on the distress observed on the surface of the pavement, which also indicates the structural integrity and surface operational condition (localized roughness and safety). The PCI **cannot** measure structural capacity, nor does it provide a direct measurement of skid resistance or roughness. It provides an objective and rational basis for determining maintenance and repair needs and priorities. Continuous monitoring of the PCI is used to establish the rate of pavement deterioration, which permits the early identification of major rehabilitation needs. The PCI provides feedback on pavement performance for validation or improvement of current pavement design and maintenance procedures.”

Based on the limitations of the PCI method, it is imperative that engineers and planners treat the PCI as a tool that will assist them during the M&R planning process. Any major project should always be preceded by an up-to-date, detailed, 100% project-level inspection of the pavement in order to reevaluate maintenance needs prior to the project design process.

## B.2 DISTRESS TYPES

Distress tends to fall into one of the following four cause categories:

- **Load-related:** Flexible pavement distresses include alligator/fatigue cracking, corrugation, depression, polished aggregate, rutting, and slippage cracking.
- **Climate- and durability-related:** Flexible pavement distresses include bleeding, block cracking, joint reflection cracking, longitudinal and transverse (L&T) cracking, swelling, and raveling/weathering.
- **Moisture- and drainage-related:** Flexible pavement distresses include alligator/fatigue cracking, depressions, potholes, and swelling.
- **Other factors:** Includes oil spillage, jet blast erosion, bleeding, and patching.



As described above, distress may be the result of more than one cause. For example, depressions may be caused by incorrect compaction during construction or by subgrade softening due to environmental factors. In addition, distress may be initiated by one cause but may progress to a distress of higher severity by another cause. Therefore, engineering judgment is critical in analyzing the actual cause or causes of the distress.

### **B.3 PAVEMENT CONDITION INDEX SURVEY RESULTS**

The evaluated Valley View Airport pavement network consists of 7 branches and 12 sections. A total of 29 sample units were visually inspected in the field. Data from the inspected sample units was input into the PAVER database, and a resultant PCI for each section was computed. Additional details regarding the PCI and distress types observed for each surveyed sample unit are provided in the re-inspection report, Table 1E, in Appendix E. Based on the 2023 PCI survey, the area-weighted average PCI for the entire pavement network at Valley View Airport is approximately 58, which corresponds to a PCI rating of Fair.

To investigate the rate of deterioration of each pavement section, we compared the PCI results from the 2023 survey to the PCI results from the previous inspection. The variation in PCI between inspections for Valley View Airport pavement sections is outlined in Table 4B in this appendix.

**Table 2B: VALLEY VIEW AIRPORT CURRENT BRANCH CONDITION REPORT**

Branch ID	Number of Sections	Approximate Area, square feet	Use	Area Weighted Average Branch PCI	PCI Category
A01VV	1	8,597	APRON	31	Very Poor
R16VV	5	120,970	RUNWAY	55	Poor
T01VV	2	48,974	TAXIWAY	64	Fair
T02VV	1	1,606	TAXIWAY	75	Satisfactory
T03VV	1	1,790	TAXIWAY	71	Satisfactory
T04VV	1	22,388	TAXIWAY	66	Fair
TH34VV	1	3,871	TAXIWAY	70	Fair

Use Category	Number of Sections	Total Area, square feet	Area Weighted Average PCI
APRON	1	8,597	31
RUNWAY	5	120,970	55
TAXIWAY	6	78,629	65
<b>ALL</b>	<b>12</b>	<b>208,196</b>	<b>58</b>

Abbreviation: PCI = Pavement Condition Index

**Table 3B: VALLEY VIEW AIRPORT 2023 PAVEMENT CONDITION INDEX SURVEY RESULTS**

BranchID	SectionID	Last Construction Date	Surface Type	Use	Last Inspection Date	Age at Inspection	PCI	PCI Category	PCI % Climate	PCI % Load	PCI % Other
A01VV	01	8/2/1979	AC	APRON	7/1/2023	44	31	Very Poor	66	34	0
R16VV	01	8/2/1979	AC	RUNWAY	7/1/2023	44	68	Fair	100	0	0
R16VV	02	8/2/1979	AC	RUNWAY	7/1/2023	44	20	Serious	100	0	0
R16VV	03	8/2/1979	AC	RUNWAY	7/1/2023	44	53	Poor	100	0	0
R16VV	04	8/2/1979	AC	RUNWAY	7/1/2023	44	41	Poor	100	0	0
R16VV	05	8/2/1979	AC	RUNWAY	7/1/2023	44	70	Fair	100	0	0
T01VV	01	8/2/1979	AC	TAXIWAY	7/1/2023	44	35	Very Poor	100	0	0
T01VV	02	8/2/1979	AC	TAXIWAY	7/1/2023	44	64	Fair	69	31	0
T02VV	01	8/2/1979	AC	TAXIWAY	7/1/2023	44	75	Satisfactory	100	0	0
T03VV	01	8/2/1979	AC	TAXIWAY	7/1/2023	44	71	Satisfactory	100	0	0
T04VV	01	8/2/1979	AC	TAXIWAY	7/1/2023	44	66	Fair	76	24	0
TH34VV	01	8/2/1979	AC	TAXIWAY	7/1/2023	44	70	Fair	100	0	0

Abbreviations:

PCI = Pavement Condition Index, AC = Asphalt Concrete

**Table 4B: VALLEY VIEW AIRPORT COMPARISON OF PREVIOUS INSPECTION AND 2023 RESULTS**

Approximate Area, square												
Branch ID	Section ID	Surface Type <sup>1</sup>	feet	LCD <sup>2</sup>	2018 Survey			2023 Survey			Rate of Deterioration	
					PCI	PCI Category	Inspection Date	PCI	PCI Category	Age <sup>3</sup>		Δ PCI/yr <sup>4</sup>
A01VV	01	AC	8,597	8/2/79	32	Very Poor	5/10/2018	31	Very Poor	39	-0.19	NORMAL
R16VV	01	AC	32,480	8/2/79	70	Fair	5/10/2018	68	Fair	39	0	NORMAL
R16VV	02	AC	11,200	8/2/79	49	Poor	5/10/2018	20	Serious	39	-5.64	HIGH
R16VV	03	AC	59,530	8/2/79	69	Fair	5/10/2018	53	Poor	39	-3	NORMAL
R16VV	04	AC	7,200	8/2/79	70	Fair	5/10/2018	41	Poor	39	-5.64	HIGH
R16VV	05	AC	10,560	8/2/79	69	Fair	5/10/2018	70	Fair	39	0	NONE
T01VV	01	AC	740	8/2/79	70	Fair	5/10/2018	35	Very Poor	39	-6.80	HIGH
T01VV	02	AC	48,234	8/2/79	64	Fair	5/10/2018	64	Fair	39	0	NONE
T02VV	01	AC	1,606	8/2/79	75	Satisfactory	5/10/2018	75	Satisfactory	39	0.00	NONE
T03VV	01	AC	1,790	8/2/79	79	Satisfactory	5/10/2018	71	Satisfactory	39	-2	NORMAL
T04VV	01	AC	22,388	8/2/79	73	Satisfactory	5/10/2018	66	Fair	39	-1.36	NORMAL
TH34VV	01	AC	3,871	8/2/79	75	Satisfactory	5/10/2018	70	Fair	39	-1	NORMAL

Abbreviations:

<sup>1</sup> AC = Asphalt Concrete, PCI = Pavement Condition Index

<sup>2</sup> LCD = Last construction date. The date of the last major pavement rehabilitation (e.g. AC overlay)

<sup>3</sup> Age = Pavement age in years at the time of the PCI survey in 2018

<sup>4</sup> Δ PCI/yr = Change in PCI points per year between 2018 survey and 2023 survey

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## **APPENDIX C**

### *Future Pavement Condition Analysis*

## APPENDIX C

### PAVEMENT CONDITION ANALYSIS

#### C.1 METHODOLOGY

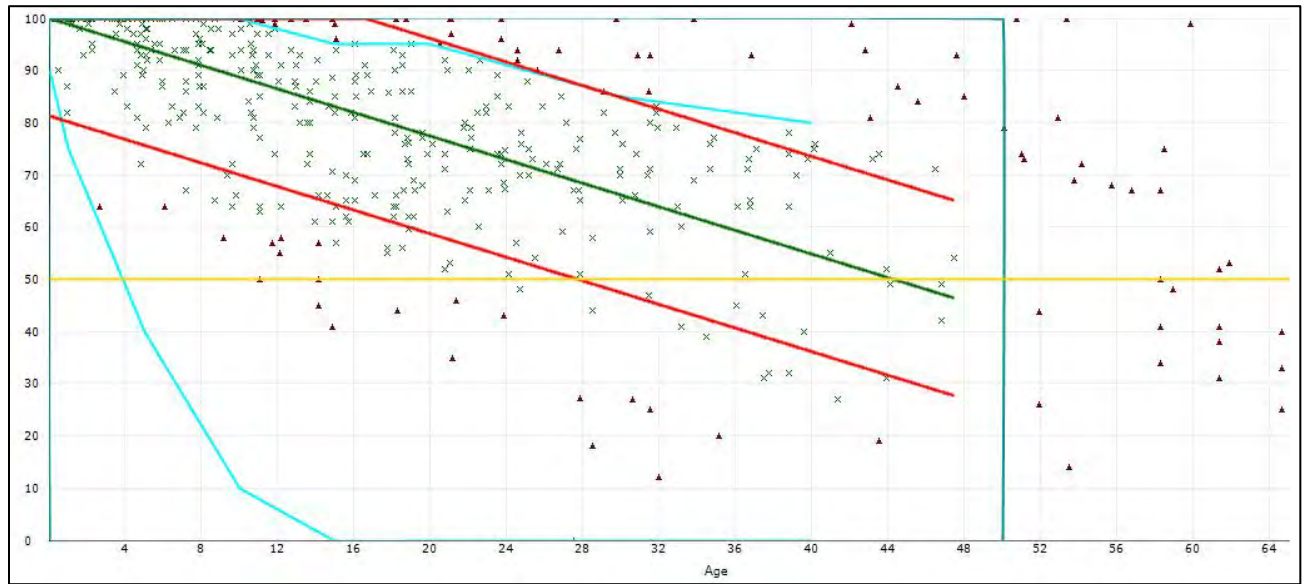
In addition to assessing the current condition of a pavement, it is very important from a planning standpoint to be able to predict with reasonable accuracy its future condition. In a pavement management plan (PMP), this is done with the aid of a prediction model. When an APMS is initially implemented, the default models are typically used to predict the future condition of a pavement. However, after PCI surveys are completed, the historical data are then used to refine the models, so they better represent the deterioration of a particular class of pavement based on local climatic conditions, loading, material sources, construction procedures, etc. The importance of accurate prediction models is part of the reason it is essential to conduct periodic, routine surveys in order to track the rate of deterioration.

In PAVER, the pavement deterioration curves are developed based on the “family” model procedure. A pavement “family” is defined as a group of pavements with similar deterioration characteristics. The procedure for developing the prediction models is:

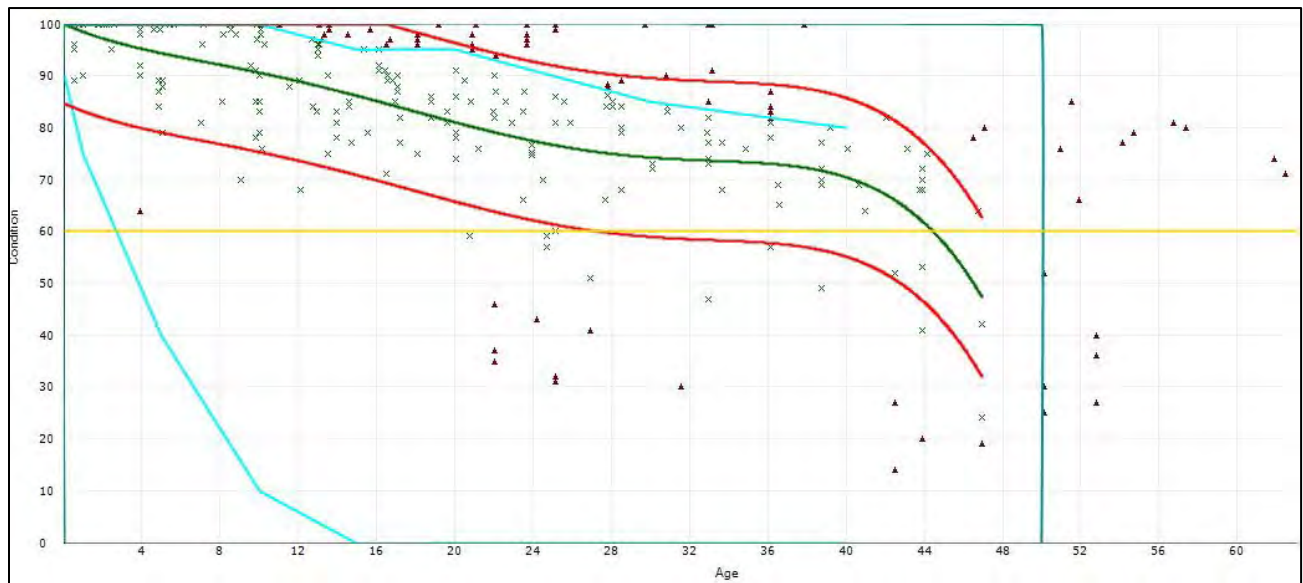
- 1) Define the pavement families.
- 2) Review the data.
- 3) Conduct a data-outlier analysis.
- 4) Model the data.

#### C.2 PREDICTION MODELS

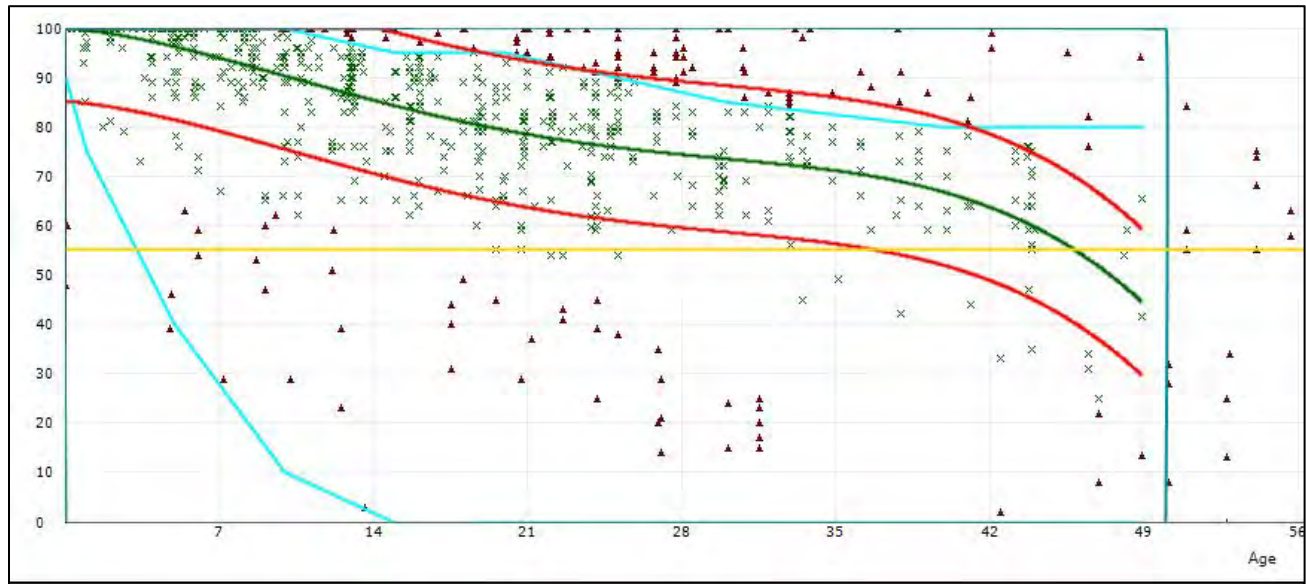
We developed separate condition prediction models for each pavement “family” at Valley View Airport. The delineation is based on branch use, surface type, section rank, and structural design life. We use three distinct models for the following “families” of pavements at Valley View Airport. For each model, we reviewed the data in order to filter out any inconsistent or inaccurate data or any data that fell outside the boundary values set by PAVER. After outliers are removed and the data are checked for accuracy and reasonableness, the PAVER program calculates a best-fit curve using a polynomial-constrained, least-squares analysis procedure. This best-fit curve for each family is used in the analysis to predict the average behavior of all sections within each “family.” Our condition prediction models for each “family” are provided on Figures 1C through 3C below.



**Figure 1C - CONDITION PREDICTION MODEL FOR NORTHWESTERN CATEGORY 4 AC APRONS**



**Figure 2C - CONDITION PREDICTION MODEL FOR NORTHWESTERN CATEGORY 4 AC RUNWAYS**



**Figure 3C - CONDITION PREDICTION MODEL FOR NORTHWESTERN CATEGORY 4 AC TAXIWAYS**

### C.3 CRITICAL PCI

Each of the condition-prediction models has an assigned critical PCI. The critical PCI is the point at which the pavement condition begins to deteriorate more quickly over time. As the condition deteriorates to a worse state, major M&R (rehabilitation/reconstruction) is triggered because the cost to apply localized M&R increases significantly. Pavement sections with PCI above the critical value are given a higher priority for funding during budget analysis in order to prevent them from deteriorating to the point where more costly rehabilitation is necessary. We used the following critical PCI values at Valley View Airport:

- Runways – 60
- Taxiways/Taxilanes – 55
- Aprons – 50

### C.4 FUTURE CONDITION ANALYSIS

As previously discussed, the projected condition of each pavement section was determined for 5- and 10-year periods. The projected pavement conditions in 5 years and 10 years for each pavement section at Valley View Airport, along with the conditions at the previous inspection, are listed in Table 1C.

### C.5 FUNCTIONAL REMAINING LIFE

As mentioned above, functional remaining life is the practical amount of time a pavement is in service before requiring rehabilitation, as estimated based solely on visual condition.



This is not to be confused with structural remaining life, which requires analysis of the structural capacity of a pavement.

We calculated two forms of functional remaining life based on the current visual condition surveys of the pavement at Valley View Airport: the time until rehabilitation and the time until the pavement is no longer operational due to high foreign object debris potential and increased safety concerns for trafficking aircraft (PCI less than 40). The results of the functional life analysis are provided in Table 2C.

**Table 1C: PAST, PRESENT AND FUTURE PCI**

BranchID	SectionID	<u>Past Inspection PCI</u>	<u>Current PCI</u>	<u>Predicted Future PCI</u>	
		2018	2023	2028	2033
A01VV	01	32	31	25	20
R16VV	01	70	68	50	25
R16VV	02	49	20	0	0
R16VV	03	69	53	28	3
R16VV	04	70	41	17	0
R16VV	05	69	70	56	31
T01VV	01	70	35	18	0
T01VV	02	64	64	52	34
T02VV	01	75	75	73	70
T03VV	01	79	71	66	57
T04VV	01	73	66	56	39
TH34VV	01	75	70	64	53

Abbreviation: PCI = Pavement Condition Index

**Table 2C: VALLEY VIEW AIRPORT FUNCTIONAL REMAINING LIFE ANALYSIS**

Branch ID	Section ID	Surface Type	Current PCI	Years to Major M&R	Major M&R Trigger PCI <sup>1</sup>	Years to End of Functional Service Life
A01VV	01	AC	31	0 - 5	50	0 - 5
R16VV	01	AC	68	0 - 5	60	6 - 10
R16VV	02	AC	20	0 - 5	60	0 - 5
R16VV	03	AC	53	0 - 5	60	0 - 5
R16VV	04	AC	41	0 - 5	60	0 - 5
R16VV	05	AC	70	0 - 5	60	6 - 10
T01VV	01	AC	35	0 - 5	55	0 - 5
T01VV	02	AC	64	0 - 5	55	6 - 10
T02VV	01	AC	75	> 20	55	> 20
T03VV	01	AC	71	6 - 10	55	11 - 15
T04VV	01	AC	66	0 - 5	55	6 - 10
TH34VV	01	AC	70	6 - 10	55	11 - 15

Abbreviations:

PCI = Pavement Condition Index, AC = Asphalt Concrete

<sup>1</sup> Major M&R (Maintenance and Rehabilitation) Trigger PCI = Critical PCI

## **APPENDIX D**

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### *Unit Cost Data and Maintenance and Rehabilitation Plan*

## APPENDIX D

### UNIT COST DATA AND MAINTENANCE AND REHABILITATION PLAN

#### D.1 ANALYSIS METHODOLOGY

We evaluated the M&R needs, as determined from the PAVER analysis results, in order to develop project recommendations for the next five years. The purpose of this analysis is to determine the M&R needs of the Valley View Airport pavement network condition over time. We used PAVER v7.0.8 software to develop network-level project recommendations for the next five years.

The PAVER M&R Work Planning Module identifies when and where M&R is required and how much it will cost. M&R plans can be developed either by assuming an annual budget or by identifying specific constraints, such as a condition goal, to determine the budget required to meet the goal. The M&R work planning analysis was based on a five-year period beginning on August 1, 2024. A backlog elimination analysis scenario was selected to generate a list of surface treatment, rehabilitation, and reconstruction projects in order to optimize the allocation of capital and establish preservation-based project recommendations. The repair strategies considered for pavement sections in our analysis are as follows:

- Reconstruction – Considered for pavements with a PCI less than 40.
- Rehabilitation (AC Overlay) – Considered for pavements between 40 PCI and the critical PCI and for pavements exhibiting significant load-related distresses.
- Surface Treatment – Treatments (fog seal, slurry seal, thin AC overlay) are applied to an entire pavement section with the intent of slowing the rate of deterioration.
- Localized Maintenance – Maintenance performed on a routine basis, such as crack sealing, wide crack repair, and patching.

It should be noted that the five-year list of recommended projects only includes the highest-cost maintenance items and does not include routine localized maintenance (e.g., crack sealing) work that should also be conducted in addition to and concurrently with the five-year work plan.

##### D.1.1 Pavement Rank and Use Prioritization

Pavement sections are assigned a rank to establish their relative importance in the overall pavement network, which is most commonly defined by their use (e.g., Taxiway, Apron, Runway). The PAVER analysis uses the combination of the section rank and the branch use

to define the priority of each section during the M&R analysis. Table 1D displays the branch use and section rank prioritization schema we used for analysis.

**Table 1D: M&R WORK PRIORITY BY BRANCH USE AND SECTION RANK**

Branch Use	Section Rank		
	Primary	Secondary	Tertiary
RUNWAY	1	3	6
TAXIWAY	2	5	8
APRON	4	7	9

## D.2 MAINTENANCE POLICIES AND UNIT COSTS

Distress-maintenance policies are policies that determine what type of work should be applied to a specific distress type and severity. For example, on an AC pavement, a medium-severity longitudinal/transverse crack would be repaired by crack sealing. Policies for all the distress types and severities are established by ASTM D5340.

Although our work scope does not include budget analysis, we did assign construction costs to the maintenance work so that PAVER would allocate M&R projects that were approximately equal in costs for each year of the five-year period. The anticipated cost of performing M&R is based on cost tables that relate M&R work type cost to PCI. We reviewed the unit costs from the 2018 report and updated them by reviewing the bid tabulations for recent projects within the vicinity of Valley View Airport and information provided by the ODAV Pavement Maintenance Program (PMP) project team. The costs for reconstruction are based on the existing pavement sections present within each branch use at Valley View Airport. The costs represent the fully-loaded costs and include aspects of the project such as administration, contingencies, mobilization, and striping. The cost tables used in the analysis are presented in Table 2D below.

**Table 2D: REGION 1 UNIT COST DATA**

Type of M&R	Work Type	Unit Cost	Work Unit
Major M&R	Complete Reconstruction with AC	\$17.32	Sq Ft
	Cold Mill and Overlay – 2 Inches Thick	\$7.64	Sq Ft
Surface Treatment (Global) M&R	Surface Treatment - Slurry Seal	\$0.52	Sq Ft
	Surface Treatment - Fog Seal	\$0.31	Sq Ft
Localized Preventive M&R	Crack Sealing - AC	\$3.12	Ft
	Crack Sealing - PCC	\$23.4	Ft
	Crack Sealing – Wide Cracks	\$51.48	Ft
	Joint Sealing – PCC	\$7.80	Ft
	AC Patching – Full Depth	\$78.00	Sq Ft
	PCC Patching – Full Depth	\$156.00	Sq Ft

### **D.3 RECOMMENDED LOCALIZED MAINTENANCE**

In order to properly maintain aging pavements, localized M&R activities such as crack sealing and patching should be performed on a routine basis. A list of recommended localized maintenance activities is provided in Table 3D of this appendix.

### **D.4 RECOMMENDED SURFACE TREATMENT, REHABILITATION, AND RECONSTRUCTION PROJECTS**

Surface treatment, rehabilitation, and reconstruction projects refer to activities such as slurry seal/fog seals, AC overlays, and reconstruction. A list of recommended projects is provided in Table 4D of this appendix.

Table 3D: VALLEY VIEW AIRPORT NETWORK MAINTENANCE REPORT

Branch ID	Section ID	Distress	Severity	Action	Work Quantity	Unit	Unit Cost	Work Cost	Section Total
A01VV	01	Block Cracking	Medium	Crack Sealing - AC	2,514	Ft	\$3.12	\$7,843	\$41,328
A01VV	01	Alligator Cracking	Medium	Patching - AC Deep	429	SqFt	\$78.00	\$33,485	
R16VV	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	1,225	Ft	\$3.12	\$3,821	\$5,621
R16VV	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	577	Ft	\$3.12	\$1,800	
R16VV	02	Long. & Trans. Cracking	Medium	Crack Sealing - AC	111	Ft	\$3.12	\$346	\$4,162
R16VV	02	Long. & Trans. Cracking	Low	Crack Sealing - AC	1,223	Ft	\$3.12	\$3,816	
R16VV	03	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	42	Ft	\$51.48	\$2,171	\$9,739
R16VV	03	Long. & Trans. Cracking	Medium	Crack Sealing - AC	335	Ft	\$3.12	\$1,045	
R16VV	03	Long. & Trans. Cracking	Low	Crack Sealing - AC	2,091	Ft	\$3.12	\$6,524	
R16VV	04	Long. & Trans. Cracking	Medium	Crack Sealing - AC	31	Ft	\$3.12	\$97	\$1,332
R16VV	04	Long. & Trans. Cracking	Low	Crack Sealing - AC	396	Ft	\$3.12	\$1,236	
R16VV	05	Long. & Trans. Cracking	Medium	Crack Sealing - AC	85	Ft	\$3.12	\$265	\$2,262
R16VV	05	Long. & Trans. Cracking	Low	Crack Sealing - AC	640	Ft	\$3.12	\$1,997	
T01VV	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	41	Ft	\$3.12	\$128	\$128
T01VV	02	Long. & Trans. Cracking	Medium	Crack Sealing - AC	138	Ft	\$3.12	\$431	\$38,786
T01VV	02	Long. & Trans. Cracking	Low	Crack Sealing - AC	3,394	Ft	\$3.12	\$10,588	
T01VV	02	Alligator Cracking	Medium	Patching - AC Deep	356	SqFt	\$78.00	\$27,767	
T02VV	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	15	Ft	\$3.12	\$47	\$94
T02VV	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	15	Ft	\$3.12	\$47	
T03VV	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	30	Ft	\$3.12	\$94	\$218
T03VV	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	40	Ft	\$3.12	\$125	
T04VV	01	Long. & Trans. Cracking	High	Crack Seal - Wide Cracks	31	Ft	\$51.48	\$1,599	\$11,025
T04VV	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	73	Ft	\$3.12	\$228	
T04VV	01	Alligator Cracking	Low	Crack Sealing - AC	11	Ft	\$3.12	\$35	
T04VV	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	1,638	Ft	\$3.12	\$5,112	
T04VV	01	Alligator Cracking	Medium	Patching - AC Deep	52	SqFt	\$78.00	\$4,051	
TH34VV	01	Long. & Trans. Cracking	Medium	Crack Sealing - AC	20	Ft	\$3.12	\$62	\$465
TH34VV	01	Long. & Trans. Cracking	Low	Crack Sealing - AC	129	Ft	\$3.12	\$402	

Abbreviations:

Long. = Longitudinal; Trans. = Transverse; AC = Asphalt Concrete; Ft = Feet; SqFt = Square Feet



**Table 4D: FIVE-YEAR GLOBAL MAINTENANCE AND REHABILITATION PLAN**

Action Year	Branch ID	Section ID	Branch Use	Surface Type	Current PCI	Action	Area, square feet	Unit Cost per square foot	Total Cost
2024	R16VV	02	RUNWAY	AC	20	Reconstruction	11,200	\$17.32	\$193,983
	R16VV	03	RUNWAY	AC	53	Overlay	59,530	\$10.82	\$644,406
	R16VV	04	RUNWAY	AC	41	Reconstruction	7,200	\$17.32	\$124,703
	T01VV	01	TAXIWAY	AC	35	Reconstruction	740	\$17.32	\$12,817
2025	R16VV	01	RUNWAY	AC	68	Slurry Seal	32,480	\$0.52	\$16,889
	R16VV	05	RUNWAY	AC	70	Slurry Seal	10,560	\$0.52	\$5,491
	T02VV	01	TAXIWAY	AC	75	Slurry Seal	1,606	\$0.52	\$835
	T03VV	01	TAXIWAY	AC	71	Slurry Seal	1,790	\$0.52	\$931
	T04VV	01	TAXIWAY	AC	66	Slurry Seal	22,388	\$0.52	\$11,642
	TH34VV	01	TAXIWAY	AC	70	Slurry Seal	3,871	\$0.52	\$2,013
2026	T01VV	02	TAXIWAY	AC	64	Overlay	48,234	\$7.64	\$368,524
2027	A01VV	01	APRON	AC	31	Reconstruction	8,597	\$17.32	\$148,899

Abbreviations:

PCI = Pavement Condition Index, AC = Asphalt Concrete

Cost Summary	
2024 Total Project Cost	\$975,909
2025 Total Project Cost	\$37,801
2026 Total Project Cost	\$368,524
2027 Total Project Cost	\$148,899
2028 Total Project Cost	\$0
<b>Total 5-Year Project Cost</b>	<b>\$1,531,134</b>

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## **APPENDIX E**

### *Reinspection Report*

# Re-Inspection Report

ODA\_2023Survey\_11-21-23

Generated Date 12/5/2023

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<b>Network:</b>	Valley			<b>Name:</b>	Valley View				
<b>Branch:</b>	A01VV		<b>Name:</b>	Apron 01 Valley View		<b>Use:</b>	APRON	<b>Area:</b>	8,597 SqFt
<b>Section:</b>	01	of	1	<b>From:</b>	Taxiway 01		<b>To:</b>	Taxiway 04	
<b>Surface:</b>	AC	<b>Family:</b>	2023_Region1_Cat4_Apron_AC	<b>Zone:</b>	5S9		<b>Category:</b>	E	<b>Rank:</b> P
<b>Area:</b>	8,597 SqFt		<b>Length:</b>	134 Ft		<b>Width:</b>	64 Ft		
<b>Slabs:</b>	<b>Slab Length:</b>		Ft	<b>Slab Width:</b>		Ft	<b>Joint Length:</b>		Ft
<b>Shoulder:</b>	<b>Street Type:</b>			<b>Grade:</b>	0		<b>Lanes:</b>	0	

## Section Comments:

<b>Work Date:</b>	8/1/1979	<b>Work Type:</b>	Base Course - Aggregate	<b>Code:</b>	BA-AG	<b>Is Major M&amp;R:</b>	False
<b>Work Date:</b>	8/2/1979	<b>Work Type:</b>	New Construction - AC	<b>Code:</b>	NC-AC	<b>Is Major M&amp;R:</b>	True
<b>Work Date:</b>	8/1/1995	<b>Work Type:</b>	Crack Sealing - AC	<b>Code:</b>	CS-AC	<b>Is Major M&amp;R:</b>	False

**Last Insp. Date:** 7/1/2023 **TotalSamples:** 2 **Surveyed:** 2

**Conditions:** PCI: 31

## Inspection Comments:

<b>Sample Number:</b>	01	<b>Type:</b>	R	<b>Area:</b>	4800.00 SqFt	<b>PCI:</b>	37
<b>Sample Comments:</b>							
43	BLOCK CR	M	4800.00	SqFt			
52	RAVELING	L	2400.00	SqFt			
57	WEATHERING	M	2400.00	SqFt			

<b>Sample Number:</b>	02	<b>Type:</b>	R	<b>Area:</b>	3797.00 SqFt	<b>PCI:</b>	24
<b>Sample Comments:</b>							
41	ALLIGATOR CR	M	350.00	SqFt			
43	BLOCK CR	M	3447.00	SqFt			
57	WEATHERING	M	3797.00	SqFt			

Network:	Valley		Name:	Valley View							
Branch:	R16VV		Name:	RW 16/34 Valley View		Use:	RUNWAY	Area:	120,970 SqFt		
Section:	01	of 5	From:	Runway 34 End (South)			To:	Section 02		Last Const.:	8/2/1979
Surface:	AC	Family:	2023_Region1_Cat4_Runway_AC	Zone:	5S9		Category:	E		Rank:	P
Area:	32,480 SqFt		Length:	1,015 Ft		Width:	32 Ft				
Slabs:	Slab Length:		Ft		Slab Width:		Ft		Joint Length:		Ft
Shoulder:	Street Type:		Grade:		0		Lanes:		0		
Section Comments:											
Work Date:	8/1/1979		Work Type: Base Course - Aggregate				Code:	BA-AG		Is Major M&R:	False
Work Date:	8/2/1979		Work Type: New Construction - AC				Code:	NC-AC		Is Major M&R:	True
Work Date:	8/1/1995		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False
Work Date:	9/1/2013		Work Type: Patching - AC Deep				Code:	PA-AD		Is Major M&R:	False
Work Date:	9/2/2013		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False
Work Date:	9/3/2013		Work Type: Surface Treatment - Slurry Seal				Code:	ST-SS		Is Major M&R:	False
Work Date:	9/1/2016		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False
Last Insp. Date:	7/1/2023		TotalSamples:	7		Surveyed: 4					
Conditions:	PCI: 68										
Inspection Comments:											
Sample Number:	03		Type:	R		Area:	4800.00 SqFt		PCI:	65	
Sample Comments:											
48	L & T CR		L	65.00 Ft							
48	L & T CR		M	33.00 Ft							
50	PATCHING		L	64.00 SqFt							
57	WEATHERING		M	4800.00 SqFt							
Sample Number:	04		Type:	R		Area:	4800.00 SqFt		PCI:	70	
Sample Comments:											
48	L & T CR		L	180.00 Ft							
48	L & T CR		M	108.00 Ft							
57	WEATHERING		M	4800.00 SqFt							
Sample Number:	05		Type:	R		Area:	4800.00 SqFt		PCI:	67	
Sample Comments:											
48	L & T CR		L	137.00 Ft							
48	L & T CR		L	88.00 Ft							
48	L & T CR		M	140.00 Ft							
50	PATCHING		L	17.00 SqFt							
57	WEATHERING		M	4800.00 SqFt							
Sample Number:	06		Type:	R		Area:	4800.00 SqFt		PCI:	70	
Sample Comments:											
48	L & T CR		L	95.00 Ft							
48	L & T CR		L	159.00 Ft							
48	L & T CR		M	30.00 Ft							
48	L & T CR		M	30.00 Ft							
57	WEATHERING		M	4800.00 SqFt							

Network:	Valley			Name:	Valley View							
Branch:	R16VV		Name:	RW 16/34 Valley View		Use:	RUNWAY		Area:	120,970 SqFt		
Section:	04	of	5	From:	Section 03			To:	Section 05		Last Const.:	8/2/1979
Surface:	AC	Family:	2023_Region1_Cat4_Run way_AC		Zone:	5S9		Category:	E		Rank:	P
Area:	7,200 SqFt		Length:	225 Ft		Width:	32 Ft					
Slabs:			Slab Length:	Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:			Street Type:			Grade:	0		Lanes:	0		
Section Comments:												
Work Date:	8/1/1979		Work Type: Base Course - Aggregate				Code:	BA-AG		Is Major M&R: False		
Work Date:	8/2/1979		Work Type: New Construction - AC				Code:	NC-AC		Is Major M&R: True		
Work Date:	8/1/1995		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R: False		
Work Date:	9/1/2013		Work Type: Patching - AC Deep				Code:	PA-AD		Is Major M&R: False		
Work Date:	9/2/2013		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R: False		
Work Date:	9/3/2013		Work Type: Surface Treatment - Slurry Seal				Code:	ST-SS		Is Major M&R: False		
Work Date:	9/1/2016		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R: False		
Last Insp. Date:	7/1/2023		TotalSamples:	2		Surveyed: 2						
Conditions:	PCI: 41											
Inspection Comments:												
Sample Number:	01	Type:	R	Area:	4000.00 SqFt			PCI:	43			
Sample Comments:												
48	L & T CR		L	36.00 Ft								
48	L & T CR		L	166.00 Ft								
50	PATCHING		L	64.00 SqFt								
52	RAVELING		M	2000.00 SqFt								
57	WEATHERING		M	2000.00 SqFt								
Sample Number:	02	Type:	R	Area:	3200.00 SqFt			PCI:	39			
Sample Comments:												
48	L & T CR		L	194.00 Ft								
48	L & T CR		M	31.00 Ft								
50	PATCHING		L	32.00 SqFt								
52	RAVELING		M	1600.00 SqFt								
57	WEATHERING		M	1600.00 SqFt								

Network:	Valley			Name:	Valley View							
Branch:	R16VV		Name:	RW 16/34 Valley View		Use:	RUNWAY	Area:	120,970 SqFt			
Section:	03	of	5	From:	Section 01			To:	Section 04		Last Const.:	8/2/1979
Surface:	AC	Family:	2023_Region1_Cat4_Run way_AC	Zone:	5S9			Category:	E		Rank:	P
Area:	59,530 SqFt		Length:	2,210 Ft		Width:	32 Ft					
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:	Street Type:				Grade:	0		Lanes:	0			
Section Comments:												
Work Date:	8/1/1979			Work Type:	Base Course - Aggregate			Code:	BA-AG		Is Major M&R:	False
Work Date:	8/2/1979			Work Type:	New Construction - AC			Code:	NC-AC		Is Major M&R:	True
Work Date:	8/1/1995			Work Type:	Crack Sealing - AC			Code:	CS-AC		Is Major M&R:	False
Work Date:	9/1/2013			Work Type:	Patching - AC Deep			Code:	PA-AD		Is Major M&R:	False
Work Date:	9/2/2013			Work Type:	Crack Sealing - AC			Code:	CS-AC		Is Major M&R:	False
Work Date:	9/3/2013			Work Type:	Surface Treatment - Slurry Seal			Code:	ST-SS		Is Major M&R:	False
Work Date:	9/1/2016			Work Type:	Crack Sealing - AC			Code:	CS-AC		Is Major M&R:	False
Last Insp. Date:	7/1/2023			TotalSamples:	12			Surveyed:	5			
Conditions:	PCI: 53											
Inspection Comments:												
Sample Number:	01		Type:	R	Area:	4800.00 SqFt		PCI:	40			
Sample Comments:												
48	L & T CR		L	150.00 Ft								
50	PATCHING		L	15.00 SqFt								
52	RAVELING		M	4000.00 SqFt								
Sample Number:	04		Type:	R	Area:	4800.00 SqFt		PCI:	64			
Sample Comments:												
48	L & T CR		L	108.00 Ft								
48	L & T CR		M	75.00 Ft								
50	PATCHING		L	32.00 SqFt								
52	RAVELING		L	40.00 SqFt								
57	WEATHERING		M	4800.00 SqFt								
Sample Number:	07		Type:	R	Area:	4800.00 SqFt		PCI:	55			
Sample Comments:												
48	L & T CR		L	199.00 Ft								
48	L & T CR		M	30.00 Ft								
48	L & T CR		H	17.00 Ft								
50	PATCHING		L	64.00 SqFt								
52	RAVELING		M	40.00 SqFt								
57	WEATHERING		M	4800.00 SqFt								
Sample Number:	10		Type:	R	Area:	4800.00 SqFt		PCI:	38			
Sample Comments:												
48	L & T CR		L	200.00 Ft								
48	L & T CR		M	30.00 Ft								
50	PATCHING		L	96.00 SqFt								
52	RAVELING		M	2400.00 SqFt								
57	WEATHERING		M	2400.00 SqFt								
Sample Number:	12		Type:	R	Area:	4800.00 SqFt		PCI:	65			
Sample Comments:												
48	L & T CR		L	186.00 Ft								
50	PATCHING		L	64.00 SqFt								
52	RAVELING		M	40.00 SqFt								
57	WEATHERING		M	4800.00 SqFt								

<b>Network:</b>	Valley		<b>Name:</b>	Valley View						
<b>Branch:</b>	R16VV		<b>Name:</b>	RW 16/34 Valley View		<b>Use:</b> RUNWAY	<b>Area:</b>	120,970 SqFt		
<b>Section:</b>	05 of 5		<b>From:</b>	Section 04		<b>To:</b>	Runway 16 End (North)		<b>Last Const.:</b> 8/2/1979	
<b>Surface:</b>	AC		<b>Family:</b>	2023_Region1_Cat4_Runway_AC		<b>Zone:</b>	5S9		<b>Category:</b> E	<b>Rank:</b> P
<b>Area:</b>	10,560 SqFt		<b>Length:</b>	330 Ft		<b>Width:</b>	32 Ft			
<b>Slabs:</b>			<b>Slab Length:</b>	Ft		<b>Slab Width:</b>	Ft		<b>Joint Length:</b>	Ft
<b>Shoulder:</b>			<b>Street Type:</b>			<b>Grade:</b>	0		<b>Lanes:</b>	0
<b>Section Comments:</b>										
<b>Work Date:</b>	8/1/1979		<b>Work Type:</b> Base Course - Aggregate				<b>Code:</b>	BA-AG		<b>Is Major M&amp;R:</b> False
<b>Work Date:</b>	8/2/1979		<b>Work Type:</b> New Construction - AC				<b>Code:</b>	NC-AC		<b>Is Major M&amp;R:</b> True
<b>Work Date:</b>	8/1/1995		<b>Work Type:</b> Crack Sealing - AC				<b>Code:</b>	CS-AC		<b>Is Major M&amp;R:</b> False
<b>Work Date:</b>	9/1/2013		<b>Work Type:</b> Patching - AC Deep				<b>Code:</b>	PA-AD		<b>Is Major M&amp;R:</b> False
<b>Work Date:</b>	9/2/2013		<b>Work Type:</b> Crack Sealing - AC				<b>Code:</b>	CS-AC		<b>Is Major M&amp;R:</b> False
<b>Work Date:</b>	9/3/2013		<b>Work Type:</b> Surface Treatment - Slurry Seal				<b>Code:</b>	ST-SS		<b>Is Major M&amp;R:</b> False
<b>Work Date:</b>	9/1/2016		<b>Work Type:</b> Crack Sealing - AC				<b>Code:</b>	CS-AC		<b>Is Major M&amp;R:</b> False
<b>Last Insp. Date:</b>	7/1/2023		<b>TotalSamples:</b>	2		<b>Surveyed:</b>	2			
<b>Conditions:</b>	<b>PCI:</b> 70									
<b>Inspection Comments:</b>										
<b>Sample Number:</b>	01		<b>Type:</b>	R		<b>Area:</b>	4800.00 SqFt		<b>PCI:</b>	70
<b>Sample Comments:</b>										
48	L & T CR		L	292.00 Ft						
48	L & T CR		M	27.00 Ft						
57	WEATHERING		M	4800.00 SqFt						
<b>Sample Number:</b>	02		<b>Type:</b>	R		<b>Area:</b>	5760.00 SqFt		<b>PCI:</b>	71
<b>Sample Comments:</b>										
48	L & T CR		L	230.00 Ft						
48	L & T CR		L	118.00 Ft						
48	L & T CR		M	58.00 Ft						
50	PATCHING		L	30.00 SqFt						
57	WEATHERING		L	5760.00 SqFt						

Network:	Valley		Name:	Valley View							
Branch:	R16VV		Name:	RW 16/34 Valley View		Use:	RUNWAY	Area:	120,970 SqFt		
Section:	02 of 5		From:	Section 01			To:	Section 03		Last Const.:	8/2/1979
Surface:	AC		Family:	2023_Region1_Cat4_Run way_AC		Zone:	5S9		Category:	E Rank: P	
Area:	11,200 SqFt		Length:	700 Ft		Width:	16 Ft				
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft		
Shoulder:	Street Type:		Grade:		0		Lanes:	0			
Section Comments:											
Work Date:	8/1/1979		Work Type: Base Course - Aggregate				Code:	BA-AG		Is Major M&R:	False
Work Date:	8/2/1979		Work Type: New Construction - AC				Code:	NC-AC		Is Major M&R:	True
Work Date:	8/1/1990		Work Type: Surface Treatment - Seal Coat (Global MR)				Code:	ST-SC		Is Major M&R:	False
Work Date:	8/1/1995		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False
Work Date:	9/1/2013		Work Type: Patching - AC Deep				Code:	PA-AD		Is Major M&R:	False
Work Date:	9/2/2013		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False
Work Date:	9/3/2013		Work Type: Surface Treatment - Slurry Seal				Code:	ST-SS		Is Major M&R:	False
Work Date:	9/1/2016		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False
Last Insp. Date:	7/1/2023		TotalSamples:	3		Surveyed:	2				
Conditions:	PCI: 20										
Inspection Comments:											
Sample Number:	01		Type:	R		Area:	4800.00 SqFt		PCI:	21	
Sample Comments:											
48	L & T CR		L	99.00 Ft							
48	L & T CR		L	182.00 Ft							
48	L & T CR		L	194.00 Ft							
48	L & T CR		M	16.00 Ft							
50	PATCHING		L	48.00 SqFt							
50	PATCHING		L	15.00 SqFt							
52	RAVELING		H	4000.00 SqFt							
Sample Number:	02		Type:	R		Area:	6400.00 SqFt		PCI:	20	
Sample Comments:											
48	L & T CR		L	433.00 Ft							
48	L & T CR		L	315.00 Ft							
48	L & T CR		M	95.00 Ft							
50	PATCHING		L	45.00 SqFt							
50	PATCHING		L	32.00 SqFt							
50	PATCHING		L	15.00 SqFt							
52	RAVELING		M	3200.00 SqFt							
52	RAVELING		H	3200.00 SqFt							



Network:	Valley		Name:	Valley View								
Branch:	T01VV		Name:	Taxiway 01 Valley View		Use:	TAXIWAY	Area:	48,974 SqFt			
Section:	02	of 2	From:	Section 01			To:	Runway 16 End (North)		Last Const.:	8/2/1979	
Surface:	AC	Family:	2023_Region1_Cat4_Taxiway_AC		Zone:	5S9		Category:	E		Rank:	P
Area:	48,234 SqFt		Length:	2,837 Ft		Width:	16 Ft					
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:	Street Type:				Grade:	0		Lanes:	0			
Section Comments:												
Work Date:	8/1/1979		Work Type: Base Course - Aggregate				Code:	BA-AG		Is Major M&R:	False	
Work Date:	8/2/1979		Work Type: New Construction - AC				Code:	NC-AC		Is Major M&R:	True	
Work Date:	8/1/1995		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False	
Work Date:	9/1/2016		Work Type: Patching - AC Deep				Code:	PA-AD		Is Major M&R:	False	
Work Date:	9/2/2016		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False	
Last Insp. Date:	7/1/2023		TotalSamples:	10		Surveyed:	5					
Conditions:	PCI: 64											
Inspection Comments:												
Sample Number:	01		Type:	R		Area:	4800.00 SqFt		PCI:	39		
Sample Comments:												
41	ALLIGATOR CR		M	142.00 SqFt								
48	L & T CR		L	380.00 Ft								
48	L & T CR		M	34.00 Ft								
52	RAVELING		M	75.00 SqFt								
57	WEATHERING		M	4800.00 SqFt								
Sample Number:	04		Type:	R		Area:	4800.00 SqFt		PCI:	70		
Sample Comments:												
48	L & T CR		L	142.00 Ft								
48	L & T CR		L	148.00 Ft								
48	L & T CR		M	15.00 Ft								
57	WEATHERING		M	4800.00 SqFt								
Sample Number:	07		Type:	R		Area:	4800.00 SqFt		PCI:	75		
Sample Comments:												
48	L & T CR		L	352.00 Ft								
57	WEATHERING		M	4800.00 SqFt								
Sample Number:	08		Type:	R		Area:	4800.00 SqFt		PCI:	66		
Sample Comments:												
48	L & T CR		L	110.00 Ft								
48	L & T CR		L	391.00 Ft								
50	PATCHING		L	99.00 SqFt								
57	WEATHERING		M	4800.00 SqFt								
Sample Number:	10		Type:	R		Area:	4905.00 SqFt		PCI:	70		
Sample Comments:												
48	L & T CR		L	173.00 Ft								
48	L & T CR		M	20.00 Ft								
57	WEATHERING		M	4905.00 SqFt								

Network:	Valley		Name:	Valley View								
Branch:	T01VV		Name:	Taxiway 01 Valley View		Use:	TAXIWAY	Area:	48,974 SqFt			
Section:	01	of 2	From:	Runway 16/34			To:	Section 02		Last Const.:	8/2/1979	
Surface:	AC	Family:	2023_Region1_Cat4_Taxi way_AC		Zone:	5S9		Category:	E		Rank:	P
Area:	740 SqFt		Length:	50 Ft		Width:	15 Ft					
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:	Street Type:				Grade:	0		Lanes:	0			
Section Comments:												
Work Date:	8/1/1979		Work Type: Base Course - Aggregate				Code:	BA-AG		Is Major M&R:	False	
Work Date:	8/2/1979		Work Type: New Construction - AC				Code:	NC-AC		Is Major M&R:	True	
Work Date:	8/1/1995		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False	
Work Date:	9/1/2013		Work Type: Patching - AC Deep				Code:	PA-AD		Is Major M&R:	False	
Work Date:	9/2/2013		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False	
Work Date:	9/3/2013		Work Type: Surface Treatment - Slurry Seal				Code:	ST-SS		Is Major M&R:	False	
Last Insp. Date:	7/1/2023		TotalSamples:	1		Surveyed:	1					
Conditions:	PCI: 35											
Inspection Comments:												
Sample Number:	01	Type:	R	Area:	740.00 SqFt		PCI:	35				
Sample Comments:												
48	L & T CR		L	41.00 Ft								
50	PATCHING		L	6.00 SqFt								
52	RAVELING		M	740.00 SqFt								

Network:	Valley		Name:	Valley View								
Branch:	T02VV		Name:	Taxiway 02 Valley View		Use:	TAXIWAY	Area:	1,606 SqFt			
Section:	01	of 1	From:	Runway 16/34			To:	Taxiway 01		Last Const.:	8/2/1979	
Surface:	AC	Family:	2023_Region1_Cat4_Taxi way_AC		Zone:	5S9		Category:	E		Rank:	P
Area:	1,606 SqFt		Length:	95 Ft		Width:	16 Ft					
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft			
Shoulder:	Street Type:				Grade:	0		Lanes:	0			
Section Comments:												
Work Date:	8/1/1979		Work Type: Base Course - Aggregate				Code:	BA-AG		Is Major M&R:	False	
Work Date:	8/2/1979		Work Type: New Construction - AC				Code:	NC-AC		Is Major M&R:	True	
Work Date:	8/1/1995		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False	
Work Date:	9/1/2016		Work Type: Crack Sealing - AC				Code:	CS-AC		Is Major M&R:	False	
Work Date:	9/2/2016		Work Type: Crack Seal - Wide Cracks				Code:	CS-WD		Is Major M&R:	False	
Last Insp. Date:	7/1/2023		TotalSamples:	1		Surveyed:	1					
Conditions:	PCI: 75											
Inspection Comments:												
Sample Number:	01	Type:	R	Area:	1606.00 SqFt		PCI:	75				
Sample Comments:												
48	L & T CR		L	15.00 Ft								
48	L & T CR		M	15.00 Ft								
50	PATCHING		L	30.00 SqFt								
57	WEATHERING		L	1606.00 SqFt								

Network:	Valley			Name:	Valley View							
Branch:	T03VV		Name:	Taxiway 03 Valley View		Use:	TAXIWAY	Area:	1,790 SqFt			
Section:	01	of	1	From:	Runway 16/34			To:	Taxiway 01	Last Const.:	8/2/1979	
Surface:	AC	Family:	2023_Region1_Cat4_Taxi way_AC		Zone:	5S9		Category:	E	Rank:	P	
Area:	1,790 SqFt		Length:	95 Ft		Width:	16 Ft					
Slabs:	Slab Length:			Ft	Slab Width:	Ft		Joint Length:	Ft			
Shoulder:	Street Type:			Grade:	0		Lanes:	0				
Section Comments:												
Work Date:	8/1/1979			Work Type:	Base Course - Aggregate			Code:	BA-AG		Is Major M&R:	False
Work Date:	8/2/1979			Work Type:	New Construction - AC			Code:	NC-AC		Is Major M&R:	True
Work Date:	8/1/1995			Work Type:	Crack Sealing - AC			Code:	CS-AC		Is Major M&R:	False
Work Date:	9/1/2016			Work Type:	Crack Sealing - AC			Code:	CS-AC		Is Major M&R:	False
Work Date:	9/2/2016			Work Type:	Crack Seal - Wide Cracks			Code:	CS-WD		Is Major M&R:	False
Last Insp. Date:	7/1/2023			TotalSamples:	1		Surveyed:	1				
Conditions:	PCI: 71											
Inspection Comments:												
Sample Number:	01	Type:	R	Area:	1790.00 SqFt		PCI:	71				
Sample Comments:												
48	L & T CR		L	30.00 Ft								
48	L & T CR		M	40.00 Ft								
50	PATCHING		L	12.00 SqFt								
57	WEATHERING		L	1790.00 SqFt								

Network:	Valley		Name:	Valley View									
Branch:	T04VV		Name:	Taxiway 04 Valley View		Use:	TAXIWAY	Area:	22,388 SqFt				
Section:	01	of 1	From:	Taxiway 01			To:	Hangars		Last Const.:	8/2/1979		
Surface:	AC	Family:	2023_Region1_Cat4_Taxiway_AC		Zone:	5S9		Category:	E		Rank:	S	
Area:	22,388 SqFt		Length:	1,135 Ft		Width:	16 Ft						
Slabs:	Slab Length:		Ft		Slab Width:	Ft		Joint Length:	Ft				
Shoulder:	Street Type:		Grade:		0		Lanes:	0					
Section Comments:													
Work Date:	8/1/1979		Work Type:				Base Course - Aggregate		Code:	BA-AG		Is Major M&R:	False
Work Date:	8/2/1979		Work Type:				New Construction - AC		Code:	NC-AC		Is Major M&R:	True
Work Date:	8/1/1995		Work Type:				Crack Sealing - AC		Code:	CS-AC		Is Major M&R:	False
Work Date:	9/1/2016		Work Type:				Crack Sealing - AC		Code:	CS-AC		Is Major M&R:	False
Work Date:	9/2/2016		Work Type:				Crack Seal - Wide Cracks		Code:	CS-WD		Is Major M&R:	False
Last Insp. Date:	7/1/2023		TotalSamples:	4		Surveyed:	3						
Conditions:	PCI: 66												
Inspection Comments:													
Sample Number:	01	Type:	R	Area:	3412.00 SqFt		PCI:	70					
Sample Comments:													
48	L & T CR	L	168.00 Ft										
48	L & T CR	M	14.00 Ft										
48	L & T CR	M	20.00 Ft										
50	PATCHING	L	60.00 SqFt										
57	WEATHERING	L	3412.00 SqFt										
Sample Number:	02	Type:	R	Area:	6550.00 SqFt		PCI:	58					
Sample Comments:													
41	ALLIGATOR CR	L	12.00 SqFt										
41	ALLIGATOR CR	M	20.00 SqFt										
48	L & T CR	L	425.00 Ft										
48	L & T CR	M	20.00 Ft										
48	L & T CR	H	23.00 Ft										
50	PATCHING	L	55.00 SqFt										
57	WEATHERING	M	6550.00 SqFt										
Sample Number:	04	Type:	R	Area:	6611.00 SqFt		PCI:	73					
Sample Comments:													
48	L & T CR	L	620.00 Ft										
57	WEATHERING	M	6611.00 SqFt										

Network:	Valley	Name:	Valley View						
Branch:	TH34VV	Name:	TW R34 Hold Valley View	Use:	TAXIWAY	Area:	3,871 SqFt		
Section:	01	of	1	From:	Runway 34 End (South)	To:	Last Const.:	8/2/1979	
Surface:	AC	Family:	2023_Region1_Cat4_Taxi way_AC	Zone:	5S9	Category:	E	Rank:	P
Area:	3,871 SqFt	Length:	205 Ft	Width:	18 Ft				
Slabs:	Slab Length:	Ft	Slab Width:	Ft	Joint Length:	Ft			
Shoulder:	Street Type:	Grade:	0	Lanes:	0				
Section Comments:									
Work Date:	8/1/1979	Work Type:	Base Course - Aggregate	Code:	BA-AG	Is Major M&R:	False		
Work Date:	8/2/1979	Work Type:	New Construction - AC	Code:	NC-AC	Is Major M&R:	True		
Work Date:	8/1/1995	Work Type:	Crack Sealing - AC	Code:	CS-AC	Is Major M&R:	False		
Work Date:	9/1/2013	Work Type:	Patching - AC Deep	Code:	PA-AD	Is Major M&R:	False		
Work Date:	9/2/2013	Work Type:	Crack Sealing - AC	Code:	CS-AC	Is Major M&R:	False		
Work Date:	9/3/2013	Work Type:	Surface Treatment - Slurry Seal	Code:	ST-SS	Is Major M&R:	False		
Work Date:	9/1/2016	Work Type:	Crack Sealing - AC	Code:	CS-AC	Is Major M&R:	False		
Last Insp. Date:	7/1/2023	TotalSamples:	1	Surveyed:	1				
Conditions:	PCI: 70								
Inspection Comments:									
Sample Number:	01	Type:	R	Area:	3871.00 SqFt	PCI:	70		
Sample Comments:									
48	L & T CR	L	129.00 Ft						
48	L & T CR	M	20.00 Ft						
57	WEATHERING	M	3871.00 SqFt						

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## **APPENDIX F**

### *Work History Report*

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## Work History Report

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Pavement Database: ODA\_2023Survey\_MASTER DB-12-12-2023-3pm

Network: Valley View		Branch: A01VV	Apron 01 Valley V	Section: 01	Surface: AC	
L.C.D. 8/2/1979	Use: APRON	Rank: P	Length: 134.00 (Ft)	Width: 64.00 (Ft)	True Area:	8597 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	UNKNOWN DATE
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	Depth unknown, mix 2
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>	

Network: Valley View		Branch: R16VV	RW 16/34 Valley	Section: 01	Surface: AC	
L.C.D. 8/2/1979	Use: RUNWAY	Rank: P	Length: 1,015.00 (Ft)	Width: 32.00 (Ft)	True Area:	32480 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	,
9/3/2013	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/>	Assumed date
9/2/2013	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	Assumed date
9/1/2013	PA-AD	Patching - AC Deep	0.00	0.00	<input type="checkbox"/>	Assumed date
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	UNKNOWN DATE
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	Depth unknown, mix 2
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>	

Network: Valley View		Branch: R16VV	RW 16/34 Valley	Section: 02	Surface: AC	
L.C.D. 8/2/1979	Use: RUNWAY	Rank: P	Length: 700.00 (Ft)	Width: 16.00 (Ft)	True Area:	11200 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	,
9/3/2013	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/>	Assumed date
9/2/2013	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	Assumed date
9/1/2013	PA-AD	Patching - AC Deep	0.00	0.00	<input type="checkbox"/>	Assumed date
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	UNKNOWN DATE
8/1/1990	ST-SC	Surface Treatment - Seal Coat (Global MR)	0.00	0.10	<input type="checkbox"/>	fog seal? assumed date
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	depth unknown, mix 1
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>	

Network: Valley View		Branch: R16VV	RW 16/34 Valley	Section: 03	Surface: AC	
L.C.D. 8/2/1979	Use: RUNWAY	Rank: P	Length: 2,210.00 (Ft)	Width: 32.00 (Ft)	True Area:	59530 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	,
9/3/2013	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/>	Assumed date
9/2/2013	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	Assumed date
9/1/2013	PA-AD	Patching - AC Deep	0.00	0.00	<input type="checkbox"/>	Assumed date
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	UNKNOWN DATE
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	depth unknown, mix 1
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>	



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Pavement Database: ODA\_2023Survey\_MASTER DB-12-12-2023-3pm

Network: Valley View		Branch: R16VV		RW 16/34 Valley		Section: 04	Surface: AC
L.C.D. 8/2/1979	Use: RUNWAY	Rank: P	Length: 225.00 (Ft)	Width: 32.00 (Ft)	True Area: 7200 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>		
9/3/2013	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/>	Assumed date	
9/2/2013	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	Assumed date	
9/1/2013	PA-AD	Patching - AC Deep	0.00	0.00	<input type="checkbox"/>	Assumed date	
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	UNKNOWN DATE	
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	depth unknown, mix 1	
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>		

Network: Valley View		Branch: R16VV		RW 16/34 Valley		Section: 05	Surface: AC
L.C.D. 8/2/1979	Use: RUNWAY	Rank: P	Length: 330.00 (Ft)	Width: 32.00 (Ft)	True Area: 10560 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>		
9/3/2013	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/>	Assumed date	
9/2/2013	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	Assumed date	
9/1/2013	PA-AD	Patching - AC Deep	0.00	0.00	<input type="checkbox"/>	Assumed date	
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	UNKNOWN DATE	
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	depth unknown, mix 2	
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>		

Network: Valley View		Branch: T01VV		Taxiway 01 Valley		Section: 01	Surface: AC
L.C.D. 8/2/1979	Use: TAXIWAY	Rank: P	Length: 50.00 (Ft)	Width: 15.00 (Ft)	True Area: 740 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
9/3/2013	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/>	Assumed date	
9/2/2013	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	Assumed date	
9/1/2013	PA-AD	Patching - AC Deep	0.00	0.00	<input type="checkbox"/>	Assumed date	
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	UNKNOWN DATE	
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	depth unknown, mix 1	
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>		

Network: Valley View		Branch: T01VV		Taxiway 01 Valley		Section: 02	Surface: AC
L.C.D. 8/2/1979	Use: TAXIWAY	Rank: P	Length: 2,837.00 (Ft)	Width: 16.00 (Ft)	True Area: 48234 (SqFt)		
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
9/2/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>		
9/1/2016	PA-AD	Patching - AC Deep	0.00	0.00	<input type="checkbox"/>		
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	UNKNOWN DATE	
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	Depth unknown, mix 2	
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>		

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Pavement Database: ODA\_2023Survey\_MASTER DB-12-12-2023-3pm

Network: Valley View		Branch: T02VV	Taxiway 02 Valley	Section: 01	Surface: AC	
L.C.D. 8/2/1979	Use: TAXIWAY	Rank: P	Length: 95.00 (Ft)	Width: 16.00 (Ft)	True Area:	1606 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/2/2016	CS-WD	Crack Seal - Wide Cracks	0.00	0.00	<input type="checkbox"/>	UNKNOWN DATE Depth unknown, mix 2
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>	

Network: Valley View		Branch: T03VV	Taxiway 03 Valley	Section: 01	Surface: AC	
L.C.D. 8/2/1979	Use: TAXIWAY	Rank: P	Length: 95.00 (Ft)	Width: 16.00 (Ft)	True Area:	1790 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/2/2016	CS-WD	Crack Seal - Wide Cracks	0.00	0.00	<input type="checkbox"/>	UNKNOWN DATE Depth unknown, mix 2
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>	

Network: Valley View		Branch: T04VV	Taxiway 04 Valley	Section: 01	Surface: AC	
L.C.D. 8/2/1979	Use: TAXIWAY	Rank: S	Length: 1,135.00 (Ft)	Width: 16.00 (Ft)	True Area:	22388 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/2/2016	CS-WD	Crack Seal - Wide Cracks	0.00	0.00	<input type="checkbox"/>	UNKNOWN DATE Depth unknown, mix 2
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>	

Network: Valley View		Branch: TH34VV	TW R34 Hold Vall	Section: 01	Surface: AC	
L.C.D. 8/2/1979	Use: TAXIWAY	Rank: P	Length: 205.00 (Ft)	Width: 18.00 (Ft)	True Area:	3871 (SqFt)
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2016	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	Assumed date Assumed date Assumed date UNKNOWN DATE depth unknown, mix 2
9/3/2013	ST-SS	Surface Treatment - Slurry Seal	0.00	0.00	<input type="checkbox"/>	
9/2/2013	CS-AC	Crack Sealing - AC	0.00	0.00	<input type="checkbox"/>	
9/1/2013	PA-AD	Patching - AC Deep	0.00	0.00	<input type="checkbox"/>	
8/1/1995	CS-AC	Crack Sealing - AC	0.00	0.10	<input type="checkbox"/>	
8/2/1979	NC-AC	New Construction - AC	0.00	0.00	<input checked="" type="checkbox"/>	
8/1/1979	BA-AG	Base Course - Aggregate	0.00	0.00	<input type="checkbox"/>	

**Summary:**

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Base Course - Aggregate	12	208,196.01	0.00	0.00
Crack Seal - Wide Cracks	3	25,784.00	0.00	0.00
Crack Sealing - AC	29	532,636.01	0.04	0.05
New Construction - AC	12	208,196.01	0.00	0.00
Patching - AC Deep	8	173,815.00	0.00	0.00
Surface Treatment - Seal Coat (Global MR)	1	11,200.00	0.10	0.00
Surface Treatment - Slurry Seal	7	125,581.00	0.00	0.00